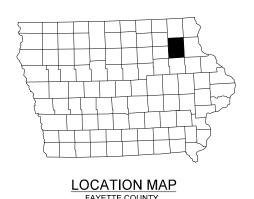


IMPROVEMENTS TO

THE OELWEIN MUNICIPAL AIRPORT OELWEIN, IOWA

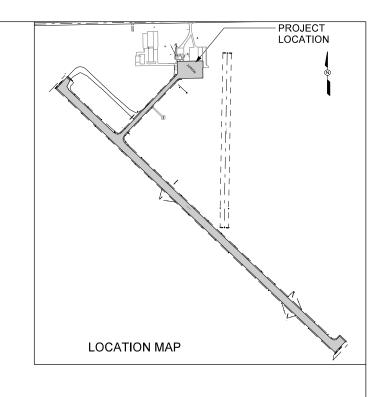
REHABILITATE RUNWAY, TAXIWAY, AND APRON FAA AIP PROJECT NO. 3-19-0067-012 OWNER: CITY OF OELWEIN, IA



DESIGN CRITERIA

CONNECTOR TAXIWAY IMPROVEMENTS ARE DESIGNED UTILIZING AIRCRAFT APPROACH CATEGORY B AND AIRPLANE DESIGN GROUP II.

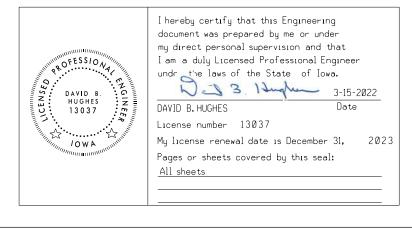




AECOM AECOM
500 S.W. 7th STREET 501 SYCAMORE STREET
SUITE 301 SUITE 222
DES MOINES, IOWA 50309 WATERLOO, IOWA 50703
515-244-1470 319-232-6531

TELFAX 319-232-0271

TELFAX 515-244-4803



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2	INDEX OF SHEETS AND QUANTITIES
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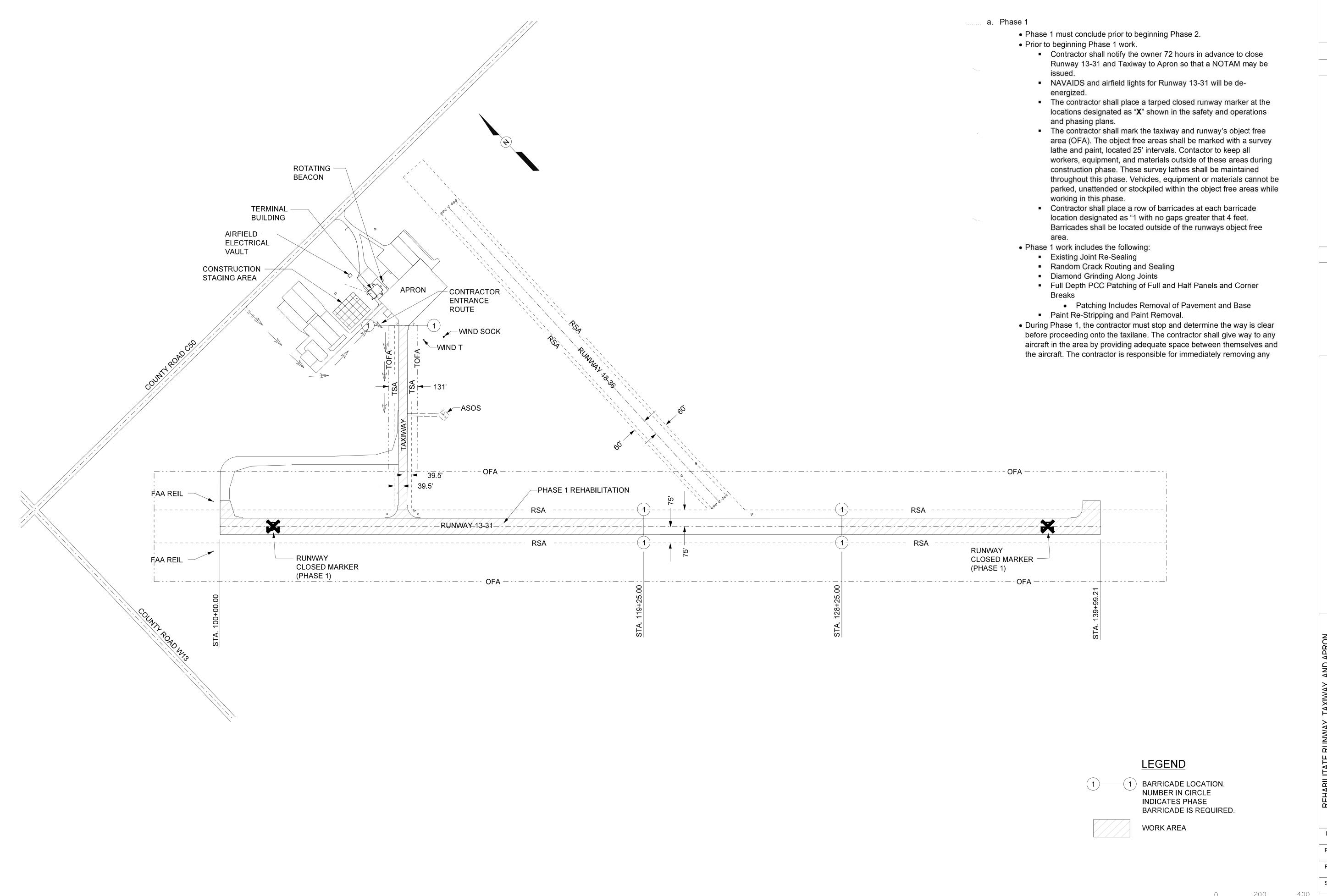
ESTIMATED QUANTITIES

		BID PACKAGE #1 - RECONSTRUCT WEST TERMINAL APRON AND CLEAN/RESEAL JOINTS EAST TER	RMINAL		
ITEM NO.	SPEC. NO.	DESCRIPTION	UNIT	PLAN QUANTITY	FINAL QUANTITY
1	C-105	MOBILIZATION	LS	1	
2	GP 40-05	TRAFFIC CONTROL	LS	1	
3	P-101-5.1	PATCHES, FULL-DEPTH FINISH, FULL SLAB	SY	120	
4	P-101-5.1	PATCHES, FULL-DEPTH FINISH, PARTIAL SLAB	SY	35	
5	P-101-5.1	PATCHES, FULL-DEPTH FINISH, CORNER BREAK	SF	450	
6	P-101-5.2	DIAMOND GRINDING	SF	1020	
7	P-101-5.3	SAW AND SEAL JOINTS (APRON)	LFT	8650	
8	P-101-5.3	SAW AND SEAL JOINTS (RUNWAY AND TAXIWAY)	LFT	58000	
9	P-101-5.3	ROUTE AND SEAL CRACKS	LFT	900	
10	P-208-5.1	CRUSHED AGGREGATE BASE COURSE - 6 INCH	SY	150	
11	P-620-5.1	RUNWAY AND TAXIWAY MARKING	SF	29400	
12	P-620-5.2	REFLECTIVE MEDIA (TYPE I, GRADATION A)	LB	1375	
13	P-620-5.3	RUNWAY PAINT REMOVAL	SF	3625	



MARCH 15, 2022
PROJECT NO 60676643

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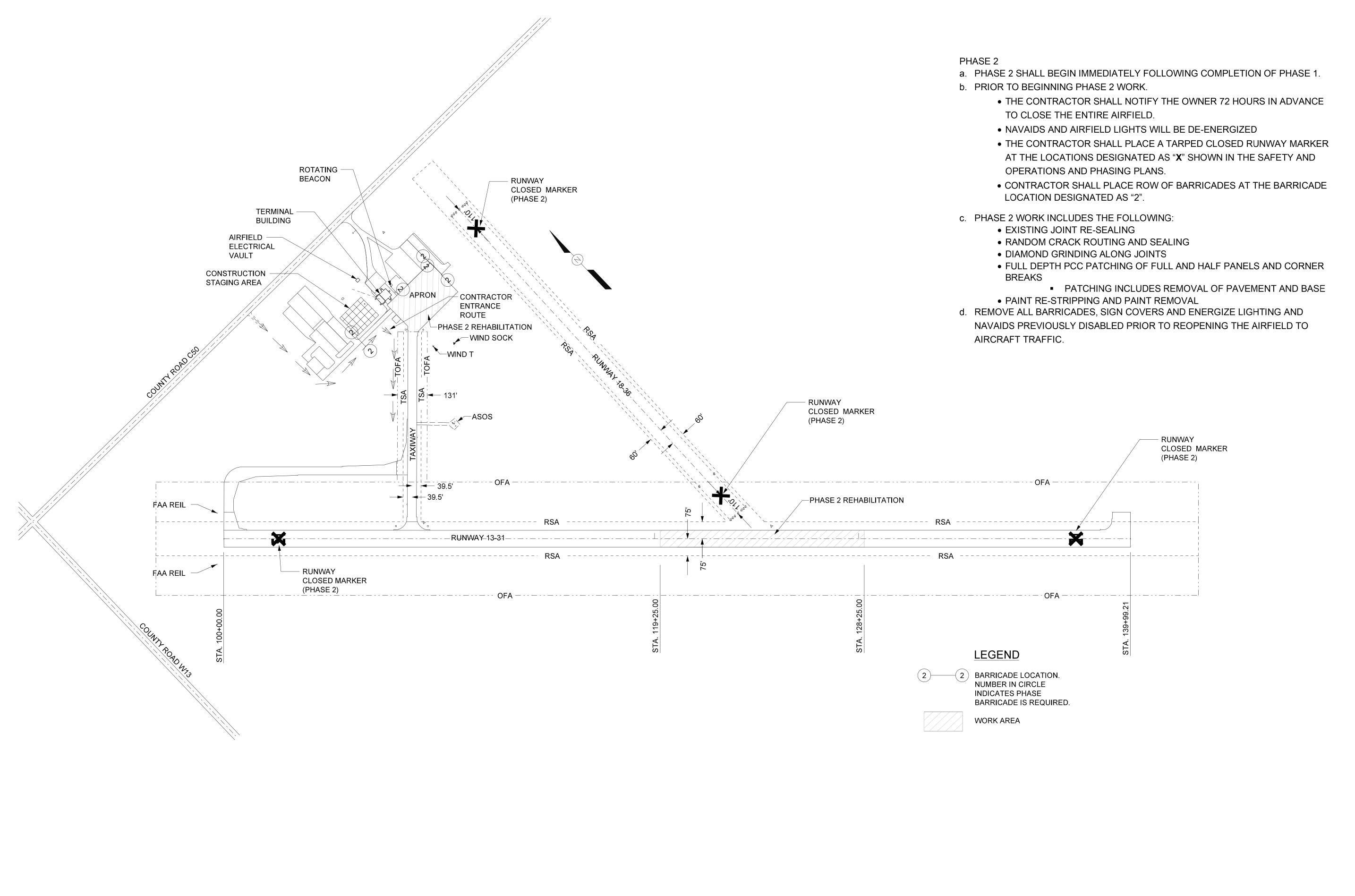


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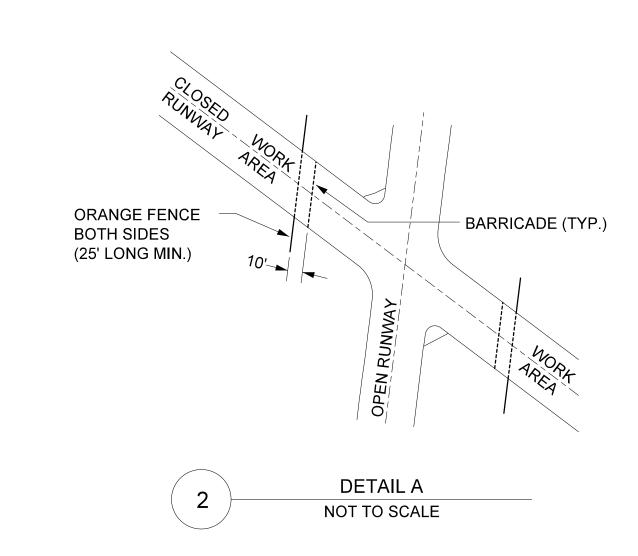
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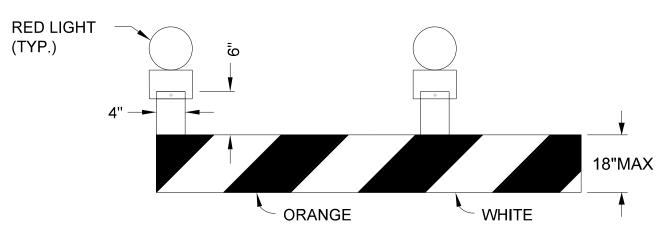
PROJECT NO

FILENAME

DRAWING NO

NOTE: TEMPORARY MARKER FOR CLOSED RUNWAY TO BE CONSTRUCTED OF FABRIC, PLYWOOD, SNOW FENCE OR SUITABLE MATERIAL. SECURE THE MARKER IN PLACE AS NOTED TO DENOTE A CLOSED TAXIWAY. MARKER IS INCLUDED IN TRAFFIC CONTROL.





TYPICAL BARRIACDE NOT TO SCALE

BRACKETS TO ACCEPT 2 LIGHTS AND TWO AND WHITE MARKINGS.

NOTES

- 1. BARRICADE BOARDS, OR ENGINEERING APPROVED LOW-PROFILE, LOW MASS IMPACT BARRICADES SHALL BE USED ON PAVEMENT.
- 2. LIGHTS SHALL BE SECURELY ANCHORED TO BARRICADES.
- 3. BARRICADE SHALL BE PROPERLY WEIGHED TO PREVENT MOVEMENT BY WIND, PROP WASH, OR JET BLAST OF UP TO 75 M.P.H.
- 4. CONTRACTORS SHALL BE REQUIRED TO INSPECT BARRICADES DAILY TO ENSURE THAT BARRICADES ARE INTACT AND IN PROPER WORKING ORDER IN ACCORDANCE WITH THIS SPECIFICATION.
- 5. LIGHT SHALL EITHER BE OMNIDIRECTIONAL, OR EVERY OTHER LIGHT SHALL BE ROTATED 90 DEGREES.
- 6. BARRICADE SHALL BE 10- FEET LONG WITH ALTERNATING 6" BANDS OF INTERNATIONAL ORANGE AND WHITE .
- 7. LIGHT SPACING SHALL NOT EXCEED 10 FEET, OPERATED BETWEEN SUNSET AND SUNRISE AND PERIODS DURING LOW VISIBILITY.
- 8. BARRICADES SHALL START 4 FEET FROM EDGE OF PAVEMENT AND SPACED 4 FEET MAXIMUM.

OPERATION.	AL EFF	FECTS	TABL

	OPERATION	AL EFFECTS TABLE			
PROJ	ECT	REHAB	ILITATE RUNWAY, APRON	TAXIWAY AND	
РНА	SE	EXISTING	PHASE 1: TAXIWAY AND RUNWAY 13-31 OUTSIDE OF RUNWAY 18-36 OFA	PHASE 2: RUNWAY 13-31 INSIDE OF RUNWAY 18-36 OFA AND APRON	
SCOPE O	F WORK	N/A	JOINT AND CRACK ROUTE AND SEALING AND PAVEMENT REPAIRS AND PAINT RESTRIPPING FOR TAXIWAY AND RUNWAY 13-31 OUTSIDE OF THE OFA FOR RUNWAY 18-36	JOINT AND CRACK ROUTE AND SEALING AND PAVEMENT REPAIRS AND PAINT RESTRIPPING FOR RUNWAY 13-31 WITHIN THE OFA FOR RUNWAY 18-36 AND WORK WITHIN THE APRON AREA	
EFFECTS OF CO	ONSTRUCTION	N/A	RUNWAY 13-31 CLOSED	AIRFIELD CLOSED	
AIRCRAFT O	PERATIONS		GA: 10/DAY	· · · · · · · · · · · · · · · · · · ·	
	AIRPLANE DESIGN GROUP	B-II			
RUNWAY 13 -31 CHARACTERISTICS	RSA WIDTH OFA WIDTH RSA AND OFA	150' 500'	CLOSED	CLOSED	
	RUNWAY END	300'			
	AIRPLANE DESIGN GROUP	A-I			
DLINI\A\A\\ 40.00	RSA WIDTH	120'			
RUNWAY 18-36 CHARACTERISTICS (TURF RUNWAY)	OFA WIDTH RSA AND OFA LENGTH BEYOND RUNWAY END	250' 240'	OPEN CLOSE		
	TSA WIDTH	79'			
	TOFA WIDTH	131'			
INFORMATION	N/A	EQUIPMENT CROSSING TAXILANE BETWEEN HANGARS AND TERMINAL APRON. RUNWAY 13-31 CLOSED. NAVAIDS, LIGHTS DISABLED.	AIRFIELD CLOSED. NAVAIDS, LIGHTS DISABLED.		

DES DES APP

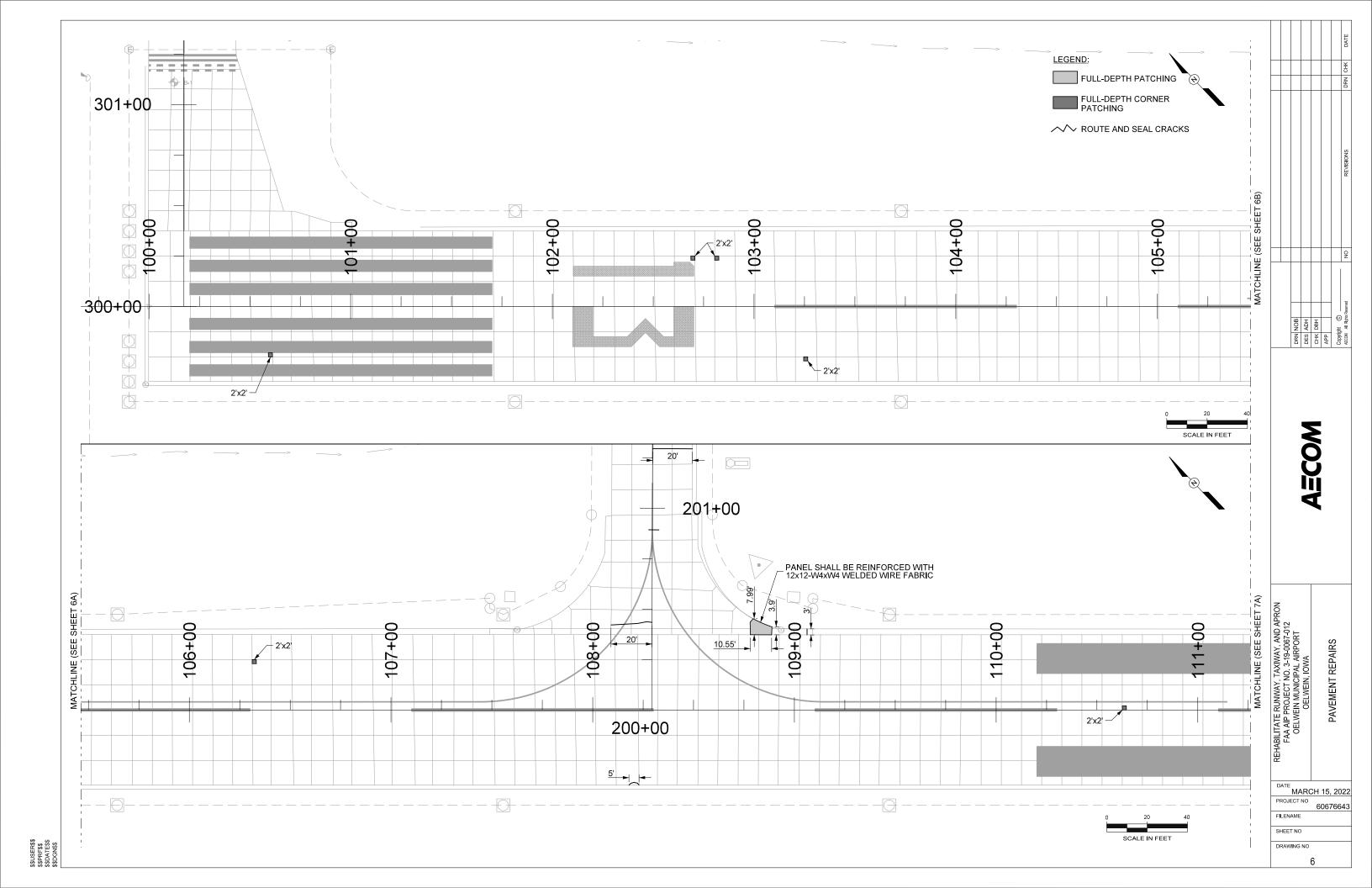
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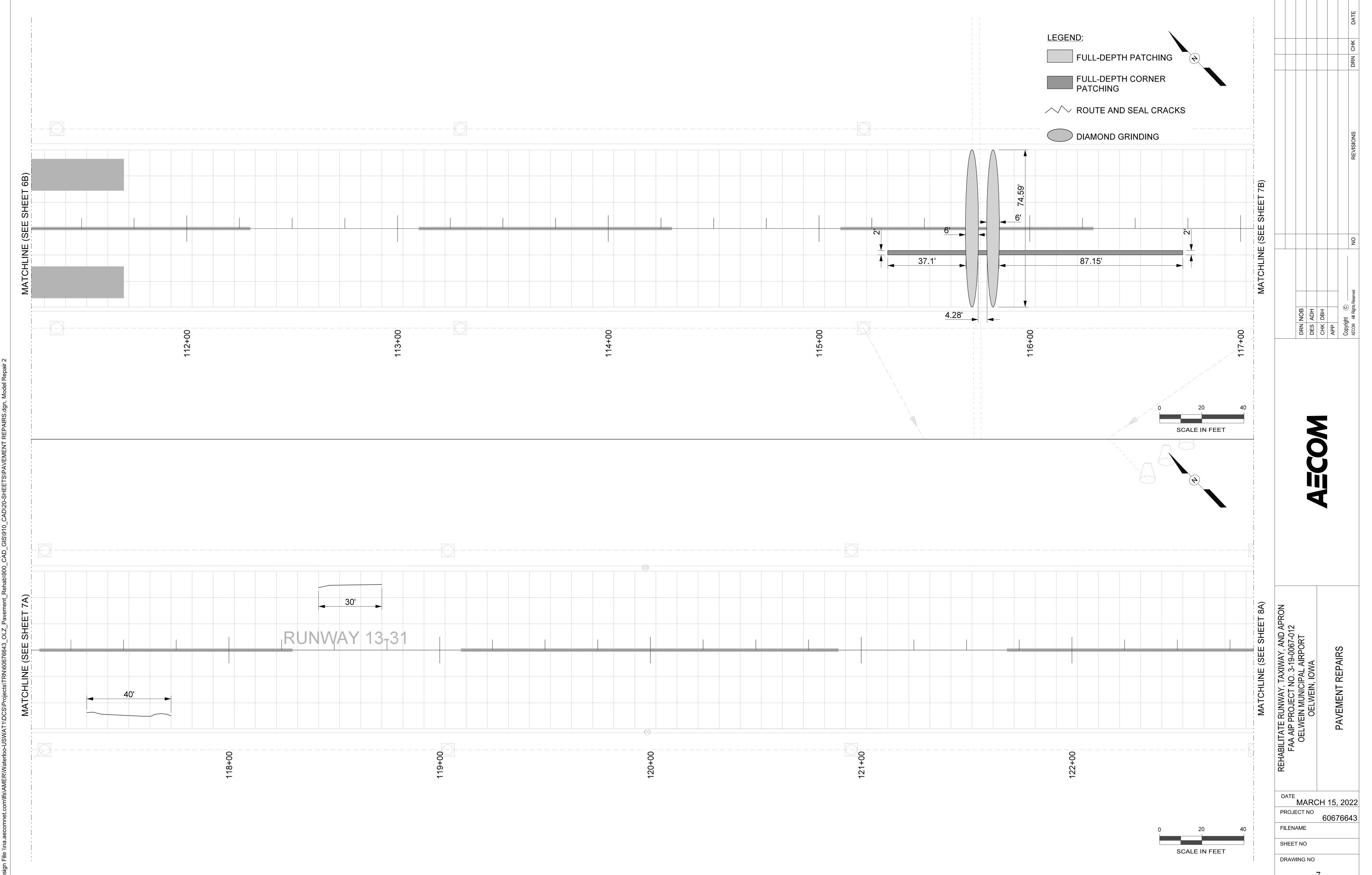
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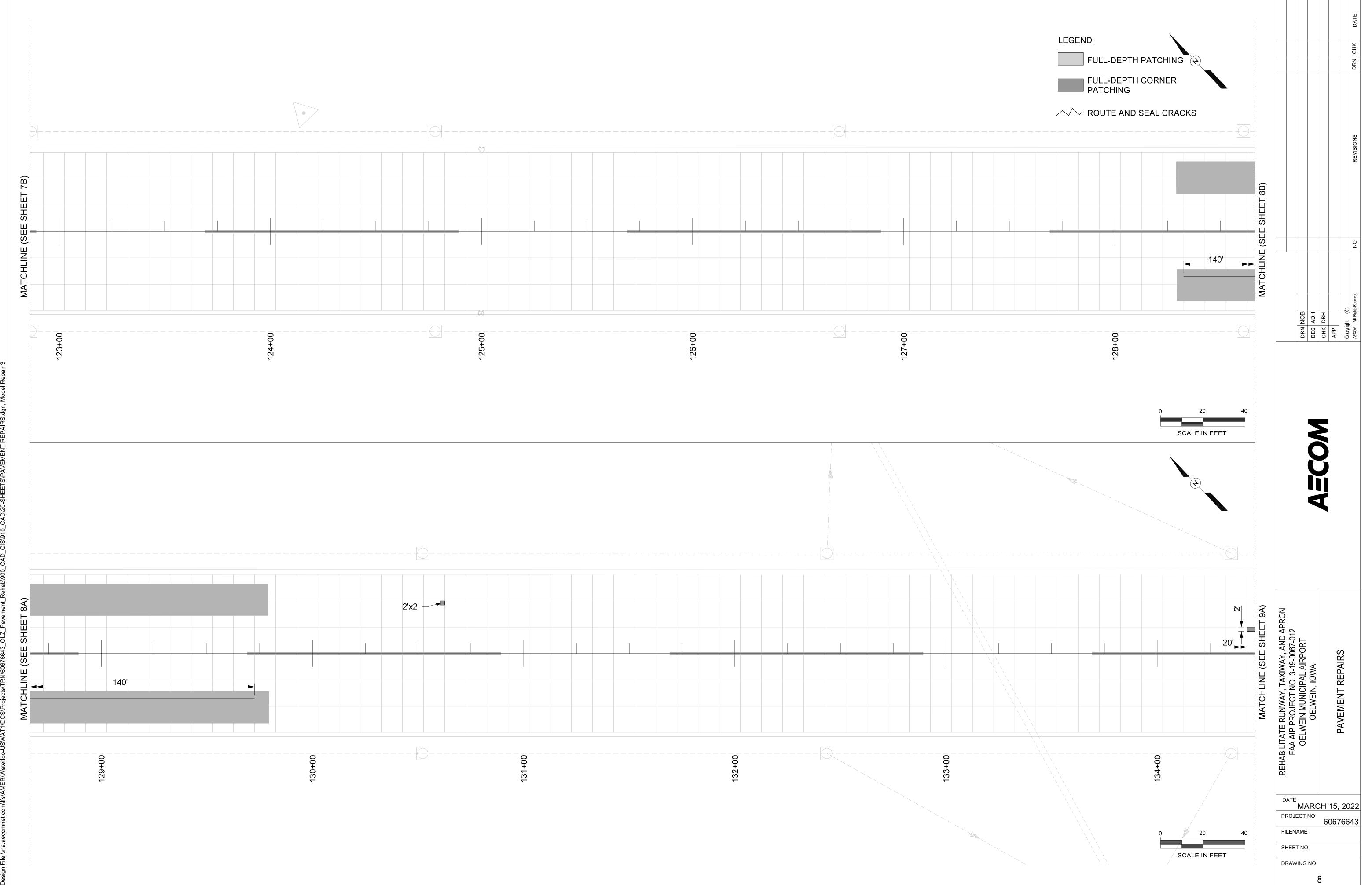
FILENAME

SHEET NO

DRAWING NO







NOUTE AND SEAL CRACKS 344+00 D 20' 345+00 345+09 2'x4' 2'x2' (TYP.) − 2'x4' SCALE IN FEET

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CHK DBH
APP
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LEGEND:

FULL-DEPTH PATCHING

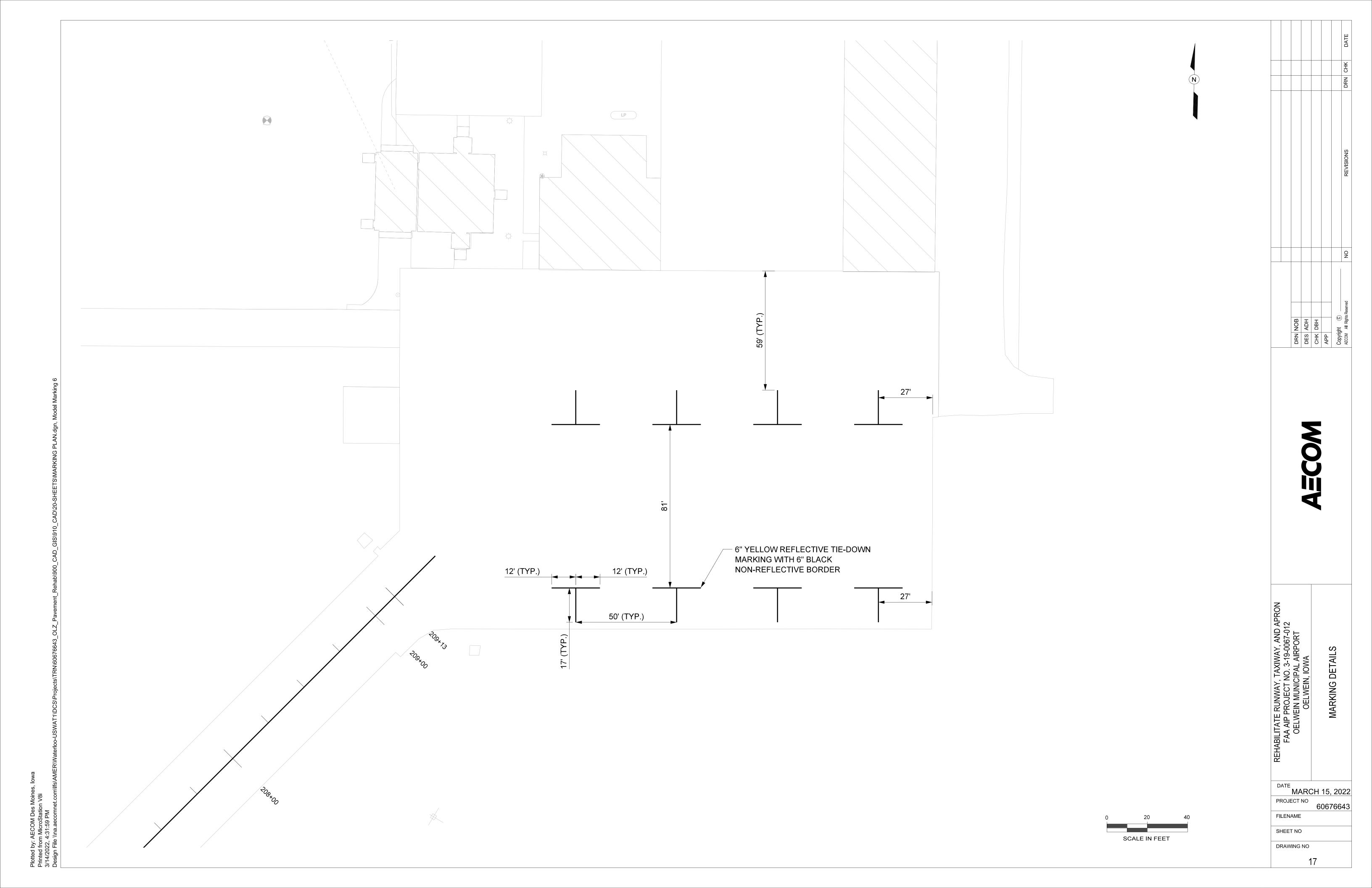
FULL-DEPTH CORNER PATCHING

MARCH 15, 2022
PROJECT NO 60676643

FILENAME SHEET NO DRAWING NO

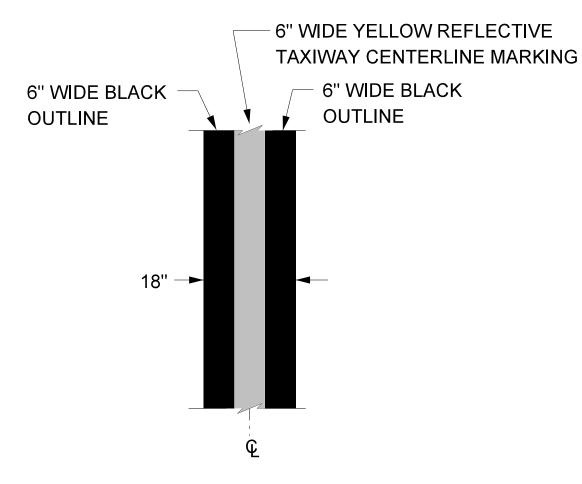
LEGEND: 310+00 FULL-DEPTH PATCHING FULL-DEPTH CORNER PATCHING NOUTE AND SEAL CRACKS 108+00 MATCHLINE (SEE SHEET 10B) DES ADH
CHK DBH
APP
Copyright ©
AECOM All Rights 109+00 SCALE IN FEET MARCH 15, 2022
PROJECT NO 60676643 FILENAME SHEET NO DRAWING NO

DES CHK APP Copyrig 6 THRESHOLD MARKINGS 5.75' WIDE -WHITE REFLECTIVE PAINT SPACED 5.75' EDGE-TO-EDGE WITH 6" BLACK NON-REFLECTIVE BORDER 150' WHITE REFLECTIVE PAINT WITH 6" BLACK -NON-REFLECTIVE PAINT BORDER 20' 80' (TYP.) 120' (TYP.) 1.5' WIDE WHITE REFLECTIVE RUNWAY CENTERLINE MARKING WITH 6" BLACK NON-REFLECTIVE BORDER MARKING PLAN MARCH 15, 2022 PROJECT NO 60676643 FILENAME SHEET NO SCALE IN FEET DRAWING NO



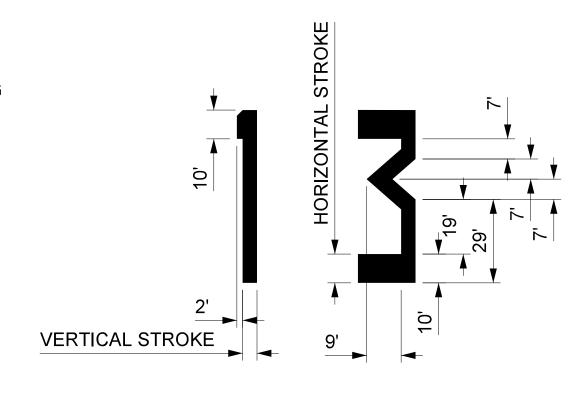
RUNWAY HOLDING POSITION ON TAXIWAYS MARKING DETAIL

NOT TO SCALE



TAXIWAY CENTERLINE MARKING DETAIL

NOT TO SCALE



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 10DIAGONAL STROKE OF 5
- 3. FOR DOUBLE DESIGNATIONS, THE CENTER OF THE OUTER EDGES OF THE TWO NUMERALS IS CENTERED ON THE RUNWAY PAVEMENT CENTERLINE.

RUNWAY DESIGNATION NUMERALS DETAIL

NOT TO SCALE

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		CHK CHK	DRN NOB					
			DES ADH					
ght ©	ght © NO REVISIONS DRN CHK	ght © NO REVISIONS DRN CHK	снк рвн					
NO REVISIONS	NO REVISIONS DRN CHK	NO REVISIONS DRN CHK	АРР					
NO REVISIONS	NO REVISIONS DRN CHK	NO REVISIONS DRN CHK	Copyright ©					
			AECOM All Rights Reserved	ON	REVISIONS	DRN	CHK	PΑ

AECOM

FAA AIP PROJECT NO. 3-19-0067-012 OELWEIN MUNICIPAL AIRPORT OELWEIN, IOWA	MARKING DETAILS
	CH 15, 202
ROJECT NO	6067664
LENAME	



30" LONG #4 TIE BAR SPACED 30"

18" LONG #5 DOWEL SPACED 12"

---- SAW CUT

CRACK

WEATHER AND TEMPERATURE REQUIREMENTS:

DO NOT BEGIN REPAIRS DURING INCLEMENT WEATHER.

DO NOT PLACE CONCRETE UNLESS THE AMBIENT TEMPERATURE IS AT LEAST $40^{\circ}F$ ($4^{\circ}C$) AND RISING AND THE CONCRETE TEMPERATURE IS GREATER THAN OR EQUAL TO $50^{\circ}F$ ($10^{\circ}C$).

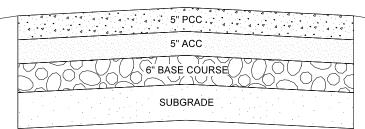
DO NOT PLACE CONCRETE ON FROZEN BASE, ICE, OR SNOW.

WHEN THE AMBIENT TEMPERATURE EXCEEDS 85°F (29°C), SPRINKLE THE ADJACENT CONCRETE AND BASE WITH WATER IMMEDIATELY BEFORE PLACING CONCRETE.

PLACE CONCRETE AT THE COOLEST TEMPERATURE PRACTICABLE, AND NEVER ALLOW THE PLACED CONCRETE TEMPERATURE TO EXCEED $90^\circ F$ ($32^\circ C$).

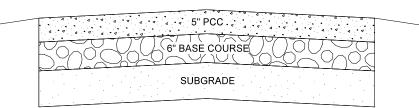
OTE:

TRANSVERSE GROOVING IS REQUIRED. SEE IDOT SECTION 2301.16.



EXISTING PAVEMENT SECTION - CONNECTOR TAXIWAY AND RUNWAY 13/31

NOT TO SCALE



EXISTING PAVEMENT SECTION - APRON

NOT TO SCALE



OELWEIN MUNICIPAL AIRPORT
OELWEIN, IOWA
DATCHING DETAILS

DATE MARCH 15, 2022 PROJECT NO

FILENAME

SHEET NO

DRAWING NO

FULL DEPTH REPAIR IN RIGID PAVEMENT FULL SLAB REPLACEMENT

NOT TO SCALE

A

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, ETC.; AND ALL NOTAMS HAVE BEEN ISSUED FOR AFFECTED AREAS OF THE AIRFIELD.
- 2. MARK THE LIMITS OF THE AREA TO BE REPAIRED
- MAKE A FULL-DEPTH SAW CUT ALONG THE CONSTRUCTED JOINTS AT LEAST 2 FEET (0.6 M) BEYOND THE LIMITS OF THE DAMAGED PAVEMENT AND MAKE A SAW CUT PERPENDICULAR TO THE CONSTRUCTED JOINTS FROM THESE POINTS ACROSS THE WIDTH OF THE PAVEMENT PANEL.
- 4. IF DOWELS OR TIE BARS ARE PRESENT ALONG ANY EDGES, EITHER OF THE FOLLOWING OPTIONS IS ACCEPTABLE:
 - -IF DOWELS OR TIE BARS WILL BE EXPOSED AND SAVED, EDGES WILL BE SAWED FULL DEPTH JUST BEYOND THE END OF THE DOWELS OR TIE BARS. CAREFULLY SAW JOINTS ON THE JOINT LINE TO WITHIN 1 INCH (2.5 CM) OF THE DEPTH OF THE DOWEL OR TIE BAR. CAREFULLY BREAK UP THE NARROW STRIPS OF CONCRETE ALONG DOWELED EDGES USING LIGHT 30 POUND (14 KG) OR LESS JACKHAMMERS, OR OTHER APPROVED EQUIPMENT.
 - -IF DOWELS OR TIE BARS ARE TO BE CUT AND REPLACED, MAKE A FULL DEPTH SAW CUT ALONG THE CONSTRUCTED JOINT CUTTING THE DOWELS AND TIE BARS.
- TAKE CARE TO PREVENT DAMAGE TO THE DOWELS, TIE BARS, OR TO CONCRETE THAT REMAINS IN PLACE.
- 6. MAKE ADDITIONAL SAW CUTS WITHIN THE LIMITS OF THE REPAIR AREA DIVIDING THE REPAIR AREA INTO QUARTERS.
- 7. USE LIGHT WEIGHT EQUIPMENT, I.E., JACKHAMMERS LESS THAN 30 POUNDS (14 KG), HAND TOOLS, ETC., TO REMOVE THE DAMAGED PCC PAVEMENT. WORK FROM INSIDE THE SAW CUT TOWARD THE INTERIOR OF THE AREA BEING REMOVED TO PREVENT DAMAGE TO THE PAVEMENT REMAINING.
- 8. REMOVE BY HAND ALL LOOSE MATERIAL AND VACUUM TO MINIMIZE ANY DISTURBANCE TO THE SUBGRADE OR BASE MATERIALS.
- 9. RESTORE SUBGRADE OR BASE MATERIAL IF REQUIRED.
- 0. IF EXISTING DOWEL BARS HAVE BEEN CUT AND REMOVED, INSTALL DOWEL BARS OF THE TYPE AND SIZE OF THE EXISTING DOWEL BARS IN THE JOINTS THAT ARE PARALLEL TO THE DIRECTION OF TRAFFIC. ON APRONS AND AREAS WHERE TRAFFIC MAY BE OBLIQUE TO JOINTS, INSTALL DOWELS IN BOTH JOINT FACES.
- 11. INSTALL DOWELS BY DRILLING AND EPOXYING INTO THE PCC PAVEMENT AT LEAST 3 INCHES (8 CM) FROM THE LOCATION OF THE EXISTING DOWELS WHICH WERE CUT OFF. SPACE DOWEL BARS AT LEAST 3 INCHES (8 CM) FROM THE EDGE OF THE REPAIR AREA AND AT LEAST ONE BAR SPACING APART AT CORNERS OF INTERSECTING JOINTS.
- 12. OIL THE EXPOSED ENDS OF DOWEL BARS PRIOR TO BACKFILLING REPAIR AREA WITH CONCRETE.
- 13. INSTALL NONABSORBENT BOARD OR OTHER APPROVED MATERIAL WITHIN THE LIMITS OF THE JOINT SEAL RESERVOIR (STEP 1). THE NONABSORBENT BOARD WILL BE A STANDARD ½INCH (13 MM) ASPHALT IMPREGNATED FIBER-BOARD. FOR JOINTS WIDER THAN ½ INCH (13 MM), ADJUST THE WIDTH OF THE NONABSORBENT BOARD TO FIT THE JOINT WIDTH.
- 14. FILL THE REPAIR AREA WITH CONCRETE AND CONSOLIDATE WITH A VIBRATOR. USE CONCRETE MEETING THE REQUIREMENTS OF IDOT M-4 PCC MAINTENANCE MIX FOR PAVEMENTS.
- FINISH THE SURFACE TO MATCH THE EXISTING SURFACE.
- 16. SPRAY WITH CURING COMPOUND PER ASTM C309.
- 17. REMOVE THE NONABSORBENT BOARD OR OTHER APPROVED MATERIAL (STEP 2) AND PLACE JOINT SEALANT PER ASTM D6690 (STEP 3).
- 18. THOROUGHLY CLEAN THE WORK AREA BEFORE OPENING THE PAVEMENT TO AIRCRAFT TRAFFIC.
- 19. DO NOT ALLOW TRAFFIC UNTIL THE CONCRETE HAS CURED.

AECOM

ATE RUNWAY, TAXIWAY, AND APRON
AIP PROJECT NO. 3-19-0067-012
ELWEIN MUNICIPAL AIRPORT
OELWEIN, IOWA

MARCH 15, 2022
PROJECT NO 60676643

FILENAME

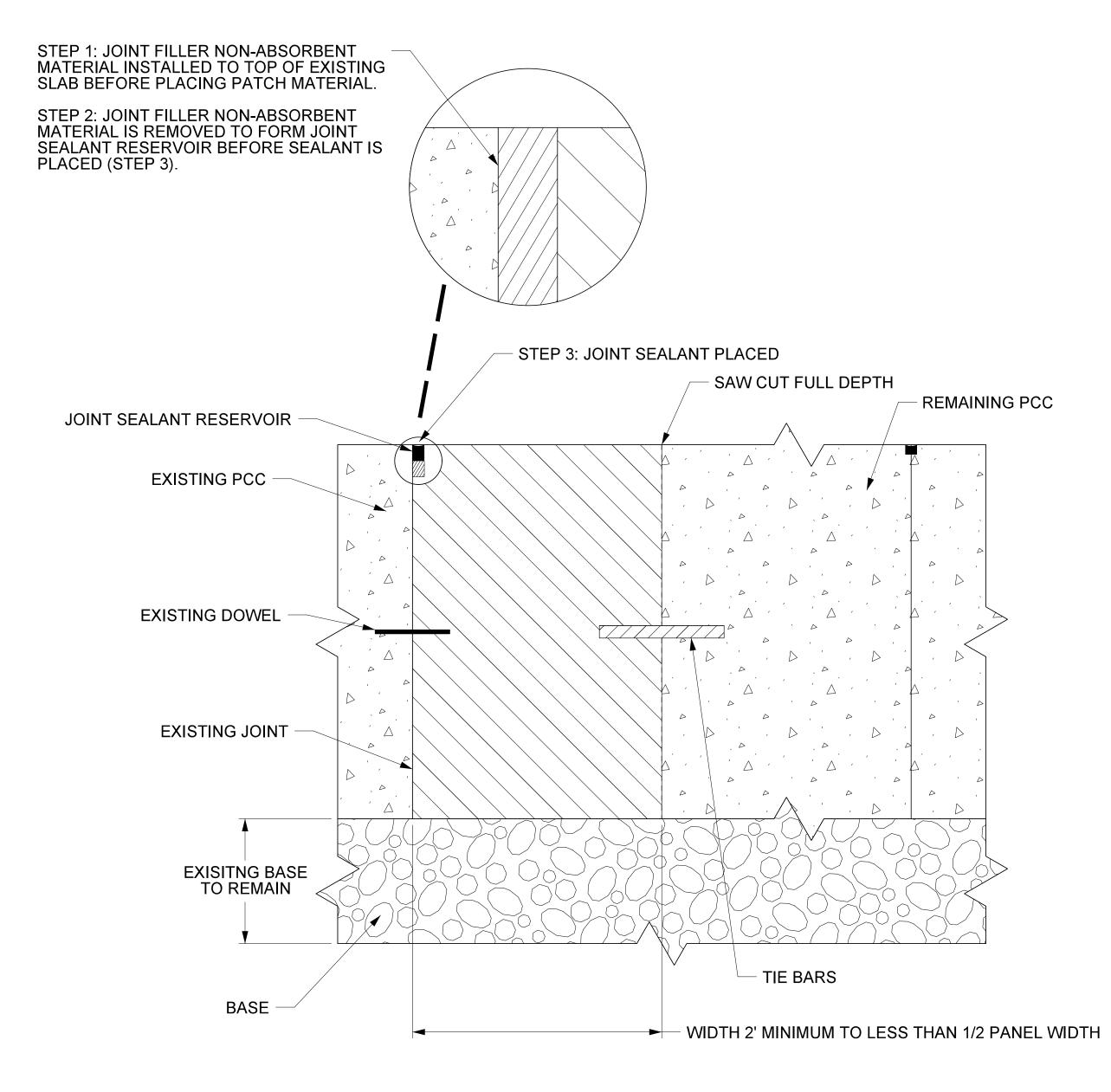
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A



FULL DEPTH REPAIR IN RIGID PAVEMENT PARTIAL SLAB REPLACEMENT

NOT TO SCALE

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, ETC.; AND ALL NOTAMS HAVE BEEN ISSUED FOR AFFECTED AREAS OF THE AIRFIELD.
- 2. MARK THE LIMITS OF THE AREA TO BE REPAIRED
- 3. MAKE A FULL-DEPTH SAW CUT ALONG THE CONSTRUCTED JOINTS AT LEAST 2 FEET (0.6 M) BEYOND THE LIMITS OF THE DAMAGED PAVEMENT AND MAKE A SAW CUT PERPENDICULAR TO THE CONSTRUCTED JOINTS FROM THESE POINTS ACROSS THE WIDTH OF THE PAVEMENT PANEL. SEE FIGURE A-4.
- 4. IF DOWELS OR TIE BARS ARE PRESENT ALONG ANY EDGES, EITHER OF THE FOLLOWING OPTIONS IS ACCEPTABLE:

-IF DOWELS OR TIE BARS WILL BE EXPOSED AND SAVED, SAW EDGES FULL DEPTH JUST BEYOND THE END OF THE DOWELS OR TIE BARS. CAREFULLY SAW JOINTS ON THE JOINT LINE TO WITHIN 1 INCH (2.5 CM) OF THE DEPTH OF THE DOWEL OR TIE BAR. CAREFULLY BREAK UP AND REMOVE THE NARROW STRIPS OF CONCRETE ALONG DOWELED EDGES USING LIGHT 30 POUND (14 KG) OR LESS JACKHAMMERS, OR OTHER APPROVED EQUIPMENT.

- -IF DOWELS OR TIE BARS ARE TO BE CUT AND REPLACED, MAKE A FULL DEPTH SAW CUT ALONG THE CONSTRUCTED JOINT CUTTING THE DOWELS AND TIE BARS.
- 5. TAKE CARE TO PREVENT DAMAGE TO THE DOWELS, TIE BARS, OR TO CONCRETE THAT REMAINS IN PLACE.
- MAKE ADDITIONAL SAW CUTS WITHIN THE LIMITS OF THE REPAIR AREA, DIVIDING THE REPAIR AREA INTO QUARTERS.
- 7. USE LIGHT WEIGHT EQUIPMENT, I.E., JACKHAMMERS LESS THAN 30 POUNDS (14 KG), HAND TOOLS, ETC., TO REMOVE THE DAMAGED PCC PAVEMENT. WORK FROM INSIDE THE SAW CUT TOWARD THE INTERIOR OF THE AREA BEING REMOVED TO PREVENT DAMAGE TO THE PAVEMENT REMAINING.
- 8. REMOVE BY HAND ALL LOOSE MATERIAL AND VACUUM TO MINIMIZE ANY DISTURBANCE TO THE SUBGRADE OR BASE MATERIALS.
- 9. RESTORE SUBGRADE OR BASE MATERIAL IF REQUIRED.
- 10. INSTALL DEFORMED TIE-BARS IN THE FACE OF THE PARENT PANEL BY DRILLING HORIZONTAL HOLES IN TO THE FACE AND USING AN EPOXY BONDING AGENT.
- 11. IF EXISTING DOWEL BARS HAVE BEEN CUT AND REMOVED, INSTALL DOWEL BARS OF THE TYPE AND SIZE OF THE EXISTING DOWEL BARS IN THE JOINTS THAT ARE PARALLEL TO THE DIRECTION OF TRAFFIC. ON APRONS AND AREAS WHERE TRAFFIC MAY BE OBLIQUE TO JOINTS. INSTALL DOWELS IN BOTH JOINT FACES.
- 12. INSTALL DOWELS BY DRILLING AND EPOXYING INTO THE PCC PAVEMENT AT LEAST 3 INCHES (8 CM) FROM THE LOCATION OF THE EXISTING CUT DOWELS. SPACE DOWEL BARS AT LEAST 3 INCHES (8 CM) FROM THE EDGE OF THE REPAIR AREA AND AT LEAST ONE BAR SPACING APART AT CORNERS OF INTERSECTING JOINTS.
- 13. OIL THE EXPOSED ENDS OF DOWEL BARS PRIOR TO BACKFILLING REPAIR AREA WITH CONCRETE.
- 4. INSTALL NONABSORBENT BOARD OR OTHER APPROVED MATERIAL WITHIN THE LIMITS OF THE JOINT SEAL RESERVOIR (STEP 1). THE NONABSORBENT BOARD WILL BE A STANDARD ½INCH (13 MM) ASPHALT IMPREGNATED FIBER-BOARD. FOR JOINTS WIDER THAN ½ INCH (13 MM). ADJUST THE WIDTH OF THE NONABSORBENT BOARD TO FIT THE JOINT WIDTH.
- 15. FILL THE REPAIR AREA WITH CONCRETE AND CONSOLIDATE WITH A VIBRATOR. USE CONCRETE MEETING THE REQUIREMENTS OF IDOT M-4 PCC MAINTENANCE MIX FOR PAVEMENTS.
- 6. FINISH THE SURFACE TO MATCH THE EXISTING SURFACE.
- 17. SPRAY WITH CURING COMPOUND PER ASTM C309.
- 18. REMOVE THE NONABSORBENT BOARD OR OTHER APPROVED MATERIAL (STEP 2) AND PLACE JOINT SEALANT PER ASTM D6690 (STEP 3).
- 19. THOROUGHLY CLEAN THE WORK AREA BEFORE OPENING THE PAVEMENT TO AIRCRAFT TRAFFIC.
- 20. DO NOT ALLOW TRAFFIC UNTIL THE CONCRETE HAS CURED.

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CHK DBH				
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SILITATE KUNWAY, TAXIWAY, AND APROISAA AIP PROJECT NO. 3-19-0067-012 OELWEIN MUNICIPAL AIRPORT OELWEIN, IOWA

MARCH 15, 2022
PROJECT NO 60676643

FILENAME

SHEET NO

DRAWING NO

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FULL DEPTH REPAIR IN RIGID PAVEMENT - CORNER BREAK

NOT TO SCALE

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, ETC.; AND ALL NOTAMS HAVE BEEN ISSUED FOR AFFECTED AREAS OF THE AIRFIELD.
- 2. MARK THE LIMITS OF THE AREA TO BE REPAIRED. FOR CORNER BREAKS THE REPAIR AREA SHOULD BE SQUARE.
- 3. MAKE A FULL-DEPTH SAW CUT ALONG THE CONSTRUCTED JOINTS AT LEAST 2 FEET (0.6 M) BEYOND THE LIMITS OF THE BREAK AND MAKE SAW CUTS PERPENDICULAR TO THE CONSTRUCTED JOINTS FROM THESE POINTS UNTIL THEY INTERSECT. SEE FIGURE A-4.
- 4. IF DOWELS OR TIE BARS PRESENT ALONG ANY EDGES ARE CUT AND REPLACED, MAKE A FULL DEPTH SAW CUT ALONG THE CONSTRUCTED JOINT CUTTING THE DOWELS AND TIE BARS.
- 5. TAKE CARE TO PREVENT DAMAGE TO REMAINING DOWELS, TIE BARS, OR CONCRETE.
- USE LIGHT WEIGHT EQUIPMENT, I.E., JACKHAMMERS LESS THAN 30 POUNDS (14 KG), HAND TOOLS, ETC., TO REMOVE THE REMAINING DAMAGED PCC PAVEMENT. WORK FROM INSIDE THE SAW CUT TOWARD THE EDGE OF THE SLAB OF THE AREA BEING REMOVED TO PREVENT DAMAGE TO THE PAVEMENT REMAINING.
- 7. REMOVE BY HAND ALL LOOSE MATERIAL AND VACUUM TO MINIMIZE ANY DISTURBANCE TO THE SUBGRADE OR BASE MATERIALS.
- 8. RESTORE SUBGRADE OR BASE MATERIAL IF REQUIRED.
- 9. INSTALL DEFORMED TIE-BARS IN EACH FACE OF THE PARENT PANEL BY DRILLING HORIZONTAL HOLES INTO THE FACE AND USING AN EPOXY BONDING AGENT.
- 0. INSTALL NONABSORBENT BOARD OR OTHER APPROVED MATERIAL WITHIN THE LIMITS OF THE JOINT SEAL RESERVOIR (STEP 1). THE NONABSORBENT BOARD WILL BE A STANDARD ½INCH (13 MM) ASPHALT IMPREGNATED FIBER-BOARD OR OTHER APPROVED MATERIAL. FOR JOINTS WIDER THAN ½INCH (13 MM), ADJUST THE WIDTH OF THE NONABSORBENT BOARD TO FIT THE JOINT WIDTH.
- 11. FILL THE REPAIR AREA WITH CONCRETE AND CONSOLIDATE WITH A VIBRATOR. CONCRETE SHOULD MEET THE REQUIREMENTS OF IDOT M-4 PCC MAINTENANCE MIX FOR PAVEMENTS.
- 12. FINISH THE SURFACE TO MATCH EXISTING PAVEMENT.
- SPRAY WITH CURING COMPOUND PER ASTM C309.
- 14. REMOVE THE NONABSORBENT BOARD (STEP 2) AND PLACE JOINT SEALANT PER ASTM D6690 AND MANUFACTURER'S REQUIREMENTS (STEP 3).
- 15. DO NOT ALLOW TRAFFIC UNTIL THE PATCH HAS CURED.
- 6. COMPLETELY CLEAN THE WORK AREA BEFORE OPENING THE PAVEMENT TO AIRCRAFT TRAFFIC.

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FAA AIP PROJECT NO. 3-19-0067-012	OELWEIN MUNICIPAL AIRPORT	OELWEIN, IOWA	

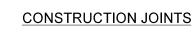
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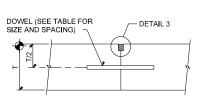
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22

Plotted by: AECOM Des Moines, Iowa
Printed from MicroStation V8i
3/15/2022, 10:11:57 AM

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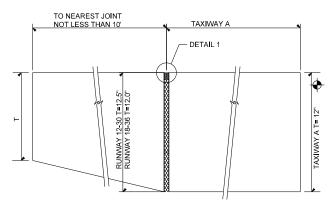
TYPE E - DOWELED NOT TO SCALE

* JOINT TYPE TO BE USED AS TRANSVERSE JOINT AT END OF EACH DAYS POUR OR WHERE ANY HEADER HAS BEEN REQUIRED.

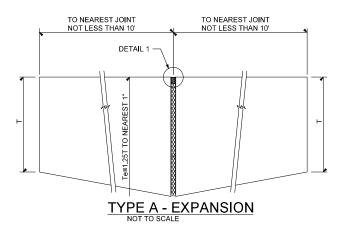
- 3" CLEAR

6X6-W2 9XW2 9 WELDED WIRE FABRIC

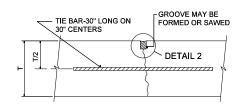
ISOLATION JOINTS



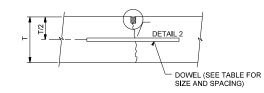
TYPE 1/2 A - EXPANSION



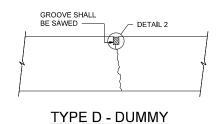
CONTRACTION JOINTS



TYPE B - HINGED NOT TO SCALE



TYPE C - DOWELED



P.C.C. TO ASPHALT

NOTE: ALL DOWEL BARS AND DEFORMED TIE BARS SHALL BE EPOXY COATED.

REQUIREMENTS.

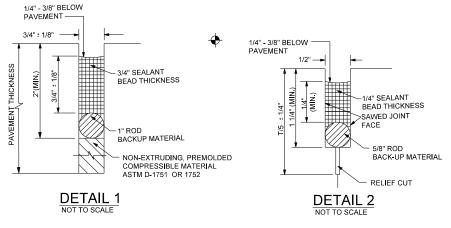
ACTUAL JOINT ASPECT RATIO SHOULD BE ADJUSTED TO MEET SPECIFIC JOINT SEALANT MANUFACTURER'S

P.C.C.

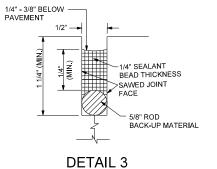
- DETAIL 4

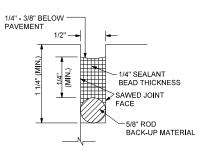
ASPHALT





2.00" -





DETAIL 4

D	OWEL TA	ABLE			
PAVEMENT THICKNESS	DOWEL SIZ	ZE AND SPACI	lG		
T(IN.)	DIAMETER	LENGTH	SPACING		
5.0"	5/8" 18" 12"				

PCC THICKNESS	
ALL	T = 5.0"

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REHABILITATE RUNWAY, TAXIWAY, AND APRON FAA AIP PROJECT NO. 3-19-0067-012 OELWEIN MUNICIPAL AIRPORT OELWEIN, IOWA JOINTING DETAILS

EMARCH 15, 2022 PROJECT NO 60676643 FILENAME

SHEET NO DRAWING NO

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