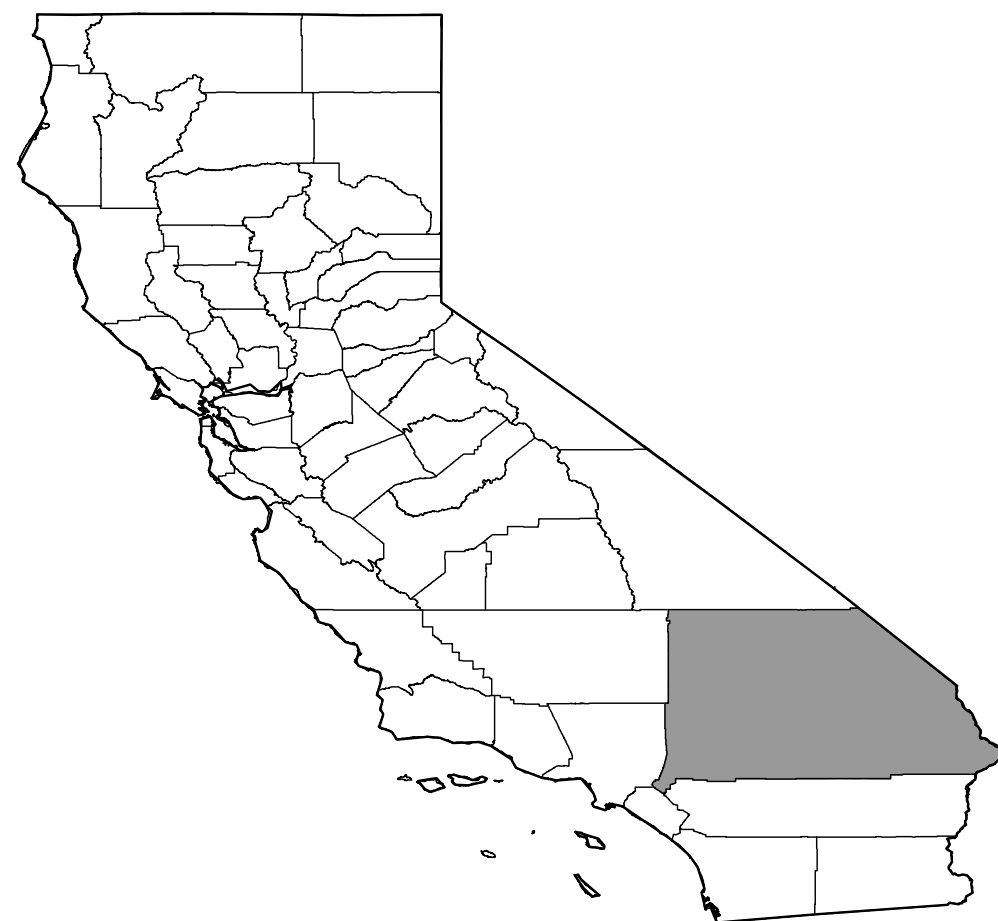
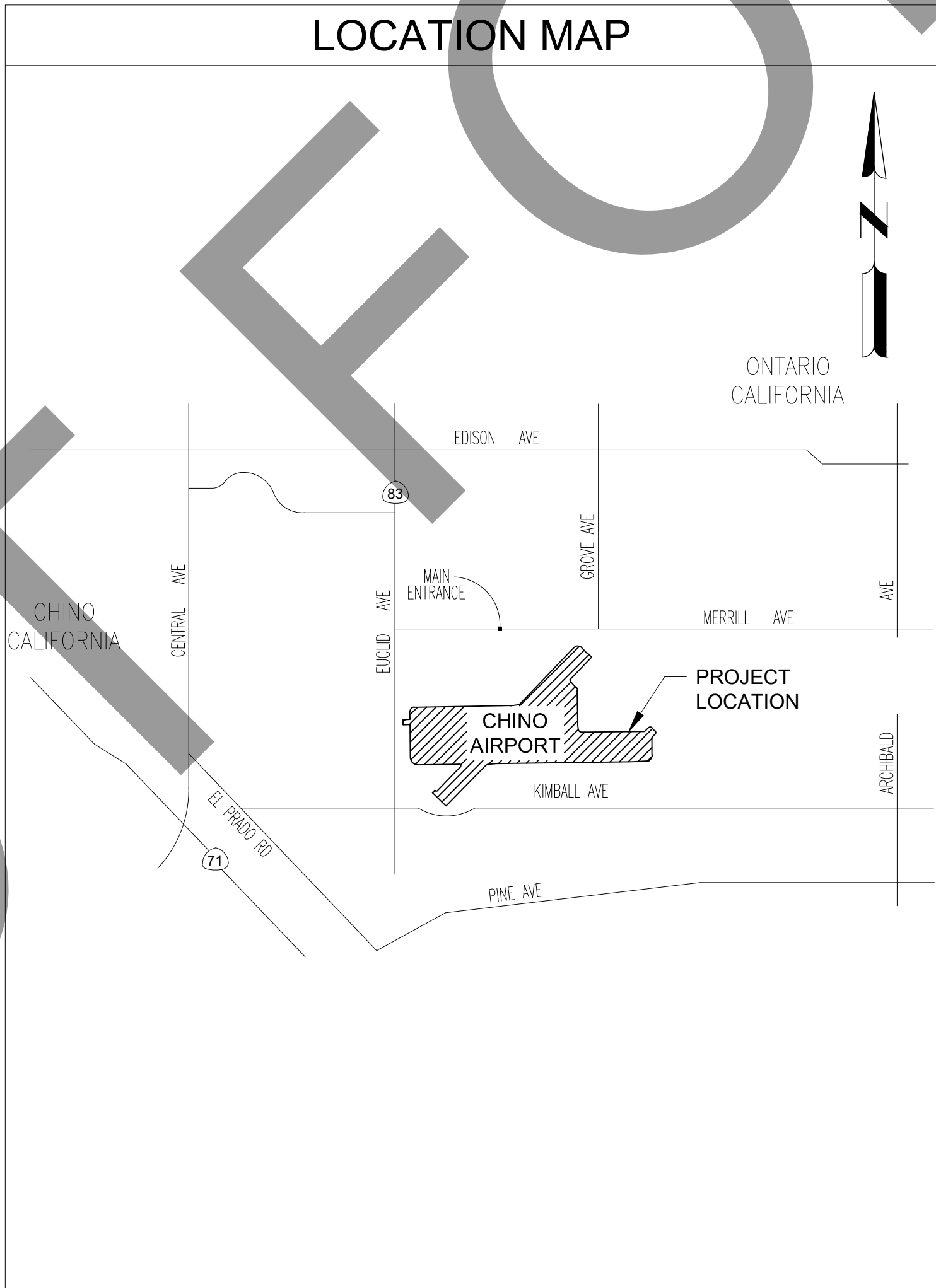
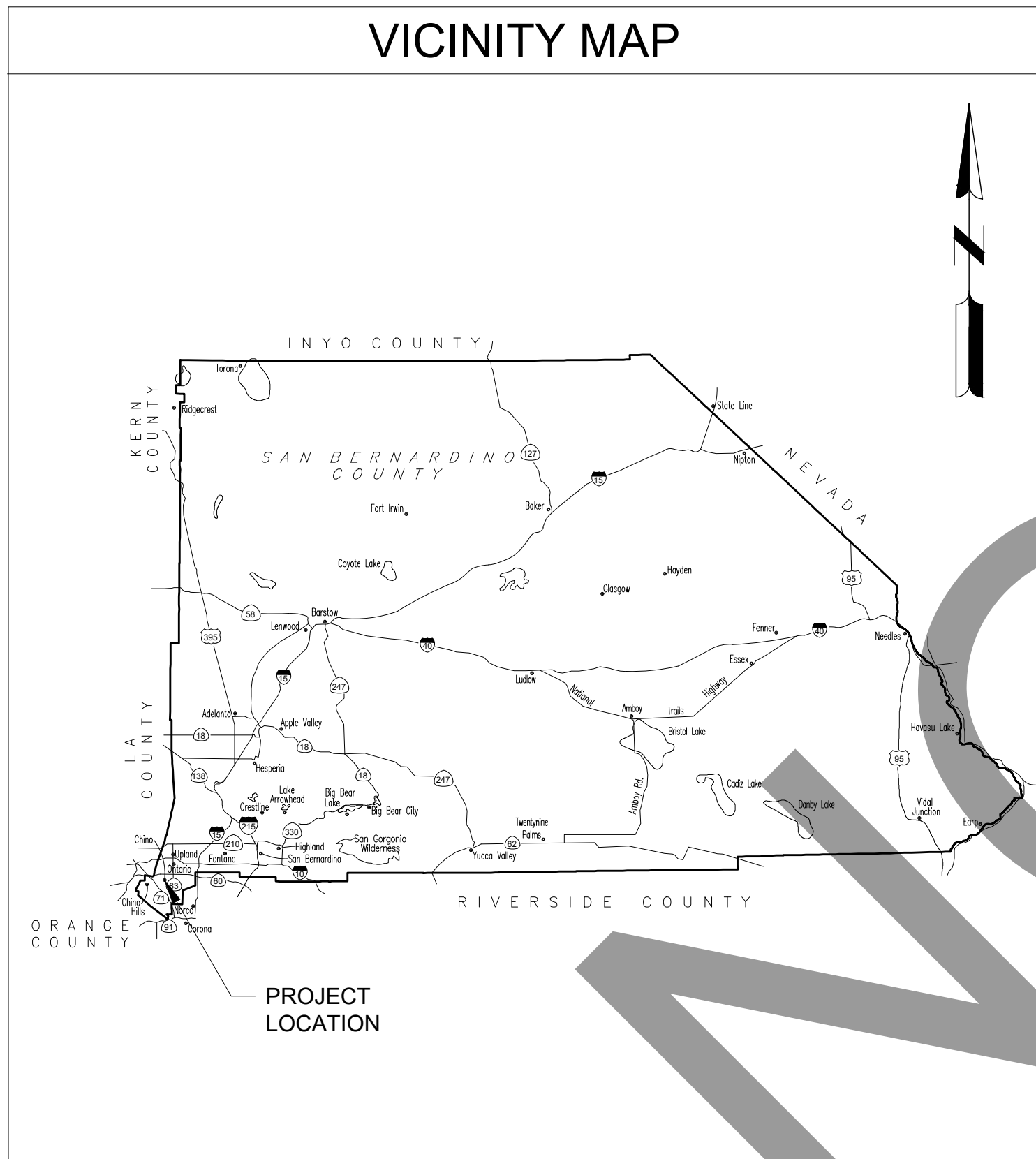


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CHINO AIRPORT  
VAULT UPGRADE PROJECT  
7000 MERRILL AVE  
CHINO, CA 91710  
AIP NO: 3-06-0042-033-2023  
FEBRUARY 2, 2024



SAN BERNARDINO COUNTY



Sheet List Table		
Drawing Number	Sheet Number	Sheet Title
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2	G-002	LEGEND & ABBREVIATIONS
3	G-021	PROJECT LAYOUT PLAN
4	G-101	CONSTRUCTION SAFETY AND PHASING PLAN
5	E-501	VAULT DETAILS
6	E-502	VAULT DETAILS
7	E-503	VAULT SCHEMATIC



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SHEET CONTENTS  
COVER SHEET

SHEET NO. 1 OF 7

G-001

X:\4665437\211181\_01\TECH\CAD\DRAWINGS\SHEETS\G-001 COVER SHEET.DWG  
2/1/2024 4:33:11 PM

EXISTING

LEGEND:

	BASE CAN L-867, WITH LID
	BASE CAN L-868, WITH LID
	RWY C/L BASE
	RLG (ELEVATED BASE MOUNTED)
	RGL (INSET)
	LIRL (ELEVATED BASE MOUNTED)
	LIRL (ELEVATED STAKE MOUNTED)
	LIRL (INSET)
	MIRL (ELEVATED BASE MOUNTED)
	MIRL (ELEVATED STAKE MOUNTED)
	MIRL (INSET)
	HIRL (ELEVATED BASE MOUNTED)
	HIRL (ELEVATED STAKE MOUNTED)
	HIRL (INSET)
	MITL (ELEVATED BASE MOUNTED)
	MITL (ELEVATED STAKE MOUNTED)
	MITL (INSET)
	TW C/L BIDIRECTIONAL
	TW C/L UNIDIRECTIONAL
	AVIATION CONE
	MALS (ELEVATED BASE MOUNTED)
	MALS (INSET)
	MALS WITH SEQUENCE FLASHER (ELEVATED)
	MALS WITH SEQUENCE FLASHER (INSET)
	PAPI
	REIL
	RETROREFLECTOR
	SEQUENCE FLASHER
	TDZ
	VASI
	ANTENNA
	CABLE MARKER
	DUCT MARKER
	GROUNDING LUG
	TIEDOWN
	WINDCONE
	DISTANCE REMAINING SIGN
	GUIDANCE SIGN
	CONDUIT LABEL (CABLE QTY & CIRCUIT NAME)
	AIRFIELD RATED MANHOLE
	NON-AIRCRAFT RATED MANHOLE
	AIRFIELD RATED HANDHOLE
	NON-AIRCRAFT RATED HANDHOLE
	POLYMER CONCRETE HANDHOLE
	LIGHT POLE
	FLOOD/AREA LIGHT
	WATER VALVE

PROPOSED

LEGEND:

	BASE CAN L-867, WITH LID
	BASE CAN L-868, WITH LID
	RWY C/L BASE
	RLG (ELEVATED BASE MOUNTED)
	RGL (INSET)
	LIRL (ELEVATED BASE MOUNTED)
	LIRL (ELEVATED STAKE MOUNTED)
	LIRL (INSET)
	MIRL (ELEVATED BASE MOUNTED)
	MIRL (ELEVATED STAKE MOUNTED)
	MIRL (INSET)
	HIRL (ELEVATED BASE MOUNTED)
	HIRL (ELEVATED STAKE MOUNTED)
	HIRL (INSET)
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	MITL (ELEVATED STAKE MOUNTED)
	MITL (INSET)
	TW C/L BIDIRECTIONAL
	TW C/L UNIDIRECTIONAL
	AVIATION CONE
	MALS (ELEVATED BASE MOUNTED)
	MALS (INSET)
	MALS WITH SEQUENCE FLASHER (ELEVATED)
	MALS WITH SEQUENCE FLASHER (INSET)
	PAPI
	REIL
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	SEQUENCE FLASHER
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	VASI
	ANTENNA
	CABLE MARKER
	DUCT MARKER
	GROUNDING LUG
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	DISTANCE REMAINING SIGN
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	CONDUIT LABEL (CABLE QTY & CIRCUIT NAME)
	AIRFIELD RATED MANHOLE
	NON-AIRCRAFT RATED MANHOLE
	AIRFIELD RATED HANDHOLE
	NON-AIRCRAFT RATED HANDHOLE
	POLYMER CONCRETE HANDHOLE
	LIGHT POLE
	FLOOD/AREA LIGHT

LEGEND:

	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC PEDESTAL BOX
	ELECTRIC TRANSFORMER BOX
	ELECTRIC SERVICE PANEL
	ELECTRIC HANDHOLE (PULLBOX)
	GUY ANCHOR
	LIGHT BOLLARD
	FLOODLIGHT POLE
	LIGHT POLE (SINGLE)
	LIGHT POLE (DOUBLE)
	MARKER, CABLE
	MARKER, DUCT
	POWER POLE
	POWER POLE, DOUBLE
	POWER POLE WITH LIGHT
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PEDESTAL BOX
	CTV PEDESTAL BOX
	PROPOSED DUCTBANK
	EXISTING DUCTBANK
	REMOVE DUCTBANK

LINES

LEGEND:

	ACL
	AIRCRAFT PARKING LIMIT
	AIRPORT OPERATION AREA
	APPROACH SURFACE
	BUILDING RESTRICTION LINE
	DEPARTURE RUNWAY PROTECTION ZONE
	DEPARTURE SURFACE
	FAA
	GLIDE SLOPE CRITICAL AREA
	GROUND CONTROL APPROACH
	GROUNDING WIRE
	OBJECT FREE AREA
	OBJECT FREE ZONE
	RUNWAY GUARD LIGHTS
	RUNWAY OBJECT FREE AREA
	RUNWAY PROTECTION ZONE
	RUNWAY RESTRICTED AREA
	RUNWAY SURFACE APPROACH
	RUNWAY WORK AREA
	SECURITY IDENTIFICATION DISPLAY AREA
	TAXIWAY OBJECT FREE AREA
	TAXIWAY SAFETY AREA
	RUNWAY CIRCUIT
	TAXIWAY CIRCUIT
	PAPI CIRCUIT
	VASI CIRCUIT
	WC CIRCUIT
	APPROACH LIGHTS CIRCUIT
	COUNTERPOISE
	ELECTRIC, OVERHEAD
	ELECTRIC CABLE, UNDERGROUND
	ELECTRIC CONDUIT, UNDERGROUND
	FIBER OPTIC CABLE
	SIGNAL CABLE, UNDERGROUND
	TELEPHONE, OVERHEAD
	TELEPHONE, UNDERGROUND
	WATER
	SANITARY SEWER
	STORM DRAIN / CULVERT
	NATURAL GAS

ABBREVIATIONS

AB	AGGREGATE BASE	FL	FLOW LINE	PVC	POINT OF VERTICAL CURVE
AC	ASPHALT CONCRETE	FPS	FEET PER SECOND	PVC	POLYVINYL CHLORIDE
ALT	ALTERNATE	FT	FEET	PVI	POINT OF VERTICAL INTERSECTION
AOA	AIRCRAFT OPERATIONS AREA	G	GAS LINE	PVT	POINT OF VERTICAL TANGENCY
APCH	APPROACH	GAL	GALLON	Q	RATE OF FLOW
APPROX	APPROXIMATE	GALV	GALVANIZED	QTY	QUANTITY
ASB	AGGREGATE SUB-BASE	GB	GRADE BREAK	R	RADIUS
AR	ACCESS ROAD	GND	GROUND	R&R	REMOVE AND REPLACE
ATCT	AIR TRAFFIC CONTROL TOWER	GPM	GALLONS PER MINUTE	RC	RELATIVE COMPACTION
AWG	AMERICAN WIRE GAUGE	GS	GROUND SHOT	RCP	REINFORCED CONCRETE PIPE
BC	BEGINNING OF CURVE	H	HEIGHT	REQ	REQUIRED
BIT	BITUMINOUS	HDPE	HIGH DENSITY POLYETHYLENE	ROW	RIGHT OF WAY
BLDG	BUILDING	HIRL	HIGH INTENSITY RUNWAY LIGHT	RWA	RUNWAY WORK RESTRICTED AREA
DM	BENCHMARK	HIR,THL	HIGH INTENSITY THRESHOLD LIGHT	RWY	RUNWAY
BOT	BOTTOM	HORIZ	HORIZONTAL	S	SANITARY LINE
BVC	BEGINNING OF VERTICAL CURVE	HP	HIGH POINT	SF	SQUARE FOOT
C-C	CENTER TO CENTER	HW	HEADWALL	SG	STRAIGHT GRADE
CB	CATCH BASIN	HWL	HIGH WATER LEVEL	SH	SHOULDER
CIPCP	CAST IN-PLACE CONCRETE PIPE	HWY	HIGHWAY	SIDA	SECURITY IDENTIFICATION DISPLAY AREA
CJ	CONSTRUCTION JOINT	IE	INVERT ELEVATION	SMGS	SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM
CFS	CUBIC FEET PER SECOND	IN	INCHES	SS	STAINLESS STEEL
CL	CENTERLINE	L	LENGTH	ST	STORM LINE
CLF	CHAINLINK FENCE	LBS	POUNDS	STA	STATION
CLR	CLEAR	LF	LINEAL FEET	STD	STANDARD
CMP	CORRUGATED METAL PIPE	LWL	LOW WATER LEVEL	STL	STEEL
CO	CLEANOUT	MAX	MAXIMUM	T	TELEPHONE LINE
CONC	CONCRETE	MID	MID POINT	TC	TOP OF CURB
CONT	CONTINUOUS	MIN	MINIMUM	TG	TOP OF GRATE
CRGO	CARGO	MIRL	MEDIUM INTENSITY RUNWAY LIGHT	T/L	TAXILINE
CP	CONTROL POINT	MITL	MEDIUM INTENSITY TAXIWAY LIGHT	TOE	TOE OF BANK
CTB	CEMENT TREATED BASE	MPH	MILES PER HOUR	TOP	TOP OF BANK
DB	DIRECT BURIAL	(N)	NEW	TWY	TAXIWAY
DEG	DEGREE	NO. OR #	NUMBER	TYP	TYPICAL
DI	DROP INLET	NOTMA	NOTICE TO AIRMAN	UD	UNDERDRAIN
DIA	DIAMETER	NTS	NOT TO SCALE	UG	UNDERGROUND
DIM	DIMENSION	OC	ON CENTER	UON	UNLESS OTHERWISE NOTED
DIP	DUCTILE IRON PIPE	OH	OVERHEAD	V	VELOCITY
DP	DEPTH	OWS	OIL WATER SEPERATOR	VC	VERTICAL CURVE
(E)	EXISTING	PB	PULL BOX	VERT	VERTICAL
E	ELECTRICAL LINE	PC	POINT OF CURVATURE	VG	VALLEY GUTTER
EC	END OF CURVE	PCC	PORTLAND CEMENT CONCRETE	VIF	VERIFY IN FIELD
EG	EXISTING GRADE	PCF	POUNDS PER CUBIC FOOT	W	WATER LINE
ELEV	ELEVATION	PERF	PERFORATED	W/	WITH
EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION	W/O	WITHOUT
EVC	END OF VERTICAL CURVE	POB	POINT OF BEGINNING	WSE	WATER SURFACE ELEVATION
FAA	FEDERAL AVIATION ADMINISTRATION	POC	POINT OF CURVE	WSP	WELDED STEEL PIPE
FBO	FIXED BASE OPERATOR	POE	POINT OF ENDING	WV	WATER VALVE
FF	FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH	WWM	WELDED WIRE MESH
FG	FINISHED GRADE	PSF	POUNDS PER SQUARE FOOT		
FH	FIRE HYDRANT	PT	POINT OF TANGENCY		

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VAULT UPGRADE PROJECT

7000 MERRILL AVE  
CHINO, CA 91710

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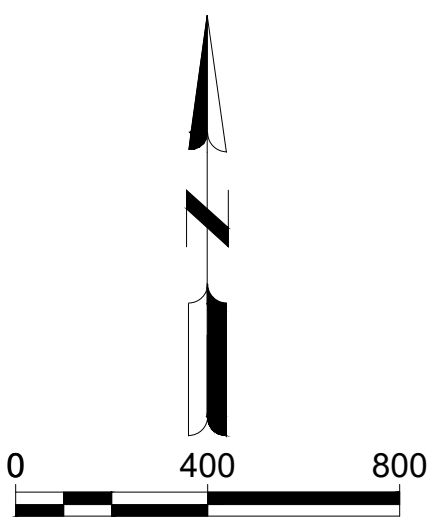
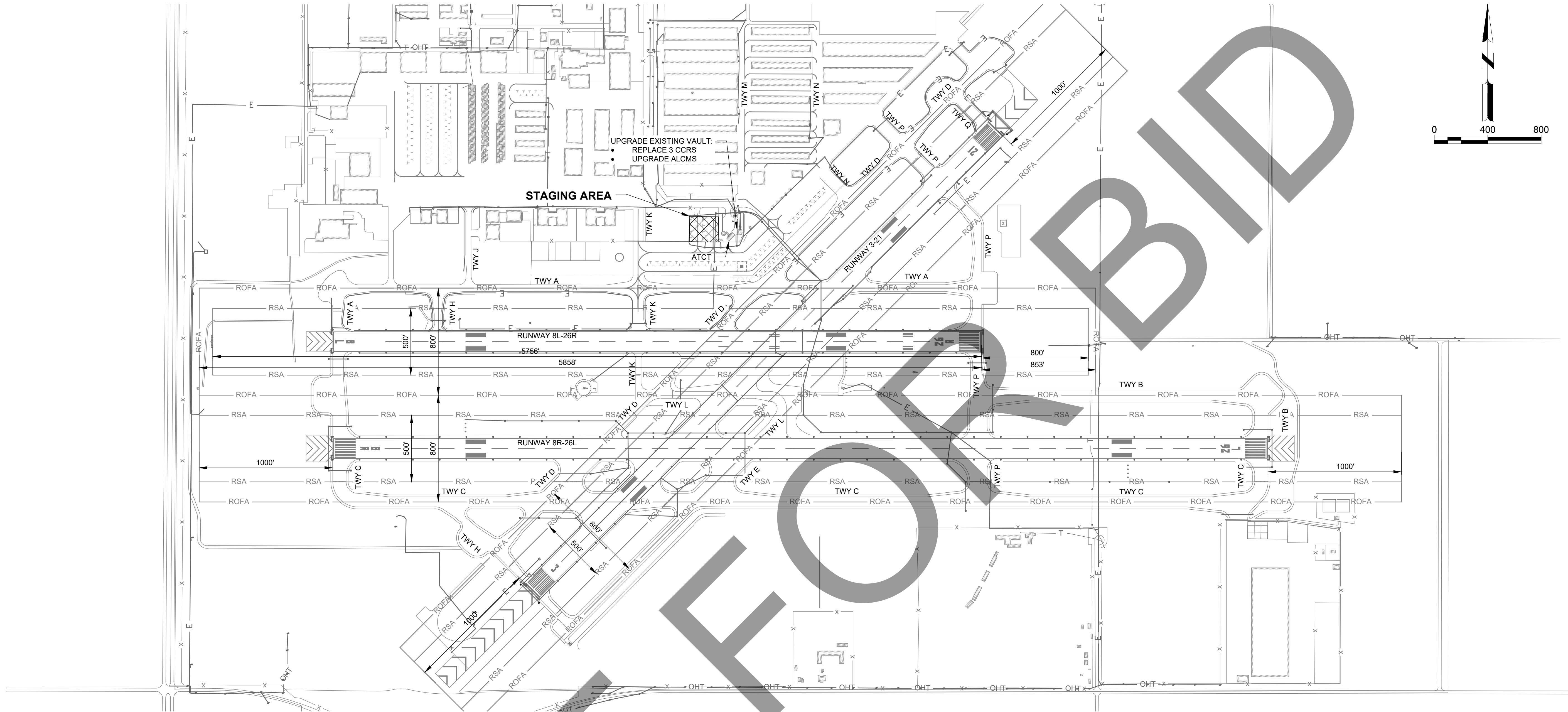
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LEGEND &  
ABBREVIATIONS

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G-002



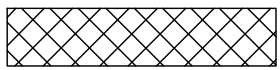
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SCOPE OF WORK:

- VAULT UPGRADE (BASE BID):
1. REMOVE EXISTING CCRS.
  2. INSTALL NEW CCRS.
  3. UPGRADE ALCMS.

LEGEND:



STAGING AREA

GENERAL NOTES

1. SEE SHEET G-081 FOR CONSTRUCTION PHASING, DETAILS, NOTES, CONSTRUCTION ACCESS, AND HAUL ROUTES.
2. SEE SHEETS E-501 THROUGH E-502 FOR VAULT DETAILS.
3. CONTRACTOR SHALL PROTECT EXISTING UTILITIES TO REMAIN THROUGHOUT CONSTRUCTION.
4. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

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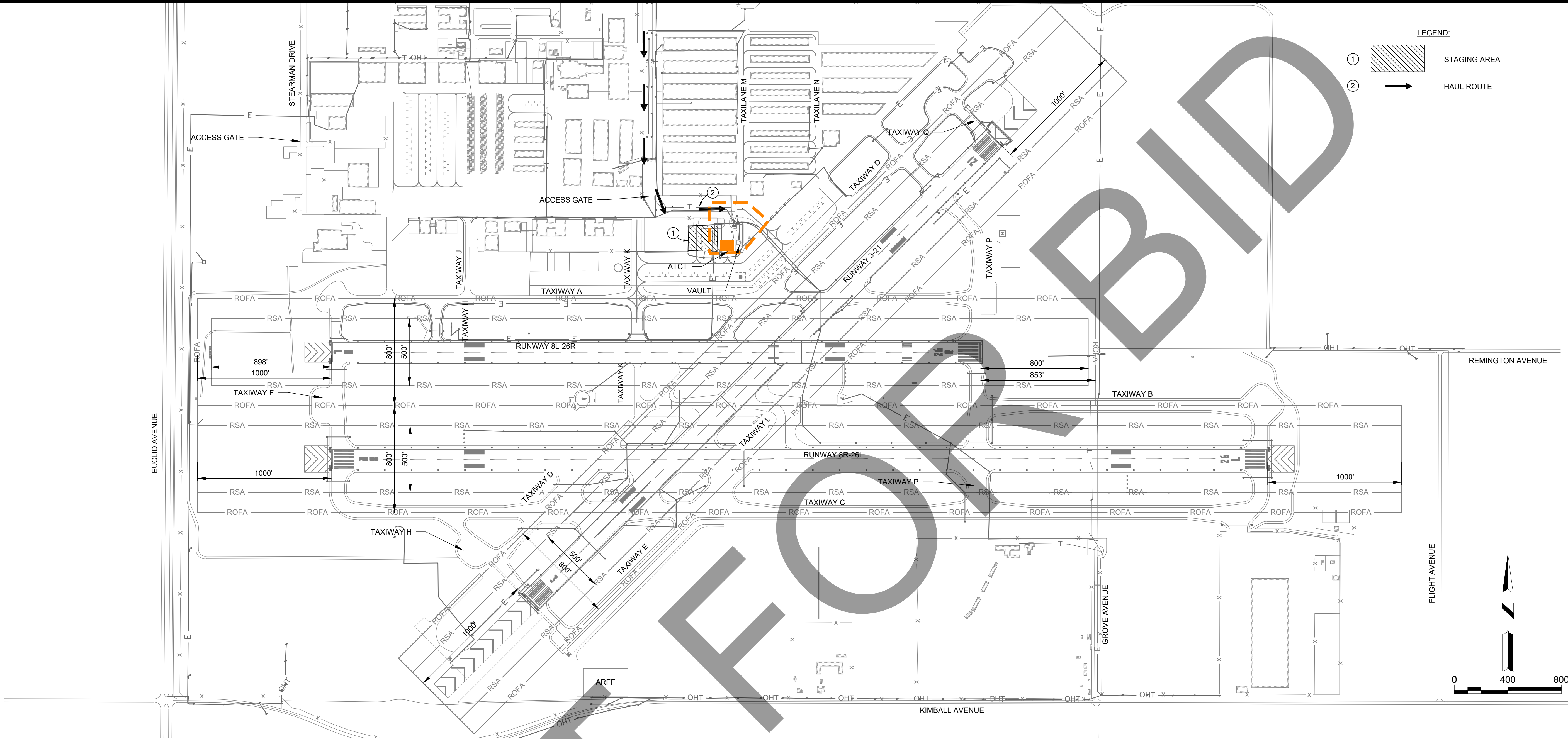
SHEET CONTENTS  
PROJECT LAYOUT  
PLAN

SHEET NO. 3 OF 7

G-021



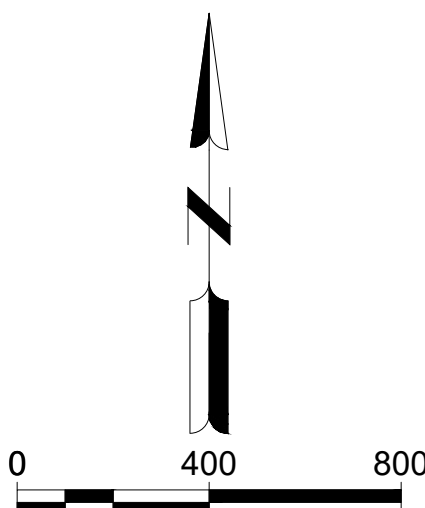
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LEGEND:

① [Hatched Box] STAGING AREA

② [Arrow] HAUL ROUTE



PHASE	WORK AREA	WORK HOURS	WORK	PAVEMENT CLOSURES FOR PHASE	OPERATIONAL THRU TRAFFIC PER WORK AREA	CALENDAR DAYS	WORK AREA NOTES
1	A	M-F 07:00 - 17:00	• CABLE & CONDUIT INSTALLATION BACK TO VAULT ROOM	NONE	NONE	8 DAYS	

WORK AREA LEGEND:

[Orange Box] WORK AREA A

GENERAL PHASING NOTES:

- ALL PAVEMENT USED FOR HAULING SHALL BE SWEEP/VACUUMED BY THE CONTRACTOR PRIOR TO OPENING TO TRAFFIC. AREAS TO BE OPENED SHALL BE CLEANED AND READY FOR INSPECTION BY AIRPORT OPERATIONS STAFF 30 MINUTES PRIOR TO PAVEMENT OPENING.
- MARKINGS DAMAGED BY HAULING SHALL BE PRESSURE WASHED AT NO ADDITIONAL COST AND A NEW COAT OF PAINT WITH BEADS APPLIED AT CONTRACT RATE.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR WRITTEN NOTIFICATION TO THE AIRPORT PRIOR TO CLOSING THE WORK AREA.

NOTE: PRINT IN COLOR

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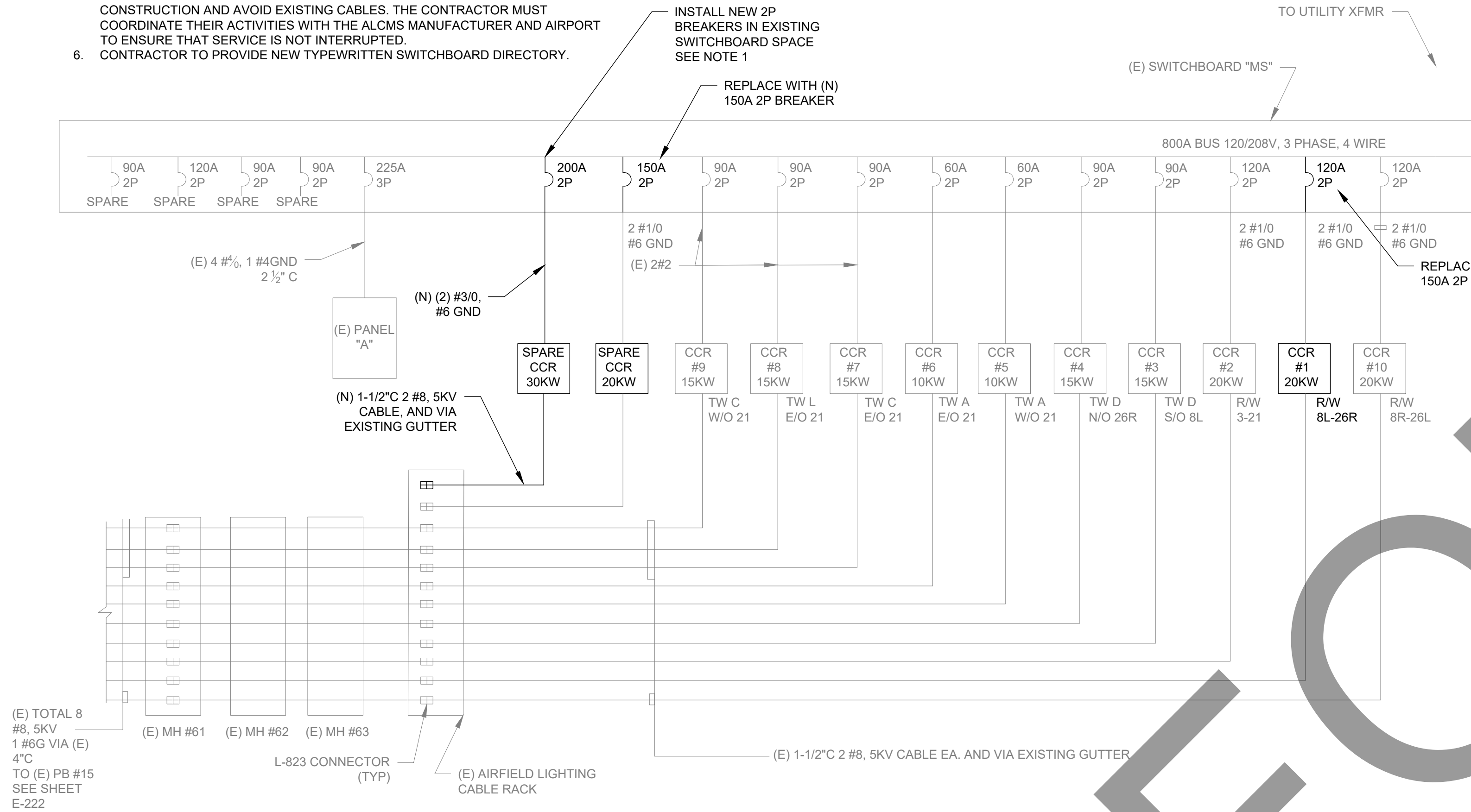
SHEET CONTENTS  
CONSTRUCTION  
SAFETY AND PHASING  
PLAN

SHEET NO. # OF 7

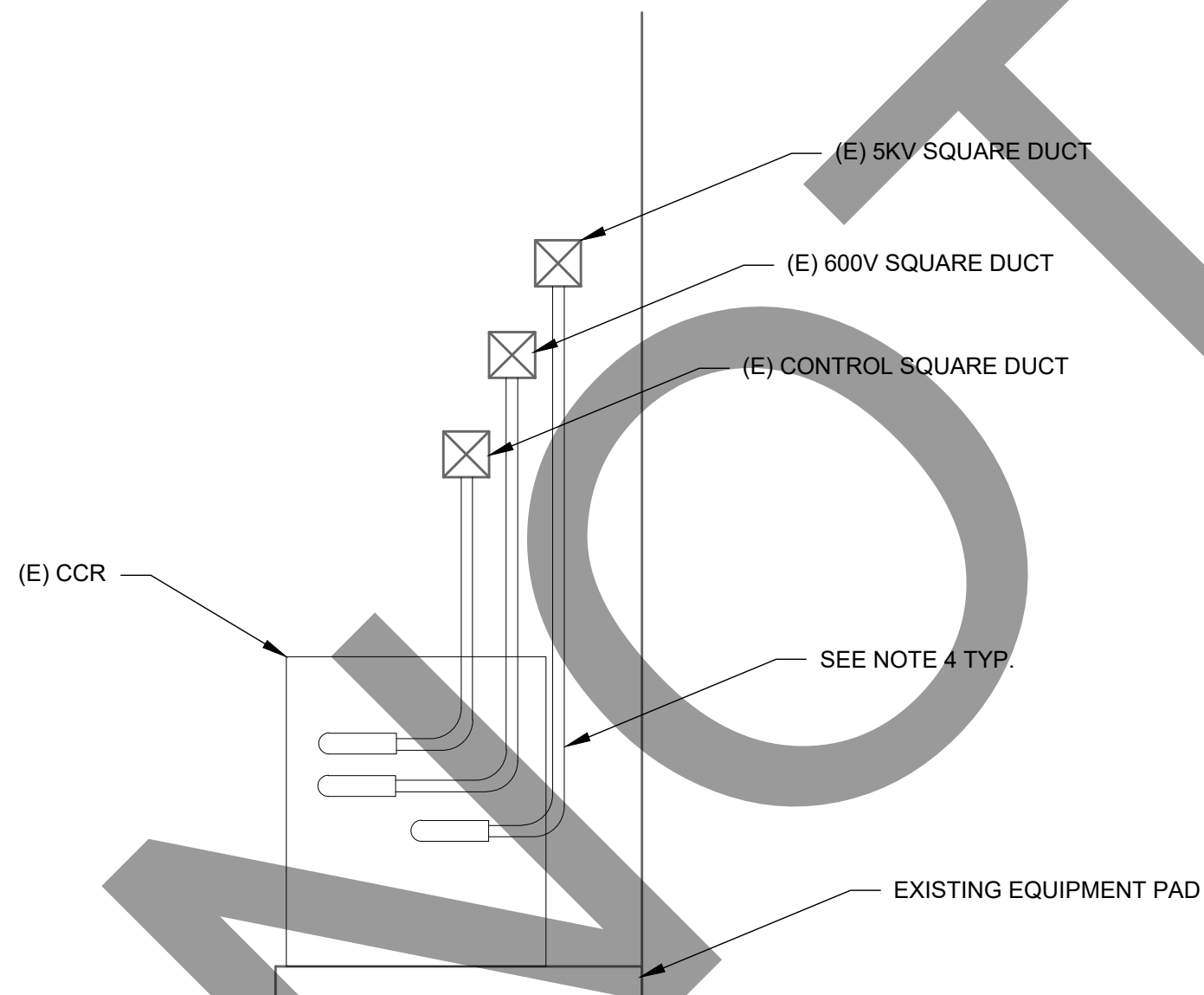
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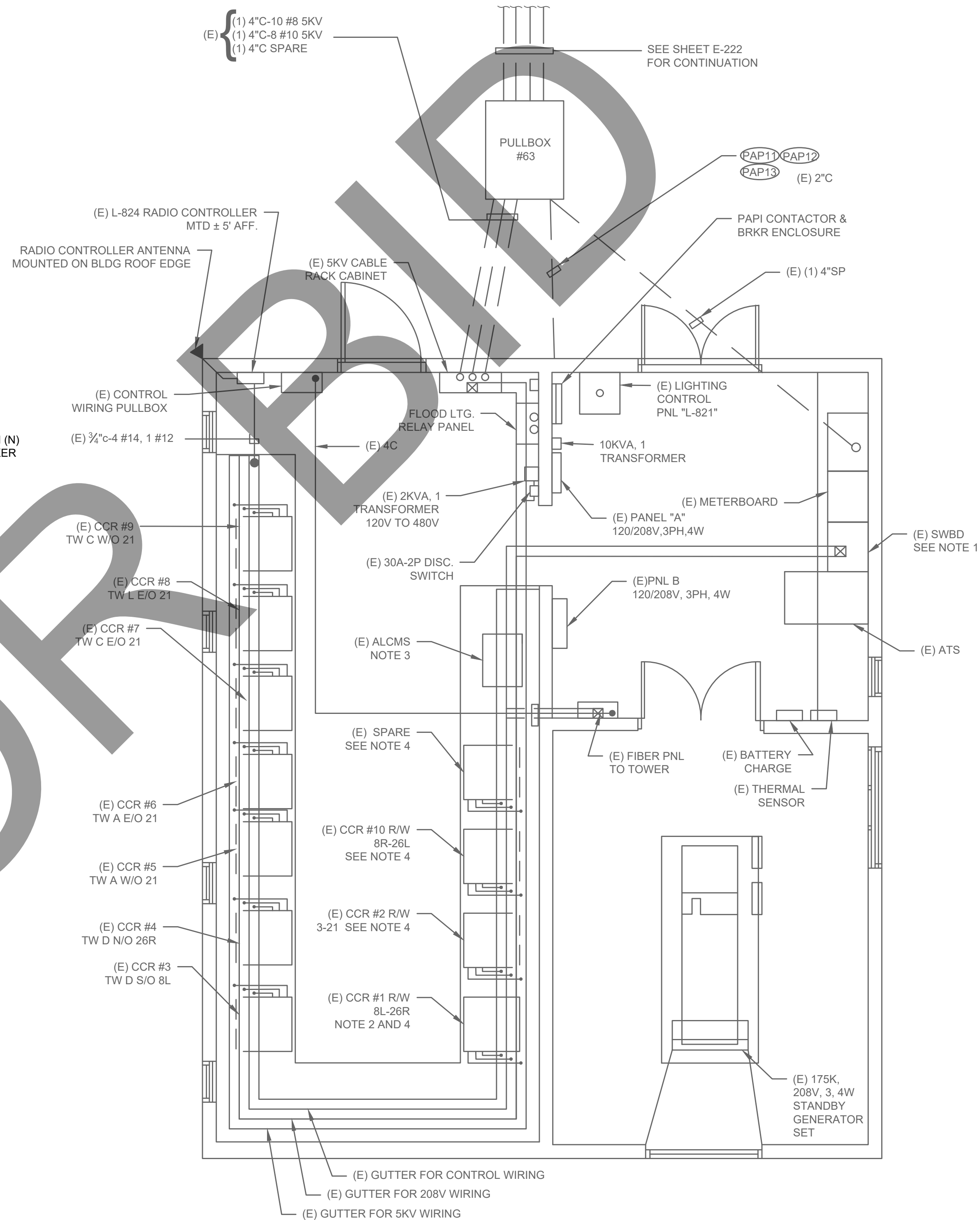
- NOTES:
1. INSTALL NEW 2P BREAKERS AS INDICATED IN EXISTING SWITCH BOARD. CONTRACTOR TO VERIFY EXISTING MAKE AND MODEL OF SWITCHBOARD.
  2. EXISTING CCR IS NONE FUNCTIONAL AND REQUIRES REPLACEMENT. RUNWAY 8L-26R CCR TO BE REMOVED. SEE E-502 FOR NEW.
  3. EXISTING ALCMS TO BE UPGRADED BY MANUFACTURER. ALCMS MANUFACTURER TO PROVIDE EQUIPMENT AND PROGRAMMING. CONTRACTOR TO INSTALL ALL CONDUIT, CONDUCTORS AND TERMINATIONS BETWEEN NEW CCR'S AS REQUIRED FOR INSTALLATION OF NEW ALCMS SYSTEM. EXISTING CONDUITS AND CONDUCTORS BETWEEN THE ALCMS VAULT AND TOWER TO BE REUSED.
  4. EXISTING CONDUITS ARE RIGID ALL THE WAY TO THE CCR. LAST 3' OF CONDUIT TO CCR SHALL BE FLEX CONDUIT.
  5. THE EXISTING ELECTRICAL EQUIPMENT IS SHOWN BASED ON AS-BUILT DRAWINGS AND OTHER REFERENCES. LOCATIONS ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE EXACT LOCATIONS PRIOR TO CONSTRUCTION AND AVOID EXISTING CABLES. THE CONTRACTOR MUST COORDINATE THEIR ACTIVITIES WITH THE ALCMS MANUFACTURER AND AIRPORT TO ENSURE THAT SERVICE IS NOT INTERRUPTED.
  6. CONTRACTOR TO PROVIDE NEW TYPEWRITTEN SWITCHBOARD DIRECTORY.



2 SINGLE LINE DIAGRAM (PROPOSED)  
NO SCALE

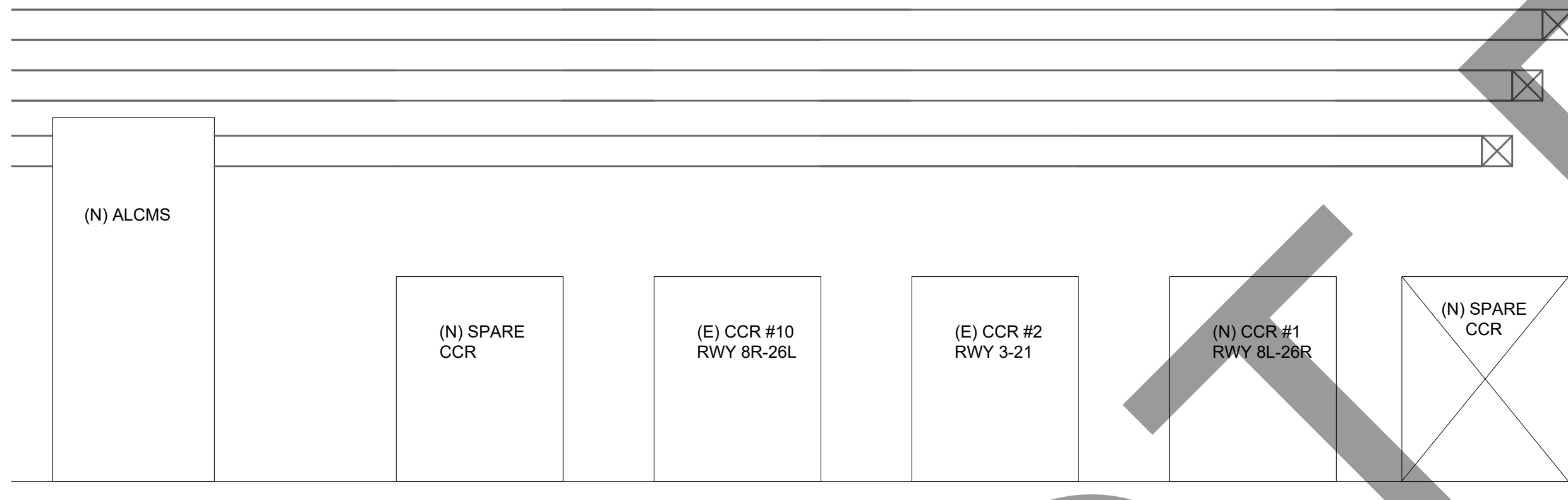


3 TYPICAL CCR SECTION VIEW  
NO SCALE

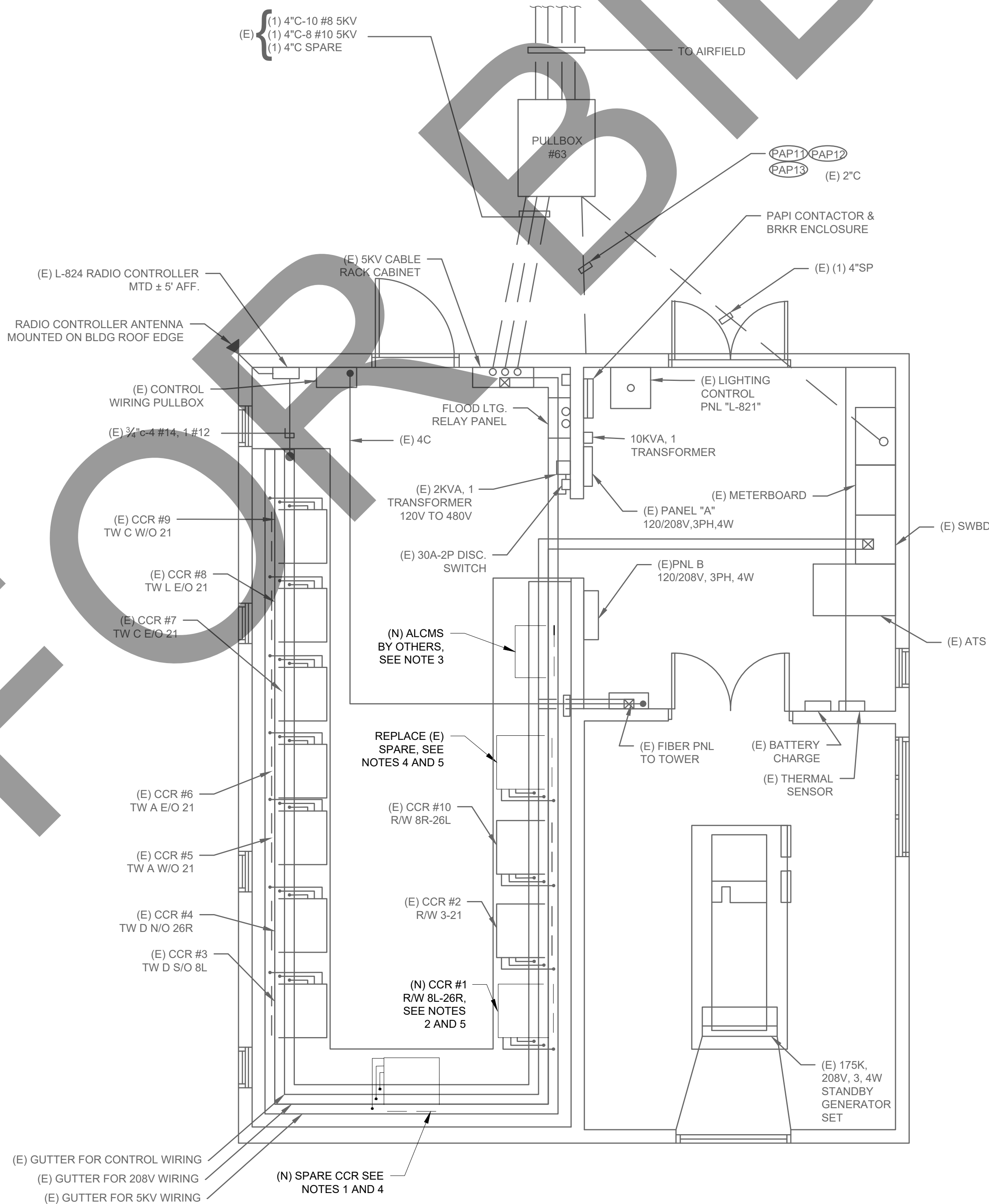


1 AIRFIELD LIGHTING VAULT PLAN (EXISTING)  
NO SCALE

- NOTES:
1. INSTALL (1) (N) 5-STEP 30 KW SPARE CCR, INCLUDING CABLE CONNECTIONS, AS SHOWN.
  2. REMOVE AND DISPOSE OF EXISTING RUNWAY 8L-26R CCR, AND INSTALL NEW 5-STEP, 20KW CCR IN SAME LOCATION. REMOVE AND DISPOSE OF EXISTING SPARE CCR AND INSTALL NEW 3-STEP CCR IN SAME LOCATION.
  3. EXISTING ALCMS TO BE UPGRADED. ALCMS MANUFACTURER TO PROVIDE EQUIPMENT AND PROGRAMMING. CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR ACCESS AND TO INCORPORATE NEW CCRS INTO THE ALCMS.
  4. NEW CONDUITS TO CCR SHALL HAVE LAST 3' OF CONDUIT TO BE FLEX CONDUIT.
  5. EXISTING CABLES TO BE EXTENDED AS REQUIRED TO REACH NEW CCR LOCATION. SPLICES SHALL BE INSIDE SQUARE DUCT.
  6. THE LAYOUTS AND WIRING DIAGRAM SHOWN ARE BASED ON EXISTING DRAWINGS AND IS INTENDED FOR INFORMATION PURPOSED ONLY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND BE RESPONSIBLE FOR TROUBLESHOOTING AND INVESTIGATIVE WORK NECESSARY TO INSTALL COMPLETELY OPERATIVE AIRFIELD LIGHTING CONTROLS.



2 CCR SECTION VIEW (FRONT)  
1/8" = 1'-0"



1 AIRFIELD LIGHTING VAULT PLAN (PROPOSED)  
1/4" = 1'-0"

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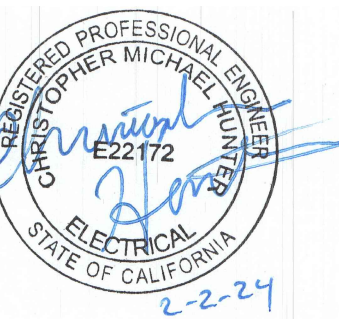
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SHEET CONTENTS  
VAULT DETAILS

SHEET NO. 6 OF 7

E-502



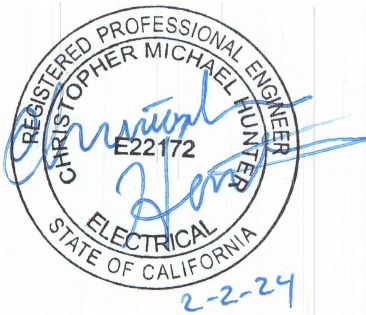
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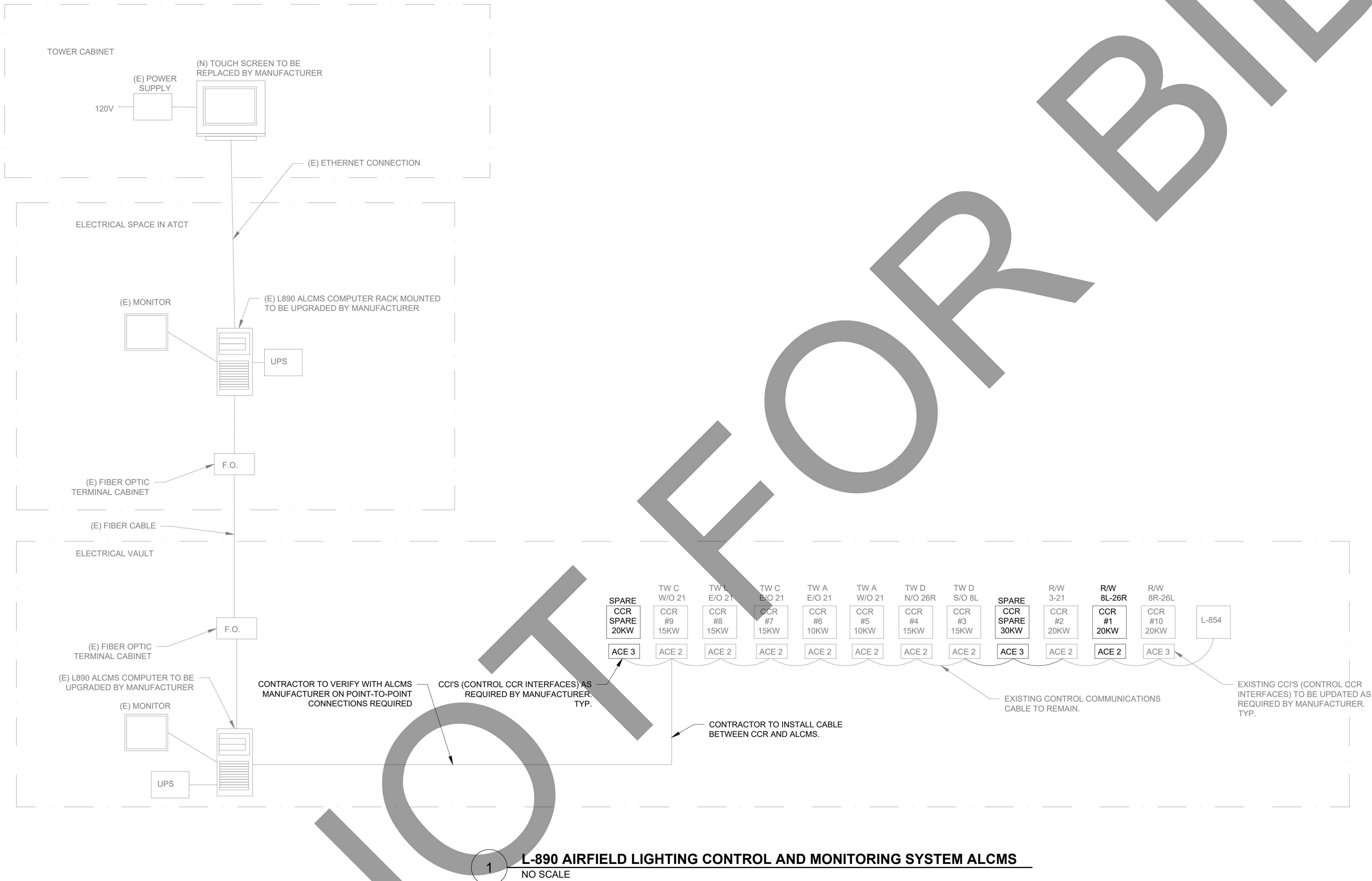
SHEET CONTENTS  
VAULT SCHEMATIC

SHEET NO. 7 OF 7

E-503

GENERAL NOTES:

1. THE PARTIAL WIRING DIAGRAM SHOWN IS BASED ON EXISTING DRAWINGS AND IS INTENDED FOR INFORMATION PURPOSED ONLY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND BE RESPONSIBLE FOR TROUBLESHOOTING AND INVESTIGATIVE WORK NECESSARY TO INSTALL COMPLETELY OPERATIVE AIRFIELD LIGHTING CONTROLS.
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN VAULT AND TOWER, INCLUDING CONDUIT AND CABLE RUNS. THE CONTRACTOR SHALL COORDINATE WITH ALCMS MANUFACTURER FOR A COMPLETE AND WORKING SYSTEM, WHICH MAY REQUIRE MORE THAN WHAT IS SHOWN IN THE DIAGRAM.



**L-890 AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM ALCMS**  
NO SCALE