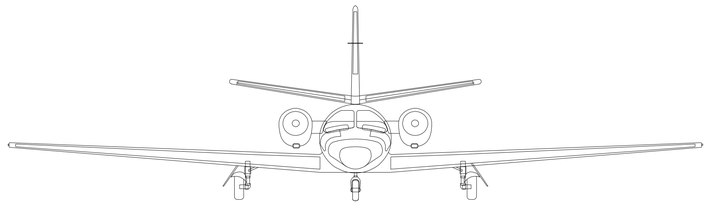
CONSTRUCTION PLANS
FOR
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
STATE OF TENNESSEE AIRPORTS

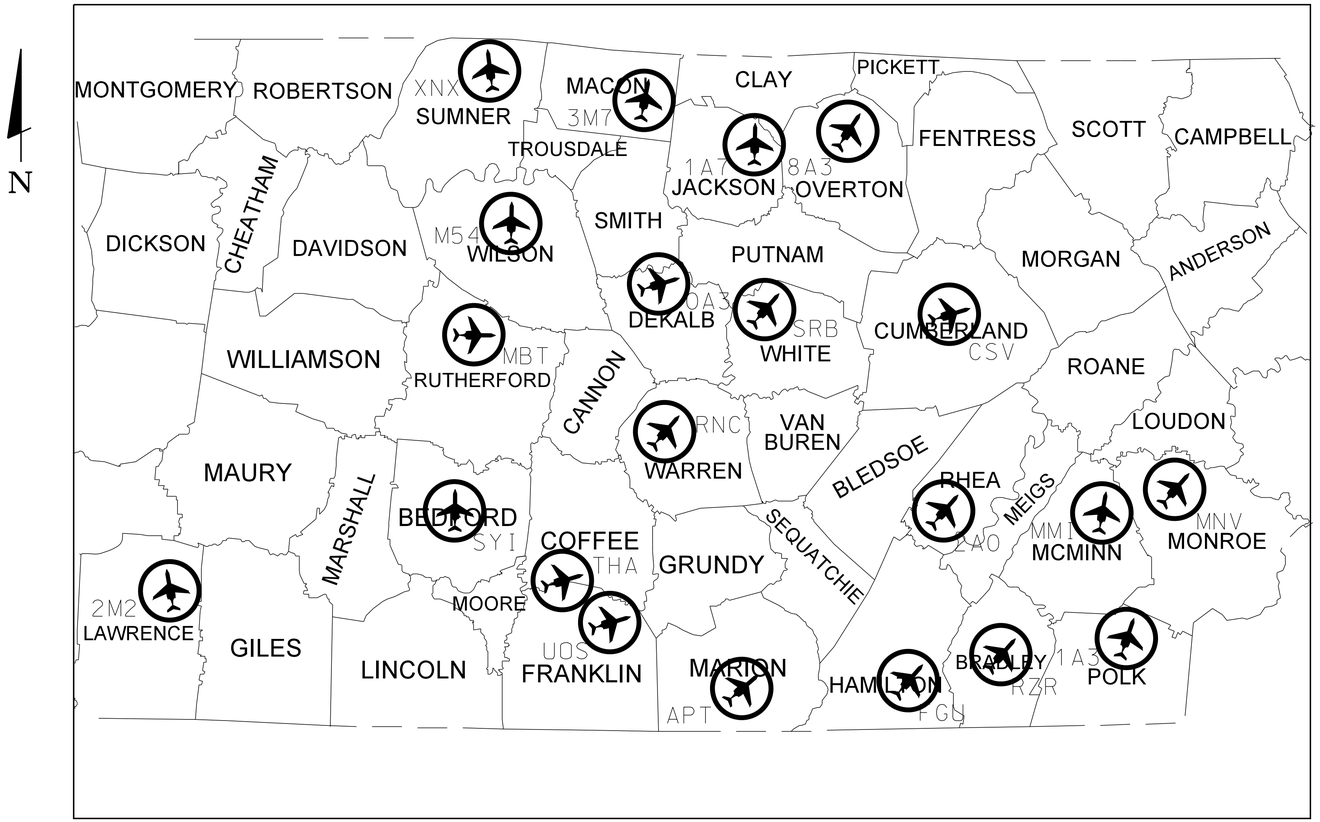
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TAD No. 99-555-1303-19

TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT)

JOSEPH GALBATO, III, INTERIM COMMISSIONER
JAY NORRIS, INTERIM AERONAUTICS DIRECTOR
JOHN-PAUL SAALWAECHTER, CHIEF ENGINEER





LOCATION MAP

NOT TO SCALE

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ISSUED FOR BID

BARGE DESIGN SOLUTIONS



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CONSTRUCTION PLANS
FOR THE
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
STATE OF TENNESSEE AIRPORTS

FEB 11, 2022
PROJECT No.
36821-05

C0.01

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GENERAL NOTES

1. THE CONTRACTOR MUST SCHEDULE OPERATIONS IN ORDER TO COMPLETE CONSTRUCTION IN THE OVERALL TIME LIMIT SPECIFIED. CONTRACTOR IS TO PREPARE A CONSTRUCTION SCHEDULE TO INCLUDE THE PROPOSED SEQUENCE OF CONSTRUCTION, AND BRING THE SCHEDULE TO THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL.

2. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY AGC OF AMERICA, INC. AND THE "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" ISSUED BY THE UNITED STATES DEPARTMENT OF LABOR.

3. THE LOCATIONS OF UTILITIES (INCLUSIVE OF STORM DRAINS) SHOWN WITHIN THESE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL TENNESSEE ONE CALL AT 1-800-351-1111 (OR 811).

4. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS.

5. PROPOSED HAUL ROUTES AND STOCKPILE AREAS SHALL BE APPROVED BY THE ENGINEER AND THE OWNER PRIOR TO START OF WORK AT EACH SITE. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE PROJECT WORK AREA PER DESIGNATED HAUL ROUTES.

6. CONTRACTOR SHALL REVIEW PROJECT CONSTRUCTION SAFETY PLAN AND BE FAMILIAR WITH ALL AIRPORT OPERATIONAL SAFETY AREAS. NO EQUIPMENT SHALL BE LEFT IN THE RUNWAY/TAXIWAY SAFETY AREAS, AND LIGHTED BARRICADES SHALL BE PROVIDED AS REQUIRED.

7. GENERAL CONTRACTOR SHALL HAVE AN AUTHORIZED JOB SUPERINTENDENT ON SITE WHENEVER WORK IS BEING PERFORMED BY ANY TRADE.

8. IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ENGINEER IN WRITING BEFORE PROCEEDING WITH THE WORK. IF ENGINEER IS NOT NOTIFIED, THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE COST OF ANY REVISIONS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILIZATION OF AND THE MAINTENANCE OF ALL ACCESS AND HAUL ROUTES. ALL ACCESS AND HAUL ROUTES SHALL BE RETURNED TO THEIR ORIGINAL CONDITION, OR LEFT AS DESIRED BY THE OWNER, PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY EXISTING PAVEMENTS, ON OR OFF THE AIRPORT PROPERTY, WHICH BECOME DAMAGED BY CONSTRUCTION TRAFFIC.

11. THESE NOTES ARE INTENDED TO SUPPLEMENT PROJECT SPECIFICATIONS AND IN NO WAY INVALIDATE SPECIFICATIONS PROVIDED IN OTHER BID DOCUMENTS (GENERAL OR SPECIFIC REQUIREMENTS).

12. SURPLUS MATERIAL NOT RETAINED BY THE AIRPORT AND NOT REQUIRED FOR SITE CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

13. COORDINATE ALL WORK WITH THE AIRPORT MANAGER AT LEAST 48 HOURS IN ADVANCE OF THE START OF SCHEDULED WORK.

14. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIRED PERMITS INCLUDING, BUT NOT LIMITED TO, NPDES PERMITS. ALL EROSION CONTROL REPORTING AND COMPLIANCE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO THE OWNER.

16. THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS A MINIMUM OF 48 HOURS IN ADVANCE EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER.

17. A COMPLETE SET OF AS-BUILT DRAWINGS WILL BE REQUIRED AT THE COMPLETION OF THIS PROJECT.

18. ANY ITEM OR ELEMENT OF WORK THAT DOES NOT HAVE A SPECIFIC PAY ITEM (SUCH AS BARRICADES, RADIOS, RESTORATION OF HAUL ROUTES, ETC.) SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE.

19. NO FIELD CHANGES OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER AND THE OWNER.

20. ALL EXISTING STRUCTURES SHALL BE PROTECTED FROM SEALCOAT OVERSPRAY. ANY DAMAGE DONE TO AN EXISTING AIRPORT STRUCTURE SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.

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JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

GENERAL NOTES

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TENNESSEE AIRPORTS
STATE OF TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

C0.02

FILE NO. 36821-05

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SCHEDULE OF QUANTITIES - BOMAR FIELD - SHELBYVILLE MUNICIPAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	9,938	LF
P-101-5.2	CRACK REPAIR (TYPE II)	657	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	74,920	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	128,120	SY
P-620-5.1	TEMPORARY WHITE PAINT	32,730	SF
P-620-5.2	TEMPORARY YELLOW PAINT	9,160	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	32,730	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	9,160	SF

SCHEDULE OF QUANTITIES - CLEVELAND REGIONAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	5,500	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	98,560	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	15,195	SY
P-620-5.1	TEMPORARY WHITE PAINT	32,525	SF
P-620-5.2	TEMPORARY YELLOW PAINT	8,530	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	32,525	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	8,530	SF
P-620-5.5	BLACK PAINT	20,310	SF

SCHEDULE OF QUANTITIES - COLLEGEDALE MUNICIPAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	21,800	LF
P-101-5.2	CRACK REPAIR (TYPE II)	21,250	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	58,200	SF
P-101-5.4	CRACK REPAIR (TYPE III)	375	LF
P-605-5.1	JOINT SEALING FILLER	2,300	SY
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	51,420	SY
P-620-5.1	TEMPORARY WHITE PAINT	26,630	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,455	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	26,630	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,455	SF

SCHEDULE OF QUANTITIES - CROSSVILLE MEMORIAL AIRPORT - WHITSON FIELD

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	71,236	LF
P-101-5.2	CRACK REPAIR (TYPE II)	27,411	LF

SCHEDULE OF QUANTITIES - FRANKLIN COUNTY AIRPORT - SEWANEE

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	7,750	LF
P-101-5.2	CRACK REPAIR (TYPE II)	13,100	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	27,900	SF
P-101-5.4	CRACK REPAIR (TYPE III)	2,625	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	32,735	SY
P-620-5.1	TEMPORARY WHITE PAINT	12,715	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,450	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	12,715	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,450	SF

SCHEDULE OF QUANTITIES - JACKSON COUNTY AIRPORT - GAINESBORO

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	5,232	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	36,330	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	44,175	SY
P-620-5.1	TEMPORARY WHITE PAINT	15,475	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,580	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	15,475	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,580	SF

SCHEDULE OF QUANTITIES - LAFAYETTE MUNICIPAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	2,875	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	1,790	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	16,705	SY
P-620-5.2	TEMPORARY YELLOW PAINT	1,790	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,790	SF

SCHEDULE OF QUANTITIES - LAWRENCEBURG-LAWRENCE COUNTY AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	75,623	LF
P-101-5.2	CRACK REPAIR (TYPE II)	11,190	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	68,810	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	102,220	SY
P-620-5.1	TEMPORARY WHITE PAINT	31,930	SF
P-620-5.2	TEMPORARY YELLOW PAINT	6,030	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	31,930	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	6,030	SF

SCHEDULE OF QUANTITIES - LEBANON MUNICIPAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	46,377	LF
P-101-5.2	CRACK REPAIR (TYPE II)	1,888	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	68,795	SF
P-605-5.1	JOINT SEALING FILLER	125	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	131,200	SY
P-620-5.1	TEMPORARY WHITE PAINT	35,545	SF
P-620-5.2	TEMPORARY YELLOW PAINT	5,430	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	35,545	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	5,430	SF

SCHEDULE OF QUANTITIES - LIVINGSTON MUNICIPAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	29,848	LF
P-101-5.2	CRACK REPAIR (TYPE II)	7,269	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	47,130	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	71,410	SY
P-620-5.1	TEMPORARY WHITE PAINT	26,605	SF
P-620-5.2	TEMPORARY YELLOW PAINT	2,740	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	26,605	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	2,740	SF

SCHEDULE OF QUANTITIES - MARION COUNTY AIRPORT - BROWN FIELD

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	5,776	LF
P-101-5.2	CRACK REPAIR (TYPE II)	750	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	1,415	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	22,805	SY
P-620-5.2	TEMPORARY YELLOW PAINT	1,415	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,415	SF

SCHEDULE OF QUANTITIES - MARK ANTON AIRPORT - DAYTON

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	202,550	LF
P-101-5.2	CRACK REPAIR (TYPE II)	1,808	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	66,580	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	86,345	SY
P-620-5.1	TEMPORARY WHITE PAINT	31,385	SF
P-620-5.2	TEMPORARY YELLOW PAINT	5,200	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	31,385	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	5,200	SF

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2-11-2022

SCHEDULE OF QUANTITIES

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TENNESSEE AIRPORTS
STATE OF TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

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SCHEDULE OF QUANTITIES - MARTIN CAMPBELL FIELD AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	37,438	LF
P-101-5.2	CRACK REPAIR (TYPE II)	17,188	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	40,330	SF
P-101-5.4	CRACK REPAIR (TYPE III)	3,188	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	43,825	SY
P-620-5.1	TEMPORARY WHITE PAINT	18,050	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,290	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	18,050	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,290	SF

SCHEDULE OF QUANTITIES - McMINN COUNTY AIRPORT - ATHENS

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	103,083	LF
P-101-5.2	CRACK REPAIR (TYPE II)	9,463	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	62,885	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	137,965	SY
P-620-5.1	TEMPORARY WHITE PAINT	35,900	SF
P-620-5.2	TEMPORARY YELLOW PAINT	7,645	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	35,900	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	7,645	SF

SCHEDULE OF QUANTITIES - MONROE COUNTY AIRPORT - MADISONVILLE

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	21,708	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	28,700	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	38,615	SY
P-620-5.1	TEMPORARY WHITE PAINT	16,725	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,045	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	16,725	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,045	SF

SCHEDULE OF QUANTITIES - MURFREESBORO MUNICIPAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	40,578	LF
P-101-5.2	CRACK REPAIR (TYPE II)	5,878	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	835	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	98,125	SY
P-620-5.2	TEMPORARY YELLOW PAINT	835	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	835	SF

SCHEDULE OF QUANTITIES - SMITHVILLE MUNICIPAL AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	30,314	LF
P-101-5.2	CRACK REPAIR (TYPE II)	2,503	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	43,575	SF
P-605-5.1	CONCRETE JOINT REPAIR	605	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	58,520	SY
P-620-5.1	TEMPORARY WHITE PAINT	17,135	SF
P-620-5.2	TEMPORARY YELLOW PAINT	900	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	17,135	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	900	SF

SCHEDULE OF QUANTITIES - SUMNER COUNTY - MUSIC CITY EXECUTIVE AIRPORT

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	67,311	LF
P-101-5.2	CRACK REPAIR (TYPE II)	204	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	61,275	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	154,315	SY
P-620-5.1	TEMPORARY WHITE PAINT	33,130	SF
P-620-5.2	TEMPORARY YELLOW PAINT	9,250	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	33,130	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	9,250	SF

SCHEDULE OF QUANTITIES - TULLAHOMA REGIONAL AIRPORT

C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	72,063	LF
P-101-5.2	CRACK REPAIR (TYPE II)	7,838	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	117,105	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	88,985	SY
P-620-5.1	TEMPORARY WHITE PAINT	66,880	SF
P-620-5.2	TEMPORARY YELLOW PAINT	21,930	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	66,880	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	21,930	SF
P-620-5.5	BLACK PAINT	28,305	SF
P-620-5.6	RED PAINT WITH REFLECTIVE MEDIA	625	SF

SCHEDULE OF QUANTITIES - UPPER CUMBERLAND REGIONAL AIRPORT - SPARTA

C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	107,935	LF
P-101-5.2	CRACK REPAIR (TYPE II)	20,845	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	109,340	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	195,415	SY
P-620-5.1	TEMPORARY WHITE PAINT	94,715	SF
P-620-5.2	TEMPORARY YELLOW PAINT	13,685	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	94,715	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	13,685	SF

SCHEDULE OF QUANTITIES - WARREN COUNTY MEMORIAL AIRPORT - McMINNVILLE

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	46,299	LF
P-101-5.2	CRACK REPAIR (TYPE II)	27,244	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	6,720	SF
P-101-5.4	CRACK REPAIR (TYPE III)	3,250	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	62,430	SY
P-620-5.2	TEMPORARY YELLOW PAINT	6,720	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	6,720	SF

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

SCHEDULE OF QUANTITIES

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TENNESSEE AIRPORTS
STATE OF TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

C0.03B

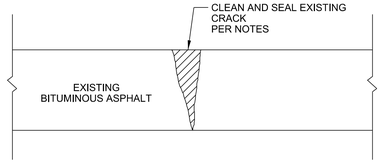
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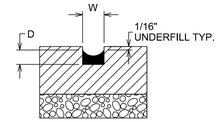
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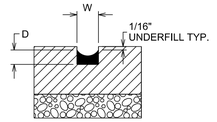
SEE REPAIR PROCEDURE NOTES 5, 6, & 7





CRACKS GREATER THAN 1/8" AND LESS THAN OR EQUAL TO 1"

CRACK REPAIR - TYPE I



CRACKS GREATER THAN 1" AND LESS THAN OR EQUAL TO 1.5"

CRACK REPAIR - TYPE II

WEATHER AND TEMPERATURE REQUIREMENTS

1. DO NOT BEGIN CRACK REPAIR DURING INCLEMENT WEATHER.
2. THE PAVEMENT TEMPERATURE SHOULD BE 50 DEGREE FAHRENHEIT AND RISING OR MEET THE MANUFACTURER'S RECOMMENDATIONS AT THE TIME OF APPLICATION OF THE CRACK SEALING MATERIAL.
3. DO NOT APPLY SEALANT IF MOISTURE IS OBSERVED IN THE CRACK.

PREPARATION

TO CHOOSE SEALANT:

1. CONSIDER YOUR GEOGRAPHIC AREA, CLIMATE, AND PAST PERFORMANCE OF THE SEALANT.
2. HOT-APPLIED SEALANTS MUST MEET THE REQUIREMENTS OF ASTM D6690.

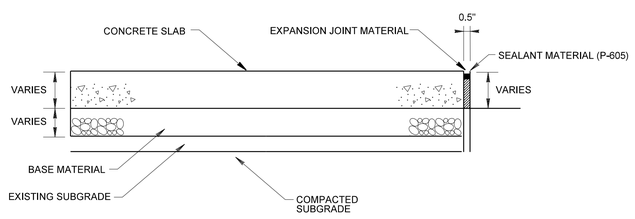
REPAIR PROCEDURE

1. REVIEW THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP). ENSURE ALL PAVEMENT CLOSURES HAVE ALL REQUIRED ITEMS IN PLACE, SUCH AS LIGHTED Xs, BARRICADES, SIGNS, ETC.; AND ALL NOTAMS HAVE BEEN ISSUED FOR AFFECTED AREAS OF THE AIRFIELD.
2. MARK THE LIMITS OF THE CRACK REPAIR.
3. USE AN AIR COMPRESSOR WITH AN OPERABLE OIL AND WATER TRAP TO CLEAN ALL CRACKS WITH COMPRESSED HOT AIR. THE CRACKS SHALL BE THOROUGHLY CLEANED AND DRIED OF ORGANIC AND / OR FOREIGN MATERIAL BEFORE BEING FILLED FLUSH WITH THE ASPHALT OR SEALANT; IN THE EVENT THE MATERIAL IS EASILY REMOVED. POST- INSTALLATION, IT WILL BE ASSUMED THE CRACKS WERE NOT PROPERLY CLEANED OF LOOSE MATERIAL PRIOR TO FILL APPLICATION.

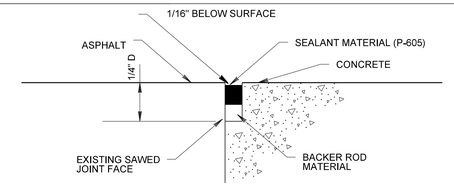
REPAIR PROCEDURE CONTINUED

4. PRE - EMERGENT HERBICIDE APPLIED TO THE CRACKS PRIOR TO FILLING SHALL BE GOWAN COMPANY'S BETASAN, DOW AGROSCIENCES TREFLAN, OR APPROVED EQUAL.
5. IF NECESSARY, SAW OR ROUT THE CRACKS TO THE REQUIRED WIDTH AND DEPTH. USE THE SEALANT MANUFACTURER'S SPECIFICATIONS TO DETERMINE THE SEALANT RESERVOIR DIMENSIONS (W x D). SAW CUTTING AND ROUTING SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM P-101.
6. INSPECT THE CRACKS FOR PROPER WIDTH, DEPTH, ALIGNMENT, AND PREPARATION. MAKE SURE THE CRACK SURFACE FACES ARE DRY.
7. TO OBTAIN THE WIDTH AND DEPTH RATIO REQUIRED BY THE SEALANT MANUFACTURER'S SPECIFICATIONS MAY REQUIRE INSTALLATION OF BACKER ROD. THE BACKER ROD SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM P-101. MAKE SURE THE BACKER ROD:
   - MEETS THE REQUIREMENTS OF ASTM D5249
   - IS COMPATIBLE WITH THE SEALANT
   - IS 25% LARGER IN DIAMETER THAN THE WIDTH OF THE SEALANT RESERVOIR
8. SEALANT MATERIAL SHALL BE PLACED WITHIN 24 HOURS OF SAW CUTTING OR ROUTING.
9. APPLY THE SEALANT UNIFORMLY FROM THE BOTTOM TO THE TOP OF THE CRACK AVOIDING VOIDS OR ENTRAPPING AIR.
10. MAKE SURE THE SURFACE OF THE SEALANT REMAINS 1/4 INCH TO 3/8 INCH BELOW THE EXISTING PAVEMENT SURFACE.
11. DO NOT ALLOW TRAFFIC UNTIL THE SEALANTS HAVE CURED.
12. COMPLETELY CLEAN THE WORK AREA BEFORE OPENING TO AIRCRAFT TRAFFIC. ANY EXCESS CRACK SEALER ON THE SURFACE OF THE PAVEMENT SHALL ALSO BE REMOVED FROM THE PAVEMENT SURFACE.

1 / C0.04A — PROCEDURE FOR CRACK REPAIR OF FLEXIBLE PAVEMENT
SCALE: N.T.S.

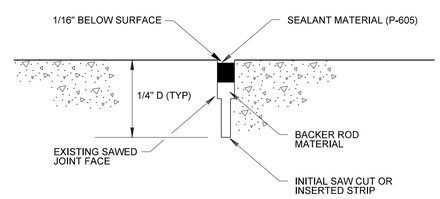


2 / C0.04A — TYPE B - EXPANSION JOINT



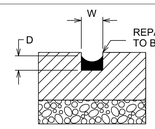
NOTES:
1. SEALANT MATERIAL SHALL BE FUEL RESISTANT. THIS COST IS INCIDENTAL TO ITEM P-605-5.1.

3 / C0.04A — CONCRETE - ASPHALT JOINT
SCALE: N.T.S.



NOTES:
1. SEALANT MATERIAL SHALL BE FUEL RESISTANT. THIS COST IS INCIDENTAL TO ITEM P-605-5.1

4 / C0.04A — TYPE E - SAW CUT CONTRACTION JOINTS
SCALE: N.T.S.



CRACKS GREATER THAN 1.5" AND LESS THAN OR EQUAL TO 3.5"

CRACK REPAIR - TYPE III

5 / C0.04A — PROCEDURE FOR TYPE III CRACK REPAIR
SCALE: N.T.S.

WEATHER AND TEMPERATURE REQUIREMENTS

1. DO NOT BEGIN CRACK REPAIR DURING INCLEMENT WEATHER.
2. THE PAVEMENT TEMPERATURE SHOULD BE 50 DEGREE FAHRENHEIT AND RISING OR MEET THE MANUFACTURER'S RECOMMENDATIONS AT THE TIME OF APPLICATION OF THE CRACK REPAIR MATERIAL.
3. DO NOT APPLY REPAIR IF MOISTURE IS OBSERVED IN THE CRACK.

REPAIR PROCEDURE

1. REVIEW THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP). ENSURE ALL PAVEMENT CLOSURES HAVE ALL REQUIRED ITEMS IN PLACE, SUCH AS LIGHTED Xs, BARRICADES, SIGNS, ETC.; AND ALL NOTAMS HAVE BEEN ISSUED FOR AFFECTED AREAS OF THE AIRFIELD.
2. MARK THE LIMITS OF THE CRACK REPAIR.
3. USE AN AIR COMPRESSOR WITH AN OPERABLE OIL AND WATER TRAP TO CLEAN ALL CRACKS WITH COMPRESSED HOT AIR. THE CRACKS SHALL BE THOROUGHLY CLEANED AND DRIED OF ORGANIC AND / OR FOREIGN MATERIAL BEFORE BEING FILLED FLUSH WITH THE ASPHALT OR SEALANT; IN THE EVENT THE MATERIAL IS EASILY REMOVED. POST- INSTALLATION, IT WILL BE ASSUMED THE CRACKS WERE NOT PROPERLY CLEANED OF LOOSE MATERIAL PRIOR TO FILL APPLICATION.

REPAIR PROCEDURE CONTINUED

4. THE CRACK REPAIR PRODUCT MUST BE APPROVED BY THE ENGINEER FOR VERY WIDE CRACKS. THE REPAIR PRODUCT SHALL BE MASTIC ONE, ELEPHANT ARMOR, OR APPROVED EQUAL.
5. IF THE METHODS AND/OR STANDARDS OF INSTALLATION ARE NOT MET WITH THE APPROVED REPAIR PRODUCT THAN THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING & REPLACING THE APPROVED PRODUCT TO MEET FINAL APPROVAL STANDARDS.

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JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

GENERAL CIVIL DETAILS

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TENNESSEE AIRPORTS
STATE OF TENNESSEE

REVISION INFORMATION

REV.	DRL	CHK	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

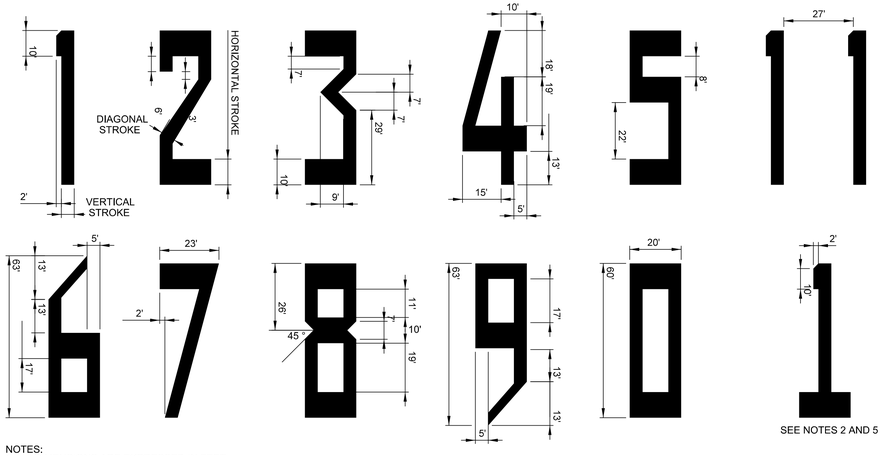
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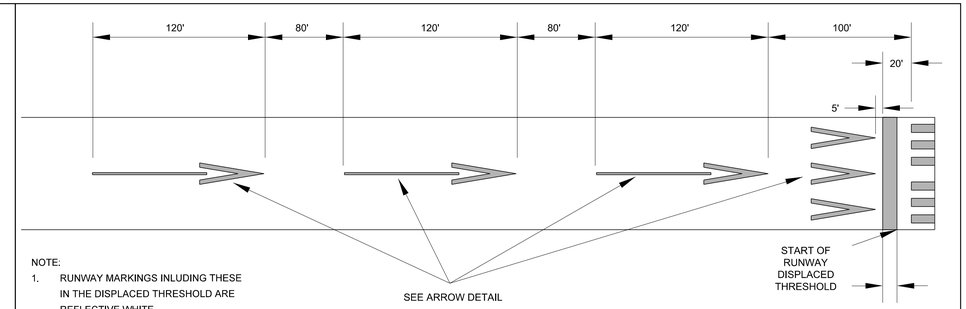
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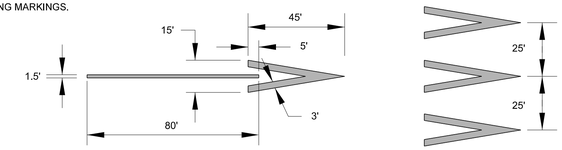
SEE NOTES 2 AND 5

NOTES:
1. DIMENSIONS ARE EXPRESSED IN FEET.
2. ALL CHARACTERS HAVE THESE CHARACTERISTICS (UNLESS OTHERWISE SPECIFIED)
   - 60' HIGH
   - 20' WIDE
   - VERTICAL STROKE OF 5'
   - HORIZONTAL STROKE OF 10'
   - DIAGONAL STROKE OF 5'
3. ALL NUMERALS EXCEPT THE NUMER ELEVEN (11) ARE HORIZONTALLY SPACED 15' APART. THE NUMBER ELEVEN (11) IS SPACED 27' APART HORIZONTALLY.
4. SINGLE DIGITS MUST NOT BE PRECEDED BY ZERO (0).
5. THE NUMERAL "1" (ONE), WHEN USED ALONE, CONTAINS A HORIZONTAL STROKE, AS SHOWN, TO DIFFERENTIATE IT FROM THE RUNWAY CENTERLINE MARKING.
6. SINGLE DESIGNATORS ARE CENTERED ABOUT THE RUNWAY PAVEMENT CENTERLINE. FOR DOUBLE DESIGNATIONS, THE CENTER OF THE OUTER EDGES OF THE TWO NUMERALS IS CENTERED ON THE RUNWAY PAVEMENT CENTERLINE.
7. WHERE THE RUNWAY DESIGNATION CONSISTS OF A NUMBER AND A LETTER, THE NUMBER AND LETTER ARE LOCATED ON THE RUNWAY CENTERLINE IN A STACKED ARRANGEMENT AS SHOWN IN FIGURE A-1 IN FAA AC 150-5340 1M.

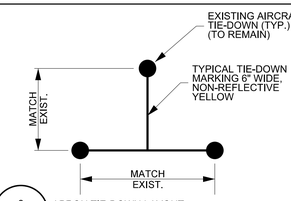
1 / C0.04B — RUNWAY NUMERAL DETAILS
SCALE: N.T.S.



NOTE:
1. RUNWAY MARKINGS INLUDING THESE IN THE DISPLACED THRESHOLD ARE REFLECTIVE WHITE.
2. DISPLACED THRESHOLD MARKINGS SHOULD MATCH EXISTING MARKINGS.

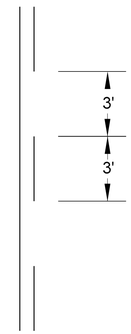


2 / C0.04B — DISPLACED THRESHOLD DETAIL (FOR REFERENCE ONLY)
SCALE: N.T.S.

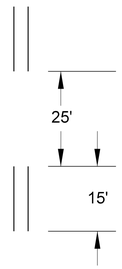


3 / C0.04B — APRON TIE-DOWN LAYOUT
SCALE: N.T.S.

NOTE:
1. DUAL LINES ARE 6" WIDE WITH A 6" SPACE BETWEEN LINES. (REFLECTIVE YELLOW) (TYPE I BEADS)
2. DASHED LINE ON MOVEMENT SIDE.
3. SOLID LINE ON NON-MOVEMENE SIDE.



4 / C0.04B — NON-MOVEMENT AREA MARKING
SCALE: N.T.S.



NOTE:
1. DUAL LINES ARE 6" WIDE WITH A 6" SPACE BETWEEN LINES (REFLECTIVE YELLOW) (TYPE I BEADS)

5 / C0.04B — TAXIWAY EDGE MARKINGS DETAIL
SCALE: N.T.S.

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JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

RUNWAY & NUMERAL MARKING DETAILS

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TENNESSEE AIRPORTS
STATE OF TENNESSEE

REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

REVISION INFORMATION

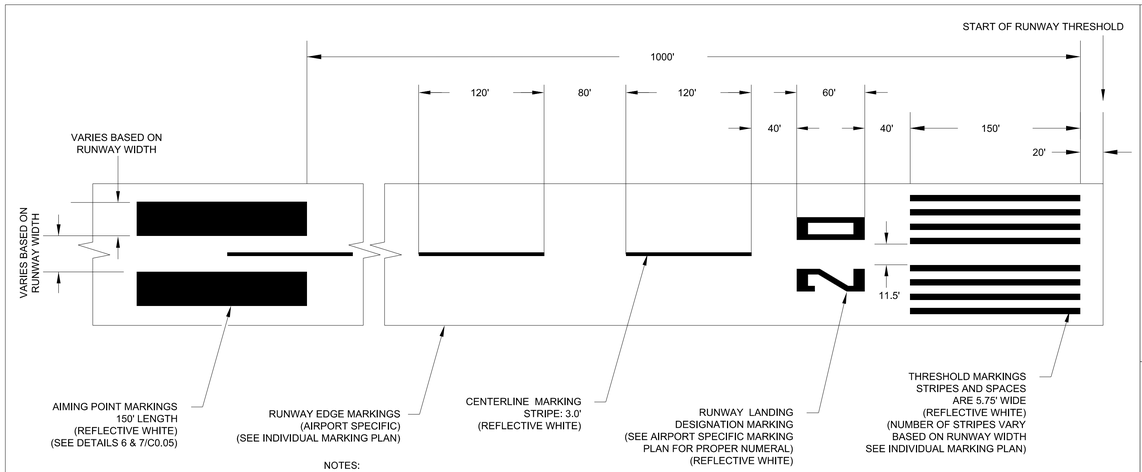
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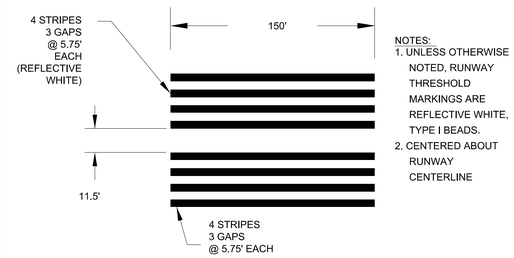
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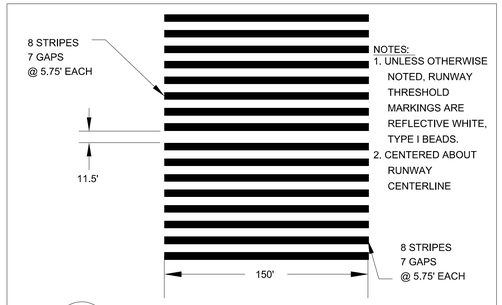
1. DIMENSIONS ARE EXPRESSED IN FEET.
2. ALL NUMERALS ARE HORIZONTALLY SPACED 15' APART.
3. SINGLE DESIGNATIONS ARE CENTERED ON THE RUNWAY PAVEMENT CENTERLINE. FOR DOUBLE DESIGNATIONS, THE CENTER OF THE OUTER EDGES OF THE TWO NUMERALS IS CENTERED ON THE RUNWAY PAVEMENT CENTERLINE.
4. SEE DETAIL 4/C0.05 FOR TOUCHDOWN ZONE MARKINGS.

1 / C0.05 — PRECISION RUNWAY MARKINGS - GENERAL
SCALE: N.T.S.



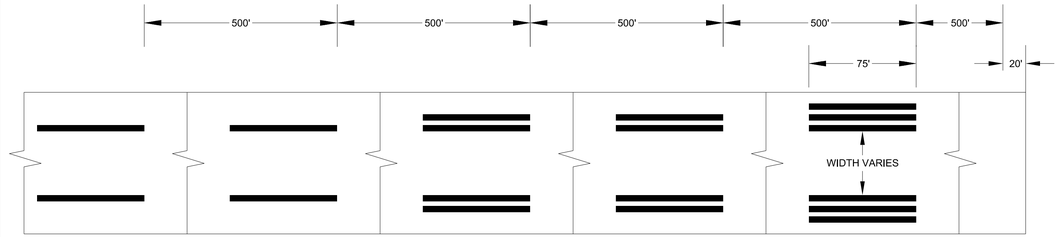
NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY THRESHOLD MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE

2 / C0.05 — THRESHOLD MARKING - 100' RUNWAY WIDTH
SCALE: N.T.S.

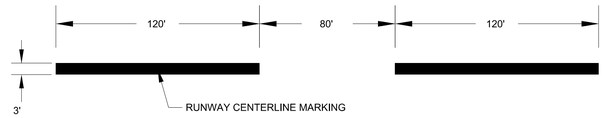


NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY THRESHOLD MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE

3 / C0.05 — THRESHOLD MARKING - 200' RUNWAY WIDTH
N.T.S.

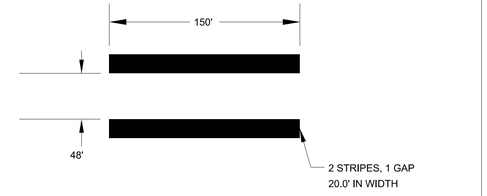


4 / C0.05 — TOUCHDOWN ZONE MARKING - GENERAL
N.T.S.



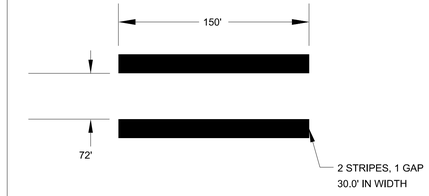
NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY CENTERLINE MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. ADJUSTMENTS TO RUNWAY CENTERLINE STRIPES AND GAPS ARE MADE NEAR THE RUNWAY MIDPOINT. SEE AIRFIELD MARKING PLANS FOR INSTRUCTIONS.

5 / C0.05 — RUNWAY CENTERLINE MARKINGS
N.T.S.



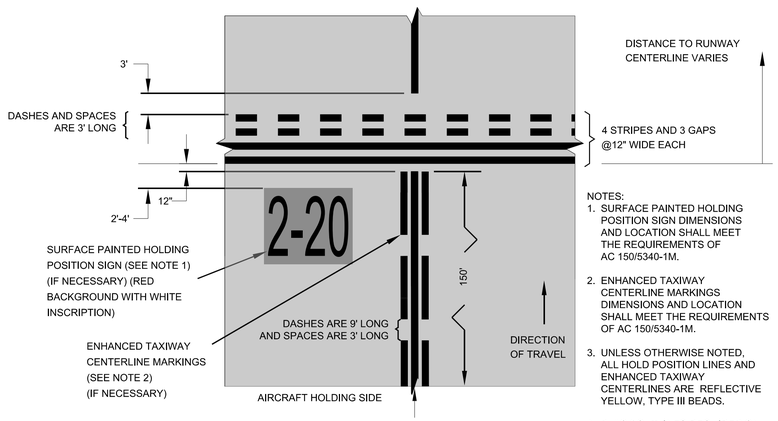
NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY AIMING POINT MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE

6 / C0.05 — RUNWAY AIMING POINT MARKING - 100 RUNWAY WIDTH
N.T.S.



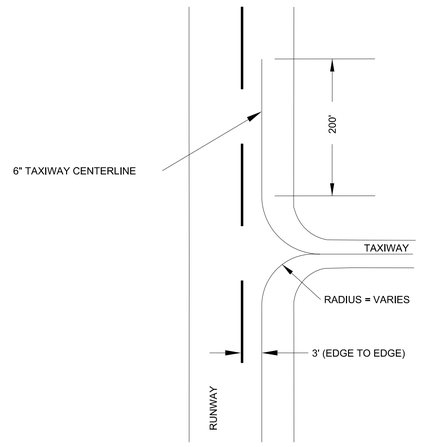
NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY AIMING POINT MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE

7 / C0.05 — RUNWAY AIMING POINT MARKING - 200' RUNWAY WIDTH
N.T.S.



NOTES:
1. SURFACE PAINTED HOLDING POSITION SIGN DIMENSIONS AND LOCATION SHALL MEET THE REQUIREMENTS OF AC 150/5340-1M.
2. ENHANCED TAXIWAY CENTERLINE MARKINGS DIMENSIONS AND LOCATION SHALL MEET THE REQUIREMENTS OF AC 150/5340-1M.
3. UNLESS OTHERWISE NOTED, ALL HOLD POSITION LINES AND ENHANCED TAXIWAY CENTERLINES ARE REFLECTIVE YELLOW, TYPE III BEADS.
4. BLACK OUTLINES REQUIRED ON CONCRETE.

8 / C0.05 — RUNWAY HOLDING POSTION AND ENHANCED TAXIWAY CENTERLINE MARKINGS
SCALE: N.T.S.



9 / C0.05 — TAXIWAY MARKING ON RUNWAY
N.T.S.

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2-11-2022

PRECISION RUNWAY MARKING DETAILS

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TENNESSEE AIRPORTS
STATE OF TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

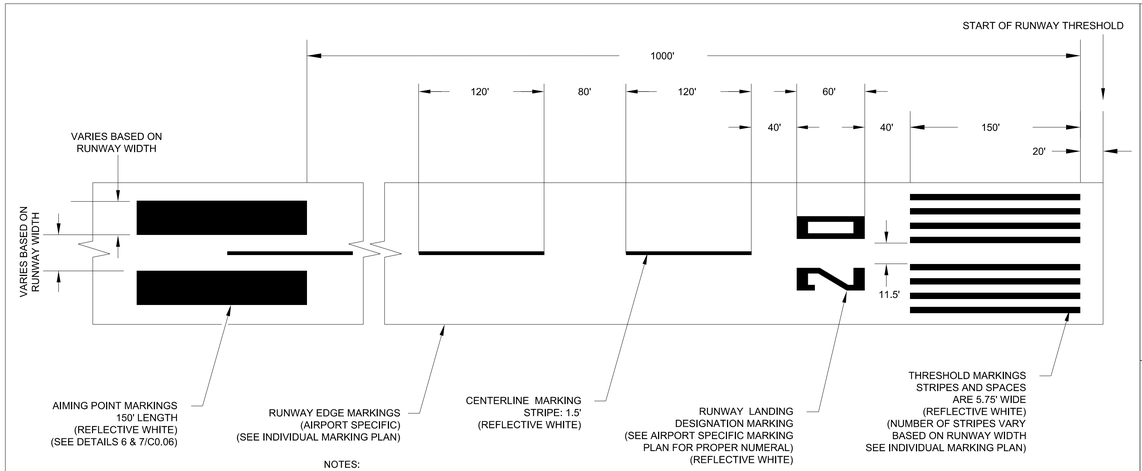
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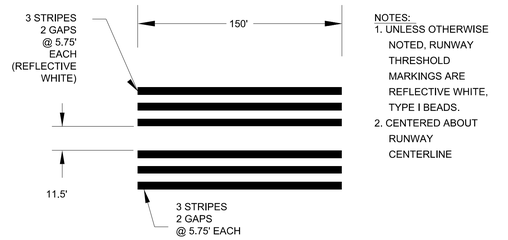
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NOTES:

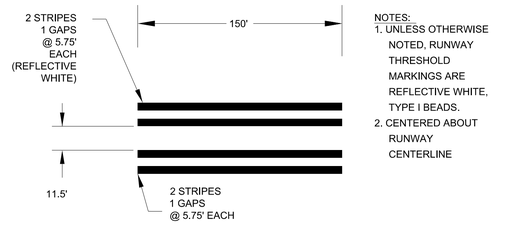
1. DIMENSIONS ARE EXPRESSED IN FEET.
2. ALL NUMERALS ARE HORIZONTALLY SPACED 15' APART.
3. SINGLE DESIGNATIONS ARE CENTERED ON THE RUNWAY PAVEMENT CENTERLINE. FOR DOUBLE DESIGNATIONS, THE CENTER OF THE OUTER EDGES OF THE TWO NUMERALS IS CENTERED ON THE RUNWAY PAVEMENT CENTERLINE.
4. SEE DETAIL 4/C0.06 FOR TOUCHDOWN ZONE MARKINGS.

1 / C0.06 NON-PRECISION RUNWAY MARKINGS - GENERAL
SCALE: N.T.S.



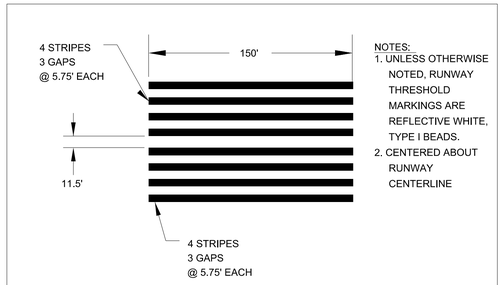
NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY THRESHOLD MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE

2 / C0.06 THRESHOLD MARKING - 75' RUNWAY WIDTH
SCALE: N.T.S.



NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY THRESHOLD MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE

3 / C0.06 THRESHOLD MARKING - 60' RUNWAY WIDTH
SCALE: N.T.S.



NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY THRESHOLD MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE

4 / C0.06 THRESHOLD MARKING - 100' RUNWAY WIDTH
N.T.S.

NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY CENTERLINE MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. ADJUSTMENTS TO RUNWAY CENTERLINE STRIPES AND GAPS ARE MADE NEAR THE RUNWAY MIDPOINT. SEE AIRFIELD MARKING PLANS FOR INSTRUCTIONS.

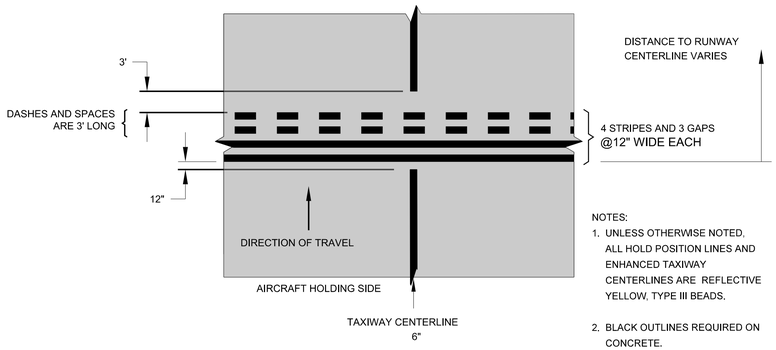
5 / C0.06 RUNWAY CENTERLINE MARKINGS
N.T.S.

NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY AIMING POINT MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE
3. MARKING LENGTH CAN BE 100' IF RUNWAY LENGTH IS LESS THAN 4,200 LINEAR FEET.

6 / C0.06 RUNWAY AIMING POINT MARKING - 75' RUNWAY WIDTH
N.T.S.

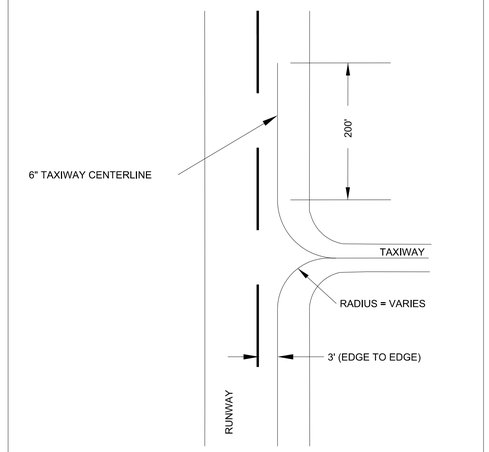
NOTES:
1. UNLESS OTHERWISE NOTED, RUNWAY AIMING POINT MARKINGS ARE REFLECTIVE WHITE, TYPE I BEADS.
2. CENTERED ABOUT RUNWAY CENTERLINE
3. MARKING LENGTH CAN BE 100' IF RUNWAY LENGTH IS LESS THAN 4,200 LINEAR FEET.

7 / C0.06 RUNWAY AIMING POINT MARKING - 100' RUNWAY WIDTH
N.T.S.



NOTES:
1. UNLESS OTHERWISE NOTED, ALL HOLD POSITION LINES AND ENHANCED TAXIWAY CENTERLINES ARE REFLECTIVE YELLOW, TYPE III BEADS.
2. BLACK OUTLINES REQUIRED ON CONCRETE.

8 / C0.06 RUNWAY HOLDING POSTION MARKING
SCALE: N.T.S.



9 / C0.06 TAXIWAY MARKING ON RUNWAY
N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER JEREMY GREEN No. 121291 STATE OF TENNESSEE
2-11-2022

NON-PRECISION RUNWAY MARKING DETAILS

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TENNESSEE AIRPORTS
STATE OF TENNESSEE

REVISION INFORMATION			
NO.	DESCRIPTION	DATE	CHK.
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DR. JAC
RSV. JRM

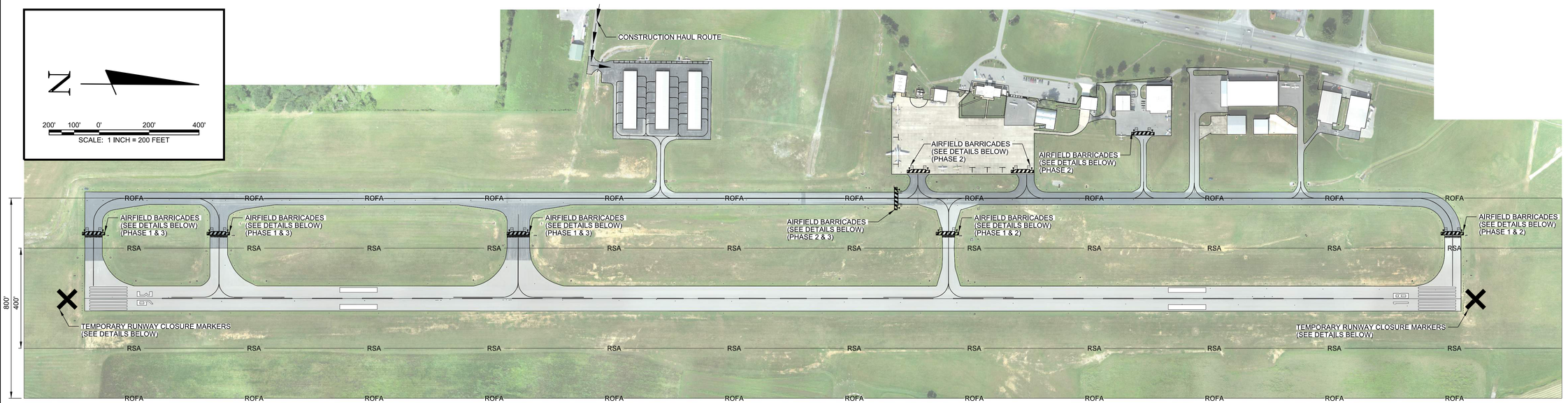
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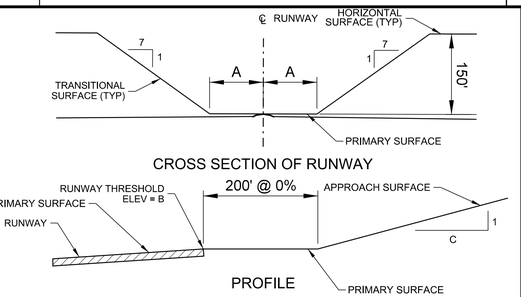
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PROJECT PHASING: 15 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, SEAL COAT, REMARKING ONLY) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: NORTHERN TAXIWAY & T-HANGAR APRON WORK (4 DAYS) (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) PHASE 3: SOUTHERN TAXIWAY & T-HANGAR APRON WORK (4 DAYS) (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)	ROFA — RUNWAY OBJECT FREE AREA CONSTRUCTION HAUL ROUTE RSA — RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OF ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 200' OF THE PRIMARY RUNWAY 18-36 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 400' OF THE PRIMARY RUNWAY 18-36 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY

PROFILE

RUNWAY END	A	B	C
18	250'	799.10'	34
36	250'	793.30'	34

FAR PART 77 SURFACES

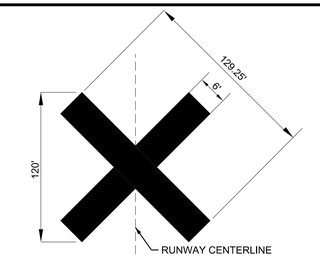
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 18-36	400'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C1.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
PAUL PERRY
2828 HIGHWAY 231 N, SHELBYVILLE, TN 37160
(931) 684-1669

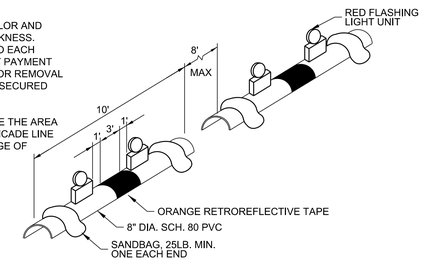
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

SHELBYVILLE POLICE DEPARTMENT:
(931) 684-5811

SHELBYVILLE FIRE DEPARTMENT:
(931) 684-6241

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C1.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
BOMAR FIELD, SYI
SHELBYVILLE, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

ISSUED FOR BID

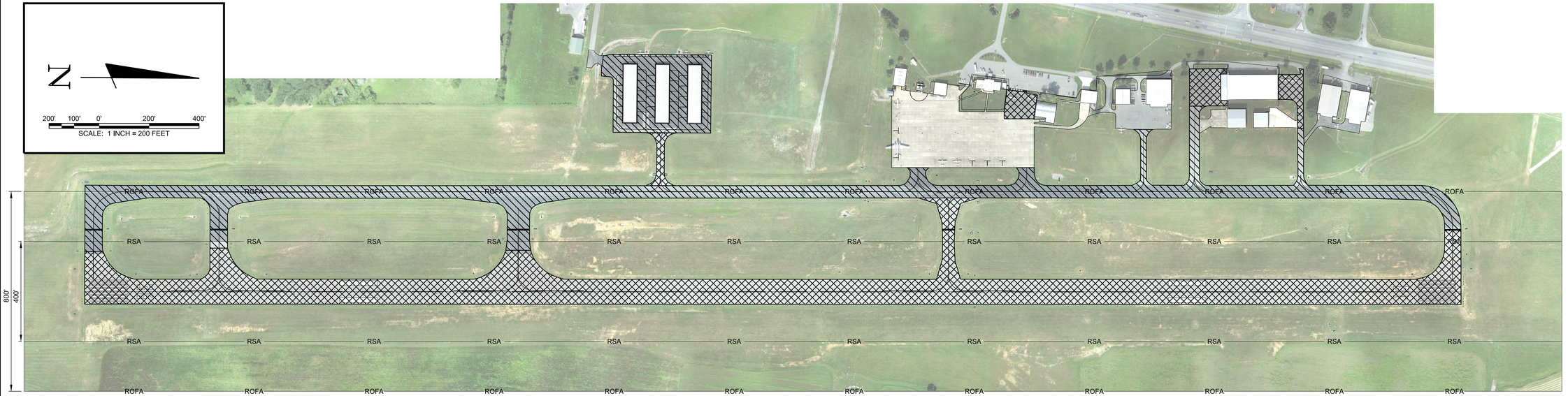
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PROJECT PHASING: 15 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, SEAL COAT, REMARKING ONLY) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: NORTHERN TAXIWAY & T-HANGAR APRON WORK (4 DAYS) (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) PHASE 3: SOUTHERN TAXIWAY & T-HANGAR APRON WORK (4 DAYS) (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)	—ROFA— RUNWAY OBJECT FREE AREA — RSA— RUNWAY SAFETY AREA SEAL COAT , REMARKING ONLY CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	9,938	LF
P-101-5.2	CRACK REPAIR (TYPE II)	657	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	74,920	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	128,120	SY
P-620-5.1	TEMPORARY WHITE PAINT	32,730	SF
P-620-5.2	TEMPORARY YELLOW PAINT	9,160	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	32,730	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	9,160	SF

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
BOMAR FIELD, SYI
SHELBYVILLE, TENNESSEE

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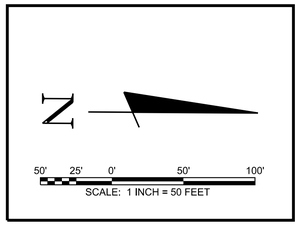
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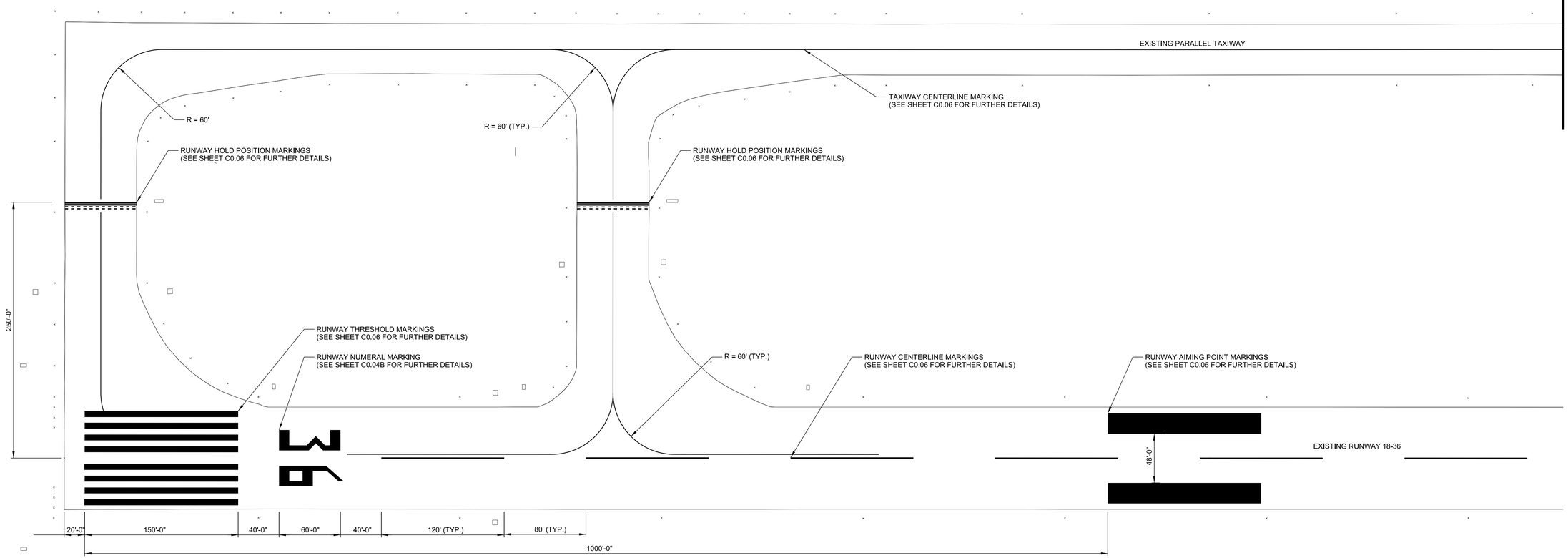
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

MATCH LINE - SEE SHEET C1.04



BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
BOMAR FIELD, SYI
SHELBYVILLE, TENNESSEE

REVISION INFORMATION			
REV.	DRK.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

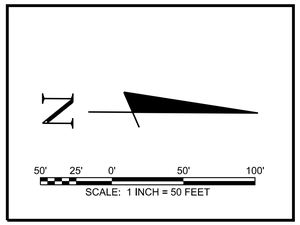
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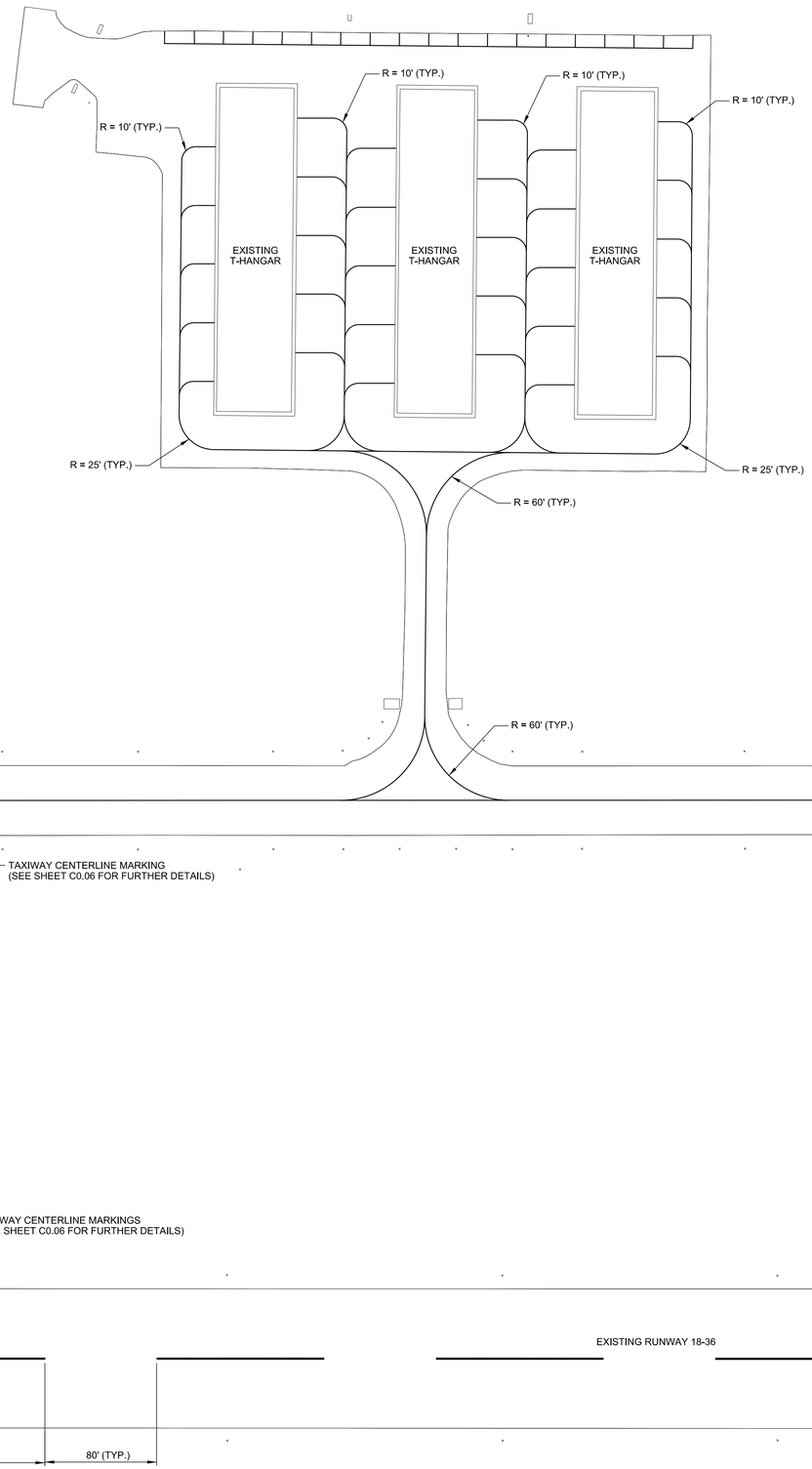
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MATCH LINE - SEE SHEET C1.03

MATCH LINE - SEE SHEET C1.05

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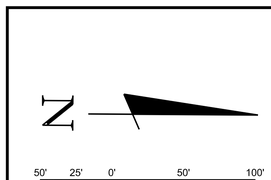
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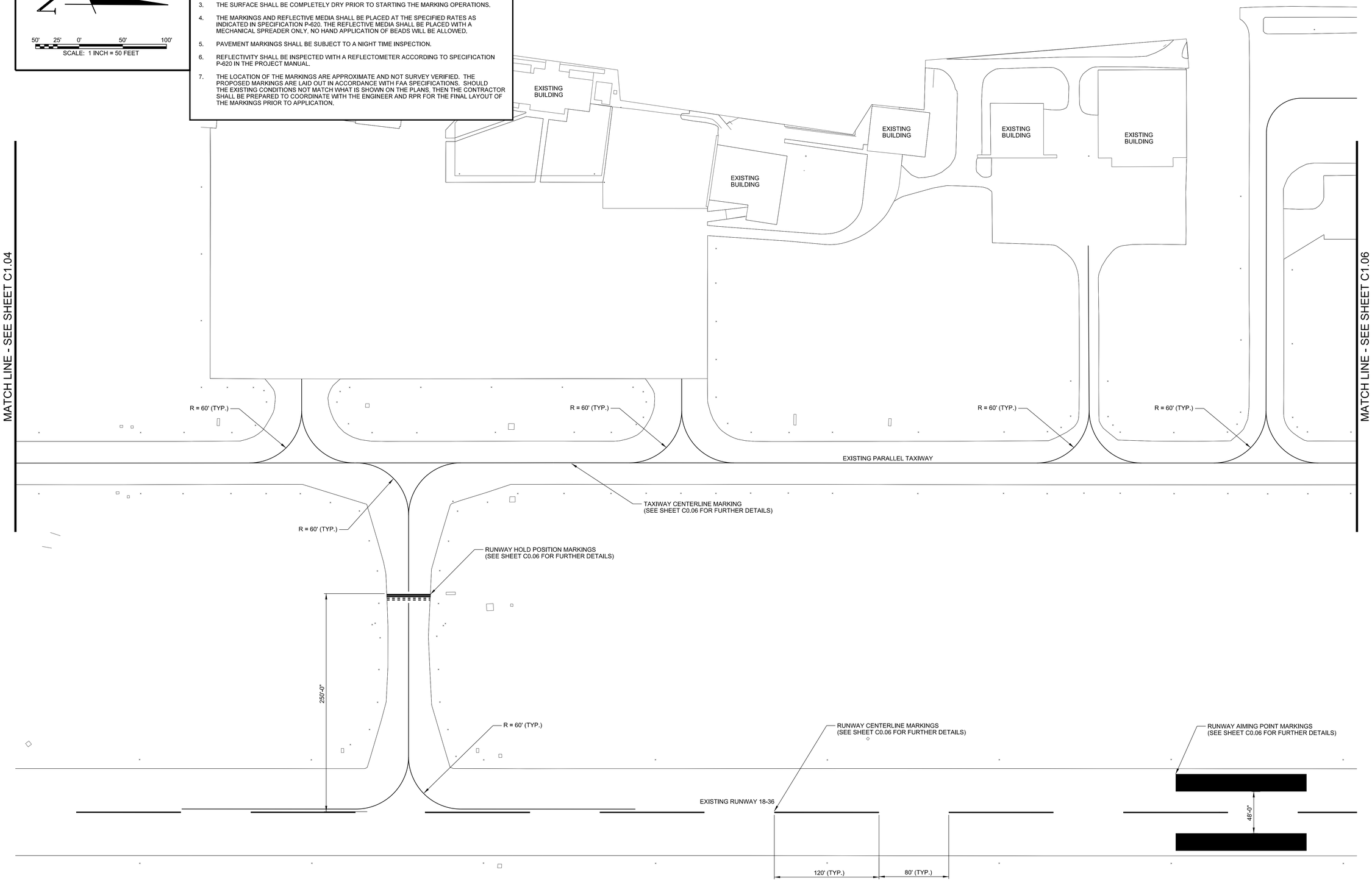
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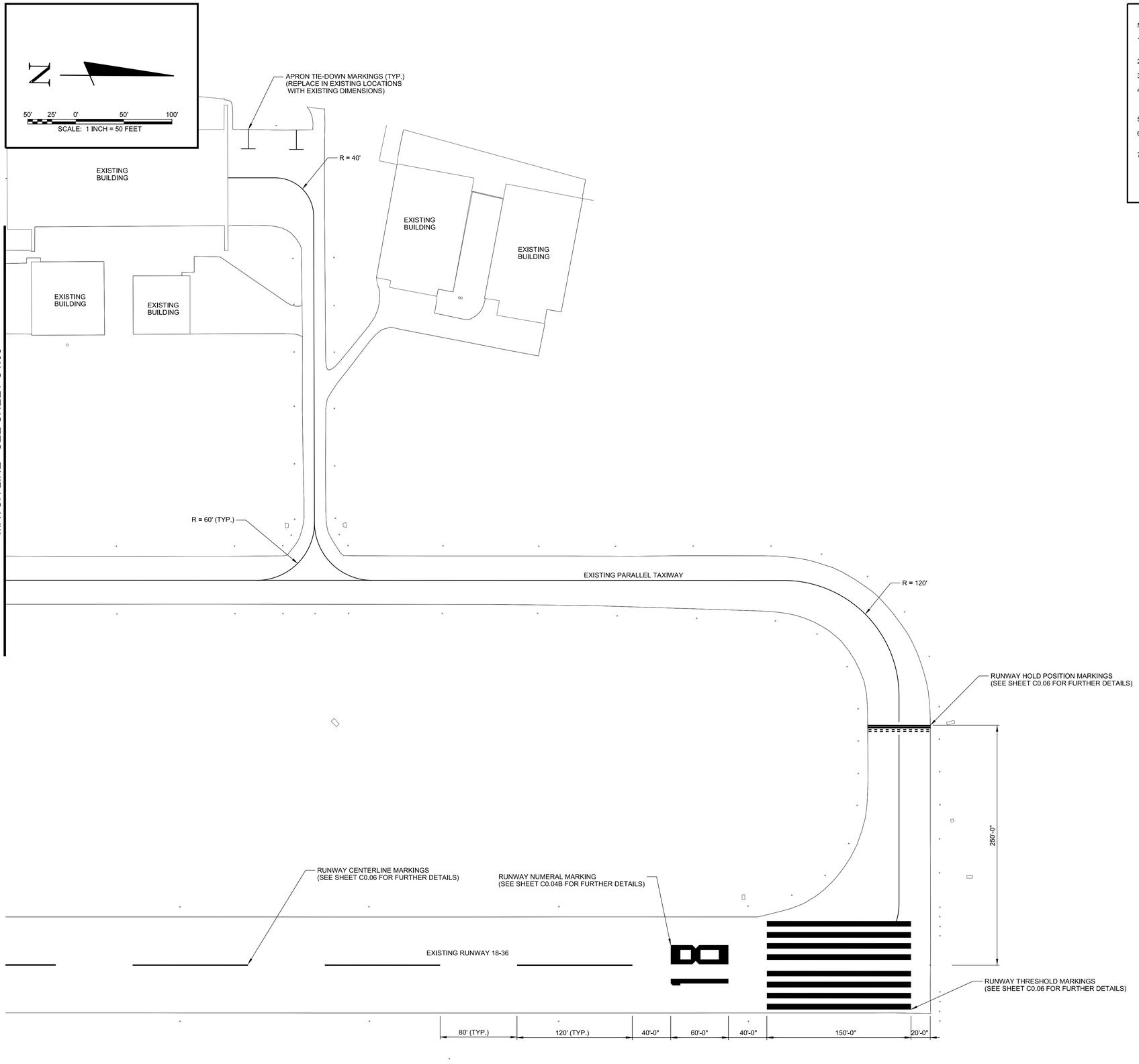
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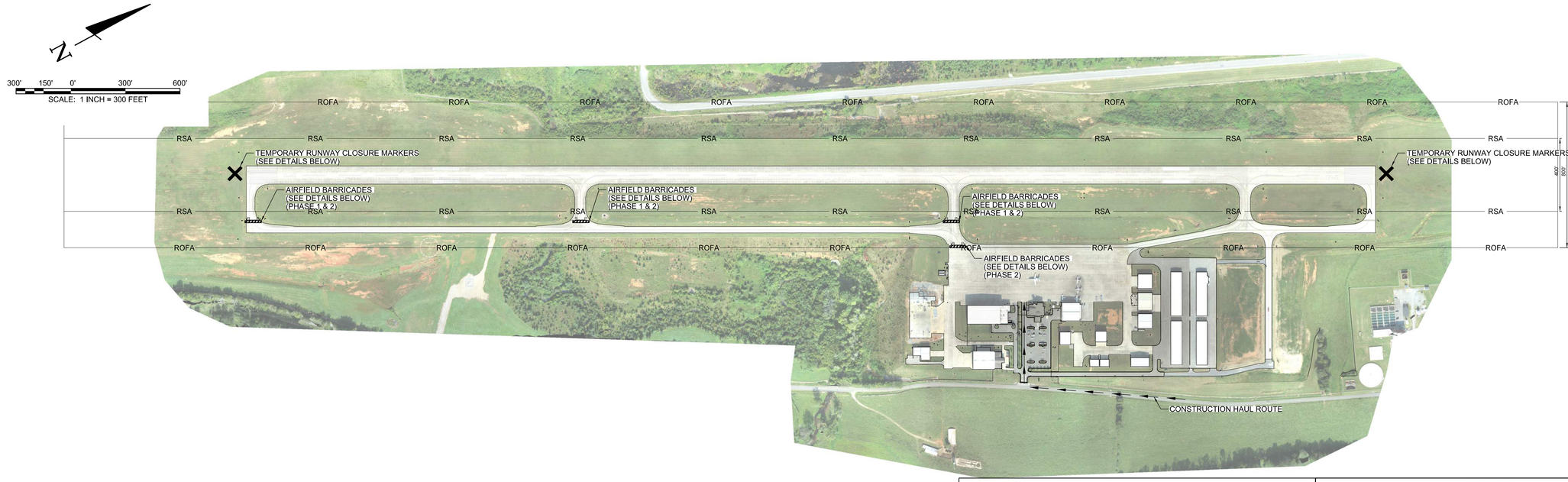
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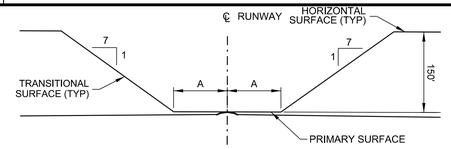
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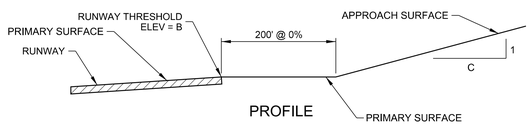
PROJECT PHASING: 9 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY & APRON WORK (MARKING REMOVAL, LAYOUT, REMARKING ONLY) (6 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: TAXIWAY WORK (2 DAYS) (MARKING REMOVAL, REMARKING)	ROFA — RUNWAY OBJECT FREE AREA CONSTRUCTION HAUL ROUTE RSA — RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.70. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.70 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 200' OF THE PRIMARY RUNWAY 3-21 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 400' OF THE PRIMARY RUNWAY 3-21 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
3	250'	824.91'	34
21	250'	865.64'	34

FAR PART 77 SURFACES

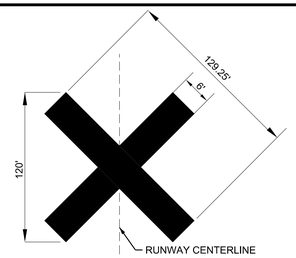
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 3-21	400'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C2.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
MARK FIDLER
251 DRY VALLEY RD NE, CLEVELAND, TN 37312
(423) 650-3775

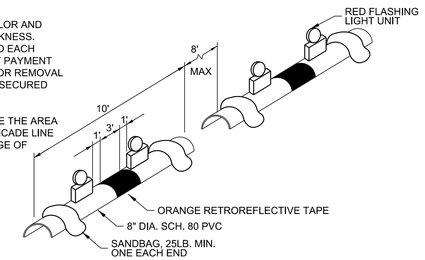
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

CLEVELAND CITY POLICE DEPARTMENT:
(423) 476-7511

BRADLEY COUNTY FIRE DEPARTMENT:
(423) 473-6734

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C2.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER JEREMY GREER No. 121291 STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
CLEVELAND REGIONAL JETPORT, RZR
CLEVELAND, TENNESSEE

REVISION INFORMATION			
DESCRIPTION	DR.	CHK.	DATE
ISSUED FOR BID	JAC	JDG	02-11-2022

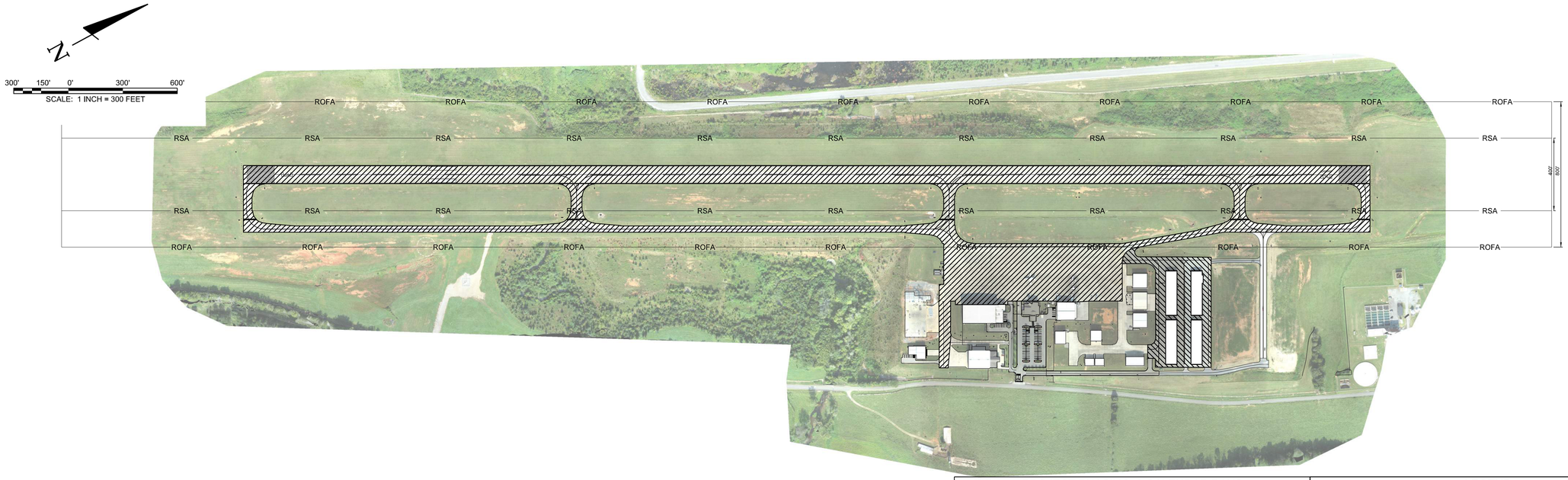
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PROJECT PHASING: 9 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, LAYOUT, REMARKING ONLY) (4 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: TAXIWAY & APRON WORK (2 DAYS) (MARKING REMOVAL, REMARKING) PHASE 3: T-HANGAR WORK (3 DAYS) (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)	—ROFA— RUNWAY OBJECT FREE AREA — RSA— RUNWAY SAFETY AREA REMARKING ONLY CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	5,500	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	98,560	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	15,195	SY
P-620-5.1	TEMPORARY WHITE PAINT	32,525	SF
P-620-5.2	TEMPORARY YELLOW PAINT	8,530	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	32,525	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	8,530	SF
P-620-5.5	BLACK PAINT	20,310	SF

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REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
CLEVELAND REGIONAL JETPORT, RZR
CLEVELAND, TENNESSEE

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DR. JAC
REV. JRM

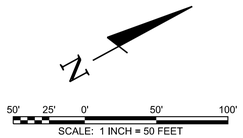
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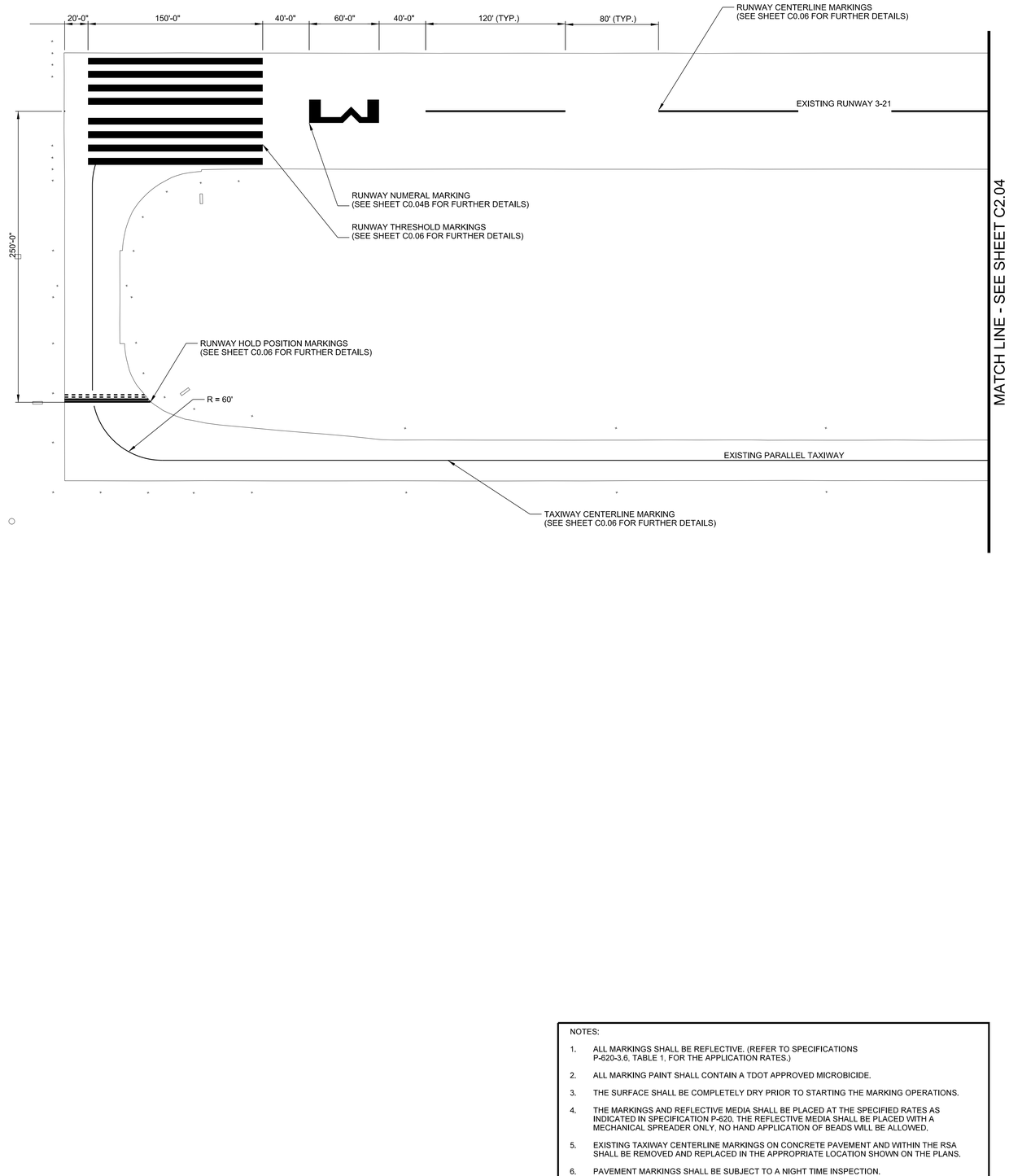
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. EXISTING TAXIWAY CENTERLINE MARKINGS ON CONCRETE PAVEMENT AND WITHIN THE RSA SHALL BE REMOVED AND REPLACED IN THE APPROPRIATE LOCATION SHOWN ON THE PLANS.
6. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
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9. ALL MARKINGS ON CONCRETE PAVEMENT SHALL REQUIRE 6-INCH BLACK OUTLINE.

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REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
CLEVELAND REGIONAL JETPORT, RZR
CLEVELAND, TENNESSEE

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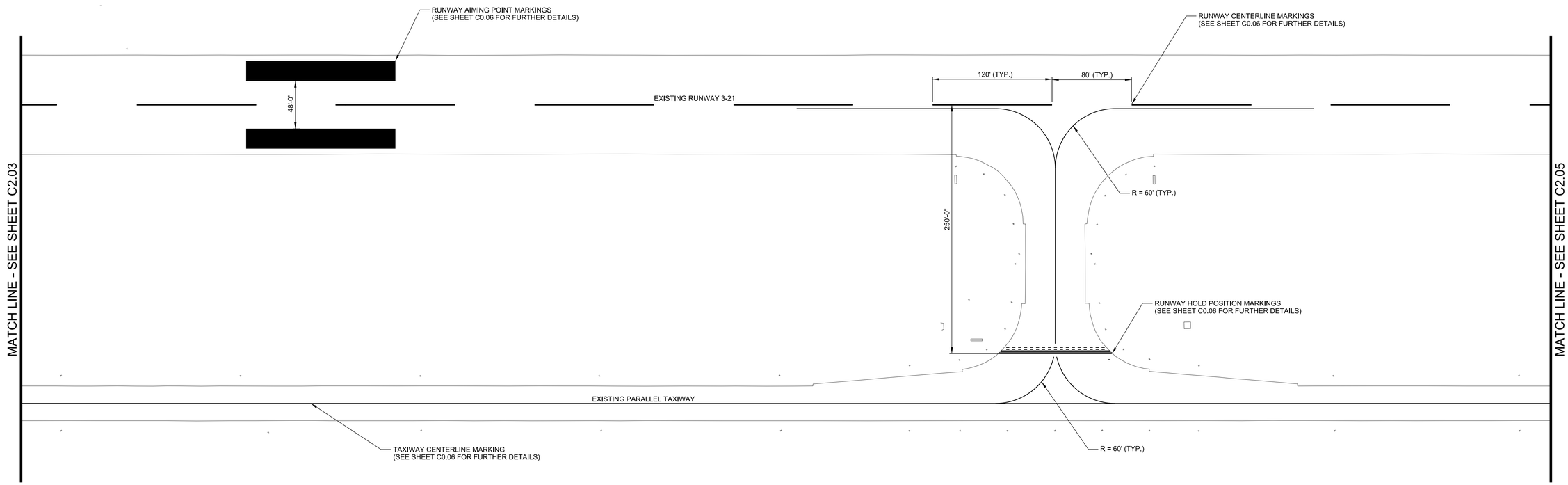
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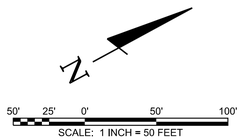
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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
CLEVELAND REGIONAL JETPORT, RZR
CLEVELAND, TENNESSEE

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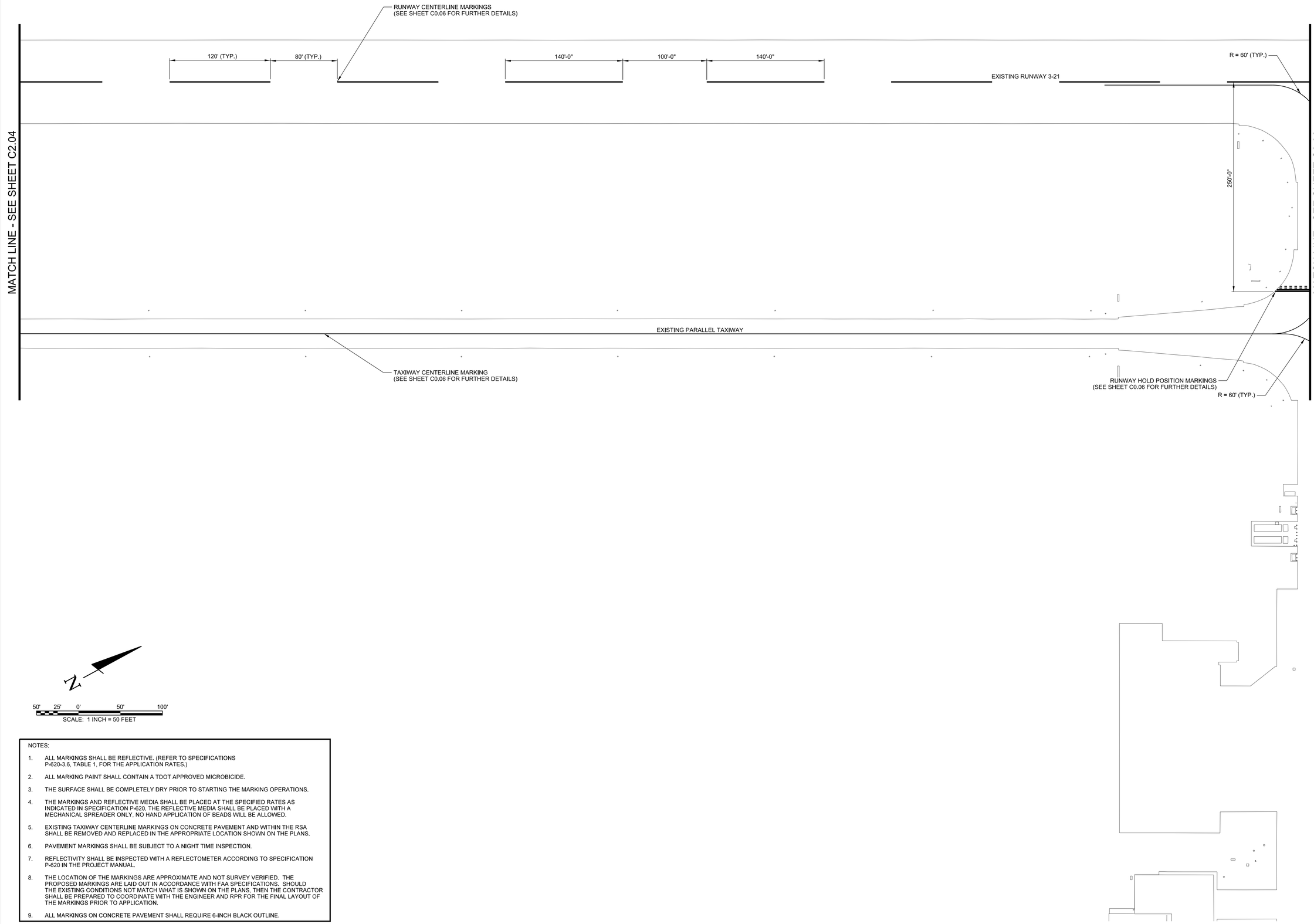
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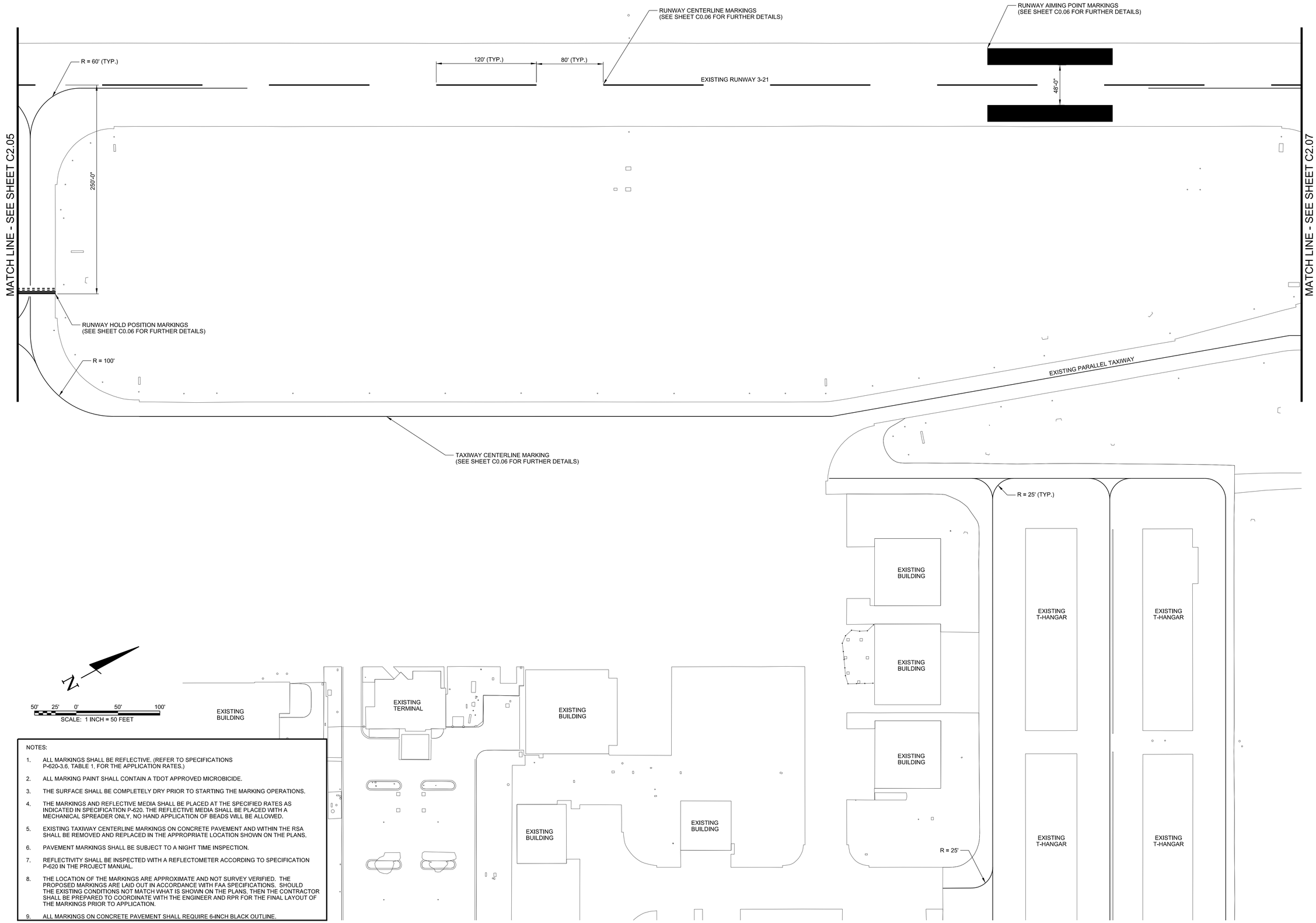
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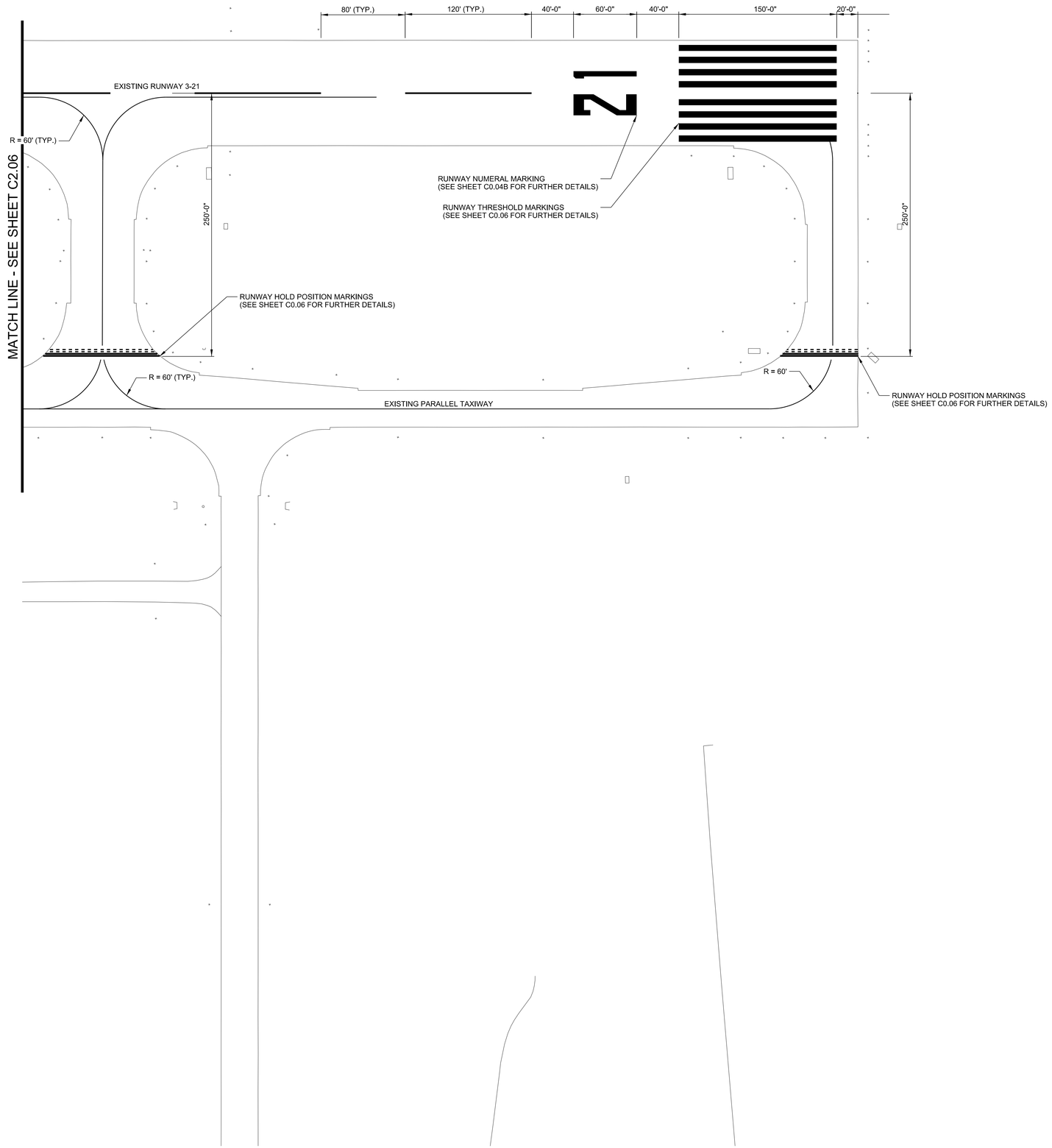
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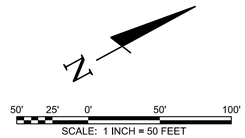
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AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
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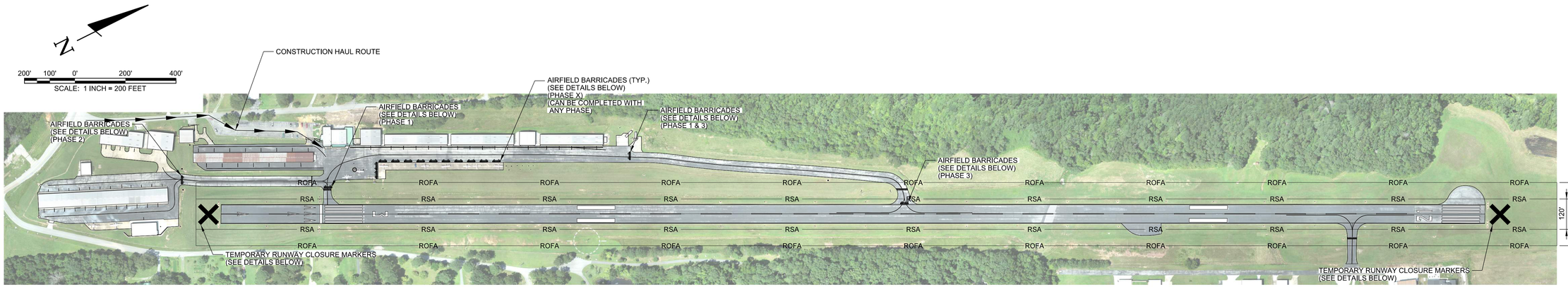
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PROJECT PHASING: 15 CALENDAR DAYS

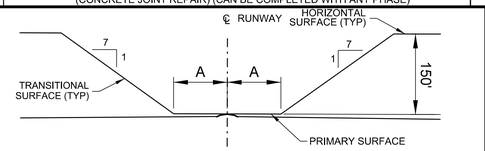
PHASE 1: RUNWAY WORK (MARKING REMOVAL, SEAL COAT, REMARKING ONLY)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: SOUTHERN TAXIWAY & T-HANGAR APRON WORK (3 DAYS)
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING, & CONCRETE JOINT REPAIR)
PHASE 3: NORTHERN TAXIWAY (3 DAYS)
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
PHASE X: MAIN APRON CONCRETE SECTION (2 DAYS)
(CONCRETE JOINT REPAIR) (CAN BE COMPLETED WITH ANY PHASE)

LEGEND

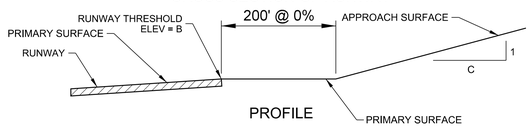
ROFA — RUNWAY OBJECT FREE AREA
RSA — RUNWAY SAFETY AREA
CONSTRUCTION HAUL ROUTE

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.70. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.70 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 60' OF THE PRIMARY RUNWAY 3-21 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 125' OF THE PRIMARY RUNWAY 3-21 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
3	250'	872.00'	20
21	250'	856.90'	20

FAR PART 77 SURFACES

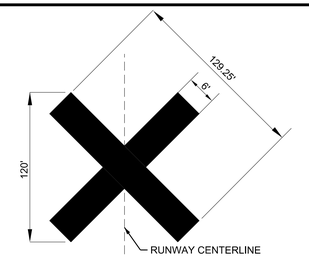
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 3-21	120'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C3.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
CHRIS SWAIN
5100 BESS MOORE RD, APISON, TN 37302
(423) 236-5008

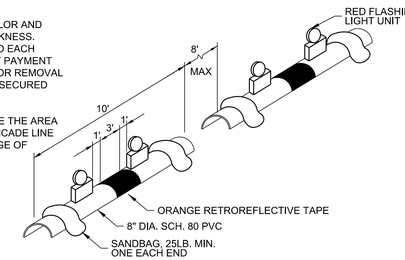
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

COLLEGEDALE POLICE DEPARTMENT:
(423) 396-3135

TRI-COMMUNITY FIRE DEPARTMENT:
(423) 396-3113

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C3.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER — JEREMY GREEN — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
COLLEGEDALE MUNICIPAL AIRPORT, FGU
COLLEGEDALE, TENNESSEE

REV'S	DR.	CHK.	DATE	REVISION INFORMATION
0	JAC	JDG	02-11-2022	ISSUED FOR BID

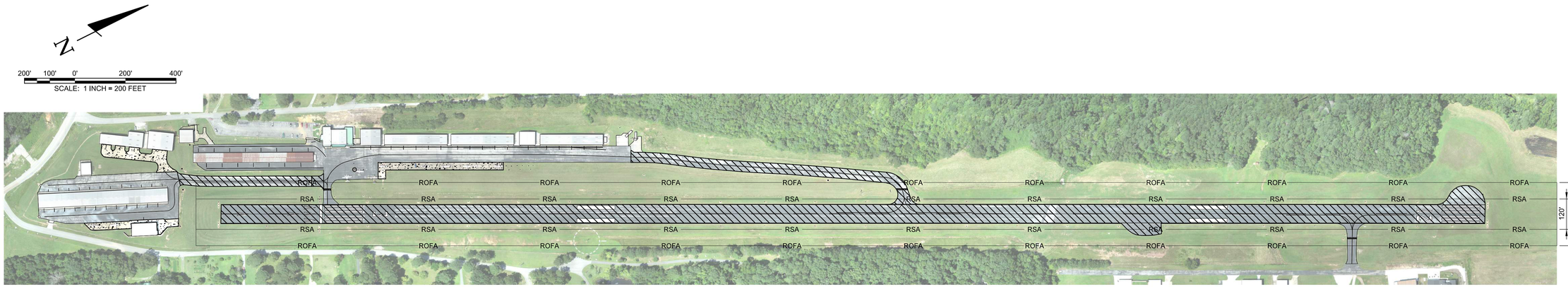
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PROJECT PHASING: 15 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, SEAL COAT, REMARKING ONLY)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: SOUTHERN TAXIWAY & T-HANGAR APRON WORK (3 DAYS)
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING,
& CONCRETE JOINT REPAIR)
PHASE 3: NORTHERN TAXIWAY (3 DAYS)
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
PHASE X: MAIN APRON CONCRETE SECTION (2 DAYS)
(CONCRETE JOINT REPAIR) (CAN BE COMPLETED WITH ANY PHASE)

LEGEND

—ROFA— RUNWAY OBJECT FREE AREA
— RSA — RUNWAY SAFETY AREA
CONCRETE JOINT REPAIR
CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	21,800	LF
P-101-5.2	CRACK REPAIR (TYPE II)	21,250	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	58,200	SF
P-101-5.4	CRACK REPAIR (TYPE III)	375	LF
P-605-5.1	JOINT SEALING FILLER	2,300	SY
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	51,420	SY
P-620-5.1	TEMPORARY WHITE PAINT	26,630	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,455	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	26,630	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,455	SF

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JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
COLLEGEDALE MUNICIPAL AIRPORT, FGU
COLLEGEDALE, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDS	02-11-2022	ISSUED FOR BID

C3.02

FILE NO. 36821-05

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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

N

50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET

EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
EXISTING T-HANGAR
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
EXISTING T-HANGAR
EXISTING T-HANGAR
EXISTING T-HANGAR
EXISTING BUILDING

TAXIWAY CENTERLINE MARKING
(SEE SHEET C0.06 FOR FURTHER DETAILS)
(TIE-IN TO EXISTING)

TAXIWAY CENTERLINE MARKING
(SEE SHEET C0.06 FOR FURTHER DETAILS)
(TIE-IN TO EXISTING)

NON-MOVEMENT AREA MARKINGS
(SEE SHEET C0.04B FOR FURTHER DETAILS)
(TO BE REPLACED IN ORIGINAL LOCATION)

RUNWAY THRESHOLD MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

RUNWAY NUMERAL MARKING
(SEE SHEET C0.04B FOR FURTHER DETAILS)

RUNWAY CENTERLINE MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

10'-0"

EXISTING RUNWAY 3-21

MATCH LINE - SEE SHEET C3.04

80' (TYP.) 120' (TYP.) 20'-0" 150'-0" 40'-0" 60'-0" 40'-0" 120' (TYP.) 80' (TYP.)

RUNWAY DISPLACED THRESHOLD MARKINGS
(SEE SHEET C0.04B FOR FURTHER DETAILS)

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
COLLEGEDALE MUNICIPAL AIRPORT, FGU
COLLEGEDALE, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

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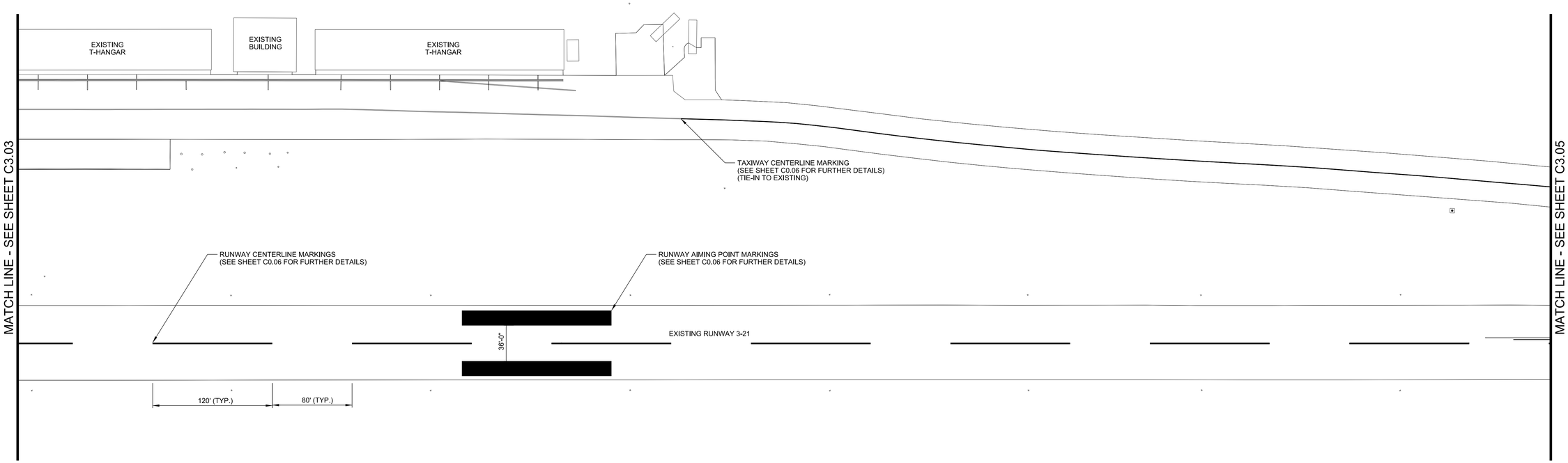
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N

50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET



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JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE

2-11-2022

AIRFIELD MARKING PLAN

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COLLEGEDALE MUNICIPAL AIRPORT, FGU
COLLEGEDALE, TENNESSEE

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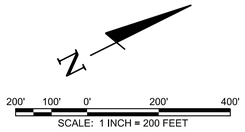
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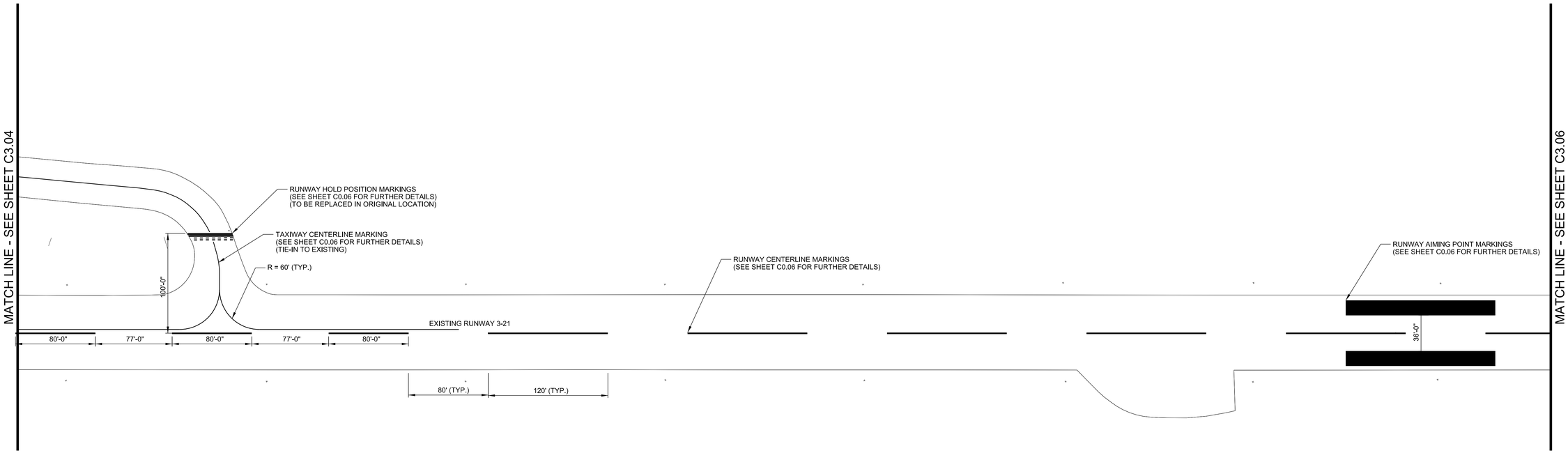
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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
COLLEGEDALE MUNICIPAL AIRPORT, FGU
COLLEGEDALE, TENNESSEE

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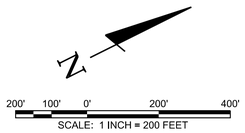
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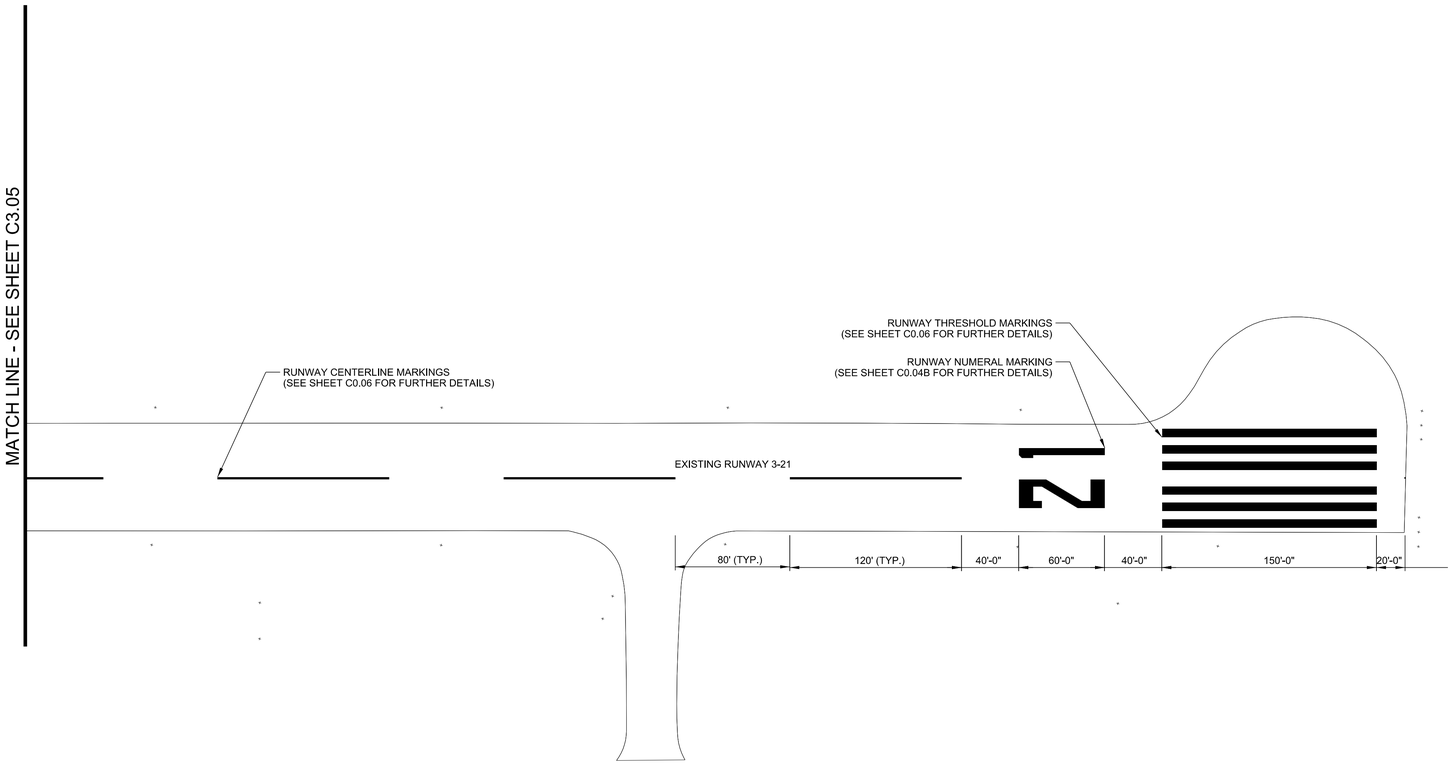
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2-11-2022

AIRFIELD MARKING PLAN

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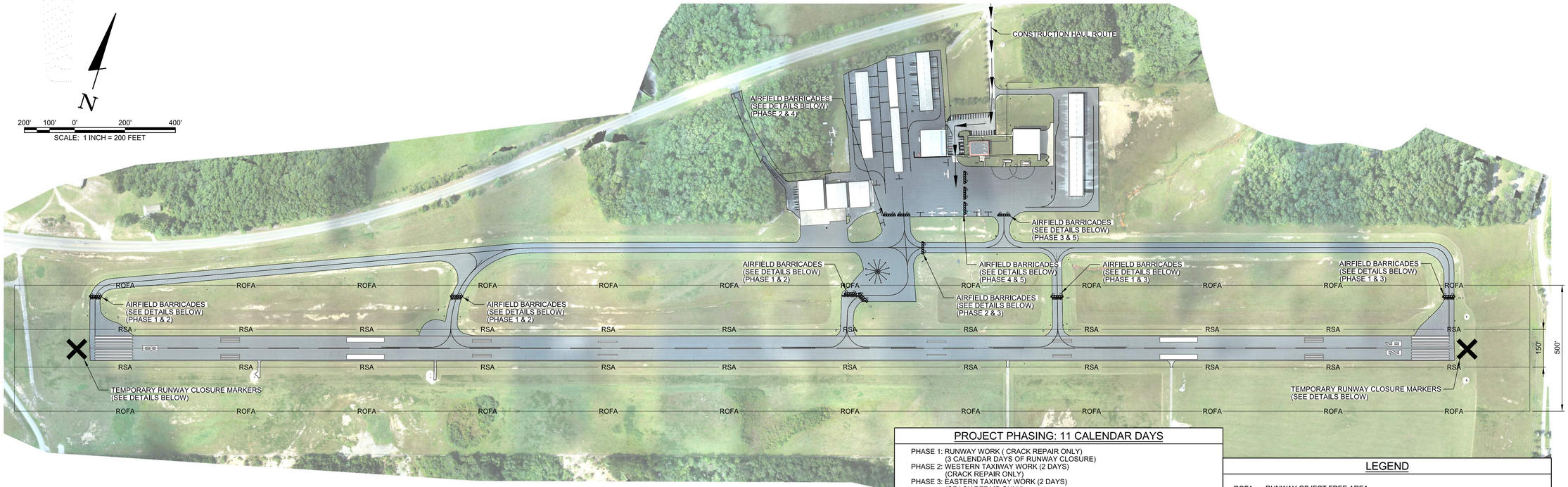
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PROJECT PHASING: 11 CALENDAR DAYS

PHASE 1: RUNWAY WORK (CRACK REPAIR ONLY)
(3 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: WESTERN TAXIWAY WORK (2 DAYS)
(CRACK REPAIR ONLY)
PHASE 3: EASTERN TAXIWAY WORK (2 DAYS)
(CRACK REPAIR ONLY)
PHASE 4: WESTERN MAIN APRON & T-HANGAR WORK (2 DAYS)
(CRACK REPAIR ONLY)
PHASE 5: EASTERN MAIN APRON & T-HANGAR WORK (2 DAYS)
(CRACK REPAIR ONLY)

LEGEND

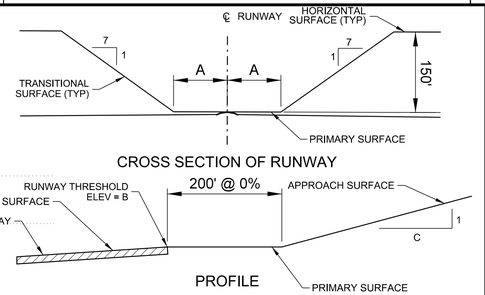
—ROFA— RUNWAY OBJECT FREE AREA

CONSTRUCTION HAUL ROUTE

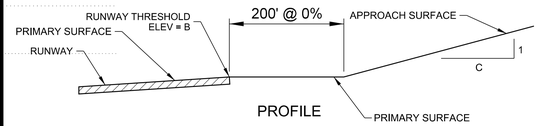
— RSA— RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.70. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.70 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 8-26 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 8-26 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
8	500'	1880.9'	20
26	500'	1866.5'	20

FAR PART 77 SURFACES

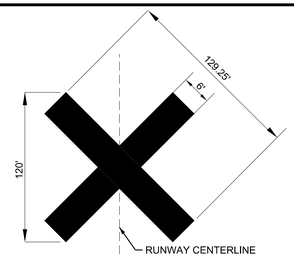
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 8-26	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C4.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
GREG LIVINGSTON
2409 SPARTA HIGHWAY, CROSSVILLE, TN 38572
(931) 484-5278

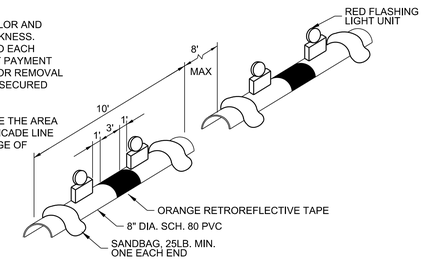
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

CROSSVILLE POLICE DEPARTMENT:
(931) 484-7231

CROSSVILLE FIRE DEPARTMENT:
(931) 484-6144

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C4.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
CROSSVILLE MEMORIAL AIRPORT, CSV
CROSSVILLE, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

ISSUED FOR BID

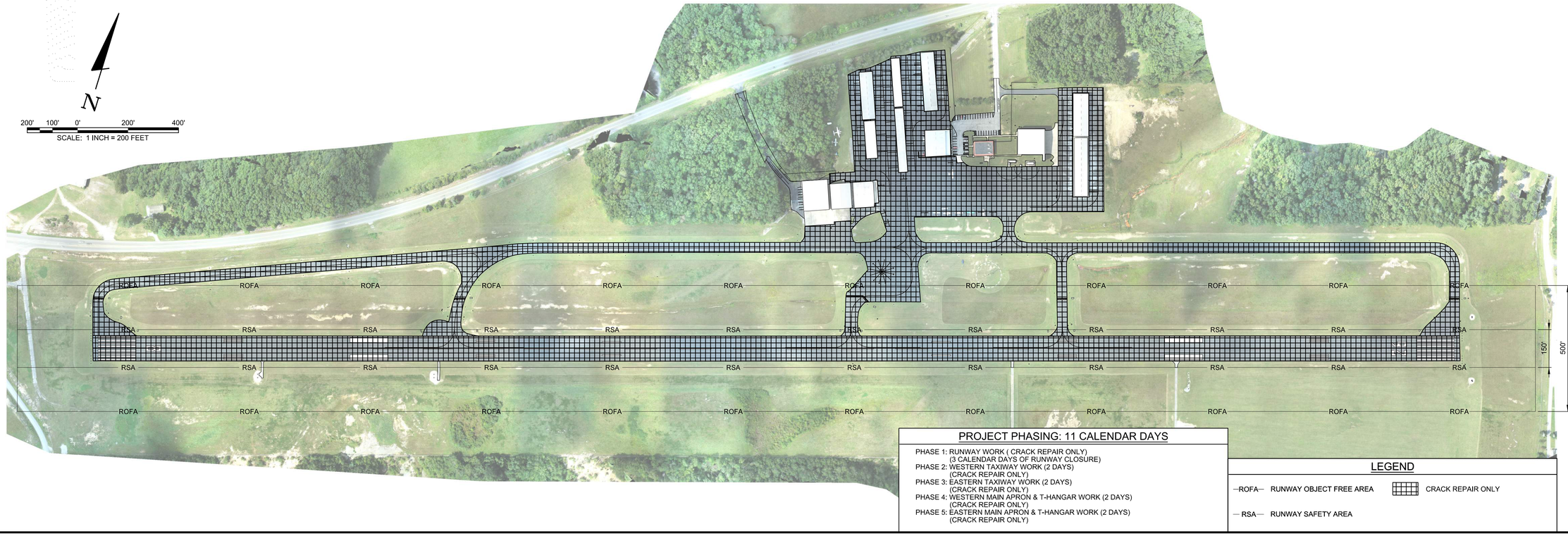
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PROJECT PHASING: 11 CALENDAR DAYS

PHASE 1: RUNWAY WORK (CRACK REPAIR ONLY)
(3 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: WESTERN TAXIWAY WORK (2 DAYS)
(CRACK REPAIR ONLY)
PHASE 3: EASTERN TAXIWAY WORK (2 DAYS)
(CRACK REPAIR ONLY)
PHASE 4: WESTERN MAIN APRON & T-HANGAR WORK (2 DAYS)
(CRACK REPAIR ONLY)
PHASE 5: EASTERN MAIN APRON & T-HANGAR WORK (2 DAYS)
(CRACK REPAIR ONLY)

LEGEND

—ROFA— RUNWAY OBJECT FREE AREA

CRACK REPAIR ONLY

— RSA — RUNWAY SAFETY AREA

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	71,236	LF
P-101-5.2	CRACK REPAIR (TYPE II)	27,411	LF

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED PROFESSIONAL ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
CROSSVILLE MEMORIAL AIRPORT, CSV
CROSSVILLE, TENNESSEE

REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

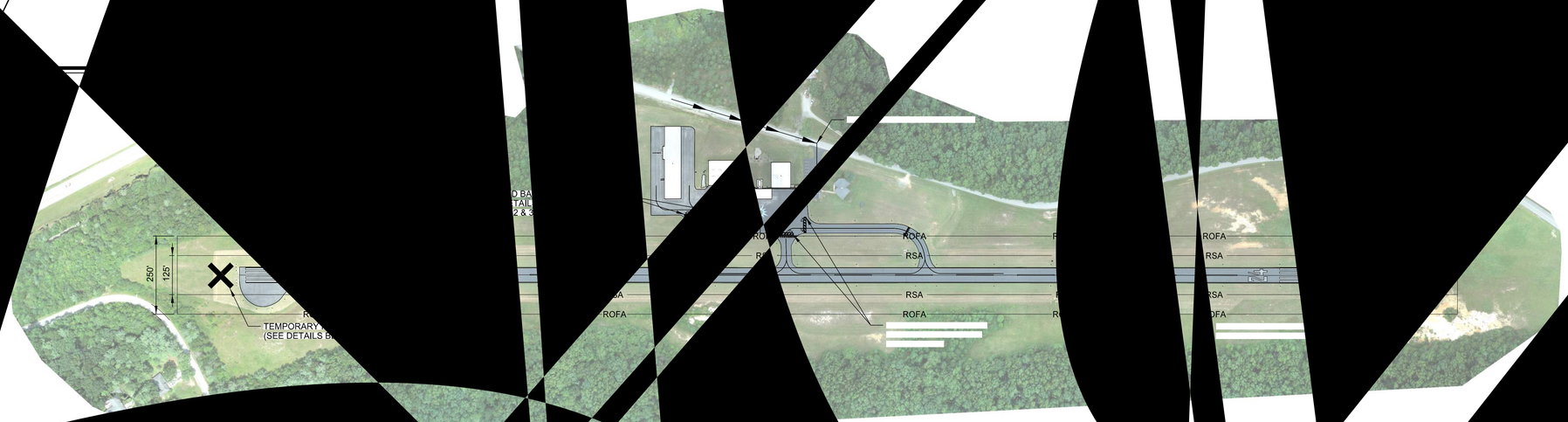
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PROJECT PHASING: CALENDAR DAYS

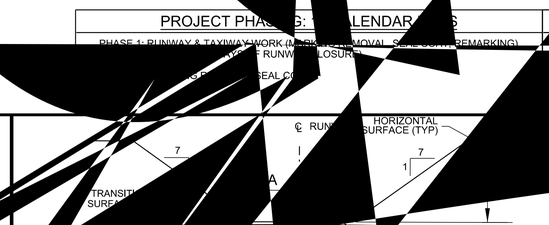
PHASE 1: RUNWAY & TAXIWAY WORK (MARKING REMOVAL, SEALCOAT, REMARKING)

- RUNWAY CLOSURE
- SEALCOAT

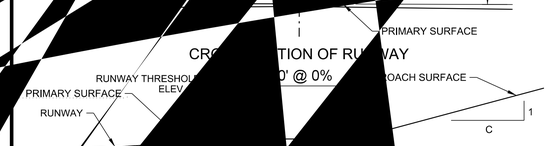
RUNWAY OBJECT FREE AREA

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31. CONTRACTOR TO PROTECT AND PROTECT ALL EXISTING UTILITIES CONSTRUCTION WORK.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UPON ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDENTS AND KEY PERSONNEL CONTACTING RADIO CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY 122.95. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ON THE UNICOM FREQUENCY. ON THE UNICOM OR OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRCRAFT WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY OR WITHIN THE AIRPORT CLOSED.
34. THE CONTRACTOR SHALL DOCUMENT AS-BUILT CONDITIONS AND PROVIDE PAVEMENT CONDITIONS. BE ASSUMED BY THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WITHIN 62.5' OF THE RUNWAY CENTERLINE. OR STORED WITHIN 125' OF THE RUNWAY'S CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED ON TAXIWAY ALPHA'S CENTERLINE. NO EQUIPMENT WILL BE ALLOWED ON TAXIWAY ALPHA'S CENTERLINE.



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0' @ 0%

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RUNWAY	SAFETY AREA WIDTH*
	125'

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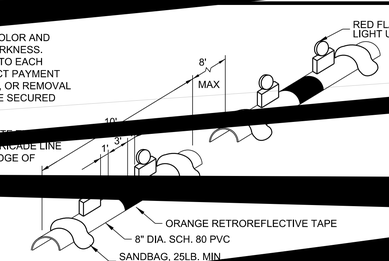
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TO BE PA NRICADE LINE
SHALL EXTEND TO 10' OFF THE EDGE OF
DE OF ANY PAVEMENT.



(931) 598-1111

SEWANEE VOLUNTEER FIRE DEPARTMENT:
(931) 598-1111

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY



2-11-2022

CONSTRUCTION SAFETY & PHAS

AIRFIELD PAVEMENT AND MARKING MAI

FRANKLIN COUNTY AIRP

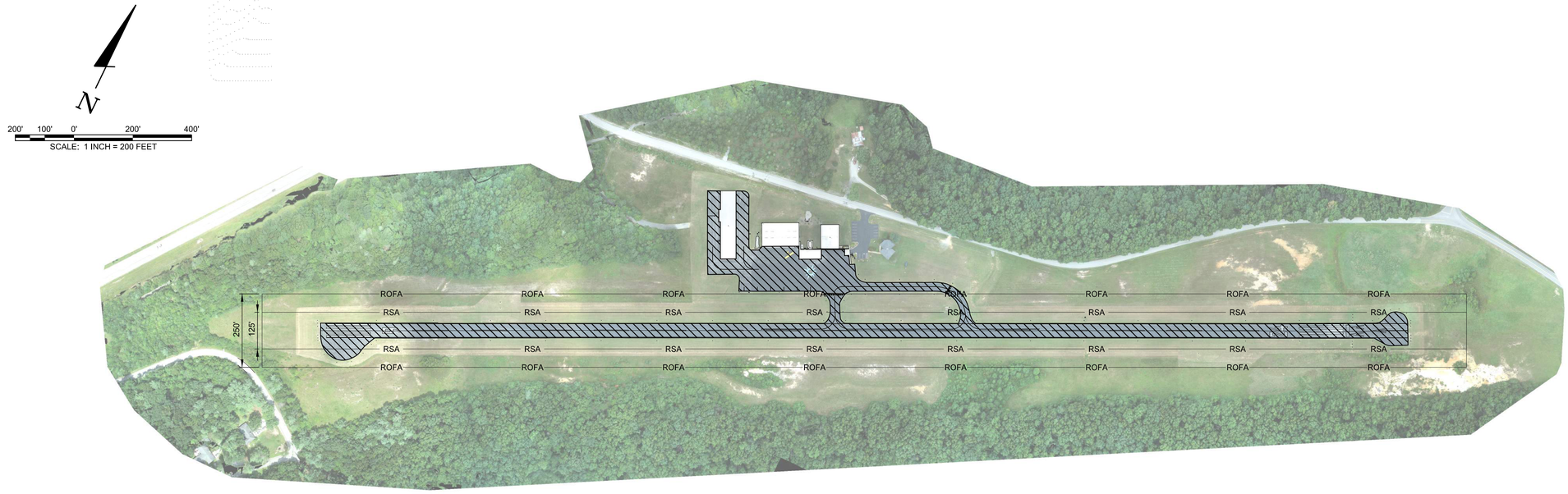
SEWANEE, TENNESSEE

REV.	DESCRIPTION	DATE
	INCORPORATION	
	ISSUED FOR BID	02-11-2022

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PROJECT PHASING: 11 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY & TAXIWAY WORK (MARKING REMOVAL, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: WESTERN T-HANGAR WORK (2 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING) PHASE 3: MAIN APRON WORK (2 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING)	—ROFA— RUNWAY OBJECT FREE AREA — RSA— RUNWAY SAFETY AREA CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	7,750	LF
P-101-5.2	CRACK REPAIR (TYPE II)	13,100	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	27,900	SF
P-101-5.4	CRACK REPAIR (TYPE III)	2,625	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	32,735	SY
P-620-5.1	TEMPORARY WHITE PAINT	12,715	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,450	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	12,715	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,450	SF

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 254-8572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
FRANKLIN COUNTY AIRPORT, UOS
SEWANEE, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

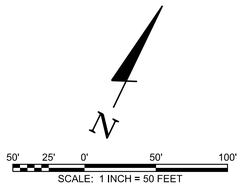
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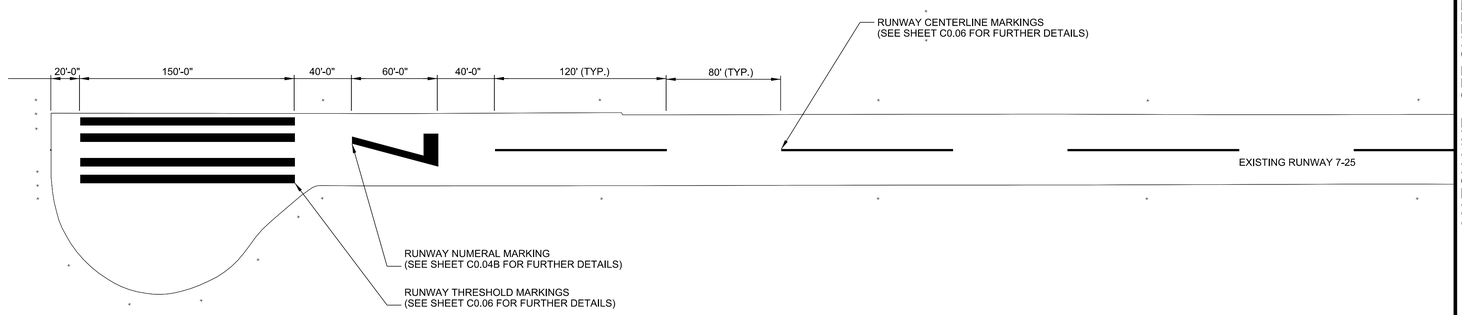
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



MATCH LINE - SEE SHEET C5.04

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
FRANKLIN COUNTY AIRPORT, UOS
SEWANEE, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
NUM	JAC	JDG	02-11-2022
			ISSUED FOR BID

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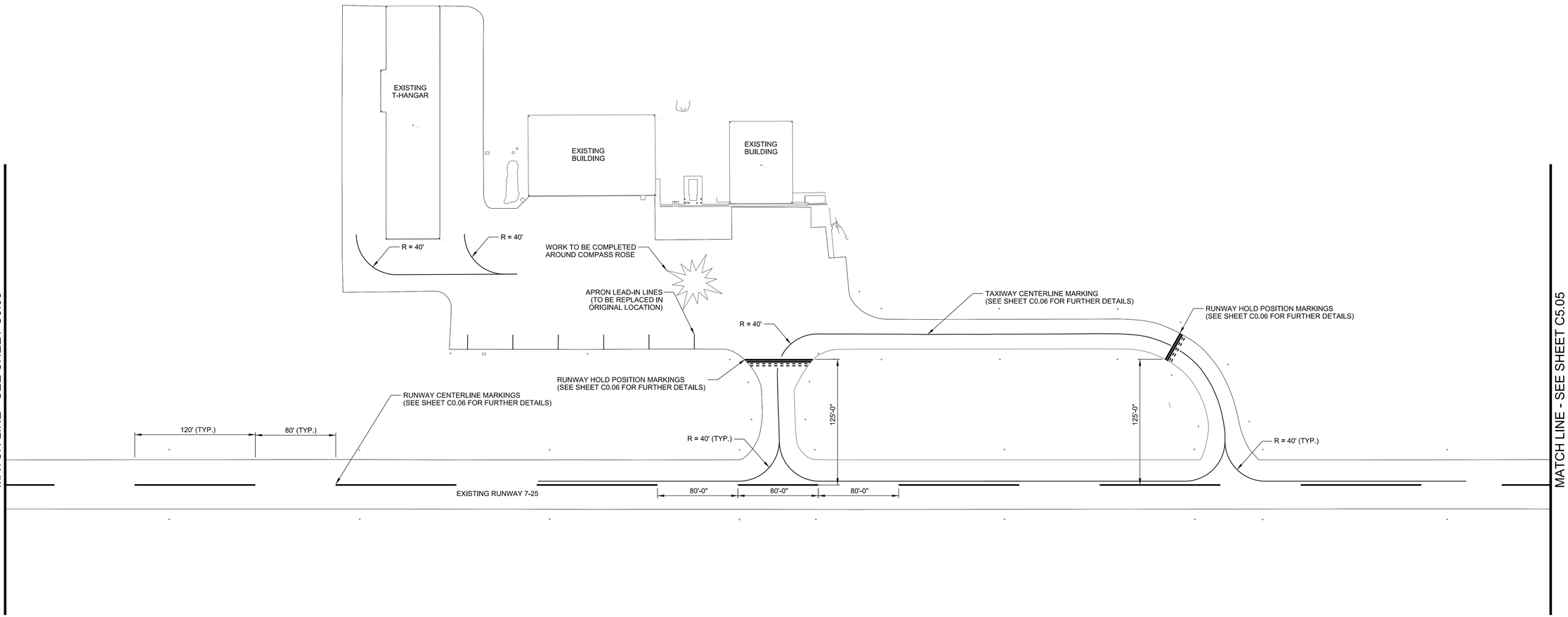
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N

50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET



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PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
FRANKLIN COUNTY AIRPORT, UOS
SEWANEE, TENNESSEE

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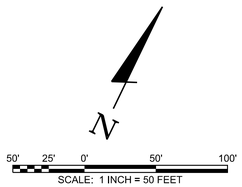
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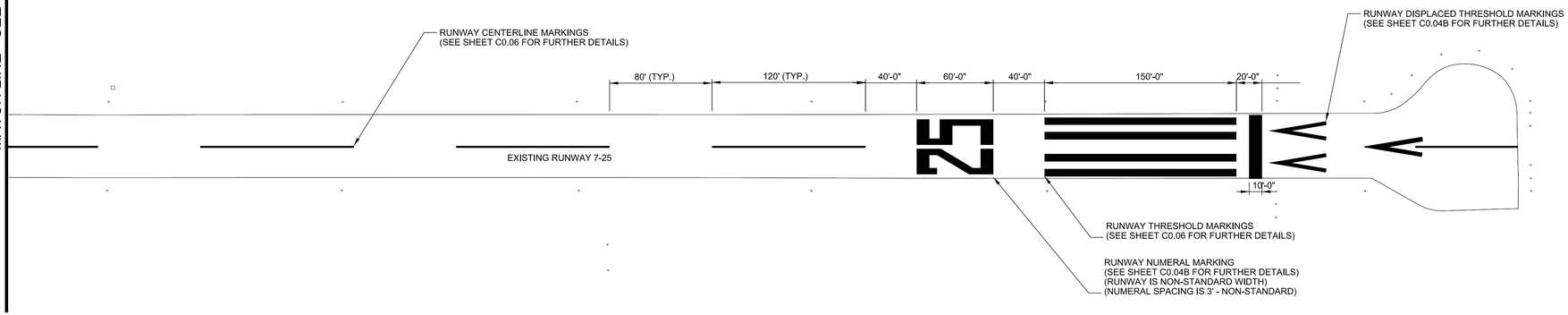
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MATCH LINE - SEE SHEET C5.04



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JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
FRANKLIN COUNTY AIRPORT, UOS
SEWANEE, TENNESSEE

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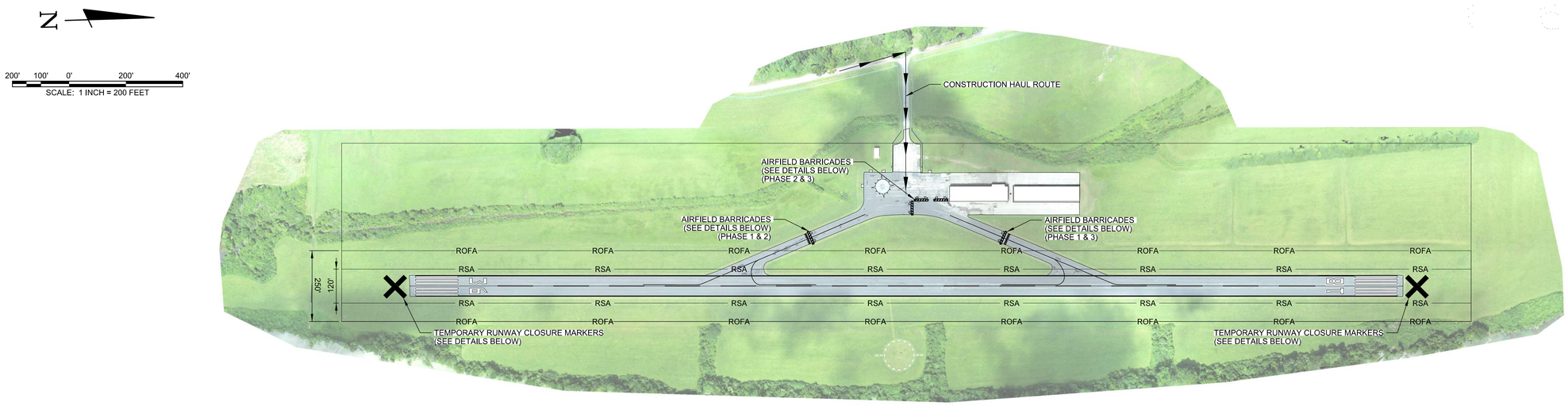
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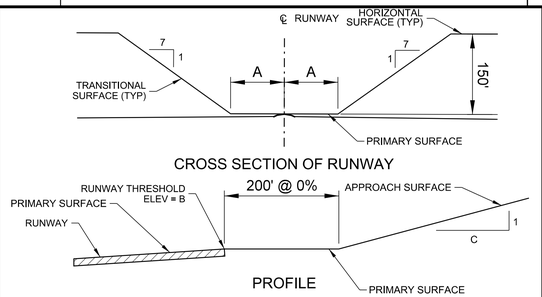
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PROJECT PHASING: 9 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY & TAXIWAY WORK (MARKING REMOVAL, SEAL COAT, REMARKING) (5 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: WESTERN T-HANGAR WORK (2 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING) PHASE 3: EASTERN T-HANGAR WORK (2 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING)	ROFA — RUNWAY OBJECT FREE AREA CONSTRUCTION HAUL ROUTE RSA — RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.90. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.90 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 60' OF THE PRIMARY RUNWAY 18-36 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 125' OF THE PRIMARY RUNWAY 18-36 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY

PROFILE

RUNWAY END	A	B	C
18	250'	516.98'	20
36	250'	517.01'	20

FAR PART 77 SURFACES

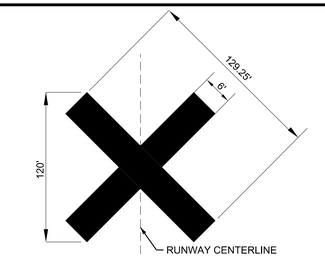
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 18-36	120'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C6.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
JIM YOUNG
153 WARD LANE, GAINESBORO, TN 38562
(931) 397-6643

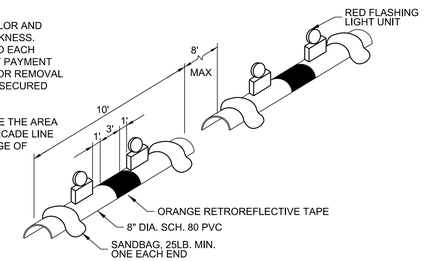
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

GAINESBORO POLICE DEPARTMENT:
(931) 268-0416

JACKSON COUNTY FIRE DEPARTMENT:
(931) 268-0001

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C6.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
JACKSON COUNTY AIRPORT, 1A7
GAINESBORO, TENNESSEE

REVISION INFORMATION			
PREV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022
			ISSUED FOR BID

C6.01

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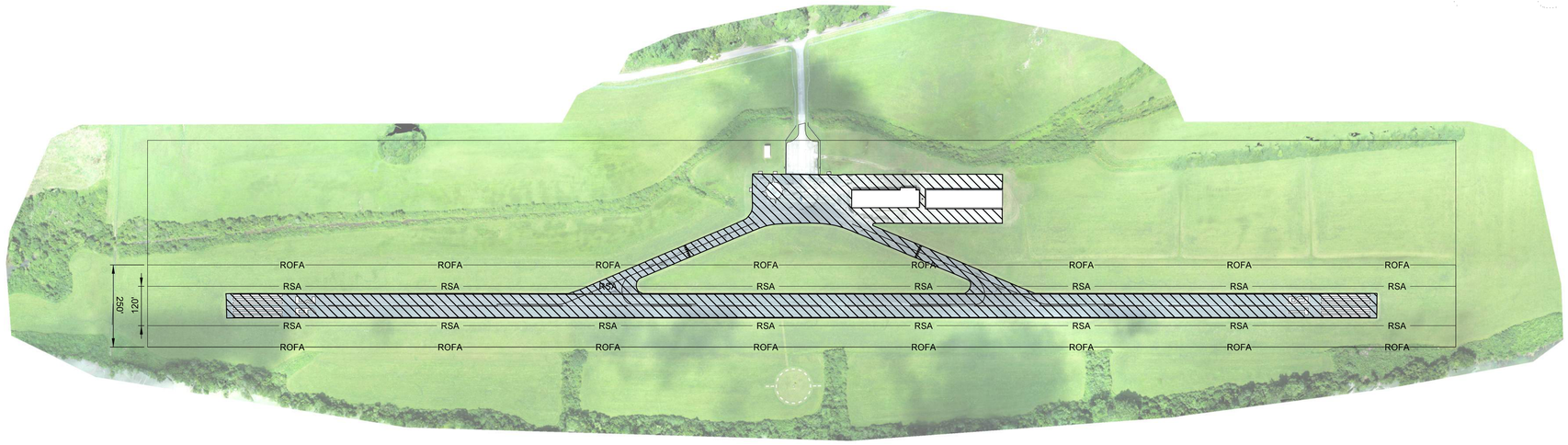
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N

200' 100' 0' 200' 400'

SCALE: 1 INCH = 200 FEET



PROJECT PHASING: 9 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY & TAXIWAY WORK (MARKING REMOVAL, SEAL COAT, REMARKING) (5 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: WESTERN T-HANGAR WORK (2 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING) PHASE 3: EASTERN T-HANGAR WORK (2 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING)	—ROFA— RUNWAY OBJECT FREE AREA — RSA— RUNWAY SAFETY AREA CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	5,232	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	36,330	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	44,175	SY
P-620-5.1	TEMPORARY WHITE PAINT	15,475	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,580	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	15,475	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,580	SF

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REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
JACKSON COUNTY AIRPORT, 1A7
GAINESBORO, TENNESSEE

REVISION INFORMATION			
REV.	DRL	CHK	DATE
JRM	JAC	JDG	02-11-2022

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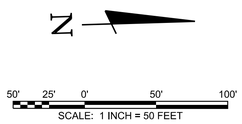
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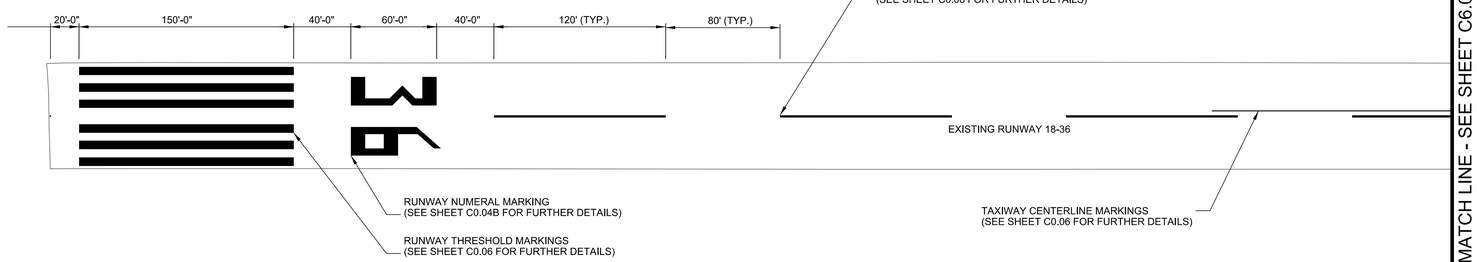
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY, NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



MATCH LINE - SEE SHEET C6.04

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REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
JACKSON COUNTY AIRPORT, 1A7
GAINESBORO, TENNESSEE

REVISION INFORMATION			
DESCRIPTION	DATE	CHK.	DR.
ISSUED FOR BID	02-11-2022	JDG	JAC

REV.	DR.	CHK.
JRM	JAC	JDG

C6.03

FILE NO. 36821-05

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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
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N

50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET

EXISTING BUILDING

EXISTING T-HANGAR

EXISTING T-HANGAR

RUNWAY HOLD POSITION MARKINGS (SEE SHEET C0.06 FOR FURTHER DETAILS)

RUNWAY HOLD POSITION MARKINGS (SEE SHEET C0.06 FOR FURTHER DETAILS)

R = 75'

R = 75'

125'-0"

TAXIWAY CENTERLINE MARKINGS (SEE SHEET C0.06 FOR FURTHER DETAILS)

78'-6" 80'-0" 78'-6"

EXISTING RUNWAY 18-36

125'-0"

R = 75'

R = 75'

RUNWAY CENTERLINE MARKINGS (SEE SHEET C0.06 FOR FURTHER DETAILS)

MATCH LINE - SEE SHEET C6.03

MATCH LINE - SEE SHEET C6.05

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JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
JACKSON COUNTY AIRPORT, 1A7
GAINESBORO, TENNESSEE

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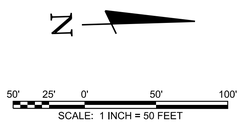
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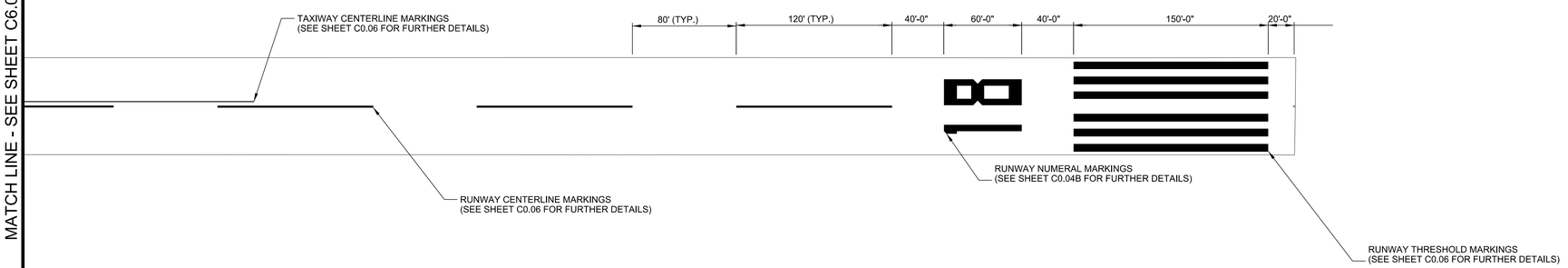
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JEREMY GREEN
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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
JACKSON COUNTY AIRPORT, 1A7
GAINESBORO, TENNESSEE

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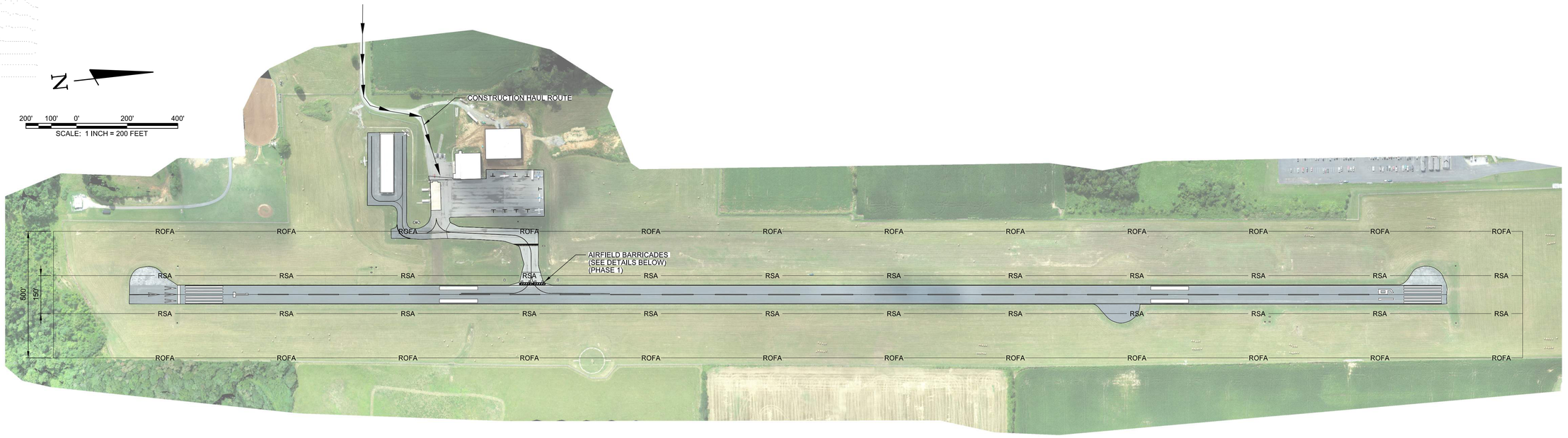
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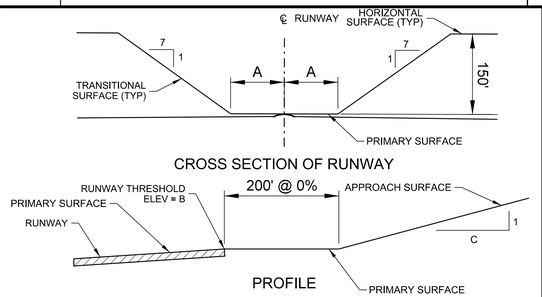
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PROJECT PHASING: 5 CALENDAR DAYS	LEGEND
PHASE 1: MAIN APRON, TAXIWAY, & T-HANGAR WORK (5 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING) (0 CALENDAR DAYS OF RUNWAY CLOSURE)	ROFA — RUNWAY OBJECT FREE AREA RSA — RUNWAY SAFETY AREA CONSTRUCTION HAUL ROUTE

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OF ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 1-19 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 1-19 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY

PROFILE

RUNWAY END	A	B	C
1	250'	945.4'	34
19	250'	969.7'	34

FAR PART 77 SURFACES

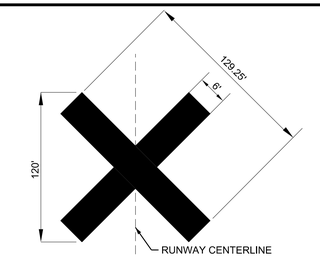
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 1-19	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C7.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
RICHARD THOMAS
1000 AIRPORT RD, LAFAYETTE, TN 37083
(615) 666-6542

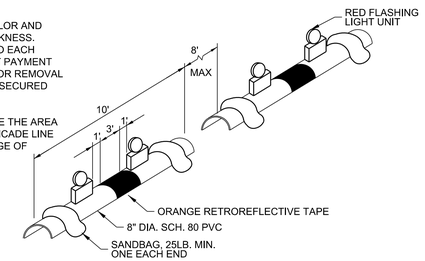
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

LAFAYETTE POLICE DEPARTMENT:
(615) 666-4725

LAFAYETTE FIRE DEPARTMENT:
(615) 666-2190

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C7.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LAFAYETTE MUNICIPAL AIRPORT, 3M7
LAFAYETTE, TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

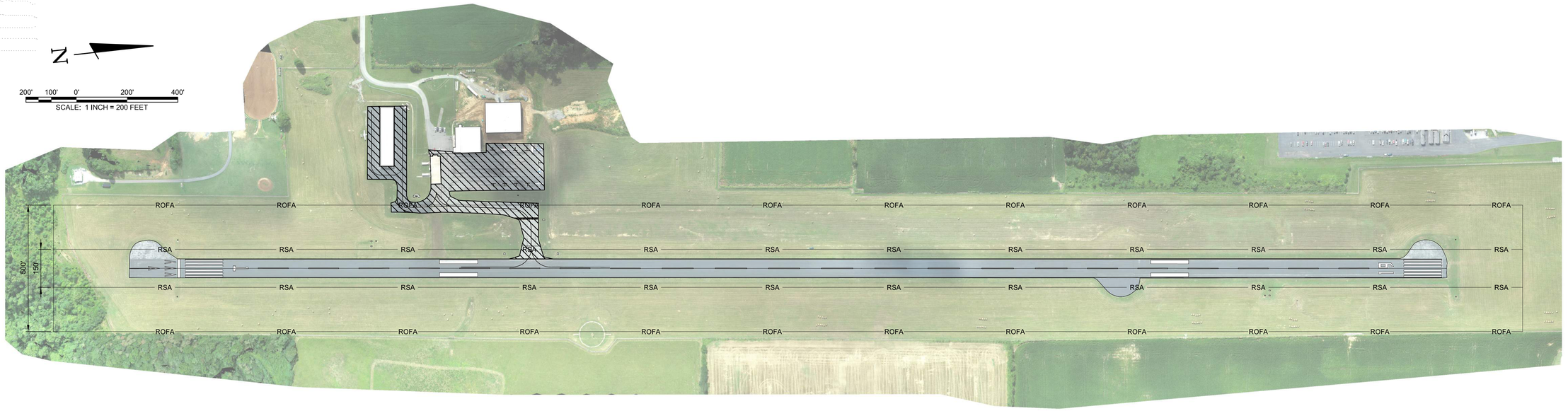
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PROJECT PHASING: 5 CALENDAR DAYS	LEGEND
PHASE 1: MAIN APRON, TAXIWAY, & T-HANGAR WORK (5 DAYS) (MARKING REMOVAL, SEAL COAT, REMARKING) (0 CALENDAR DAYS OF RUNWAY CLOSURE)	—ROFA— RUNWAY OBJECT FREE AREA — RSA— RUNWAY SAFETY AREA CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	2,875	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	1,790	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	16,705	SY
P-620-5.2	TEMPORARY YELLOW PAINT	1,790	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,790	SF

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LAFAYETTE MUNICIPAL AIRPORT, 3M7
LAFAYETTE, TENNESSEE

REVISION INFORMATION			
REV.	DRL	CHK	DATE
JRM	JAC	JDG	02-11-2022

ISSUED FOR BID

C7.02

FILE NO. 36821-05

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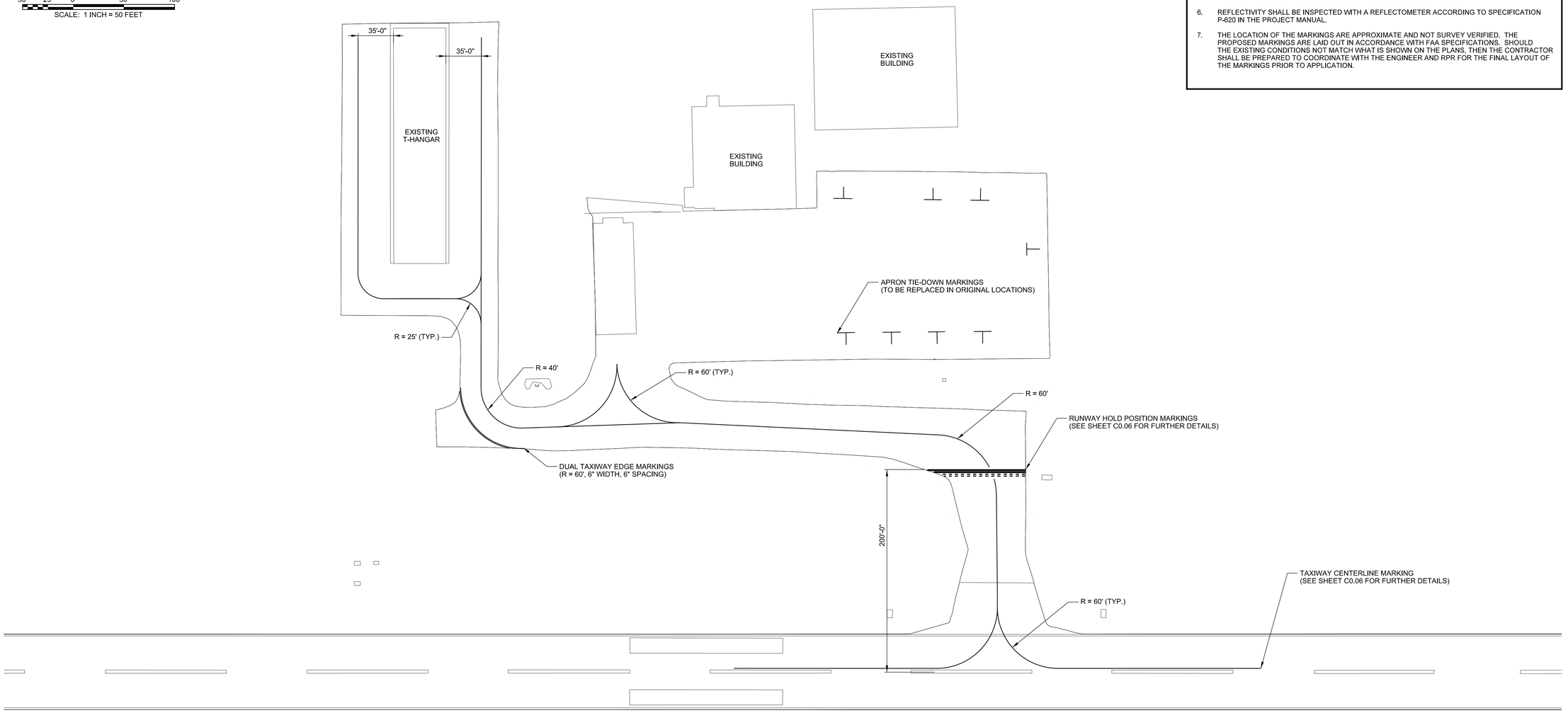
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N

50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET



NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

BARGE DESIGN SOLUTIONS
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JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LAFAYETTE MUNICIPAL AIRPORT, 3M7
LAFAYETTE, TENNESSEE

REVISION INFORMATION			
REV.	DRL	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

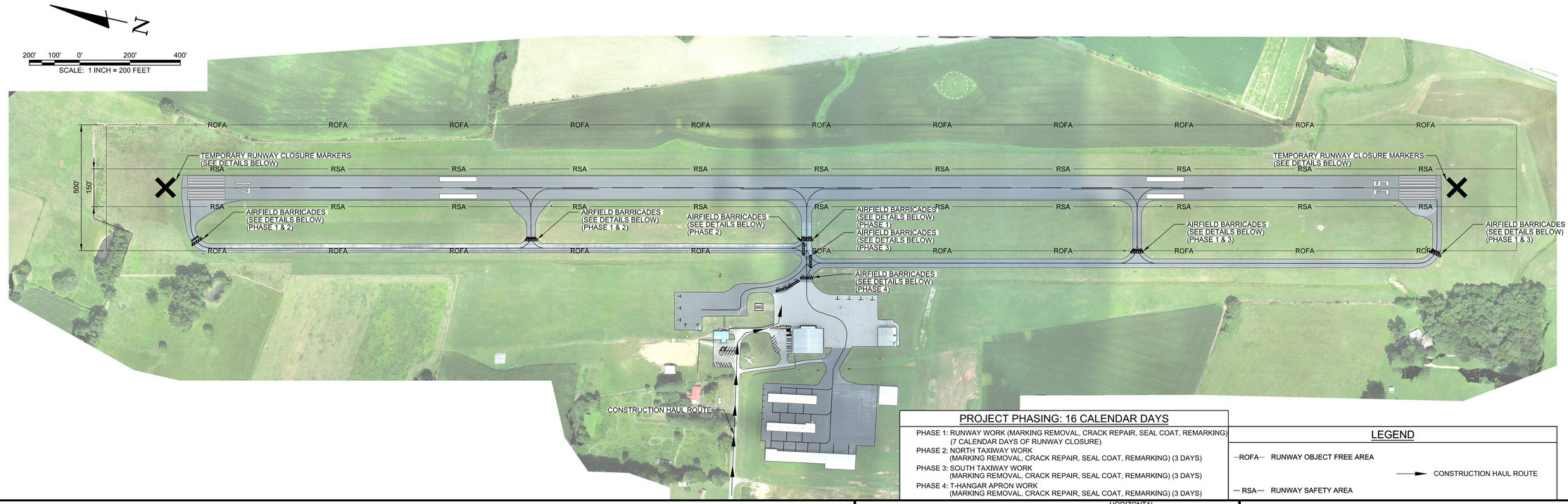
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PROJECT PHASING: 16 CALENDAR DAYS

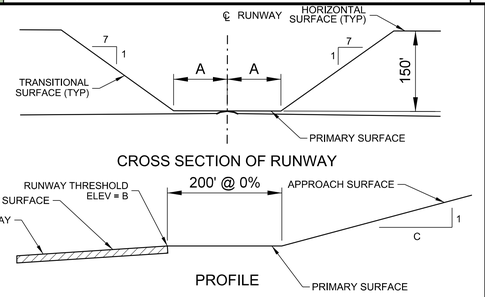
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: NORTH TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 3: SOUTH TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 4: T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

LEGEND

—ROFA— RUNWAY OBJECT FREE AREA
→ CONSTRUCTION HAUL ROUTE
— RSA— RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 17-35 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 17-35 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



RUNWAY END	A	B	C
17	250'	936.0'	34
35	250'	927.0'	20

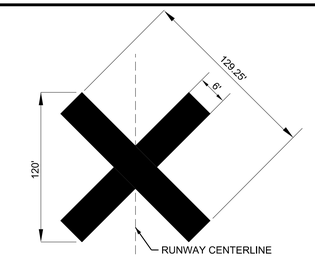
FAR PART 77 SURFACES
DRAWING NOT TO SCALE

NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 17-35	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C8.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
DOUG SMITH
4110 AIRPORT DR, LAWRENCEBURG, TN 38464
(931) 762-5133

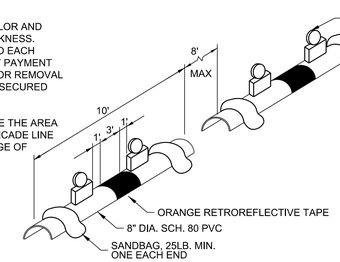
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

LAWRENCEBURG POLICE DEPARTMENT:
(931) 762-2276

LAWRENCEBURG FIRE DEPARTMENT:
(931) 762-9046

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C8.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LAWRENCEBURG-LAWRENCE COUNTY AIRPORT, 2M2
LAWRENCEBURG, TENNESSEE

REV.	DR.	CHK.	DATE	REVISION DESCRIPTION
	JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

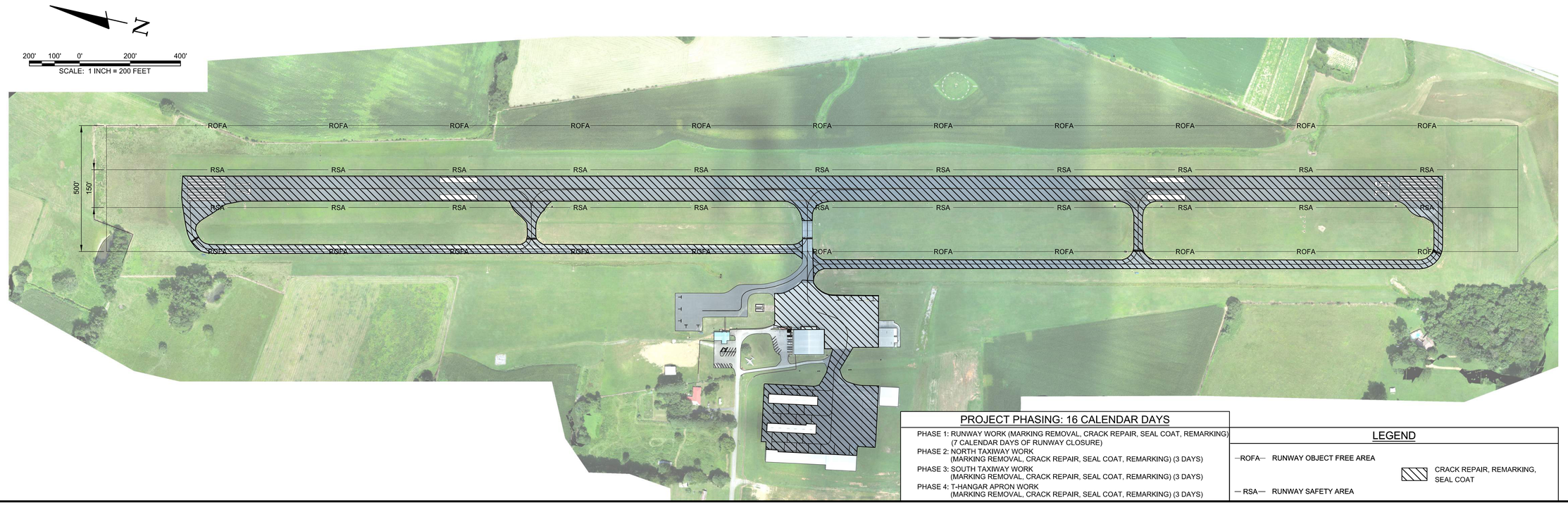
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PROJECT PHASING: 16 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: NORTH TAXIWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 3: SOUTH TAXIWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 4: T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

LEGEND

—ROFA— RUNWAY OBJECT FREE AREA
— RSA— RUNWAY SAFETY AREA
CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	75,623	LF
P-101-5.2	CRACK REPAIR (TYPE II)	11,190	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	68,810	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	102,220	SY
P-620-5.1	TEMPORARY WHITE PAINT	31,930	SF
P-620-5.2	TEMPORARY YELLOW PAINT	6,030	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	31,930	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	6,030	SF

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No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LAWRENCEBURG-LAWRENCE COUNTY AIRPORT, 2M2
LAWRENCEBURG, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION: ISSUED FOR BID

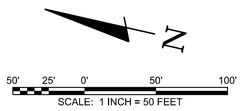
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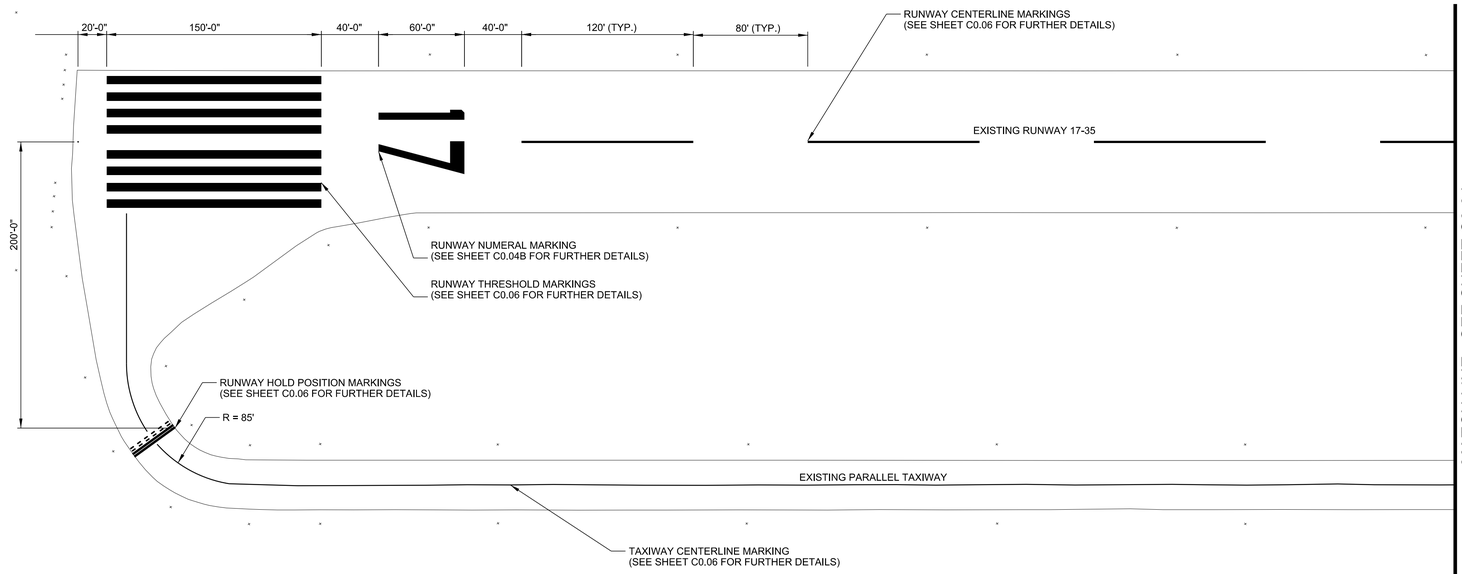
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



MATCH LINE - SEE SHEET C8.04

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED PROFESSIONAL ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LAWRENCEBURG-LAWRENCE COUNTY AIRPORT, 2M2
LAWRENCEBURG, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
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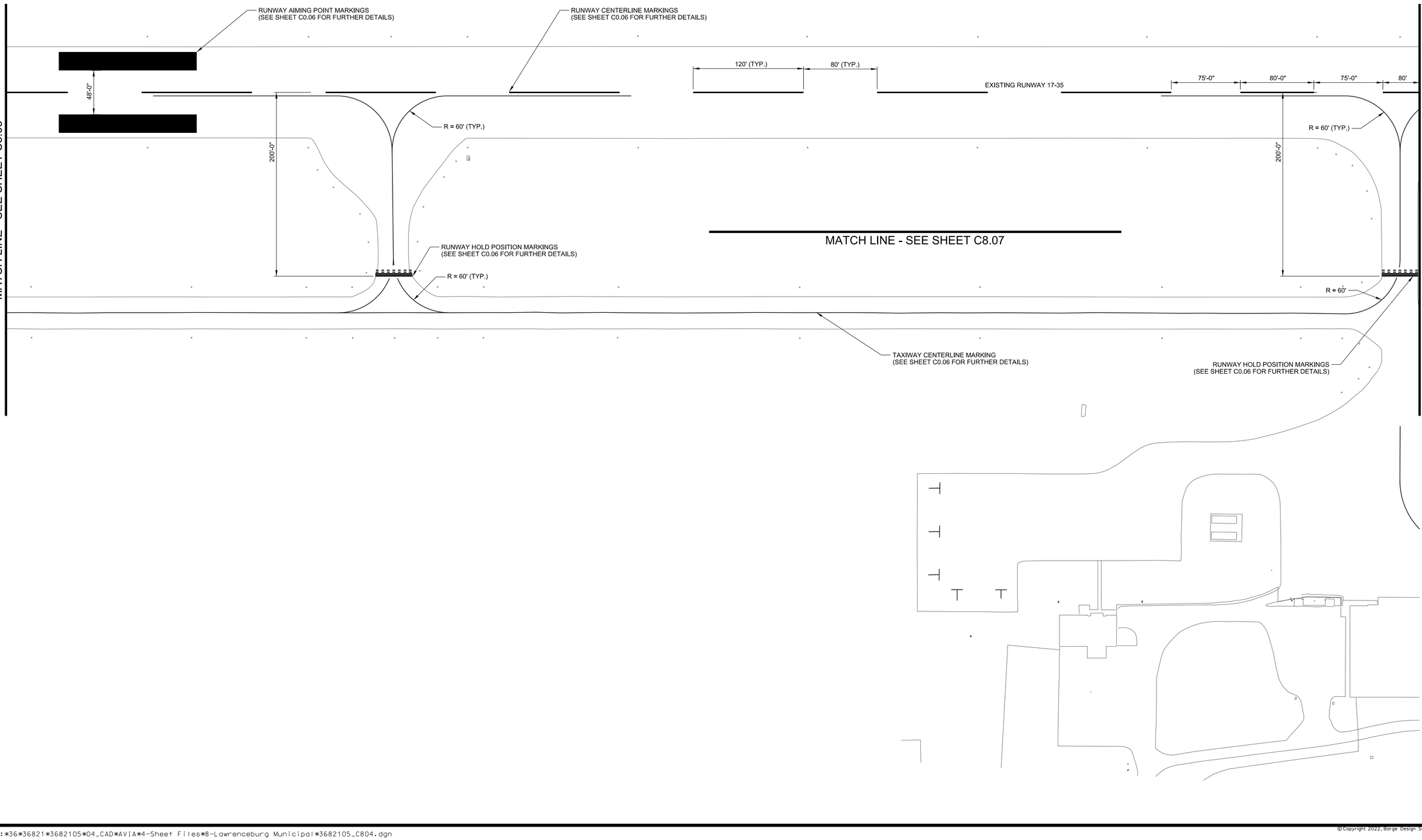
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50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET



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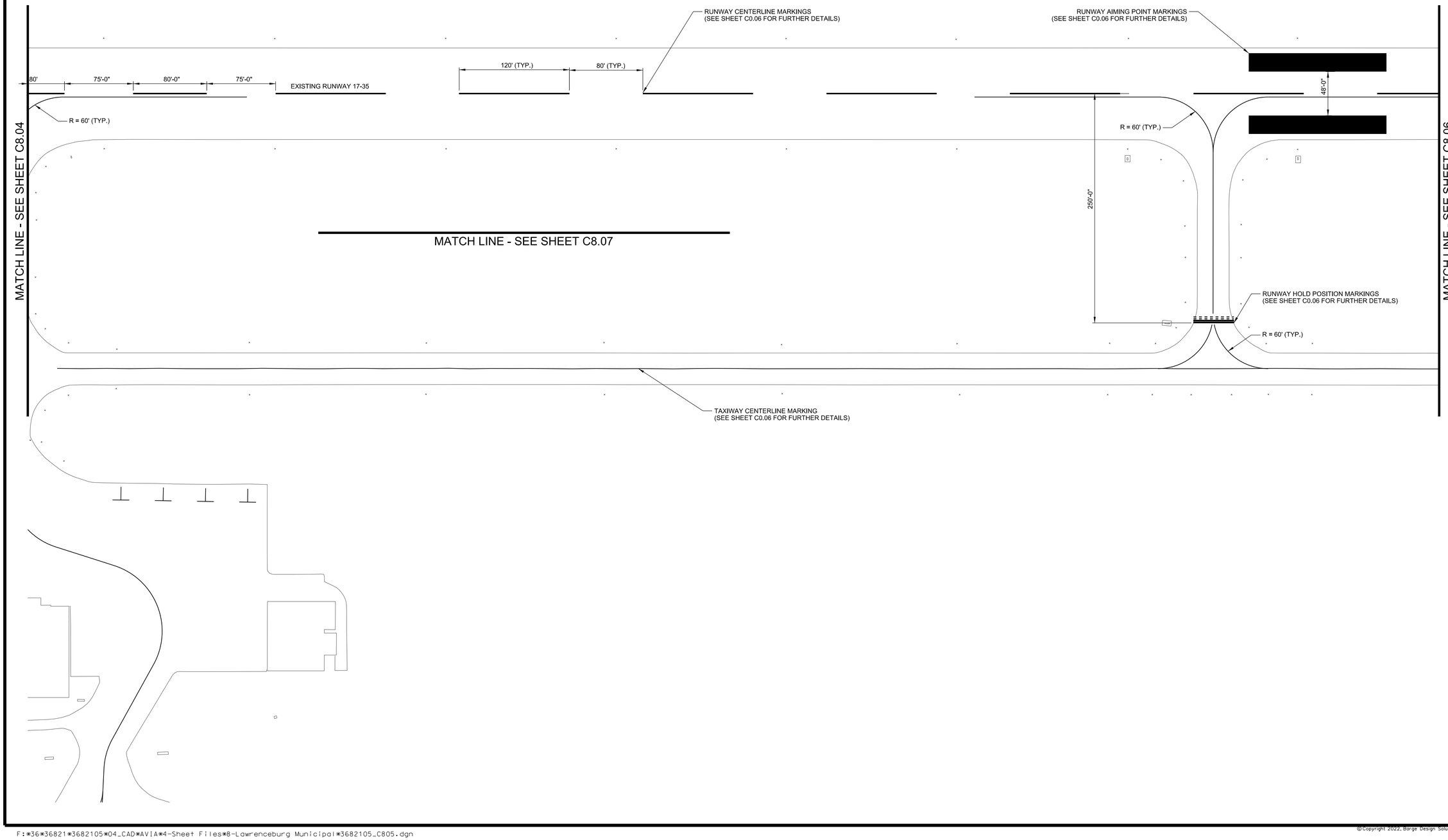
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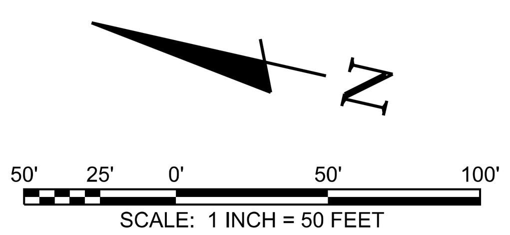
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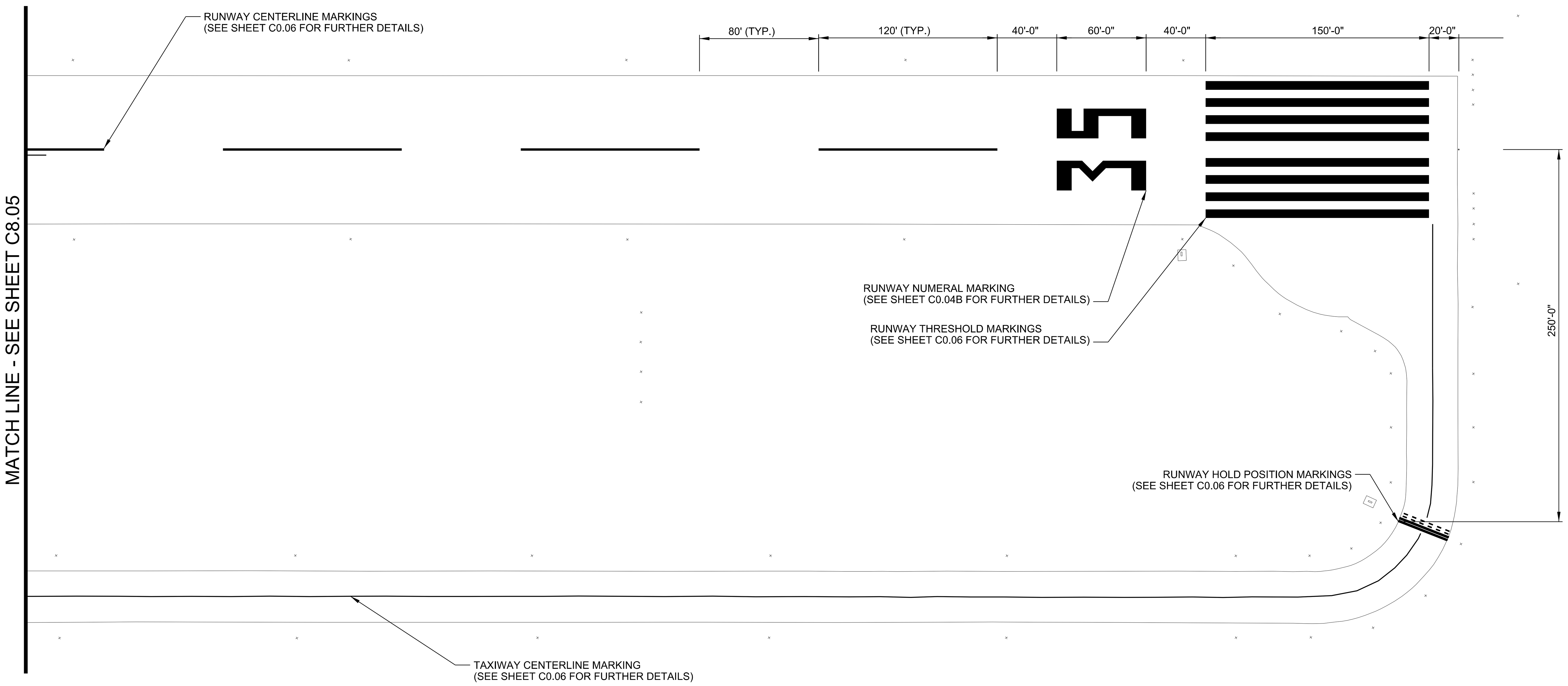
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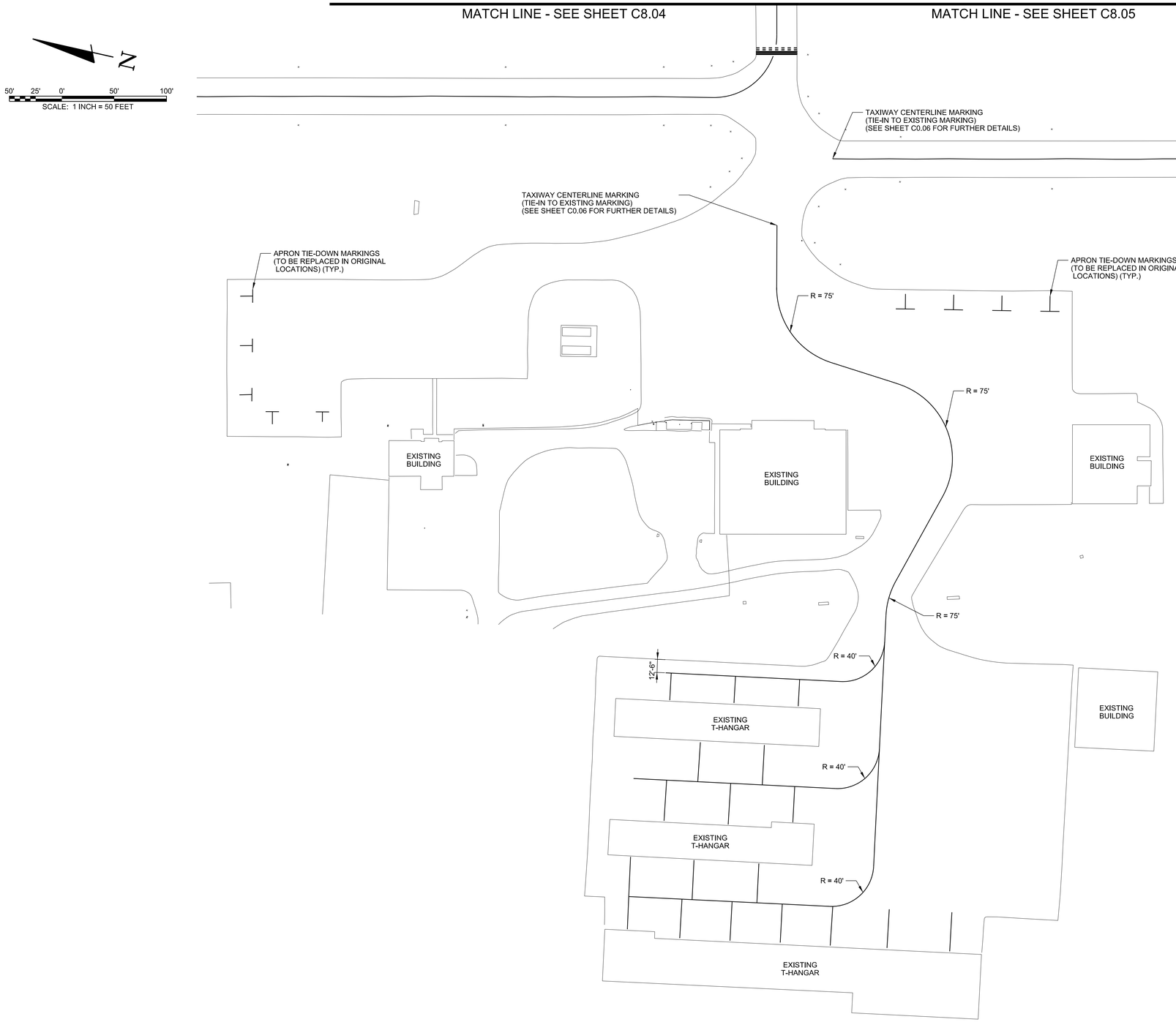
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STATE OF TENNESSEE
2-11-2022

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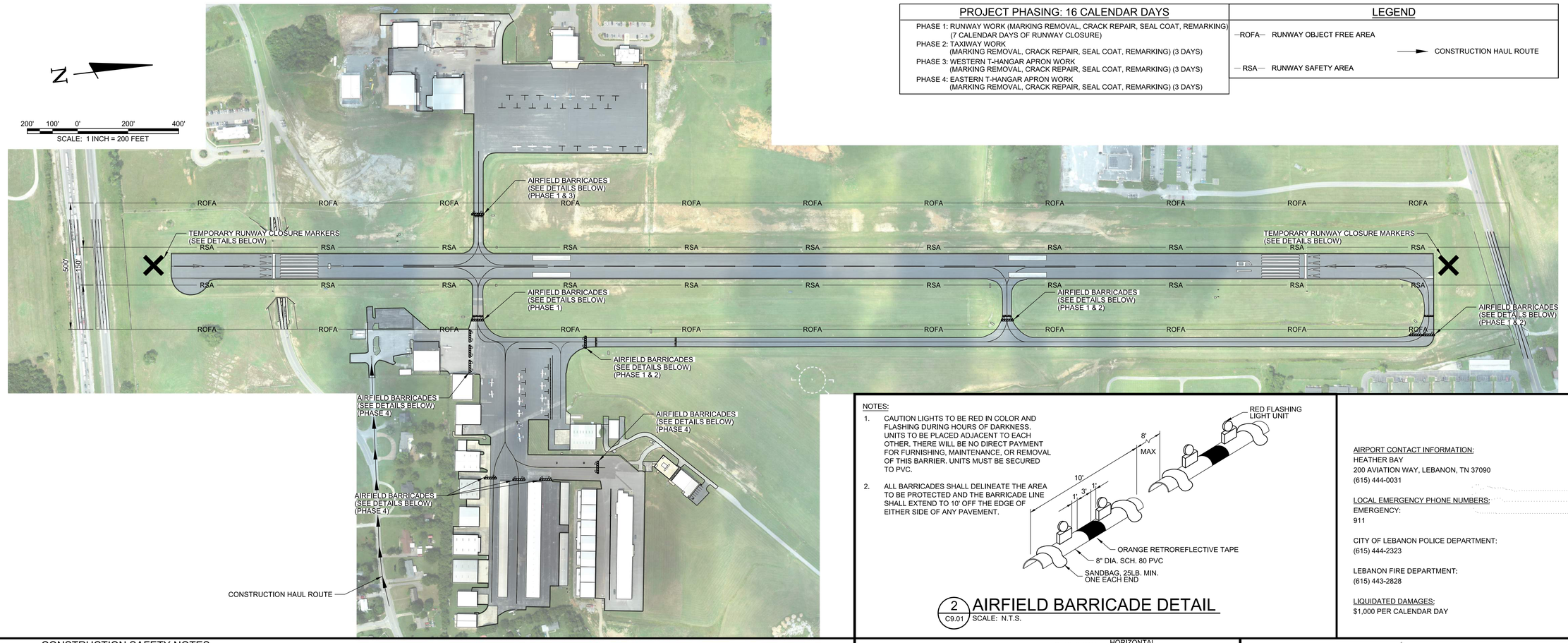
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PROJECT PHASING: 16 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: TAXIWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS) PHASE 3: WESTERN T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS) PHASE 4: EASTERN T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA → CONSTRUCTION HAUL ROUTE — RSA — RUNWAY SAFETY AREA



NOTES:

1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.

2 C9.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
HEATHER BAY
200 AVIATION WAY, LEBANON, TN 37090
(615) 444-0031

LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

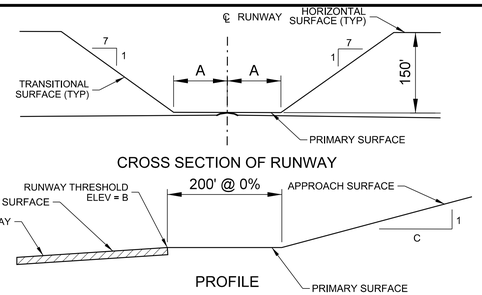
CITY OF LEBANON POLICE DEPARTMENT:
(615) 444-2323

LEBANON FIRE DEPARTMENT:
(615) 443-2828

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.725. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.725 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 1-19 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 1-19 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



RUNWAY END	A	B	C
1	250'	588.0'	34
19	250'	549.7'	34

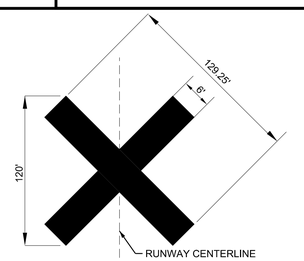
FAR PART 77 SURFACES
DRAWING NOT TO SCALE

NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 1-19	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:

1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 C9.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

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JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LEBANON MUNICIPAL AIRPORT, M54
LEBANON, TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

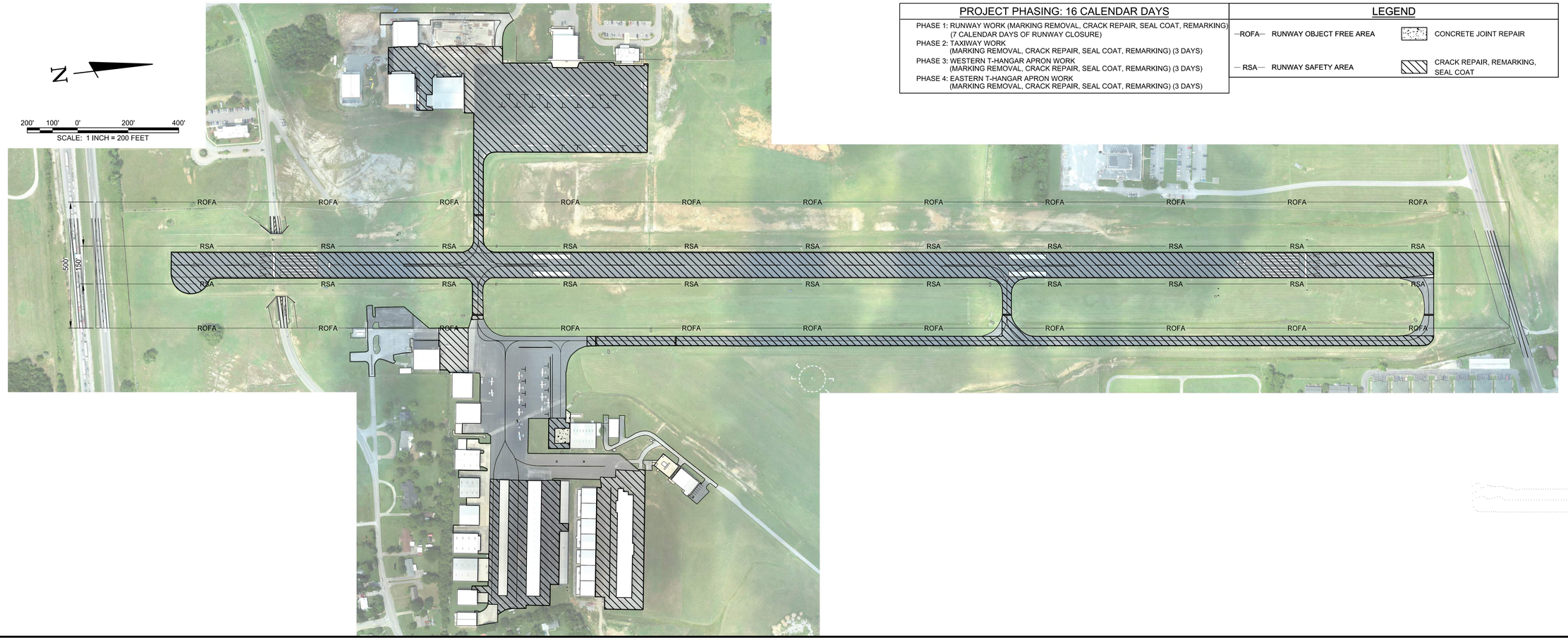
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PROJECT PHASING: 16 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 3: WESTERN T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 4: EASTERN T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

LEGEND

ROFA — RUNWAY OBJECT FREE AREA
RSA — RUNWAY SAFETY AREA
CONCRETE JOINT REPAIR
CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	46,377	LF
P-101-5.2	CRACK REPAIR (TYPE II)	1,888	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	68,795	SF
P-605-5.1	JOINT SEALING FILLER	125	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	131,200	SY
P-620-5.1	TEMPORARY WHITE PAINT	35,545	SF
P-620-5.2	TEMPORARY YELLOW PAINT	5,430	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	35,545	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	5,430	SF

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JEREMY GREEN
REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LEBANON MUNICIPAL AIRPORT, M54
LEBANON, TENNESSEE

REVISION INFORMATION

NO.	DESCRIPTION	DATE	CHK.	DR.	REV.
	ISSUED FOR BID	02-11-2022	JDG	JAC	JRM

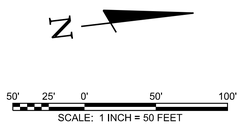
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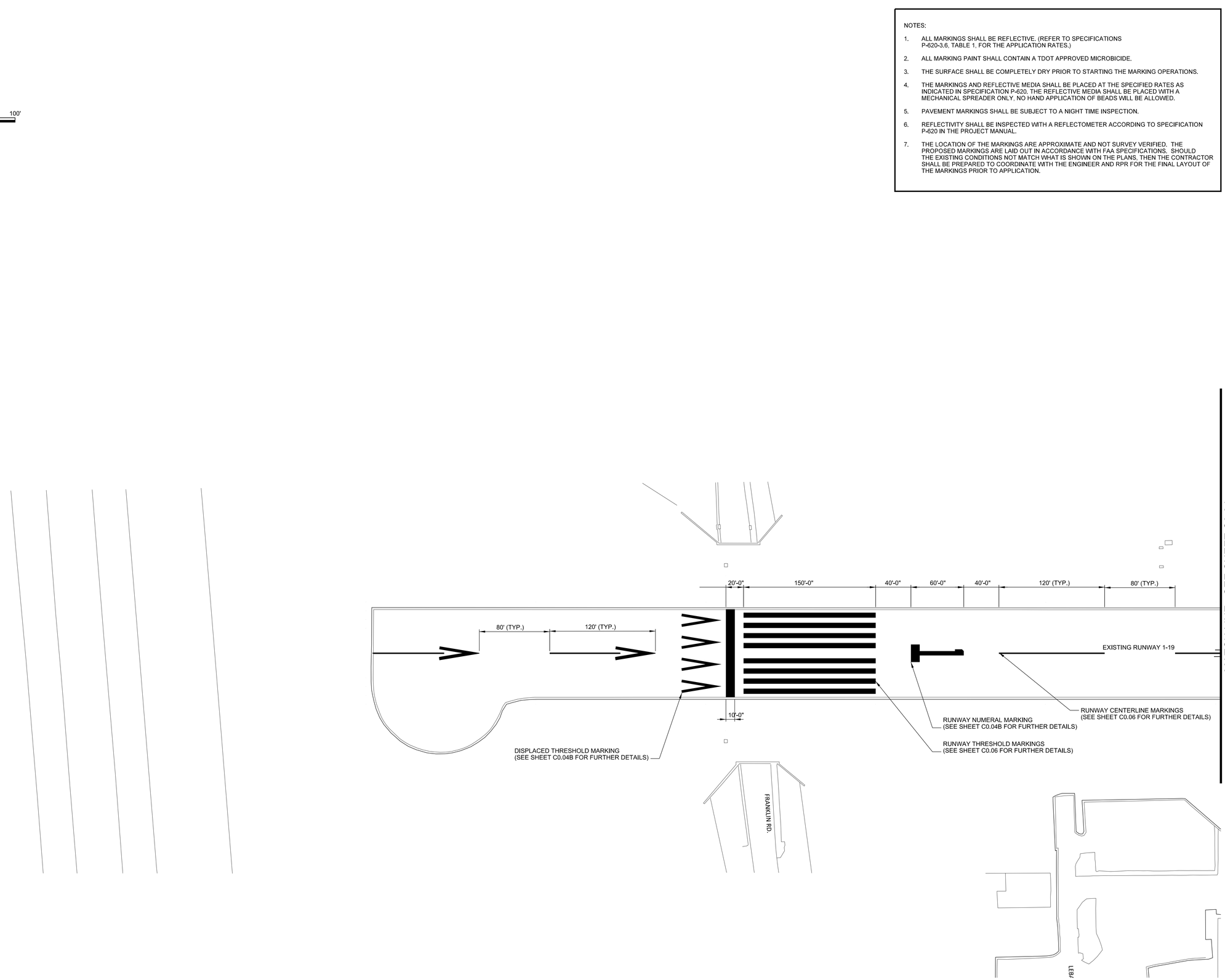
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



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REGISTERED ENGINEER
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No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LEBANON MUNICIPAL AIRPORT, M54
LEBANON, TENNESSEE

REVISION INFORMATION			
DESCRIPTION	DATE	CHK.	DR.
ISSUED FOR BID	02-11-2022	JDG	JAC.

REV. JRM

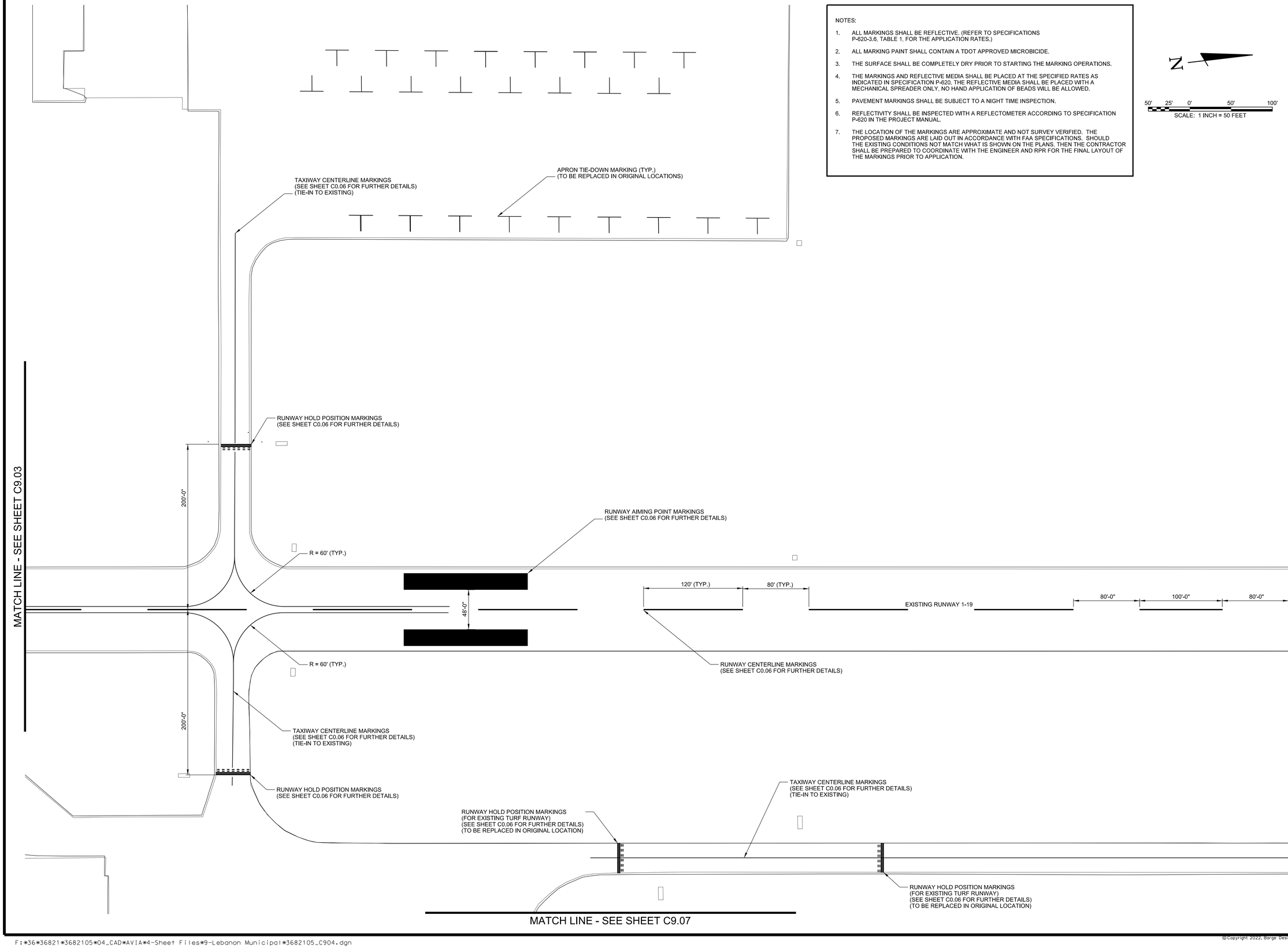
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SCALE: 1 INCH = 50 FEET

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AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
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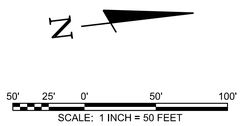
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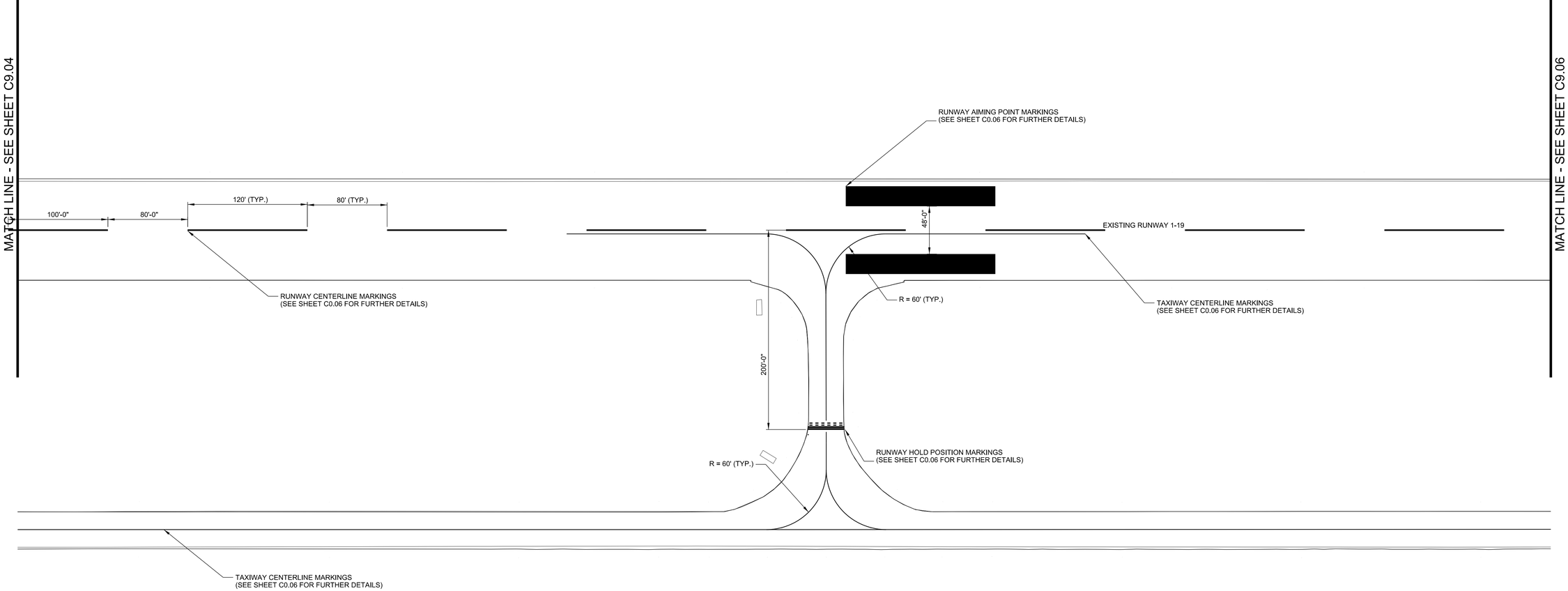
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JEREMY GREEN
REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LEBANON MUNICIPAL AIRPORT, M54
LEBANON, TENNESSEE

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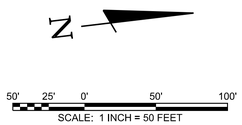
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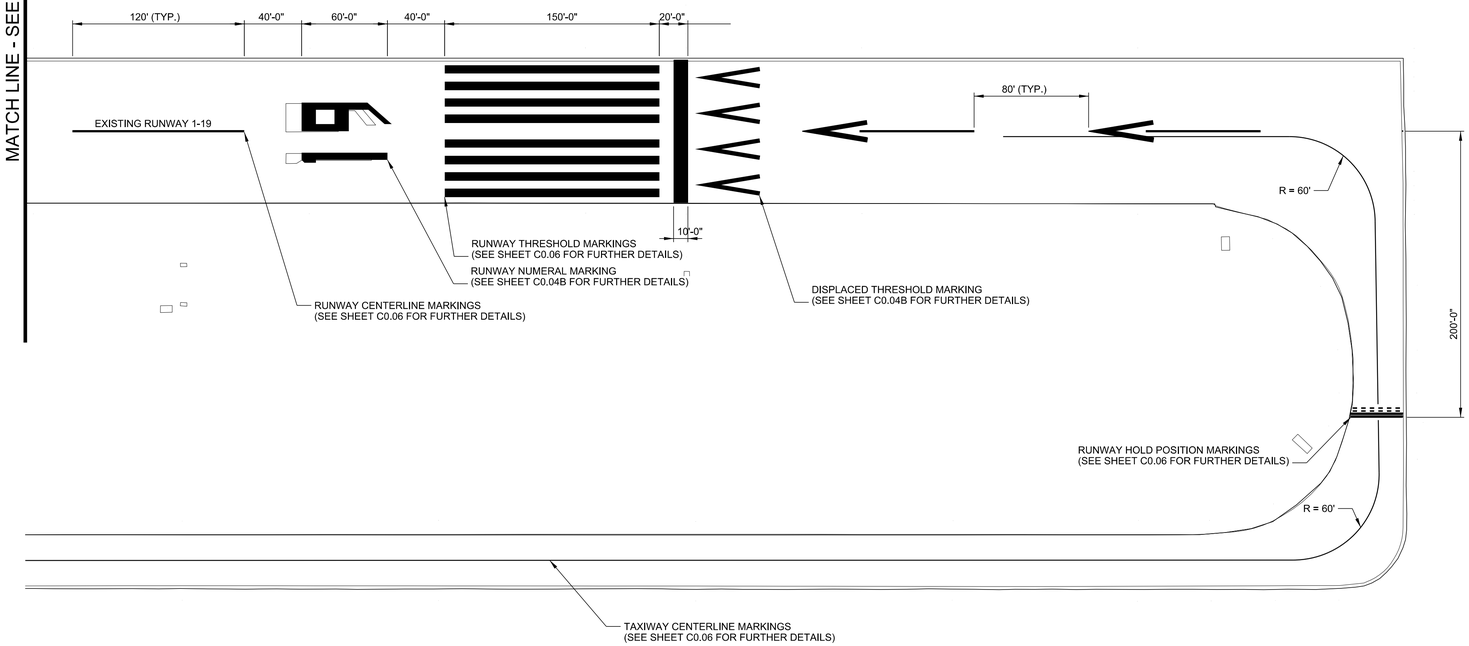
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2-11-2022

AIRFIELD MARKING PLAN

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LEBANON, TENNESSEE

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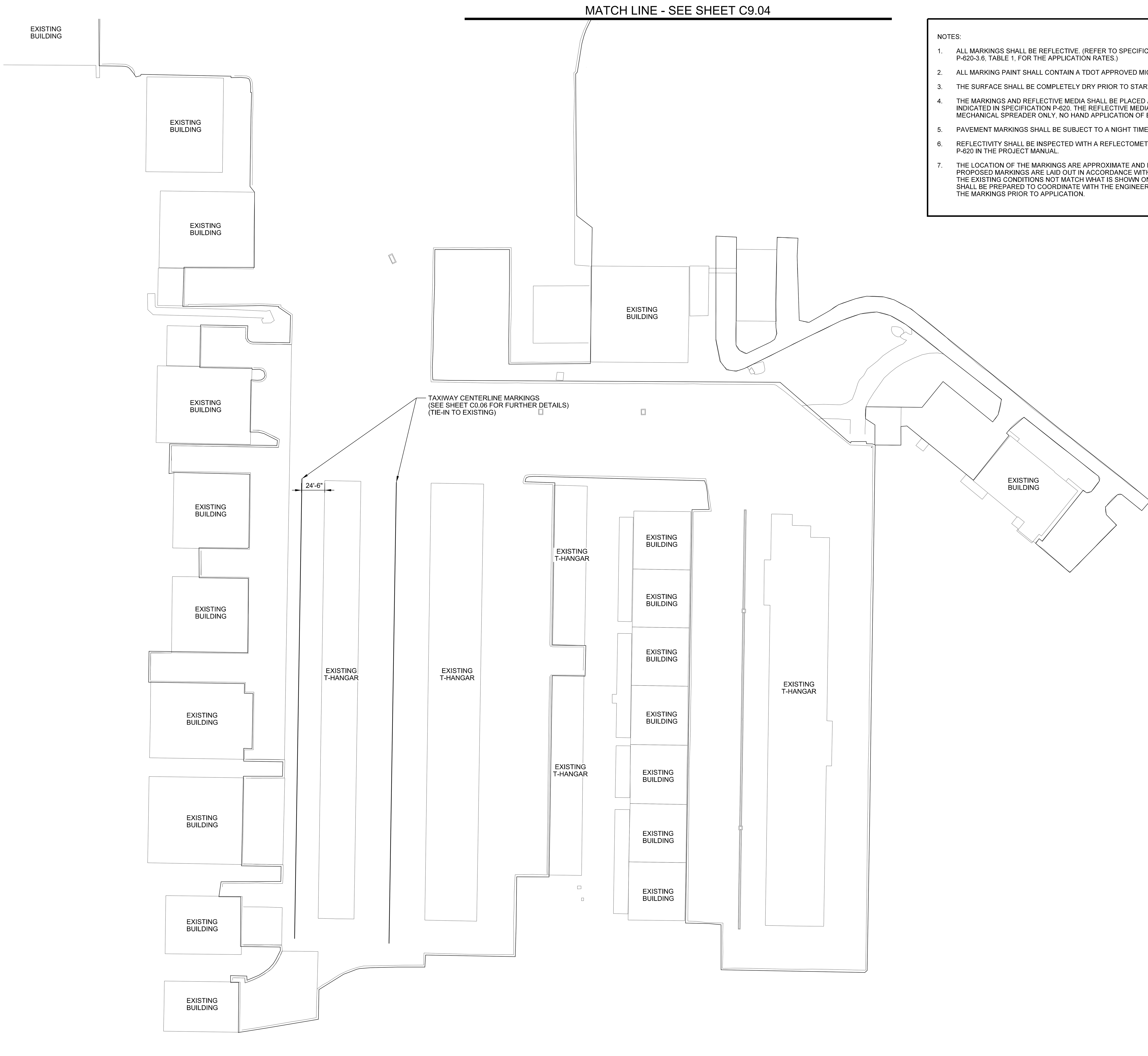
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JEREMY GREEN REGISTERED ENGINEER COMMERCE No. 121291 STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

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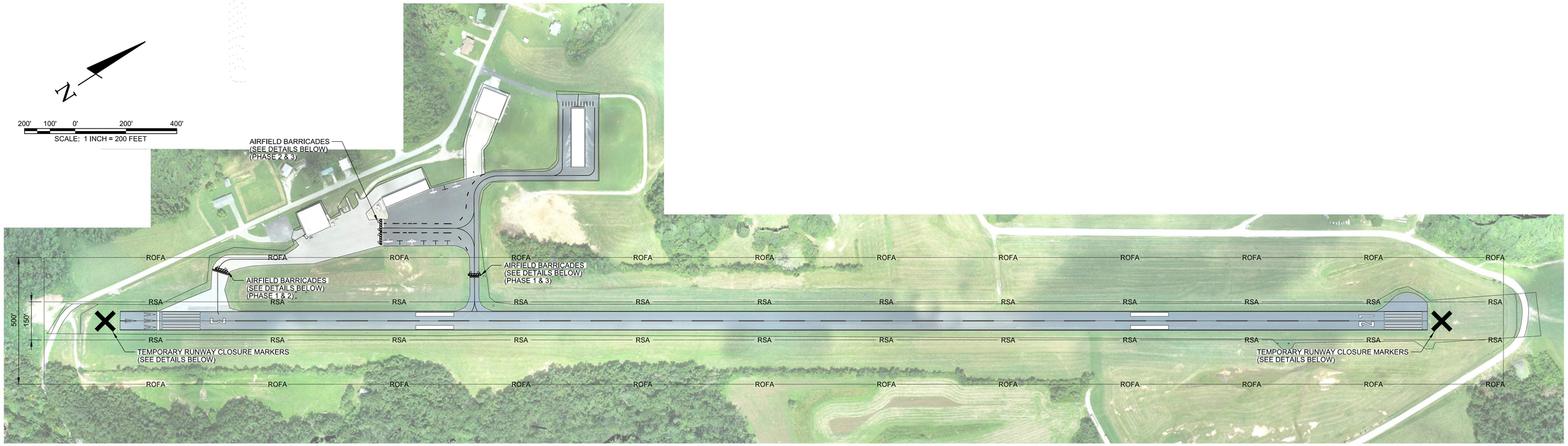
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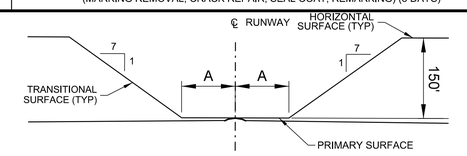
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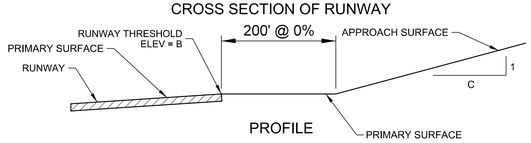
PROJECT PHASING: 13 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: SOUTHERN TAXIWAY & APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS) PHASE 3: NORTHERN TAXIWAY & T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA → CONSTRUCTION HAUL ROUTE — RSA— RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 3-21 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 3-21 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
3	250'	1365.7'	34
21	250'	1370.3'	34

FAR PART 77 SURFACES

DRAWING NOT TO SCALE

NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 3-21	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS

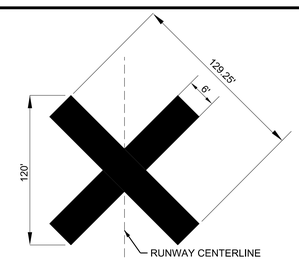
AIRPORT CONTACT INFORMATION:
EDNA WINNINGHAM
632 AIRPORT ROAD, LIVINGSTON, TN 38570
(931) 823-3671

LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

LIVINGSTON POLICE DEPARTMENT:
(931) 823-6496

LIVINGSTON FIRE DEPARTMENT:
(931) 823-2853

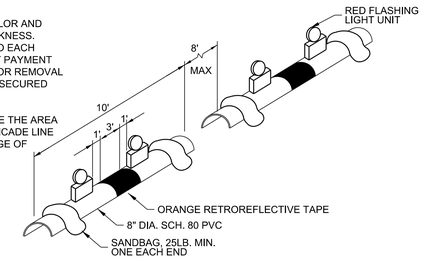
LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 C10.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 C10.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
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PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER JEREMY GREER No. 121291 STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LIVINGSTON MUNICIPAL AIRPORT, 8A3
LIVINGSTON, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

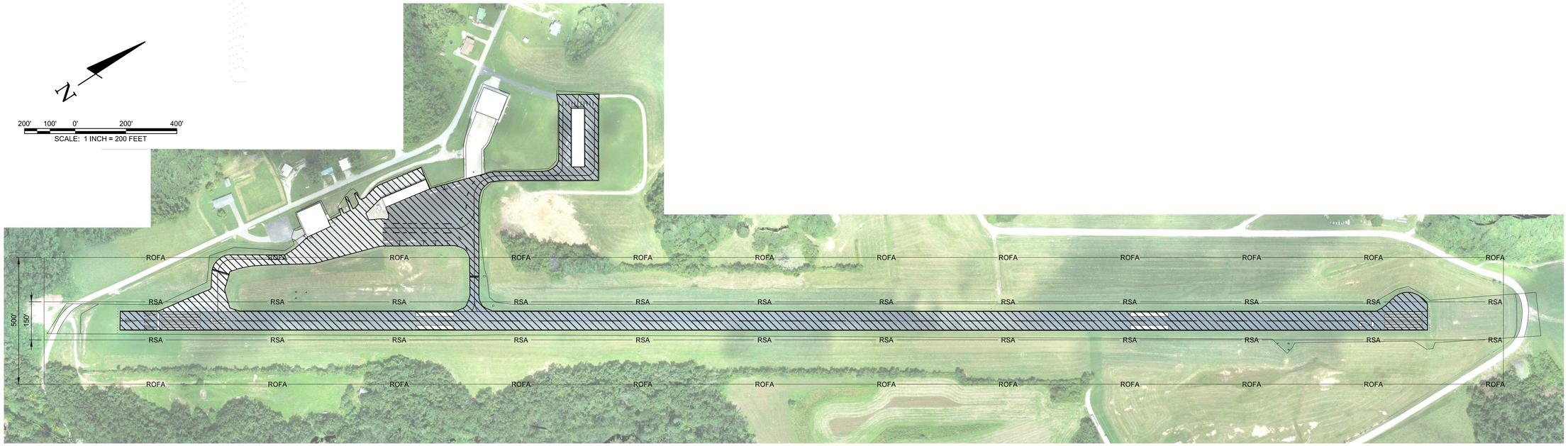
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PROJECT PHASING: 13 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: SOUTHERN TAXIWAY & APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS) PHASE 3: NORTHERN TAXIWAY & T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA CRACK REPAIR, REMARKING, SEAL COAT — RSA— RUNWAY SAFETY AREA

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	29,848	LF
P-101-5.2	CRACK REPAIR (TYPE II)	7,269	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	47,130	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	71,410	SY
P-620-5.1	TEMPORARY WHITE PAINT	26,605	SF
P-620-5.2	TEMPORARY YELLOW PAINT	2,740	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	26,605	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	2,740	SF

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REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LIVINGSTON MUNICIPAL AIRPORT, 8A3
LIVINGSTON, TENNESSEE

REVISION INFORMATION			
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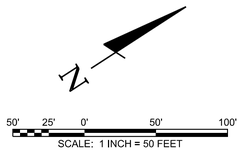
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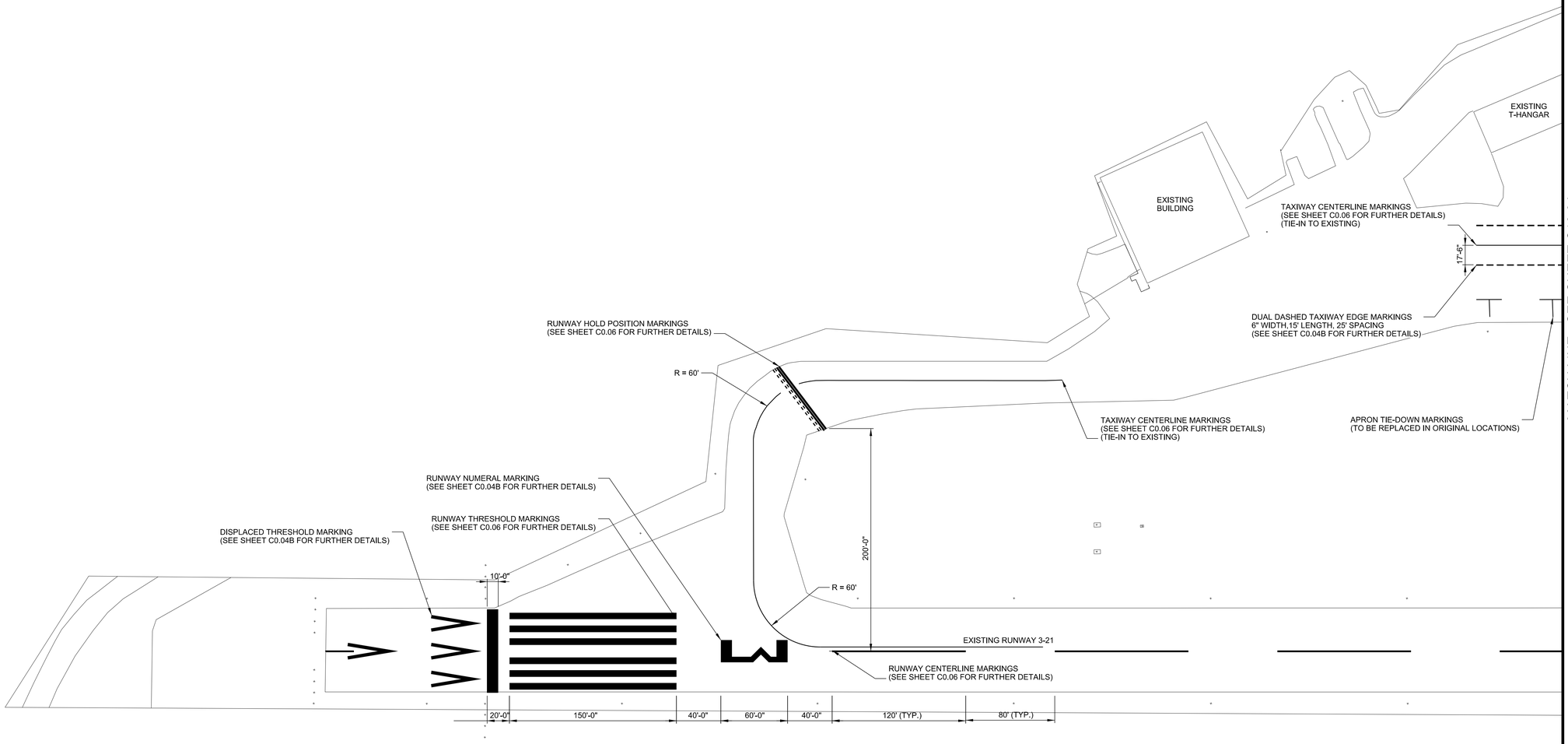
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LIVINGSTON MUNICIPAL AIRPORT, 8A3
LIVINGSTON, TENNESSEE

REVISION INFORMATION			
DES.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

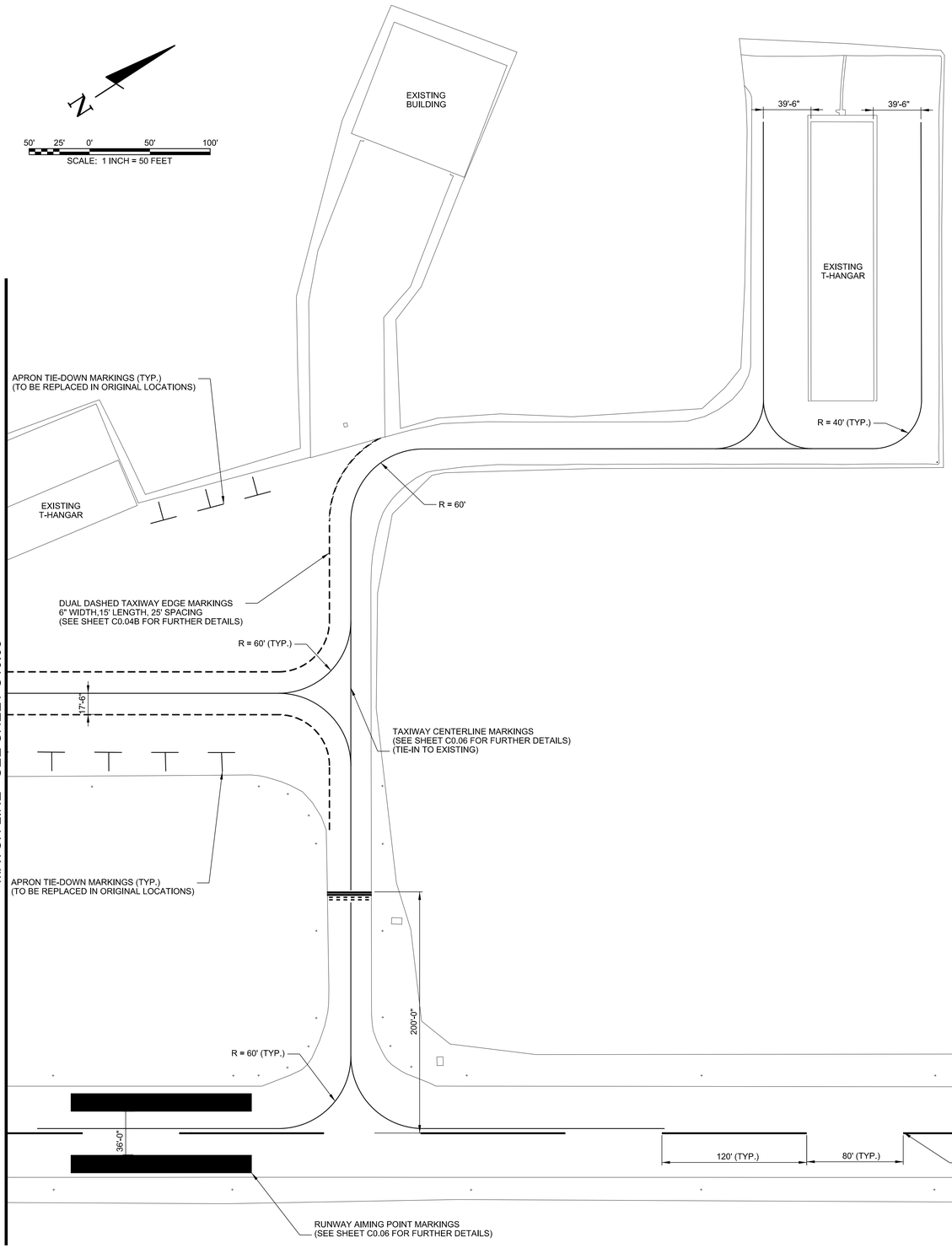
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AIRFIELD MARKING PLAN

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LIVINGSTON, TENNESSEE

REVISION INFORMATION			
DESCRIPTION	DATE	CHK	DR
ISSUED FOR BID	02-11-2022	JDG	JAC

REI JRM

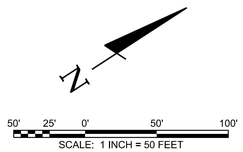
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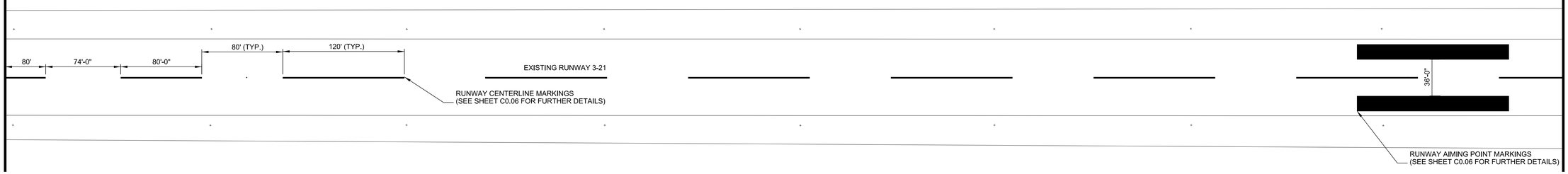


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MATCH LINE - SEE SHEET C10.04

MATCH LINE - SEE SHEET C10.06



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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LIVINGSTON MUNICIPAL AIRPORT, 8A3
LIVINGSTON, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
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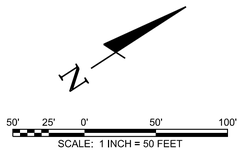
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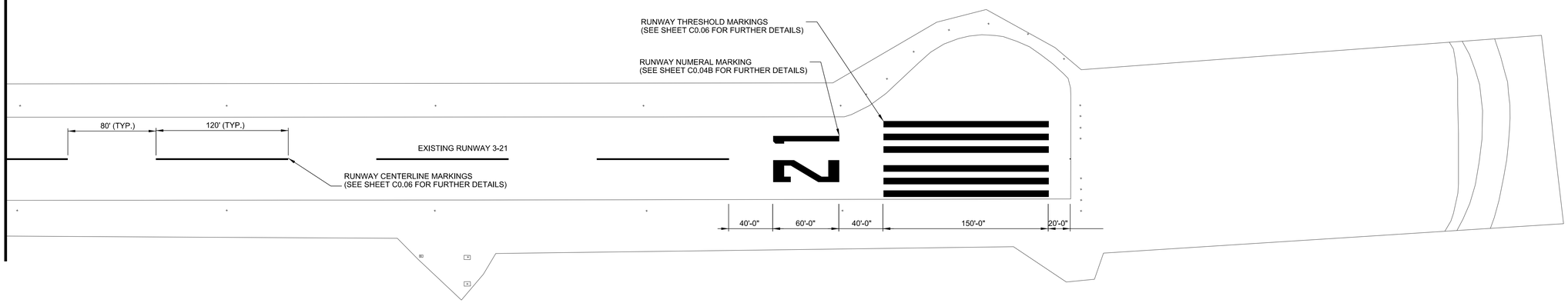
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MATCH LINE - SEE SHEET C10.05



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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
LIVINGSTON MUNICIPAL AIRPORT, 8A3
LIVINGSTON, TENNESSEE

REVISION INFORMATION			
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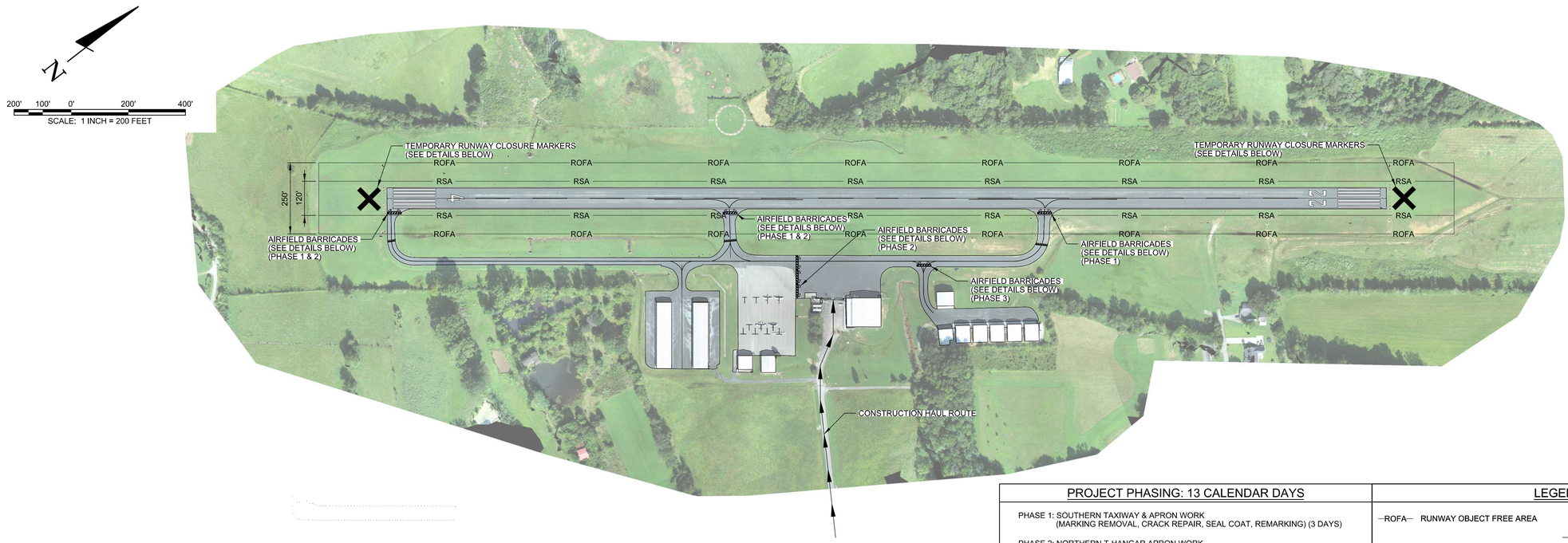
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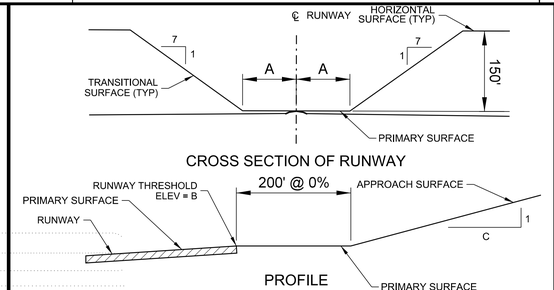
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PROJECT PHASING: 13 CALENDAR DAYS	LEGEND
PHASE 1: SOUTHERN TAXIWAY & APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA
PHASE 2: NORTHERN T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	→ CONSTRUCTION HAUL ROUTE
	— RSA— RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 60' OF THE PRIMARY RUNWAY 4-22 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 125' OF THE PRIMARY RUNWAY 4-22 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY

PROFILE

RUNWAY END	A	B	C
4	250'	640.8'	20
22	250'	640.8'	20

FAR PART 77 SURFACES

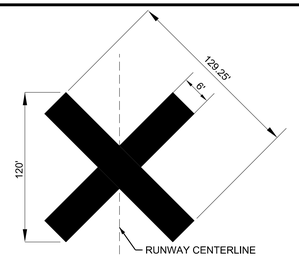
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 4-22	120'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C11.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
WILLIAM NEAL
300 AIRPORT ROAD, JASPER, TN 37347
(423) 942-5234

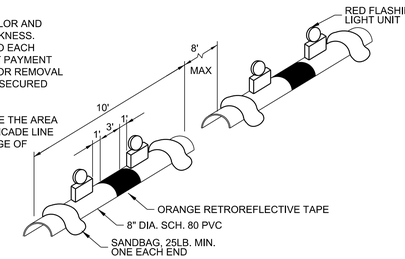
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

MARION COUNTY POLICE DEPARTMENT:
(423) 942-2525

JASPER VOLUNTEER FIRE DEPARTMENT:
(423) 942-3473

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C11.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARION COUNTY - BROWN FIELD AIRPORT, APT
JASPER, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

ISSUED FOR BID

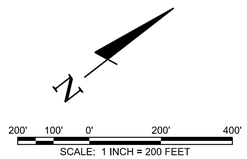
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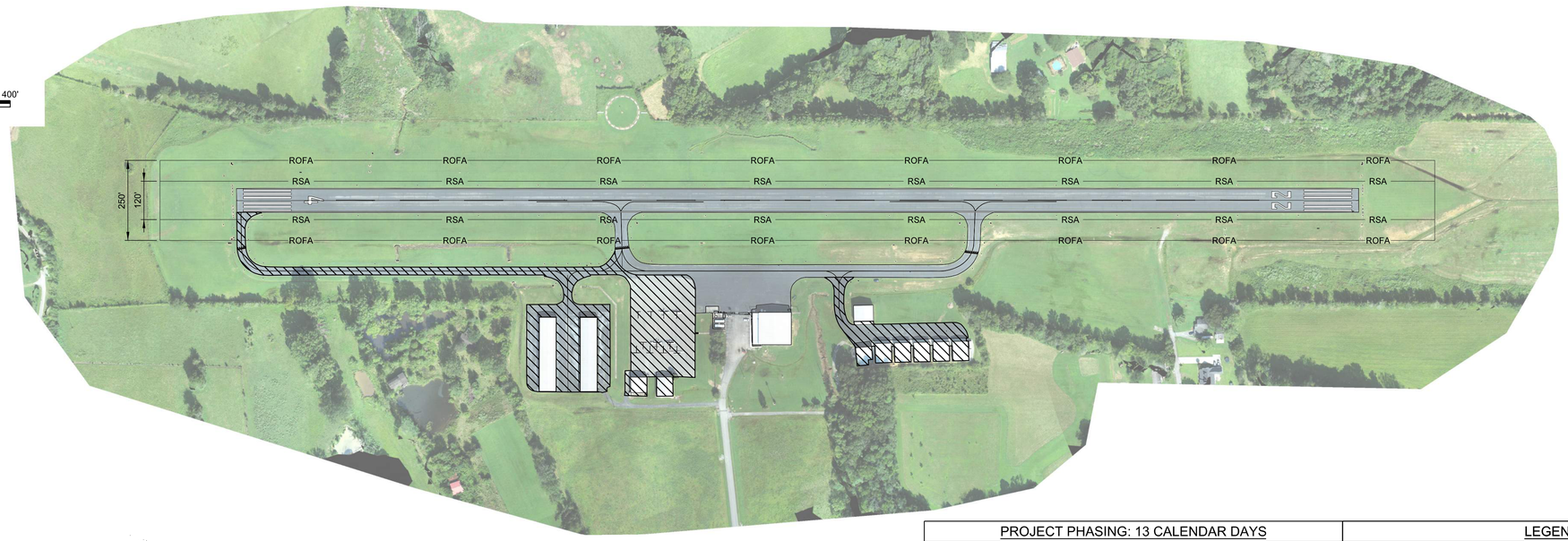
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PROJECT PHASING: 13 CALENDAR DAYS	LEGEND
PHASE 1: SOUTHERN TAXIWAY & APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS) PHASE 2: NORTHERN T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA CRACK REPAIR, REMARKING, SEAL COAT — RSA— RUNWAY SAFETY AREA

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	5,776	LF
P-101-5.2	CRACK REPAIR (TYPE II)	750	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	1,415	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	22,805	SY
P-620-5.2	TEMPORARY YELLOW PAINT	1,415	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,415	SF

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REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARION COUNTY - BROWN FIELD AIRPORT, APT
JASPER, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

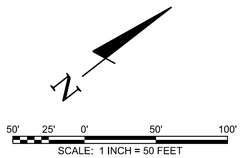
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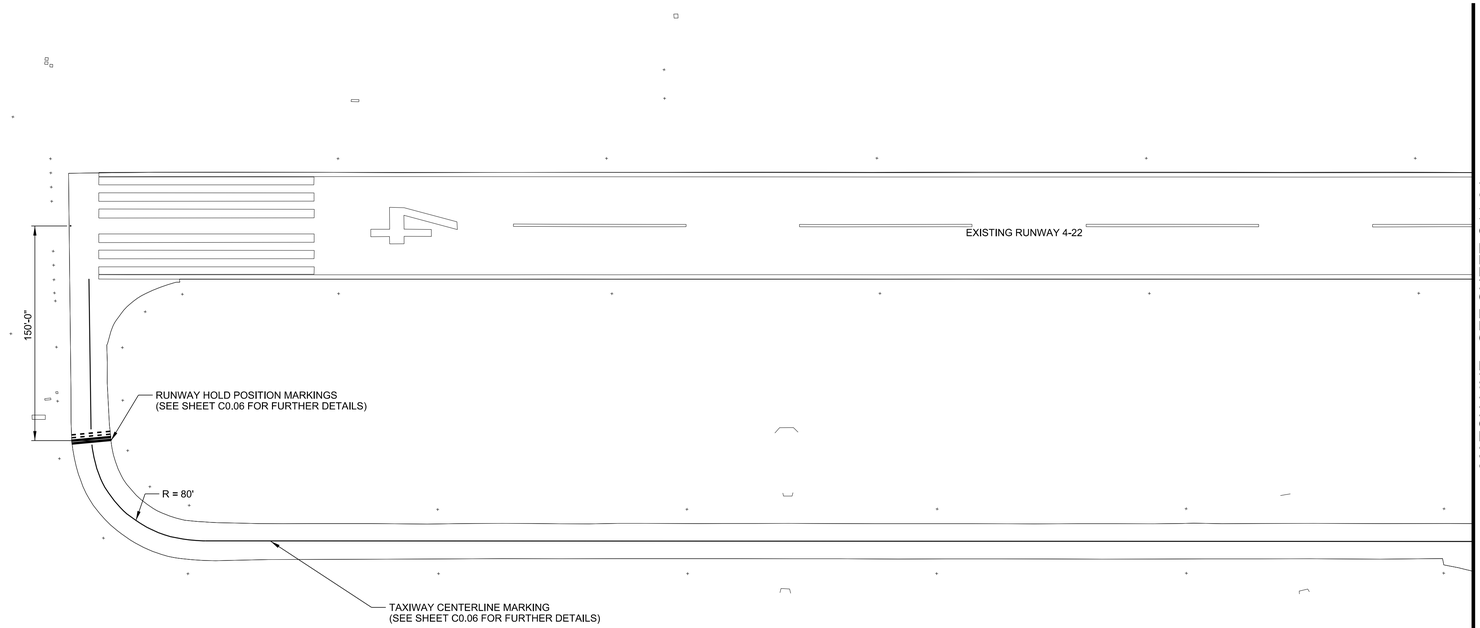
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



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REGISTERED ENGINEER
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No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARION COUNTY - BROWN FIELD AIRPORT, APT

JASPER, TENNESSEE

REVISION INFORMATION		
DESCRIPTION	DATE	CHK
ISSUED FOR BID	02-11-2022	JDG

REV.	DR.
JRM	JAC

C11.03

FILE NO. 36821-05

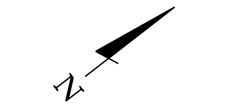
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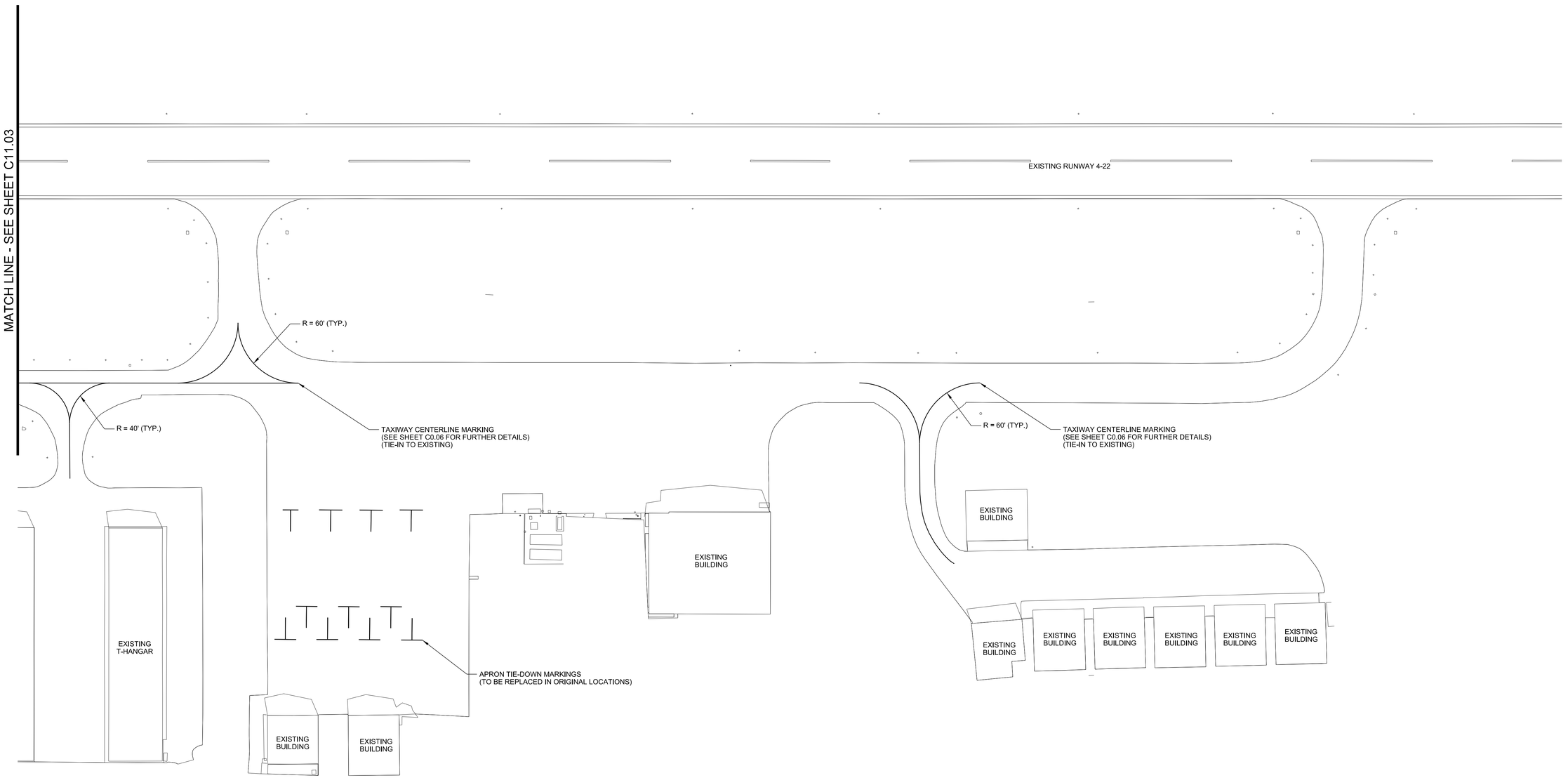
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50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET



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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARION COUNTY - BROWN FIELD AIRPORT, APT
JASPER, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
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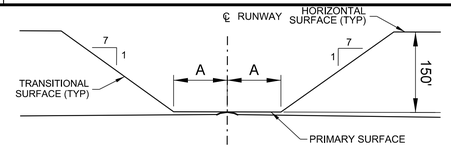
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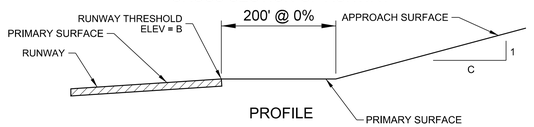
PROJECT PHASING: 13 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE)	—ROFA— RUNWAY OBJECT FREE AREA
PHASE 2: TAXIWAY & T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)	→ CONSTRUCTION HAUL ROUTE
	— RSA— RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
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4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
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7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 123.00. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 123.00 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 3-21 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 3-21 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
3	250'	710.8'	34
21	250'	718.0'	34

FAR PART 77 SURFACES

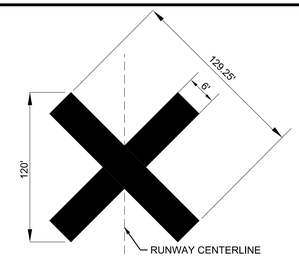
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 3-21	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C12.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
BRYAN JANISCH
350 WALTER SQUIRE ROAD, DAYTON, TN 37321
(423) 775-8407

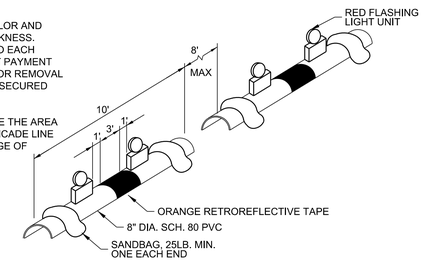
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

DAYTON POLICE DEPARTMENT:
(423) 775-8403

DAYTON FIRE DEPARTMENT:
(423) 775-8402

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C12.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARK ANTON AIRPORT, 2A0
DAYTON, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDS	02-11-2022
			ISSUED FOR BID

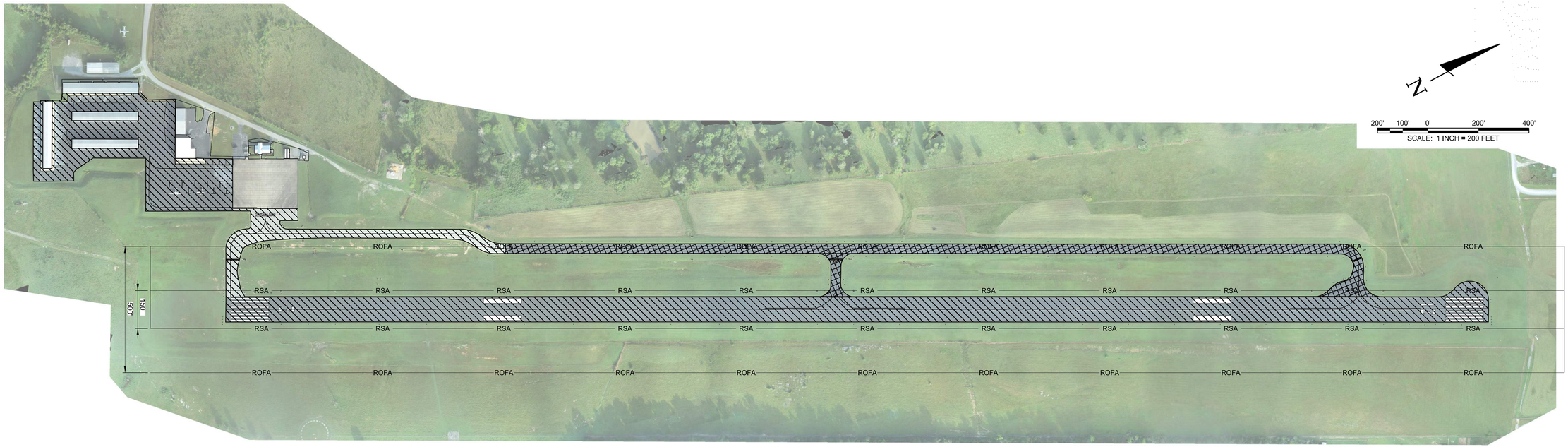
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PROJECT PHASING: 13 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE)	—ROFA— RUNWAY OBJECT FREE AREA; CRACK REPAIR, REMARKING, SEAL COAT
PHASE 2: TAXIWAY & T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)	— RSA— RUNWAY SAFETY AREA; CRACK REPAIR, REMARKING ONLY

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	202,550	LF
P-101-5.2	CRACK REPAIR (TYPE II)	1,808	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	66,580	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	86,345	SY
P-620-5.1	TEMPORARY WHITE PAINT	31,385	SF
P-620-5.2	TEMPORARY YELLOW PAINT	5,200	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	31,385	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	5,200	SF

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JEREMY GREEN
REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARK ANTON AIRPORT, 2A0
DAYTON, TENNESSEE

REVISION INFORMATION			
NO.	DESCRIPTION	DATE	CHK.
1	ISSUED FOR BID	02-11-2022	JDG

DES. JAC
DRN. JRM

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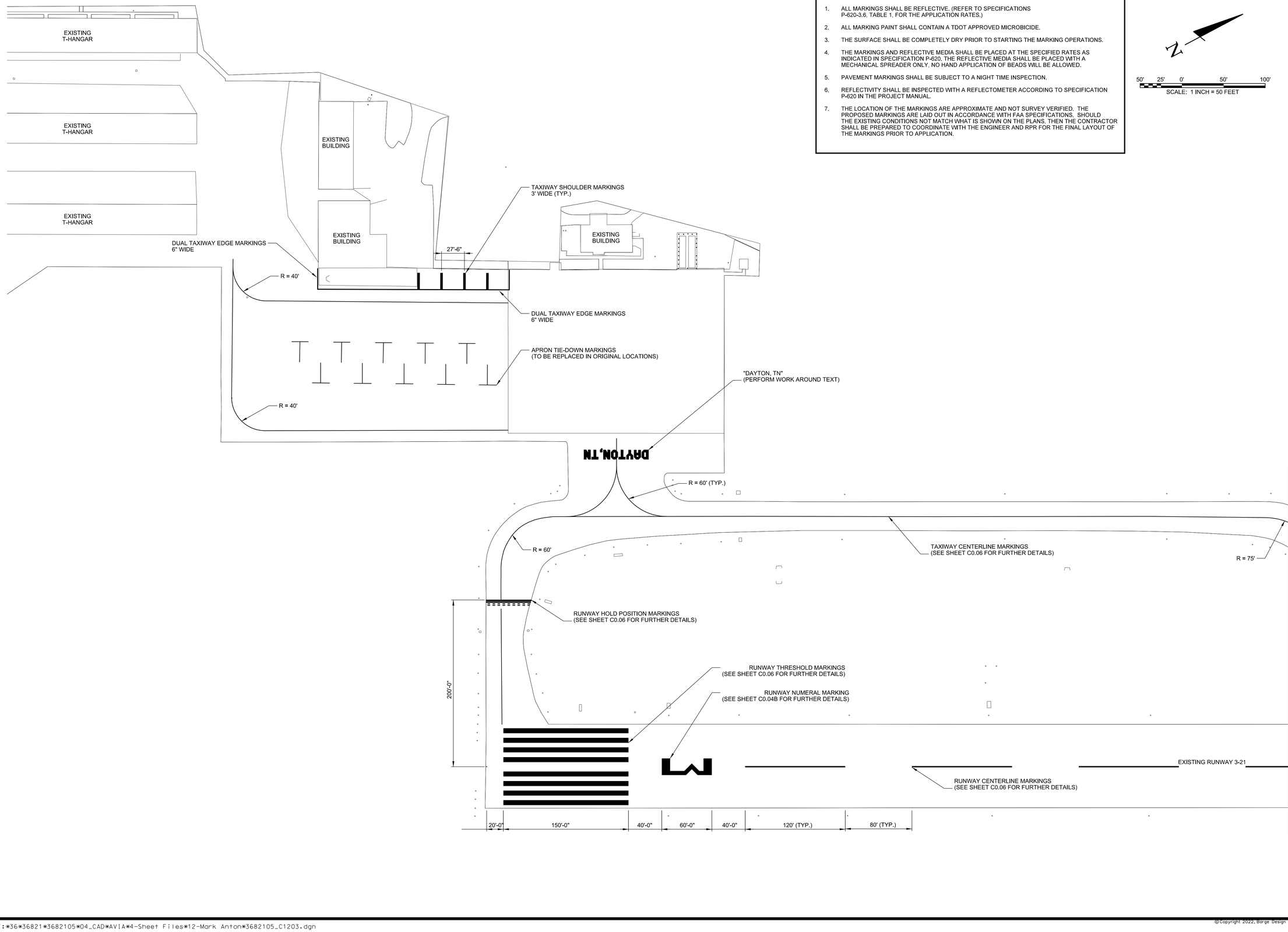
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3,6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



N

50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET

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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARK ANTON AIRPORT, 2A0
DAYTON, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

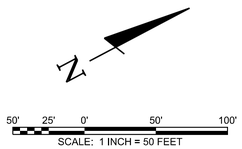
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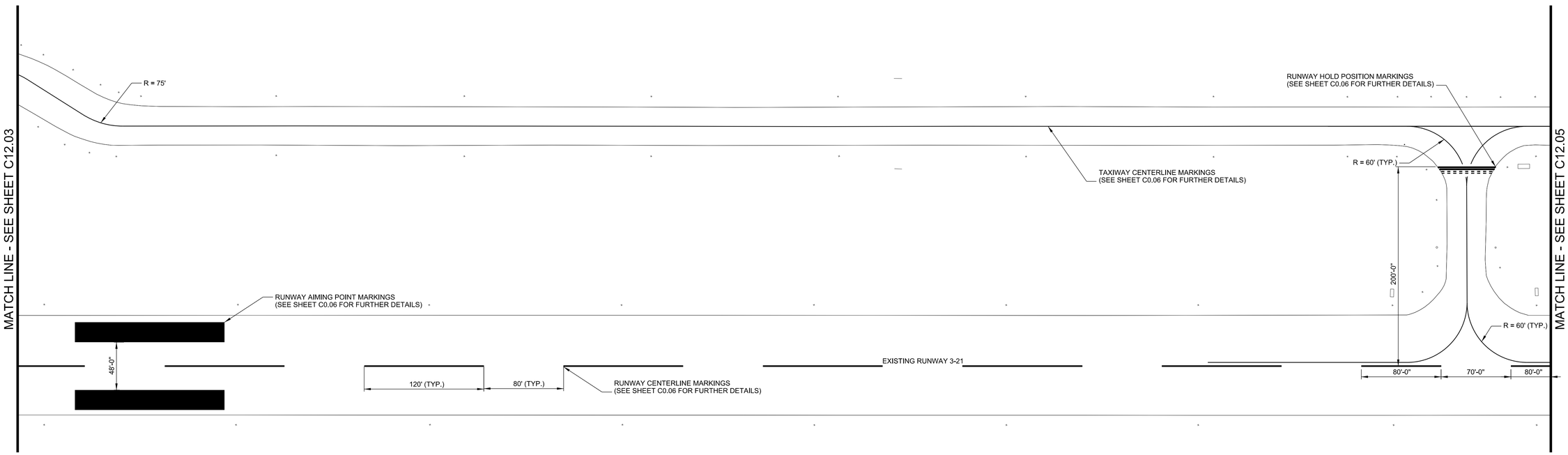
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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARK ANTON AIRPORT, 2A0
DAYTON, TENNESSEE

REVISION INFORMATION		
DESCRIPTION	DATE	CHK
ISSUED FOR BID	02-11-2022	JDG

DES. JRM
DR. JAC
CHK. JDG

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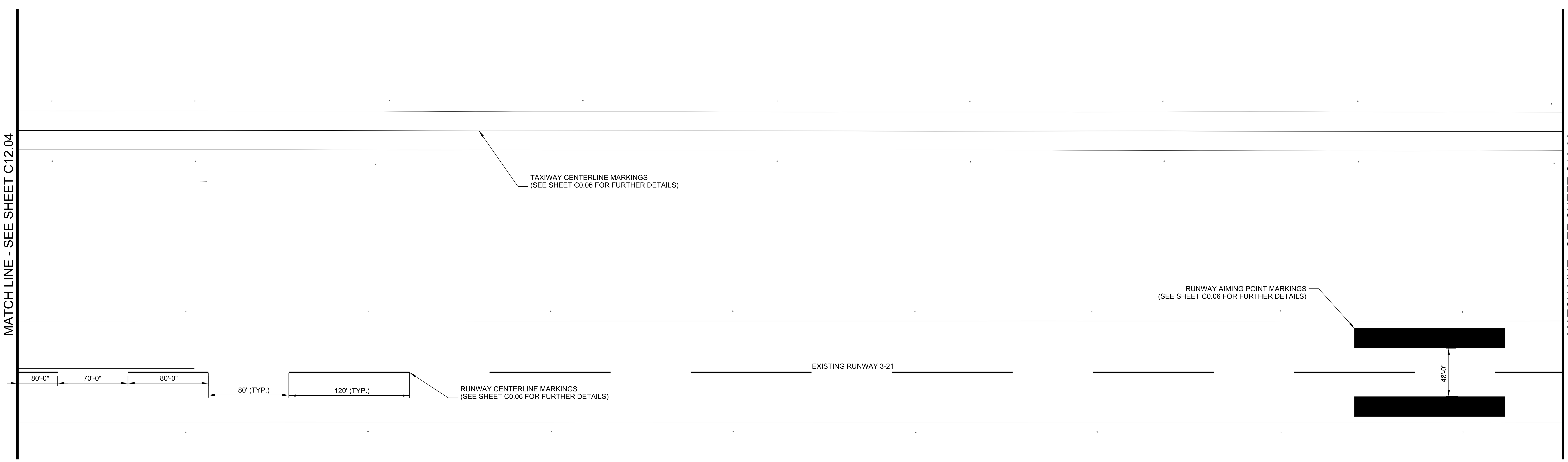
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SCALE: 1 INCH = 50 FEET

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JEREMY GREEN REGISTERED ENGINEER No. 121291 STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARK ANTON AIRPORT, 2A0
DAYTON, TENNESSEE

REVISION INFORMATION				
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

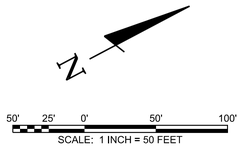
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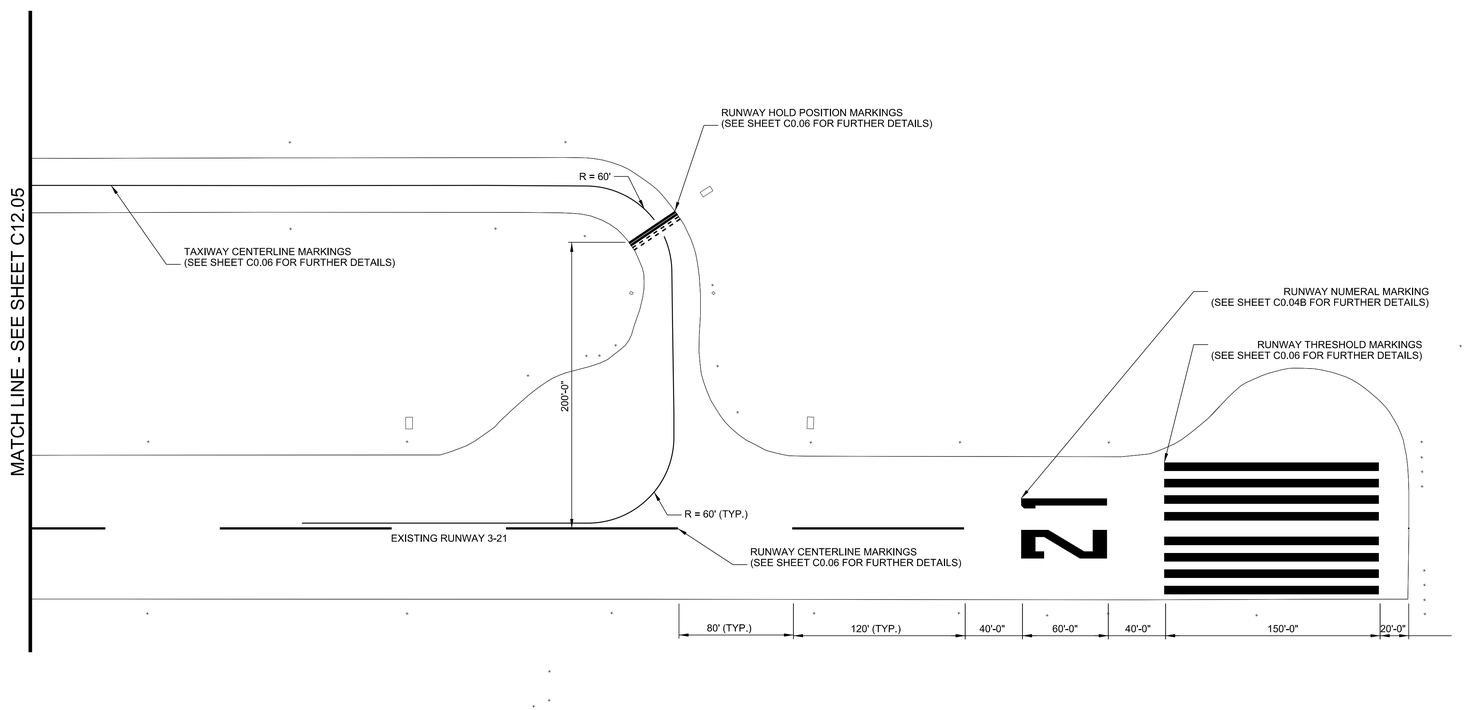
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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARK ANTON AIRPORT, 2A0
DAYTON, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

C12.06

FILE NO. 36821-05

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PROJECT PHASING: 13 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)

PHASE 2: MAIN APRON & T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)

LEGEND

ROFA — RUNWAY OBJECT FREE AREA

RSA — RUNWAY SAFETY AREA

→ CONSTRUCTION HAUL ROUTE

CONSTRUCTION SAFETY NOTES

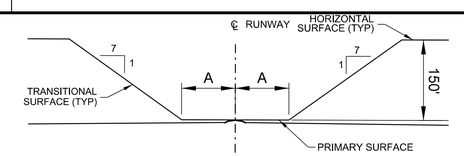
1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:

   9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"

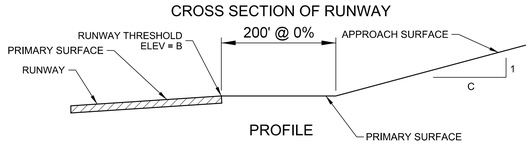
   9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"

   9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"

10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.90. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.90 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 2-20 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 2-20 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
2	250'	1771.7'	20
20	250'	1788.7'	20

FAR PART 77 SURFACES

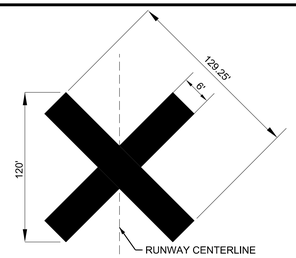
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 2-20	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C13.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
ALLAN FROSCH
971 AIRPORT ROAD, COPPERHILL, TN 37317
(423) 496-9465

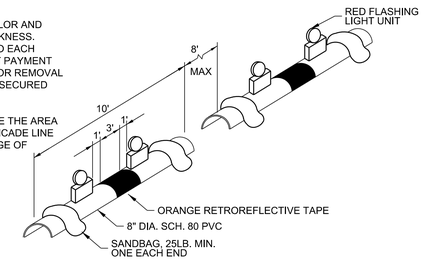
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

DUCKTOWN POLICE DEPARTMENT:
(423) 496-3301

EAST POLK FIRE AND RESCUE:
(423) 496-3301

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C13.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARTIN CAMPBELL FIELD, 1A3
COPPERHILL, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

ISSUED FOR BID

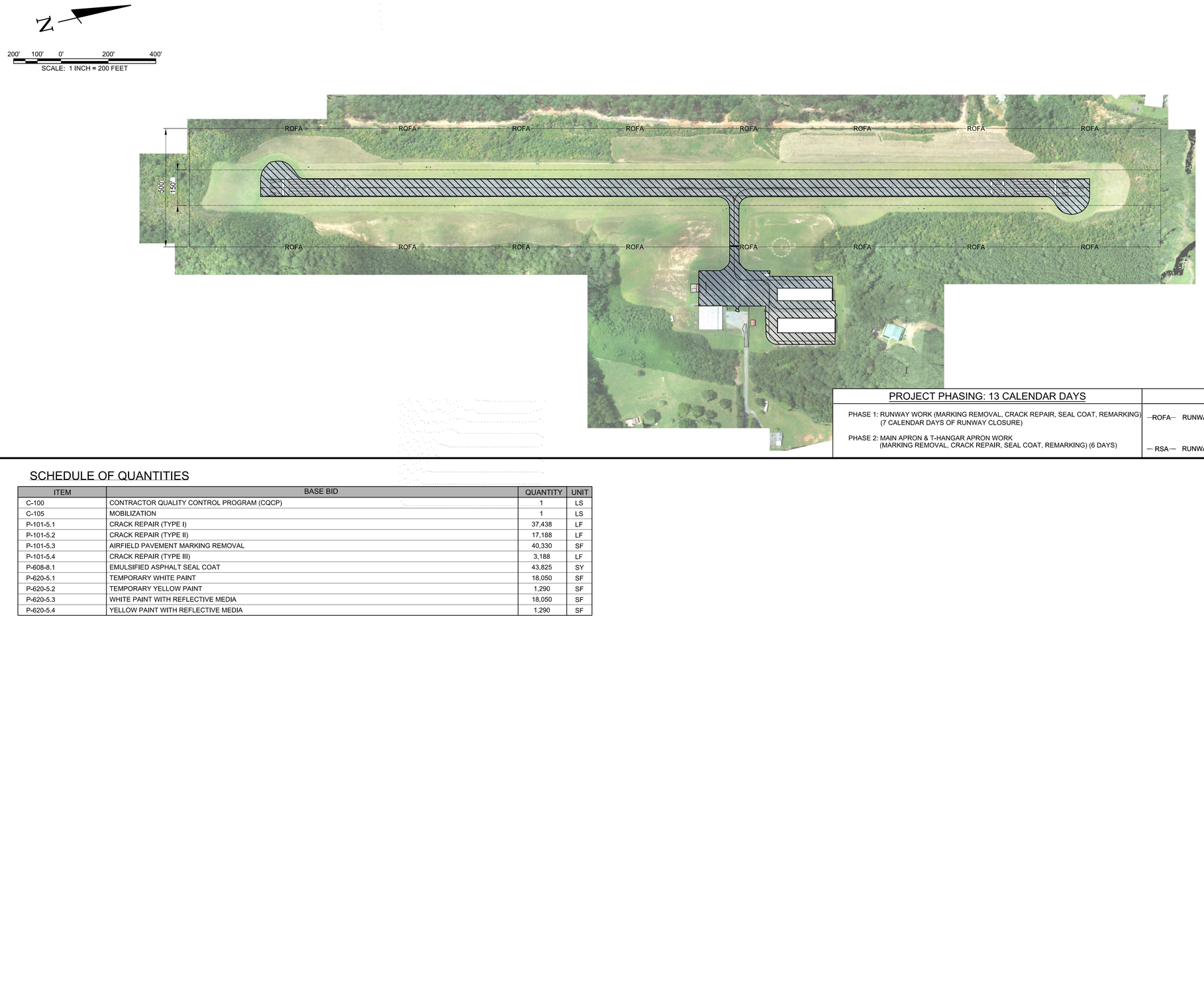
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PROJECT PHASING: 13 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: MAIN APRON & T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA CRACK REPAIR, REMARKING, SEAL COAT — RSA— RUNWAY SAFETY AREA

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	37,438	LF
P-101-5.2	CRACK REPAIR (TYPE II)	17,188	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	40,330	SF
P-101-5.4	CRACK REPAIR (TYPE III)	3,188	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	43,825	SY
P-620-5.1	TEMPORARY WHITE PAINT	18,050	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,290	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	18,050	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,290	SF

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2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARTIN CAMPBELL FIELD, 1A3
COPPERHILL, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
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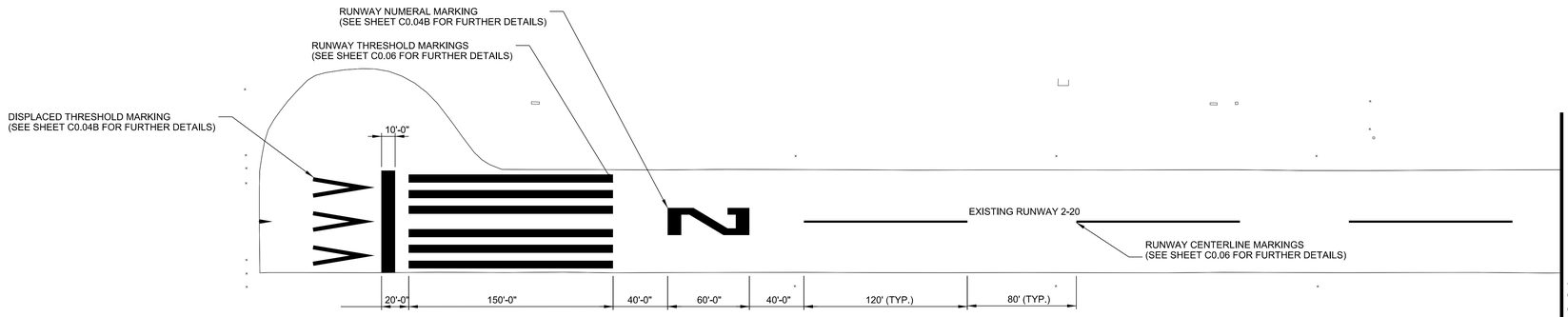
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SCALE: 1 INCH = 50 FEET

NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



MATCH LINE - SEE SHEET C13.04

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REGISTERED ENGINEER
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STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARTIN CAMPBELL FIELD, 1A3
COPPERHILL, TENNESSEE

REV.	DR.	CHK.	DATE	DESCRIPTION
	JAC	JDG	02-11-2022	ISSUED FOR BID

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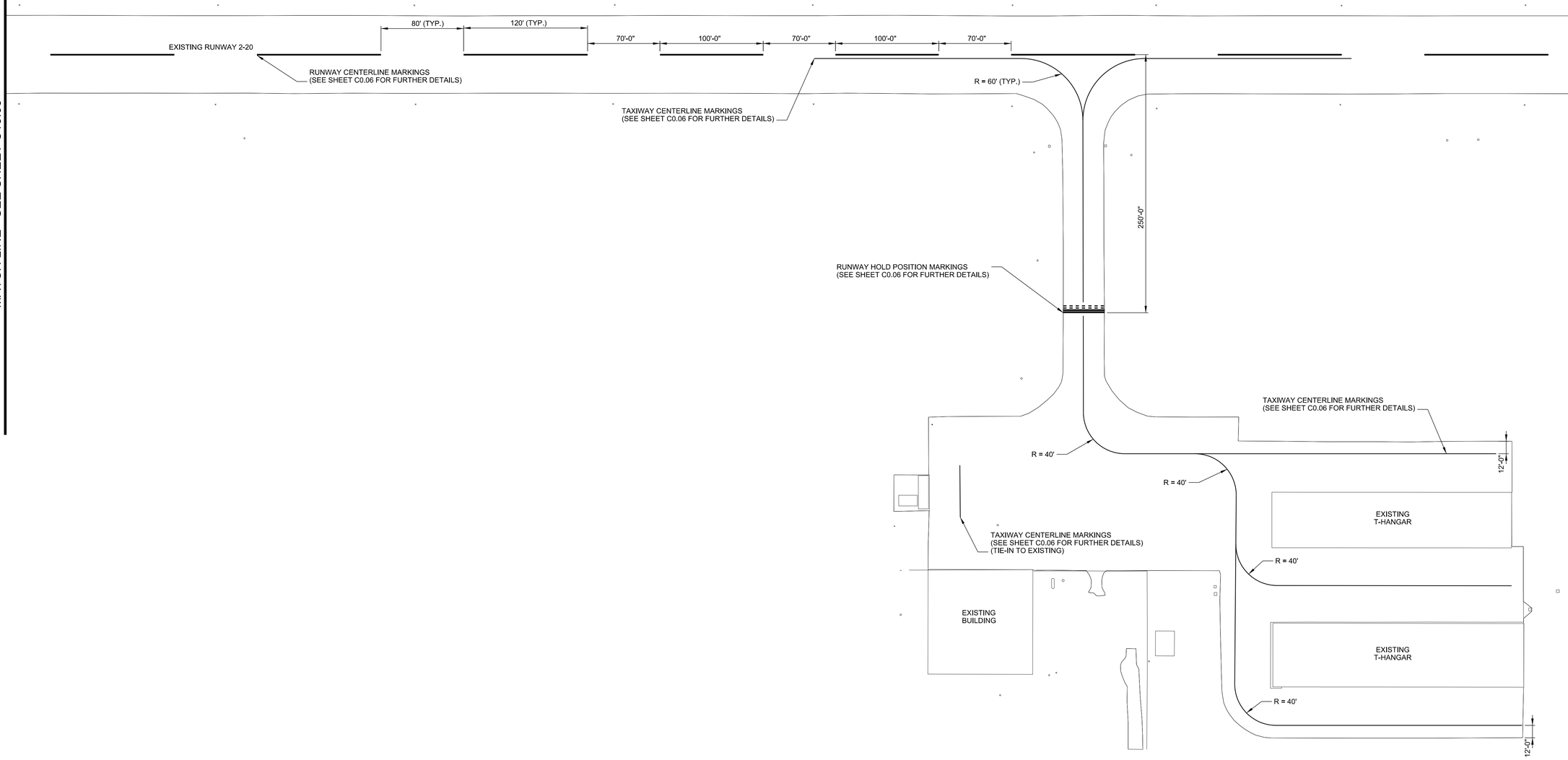
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SCALE: 1 INCH = 50 FEET

MATCH LINE - SEE SHEET C13.03

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No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARTIN CAMPBELL FIELD, 1A3
COPPERHILL, TENNESSEE

REVISION INFORMATION			
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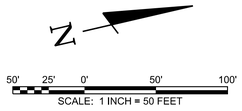
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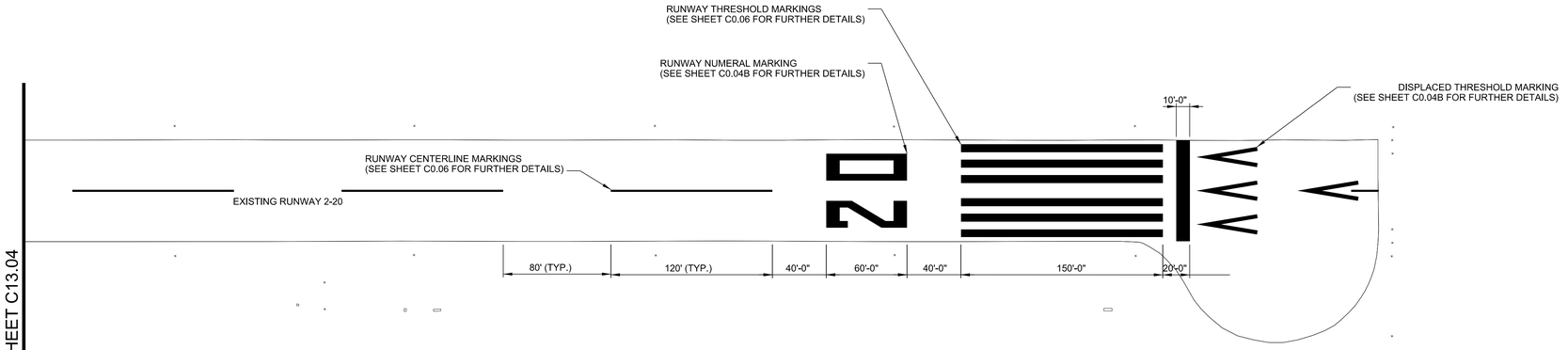
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MATCH LINE - SEE SHEET C13.04

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REGISTERED ENGINEER
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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MARTIN CAMPBELL FIELD, 1A3
COPPERHILL, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

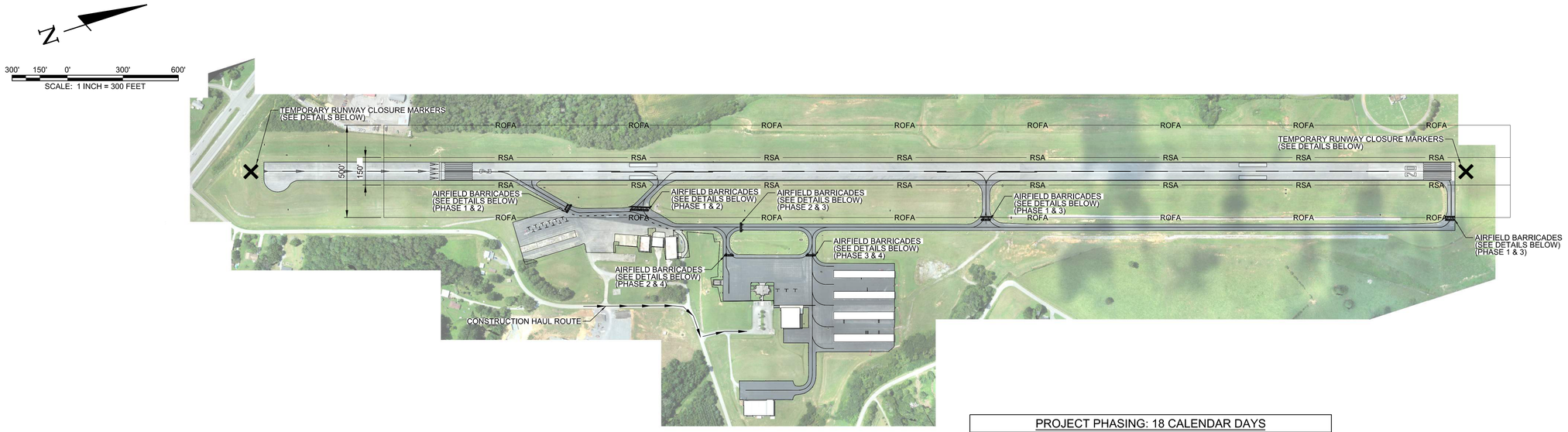
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PROJECT PHASING: 18 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)

PHASE 2: SOUTHERN APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

PHASE 3: PARALLEL TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

PHASE 4: NORTHERN APRON & T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (5 DAYS)

LEGEND

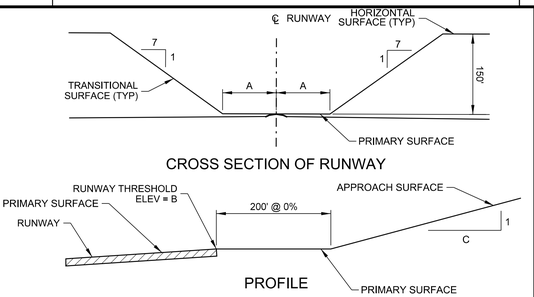
ROFA — RUNWAY OBJECT FREE AREA

RSA — RUNWAY SAFETY AREA

CONSTRUCTION HAUL ROUTE

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
    DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OF ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 2-20 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 2-20 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY

PROFILE

RUNWAY END	A	B	C
2	250'	806.76'	34
20	250'	874.25'	34

FAR PART 77 SURFACES

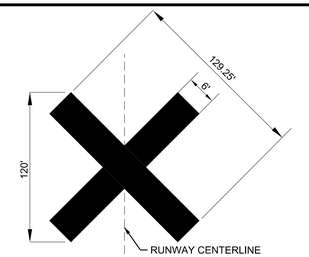
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 2-20	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C14.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
KRISTY GENTRY COX
195 COUNTY ROAD 552, ATHENS, TN 37303
(423) 745-4939

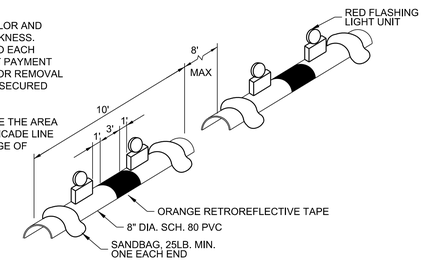
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

ATHENS CITY POLICE DEPARTMENT:
(423) 744-2730

ATHENS CITY FIRE DEPARTMENT:
(423) 744-2762

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C14.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
McMINN COUNTY AIRPORT, MMI
ATHENS, TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

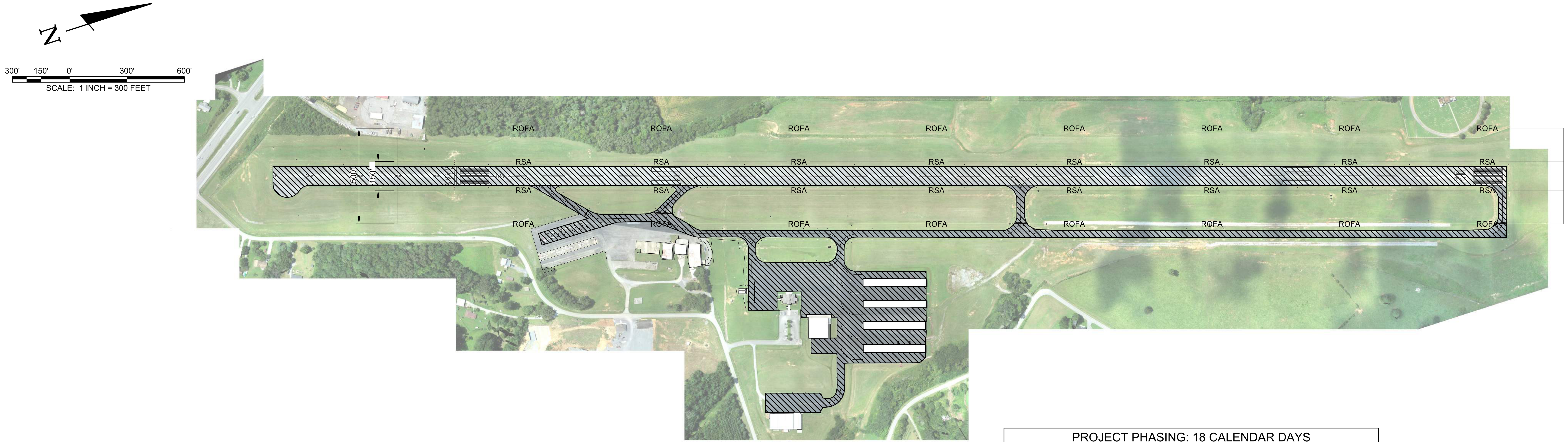
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PROJECT PHASING: 18 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)

PHASE 2: SOUTHERN APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

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PHASE 4: NORTHERN APRON & T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (5 DAYS)

LEGEND

—ROFA— RUNWAY OBJECT FREE AREA

— RSA— RUNWAY SAFETY AREA

(hatch) CRACK REPAIR, REMARKING, SEAL COAT

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	103,083	LF
P-101-5.2	CRACK REPAIR (TYPE II)	9,463	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	62,885	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	137,965	SY
P-620-5.1	TEMPORARY WHITE PAINT	35,900	SF
P-620-5.2	TEMPORARY YELLOW PAINT	7,645	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	35,900	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	7,645	SF

BARGE DESIGN SOLUTIONS
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OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
McMINN COUNTY AIRPORT, MMI
ATHENS, TENNESSEE

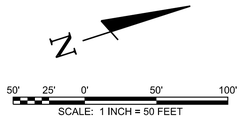
REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

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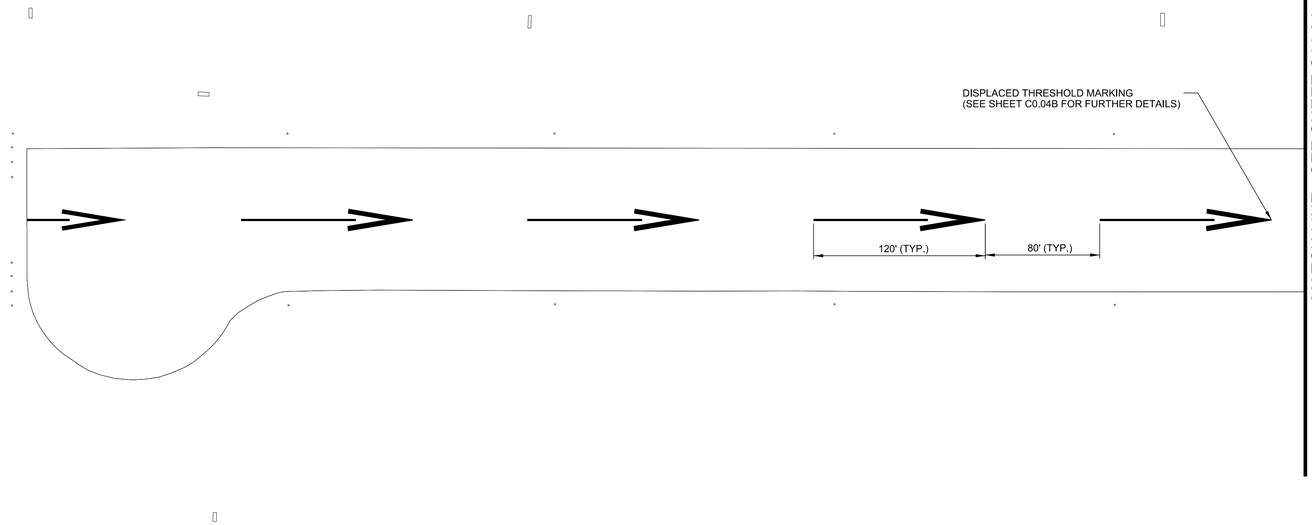
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



MATCH LINE - SEE SHEET C14.04

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PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
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No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

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ATHENS, TENNESSEE

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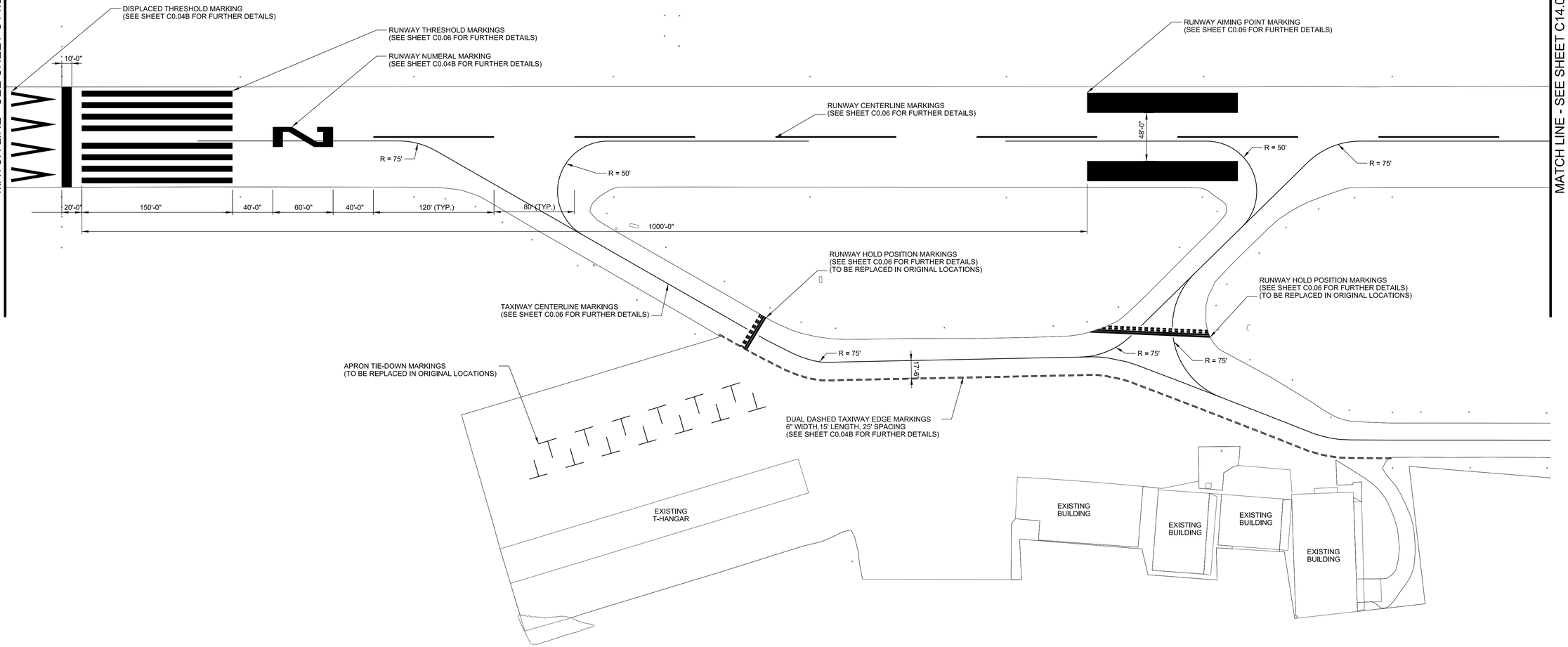
SCALE: 1 INCH = 50 FEET

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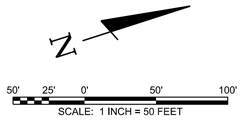
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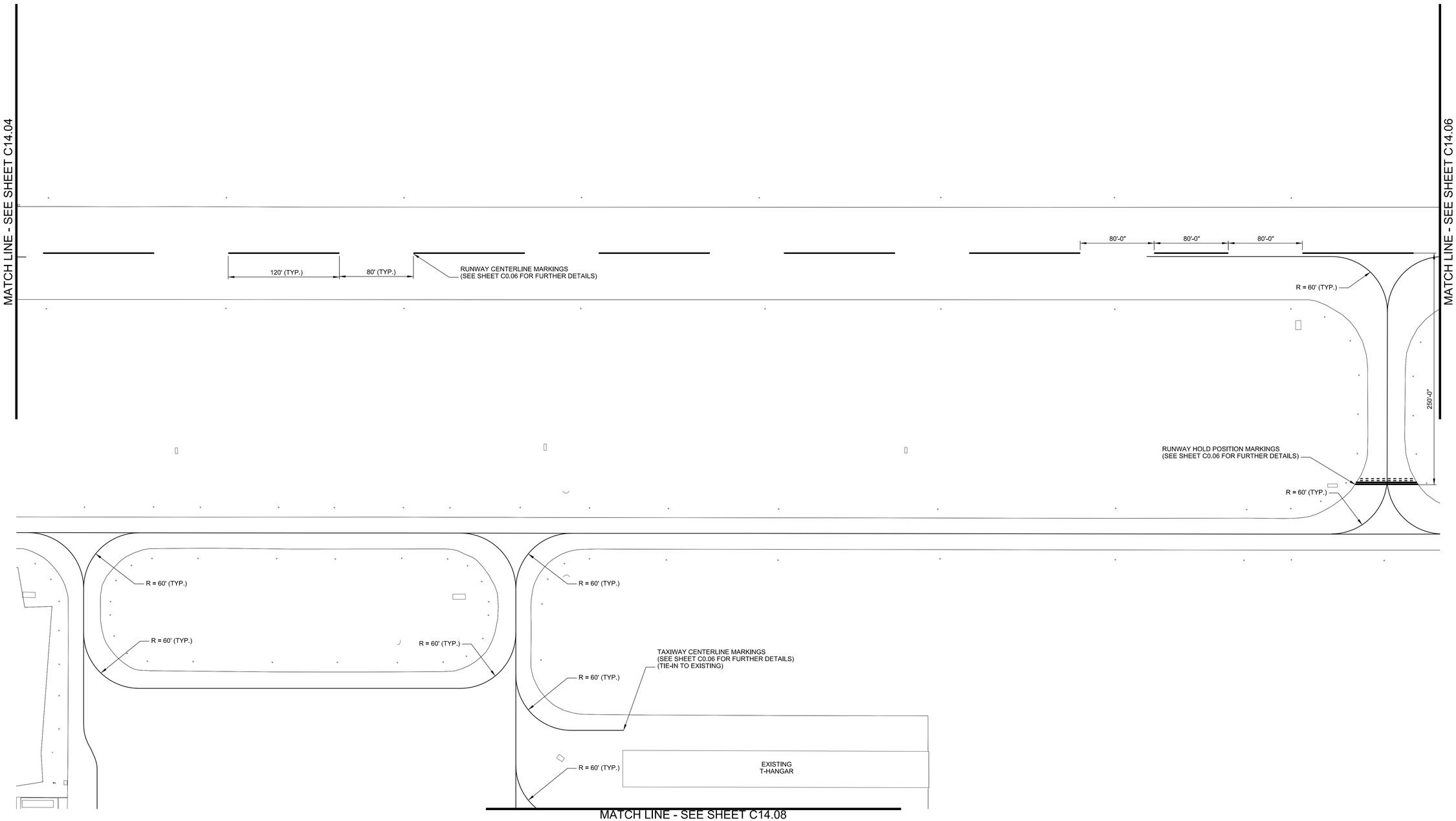
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6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
McMINN COUNTY AIRPORT, MMI
ATHENS, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

ISSUED FOR BID

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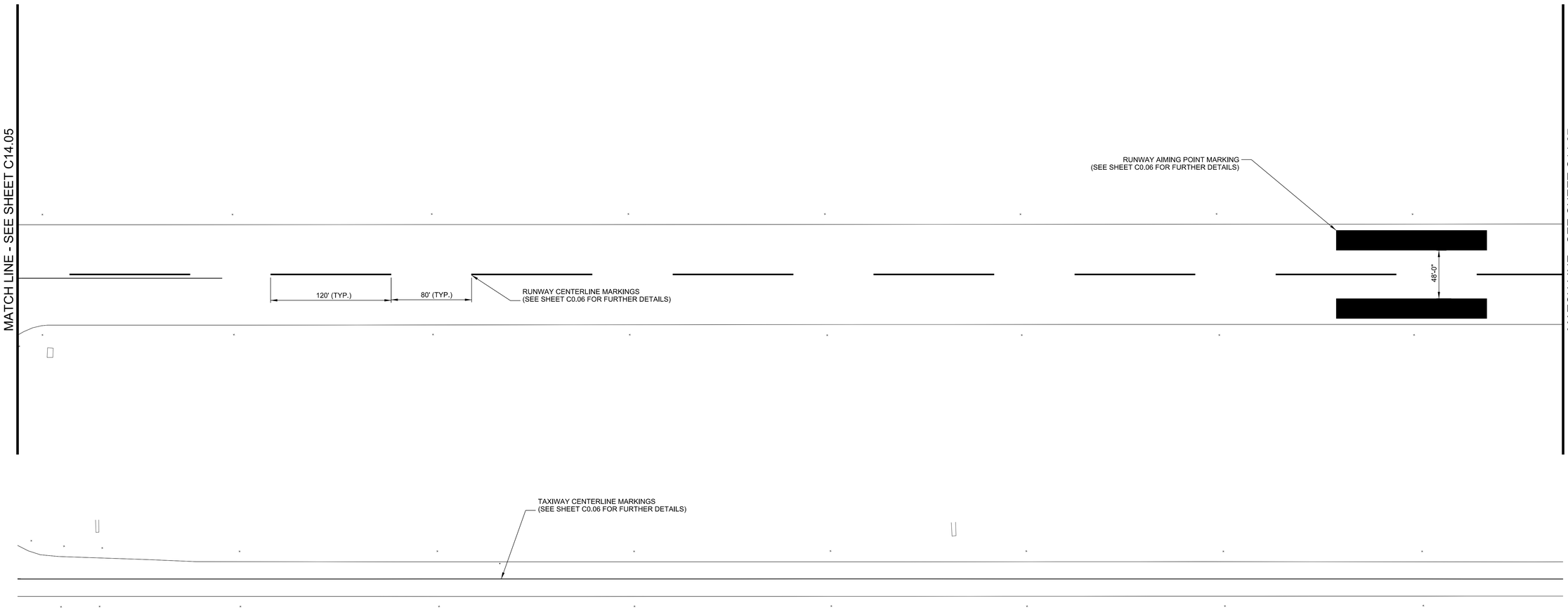
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50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET

NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
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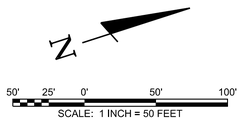
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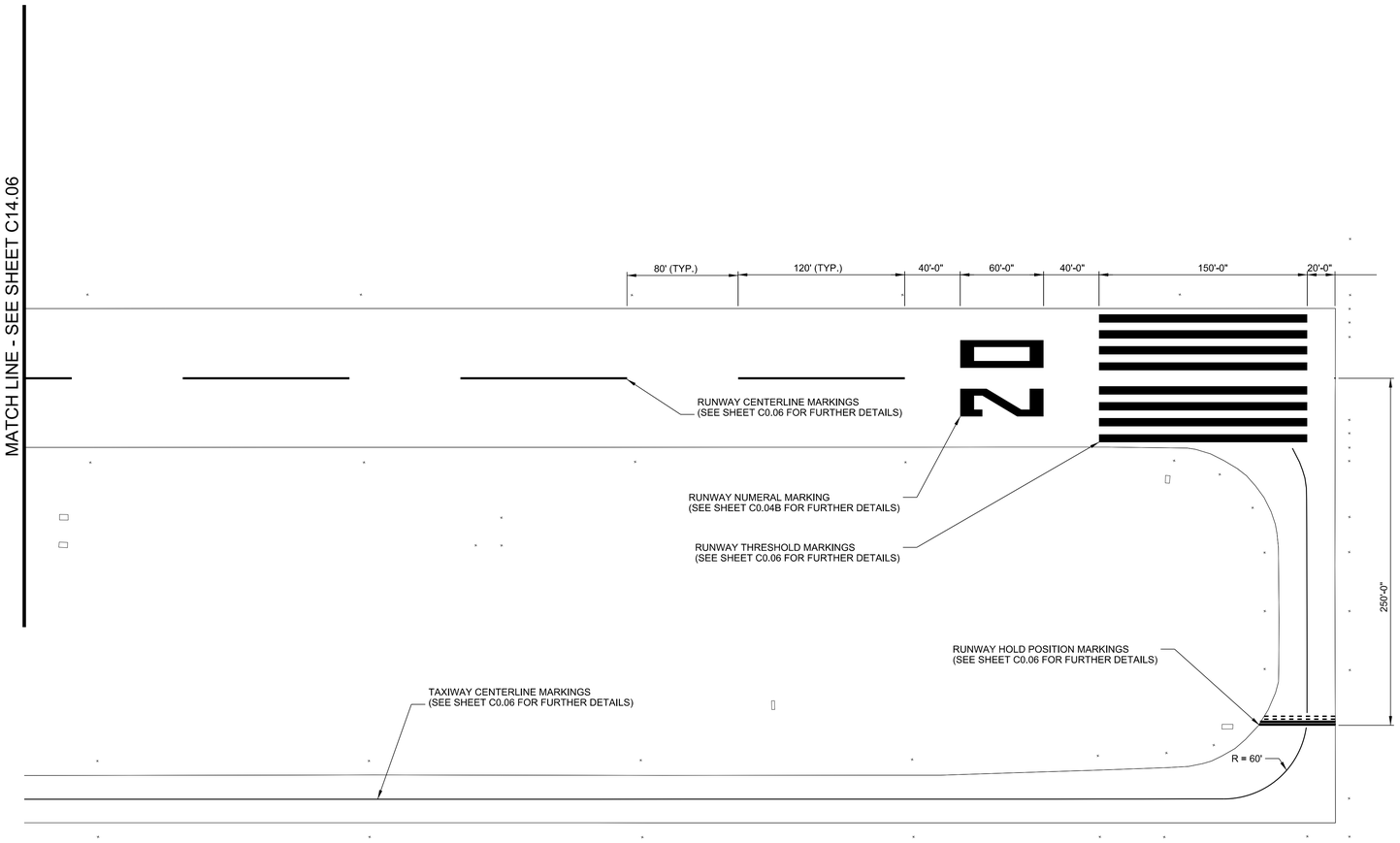
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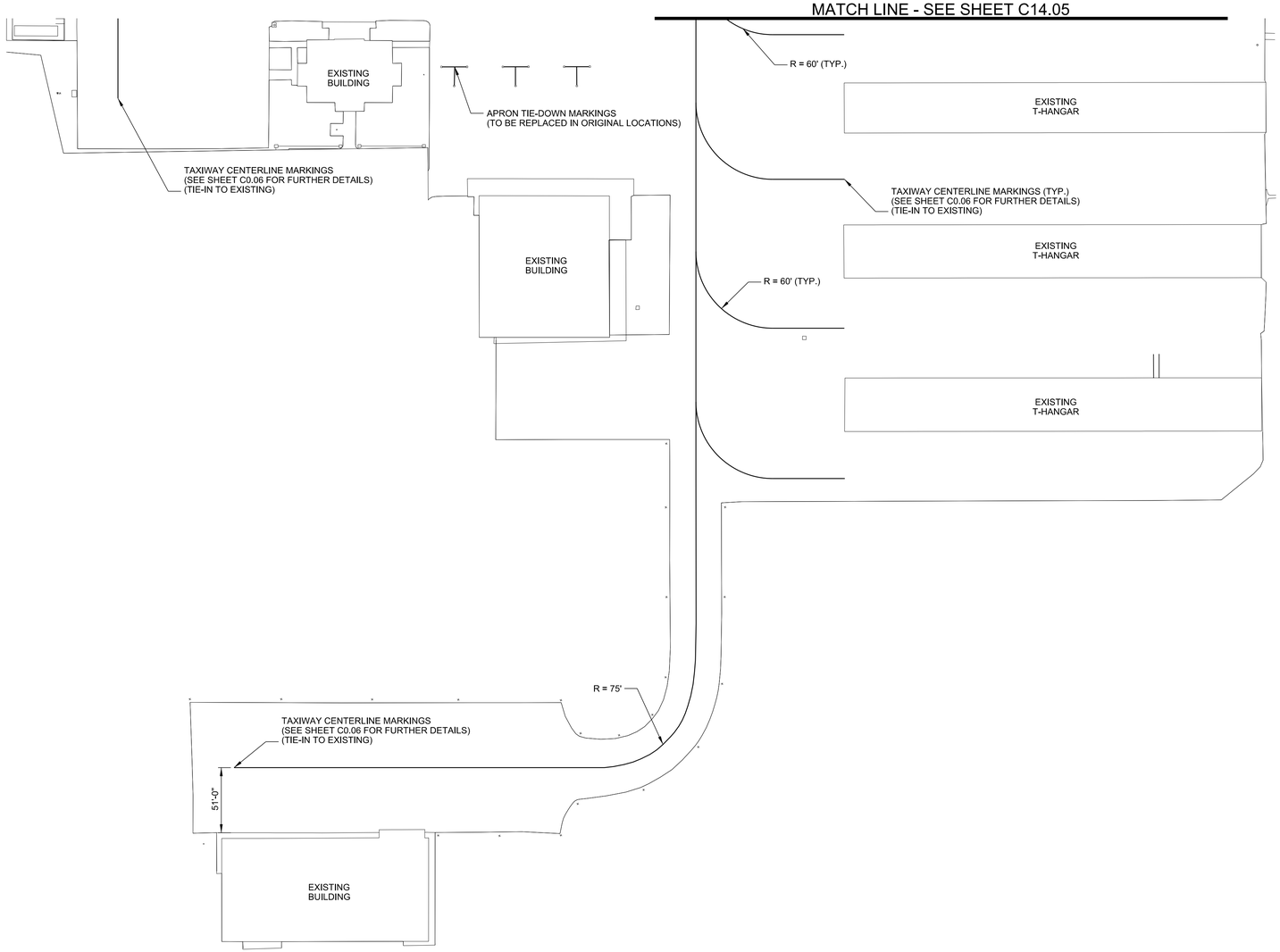
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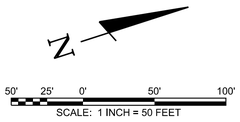
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2-11-2022

AIRFIELD MARKING PLAN

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McMINN COUNTY AIRPORT, MMI
ATHENS, TENNESSEE

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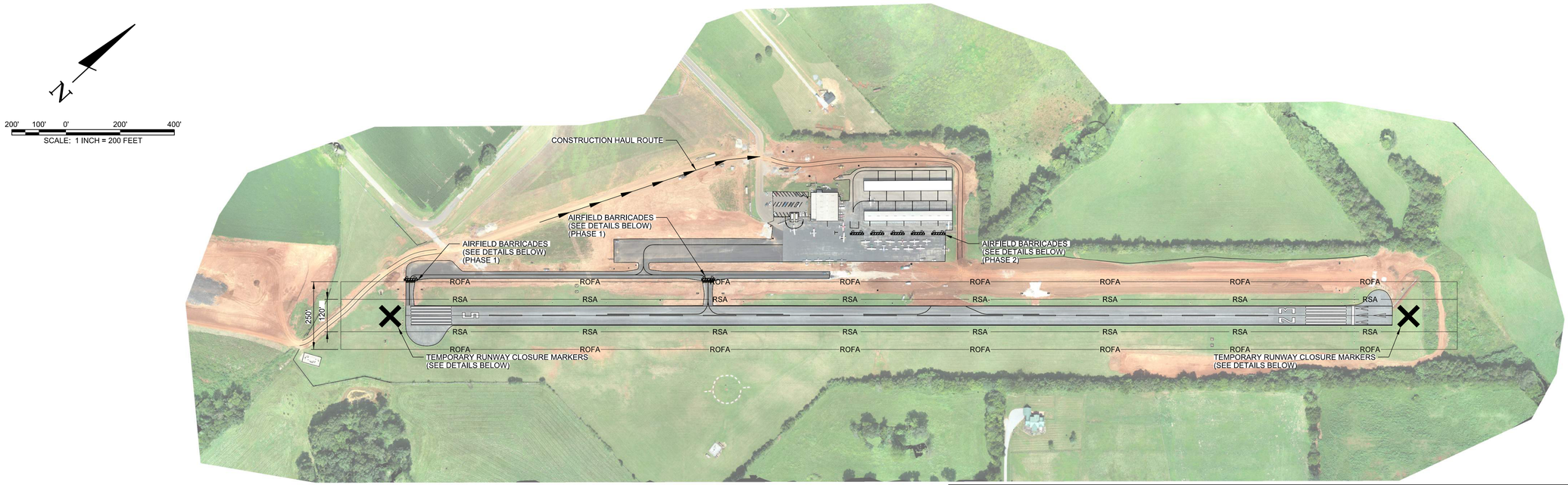
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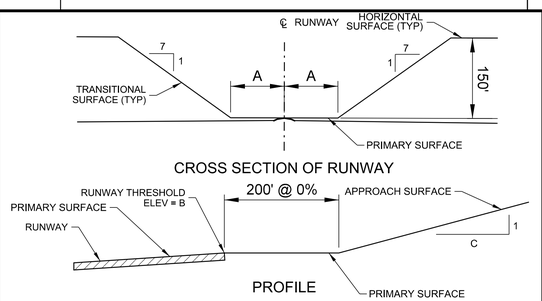
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PROJECT PHASING: 10 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	ROFA — RUNWAY OBJECT FREE AREA CONSTRUCTION HAUL ROUTE RSA — RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 123.00. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 123.00 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 60' OF THE PRIMARY RUNWAY 5-23 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 125' OF THE PRIMARY RUNWAY 5-23 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



RUNWAY END	A	B	C
5	250'	1030.95'	20
23	250'	1001.74'	20

FAR PART 77 SURFACES

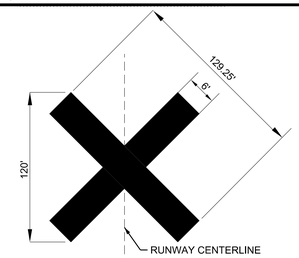
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 5-23	120'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 C15.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
TOM McCOSH
105 COLLEGE STREET, SUITE 1, MADISONVILLE, TN 37354
(423) 420-0563

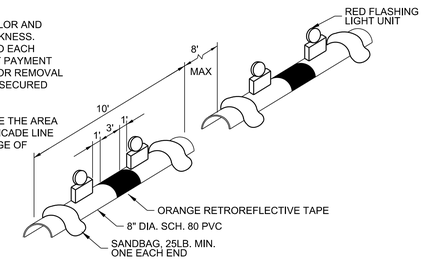
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

MADISONVILLE POLICE DEPARTMENT:
(423) 442-2268

MADISONVILLE CITY FIRE DEPARTMENT:
(423) 442-2212

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 C15.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MONROE COUNTY AIRPORT
MADISONVILLE, TENNESSEE

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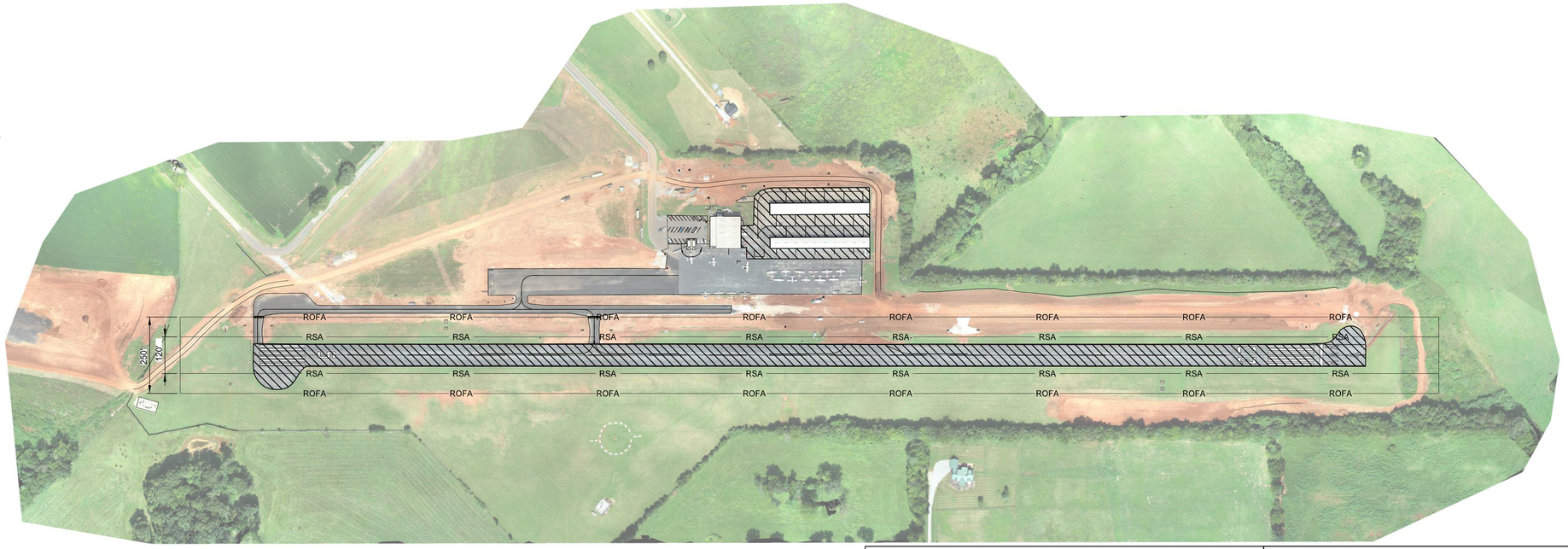
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200' 100' 0' 200' 400'

SCALE: 1 INCH = 200 FEET

PROJECT PHASING: 10 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	ROFA — RUNWAY OBJECT FREE AREA CRACK REPAIR, REMARKING, SEAL COAT RSA — RUNWAY SAFETY AREA

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	21,708	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	28,700	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	38,615	SY
P-620-5.1	TEMPORARY WHITE PAINT	16,725	SF
P-620-5.2	TEMPORARY YELLOW PAINT	1,045	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	16,725	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	1,045	SF

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MONROE COUNTY AIRPORT, MNV
MADISONVILLE, TENNESSEE

REVISION INFORMATION			
REV.	DRL	CHK	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

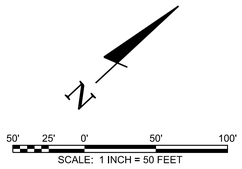
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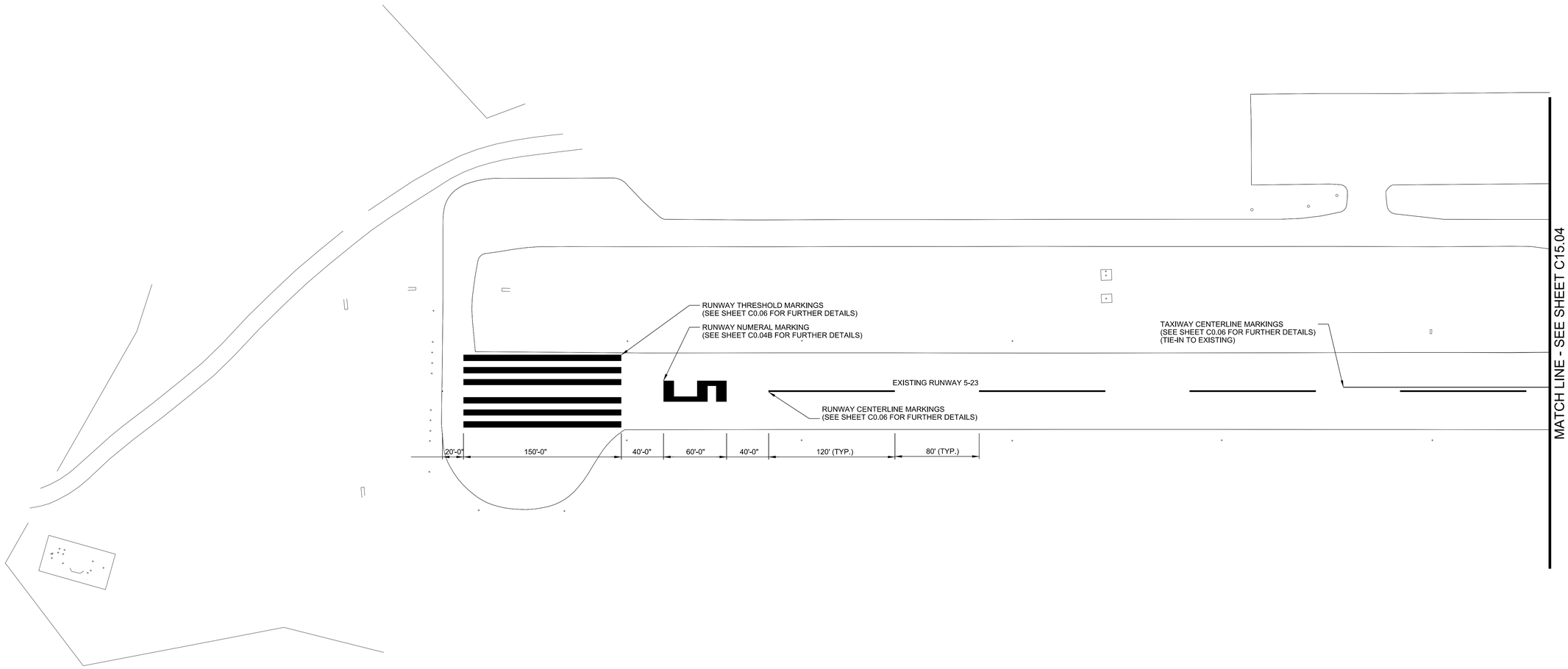
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MONROE COUNTY AIRPORT, MNV
MADISONVILLE, TENNESSEE

REV.	DR.	CHK	DATE	REVISION INFORMATION DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

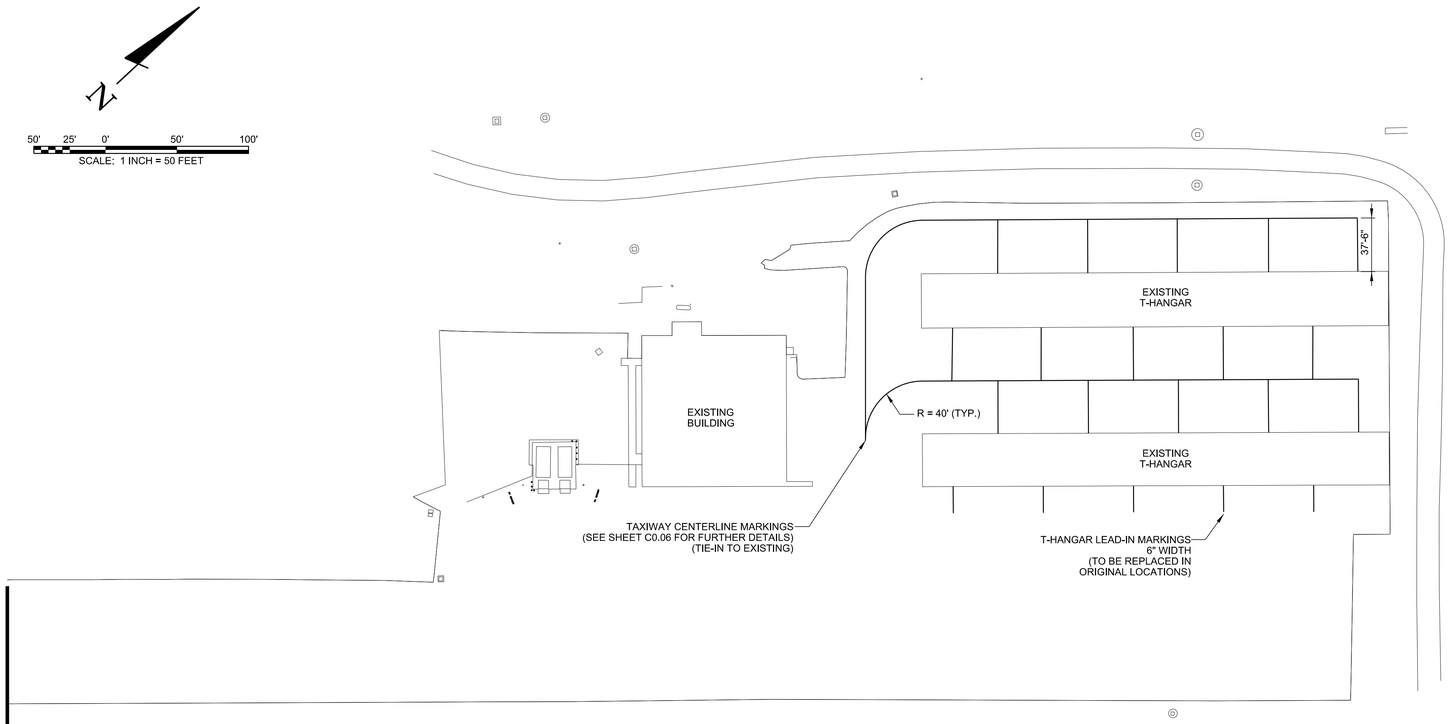
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AIRFIELD MARKING PLAN

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MADISONVILLE, TENNESSEE

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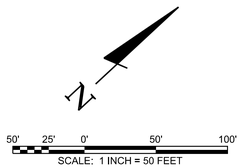
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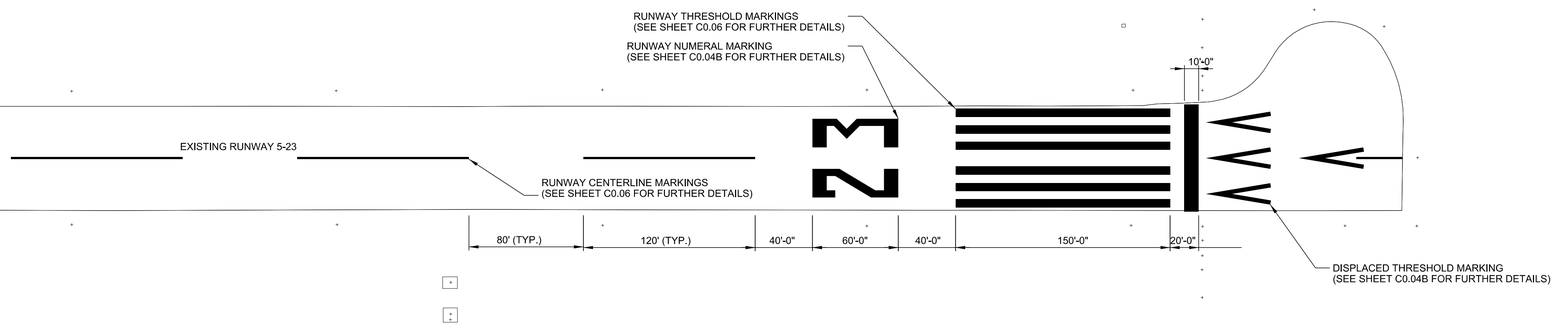
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MATCH LINE - SEE SHEET C15.04



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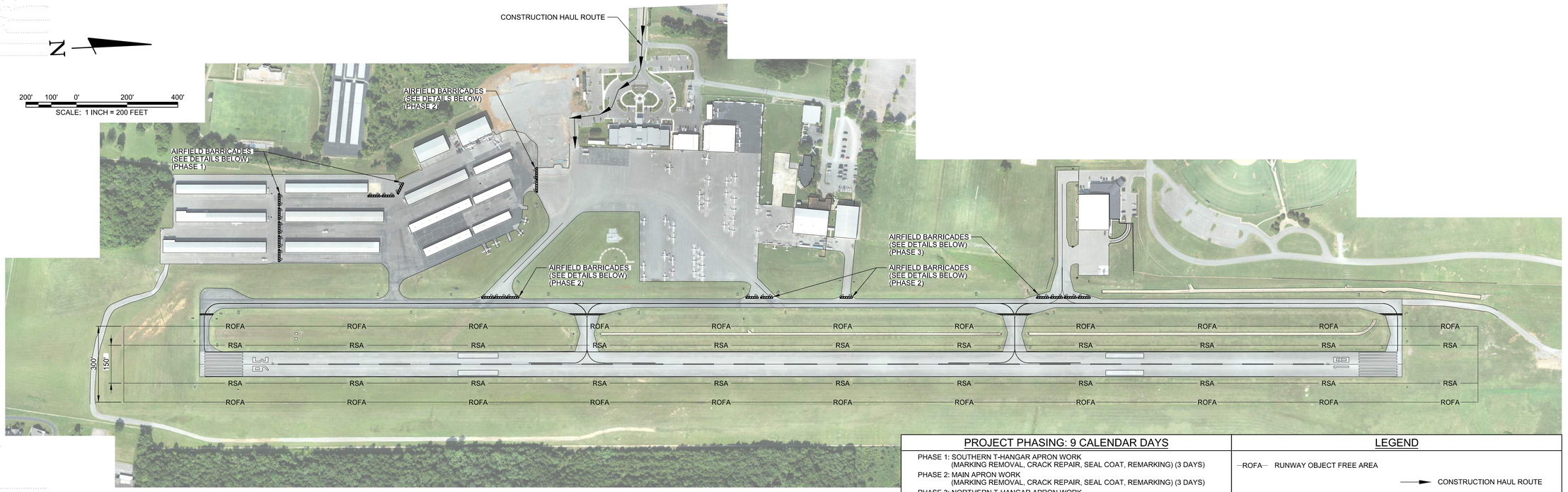
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PROJECT PHASING: 9 CALENDAR DAYS

PHASE 1: SOUTHERN T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

PHASE 2: MAIN APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

PHASE 3: NORTHERN T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

LEGEND

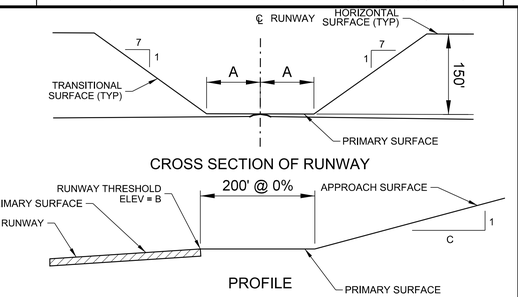
ROFA — RUNWAY OBJECT FREE AREA

RSA — RUNWAY SAFETY AREA

CONSTRUCTION HAUL ROUTE

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 123.075. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 123.075 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 18-36 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 150' OF THE PRIMARY RUNWAY 18-36 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY

PROFILE

RUNWAY END	A	B	C
18	250'	599.2'	20
36	250'	613.6'	20

FAR PART 77 SURFACES

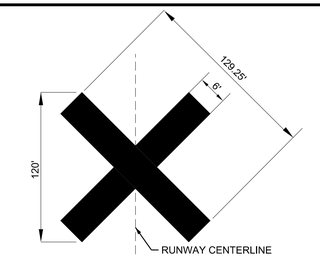
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 18-36	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C16.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
CHAD GEHRKE
1930 MEMORIAL BLVD, MURFREESBORO, TN 37129
(615) 849-6031

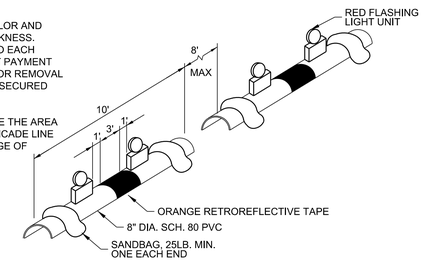
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

MURFREESBORO POLICE DEPARTMENT:
(615) 849-2673

MURFREESBORO FIRE AND RESCUE:
(615) 849-2655

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C16.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MURFREESBORO MUNICIPAL AIRPORT, MBT
MURFREESBORO, TENNESSEE

REVISION INFORMATION			
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JRM	JAC	JDG	02-11-2022
			ISSUED FOR BID

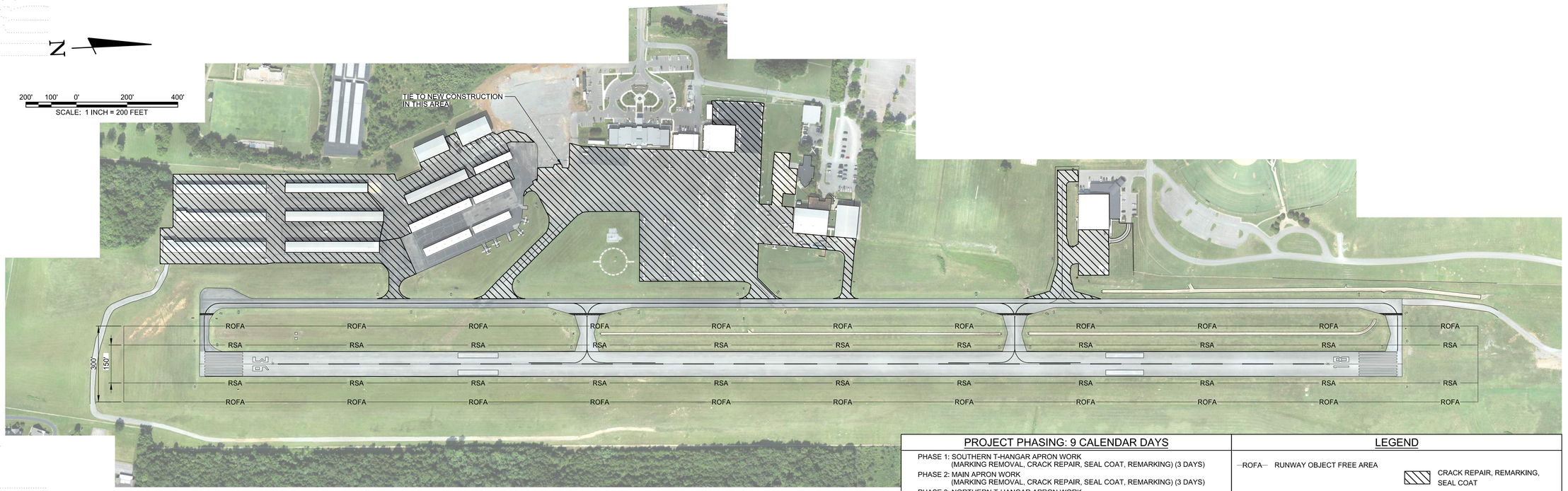
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PROJECT PHASING: 9 CALENDAR DAYS	LEGEND
PHASE 1: SOUTHERN T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS) PHASE 2: MAIN APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS) PHASE 3: NORTHERN T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA CRACK REPAIR, REMARKING, SEAL COAT — RSA— RUNWAY SAFETY AREA

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	40,578	LF
P-101-5.2	CRACK REPAIR (TYPE II)	5,878	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	835	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	98,125	SY
P-620-5.2	TEMPORARY YELLOW PAINT	835	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	835	SF

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED PROFESSIONAL ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MURFREESBORO MUNICIPAL AIRPORT, MBT
MURFREESBORO, TENNESSEE

REVISION INFORMATION			
REV.	DRL	CHK	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

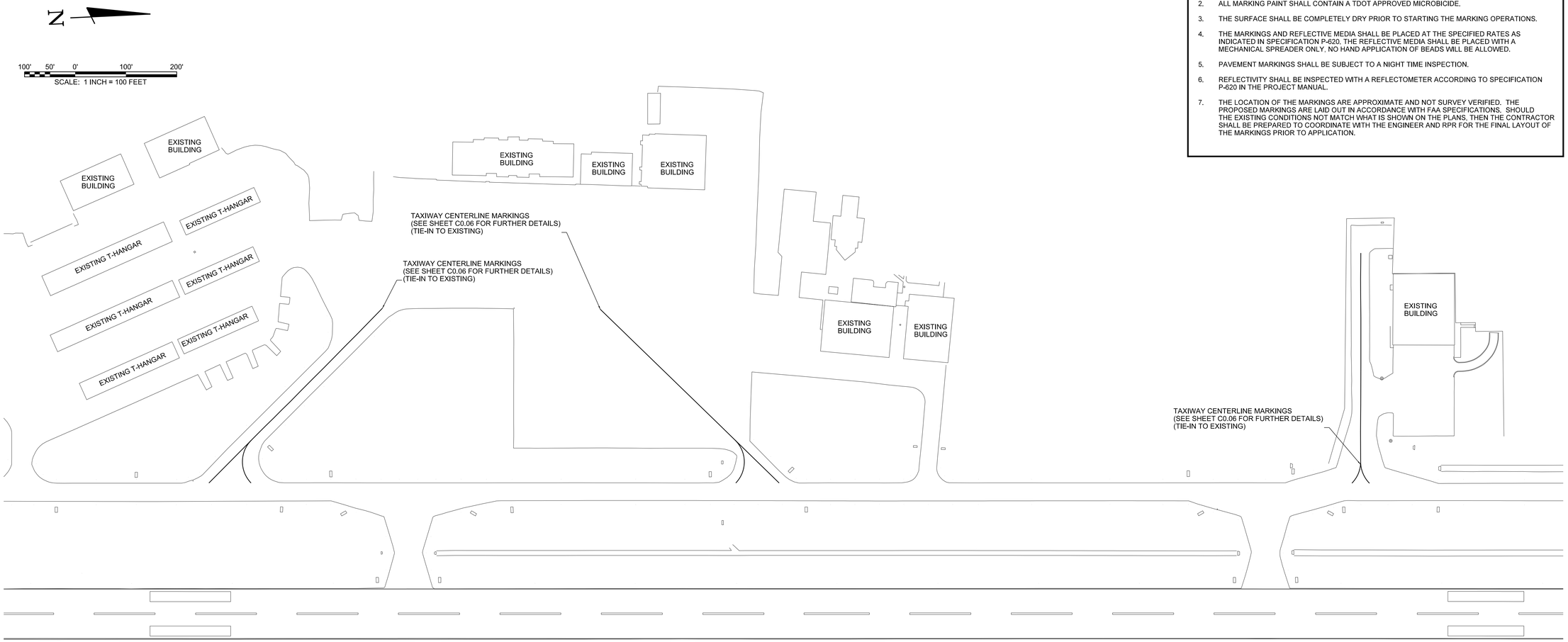
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
MURFREESBORO MUNICIPAL AIRPORT, MBT
MURFREESBORO, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

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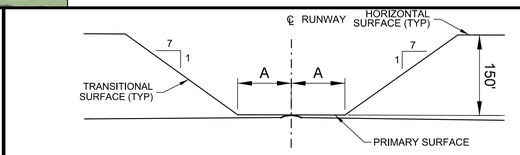
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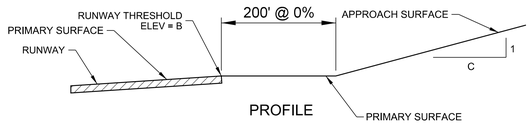
PROJECT PHASING: 11 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE) PHASE 2: T-HANGAR APRON & MAIN APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)	—ROFA— RUNWAY OBJECT FREE AREA → CONSTRUCTION HAUL ROUTE — RSA— RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 6-24 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 6-24 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
6	250'	1079.4'	34
24	250'	1084.3'	34

FAR PART 77 SURFACES

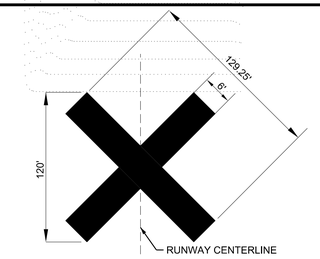
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 6-24	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C17.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
KATELYN SANDERS
338 AIRPORT LANE, SMITHVILLE, TN 37166
(615) 597-4940

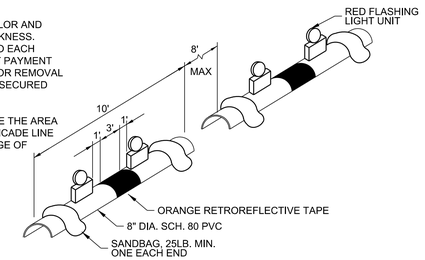
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

SMITHVILLE POLICE DEPARTMENT:
(615) 597-4089

SMITHVILLE FIRE DEPARTMENT:
(615) 597-4141

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C17.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
SMITHVILLE MUNICIPAL AIRPORT, 0A3
SMITHVILLE, TENNESSEE

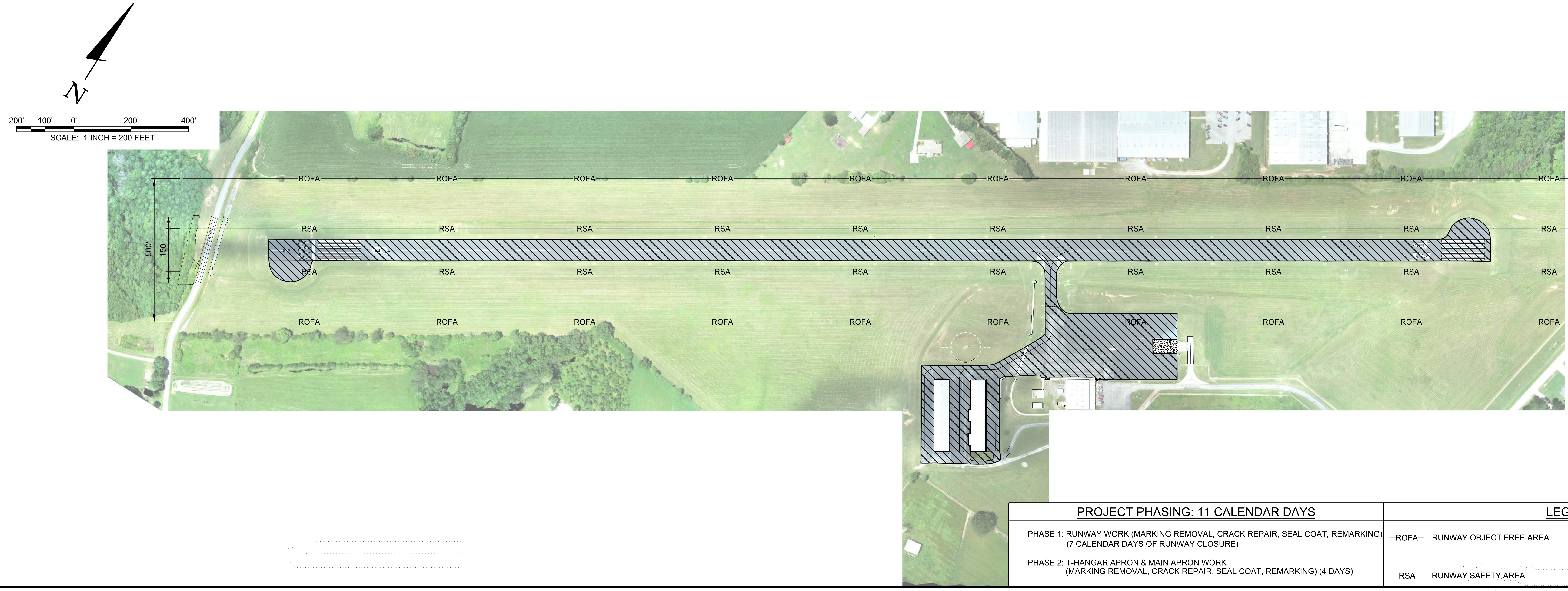
REV.	DRL	CHK	DATE	REVISION INFORMATION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

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PROJECT PHASING: 11 CALENDAR DAYS
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: T-HANGAR APRON & MAIN APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)

LEGEND	
—ROFA— RUNWAY OBJECT FREE AREA	CRACK REPAIR, REMARKING, SEAL COAT
— RSA— RUNWAY SAFETY AREA	CONCRETE JOINT REPAIR

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	30,314	LF
P-101-5.2	CRACK REPAIR (TYPE II)	2,503	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	43,575	SF
P-605-5.1	CONCRETE JOINT REPAIR	605	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	58,520	SY
P-620-5.1	TEMPORARY WHITE PAINT	17,135	SF
P-620-5.2	TEMPORARY YELLOW PAINT	900	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	17,135	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	900	SF

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PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN REGISTERED ENGINEER COMMERCE No. 121291 STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
SMITHVILLE MUNICIPAL AIRPORT, 0A3
SMITHVILLE, TENNESSEE

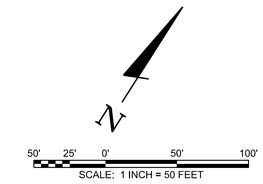
REVISION INFORMATION				
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

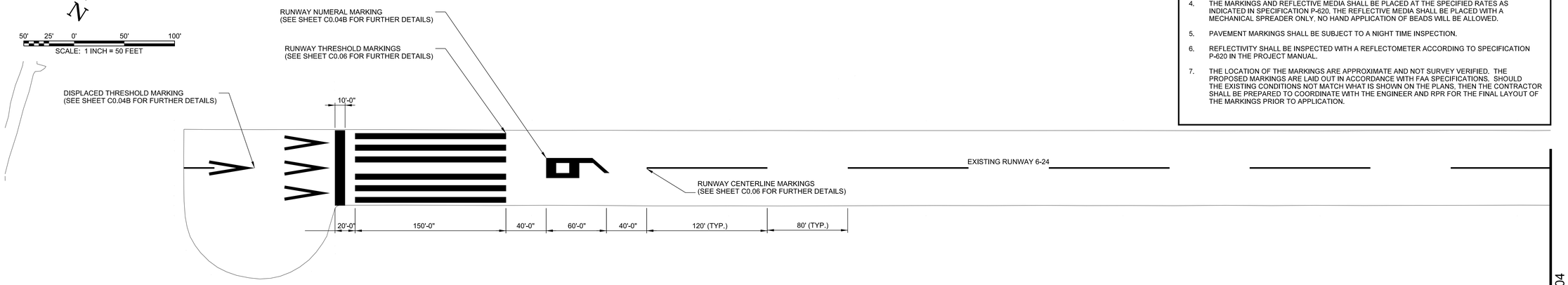
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

MATCH LINE - SEE SHEET C17.04

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PHONE (615) 254-1500 // FAX (615) 255-6572



2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
SMITHVILLE MUNICIPAL AIRPORT, 0A3
SMITHVILLE, TENNESSEE

REV.	DR.	CHK.	DATE	DESCRIPTION
	JAC	JDG	02-11-2022	ISSUED FOR BID

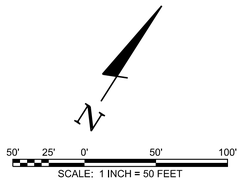
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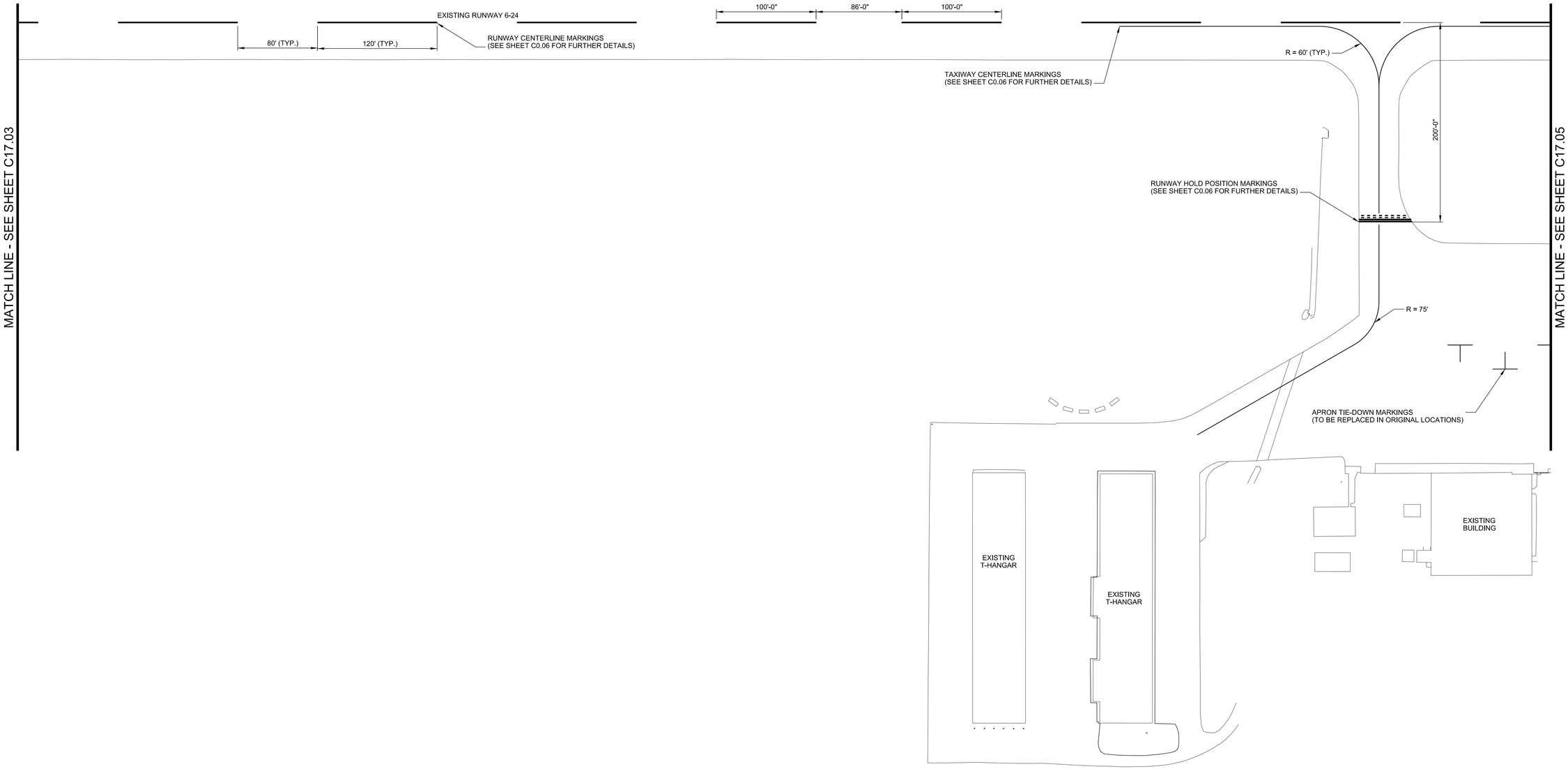
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
SMITHVILLE MUNICIPAL AIRPORT, 0A3
SMITHVILLE, TENNESSEE

REVISION INFORMATION			
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JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

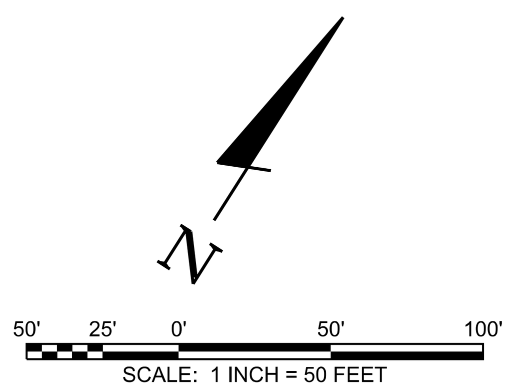
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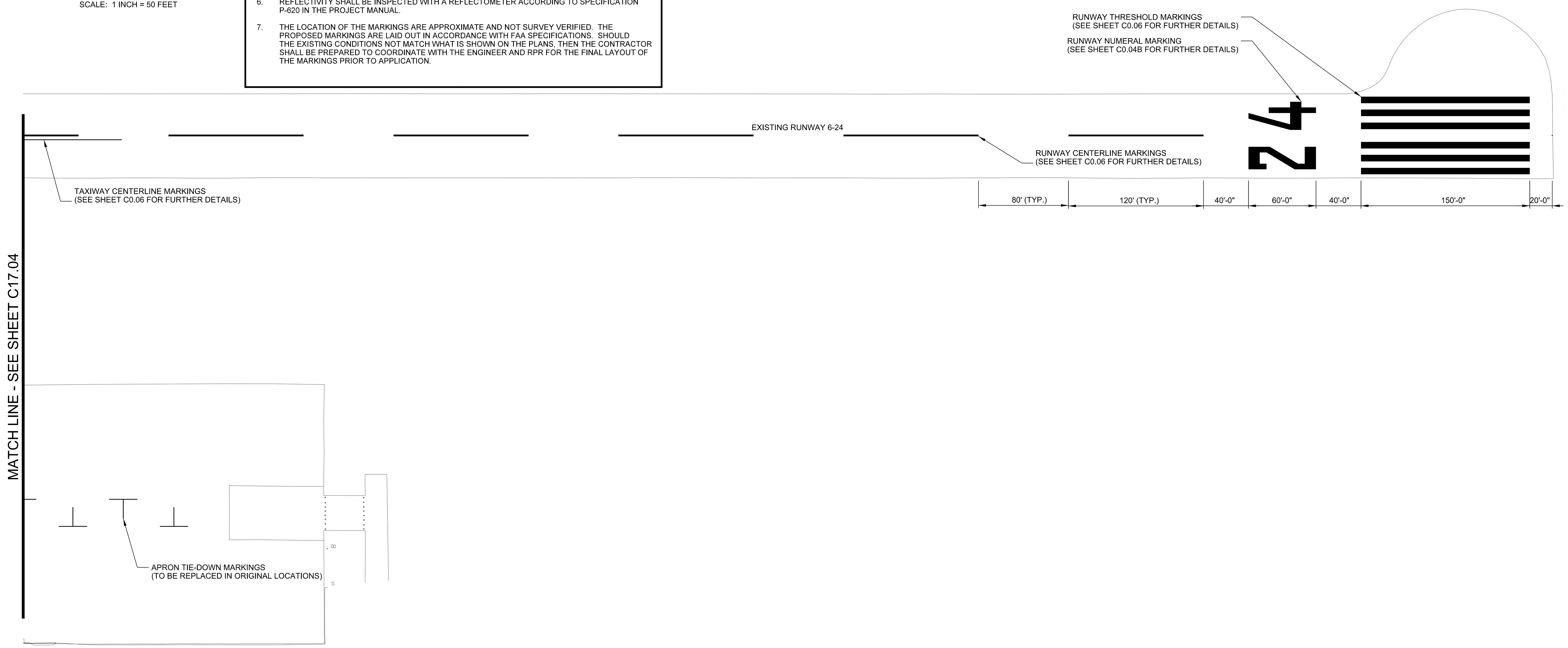
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JEREMY GREEN REGISTERED ENGINEER COMMERCE No. 121291 STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
SMITHVILLE MUNICIPAL AIRPORT, 0A3
SMITHVILLE, TENNESSEE

REVISION INFORMATION

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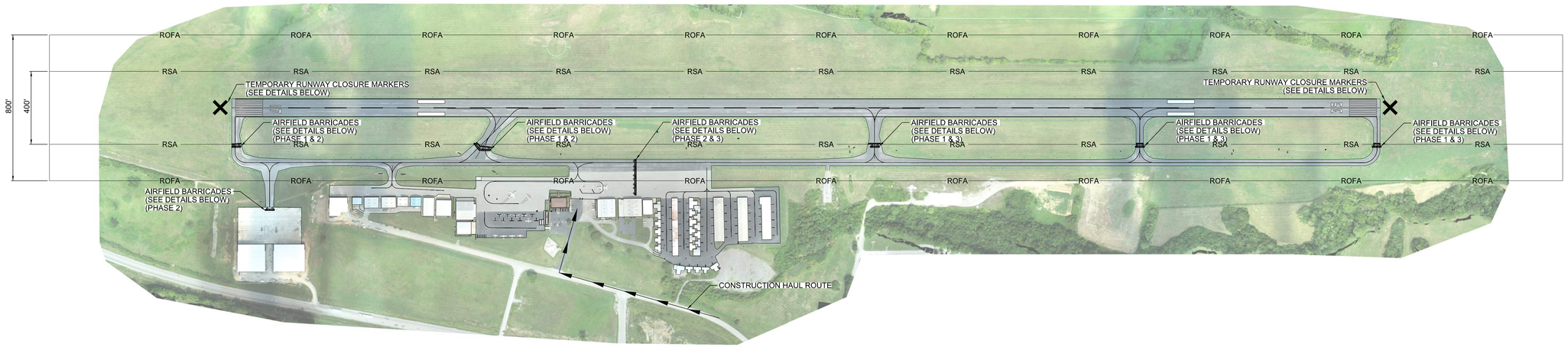
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300' 150' 0' 300' 600'

SCALE: 1 INCH = 300 FEET

PROJECT PHASING: 17 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)

PHASE 2: NORTHERN TAXIWAY & APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (5 DAYS)

PHASE 3: SOUTHERN TAXIWAY & APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (5 DAYS)

LEGEND

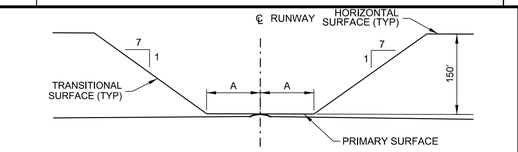
ROFA — RUNWAY OBJECT FREE AREA

CONSTRUCTION HAUL ROUTE

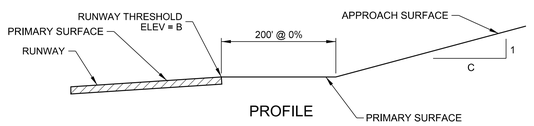
RSA — RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 123.05. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 123.05 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 200' OF THE PRIMARY RUNWAY 17-35 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 400' OF THE PRIMARY RUNWAY 17-35 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
17	200'	583.21'	34
35	200'	541.77'	34

FAR PART 77 SURFACES

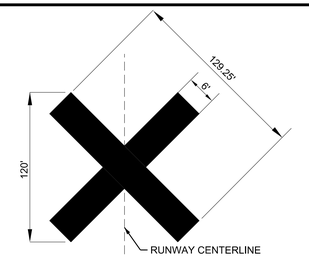
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 17-35	400'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / C18.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
JEFF DUNHAM
1475 AIRPORT ROAD, GALLATIN, TN 37066
(615) 452-7248

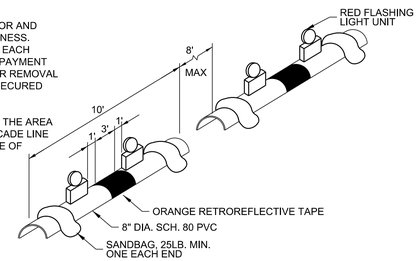
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

GALLATIN POLICE DEPARTMENT:
(615) 452-1313

GALLATIN FIRE DEPARTMENT:
(615) 452-2771

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / C18.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE III

SUMNER COUNTY - MUSIC CITY EXECUTIVE AIRPORT, XNX

GALLATIN, TENNESSEE

REVISION INFORMATION			
PREV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022
			ISSUED FOR BID

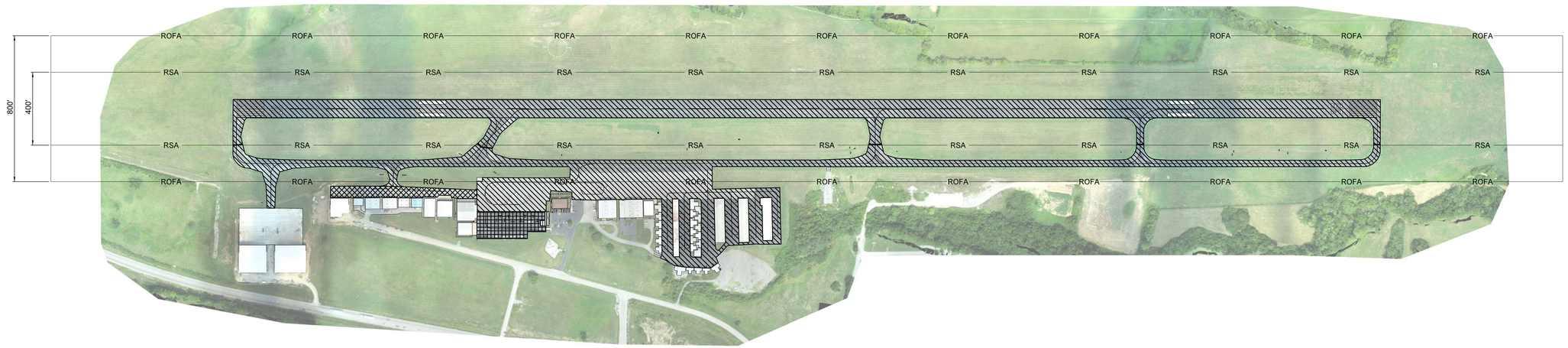
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300' 150' 0' 300' 600'
SCALE: 1 INCH = 300 FEET

PROJECT PHASING: 17 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (7 CALENDAR DAYS OF RUNWAY CLOSURE)	—ROFA— RUNWAY OBJECT FREE AREA
PHASE 2: NORTHERN TAXIWAY & APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (5 DAYS)	— RSA— RUNWAY SAFETY AREA
PHASE 3: SOUTHERN TAXIWAY & APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (5 DAYS)	CRACK REPAIR, REMARKING, SEAL COAT CRACK REPAIR ONLY SEAL COAT, REMARKING ONLY

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	67,311	LF
P-101-5.2	CRACK REPAIR (TYPE II)	204	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	61,275	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	154,315	SY
P-620-5.1	TEMPORARY WHITE PAINT	33,130	SF
P-620-5.2	TEMPORARY YELLOW PAINT	9,250	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	33,130	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	9,250	SF

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE III
SUMNER COUNTY - MUSIC CITY EXECUTIVE AIRPORT, XNX
GALLATIN, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

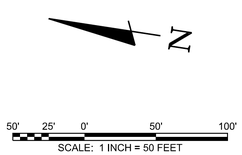
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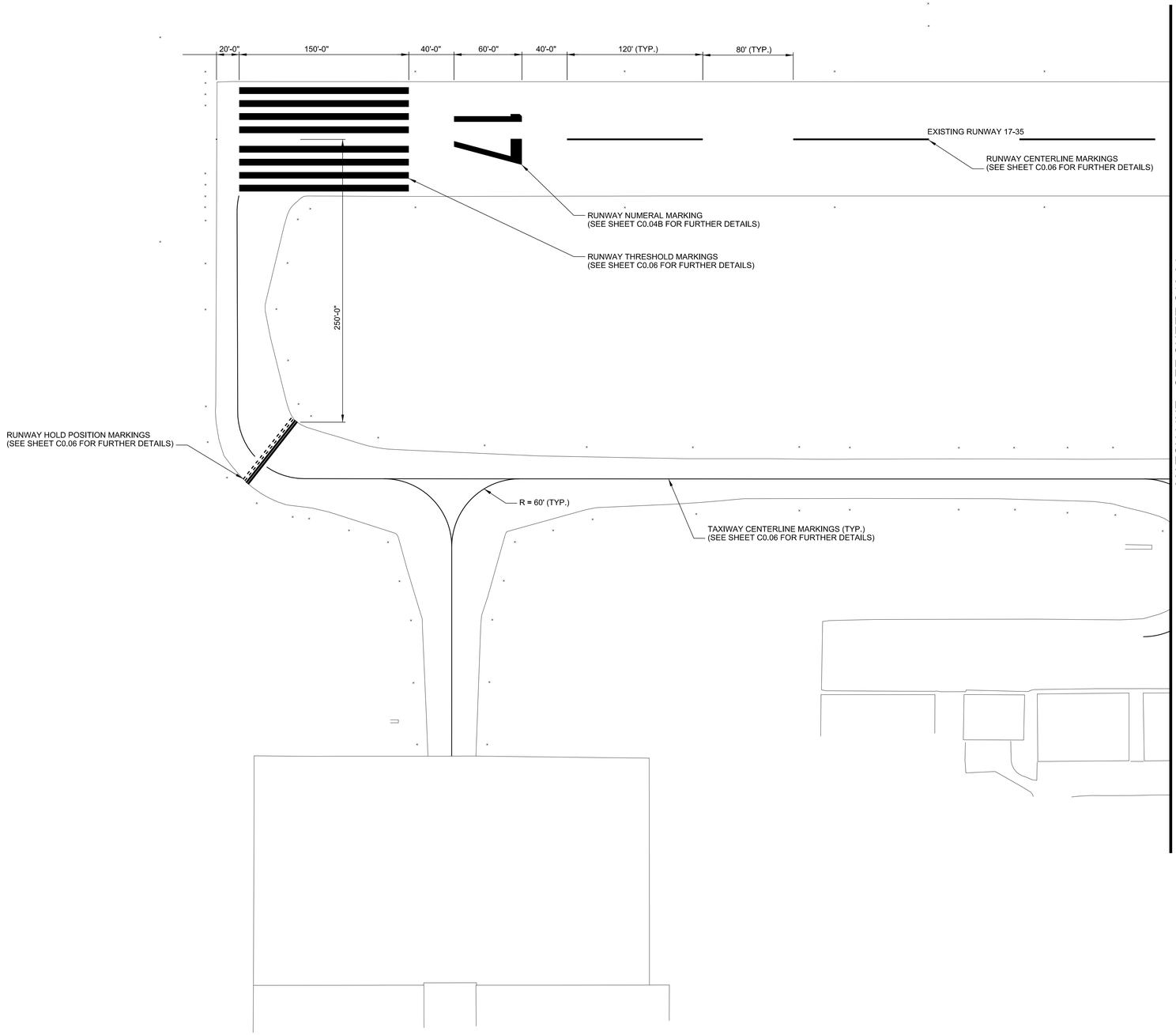
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY, NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

BARGE DESIGN SOLUTIONS
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PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE III
SUMNER COUNTY - MUSIC CITY EXECUTIVE AIRPORT, XNX
GALLATIN, TENNESSEE

REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
	JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

C18.03

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N

50' 25' 0' 50' 100'
SCALE: 1 INCH = 50 FEET

MATCH LINE - SEE SHEET C18.03

MATCH LINE - SEE SHEET C18.05

RUNWAY AIMING POINT MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

120' (TYP.)

80' (TYP.)

EXISTING RUNWAY 17-35

48'-0"

R = 75' (TYP.)

RUNWAY CENTERLINE MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

250'-0"

RUNWAY HOLD POSITION MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

R = 60' (TYP.)

TAXIWAY CENTERLINE MARKINGS (TYP.)
(SEE SHEET C0.06 FOR FURTHER DETAILS)

R = 60' (TYP.)

R = 40' (TYP.)

R = 40' (TYP.)

DUAL DASHED TAXIWAY EDGE MARKINGS
6" WIDTH,15' LENGTH, 25' SPACING
(SEE SHEET C0.04B FOR FURTHER DETAILS)

26'-5"

R = 60'

MAIN APRON PARKING MARKINGS
(TO BE REPLACED IN
ORIGINAL LOCATIONS) (TYP.)

MAIN APRON PARKING MARKINGS
(TO BE REPLACED IN
ORIGINAL LOCATIONS) (TYP.)

R = 40'

EXISTING BUILDING

NOTES:

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3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
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5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE III
SUMNER COUNTY - MUSIC CITY EXECUTIVE AIRPORT, XNX
GALLATIN, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

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50' 25' 0' 50' 100'
SCALE: 1 INCH = 50 FEET

MATCH LINE - SEE SHEET C18.04

MATCH LINE - SEE SHEET C18.06

EXISTING RUNWAY 17-35

120' (TYP.)

80' (TYP.)

80'-0"

80'-0"

80'-0"

RUNWAY CENTERLINE MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

R = 60' (TYP.)

250'-0"

RUNWAY HOLD POSITION MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

R = 60' (TYP.)

R = 40' (TYP.)

TAXIWAY CENTERLINE MARKINGS (TYP.)
(SEE SHEET C0.06 FOR FURTHER DETAILS)

DUAL DASHED TAXIWAY EDGE MARKINGS
6" WIDTH,15' LENGTH, 25' SPACING
(SEE SHEET C0.04B FOR FURTHER DETAILS)

R = 40' (TYP.)

R = 40' (TYP.)

EXISTING T-HANGAR

EXISTING T-HANGAR

EXISTING T-HANGAR

EXISTING T-HANGAR

EXISTING T-HANGAR

30'-0"

30'-6"

NOTES:

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE III
SUMNER COUNTY - MUSIC CITY EXECUTIVE AIRPORT, XNX
GALLATIN, TENNESSEE

REVISION INFORMATION

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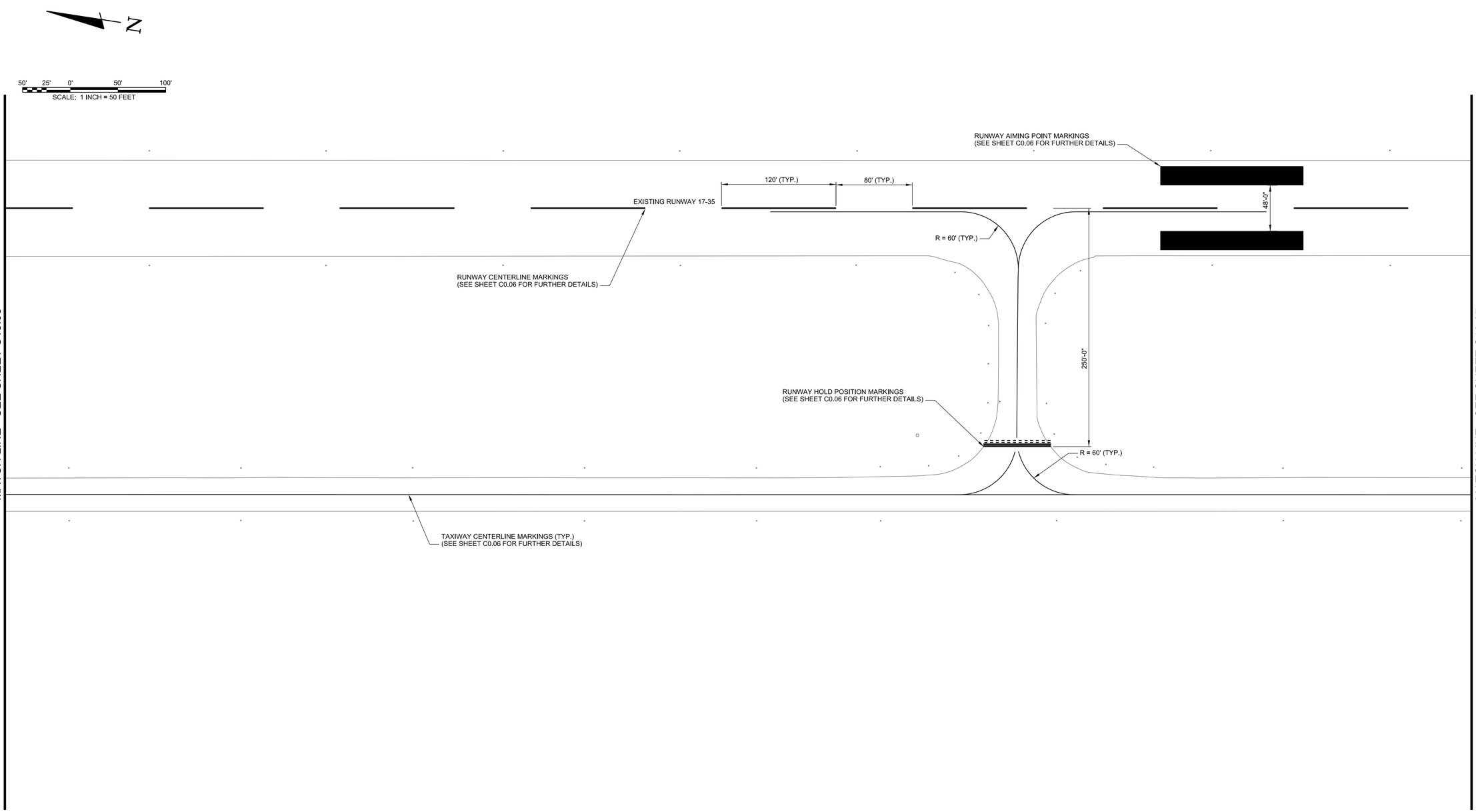
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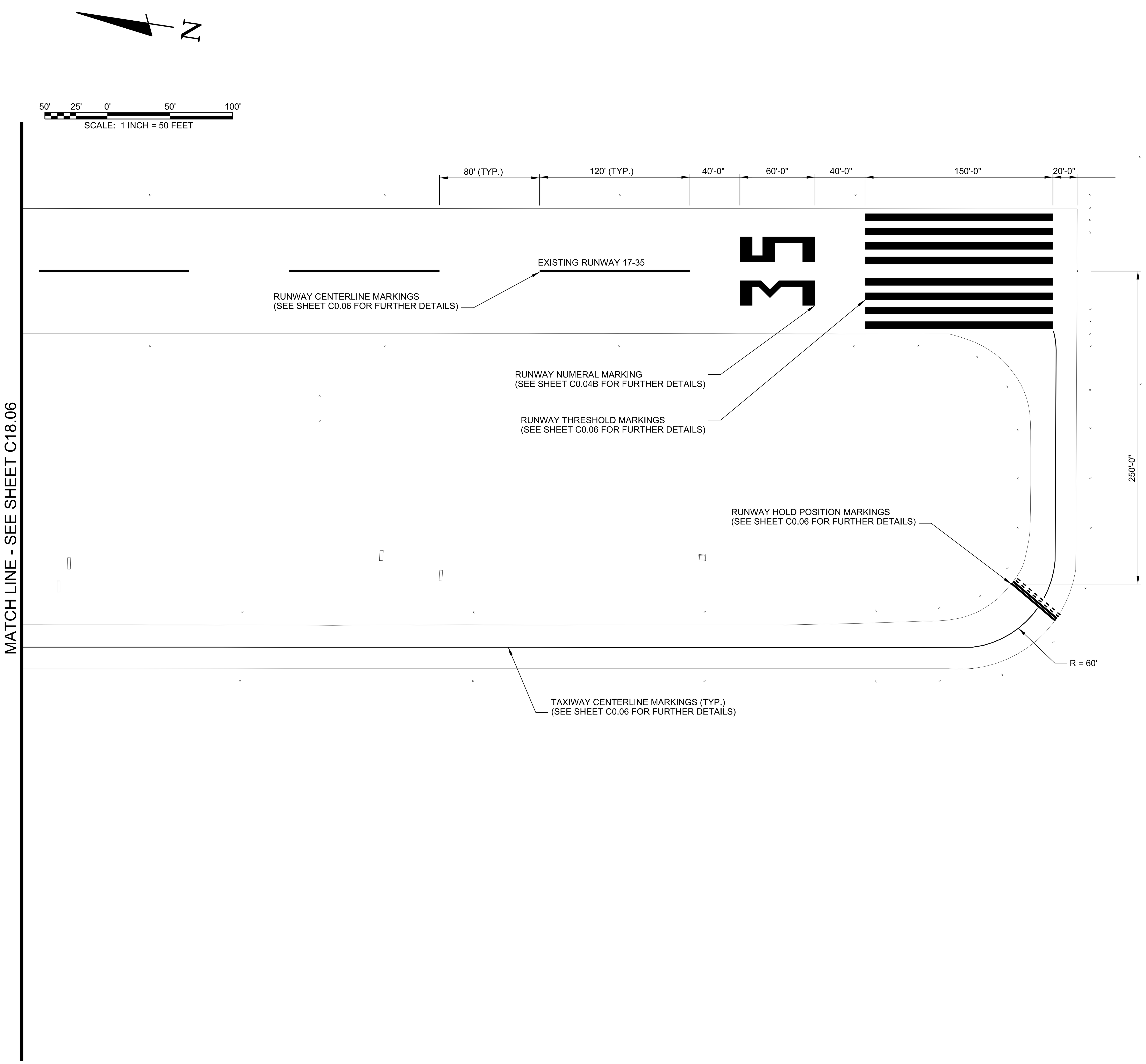
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JEREMY GREEN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 121291 STATE OF TENNESSEE

2-11-2022

AIRFIELD MARKING PLAN

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SUMNER COUNTY - MUSIC CITY EXECUTIVE AIRPORT, XNX
GALLATIN, TENNESSEE

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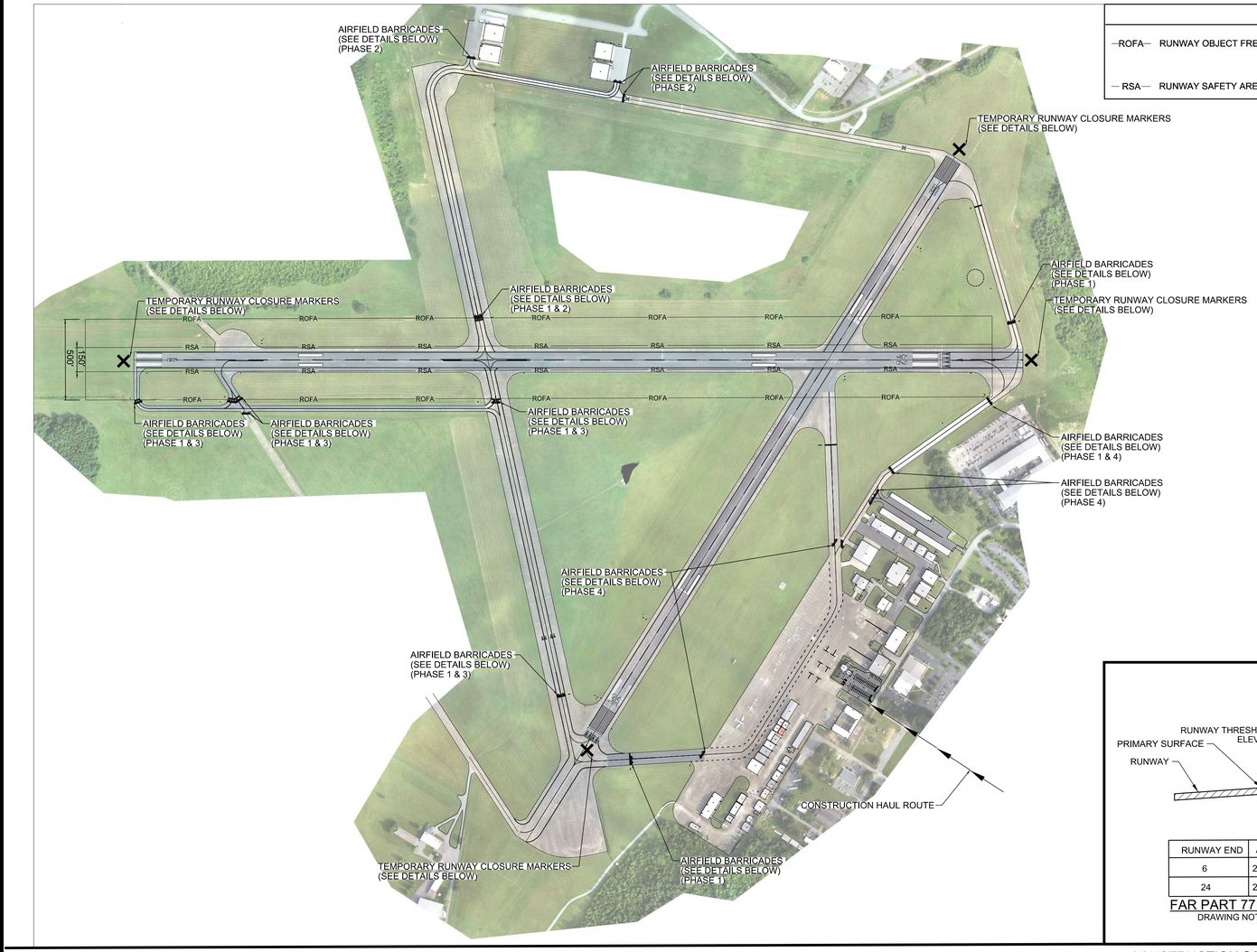
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LEGEND

ROFA — RUNWAY OBJECT FREE AREA

RSA — RUNWAY SAFETY AREA

CONSTRUCTION HAUL ROUTE

N

400' 200' 0' 400' 800'

SCALE: 1 INCH = 400 FEET

AIRPORT CONTACT INFORMATION:
JOHN GLASS
P.O. BOX 1584, TULLAHOMA, TN 37388
(931) 455-3884

LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

TULLAHOMA POLICE DEPARTMENT:
(931) 455-0530

TULLAHOMA FIRE DEPARTMENT:
(931) 455-0936

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

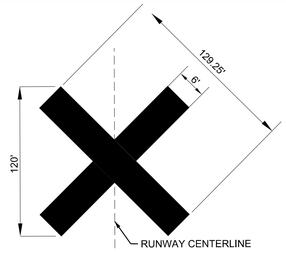
PROJECT PHASING: 21 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)

PHASE 2: NORTHERN TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)

PHASE 3: SOUTHERN TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)

PHASE 4: SOUTHERN MAIN APRON & T-HANGAR WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)

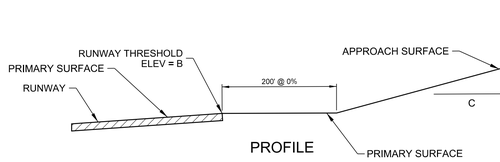


1 C19.01 RUNWAY CLOSURE MARKER

SCALE: N.T.S.

NOTES:

1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.



PROFILE

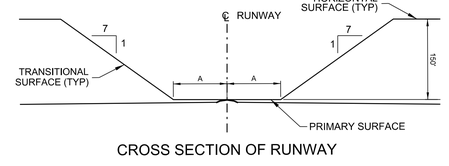
RUNWAY END	A	B	C
6	250'	1,083.20'	34
24	250'	1,080.90'	34

FAR PART 77 SURFACES
DRAWING NOT TO SCALE

PAVEMENT	SAFETY AREA WIDTH*
R/W 6-24	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



CROSS SECTION OF RUNWAY

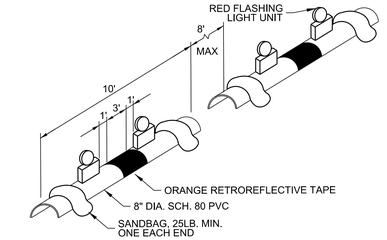
NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES, ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 123.00. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 123.00 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 6-24 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 6-24 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.

NOTES:

1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 C19.01 AIRFIELD BARRICADE DETAIL

SCALE: N.T.S.

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JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TULLAHOMA REGIONAL AIRPORT, THA
TULLAHOMA, TENNESSEE

REV	DR.	CHK	DATE	REVISION INFORMATION
	JAC	JDG	02-11-2022	ISSUED FOR BID
	JRM			

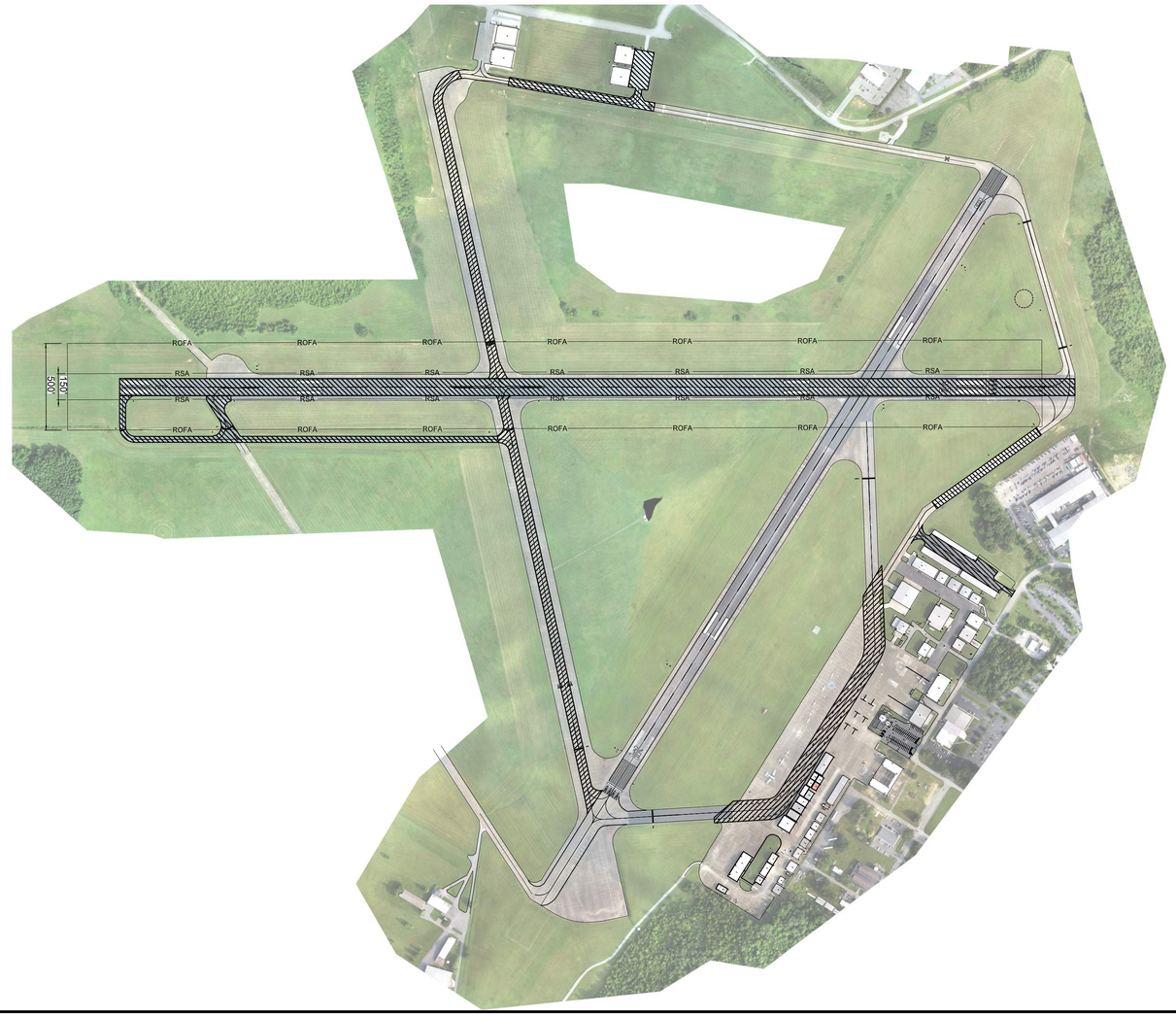
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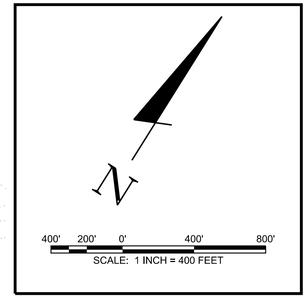
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LEGEND	
—ROFA— RUNWAY OBJECT FREE AREA	CRACK REPAIR, REMARKING, SEAL COAT
— RSA— RUNWAY SAFETY AREA	REMARKING ONLY
	SEAL COAT, REMARKING ONLY

PROJECT PHASING: 21 CALENDAR DAYS

PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)

PHASE 2: NORTHERN TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)

PHASE 3: SOUTHERN TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)

PHASE 4: SOUTHERN MAIN APRON & T-HANGAR WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	72,063	LF
P-101-5.2	CRACK REPAIR (TYPE II)	7,838	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	117,105	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	88,985	SY
P-620-5.1	TEMPORARY WHITE PAINT	66,880	SF
P-620-5.2	TEMPORARY YELLOW PAINT	21,930	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	66,880	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	21,930	SF
P-620-5.5	BLACK PAINT	28,305	SF
P-620-5.6	RED PAINT WITH REFLECTIVE MEDIA	625	SF

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STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TULLAHOMA REGIONAL AIRPORT, THA
TULLAHOMA, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

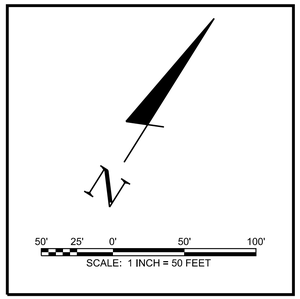
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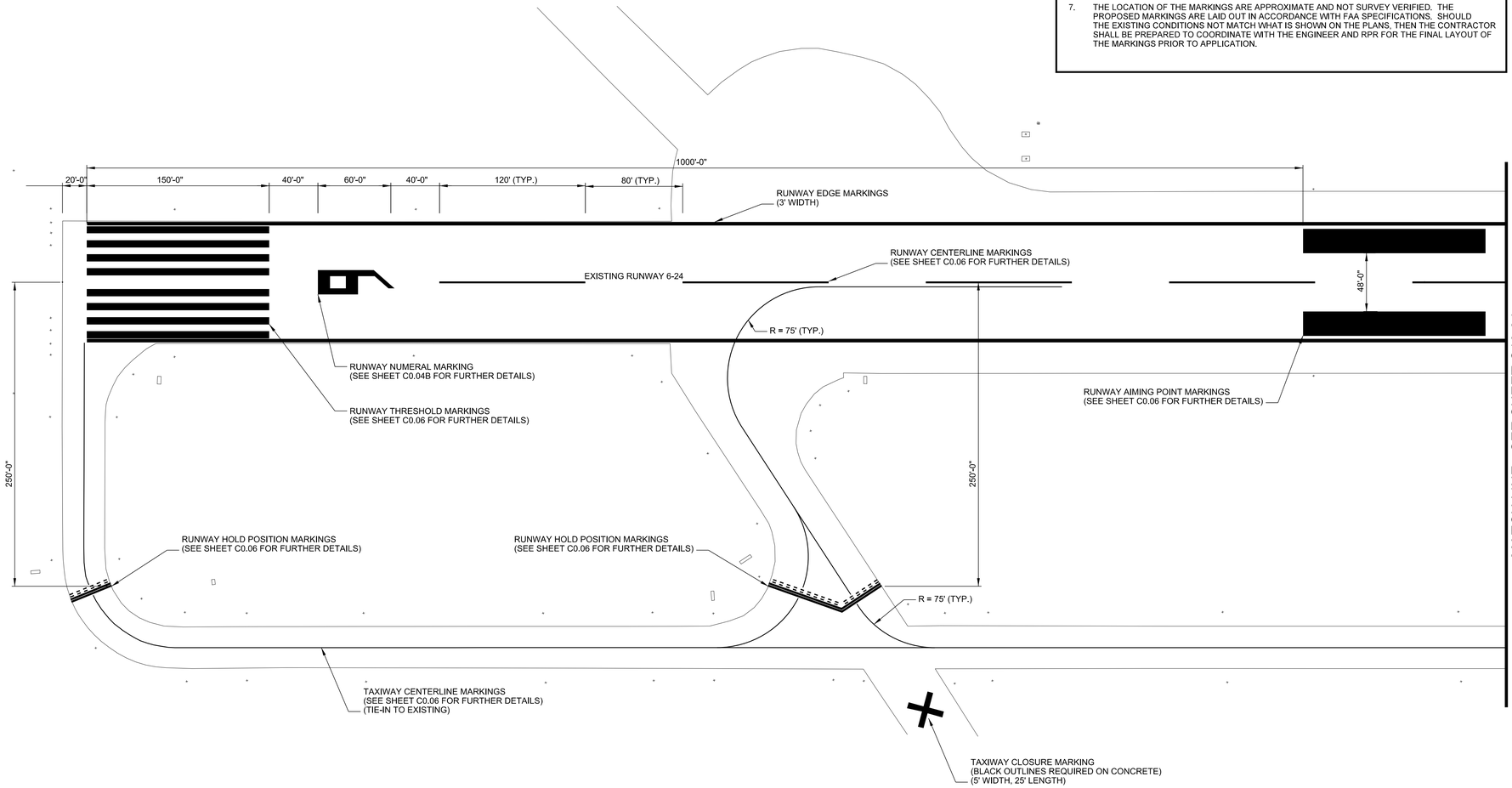
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TULLAHOMA REGIONAL AIRPORT, THA
TULLAHOMA, TENNESSEE

REV.	DR.	CHK.	DATE	REVISION INFORMATION DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

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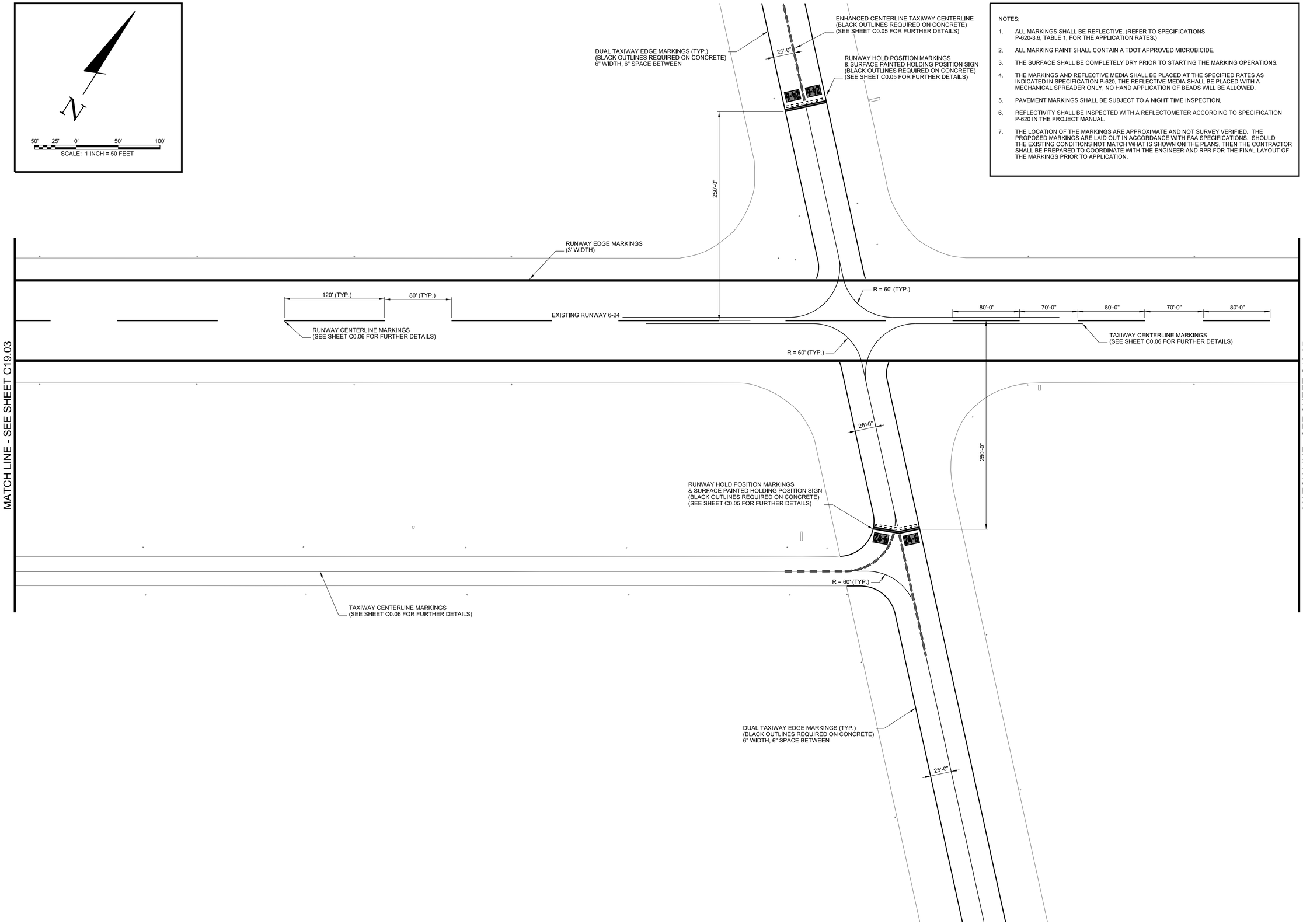
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REVISION INFORMATION			
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1	ISSUED FOR BID	02-11-2022	JDG

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JRM	JAC	JDG

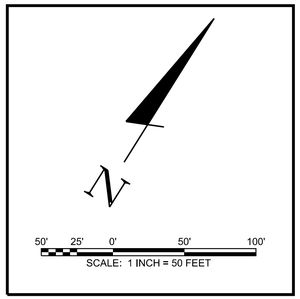
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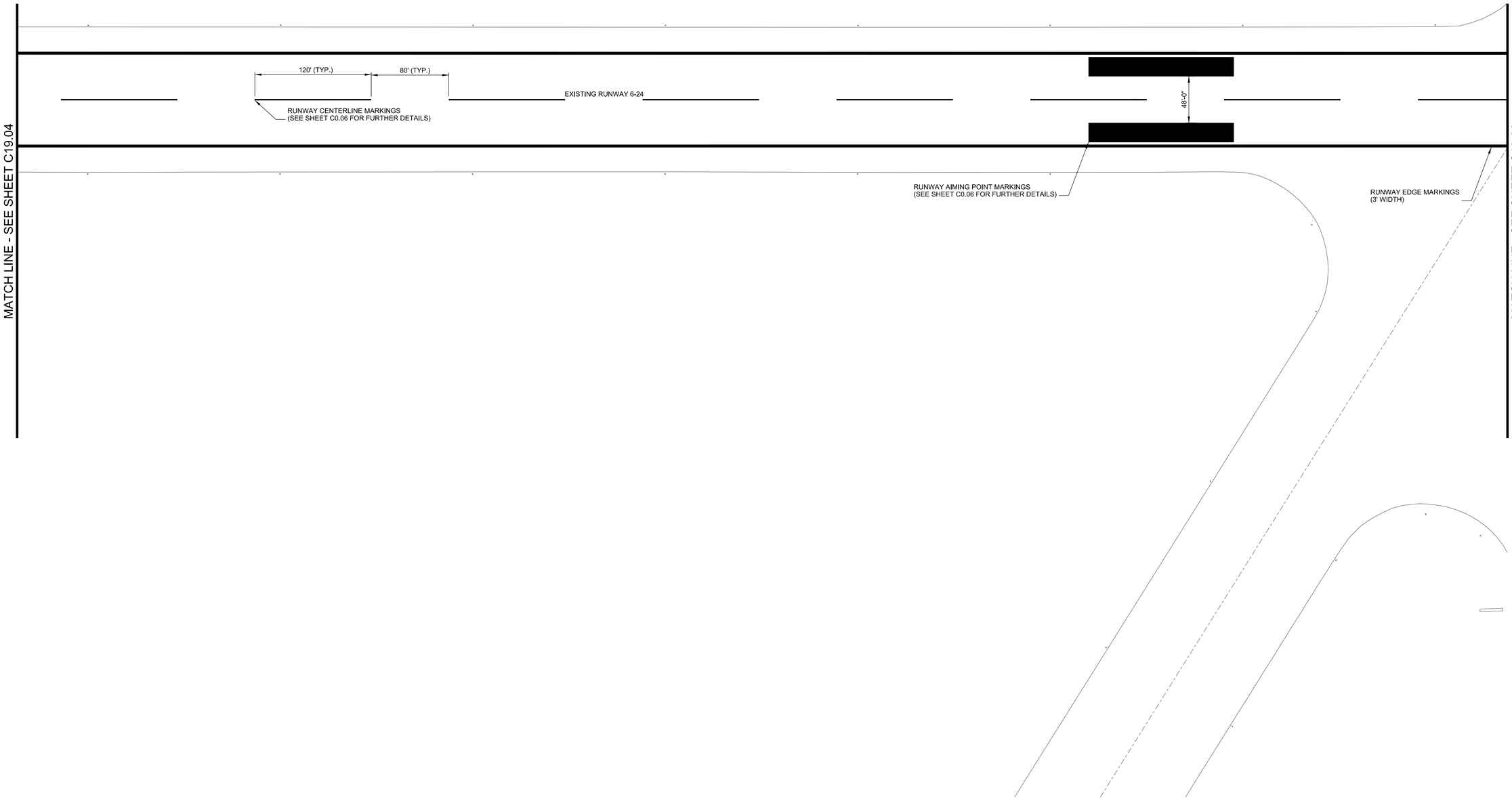
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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TULLAHOMA REGIONAL AIRPORT, THA
TULLAHOMA, TENNESSEE

REVISION INFORMATION			
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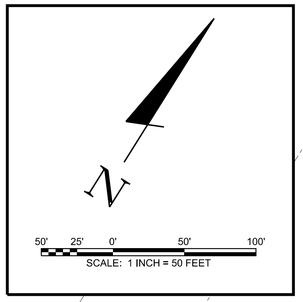
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MATCH LINE - SEE SHEET C19.05

DISPLACED THRESHOLD MARKING
(SEE SHEET C0.04B FOR FURTHER DETAILS)

80' (TYP.) 120' (TYP.) 40'-0" 60'-0" 40'-0" 150'-0" 20'-0"

TAXIWAY CENTERLINE MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)
(TIE-IN TO EXISTING)

EXISTING RUNWAY 6-24

RUNWAY CENTERLINE MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

24

RUNWAY EDGE MARKINGS
(3' WIDTH)

RUNWAY NUMERAL MARKING
(SEE SHEET C0.04B FOR FURTHER DETAILS)

RUNWAY THRESHOLD MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)

TAXIWAY CENTERLINE MARKINGS
(SEE SHEET C0.06 FOR FURTHER DETAILS)
(TIE-IN TO EXISTING)

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AIRFIELD MARKING PLAN

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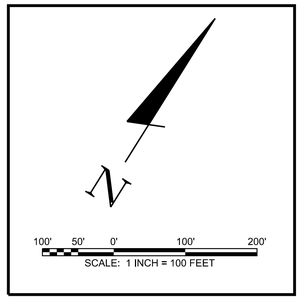
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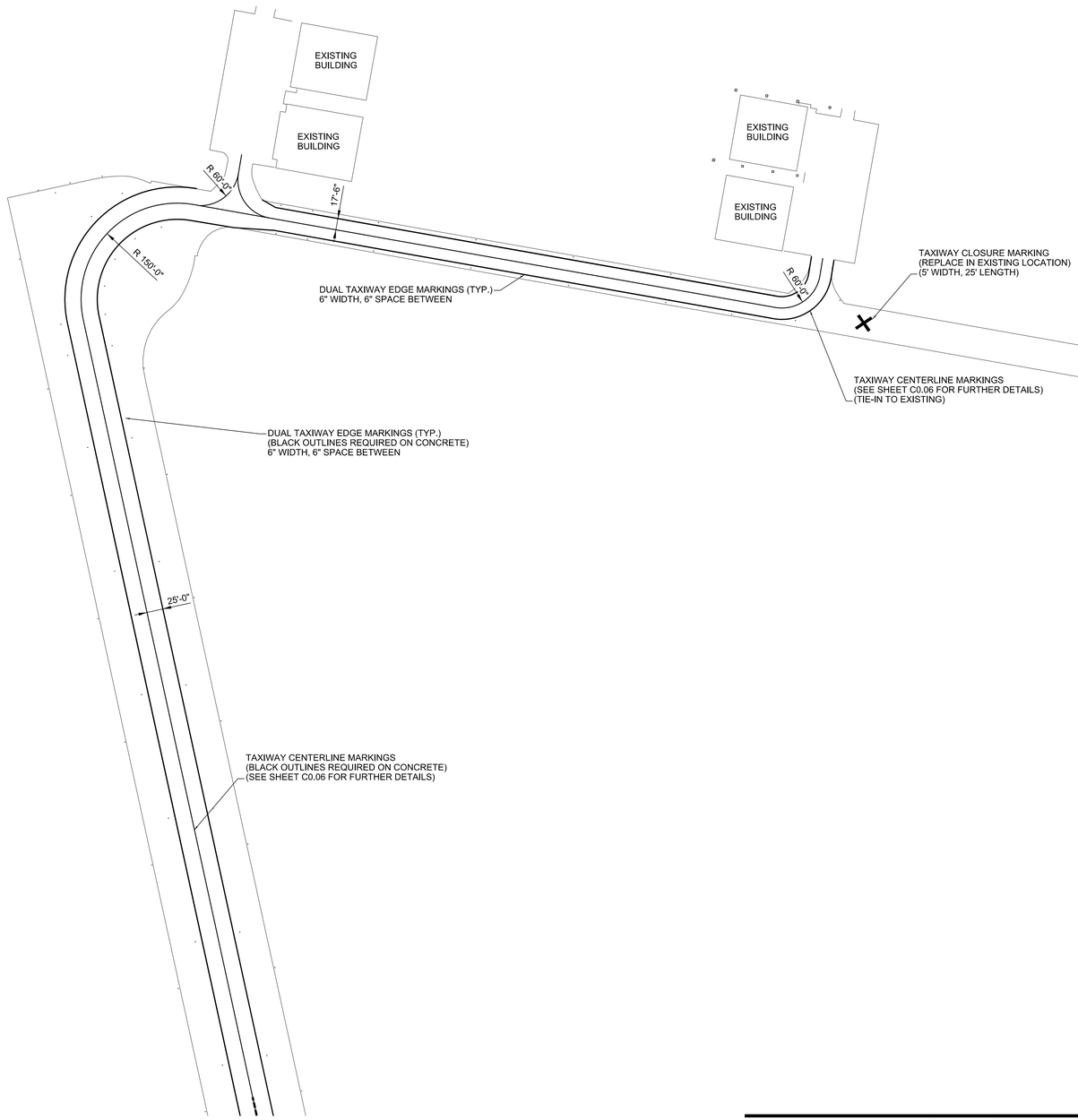


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2-11-2022

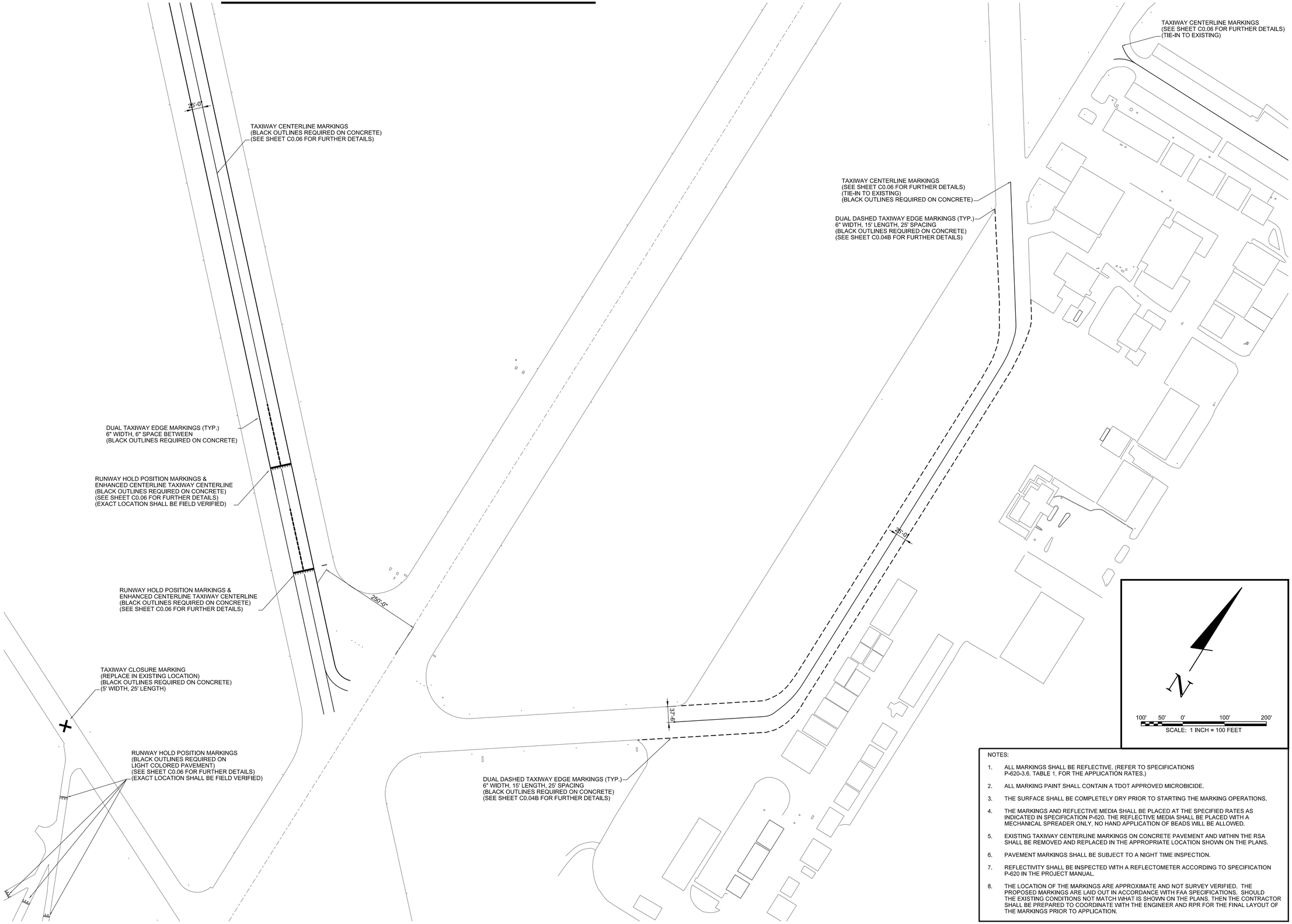


MATCH LINE - SEE SHEET C19.04

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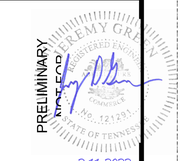


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5. EXISTING TAXIWAY CENTERLINE MARKINGS ON CONCRETE PAVEMENT AND WITHIN THE RSA SHALL BE REMOVED AND REPLACED IN THE APPROPRIATE LOCATION SHOWN ON THE PLANS.
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North Carolina License No. F-1034

PRELIMINARY NOT FOR CONSTRUCTION



2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
TULLAHOMA REGIONAL AIRPORT, THA
TULLAHOMA, TENNESSEE

REV.	DR.	CHK.	DATE	REVISION NUMBER AND DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

C19.08

FILE NO. 36821-05

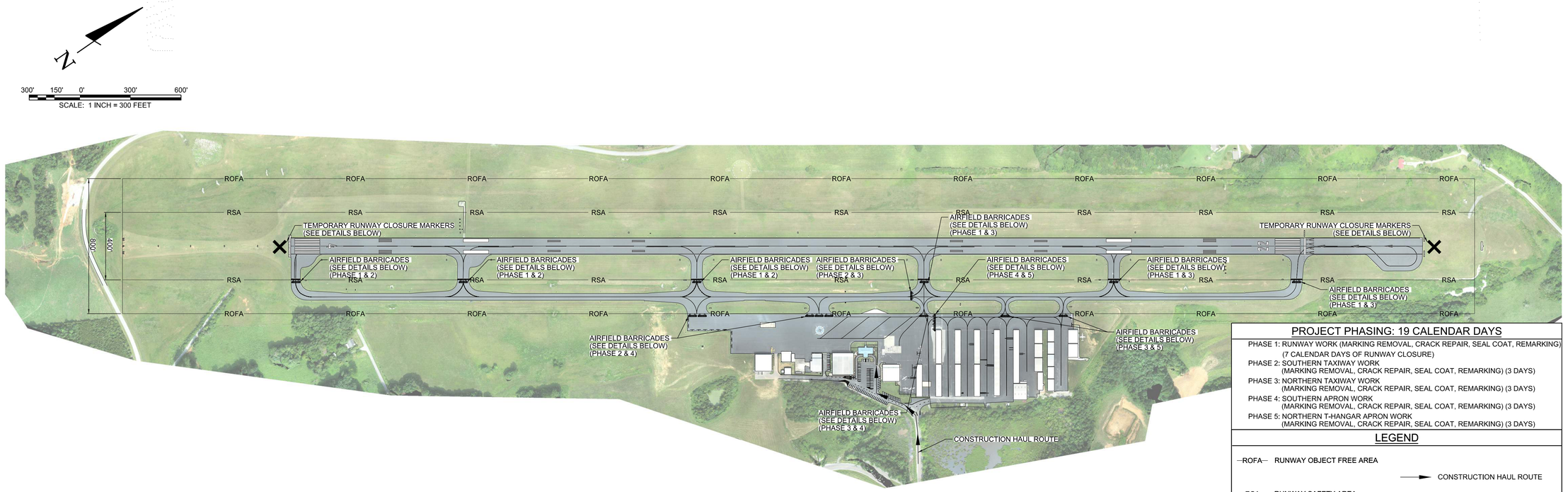
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01-01-10 REV. No. 1 - GENERAL REVISIONS

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PROJECT PHASING: 19 CALENDAR DAYS

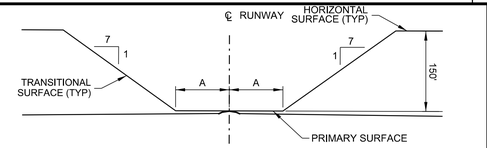
PHASE 1: RUNWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING)
(7 CALENDAR DAYS OF RUNWAY CLOSURE)
PHASE 2: SOUTHERN TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 3: NORTHERN TAXIWAY WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 4: SOUTHERN APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)
PHASE 5: NORTHERN T-HANGAR APRON WORK
(MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (3 DAYS)

LEGEND

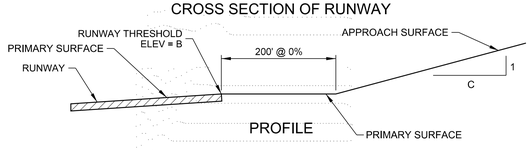
ROFA — RUNWAY OBJECT FREE AREA
CONSTRUCTION HAUL ROUTE
RSA — RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.975. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.975 OR ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 200' OF THE PRIMARY RUNWAY 4-22 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 400' OF THE PRIMARY RUNWAY 4-22 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY



PROFILE

RUNWAY END	A	B	C
4	500'	1013.74'	34
22	500'	1023.44'	20

FAR PART 77 SURFACES

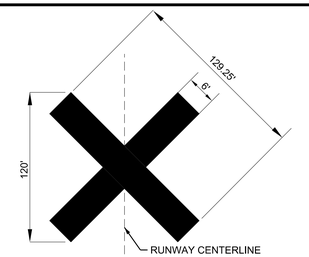
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 4-22	400'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 C20.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
DEAN SELBY
750 AIRPORT ROAD, SPARTA, TN 38583
(931) 739-7000

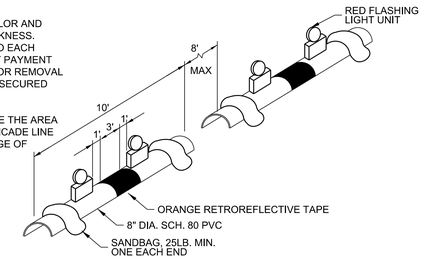
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

SPARTA POLICE DEPARTMENT:
(931) 836-3734

SPARTA FIRE DEPARTMENT:
(931) 738-7380

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 C20.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN — REGISTERED ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
UPPER CUMBERLAND REGIONAL AIRPORT, SRB
SPARTA, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022
			ISSUED FOR BID

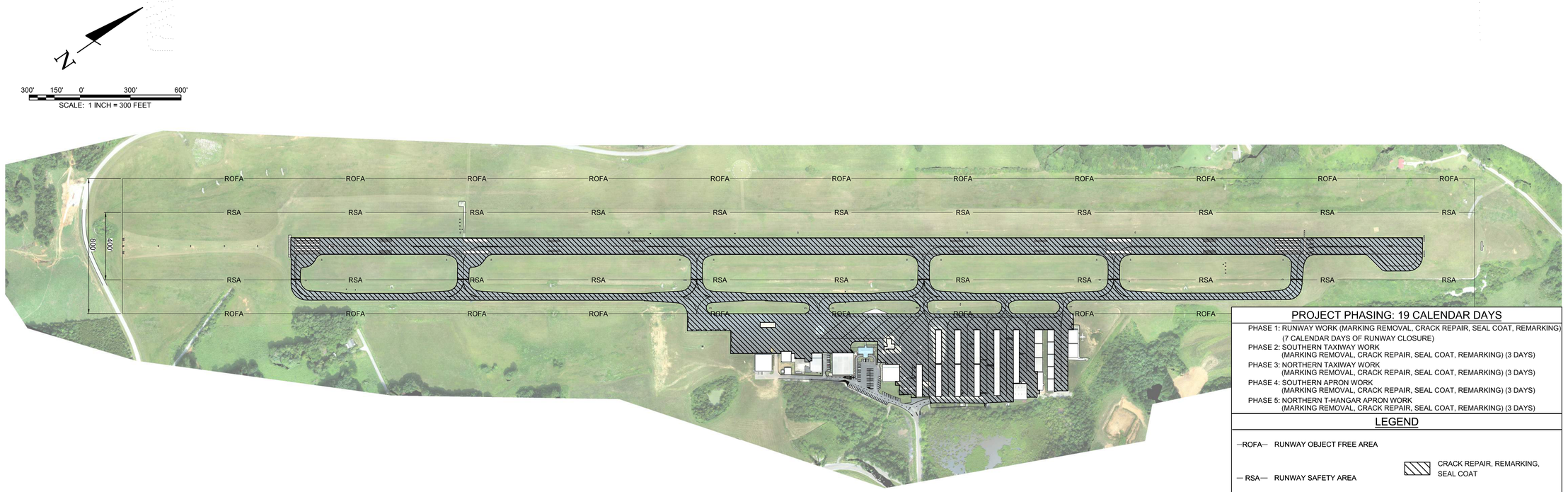
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SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	107,935	LF
P-101-5.2	CRACK REPAIR (TYPE II)	20,845	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	109,340	SF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	195,415	SY
P-620-5.1	TEMPORARY WHITE PAINT	94,715	SF
P-620-5.2	TEMPORARY YELLOW PAINT	13,685	SF
P-620-5.3	WHITE PAINT WITH REFLECTIVE MEDIA	94,715	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	13,685	SF

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JEREMY GREEN
REGISTERED ENGINEER
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
UPPER CUMBERLAND REGIONAL AIRPORT, SRB
SPARTA, TENNESSEE

REVISION INFORMATION			
NO.	DATE	CHK.	DR.
1	02-11-2022	JDG	JAC
ISSUED FOR BID			

DES.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

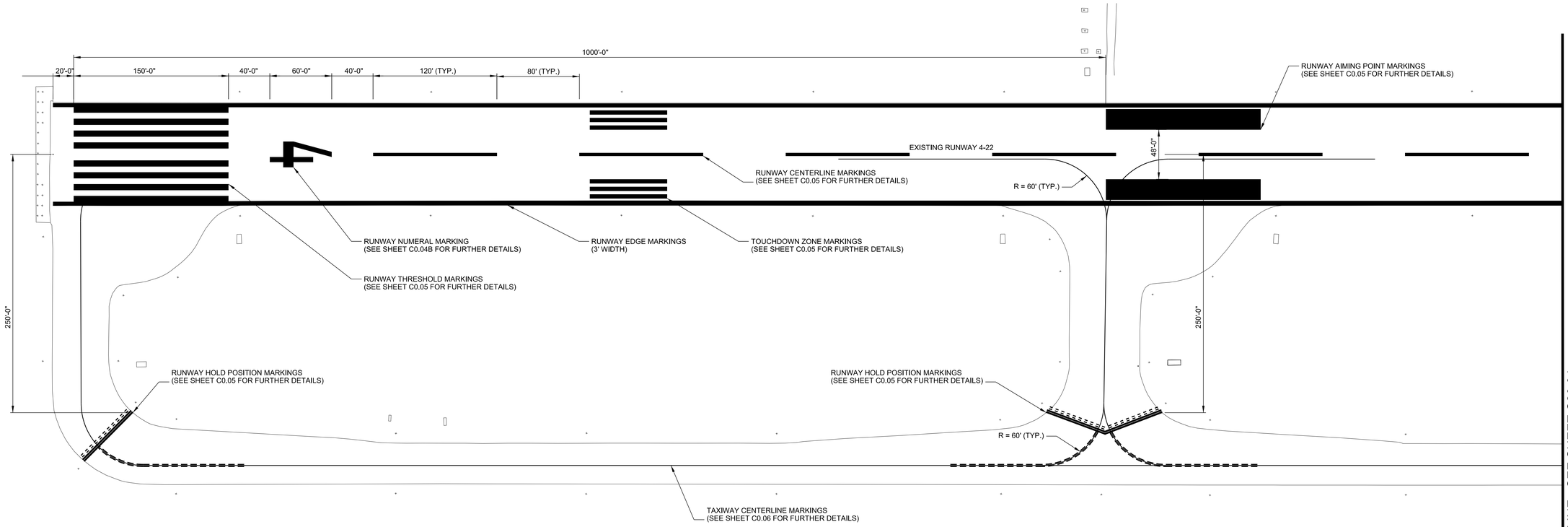
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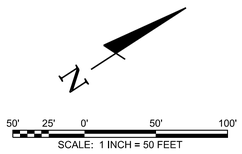
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MATCH LINE - SEE SHEET C20.04



NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
UPPER CUMBERLAND REGIONAL AIRPORT, SRB
SPARTA, TENNESSEE

REVISION INFORMATION			
NO.	DESCRIPTION	DATE	CHK
	ISSUED FOR BID	02-11-2022	JDG
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JRM		JAC	JDG

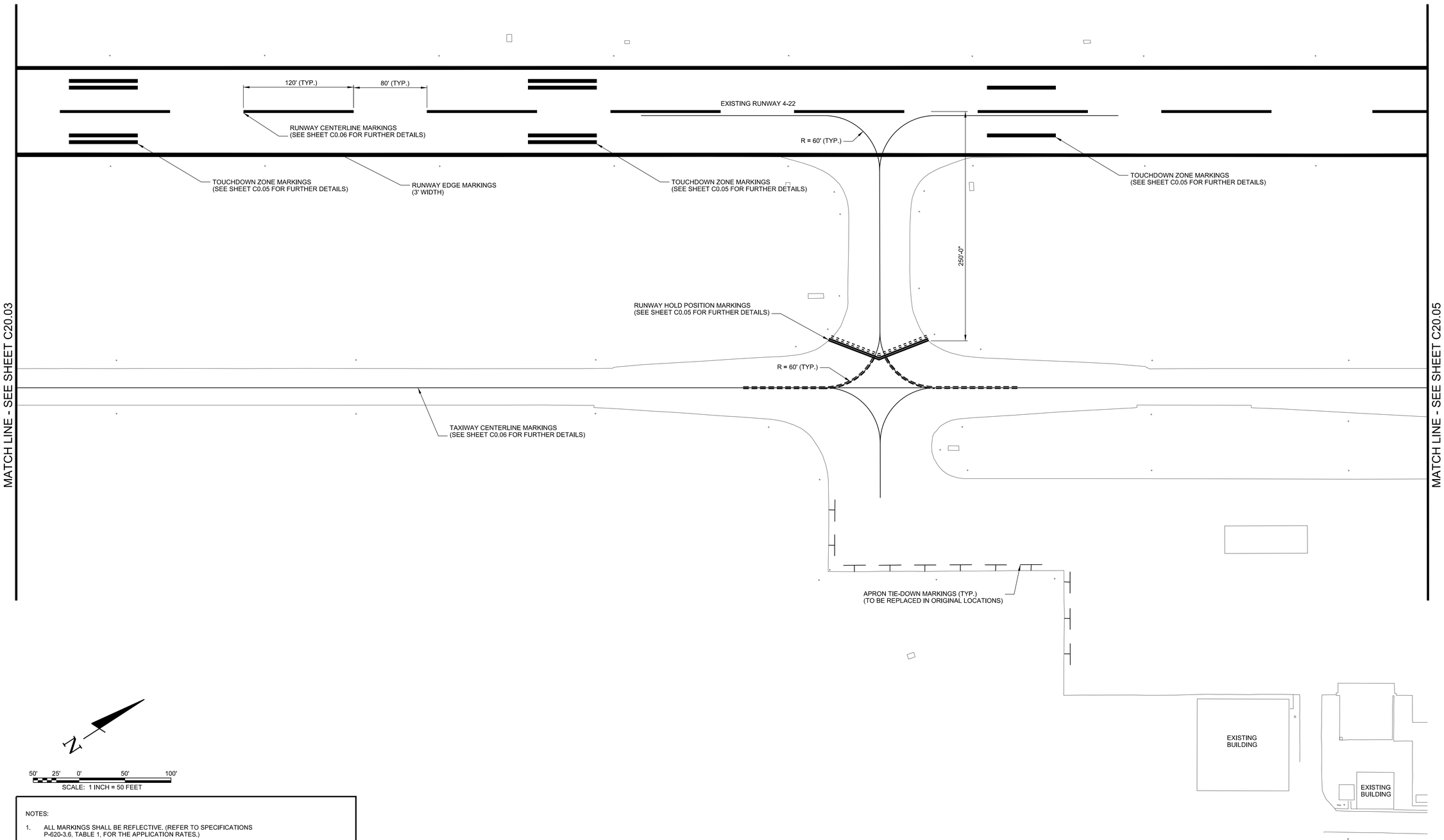
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50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET

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REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
UPPER CUMBERLAND REGIONAL AIRPORT, SRB
SPARTA, TENNESSEE

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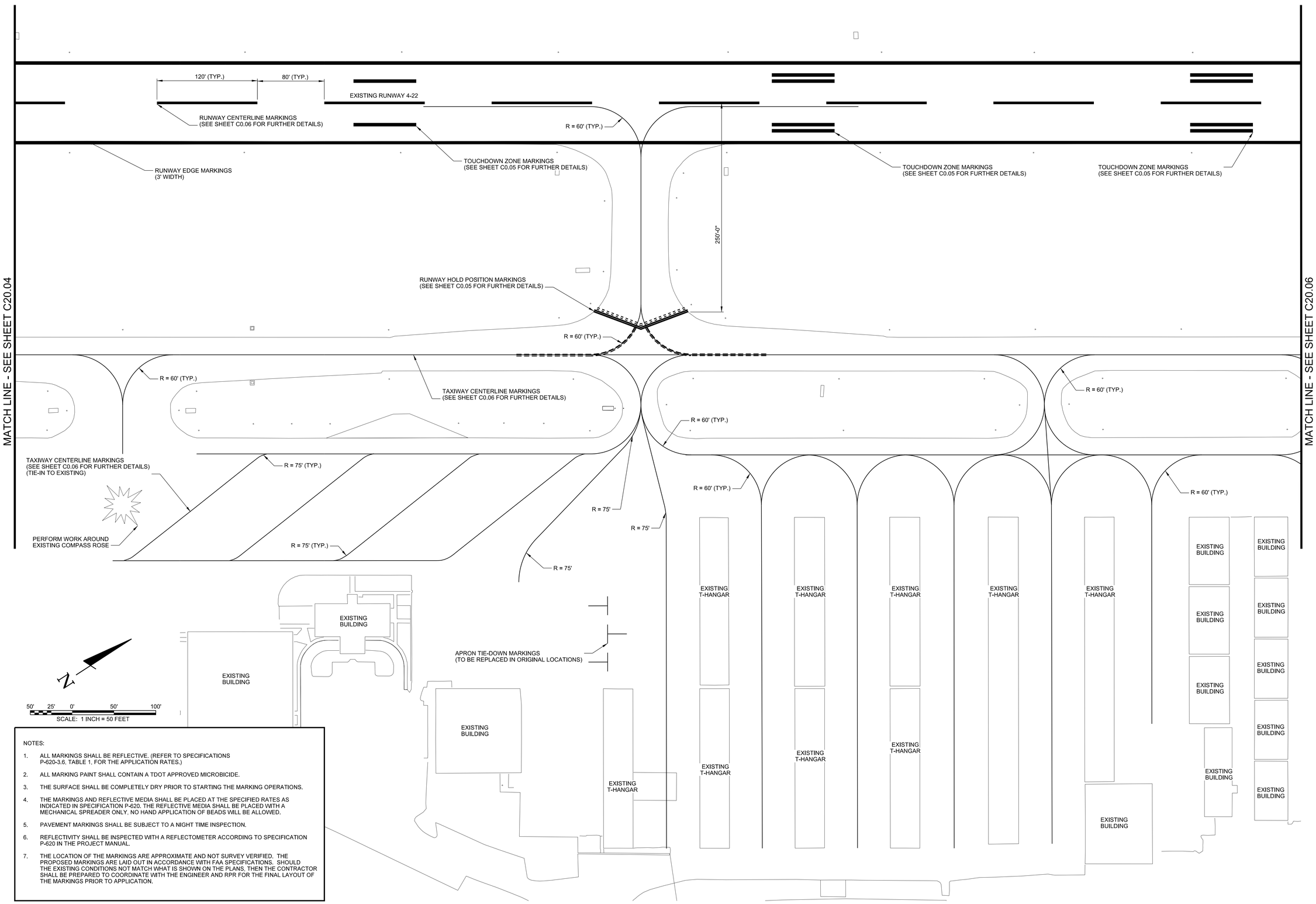
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5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.

BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
UPPER CUMBERLAND REGIONAL AIRPORT, SRB
SPARTA, TENNESSEE

REV.	DR.	CHK.	DATE	DESCRIPTION
JRM	JAC	JDG	02-11-2022	ISSUED FOR BID

REVISION INFORMATION

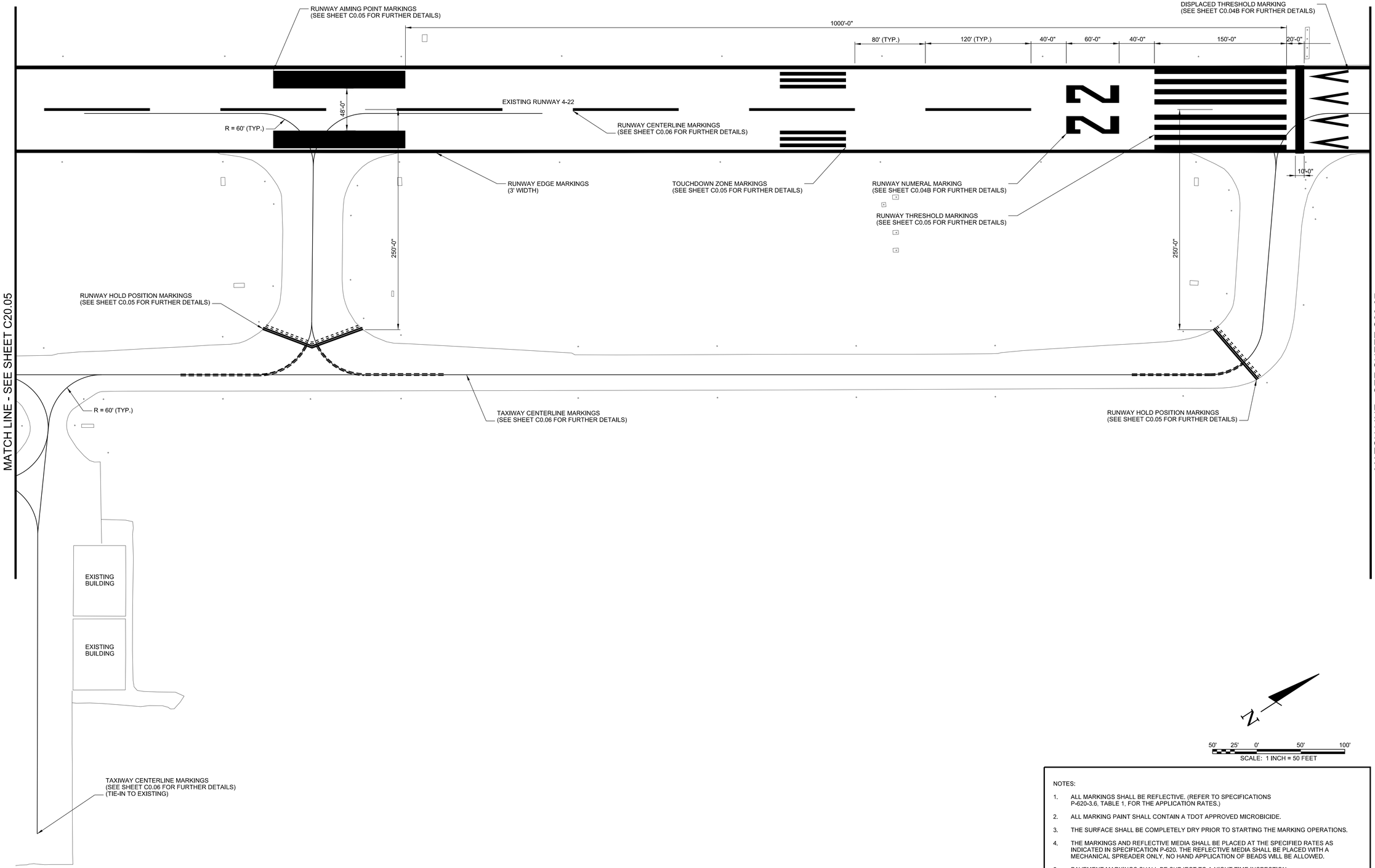
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50' 25' 0' 50' 100'

SCALE: 1 INCH = 50 FEET

NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
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NO.	DESCRIPTION	DATE	CHK
	ISSUED FOR BID	02-11-2022	JDG

DES. JRM
DR. JAC

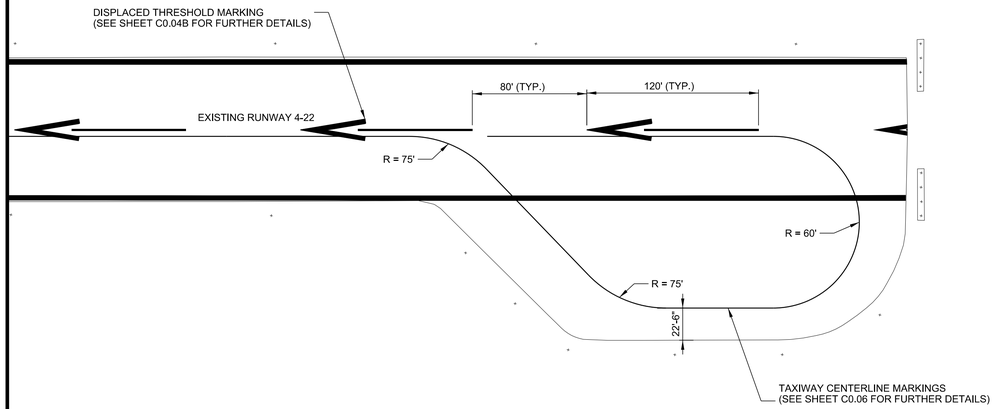
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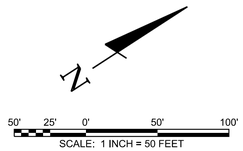
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MATCH LINE - SEE SHEET C20.06



NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
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2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
UPPER CUMBERLAND REGIONAL AIRPORT, SRB
SPARTA, TENNESSEE

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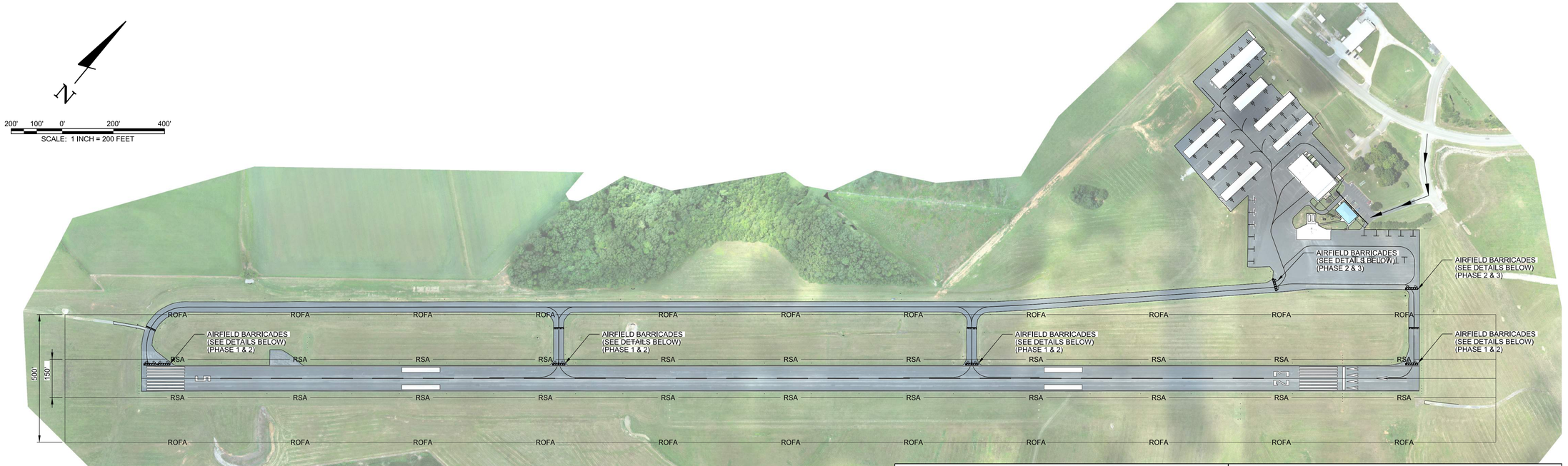
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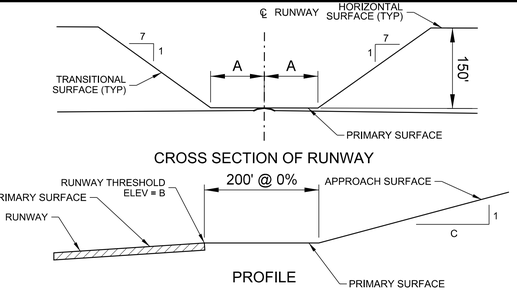
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PROJECT PHASING: 10 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY 5-23 WORK (CRACK REPAIR ONLY) (5 CALENDAR DAYS OF RUNWAY CLOSURE)	ROFA — RUNWAY OBJECT FREE AREA
PHASE 2: PARALLEL TAXIWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)	CONSTRUCTION HAUL ROUTE
PHASE 3: MAIN APRON & T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)	RSA — RUNWAY SAFETY AREA

CONSTRUCTION SAFETY NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE FOR ANY PURPOSE SO THAT THEY MAY PUBLISH "NOTICES TO AIRMAN" OF THE CONSTRUCTION ACTIVITIES.
2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT OPERATIONS AREAS ON A CONTINUOUS BASIS.
3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RADIOS, CONSTRUCTION OF AND MAINTENANCE OF HAUL ROUTES AND CONSTRUCTION ENTRANCE, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS UNLESS THE AIRPORT MANAGER GIVES PRIOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT.
6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA AND BORROW AREA SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT.
9. IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO REVIEW THE SAFETY PROVISIONS INCORPORATED IN THE FOLLOWING FEDERAL AVIATION ADMINISTRATION (FAA) DOCUMENTS, WHICH ARE AVAILABLE FOR REVIEW BY DOWNLOADING THE DOCUMENTS ON-LINE AT HTTP://WWW.FAA.GOV:
   - 9.1 ADVISORY CIRCULAR NUMBER 150/5370-10H, "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS"
   - 9.2 ADVISORY CIRCULAR NUMBER 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTON"
   - 9.3 ADVISORY CIRCULAR NUMBER 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
10. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRFIELD OPERATIONS AND/OR AIRCRAFT NAVIGATION CONSTRUCTION ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION.
11. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
12. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
13. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
14. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
15. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
16. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
17. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SPECIFICATIONS.
18. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY REFLECTORIZED SIGNS TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
21. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC AND APPROVED GATE GUARD TO CONTROL ALL CONSTRUCTION TRAFFIC ENTERING PROJECT.
22. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
23. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING STAKES WITH FLAGGING AS NOTED. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.
24. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO MINIMIZE ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG AIRCRAFT APRON EDGES OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE SPACED NO MORE THAN 8 FEET ON CENTER OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE PROJECT.
26. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
27. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
28. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
29. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
30. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
31. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
32. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
33. ALL FOREMAN'S SUPERINTENDANT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 122.80. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM FREQUENCY OF 122.80 OF ANY OTHER FAA FREQUENCY. THE CONTRACTOR IS REQUIRED TO MONITOR THE AIRPORT FREQUENCY WHENEVER THEIR FORCES ARE ON AIRPORT PROPERTY, WHETHER OR NOT THE RUNWAY IS OPEN OR CLOSED.
34. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
35. NO EQUIPMENT WILL BE ALLOWED WITHIN 75' OF THE PRIMARY RUNWAY 5-23 CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 250' OF THE PRIMARY RUNWAY 5-23 CENTERLINE.
36. NO EQUIPMENT WILL BE ALLOWED WITHIN 39.5' OF THE TAXIWAY'S CENTERLINE. NO EQUIPMENT WILL BE PARKED OR STORED WITHIN 65.5' OF TAXIWAY ALPHA'S CENTERLINE.
37. THE EXISTING AIRPORT PAVEMENTS ARE DESIGNED FOR AIRCRAFT TRAFFIC ONLY, AND MAY NOT SUPPORT LOADED TRUCK OR HEAVY EQUIPMENT. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE IMMEDIATELY REPAIRED TO FAA STANDARDS AT THE CONTRACTOR'S EXPENSE.



CROSS SECTION OF RUNWAY

PROFILE

RUNWAY END	A	B	C
5	250'	1031.4'	20
23	250'	1027.2'	34

FAR PART 77 SURFACES

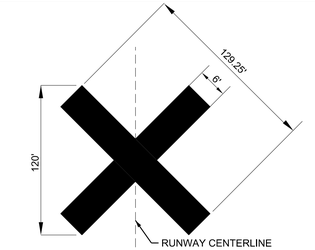
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NOTE:
THE PART 77 SECTION VIEW IS CENTERED ON THE RUNWAY CENTERLINE AT THE CENTERLINE ELEVATION, AND ON THE EXTENDED RUNWAY CENTERLINE AT THE RUNWAY THRESHOLD ELEVATION TO A POINT 200 FEET BEYOND EACH THRESHOLD. THE SECTION THEN RISES ALONG THE SLOPE INDICATED ON THE PROFILE VIEW.

PAVEMENT	SAFETY AREA WIDTH*
R/W 5-23	150'

*ALL DISTANCES ARE CENTERED ABOUT THE CENTERLINE OF THE AREA LISTED.

SAFETY AREA DIMENSIONS



NOTES:
1. CONTRACTOR SHALL BE REQURIED TO PROVIDE AND MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS.
2. THE TEMPORARY CLOSED RUNWAY MARKINGS SHALL BE AVIATION YELLOW AND MAY BE CONSTRUCTED OF MATERIAL SUCH AS FABRIC OR PLYWOOD.
3. PLACE MARKINGS AS SHOWN ON THIS SHEET. THE LOCATION OF THE TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED ON THE RUNWAY CENTERLINE.
4. FOR RUNWAYS THAT HAVE BEEN TEMPORARILY CLOSED, PLACE MARKER AT EACH END OF THE RUNWAY DIRECTLY ON OR AS NEAR AS PRACTICABLE TO THE RUNWAY DESIGNATION NUMBERS.
5. FOR A MULTIPLE RUNWAY ENVIRONMENT, IF THE CLOSURE MARKER ON A DESIGNATED NUMBER WILL BE LOCATED IN THE RSA OF AN ADJACENT ACTIVE RUNWAY, LOCATE THE MARKER FARTHER DOWN THE CLOSED RUNWAY TO CLEAR THE RSA OF THE ACTIVE RUNWAY.

1 / 21.01 RUNWAY CLOSURE MARKER
SCALE: N.T.S.

AIRPORT CONTACT INFORMATION:
RILEY TINDALL
48 WEST AIRPORT ROAD, McMINNVILLE, TN 37110
(931) 668-7050

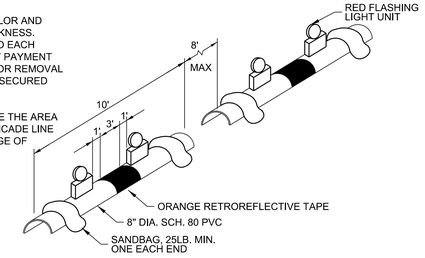
LOCAL EMERGENCY PHONE NUMBERS:
EMERGENCY:
911

McMINNVILLE POLICE DEPARTMENT:
(931) 473-3808

McMINNVILLE CITY FIRE DEPARTMENT:
(931) 473-3435

LIQUIDATED DAMAGES:
$1,000 PER CALENDAR DAY

NOTES:
1. CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS. UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.
2. ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO 10' OFF THE EDGE OF EITHER SIDE OF ANY PAVEMENT.



2 / 21.01 AIRFIELD BARRICADE DETAIL
SCALE: N.T.S.

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PHONE (615) 254-1500 // FAX (615) 255-6572

JEREMY GREEN — REGISTERED PROFESSIONAL ENGINEER — No. 121291 — STATE OF TENNESSEE
2-11-2022

CONSTRUCTION SAFETY & PHASING PLAN (CSPP)
AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
WARREN COUNTY MEMORIAL AIRPORT, RNC
McMINNVILLE, TENNESSEE

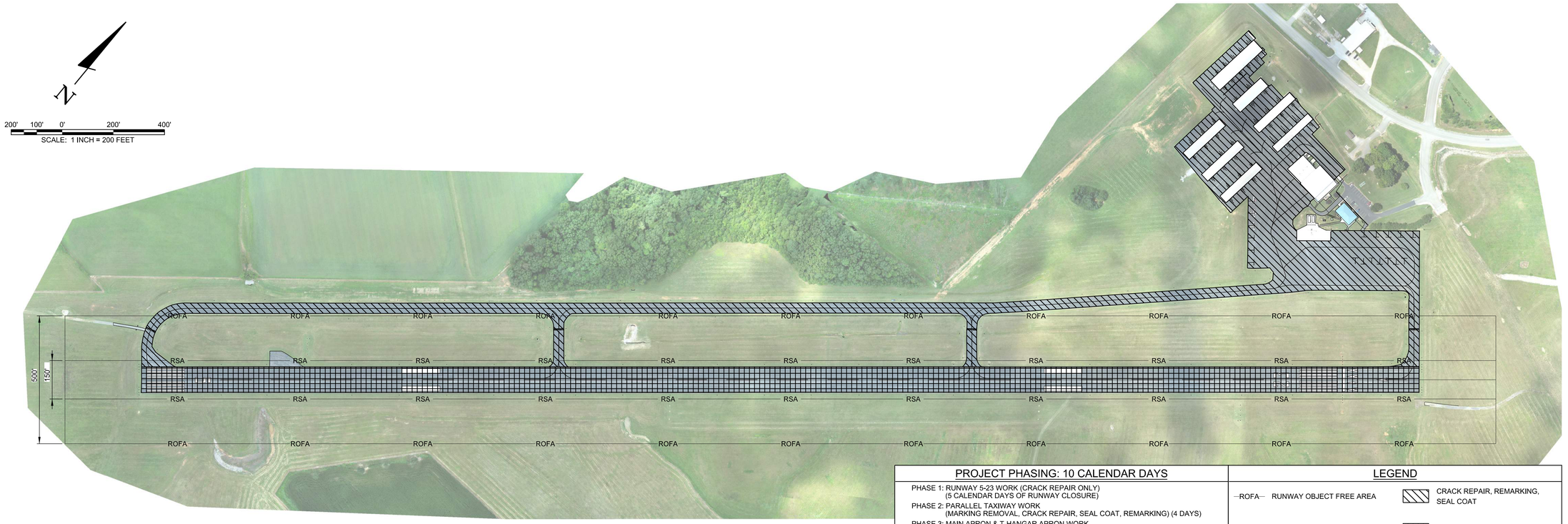
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PROJECT PHASING: 10 CALENDAR DAYS	LEGEND
PHASE 1: RUNWAY 5-23 WORK (CRACK REPAIR ONLY) (5 CALENDAR DAYS OF RUNWAY CLOSURE)	—ROFA— RUNWAY OBJECT FREE AREA CRACK REPAIR, REMARKING, SEAL COAT
PHASE 2: PARALLEL TAXIWAY WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (4 DAYS)	— RSA — RUNWAY SAFETY AREA CRACK REPAIR ONLY
PHASE 3: MAIN APRON & T-HANGAR APRON WORK (MARKING REMOVAL, CRACK REPAIR, SEAL COAT, REMARKING) (6 DAYS)	

SCHEDULE OF QUANTITIES

ITEM	BASE BID	QUANTITY	UNIT
C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS
C-105	MOBILIZATION	1	LS
P-101-5.1	CRACK REPAIR (TYPE I)	46,299	LF
P-101-5.2	CRACK REPAIR (TYPE II)	27,244	LF
P-101-5.3	AIRFIELD PAVEMENT MARKING REMOVAL	6,720	SF
P-101-5.4	CRACK REPAIR (TYPE III)	3,250	LF
P-608-8.1	EMULSIFIED ASPHALT SEAL COAT	62,430	SY
P-620-5.2	TEMPORARY YELLOW PAINT	6,720	SF
P-620-5.4	YELLOW PAINT WITH REFLECTIVE MEDIA	6,720	SF

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PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

OVERALL SITE LAYOUT PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
WARREN COUNTY MEMORIAL AIRPORT, RNC
McMINNVILLE, TENNESSEE

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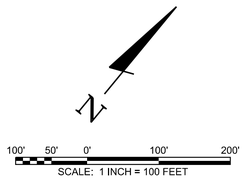
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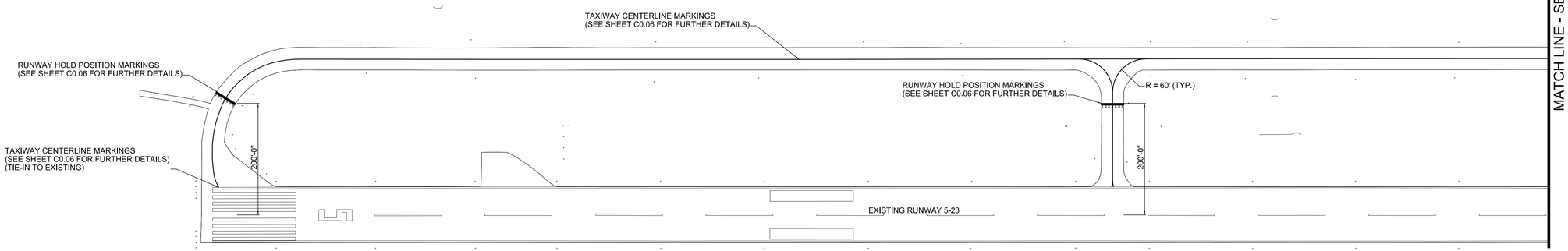
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NOTES:

1. ALL MARKINGS SHALL BE REFLECTIVE. (REFER TO SPECIFICATIONS P-620-3.6, TABLE 1, FOR THE APPLICATION RATES.)
2. ALL MARKING PAINT SHALL CONTAIN A TDOT APPROVED MICROBICIDE.
3. THE SURFACE SHALL BE COMPLETELY DRY PRIOR TO STARTING THE MARKING OPERATIONS.
4. THE MARKINGS AND REFLECTIVE MEDIA SHALL BE PLACED AT THE SPECIFIED RATES AS INDICATED IN SPECIFICATION P-620. THE REFLECTIVE MEDIA SHALL BE PLACED WITH A MECHANICAL SPREADER ONLY. NO HAND APPLICATION OF BEADS WILL BE ALLOWED.
5. PAVEMENT MARKINGS SHALL BE SUBJECT TO A NIGHT TIME INSPECTION.
6. REFLECTIVITY SHALL BE INSPECTED WITH A REFLECTOMETER ACCORDING TO SPECIFICATION P-620 IN THE PROJECT MANUAL.
7. THE LOCATION OF THE MARKINGS ARE APPROXIMATE AND NOT SURVEY VERIFIED. THE PROPOSED MARKINGS ARE LAID OUT IN ACCORDANCE WITH FAA SPECIFICATIONS. SHOULD THE EXISTING CONDITIONS NOT MATCH WHAT IS SHOWN ON THE PLANS, THEN THE CONTRACTOR SHALL BE PREPARED TO COORDINATE WITH THE ENGINEER AND RPR FOR THE FINAL LAYOUT OF THE MARKINGS PRIOR TO APPLICATION.



BARGE DESIGN SOLUTIONS
615 3rd Avenue South // Suite 700 // Nashville, Tennessee 37210
PHONE (615) 254-1500 // FAX (615) 255-6572

REGISTERED ENGINEER
JEREMY GREEN
No. 121291
STATE OF TENNESSEE
2-11-2022

AIRFIELD MARKING PLAN

AIRFIELD PAVEMENT AND MARKING MAINTENANCE, PHASE 3
WARREN COUNTY MEMORIAL AIRPORT, RNC
McMINNVILLE, TENNESSEE

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
JRM	JAC	JDG	02-11-2022

DESCRIPTION
ISSUED FOR BID

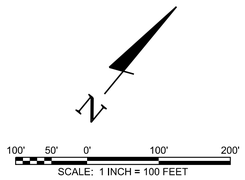
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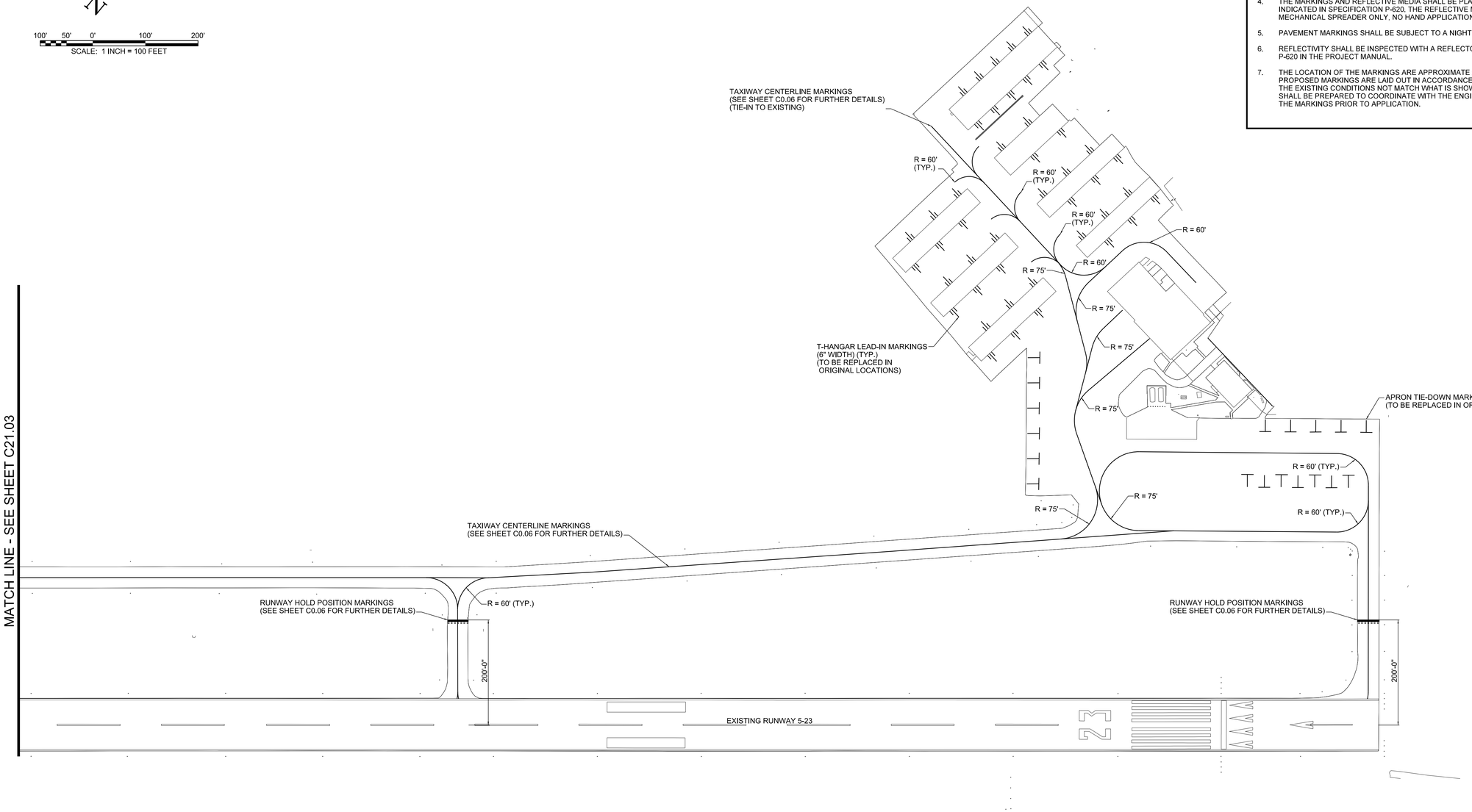
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NOTES:

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McMINNVILLE, TENNESSEE

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	02-11-2022	ISSUED FOR BID

DES.	DR.	CHK.
JRM	JAC	JDG

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