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VILLAGE OF LANSING LANSING, ILLINOIS

CONSTRUCTION PLANS FOR LANSING MUNICIPAL AIRPORT

PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

ILLINOIS PROJECT: IGQ-4653
SBGP PROJECT: 3-17-SBGP-139/144

JANUARY 11, 2019



D. Kyle Peabody
1-18-19
EXPIRES 11-30-19

SUMMARY OF QUANTITIES				
BASE BID				
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	RECORD QUANTITY
AR620520	PAVEMENT MARKING - WATERBORNE	SF	46,460	
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	32,800	
AR620900	PAVEMENT MARKING REMOVAL	SF	17,800	

ADDITIVE ALTERNATE NO. 1				
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	RECORD QUANTITY
AS620520	PAVEMENT MARKING - WATERBORNE	SF	7,200	
AS620525	PAVEMENT MARKING - BLACK BORDER	SF	10,700	
AS620900	PAVEMENT MARKING REMOVAL	SF	500	

811 Know what's below. Call before you dig.

J.U.L.I.E. JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
www.illinois1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

CMT 180297-02-00
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

SUBMITTED BY *D. Kyle Peabody*
D. KYLE PEABODY, P.E.

DATE January 18 20 19

ILLINOIS PROJECT: IGQ-4653

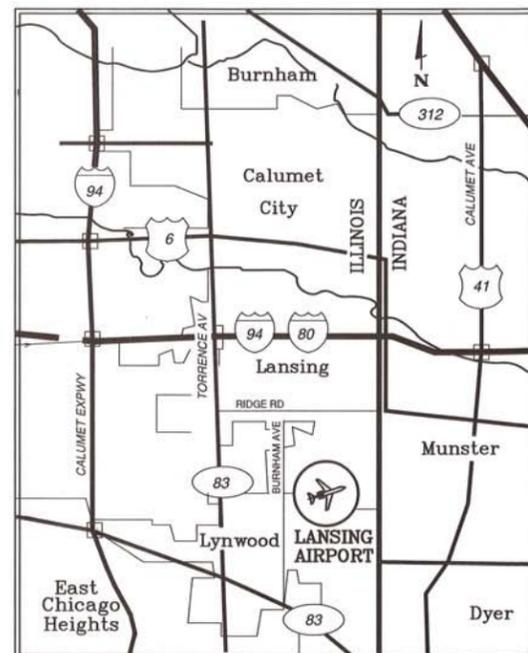
Lansing Municipal Airport

PHASE 1 +2: REMARK AIRFIELD PAVEMENT MARKING

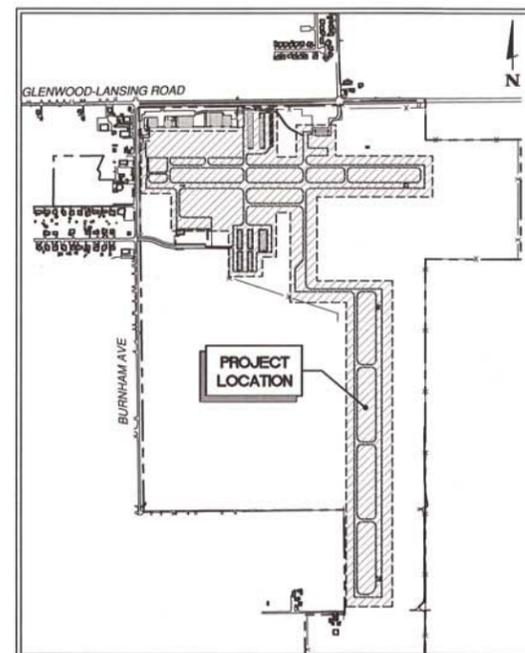
APPROVED BY *Patty Eidam* MAYOR
PATTY EIDAM

APPROVED BY *John DeLaurentis* AIRPORT MANAGER
JOHN DELAURENTIS

DATE January 18 20 19



LOCATION MAP



SITE PLAN

DESIGN INFORMATION

APPROACH CATEGORY B
DESIGN GROUP II

LANSING MUNICIPAL AIRPORT

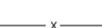
TOWNSHIP: 35 NORTH BLOOM TOWNSHIP
RANGE: 15 EAST (SECTION: 8 AND 17)
COOK COUNTY OPPOSITE GLENWOOD-LANSING ROAD

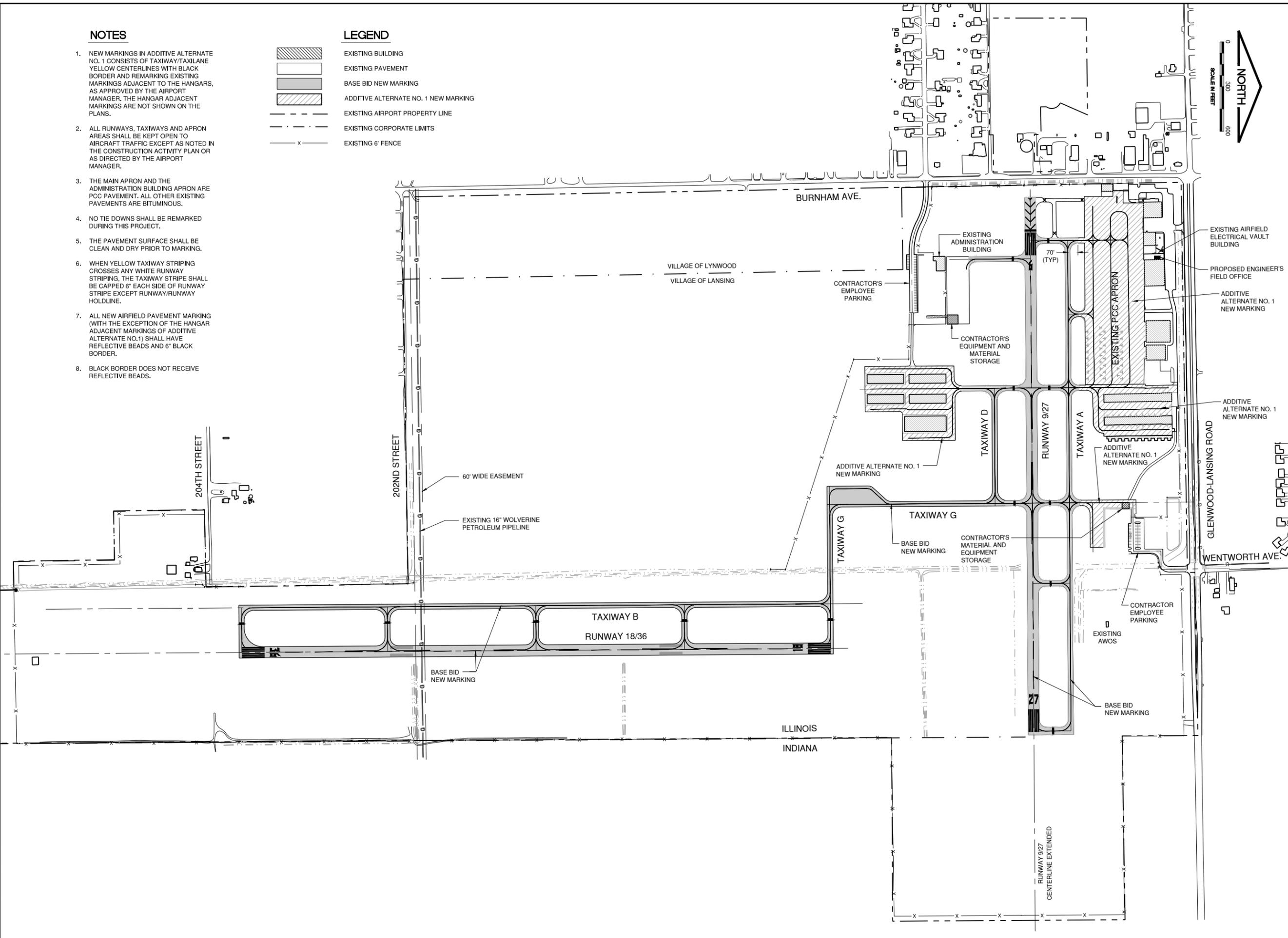
UNICOM RADIO FREQUENCY - 122.7

NOTES

1. NEW MARKINGS IN ADDITIVE ALTERNATE NO. 1 CONSISTS OF TAXIWAY/TAXILANE YELLOW CENTERLINES WITH BLACK BORDER AND REMARKING EXISTING MARKINGS ADJACENT TO THE HANGARS, AS APPROVED BY THE AIRPORT MANAGER. THE HANGAR ADJACENT MARKINGS ARE NOT SHOWN ON THE PLANS.
2. ALL RUNWAYS, TAXIWAYS AND APRON AREAS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN OR AS DIRECTED BY THE AIRPORT MANAGER.
3. THE MAIN APRON AND THE ADMINISTRATION BUILDING APRON ARE PCC PAVEMENT. ALL OTHER EXISTING PAVEMENTS ARE BITUMINOUS.
4. NO TIE DOWNS SHALL BE REMARKED DURING THIS PROJECT.
5. THE PAVEMENT SURFACE SHALL BE CLEAN AND DRY PRIOR TO MARKING.
6. WHEN YELLOW TAXIWAY STRIPING CROSSES ANY WHITE RUNWAY STRIPING, THE TAXIWAY STRIPE SHALL BE CAPPED 6" EACH SIDE OF RUNWAY STRIPE EXCEPT RUNWAY/RUNWAY HOLDLINE.
7. ALL NEW AIRFIELD PAVEMENT MARKING (WITH THE EXCEPTION OF THE HANGAR ADJACENT MARKINGS OF ADDITIVE ALTERNATE NO.1) SHALL HAVE REFLECTIVE BEADS AND 6" BLACK BORDER.
8. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.

LEGEND

-  EXISTING BUILDING
-  EXISTING PAVEMENT
-  BASE BID NEW MARKING
-  ADDITIVE ALTERNATE NO. 1 NEW MARKING
-  EXISTING AIRPORT PROPERTY LINE
-  EXISTING CORPORATE LIMITS
-  EXISTING 6' FENCE



IL CONTRACT: **LA041**
IL LETTING ITEM: **08A**
IL PROJECT: **IGQ-4653**
S.B.G. PROJECT: **3-17-SBGP-139/144**

REVISIONS		
NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

**LANSING MUNICIPAL AIRPORT
LANSING, ILLINOIS**

PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

SITE PLAN / PROJECT CONTROL

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Lansing
Municipal Airport

DESIGN BY:	ADM
DRAWN BY:	JRO
CHECKED BY:	DKP
APPROVED BY:	DKP
DATE:	1/11/2019
JOB No:	180297-02

FINAL

SHEET 2 OF 14 SHEETS

DATE: Friday, January 18, 2019 12:55:52 PM
FILE: K:\a131919\18291-02_Paving\Drawings\Construction Activity Notes.dwg
UPDATE BY: Adam Moulton
LAYOUT: Layout1

GENERAL NOTES

1. THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WHILE MAINTAINING AIRCRAFT ACCESS AT ALL TIMES. THE PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THIS SEQUENCE MAY BE MODIFIED HOWEVER, ALTERNATE STAGING PLANS MUST MAINTAIN AIRPORT OPERATIONS TO THE SATISFACTION OF THE AIRPORT MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS AND FEDERAL AVIATION ADMINISTRATION.
2. ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2G (LATEST EDITION) OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
3. CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE AREA WHEN CONSTRUCTION IS NOT IN PROGRESS.
4. THE AIRPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND AIRCRAFT SAFETY.
5. ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STORAGE AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE-CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER. THE COST OF MAINTAINING, REPAIRING OR CONSTRUCTING THESE PAVEMENTS AND AREAS SHALL BE INCIDENTAL TO THE CONTRACT. EXISTING AREAS OUTSIDE THE PROJECT LIMITS WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT MANAGER.
6. THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, APRONS AND RUNWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE ENGINEER.
7. WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS. LIGHT SHALL CONSIST OF MOVABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL BE AS APPROVED BY THE ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY. CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES.
8. THE CONTRACTOR SHALL PROVIDE PORTABLE FLOOD LIGHTING FOR NIGHTTIME CONSTRUCTION. SUFFICIENT UNITS SHALL BE PROVIDED SO THAT WORK AREAS ARE ILLUMINATED TO A LEVEL OF FIVE HORIZONTAL FOOT CANDLES. THE LIGHTING LEVELS SHALL BE CALCULATED AND MEASURED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE ILLUMINATION ENGINEERING SOCIETY. LIGHTS SHALL BE POSITIONED SO AS NOT TO INTERFERE WITH AIRPORT OPERATIONS.
9. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. WHEN ACTIVE AIRFIELD PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED ON TO THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER. THIS SWEEPING SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
10. MATERIALS REMOVED FROM THE PROJECT WILL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
11. FOR WORK ON AIRPORT PROPERTY: PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNING, TAXIWAY AND RUNWAY CLOSED MARKERS, AIR OPERATIONS AREA (A.O.A.) LATHE AND RIBBON, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. BARRICADES AT 10-FOOT CENTERS WITH ONE ORANGE FLAG (24" x 24") BETWEEN EACH SET OF BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES SHALL BE WEIGHTED TO PREVENT BLOWING OVER. BARRICADES SHALL HAVE A FLASHING RED LIGHT AND CONFORM TO IDOT STANDARD 702001, TYPE II. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE A.O.A. BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL. SIGNS SHALL BE PLACED AT EACH TAXIWAY/RUNWAY CLOSURE LOCATION AND SHALL BE ATTACHED TO THE BARRICADES. EACH BARRICADE LOCATION SHALL CONSIST OF ONE "DO NOT ENTER" SIGN AND ONE "AIRCRAFT MOVEMENT AREA" SIGN. SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
12. THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION SO THAT THE APPROPRIATE NOTAMS MAY BE ISSUED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES CLOSED DURING NON WORKING HOURS. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL ONLY". THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE UPON LEAVING THE SITE. THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGES TO THE ACCESS ROAD, ACCESS GATE OR FENCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER. ALL COST RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS AND HAVE BEACON LIGHTS ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL, THIS SHEET.
15. IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE ENGINEER IMMEDIATELY.
16. DURING ADVERSE WEATHER, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK.
17. THE TALLEST PIECE OF CONSTRUCTION EQUIPMENT IS ANTICIPATED TO BE A TRUCK WHICH HAS A MAXIMUM HEIGHT OF 15 FEET.
18. IF RUNWAY NUMERALS ARE PRESENT DURING CONSTRUCTION THEN CONTRACTOR SHALL PLACE CLOSED RUNWAY MARKER OVER NUMERALS AS DETAILED, OTHERWISE PLACE RUNWAY CLOSED MARKER IN TURF AT ENDS OF RUNWAY AS DETAILED.
19. LANSING MUNICIPAL AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. COORDINATION OF WORK WITH THE AIRPORT IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.
20. APPROXIMATE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE ARE SHOWN ON THE GENERAL PROJECT LAYOUT AND THE PHASING PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE ROADS USED AS HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE CONTRACTOR AND THE ENGINEER. FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.
21. MOBILIZATION/EQUIPMENT STORAGE AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON THE PLANS. THIS AREA SHALL BE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT. THE RESTORATION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
22. LOCATION OF KNOWN EXISTING AIRPORT UNDERGROUND CABLES ARE SHOWN ON THE PLANS AND MUST BE VERIFIED BY THE CONTRACTOR. REPAIR OF DAMAGED CABLE MUST BE STARTED IMMEDIATELY AND CONTINUED UNTIL COMPLETED. ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, OR AS DIRECTED BY THE OWNER OF THE CABLE, AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE FROM POINT TO POINT IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF A FAA REPRESENTATIVE. THE OWNER MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS.

23. COORDINATION MEETINGS - THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS AND SCHEDULING, ETC. WITH THE ENGINEER, AIRPORT OPERATIONS, FAA, AND OTHER APPROPRIATE OFFICIALS. MINUTES FROM THE WEEKLY MEETINGS SHALL BE PREPARED BY THE CONTRACTOR, FURNISHED TO ALL ATTENDEES PRIOR TO THE SUBSEQUENT MEETING, AND KEPT ON FILE AT THE FIELD OFFICE. THE COORDINATION MEETING COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
24. THE CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE PERSONNEL, INCLUDING THE PROJECT SUPERINTENDENT, WHO MAY BE CONTACTED IN AN EMERGENCY. PERSONNEL SHALL BE ON CALL 24 HOURS PER DAY FOR MAINTAINING AIRPORT HAZARD LIGHTING AND BARRICADES.
25. DRAINAGE MODIFICATIONS SHALL BE SEQUENCED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AT NO ADDITIONAL COST TO THE CONTRACT. EXISTING LANSING DRAINAGE FLOWS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
26. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 65.5' FROM ACTIVE TAXIWAYS, 57.5' FROM ACTIVE TAXILANES, 200' FROM ACTIVE RUNWAY 18/36 AND 75' FROM ACTIVE RUNWAY 9/27 UNLESS OTHERWISE APPROVED BY THE AIRPORT MANAGER.
27. CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A MANNER AS NOT TO VIOLATE FEDERAL AVIATION ADMINISTRATION PART 77 SURFACES OR RUNWAY AND TAXIWAY SAFETY AREAS.
28. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER ELECTRICAL CABLES SHALL REMAIN IN SERVICE AT ALL TIMES. ALL EXISTING LIGHTING AND VAULT EQUIPMENT SHALL REMAIN IN SERVICE UNTIL PROPOSED IMPROVEMENTS ARE INSTALLED AND OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED AT HIS EXPENSE.
29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED. CONTRACTOR IS REFERRED TO SECTION 50-17 OF THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR THE DESIGN ENGINEER ASSUME ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE MATERIAL OF EXISTING UNDERGROUND UTILITIES AS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE RESIDENT ENGINEER AND THE AIRPORT MANAGER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER.
30. ALL AIRFIELD LIGHTING AND LIGHTING GUIDANCE SYSTEMS (NAVAIDS) LOCATED WITHIN AND IMMEDIATELY ADJACENT TO THE CONTRACTOR'S WORK ZONE SHALL BE CHECKED FOR OPERATIONAL CONDITION PRIOR TO THE DEPARTURE FROM THE AIRPORT WITH THE AIRPORT MANAGER AND/OR AIRPORT MAINTENANCE. ANY DEFICIENCIES IN THESE SYSTEMS DUE TO THE ACTS OF CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS SHALL BE REPAIRED IMMEDIATELY.

CONTRACTOR CROSSING RUNWAY AND TAXIWAY AIR OPERATIONS AREA (A.O.A.)

ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO AND FROM THE WORK ZONE, A CROSSING GUARD OR ESCORT IN RADIO CONTACT WITH THE AIR FIELD SHALL BE FURNISHED BY THE CONTRACTOR FOR MOVEMENTS OF VEHICLES OR EQUIPMENT TO AND FROM THE WORK ZONE. THE RADIO OPERATOR SHALL BE FAMILIAR WITH AIRPORT GROUND CONTROL PROCEDURES AND DEMONSTRATE KNOWLEDGE OF SAME TO THE AIRPORT. THE AIRPORT RESERVES THE RIGHT TO APPROVE THE CROSSING GUARDS. THE CONTRACTOR SHALL PROVIDE THEIR OWN RADIOS. THIS COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF MUNICIPAL FINES (\$500 PER OCCURENCE) DUE TO AIRFIELD INCURSIONS BY HIS EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, CONSULTANTS AND/OR AGENTS.

ANY PAVEMENT DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY HIM TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER AT NO ADDITIONAL COST TO THE OWNER. PAVEMENT SHALL BE CONTINUALLY SWEEPED TO PROVIDE DEBRIS FREE SURFACE DURING ALL HAUL ROAD OPERATIONS. THIS COST SHALL NOT BE PAID SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WORK WITHIN THE A.O.A. SHALL BE EXPEDITED. ANY DROP OFF SHALL BE ADEQUATELY LIGHTED, SIGNED AND BARRICADED. NO MATERIAL SHALL BE STOCKPILED WITHIN THE A.O.A. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TWO (2) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.

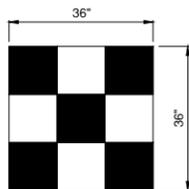
LIMITATIONS ON CONSTRUCTION WITHIN RUNWAY SAFETY AREA (RSA) AND TAXIWAY/TAXILANE OBJECT FREE AREA (TOFA)

RUNWAYS:

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. WORK SHALL BE EXPEDITED IN THESE AREAS AND AT THE END OF EACH WORKING DAY THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE RUNWAY TO BE REOPENED. AT LEAST ONE OF THE RUNWAYS SHALL REMAIN IN OPERATION AT ALL TIMES. IF NECESSARY STEEL PLATES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCAVATION WITHIN THE RSA IF DURING RUNWAY CLOSURE AN EMERGENCY IS DECLARED, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLES, MEN AND EQUIPMENT. REFERENCE TABLE ON PREVIOUS SHEET FOR SAFETY AREA WIDTHS.

TAXIWAYS / TAXILANES:

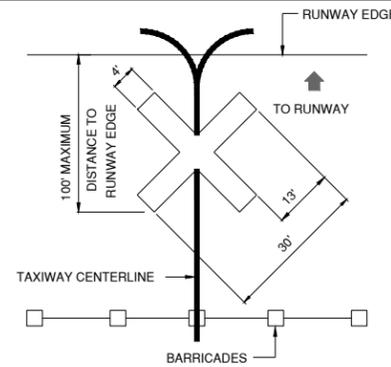
ANY WORK WITHIN TAXIWAY / TAXILANE OBJECT FREE AREA (TOFA) WILL REQUIRE A TAXIWAY / TAXILANE CLOSURE. WORK WITHIN THE TOFA SHALL BE EXPEDITED. ANY DROP OFF SHALL BE ADEQUATELY LIGHTED, SIGNED AND BARRICADED. NO MATERIAL SHALL BE STOCKPILED WITHIN THE TOFA. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER FIVE (5) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. REFERENCE TABLE ON PREVIOUS SHEET FOR OBJECT FREE AREA WIDTHS. NO DROP-OFFS OR OPEN EXCAVATIONS WILL BE ALLOWED WITHIN THE TAXIWAY / TAXILANE SAFETY AREAS OF OPEN TAXIWAYS / TAXILANES.



CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL ORANGE AND WHITE CHECKERED FLAG

NOT TO SCALE

CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE SPECIAL PROVISIONS SECTION 30-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS.

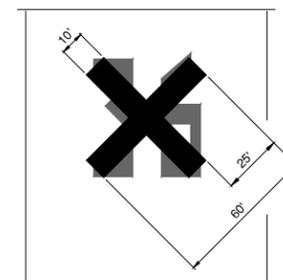


CLOSED TAXIWAY MARKER DETAIL

NOT TO SCALE

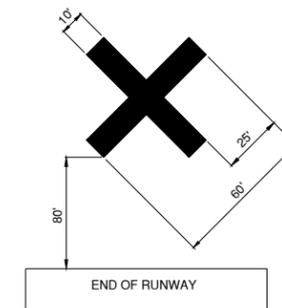
CLOSED TAXIWAY MARKER DETAIL NOTES

1. CLOSED TAXIWAY MARKERS SHALL BE PAINTED WITH TEMPORARY MARKING CAPABLE OF BEING REMOVED WITH LOW PRESSURE WATER BLASTING OR OTHER MATERIAL THAT DOES NOT VIOLATE THE OBJECT FREE AREA CRITERIA AND RUNWAY SAFETY AREA CRITERIA PER ADVISORY CIRCULAR 150/5300-13A (LATEST EDITION) AND ARE APPROVED BY THE AIRPORT.
2. CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
3. COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
4. PLACE MARKERS OVER TAXIWAY CENTERLINE.
5. MARKERS SHALL BE ADEQUATELY SECURED TO PREVENT MOVEMENT BY PROPELLER WASH, JET BLAST OR OTHER WIND CURRENTS.
6. MARKERS ARE ONLY REQUIRED FOR TAXIWAYS CLOSED THREE (3) CONSECUTIVE DAYS OR MORE.



ON PAVEMENT CLOSED RUNWAY MARKER DETAIL

NOT TO SCALE



OFF PAVEMENT CLOSED RUNWAY MARKER DETAIL

NOT TO SCALE

CLOSED RUNWAY MARKER DETAIL NOTES

1. CLOSED RUNWAY MARKERS SHALL BE YELLOW.
2. MARKERS SHALL BE MATERIAL APPROVED BY THE ENGINEER.
3. CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
4. MARKERS ON PAVEMENT SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AS SHOWN.
5. COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
6. DURING VARIOUS PHASES OF WORK, IT WILL BE NECESSARY TO CLOSE RUNWAYS TO AIR TRAFFIC ON A TEMPORARY BASIS AS COORDINATED WITH THE AIRPORT. THE CONTRACTOR SHALL MARK THE RUNWAYS TO BE CLOSED BY PLACING A YELLOW CROSS AT THE LOCATION AND DIMENSIONS DETAILED ON THIS SHEET. THE CROSSES ARE SHOWN ON THE RESPECTIVE RUNWAYS ACCORDING TO THE VARIOUS PHASES OF WORK AS DELINEATED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION.

DESIGN AIRCRAFT APPROACH CATAGORY: B
DESIGN AIRPORT GROUP: II
RUNWAY 18/36 SAFETY AREA TOTAL WIDTH = 150'
RUNWAY 9/27 SAFETY AREA TOTAL WIDTH = 150'
TAXIWAY CENTERLINE TO OBJECT SEPARATION = 65.5'
TAXILANE CENTERLINE TO OBJECT SEPARATION = 57.5'

MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: 15'

POINT "A"
NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 9/27
LATITUDE: 41° 32' 21.80"
LONGITUDE: - 87° 31' 52.28"
EXISTING ELEVATION: 614.0

POINT "B"
NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 18/36
LATITUDE: 41° 32' 23.18"
LONGITUDE: - 87° 31' 39.55"
EXISTING ELEVATION: 616.5

POINT "C"
NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 9/27
LATITUDE: 41° 32' 21.81"
LONGITUDE: - 87° 32' 02.46"
EXISTING ELEVATION: 614.0

POINT "D"
NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 9/27
LATITUDE: 41° 32' 26.77"
LONGITUDE: - 87° 32' 15.45"
EXISTING ELEVATION: 614.4

POINT "E"
NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 9/27
LATITUDE: 41° 32' 26.75"
LONGITUDE: - 87° 32' 02.44"
EXISTING ELEVATION: 614.6

IL CONTRACT: LA041
IL LETTING ITEM: 08A
IL PROJECT: IGQ-4653
S.B.G. PROJECT: 3-17-SBGP-139/144

REVISIONS

NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2"
AT FULL SCALE (34X22).

LANSING MUNICIPAL AIRPORT
LANSING, ILLINOIS
PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

CONSTRUCTION ACTIVITY PLAN NOTES
AND DETAILS

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DESIGN BY: ARM
DRAWN BY: JRO
CHECKED BY: DKP
APPROVED BY: DKP
DATE: 1/11/2019
JOB No: 180297-02

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SHEET 4 OF 14 SHEETS

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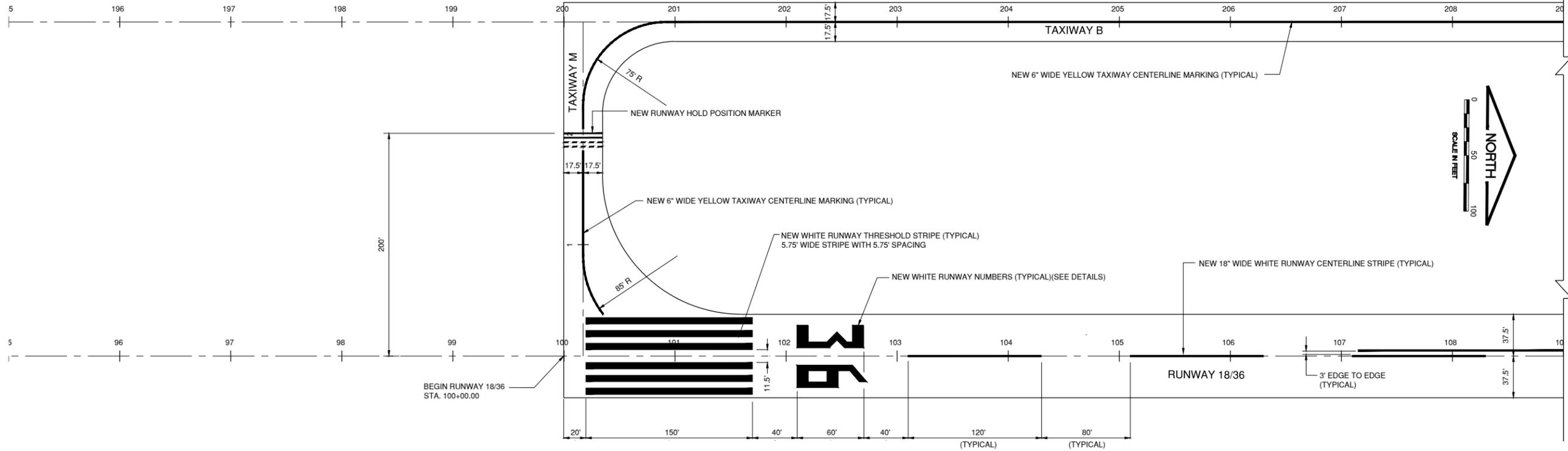
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LAYOUT: Layout

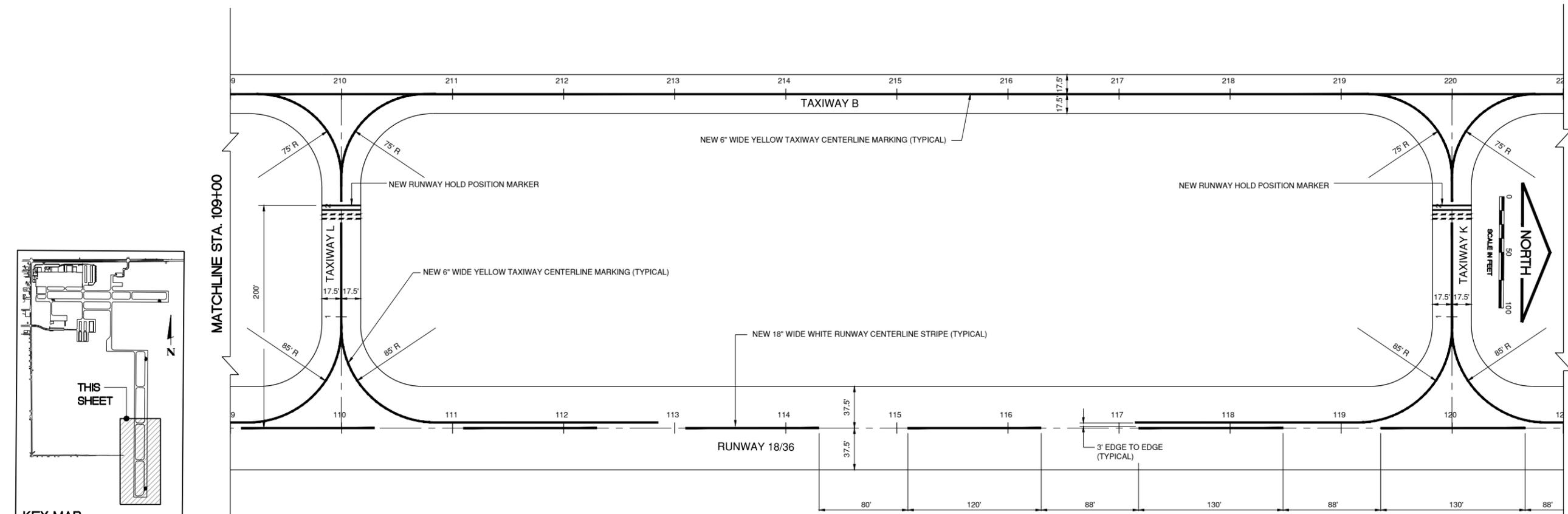
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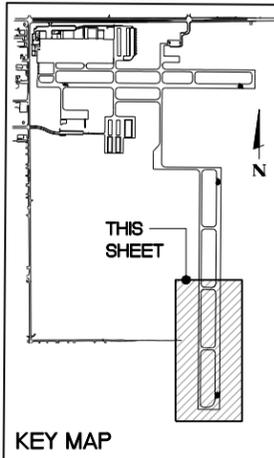
FOR PAVEMENT MARKING NOTES, SEE "SITE PLAN/PROJECT CONTROL"



BASE BID

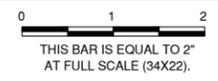


BASE BID



IL CONTRACT: **LA041**
IL LETTING ITEM: **08A**
IL PROJECT: **IGQ-4653**
S.B.G. PROJECT: **3-17-SBGP-139/144**

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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING PLAN 1

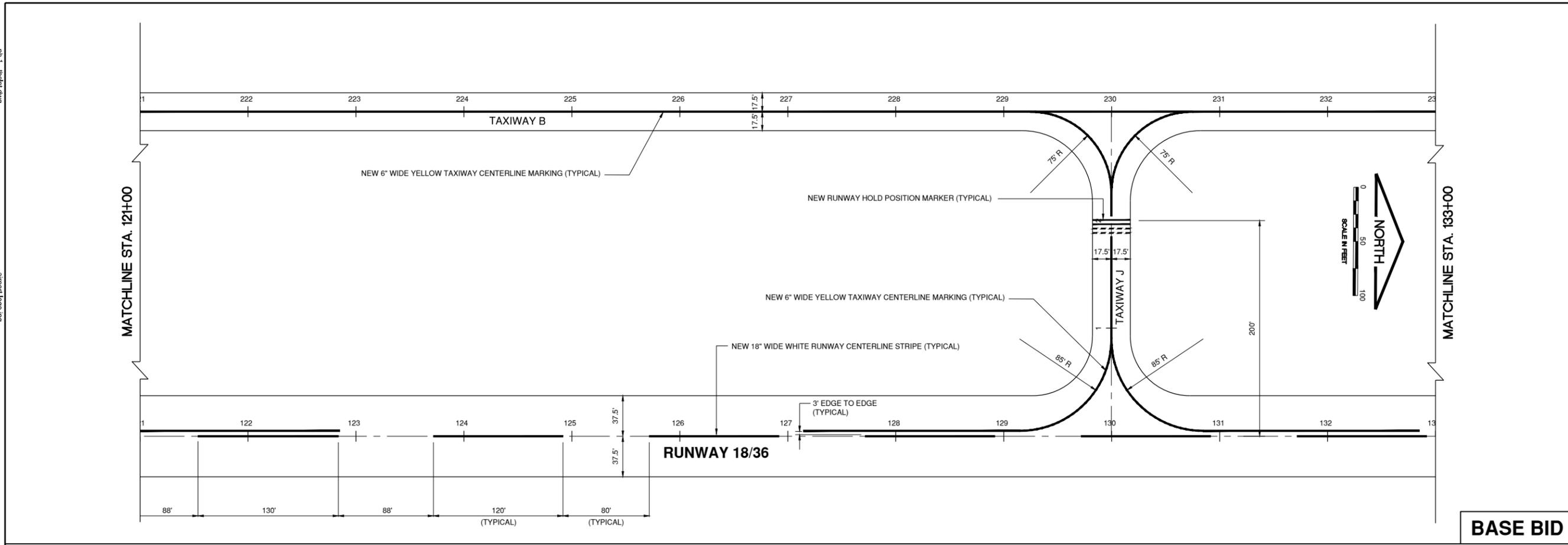
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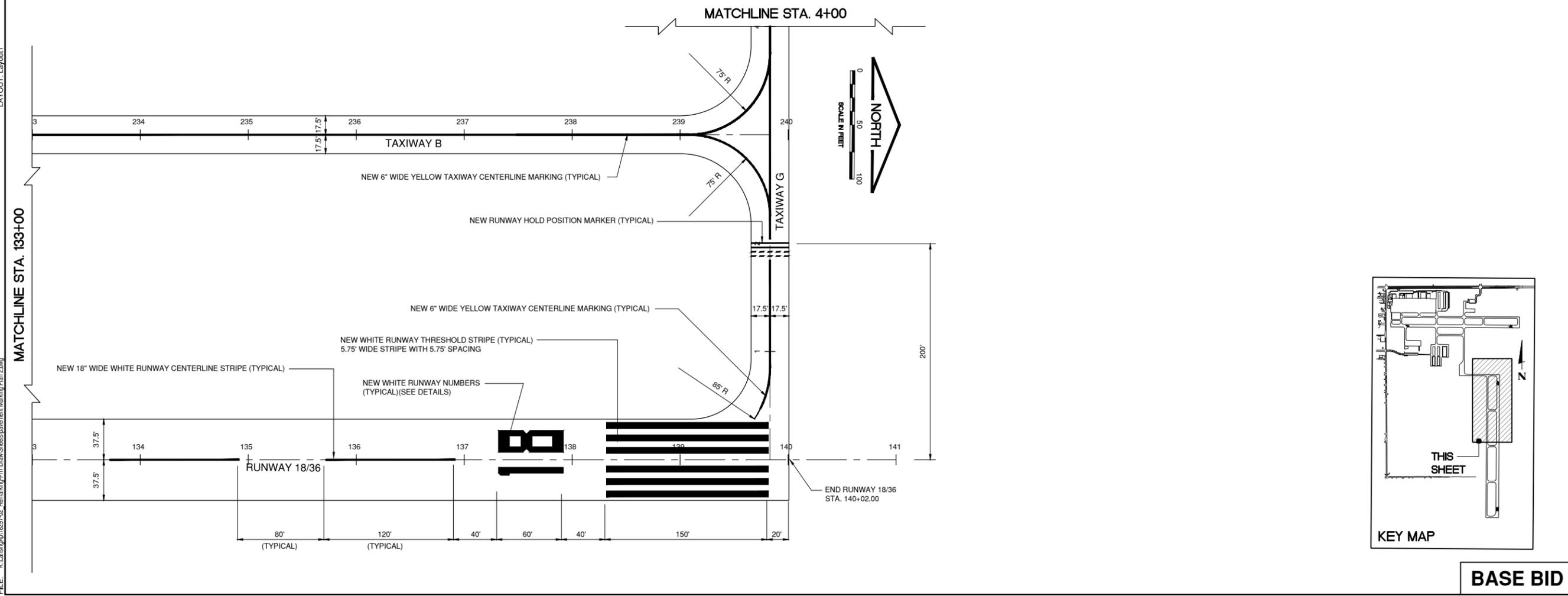
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Municipal Airport

DESIGN BY:	ADM
DRAWN BY:	JRO
CHECKED BY:	DKP
APPROVED BY:	DKP
DATE:	1/11/2019
JOB No:	180297-02

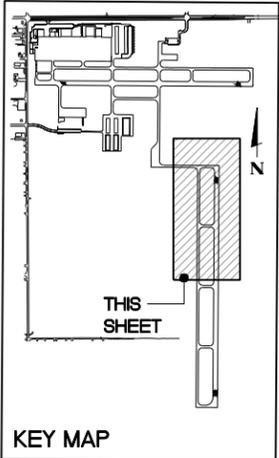
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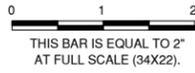


BASE BID



IL CONTRACT: **LA041**
IL LETTING ITEM: **08A**
IL PROJECT: **IGQ-4653**
S.B.G. PROJECT: **3-17-SBGP-139/144**

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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING PLAN 2

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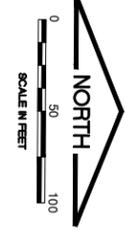
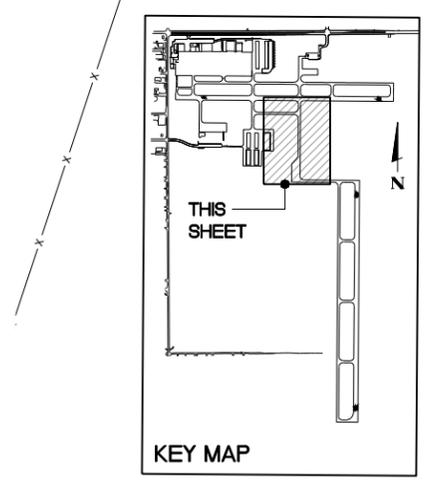
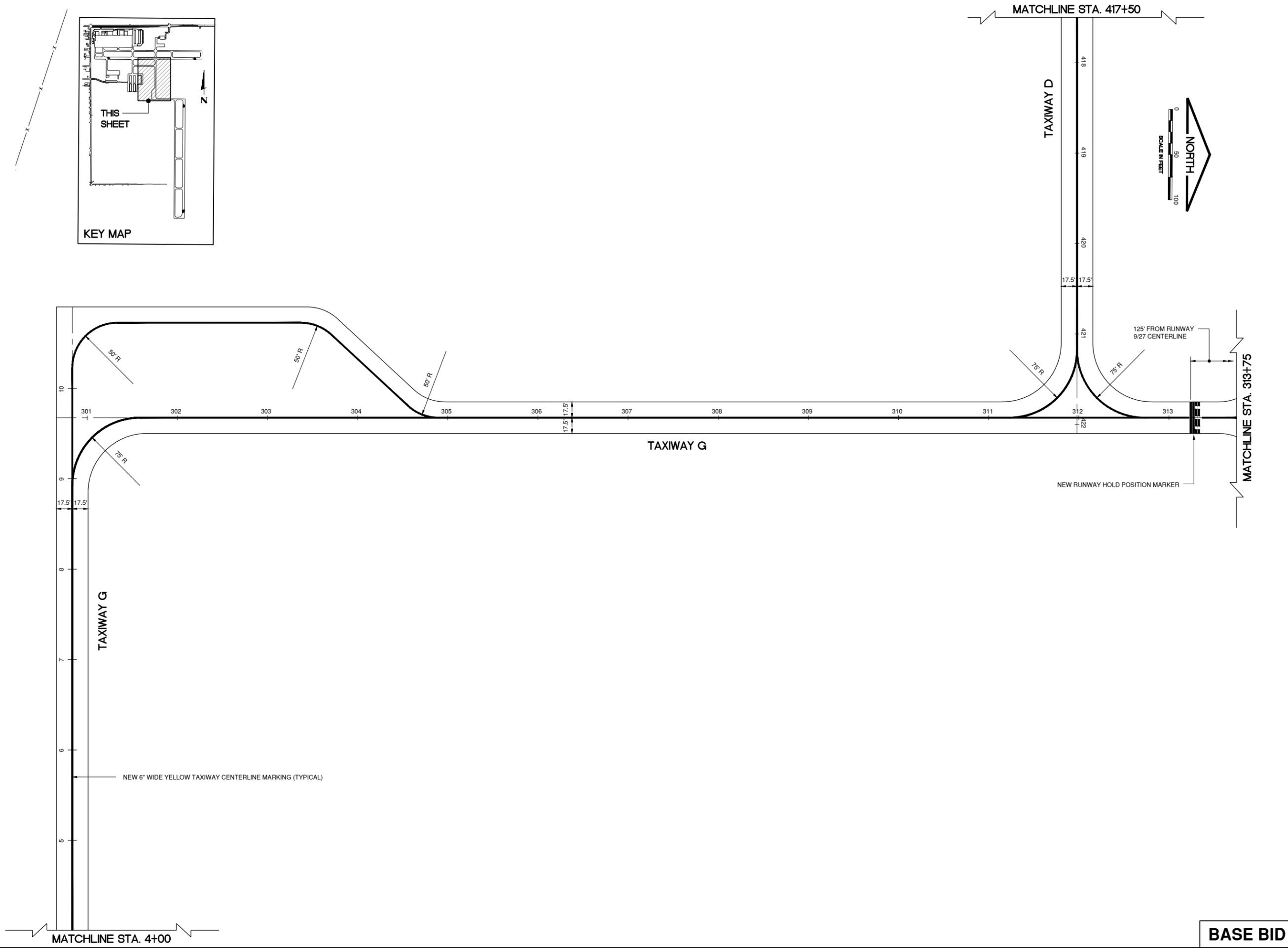
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DRAWN BY:	JRO
CHECKED BY:	ARM
APPROVED BY:	DKP
DATE:	1/11/2019
JOB No:	180297-02

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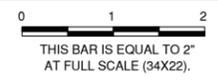
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 LAYOUT: PM3
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IL CONTRACT: **LA041**
 IL LETTING ITEM: **08A**
 IL PROJECT: **IGQ-4653**
 S.B.G. PROJECT: **3-17-SBGP-139/144**

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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING PLAN 3

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CHECKED BY:	ARM
APPROVED BY:	DKP
DATE:	1/11/2019
JOB No:	180297-02

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SHEET 8 OF 14 SHEETS

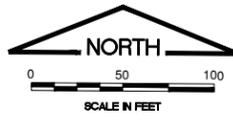
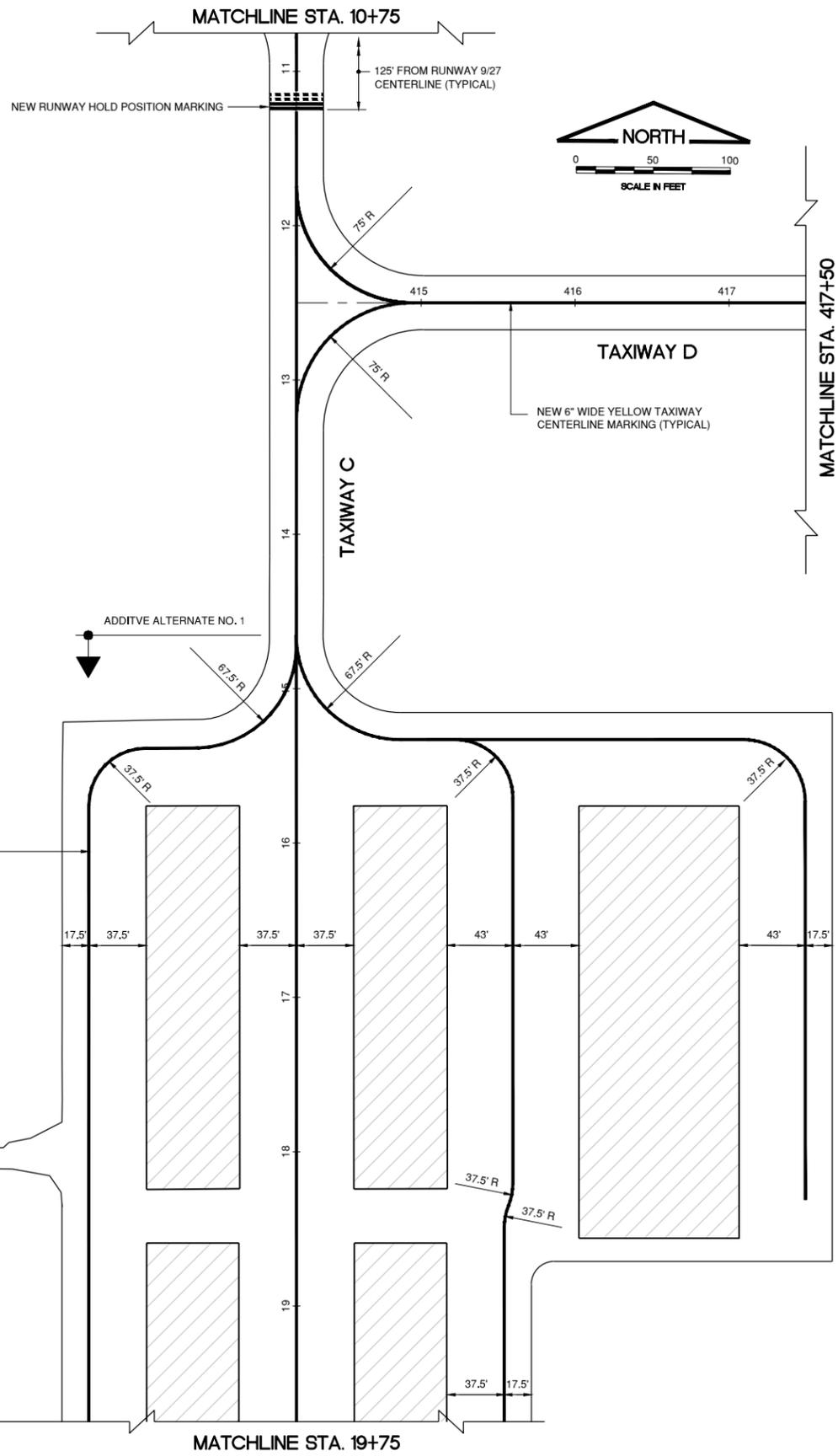
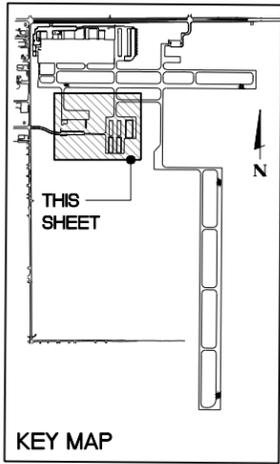
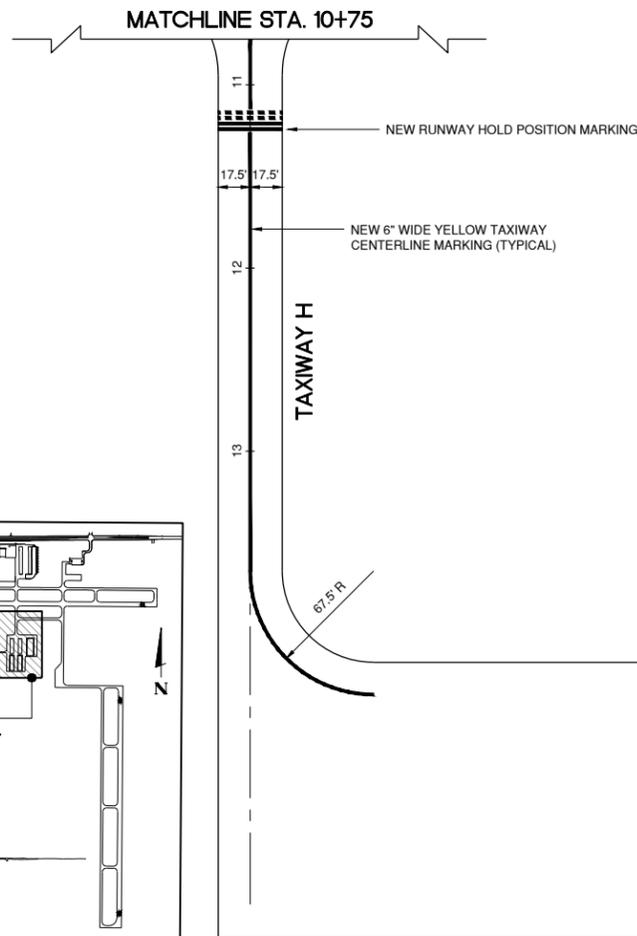
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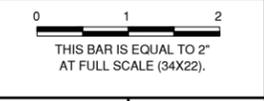
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IL CONTRACT: **LA041**
 IL LETTING ITEM: **08A**
 IL PROJECT: **IGQ-4653**
 S.B.G. PROJECT: **3-17-SBGP-139/144**

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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING PLAN 4

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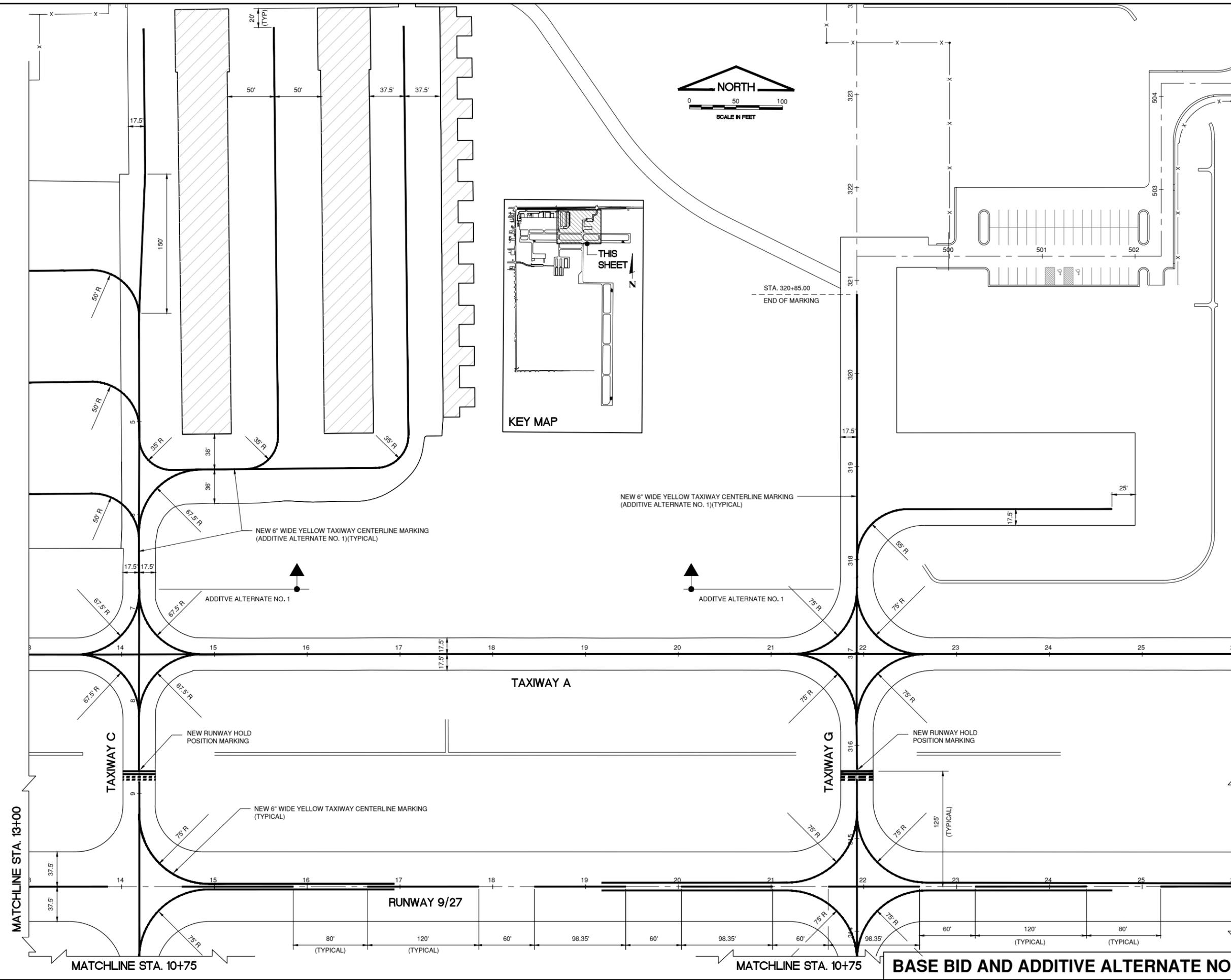
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JOB No:	180297-02

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SHEET 9 OF 14 SHEETS

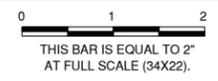
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 6mp\lupca - 1.dwg



IL CONTRACT: **LA041**
 IL LETTING ITEM: **08A**
 IL PROJECT: **IGQ-4653**
 S.B.G. PROJECT: **3-17-SBGP-139/144**

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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING PLAN 6

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JOB No:	180297-02

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SHEET 11 OF 14 SHEETS

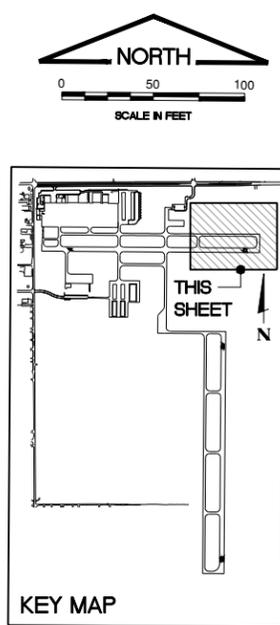
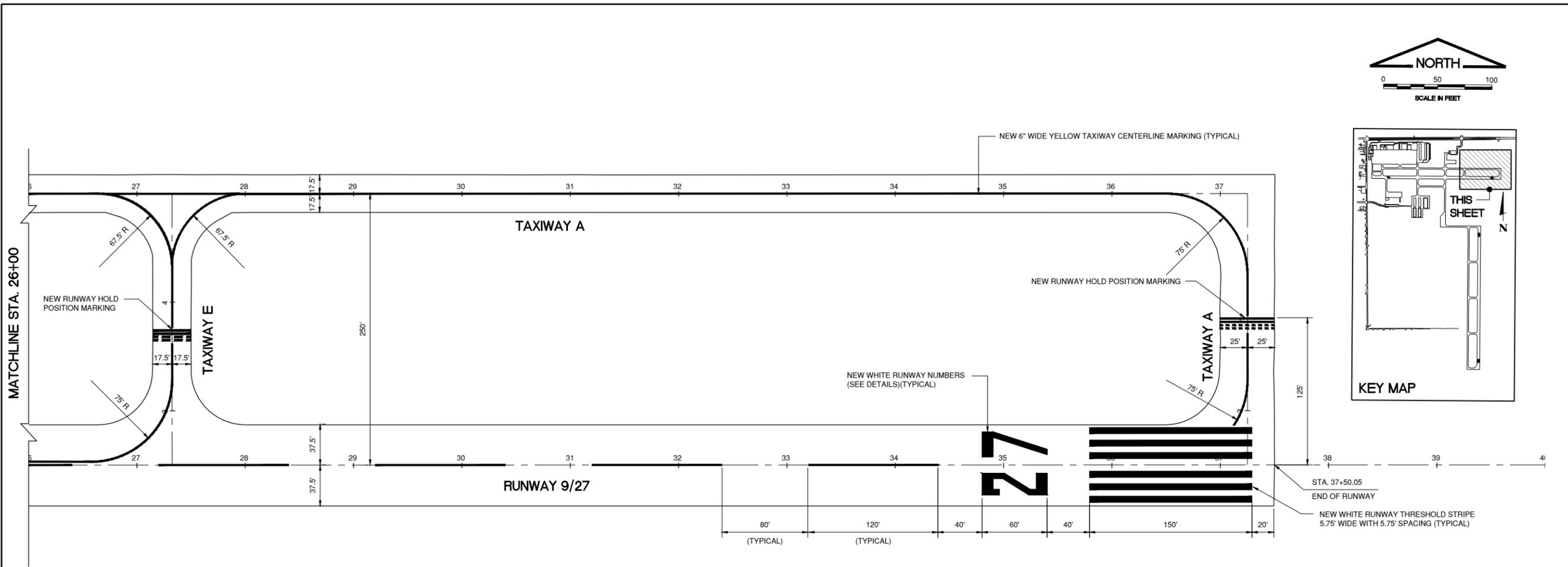
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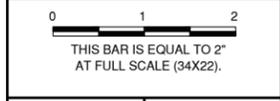
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IL CONTRACT: LA041
IL LETTING ITEM: 08A
IL PROJECT: IGQ-4653
S.B.G. PROJECT: 3-17-SBGP-139/144

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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING PLAN 7

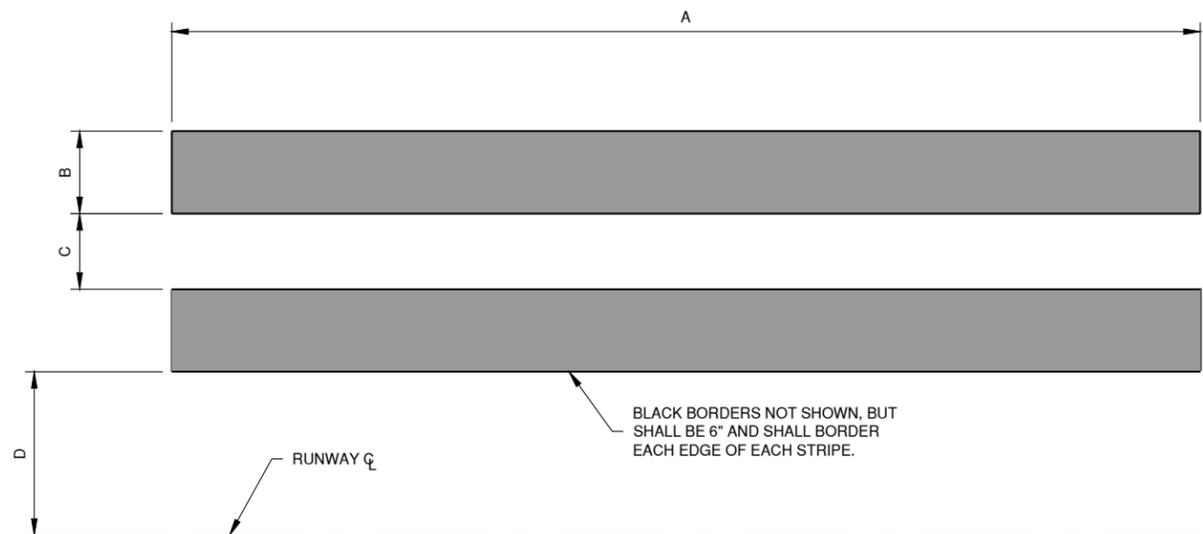
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DATE:	1/11/2019
JOB No:	180297-02

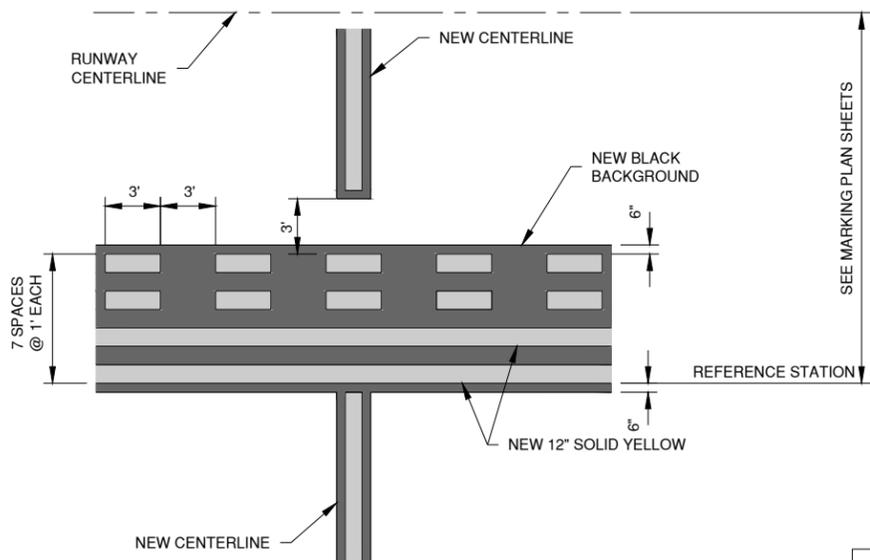
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MARKING (PER RUNWAY END)	DIMENSION *			
	A	B	C	D
THRESHOLD MARKER (6 STRIPE)	150'	5.75'	5.75'	5.75'

AIMING POINT AND THRESHOLD MARKING DETAIL

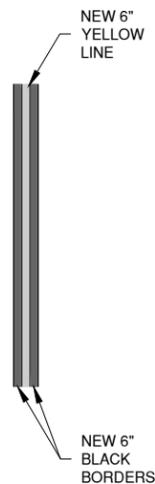
N.T.S.



RUNWAY HOLDING POSITION MARKING

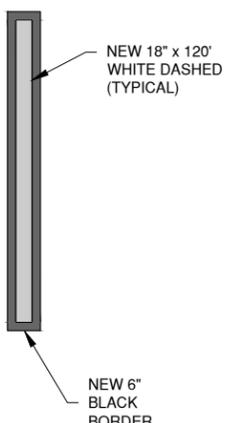
N.T.S.

- MARKING NOTE**
1. ALL NEW AIRFIELD PAVEMENT MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
 2. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.



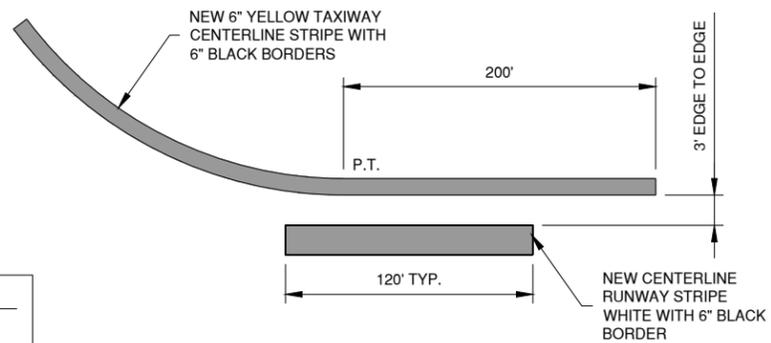
TAXIWAY CENTERLINE CONTINUOUS

N.T.S.



RUNWAY CENTERLINE DASHED

N.T.S.



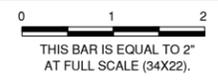
NEW TAXIWAY EXIT MARKING DETAIL

N.T.S.

IL CONTRACT: **LA041**
IL LETTING ITEM: **08A**
IL PROJECT: **IGQ-4653**
S.B.G. PROJECT: **3-17-SBGP-139/144**

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**LANSING MUNICIPAL AIRPORT
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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING DETAILS 1

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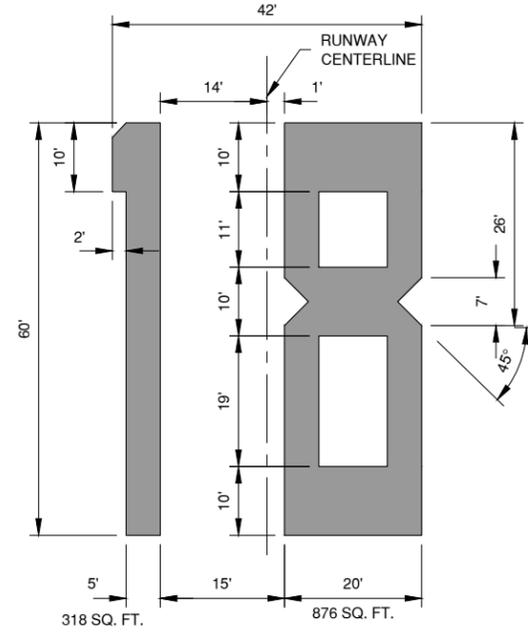
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DRAWN BY:	JRO
CHECKED BY:	DKP
APPROVED BY:	DKP
DATE:	1/11/2019
JOB No:	180297-02

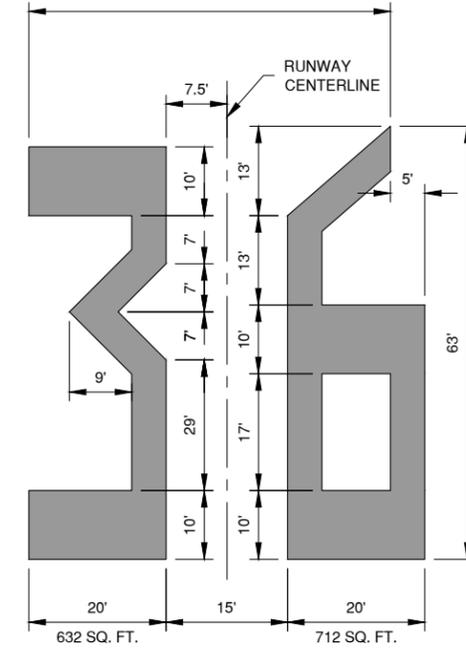
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MARKING NOTE

1. ALL NEW AIRFIELD PAVEMENT MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
2. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.

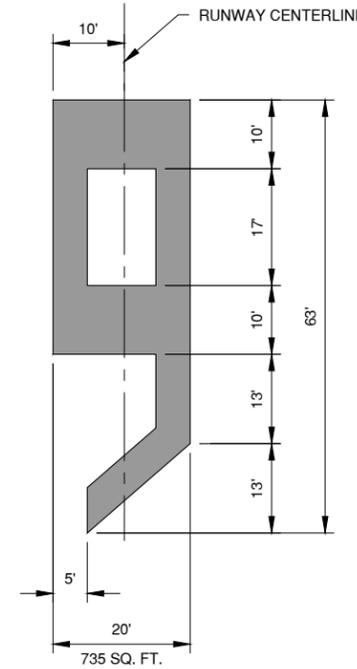


CENTER OF OUTER EDGES OF NUMERALS IS CENTERED ON THE PAVEMENT CENTERLINE. TYPICAL OF ALL DOUBLE RUNWAY DESIGNATIONS.

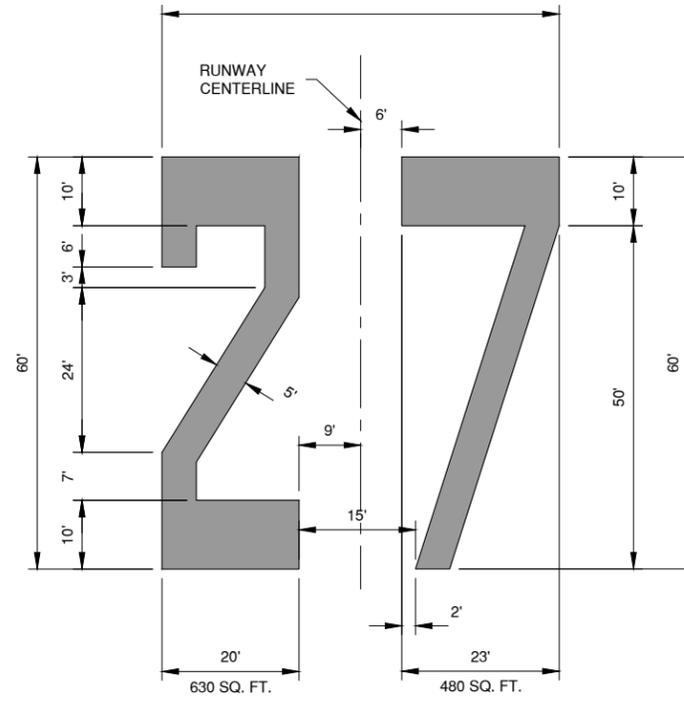


RUNWAY 18/36 LANDING DESIGNATORS

N.T.S.



CENTER OF OUTER EDGES OF NUMERALS IS CENTERED ON THE PAVEMENT CENTERLINE. TYPICAL OF ALL DOUBLE RUNWAY DESIGNATIONS.



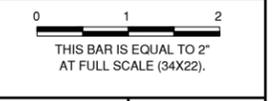
RUNWAY 9/27 LANDING DESIGNATORS

N.T.S.

IL CONTRACT: **LA041**
 IL LETTING ITEM: **08A**
 IL PROJECT: **IGQ-4653**
 S.B.G. PROJECT: **3-17-SBGP-139/144**

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PHASE 1 AND 2: REMARK AIRFIELD PAVEMENT MARKING

PAVEMENT MARKING DETAILS 2

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SHEET 14 OF 14 SHEETS