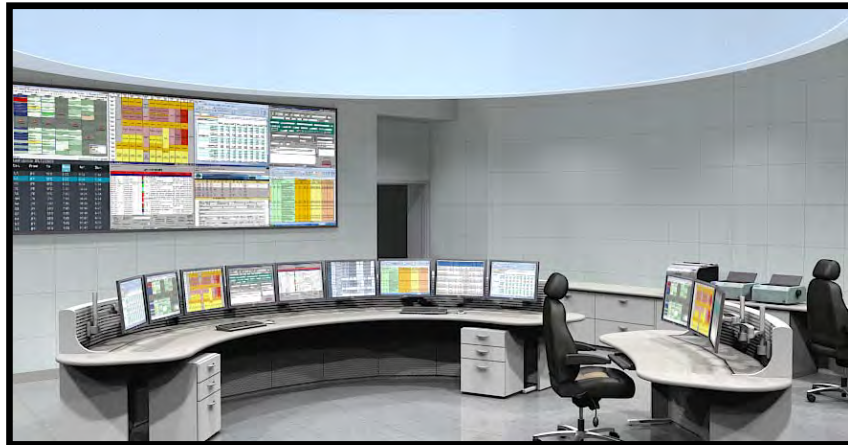




Facility Monitoring and Control System (FMCS)



Vendor Interface Briefing Booklet

May 2014

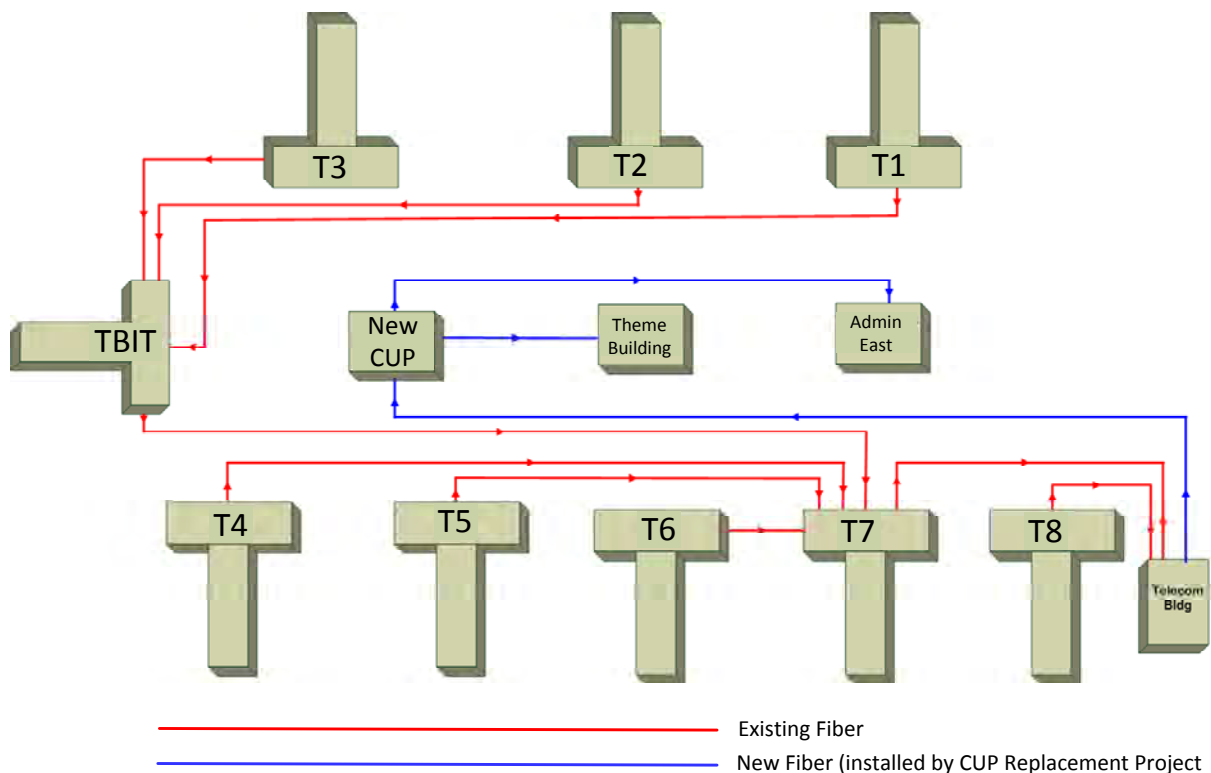
The new LAX Facility Monitoring and Control System (FMCS) is connected to the Central Utility Plant (CUP) Building Automation System (BAS) in each terminal. This FMCS/BAS system allows LAWA to optimize energy utilization in the airport and monitor operations in order to address HVAC issues more swiftly.

The FMCS is based on the Wonderware ArcestrA[®] System Platform and an integrated BAS based on the JCI Metasys Platform. The FMCS also has a dedicated Ethernet fiber infrastructure throughout the LAX Central Terminal Area (CTA), providing connectivity to the BAS systems installed in terminals 1-8, TBIT, Admin East and Theme buildings.

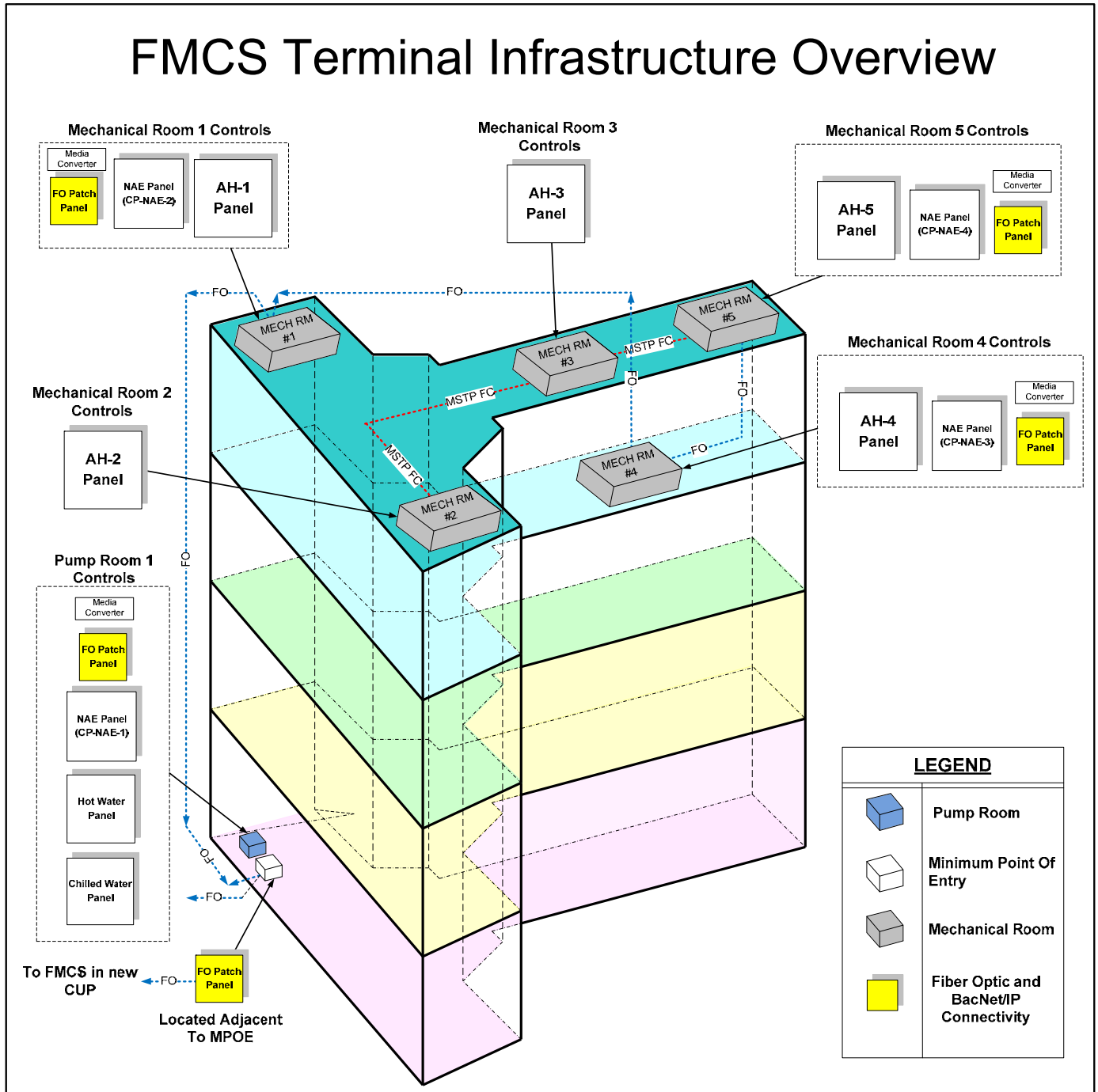
The FMCS was required to be non-proprietary and capable of integrating any vendor's BAS systems and components, as long as those components are BACnet[®]-compatible.

The CUP Replacement Project has installed a fiber backbone within each terminal/building for current and future connections to the FMCS by new tenant BAS installations and other potential systems (e.g., conveyance - escalators, elevators, etc.). The system has established locations with JCI NAE panels and Ethernet switches for BACnet[®]/IP interconnections to the FMCS by any compliant vendor. Technical interface requirements can be found in LAWA Guide Specification 25 20 00 TERMINAL BUILDING AUTOMATION SYSTEM (BAS).

The high-level overview of the FMCS fiber infrastructure in the CTA is shown below.



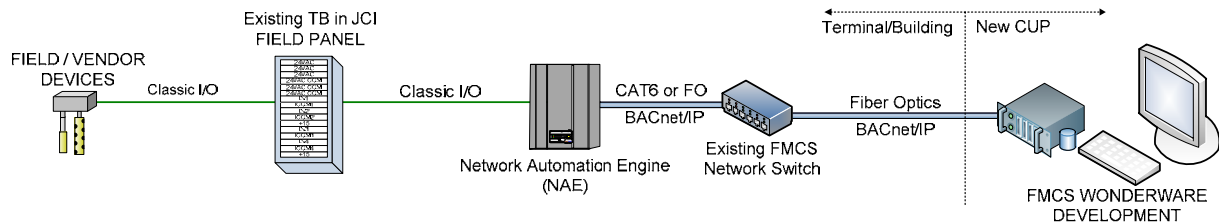
The example below provides a high-level overview of the FMCS infrastructure layout inside a “typical” terminal:



There are three methods of interfacing with the FMCS in the terminals:

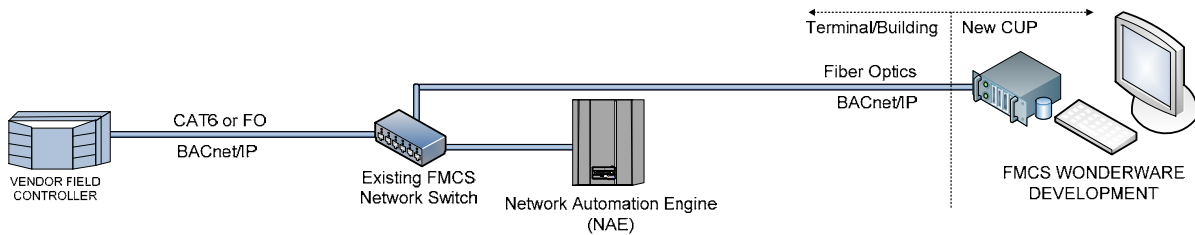
1) SCENARIO 1: ADD FIELD DEVICE(S) TO EXISTING SYSTEM

Identify field device's electrical and device input/output (I/O) requirements, to add onto existing controller(s). *NOTE - Coordinate with LAWA FMCS Administrator or the CUP Chief Engineer.*



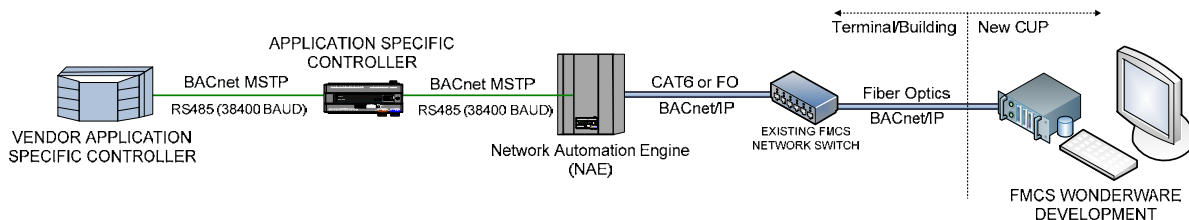
2) SCENARIO 2: NEW VENDOR-SUPPLIED FIELD CONTROLLER TIE-IN TO EXISTING SYSTEM

Identify network media and point of connection to system. *NOTE - Coordinate IP address and connection with LAWA FMCS Administrator or the CUP Chief Engineer.*



3) SCENARIO 3 - FIELD DEVICE / CONTROLLER TO EXISTING SYSTEM

Identify BACnet® MS/TP addressing, media type and point of connection to the communication bus (the MS/TP bus is based on BACnet® standard protocol SSPC-135, Clause 9). Baud Rate will need to be set at 38,400 and master type MS/TP devices only, no slave devices. End of line coordination required also. If ASC is on the end of line on the communication bus, provide 24 VAC for application of the FMCS EOL device. *NOTE - Coordinate with LAWA FMCS Administrator or the CUP Chief Engineer.*



FMCS Wonderware Integration

The graphics development and Wonderware database integration into the FMCS for all additional I/O points must be coordinated with the LAWA FMCS Administrator or the CUP Chief Engineer. This guide is intended solely to assist with understanding the hardware interface options for connecting to the FMCS.

NAE Panel Locations by Terminal/Building

Each of these NAE Panel locations provides complete BACnet/IP and BACnet MS/TP connectivity to the FMCS. These NAE panels are the primary point of connection for new device installed within the terminals. These NAE panels have been strategically placed within each terminal to make connections to the FMCS readily available.

Terminal 1 (reference drawing 20090033 sheet M801, 08/01/12)

NAE Panel Identifier	Location
1-1	Pump Room 103
1-2	Mechanical Room 401
1-3	Mechanical Room 404
1-4	Mechanical Room 406

Terminal 2 (reference drawing 20090033 sheet M802, 08/03/12)

NAE Panel Identifier	Location
2-1	Pump Room 1037
2-2	Mechanical Room 4521
2-3	Mechanical Room 1584

Terminal 3 (reference drawing 20090033 sheet M803, 07/31/12)

NAE Panel Identifier	Location
3-1	Pump Room 124
3-2	Mechanical Penthouse Room
3-3	Mechanical Room 132
3-4	Mechanical Room 401

Terminal 4 (reference drawing 20090033 sheet M804, 08/01/12)

NAE Panel Identifier	Location
4-1	Pump Room 128
4-2	Mechanical Room 4219
4-3	Mechanical Room 4115
4-4	Mechanical Room 406
4-5	Satellite Roof Mechanical Room

Terminal 5 (reference drawing 20090033 sheet M805, 08/03/12)

NAE Panel Identifier	Location
5-1	Pump Room 122
5-2	Mechanical Room 4318
5-3	Mechanical Room 4601
5-4	Mechanical Room 4802
5-5	Mechanical Room 4905

Terminal 6 (reference drawing 20090033 sheet M806, 08/03/12)

NAE Panel Identifier	Location
6-1	Pump Room 917
6-2	Mechanical Room 286
6-3	Mechanical Room 138
6-4	Mechanical Room 409
6-5	Mechanical Room 402

Terminal 7 (reference drawing 20090033 sheet M807, 08/02/12)

NAE Panel Identifier	Location
7-1	Pump Room 2E67
7-2	Mechanical Room 292A
7-3	Pump Room #3 (Mezzanine)
7-4	Mechanical Room 401

Terminal 8 (reference drawing 20090033 sheet M808, 08/02/12)

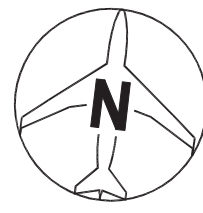
NAE Panel Identifier	Location
8-1	Pump Room 204
8-2	Roof AHU-3
8-3	Roof AHU-1

ADMIN EAST BUILDING (reference drawing 20090033 sheet M810, 08/02/12)

NAE Panel Identifier	Location
10-1	Pump Room (Basement)
10-2	Mechanical Room (East Penthouse)

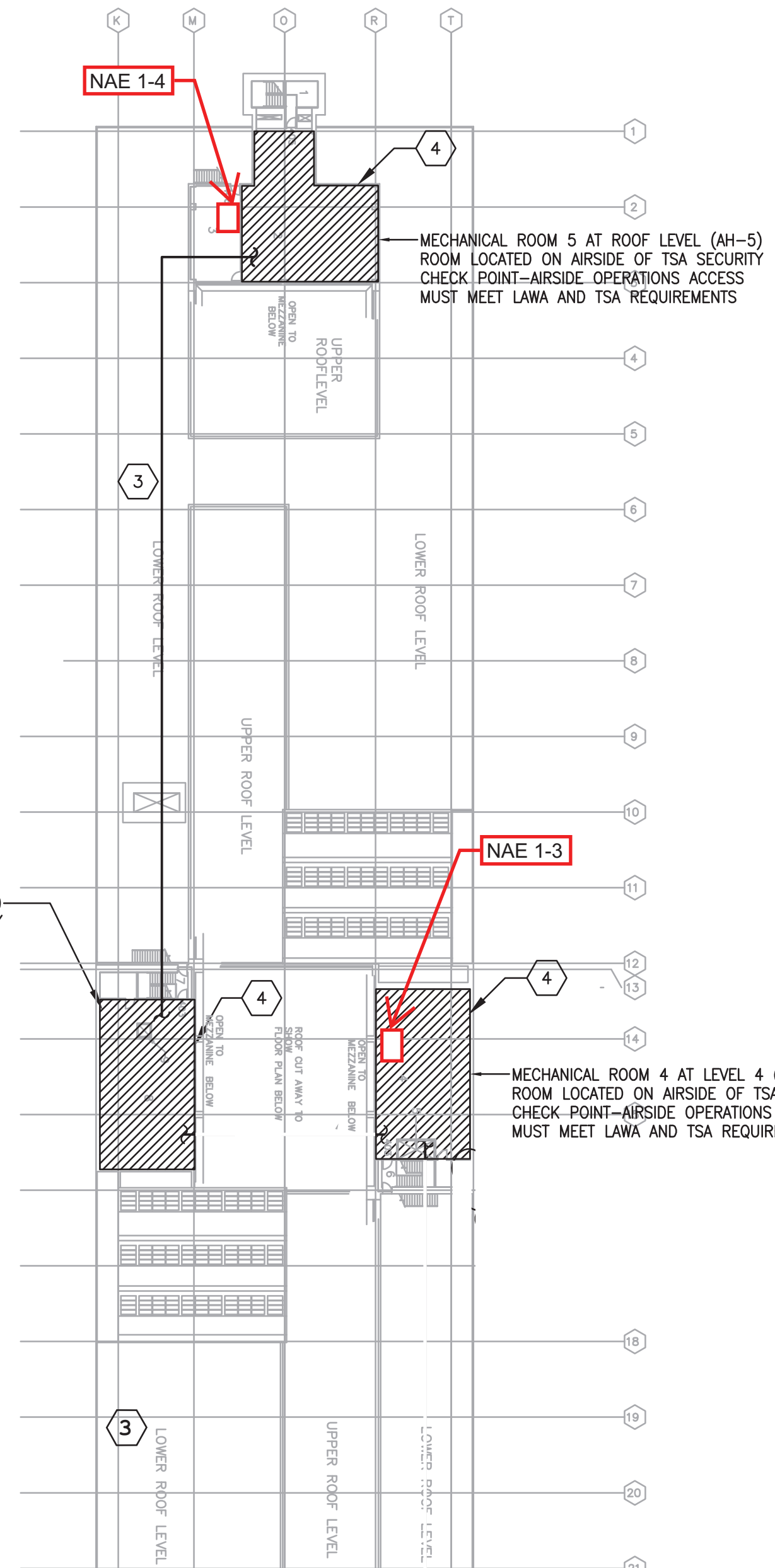
THEME BUILDING (reference drawing 20090033 sheet M811, 08/02/12)

NAE Panel Identifier	Location
11-1	Pump Room (Basement)



□ NAE Panel

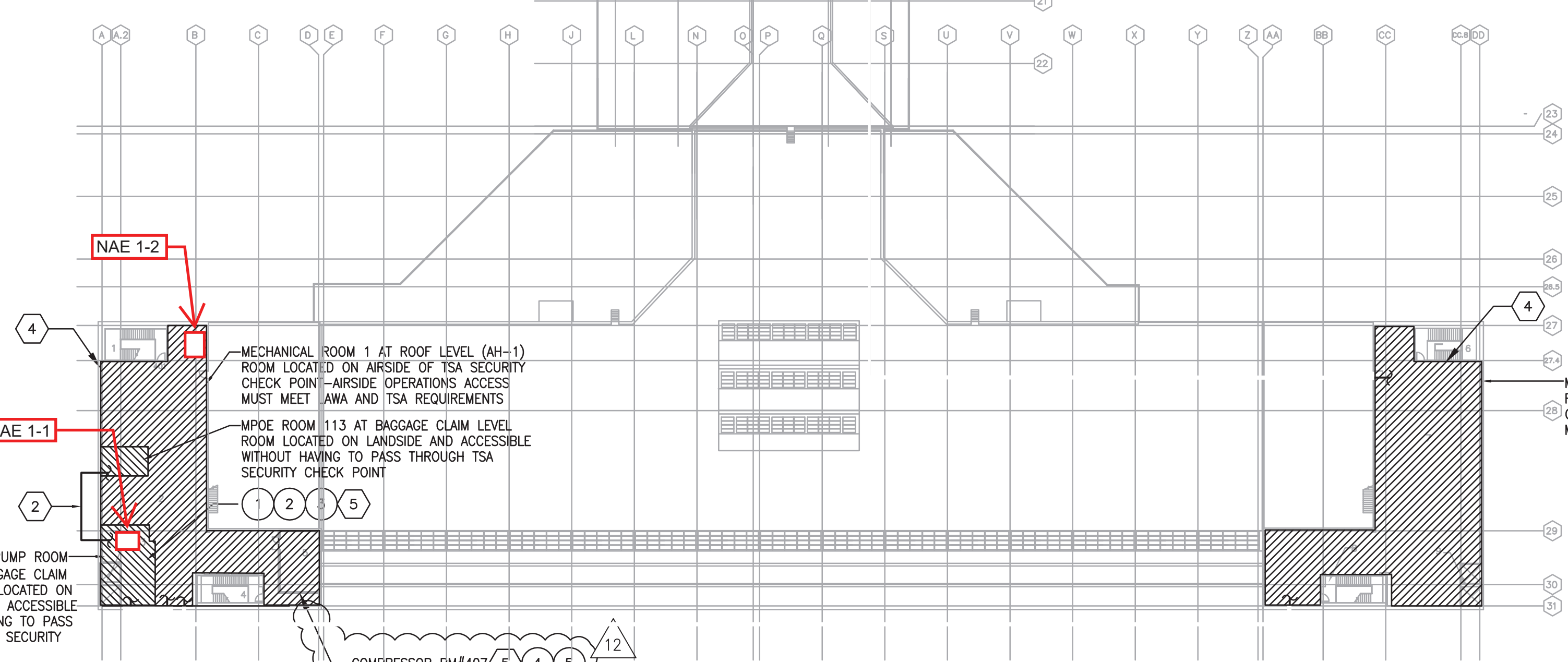
- 1-1: Pump Rm 103
- 1-2: Mech Rm 401
- 1-3: Mech Rm 404
- 1-4: Mech Rm 406



MECHANICAL ROOM 3 AT ROOF LEVEL (AH-3)
ROOM LOCATED ON AIRSIDE OF TSA SECURITY
CHECK POINT-AIRSIDE OPERATIONS ACCESS
MUST MEET LAWA AND TSA REQUIREMENTS

NAE 1-3

MECHANICAL ROOM 4 AT LEVEL 4 (AH-4)
ROOM LOCATED ON AIRSIDE OF TSA SECURITY
CHECK POINT-AIRSIDE OPERATIONS ACCESS
MUST MEET LAWA AND TSA REQUIREMENTS



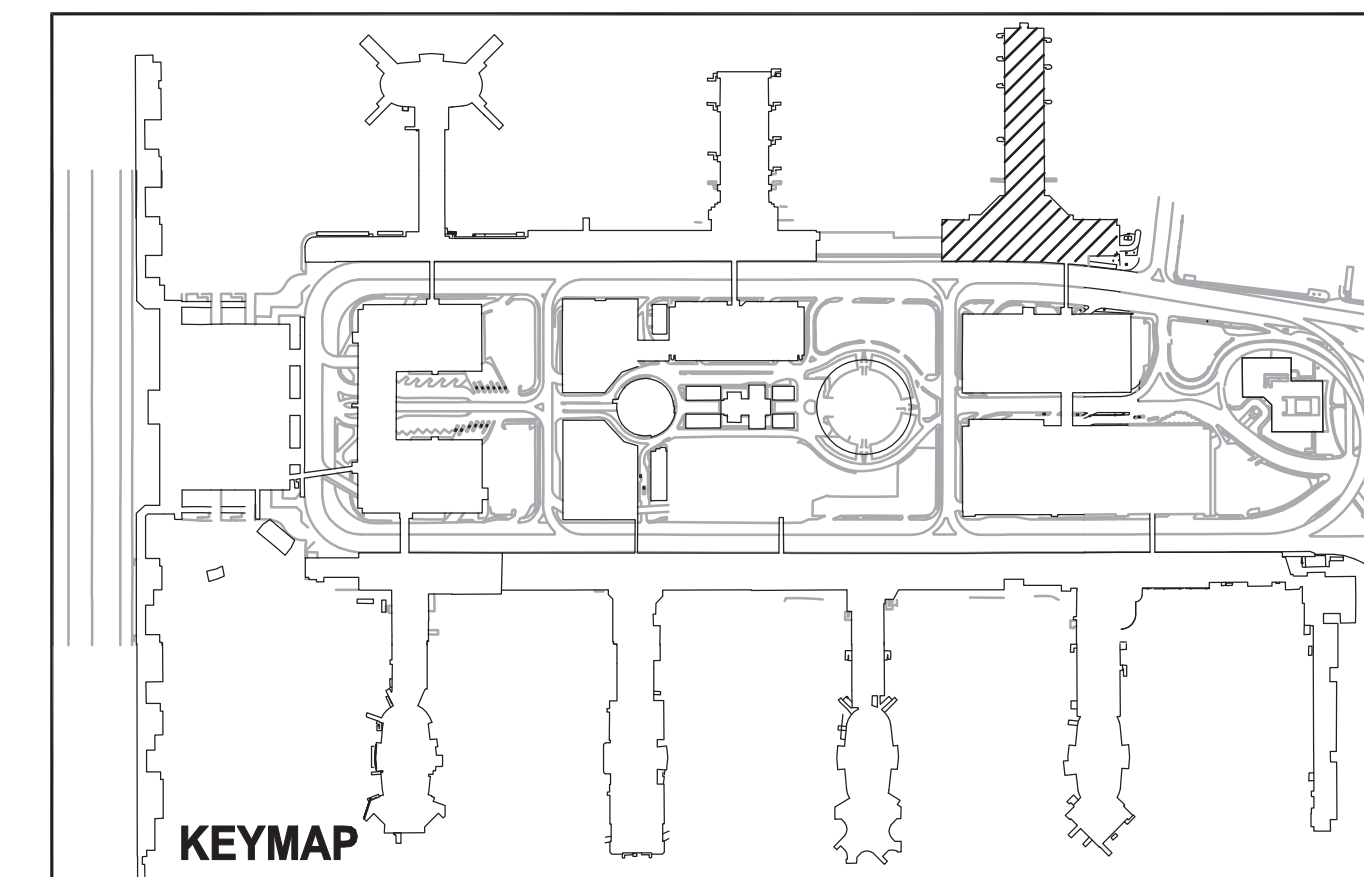
1
TERMINAL 1 PUMP ROOM
#103 AT BAGGAGE CLAIM
LEVEL ROOM LOCATED ON
LANDSIDE AND ACCESSIBLE
WITHOUT HAVING TO PASS
THROUGH TSA SECURITY
CHECK POINT

MECHANICAL ROOM 1 AT ROOF LEVEL (AH-1)
ROOM LOCATED ON AIRSIDE OF TSA SECURITY
CHECK POINT-AIRSIDE OPERATIONS ACCESS
MUST MEET LAWA AND TSA REQUIREMENTS

MPOE ROOM #113 AT BAGGAGE CLAIM LEVEL
ROOM LOCATED ON LANDSIDE AND ACCESSIBLE
WITHOUT HAVING TO PASS THROUGH TSA
SECURITY CHECK POINT

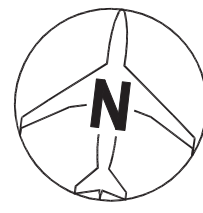
MECHANICAL ROOM 2 AT ROOF LEVEL (AH-2)
ROOM LOCATED ON AIRSIDE OF TSA SECURITY
CHECK POINT-AIRSIDE OPERATIONS ACCESS
MUST MEET LAWA AND TSA REQUIREMENTS

COMPRESSOR RM#407
AT LEVEL 4



ENGINEER STAMP:			
NO.	DESCRIPTION	CHK'D	APP'D DATE
	Terminal Pump Room Upgrade		08/01/12
	ADDENDUM 12		06/18/10
	ADDENDUM 9		04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL		10/06/09

Hatch Mott MacDonald		SYSKA HENNESSY GROUP	
Los Angeles World Airports			
CTA CENTRAL UTILITY PLANT REPLACEMENT			
TERMINAL 1			
MECHANICAL SITE PLAN			
LOS ANGELES INTERNATIONAL AIRPORT			
SUBMITTED BY		APPROVED BY	
ASST. CHIEF AIRPORTS ENGINEER		CHIEF AIRPORTS ENGINEER	
DRAWN	AM	CHECKED	WL
PLAN SET NUMBER		SHEET	
		M801	
GRID LOCATIONS		SCALE	
TO		1"=40'-0"	
DATE		10/06/09	
FILE NAME M801		DWC NO.	
		20090033	



- NAE Panel
- 2-1: Pump Rm 1037
- 2-2: Mech Rm 4521
- 2-3: Mech Rm 1584

FAN ROOM MER 1584 AT BAGGAGE CLAIM LEVEL
(AH-13 THRU AH-16)
ROOM LOCATED ON LANDSIDE AND ACCESSIBLE
WITHOUT HAVING TO PASS THROUGH TSA
SECURITY CHECK POINT

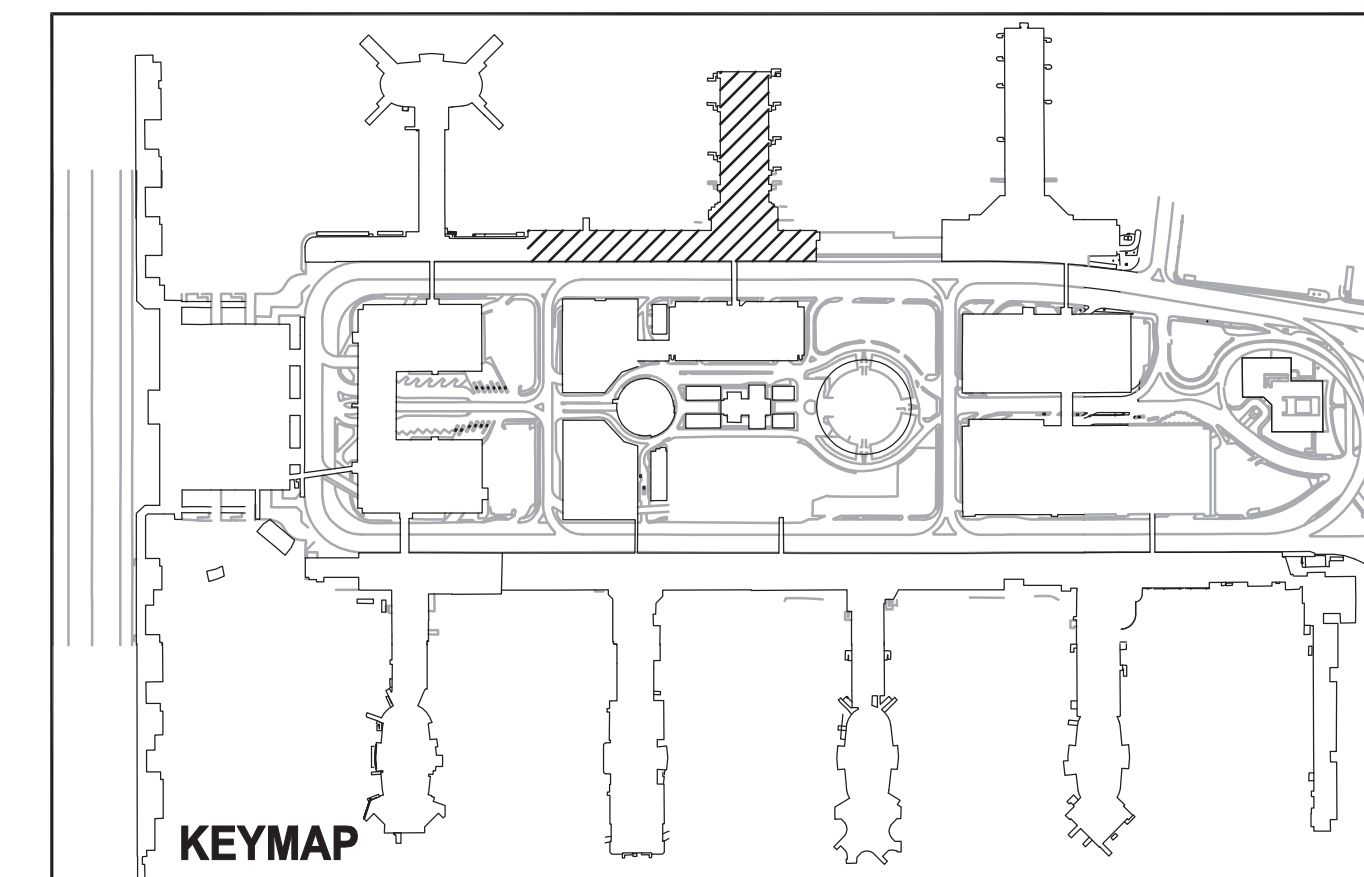
FAN ROOM MER 4521AT MEZZANINE LEVEL
(AH-7 THRU AH-12)
ROOM LOCATED ON AIRSIDE OF TSA SECURITY
CHECK POINT-AIRSIDE OPERATIONS ACCESS
MUST MEET LAWA AND TSA REQUIREMENTS

FAN ROOM MER 4503 LOCATED AT MEZZANINE LEVEL
(AH-2 THRU AH-6)
ROOM LOCATED ON AIRSIDE OF TSA SECURITY
CHECK POINT-AIRSIDE OPERATIONS ACCESS
MUST MEET LAWA AND TSA REQUIREMENTS

MPOE ROOM 1060 AT BAGGAGE CLAIM LEVEL
ROOM LOCATED ON LANDSIDE AND ACCESSIBLE
WITHOUT HAVING TO PASS THROUGH TSA
SECURITY CHECK POINT

FAN ROOM MER 1007 AT BAGGAGE CLAIM LEVEL
(AH-17&18)
ROOM LOCATED ON LANDSIDE AND ACCESSIBLE
WITHOUT HAVING TO PASS THROUGH TSA
SECURITY CHECK POINT

TERMINAL 2 PUMP ROOM 1037 AT BAGGAGE CLAIM
LEVEL ROOM LOCATED ON LANDSIDE AND ACCESSIBLE
WITHOUT HAVING TO PASS THROUGH TSA
SECURITY CHECK POINT



ENGINEER STAMP:			
NO.	DESCRIPTION	CHK'D	APP'D DATE
	Terminal Pump Room Upgrade		08/03/12
	ADDENDUM 12		06/18/10
	ADDENDUM 9		04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL		10/06/09

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Los Angeles World Airports
CTA CENTRAL UTILITY PLANT REPLACEMENT

**TERMINAL 2
MECHANICAL SITE PLAN**

LOS ANGELES INTERNATIONAL AIRPORT

ASST. CHIEF AIRPORTS ENGINEER

DRAWN AM CHECKED BS/IV

SCALE 1"=40'-0" DATE 10/06/09

GRID LOCATIONS TO

FILE NAME M802

CHIEF AIRPORTS ENGINEER

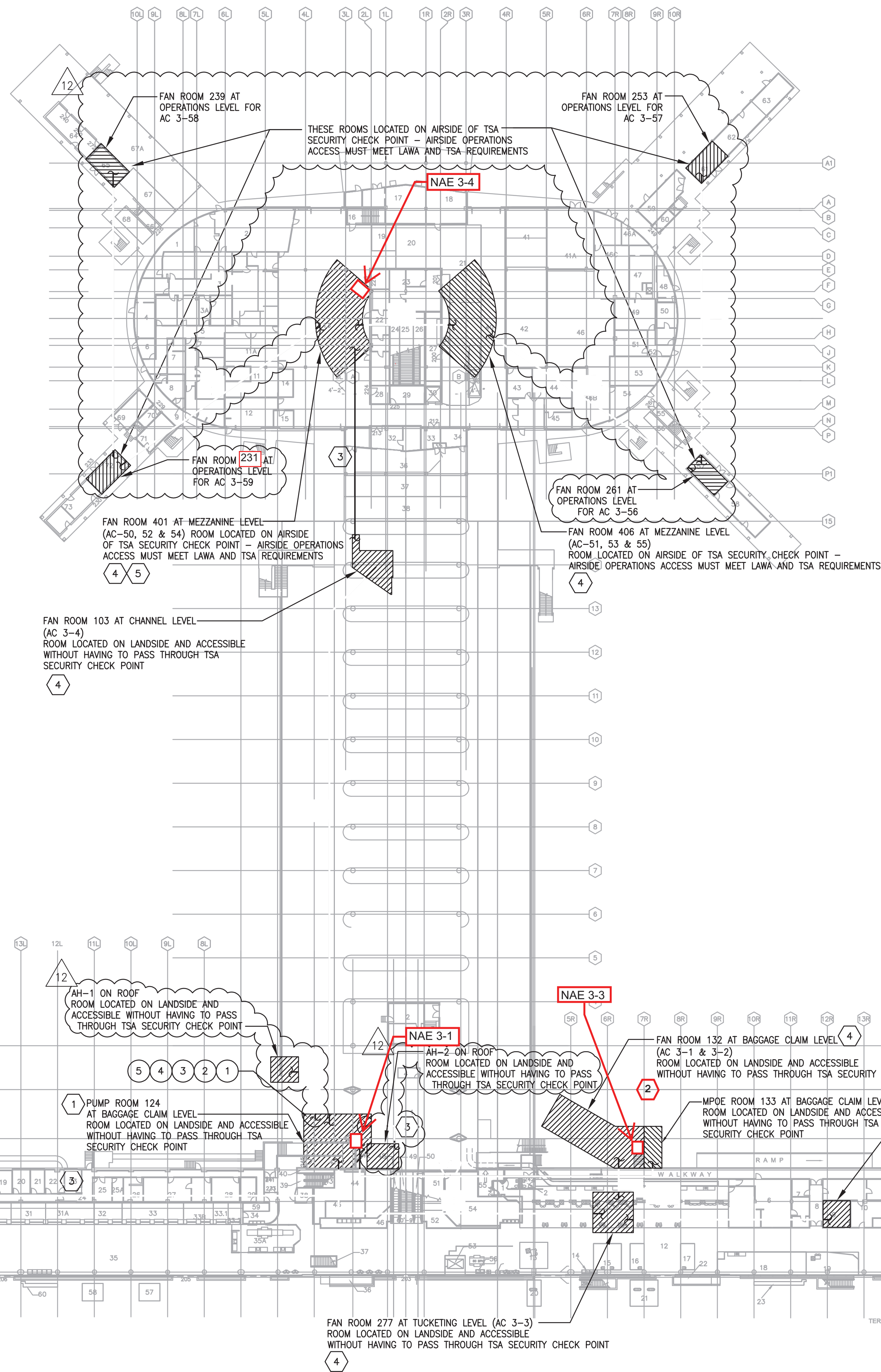
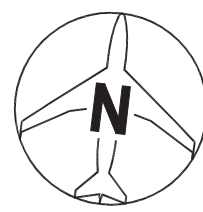
APPROVED BY

PLAN SET NUMBER SHEET M802

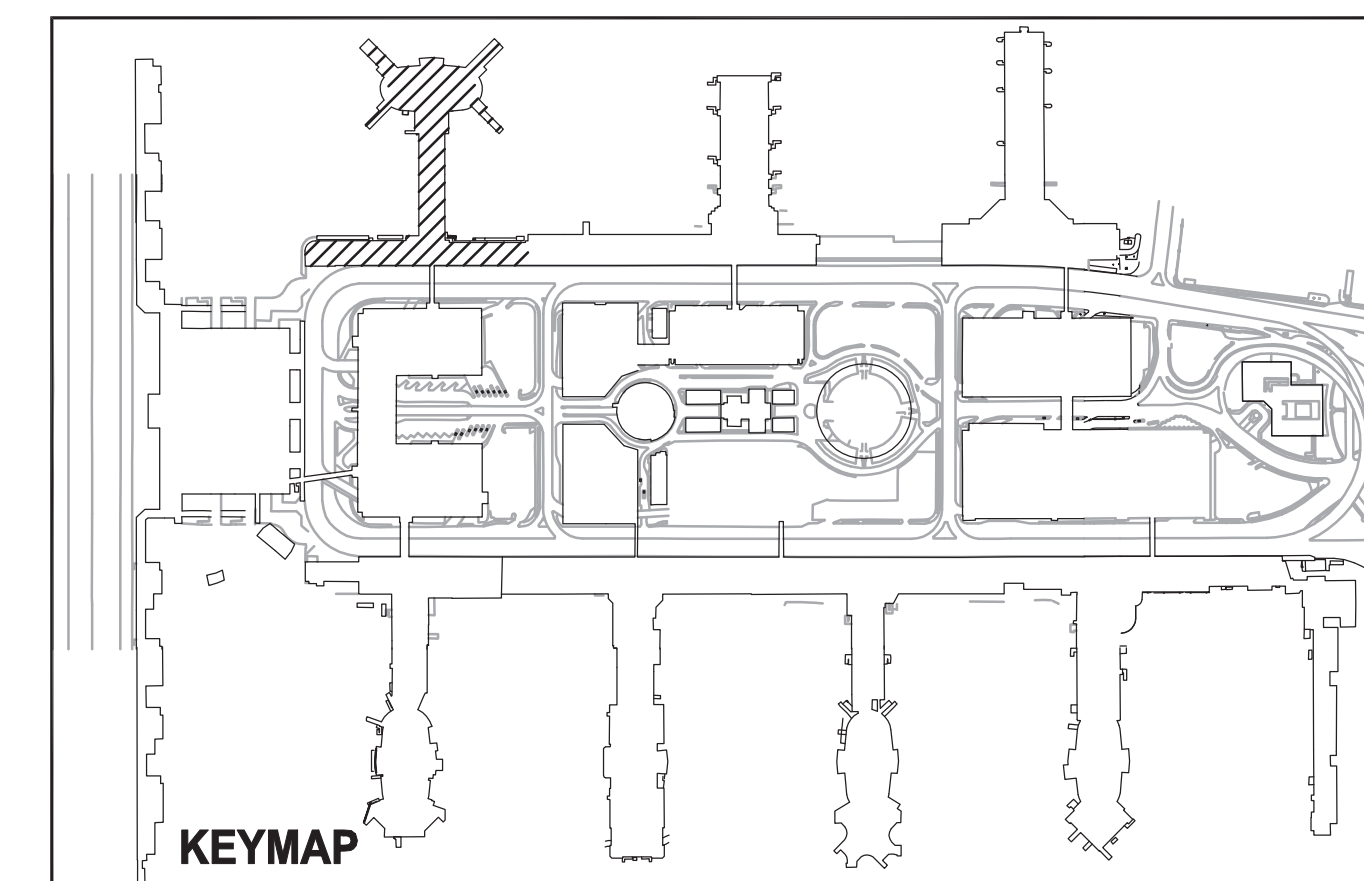
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NOTE: THE DRAWINGS DEPICT PROJECT CRITERIA AND A PRELIMINARY DESIGN CONCEPT FOR DEVELOPMENT BY THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR. IT IS INTENDED THAT THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR BEGIN THEIR DESIGN EFFORTS FROM THIS INITIAL BASIS. AS SUCH, THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING ALL EXISTING CONDITIONS AND DEVELOPING THE FINAL DESIGN IN CONFORMANCE WITH PROJECT CRITERIA, CONTRACT REQUIREMENTS AND APPLICABLE CODES AND ORDINANCES. LAWA PROVIDES NO WARRANTY, EXPRESSED OR IMPLIED, THAT THE PRELIMINARY DESIGN CONCEPTS SHOWN HEREIN WILL MEET PROJECT REQUIREMENTS WITHOUT MODIFICATION, INCLUDING WITHOUT LIMITATION ANY FINANCIAL, TECHNICAL OR PERFORMANCE REQUIREMENTS OF ANY KIND, SUCH OBLIGATION TO MEET PROJECT REQUIREMENTS RESTING SOLELY WITH PRIME DESIGN BUILD PROPOSER/CONTRACTOR.

P:\LA\MEP_W\LED00000\Drawings\Sheet\M802 TERMINAL 2 MECHANICAL SITE PLAN.dwg Jun 17, 2010, 3:47pm



- NAE Panel
- 3-1: Pump Rm 124
- 3-2: Mech Penthouse Rm
- 3-3: Mech Rm 132
- 3-4: Mech Rm 401



ENGINEER STAMP:			
NO.	DESCRIPTION	CHK'D	APP'D
	Terminal Pump Room Upgrade		07/31/12
	ADDENDUM 12		06/18/10
	ADDENDUM 9		04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL		10/06/09

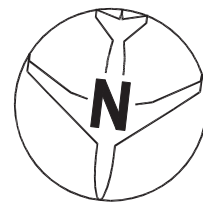
Los Angeles World Airports
**CTA CENTRAL UTILITY PLANT REPLACEMENT
 TERMINAL 3
 MECHANICAL SITE PLAN**

LOS ANGELES INTERNATIONAL AIRPORT

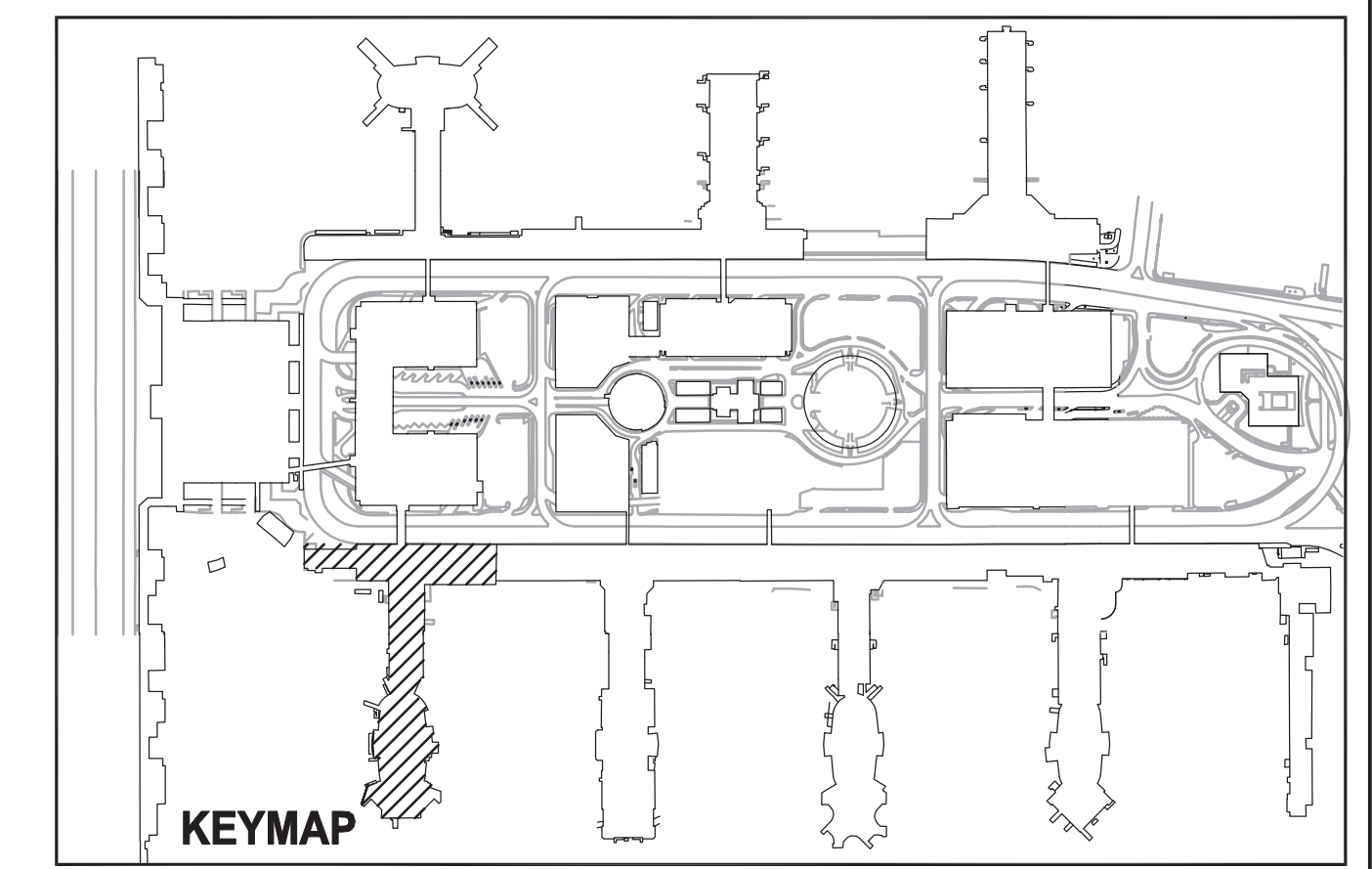
SUBMITTED BY		APPROVED BY	
ASST. CHIEF AIRPORTS ENGINEER	CHECKED	CHIEF AIRPORTS ENGINEER	PLAN SET NUMBER
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SCALE		DATE	DWG. NO.
1"=40'-0"		10/06/09	20090033
FILE NAME M803			

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P:\A\MEP_W\LECD000\Drawings\Sheet M803 TERMINAL 3 MECHANICAL SITE PLAN.dwg Jun 17, 2010, 3:41pm



- NAE Panel
- 4-1: Pump Rm 128
- 4-2: Mech Rm 4219
- 4-3: Mech Rm 4115
- 4-4: Mech Rm 406
- 4-5: Sat Roof Mech Rm



ENGINEER STAMP:

Terminal Pump Room Upgrade	08/01/12			
ADDENDUM 12	06/18/10			
ADDENDUM 9	04/13/10			
ISSUED FOR DESIGN BUILD PROPOSAL	10/06/09			
NO.	DESCRIPTION	CHK'D	APP'D	DATE

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CTA CENTRAL UTILITY PLANT REPLACEMENT

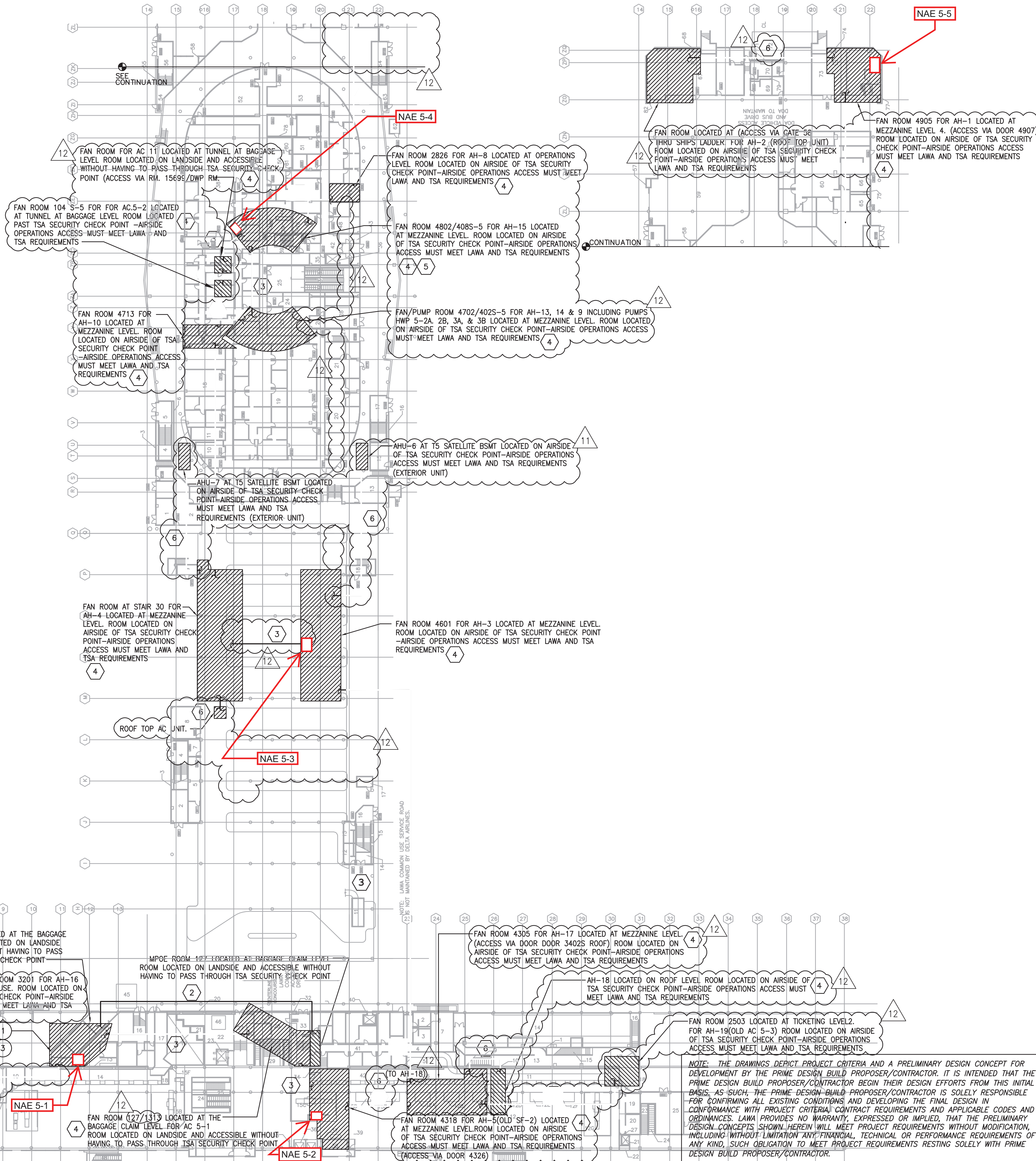
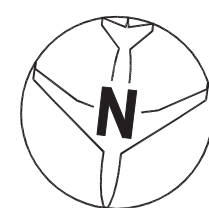
TERMINAL 4

MECHANICAL SITE PLAN

LOS ANGELES INTERNATIONAL AIRPORT

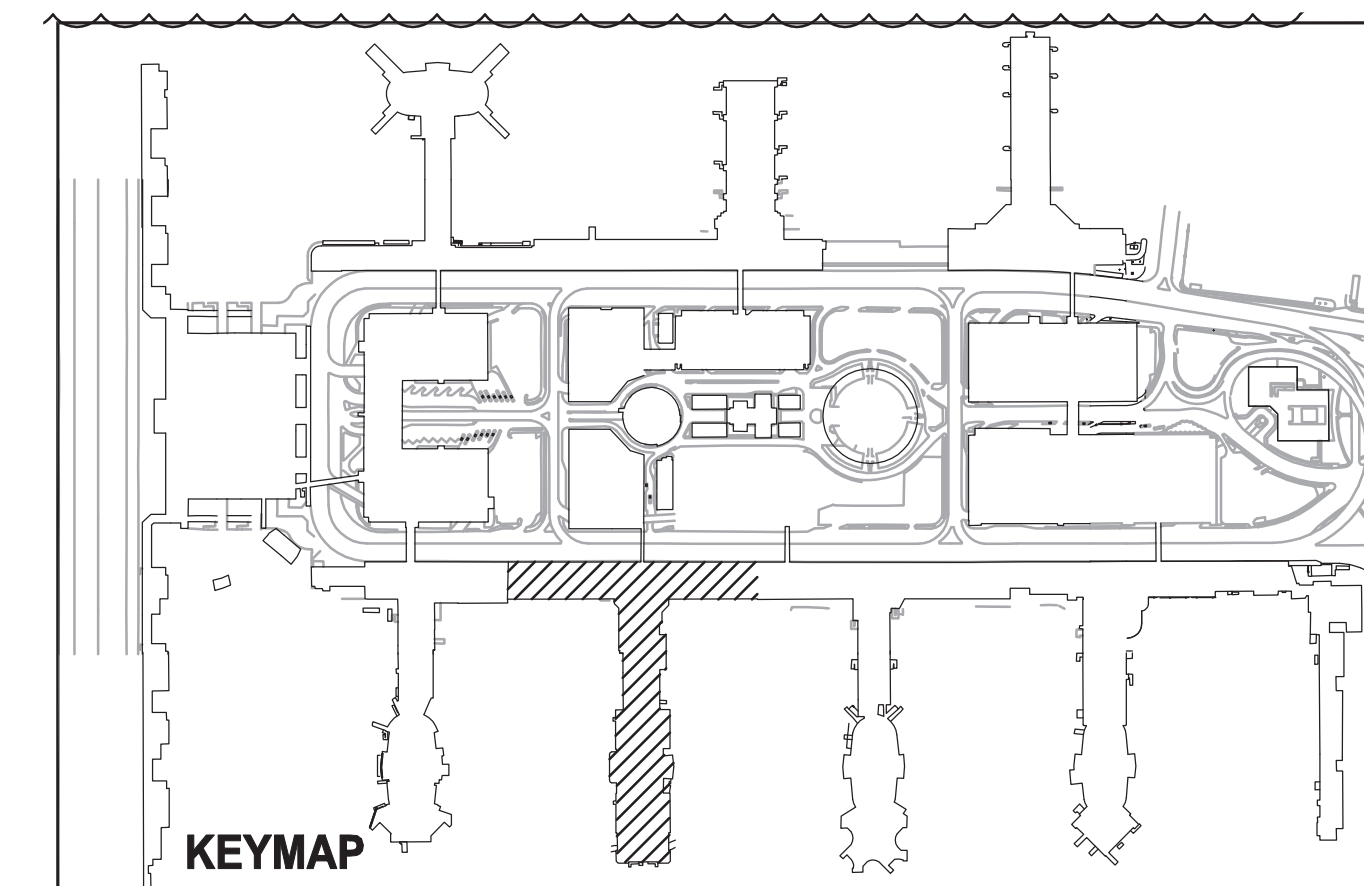
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TO	FILE NAME M804		

P:\A\MEP_W\LECD000\Drawings\Sheet\M804_TERMINAL 4_MECHANICAL_SITE_PLAN.dwg Jan 17, 2010, 3:52pm



NAE Panel

- 5-1: Pump Rm 122
- 5-2: Mech Rm 4318
- 5-3: Mech Rm 4601
- 5-4: Mech Rm 4802
- 5-5: Mech Rm 4905



NO.	DESCRIPTION	CHK'D	APP'D	DATE
	Terminal Pump Room Upgrade			08/03/12
	ADDENDUM 12			06/18/10
	ADDENDUM 9			04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL			10/06/09

Hatch Mott MacDonald

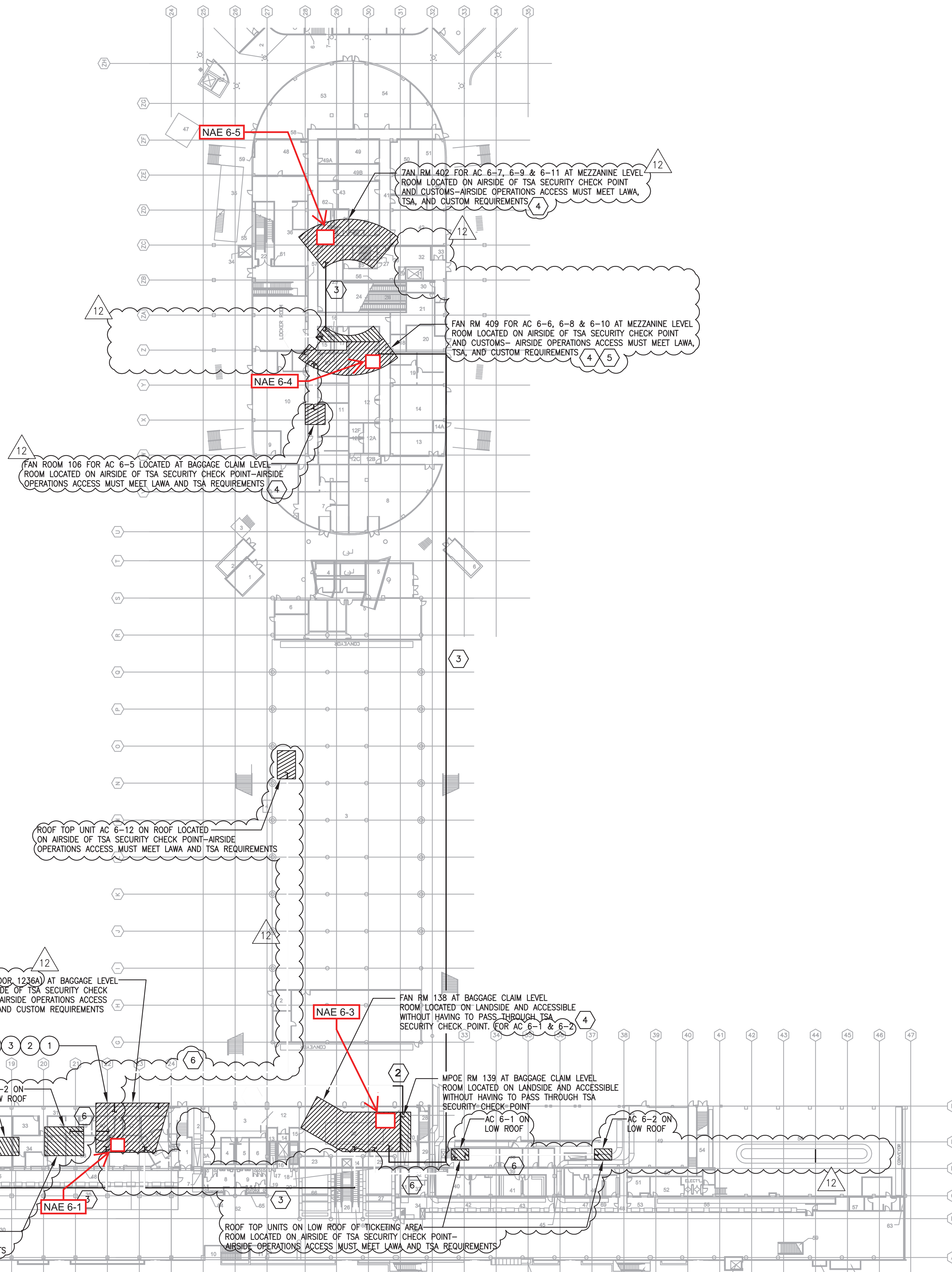
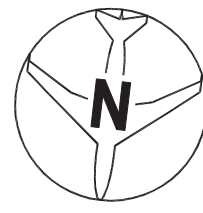
SYSKA HENNESSY GROUP

Los Angeles World Airports
CTA CENTRAL UTILITY PLANT REPLACEMENT
TERMINAL 5
MECHANICAL SITE PLAN
LOS ANGELES INTERNATIONAL AIRPORT

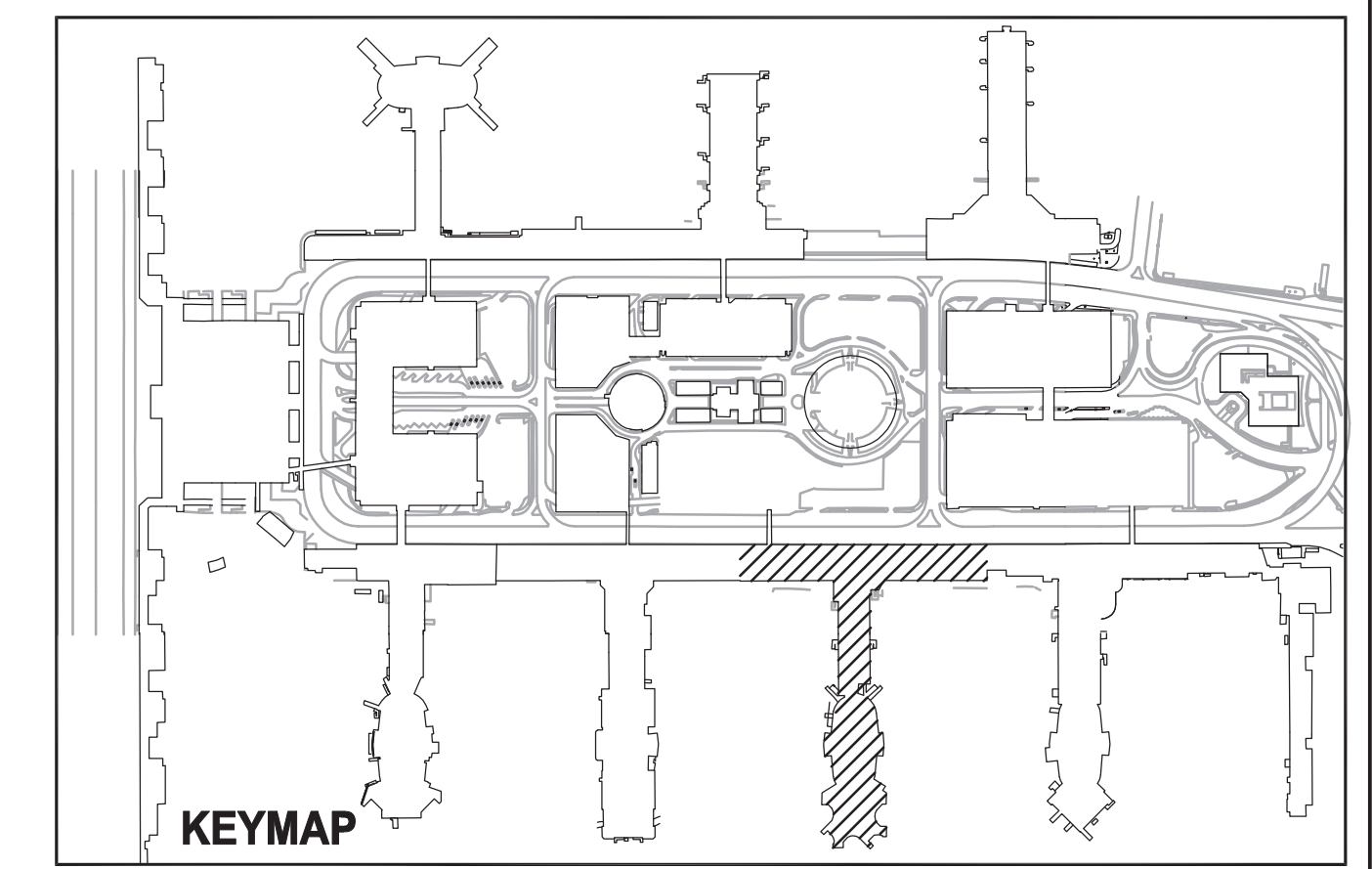
SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER		APPROVED BY CHIEF AIRPORTS ENGINEER	
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GRID LOCATIONS		DWG. NO. 20090033	
FILE NAME: M805			

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- NAE Panel
 6-1: Pump Rm 917
 6-2: Mech Rm 286
 6-3: Mech Rm 138
 6-4: Mech Rm 409
 6-5: Mech Rm 402

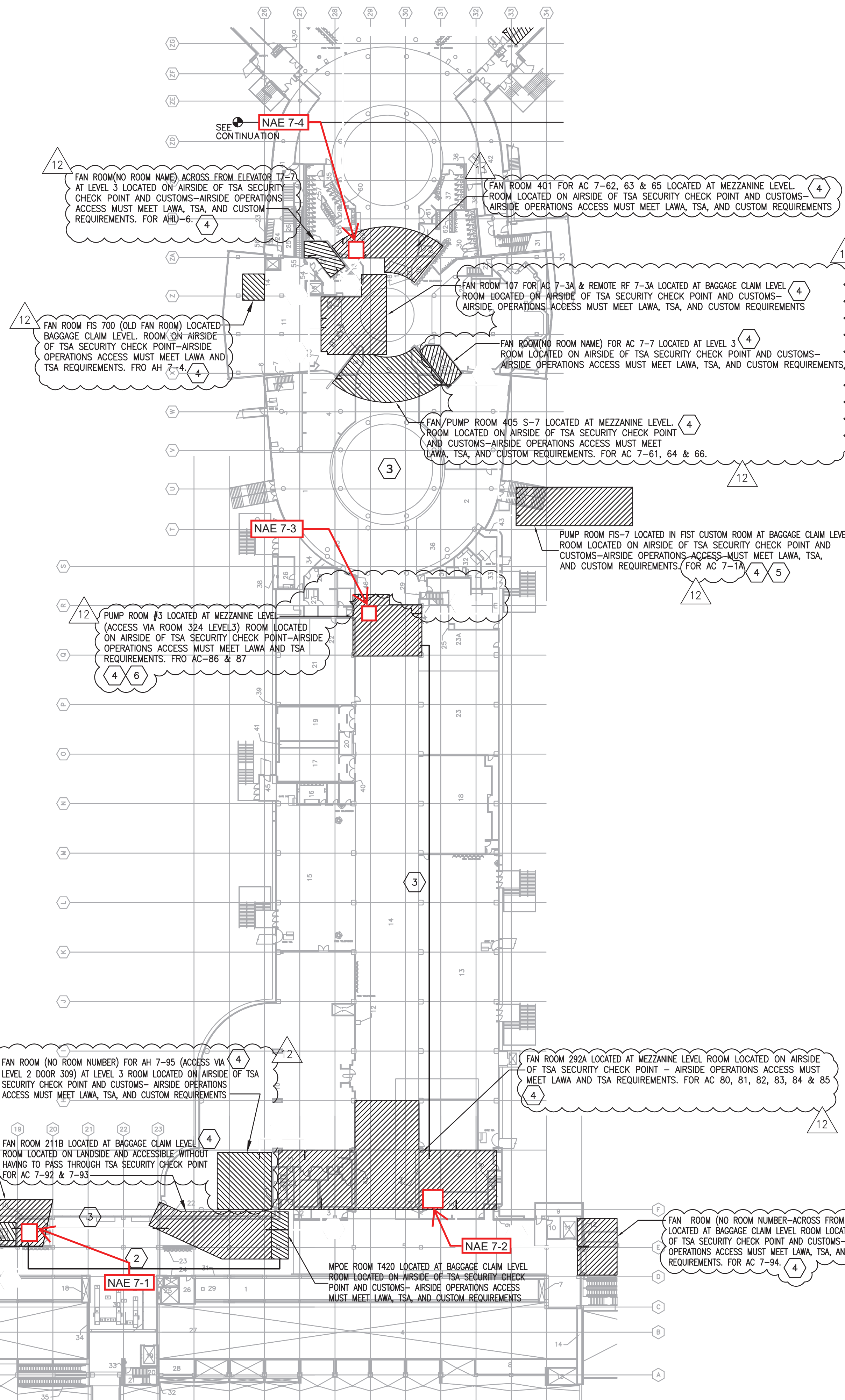
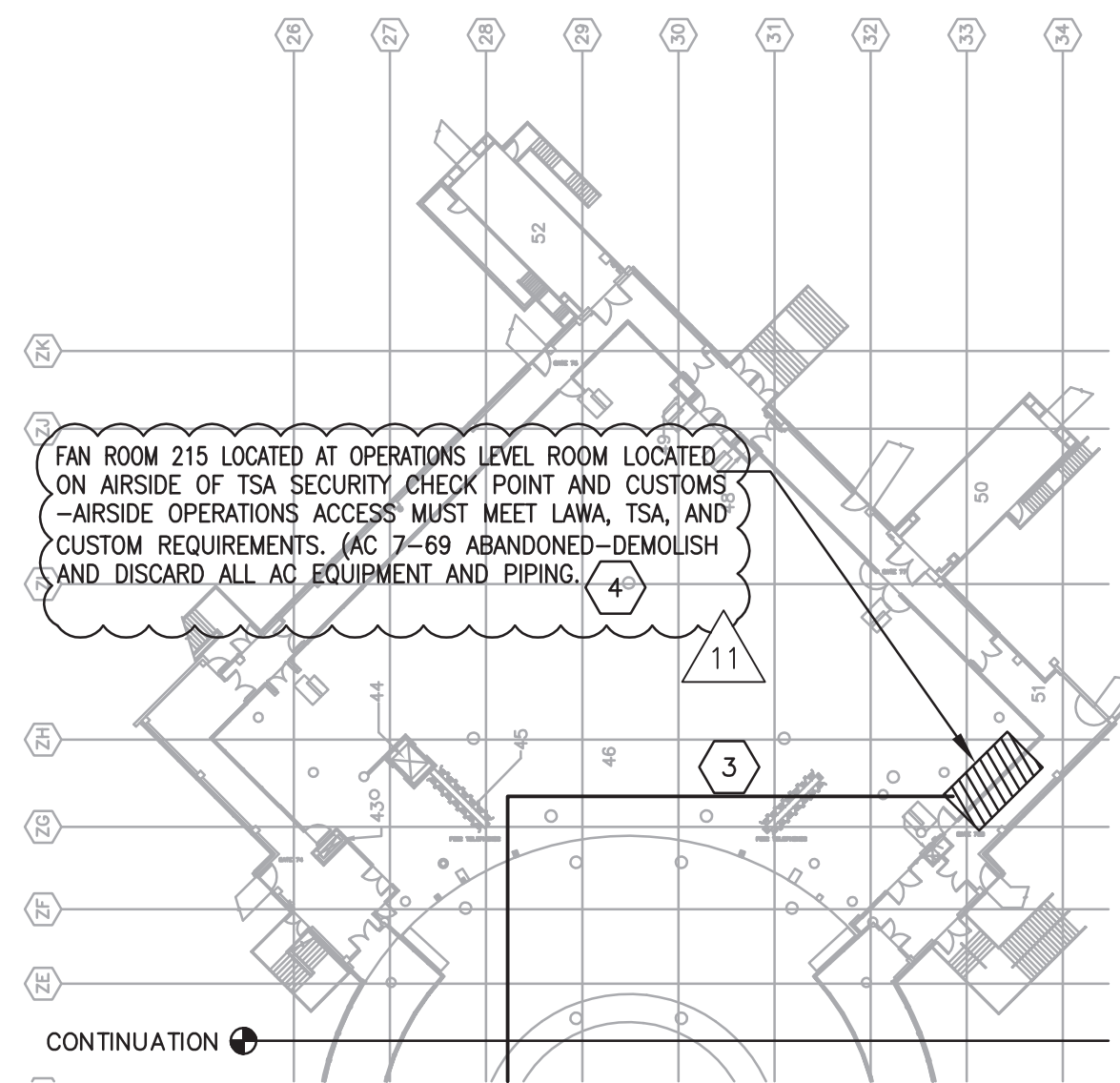
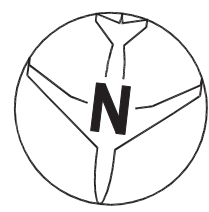


ENGINEER STAMP:

NO.	DESCRIPTION	CHK'D	APP'D	DATE
	Terminal Pump Room Upgrade			08/03/12
	ADDENDUM 12			06/18/10
	ADDENDUM 9			04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL			10/06/09

Los Angeles World Airports CTA CENTRAL UTILITY PLANT REPLACEMENT TERMINAL 6 MECHANICAL SITE PLAN LOS ANGELES INTERNATIONAL AIRPORT			
SUBMITTED BY		APPROVED BY	
ASST. CHIEF AIRPORTS ENGINEER	CHIEF AIRPORTS ENGINEER	PLAN SET NUMBER	SHEET
DRAWN AM	CHECKED WL		M806
GRID LOCATIONS	SCALE 1"=40'-0"	DATE 10/06/09	DWG. NO. 20090033
TO	FILE NAME M806		

P:\A\MEP_W\LEC0000\Drawings\Sheet\M806_TERMINAL 6_MECHANICAL_SITE_PLAN.dwg Jan 17, 2010, 3:30pm



- NAE Panel
- 7-1: Pump Rm 2E67
- 7-2: Mech Rm 292A
- 7-3: Pump Rm #3
- 7-4: Mech Rm 401

FAN ROOM 215 LOCATED AT OPERATIONS LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS. (AC 7-69 ABANDONED-DEMOLISH AND DISCARD ALL AC EQUIPMENT AND PIPING.)

FAN ROOM (NO ROOM NAME) ACROSS FROM ELEVATOR 17-7 AT LEVEL 3 LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS. FOR AHU-6.

FAN ROOM 401 FOR AC 7-62, 63 & 65 LOCATED AT MEZZANINE LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS

FAN ROOM FIS 700 (OLD FAN ROOM) LOCATED BAGGAGE CLAIM LEVEL ROOM ON AIRSIDE OF TSA SECURITY CHECK POINT - AIRSIDE OPERATIONS ACCESS MUST MEET LAW AND TSA REQUIREMENTS. FRO AH 7-4.

FAN ROOM 107 FOR AC 7-3A & REMOTE RF 7-3A LOCATED AT BAGGAGE CLAIM LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS

FAN ROOM (NO ROOM NAME) FOR AC 7-7 LOCATED AT LEVEL 3 ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS

FAN/PUMP ROOM 405 S-7 LOCATED AT MEZZANINE LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS. FOR AC 7-61, 64 & 66.

PUMP ROOM FIS-7 LOCATED IN FIST CUSTOM ROOM AT BAGGAGE CLAIM LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS. FOR AC 7-TA

PUMP ROOM #3 LOCATED AT MEZZANINE LEVEL (ACCESS VIA ROOM 324 LEVEL 3) ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT - AIRSIDE OPERATIONS ACCESS MUST MEET LAW AND TSA REQUIREMENTS. FRO AC-86 & 87

PUMP ROOM #1 2E67 AT BAGGAGE CLAIM LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS

FAN ROOM (NO ROOM NUMBER) FOR AH 7-95 (ACCESS VIA LEVEL 2 DOOR 309) AT LEVEL 3 ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS

FAN ROOM 292A LOCATED AT MEZZANINE LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT - AIRSIDE OPERATIONS ACCESS MUST MEET LAW AND TSA REQUIREMENTS. FOR AC 80, 81, 82, 83, 84 & 85

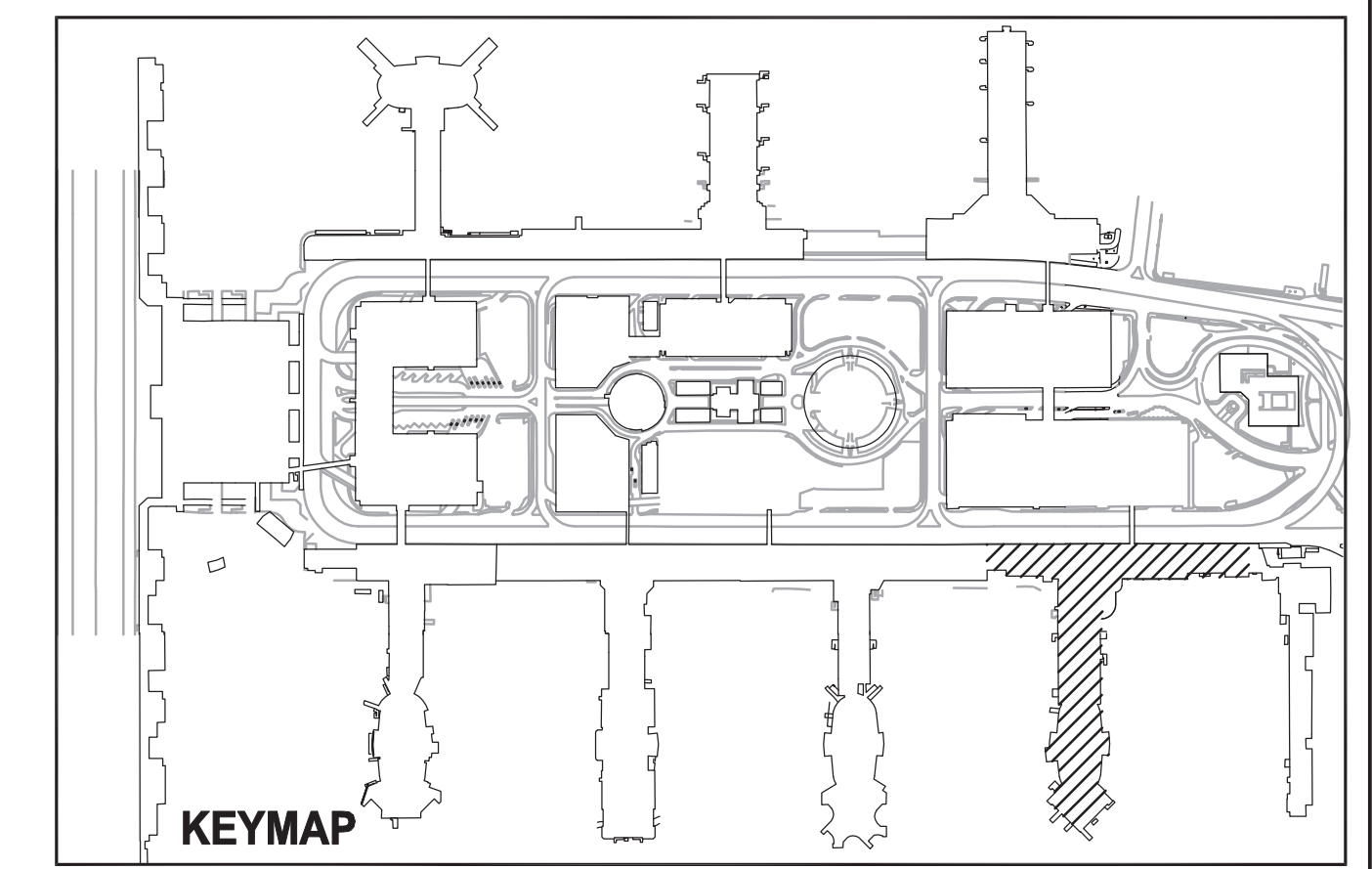
FAN ROOM 211B LOCATED AT BAGGAGE CLAIM LEVEL ROOM LOCATED ON LANDSIDE AND ACCESSIBLE WITHOUT HAVING TO PASS THROUGH TSA SECURITY CHECK POINT FOR AC 7-92 & 7-93

FAN ROOM LOCATED AT TICKETING LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS

FAN ROOM (NO ROOM NUMBER - ACROSS FROM ROOM 101A) LOCATED AT BAGGAGE CLAIM LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS. FOR AC 7-94.

MPOE ROOM T420 LOCATED AT BAGGAGE CLAIM LEVEL ROOM LOCATED ON AIRSIDE OF TSA SECURITY CHECK POINT AND CUSTOMS - AIRSIDE OPERATIONS ACCESS MUST MEET LAW, TSA, AND CUSTOM REQUIREMENTS

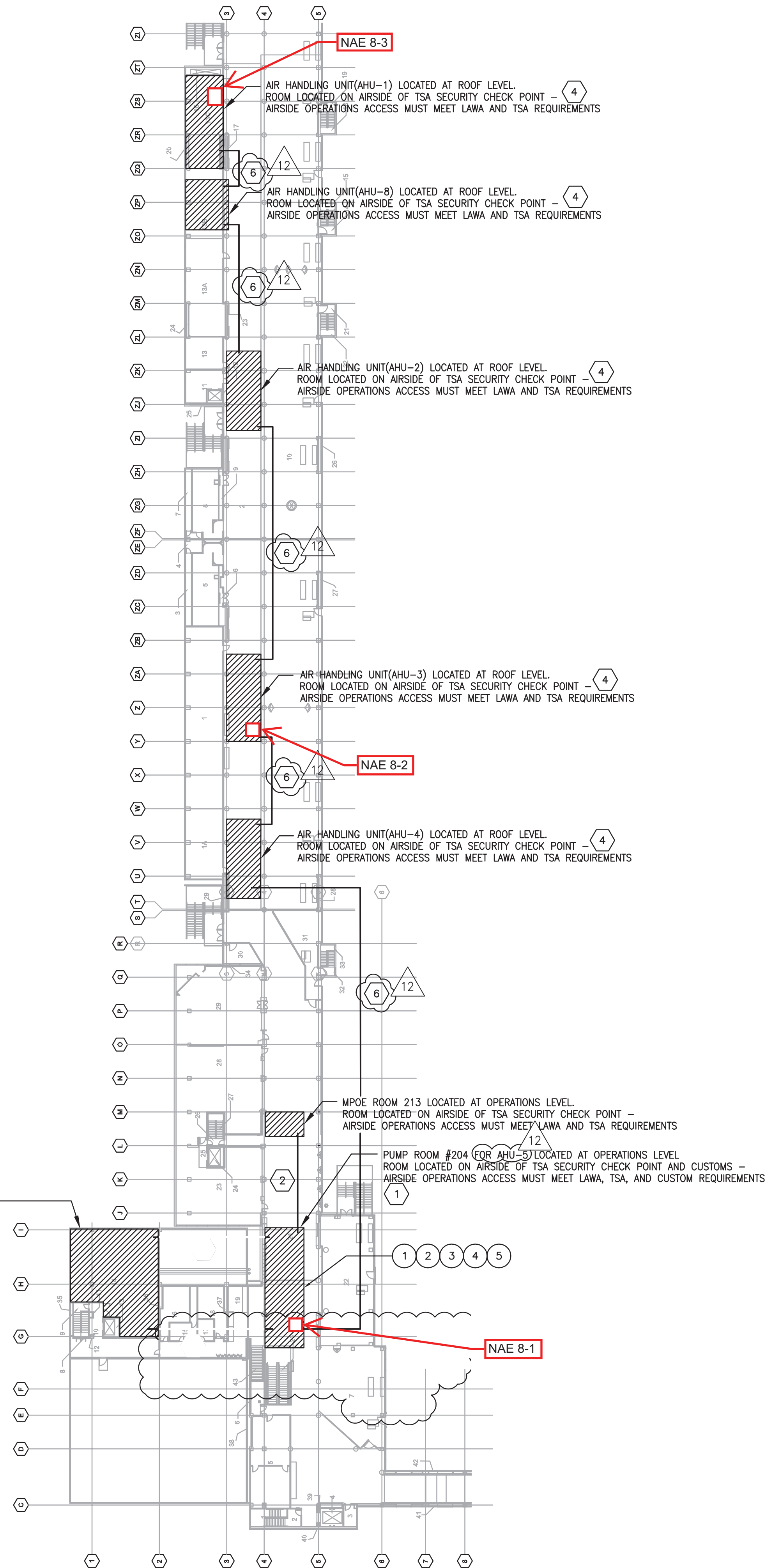
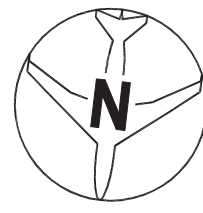
NOTE: THE DRAWINGS DEPICT PROJECT CRITERIA AND A PRELIMINARY DESIGN CONCEPT FOR DEVELOPMENT BY THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR. IT IS INTENDED THAT THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR BEGIN THEIR DESIGN EFFORTS FROM THIS INITIAL BASIS. AS SUCH, THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING ALL EXISTING CONDITIONS AND DEVELOPING THE FINAL DESIGN IN CONFORMANCE WITH PROJECT CRITERIA, CONTRACT REQUIREMENTS AND APPLICABLE CODES AND ORDINANCES. LAW PROVIDES NO WARRANTY, EXPRESSED OR IMPLIED, THAT THE PRELIMINARY DESIGN CONCEPTS SHOWN HEREIN WILL MEET PROJECT REQUIREMENTS WITHOUT MODIFICATION, INCLUDING WITHOUT LIMITATION ANY FINANCIAL, TECHNICAL OR PERFORMANCE REQUIREMENTS OF ANY KIND, SUCH OBLIGATION TO MEET PROJECT REQUIREMENTS RESTING SOLELY WITH PRIME DESIGN BUILD PROPOSER/CONTRACTOR.



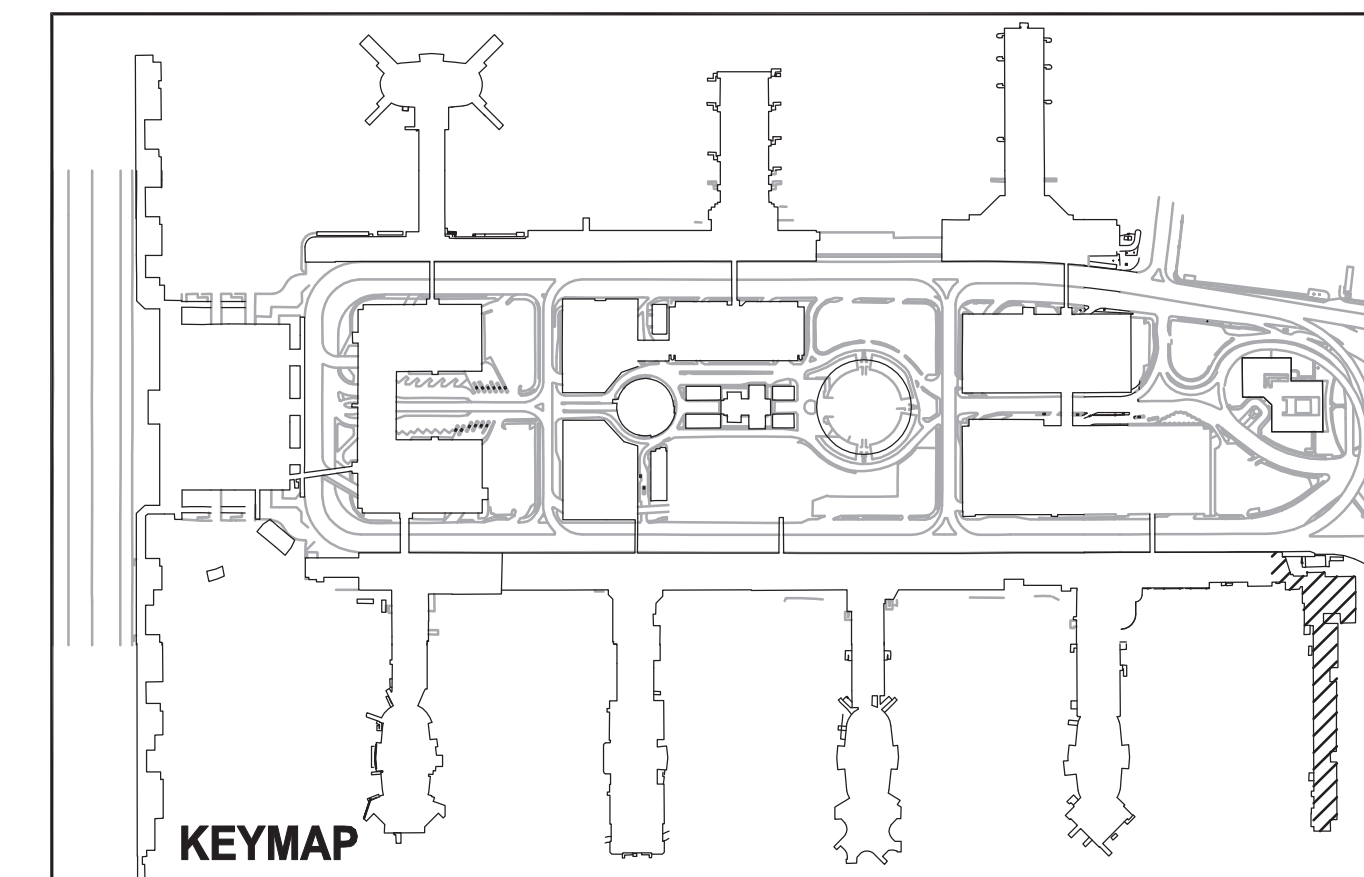
ENGINEER STAMP:			
NO.	DESCRIPTION	CHK'D	APP'D
	Terminal Pump Room Upgrade		08/02/12
	ADDENDUM 12		06/18/10
	ADDENDUM 9		04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL		10/06/09

Hatch Mott MacDonald		SYSKA HENNESSY GROUP	
Los Angeles World Airports			
CTA CENTRAL UTILITY PLANT REPLACEMENT			
TERMINAL 7			
MECHANICAL SITE PLAN			
LOS ANGELES INTERNATIONAL AIRPORT			
SUBMITTED BY		APPROVED BY	
ASST. CHIEF AIRPORTS ENGINEER		CHIEF AIRPORTS ENGINEER	
DRAWN	AM	CHECKED	WL
PLAN SET NUMBER		SHEET	
		M807	
GRID LOCATIONS		SCALE	DATE
TO		1"=40'-0"	10/06/09
		DWG. NO.	FILE NAME M807
		20090033	

P:\A\MEP_W\LEC08000\Drawings\Sheet\M807 TERMINAL 7 MECHANICAL SITE PLAN.dwg Jun 17, 2010 - 2:57pm



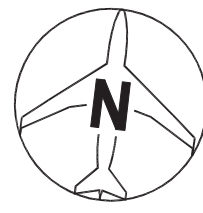
- NAE Panel
- 8-1: Pump Rm 204
- 8-2: Roof AHU-3
- 8-3: Roof AHU-1



ENGINEER STAMP:				
NO.	DESCRIPTION	CHK'D	APP'D	DATE
	Terminal Pump Room Upgrade			08/02/12
	ADDENDUM 12			06/18/10
	ADDENDUM 9			04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL			10/06/09

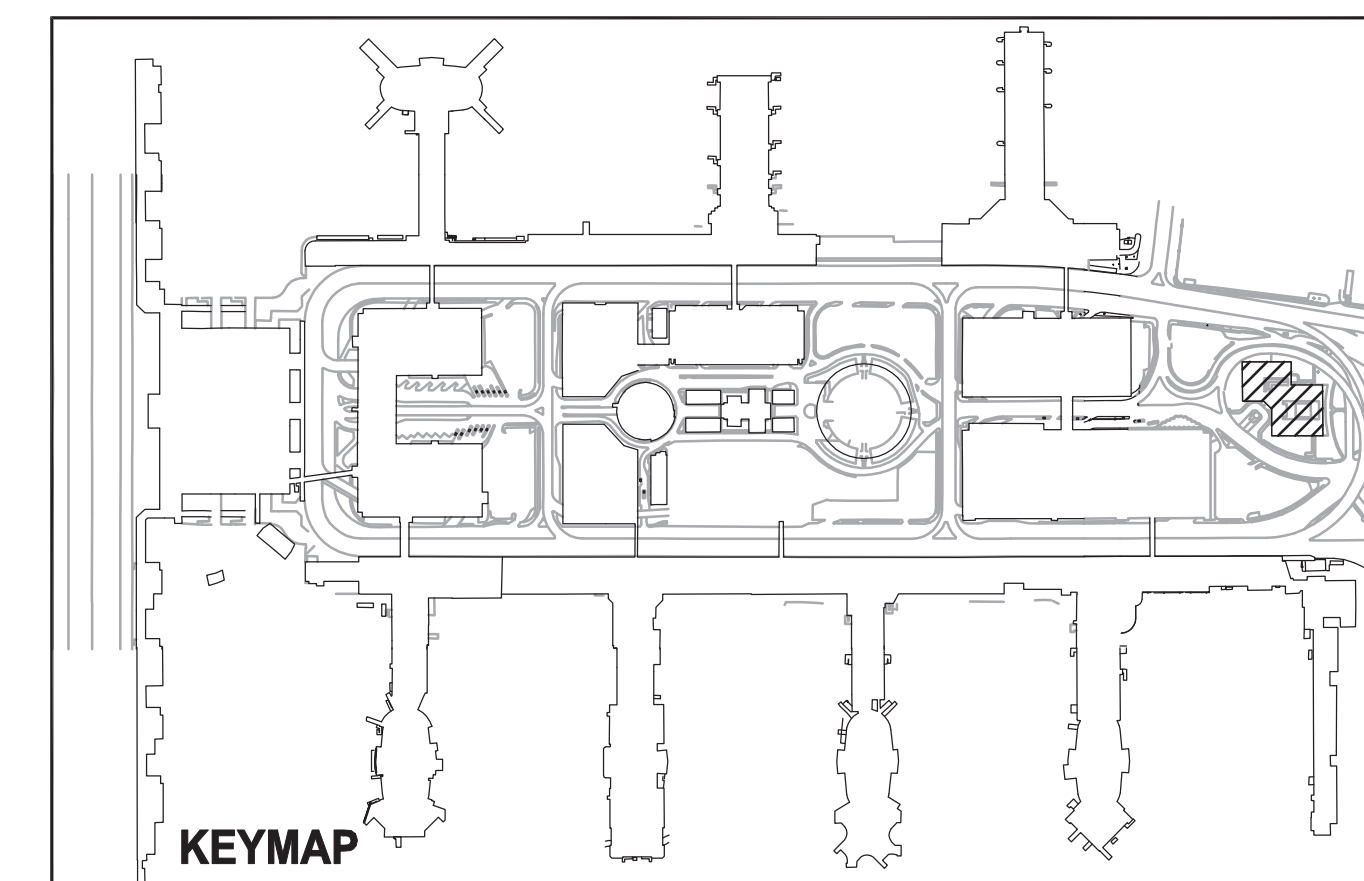
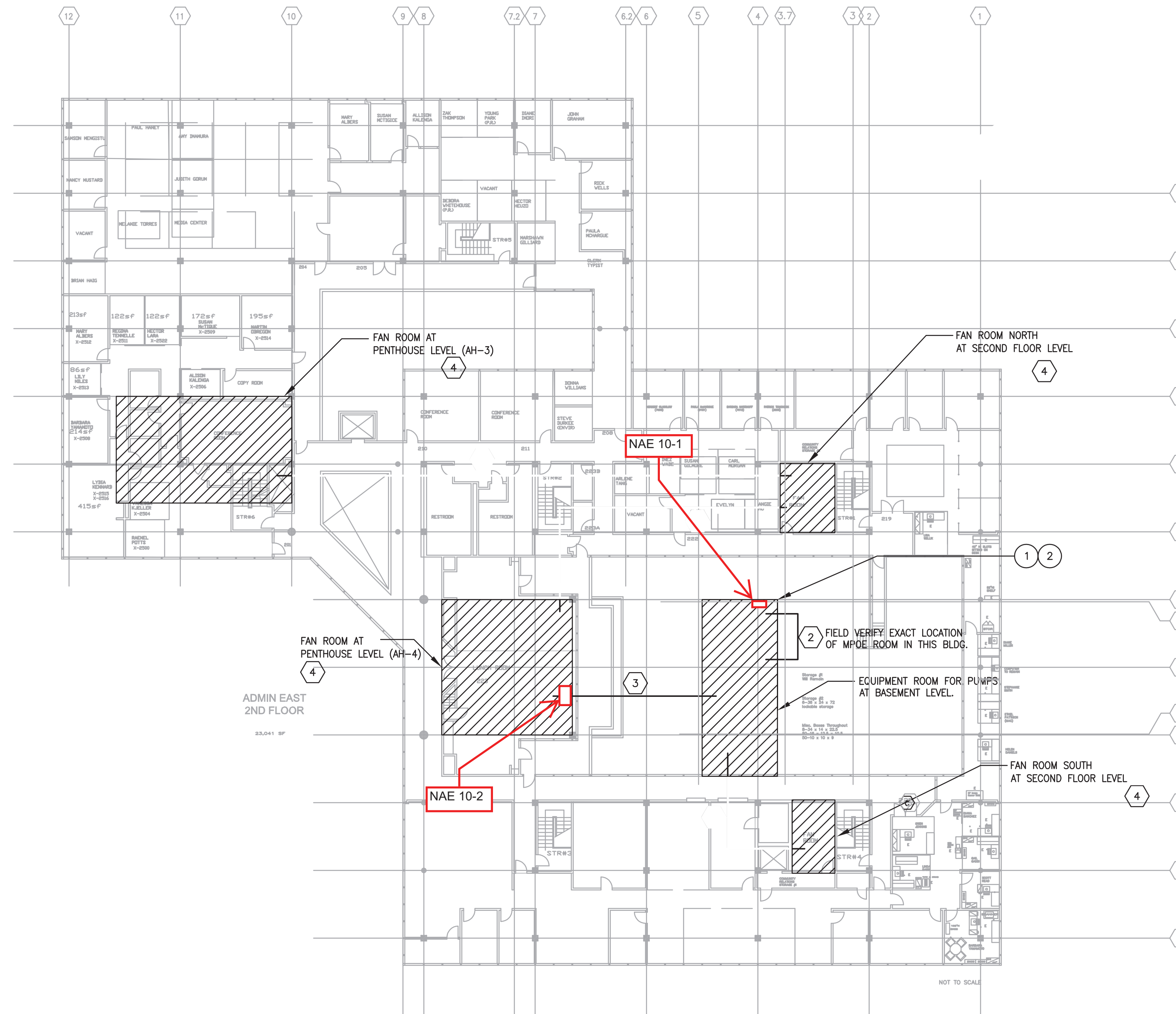
Los Angeles World Airports CTA CENTRAL UTILITY PLANT REPLACEMENT TERMINAL 8 MECHANICAL SITE PLAN LOS ANGELES INTERNATIONAL AIRPORT			
SUBMITTED BY		APPROVED BY	
ASST. CHIEF AIRPORTS ENGINEER	CHIEF AIRPORTS ENGINEER	PLAN SET NUMBER	SHEET
DRAWN AM	CHECKED BS/IV		M808
GRID LOCATIONS	SCALE 1"=40'-0"	DATE 10/06/09	DWG. NO. 20090033
TO	FILE NAME M808		

NOTE: THE DRAWINGS DEPICT PROJECT CRITERIA AND A PRELIMINARY DESIGN CONCEPT FOR DEVELOPMENT BY THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR. IT IS INTENDED THAT THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR BEGIN THEIR DESIGN EFFORTS FROM THIS INITIAL BASIS. AS SUCH, THE PRIME DESIGN BUILD PROPOSER/CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING ALL EXISTING CONDITIONS AND DEVELOPING THE FINAL DESIGN IN CONFORMANCE WITH PROJECT CRITERIA, CONTRACT REQUIREMENTS AND APPLICABLE CODES AND ORDINANCES. LAWA PROVIDES NO WARRANTY, EXPRESSED OR IMPLIED, THAT THE PRELIMINARY DESIGN CONCEPTS SHOWN HEREIN WILL MEET PROJECT REQUIREMENTS WITHOUT MODIFICATION, INCLUDING WITHOUT LIMITATION ANY FINANCIAL, TECHNICAL OR PERFORMANCE REQUIREMENTS OF ANY KIND, SUCH OBLIGATION TO MEET PROJECT REQUIREMENTS RESTING SOLELY WITH PRIME DESIGN BUILD PROPOSER/CONTRACTOR.



□ NAE Panel

10-1: Pump Rm
10-2: Mech Rm East Penthouse



ENGINEER STAMP:				
NO.	DESCRIPTION	CHK'D	APP'D	DATE
	Terminal Pump Room Upgrade			08/02/12
	ADDENDUM 12			06/18/10
	ADDENDUM 9			04/13/10
	ISSUED FOR DESIGN BUILD PROPOSAL			10/06/09

Los Angeles World Airports CTA CENTRAL UTILITY PLANT REPLACEMENT ADMIN EAST BUILDING MECHANICAL SITE PLAN LOS ANGELES INTERNATIONAL AIRPORT			
SUBMITTED BY		APPROVED BY	
ASST. CHIEF AIRPORTS ENGINEER		CHIEF AIRPORTS ENGINEER	
DRAWN	AM	CHECKED	WL
PLAN SET NUMBER		SHEET	
		M810	
GRID LOCATIONS		SCALE	DWG. NO.
TO		1"=20'-0"	20090033
		DATE	FILE NAME
		10/06/09	M810

