

ELECTRICAL NOTES (CONT.):

- SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 26.2. CONTRACTOR CONSTRUCTION EQUIPMENT SHALL BE STORED IN THE DESIGNATED CONTRACTOR'S OPERATIONS AND STAGING AREA, WHICH SHALL BE THE FENCED PARKING LOT AREA ADJACENT TO NEW ALV LOCATION.
27. JOB SITE MAINTENANCE, CONDITIONS, AND SAFETY:
- 27.1. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 27.2. APPROVED OPEN TRENCHES AND EXCAVATIONS ON AIRPORT PROPERTY SHALL BE PROPERLY BARRICADED WITH LIGHTED ADR APPROVED BARRICADES AND TEMPORARY FENCING, OR WITH TRENCH PLATES, AS DIRECTED BY THE ADR.
- 27.3. THE CONTRACTOR SHALL CONDUCT A SAFETY MEETING PRIOR TO THE START OF EACH SHIFT DISCUSSING, AT A MINIMUM ALL TOPICS SPECIFIED BY THE ADR AND CONFORMING TO CALIFORNIA BUILDING/OSHA CODES AND REGULATIONS.
- 27.4. THROUGHOUT THE CONSTRUCTION PROCESS THE FOLLOWING SAFETY AND OPERATIONAL PRACTICES SHALL BE OBSERVED:
- E. OPERATIONAL SAFETY WILL BE A STANDING AGENDA ITEM DURING WEEKLY SAFETY AND PROGRESS MEETINGS.
- F. THE CONTRACTOR SHALL PERFORM DAILY WORKSITE INSPECTIONS.
- G. COMPLIANCE WITH OSHA REQUIREMENTS FOR SAFETY AND PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE TASK, AS DEFINED BY OSHA.
- H. ALL CONTRACTOR VEHICLES AND TRAFFIC SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES.
- I. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DESIGNATED CONSTRUCTION STAGING LOCATIONS, STORAGE AREAS, AND CONSTRUCTION SEQUENCING.
- J. POST SIGNAGE ADJACENT TO GATE THAT TOBACCO SMOKING IS PROHIBITED WITHIN 25' OF THE FACILITY.
- K. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES, WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.
- L. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE OWNER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- M. CONTRACTOR SHALL PROVIDE TEMPORARY ON-SITE TOILET FACILITIES AND HAND-WASHING FACILITIES AS REQUIRED.
- N. NO STOCKPILED MATERIAL IS ALLOWED ON PROPERTY (UNLESS APPROVED BY THE ADR). ALL SPOILS SHALL BE REMOVED FROM JOB SITE.
- O. CONTRACTOR SHALL KEEP WORK AND ADJACENT AREAS CLEAN AT ALL TIMES. ALL RUBBISH AND DEBRIS RESULTING FROM WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AS NEEDED THROUGHOUT THE DAY AND A MINIMUM OF ONCE DAILY. THE USE OF A WATER, VACUUM SWEEPER SHALL BE EMPLOYED DURING WORKING HOURS. WORK ON CONTRACTOR'S EQUIPMENT, REPAIRS, CLEANING, FUELING, ETC. SHALL COMPLY WITH THE BEST MANAGEMENT PRACTICES ACCORDING TO EITHER THE APPROVED SWPPP PROVIDED BY THE CONTRACTOR OR THE AUTHORITY'S GENERAL STORMWATER PERMIT.
- P. 5.5 THE CONTRACTOR MUST COMPLY WITH THE MOST RECENT UPDATES AND MANDATES AS ISSUED EITHER BY THE HUMBOLDT COUNTY DEPARTMENT OF PUBLIC HEALTH OR THE STATE OF CALIFORNIA, WHICHEVER IS MORE STRINGENT.
28. TRENCHING AND EXCAVATION:
- Q. CONTRACTOR SHALL FIELD VERIFY PATH AND LOCATION WITH THE ADR PRIOR TO TRENCHING AND/OR DIGGING.
- R. CONTRACTOR MUST CONTACT DIG ALERT TWO WORKING DAYS BEFORE START OF CONSTRUCTION AND, UNLESS OTHERWISE SPECIFIED, MAINTAIN ALL UTILITY LINES IN OPERATION. CONTRACTOR MUST COMPLY WITH GUIDELINES FOR RENEWING DIG ALERT STATUS AND PROVIDE EVIDENCE OF SUCH TO THE ADR.
- S. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.
29. CONTRACTOR SHALL OBTAIN AND PAY ALL APPLICABLE PERMITS INCLUDING, BUT NOT LIMITED TO, A HAUL ROUTE PERMIT, IF REQUIRED.
30. CONTRACTOR MUST ALSO OBTAIN A WATER METER FROM THE CITY OF BURBANK FOR ANY HYDRANT USE IF REQUIRED. WITHIN THE CITY OF BURBANK ONLY PURPLE HYDRANTS SHALL BE USED FOR WATER.
31. CONTRACTOR SHALL COORDINATE WITH FAA THROUGH THE AIRPORT ADR.
32. CONTRACTOR SHALL BADGE A MINIMUM OF 6 EMPLOYEES INCLUDING PROJECT MANAGER AND SUPERINTENDENT.
33. LOCATION OF HAUL ROUTES ON THE AIRPORT SITE SHALL BE AS SPECIFIED WITHIN THIS DRAWING SET OR AS APPROVED BY THE ADR. 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 HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF THE ON-SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE CONTRACTOR AND THE ADR. FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE APPROVED BY THE ADR PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE HAUL ROUTES RESULTING FROM CONSTRUCTION ACTIVITY, INCLUDING STRIPING.
34. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE GENERAL NATURE OF ORIGINAL GROUND AND/OR THE EXISTING GRADES IN THE VICINITY OF THE PROPOSED CONSTRUCTION AREA PRIOR TO BIDDING.
35. THE CONTRACTOR SHALL FURNISH ALL PLANT, LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THIS PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. THE PROJECT PAY ITEMS ARE INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK TO COMPLETE THE PROJECT SHALL BE INCLUDED IN THE COST OF PERFORMING THE VARIOUS ITEMS OF WORK.
36. THE CONTRACTOR SHALL PROVIDE AND APPLY DUST CONTROL AT ALL TIMES, AS REQUIRED, TO ABATE NUISANCE DUST WHICH IS A DIRECT RESULT OF CONSTRUCTION ACTIVITIES ON AND ABOUT THE CONSTRUCTION AREA.
37. FOR WORK INSIDE THE AOA, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FAA ADVISORY CIRCULAR'S (LATEST EDITIONS) AND RELATED MATERIALS. PARTICULAR ATTENTION TO BE APPLIED TO THE FOLLOWING LIST OF AC'S:
- T. 250/5200-18C "AIRPORT SAFETY SELF INSPECTION"
- U. 150/5210-5D "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
- V. 150/5210-24 "AIRPORT FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT"
- W. 150/5370-2G "OPERATIONAL SAFETY ON AIRPORT'S DURING CONSTRUCTION"
- X. 150/5370-13A "OFF-PEAK CONSTRUCTION OF AIRPORT PAVEMENTS USING HOT-MIX ASPHALT"
38. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MANUAL UNIFORM TRAFFIC CONTROL DEVICE (WWW.MUTC.DINFO)
39. THE CONTRACTOR SHALL PROTECT-IN-PLACE ALL FEATURES LOCATED WITHIN THE CONSTRUCTION AREAS, UNLESS OTHERWISE NOTED. THE CONTRACTOR MAY, AT ITS OWN EXPENSE AND WRITTEN APPROVAL OF THE ADR, REMOVE FEATURES OR ADDITIONAL PAVEMENT BEYOND REPAIR LIMITS TO ASSIST CONSTRUCTION. ALL HARDSCAPE DAMAGED BY CONSTRUCTION MUST BE REPLACED IN KIND.
40. DISCREPANCIES AND ORDER OF PRECEDENCE:
- Y. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD AND, IN THE EVENT OF DISCREPANCY, REPORT SUCH DISCREPANCY TO THE ADR.
- Z. DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS OR PLANS SHALL GOVERN OVER SMALL SCALE DETAILS OR PLANS. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE

- NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
- AA. CHECK ALL DIMENSIONS ON EACH DISCIPLINE DRAWINGS SUCH AS STRUCTURAL AND ELECTRICAL AGAINST ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PENETRATIONS IN THE STRUCTURE FOR THE PROPER INSTALLATION OF THE WORK. REFER TO STRUCTURAL DRAWINGS FOR SECONDARY FRAMING AND OR REINFORCING REQUIRED AT PENETRATIONS IN STEEL, CONCRETE OR MASONRY. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ADR. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED.
- AB. THE CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE DESIGN PROFESSIONALS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE ADR OF ANY CONFLICTS BETWEEN THE DRAWINGS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
41. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CALIFORNIA STATE WATER RESOURCES CONTROL BOARD ORDER NO 2009-009-DWQ (AS AMENDED BY ORDER NO. 2010-0014-DWQ); NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PREVENTION PLAN (SWPPP) FOR CONSTRUCTION ACTIVITIES PREPARED BY THE AIRPORT AUTHORITY.
42. FOR SMALL CONSTRUCTION PROJECTS OR PROJECTS DISTURBING LESS THAN ONE ACRE OF SOIL, PROVIDE A PLAN THAT DEMONSTRATES, AT A MINIMUM, THE INSTALLATION AND MAINTENANCE OF THE APPROPRIATE BMPS FOR THE SPECIFIC WORK BEING PERFORMED. THESE MEASURES SHALL BE CONTINUOUS THROUGHOUT THE PROJECT WHERE THE TYPE OF WORK REQUIRES IT. BASED ON THE PROJECT SCOPE, THE MINIMUM BMPS SHOULD INCLUDE DETAILS ON THE IMPLEMENTATION AND DEPLOYMENT OF THE FOLLOWING TYPES: TEMPORARY SOIL STABILIZATION, TEMPORARY SEDIMENT CONTROL, WIND EROSION CONTROL, TRACKING CONTROL, NON-STORMWATER MANAGEMENT, WASTE MANAGEMENT AND MATERIAL POLLUTION CONTROL. AT THE DISCRETION OF THE ADR, THE CONTRACTOR MAY BE REQUIRED TO INCREASE THE LEVEL OF BMPS DURING THE COURSE OF THE WORK. THE ADR RESERVES THE RIGHT TO STOP THE CONTRACTOR'S WORK SHOULD THE NECESSARY BMPS NOT SUFFICIENTLY BE IN PLACE AND/OR MAINTAINED.
43. THE CONTRACTOR SHALL COMPLY WITH THE AIRPORT'S "CLEAN CONSTRUCTION PROGRAM. REFER TO CONTRACT GENERAL CONDITIONS FOR ADDITIONAL INFORMATION.
44. FUEL SUPPORT: ANY TYPE OF FUELING SUPPORT FACILITY OR DEVICE USED TO REFUEL CONSTRUCTION EQUIPMENT IS SUBJECT TO SAFETY INSPECTION. LOCAL FIRE CODES AND SAFETY STANDARDS SHALL BE MET PRIOR TO COMMENCEMENT OF WORK. NO FUELING IS PERMITTED WITHIN THE AOA.
45. ALL WORK IS NEW UNLESS INDICATED AS EXISTING.
46. ANY WORK PERFORMED WITHOUT WRITTEN APPROVAL OF THE ADR AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
47. EMERGENCY VEHICLES SHALL HAVE THE RIGHT-OF-WAY AT ALL TIMES. DURING ANY EMERGENCY (FIRE FIGHTING, RESCUE, MEDICAL TRANSPORT, ETC.) THE CONTRACTOR MAY BE INSTRUCTED TO CEASE WORK OR VACATE SPECIFIC AREAS OF THE AIRPORT. ANY DELAYS CAUSED BY ORDERED CESSATION OF WORK SHALL BE GROUNDS FOR TIME EXTENSIONS, AS APPROVED BY THE ADR.
48. EQUIPMENT AND MATERIAL:
- AC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MANUFACTURER'S RECOMMENDED MAINTENANCE PROCEDURES AND SCHEDULES TO OWNER.
- AD. ANY MANUFACTURER'S OR BRAND NAME PRODUCTS INDICATED OR SPECIFIED ARE DONE SO TO ESTABLISH A MINIMUM LEVEL OF QUALITY.
- AE. THE CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE IS PROVIDED AS REQUIRED TO ENSURE EASE OF INSTALLATION.
- AF. PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS, WHERE REQUIRED.
- AG. ANY APPLIANCE REGULATED BY THE APPLIANCE EFFICIENCY REGULATIONS, TITLE 20 CALIFORNIA CODE OF REGULATIONS, SECTION 1601 ET SEQ., MAY BE INSTALLED ONLY IF THE APPLIANCE FULLY COMPLIES WITH SECTION 1608(A) OF THOSE REGULATIONS. [110.1(A)].
- AH. SPACE CONDITIONING SYSTEMS SHALL MEET THE EFFICIENCY STANDARDS SPECIFIED SECTION 120.2.
- AI. EXTERIOR DOORS SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING: 0.3 CFM/FT² OF NONRESIDENTIAL SINGLE DOOR AREA, AND 1.0 CFM/FT² OF NONRESIDENTIAL DOUBLE DOOR AREA. [110.6(A)1].
- AJ. INSULATION SHALL BE CERTIFIED BY DEPARTMENT OF CONSUMER AFFAIRS, BUREAU OF HOME FURNISHING AND THERMAL INSULATION THAT THE INSULATION CONDUCTIVE THERMAL PERFORMANCE IS APPROVED PURSUANT TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12, CHAPTER 12-13, ARTICLE 3, "STANDARDS FOR INSULATING MATERIAL." [110.8(A)].
- AK. INSULATING MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CBC. [110.8(C)].
49. ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL INDUSTRY STANDARDS. DETAILS ARE PROVIDED TO INDICATE MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCTION. IF A CONDITION IS NOT SPECIFICALLY DETAILED, SUBMIT A SIMILAR DETAIL FOR GUIDE AND APPROVAL.
50. ALL WORK MUST BE OF GOOD QUALITY, FREE FROM DEFECTS, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
51. PROVIDE ALL HVAC, PLUMBING, GAS OR ELECTRIC SERVICE CONNECTIONS TO CASEWORK, FIXTURES, SIGNAGE, OR EQUIPMENT INDICATED (WHETHER UNITS ARE INSTALLED BY CONTRACTOR OR BY OTHERS).
52. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
53. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THE INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
54. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH ABBREVIATIONS ON DRAWINGS E003.
- 55.
56. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE. CONTRACTOR TO PROVIDE WASTE MANAGEMENT PLAN.
57. REFER TO THE SPECIFICATIONS FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER. CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES AND SUPPORTING BRACKETS FOR ALL CONDITIONS WHERE PANELING, CASEWORK, EQUIPMENT AND DEVICES ARE ATTACHED TO A WALL FOR SUPPORT.
58. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONDITIONS. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
59. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.



20 EXECUTIVE PARK, SUITE 155, IRVINE, CA 92614
PHONE: 949-502-9687
WWW.LEANCORP.COM



www.armstrongplanning.com

CALIFORNIA REDWOOD COAST
HUMBOLDT COUNTY AIRPORT
MCKINLEYVILLE, CA
TWY A LIGHTING AND VAULT REHAB
AIP No. 3-06-0010-053-2022

No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
Approved: DL

**AIRFIELD
ELECTRICAL
NOTES 2 OF 2**

Sheet: **E0.02**

ABBREVIATIONS

A	AMPERE	MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM
ACAMS	ACCESS CONTROL AND MONITORING SYSTEM	MFG	MANUFACTURER
ADR	AIRPORT DESIGNATED REPRESENTATIVE	MH	MANHOLE
AF	AMPERE FRAME, AMPERE FUSE	MLO	MAIN LUG ONLY PANEL
AFF	ABOVE FINISHED FLOOR	MM	MIDDLE MARKER, MULTIMODE
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
AFL	AIRFIELD LIGHTING		
ALCMS	AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM	(N),N	NEW
ALV	AIRFIELD LIGHTING VAULT	N/A	NOT APPLICABLE
AS	AMPERE SWITCH	NEC	NATIONAL ELECTRICAL CODE
ASC	AVAILABLE SHORT CIRCUIT	NF	NON FUSED
ASDE	AIRPORT SURFACE DETECTION EQUIPMENT	NIC	NOT IN CONTRACT
ASOS	AIRPORT SURFACE OBSERVATION SYSTEM	NTS	NOT TO SCALE
ASR	AIRPORT SURVEILLANCE RADAR	OCC	OPTICAL CABLE CORP.
AT	AMPERE TRIP	OD	OUTSIDE DIAMETER
ATCT	AIR TRAFFIC CONTROL TOWER	OFL	OPTICAL FIBER LOSS (dB/KM)
ATS	AUTOMATIC TRANSFER SWITCH	OFNR	OPTICAL FIBER NON-CONDUCTIVE RISER CABLE
		OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
BLDG	BUILDING		
BOB	BREAK OUT BOX CONDUIT		
		P	POLE
		(P)	PROPOSED
CANDM	CONSTRUCTION AND MAINTENANCE	PAPI	PRECISION APPROACH PATH INDICATOR
CB, C/B	CIRCUIT BREAKER	PB	PULL BOX
CCD	CHARGED COUPLED DEVICE	PCC	PORTLAND CEMENT CONCRETE
CCR	CONSTANT CURRENT REGULATOR	PE	POLYETHYLENE CABLE JACKET
CCTV	CLOSED CIRCUIT TELEVISION	Ø, PH	PHASE
CKT	CIRCUIT	PNL	PANEL PROVIDE FURNISH, INSTALL, CONNECT.
CONN	CONNECTION, CONNECT		
CO	CONDUIT ONLY W/PULL WIRE	PTT	TEST AND PUT INTO OPERATION
CU	COPPER	RACAL CARD I.D.	RACAL CARD PART NUMBER, RACAL 5000
		PWR	POWER
DWG	DRAWING	PVC	POLYVINYL CHLORIDE CONDUIT
D/U	DISTRIBUTION BOX	PVMT	PAVEMENT
DME	DISTANCE MEASURING EQUIPMENT		
		(Q)	REMOVE
(E),E	EXISTING, EXIST	RDRS	RUNWAY DISTANCE REMAINING SIGN
EIA	ELECTRONIC INDUSTRY ALLIANCE	RECP	RECEPTACLE
EMERG	EMERGENCY	RE	RELOCATED
ELEC	ELECTRIC	REF	REFERENCE, REFER
		REL	RUNWAY ENTRANCE LIGHT
(F)	FUTURE	RELOC	RELOCATE
FAA	FEDERAL AVIATION ADMINISTRATION	REOD	REQUIRED
FDR	FEEDER	RF	RADIO FREQUENCY
FDU	FIBER DISTRIBUTION UNIT	RM	ROOM
FFM	FAR FIELD MONITOR	RLIM	RUNWAY LIGHT INTENSITY MONITOR
FIXT	FIXTURE	RGS	RIGID GALVANIZED STEEL
FLA	FULL LOAD AMPS	RSA	RUNWAY SAFETY AREA
FLEX	FLEXIBLE	RSC	RIGID STEEL CONDUIT
		RVR	RUNWAY VISUAL RANGE
G, GND	GROUND	RWY	RUNWAY
GEN	GENERATOR	RWSL	RUNWAY STATUS LIGHT
GRC	GALVANIZED RIGID CONDUIT	RX	RELOCATED LOCATION
GRS	GALVANIZED RIGID STEEL		
GRSC	GALVANIZED RIGID STEEL CONDUIT	SM	SINGLE MODE
GS	GLIDE SLOPE	SMFO	SINGLE MODE FIBER OPTIC
GRN	GREEN	SWBD	SWITCHBOARD
		SWGR	SWITCHGEAR
HDPE	HIGH DENSITY POLYETHYLENE	TEL	TELEPHONE
HH	HAND HOLE	THL	TAKEOFF HOLD LIGHT
HV	HIGH VOLTAGE	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
		TWY	TAXIWAY
ILC	INDIVIDUAL LIGHT CONTROL	TYP	TYPICAL
ILS	INSTRUMENT LANDING SYSTEM		
IM	INFORMATION TECHNOLOGY DIVISION	UON	UNLESS OTHERWISE NOTED
ITD	INNER MARKER	UG	UNDERGROUND
		UL	UNDERWRITERS LABORATORIES
JB	JUNCTION BOX		
JC	JUNCTION CAN	V	VOLTAGE, VOLTS
JCT	JUNCTION	VA	VOLT-AMPERES
JETA	JET AVIATION FUEL LINE	VFR	VISUAL FLIGHT RULES
KVA	KILOVOLT AMPERES	V-NET	VIDEO NETWORK
KW	KILOWATT		
		W	WIRE, WATTS
LOC	LOCALIZER	W/	WITH
LLWAS	LOW LEVEL WIND ADVISORY SYSTEM	WP	WEATHER PROOF
LST	CORNING STYLE P/N (PART OF CORNING P/N)		
LTS	LIGHTS		
LTG	LIGHTING		



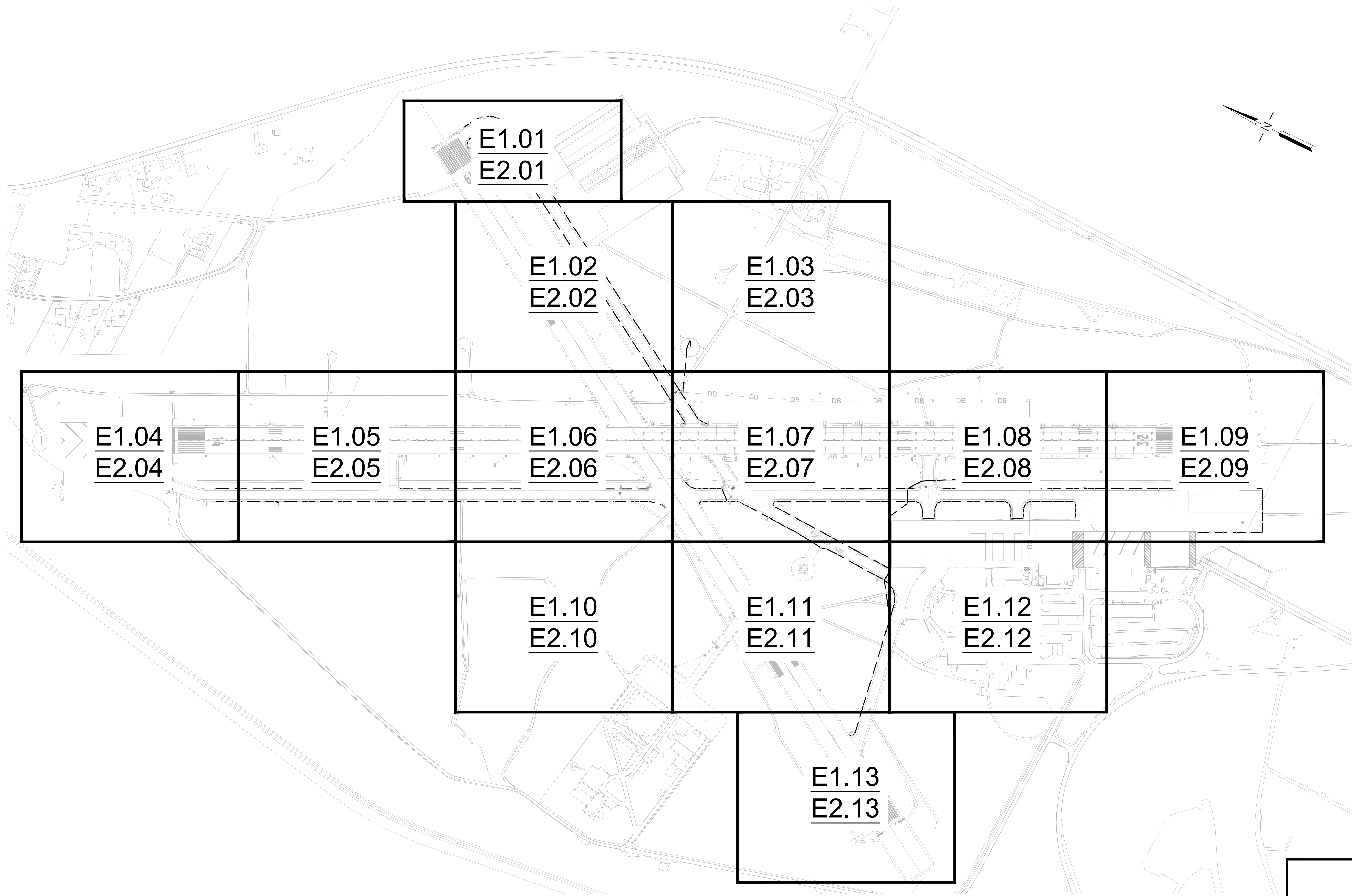
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ABBREVIATIONS



E1.01
E2.01

E1.02
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E1.03
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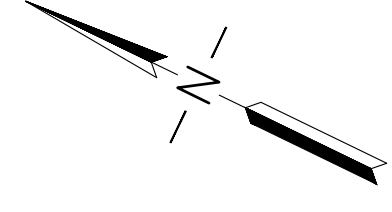
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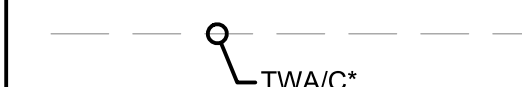
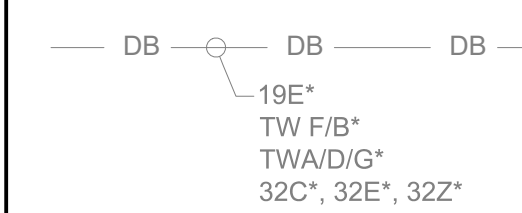
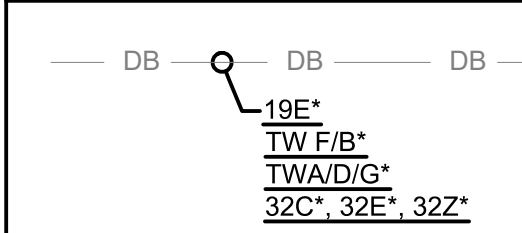
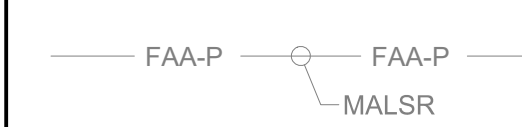

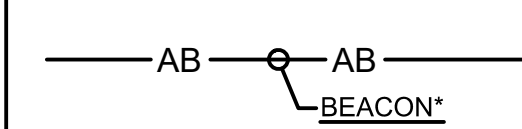
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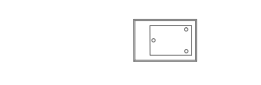





Drawn: SL
Checked: KV
Approved: DL

**OVERALL
PLAN**

Sheet: **E0.05**

DEMO ELECTRICAL LEGEND (FOR SHEETS E1.01 THRU E1.13)

CONDUITS/CABLES	DESCRIPTION
	EXISTING AIRFIELD LIGHTING CONDUIT & CABLE TO REMAIN. "TWA/C" DENOTES CIRCUIT ID.*** DENOTES 2-CONDUCTORS.
	EXISTING AIRFIELD LIGHTING CABLE TO BE REMOVED. CONDUIT TO REMAIN. "TWA/C" DENOTES CIRCUIT ID.*** DENOTES 2-CONDUCTORS.
	EXISTING AIRFIELD LIGHTING DUCTBANK AND CABLES TO REMAIN. *** DENOTES 2-CONDUCTORS.
	EXISTING AIRFIELD LIGHTING CABLE TO BE REMOVED FROM EXISTING DUCTBANK. AIRFIELD LIGHTING DUCTBANK TO REMAIN. *** DENOTES 2-CONDUCTORS.
	EXISTING MALS R CONDUIT & CABLE TO REMAIN. "MALS R" DENOTES CIRCUIT ID.
	EXISTING FAA CONDUIT & CABLE TO REMAIN.
	EXISTING CABLE TO BE REMOVED AND CONDUIT TO BE ABANDONED. "BEACON*" DENOTES CIRCUIT ID AND CABLE TO BE REMOVED. *** DENOTES 2-CONDUCTORS.

LIGHTS	DESCRIPTION
	EXISTING TWY EDGE LIGHT TO REMAIN.
	REMOVE EXISTING TWY EDGE LIGHT, ISOLATION TRANSFORMER AND CABLE. BASE CAN TO REMAIN.
	EXISTING RWY EDGE LIGHT TO REMAIN.
	EXISTING MALS R LIGHT BAR TO REMAIN.
HANDHOLE & STRUCTURE	DESCRIPTION
	EXISTING POWER OR COMMUNICATION HANDHOLE TO REMAIN.
	EXISTING POWER/COMMUNICATION HANDHOLE TO BE ACCESSED FOR REMOVAL OF CABLE, HAND HOLE TO REMAIN.
	EXISTING PAPI TO REMAIN.
	EXISTING JUNCTION BASE CAN TO REMAIN.
	EXISTING REIL TO REMAIN
	EXISTING PRIMARY WINDCONE AND FOUNDATION TO BE REMOVED.
	EXISTING SECONDARY WINDCONE TO BE REMOVED. FOUNDATION TO REMAIN.
	EXISTING BEACON AND FOUNDATION TO BE REMOVED.

SIGN	DESCRIPTION
	EXISTING AIRFIELD SIGN TO REMAIN.
	EXISTING AIRFIELD SIGN TO BE REMOVED. FOUNDATION TO BE REMOVED.
	EXISTING UNLIGHTED AIRFIELD SIGN AND FOUNDATION TO BE REMOVED.
	EXISTING LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN PANEL
	REMOVE LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN PANEL
	EXISTING LIGHTED DIRECTION, DESTINATION, & BOUNDARY SIGN PANEL
	REMOVE LIGHTED DIRECTION, DESTINATION, & BOUNDARY SIGN PANEL
	EXISTING LIGHTED RUNWAY DISTANCE REMAINING SIGN PANEL.
	REMOVE LIGHTED RUNWAY DISTANCE REMAINING SIGN PANEL.
	EXISTING LIGHTED MANDATORY SIGN PANEL
	REMOVE LIGHTED MANDATORY SIGN PANEL
	EXISTING BLANK SIGN PANEL
	REMOVE BLANK SIGN PANEL

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AIP No. 3-06-0010-053-2022

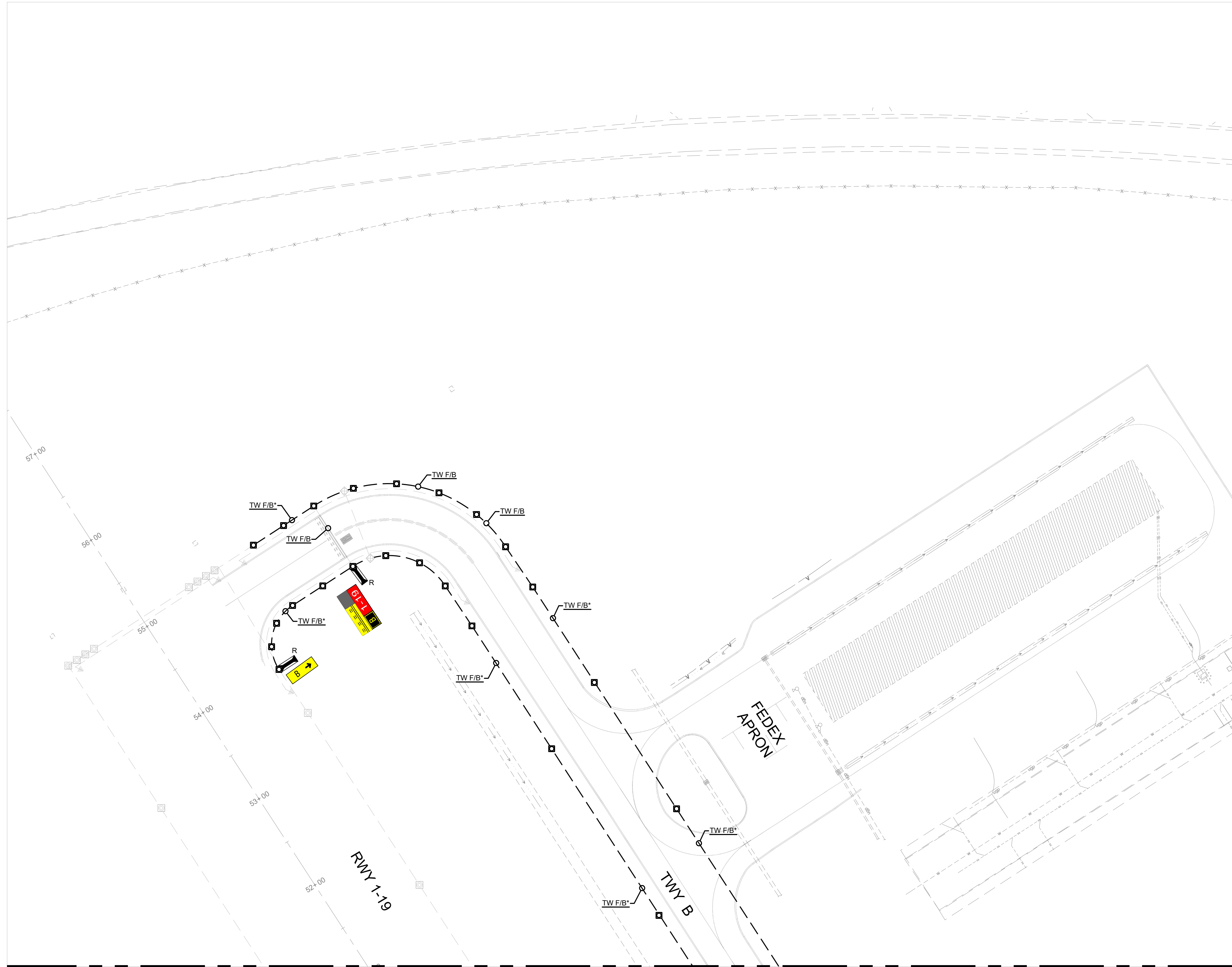
No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

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Checked: JA
Approved: DL

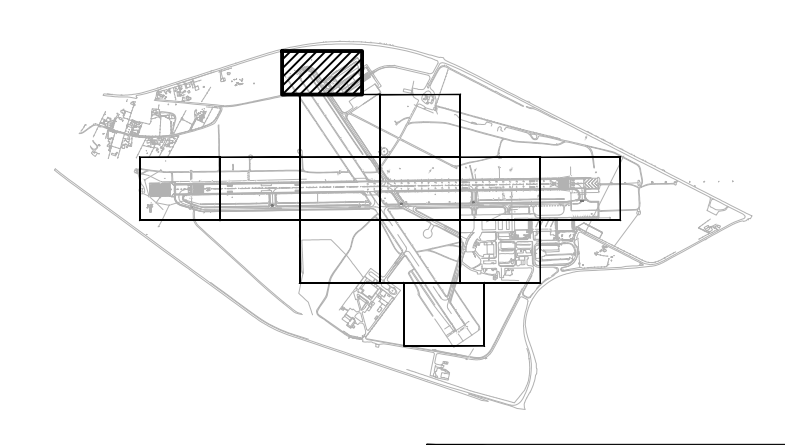
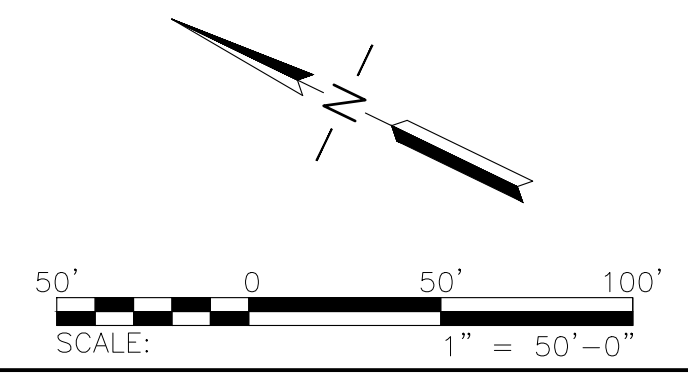
**DEMO
ELECTRICAL
LEGEND**

Sheet: **E1.00**



MATCHLINE, SEE DWG NO E1.02

GENERAL NOTES
 1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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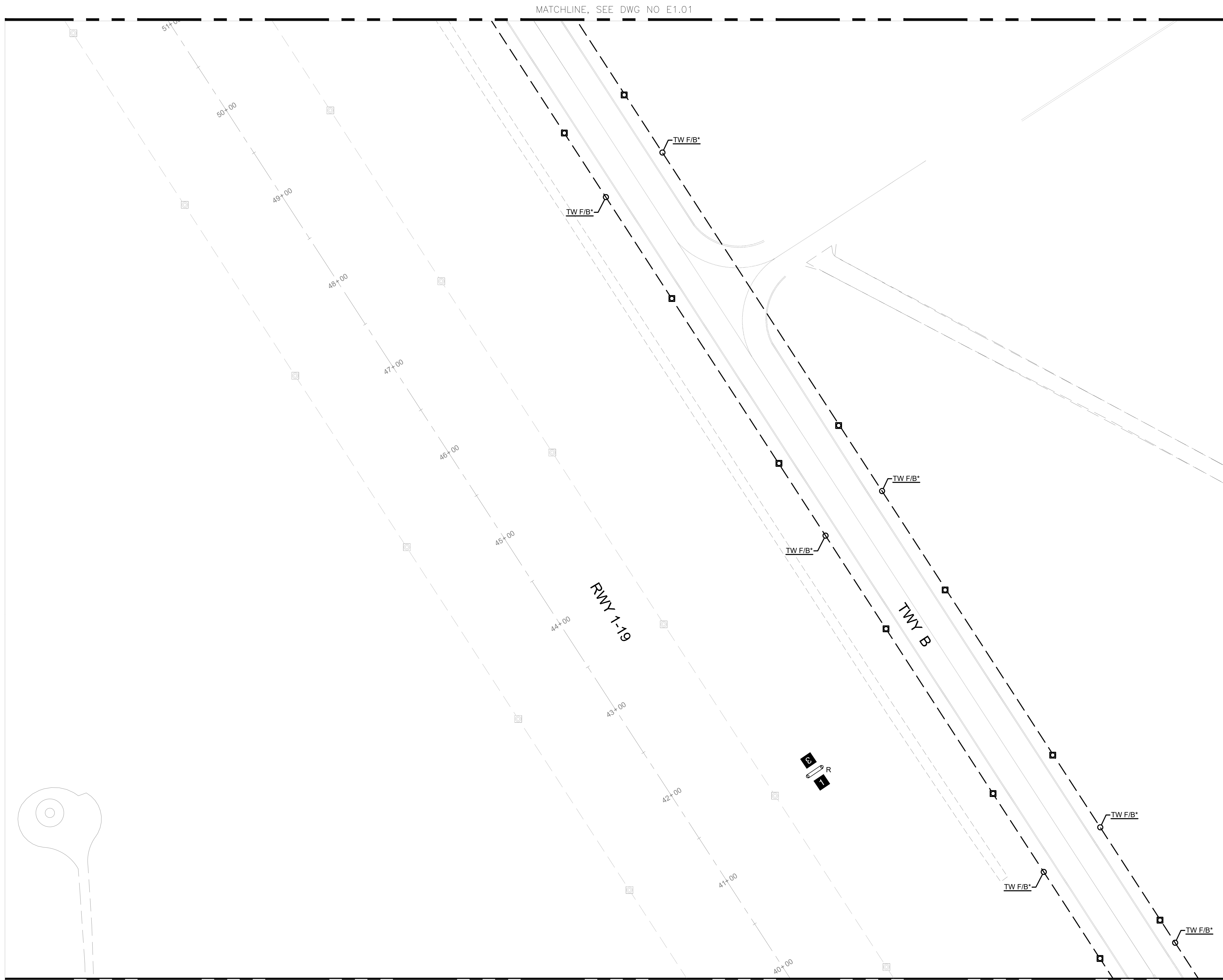
No.	Revision	Date	By

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 File Name: FILE NAME

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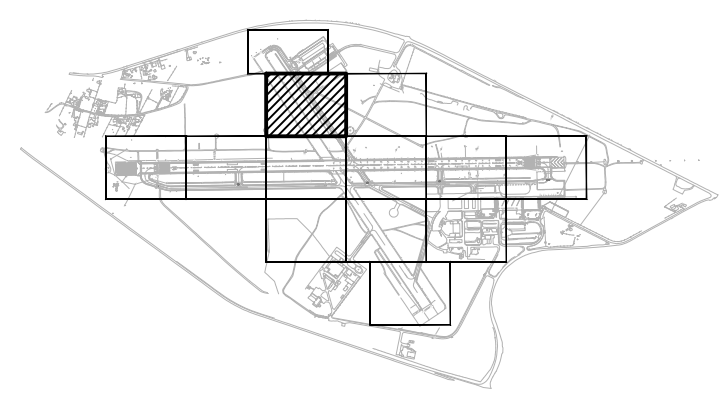
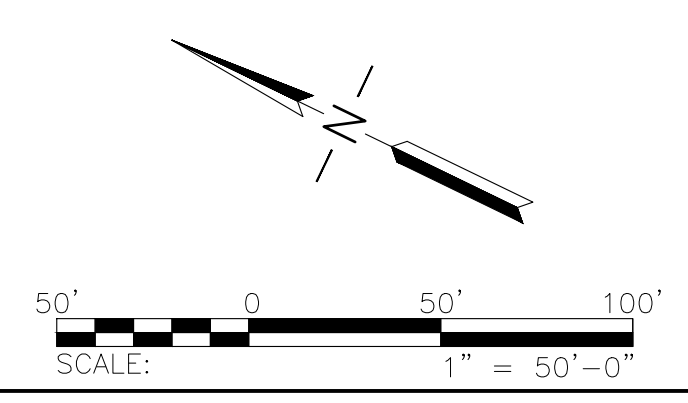
AIRFIELD LIGHTING DEMO PLAN 1

Sheet: **E1.01**



GENERAL NOTES
 1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E1.03



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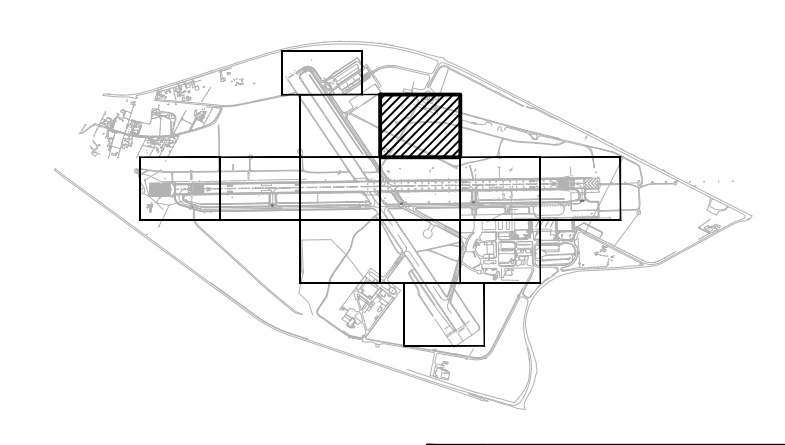
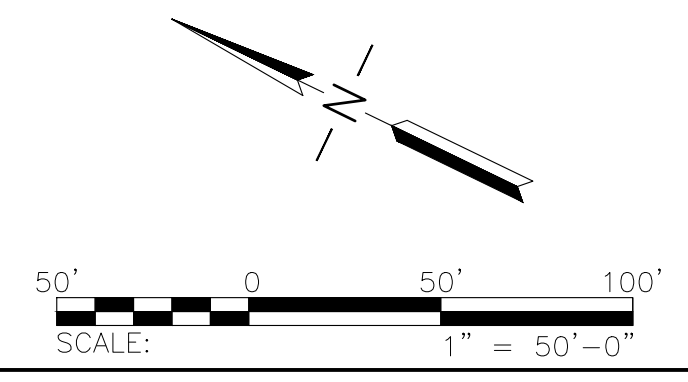
AIRFIELD LIGHTING DEMO PLAN 2



MATCHLINE, SEE DWG NO E1.02

MATCHLINE, SEE DWG NO E1.07

GENERAL NOTES
 1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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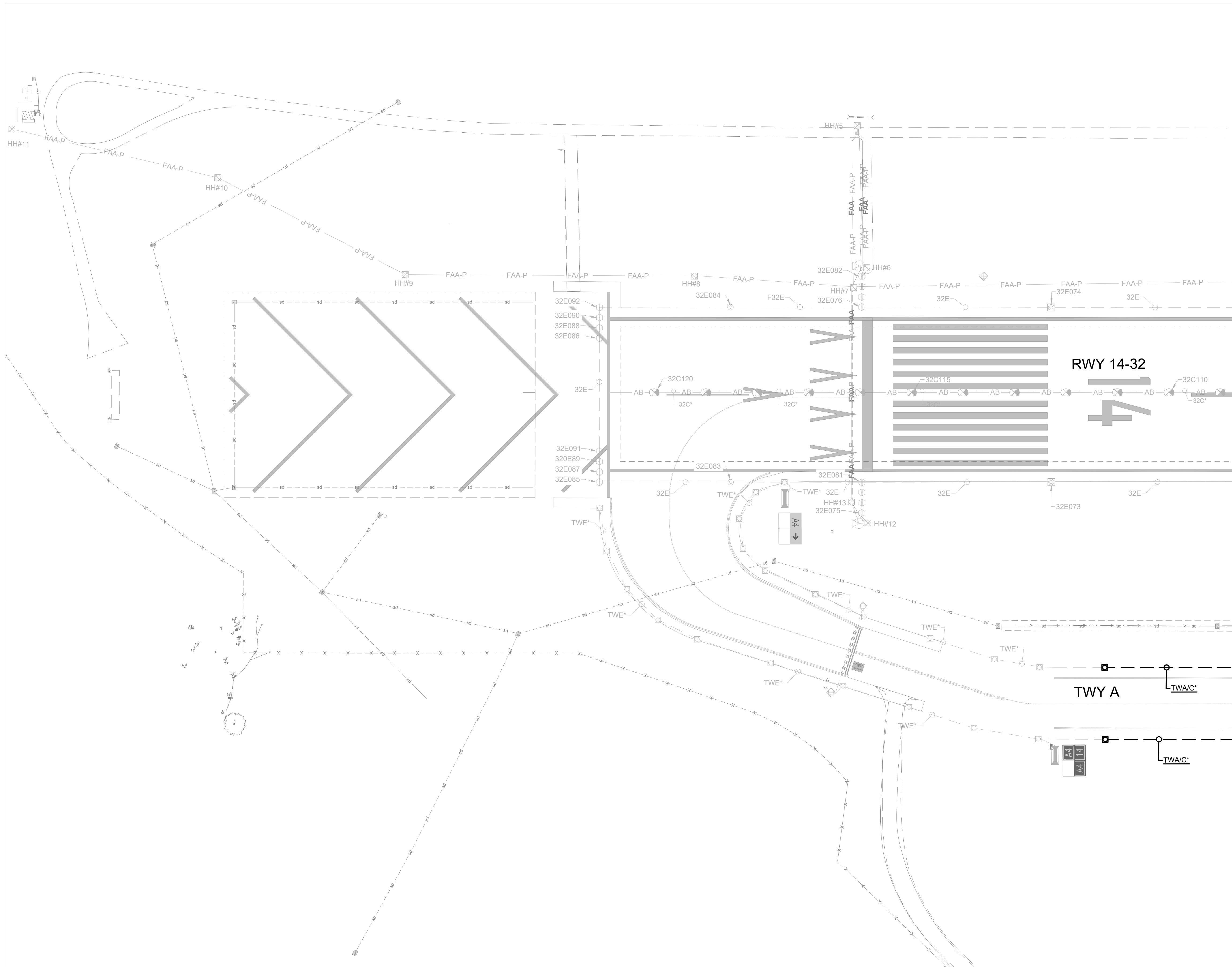
No.	Revision	Date	By

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AIRFIELD LIGHTING DEMO PLAN 3

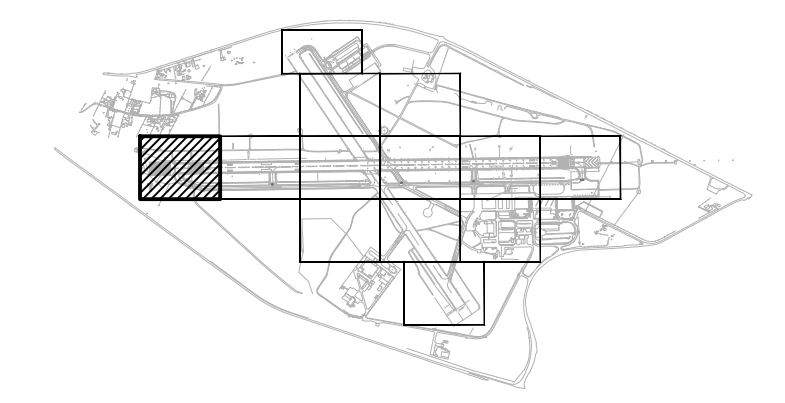
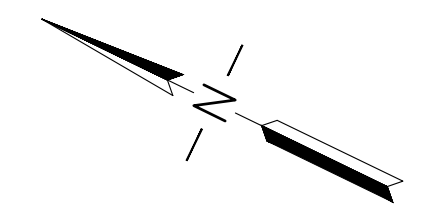
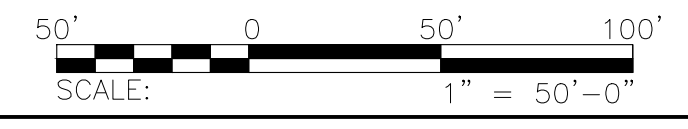
Sheet: **E1.03**



GENERAL NOTES

1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.
2. THIS SHEET IS FOR REFERENCE ONLY.

MATCHLINE, SEE DWG NO E1.05

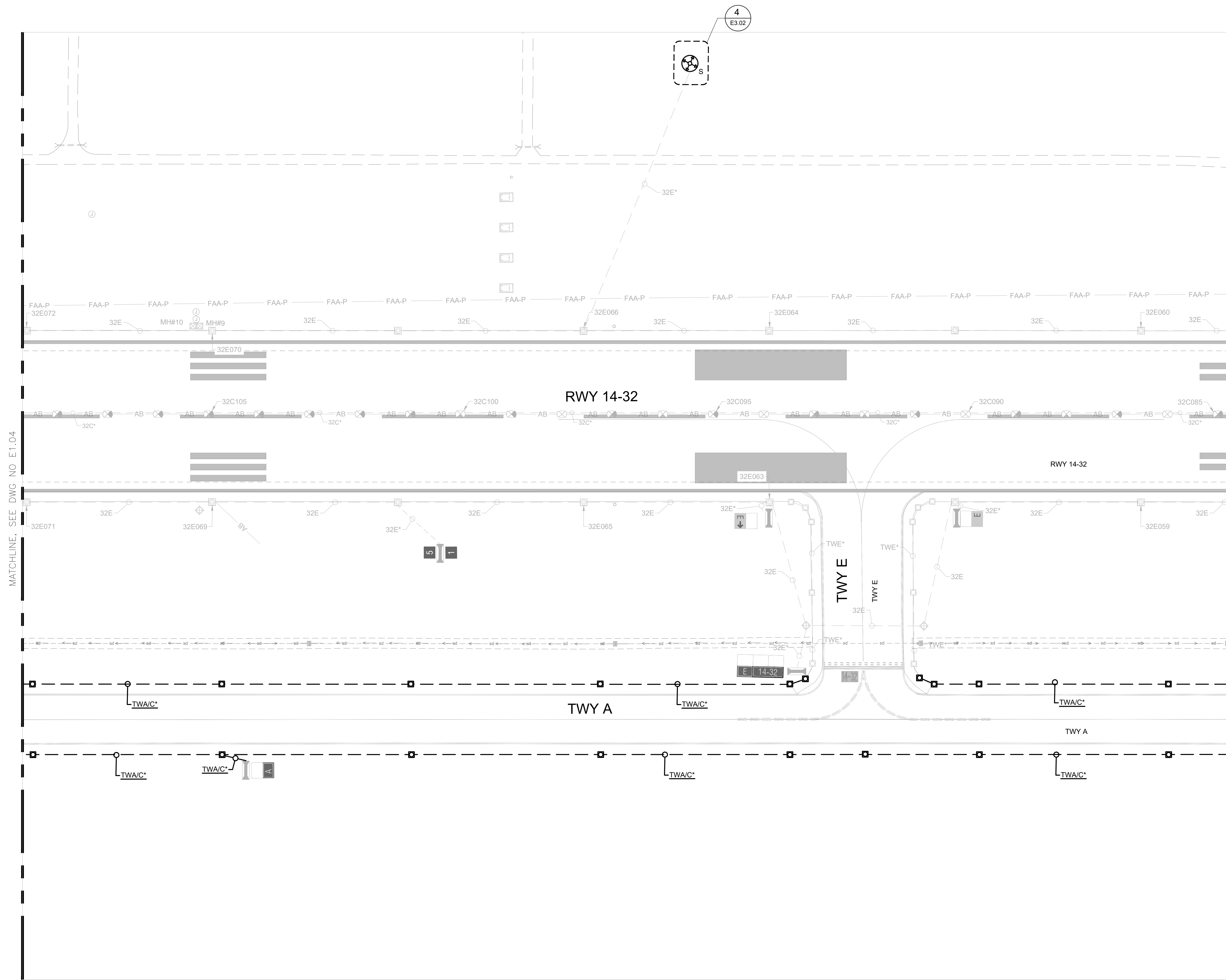


No.	Revision	Date	By

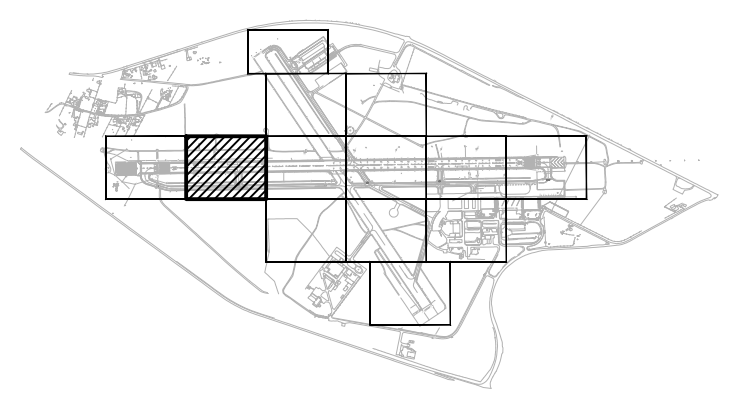
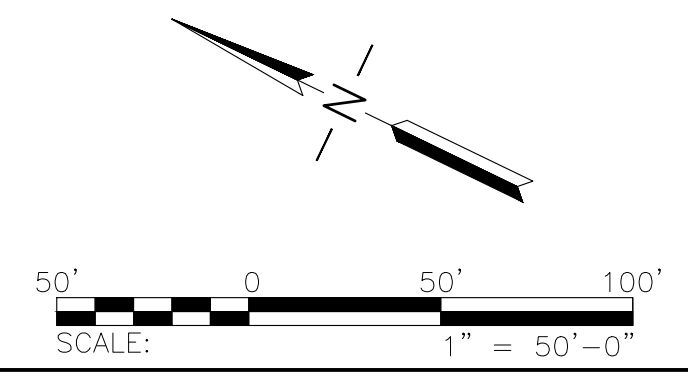
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File Name: FILE NAME

Drawn: KV
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**AIRFIELD
LIGHTING
DEMO PLAN 4**



GENERAL NOTES
 1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

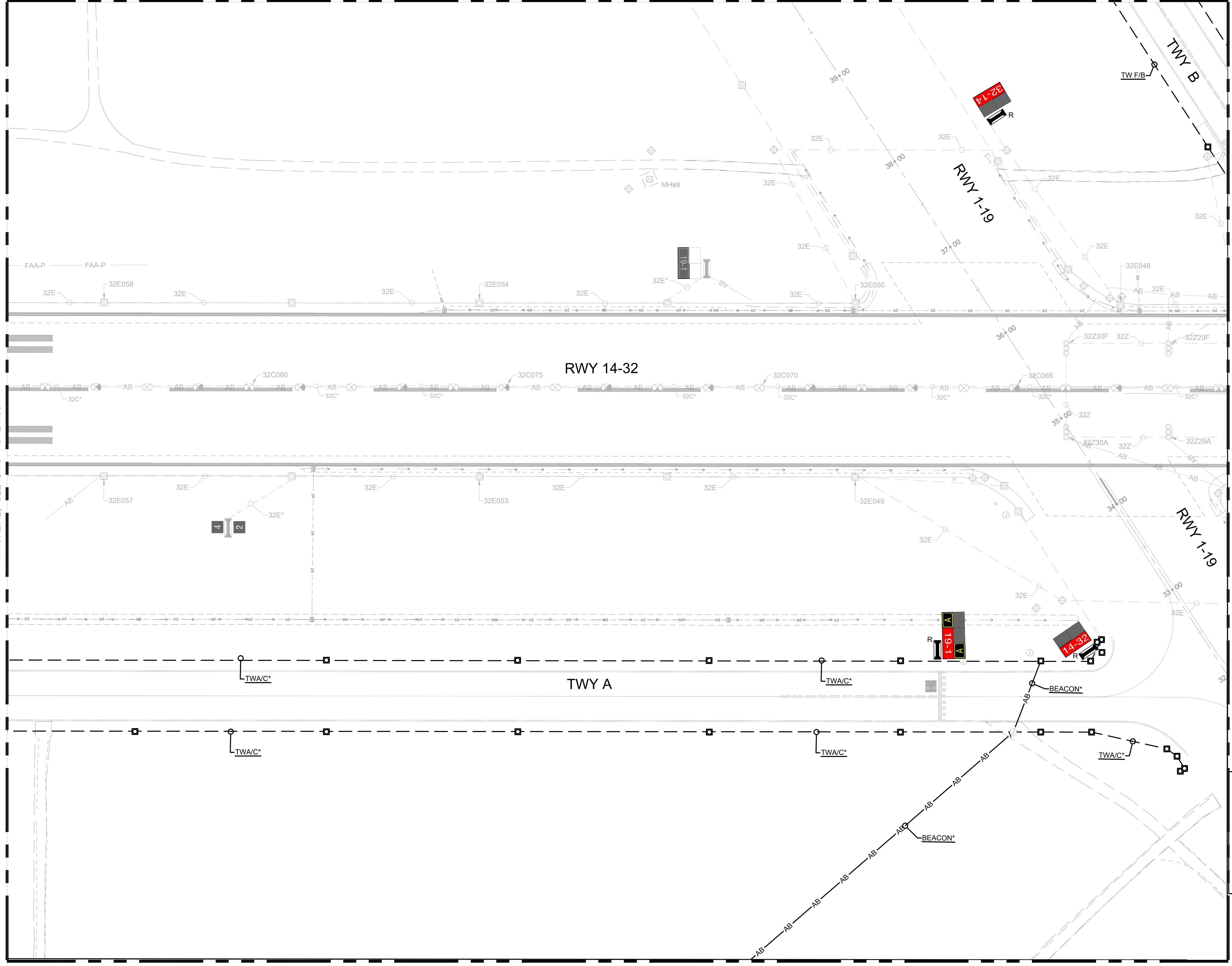


No.	Revision	Date	By

ACI No. XXXXX
 Date: 12/2022
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AIRFIELD LIGHTING DEMO PLAN 5



MATCHLINE, SEE DWG NO E1.02

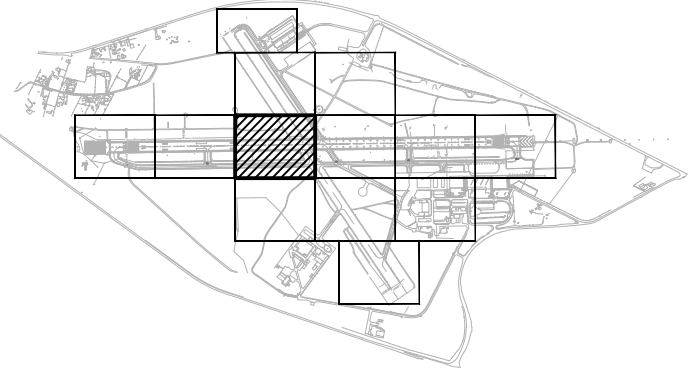
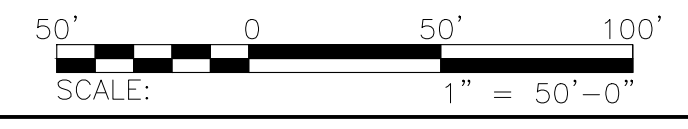
MATCHLINE, SEE DWG NO E1.05

MATCHLINE, SEE DWG NO E1.07

MATCHLINE, SEE DWG NO E1.10

GENERAL NOTES

- SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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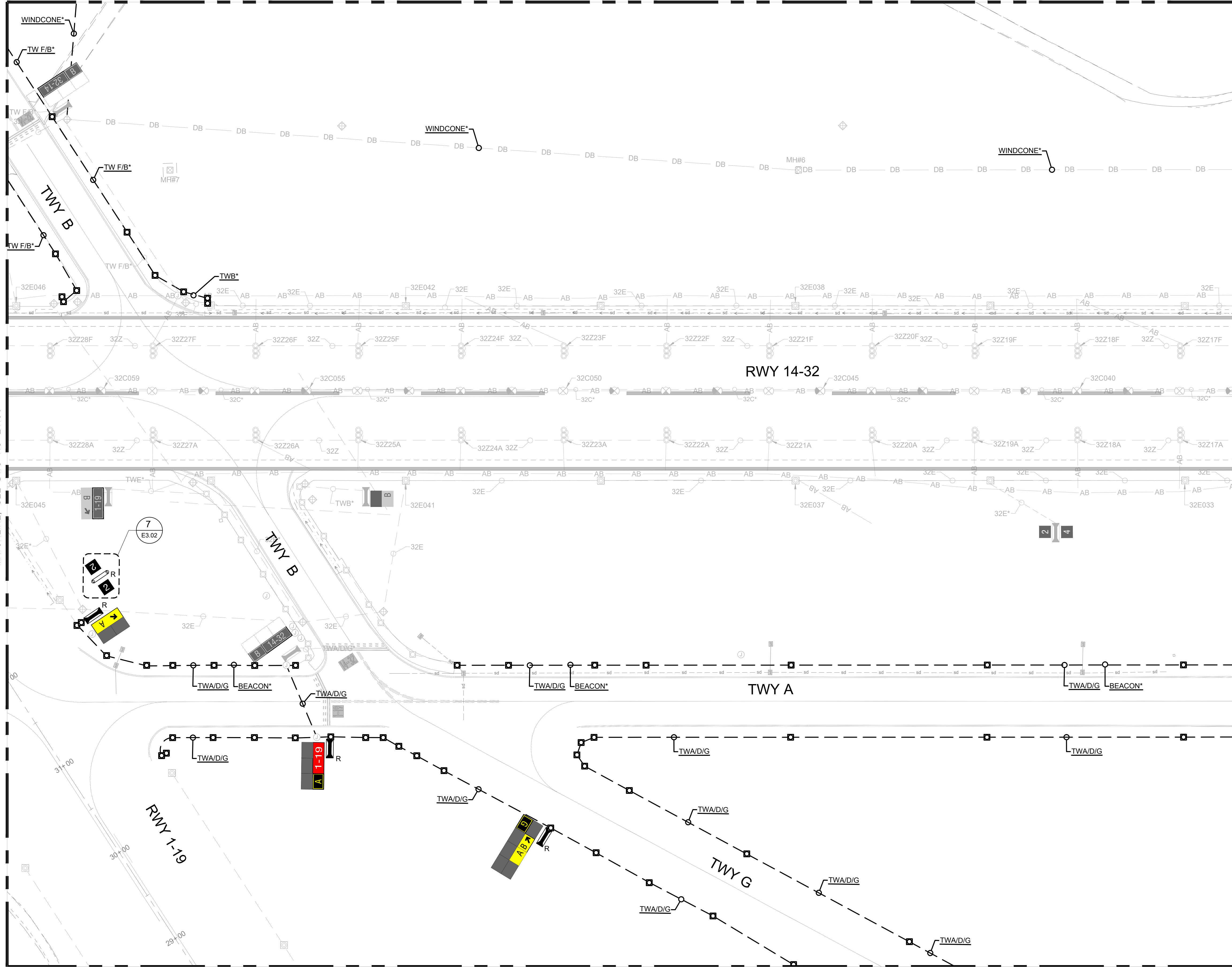
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AIRFIELD LIGHTING DEMO PLAN 6

Sheet: **E1.06**

MATCHLINE, SEE DWG NO E1.03



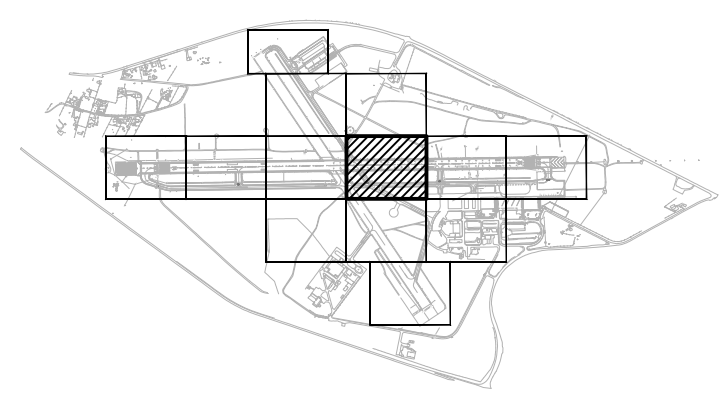
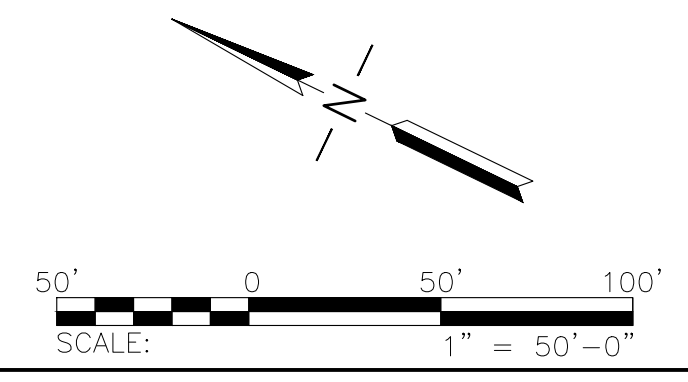
MATCHLINE, SEE DWG NO E1.11

GENERAL NOTES

- 1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E1.06

MATCHLINE, SEE DWG NO E1.08



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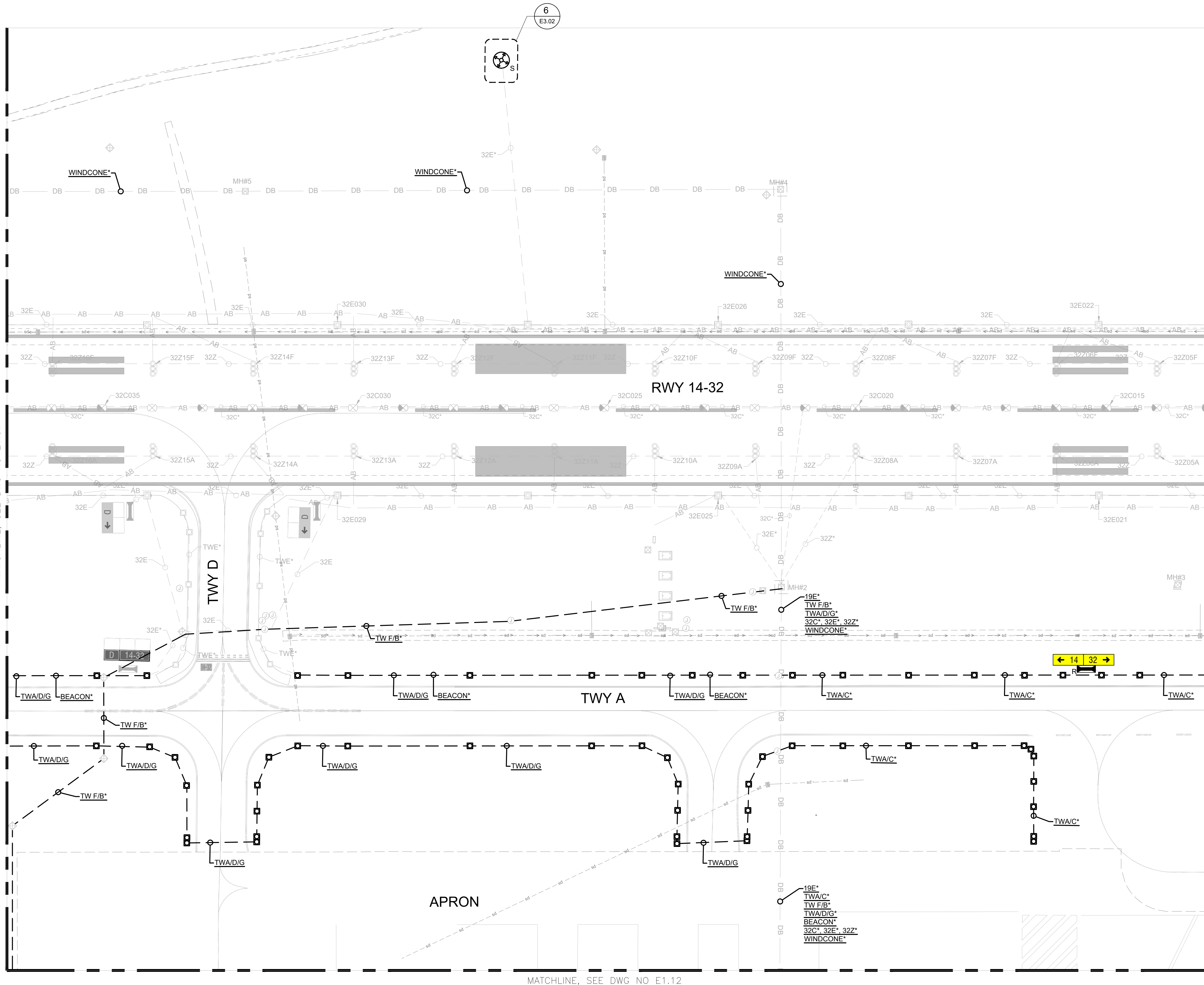
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AIRFIELD LIGHTING DEMO PLAN 7



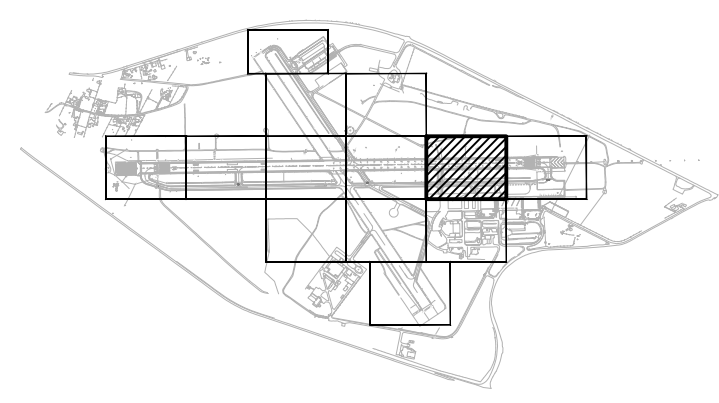
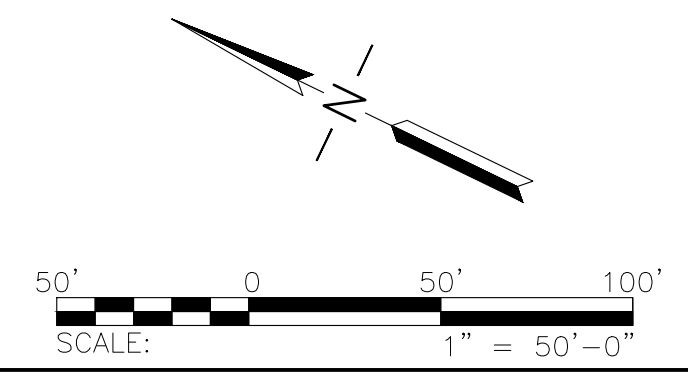
GENERAL NOTES

- SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E1.07

MATCHLINE, SEE DWG NO E1.09

MATCHLINE, SEE DWG NO E1.12



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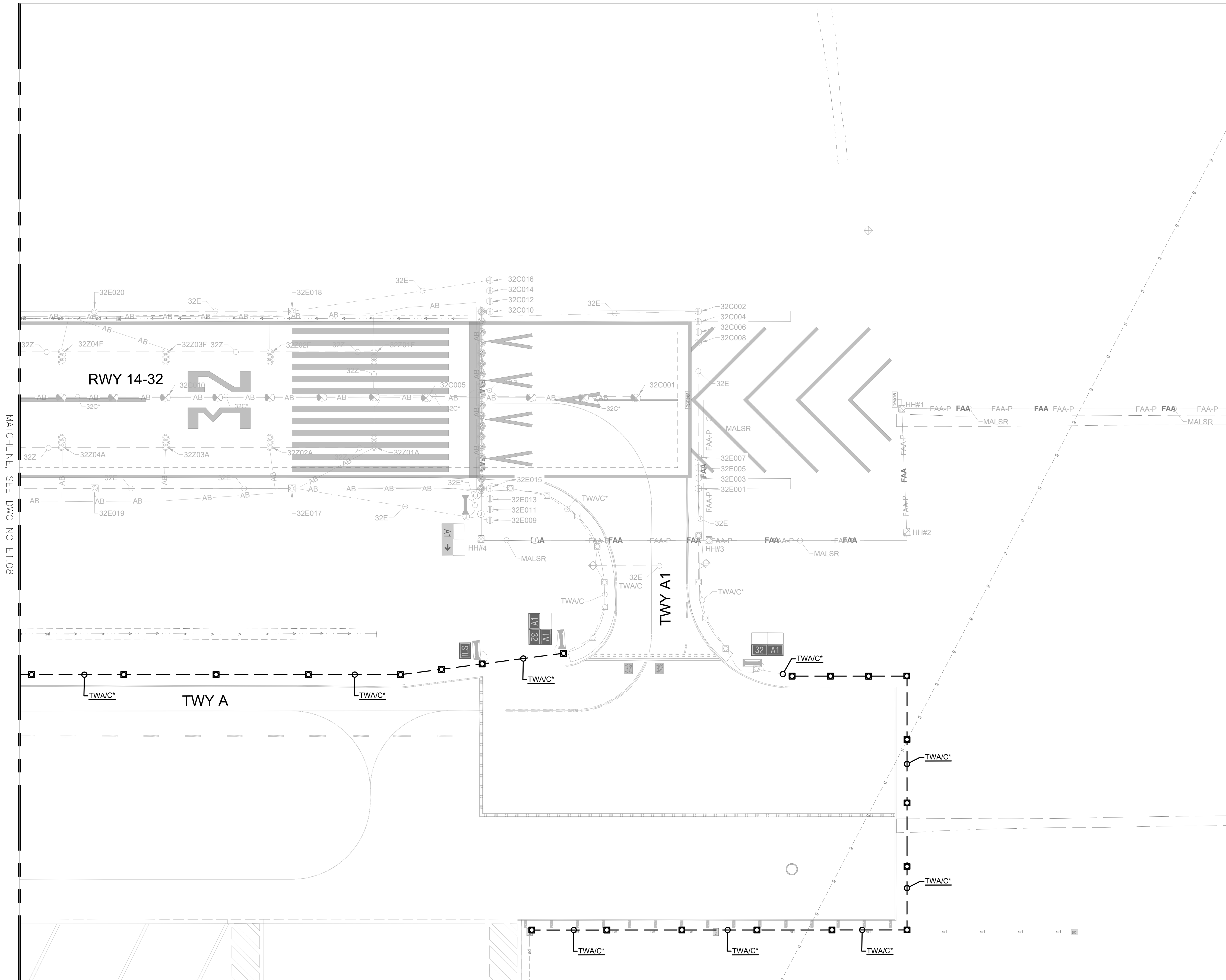
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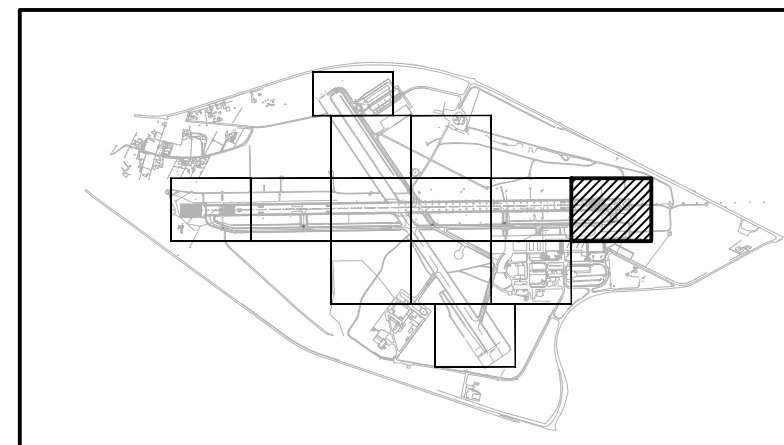
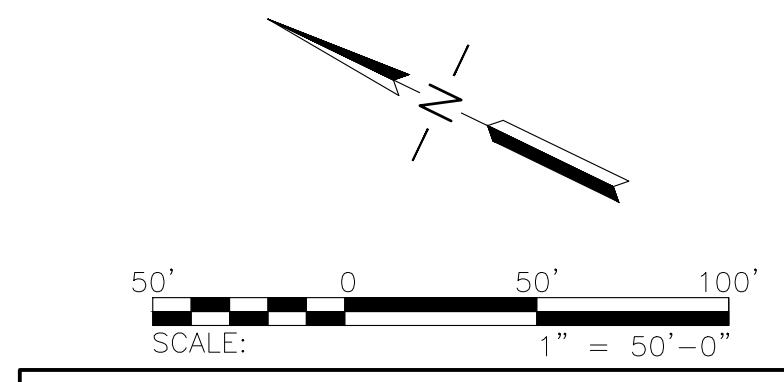
AIRFIELD LIGHTING DEMO PLAN 8

Sheet: **E1.08**



MATCHLINE, SEE DWG NO E1.08

GENERAL NOTES
 1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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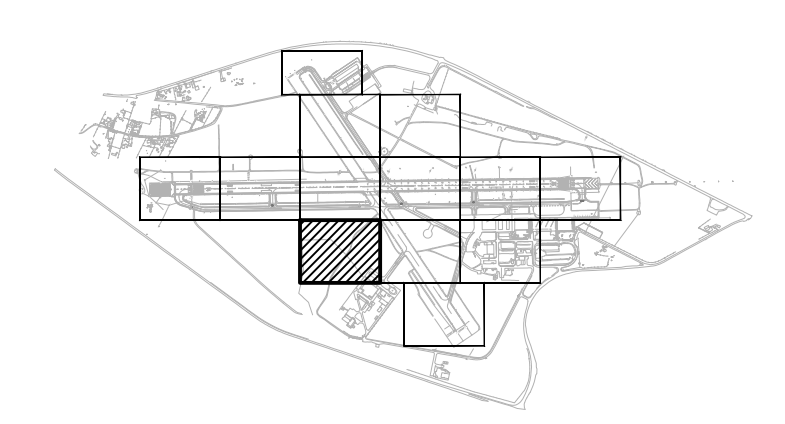
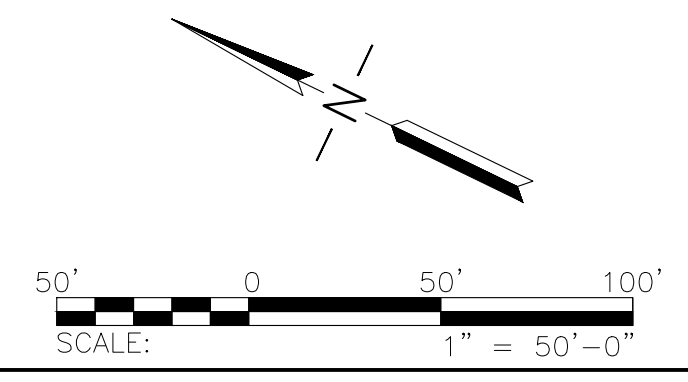
AIRFIELD LIGHTING DEMO PLAN 9



GENERAL NOTES

1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

- 1
E3.02
- 2
E3.02
- 3
E3.02



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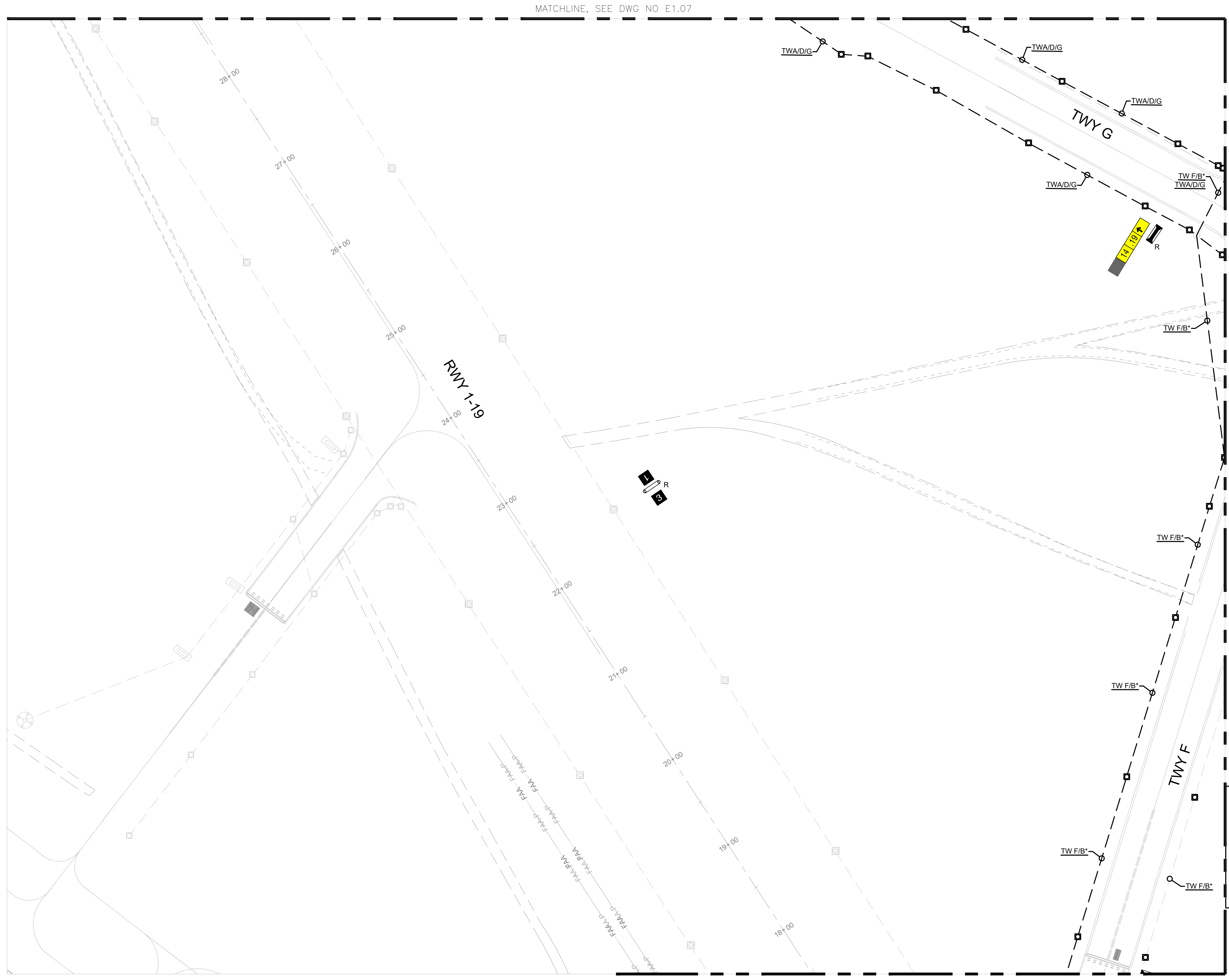
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AIRFIELD LIGHTING DEMO PLAN 10



MATCHLINE, SEE DWG NO E1.07

GENERAL NOTES

- SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E1.12

MATCHLINE, SEE DWG NO E1.13



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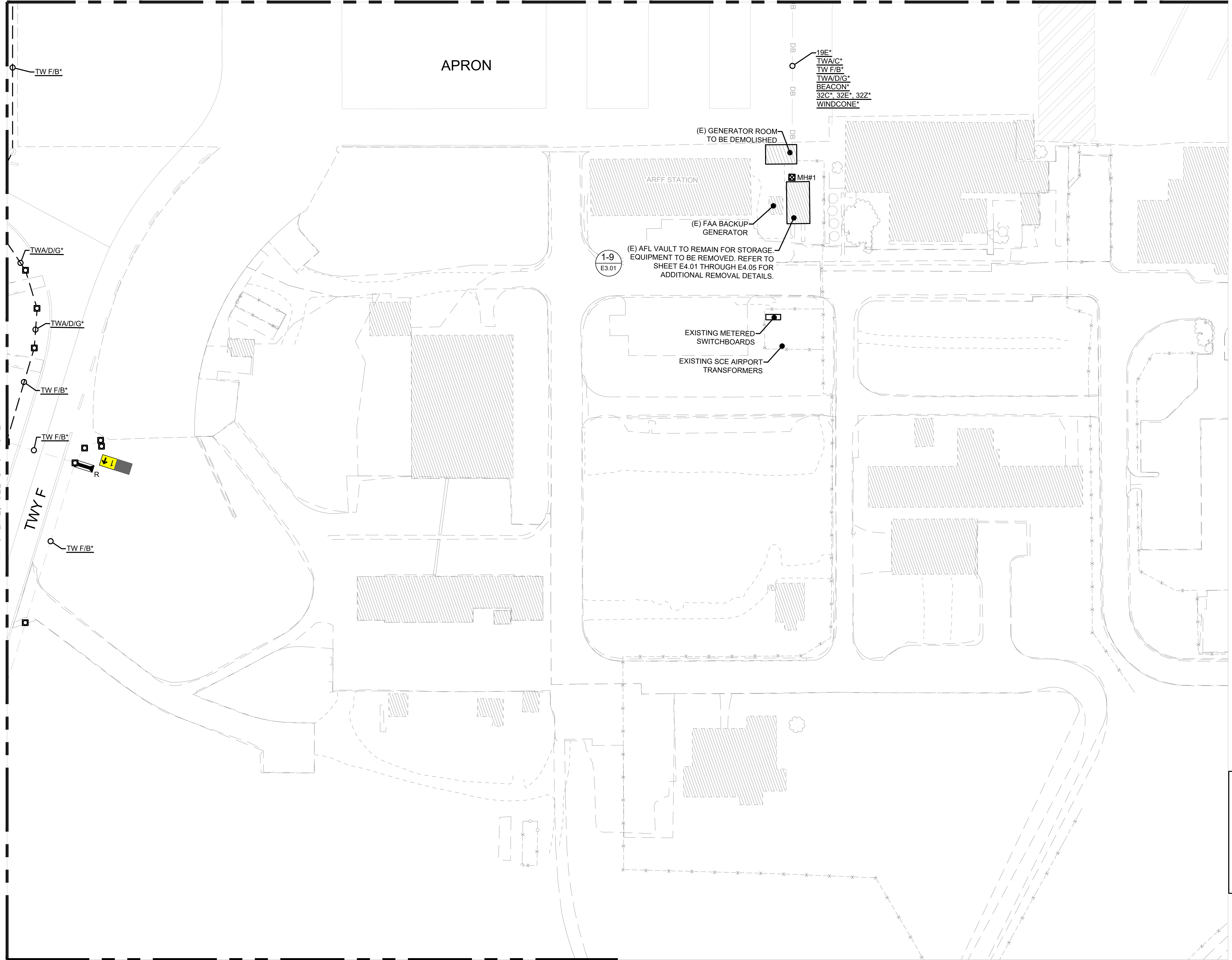
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**AIRFIELD
 LIGHTING
 DEMO PLAN 11**

Sheet: **E1.11**

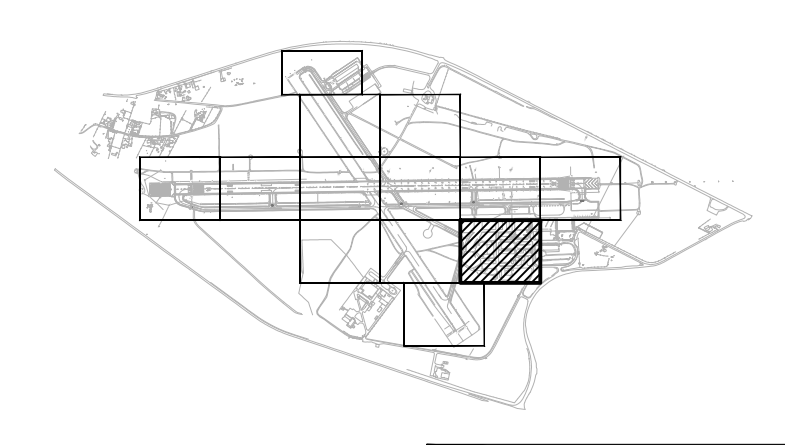
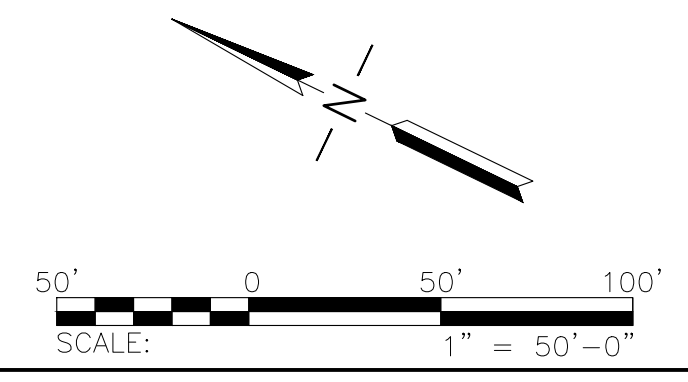
MATCHLINE, SEE DWG NO E1.08



MATCHLINE, SEE DWG NO E1.13

GENERAL NOTES

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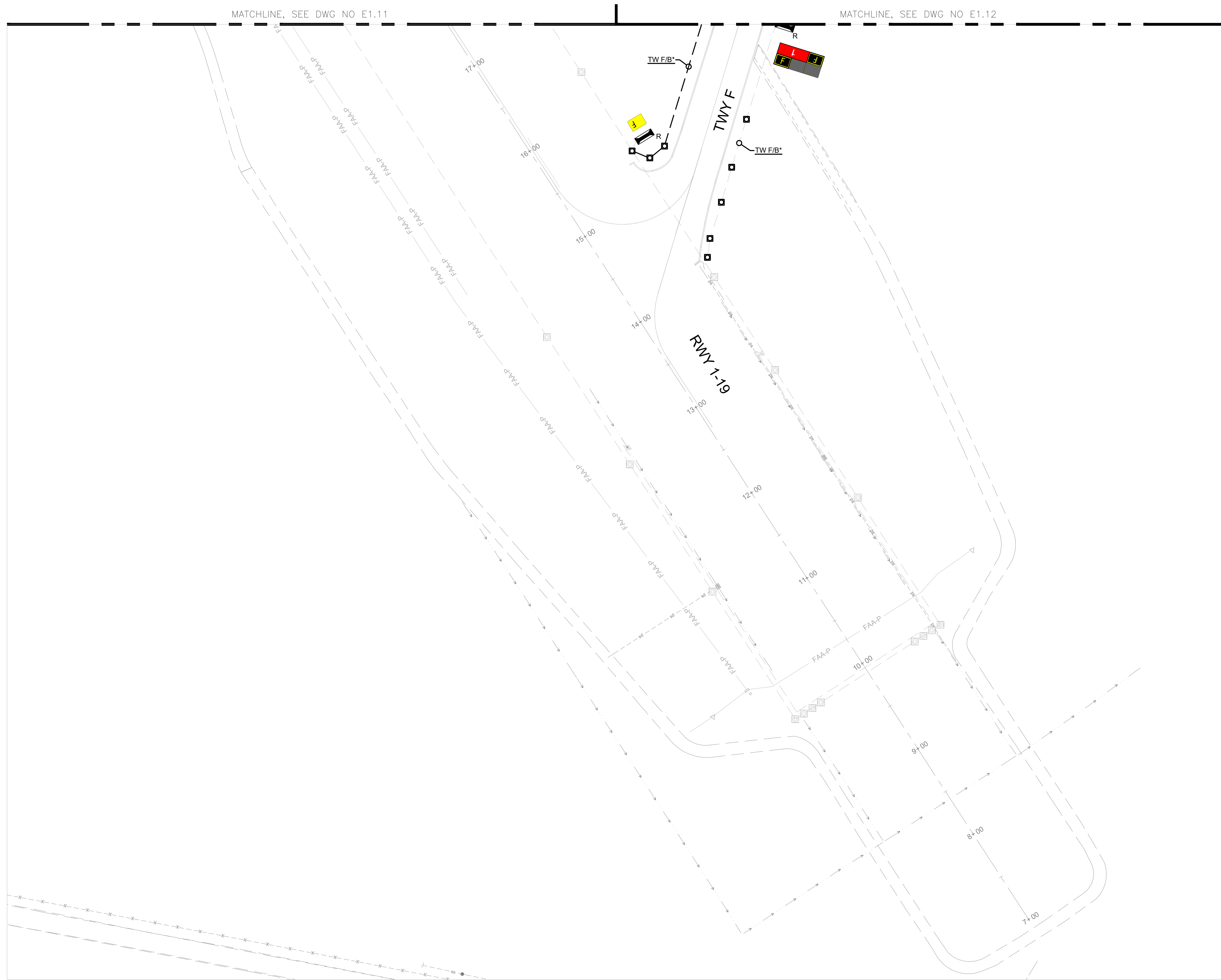
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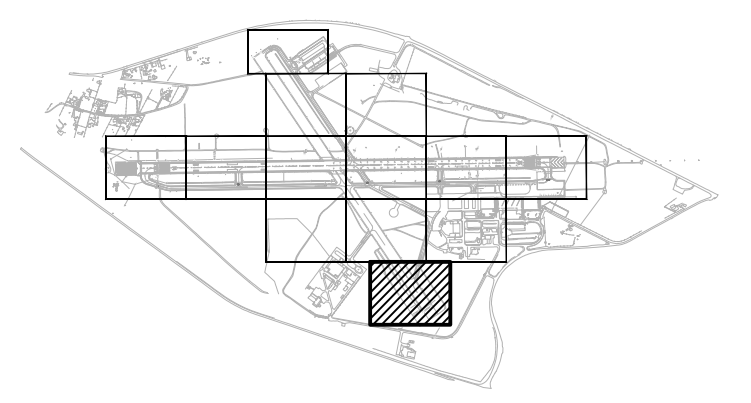
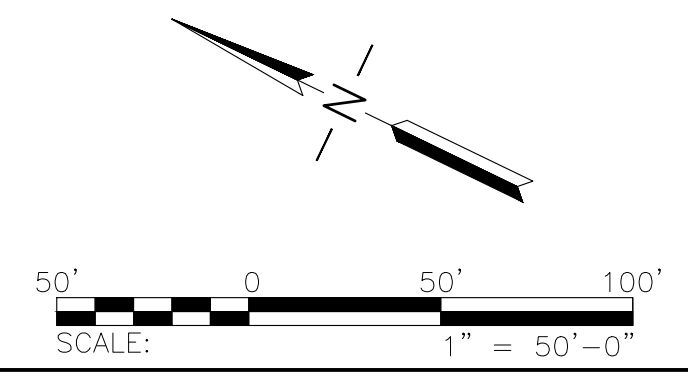
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Approved: DL

AIRFIELD LIGHTING DEMO PLAN 12

Sheet: **E1.12**



GENERAL NOTES
 1. SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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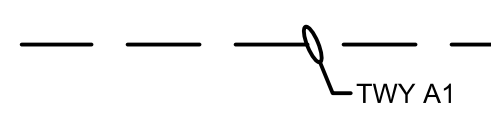
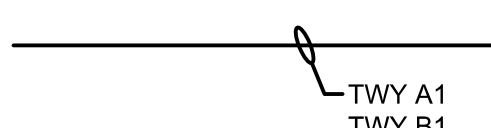

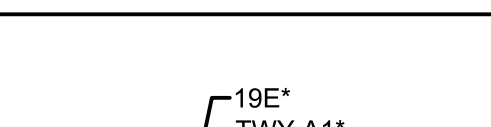

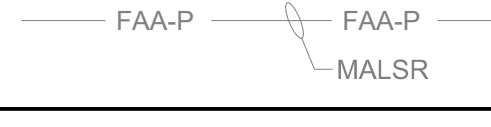

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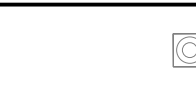



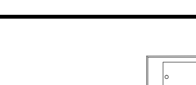
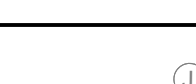
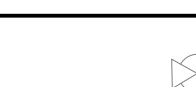
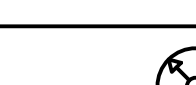
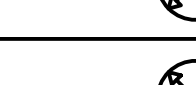
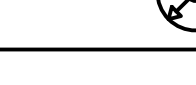
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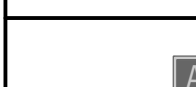
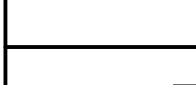



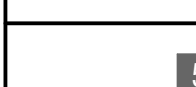
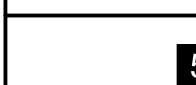
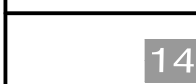
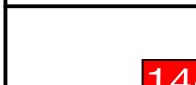
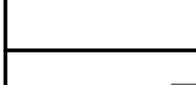
AIRFIELD LIGHTING DEMO PLAN 13

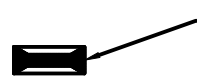
Sheet: **E1.13**

NEW ELECTRICAL LEGEND (FOR SHEETS E2.01 THRU E2.13)

CONDUITS/CABLES	DESCRIPTION
	EXISTING AIRFIELD LIGHTING CONDUIT & CABLE TO REMAIN. "TWY A1" DENOTES CIRCUIT ID.
	NEW AIRFIELD LIGHTING CABLES TO BE INSTALLED IN EXISTING CONDUIT. "TWY A1" DENOTES CIRCUIT ID WITH 1-1/C #8 5KV FAA CABLE WITH 1#6 GREEN GROUND WIRE. CIRCUIT ID'S WITH "" DENOTES 2-1/C #8 5KV FAA L-824 CABLE WITH 1#6 GREEN GROUND WIRE.
	NEW 2" PVC SCHEDULE 40 CONDUIT & AIRFIELD LIGHTING CABLE TO BE INSTALLED IN EXISTING PAVEMENT OR NON-PAVED EARTH. "TWY A1", "TWY A2" DENOTES CIRCUIT ID, WITH 1-1/C #8, 5KV, FAA L-824 CABLE. "" DENOTES 2-1/C #8 5KV FAA L-824 CABLES WITH 1#6 GREEN GROUND WIRE. REFER SHEET E6.03.
	EXISTING AIRFIELD LIGHTING DUCTBANK AND CABLES TO REMAIN.
	NEW AIRFIELD LIGHTING CABLE TO BE INSTALLED IN EXISTING DUCTBANK. ALL NEW CABLE INSTALLED IN AIRFIELD LIGHTING DUCTBANKS SHALL BE #8, 5KV, FAA L-824 CABLE UNLESS OTHERWISE NOTED. EACH CONDUIT WITH NEW AIRFIELD LIGHTING CABLE SHALL INCLUDE A 1#6 GREEN GROUND WIRE. CIRCUIT ID'S WITH "" DENOTES 2-1/C #8 5KV FAA L-824 CABLE WITH 1#6 GREEN GROUND WIRE.
	EXISTING MALSR CONDUIT & CABLE TO REMAIN. "MALSR" DENOTES CIRCUIT ID.
	EXISTING FAA CONDUIT & CABLE TO REMAIN.
	ABANDONED CONDUIT

LIGHTS	DESCRIPTION
	EXISTING TAXIWAY EDGE LIGHT TO REMAIN.
	INSTALL NEW L-861(L) ELEVATED T/W EDGE LIGHT WITH NEW TRANSFORMER ON EXISTING BASE CAN. REFER DETAIL 2 SHEET E6.01.
	EXISTING RUNWAY EDGE LIGHT TO REMAIN.
	EXISTING MALSR LIGHT BAR TO REMAIN.
HANDHOLE & STRUCTURE	DESCRIPTION
	EXISTING POWER OR COMMUNICATION HANDHOLE TO REMAIN.
	EXISTING POWER/COMMUNICATION HANDHOLE TO BE ACCESSED FOR REMOVAL OF CABLE, HAND HOLE TO REMAIN.
	EXISTING PAPI TO REMAIN.
	EXISTING JUNCTION BASE CAN TO REMAIN.
	EXISTING REIL TO REMAIN
	NEW PRIMARY WINDCONE ON NEW FOUNDATION. REFER DETAIL 1 SHEET E6.07
	NEW SECONDARY WINDCONE ON EXISTING FOUNDATION. REFER DETAIL 1 SHEET E6.08
	NEW BEACON ON NEW FOUNDATION AND POLE. REFER DETAIL 1 SHEET E6.09.

SIGN	DESCRIPTION
	EXISTING AIRFIELD SIGN TO REMAIN.
	NEW AIRFIELD SIGN TO BE INSTALLED ON NEW FOUNDATION. REFER DETAIL 1 SHEET E6.06.
	EXISTING LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN PANEL.
	NEW LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN PANEL (YELLOW LEGEND AND BORDER ON BLACK BACKGROUND).
	EXISTING LIGHTED DIRECTION, DESTINATION & BOUNDARY SIGN PANEL.
	NEW LIGHTED DIRECTION, DESTINATION & BOUNDARY SIGN PANEL (BLACK LEGEND ON YELLOW BACKGROUND)
	EXISTING LIGHTED RUNWAY DISTANCE REMAINING SIGN PANEL.
	NEW LIGHTED RUNWAY DISTANCE REMAINING SIGN PANEL (WHITE LEGEND ON BLACK BACKGROUND).
	EXISTING LIGHTED MANDATORY SIGN PANEL
	NEW LIGHTED MANDATORY SIGN PANEL (BLACK OUTLINE ON OUTSIDE EDGE OF WHITE LEGEND ON RED BACKGROUND).
	EXISTING BLANK SIGN PANEL
	NEW BLANK SIGN PANEL

 A1-01, 2M — SIGN ID, # OF MODULES
 N: — NORTHING
 E: — EASTING

- ALL NON-RDR SIGNS SHALL BE SIZE 1, CLASS 2, MODE 2, AND STYLE 2.
- ALL RDR SIGNS SHALL BE SIZE 4, CLASS 2, MODE 2, AND STYLE 2.
- SIGN LENGTHS:

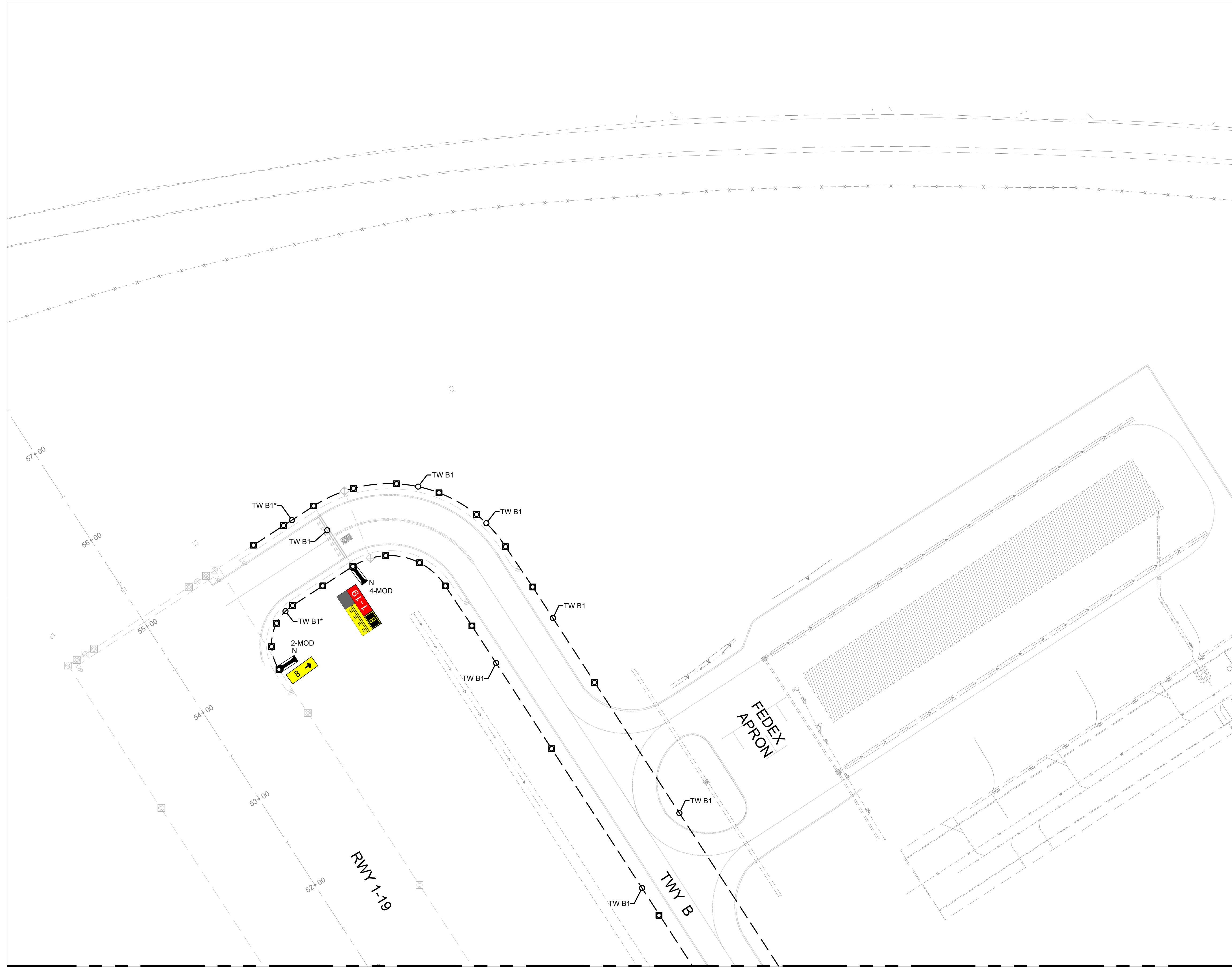
NO. OF MODULES	1	2	3	4
APPROXIMATE SIGN LENGTH (FEET)	8'	12'	15'	18'
- SIGN LENGTHS MAY VARY DEPENDING ON MANUFACTURER. LENGTH SHOWN IS MEANT FOR BIDDING PURPOSE ONLY.
- CONFIRM LENGTH WITH MANUFACTURER PRIOR TO BID AND ADJUST FOUNDATION ACCORDINGLY. CONTRACTOR SHALL BE PAID FOR THE LENGTH OF SIGN (NO. OF MODULES) AS SHOWN ON THIS SCHEDULE. IF MANUFACTURER REQUIRES A LONGER SIGN THAN SHOWN, ANY ADDITIONAL COST OF SIGN & FOUNDATION SHALL BE THE RESPONSIBILITY AND COST OF THE CONTRACTOR WITH NO SEPARATE PAYMENT.
- FOR NEW SIGNS BLUE STAKE THE 4 CORNERS OF SIGN AND FOUNDATION AND DEFINED EDGE OF T/W TO OBTAIN ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
- SIGN COORDINATE IS PROVIDED TO THE NEAREST EDGE OF SIGN TO DEFINED EDGE OF TAXIWAY. (NOT SIGN FOUNDATION OR BASE CAN).
- NEW SIGNS SHALL BE INSTALLED PERPENDICULAR TO THE T/W CENTERLINE MARKING UNLESS OTHERWISE SHOWN. CONTRACTOR SHALL SURVEY EXISTING MARKING TO PROVIDE OFFSET FOR SIGN FOUNDATION INSTALLATION.
- NEW SIGN FOUNDATIONS MUST BE LEVEL AND NOT SLOPE WITH THE EXISTING GRADES.

No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

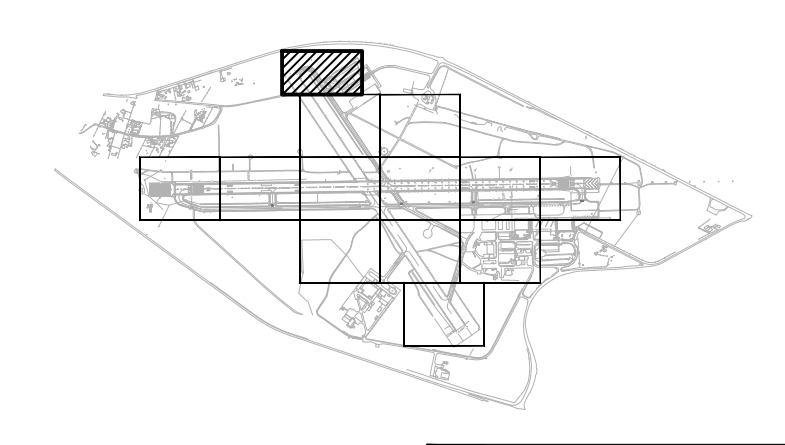
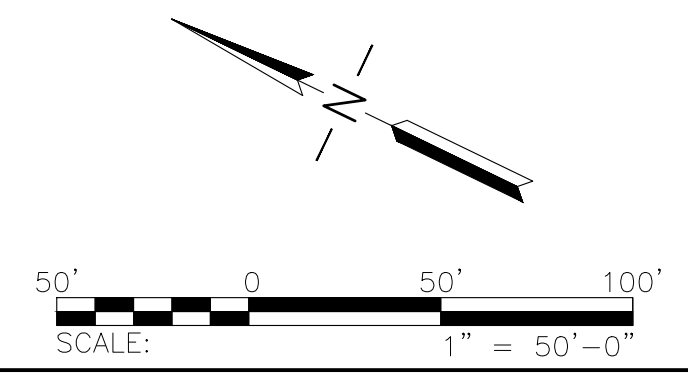
Drawn: KV
Checked: JA
Approved: DL

NEW ELECTRICAL LEGEND



MATCHLINE, SEE DWG NO E2.02

GENERAL NOTES
 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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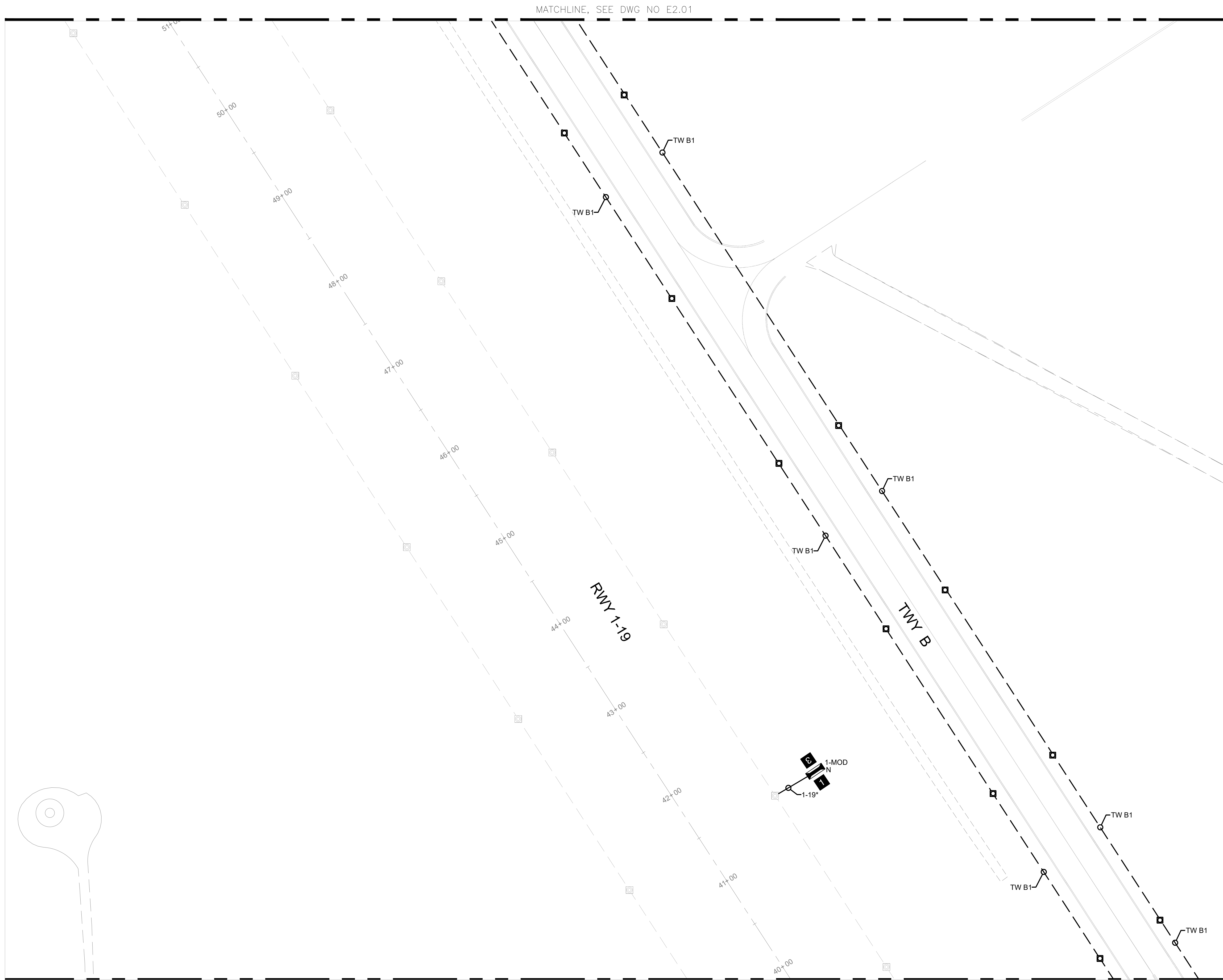
No.	Revision	Date	By

ACI No. XXXXX
 Date: 12/2022
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Drawn: KV
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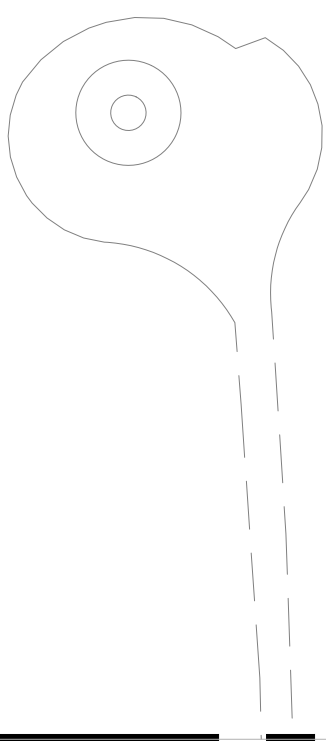
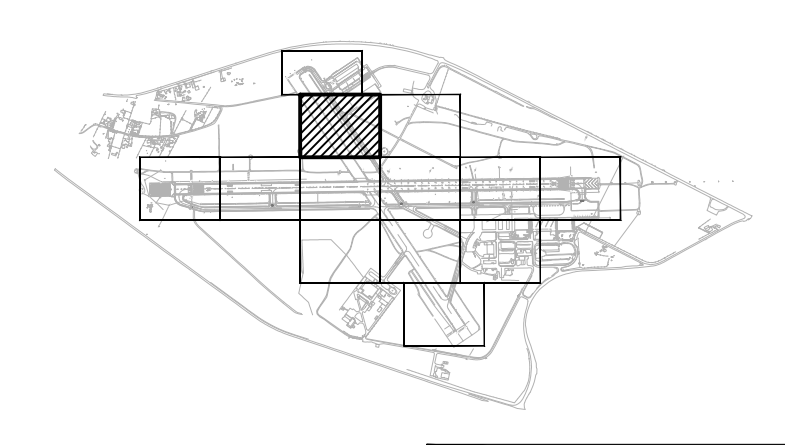
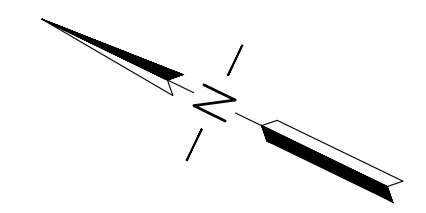
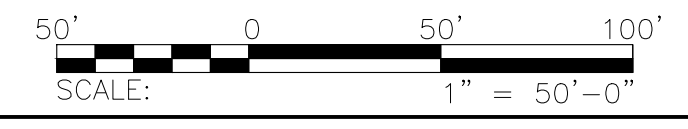
**AIRFIELD LIGHTING
 NEW PLAN 1**

Sheet: **E2.01**



GENERAL NOTES
 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E2.03



No.	Revision	Date	By

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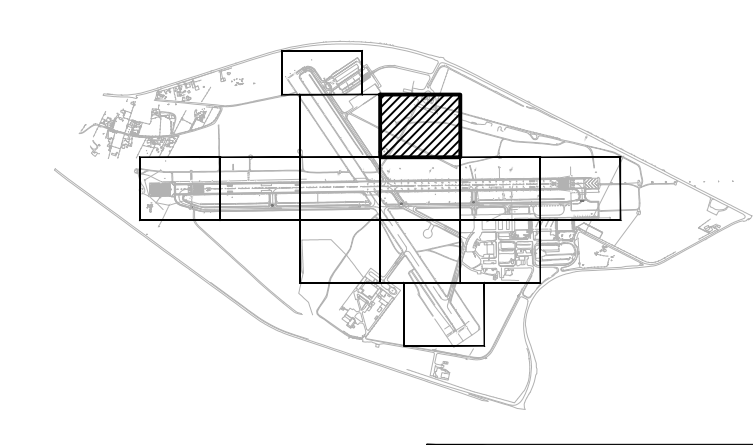
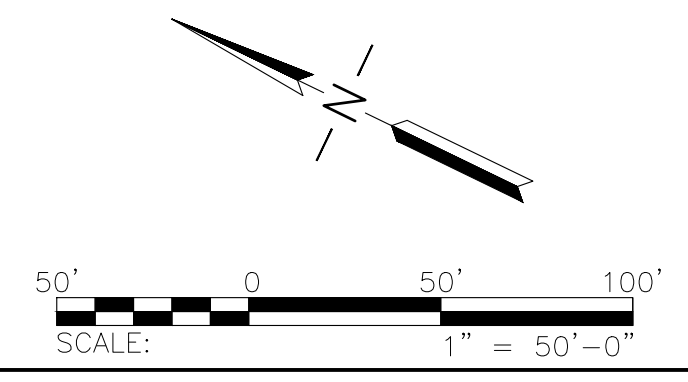
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 Checked: JA
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**AIRFIELD LIGHTING
 NEW PLAN 2**



GENERAL NOTES

- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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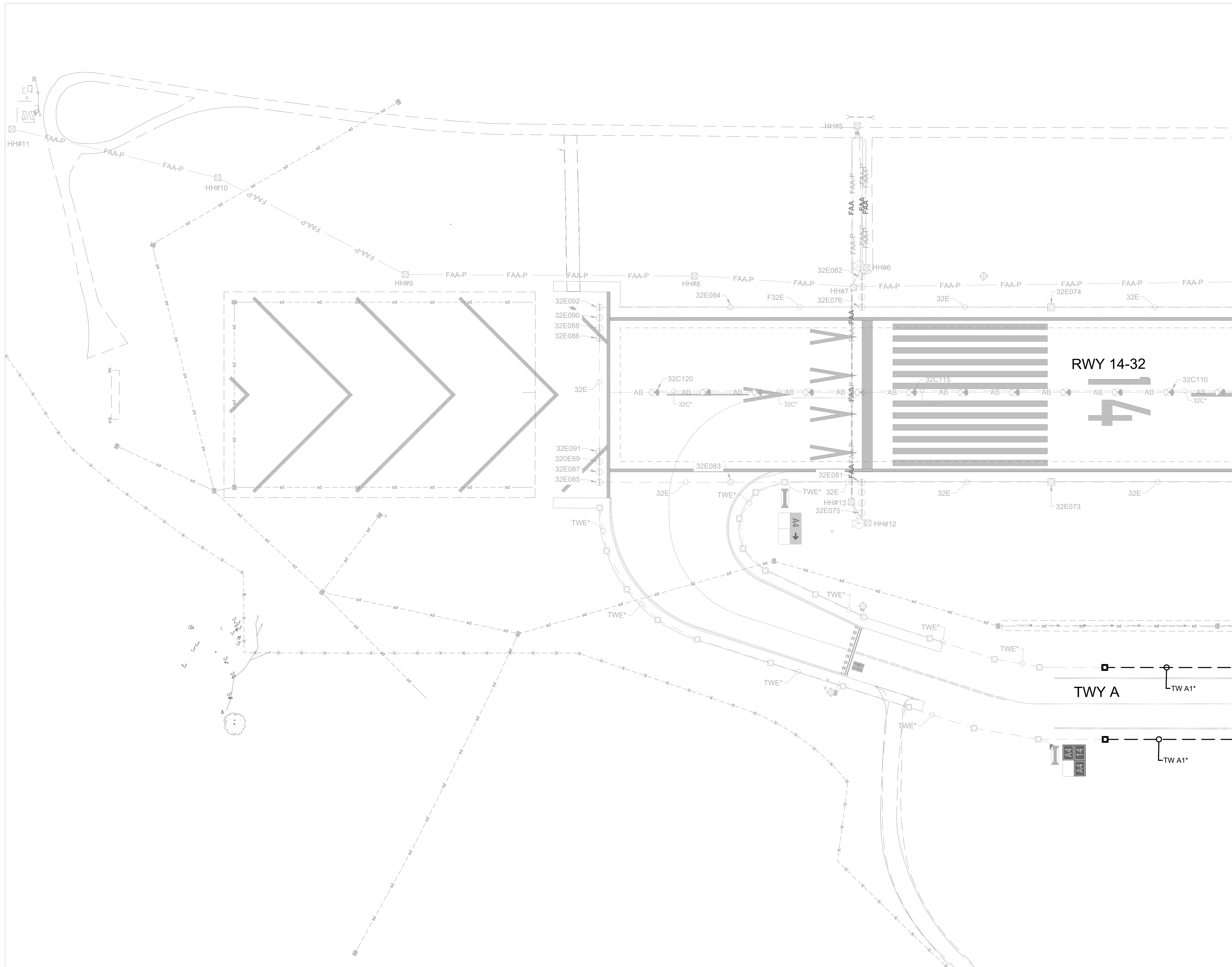
No.	Revision	Date	By

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Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
Approved: DL

**AIRFIELD LIGHTING
NEW PLAN 3**

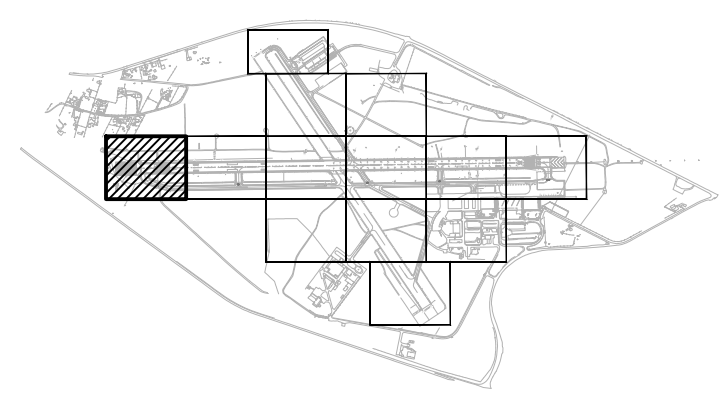
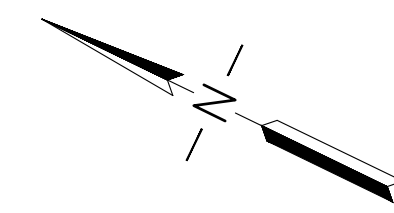
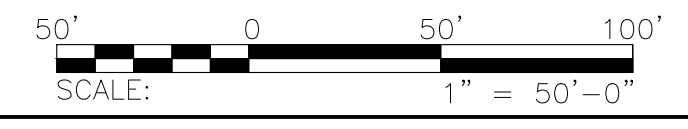
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GENERAL NOTES

- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E2.05

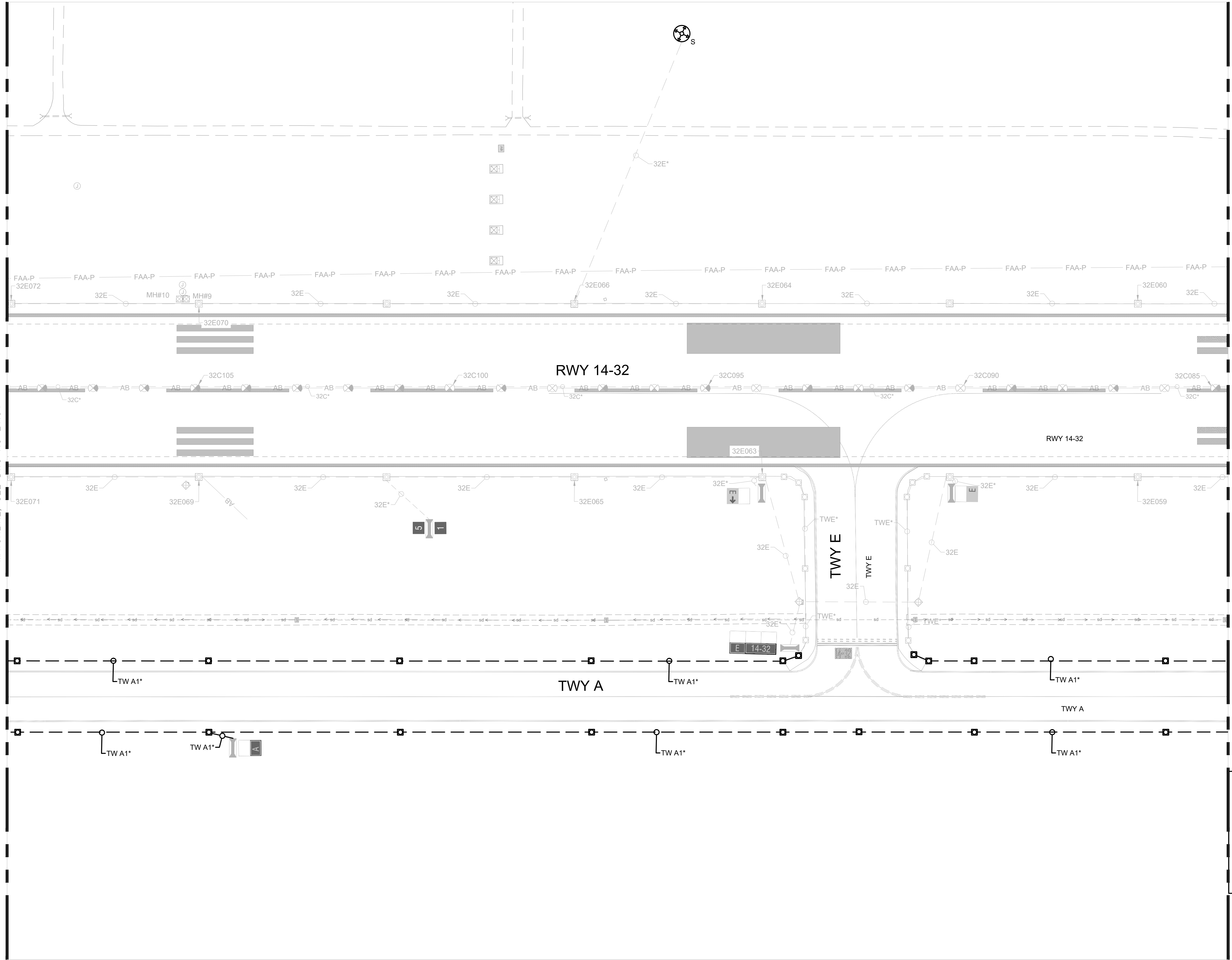


No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
Approved: DL

**AIRFIELD
LIGHTING
NEW PLAN 4**



GENERAL NOTES
 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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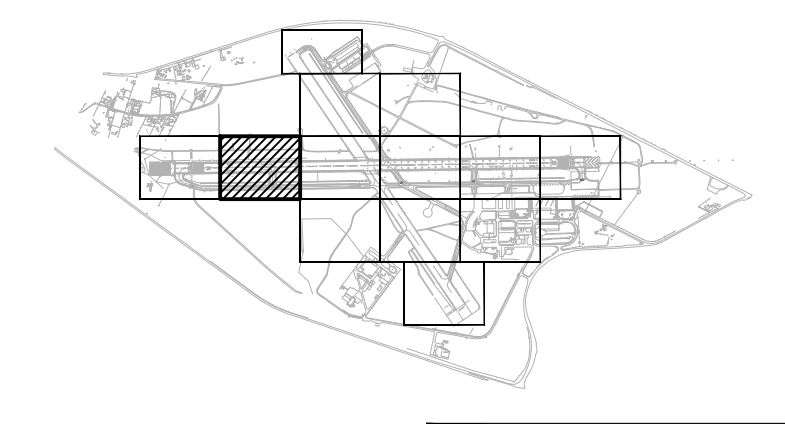
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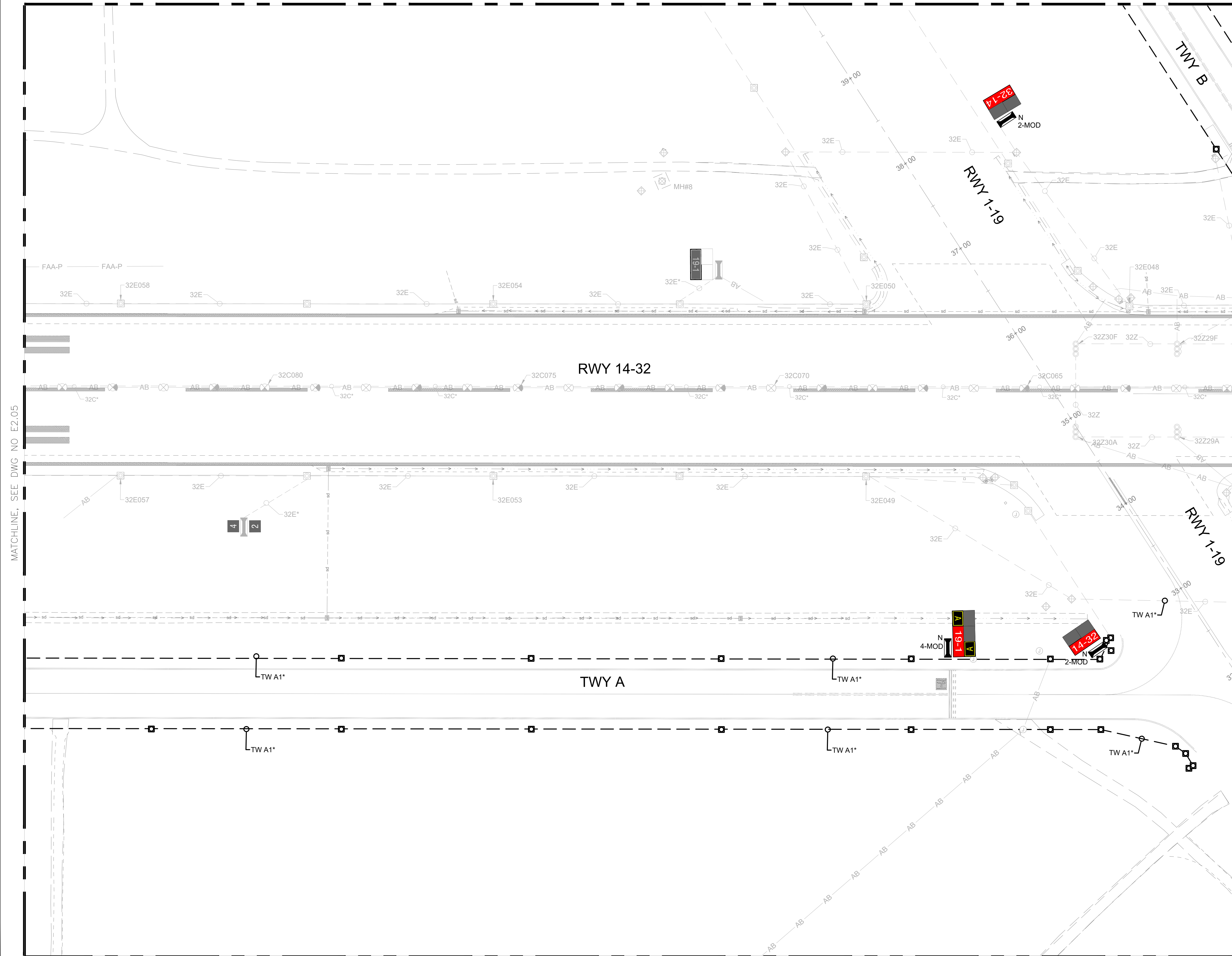
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**AIRFIELD LIGHTING
 NEW PLAN 5**

Sheet: **E2.05**



MATCHLINE, SEE DWG NO E2.02



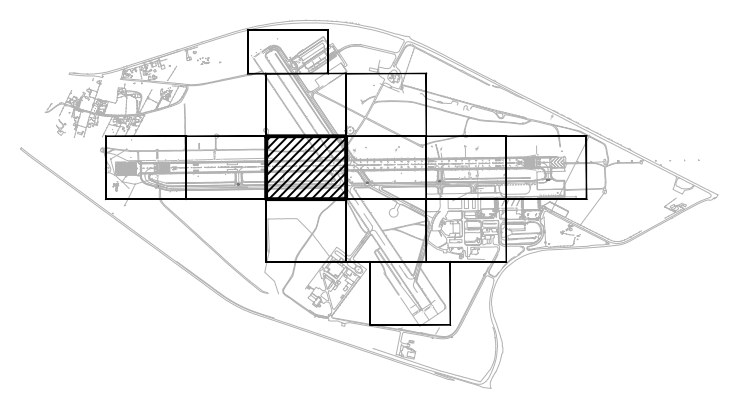
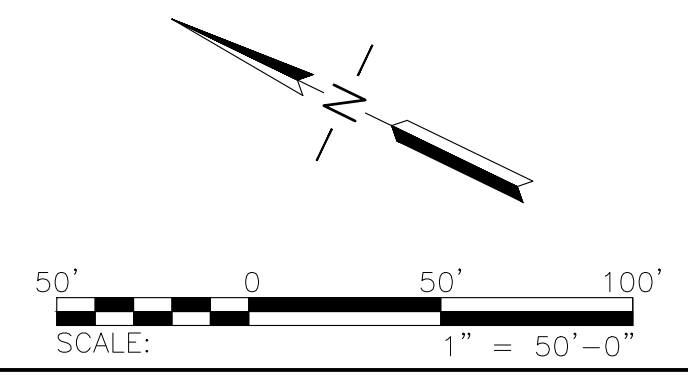
GENERAL NOTES

- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E2.05

MATCHLINE, SEE DWG NO E2.07

MATCHLINE, SEE DWG NO E2.10



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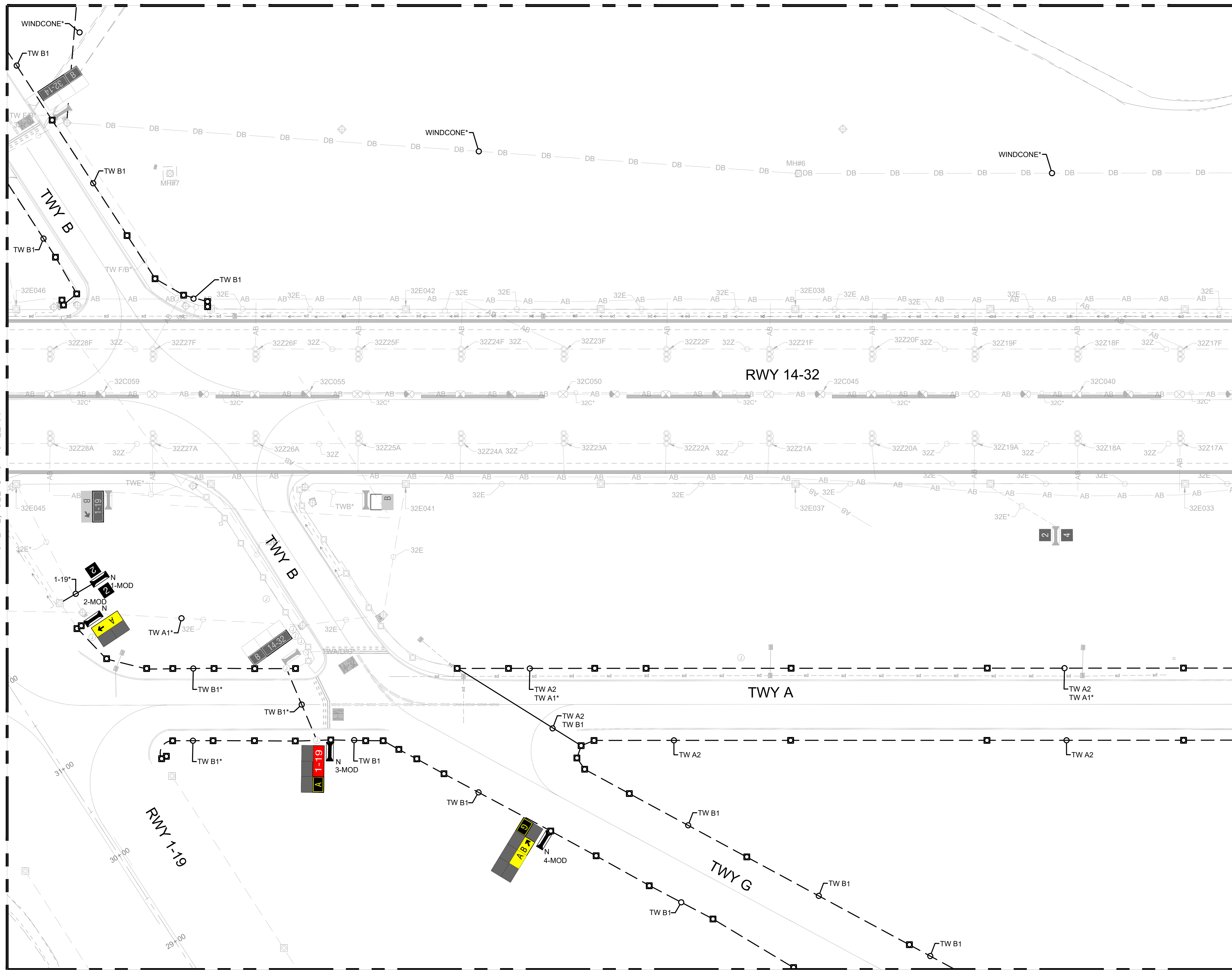
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**AIRFIELD LIGHTING
 NEW PLAN 6**

Sheet: **E2.06**

MATCHLINE, SEE DWG NO E2.03



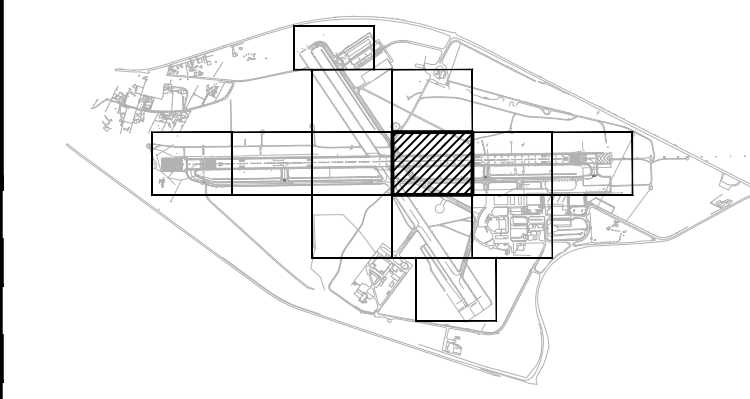
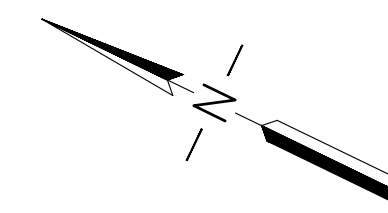
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GENERAL NOTES

- 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E2.06

MATCHLINE, SEE DWG NO E2.08

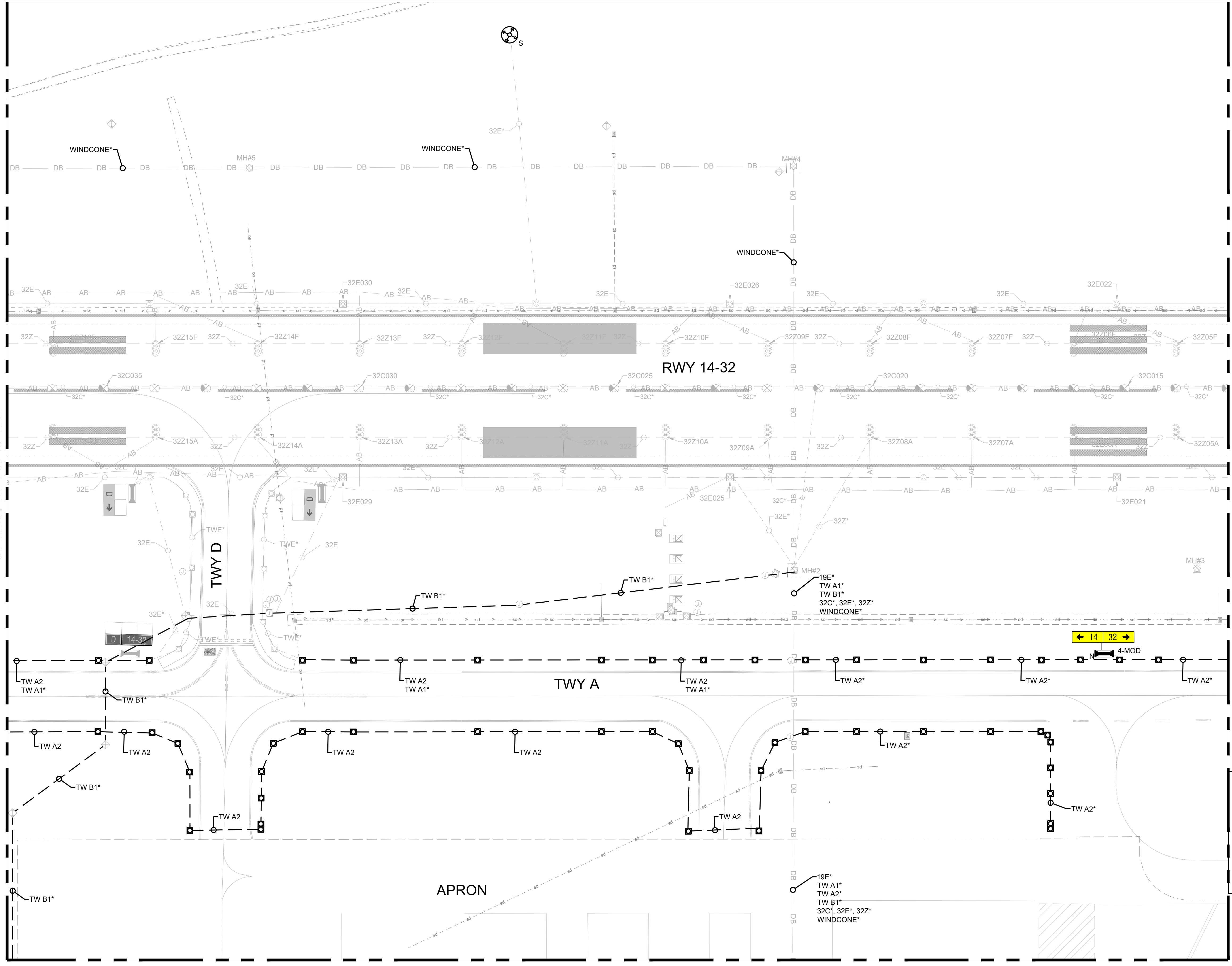


No.	Revision	Date	By

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Date: 12/2022
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Drawn: KV
Checked: JA
Approved: DL

**AIRFIELD
LIGHTING
NEW PLAN 7**



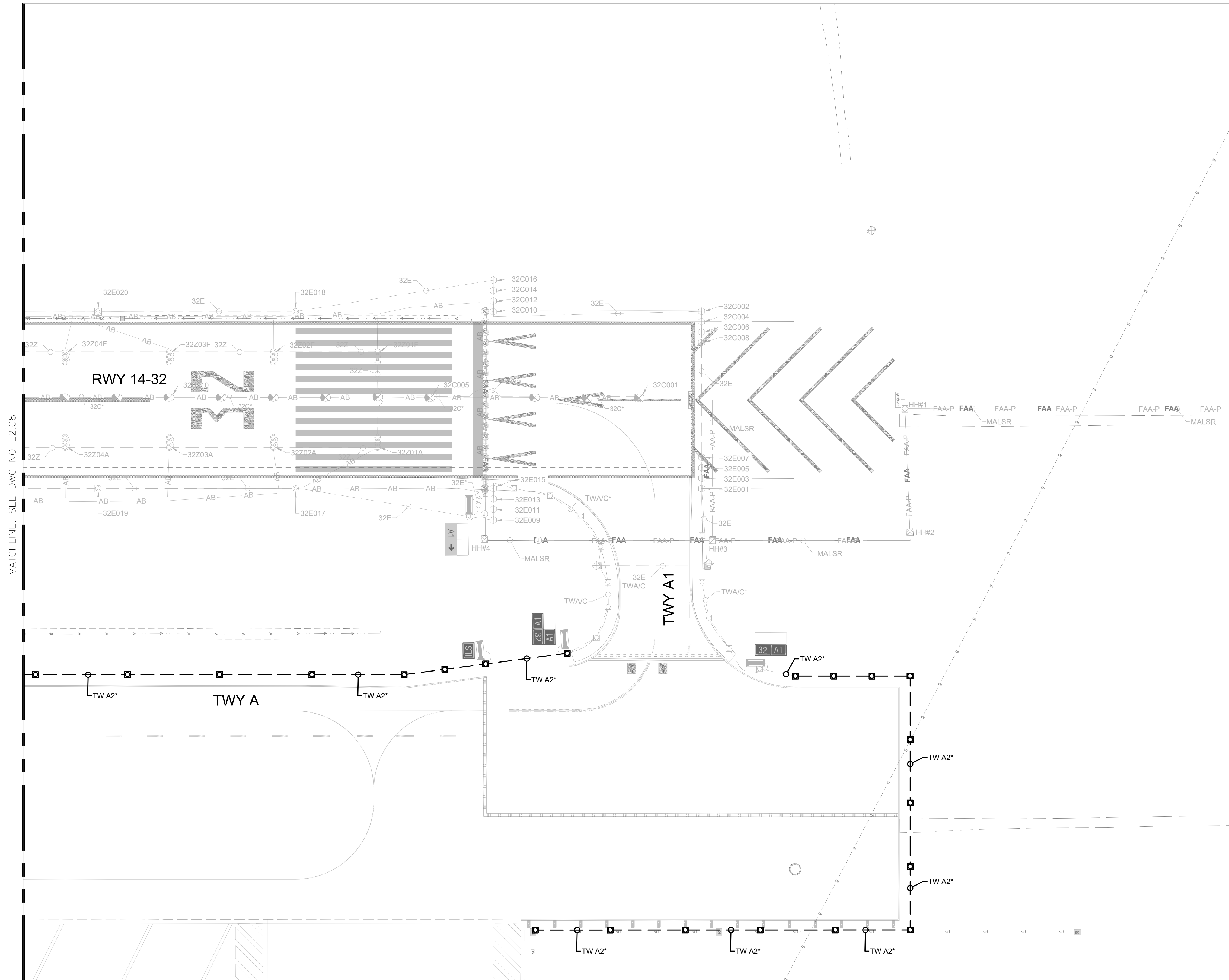
GENERAL NOTES
 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

No.	Revision	Date	By

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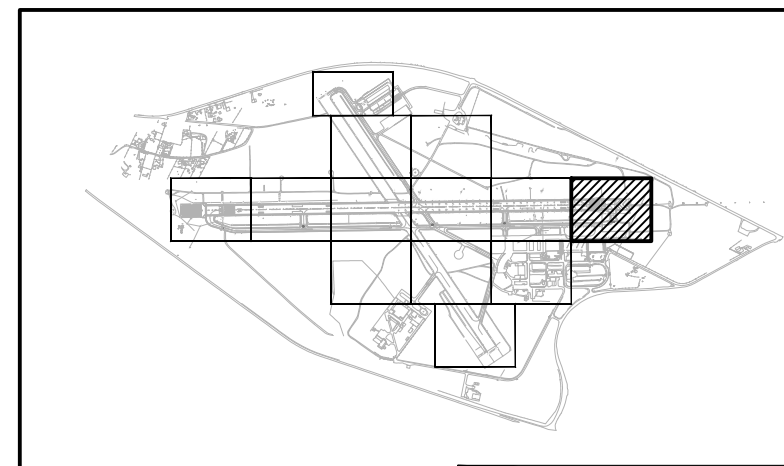
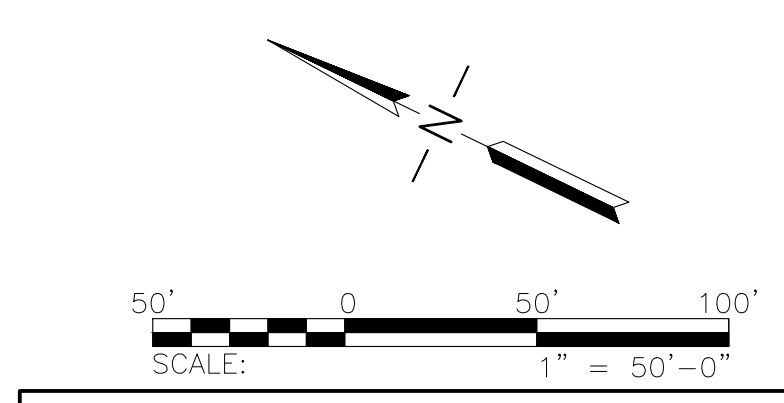
Drawn: KV
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AIRFIELD LIGHTING
NEW PLAN 8



MATCHLINE, SEE DWG NO E2.08

GENERAL NOTES
 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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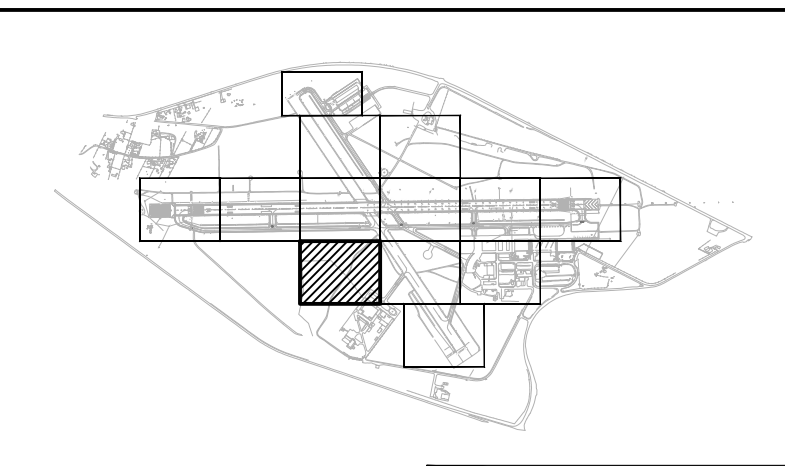
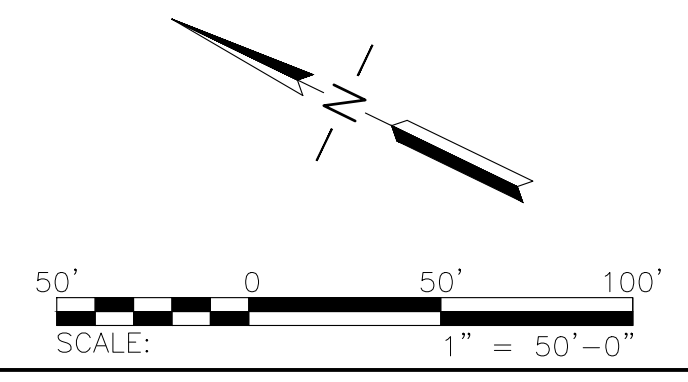
Drawn: KV
 Checked: JA
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**AIRFIELD LIGHTING
 NEW PLAN 9**

Sheet: **E2.09**



- GENERAL NOTES**
- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.
 - THIS SHEET IS FOR REFERENCE ONLY.



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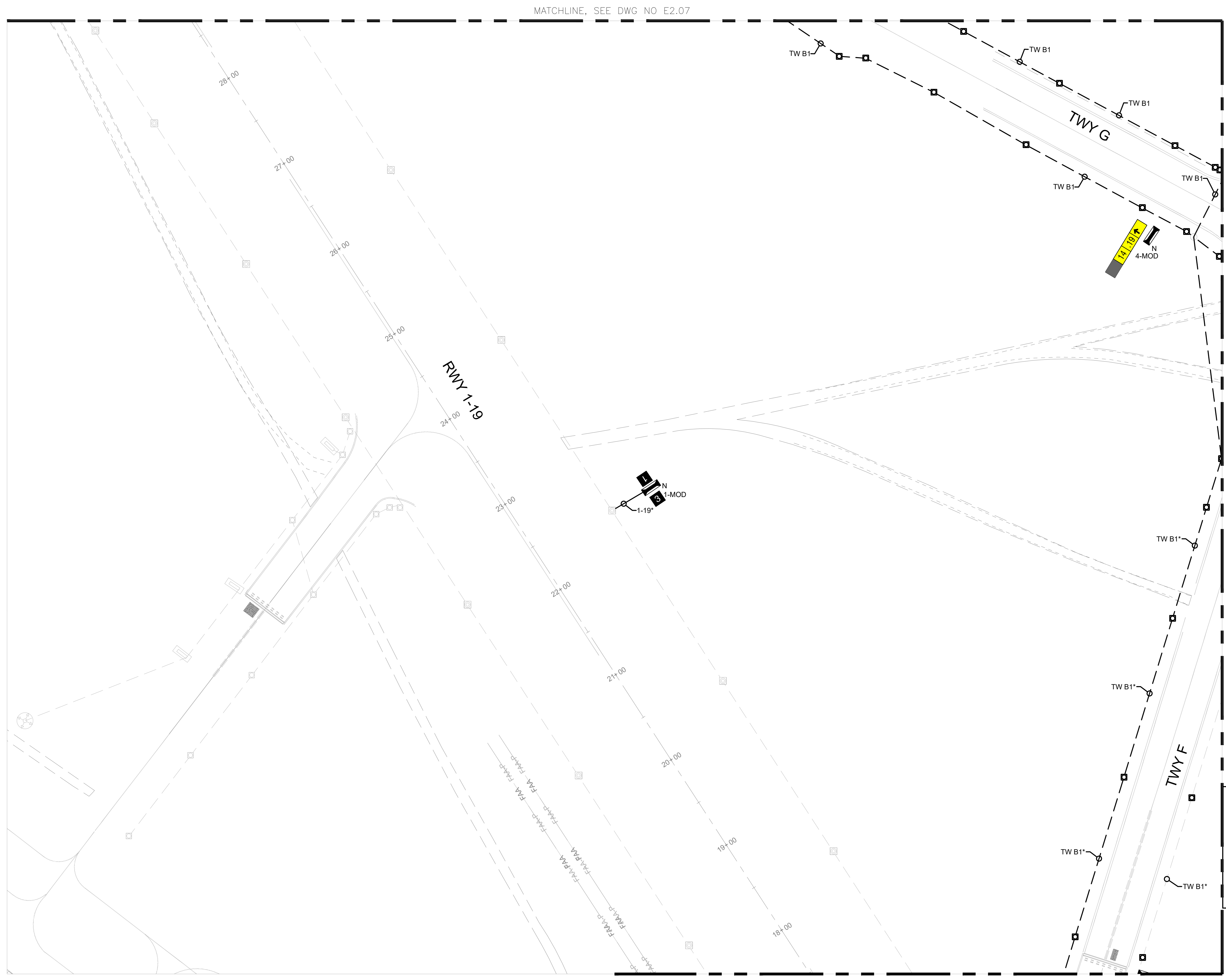
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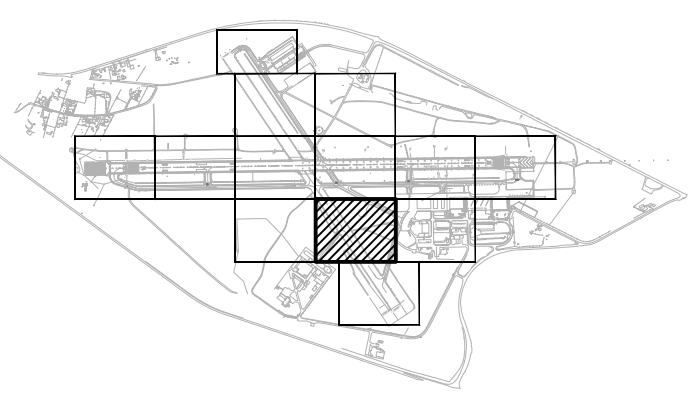
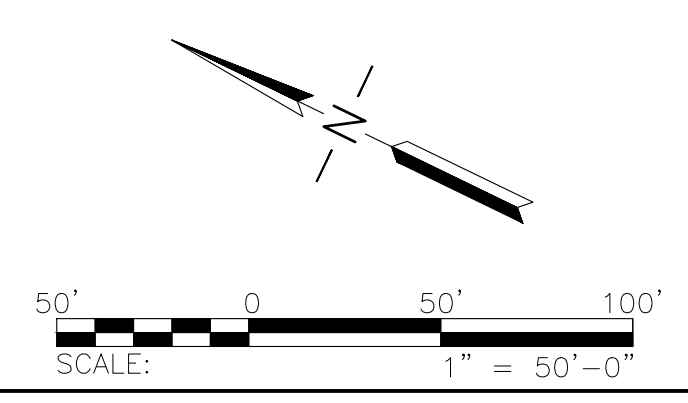
**AIRFIELD
 LIGHTING NEW
 PLAN 10**

Sheet: **E2.10**



GENERAL NOTES
 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

MATCHLINE, SEE DWG NO E2.12



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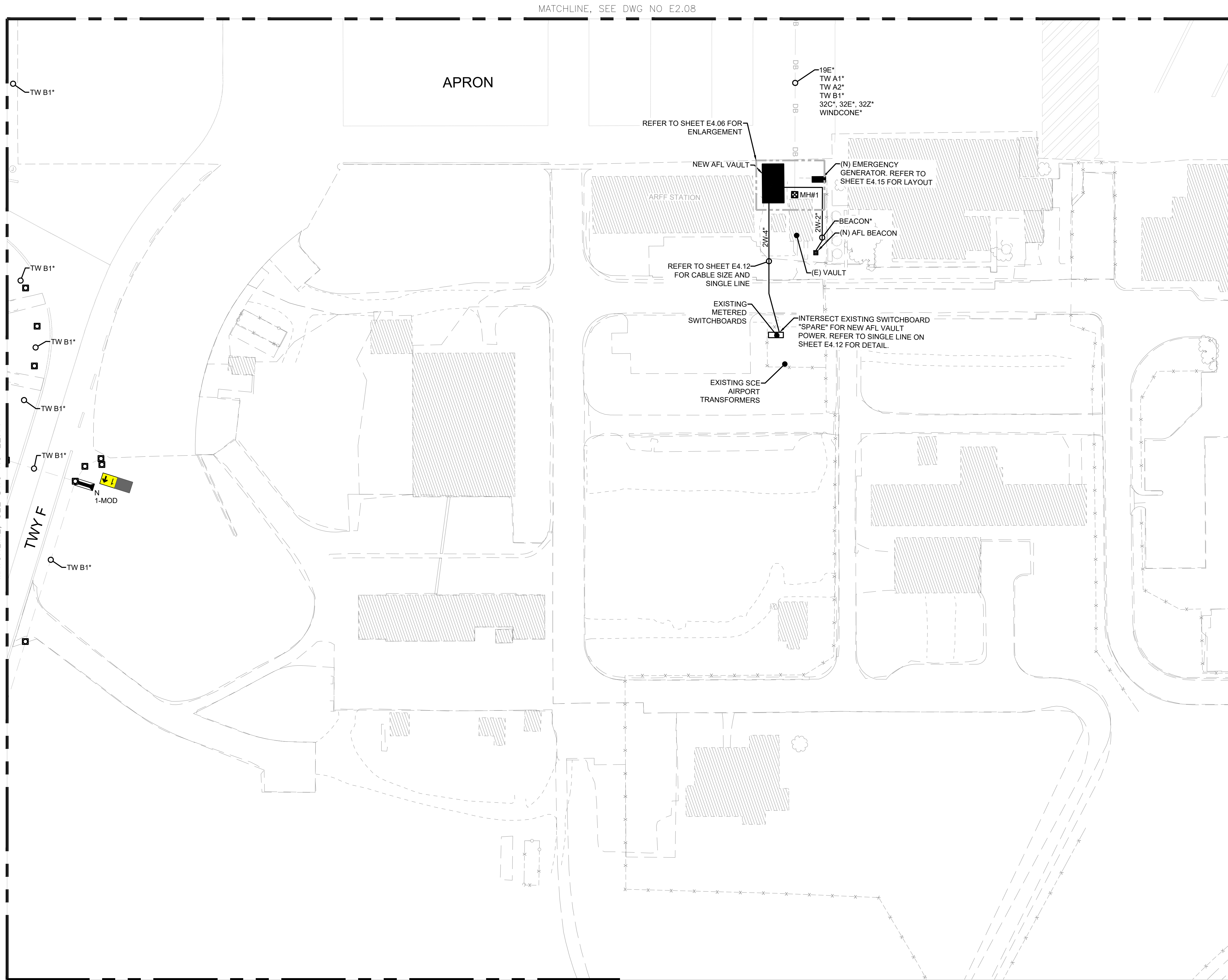
No.	Revision	Date	By

ACI No. XXXXX
 Date: 12/2022
 File Name: FILE NAME

Drawn: KV
 Checked: JA
 Approved: DL

AIRFIELD LIGHTING
NEW PLAN 11

Sheet: **E2.11**



MATCHLINE, SEE DWG NO E2.08

APRON

MATCHLINE, SEE DWG NO E2.11

TWY F

N 1-MOD

REFER TO SHEET E4.06 FOR ENLARGEMENT

19E*
TW A1*
TW A2*
TW B1*
32C*, 32E*, 32Z*
WINDCONE*

NEW AFL VAULT

(N) EMERGENCY GENERATOR. REFER TO SHEET E4.15 FOR LAYOUT

REFER TO SHEET E4.12 FOR CABLE SIZE AND SINGLE LINE

EXISTING METERED SWITCHBOARDS
INTERSECT EXISTING SWITCHBOARD "SPARE" FOR NEW AFL VAULT POWER. REFER TO SINGLE LINE ON SHEET E4.12 FOR DETAIL.

EXISTING SCE AIRPORT TRANSFORMERS

ARFF STATION

MH#1

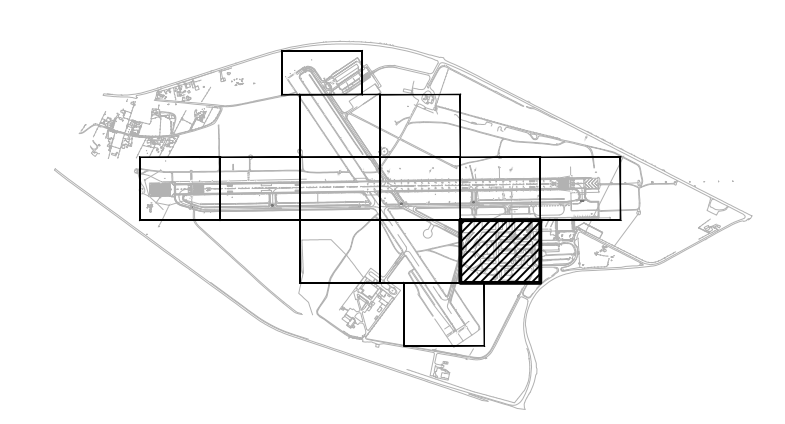
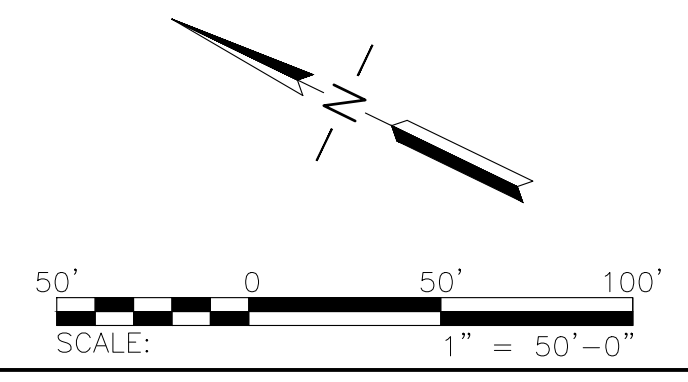
BEACON*

(N) AFL BEACON

(E) VAULT

GENERAL NOTES

- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



MATCHLINE, SEE DWG NO E2.13



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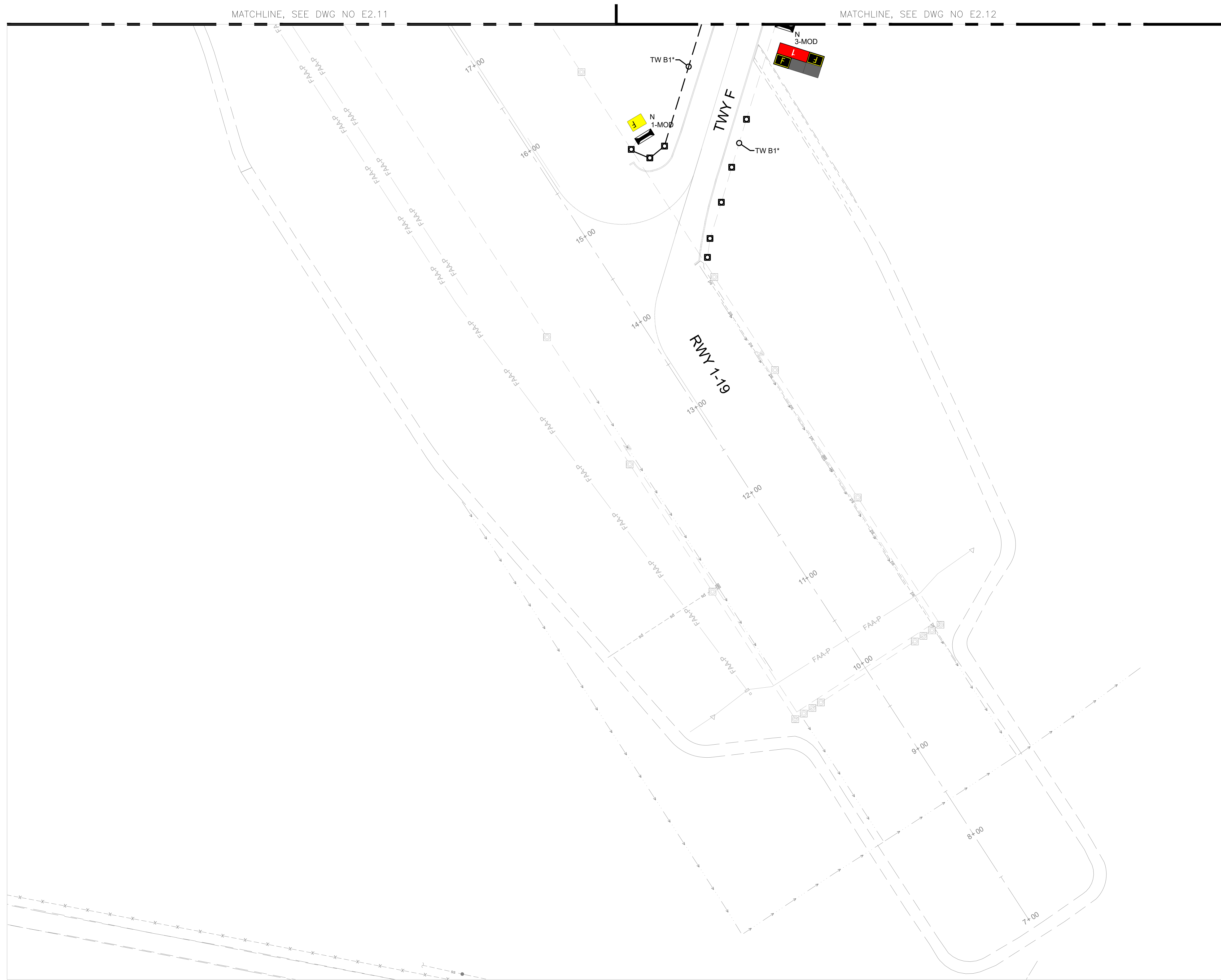
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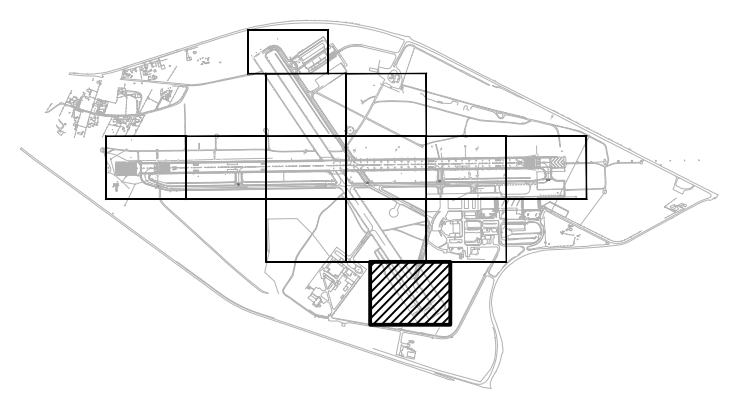
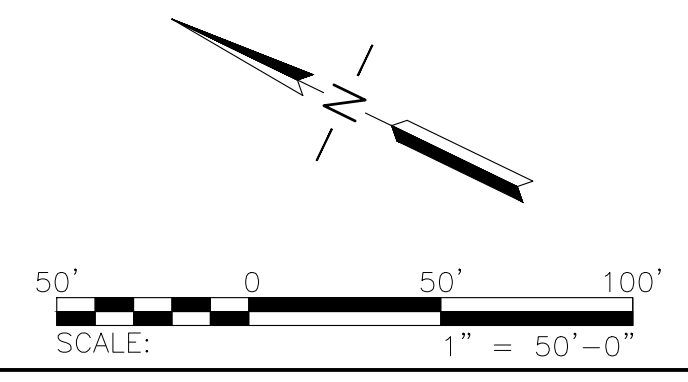
Drawn: KV
Checked: JA
Approved: DL

AIRFIELD LIGHTING NEW PLAN 12

Sheet: **E2.12**



GENERAL NOTES
 1. SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



LEAN
 ENGINEERING
 20 EXECUTIVE PARK, SUITE 155, IRVINE, CA 92614
 PHONE: 949-502-9687
 WWW.LEANCORP.COM

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 ENGINEERING CONSTRUCTION
 PLANNING
 www.armstrongconstruction.com

CALIFORNIA REDWOOD COAST
 HUMBOLDT COUNTY AIRPORT
 MCKINLEYVILLE, CA
 TWY A LIGHTING AND VAULT REHAB
 AIP No. 3-06-0010-053-2022

No.	Revision	Date	By

ACI No. XXXXX
 Date: 12/2022
 File Name: FILE NAME

Drawn: KV
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 Approved: DL

AIRFIELD LIGHTING NEW PLAN 13



1 AIRPORT METERS
SCALE: NTS



2 EXISTING VAULT ENTRANCE
SCALE: NTS



3 EXISTING VAULT ENTRANCE
SCALE: NTS



4 EXISTING VAULT AND GENERATOR ROOM
SCALE: NTS



5 EXISTING VAULT AND FENCE LINE
SCALE: NTS



6 EXISTING VAULT, GENERATOR ROOM, AND ARFF STATION
SCALE: NTS



7 EXISTING VAULT INTERIOR
SCALE: NTS



7 EXISTING VAULT INTERIOR
SCALE: NTS



6 INTERIOR FIRST HANDHOLE (MH#1)
SCALE: NTS

GENERAL NOTES

- SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

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**SITE VISIT
PICTURES 1**



1 AREA FOR FUTURE BEACON
SCALE: NTS



2 EXISTING BEACON
SCALE: NTS



3 EXISTING BEACON HANDHOLE
SCALE: NTS



4 14-32 NORTH WINDCONE
SCALE: NTS



5 1-19 WINDCONE
SCALE: NTS



6 14-32 SOUTH WINDCONE
SCALE: NTS



7 UNLIGHTED SIGN
SCALE: NTS

GENERAL NOTES

- SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



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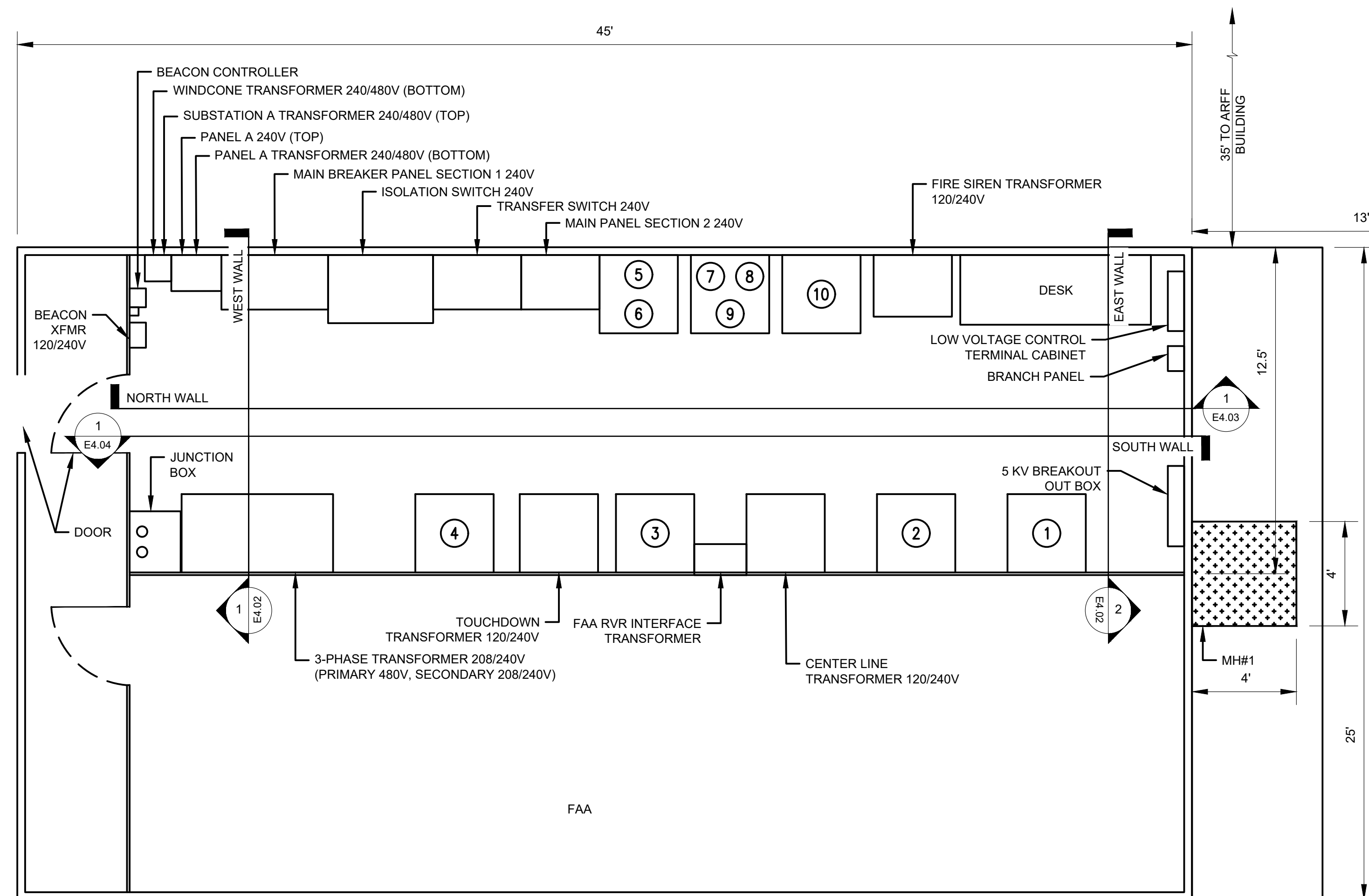
**SITE VISIT
PICTURES 2**

Sheet: **E3.02**

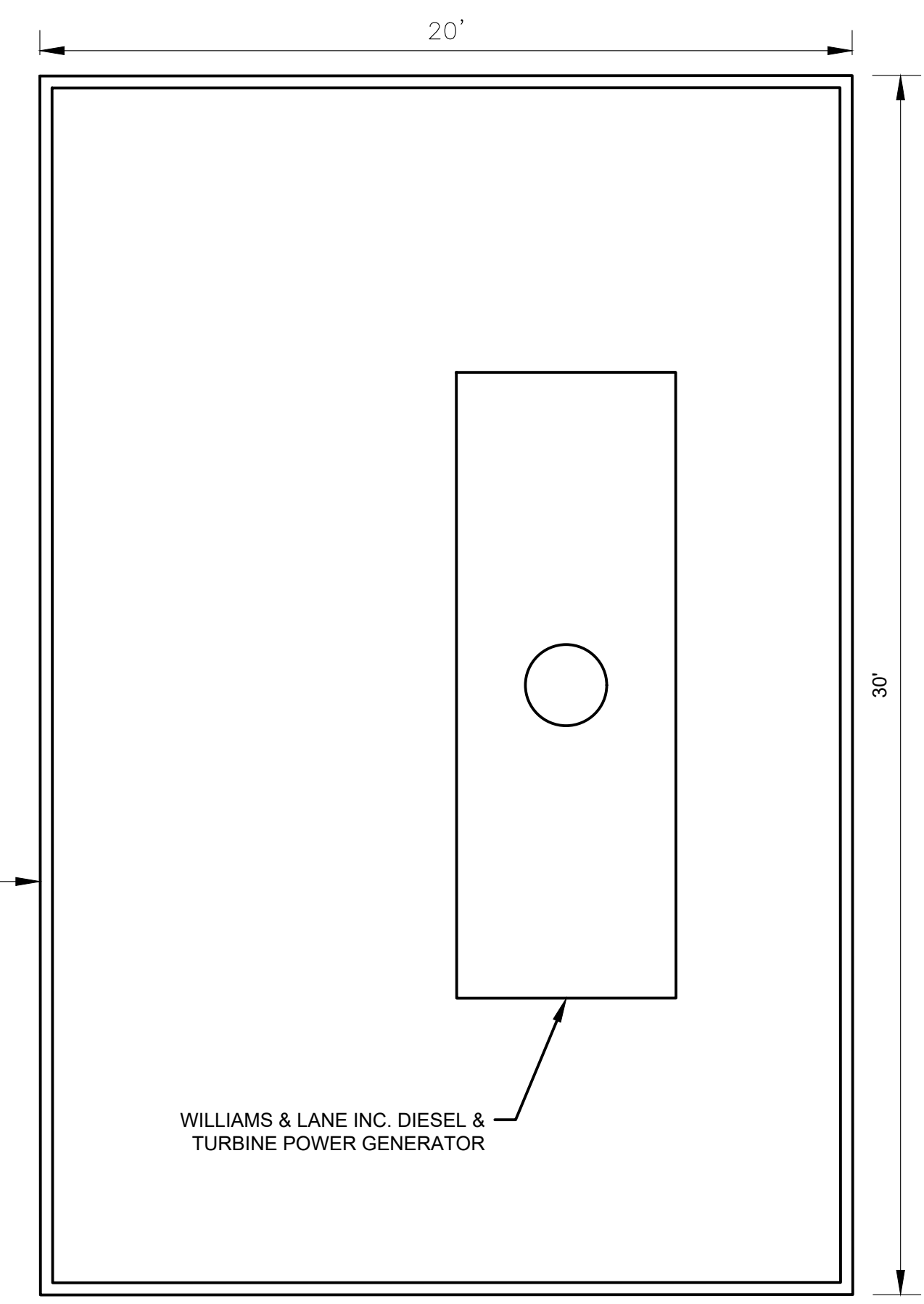
GENERAL NOTES

- SEE SHEET E0.01 FOR ELECTRICAL NOTES AND ABBREVIATIONS

CCR SCHEDULE									
CCR NO.	CIRCUITING	DESCRIPTION	OUTPUT WATTAGE (KW)	STEPS	OUTPUT CURRENT (A)	INPUT VOLTAGE (V)	INPUT CURRENT (A)	SERIAL NO.	COMMENTS
1	-	-	20	5	6.6	240	91	33	MALFUNCTIONED
2	32E	RUNWAY 12-30 RWY EDGE LIGHTS	20	5	6.6	240	92	3117	
3	32C	RUNWAY 12-30 RWY CENTER LINE LIGHTS	50	5	20	2400	23	423	MALFUNCTIONED
4	32Z	RUNWAY 12-30 RWY TOUCHDOWN ZONE LIGHTS	50	5	20	2400	23	414	MALFUNCTIONED
5	TWA/E	TWY A & E EDGE LIGHTS	7.5	3	6.6	240	36	1376	MALFUNCTIONED
6	-	TWY A & E EDGE LIGHTS	7.5	3	6.6	240	36	-	MALFUNCTIONED
7	TWF/B	TWY B & F EDGE LIGHTS	7.5	3	6.6	240	36	-	-
8	TWA/D/G	TWY A, D, & G EDGE LIGHTS	7.5	3	6.6	240	36	-	-
9	TWA/C	TWY A & C EDGE LIGHTS	7.5	3	6.6	240	36	-	-
10	-	RUNWAY 1-19 EDGE LIGHTS	7.5	3	6.6	240	36	75-NS10170-3	-



1 EXISTING AIRFIELD LIGHTING VAULT LAYOUT
SCALE: 3-1/2" = 1'-0"



CALIFORNIA REDWOOD COAST
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Approved: DL

EXISTING AIRFIELD LIGHTING VAULT LAYOUT

No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME


Drawn: KV
Checked: JA
Approved: DL

**EXISTING WALL
ELEVATION
(WEST & EAST)**

GENERAL NOTES

- SEE SHEET E0.01 FOR ELECTRICAL NOTES AND ABBREVIATIONS

SHEET LEGEND

 DEMOLISH EXISTING ELECTRICAL EQUIPMENT/CABLES AFTER NEW VAULT IS ENERGIZED AND COMMISSIONED.



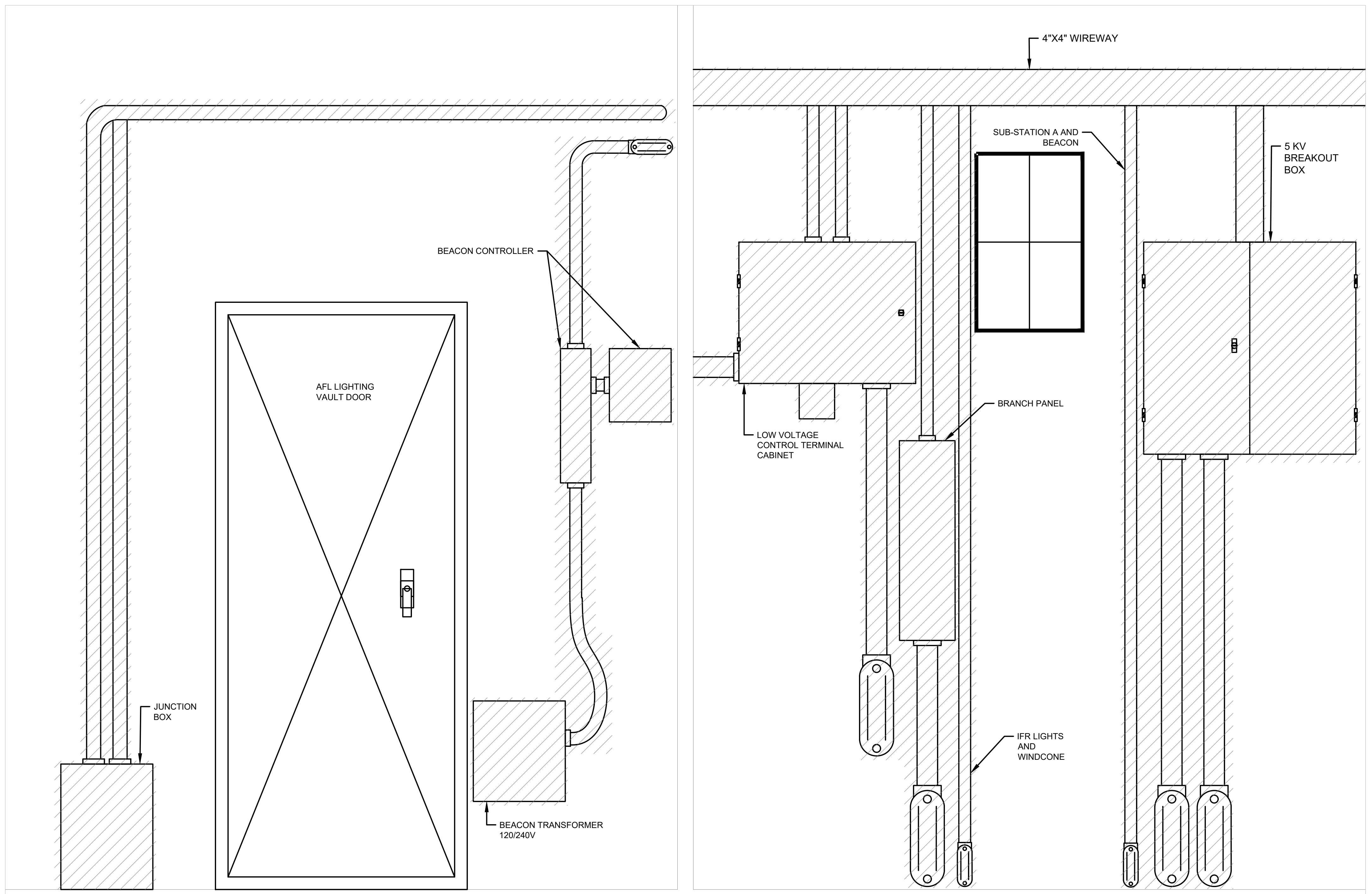
3 EXISTING BREAKOUT BOX (BOB)
SCALE: NTS



4 EXISTING WEST WALL
SCALE: NTS

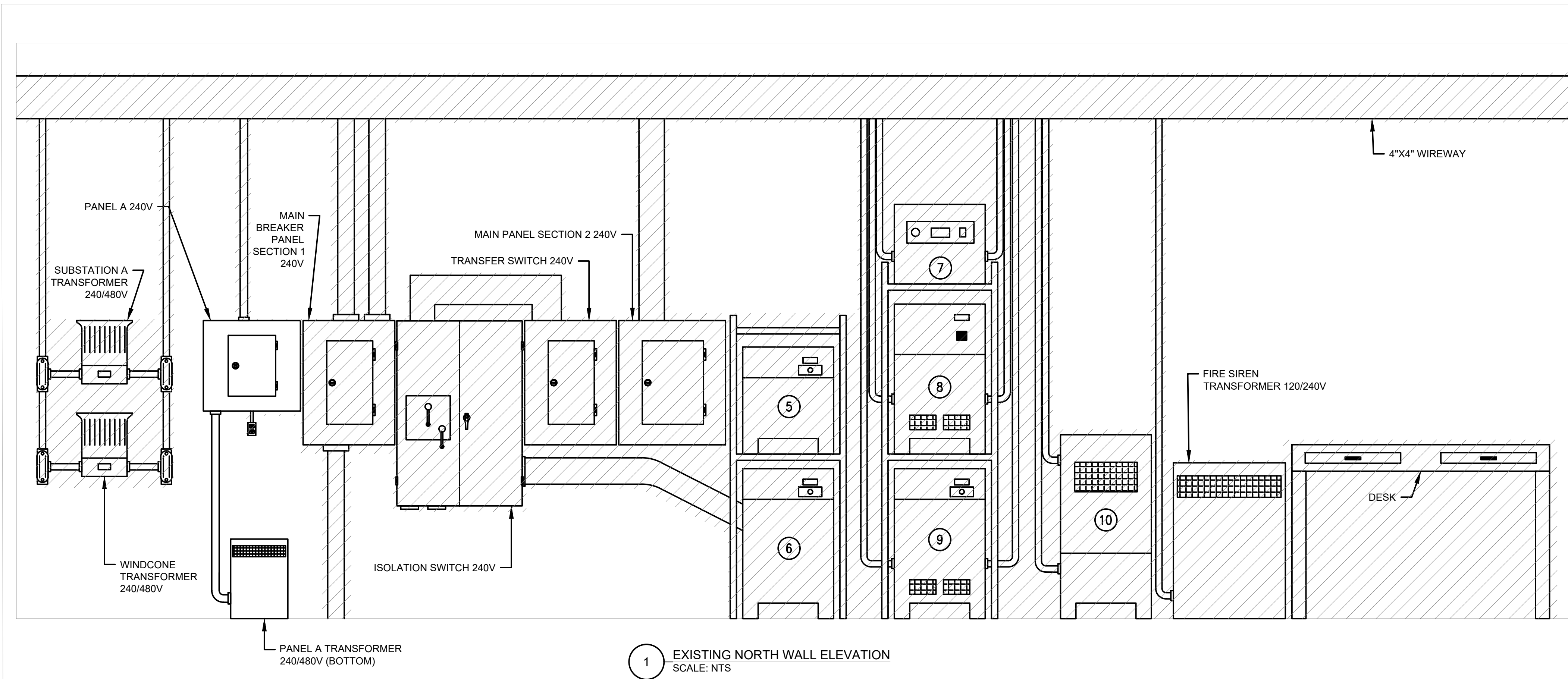


5 EXISTING EAST WALL
SCALE: NTS



1 EXISTING WEST WALL ELEVATION
SCALE: NTS

2 EXISTING EAST WALL ELEVATION
SCALE: NTS



CCR SCHEDULE									
CCR NO.	CIRCUITING	DESCRIPTION	OUTPUT WATTAGE (KW)	STEPS	OUTPUT CURRENT (A)	INPUT VOLTAGE (V)	INPUT CURRENT (A)	SERIAL NO.	COMMENTS
5	TWE	TWY A & E EDGE LIGHTS	7.5	3	6.6	240	36	1376	MALFUNCTIONED
6	TWE	TWY A & E EDGE LIGHTS	7.5	3	6.6	240	36	-	MALFUNCTIONED
7	TWE	TWY B & F EDGE LIGHTS	7.5	3	6.6	240	36	-	-
8	TWE	TWY A, D, & G EDGE LIGHTS	7.5	3	6.6	240	36	-	-
9	TWE	TWY A & C EDGE LIGHTS	7.5	3	6.6	240	36	-	-
10	-	RUNWAY 1-19 EDGE LIGHTS	7.5	3	6.6	240	36	75-NS10170-3	-



6 TWY CCR SECTION 2
SCALE: NTS



5 TWY CCR SECTION 1
SCALE: NTS

GENERAL NOTES

- SEE SHEET E0.01 FOR ELECTRICAL NOTES AND ABBREVIATIONS

SHEET LEGEND

DEMOLISH EXISTING ELECTRICAL EQUIPMENT/CABLES AFTER NEW VAULT IS ENERGIZED AND COMMISSIONED.



2 EXISTING PANEL A AND MAIN BREAKER PANEL SECTION 1
SCALE: NTS



3 MAIN BREAKER PANEL SECTION 1
SCALE: NTS



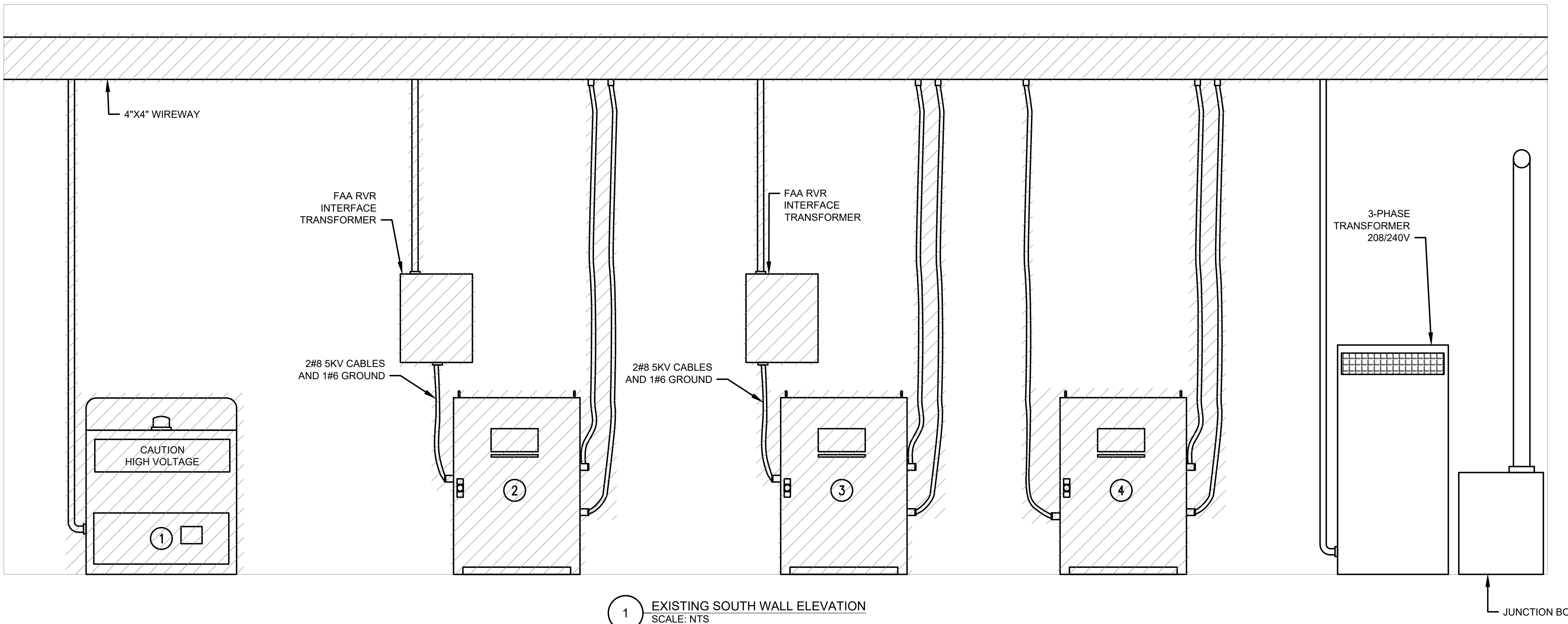
4 MAIN BREAKER PANEL SECTION 2
SCALE: NTS

No.	Revision	Date	By

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Checked: JA
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EXISTING NORTH WALL ELEVATION



1 EXISTING SOUTH WALL ELEVATION
SCALE: NTS

CCR SCHEDULE									
CCR NO.	CIRCUITING	DESCRIPTION	OUTPUT WATTAGE (KW)	STEPS	OUTPUT CURRENT (A)	INPUT VOLTAGE (V)	INPUT CURRENT (A)	SERIAL NO.	COMMENTS
1	-	-	20	5	6.6000	240	91	-	MALFUNCTIONED
2	32E	RUNWAY 14-32 EDGE LIGHTS	10	5	6.6	240	58	-	NEW
3	32C	RUNWAY 14-32 CENTER LINE LIGHTS	10	5	6.6	240	58	-	NEW
4	32Z	RUNWAY 14-32 TOUCHDOWN ZONE LIGHTS	10	5	6.6	240	58	-	NEW

GENERAL NOTES

- SEE SHEET E0.01 FOR ELECTRICAL NOTES AND ABBREVIATIONS

SHEET LEGEND

DEMOLISH EXISTING ELECTRICAL EQUIPMENT/CABLES AFTER NEW VAULT IS ENERGIZED AND COMMISSIONED.

No.	Revision	Date	By

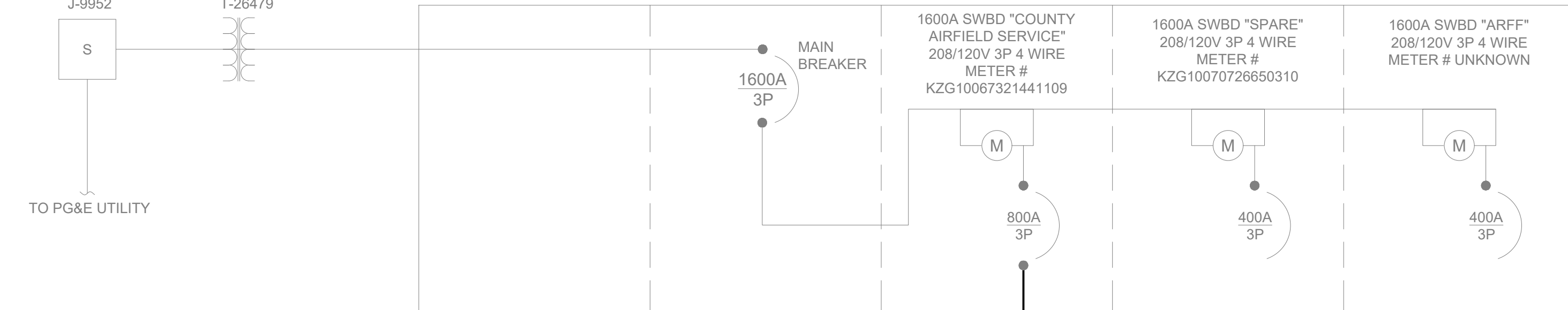
ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
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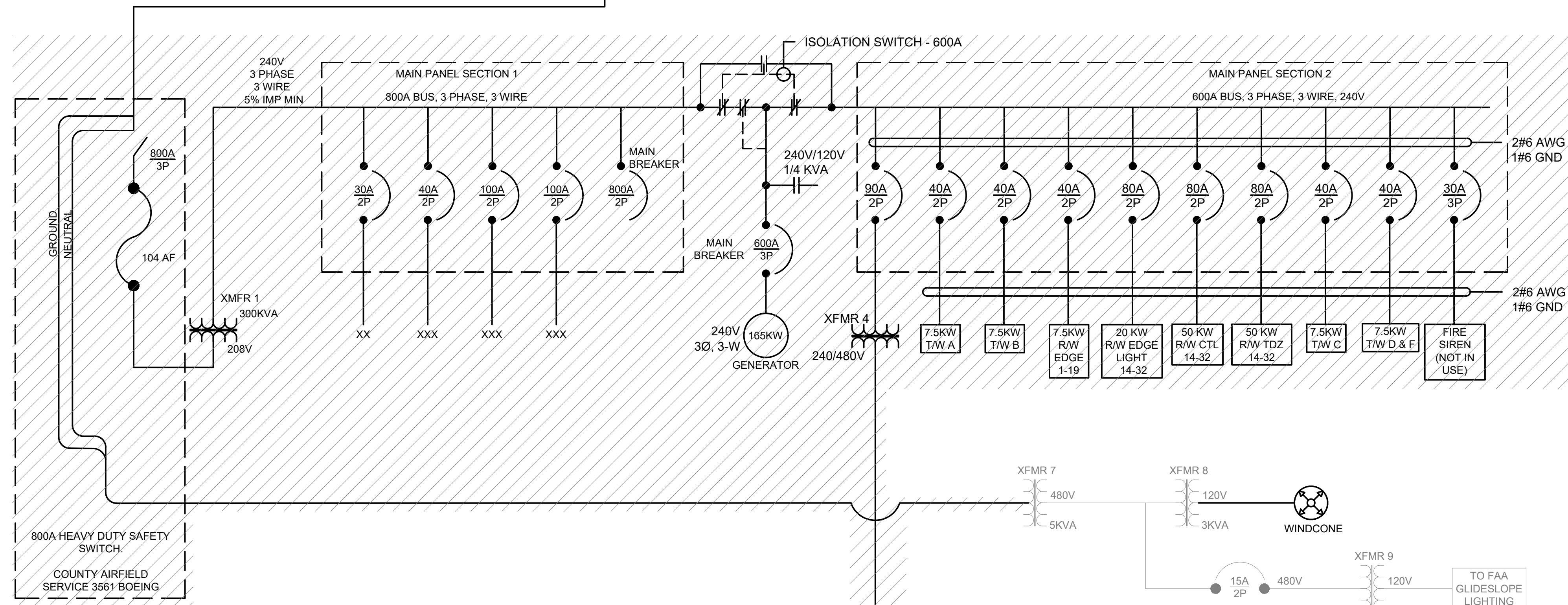
EXISTING SOUTH WALL ELEVATION

PG&E SWITCHPAD J-9952
PG&E TRANSFORMER T-26479

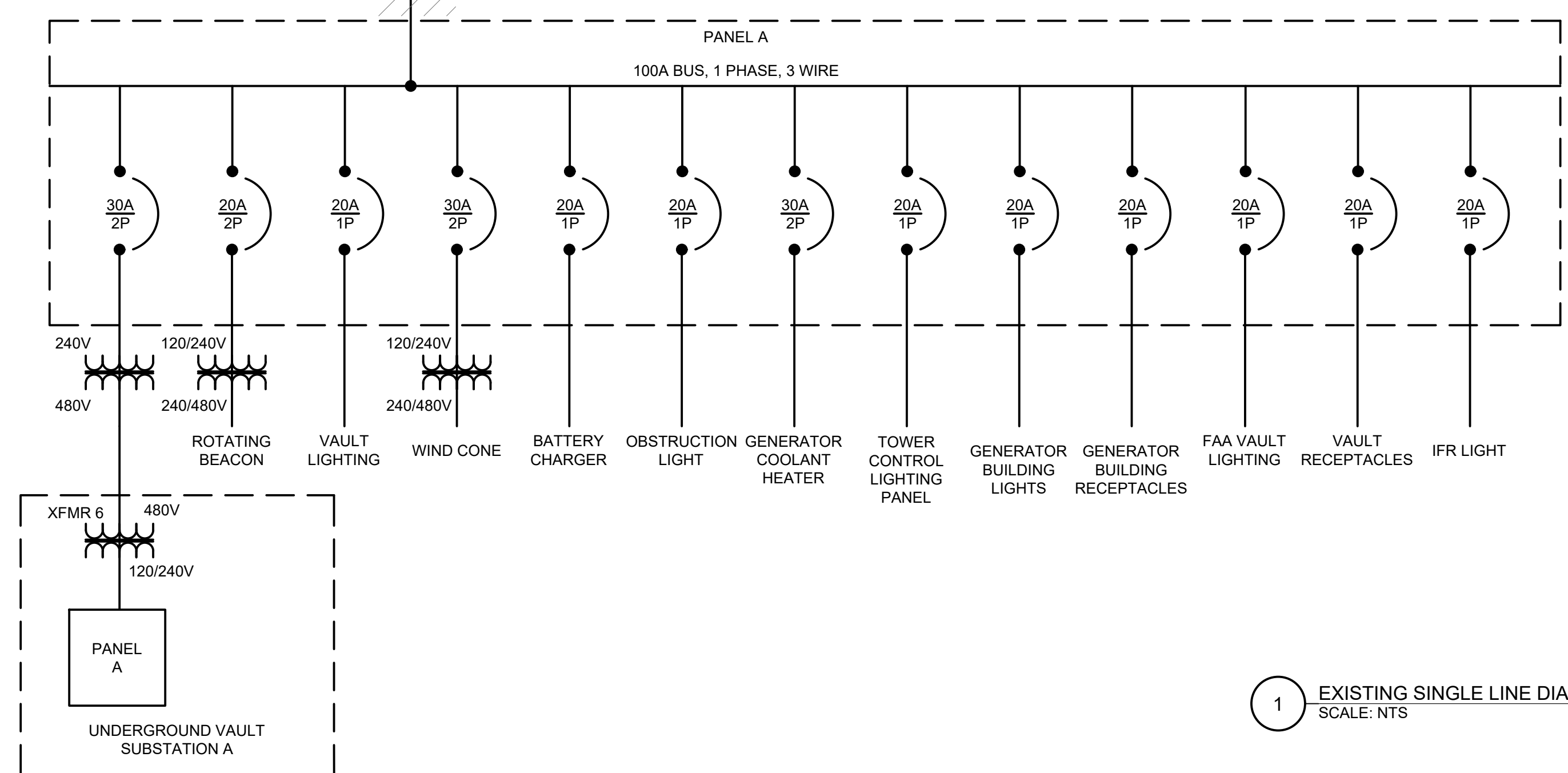
(E) MAIN SWITCHBOARD
208Y/120V, 3 PHASE, 4 WIRE, 1600A



TO PG&E UTILITY



800A HEAVY DUTY SAFETY SWITCH
COUNTY AIRFIELD SERVICE 3561 BOEING



PANEL A
UNDERGROUND VAULT SUBSTATION A

GENERAL NOTES

- SEE SHEET E0.01 FOR ELECTRICAL NOTES AND ABBREVIATIONS

SHEET LEGEND

- EXISTING PG&E SWITCHPAD TO REMAIN
- EXISTING CIRCUIT BREAKER TO BE REMOVED
- EXISTING TRANSFORMER AND SIZE TO BE REMOVED
- EXISTING CLOSED CONTACT TO BE REMOVED
- EXISTING OPEN CONTACT TO BE REMOVED

1 EXISTING SINGLE LINE DIAGRAM
SCALE: NTS



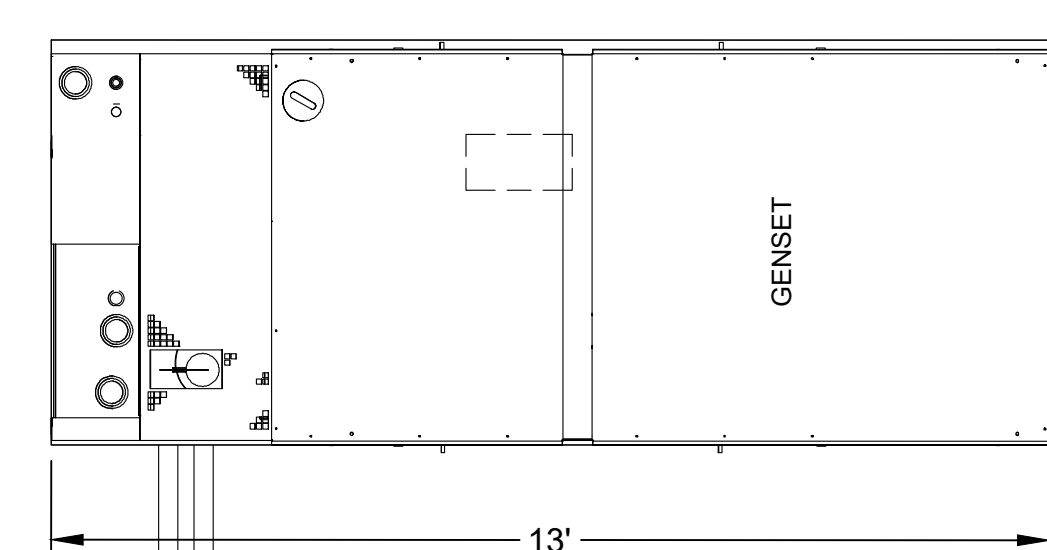
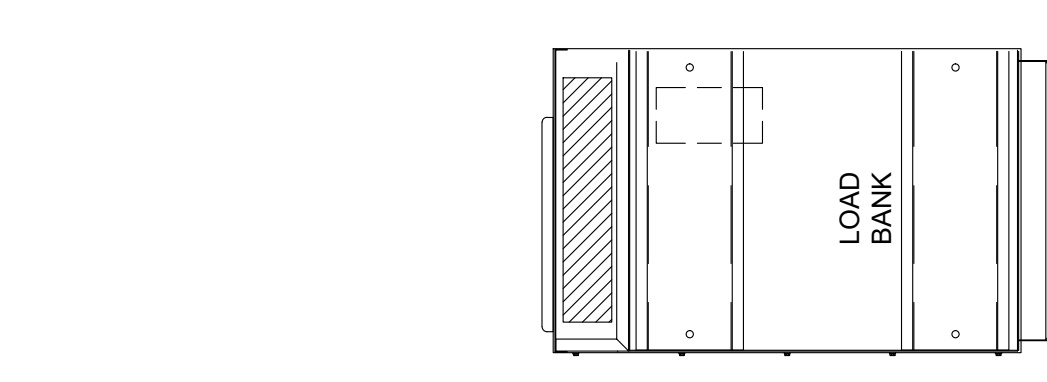
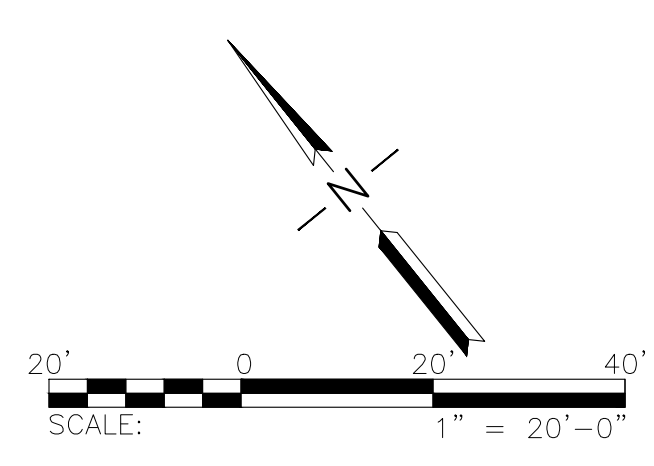
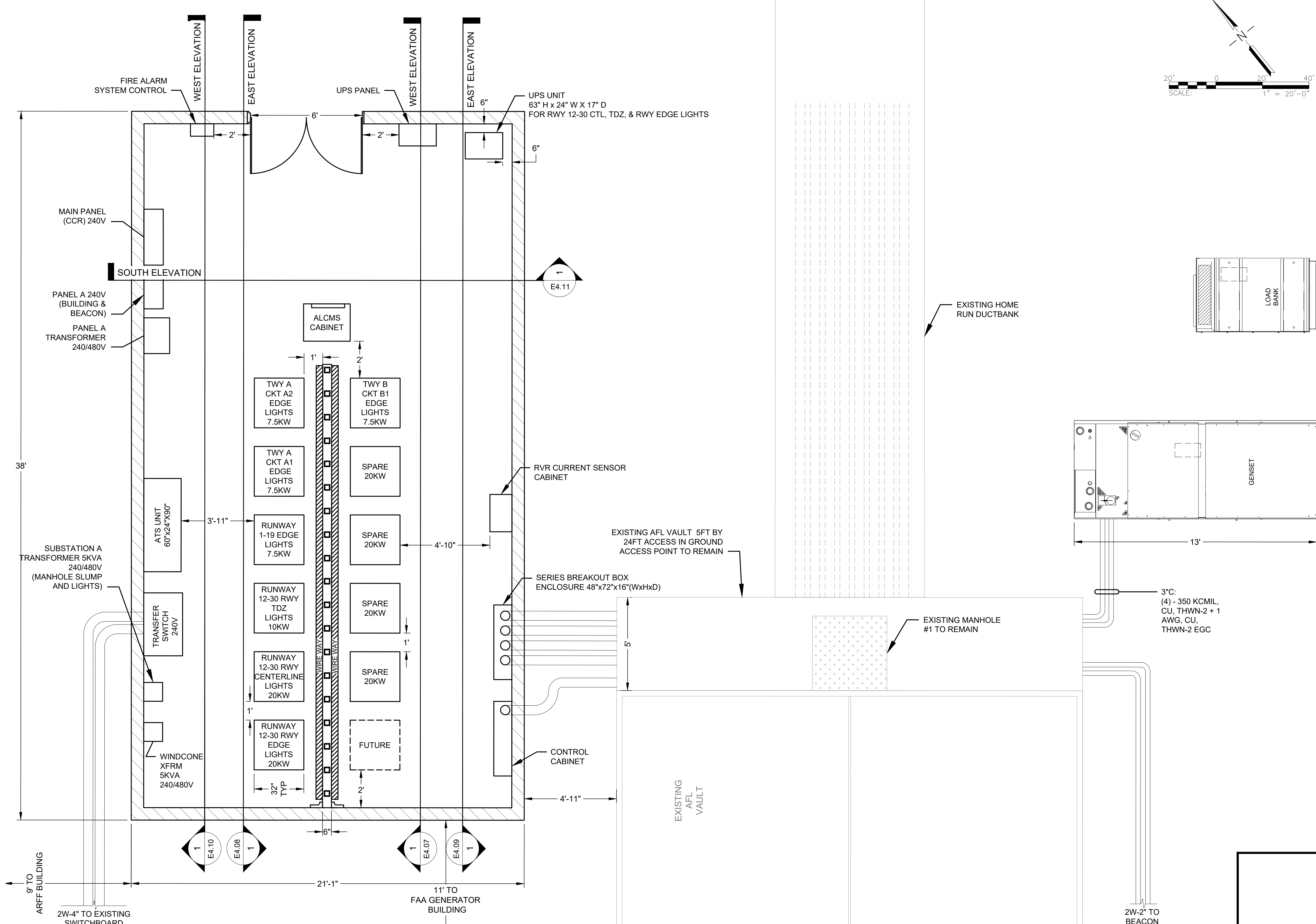
CALIFORNIA REDWOOD COAST
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DEMO SINGLE LINE DIAGRAM



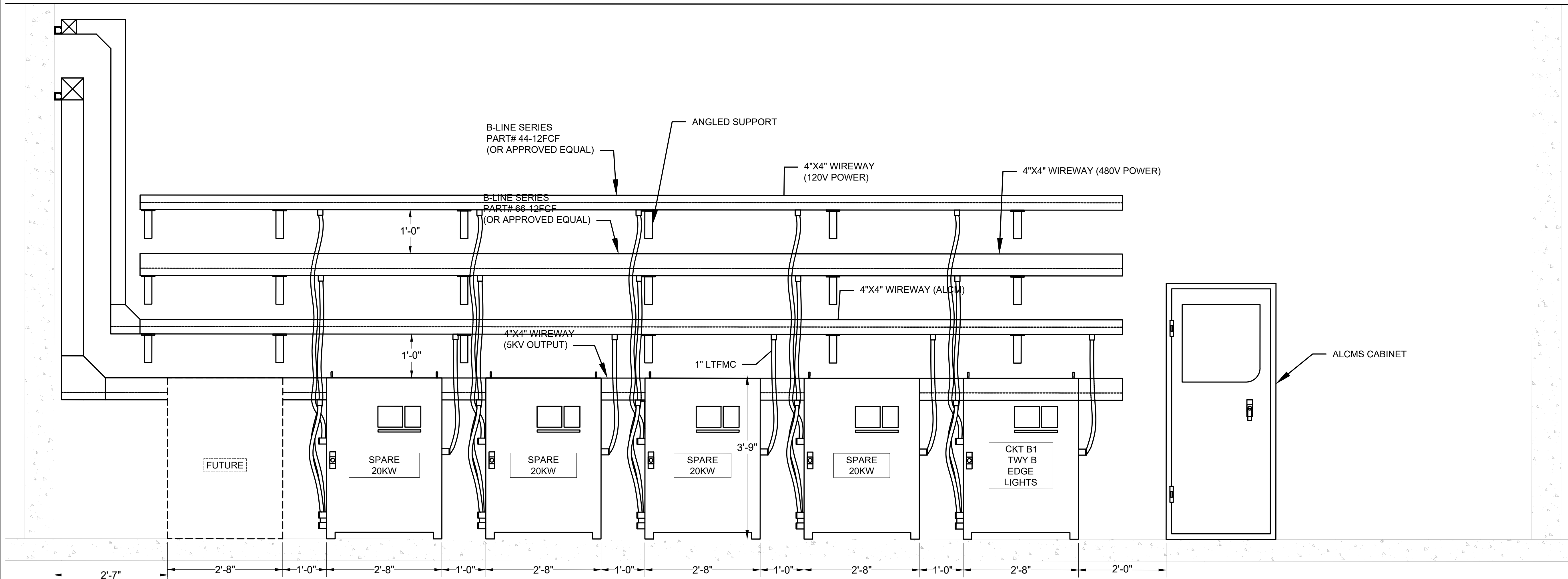
3"C:
(4) - 350 KCMIL,
CU, THWN-2 + 1
AWG, CU,
THWN-2 EGC

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NEW VAULT LAYOUT



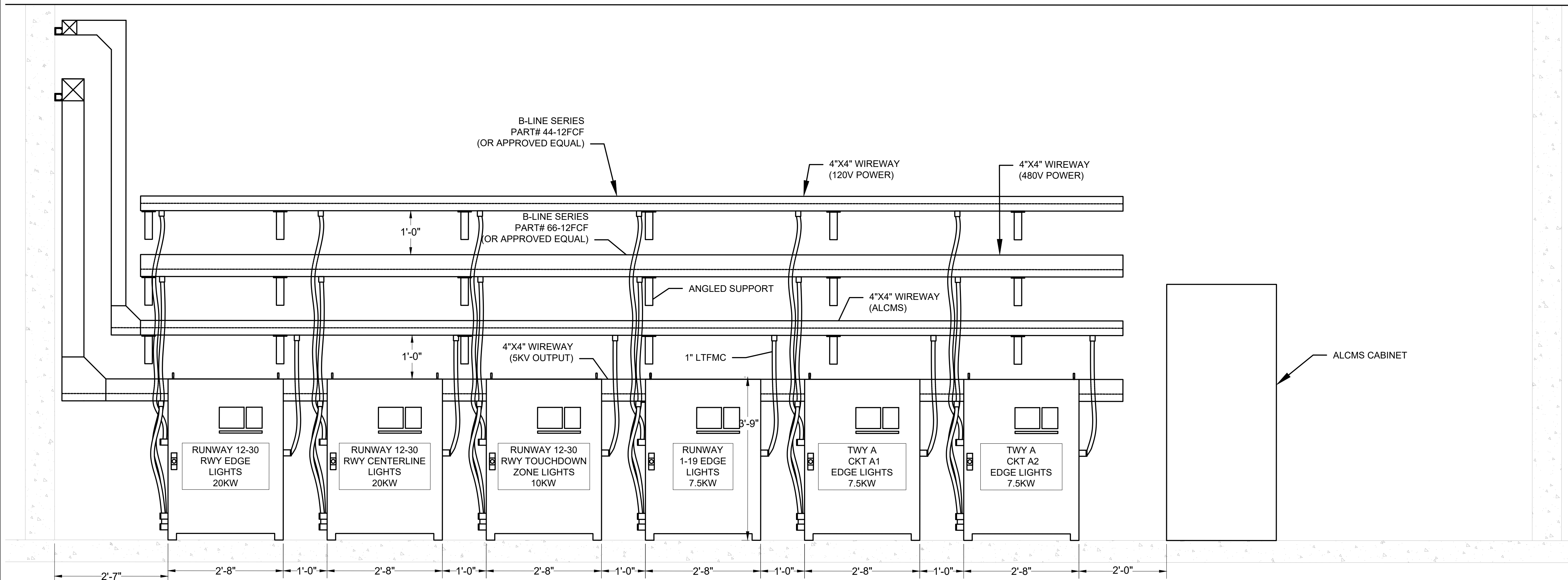
1 WEST WALL (ALCMS AND CCR ELEVATION)
SCALE: NTS

No.	Revision	Date	By

ACI No. XXXXX
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Drawn: KV
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**WEST
ELEVATION**



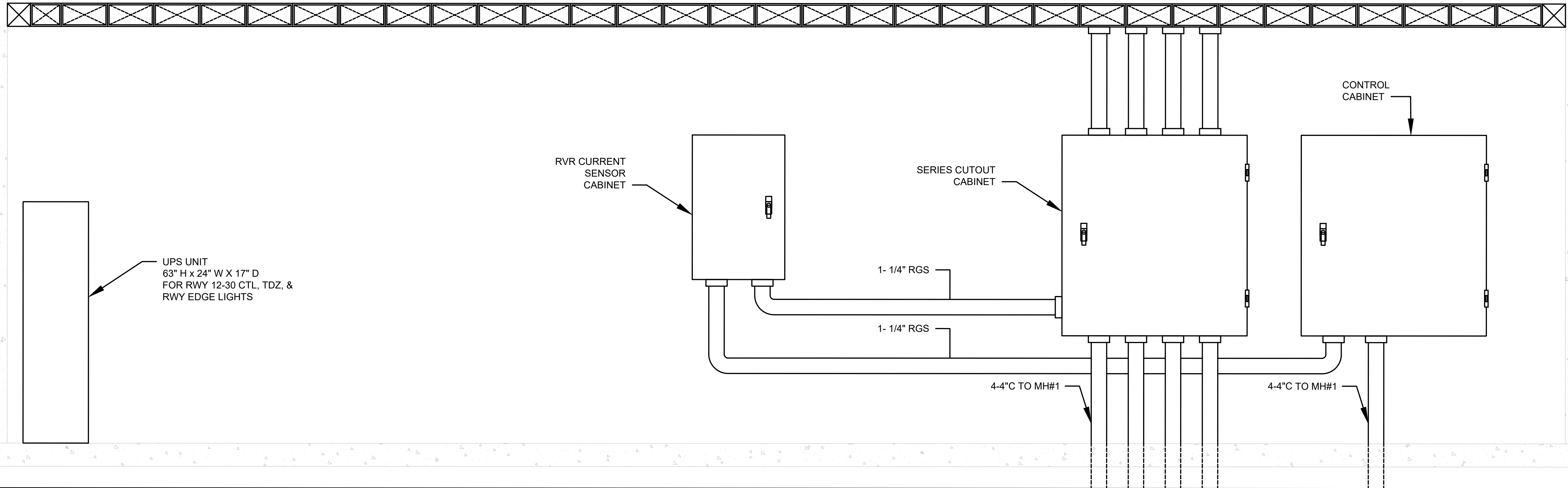
1 EAST WALL (CCR ELEVATION)
SCALE: NTS

No.	Revision	Date	By

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File Name: FILE NAME

Drawn: KV
Checked: JA
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EAST ELEVATION



UPS UNIT
63" H x 24" W x 17" D
FOR RWY 12-30 CTL, TDZ, &
RWY EDGE LIGHTS

RVR CURRENT
SENSOR
CABINET

SERIES CUTOUT
CABINET

CONTROL
CABINET

1- 1/4" RGS

1- 1/4" RGS

4-4"C TO MH#1

4-4"C TO MH#1

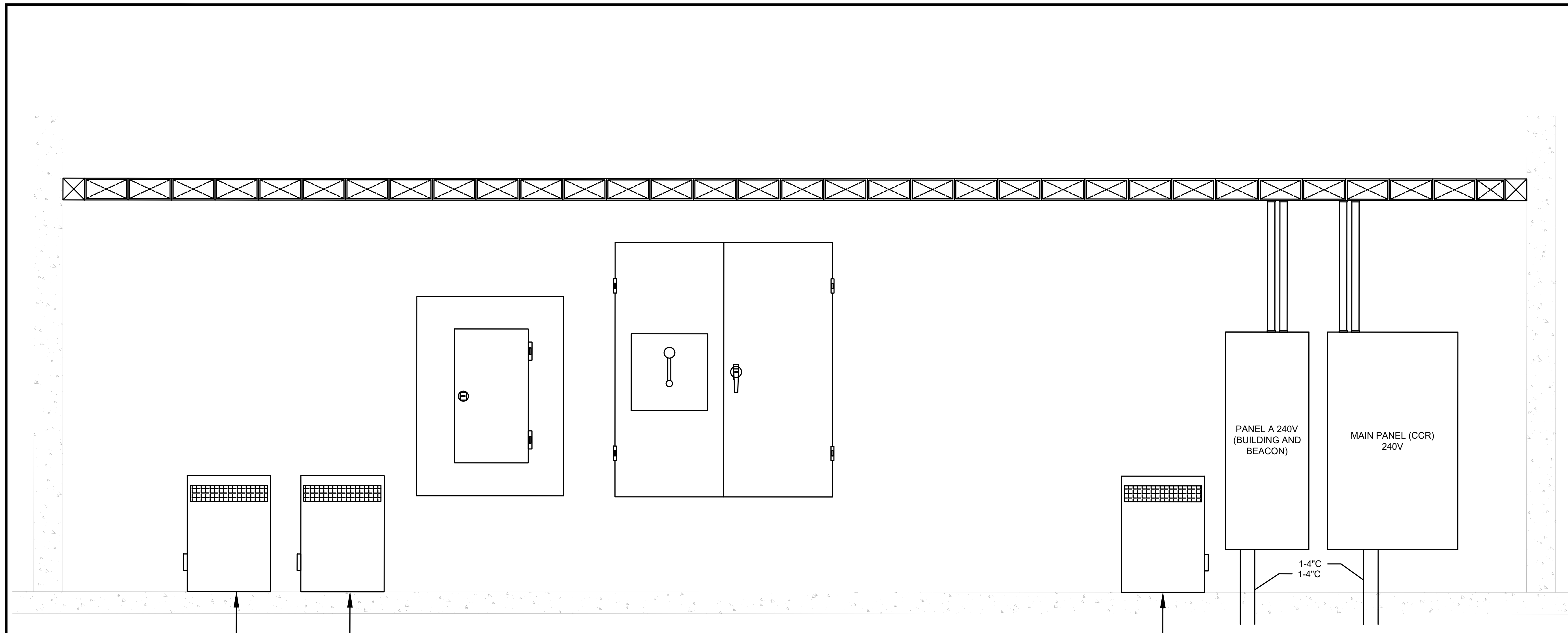
1 EAST WALL (BREAK OUT BOX AND UPS)
SCALE: NTS

No.	Revision	Date	By

ACI No. XXXXX
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Drawn: KV
Checked: JA
Approved: DL

**EAST WALL
ELEVATION**



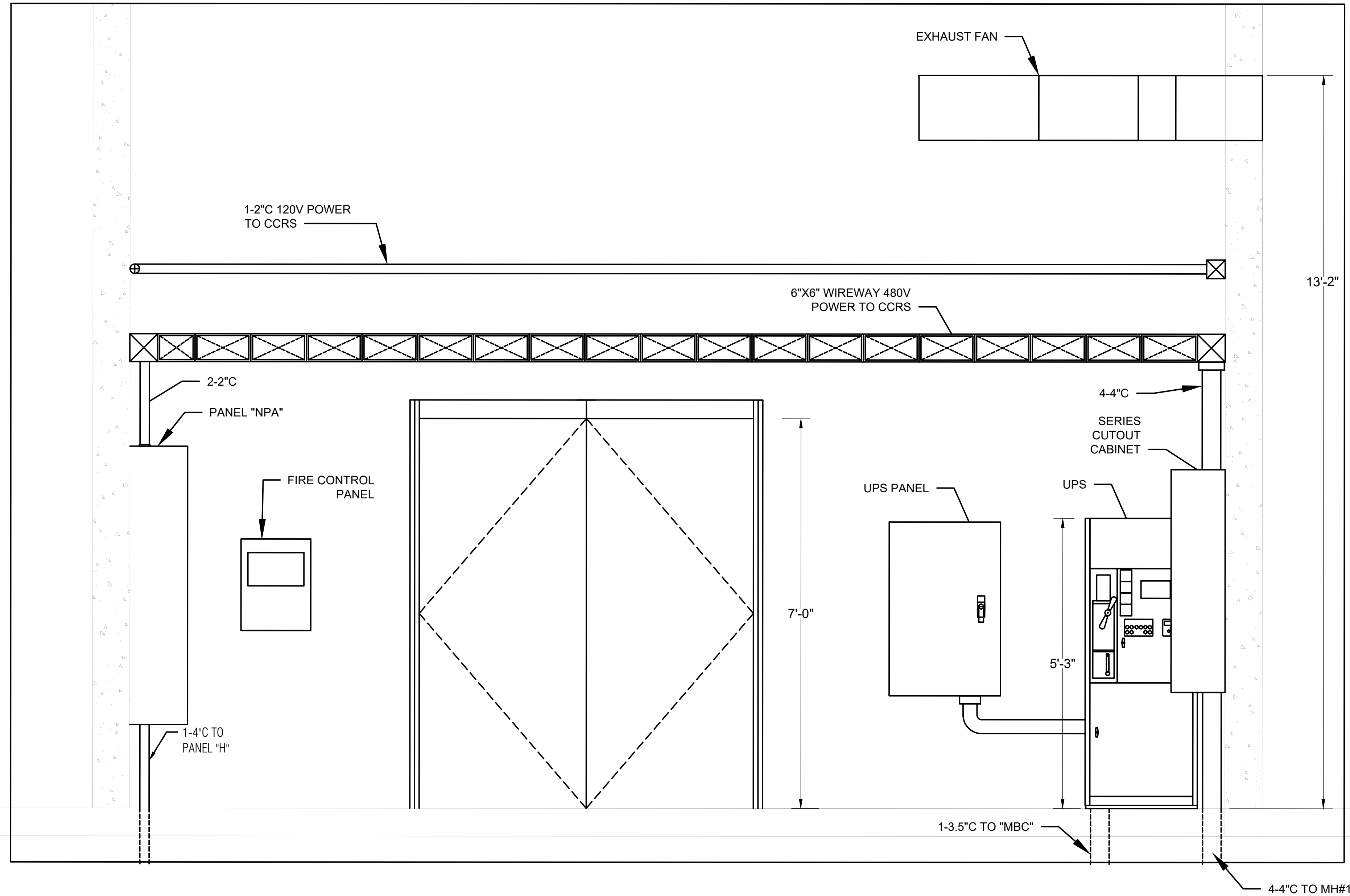
1 WEST WALL (PANELS AND TRANSFORMERS)
SCALE: NTS

No.	Revision	Date	By

ACI No. XXXXX
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**WEST WALL
ELEVATION**



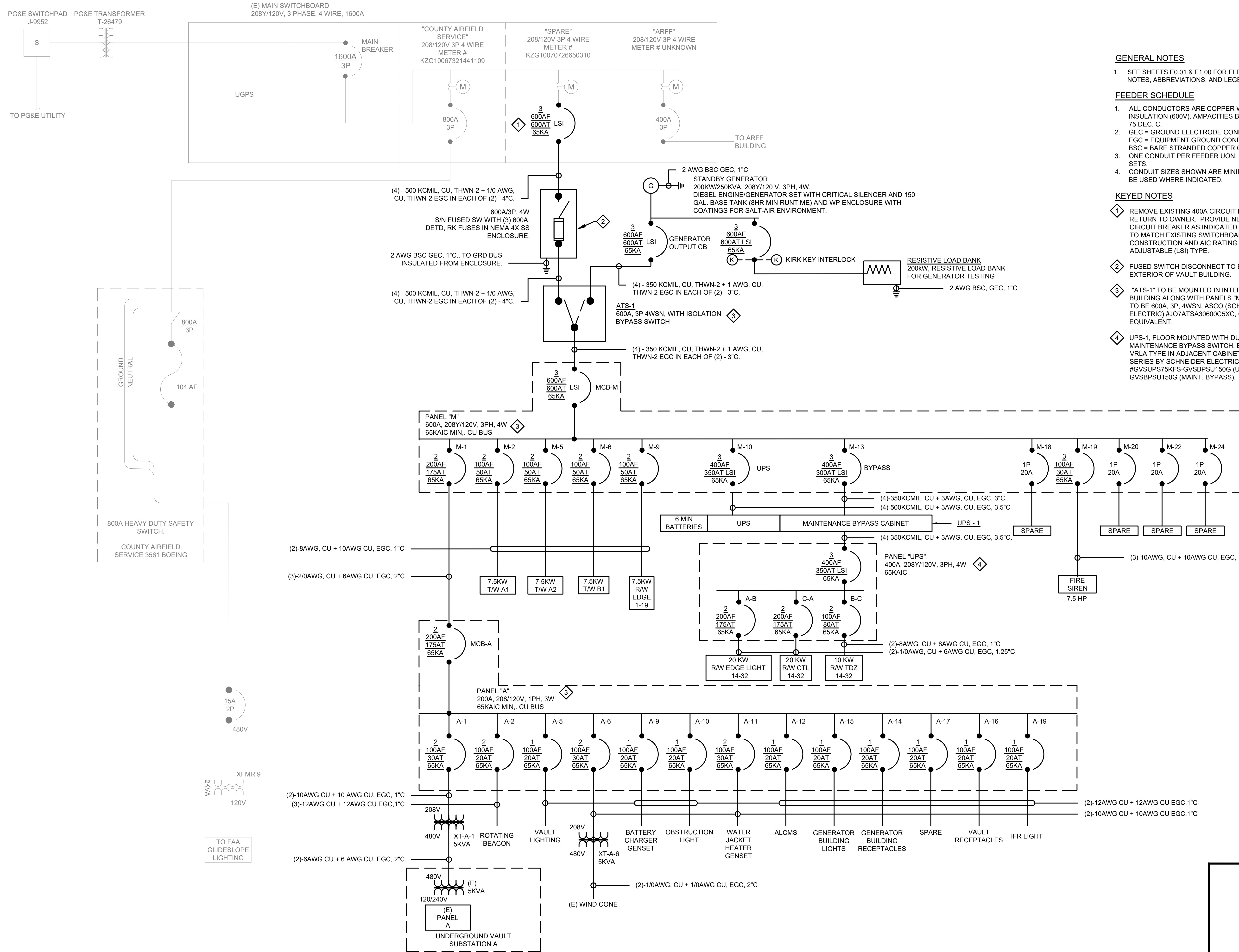
1 SOUTH WALL (DOOR AND UPS)
SCALE: NTS

No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
Approved: DL

**NORTH WALL
ELEVATION**



GENERAL NOTES

- SEE SHEETS E0.01 & E1.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

FEEDER SCHEDULE

- ALL CONDUCTORS ARE COPPER WITH THWN-2 INSULATION (600V). AMPACITIES BASED ON 75 DEC. C.
- GEC = GROUND ELECTRODE CONDUCTOR. EGC = EQUIPMENT GROUND CONDUCTOR. BSC = BARE STRANDED COPPER CONDUCTOR. ONE CONDUIT PER FEEDER UON, BU NUMBER OF SETS.
- CONDUIT SIZES SHOWN ARE MINIMUM LARGER MAY BE USED WHERE INDICATED.

KEYED NOTES

- REMOVE EXISTING 400A CIRCUIT BREAKER AND RETURN TO OWNER. PROVIDE NEW 600AF/600AT CIRCUIT BREAKER AS INDICATED. NEW BREAKER TO MATCH EXISTING SWITCHBOARD CONSTRUCTION AND AIC RATING AND BE FULLY ADJUSTABLE (LSI) TYPE.
- FUSED SWITCH DISCONNECT TO BE MOUNTED ON EXTERIOR OF VAULT BUILDING.
- "ATS-1" TO BE MOUNTED IN INTERIOR OF VAULT BUILDING ALONG WITH PANELS "M" AND "A". ATS-1 TO BE 600A, 3P, 4WSN, ASCO (SCHNEIDER ELECTRIC) #J07ATS30600CSXC, OR APPROVED EQUIVALENT.
- UPS-1, FLOOR MOUNTED WITH DUAL FEED AND MAINTENANCE BYPASS SWITCH. BATTERY TO BE VRLA TYPE IN ADJACENT CABINET. GALAXY VS SERIES BY SCHNEIDER ELECTRIC. #GVSUPS75KFS-GVSBPSU150G (UPS) AND GVSBPSU150G (MAINT. BYPASS).



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NEW VAULT SINGLE LINE

VOLTAGE DROP CALCULATION

PROJECT: CRC HUMBOLT COUNTY AIRPORT, MCKINLEYVILLE, CA													SYSTEM VOLTAGE: 208			1/2/2023		
NUMBER:													SYSTEM PHASE: 3					
VOLT DROP CALCULATION BASED ON CHAPTER 9 OF THE NATIONAL ELECTRICAL CODE																		
PREPARED BY: LEAN Engineering, Irvine, CA																		
METRIC (Y/N): N Date: 2/24/2023																		
LOAD DESCRIPTION	NOMINAL VOLTAGE	SYSTEM PHASE	STARTING VOLTAGE	POWER FACTOR	LENGTH OF CIRCUIT IN FEET	CURRENT IN AMPS	FINAL WIRE SIZE	REQ'D WIRE SIZE	LINE TO NEUTRAL Y/N	MAGNETIC CONDUIT Y/N	WIRE TYPE Copper Aluminum	VOLTS DROPPED	SINGLE RUN PERCENT	ADD % TO OTHER LOAD Y/N	ADD TO WHAT LOAD	ENDING VOLTAGE	TOTAL PERCENT DROPPED	
(E) MSB TO PNL M	208	3	208.0	100%	225.0	571.0	500	2	1/0	N	Y	C	3.2	1.55%	N		204.8	1.55%
PNL M TO PNL A	208	1	204.8	100%	25.0	80.0	1	1	8	N	Y	C	0.6	0.31%	Y	(E) MSB TO PNL M	204.1	1.86%
XT-A-1 TO SUB A	480	1	480.0	100%	650.0	10.4	6	1	6	N	Y	C	6.6	1.38%	N		473.4	1.38%
XT-A-6 TO WIND CONE	480	1	480.0	100%	3600.0	10.4	1/0	1	1/0	N	Y	C	9.0	1.87%	N		471.0	1.87%

1 VOLTAGE DROP CALCULATION
SCALE: NTS

PANEL: PANEL M		VOLTAGE: 208 /120V, 3-PH, 4W	BUS SIZE: 600A	MAIN: 600A/3P M.C.B.
LOCATION:ALV	MOUNTING: SURFACE	FED FROM: EXIST MSB	FEED: TOP X BOTTOM X	
CIRCUIT CODE: blank or N: NON-CONTINUOUS L: LONG-CONTINUOUS R: DEMANDABLE RECEP'S K: KITCHEN P: PANEL U: UNIT M: MOTOR				
ITEM	CODE	BKR	CKT	ITEM
SUBFEED TO PANEL A	P	175	1	7.5 KW CCR TIW A1
PART OF CIRCUIT ABOVE	P	/2	3	SAME AS CIRCUIT ABOVE
7.5 KW CCR TIW A2	L	70	5	7.5 KW CCR TIW B1
SAME AS CIRCUIT ABOVE	L	/2	7	SAME AS CIRCUIT ABOVE
7.5 KW CCR RW EDGE 1-19	L	70	9	75 KW UPS
SAME AS CIRCUIT ABOVE	L	/2	11	SAME AS CIRCUIT ABOVE
75 KW UPS MPD (MPD LOAD IS LESS THAN INPUT LOAD)	L	300	13	SAME AS CIRCUIT ABOVE
SAME AS CIRCUIT ABOVE	L	/	15	SAME AS CIRCUIT ABOVE
SAME AS CIRCUIT ABOVE	L	/3	17	SPARE
7.5 HP FIRE SIREN	M	30	19	SPARE
SAME AS CIRCUIT ABOVE	M	/	21	SPARE
SAME AS CIRCUIT ABOVE	M	/3	23	SPARE
SPARE			25	SPARE
SPARE			27	SPARE
SPARE			29	SPARE
SPARE			31	SPARE
SPARE			33	SPARE
SPARE			35	SPARE
BUSSED SPACE			37	BUSSED SPACE
BUSSED SPACE			39	BUSSED SPACE
BUSSED SPACE			41	BUSSED SPACE
BUSSED SPACE			42	BUSSED SPACE
CONNECTED VA PER PHASE: 59,695 53,196 46,456				DEMAND KVA: 168
TOTAL CONNECTED VA: 159,347				DEMAND AMPS: 467
CONN. VA (CODE N): 0 CONN. VA (CODE R): 0 CONN. VA (CODE M): 8,840				CONNECTED AMPS: 443
CONN. VA (CODE L): 126,952 CONN. VA (CODE K): 0				HIGH PH AMPS/LCL: 499

PANEL NOTES:

2 PANEL 'M' SCHEDULE
SCALE: NTS

PANEL: UPS		VOLTAGE: 208 /120V, 3-PH, 4W	BUS SIZE: 400A	MAIN: 350A/3P M.C.B.
LOCATION:ALV	MOUNTING: SURFACE	FED FROM: UPS-1	FEED: TOP X BOTTOM X	
CIRCUIT CODE: blank or N: NON-CONTINUOUS L: LONG-CONTINUOUS R: DEMANDABLE RECEP'S K: KITCHEN P: PANEL U: UNIT M: MOTOR				
ITEM	CODE	BKR	CKT	ITEM
20 KW CCR RW EDGE LIGHT 14-32	L	175	1	SPARE
SAME AS CIRCUIT ABOVE	L	/2	3	SPARE
20 KW CCR RW CTL 14-32	L	175	5	SPARE
SAME AS CIRCUIT ABOVE	L	/2	7	SPARE
10 KW CCR RW TDZ 14-32	L	80	9	SPARE
SAME AS CIRCUIT ABOVE	L	/2	11	SPARE
SPARE			13	SPARE
SPARE			15	SPARE
SPARE			17	SPARE
SPARE			19	SPARE
SPARE			21	SPARE
SPARE			23	SPARE
SPARE			25	SPARE
SPARE			27	SPARE
SPARE			29	SPARE
CONNECTED VA PER PHASE: 27,884 26,860 20,820				DEMAND KVA: 87
TOTAL CONNECTED VA: 69,364				DEMAND AMPS: 241
CONN. VA (CODE N): 0 CONN. VA (CODE R): 0 CONN. VA (CODE M): 0				CONNECTED AMPS: 193
CONN. VA (CODE L): 69,364 CONN. VA (CODE K): 0				HIGH PH AMPS/LCL: 288
PHASE BAL. A-B 24.9% PHASE BAL. B-C 0.1% PHASE BAL. C-A 25%				

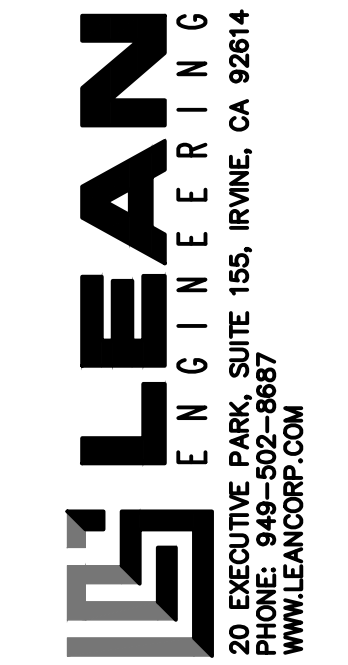
PANEL NOTES:

3 PANEL 'UPS' SCHEDULE
SCALE: NTS

PANEL: PANEL A		VOLTAGE: 208 /120V, 1-PH, 3W	BUS SIZE: 200A	MAIN: 175A/2P M.C.B.
LOCATION:ALV	MOUNTING: SURFACE	FED FROM: FEED	FEED: TOP X BOTTOM X	
CIRCUIT CODE: blank or N: NON-CONTINUOUS L: LONG-CONTINUOUS R: DEMANDABLE RECEP'S K: KITCHEN P: PANEL U: UNIT M: MOTOR				
ITEM	CODE	BKR	CKT	ITEM
SUBFEED TO XT-A (5 KVA)	L	30	1	ROTATING BEACON
SAME AS CIRCUIT ABOVE	L	/2	3	SPARE
VAULT LIGHTING	L	20	5	L SUBFEED TO XT-A-6
SPARE			7	SAME AS CIRCUIT ABOVE
GENERATOR BATTERY CHARGER	N	20	9	OBSTRUCTION LIGHT
GENERATOR WATER JACKET HEATER	N	30	11	ALCMS
SAME AS CIRCUIT ABOVE	N	/2	13	(E) GENERATOR BLDG RECEP
(E) GENERATOR BUILDING LIGHTS	L	20	15	VAULT RECEPTACLES
SPARE			17	SPARE
FR LIGHT	L	20	19	SPARE
SPARE			21	SPARE
SPARE			23	SPARE
SPARE			25	SPARE
SPARE			27	SPARE
SPARE			29	SPARE
SPARE			31	SPARE
BUSSED SPACE			33	BUSSED SPACE
BUSSED SPACE			35	BUSSED SPACE
BUSSED SPACE			37	BUSSED SPACE
BUSSED SPACE			39	BUSSED SPACE
BUSSED SPACE			41	BUSSED SPACE
CONNECTED VA PER PHASE: 11,815 11,940				DEMAND KVA: 27.3
TOTAL CONNECTED VA: 23,755				DEMAND AMPS: 131.1
CONN. VA (CODE N): 7,500 CONN. VA (CODE R): 14,088 CONN. VA (CODE M): 0				CONNECTED AMPS: 114.2
CONN. VA (CODE L): 14,088 CONN. VA (CODE K): 0				HIGH PH AMPS/LCL: 115.1

PANEL NOTES:

4 PANEL 'A' SCHEDULE
SCALE: NTS



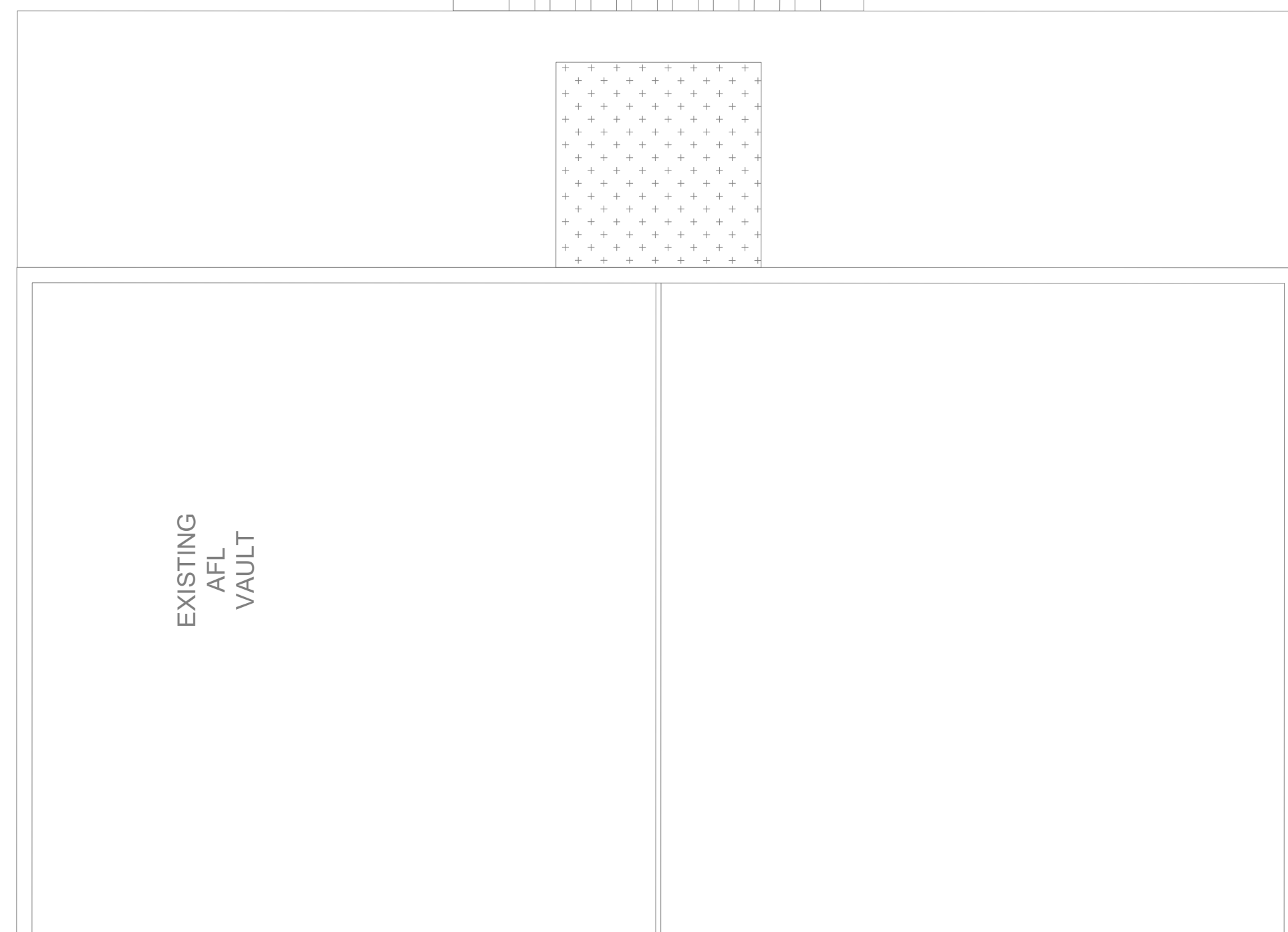
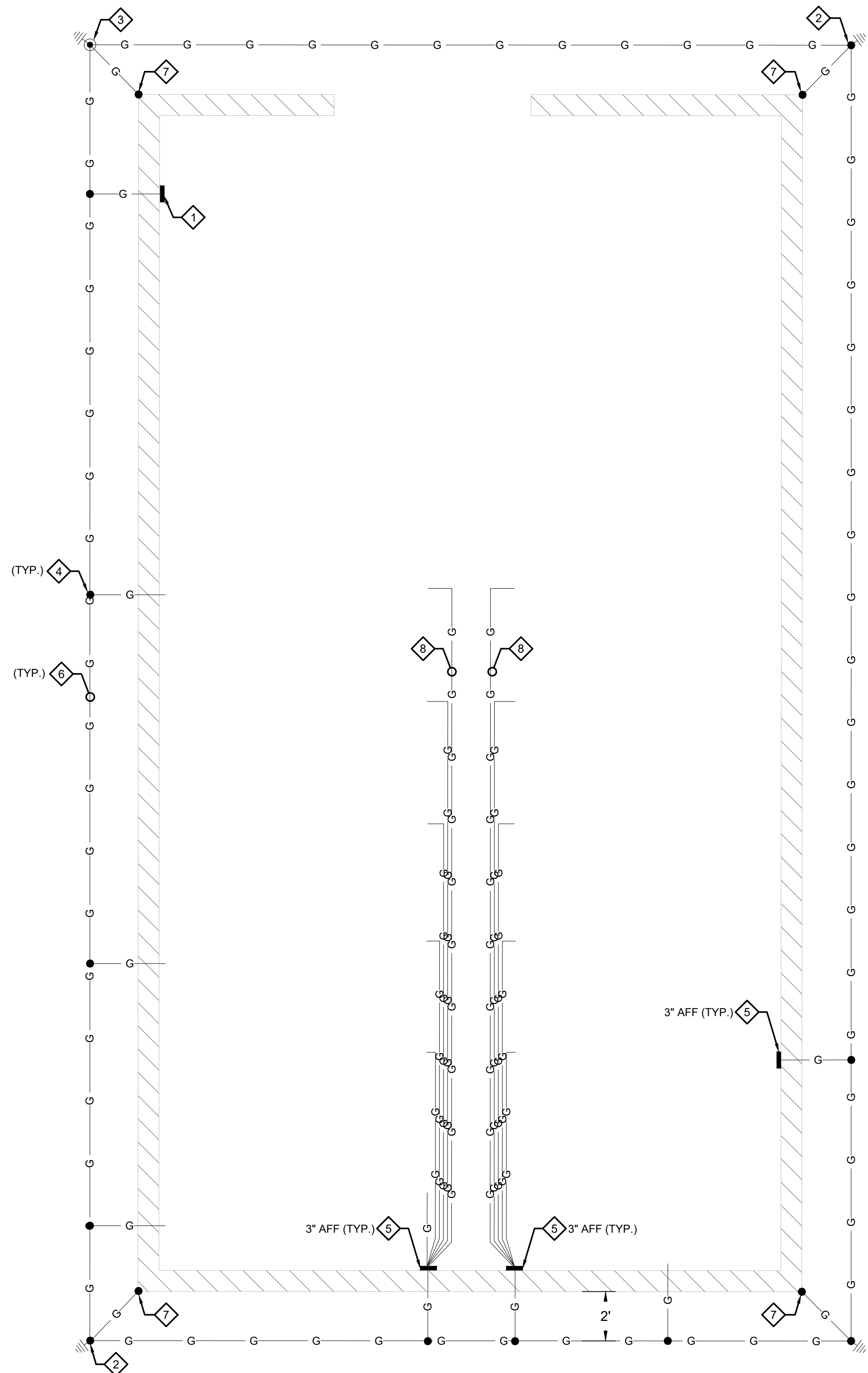
CALIFORNIA REDWOOD COAST
HUMBOLDT COUNTY AIRPORT
MCKINLEYVILLE, CA
TWY A LIGHTING AND VAULT REHAB
AIP No. 3-06-0010-053-2022

No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
Approved: DL

VOLTAGE DROP CALCULATION AND PANEL M SCHEDULE

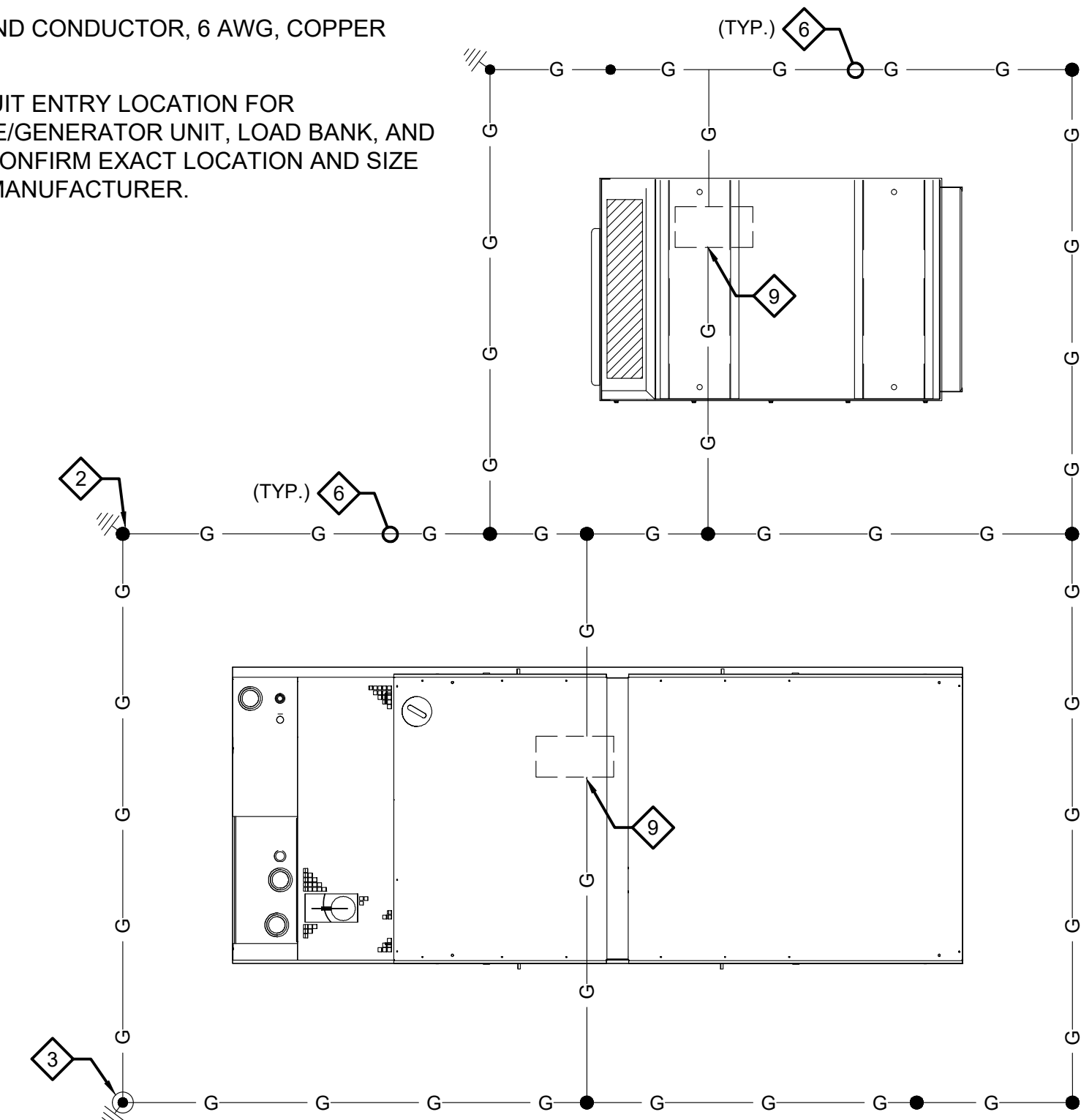


SHEET NOTES:

- 1 MAIN GROUND BUS (MGB).
- 2 DRIVEN GROUND ROD 3/4"X10', TYPICAL UON.
- 3 DRIVEN GROUND ROD 3/4"X10' IN TEST WELL WITH ACCESSIBLE COVER.
- 4 EXOTHERMIC WELDED CONNECTION.
- 5 INTERMEDIATE GROUND BUS (IGB). PROVIDE 5KV INSULATORS IN CCR ROOM.
- 6 GROUND CONDUCTOR, 4/0 AWG, COPPER, TYPICAL, UON.
- 7 DOWNLEAD FOR LIGHTNING PROTECTION SYSTEM.
- 8 GROUND CONDUCTOR, 6 AWG, COPPER
- 9 CONDUIT ENTRY LOCATION FOR ENGINE/GENERATOR UNIT, LOAD BANK, AND AHU. CONFIRM EXACT LOCATION AND SIZE WITH MANUFACTURER.

SHEET LEGEND:

G NEW GROUNDING RING.

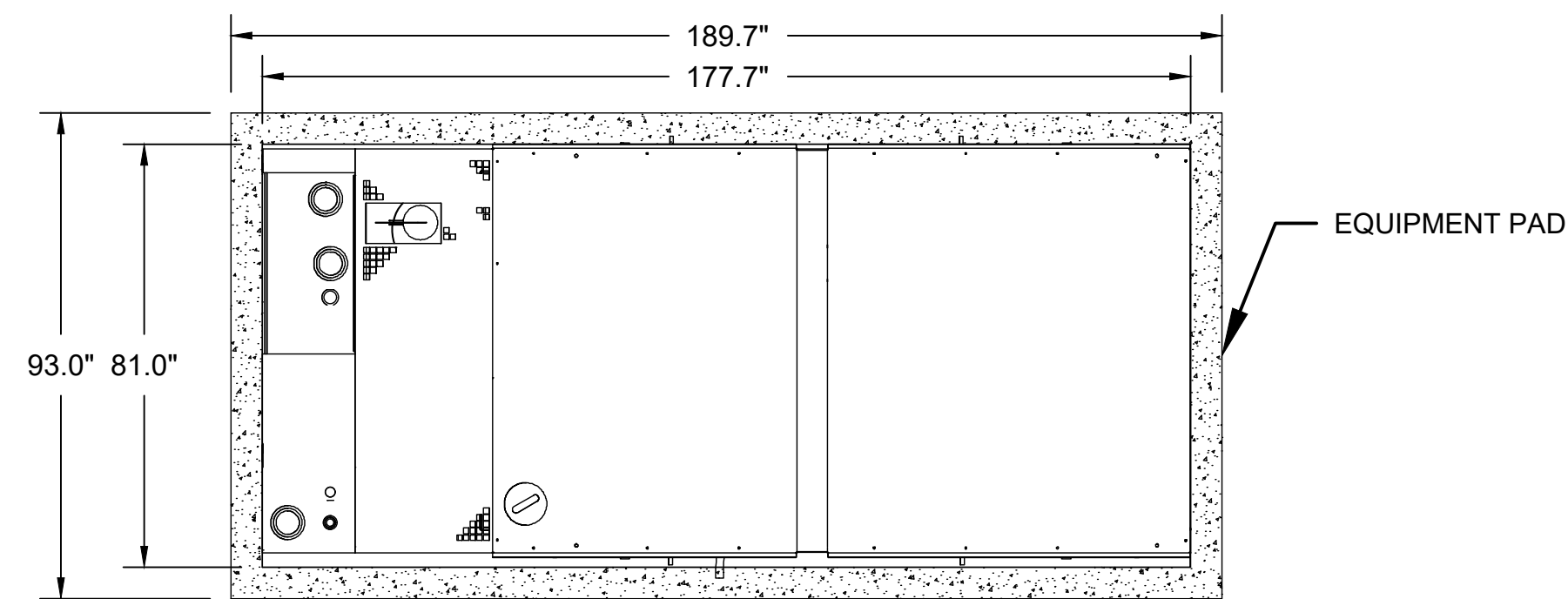


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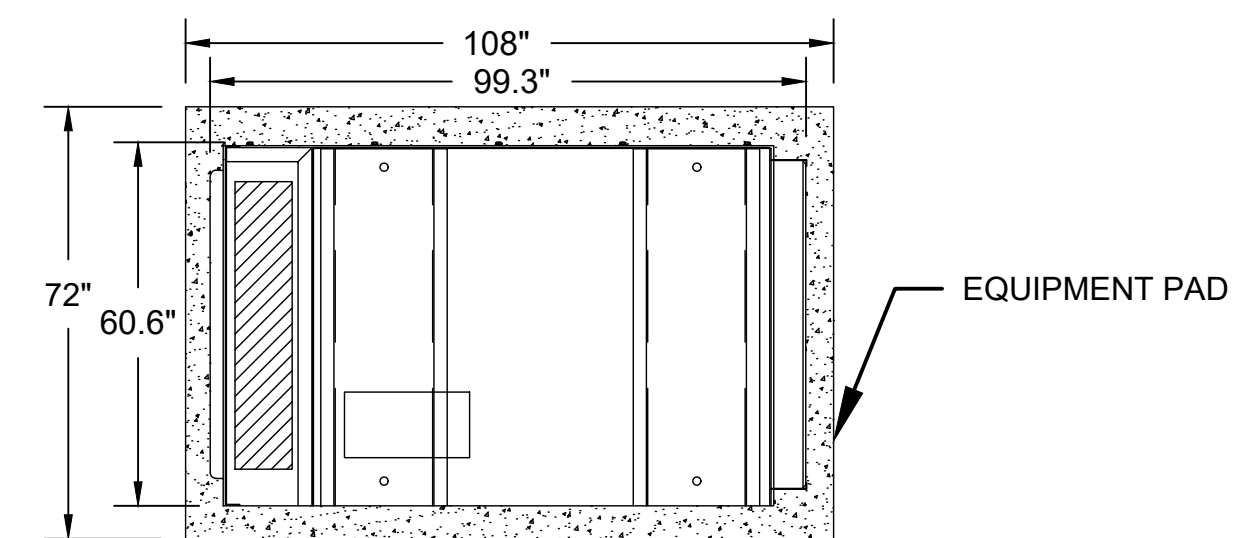
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Date: 12/2022
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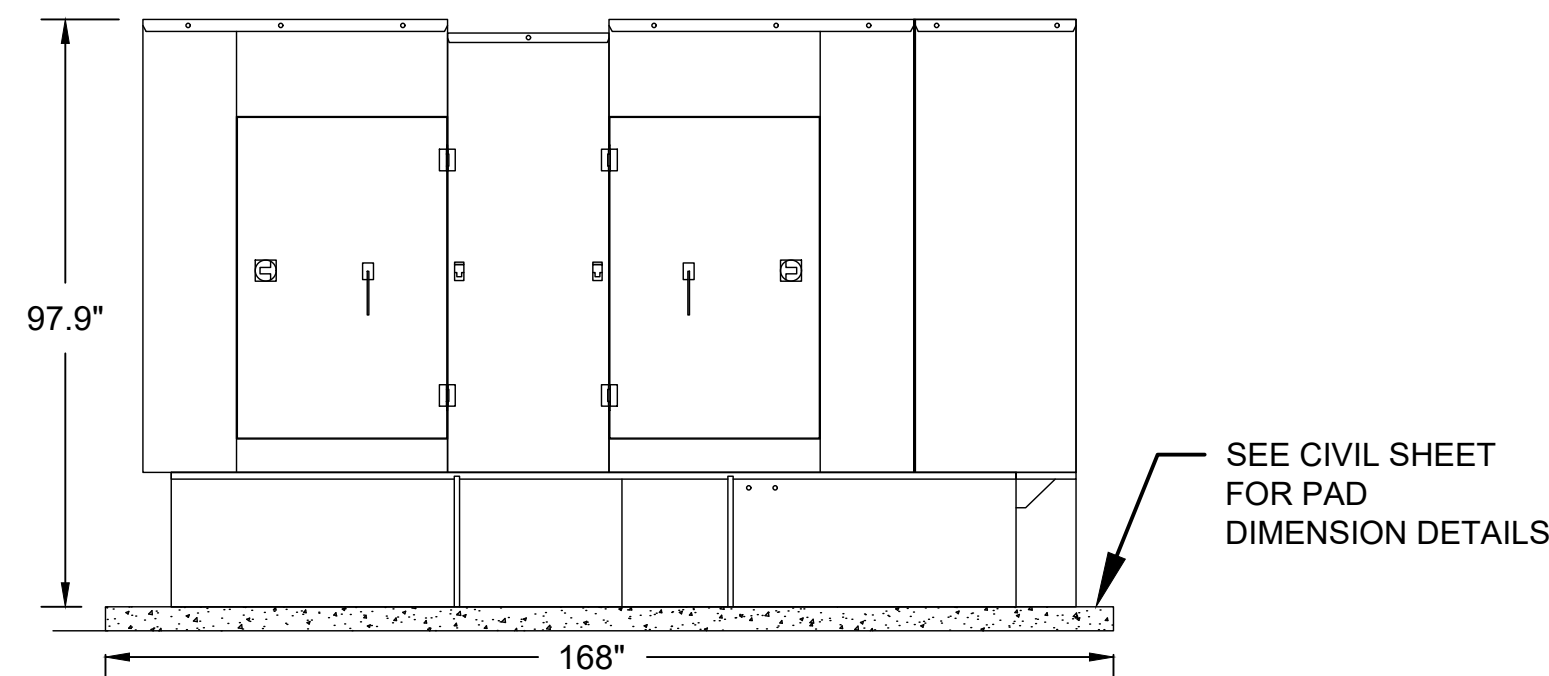
**NEW VAULT
GROUNDING
LAYOUT PLAN**



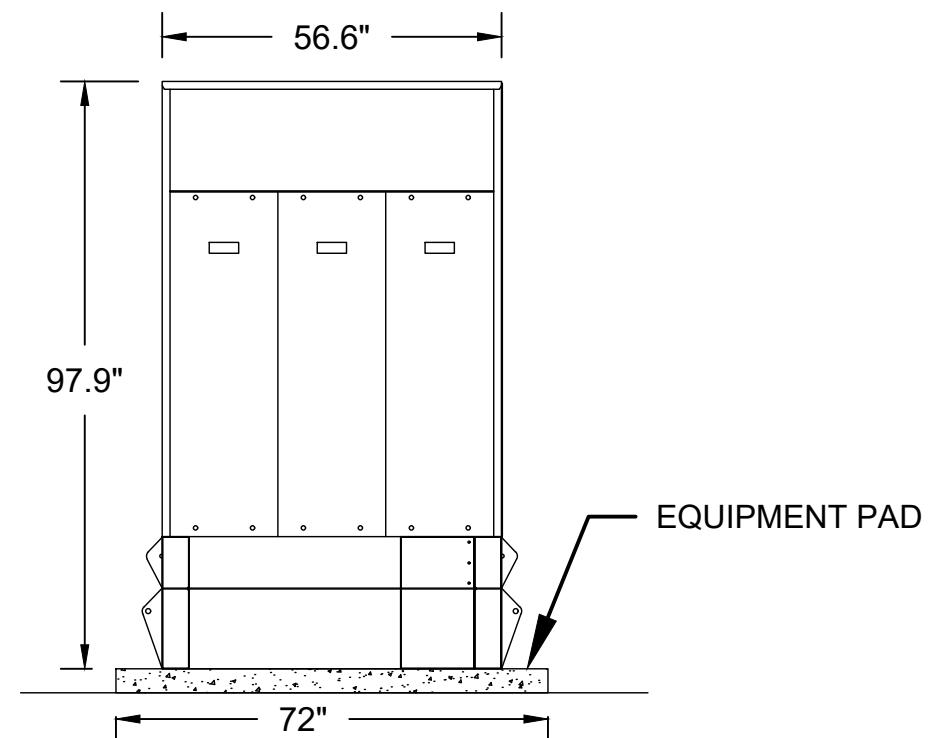
A GENERATOR PLAN VIEW
SCALE: NTS



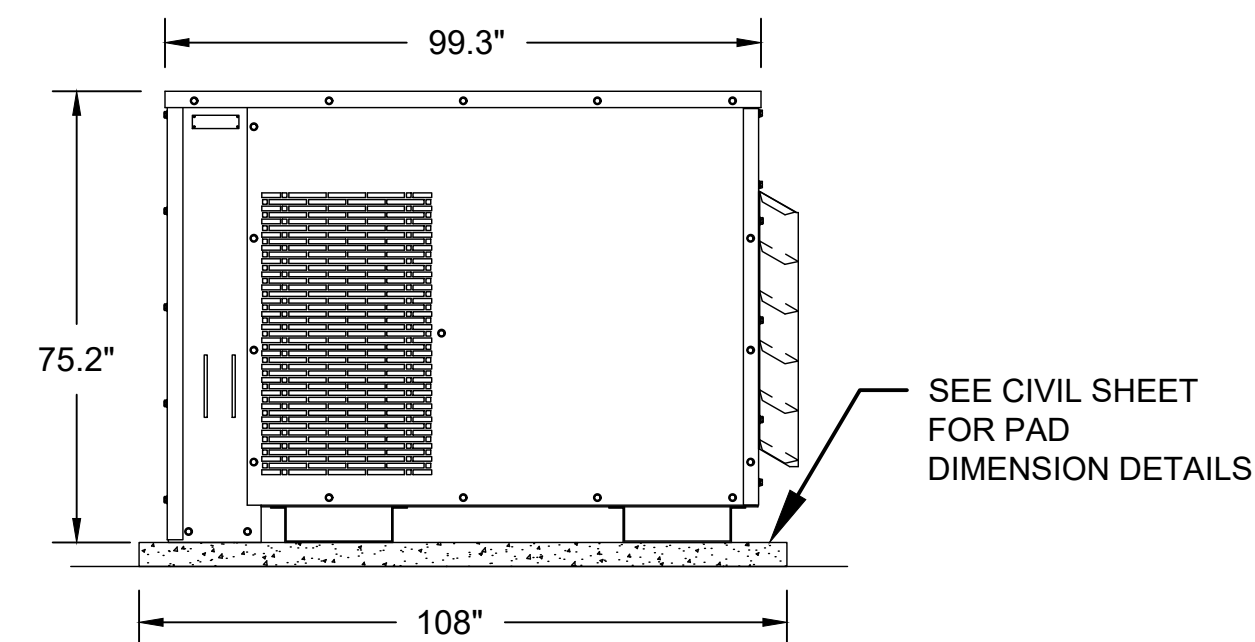
A LOAD BANK PLAN VIEW
SCALE: NTS



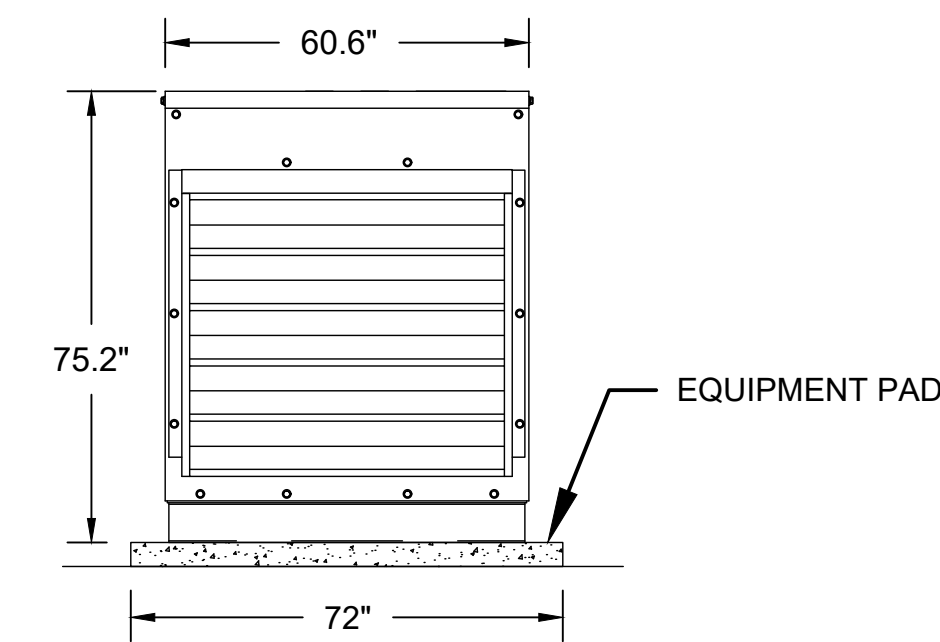
B GENERATOR SIDE VIEW 1
SCALE: NTS



C GENERATOR SIDE VIEW 2
SCALE: NTS



B LOAD BANK SIDE VIEW 1
SCALE: NTS



C LOAD BANK SIDE VIEW 2
SCALE: NTS

1 GENERATOR ELEVATION
SCALE: NTS

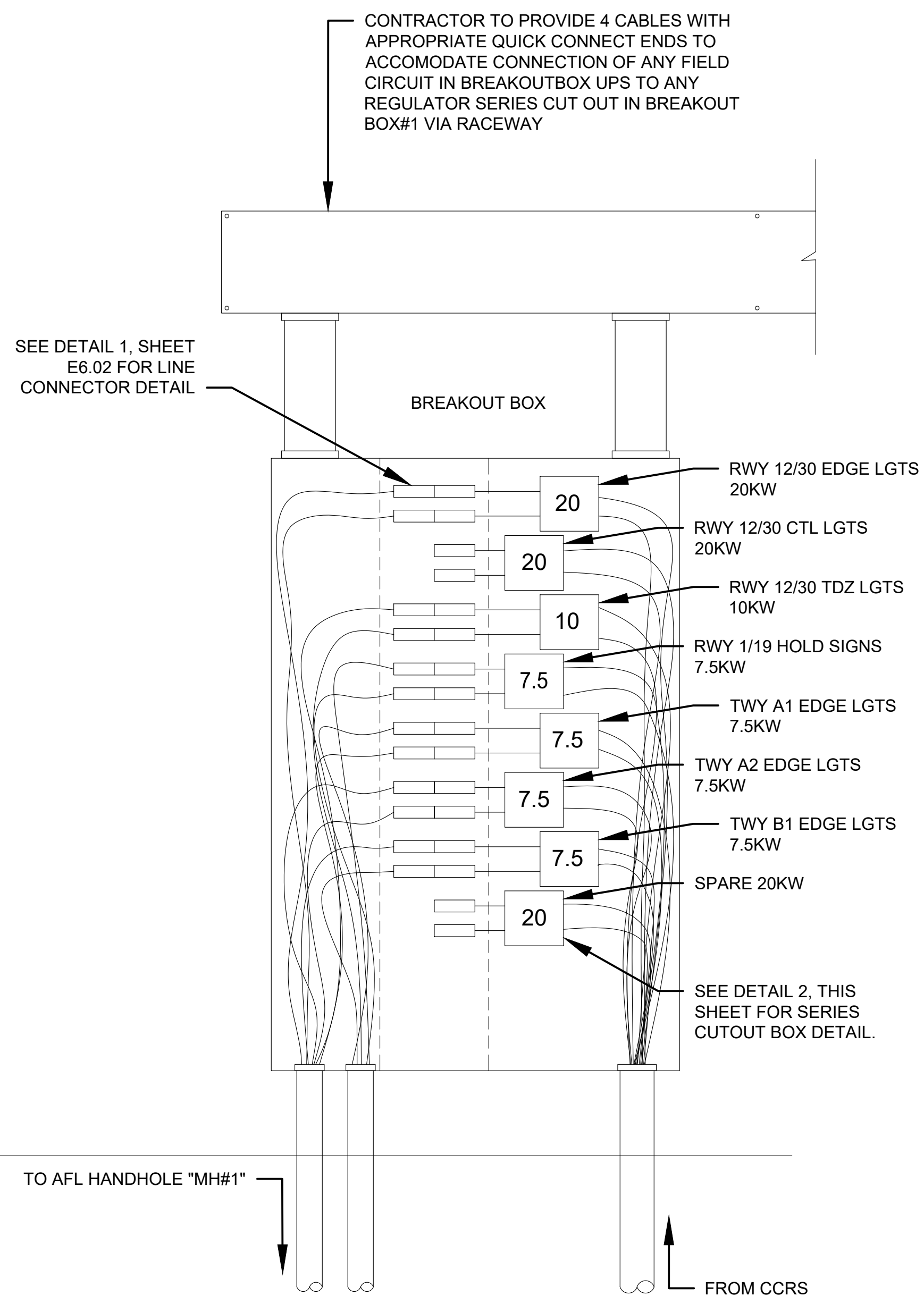
2 LOAD BANK ELEVATION
SCALE: NTS

No.	Revision	Date	By

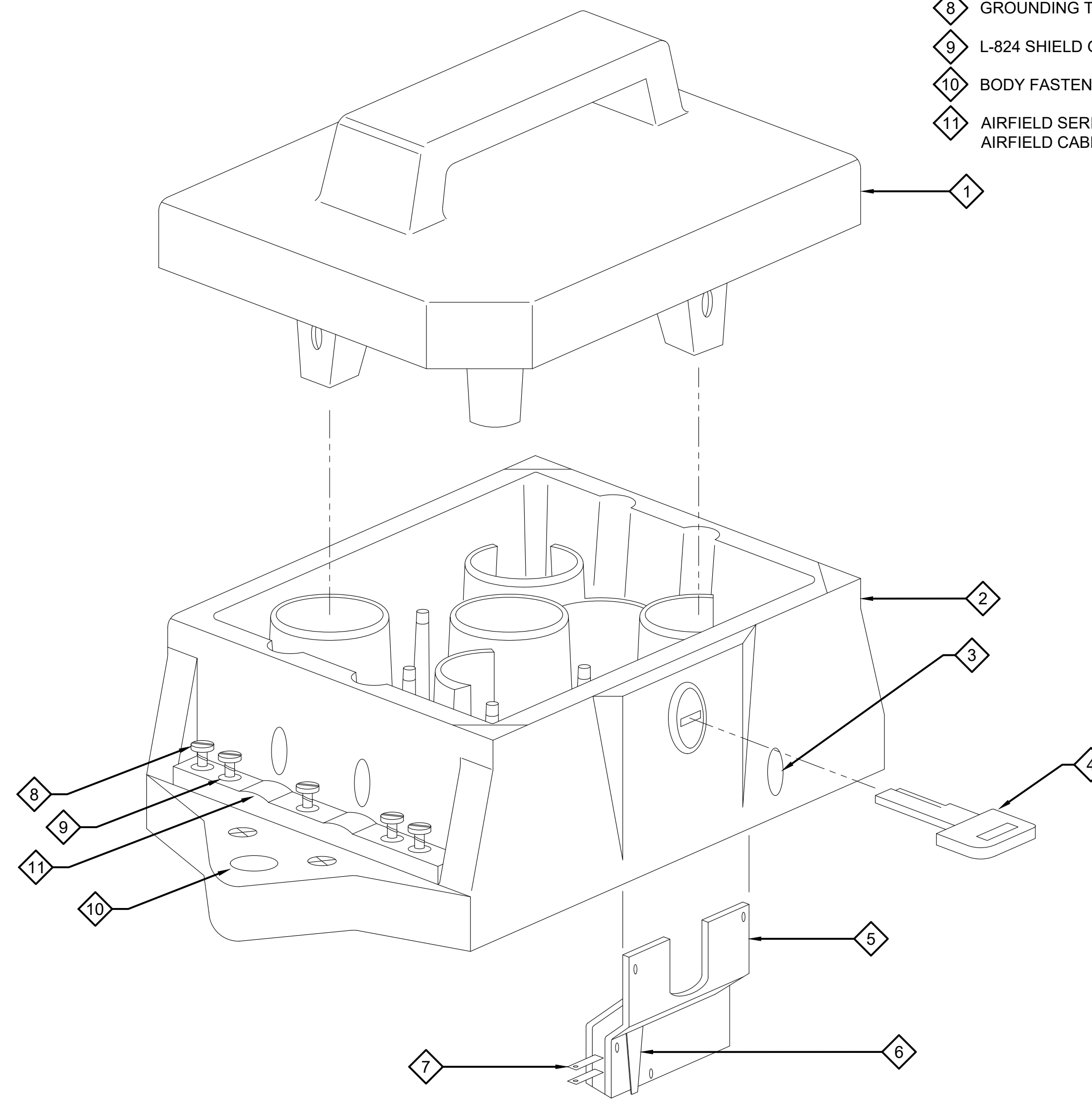
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Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
Approved: DL

**POWER
EQUIPMENT
ELEVATION
DETAILS**



1 BREAKOUT BOX DETAIL
SCALE: NTS



2 SERIES CIRCUIT CUTOUT DETAIL
SCALE: NTS

SERIES CUTOUT NOTES:

- 1 COVER
- 2 BODY
- 3 INSULATION MEASUREMENT SOCKET
- 4 LOCK AND KEY
- 5 INTERLOCK SWITCH (LOCATED INSIDE CUTOUT)
- 6 INTERLOCK SWITCH WIRING SHIELD CONNECTION (IF USED)
- 7 INTERLOCK SWITCH TERMINALS (IF USED)
- 8 GROUNDING TERMINALS (2)
- 9 L-824 SHIELD GROUNDING CLAMP SCREWS (3)
- 10 BODY FASTENING HOLE
- 11 AIRFIELD SERIES CABLE STRESS RELIEF AND AIRFIELD CABLE SHIELD GROUNDING CLAMP

No.	Revision	Date	By

ACI No. XXXXX
Date: 12/2022
File Name: FILE NAME

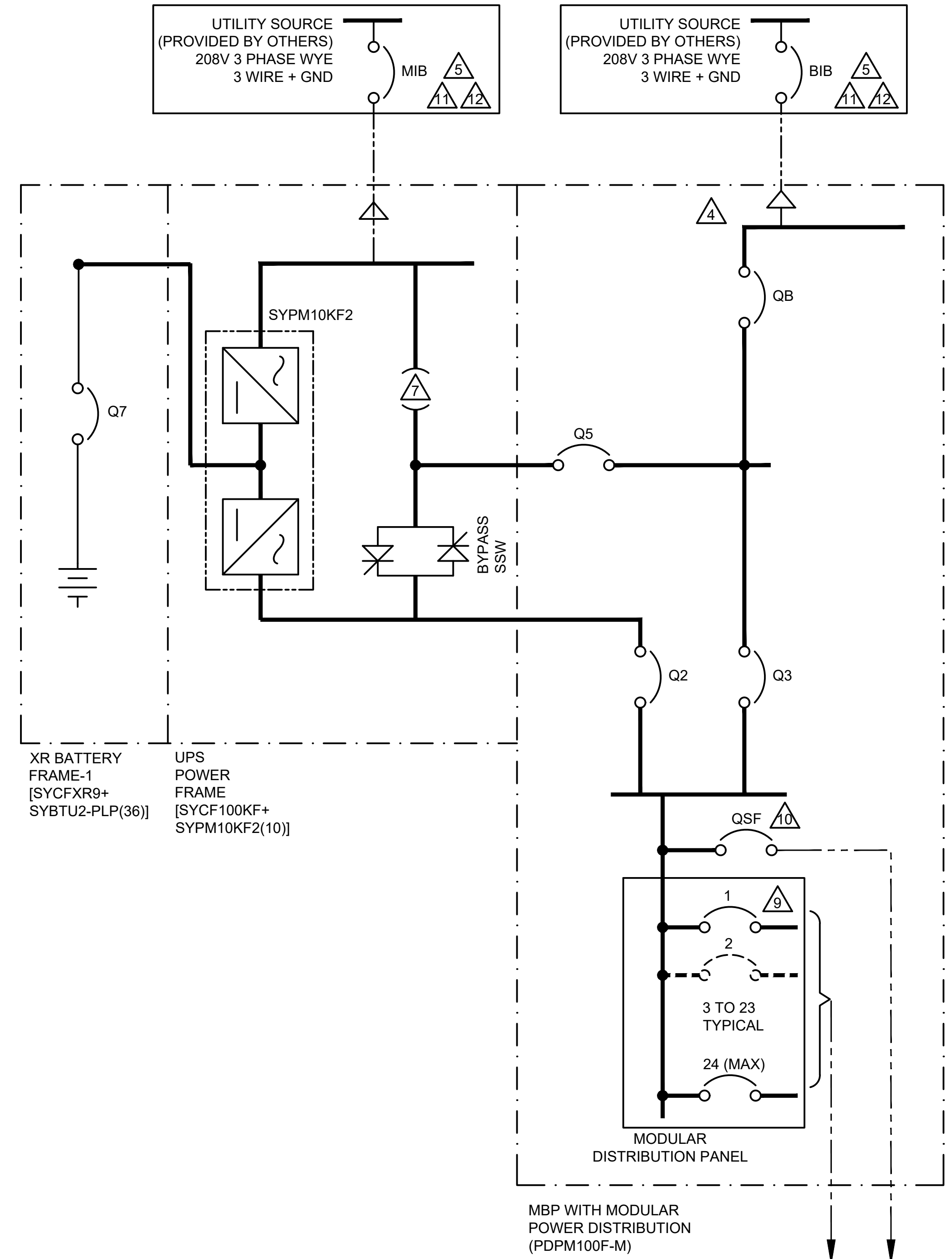
Drawn: KV
Checked: JA
Approved: DL

VAULT
DETAILS

LEGEND:
----- AC CABLE - PROVIDED BY OTHERS

DEVICE RATING			
DEVICE	RATING	TYPE	ACCESSORIES
QB	600AF, 480/277 VAC	3P MCCB	-
Q5	600AF, 480/277 VAC	3P MCCB	1 AUX SWITCH (SPDT TYPE)
Q2	600AF, 480/277 VAC	4P MCCB	1 AUX SWITCH (SPDT TYPE)
Q3	600AF, 480/277 VAC	4P MCCB	1 AUX SWITCH (SPDT TYPE)
QSF	400AF, 600V	3P MCCB	1 AUX SWITCH (SPDT TYPE)
Q7	32A, 500VDC	3P DC BREAKER	1 SHUNT TRIP (110-125VAC/DC) 1 AUX CONTACT (1 FORM C + 1 BA)

- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 - MAXIMUM AVAILABLE FAULT CURRENT IS 30KAIC.
 - AC SOURCE TO BE 208VAC 3PH WYE FOR 3 WIRE SYSTEM: 3 WIRE+GROUND. FOR 4 WIRE SYSTEM: 4 WIRE+GROUND.
 - AC CABLING SHALL BE 600V RATED, 3 WIRE+GROUND. FOR 4 WIRE SYSTEM : AC CABLING SHALL BE 600V RATED, 4 WIRE+GROUND.
 - SINGLE MAINS CONFIGURATION IS A DEFAULT. FOR DUAL MAINS CONFIGURATION REMOVE THE 3 SHORTING STRAPS/WIRES.
 - THIS DRAWING SHOWS MINIMUM NUMBER OF XR BATTERY FRAMES. MAXIMUM (4) XR BATTERY FRAMES CAN BE BAYED TO UPS.
 - DISTRIBUTION MODULES ARE NOT PART OF PDPM100F-M.
 - SEE INSTALLATION MANUAL FOR RECOMMENDED SETTINGS.
 - SEE TABLE BELOW FOR RECOMMENDED SETTING.
 - FOR PROPER INSTALLATION OF EPO, MIB BREAKER MUST BE INTERRUPTED UPON OF THE EPO BUTTON. A SHUNT TRIP COIL MAY THEREFORE BE NECESSARY FOR THIS PURPOSE. FOR MORE DETAILS, SEE EPO SECTION IN THE INSTALLATION MANUAL.



MODULAR OUTPUT 2 WIRE - GROUND OR 3 WIRE + GROUND OR 4 WIRE + GROUND
SUBFEED OUTPUT (4 WIRE + GROUND)
UPS SYSTEM OUTPUT 100kVA 208V 3PH

100K UPS FRAME SUBMITTAL DATA - W/ MODULAR PDU - W/O TRANSFORMER																			
UPS RATING				VOLTAGE CURRENT		RECTIFIER AC INPUT MIB DUAL OR SINGLE FEED 4						BYPASS AC INPUT BIB DUAL FEED 4						AC OUTPUT	
						CURRENT		RECOMMENDATIONS				CURRENT		RECOMMENDATIONS				CURRENT	
UPS FRAME RATING	QTY OF 10KW POWER MODULES	KVA	KW	INPUT	OUTPUT	FULL LOAD	MAX	100% OCPD	100% CABLE	80% OCPD	80% CABLE	FULL LOAD	MAX	100% OCPD	100% CABLE	80% OCPD	80% CABLE	NOM	MAX
100kV/ 100kW 100K FRAME	7	70	70	208	208	-	-	-	-	300A	1x35	195	243	-	-	250A	1x250	196	245

No.	Revision	Date	By

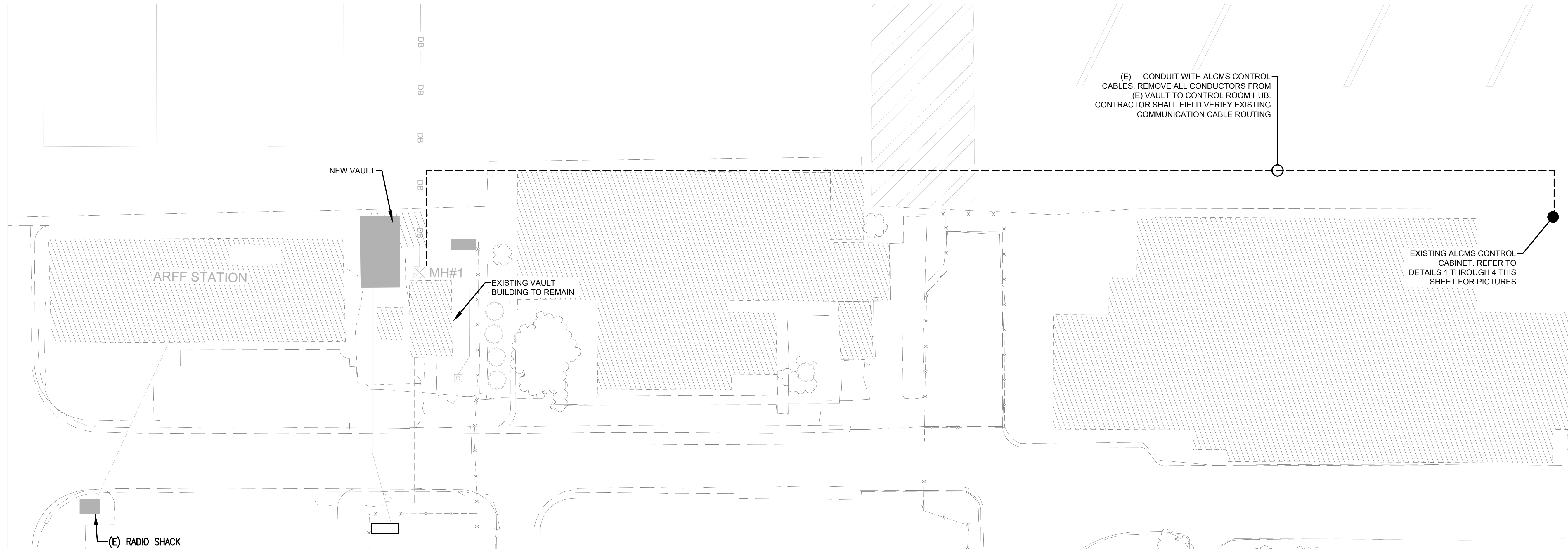
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Approved: DL

UPS DETAIL

GENERAL NOTES

- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



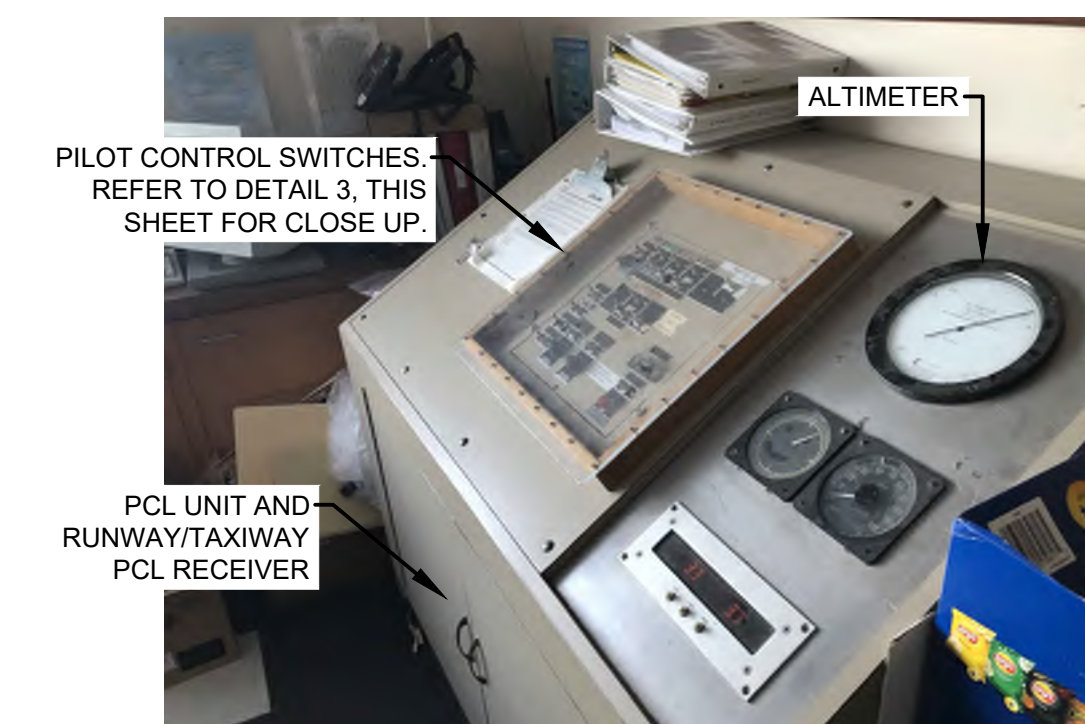
1 PCL UNIT AND RUNWAY/TAXIWAY PCL RECEIVER IN CONTROL CABINET
SCALE: NTS



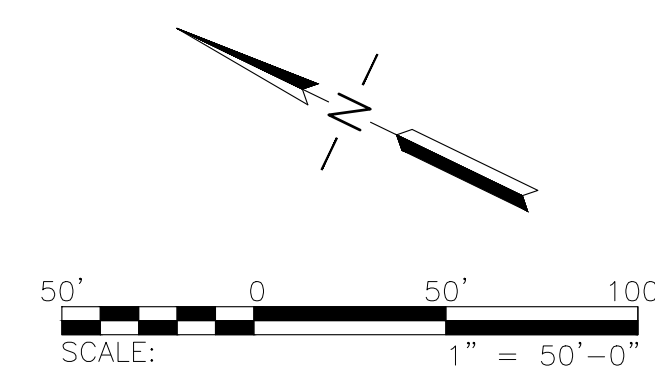
2 PCL UNIT ENCLOSURE
SCALE: NTS



3 PILOT CONTROL SWITCHES
SCALE: NTS



4 PILOT CONTROL CABINET
SCALE: NTS



No.	Revision	Date	By

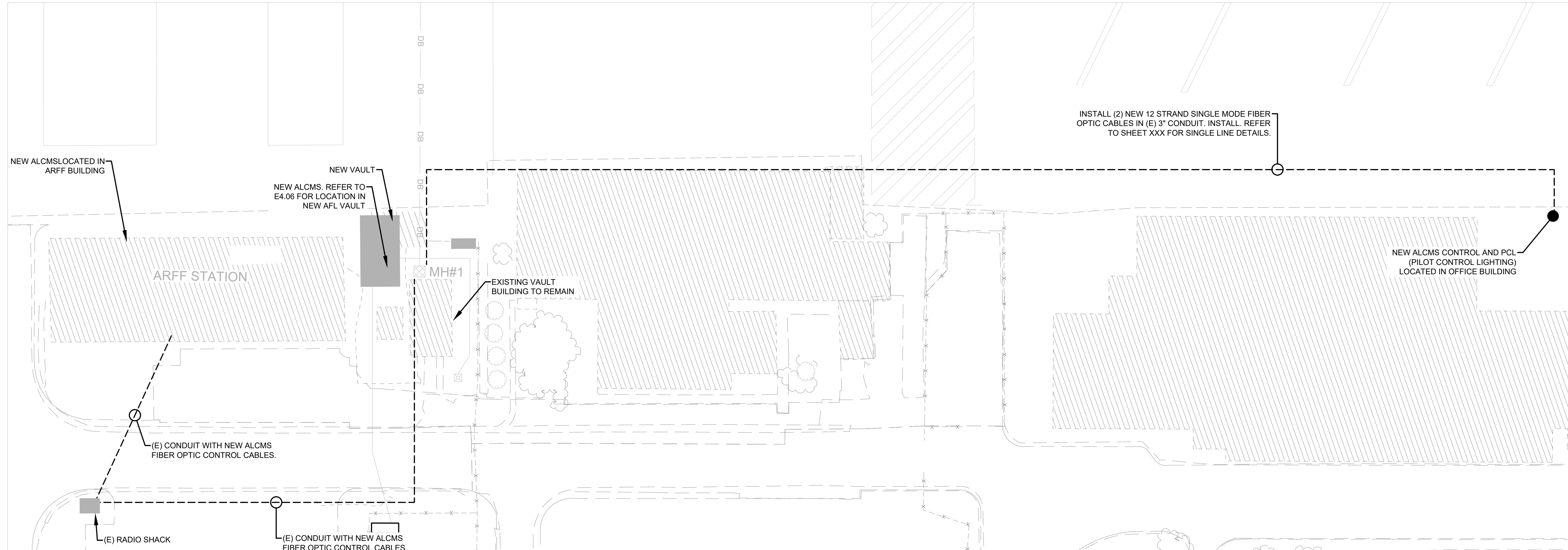
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Date: 12/2022
File Name: FILE NAME

Drawn: KV
Checked: JA
Approved: DL

CONTROL CABLE - DEMO

GENERAL NOTES

- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



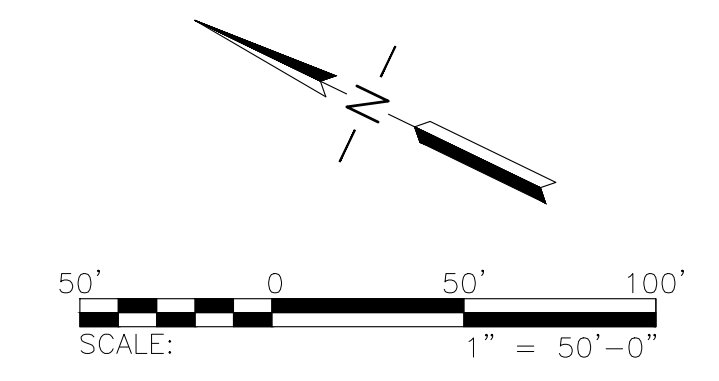
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ACI No. XXXXX
Date: 12/2022
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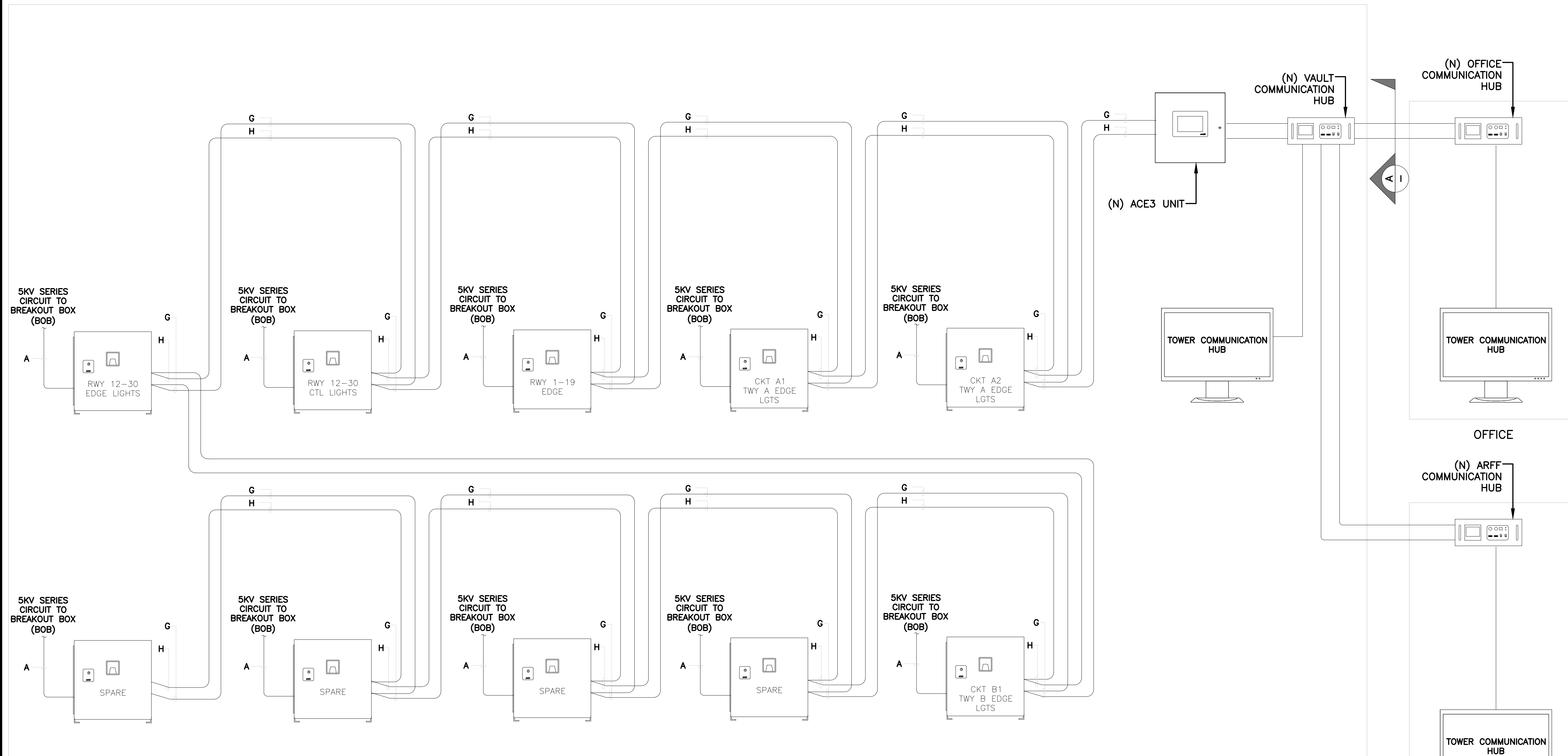
**CONTROL
CABLE - NEW**

Sheet: **E5.02**

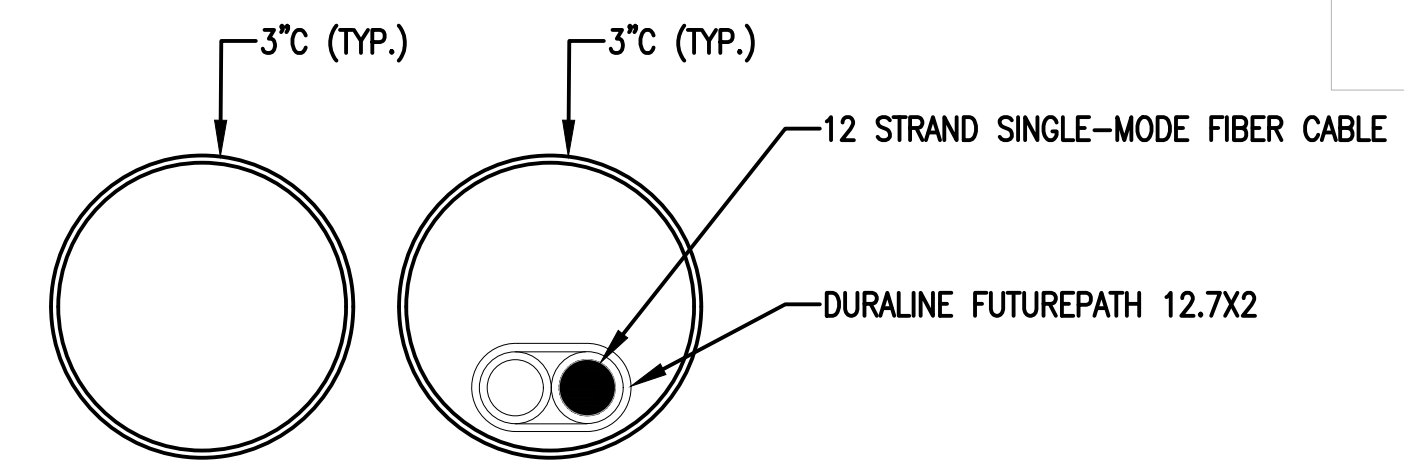


GENERAL NOTES

- SEE SHEETS E0.01 & E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



AIRFIELD LIGHTING VAULT



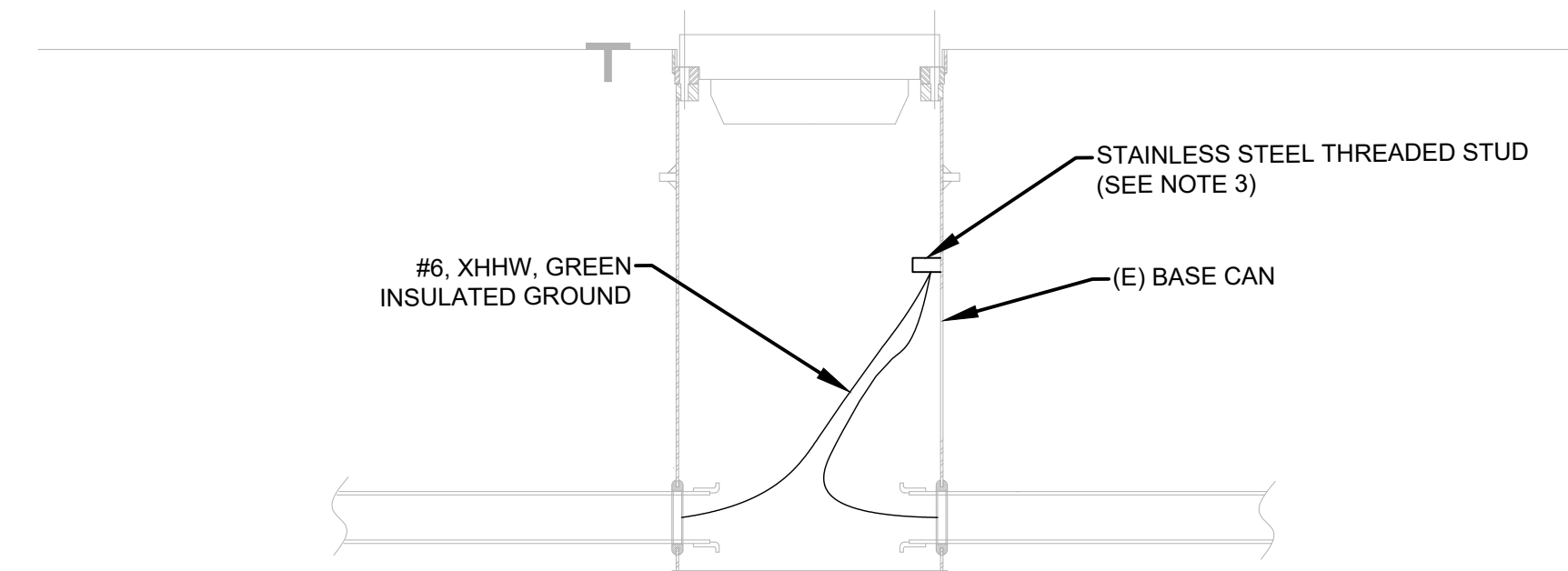
1 DUCTBANK SECTION - A
SCALE: NTS

No.	Revision	Date	By

ACI No. XXXXX
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Drawn: KV
Checked: JA
Approved: DL

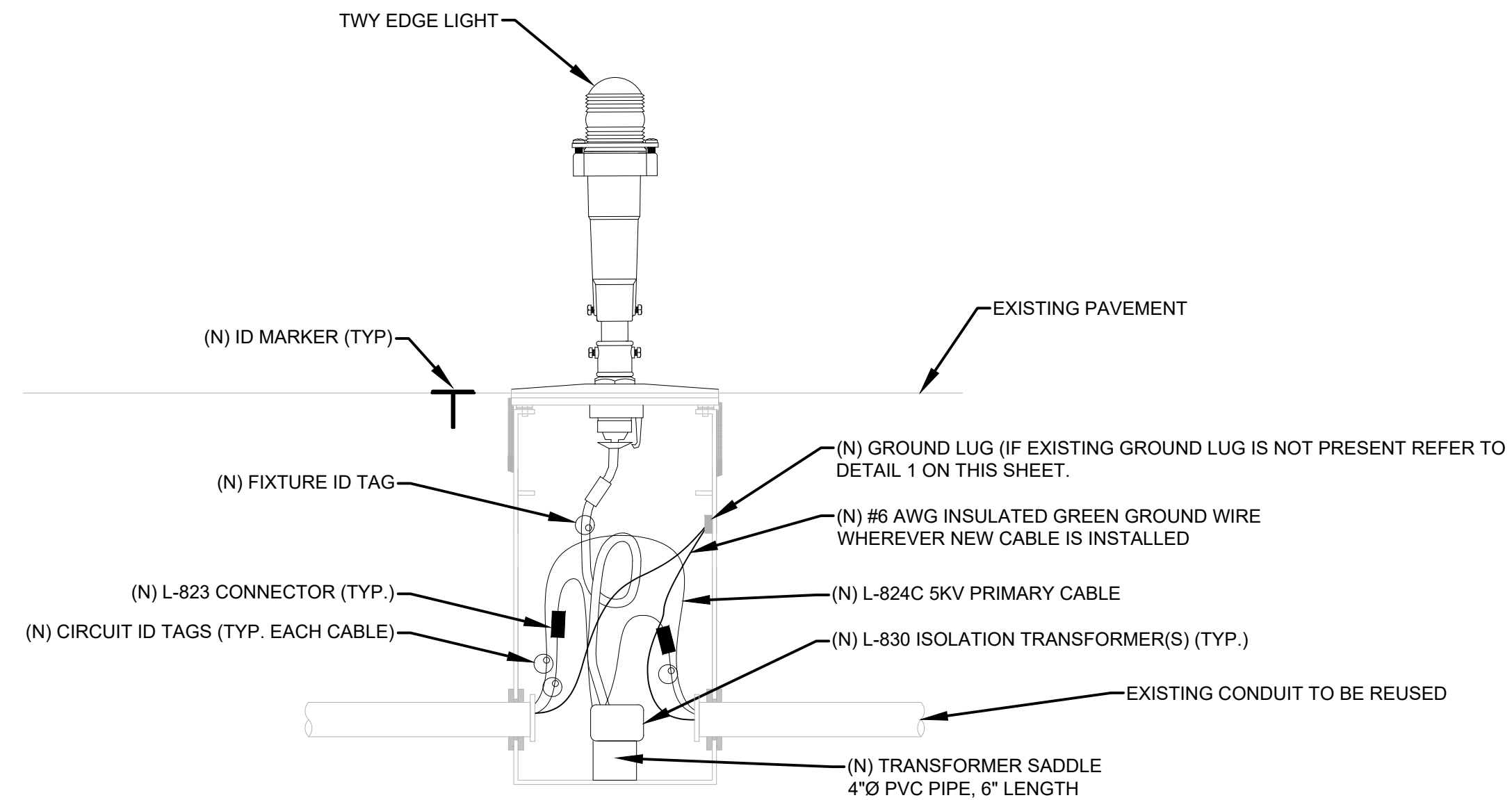
AFLC LOOP SCHEMATIC



NOTES:

1. LENGTH OF #6 INSULATED GROUND CONDUCTOR SHALL BE OF SUFFICIENT LENGTH TO ALLOW THE INSET OR ELEVATED LIGHT FIXTURE OR BASE PLATE TO BE EASILY SET ASIDE WITHOUT REMOVAL.
2. VACUUM OUT ANY DEBRIS AND METAL SHAVINGS FROM THE BOTTOM OF THE CAN.
3. INSTALL A 3/8" STAINLESS STEEL THREADED STUD (PRIOR TO INSTALLATION OF NEW CABLE) BY MEANS OF AN ARC STUD WELDING GUN, HBS A12 OR APPROVED EQUAL. AFTER WELDING THE STUD, THE CONTRACTOR SHALL COLD GALVANIZE THE INSIDE WALL OF THE BASE CAN AROUND THE STUD WELD. INSTALL COMPRESSION TERMINAL ON XHHW TO CONNECT TO STUD. PROVIDE BURNDY YA6CTC38 OR APPROVED EQUAL.
4. CONTRACTOR SHALL ASSUME THAT ALL BASE CANS REQUIRE GROUND LUG RETROFIT. COST FOR THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT WITH NO SEPARATE PAYMENT.
5. IF BASE CANS ARE PVC, CONTRACTOR SHALL TAP METAL TOP RING AND INSTALL CRIMP LUG ON BOTTOM SIDE OF THE TOP RING AND GROUND TO #6 INSULATED GREEN GROUND.
6. DETAIL APPLIES TO BASE CANS FOR BOTH ELEVATED AND IN-PAVEMENT FIXTURES.

1 RETROFIT EXISTING BASE CAN DETAIL
SCALE: NTS



NOTES:

1. REMOVE EXISTING BASE PLATE AND ELEVATED LIGHT FIXTURE. CLEAN AND PREP FOR REINSTALLATION.
2. REMOVE AND DISCARD CABLE, CONNECTORS, ISOLATION TRANSFORMER AND GROUND CONNECTIONS.
3. TOP OF CAN SHOULD BE CLEANED OF DEBRIS UTILIZING COMPRESSED AIR, INCLUDING BLOWING OUT DEBRIS FROM ALL BOLT HOLES. ALL BOLT HOLES SHALL BE BRUSHED OUT USING WEILER P/N#3H707 OR APPROVED EQUAL OR TAPPED PRIOR TO INSTALLATION OF NEW BOLTS.
4. WASH AND VACUUM ALL DEBRIS FROM INSIDE (E) BASE CAN.
5. CLEAN AND MANDREL (E) CONDUIT.
6. IF CONDUIT IS PROTRUDING MORE THAN 1.5", CUT CONDUIT AND INSTALL NEW BELL END (TYP.).
7. INSTALL NEW CABLE, CONNECTORS, ISOLATION TRANSFORMER, TRANSFORMER SADDLE, CABLE TAGS, BELL END AND GROUND CONNECTIONS.
8. INSTALL NEW LED LIGHT FIXTURE WITH NEW SAE J429 GRADE 5 CARBON STEEL, ANTI-CORROSION BOLTS (MFG. BY GBA COMPONENTS OR APPROVED EQUAL) AND WASHERS. ANTI-SEIZE MUST BE APPLIED THOROUGHLY TO THE ENTIRE BOLT THREAD UP TO A MAXIMUM OF 1/2" BELOW THE BOLT HEAD.
9. IF REQUIRED, RETROFIT GROUND LUG IN (E) BASE CAN. REFER TO DETAIL 1 THIS SHEET.

2 TYPICAL ELEVATED LIGHT INSTALLATION DETAIL (TWY EDGE)
SCALE: NTS

GENERAL NOTES

1. SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

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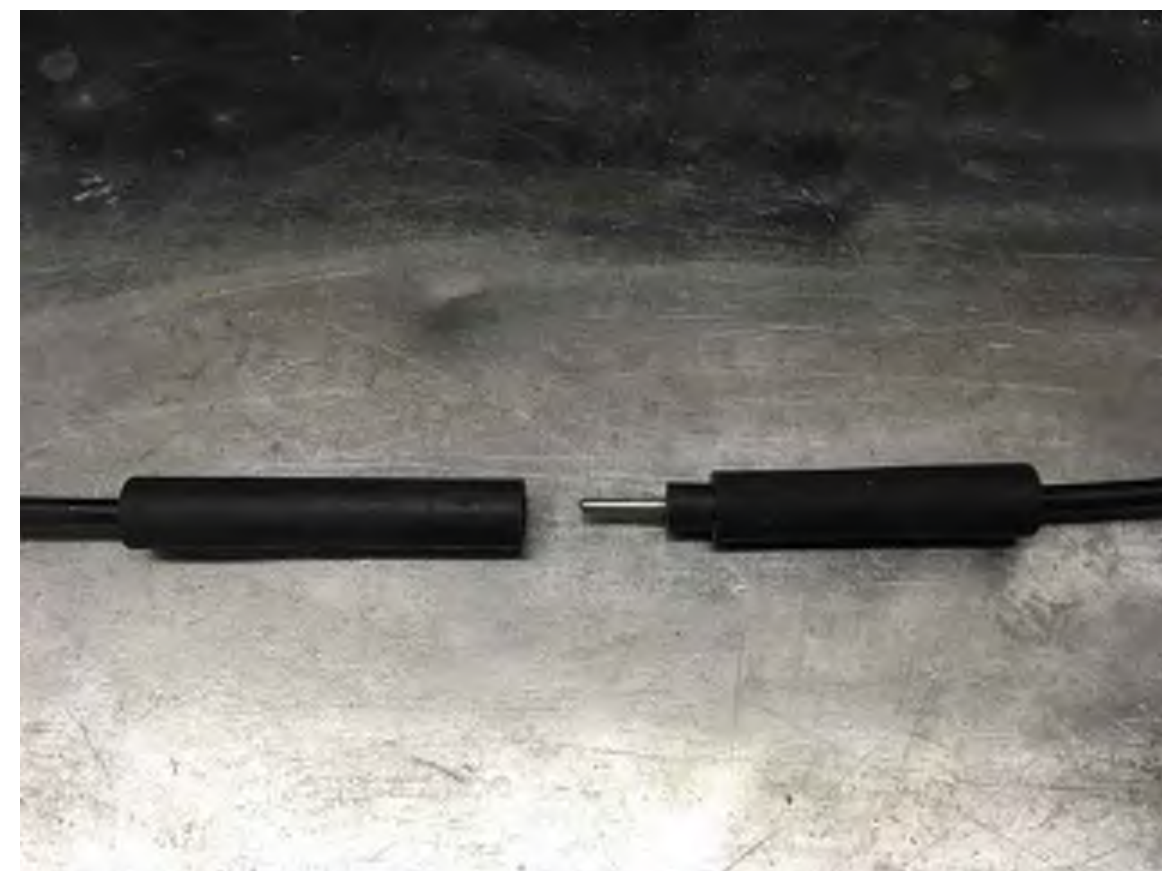
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**AIRFIELD
LIGHTING
DETAILS 1**

Sheet: **E6.01**

GENERAL NOTES

- SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



NOTES FOR STEP 1:

- PENCIL TAPER BOTH ENDS
- APPLY SILICONE
- CRIMP CONNECTOR ENDS ONTO CABLE

1A STEP 1
SCALE: NTS



NOTES FOR STEP 2:

- APPLY SCOTCH 130C RUBBER TAPE HALF-LAPPED FOR A TOTAL WIDTH OF 2" AT THE CONNECTION POINT AND BOTH ENDS

1B STEP 2
SCALE: NTS



NOTES FOR STEP 3:

- APPLY SCOTCH 88 HALF LAPPED 3" AT THE CONNECTION POINT AND BOTH ENDS, COMPLETELY COVERING THE RUBBER TAPE.

1C STEP 3
SCALE: NTS

INSTALLATION NOTES:

- CONTRACTOR SHALL HAVE A MECHANICAL CRIMPING TOOL AND PENCIL TAPER ON SITE.
- MAKE ALL CONNECTIONS WITH THESE TOOLS. ALL PERSONNEL PERFORMING SPLICES AND SUPERVISOR SHALL ATTEND A 1/2 HOUR TRAINING SEMINAR CONDUCTED BY A REPRESENTATIVE OF THE SPLICE KIT MANUFACTURER. COST FOR THE TRAINING SHALL BE INCIDENTAL TO THE CONTRACT WITH NO SEPARATE PAYMENT. NO EXCEPTIONS WILL BE ALLOWED. INSPECTOR SHALL MAINTAIN A LIST AT ALL TIMES OF CERTIFIED PERSONNEL.
- SUPPLY A LIBERAL AMOUNT OF LUBRICANT SILICONE 5 OZTUBE, PRODUCT #G-661 AS SUPPLIED BY ANIXTER, OR APPROVED EQUAL ON CONNECTIONS BETWEEN CABLE AND CONNECTOR.
- CONTRACTOR SHALL OBTAIN MANUFACTURING INSTALLATION INSTRUCTIONS PRIOR TO BID. SUBMIT AS PART OF SHOP DRAWING.
- THIS DETAIL SHALL ONLY BE USED BETWEEN THE TRANSFORMER AND PRIMARY HOME RUN CABLE INSIDE THE BASECAN.

1A L-823 CONNECTOR KIT DETAIL (CLASSIC KIT)
SCALE: NTS

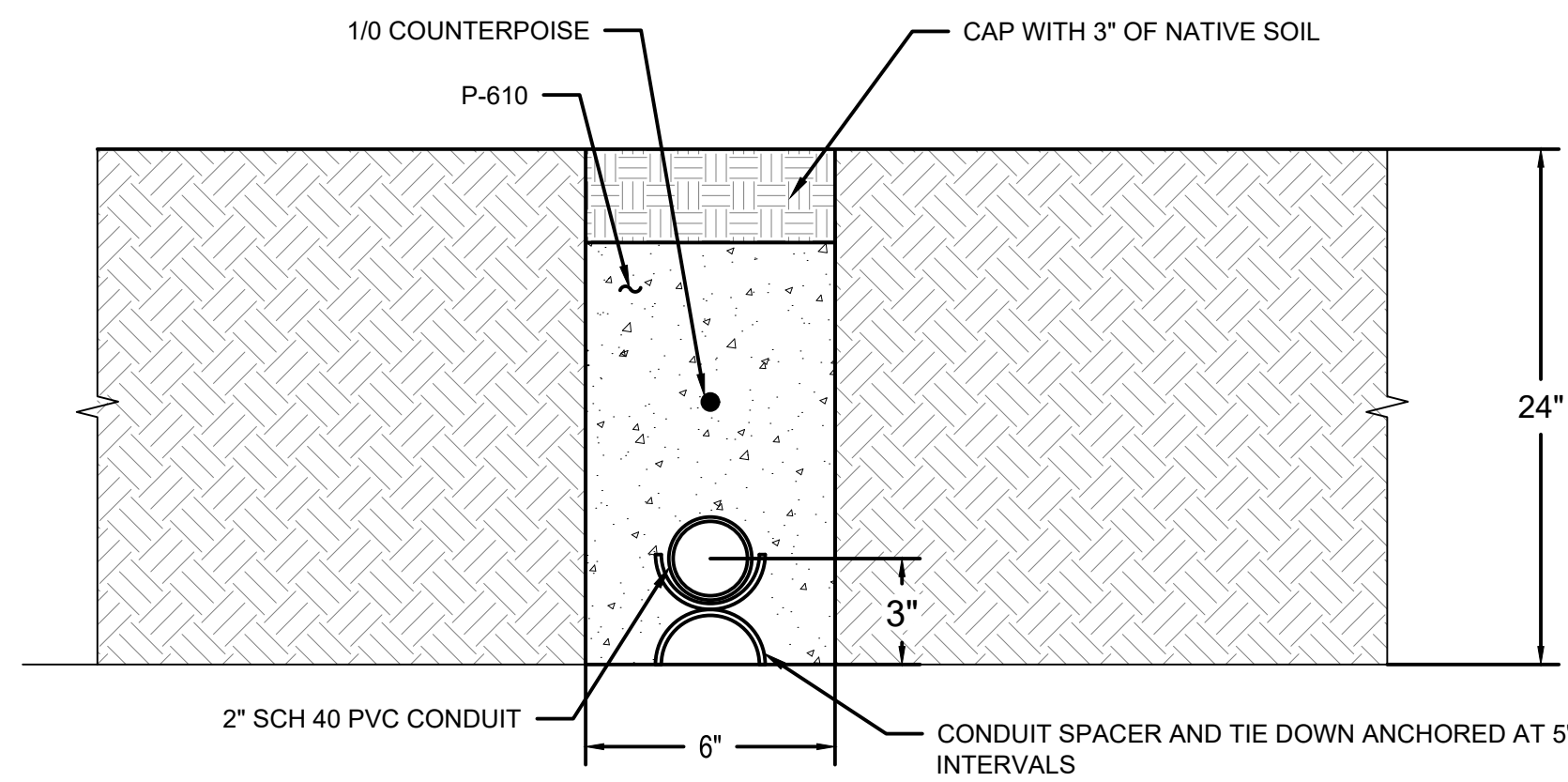
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Date: 12/2022
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**AIRFIELD
LIGHTING
DETAILS 2**

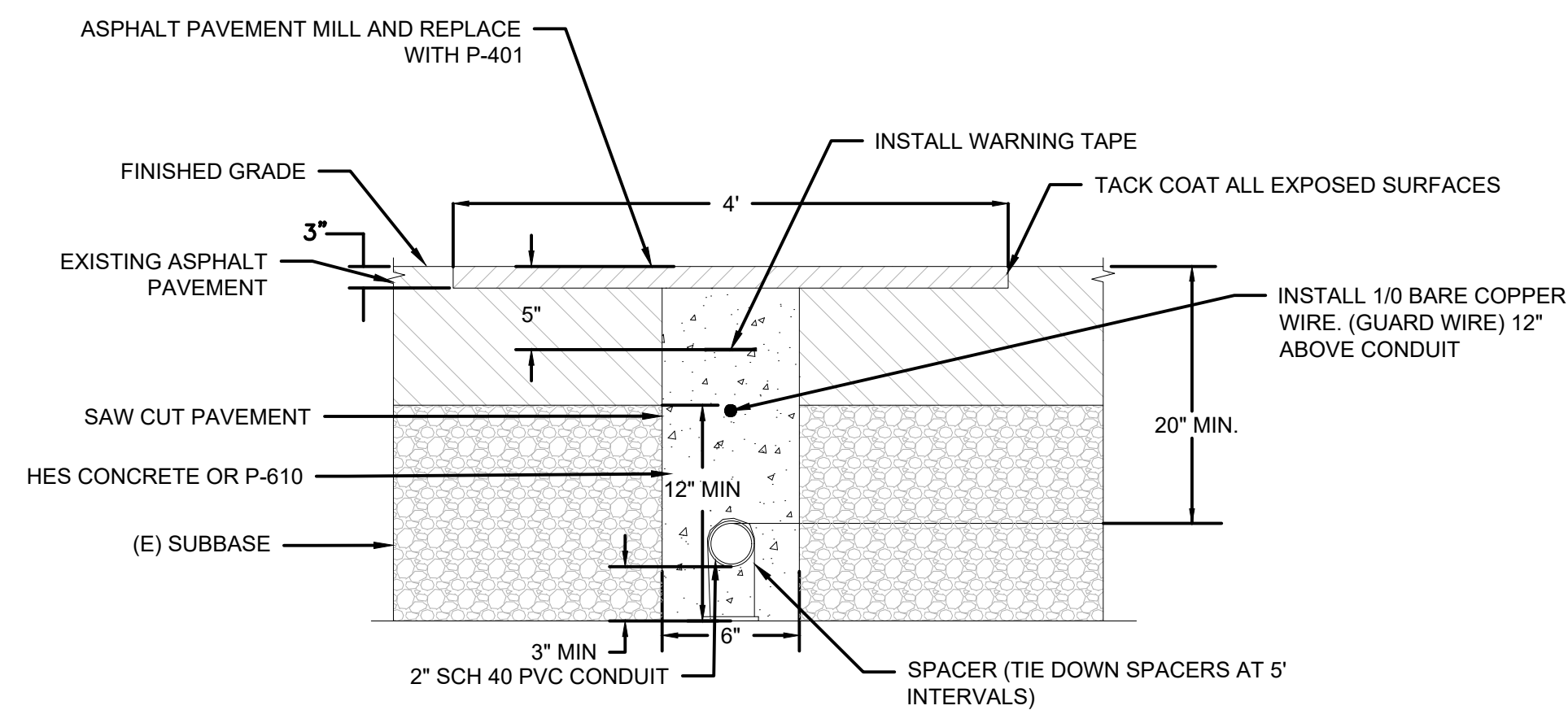
Sheet: **E6.02**



NOTES:

- 6" WIDE TRENCH IN ASPHALT PAVEMENT TO MIN. 24" DEPTH. THOROUGHLY CLEAN CUT.
- ENCASE WITH CONCRETE AS SHOWN.
- CONTRACTOR SHALL FILL CONCRETE 21" UP TO EXISTING GRADE AND THEN CAP WITH 3" OF EXISTING NATIVE SOIL. THE COST OF THIS ADDITIONAL CONCRETE IS INCIDENTAL TO THE COST OF THE CONDUIT INSTALLATION WITH NO SEPARATE PAYMENT. CONTRACTOR SHALL SCHEDULE WORK TO ENSURE THAT CONCRETE ENCASEMENT OF CONDUIT REACHED MINIMUM OF 3000 PSI AT LEAST 1 HOUR PRIOR TO ANY AIRPLANE TRAFFIC FOR TAXIWAY REOPENING.

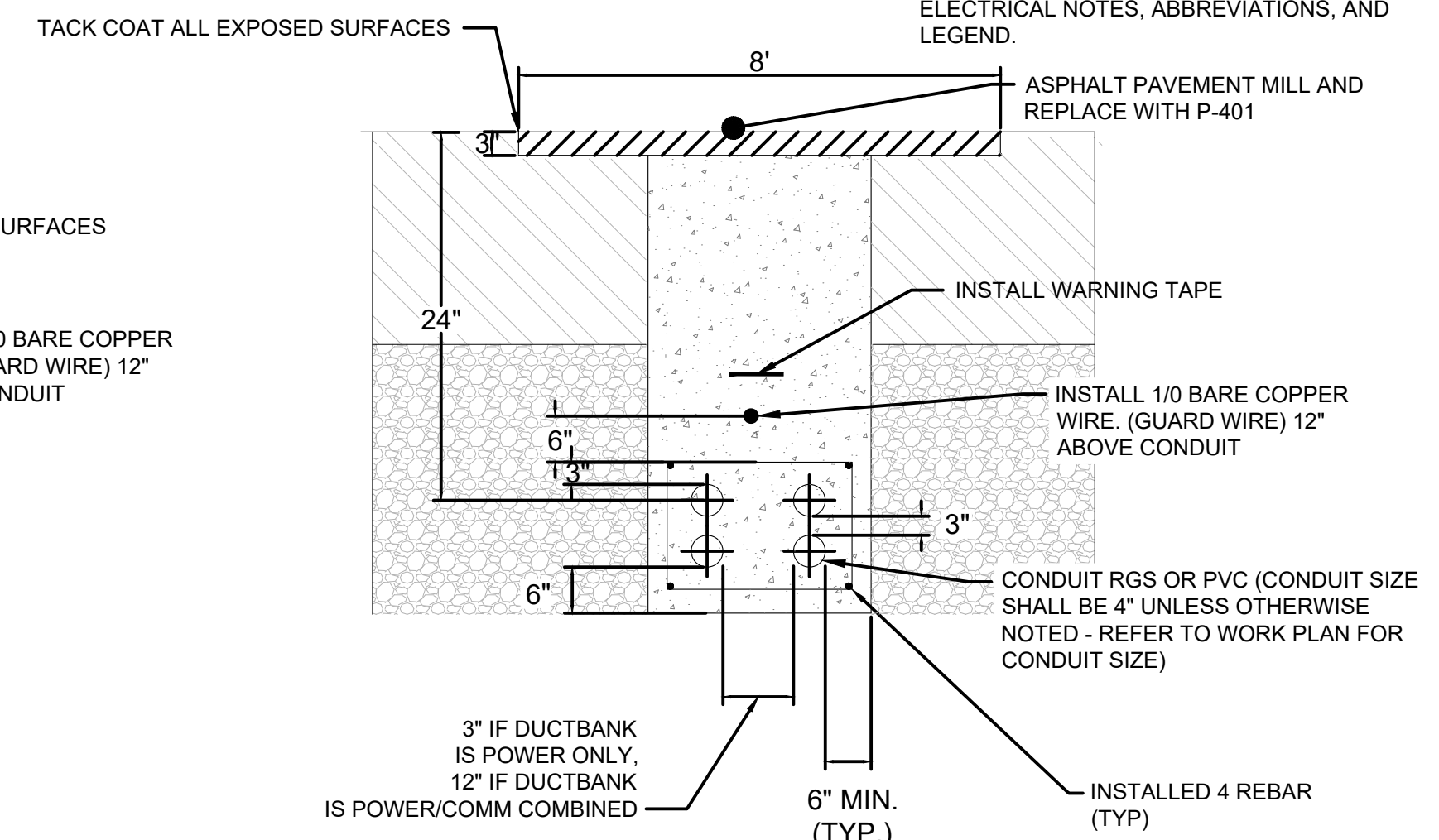
1 1W-2" CONDUIT IN NON-PAVED EARTH (NATIVE SOIL)
SCALE: NTS



NOTES:

- SAWCUT 6" WIDE TRENCH IN EXISTING ASPHALT PAVEMENT TO MIN. 20" DEPTH. THOROUGHLY CLEAN CUT.
- ENCASE WITH CONCRETE AS SHOWN.
- COMPLETE ASPHALT PAVEMENT RESTORATION AS SHOWN.
- CONTRACTOR SHALL SCHEDULE WORK TO ENSURE THAT CONCRETE ENCASEMENT OF CONDUIT REACHED MINIMUM OF 3000 PSI AT LEAST 1 HOUR PRIOR TO ANY AIRPLANE TRAFFIC FOR RUNWAY REOPENING.

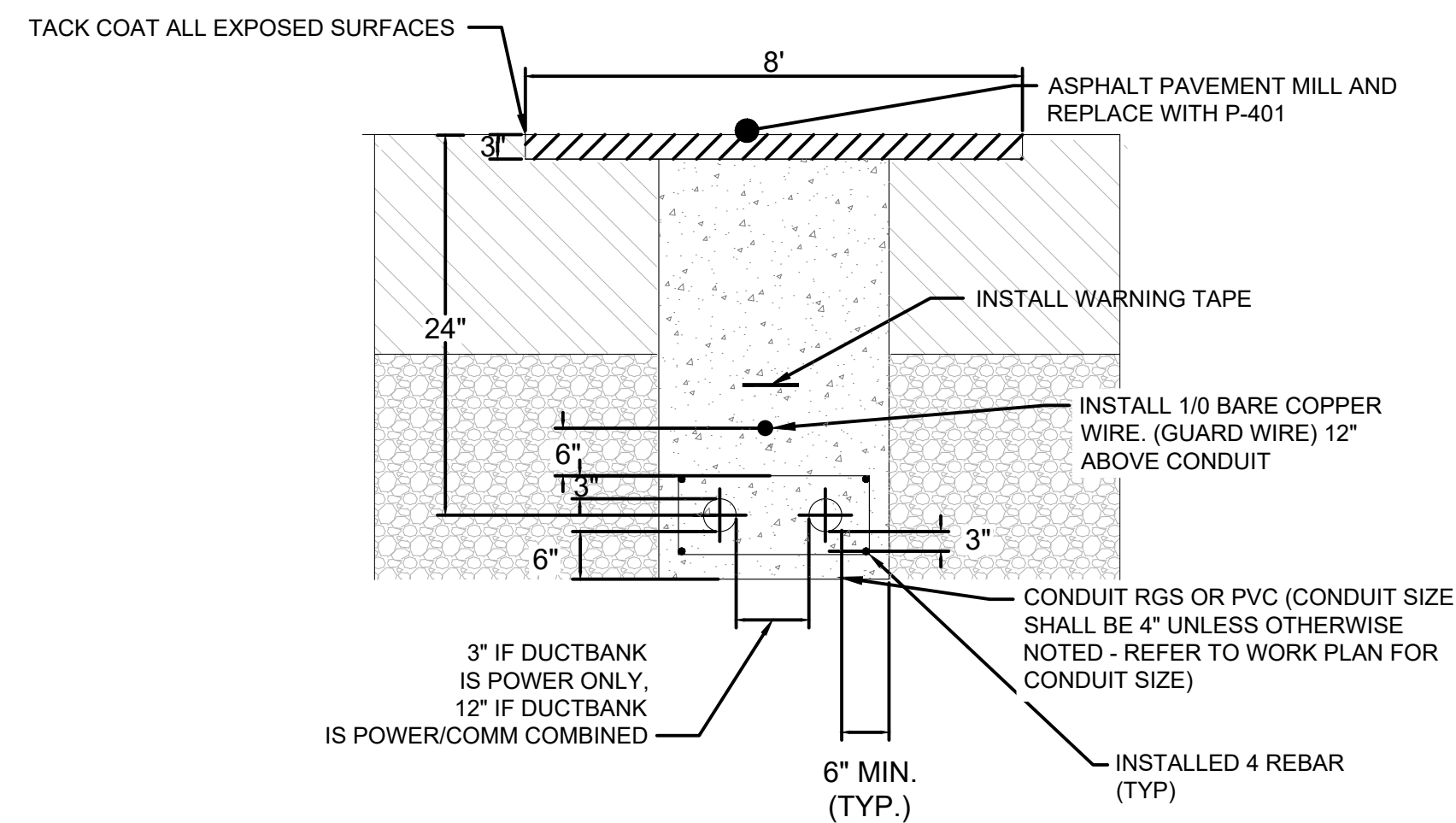
2 CONDUIT INSTALLATION IN EXISTING ASPHALT PAVEMENT
SCALE: NTS



NOTES:

- SAWCUT 6" WIDE TRENCH IN EXISTING ASPHALT PAVEMENT TO MIN. 20" DEPTH. THOROUGHLY CLEAN CUT.
- ENCASE WITH CONCRETE AS SHOWN.
- COMPLETE ASPHALT PAVEMENT RESTORATION AS SHOWN.
- CONTRACTOR SHALL SCHEDULE WORK TO ENSURE THAT CONCRETE ENCASEMENT OF CONDUIT REACHED MINIMUM OF 3000 PSI AT LEAST 1 HOUR PRIOR TO ANY AIRPLANE TRAFFIC FOR RUNWAY REOPENING.

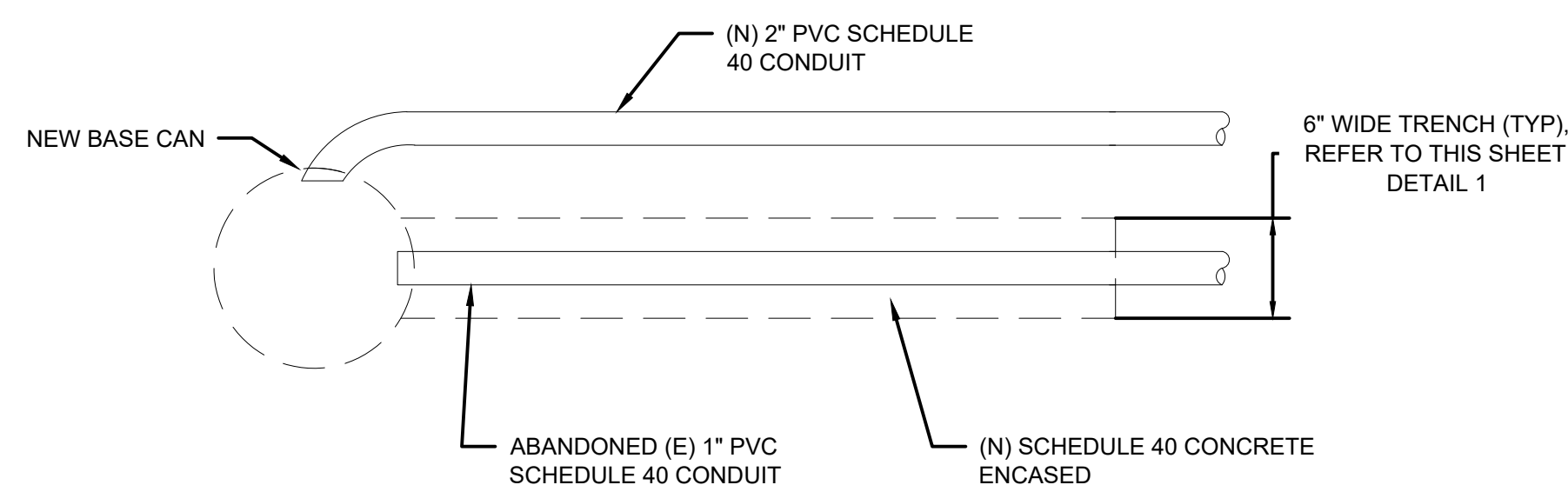
3 4W-4" CONDUIT INSTALLATION IN EXISTING ASPHALT PAVEMENT
SCALE: NTS



NOTES:

- SAWCUT 6" WIDE TRENCH IN EXISTING ASPHALT PAVEMENT TO MIN. 20" DEPTH. THOROUGHLY CLEAN CUT.
- ENCASE WITH CONCRETE AS SHOWN.
- COMPLETE ASPHALT PAVEMENT RESTORATION AS SHOWN.
- CONTRACTOR SHALL SCHEDULE WORK TO ENSURE THAT CONCRETE ENCASEMENT OF CONDUIT REACHED MINIMUM OF 3000 PSI AT LEAST 1 HOUR PRIOR TO ANY AIRPLANE TRAFFIC FOR RUNWAY REOPENING.

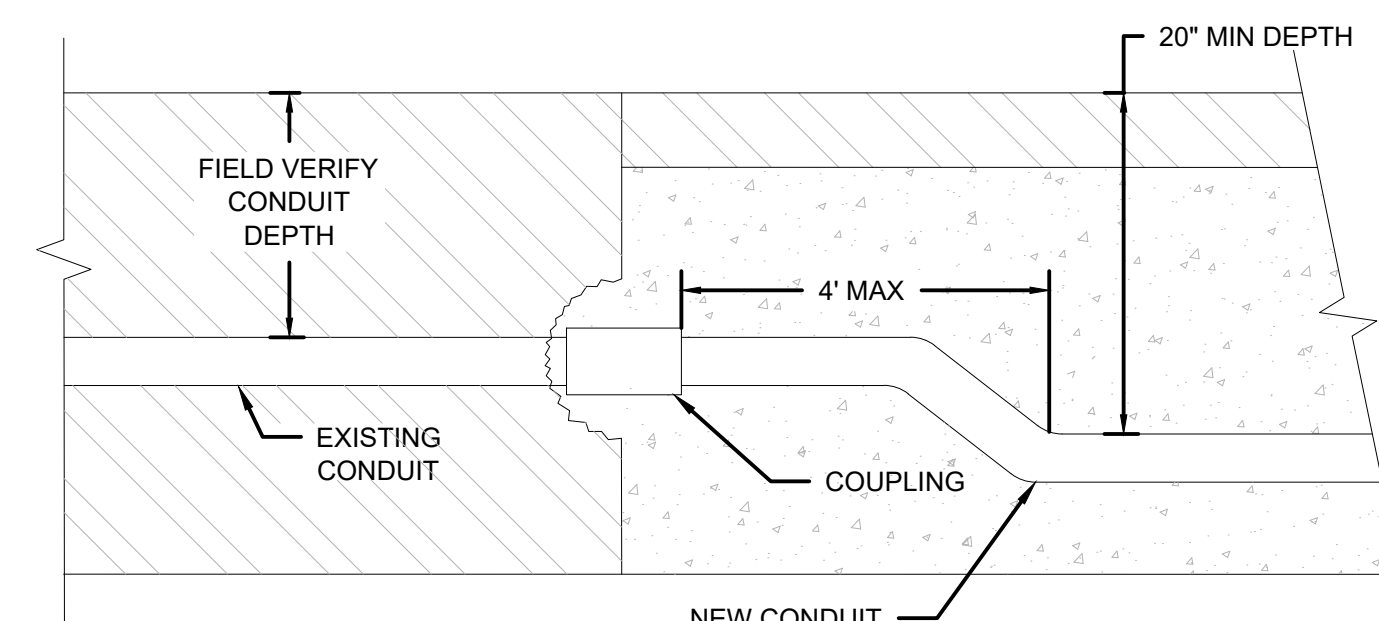
4 2W-4" CONDUIT INSTALLATION IN EXISTING ASPHALT PAVEMENT
SCALE: NTS



DETAIL 4 NOTES:

- PROVIDE SMOOTH CURVES AND ENTER BASE CAN PERPENDICULAR TO SIDE.
- PROVIDE A MINIMUM 3' LONG CONDUIT TRANSITION. INSTALL CONDUIT AT FULL DEPTH.

5 CONNECTING NEW CONDUIT TO EXISTING BASE CAN
SCALE: NTS



NOTES:

- LOCATE EXISTING CONDUIT WHICH IS BEING INTERCEPTED AND FIELD VERIFY CONDUIT DEPTH.
- SAW CUT A 4'x4' MINIMUM SECTION OF PAVEMENT AND HAND EXCAVATE AT POINT OF CONNECTION. CUT CONDUIT AND CHISEL OUT AN AREA AROUND CONDUIT END.
- CLEAN CONDUIT AND INSTALL A COUPLING.
- SAW CUT OR KERF TRENCH FOR NEW CONDUIT TO EXCAVATED HOLE AREA.
- INSTALL NEW CONDUIT AS INDICATED IN CONDUIT INSTALLATIONS.
- IF EXISTING CONDUIT DEPTH IS LESS THAN THE NEW CONDUIT TRANSITION TO GREATER DEPTH.
- RESTORE THE CEMENT TREATED BASE BY POURING (N) P-610.

6 EXISTING CONDUIT CONNECTION DETAIL
SCALE: NTS

GENERAL NOTES

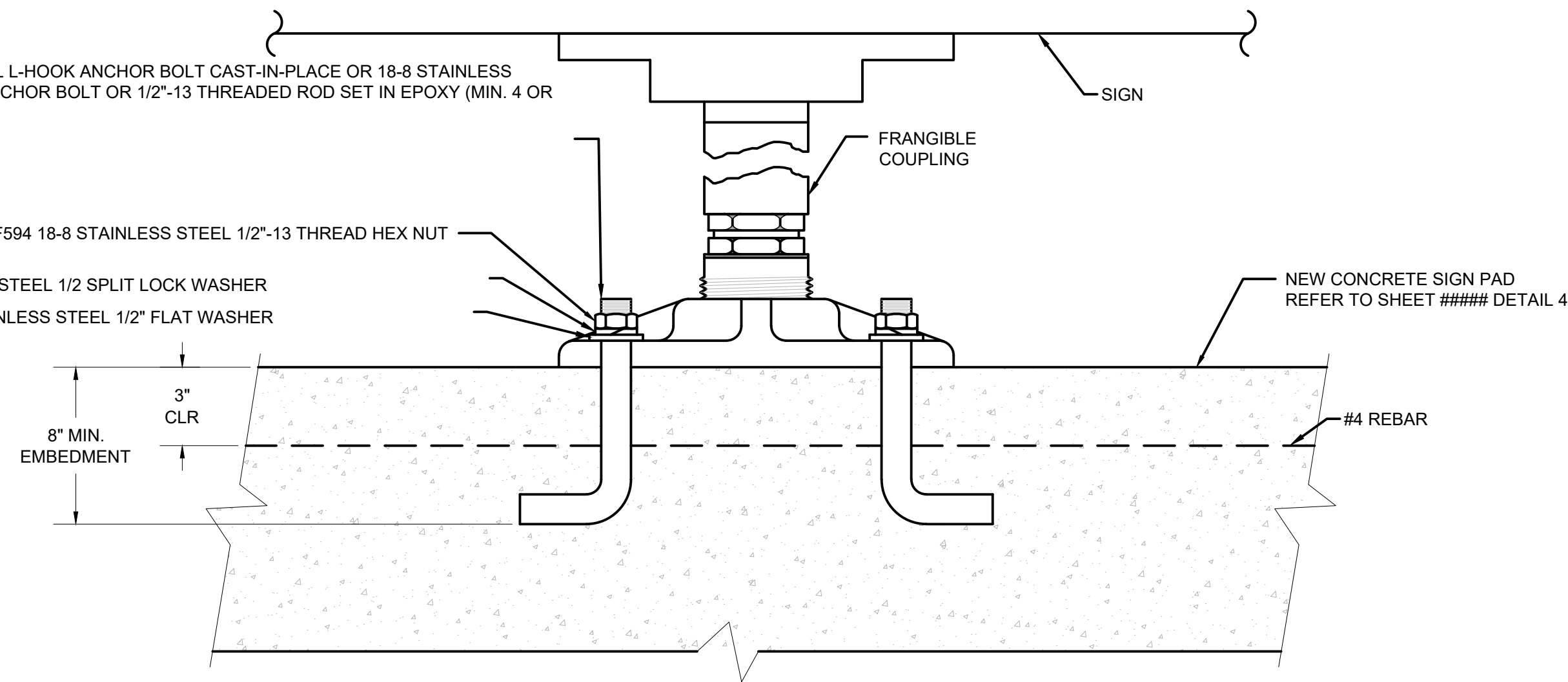
- SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

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18-8 STAINLESS STEEL L-HOOK ANCHOR BOLT CAST-IN-PLACE OR 18-8 STAINLESS STEEL EXPANSION ANCHOR BOLT OR 1/2"-13 THREADED ROD SET IN EPOXY (MIN. 4 OR AS REQ'D BY MFG.)

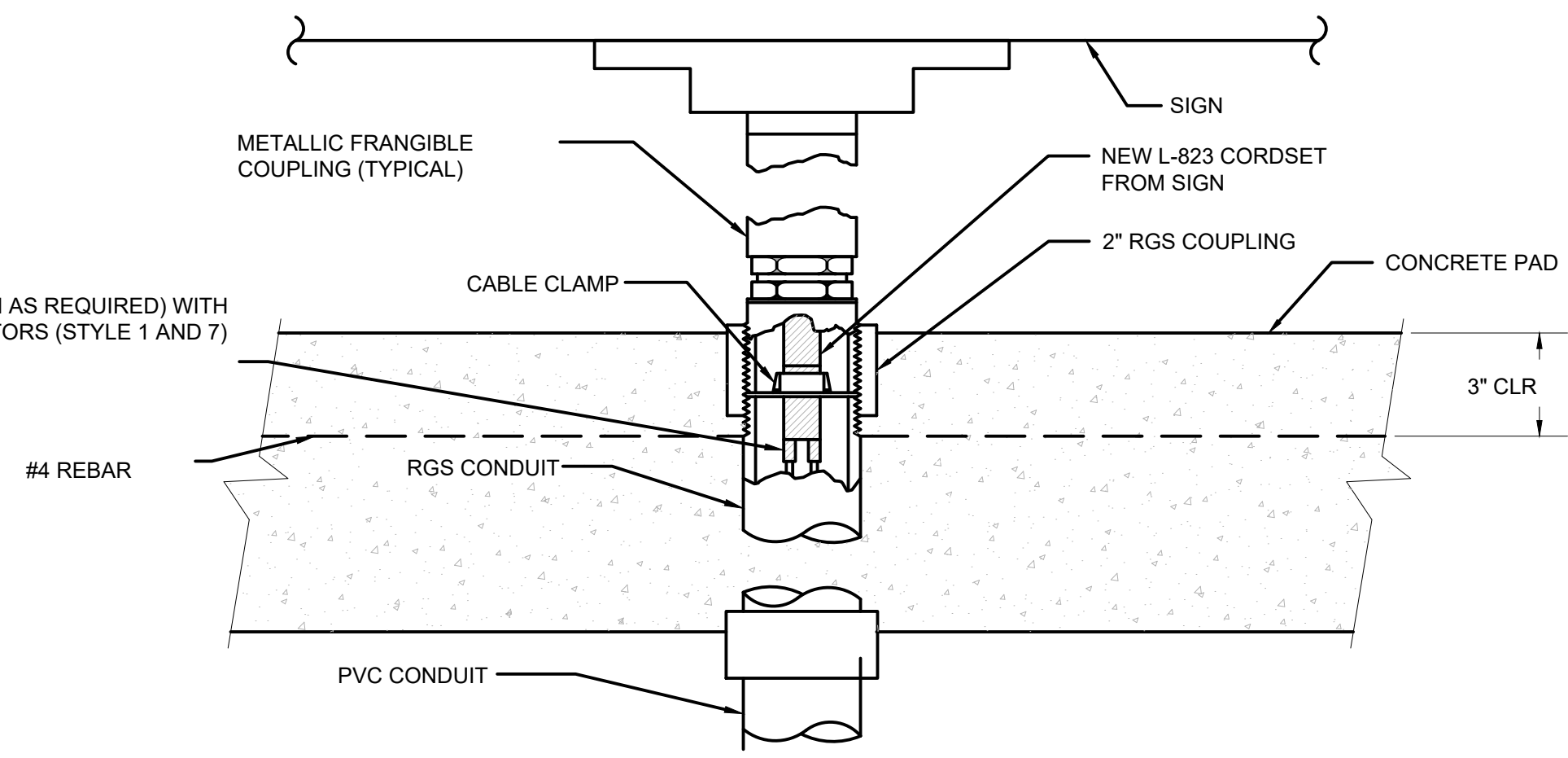


1 ANCHOR "J" BOLT DETAIL - NEW CONCRETE PAD
SCALE: NTS

GENERAL NOTES

- SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

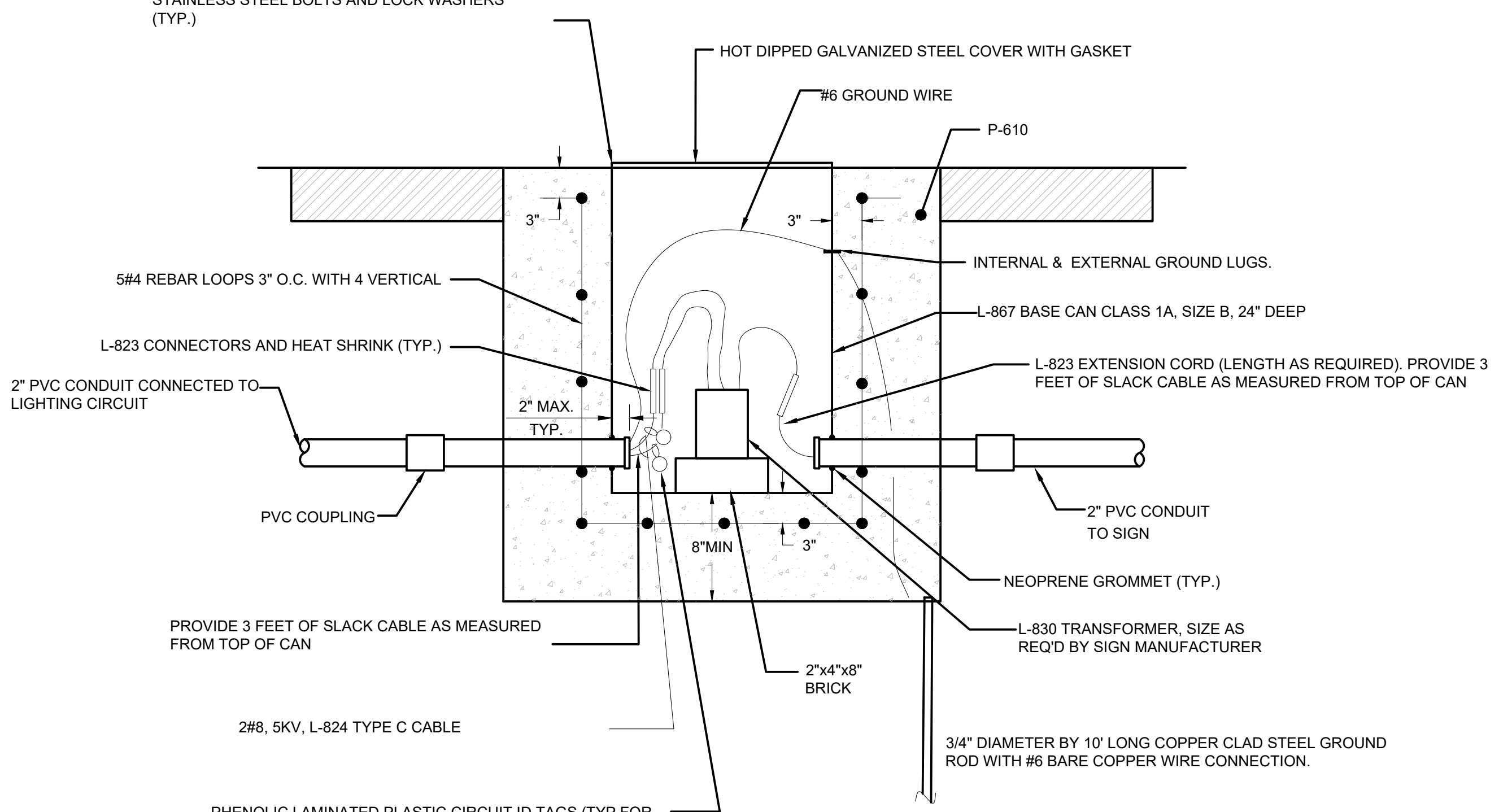
NEW L-823 EXTENSION CORD (LENGTH AS REQUIRED) WITH L-823 CONNECTORS (STYLE 1 AND 7)



NOTE: DETAIL APPLIES TO NEW CONCRETE PAD CONSTRUCTION AND NEW SIGNAGE POWER LEG/LOCATION.

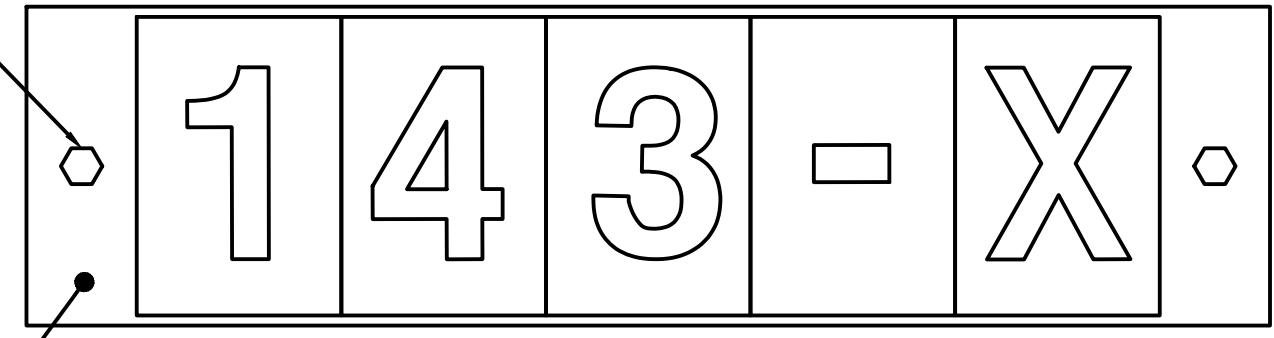
2 POWER LEG DETAIL - NEW CONCRETE PAD
SCALE: NTS

STAINLESS STEEL BOLTS AND LOCK WASHERS (TYP.)



3 NEW AIRFIELD GUIDANCE SIGN BASE CAN DETAIL
SCALE: NTS

SELF-TAPPING SCREW (2 TYP.)



BLACK AND YELLOW LETTERING, RETRO REFLECTOR

NOTE: PROVIDE MINIMUM 2" TALL LETTERING

4 TYPICAL SIGN ID TAG
SCALE: NTS

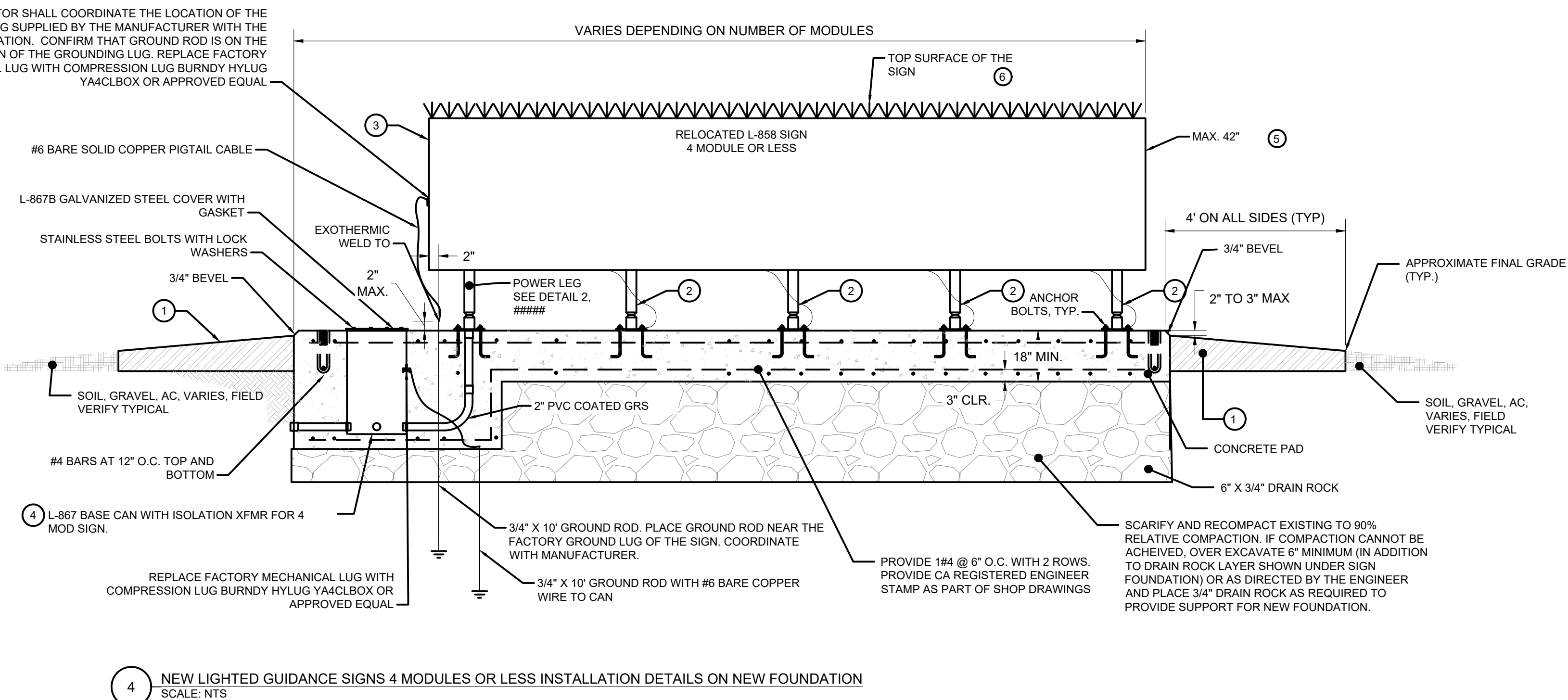
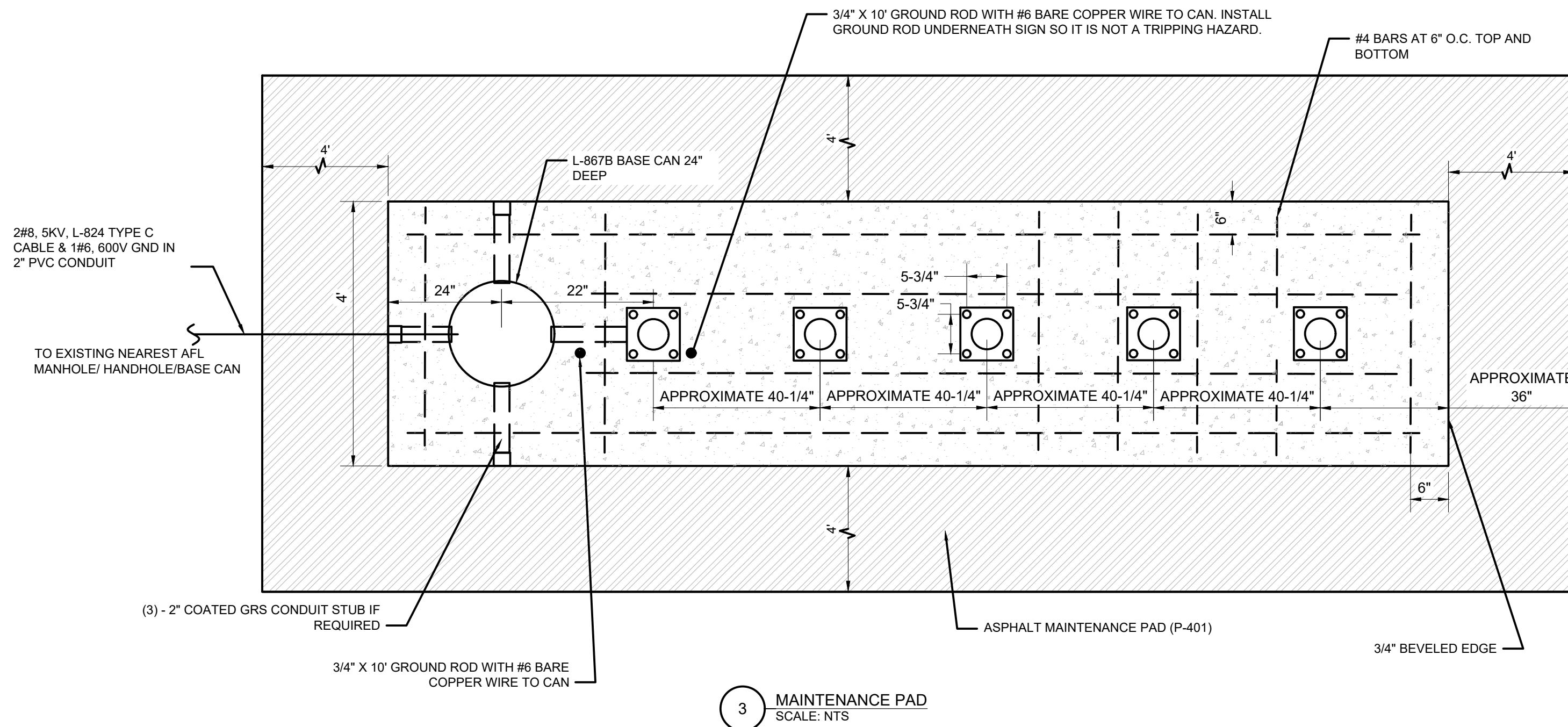
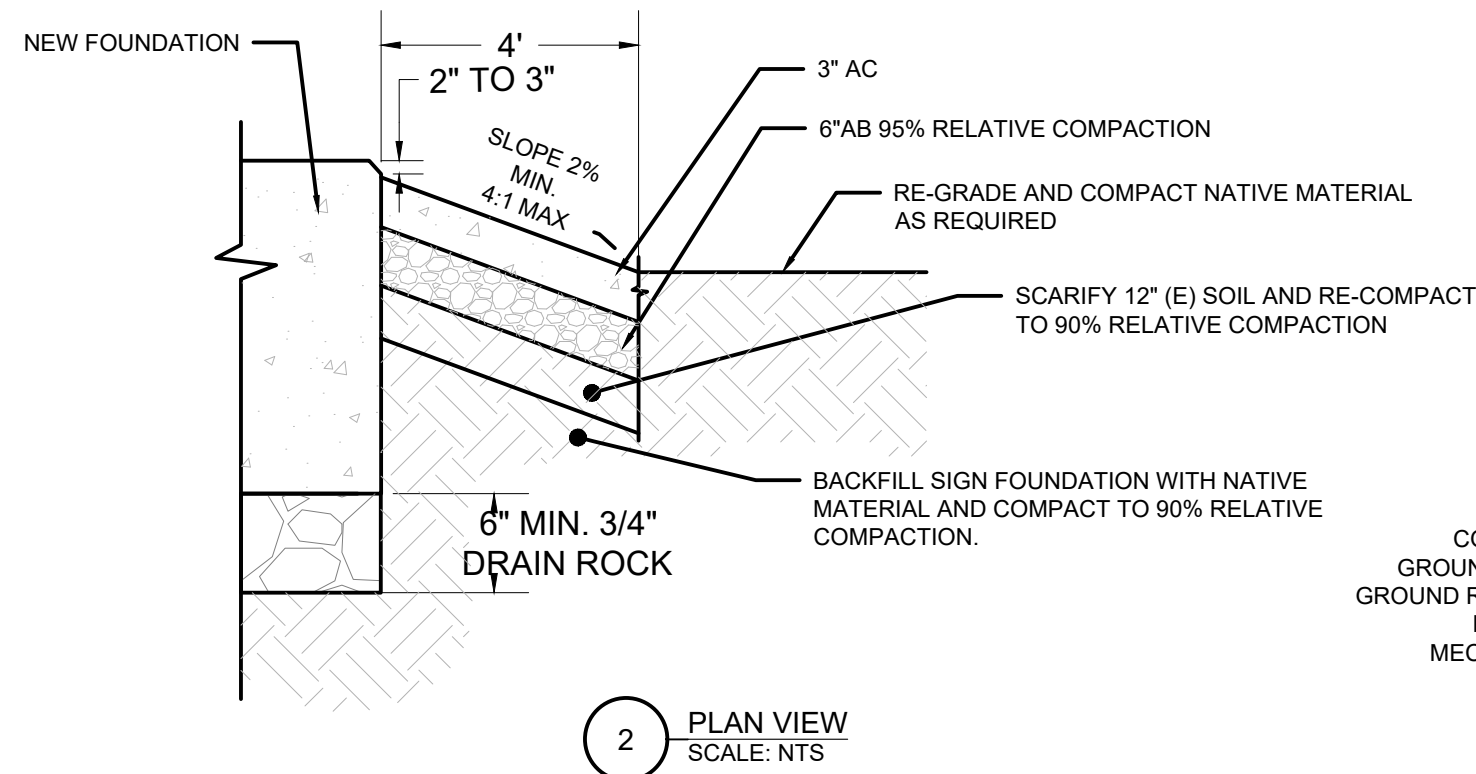
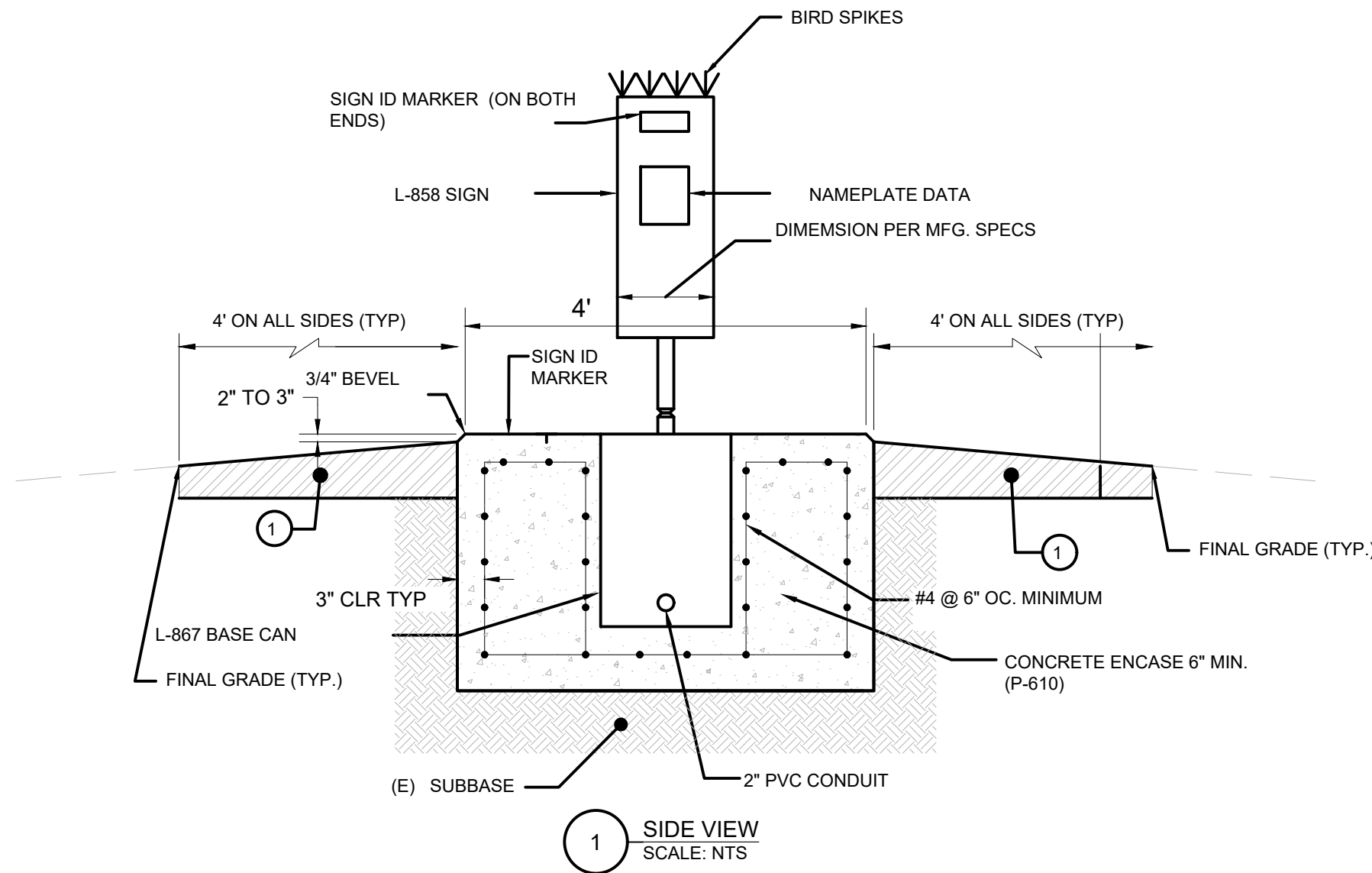
No.	Revision	Date	By

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Checked: JA
Approved: DL

GENERAL NOTES

- SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



KEY NOTES:

- PROVIDE 4" MAINTENANCE PAD AROUND SIGN PAD. REFER TO DETAIL 4 ON THE SAME SHEET.
- TETHER. MINIMUM 1 PER MODULE AND AT LEAST 2 TETHERS PER SIGN.
- INSTALL NEW SIGNS PER MANUFACTURER MOUNTING PLATE TEMPLATE, RECOMMENDATIONS, AND INSTRUCTIONS. NUMBER AND SPACING OF LEGS AS PER MANUFACTURERS REQUIREMENTS. EXISTING SIGNS ARE MANUFACTURED BY ADB.
- FOR RELOCATED SIGNS REUSE TRANSFORMERS. FOR NEW SIGNS PROVIDE TRANSFORMER PER MFG. RECOMMENDATIONS. PROVIDE NEW L-823 EXTENSION CORDSET OR REQUIRED LENGTH.
- PROVIDE GUIDANCE SIGN IDENTIFICATION MARKER ON EACH END OF THE SIGN (TOTAL OF TWO MARKERS PER SIGN).
- INSTALL BIRD SPIKES.

GENERAL NOTES:

- SEE SHEETS ##### & ##### FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.
- CONTRACTOR SHALL VERIFY THE LOCATION OF THE SOURCE OF POWER TO THE SIGN WHETHER IT'S A LIGHT FIXTURE OR HANDHOLE.
- INSTALL NEW OR RELOCATED SIGN, TRANSFORMER, FOUNDATION, SECONDARY CABLES, CONDUIT, AND CONNECT TO THE EXISTING CIRCUIT.
- CONTRACTOR SHALL BLUE STAKE THE LOCATION OF THE SIGN AND SIGN FOUNDATION (ALL FOUR CORNERS) PRIOR TO INSTALLING THE FOUNDATION. CONTRACTOR SHALL SUPPLY A SURVEY SHOP DRAWING THAT SHOWS THE LOCATION AND ELEVATION OF THE FOUR CORNERS OF SIGN FOUNDATION, FOUR CORNER LOCATION AND ELEVATION OF THE MAINTENANCE PAD AND AN ADDITIONAL LOCATION AND ELEVATION OF 15" DIAGONAL FROM EACH CORNER OF THE SIGN FOUNDATION FOR ENGINEER'S APPROVAL.

Revision	Date	By

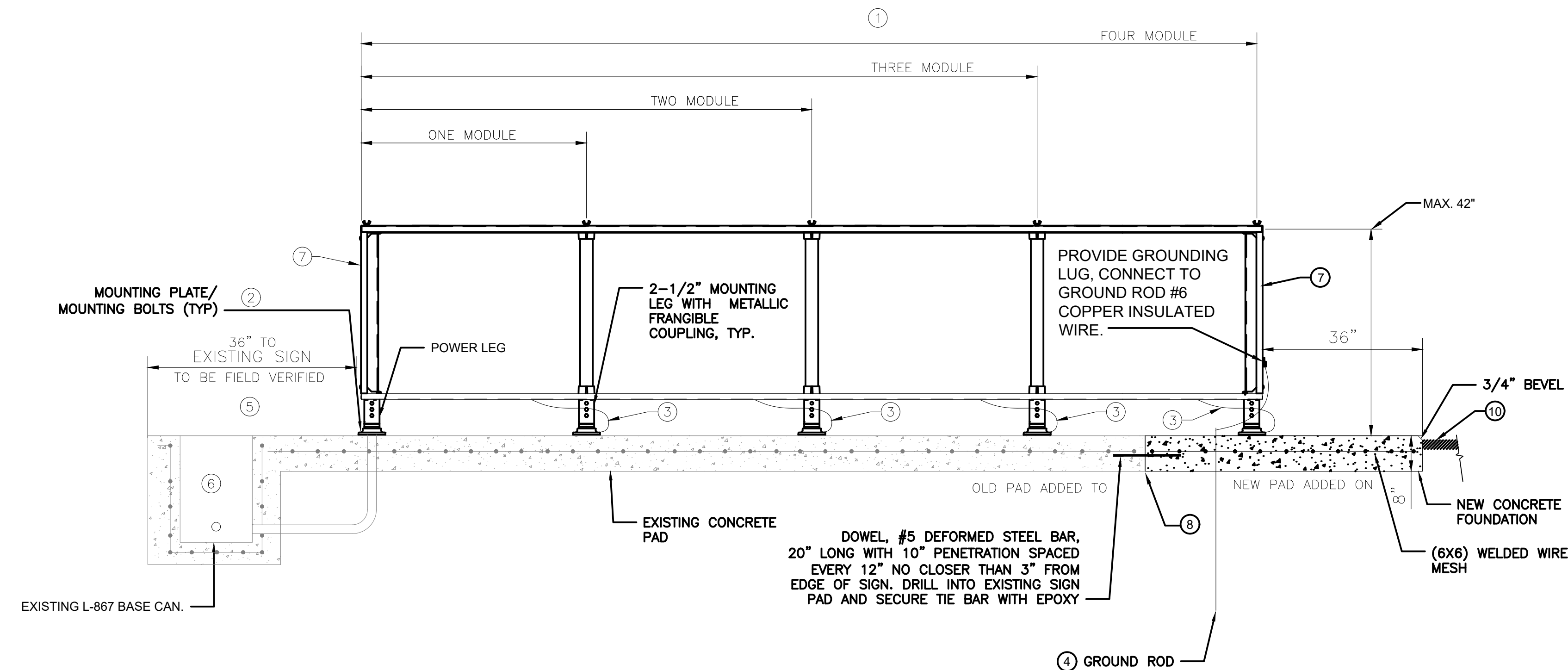
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Approved:	DL

AIRFIELD LIGHTING DETAILS 5

GENERAL NOTES

- SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



1 NEW GUIDANCE SIGN (4 MODULES OR LESS) ON EXTENDED FOUNDATION
SCALE: NTS

NEW SIGN KEY NOTES:

- IF THE NEW SIGN POWER AND MOUNTING LEGS DO NOT MATCH THE EXISTING, PROVIDE NEW STAINLESS STEEL HILTI BOLTS AND EXPANSION ANCHORS FOR NEW MOUNTING PLATES. REFER TO DETAILS ON E5.05. ASSUME EVERY NEW SIGN ON EXISTING FOUNDATION REQUIRES NEW BOLTS. INSTALL NEW SIGN PER MANUFACTURER MOUNTING PLATE TEMPLATE, RECOMMENDATIONS, AND INSTRUCTIONS.
- INSTALL NEW MOUNTING PLATE FOR POWER LEG ON EXISTING 2" CONDUIT FROM EXISTING L-867 BASE CAN. SEE DETAIL 2, DRAWING E5.05.
- TETHER. MINIMUM 1 PER MODULE AND AT LEAST 2 TETHERS PER SIGN. TETHER LENGTH SHALL BE 1'.
- PROVIDE 3/4"x10' COPPER CLAD GROUND ROD, DRILL A HOLE THRU PAD IF REQUIRED. INSTALL DIRECTLY UNDER SIGN TO ELIMINATE TRIP HAZARD.
- FIELD VERIFY DISTANCE OF EXISTING L-867 BASE CAN FROM SIGN TO CONFIRM REQUIRED LENGTH OF NEW L-823 EXTENSION CORD REQUIRED. PERFORM THIS PRIOR TO SHOP DRAWING SUBMISSION. PROVIDE INFORMATION AS PART OF SHOP DRAWING.
- PROVIDE NEW L-830 ISOLATION TRANSFORMER TO MATCH TOTAL SIGN VA LOAD PER MANUFACTURER'S RECOMMENDATION. PROVIDE NEW CORDSET EXTENSION CORD AT REQUIRED LENGTH.
- PROVIDE GUIDANCE SIGN IDENTIFICATION MARKER ON EACH END OF THE SIGN (TOTAL OF TWO MARKERS PER SIGN).
- IF JOINT IS WITHIN 6" OF MOUNTING LEG BOLT, SAWCUT EXISTING CONCRETE PAD BACK (AND REMOVE SPOILS) TO OBTAIN A MOUNTING BOLT LOCATION OUTSIDE OF THE 6" RESTRICTION.

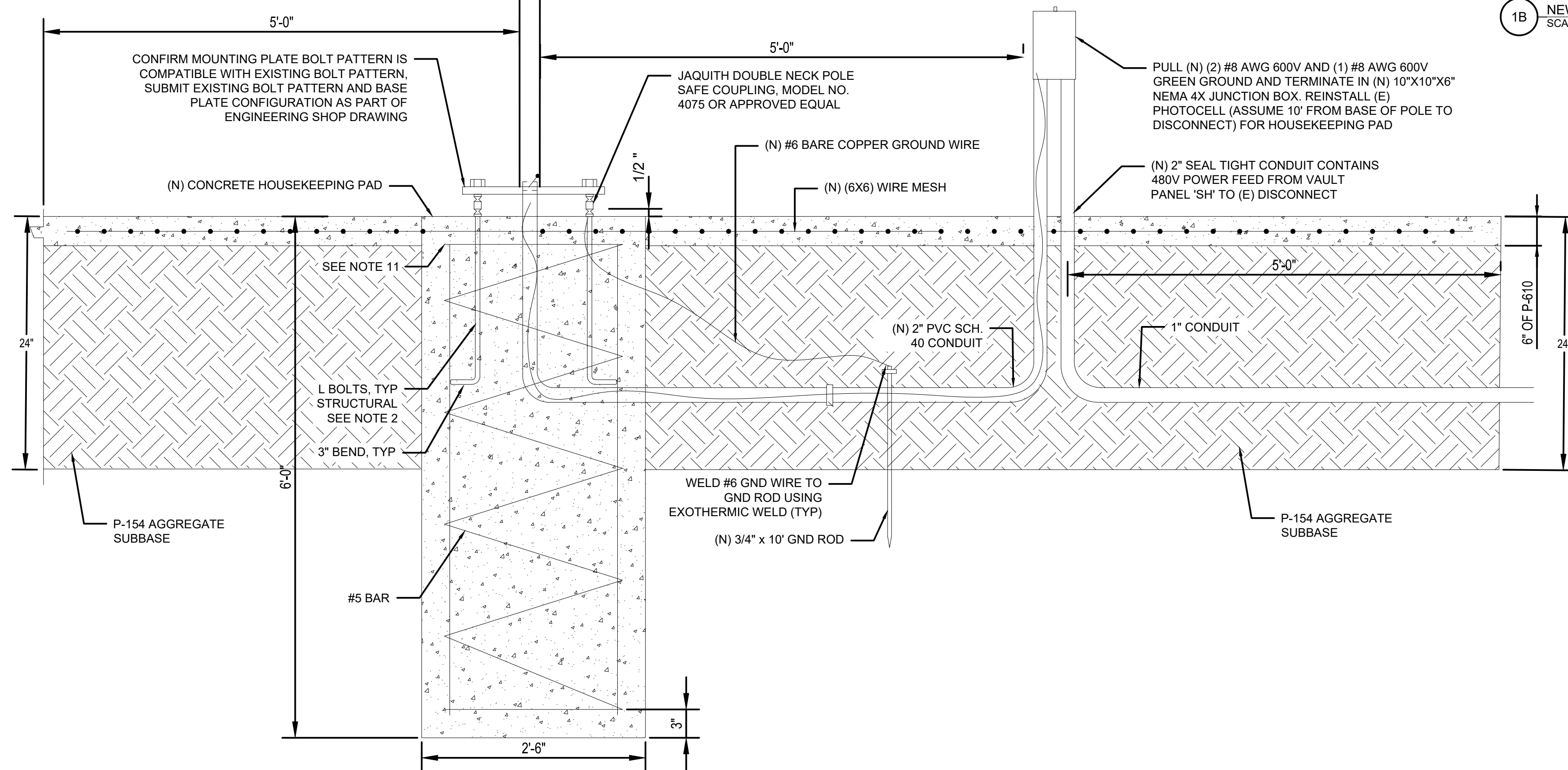
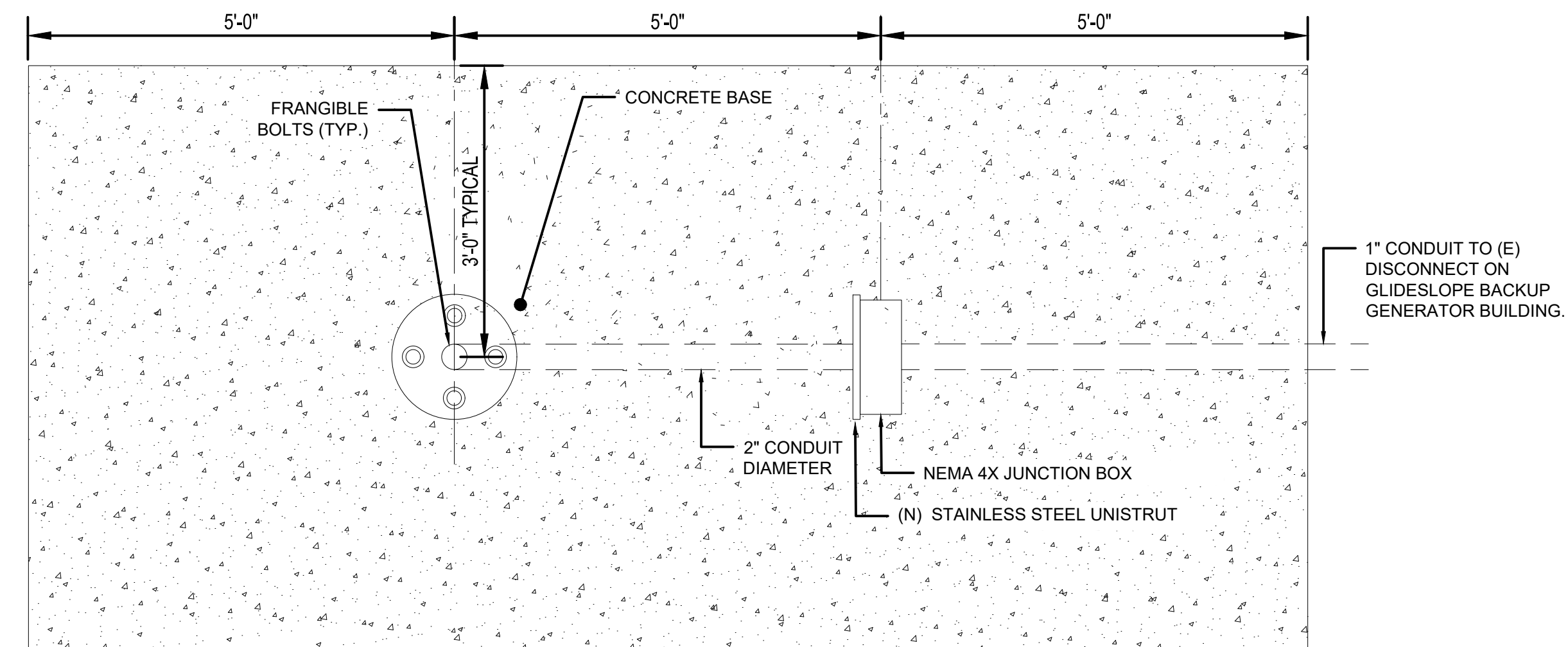
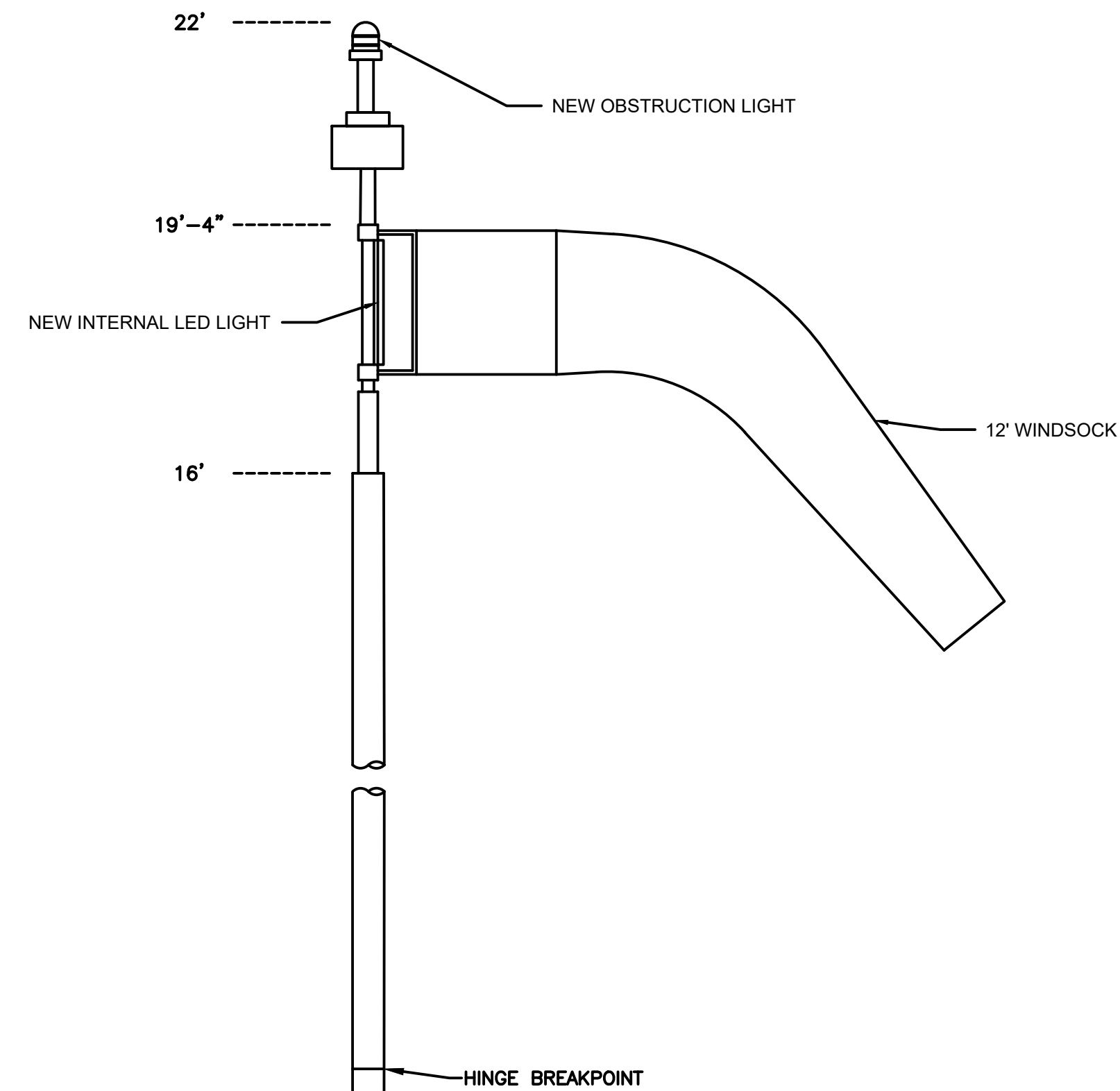
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**AIRFIELD
LIGHTING
DETAILS 6**

Sheet: **E6.06**



1 NEW L-807 PRIMARY RUNWAY WIND CONE ON EXISTING FOUNDATION
SCALE: NTS

1B NEW L-807 PRIMARY RUNWAY WIND CONE ON EXISTING FOUNDATION - PLAN VIEW
SCALE: NTS

GENERAL NOTES

- SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

SHEET NOTES

- PROVIDE NEW 6.6A/6.6A TRANSFORMER TO FEED THE WINDCONE.

REMOVAL NOTES:

- FOR WINDCONE WITH DISCONNECT ON EXISTING PAD, PRIOR TO REMOVAL TURN OFF POWER AT THE VAULT, THEN SHUT OFF EXISTING DISCONNECT.
- DISCONNECT THE GROUND WIRE FROM THE BASE.
- UNBOLT THE SUPPORT POLE FROM THE BASE AND REMOVE.
- REMOVE SECONDARY WIRES AND CAP CONDUIT.
- CLEAN ANCHOR BOLTS WITH A WIRE BRUSH AND COAT WITH AN ANTI-SEIZE COMPOUND FOR PROTECTION.

STRUCTURAL NOTES:

- STRUCTURAL CONCRETE FOR ALL STRUCTURES SHALL CONFORM WITH STANDARD SPECIFICATIONS STRUCTURAL CONCRETE (F'c = 4,000 PSI) UNLESS NOTED OTHERWISE. SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705.3 OF THE 2017 LOS ANGELES CITY BUILDING CODE.
- L BOLTS SHALL BE GALVANIZED 3/4" -10 UNC (19MM) F1554 GRADE 36 STEEL.
- WASHERS SHALL BE GALVANIZED F436 STEEL.
- NUTS SHALL BE GALVANIZED A563 STEEL.
- CHAMFER ALL EXPOSED EDGES OF CONCRETE TO 3/4" .
- VERIFY ANCHOR PLATE AND DEPENDENT DIMENSIONS CONFORM TO MANUFACTURER SPECIFICATION BEFORE FABRICATING.
- PURSUANT TO SECTION 4216 OF CALIFORNIA GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION YOU MUST CONTACT DIGALERT. IF UTILITY CONFLICTS ARISE, LOCATION MAY BE ADJUSTED TO +/- 2 FEET. ANY LARGER DEVIATIONS SHALL REQUIRE APPROVAL.
- FG IS TYPICALLY EARTH BUT OTHER MATERIALS MAY BE ENCOUNTERED. FG AT LOCATIONS ADJACENT TO FOUNDATIONS SHALL BE RETURNED TO EXISTING CONDITION.
- ALL REINFORCEMENT SHALL BE GRADE 60 STEEL. SPIRAL LAP SPLICES SHALL OVERLAP 1/2 TURNS. END SPIRALS WITH 180 HOOKS 1/2 AND EXTRA TURNS AT TOP AND BOTTOM OF SHAFT.
- WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS) STANDARDS.

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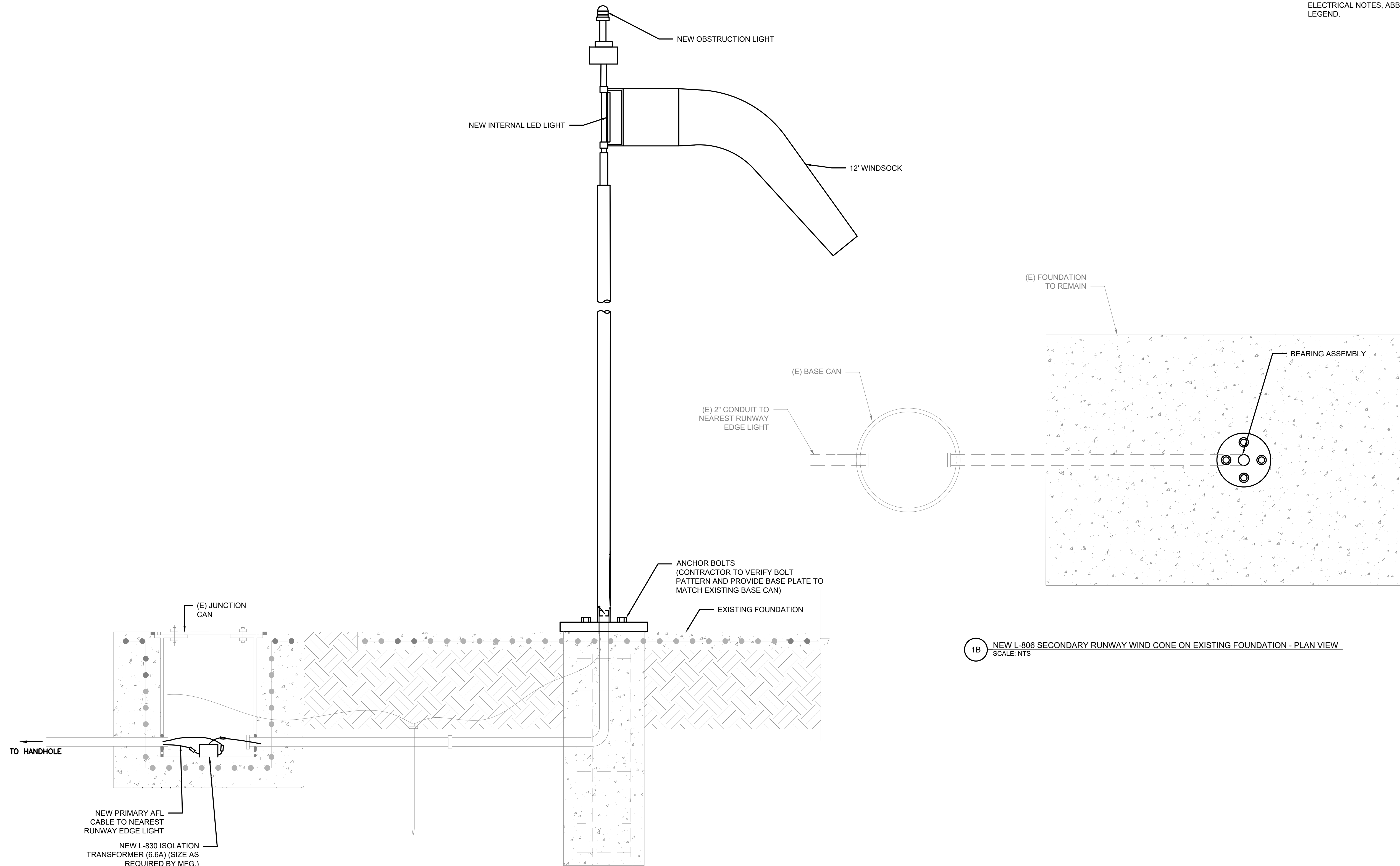
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Approved: DL

**AIRFIELD
LIGHTING
DETAILS 7**

Sheet: **E6.07**

GENERAL NOTES

- SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.



1B NEW L-806 SECONDARY RUNWAY WIND CONE ON EXISTING FOUNDATION - PLAN VIEW
SCALE: NTS

1 NEW L-806 SECONDARY RUNWAY WIND CONE ON EXISTING FOUNDATION
SCALE: NTS

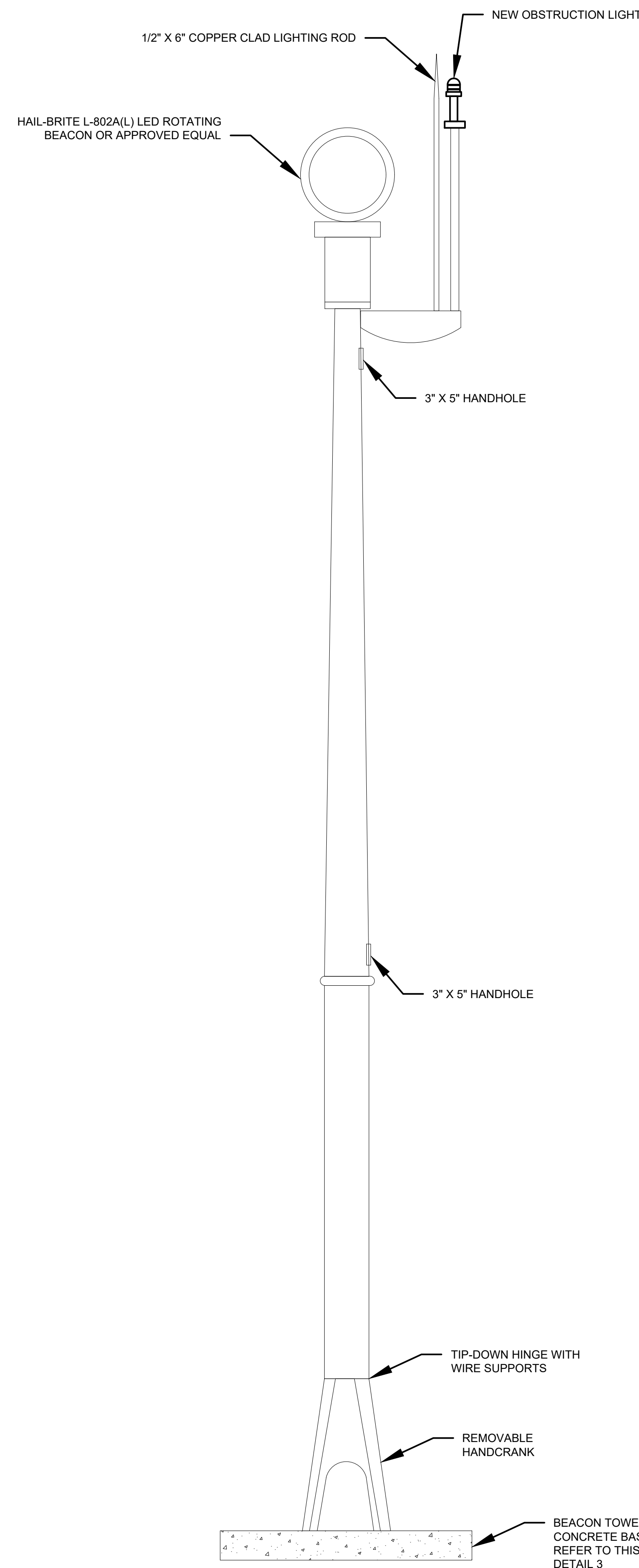
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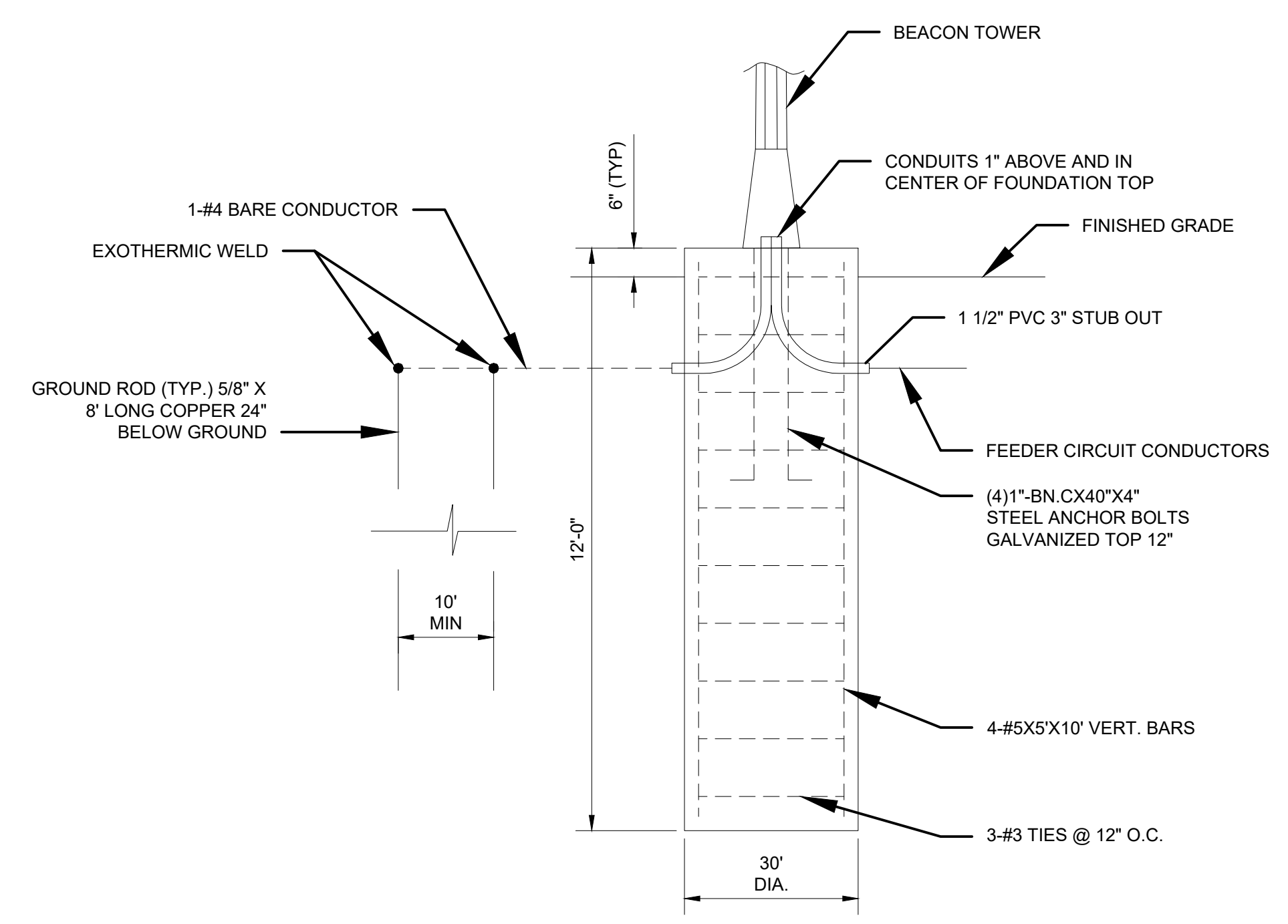
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**AIRFIELD
LIGHTING
DETAILS 8**

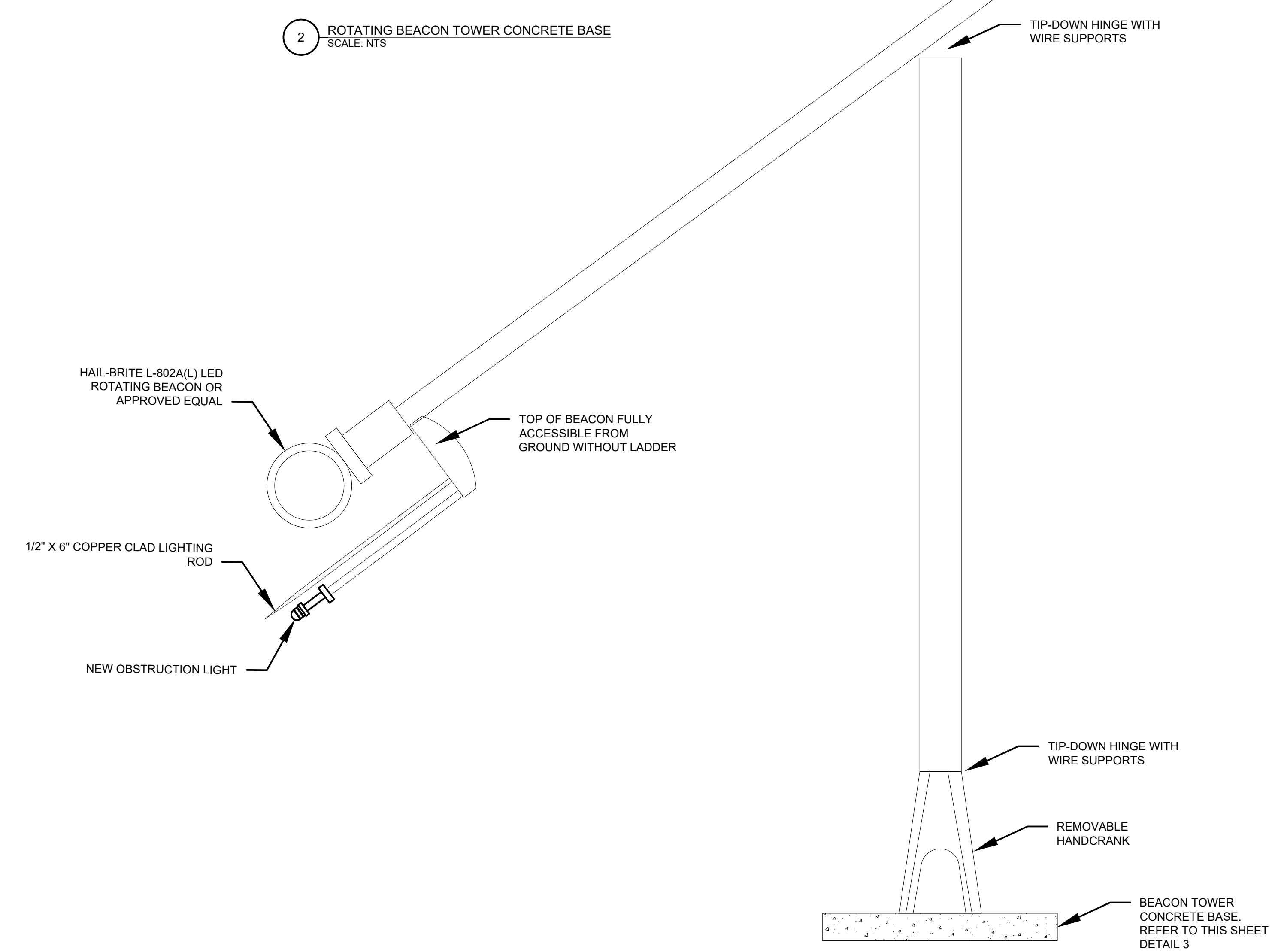
Sheet: **E6.08**



1 BEACON WITH TILT DOWN POLE - FULL HEIGHT
SCALE: NTS



2 ROTATING BEACON TOWER CONCRETE BASE
SCALE: NTS



2 BEACON WITH TILT DOWN POLE - TILT DOWN
SCALE: NTS

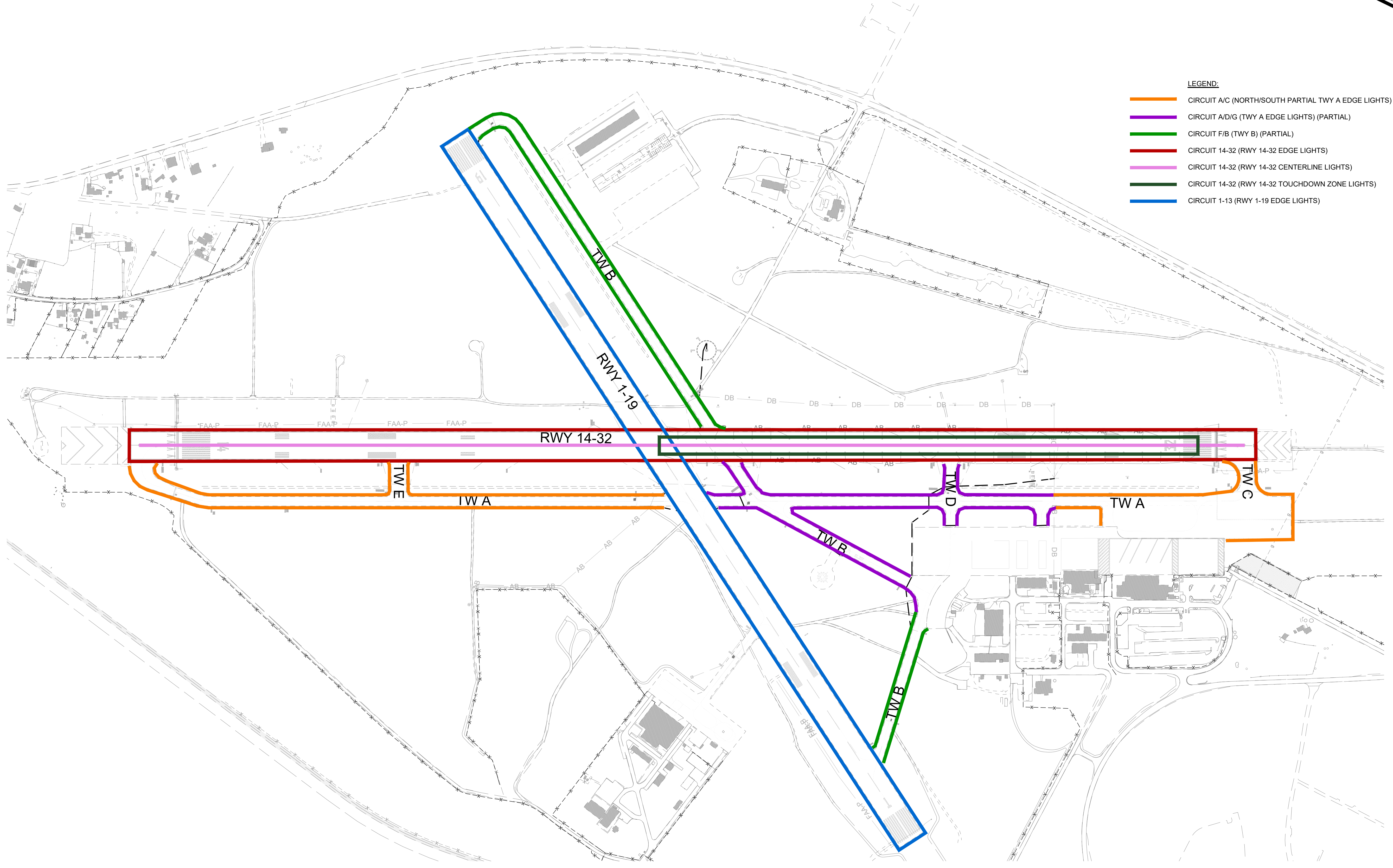
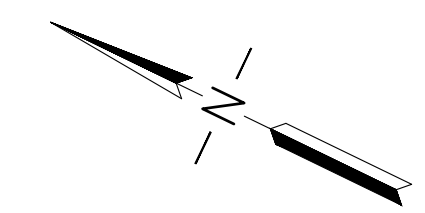
GENERAL NOTES
1. SEE SHEETS E0.01, E1.00, AND E2.00 FOR ELECTRICAL NOTES, ABBREVIATIONS, AND LEGEND.

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Approved: DL

AIRFIELD LIGHTING DETAILS 9



- LEGEND:**
- CIRCUIT A/C (NORTH/SOUTH PARTIAL TWY A EDGE LIGHTS)
 - CIRCUIT A/D/G (TWY A EDGE LIGHTS) (PARTIAL)
 - CIRCUIT F/B (TWY B) (PARTIAL)
 - CIRCUIT 14-32 (RWY 14-32 EDGE LIGHTS)
 - CIRCUIT 14-32 (RWY 14-32 CENTERLINE LIGHTS)
 - CIRCUIT 14-32 (RWY 14-32 TOUCHDOWN ZONE LIGHTS)
 - CIRCUIT 1-13 (RWY 1-19 EDGE LIGHTS)



CALIFORNIA REDWOOD COAST
 HUMBOLDT COUNTY AIRPORT
 MCKINLEYVILLE, CA
 TWY A LIGHTING AND VAULT REHAB
 AIP No. 3-06-0010-053-2022

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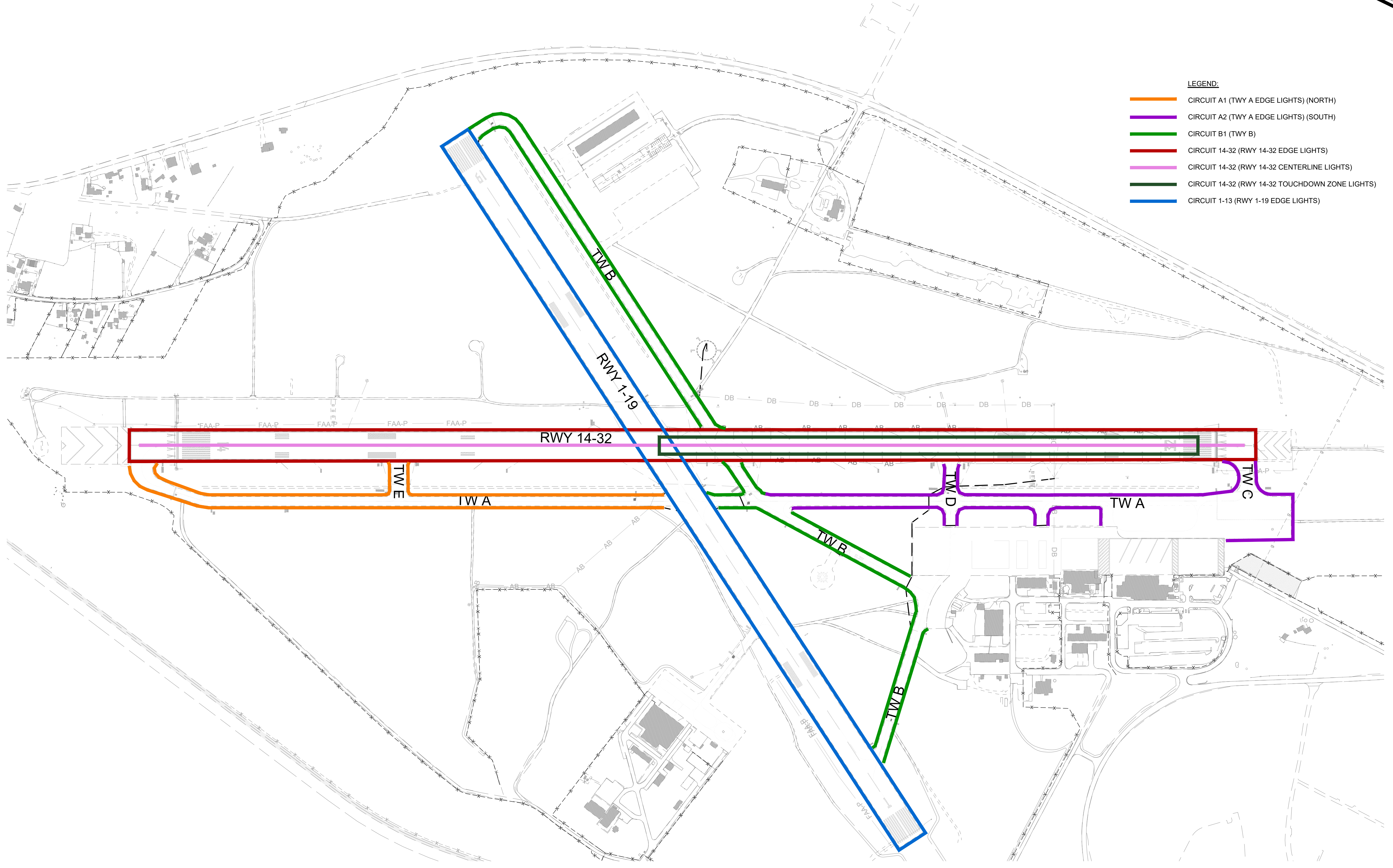
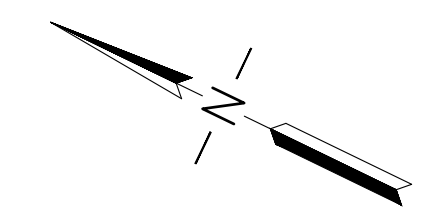
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**EXISTING
 OVERALL
 CIRCUIT MAP**

Sheet: **E7.01**

1 EXISTING OVERALL CIRCUIT MAP
 SCALE: NTS



- LEGEND:**
- CIRCUIT A1 (TWY A EDGE LIGHTS) (NORTH)
 - CIRCUIT A2 (TWY A EDGE LIGHTS) (SOUTH)
 - CIRCUIT B1 (TWY B)
 - CIRCUIT 14-32 (RWY 14-32 EDGE LIGHTS)
 - CIRCUIT 14-32 (RWY 14-32 CENTERLINE LIGHTS)
 - CIRCUIT 14-32 (RWY 14-32 TOUCHDOWN ZONE LIGHTS)
 - CIRCUIT 1-13 (RWY 1-19 EDGE LIGHTS)



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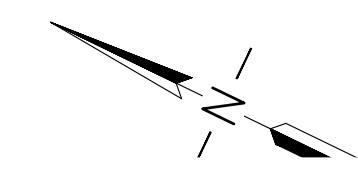
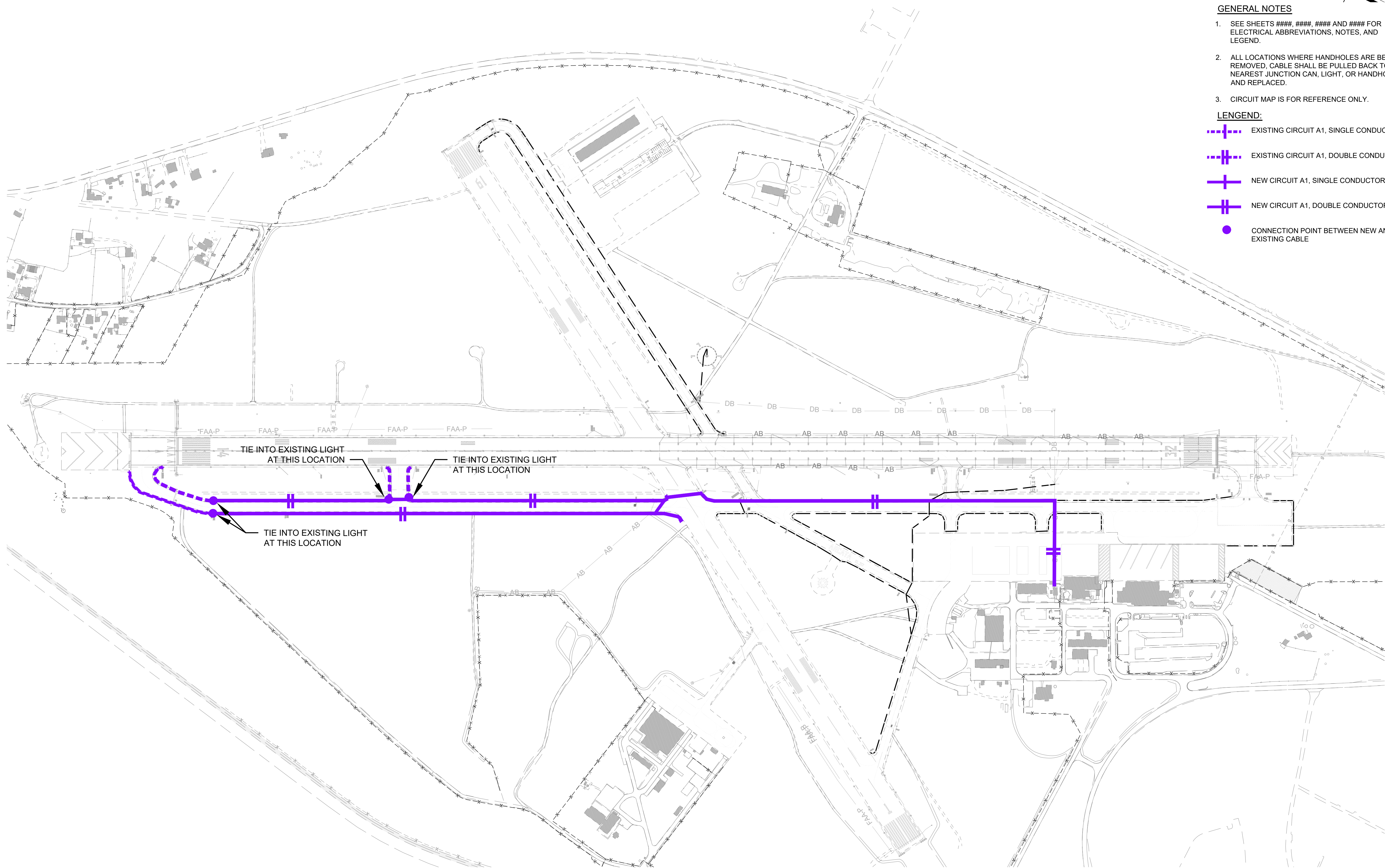
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 Approved: DL

NEW OVERALL CIRCUIT MAP

Sheet: **E7.02**

1 NEW OVERALL CIRCUIT MAP
 SCALE: NTS



GENERAL NOTES

- SEE SHEETS ####, ####, #### AND #### FOR ELECTRICAL ABBREVIATIONS, NOTES, AND LEGEND.
- ALL LOCATIONS WHERE HANDHOLES ARE BEING REMOVED, CABLE SHALL BE PULLED BACK TO NEAREST JUNCTION CAN, LIGHT, OR HANDHOLE AND REPLACED.
- CIRCUIT MAP IS FOR REFERENCE ONLY.

LEGEND:

- EXISTING CIRCUIT A1, SINGLE CONDUCTOR
- EXISTING CIRCUIT A1, DOUBLE CONDUCTORS
- NEW CIRCUIT A1, SINGLE CONDUCTOR
- NEW CIRCUIT A1, DOUBLE CONDUCTORS
- CONNECTION POINT BETWEEN NEW AND EXISTING CABLE



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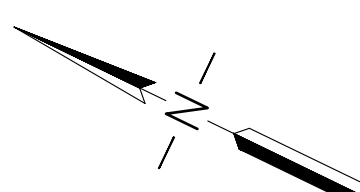
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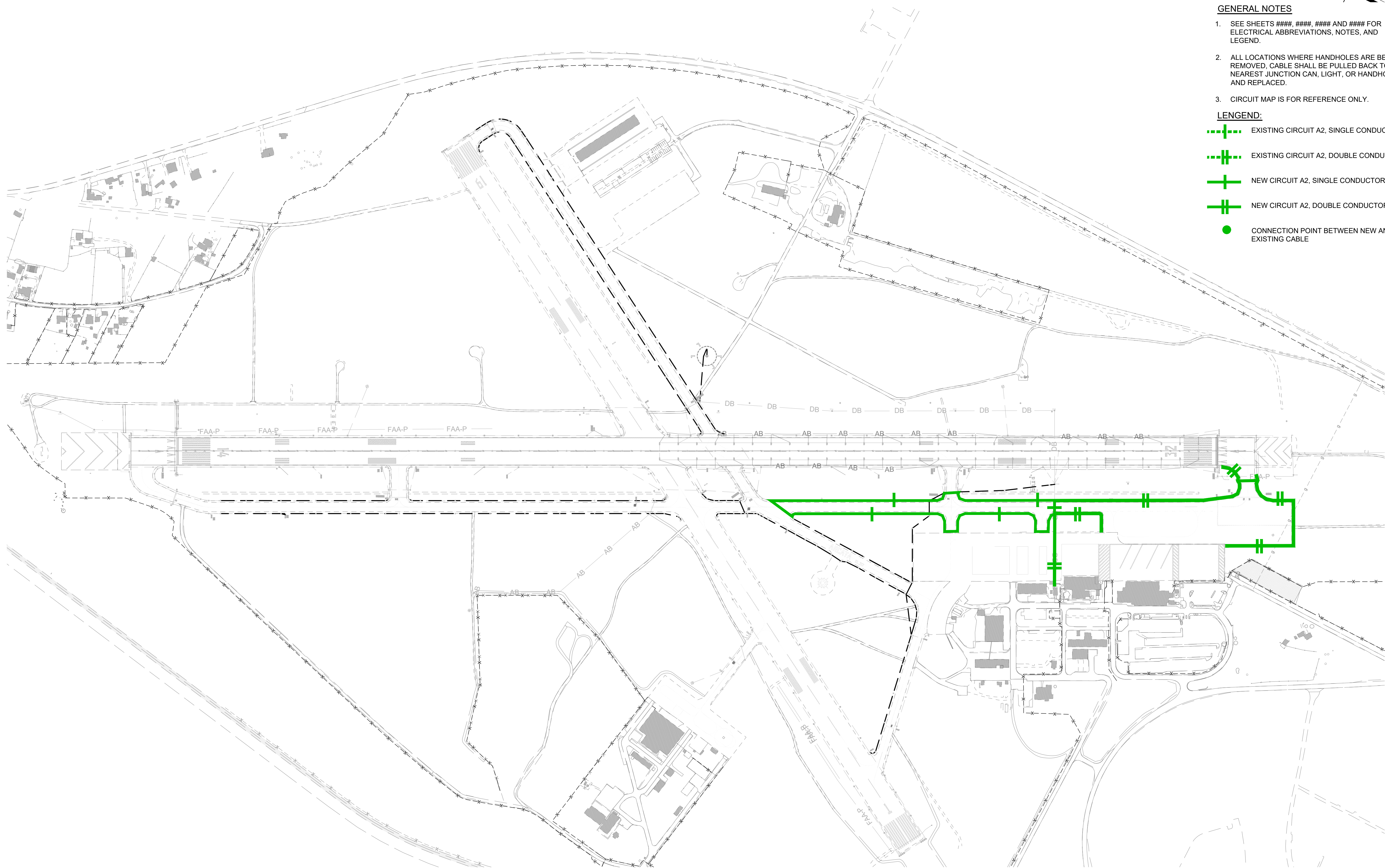
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 Approved: DL

**NEW CIRCUIT A1
 (TWY A EDGE LIGHTS NORTH)**

Sheet: **E7.03**

1 NEW CIRCUIT A1 (TWY A EDGE LIGHTS NORTH SIDE)
 SCALE: NTS





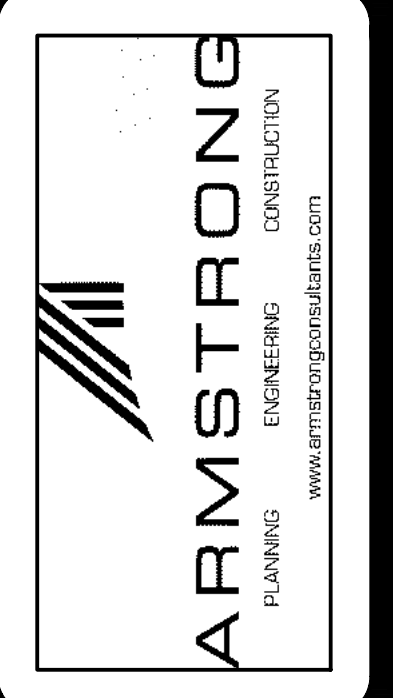
GENERAL NOTES

1. SEE SHEETS #####, #####, ##### AND ##### FOR ELECTRICAL ABBREVIATIONS, NOTES, AND LEGEND.
2. ALL LOCATIONS WHERE HANDHOLES ARE BEING REMOVED, CABLE SHALL BE PULLED BACK TO NEAREST JUNCTION CAN, LIGHT, OR HANDHOLE AND REPLACED.
3. CIRCUIT MAP IS FOR REFERENCE ONLY.

LEGEND:

- +--- EXISTING CIRCUIT A2, SINGLE CONDUCTOR
- ++--- EXISTING CIRCUIT A2, DOUBLE CONDUCTORS
- +--- NEW CIRCUIT A2, SINGLE CONDUCTOR
- ++--- NEW CIRCUIT A2, DOUBLE CONDUCTORS
- CONNECTION POINT BETWEEN NEW AND EXISTING CABLE

1 NEW CIRCUIT A2 (TWY A EDGE LIGHTS SOUTH SIDE)
SCALE: NTS



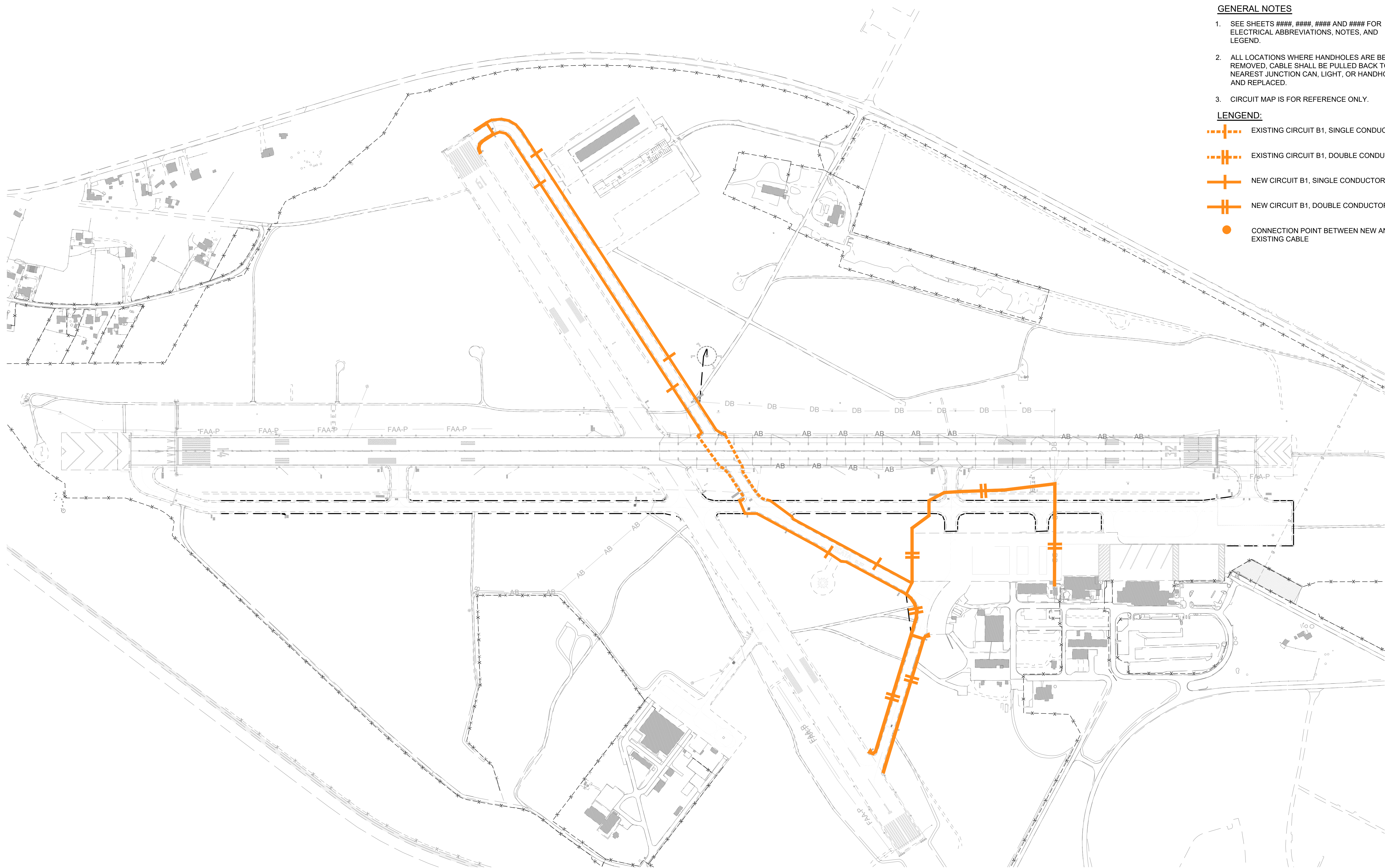
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**NEW CIRCUIT B2
(TWY A EDGE
LIGHTS SOUTH)**



GENERAL NOTES

1. SEE SHEETS #####, #####, ##### AND ##### FOR ELECTRICAL ABBREVIATIONS, NOTES, AND LEGEND.
2. ALL LOCATIONS WHERE HANDHOLES ARE BEING REMOVED, CABLE SHALL BE PULLED BACK TO NEAREST JUNCTION CAN, LIGHT, OR HANDHOLE AND REPLACED.
3. CIRCUIT MAP IS FOR REFERENCE ONLY.

LEGEND:

- +--- EXISTING CIRCUIT B1, SINGLE CONDUCTOR
- ++--- EXISTING CIRCUIT B1, DOUBLE CONDUCTORS
- +--- NEW CIRCUIT B1, SINGLE CONDUCTOR
- ++--- NEW CIRCUIT B1, DOUBLE CONDUCTORS
- CONNECTION POINT BETWEEN NEW AND EXISTING CABLE



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NEW CIRCUIT B1 (TWY B EDGE LIGHTS)

Sheet: **E7.05**

1 NEW CIRCUIT B1 (TWY B EDGE LIGHTS)
 SCALE: NTS

