

LETTING ITEM NO. 03A
MARCH 11, 2022 LETTING

CONSTRUCTION PLANS

CR007
TOTAL SHEETS: 7

FOR

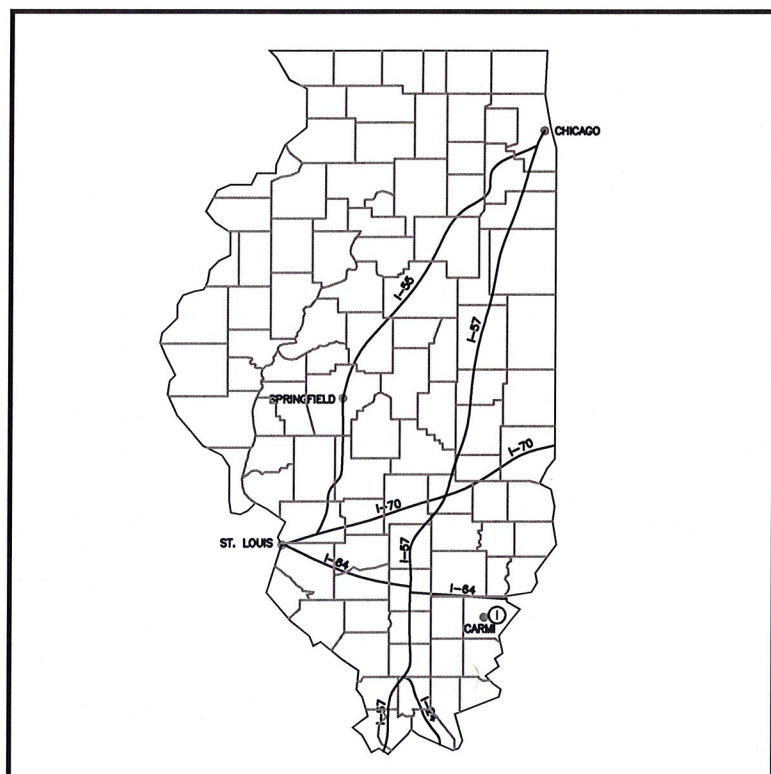
CARMI MUNICIPAL AIRPORT

MAINTENANCE REHABILITATION OF RUNWAY AND TAXIWAY: CRACK SEAL, EMULSIFIED ASPHALT SEAL COAT AND REMARKING

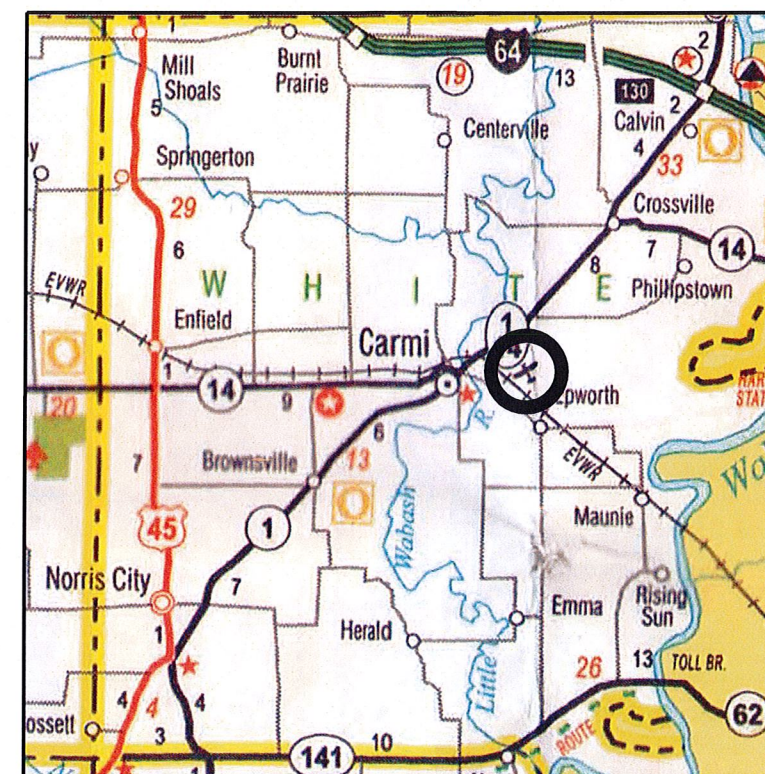
ILLINOIS PROJECT NUMBER: CUL-4789
SBG PROJECT NUMBER: 3-17-SBGP-139/144/162

CARMI, ILLINOIS
WHITE COUNTY

100% SUBMITTAL - JANUARY 14, 2022



LOCATION MAP



VICINITY MAP

BROWN AND ROBERTS, INC.
CONSULTING ENGINEER
PRESIDENT
SUBMITTED BY: *Jim W. Brown*
JIM W. BROWN, PRESIDENT
DATE SUBMITTED: 1/14/2022
LICENSE NUMBER: 062-035047
LICENSE EXPIRATION DATE: NOVEMBER 30, 2023

PLANS PREPARED BY:

BROWN AND ROBERTS, INC.
1 WESTRIDGE ROAD
HARRISBURG, IL. 62946
(618) 252-8111

CARMI MUNICIPAL AIRPORT
AIRPORT MANAGER
APPROVED BY: *Heg Brown*
BREG BROWN
DATE: 1/14/2022

CARMI MUNICIPAL AIRPORT	
IL PROJECT NO. CUL-4789	
SBG NO. 3-17-SBGP-139/144/162	
INDEX OF SHEETS, SUMMARY OF QUANTITIES AND MATERIAL SCHEDULES	
SHEET 2 OF 7	CR007

INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, SUMMARY OF QUANTITIES AND MATERIAL SCHEDULES
3	CONSTRUCTION SAFETY & PHASING PLAN
4	RUNWAY 18-36 AND TAXIWAY PLAN VIEW 1
5	RUNWAY 18-36 AND TAXIWAY PLAN VIEW 2
6	RUNWAY 18-36 AND TAXIWAY PLAN VIEW 3
7	TYPICAL DETAILS

SUMMARY OF QUANTITIES			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
AR150520	MOBILIZATION	L SUM	1
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	FOOT	28,735
AR608510	EXISTING ASPHALT SURFACE TREATMENT	SQ YD	52,824
AR620520	PAVEMENT MARKING - WATERBORNE	SQ FT	31,268
AR620525	PAVEMENT MARKING - BLACK BORDER	SQ FT	1,066

CLEAN & SEAL BITUMINOUS CRACKS			
DESCRIPTION	LENGTH (FOOT)	NO. REQ'D	TOTAL (SQ FT)
RUNWAY MAINLINE JOINT CRACKS 17+00 TO 57+00	4,000	5	20,000
EAST EDGE OF RUNWAY @ TAXIWAY A3	90	1	90
CL TAXIWAY A-3	220	1	220
TRANSVERSE & RANDOM TAXIWAY A3	200	1	200
CL TAXIWAY A 17+35 TO 56+10	3,875	1	3,875
TRANSVERSE & RANDOM TAXIWAY A	2,800	1	2,800
CL TAXIWAY A-2	185	1	185
EAST EDGE OF RUNWAY @ TAXIWAY A2	130	1	130
TRANSVERSE & RANDOM TAXIWAY A2	250	1	250
EAST EDGE OF RUNWAY @ TAXIWAY A1	85	1	85
CL TAXIWAY A-1	440	1	440
SOUTH EDGE TAXIWAY A-1 @ TAXIWAY	140	1	140
TAXIWAY A-1 AND MAIN APRON	120	1	120
TRANSVERSE & RANDOM TAXIWAY A1	200	1	200
TOTAL			28,735

PAVEMENT MARKING - WATERBORNE SCHEDULE			
DESCRIPTION	UNIT AREA (SQ FT)	NO. REQ'D	TOTAL (SQ FT)
NUMERAL 1	318	1	318
NUMERAL 8	876	1	876
NUMERAL 3	633	1	633
NUMERAL 6	712	1	712
CENTERLINE STRIPE - 120' x 3'	360	14	5,040
CENTERLINE STRIPE - 110' x 3'	330	4	1,320
AIMING LINES - 100' x 15'	1,500	4	6,000
THRESHOLD LINES - 150' x 5.75'	863	12	10,356
TOTAL WHITE			25,255

PAVEMENT MARKING - BLACK BORDER SCHEDULE			
DESCRIPTION	UNIT AREA (SQ FT)	NO. REQ'D	TOTAL (SQ FT)
TXY A1 HOLD POSITION MARKING	335	1	335
TXY A2 HOLD POSITION MARKING	385	1	385
TXY A3 HOLD POSITION MARKING	346	1	346
TOTAL BLACK BORDER			1066

FULL PARALLEL TAXIWAY A CENTERLINE	4,041	1	4,041
HOLD POSITION MARKING - TWY A1	142	1	142
TAXIWAY A1 CENTERLINE	172	1	172
TAXIWAY A1 CONNECTOR CENTERLINE	444	1	444
HOLD POSITION MARKING - TWY A2	152	1	152
TAXIWAY A-2 CENTERLINE	772	1	772
HOLD POSITION MARKING - TWY A3	134	1	134
TAXIWAY A-3 CENTERLINE	156	1	156
TOTAL YELLOW			6,013
TOTAL WATERBORNE			31,268

SCOPE OF WORK

THE PROJECT SCOPE CONSISTS OF CRACK SEALING, APPLICATION OF AN ESTABLISHED ASPHALT SEAL COATING AND RE-MARKING THE RUNWAY AND TAXIWAY, ALONG WITH OTHER NECESSARY AND RELATED WORK.

PROPOSED SAFETY PLAN

GENERAL - THE CARMI MUNICIPAL AIRPORT CURRENTLY HAS A PAVED NORTH-SOUTH RUNWAY (4001-FT BY 75-FT).

ONCE RUNWAY 18/36 AND TAXIWAY ARE CLOSED, IT SHALL REMAIN CLOSED UNTIL THE RUNWAY AND TAXIWAY RE-MARKING OPERATIONS HAVE BEEN COMPLETED. THE RUNWAY SHALL REMAIN CLOSED AT NIGHT DURING CONSTRUCTION.

CONTRACTOR'S RESPONSIBILITIES

IDENTIFICATION - THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE PROPERLY MARKED WITH 3-FOOT SQUARE INTERNATIONAL ORANGE AND WHITE CHECKERED FLAGS ANYTIME THEY ARE ON AIRPORT PROPERTY.

THE CONTRACTOR AND HIS EMPLOYEES SHALL BE RESTRICTED TO THE WORK AREA.

EQUIPMENT PARKING AND STORAGE - THE CONTRACTOR'S EQUIPMENT PARKING, STORAGE, AND EMPLOYEE PARKING WILL BE AT THE LOCATION SHOWN ON THIS SHEET. ONLY CONTRACTOR VEHICLES AND EQUIPMENT REQUIRED FOR CONSTRUCTION WILL BE ALLOWED OUTSIDE THIS AREA.

BARRICADES AND TRAFFIC CONES - IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS REQUIRED AND AS DIRECTED BY THE RESIDENT ENGINEER. BARRICADES, THEIR MAINTENANCE, PLACEMENT, AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING PAVEMENTS CAUSED BY HIS PERSONNEL OR EQUIPMENT.

HAUL ROUTE AND EQUIPMENT PARKING

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND EQUIPMENT PARKING AREA SHOWN OF THIS SAFETY PLAN. THE PROPOSED EQUIPMENT PARKING AREA WILL BE APPROXIMATELY 80-FT BY 80-FT. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT, ALL AREAS DISTURBED WILL BE RESTORED AS NEEDED TO ITS ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND EQUIPMENT PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

UTILITY NOTE

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND ORGANIZATIONS THAT HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY EXCAVATION BEGINS. THE CONTRACTOR SHALL CALL JULIE (1-800-892-0123) TO ACCOMPLISH THESE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL NON-JULIE UTILITIES LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UTILITIES ARE TO BE LOCATED PRIOR TO THE START OF CONSTRUCTION.

J.U.L.I.E. INFORMATION

COUNTY.....WHITE
 CITY.....CARMIL
 TWSHP/RNG.....T5S-R10E
 SECTION NO.....17
 NEAREST MAJOR ROAD INTERSECTION...ILLINOIS ROUTE 1 AND COUNTY HIGHWAY 5 (COUNTY ROAD 1500N)
 AIRPORT ADDRESS...CARMIL MUNICIPAL AIRPORT
 1379 COUNTY ROAD 1500 N
 CARMIL, IL 62821

NOTE:

THE COST OF CONSTRUCTING, PLACING, MAINTAINING, AND REMOVING CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE RESIDENT ENGINEER. THE CROSSES WILL BE PLACED AT THE ENDS OF THE RUNWAY AND SECURED IN A MANNER APPROVED BY THE RESIDENT ENGINEER. THE PROPOSED CROSSES WILL BE PLACED WHEN THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT AND REMOVAL OF THE CROSSES AT NO ADDITIONAL COST TO THE CONTRACT.

RUNWAY CLOSURE PROCEDURES:

- * CONTACT THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- * ISSUANCE OF NOTAM BY THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- * PLACEMENT OF CROSSES (SEE DETAIL THIS SHEET).
- * PLACEMENT OF LIGHTED BARRICADES. ONLY AT THE TIME THAT ALL OF THE ABOVE ARE COMPLETED MAY ANY CONSTRUCTION OPERATIONS WITHIN 200-FT OF THE AFFECTED RUNWAY CENTERLINE AND WITHIN 600 FT OF THE RUNWAY END BEGIN.
- * RUNWAY LIGHTS AND THE PRECISION APPROACH PATH INDICATORS (PAPI) SHALL BE DISABLED DURING CONSTRUCTION

RUNWAY RE-OPENING PROCEDURES:

- * REMOVE CROSSES.
- * REMOVE LIGHTED BARRICADES.
- * NOTIFY THE AIRPORT MANAGER OR HIS REPRESENTATIVE TO CANCEL THE NOTAM.
- * CANCELLATION OF THE NOTAM. A CLOSED RUNWAY WILL NOT BE RE-OPENED UNTIL ALL EQUIPMENT AND WORK ARE FURTHER THAN 200 FT. FROM THE AFFECTED RUNWAY CENTERLINE
- * RUNWAY LIGHTS AND THE PRECISION APPROACH PATH INDICATORS (PAPI) SHALL BE REACTIVATED.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT IS 12 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A PAVEMENT MARKING SERVICE TRUCK.

CARMIL MUNICIPAL AIRPORT

IL PROJECT NO. CUL-4789

SBG NO. 3-17-SBGP-139/144/162

CONSTRUCTION SAFETY & PHASING PLAN

SHEET 3 OF 7

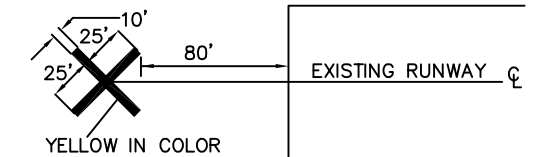
CR007

AIRPORT SECURITY

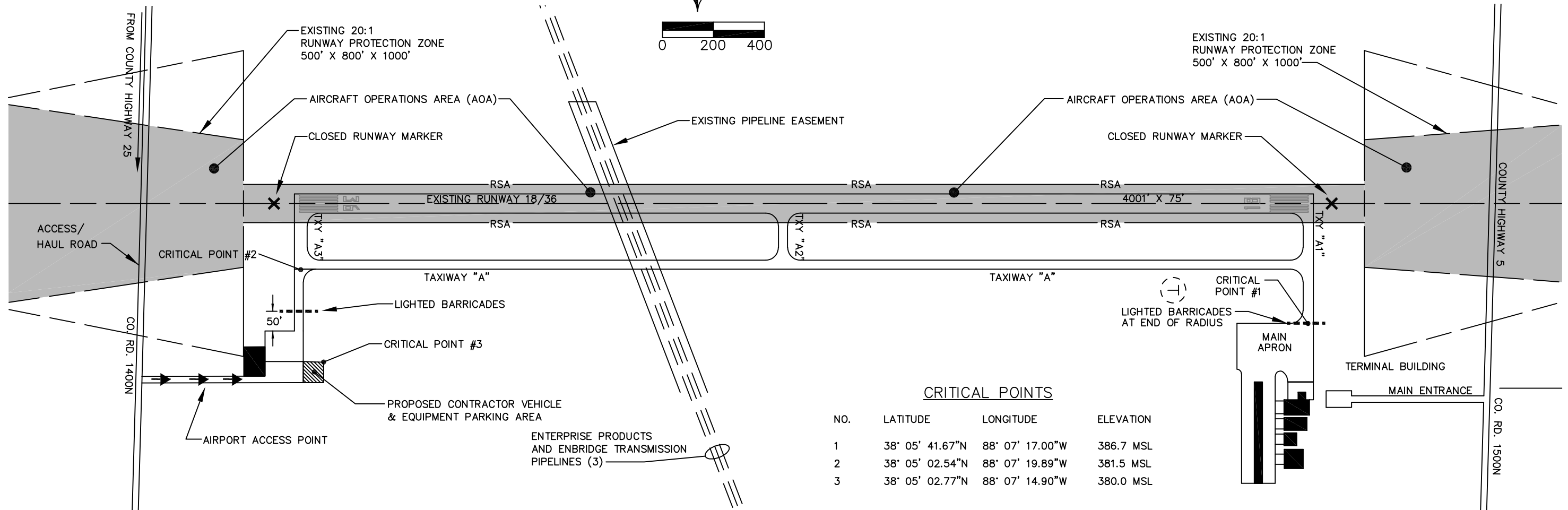
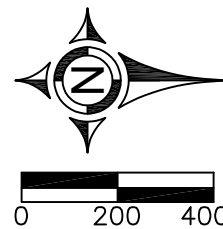
AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. THE PROPOSED HAUL ROUTE SHOWN ON THIS SAFETY PLAN IS THE ONLY ACCESS CONTRACTOR EQUIPMENT AND PERSONNEL WILL BE ALLOWED TO USE. THE CONTRACTOR SHALL PROVIDE BARRICADES AT THIS ACCESS AND ENSURE THE BARRICADES ARE IN PLACE AT THE END OF EACH WORKING DAY.

AIRCRAFT OPERATIONAL AREA

THE CONTRACTOR, HIS EMPLOYEES, OR ANY EQUIPMENT WILL NOT PROCEED WITH ANY WORK WITHIN THE AIRCRAFT OPERATIONAL AREA WITHOUT FIRST CLOSING THE RUNWAY.

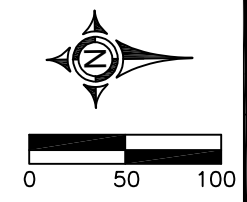


DETAIL OF CROSS FOR CLOSED RUNWAY
 "NOT TO SCALE"



CRITICAL POINTS

NO.	LATITUDE	LONGITUDE	ELEVATION
1	38° 05' 41.67"N	88° 07' 17.00"W	386.7 MSL
2	38° 05' 02.54"N	88° 07' 19.89"W	381.5 MSL
3	38° 05' 02.77"N	88° 07' 14.90"W	380.0 MSL

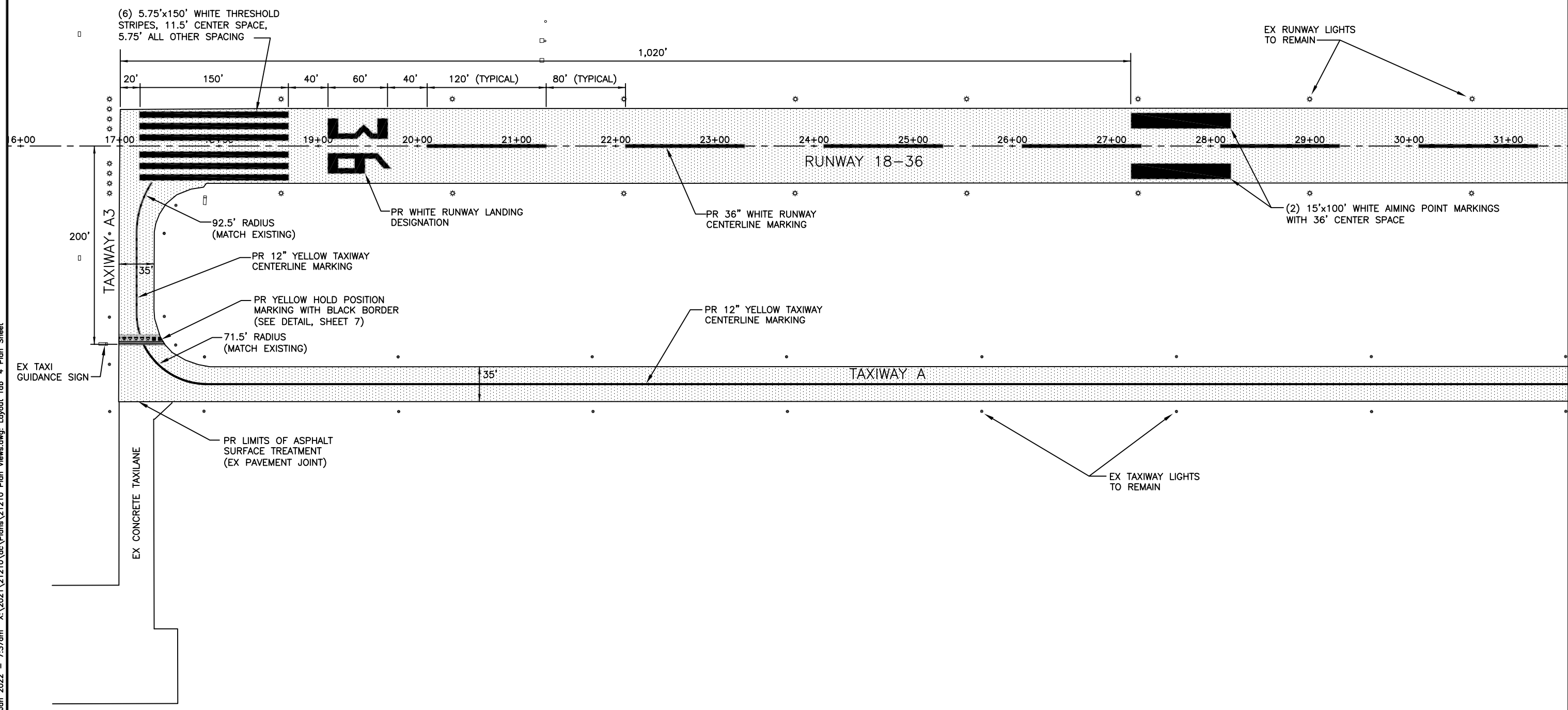


LEGEND

PROPOSED ASPHALT SURFACE TREATMENT

- CLEAN & SEAL BITUMINOUS CRACKS NOTES:**
1. THE AMOUNT OF CRACKS TO BE CLEANED & SEALED SHALL BE THE NUMBER OF LINEAR FEET OF CRACKS MARKED BY THE RESIDENT ENGINEER.
 2. BITUMINOUS CRACK CLEANING & SEALING WILL BE PAID FOR PER L.F. UNDER ITEM AR201661 - CLEAN & SEAL BITUMINOUS CRACKS.

- PAVEMENT MARKING - WATERBORNE NOTES:**
1. IF THE SEAL COAT MANUFACTURER REQUIRES A CURE TIME PERIOD BETWEEN THE COATS OF WATERBORNE PAINT, GLASS BEADS WILL BE REQUIRED IN BOTH APPLICATIONS OF WHITE AND YELLOW PAVEMENT MARKING.
 2. CUT-OFF SHEETS ARE REQUIRED TO ENSURE STRAIGHT EDGES.



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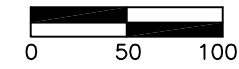
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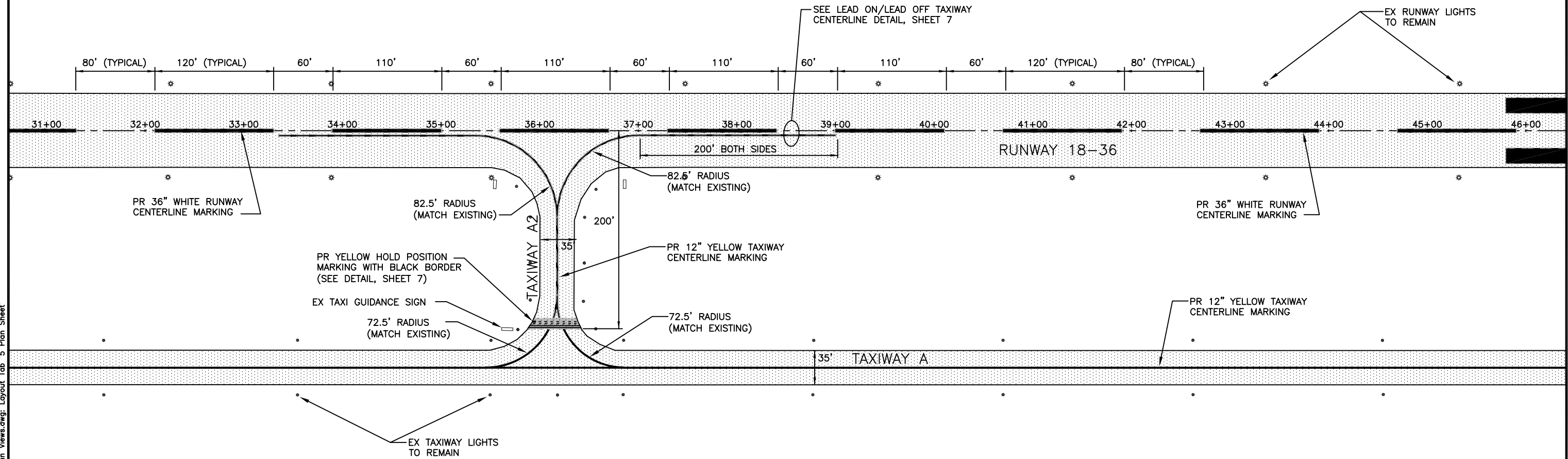
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SBG NO. 3-17-SBGP-139/144/162	
RUNWAY 18-36 AND TAXIWAY	
PLAN VIEW 2	
SHEET 5 OF 7	CR007



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CLEAN & SEAL BITUMINOUS CRACKS NOTES:

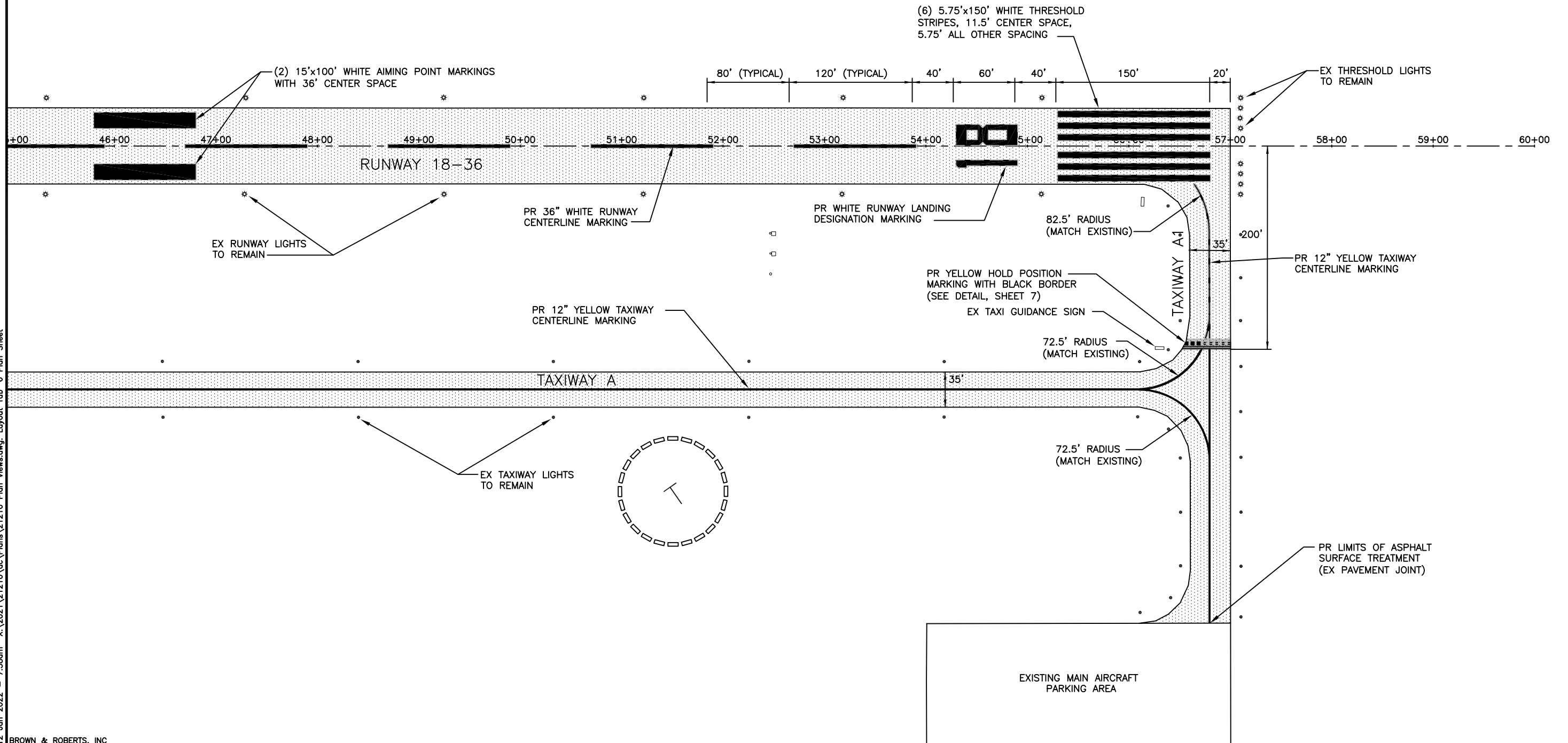
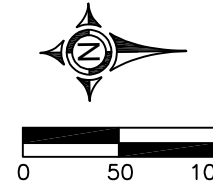
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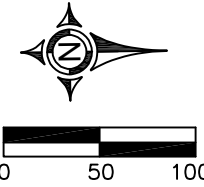
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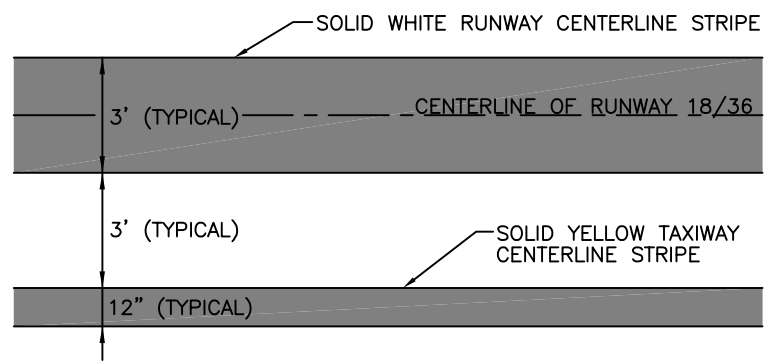
LEGEND

 PROPOSED ASPHALT SURFACE TREATMENT

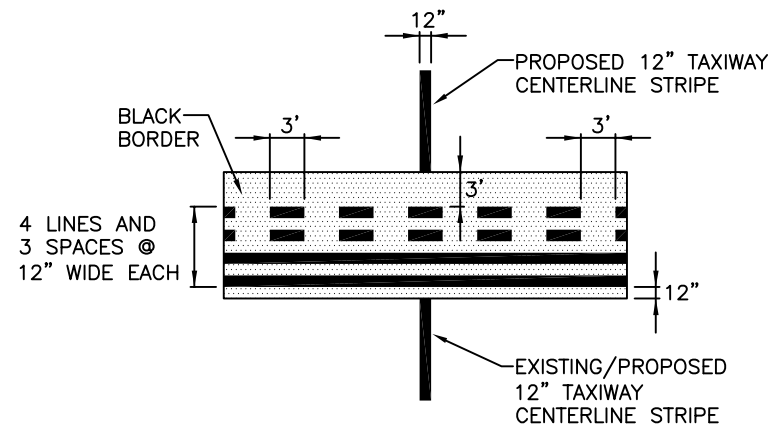




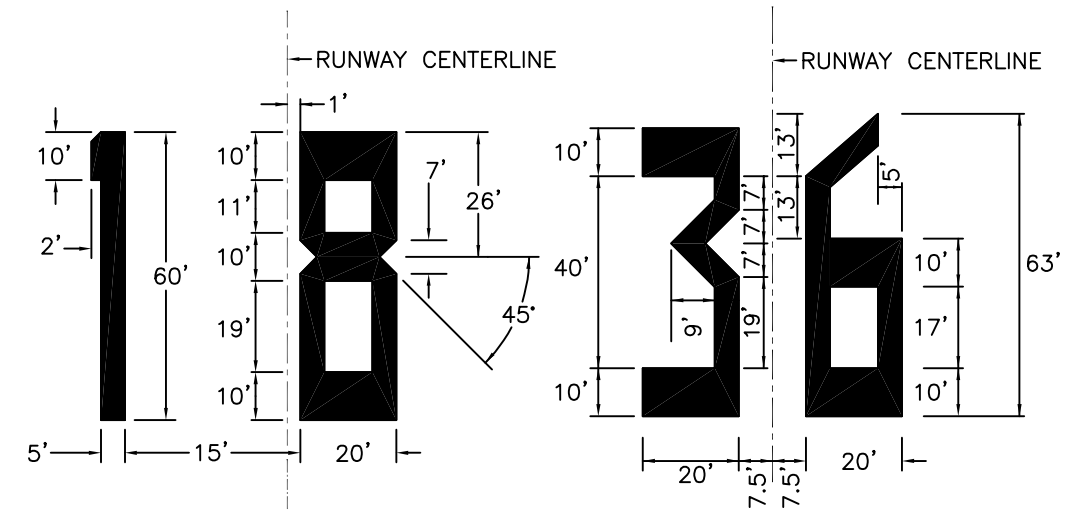
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TYPICAL DETAILS	
SHEET 7 OF 7	CR007



LEAD ON/LEAD OFF TAXIWAY CENTERLINE DETAIL
N.T.S.



RUNWAY HOLDING POSITION MARKING
N.T.S.



RUNWAY DESIGNATION NUMERALS
N.T.S.