

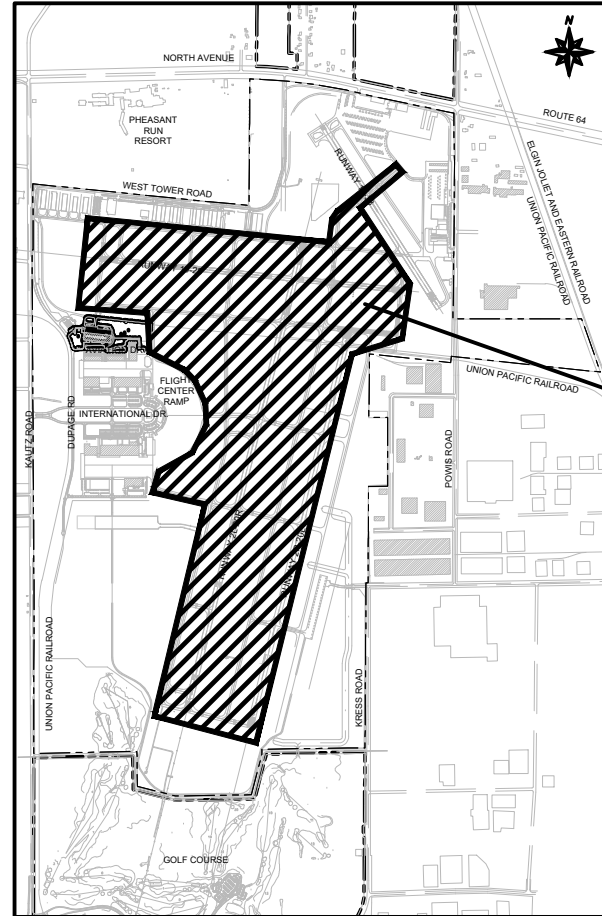
# DUPAGE AIRPORT AUTHORITY WEST CHICAGO, ILLINOIS

## ELEVATED FIXTURE GROUNDING UPDATES

ILLINOIS PROJECT: DPA-4802  
FEDERAL PROJECT: 3-17-SBGP-162  
LETTING DATE: APRIL 23, 2021  
ISSUE DATE: MARCH 12, 2021

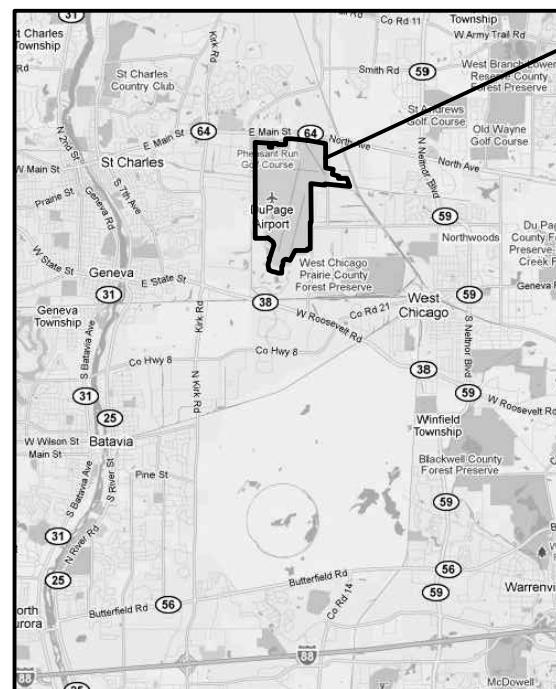
### DRAWING INDEX

DRAWING NO.	SHEET NO.	DESCRIPTION
G-100	1	COVER SHEET
G-101	2	SUMMARY OF QUANTITIES AND ABBREVIATIONS
C-101	3	GENERAL AND SECURITY NOTES
C-102	4	CONSTRUCTION SAFETY PLAN
C-103	5	CONTRACTOR STAGING AND ACCESS ROUTE
C-104	6	PHASING PLAN OVERVIEW
C-104A	7	PHASING PLAN PHASE A
C-104B	8	PHASING PLAN PHASE B
C-104C	9	PHASING PLAN PHASE C1 & C2
C-104D	10	PHASING PLAN PHASE D
C-104E	11	PHASING PLAN PHASE E
C-104F	12	PHASING PLAN PHASE F
C-104G	13	PHASING PLAN PHASE G1 & G2
C-104H	14	PHASING PLAN PHASE H
C-104I	15	PHASING PLAN PHASE J
C-104J	16	PHASING PLAN PHASE K
C-105	17	CIVIL DETAILS -1-
E-101	18	ELECTRICAL GENERAL NOTES AND VAULT PLAN
E-102	19	ELECTRICAL VAULT SINGLE LINE
E-103	20	AIRFIELD CIRCUIT LAYOUT
E-201	21	AIRFIELD ELECTRICAL LAYOUT PLAN -KEY PLAN-
E-202 TO E-210	22	AIRFIELD ELECTRICAL LAYOUT PLAN 1-9
E-301	31	ELECTRICAL DETAILS -1-
E-302	32	ELECTRICAL DETAILS -2-



SITE PLAN

PROJECT SITE



LOCATION MAP

PROJECT LOCATION



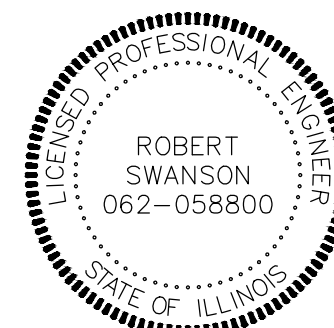
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BEFORE EXCAVATING  
1-800-892-0123**

*Mark Doles* 3/11/21  
SIGNED: Mark Doles DATE  
EXECUTIVE DIRECTOR  
DUPAGE AIRPORT AUTHORITY



SEAL APPLIES TO SHEETS G-100 THROUGH C-105

*Todd Merrihew* 3/10/2021  
SIGNED: Todd Merrihew DATE  
CH2M  
LICENSE: 062-053655  
EXPIRES: 11/30/2021



SEAL APPLIES TO SHEETS E-101 THROUGH E-302

*Robert Swanson* 3/10/2021  
SIGNED: Robert Swanson DATE  
CH2M  
LICENSE: 062-058800  
EXPIRES: 11/30/2021

**SUMMARY OF QUANTITIES**

ITEM NO.	PAY ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	AR125801	5/8" X 10' COPPER COATED GROUND ROD	EA	830
2	AR150520	MOBILIZATION	LS	1
3	AR150530	TRAFFIC MAINTENANCE	LS	1
4	AR150536	LIGHTED RUNWAY CLOSURE MARKER	EA	2
5	AR801763	METALLIC FRANGIBLE COUPLING	EA	919
6	AR801764	LIGHT BASE REPLACEMENT	EA	5

**ABBREVIATIONS**

A	AMPERE
AC	ADVISORY CIRCULAR
AL	ALLOWANCE
ALCMS	AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM
ALD	AIRFIELD LIGHTING DUCT
ATCT	AIR TRAFFIC CONTROL TOWER
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
CCR	CONSTANT CURRENT REGULATOR
CFR	CODE OF FEDERAL REGULATIONS
CKT	CIRCUIT
CL	CENTERLINE
CM	CONSTRUCTION MANAGER
COMM	COMMUNICATIONS
CU	COPPER
DAA	DUPAGE AIRPORT AUTHORITY
DPA	DUPAGE AIRPORT
EA	EACH
EMH	ELECTRIC MANHOLE
EX	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FAR	FEDERAL AVIATION REGULATIONS
FOD	FOREIGN OBJECT DEBRIS
FT	FEET
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDPE	HIGH DENSITY POLYETHYLENE
HV	HIGH VOLTAGE
KV	KILOVOLT
KW	KILOWATT
LS	LUMP SUM
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION
PAPI	PRECISION APPROACH PATH INDICATOR
PVC	POLYVINYL CHLORIDE
RSA	RUNWAY SAFETY AREA
RW	RUNWAY
SF	SQUARE FEET
SPCD	SAFETY PLAN COMPLIANCE DOCUMENT
TPE	THERMOPLASTIC ELASTOMER
T/W	TAXIWAY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
W	WATT
XFMR	TRANSFORMER



NO.	DATE	REVISION	CHK	MPK	DR	RAS	DAD	APVD	TMM

8735 W. HIGGINS ROAD  
SUITE 400  
CHICAGO, IL 60631

ELEVATED FIXTURE GROUNDING UPDATES  
DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

**SUMMARY OF QUANTITIES AND ABBREVIATIONS**

N.T.S.	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	- 03/10/2021
PROJ	- DPA-4802
DWG	G-101
SHEET 02 of 32	

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## GENERAL NOTES



1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS AND ANY RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS REFERENCED THEREIN. THE PROJECT IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE DUPAGE AIRPORT AUTHORITY (DAA), THE FEDERAL AVIATION ADMINISTRATION (FAA), THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), THE TRANSPORTATION SECURITY ADMINISTRATION (TSA), AND OTHER GOVERNING AGENCIES.
2. THE PROJECT IS TO BE COMPLETED IN A TIMELY MANNER IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED PROJECT SCHEDULE. THE SCHEDULE SHALL BE PROVIDED FOR COMPLETION OF THE WORK AS SHOWN ON THE PLANS AND DESCRIBED IN THE CONTRACT SPECIFICATIONS. THE CONTRACTOR SHALL KEEP AIRPORT OPERATIONS INFORMED OF UPDATES TO THE PROJECT SCHEDULE AT ALL TIMES.
3. THE CONTRACTOR SHALL COMPLETE THE ENTIRE PROJECT WITHIN THE TIME STATED IN THESE CONTRACT DOCUMENTS.
4. THE AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. COORDINATION OF WORK WITH THE DAA, FAA, IDOT AND LOCAL ATCT REPRESENTATIVES IS MANDATORY TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.
5. CONSTRUCTION AND MAINTENANCE OPERATIONS BY OTHERS MAY OCCUR CONCURRENTLY AND AT TIMES IN THE VICINITY OF CONSTRUCTION ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS AND COOPERATE WITH MAINTENANCE CREWS AND OTHER CONTRACTORS WORKING ON THE AIRPORT.
6. ACCESS TO THE SITE - THE CONTRACTOR'S ACCESS POINTS TO THE SITE SHALL BE THROUGH DESIGNATED SECURITY GATES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL VEHICLES AND PERSONNEL THAT ENTER THROUGH THESE DESIGNATED AIRPORT SECURITY GATES. AIRPORT SECURITY GATES SHALL BE SECURED AT ALL TIMES. EMPLOYEE PERSONAL VEHICLES WILL NOT BE ALLOWED INSIDE THE AOA.
7. HAUL ROUTES - THE CONTRACTOR'S ON-AIRPORT HAUL ROUTES AND CONSTRUCTION ACCESS SHALL BE EXISTING HAUL ROADS WHERE AVAILABLE. ANY DEBRIS (WHETHER CAUSED BY THE CONTRACTOR OR NOT) SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. 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/CONSTRUCTION ACCESS SHALL BE MAINTAINED AND STABILIZED BY THE CONTRACTOR AS REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT THROUGHOUT THE DURATION OF THIS PROJECT AND SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE/CONSTRUCTION ACCESS UNLESS OTHERWISE DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES/CONSTRUCTION ACCESS SHALL BE JOINTLY INSPECTED AND AGREED UPON BY THE CONTRACTOR AND THE CONSTRUCTION MANAGER. FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT/REMOVE TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE DAA AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES EXCEPT AS NOTED IN THE CONSTRUCTION SAFETY PHASING AND AS APPROVED BY THE DAA AUTHORIZED REPRESENTATIVE, DAA AND FAA.
8. CONTRACTOR'S STAGING AREAS - AN AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES, FENCE, TREES, ETC. WITHIN THE STAGING AREA AND THE SITE SHALL BE RESTORED TO ITS ORIGINAL CONDITION WITHIN THIRTY (30) DAYS OF THE COMPLETION OF USE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. THE CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE/STAGING AREA WHEN CONSTRUCTION IS NOT IN PROGRESS. PROTECTION AND SECURITY OF CONTRACTOR'S MATERIALS AND EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE RESTORATION OF ANY AND ALL AREAS DISTURBED BY THIS PROJECT IS INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.
10. PROJECT WORK IS LIMITED TO THE MODIFICATION OF EXISTING LIGHT BASE CANS AND THE ADDITION OF GROUND RODS. DISTURBANCE OF THE SITE IS LIMITED, AND THUS STORM WATER MANAGEMENT AND EROSION CONTROL MEASURES ARE NOT PART OF THE PROJECT SCOPE.
11. DISPOSAL AREAS - EXCESS MATERIALS REMOVED FROM THE SITE MUST BE DISPOSED AT APPROVED LOCATIONS OFFSITE. OFFSITE DISPOSAL AREAS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.
12. SAFETY - THE CONTRACTOR SHALL CONDUCT ALL ACTIVITIES IN A SAFE MANNER AS SPECIFIED BY LOCAL, STATE AND FEDERAL LAWS.

13. PROTECTION AND REPAIR OF EXISTING UTILITIES - LOCATIONS OF KNOWN EXISTING AIRPORT UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY VISUAL INVESTIGATION, HAND EXCAVATION OR OTHER METHODS IN COORDINATION WITH ALL UTILITY COMPANIES, FAA AND DAA FACILITIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES BY THE PROPOSED IMPROVEMENTS SHALL BE RESOLVED WITH THE DAA AUTHORIZED REPRESENTATIVE PRIOR TO BEGINNING THE CONSTRUCTION ACTIVITIES. ANY REPAIRS TO EXISTING UTILITIES DAMAGED BY CONTRACTOR ACTIVITIES SHALL BE COMPLETED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF AN FAA REPRESENTATIVE. THE FAA MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS, IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS AT NO ADDITIONAL EXPENSE TO THE OWNER.
14. EXISTING AIRFIELD LIGHTING SYSTEMS - INTERRUPTION OF EXISTING AIRFIELD LIGHTING SYSTEMS NOT INCLUDED IN THIS PROJECT SHALL NOT BE PERMITTED. ALL AIRFIELD LIGHTING CIRCUITS AFFECTED BY THIS PROJECT SHALL BE TEMPORARILY MAINTAINED BY THE CONTRACTOR DURING OPERATIONAL PERIODS AND COORDINATED THROUGH THE DAA AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL IMMEDIATELY REPLACE RUNWAY/TAXIWAY SIGNS AND LIGHTS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION AT THE CONTRACTOR'S EXPENSE.
15. CONSTRUCTION LIMITS - ALL CONTRACTOR VEHICLES AND TRAFFIC (UNLESS OTHERWISE AUTHORIZED) SHALL REMAIN WITHIN THE DESIGNATED STAGING AREA, CONSTRUCTION LIMITS AND HAUL ROUTES.
16. PORTABLE FLOODLIGHTING - IF NEEDED, THE CONTRACTOR SHALL PROVIDE PORTABLE FLOODLIGHTING AS REQUIRED FOR NIGHT CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL PROVIDE SUFFICIENT UNITS SO THAT ALL WORK AREAS ARE ILLUMINATED TO A MINIMUM LEVEL OF 5 HORIZONTAL FOOT CANDLES. THE LIGHTING LEVELS SHALL BE CALCULATED AND MEASURED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE ILLUMINATION ENGINEERING SOCIETY. THE CONTRACTOR SHALL COORDINATE THE USE OF FLOODLIGHTING WITH THE DAA AUTHORIZED REPRESENTATIVE AND AIR TRAFFIC CONTROL TOWER TO ENSURE LIGHTING DOES NOT COMPROMISE THE CONTROL TOWER PERSONNEL'S VISIBILITY OR CAUSE CONFUSION TO PILOTS.
17. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION WORK.
18. IF ANY UNUSUAL ODORS, SOIL STAINS, OR BURIED WASTES ARE ENCOUNTERED, STOP WORK IMMEDIATELY AND NOTIFY THE OWNER, AND/OR DAA AUTHORIZED REPRESENTATIVE.
19. THE CONTRACTOR SHALL FURNISH THE OWNER FIVE (5) SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL NEW EQUIPMENT INSTALLED.
20. WORK PERFORMED UNDER THIS CONTRACT WILL NOT BE CONSIDERED COMPLETE UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER AND RECEIPT AND APPROVAL OF THE FOLLOWING DOCUMENTS:
  - A) CONTRACTOR'S WAIVER AND RELEASE OF LIEN.
  - B) ABSOLUTE BILL OF SALE.
  - C) CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT).
  - D) CONTRACTOR AS-BUILTS.
  - E) FINAL PUNCH LIST COMPLETED AND ACCEPTED BY THE DAA AUTHORIZED REPRESENTATIVE.
  - F) TRANSFER OF OWNER WARRANTY.
21. IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PREVAILING WAGE RATES SHALL BE POSTED AT THE CONTRACTOR STAGING AREA IN A WEATHERPROOF ENCLOSURE AND COPIES SHALL BE SUBMITTED TO THE DAA AUTHORIZED REPRESENTATIVE AND THE OWNER.
22. CONTRACTOR FIELD STAFF SHALL ATTEND DPA SAFETY MEETING PRIOR TO MOBILIZATION.
23. CONTRACTOR WILL BE REQUIRED TO PLACE AIRPORT FLAGS AND WORKING BEACON LIGHTS ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION.

**CALL J.U.L.I.E**  
**BEFORE EXCAVATING**  
**1-800-892-0123**

## SECURITY NOTES

1. THE CONTRACTOR SHALL DESIGNATE TO THE DAA AUTHORIZED REPRESENTATIVE IN WRITING THE NAME OF ITS 'CONTRACTOR SECURITY OFFICER' (C.S.O.). THE C.S.O. SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH THE VARIOUS ASPECTS OF FAR 49 CFR PART 1542: "AIRPORT SECURITY", ADMINISTERED BY THE TRANSPORTATION SECURITY ADMINISTRATION (TSA). ANY VIOLATION OF CFR PART 1542 BY THE CONTRACTOR AND ANY SUBSEQUENT FINES IMPOSED DUE TO THE VIOLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE C.S.O. SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND PROVISIONS ADOPTED BY THE DUPAGE AIRPORT AUTHORITY (DAA). ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
3. ACCESS TO SITE: THE AIRPORT WILL PROVIDE AIRFIELD OPERATIONS AREA ESCORTS AT NO COST TO THE CONTRACTOR. CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE SAFETY PLAN OR AS DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE. NO OTHER ACCESS POINT SHALL BE ALLOWED UNLESS APPROVED BY THE DAA AUTHORIZED REPRESENTATIVE. IF A GATE IS TO BE LEFT UNLOCKED, CONTRACTOR SHALL PROVIDE GATE GUARDS FOR THE DURATION OF THE UNLOCKED CONDITION. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SITE SHALL BE EXPERIENCED IN THE ROUTE OR ESCORTED BY THE CONTRACTOR PERSONNEL EXCEPT FOR WITHIN THE AIRCRAFT MOVEMENT AREA WHERE ALL VEHICLES MUST BE ESCORTED BY A DAA ESCORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE ACCESS GATE TO THE SITE. A CONTRACTOR'S FLAGMAN OR TRAFFIC CONTROL PERSON SHALL MONITOR AND COORDINATE ALL CONTRACTOR TRAFFIC AT THE ACCESS GATE. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE AIRPORT OPERATIONS AREA (AOA). DIRECTIONAL SIGNING ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL BE AS DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE.
4. CONSTRUCTION AREA LIMITS: THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, PARKING AREA AND OTHER AREAS DEFINED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED AND LIGHTED. THE CONTRACTOR SHALL ERECT AND MAINTAIN FENCING AROUND THE PERIMETER OF THESE AREAS AND VISIBLE DEVICES FOR DAY/NIGHT USE. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT CRITICAL ACCESS POINTS. THE TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY THE DAA AUTHORIZED REPRESENTATIVE AND AIRPORT OPERATIONS.
5. THE C.S.O. SHALL PROVIDE OPERATIONS AND THE DAA AUTHORIZED REPRESENTATIVE A CURRENT LIST OF COMPANIES AUTHORIZED TO CONDUCT WORK ON THE AIRPORT. CONTRACTOR EMPLOYEE PERSONAL VEHICLES SHALL BE RESTRICTED TO THE CONTRACTORS EMPLOYEE PARKING AREA AND ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.
6. BADGING AND SITE SPECIFIC SAFETY WILL BE REQUIRED FOR CONTRACT PERSONNEL AS DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE.

		
8735 W. HIGGINS ROAD SUITE 400 CHICAGO, IL 60631		ELEVATED FUTURE GROUNDING UPDATES DPA-4802 DUPAGE AIRPORT WEST CHICAGO, IL
GENERAL AND SECURITY NOTES		N.T.S. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE - 03/05/2021 PROJ - DPA-4802 DWG - C-101		SHEET 03 of 32
FILENAME: XXXXXX-C-101.dwg		PLOT DATE: 3/12/2021
PLOT TIME: 4:47 PM		100% SUBMITTAL

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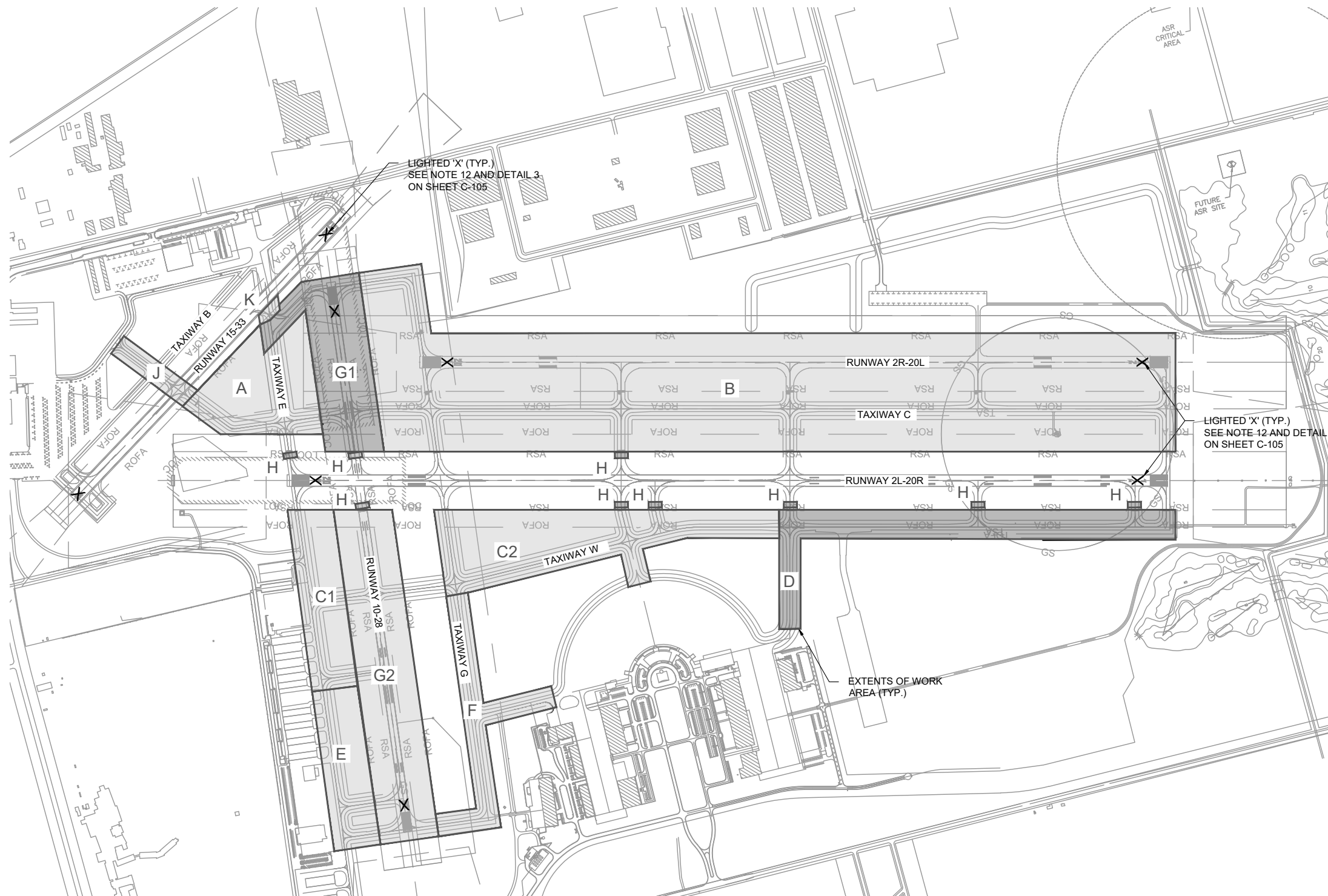
**PHASING NOTES**

- THE INTENT OF THE PHASING PLAN IS TO MAXIMIZE SAFETY AND MINIMIZE THE IMPACT OF THE CONSTRUCTION ON THE OPERATIONS OF THE AIRPORT. IF THE CONTRACTOR IDENTIFIES ANY UNSAFE SITUATIONS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF THE DAA AUTHORIZED REPRESENTATIVE IMMEDIATELY.
- ALL AIRFIELD PAVEMENT CLOSURES SHALL BE TEMPORARY CLOSURES AS DESCRIBED IN FAA AC 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION". THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS SET FORTH IN THE CONTRACT DOCUMENTS REGARDING AIRFIELD CLOSURES, SAFETY, AND SECURITY.
- PRIOR TO REOPENING CLOSED AIRFIELD PAVEMENTS, THE ENTIRE SAFETY AREA MUST MEET FAA CRITERIA UNLESS OTHERWISE DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR SHALL SUBMIT A 2 WEEK LOOK AHEAD SCHEDULE TO THE DAA AUTHORIZED REPRESENTATIVE ON A WEEKLY BASIS. THE CONTRACTOR MUST ADHERE TO THIS SCHEDULE TO AVOID CONFLICTS WITH AIRPORT OPERATIONS, EXCEPT WHEN DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE DAA AUTHORIZED REPRESENTATIVE TO SCHEDULE THE RUNWAY/TAXIWAY CLOSURES. THE DAA AUTHORIZED REPRESENTATIVE AND THE CONTRACTOR SHALL MUTUALLY AGREE ON THE EXACT DATES AND TIMES OF THE CLOSURE(S).
- CONTRACTOR MUST MAINTAIN ACCESS TO ALL ACTIVE AND OPEN AREAS AT ALL TIMES. CONTRACTOR SHALL RELOCATE EQUIPMENT AT NO ADDITIONAL COST TO CONTRACT TO ALLOW AIRCRAFT TO PASS.
- THE AIRPORT RESERVES THE RIGHT TO MODIFY THE SEQUENCE OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO WORK AREAS, BARRICADE PLACEMENT, ACCESS AND HAUL ROUTES, AND CONTRACTOR MOVEMENTS AT ANY TIME DURING THE PROJECT. WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS IS INCIDENTAL TO THE CONTRACT.
- FOR EACH AREA OF WORK, ENTIRE AND/OR PORTIONS OF EXISTING SIGNS THAT LEAD TO CLOSED TAXIWAYS/RUNWAYS SHALL BE TEMPORARILY COVERED SO THAT WHEN THE SIGN IS ON, THE CLOSED PORTION IS NOT VISIBLE, AS APPROVED BY THE AIRPORT AND THE DAA AUTHORIZED REPRESENTATIVE. WORK REQUIRED TO COMPLY WITH THIS REQUIREMENT IS INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING FAA UTILITIES, NAVAIDS, CABLES AND GROUNDING AT ALL TIMES.
- LOW-PROFILE BARRICADES TO BE PLACED WITH A MAXIMUM 8'-0" GAP BETWEEN BARRICADES ALONG OPERATIONAL PAVEMENT, ADJACENT TO CONSTRUCTION, AS DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE. ONE ORANGE DELINEATOR CONE SHALL BE INSTALLED AT THE MIDPOINT BETWEEN BARRICADES. SEE DETAILS ON SHEET C-105.
- SEE SHEET C-103 FOR STANDARD DETAIL ON LOW PROFILE BARRICADE PLACEMENT FOR SHORT TERM RUNWAY AND TAXIWAY CLOSURES.
- LIGHTED 'X'S ARE REQUIRED FOR RUNWAY CLOSURES. RUNWAY CLOSURES WILL BE IN PLACE WHEN WORK BREACHES THE RUNWAY SAFETY AREA. THE CONTRACTOR MAY UTILIZE 2 OF THE AIRPORT'S LIGHTED 'X'S. ANY ADDITIONAL LIGHTED 'X'S MUST BE PROVIDED BY THE CONTRACTOR. USE OF AIRFIELD LIGHTED 'X'S ARE INCIDENTAL TO THE CONTRACT.
- DURING RUNWAY CLOSURES, ALL TAXIWAYS ACCESSING THE CLOSED RUNWAY MUST BE CLOSED USING LOW PROFILE BARRICADES EXCLUDING TAXIWAYS BEING MAINTAINED FOR CROSS AIRFIELD ACCESS WHERE THE BARRICADES MUST BE PLACED ACROSS THE RUNWAY. BARRICADES WILL BE PLACED AT THE TAXIWAY OBJECT FREE AREA IN ACCORDANCE WITH DETAILS ON SHEET C-105. EXACT LOCATIONS SHALL BE COORDINATED WITH THE DAA AUTHORIZED REPRESENTATIVE AND INCLUDED WITH THE 2 WEEK LOOK AHEAD SCHEDULE.
- CONTRACTOR ACCESS TO WORK AREAS WITHIN THE OPERATIONS AREA WILL ONLY BE ALLOWED WHEN ACCOMPANIED BY DAA ESCORT AND LIMITED TO START AND END OF WORK SHIFT.
- ONE WORK AREA MUST BE COMPLETED AT A TIME WITH THE AREA FULLY COMPLETED BEFORE MOVING ONTO ANOTHER WORK AREA.
- 8-HOUR DAILY SHIFTS ARE TO BE MAINTAINED UNLESS OTHERWISE APPROVED BY DAA AUTHORIZED REPRESENTATIVE.
- ACCESS TO CLOSED AREAS MUST BE RETURNED AT THE END OF EACH WORK SHIFT.

**Construction Schedule**  
(Total Construction Days = 76)

ID	Task Name	Working Days	Calendar Days	Start	Finish	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
1	IDOT Letting		1	23-Apr-21	23-Apr-21					
2	Anticipated Award		1	23-Jul-21	23-Jul-21					
3	Mobilization		53	23-Jul-21	13-Sep-21					
4	Material Submittal Preparation and Review		36	23-Jul-21	27-Aug-21					
5	Material Lead Time		15	30-Aug-21	13-Sep-21					
6	Traffic Maintenance	37*	74	14-Sep-21	26-Nov-21					
7	Metallic Frangible Coupling	37*	74	14-Sep-21	26-Nov-21					
8	5/8" x 10' Copper Clad Ground Rod	37*	74	14-Sep-21	26-Nov-21					
9	Punch List / Project Close Out	2	2	29-Nov-21	30-Nov-21					

\* - NOTE: SPECIFIC PHASE DURATIONS ARE IDENTIFIED WITH THE INDIVIDUAL PHASES



**LEGEND:**

- PROPOSED WORK AREAS (D=DAY WORK, N=NIGHT WORK)
- LIGHTED X REQUIRED FOR RUNWAY CLOSURES (DETAIL 3 ON SHEET C-105)



NO.	DATE	DR	TL	CHK	APVD	BY	APVD

8735 W. HIGGINS ROAD  
SUITE 400  
CHICAGO, IL 60631

ELEVATED FUTURE GROUNDING UPDATES  
DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

**ch2m**

**PHASING PLAN OVERVIEW**

1" = 500'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE - 03/10/2021  
PROJ - DPA-4802  
DWG - C-104  
SHEET 06 of 32

100% SUBMITTAL

















**GENERAL NOTES**

1. FOR GENERAL PHASING NOTES SEE SHEET C-104.

**NOTES**

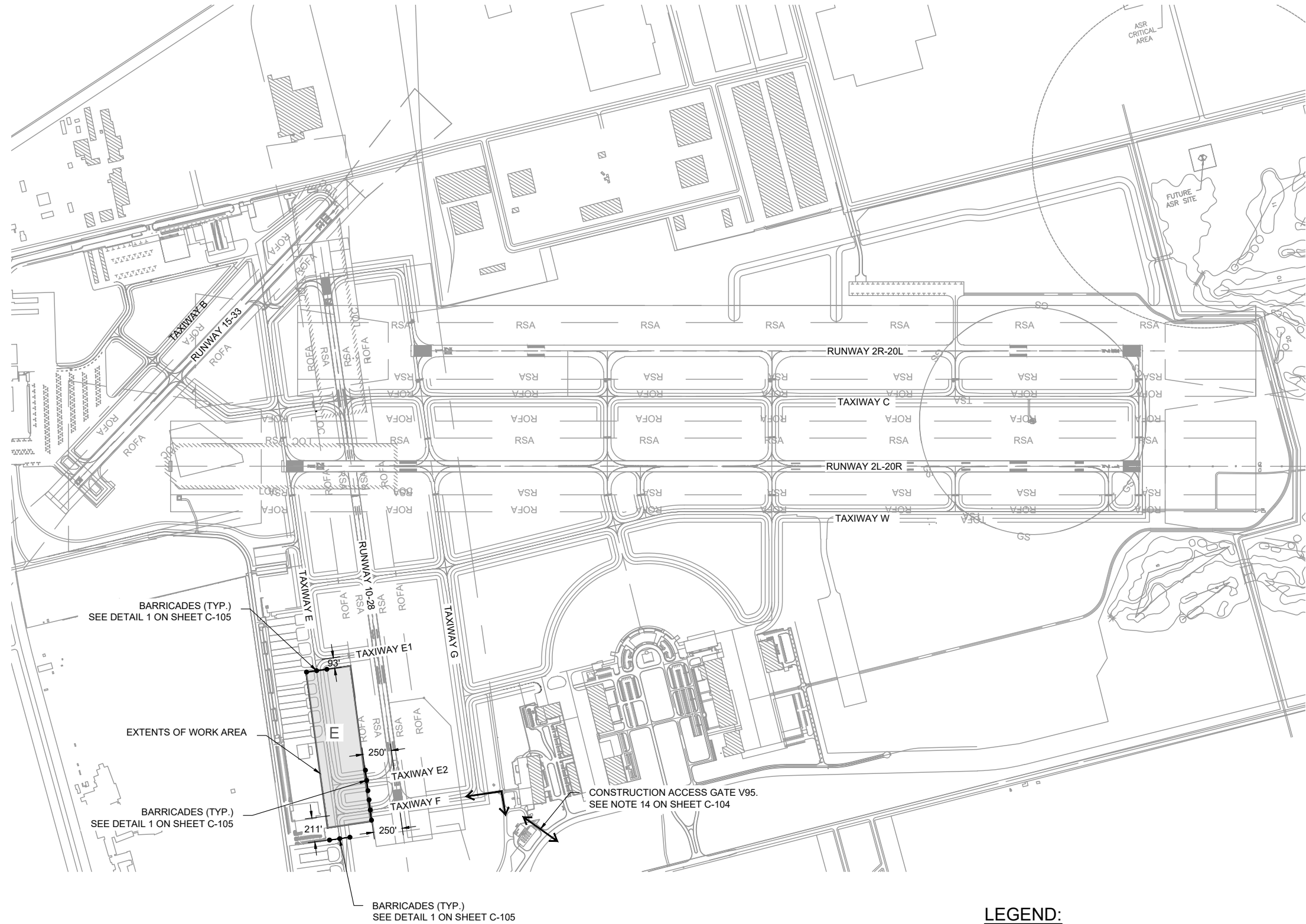
**WORK AREA E - TAXIWAY E**

**GENERAL DESCRIPTION**





- SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS.
- RESTORATION OF IMPACTED AREAS.

**RESTRICTIONS AND DURATION**

- SECTIONS OF TAXIWAY E, TAXIWAY E2 AND TAXIWAY F MAY BE CLOSED FOR CONSTRUCTION FOR A DURATION NOT TO EXCEED 2 CALENDAR DAYS TOTAL DURING CONSTRUCTION.
- ACCESS TO HANGAR E5 THROUGH HANGAR E21 AND PLANEMASTERS MAY BE TEMPORARY LIMITED.
- THE CONTRACTOR MUST REQUEST ACCESS A MINIMUM OF 7 DAYS IN ADVANCE.
- ESCORTS AND SAFETY TRAINING ARE REQUIRED.
- ANY AIRFIELD CLOSURES FOR WORK MUST ENSURE THAT THE ENTIRE AIRFIELD IS ACCESSIBLE FOR TRAFFIC AND THAT REROUTES ARE ACCOUNTED FOR.
- BARRICADES MUST BE PLACED TO DELINEATE THE WORK ZONE FROM THE ACTIVE AIRFIELD.



**LEGEND:**

-  PROPOSED WORK AREAS (D=DAY WORK, N=NIGHT WORK)
-  LIGHTED X REQUIRED FOR RUNWAY CLOSURES (DETAIL 3 ON SHEET C-105)
-  CONSTRUCTION SITE ACCESS
-  BARRICADES (DETAIL 1 ON SHEET C-105)



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CHICAGO, IL 60631

ELEVATED FUTURE GROUNDING UPDATES  
DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

**ch2m**

**PHASING PLAN  
PHASE E**

1" = 500'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE - 03/10/2021  
PROJ - DPA-4802  
DWG - C-104E  
SHEET 11 of 32

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**GENERAL NOTES**

1. FOR GENERAL PHASING NOTES SEE SHEET C-104.

**NOTES**

**WORK AREA G1 - RUNWAY 10-28**  
GENERAL DESCRIPTION

- SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS.
- RESTORATION OF IMPACTED AREAS.

**RESTRICTIONS AND DURATION**

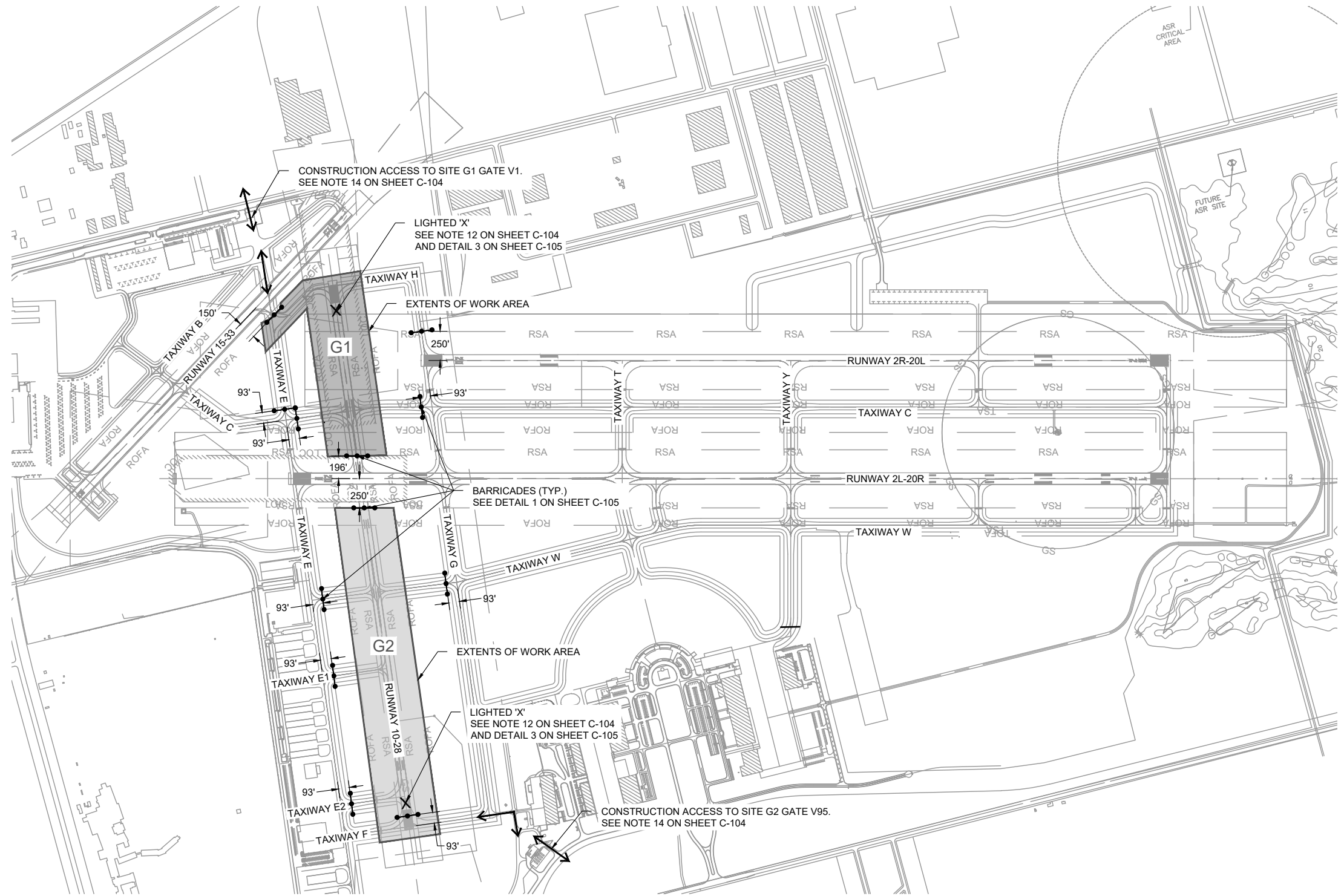
- SECTIONS OF TAXIWAY C, TAXIWAY E, TAXIWAY H AND RUNWAY 10-28 MAY BE CLOSED FOR CONSTRUCTION FOR A DURATION NOT TO EXCEED 6 CALENDAR DAYS TOTAL DURING CONSTRUCTION.
- THE CONTRACTOR MUST REQUEST ACCESS A MINIMUM OF 7 DAYS IN ADVANCE.
- ESCORTS AND SAFETY TRAINING ARE REQUIRED.
- ANY AIRFIELD CLOSURES FOR WORK MUST ENSURE THAT THE ENTIRE AIRFIELD IS ACCESSIBLE FOR TRAFFIC AND THAT REROUTES ARE ACCOUNTED FOR.
- BARRICADES MUST BE PLACED TO DELINEATE THE WORK ZONE FROM THE ACTIVE AIRFIELD.
- RUNWAY CLOSURES MUST BE MARKED WITH LIGHTED 'X'S.
- NO MORE THAN ONE RUNWAY CAN BE CLOSED AT A TIME.
- CLOSURES WILL BE DICTATED BY WIND DIRECTION.
- CLOSURES MUST BE COMPLETED AS NIGHT WORK BETWEEN THE HOURS OF 7 PM AND 5 AM CST.
- TEMPORARY BYPASS WIRING MAY BE REQUIRED TO LIGHT AREAS OUTSIDE OF THE WORK ZONE THAT SHARE A COMMON CIRCUIT.

**WORK AREA G2 - RUNWAY 10-28**  
GENERAL DESCRIPTION





- SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS.
- RESTORATION OF IMPACTED AREAS.

**RESTRICTIONS AND DURATION**

- SECTIONS OF TAXIWAY E, TAXIWAY E1, TAXIWAY E2, TAXIWAY W AND RUNWAY 10-28 MAY BE CLOSED FOR CONSTRUCTION FOR A DURATION NOT TO EXCEED 3 CALENDAR DAYS TOTAL DURING CONSTRUCTION.
- THE CONTRACTOR MUST REQUEST ACCESS A MINIMUM OF 7 DAYS IN ADVANCE.
- ESCORTS AND SAFETY TRAINING ARE REQUIRED.
- ANY AIRFIELD CLOSURES FOR WORK MUST ENSURE THAT THE ENTIRE AIRFIELD IS ACCESSIBLE FOR TRAFFIC AND THAT REROUTES ARE ACCOUNTED FOR.
- BARRICADES MUST BE PLACED TO DELINEATE THE WORK ZONE FROM THE ACTIVE AIRFIELD.
- RUNWAY CLOSURES MUST BE MARKED WITH LIGHTED 'X'S.
- NO MORE THAN ONE RUNWAY CAN BE CLOSED AT A TIME.
- CLOSURES WILL BE DICTATED BY WIND DIRECTION.
- CLOSURES MAY BE COMPLETED AS DAY WORK BUT MUST BE COORDINATED WITH WIND CONDITIONS/DAA, OTHERWISE MUST COMPLETED AS NIGHT WORK BETWEEN THE HOURS OF 7 PM AND 5 AM CST.
- TAXIWAY F AND TAXIWAY W CLOSURE ONE AT A TIME TO COMPLETE WORK. ONE TAXIWAY MUST REMAIN OPEN.
- TEMPORARY BYPASS WIRING MAY BE REQUIRED TO LIGHT AREAS OUTSIDE OF THE WORK ZONE THAT SHARE A COMMON CIRCUIT.



**LEGEND:**

-  PROPOSED WORK AREAS (D=DAY WORK, N=NIGHT WORK)
-  LIGHTED 'X' REQUIRED FOR RUNWAY CLOSURES (DETAIL 3 ON SHEET C-105)
-  CONSTRUCTION SITE ACCESS
-  BARRICADES (DETAIL 1 ON SHEET C-105)



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DUPAGE AIRPORT  
WEST CHICAGO, IL

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**PHASING PLAN  
PHASE G1 & G2**

1" = 500'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE - 03/10/2021  
PROJ - DPA-4802  
DWG - C-104G  
SHEET 13 of 32









**GENERAL NOTES**

1. FOR GENERAL PHASING NOTES SEE SHEET C-104.

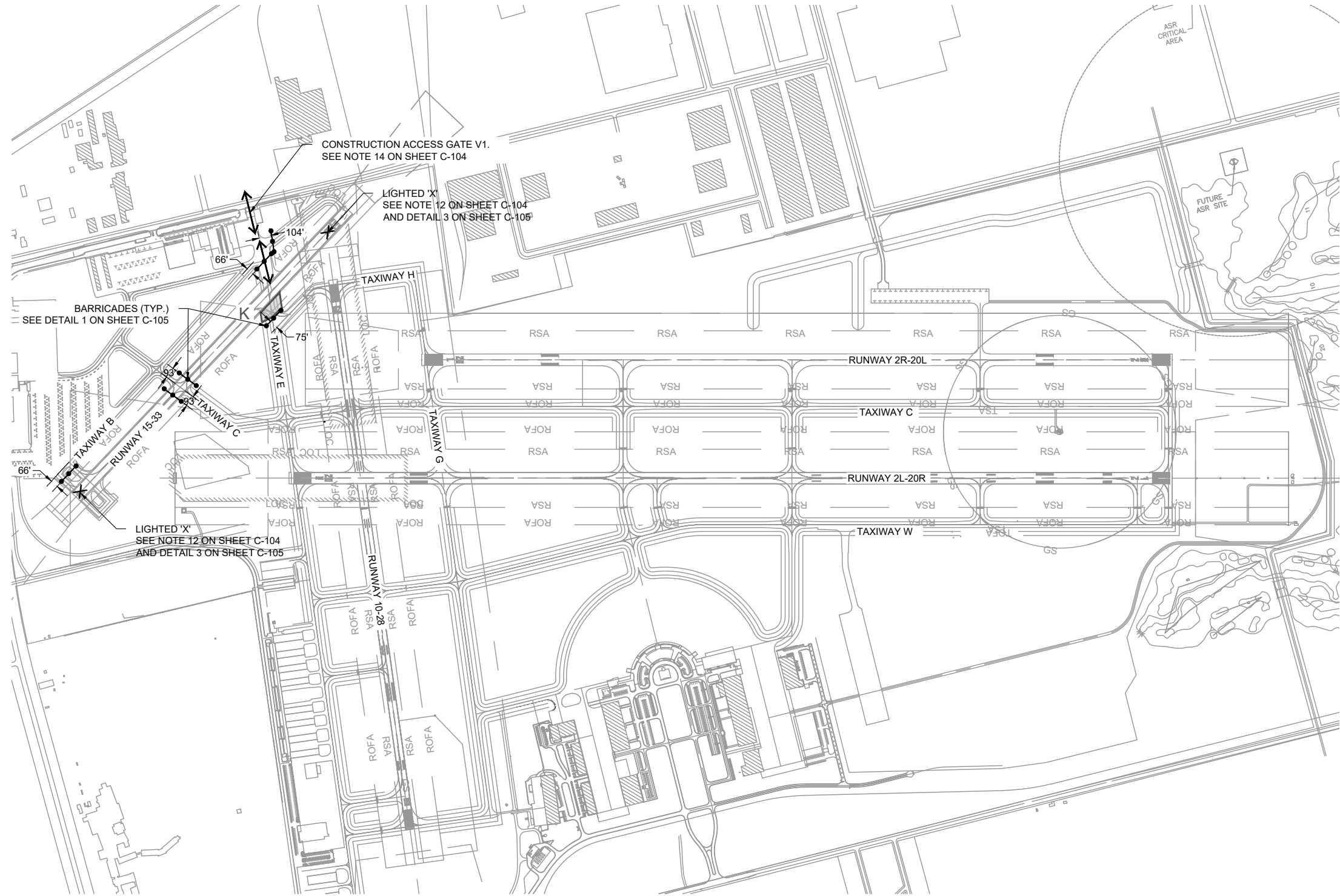
**NOTES**

**WORK AREA K - RUNWAY 15-33**  
GENERAL DESCRIPTION

- SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS.
- RESTORATION OF IMPACTED AREAS.

**RESTRICTIONS AND DURATION**

- SECTIONS OF TAXIWAY B, TAXIWAY E, TAXIWAY H AND RUNWAY 15-33 MAY BE CLOSED FOR CONSTRUCTION FOR A DURATION NOT TO EXCEED 1 CALENDAR DAYS TOTAL DURING CONSTRUCTION.
- THE CONTRACTOR MUST REQUEST ACCESS A MINIMUM OF 7 DAYS IN ADVANCE.
- ESCORTS AND SAFETY TRAINING ARE REQUIRED.
- ANY AIRFIELD CLOSURES FOR WORK MUST ENSURE THAT THE ENTIRE AIRFIELD IS ACCESSIBLE FOR TRAFFIC AND THAT REROUTES ARE ACCOUNTED FOR.
- BARRICADES MUST BE PLACED TO DELINEATE THE WORK ZONE FROM THE ACTIVE AIRFIELD.
- RUNWAY CLOSURES MUST BE MARKED WITH LIGHTED 'X'S.
- ONE WORK AREA MUST BE COMPLETED AT A TIME WITH THE AREA FULLY COMPLETED BEFORE MOVING ONTO ANOTHER WORK AREA.



**LEGEND:**

PROPOSED WORK AREAS  
(D=DAY WORK, N=NIGHT WORK)

LIGHTED X REQUIRED FOR RUNWAY CLOSURES  
(DETAIL 3 ON SHEET C-105)

CONSTRUCTION SITE ACCESS

BARRICADES  
(DETAIL 1 ON SHEET C-105)



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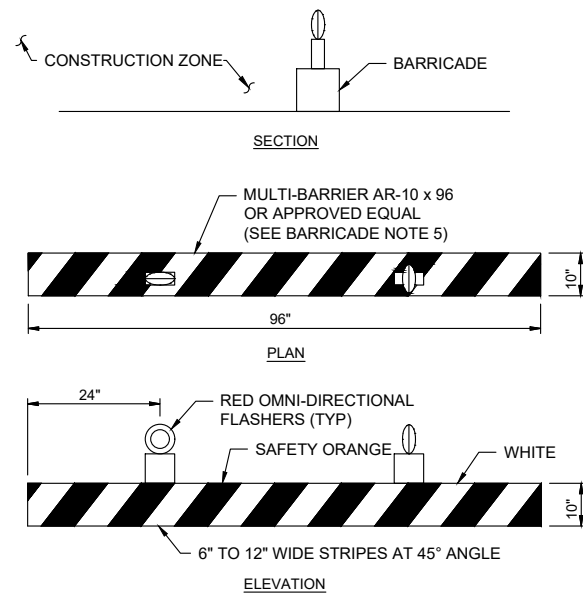
**PHASING PLAN  
PHASE K**

1" = 500'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

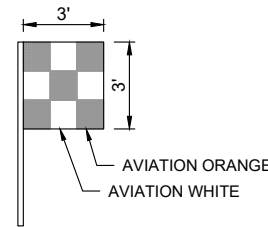
DATE	-	03/10/2021
PROJ	-	DPA-4802
DWG	-	C-104K
SHEET	16	of 32

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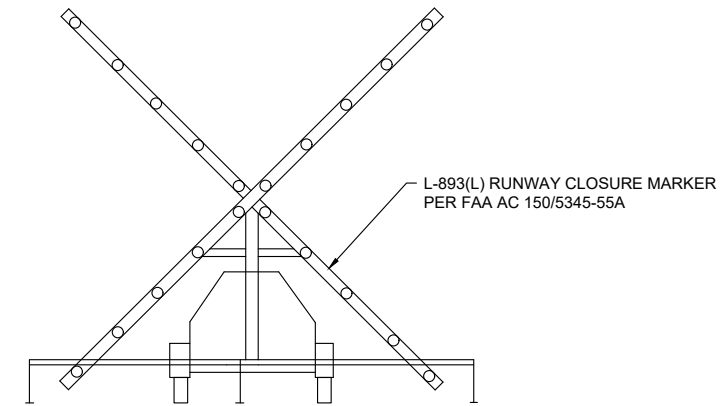




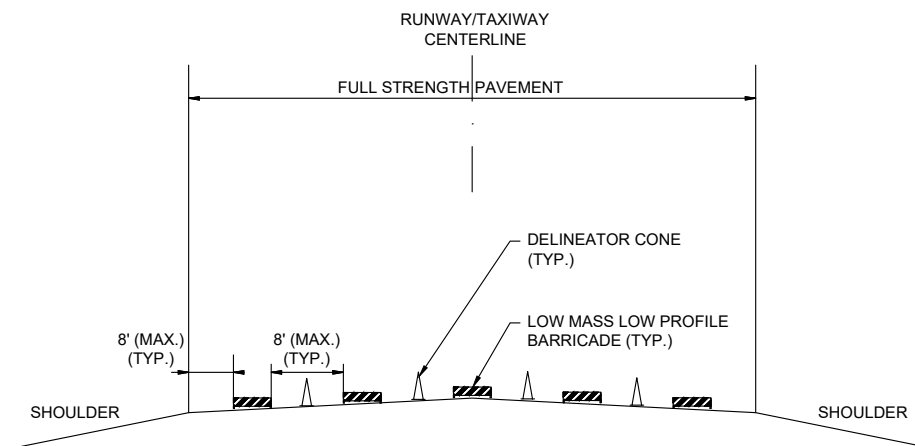
1 LOW-PROFILE BARRICADE DETAIL  
NTS



2 VEHICLE FLAG  
NTS

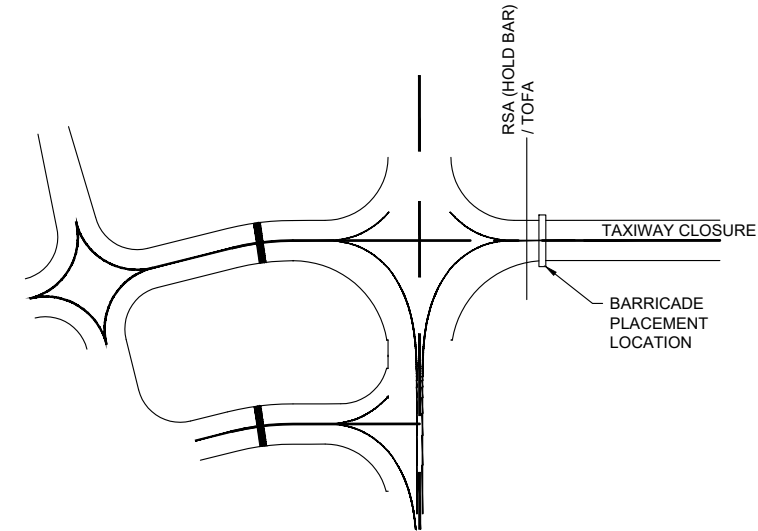


3 LIGHTED 'X' RUNWAY CLOSURE MARKER  
NTS



NOTE: NUMBER OF BARRICADES TO BE ADJUSTED AS REQUIRED BY FULL STRENGTH PAVEMENT WIDTH TO MAINTAIN 8' MAXIMUM SPACING

4 BARRICADE PLACEMENT FOR SHORT TERM RUNWAY/TAXIWAY CLOSURE (LESS THAN 24 HOURS)  
NTS



5 TYPICAL BARRICADE PLACEMENT FOR SHORT TERM RUNWAY/TAXIWAY CLOSURE (PLAN VIEW)  
NTS

**BARRICADE NOTES:**

- ALL AIRFIELD PAVEMENT CLOSURES SHALL BE TEMPORARY CLOSURES AS DESCRIBED IN FAA AC 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION." THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS SET FORTH IN THE CONTRACT DOCUMENTS REGARDING AIRFIELD CLOSURES, SAFETY, AND SECURITY.
- PRIOR TO REOPENING CLOSED AIRFIELD PAVEMENTS, THE ENTIRE SAFETY AREA MUST MEET FAA CRITERIA UNLESS OTHERWISE DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE.
- FLASHERS TO BE BATTERY OPERATED AND/OR SOLAR POWERED. LENS TO BE RED AND BE ABLE TO ROTATE 90°.
- FACING OF LOW-PROFILE BARRICADE TO BE COVERED WITH REFLECTIVE MATERIAL.
- LOW-PROFILE BARRICADES TO BE PLACED END TO END ALONG OPERATIONAL PAVEMENT, ADJACENT TO CONSTRUCTION, AS DIRECTED BY THE DAA AUTHORIZED REPRESENTATIVE.
- FLASHERS SHALL BE SECURED TO THE BARRICADES, PER MANUFACTURER'S INSTRUCTIONS. ALTERNATE FLASHER LENSES SO THAT EVERY OTHER LENS IS ROTATED 90°.
- LOW-PROFILE BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF ITS COMPONENTS, AND WEIGHTED OR STURDILY ATTACHED TO THE SURFACE. IF AFFIXED TO THE SURFACE, THE BARRICADE MUST BE FRANGIBLE AT GRADE LEVEL OR AS LOW AS POSSIBLE, NOT TO EXCEED 3 INCHES ABOVE THE GROUND.
- THE CONTRACTOR SHALL PROVIDE BARRICADES WITH RED FLASHING BATTERY OPERATED LIGHTS AS SHOWN IN GOOD WORKING ORDER. CONTRACTOR SHALL MAINTAIN ALL BARRICADES AND ENSURE THEY ARE IN WORKING ORDER TWENTY-FOUR (24) HOURS A DAY, FOR THE DURATION OF THE PROJECT. THE BARRICADE LIGHTING SHALL BE CHECKED NIGHTLY BY THE CONTRACTOR.
- THE LIGHTS SHALL BE OPERATIONAL AT EACH BARRICADE LOCATION AT ALL TIMES. ANY LIGHTS FOUND NON-OPERATIONAL SHALL BE REPAIRED IMMEDIATELY. THE CONTRACTOR MUST HAVE AN EMERGENCY CONTACT NUMBER 24/7 FOR MAINTENANCE AND REPAIR AS NEEDED.
- ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A DAILY BASIS AND SHALL BE REPAINTED OR REPLACED WHEN DEEMED APPROPRIATE BY THE DAA AUTHORIZED REPRESENTATIVE. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED IN OPERATING CONDITION AND GOOD WORKING ORDER BY THE CONTRACTOR ON A DAILY BASIS, BEFORE THE CONTRACTOR CEASES OPERATIONS FOR THE DAY.



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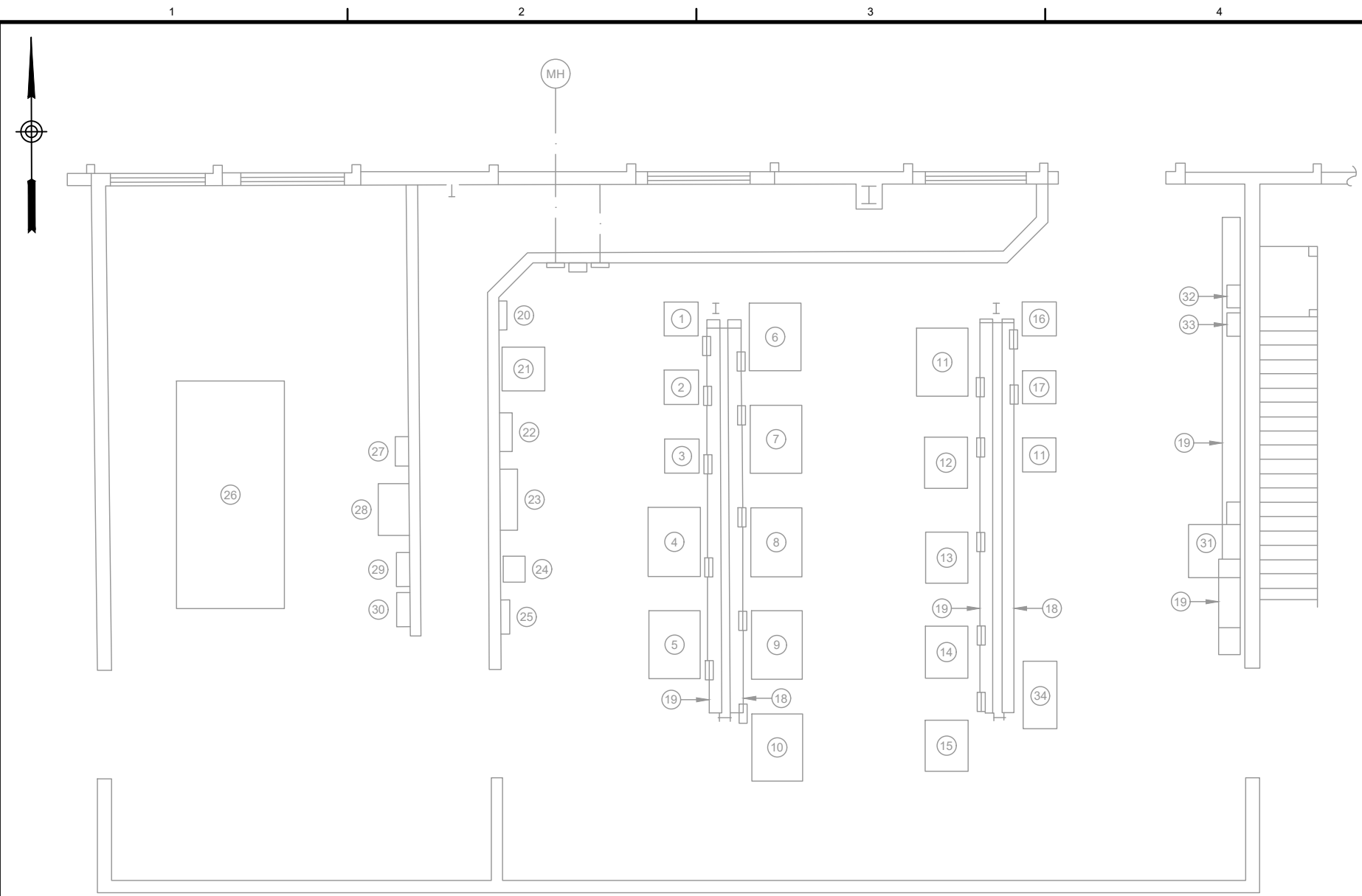
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CIVIL DETAILS  
-1-

N.T.S.	
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DWG	C-105
SHEET 17 of 32	

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**ELECTRICAL VAULT PLAN**  
NTS

**AIRFIELD LIGHTING VAULT EQUIPMENT SCHEDULE:**

1. CONSTANT CURRENT REGULATOR #13 - RUNWAY 15/33  
10 KW - CKT #1
2. CONSTANT CURRENT REGULATOR #14 - RUNWAY 10/28  
30 KW - CKT #2
3. CONSTANT CURRENT REGULATOR #15 - RUNWAY 2R/20L  
10KW - CKT #11
4. CONSTANT CURRENT REGULATOR #16 - RUNWAY 2L/20R  
15KW - CKT #3
5. CONSTANT CURRENT REGULATOR #17 - RUNWAY 2L/20R  
30KW - CKT #18
6. CONSTANT CURRENT REGULATOR #12 - RUNWAY 2L/20R TDZ  
30KW - CKT #17
7. CONSTANT CURRENT REGULATOR #10  
30KW - SPARE #1
8. CONSTANT CURRENT REGULATOR #11  
30KW - SPARE #2
9. CONSTANT CURRENT REGULATOR #2 - TAXIWAY T, Y, Z & C SOUTH  
30KW - CKT #12
10. CONSTANT CURRENT REGULATOR #8 - TAXIWAY W, T, Y, Z  
30KW - CKT #14
11. CONSTANT CURRENT REGULATOR #3 - TAXIWAY L, T, Y  
20KW - CKT #15
12. CONSTANT CURRENT REGULATOR #4 - TAXIWAY G & H/F SOUTH  
15KW - CKT #16
13. CONSTANT CURRENT REGULATOR #5 - TAXIWAY E WEST, F NORTH, E1, E2  
15KW - CKT #4
14. CONSTANT CURRENT REGULATOR #6 - TAXIWAY B SOUTH, A SOUTH  
10KW - CKT #6
15. CONSTANT CURRENT REGULATOR #7 - TAXIWAY B NORTH  
10KW - CKT #7
16. CONSTANT CURRENT REGULATOR #9 - TAXIWAY C NORTH  
N/A
17. CONSTANT CURRENT REGULATOR #1 - TAXIWAY E EAST, H NORTH  
15KW - CKT #5
18. 5KV AIRFIELD LIGHTING CABLE WIREWAY TO BE REMOVED
19. 600V WIREWAY (8" X 8")
20. 208Y/120 VAC, 3 $\phi$ , 4W, LIGHTING PANEL A
21. 75KVA, 480-208Y/120 VAC, TRANSFORMER
22. 480V, 3 $\phi$ , POWER DISTRIBUTION PANEL PDP-2
23. 480V, 3 $\phi$ , POWER DISTRIBUTION PANEL PDP-1
24. 75KVA, 3 $\phi$ , 480V  $\Delta$  TO 480Y/277 VAC TRANSFORMER
25. 480Y/277V POWER DISTRIBUTION PANEL
26. 430KW (537.5 KVA) STAND-BY GENERATOR SET
27. 800A, 480V, 3 $\phi$ , UTILITY MAIN DISCONNECT
28. 800A, 480V, 3 $\phi$ , AUTOMATIC TRANSFER SWITCH
29. 800A, 480V, 3 $\phi$ , GENERATOR SET MAIN DISCONNECT SWITCH
30. 480Y/277V, POWER DISTRIBUTION PANEL
31. ALCMS CABINET
32. FLIGHT CENTER APRON LIGHTING CONTROL PANEL
33. PAPI/WINDCONE CONTROL PANEL

**ELECTRICAL GENERAL NOTES:**

1. THE CONTRACTOR SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND FAA SPECIFICATIONS/ADVISORY CIRCULARS.
2. ALL AIRFIELD LIGHTING OUTAGES SHALL BE REQUESTED AND SCHEDULED WITH THE AIRPORT NO LESS THAN 48 HOURS IN ADVANCE.
3. IF ANY TEMPORARY BYPASS CIRCUITS ARE REQUIRED, THE CONTRACTOR SHALL SUBMIT A PLAN TO THE DAA AUTHORIZED REPRESENTATIVE NO LESS THAN 48 HOURS IN ADVANCE.
4. AIRFIELD LIGHTING VAULT PLAN IS PROVIDED FOR REFERENCE ONLY. ALL EQUIPMENT LOCATED INSIDE THE VAULT IS EXISTING.
5. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING CIRCUITS IMPACTED BY GROUNDING UPDATES AND EMPLOYING PROPER LOCKOUT/TAGOUT PROCEDURES ON IMPACTED AIRFIELD LIGHTING REGULATORS.
6. THE CONTRACTOR SHALL REPLACE EXISTING NONMETALLIC FRANGIBLE COUPLINGS WITH NEW METALLIC FRANGIBLE COUPLINGS AT ALL LIGHT FIXTURES INCLUDED IN THE PROJECT SCOPE. GROUND RODS WITH NEW CONNECTIONS SHALL BE PROVIDED IF NO GROUND ROD CONNECTION CURRENTLY EXISTS.



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DPA-4802  
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WEST CHICAGO, IL

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**ELECTRICAL GENERAL NOTES  
AND VAULT PLAN**

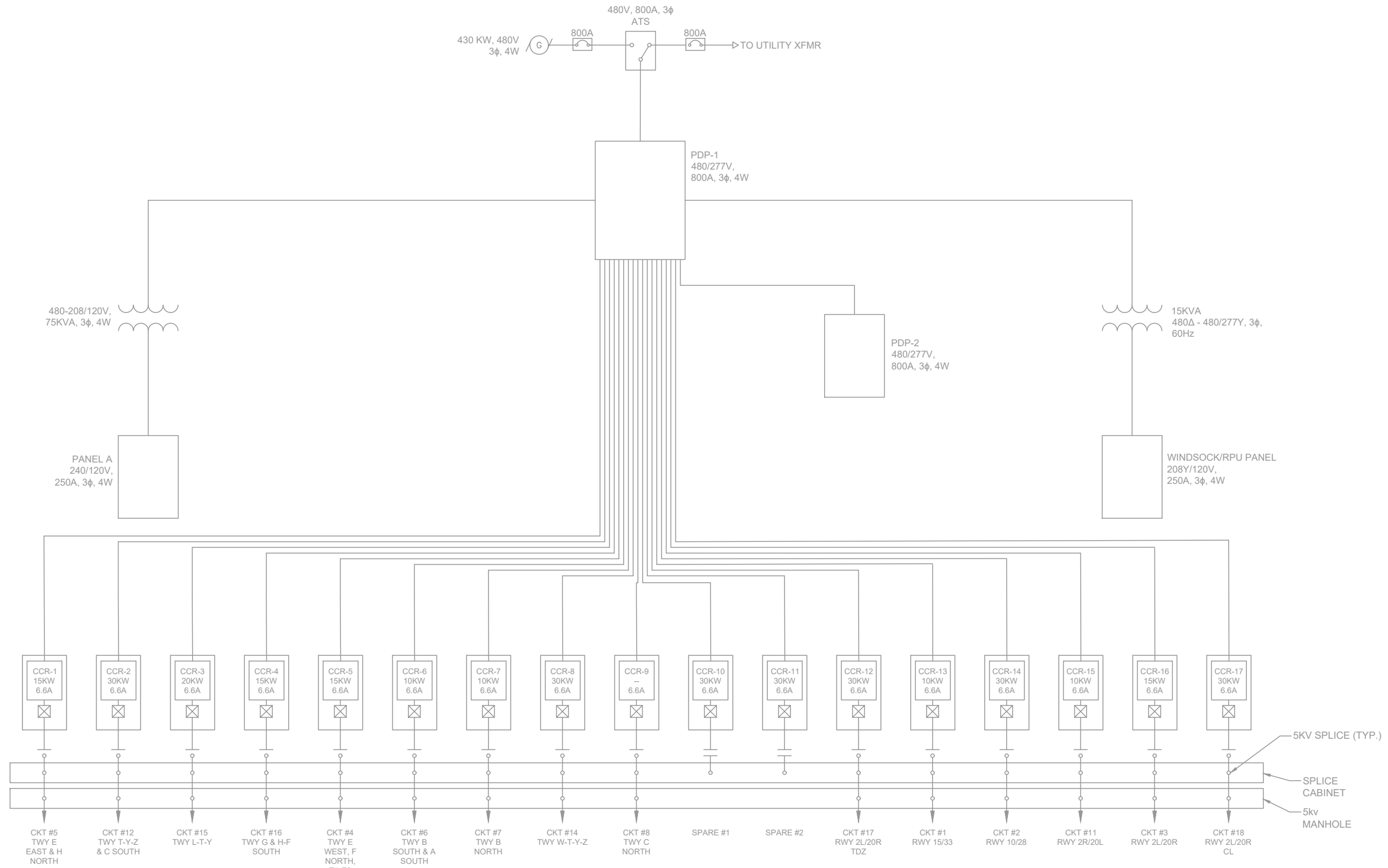
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DWG	- E-101
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**NOTES:**

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**AIRFIELD LIGHTING VAULT SINGLE LINE DIAGRAM**  
N.T.S.



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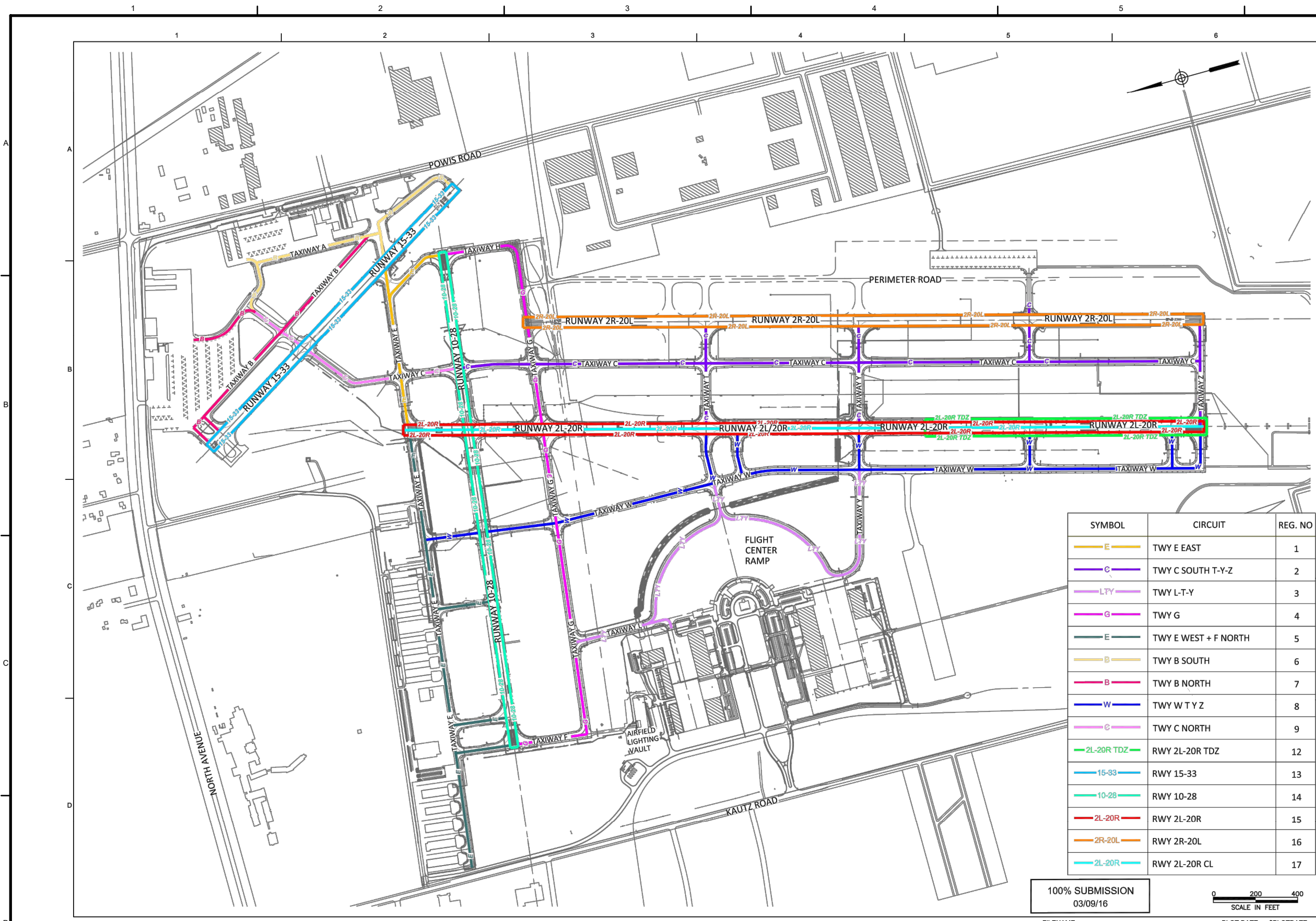
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**ELECTRICAL VAULT  
SINGLE LINE**

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VERIFY SCALE	
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SYMBOL	CIRCUIT	REG. NO
E	TWY E EAST	1
G	TWY C SOUTH T-Y-Z	2
LTY	TWY L-T-Y	3
G	TWY G	4
E	TWY E WEST + F NORTH	5
B	TWY B SOUTH	6
B	TWY B NORTH	7
W	TWY W T Y Z	8
C	TWY C NORTH	9
2L-20R TDZ	RWY 2L-20R TDZ	12
15-33	RWY 15-33	13
10-28	RWY 10-28	14
2L-20R	RWY 2L-20R	15
2R-20L	RWY 2R-20L	16
2L-20R	RWY 2L-20R CL	17

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03/09/16

0 200 400  
SCALE IN FEET

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**DUPAGE AIRPORT AUTHORITY**

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DUPAGE AIRPORT (DPA)  
TASK ORDER #33  
AIRFIELD ELECTRICAL &  
VAULT EQUIPMENT ASSESSMENT

OVERALL AIRFIELD CIRCUIT SCHEMATIC  
LAYOUT PLAN

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	3-9-2016
PROJ	423006
DWG	E-200
SHEET	4 of 30

FILENAME: PLOT DATE: \$PLOTDATE PLOT TIME: \$PLOTTIME

**NOTES:**

- DRAWING PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING CIRCUITS IMPACTED BY ELEVATED FIXTURE GROUNDING UPDATES AND EMPLOYING PROPER LOCKOUT/TAGOUT PROCEDURES ON IMPACTED AIRFIELD LIGHTING REGULATORS.

**DUPAGE AIRPORT AUTHORITY**

NO.	DATE	DR	MPK	CHK	APVD	BY	APVD

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DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

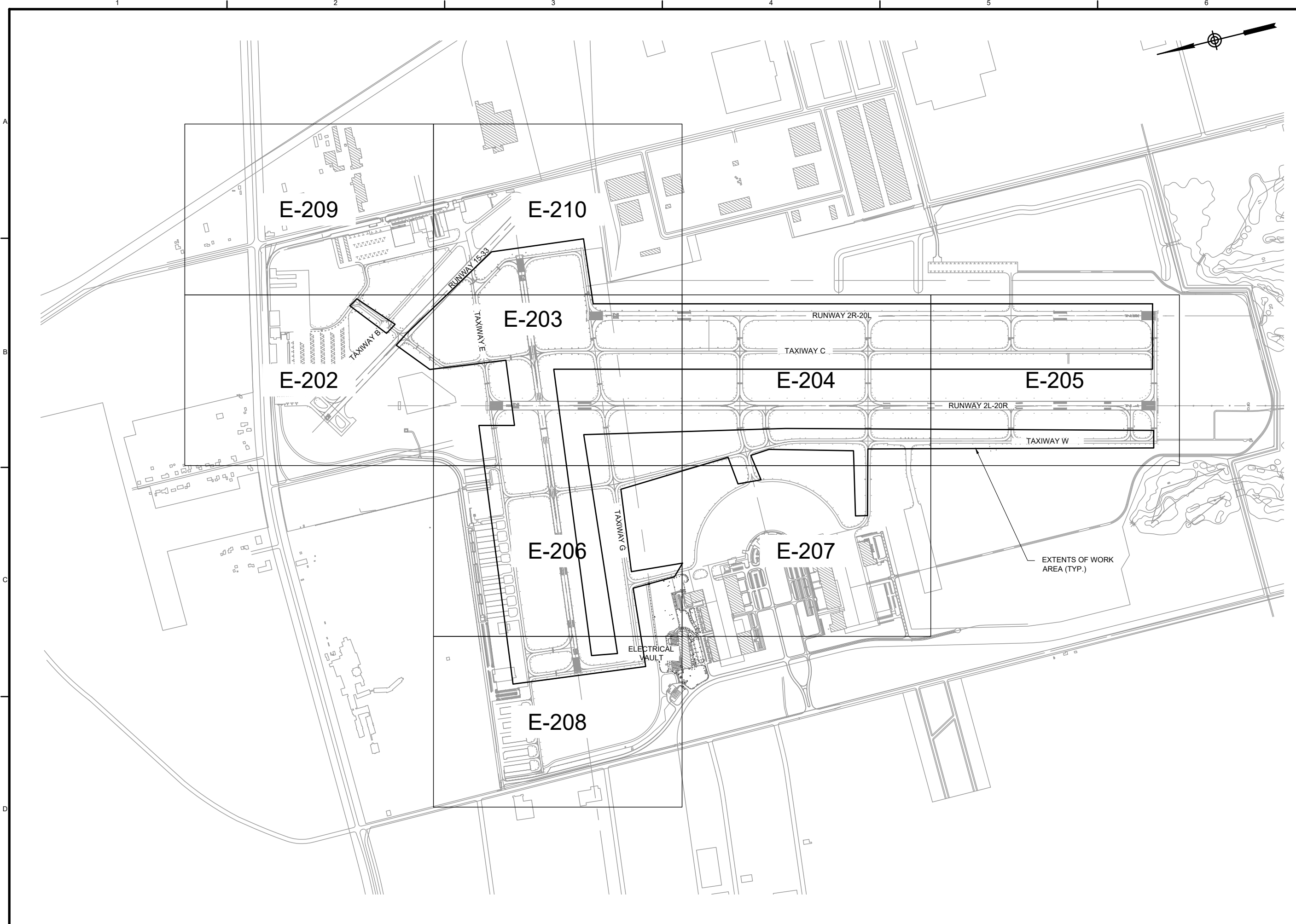
AIRFIELD CIRCUIT LAYOUT

N.T.S.  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	03/05/2021
PROJ	DPA-4802
DWG	E-103
SHEET	20 of 32

FILENAME: XXXXXX-E-103.dwg PLOT DATE: 3/12/2021 PLOT TIME: 4:49 PM





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**AIRFIELD ELECTRICAL  
LAYOUT PLAN  
KEY PLAN**

1" = 500'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

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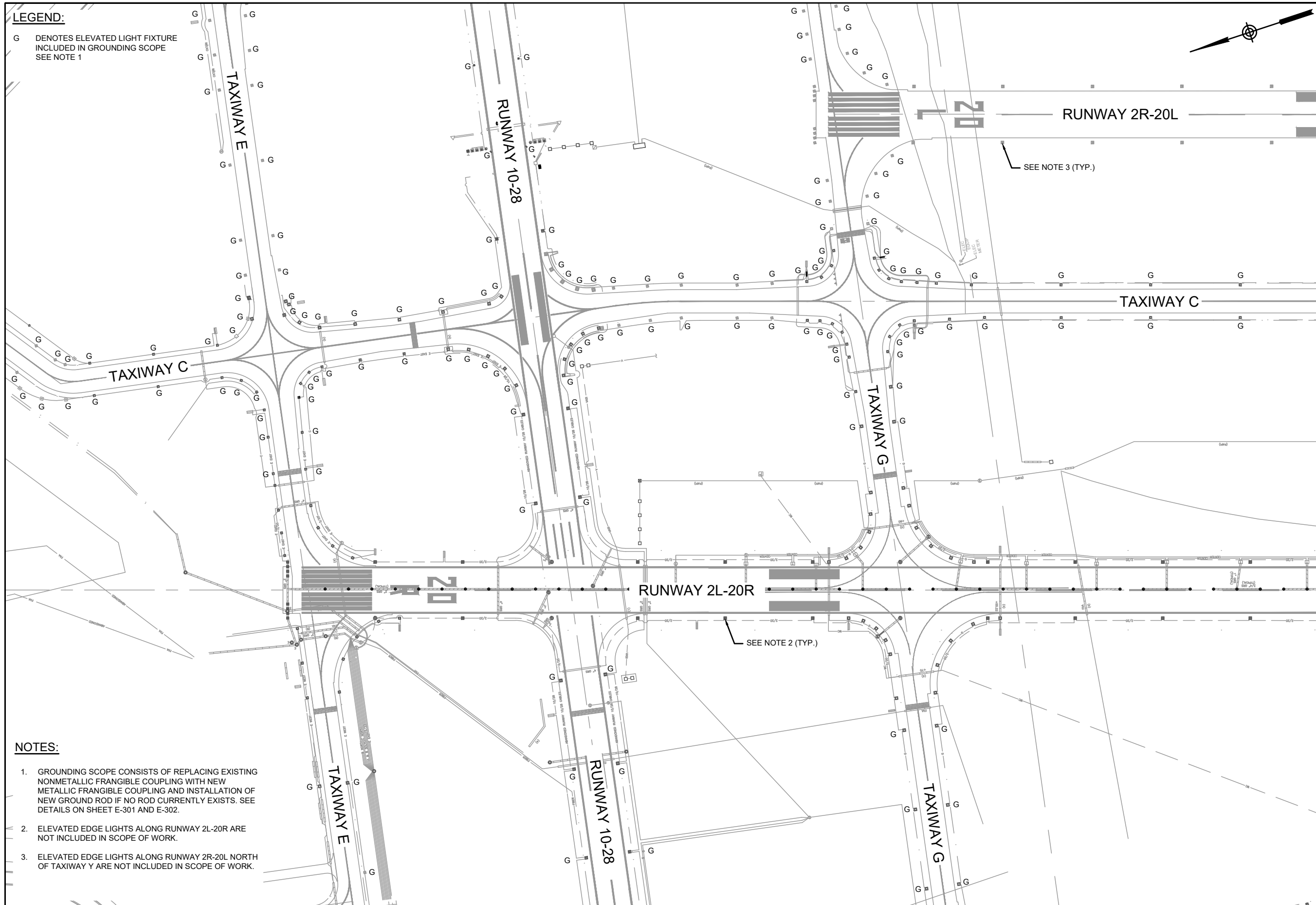




MATCH LINE E-210

LEGEND:

G DENOTES ELEVATED LIGHT FIXTURE INCLUDED IN GROUNDING SCOPE SEE NOTE 1



NOTES:

- GROUNDING SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS. SEE DETAILS ON SHEET E-301 AND E-302.
- ELEVATED EDGE LIGHTS ALONG RUNWAY 2L-20R ARE NOT INCLUDED IN SCOPE OF WORK.
- ELEVATED EDGE LIGHTS ALONG RUNWAY 2R-20L NORTH OF TAXIWAY Y ARE NOT INCLUDED IN SCOPE OF WORK.

MATCH LINE E-206



NO.	DATE	DR	MPK	CHK	REVISION	BY	APVD	XXXX

8735 W. HIGGINS ROAD  
SUITE 400  
CHICAGO, IL 60631

ELEVATED FIXTURE GROUNDING UPDATES  
DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

**ch2m**

AIRFIELD ELECTRICAL  
LAYOUT PLAN  
-2-

1" = 100'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	03/10/2021
PROJ	DPA-4802
DWG	E-203
SHEET	23 of 32

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MATCH LINE E-203

**LEGEND:**

G DENOTES ELEVATED LIGHT FIXTURE INCLUDED IN GROUNDING SCOPE SEE NOTE 1



MATCH LINE E-208

MATCH LINE E-204

MATCH LINE E-207

**NOTES:**

- GROUNDING SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS. SEE DETAILS ON SHEET E-301 AND E-302.



NO.	DATE	DR	MPK	CHK	REVISION	BY	APVD	XXXX

8735 W. HIGGINS ROAD  
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ELEVATED FIXTURE GROUNDING UPDATES  
DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

**ch2m**

AIRFIELD ELECTRICAL  
LAYOUT PLAN  
-5-

1" = 100'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE - 03/10/2021  
PROJ - DPA-4802  
DWG - E-206  
SHEET 26 of 32

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100% SUBMITTAL





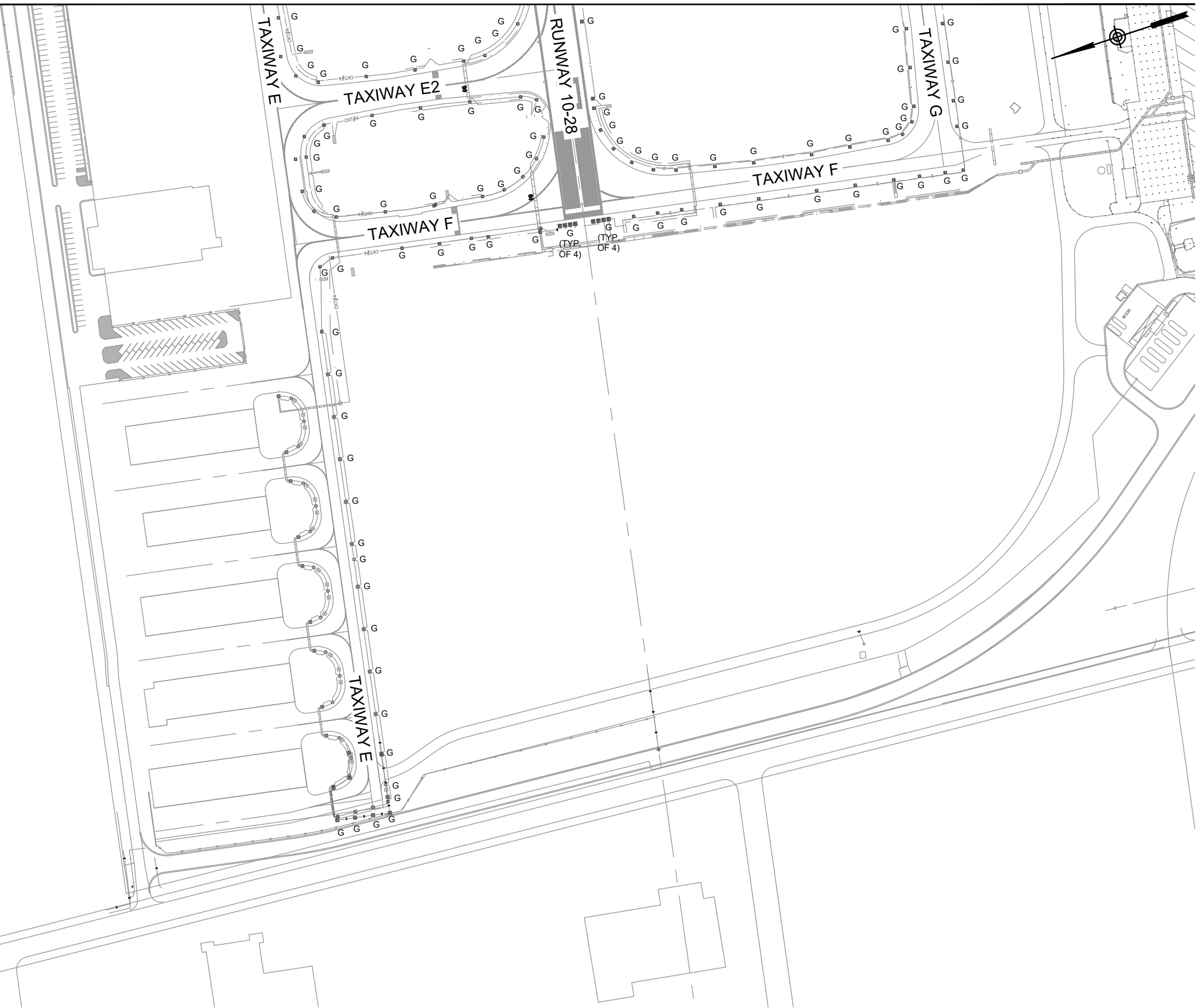
MATCH LINE E-206

**LEGEND:**

G DENOTES ELEVATED LIGHT FIXTURE INCLUDED IN GROUNDING SCOPE  
SEE NOTE 1

**NOTES:**

- GROUNDING SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS. SEE DETAILS ON SHEET E-301 AND E-302.



NO.	DATE	DR	MPK	CHK	REVISION	BY	APVD	XXXX

8735 W. HIGGINS ROAD  
SUITE 400  
CHICAGO, IL 60631

ELEVATED FIXTURE GROUNDING UPDATES  
DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

**ch2m**

AIRFIELD ELECTRICAL  
LAYOUT PLAN  
-7-

1" = 100'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE - 03/10/2021  
PROJ - DPA-4802  
DWG - E-208  
SHEET 28 of 32

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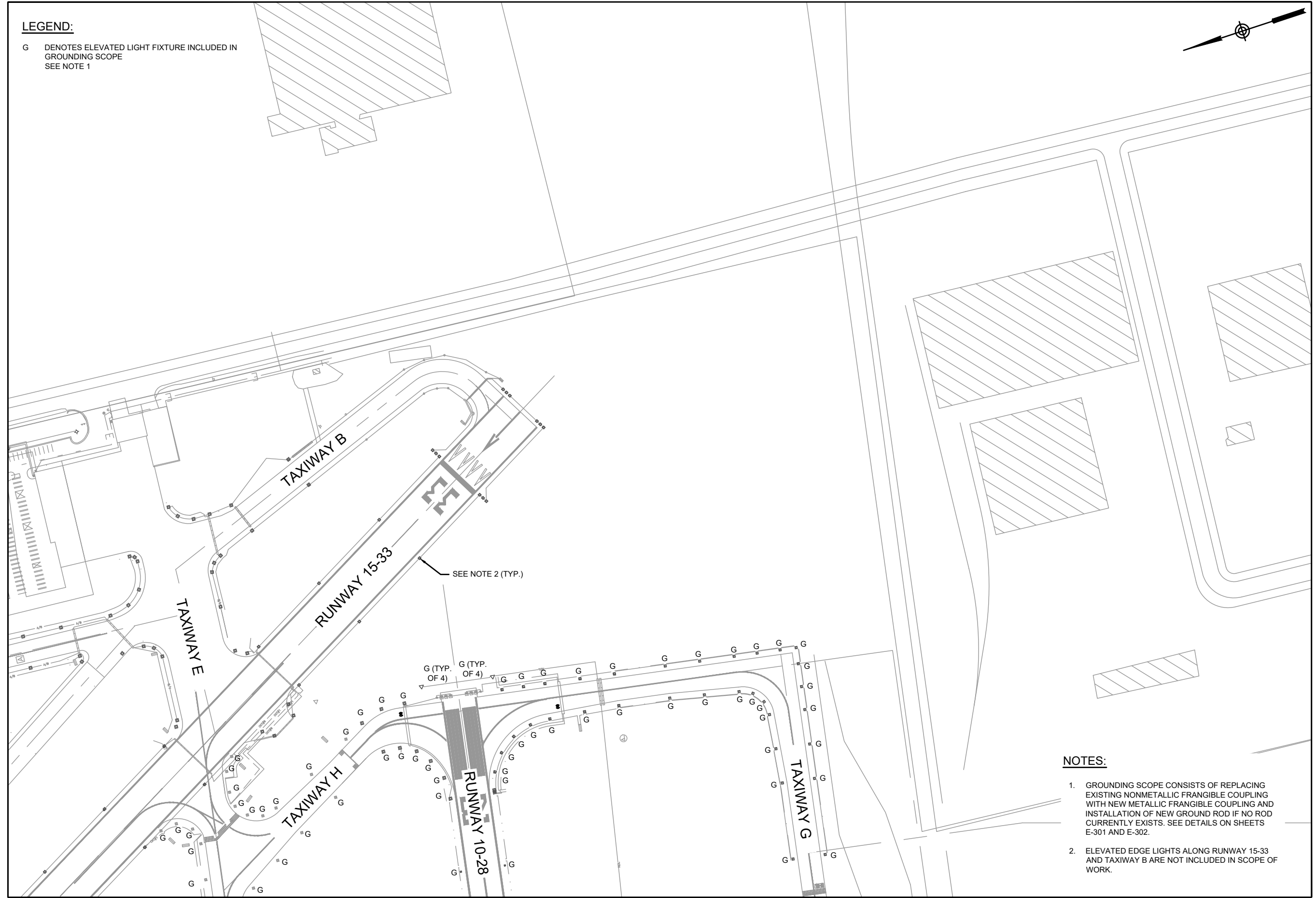
**LEGEND:**

G DENOTES ELEVATED LIGHT FIXTURE INCLUDED IN GROUNDING SCOPE SEE NOTE 1



MATCH LINE E-209

MATCH LINE E-207



MATCH LINE E-203

**NOTES:**

- GROUNDING SCOPE CONSISTS OF REPLACING EXISTING NONMETALLIC FRANGIBLE COUPLING WITH NEW METALLIC FRANGIBLE COUPLING AND INSTALLATION OF NEW GROUND ROD IF NO ROD CURRENTLY EXISTS. SEE DETAILS ON SHEETS E-301 AND E-302.
- ELEVATED EDGE LIGHTS ALONG RUNWAY 15-33 AND TAXIWAY B ARE NOT INCLUDED IN SCOPE OF WORK.



NO.	DATE	DR	MPK	CHK	REVISION	APVD	TMM

8735 W. HIGGINS ROAD  
SUITE 400  
CHICAGO, IL 60631

ELEVATED FIXTURE GROUNDING UPDATES  
DPA-4802  
DUPAGE AIRPORT  
WEST CHICAGO, IL

**ch2m**

AIRFIELD ELECTRICAL  
LAYOUT PLAN  
-9-

1" = 100'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	-	03/05/2021
PROJ	-	DPA-4802
DWG	-	E-210
SHEET	30	of 32

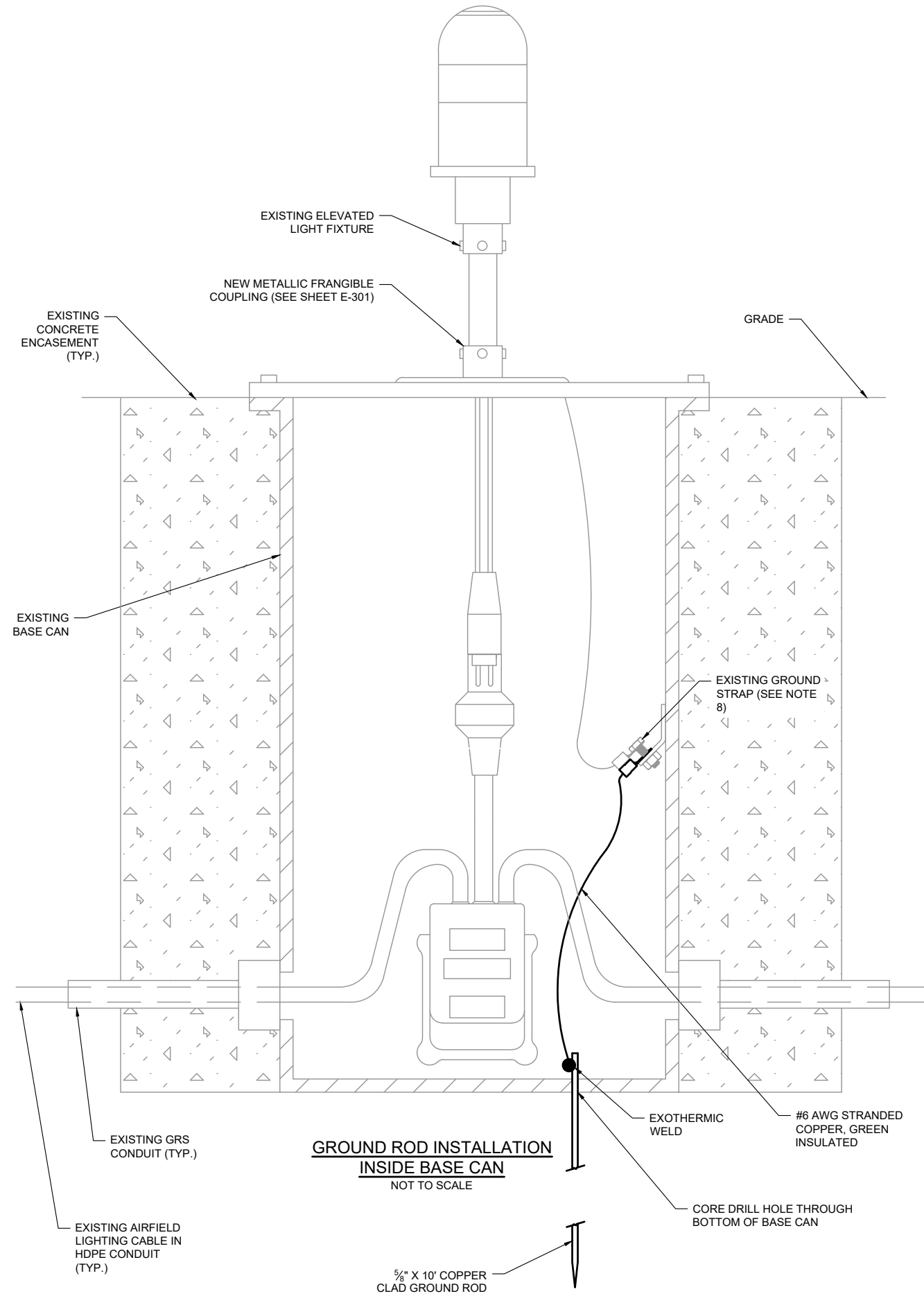
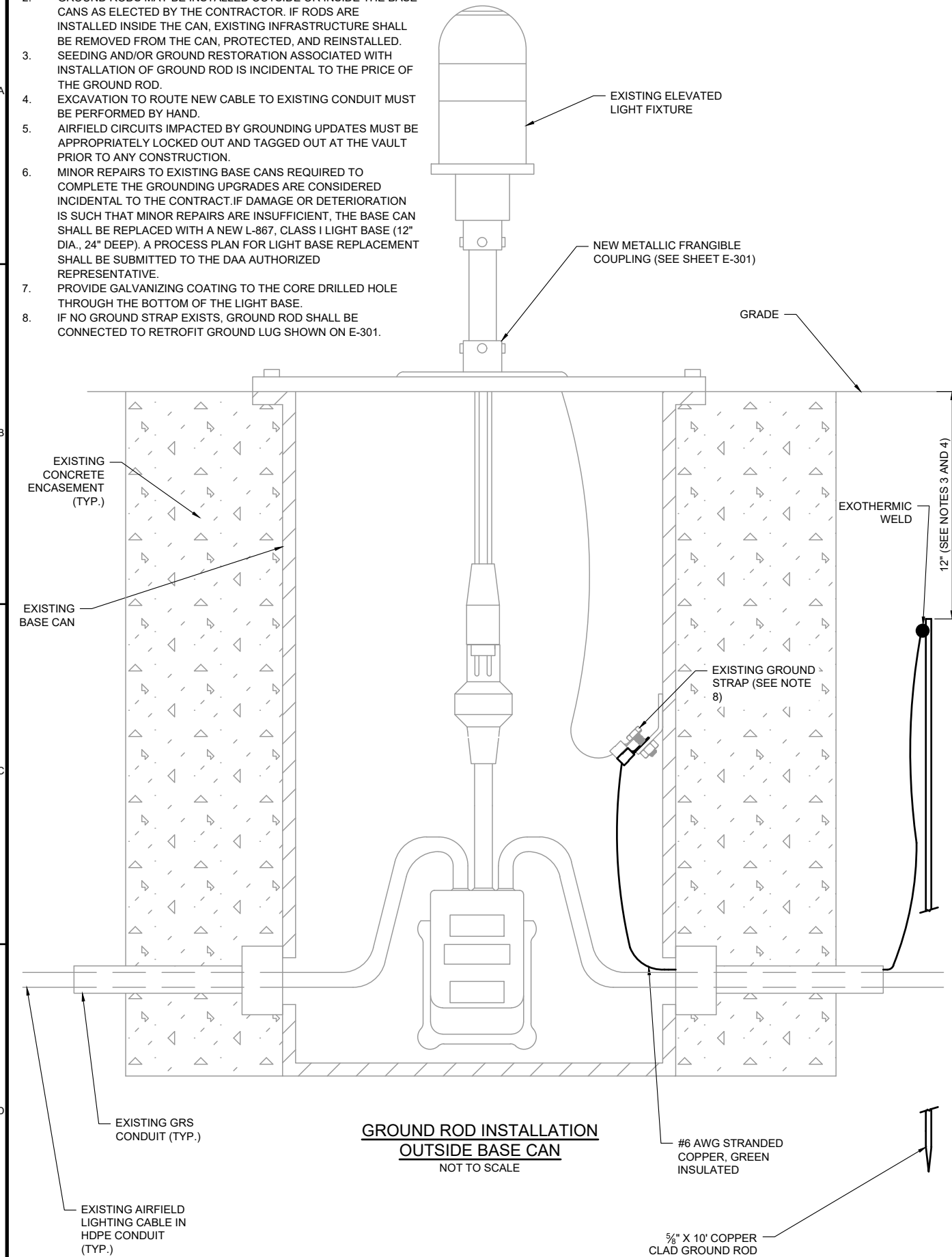
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**NOTES**

1. DETAILS ON THIS SHEET APPLY ONLY TO ELEVATED LIGHT FIXTURES IN GROUNDING SCOPE THAT ARE FOUND NOT TO HAVE AN EXISTING GROUND ROD CONNECTION.
2. GROUND RODS MAY BE INSTALLED OUTSIDE OR INSIDE THE BASE CANS AS ELECTED BY THE CONTRACTOR. IF RODS ARE INSTALLED INSIDE THE CAN, EXISTING INFRASTRUCTURE SHALL BE REMOVED FROM THE CAN, PROTECTED, AND REINSTALLED.
3. SEEDING AND/OR GROUND RESTORATION ASSOCIATED WITH INSTALLATION OF GROUND ROD IS INCIDENTAL TO THE PRICE OF THE GROUND ROD.
4. EXCAVATION TO ROUTE NEW CABLE TO EXISTING CONDUIT MUST BE PERFORMED BY HAND.
5. AIRFIELD CIRCUITS IMPACTED BY GROUNDING UPDATES MUST BE APPROPRIATELY LOCKED OUT AND TAGGED OUT AT THE VAULT PRIOR TO ANY CONSTRUCTION.
6. MINOR REPAIRS TO EXISTING BASE CANS REQUIRED TO COMPLETE THE GROUNDING UPGRADES ARE CONSIDERED INCIDENTAL TO THE CONTRACT. IF DAMAGE OR DETERIORATION IS SUCH THAT MINOR REPAIRS ARE INSUFFICIENT, THE BASE CAN SHALL BE REPLACED WITH A NEW L-867, CLASS I LIGHT BASE (12" DIA., 24" DEEP). A PROCESS PLAN FOR LIGHT BASE REPLACEMENT SHALL BE SUBMITTED TO THE DAA AUTHORIZED REPRESENTATIVE.
7. PROVIDE GALVANIZING COATING TO THE CORE DRILLED HOLE THROUGH THE BOTTOM OF THE LIGHT BASE.
8. IF NO GROUND STRAP EXISTS, GROUND ROD SHALL BE CONNECTED TO RETROFIT GROUND LUG SHOWN ON E-301.



NO.	DATE	DR	MPK	CHK	APVD	XXXX

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**ch2m**

**ELECTRICAL DETAILS**  
-2-

N.T.S.  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	03/10/2021
PROJ	DPA-4802
DWG	E-302
SHEET	32 of 32