CHICAGO - O'HARE INTERNATIONAL AIRPORT



LOCATION MAP

CDA
Chicago Department of Aviation

CITY OF CHICAGO
LORI E. LIGHTFOOT
MAYOR

CITY OF CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

ISSUED BY:
DEPARTMENT OF PROCUREMENT SERVICES
AILEEN VELAZQUEZ, CHIEF PROCUREMENT OFFICER

O'HARE INTERNATIONAL AIRPORT

Terminal 3 Improvements and Supplemental Bagroom

PROJECT DESCRIPTION:
The Terminal 3 Improvements and Supplemental Bagroom project includes both the renovation of an existing facility and a minor building addition. A new supplemental bagroom will be located on the lower level east end displacing an existing bag claim area to the west end. A portion of the existing vehicle service road will be enclosed at the lower level.On the upper level, a building expansion on the southeast side of Terminal 3 will provide space to expand existing holdrooms, improve circulation, and relocate an airline club. Security Checkpoint lanes and restrooms will be reconfigured and consolidated across the headhouse displacing other programs. The existing east mezzanine will be shelled out for a future tenant improvement project. New vertical circulation will be provided to respond to program modifications

CHICAGO DEPARTMENT OF AVIATION
PROJECT NO. H1220.23-00

WBS CODE: C.O.C.A.002.01

StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

60% DESIGN - VOLUME 2

03/24/2023

3/22/2023 5:32:49 PM

VOLUME 1

GENERAL

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
G0.10	COVER SHEET - VOLUME 1	X	X	X	X
G0.11	CONTACT INFORMATION	X	X	X	X
G1.10	SHEET INDEX	X	X	X	X
G1.11	SHEET INDEX			X	X
G1.12	SHEET INDEX			X	X
G2.01	GENERAL NOTES			X	X
G2.02	GENERAL NOTES			X	X
G3.4.01	PROGRAM PLAN - BASEMENT LEVEL		X		X
G3.4.02	PROGRAM PLAN - LOWER LEVEL		X		X
G3.4.03	PROGRAM PLAN - UPPER LEVEL		X		X
G3.4.04	PROGRAM PLAN - MEZZANINE LEVEL		X		X
G4.01	CODE ANALYSIS		X	X	X
G5.1.01	FIRE LIFE SAFETY PLAN - BASEMENT LEVEL		X	X	X
G5.1.02	FIRE LIFE SAFETY PLAN - LOWER LEVEL		X	X	X
G5.1.03	FIRE LIFE SAFETY PLAN - UPPER LEVEL		X	X	X
G5.1.04	FIRE LIFE SAFETY PLAN - MEZZANINE LEVEL		X	X	X
G5.2.01.01	BASEMENT LEVEL LIFE SAFETY PLAN		X		X
G5.2.02.01	LOWER LEVEL LIFE SAFETY PLAN-EAST		X		X
G5.2.02.02	LOWER LEVEL LIFE SAFETY PLAN- WEST		X		X
G5.2.03.01	UPPER LEVEL LIFE SAFETY PLAN - EAST		X		X
G5.2.03.02	UPPER LEVEL LIFE SAFETY PLAN - CENTER		X		X
G5.2.03.03	UPPER LEVEL LIFE SAFETY PLAN - WEST		X		X
G5.2.04.01	MEZZANINE LEVEL LIFE SAFETY PLAN - EAST		X		X
G6.01	ACCESSIBILITY REQUIREMENTS		X	X	X
G7.01	RENDERINGS	X	X	X	X

CIVIL

C0-0.01	CIVIL ABBREVIATIONS			X	X
C0-0.02	CIVIL LEGEND			X	X
C0-0.03	CIVIL GENERAL NOTES			X	X
C0-0.04	CIVIL GENERAL NOTES			X	X
CX-100	OVERALL EXISTING CONDITIONS PLAN		X	X	X
CX-101	EXISTING CONDITIONS PLAN		X	X	X
CX-102	EXISTING CONDITIONS PLAN			X	X
CX-103	EXISTING CONDITIONS PLAN			X	X
CX-190	EXISTING CONDITIONS PLAN - UPPER LEVEL				X
CD-100	OVERALL CIVIL DEMOLITION PLAN		X	X	X
CD-101	CIVIL DEMOLITION PLAN		X	X	X
CD-102	CIVIL DEMOLITION PLAN		X	X	X
CD-103	CIVIL DEMOLITION PLAN		X	X	X
CD-190	CIVIL DEMOLITION PLAN - UPPER LEVEL				X
C-100	OVERALL SITE PLAN		X	X	X
C-101	SITE PLAN			X	X
C-102	SITE PLAN		X	X	X
C-103	SITE PLAN		X	X	X
C-190	CIVIL SITE PLAN - UPPER LEVEL				X
C-300	TYPICAL SECTIONS			X	X
C-301	PAVEMENT DETAILS			X	X
C-302	PAVEMENT DETAILS				X
C-500	STRUCTURAL DETAILS			X	X
CGR-100	OVERALL CIVIL GRADING SITE PLAN			X	X
CGR-101	CIVIL GRADING PLAN			X	X
CGR-102	CIVIL GRADING PLAN			X	X
CGR-103	CIVIL GRADING PLAN			X	X
CGR-190	CIVIL GRADING PLAN - UPPER LEVEL				X
CDR-100	OVERALL DRAINAGE AND UNDERDRAIN PLAN		X	X	X
CDR-101	DRAINAGE AND UNDERDRAIN PLAN		X	X	X
CDR-102	DRAINAGE AND UNDERDRAIN PLAN			X	X
CDR-103	DRAINAGE AND UNDERDRAIN PLAN			X	X
CDR-200	DRAINAGE PROFILES				X
CDR-500	DRAINAGE AND UNDERDRAIN DETAILS				X
CDR-501	DRAINAGE AND UNDERDRAIN DETAILS			X	X
CDR-502	DRAINAGE AND UNDERDRAIN DETAILS			X	X
CDR-503	DRAINAGE AND UNDERDRAIN DETAILS			X	X
CU-100	OVERALL CIVIL UTILITY LAYOUT PLAN		X	X	X
CU-101	CIVIL UTILITY LAYOUT PLAN		X	X	X
CU-102	CIVIL UTILITY LAYOUT PLAN			X	X
CU-103	CIVIL UTILITY LAYOUT PLAN			X	X
CU-200	UTILITY PROFILES				X
CU-500	CIVIL UTILITY DETAILS			X	X
CU-501	CIVIL UTILITY DETAILS			X	X
CU-502	CIVIL UTILITY DETAILS			X	X
CU-503	CIVIL UTILITY DETAILS			X	X
CU-504	CIVIL UTILITY DETAILS			X	X
CU-505	CIVIL UTILITY DETAILS			X	X
CU-506	CIVIL UTILITY DETAILS			X	X
CU-507	CIVIL UTILITY DETAILS			X	X

AIRSIDE PLANNING

CA1.0.05	EXISTING AIRCRAFT PARKING PLAN - GATES K1 & L2A		X	X	X
CA2.0.05	NEW AIRCRAFT PARKING PLAN - GATES K1 & L2A		X	X	X

STRUCTURAL

NUMBER	NAME	PRICING 5/14/2021	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
SD1.1.01	OVERALL DEMOLITION PLAN - BASEMENT LEVEL	X	X	X	X
SD1.1.02	OVERALL DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
SD1.1.03	OVERALL DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
SD1.1.04	OVERALL DEMOLITION PLAN - MEZZANINE LEVEL			X	X
SD1.1.05	OVERALL DEMOLITION PLAN - ROOF LEVEL	X	X	X	X
SD2.1.01.2H	DEMOLITION PLAN - BASEMENT LEVEL - AREA 2H			X	X
SD2.1.01.3H	DEMOLITION PLAN - BASEMENT LEVEL - AREA 3H			X	X
SD2.1.02.2F	DEMOLITION PLAN - LOWER LEVEL - AREA 2F			X	X
SD2.1.02.2G	DEMOLITION PLAN - LOWER LEVEL - AREA 2G				X
SD2.1.02.2H	DEMOLITION PLAN - LOWER LEVEL - AREA 2H			X	X
SD2.1.02.3H	DEMOLITION PLAN - LOWER LEVEL - AREA 3H			X	X
SD2.1.03.2F	DEMOLITION PLAN - UPPER LEVEL - AREA 2F			X	X
SD2.1.03.2G	DEMOLITION PLAN - UPPER LEVEL - AREA 2G			X	X
SD2.1.03.2H	DEMOLITION PLAN - UPPER LEVEL - AREA 2H			X	X
SD2.1.04.2G	DEMOLITION PLAN - MEZZANINE LEVEL - AREA 2G			X	X
SD2.1.04.2H	DEMOLITION PLAN - MEZZANINE LEVEL - AREA 2H			X	X
SD2.1.05.2F	DEMOLITION PLAN - ROOF LEVEL - AREA 2F			X	X
SD2.1.05.2H	DEMOLITION PLAN - ROOF LEVEL - AREA 2H			X	X
S0.1.01	ABBREVIATIONS AND LEGENDS	X	X	X	X
S0.1.03	GENERAL NOTES	X	X	X	X
S0.1.04	GENERAL NOTES	X	X	X	X
S0.3.00	LOAD MAPS	X	X	X	X
S1.1.01	OVERALL FRAMING PLAN - BASEMENT LEVEL			X	X
S1.1.02	OVERALL FRAMING PLAN - LOWER LEVEL	X	X	X	X
S1.1.03	OVERALL FRAMING PLAN - UPPER LEVEL	X	X	X	X
S1.1.04	OVERALL FRAMING PLAN - MEZZANINE LEVEL			X	X
S1.1.05	OVERALL FRAMING PLAN - ROOF LEVEL	X	X	X	X
S2.1.01.1G	FRAMING PLAN - BASEMENT LEVEL - AREA 1G			X	X
S2.1.01.1H	FRAMING PLAN - BASEMENT LEVEL - AREA 1H			X	X
S2.1.01.2H	FRAMING PLAN - BASEMENT LEVEL - AREA 2H				X
S2.1.01.3H	FRAMING PLAN - BASEMENT LEVEL - AREA 3H			X	X
S2.1.02.2F	FRAMING PLAN - LOWER LEVEL - AREA 2F	X	X	X	X
S2.1.02.2G	FRAMING PLAN - LOWER LEVEL - AREA 2G	X	X	X	X
S2.1.02.2H	FRAMING PLAN - LOWER LEVEL- AREA 2H	X	X	X	X
S2.1.02.3G	FRAMING PLAN - LOWER LEVEL - AREA 3G	X	X	X	X
S2.1.02.3H	FRAMING PLAN - LOWER LEVEL - AREA 3H	X	X	X	X
S2.1.03.2F	FRAMING PLAN - UPPER LEVEL - AREA 2F	X	X	X	X
S2.1.03.2G	FRAMING PLAN - UPPER LEVEL - AREA 2G	X	X	X	X
S2.1.03.2H	FRAMING PLAN - UPPER LEVEL - AREA 2H	X	X	X	X
S2.1.03.3G	FRAMING PLAN - UPPER LEVEL - AREA 3G	X	X	X	X
S2.1.03.3H	FRAMING PLAN - UPPER LEVEL - AREA 3H	X	X	X	X
S2.1.04.2F	FRAMING PLAN - MEZZANINE LEVEL - AREA 2F			X	X
S2.1.04.2G	FRAMING PLAN - MEZZANINE LEVEL - AREA 2G			X	X
S2.1.04.2H	FRAMING PLAN - MEZZANINE LEVEL - AREA 2H			X	X
S2.1.05.2F	FRAMING PLAN - ROOF - AREA 2F	X	X	X	X
S2.1.05.2G	FRAMING PLAN - ROOF - AREA 2G	X	X	X	X
S2.1.05.2H	FRAMING PLAN - ROOF - AREA 2H	X	X	X	X
S2.1.05.3G	FRAMING PLAN - ROOF - AREA 3G	X	X	X	X
S2.1.05.3H	FRAMING PLAN - ROOF - AREA 3H	X	X	X	X
S5.1.01	BUILDING SECTIONS	X	X	X	X
S6.2.02	FRAMING PLAN - ELEVATOR TO BASEMENT ALTERNATE				X
S8.1.01	TYPICAL DRILLED SHAFT DETAILS	X	X	X	X
S8.1.02	TYPICAL FOUNDATION DETAILS AND SCHEDULES			X	X
S8.1.03	TYPICAL GRADE BEAM DETAILS			X	X
S8.1.04	TYPICAL GRADE BEAM DETAILS			X	X
S8.3.01	TYPICAL CMU NON-LOAD BEARING WALL DETAILS			X	X
S8.3.02	TYPICAL CMU NON-LOAD BEARING WALL DETAILS			X	X
S8.4.01	TYPICAL STEEL DETAILS	X	X	X	X
S8.4.02	TYPICAL STEEL DETAILS	X	X	X	X
S8.4.03	TYPICAL STEEL DECK DETAILS	X	X	X	X
S8.4.04	TYPICAL STEEL DECK DETAILS	X	X	X	X

ARCHITECTURAL - DEMOLITION

NUMBER	NAME	PRICING	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
AD1.1.01	OVERALL DEMOLITION PLAN - BASEMENT LEVEL	X	X	X	X
AD1.1.02	OVERALL DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
AD1.1.03	OVERALL DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
AD1.1.04	OVERALL DEMOLITION PLAN - MEZZANINE LEVEL	X	X	X	X
AD1.1.05	OVERALL DEMOLITION PLAN - ROOF LEVEL	X	X	X	X
AD2.1.01.1G	DEMOLITION PLAN BASEMENT LEVEL PLAN - AREA 1G	X	X	X	X
AD2.1.01.1H	DEMOLITION PLAN BASEMENT LEVEL PLAN - AREA 1H	X	X	X	X
AD2.1.01.2G	DEMOLITION PLAN BASEMENT LEVEL PLAN - AREA 2G	X	X	X	X
AD2.1.01.2H	DEMOLITION PLAN BASEMENT LEVEL PLAN - AREA 2H	X	X	X	X
AD2.1.01.3F	DEMOLITION PLAN BASEMENT LEVEL PLAN - AREA 3F	X	X	X	X
AD2.1.02.2D	DEMOLITION PLAN LOWER LEVEL PLAN - AREA 2D	X	X	X	X
AD2.1.02.2E	DEMOLITION PLAN LOWER LEVEL PLAN - AREA 2E	X	X	X	X
AD2.1.02.2F	DEMOLITION PLAN LOWER LEVEL PLAN - AREA 2F	X	X	X	X
AD2.1.02.2G	DEMOLITION PLAN LOWER LEVEL PLAN - AREA 2G	X	X	X	X
AD2.1.02.2H	DEMOLITION PLAN LOWER LEVEL PLAN - AREA 2H	X	X	X	X
AD2.1.02.3G	DEMOLITION PLAN LOWER LEVEL PLAN - AREA 3G	X	X	X	X
AD2.1.02.3H	DEMOLITION PLAN LOWER LEVEL PLAN - AREA 3H	X	X	X	X
AD2.1.03.2D	DEMOLITION PLAN UPPER LEVEL PLAN - AREA 2D	X	X	X	X
AD2.1.03.2E	DEMOLITION PLAN UPPER LEVEL PLAN - AREA 2E	X	X	X	X
AD2.1.03.2F	DEMOLITION PLAN UPPER LEVEL PLAN - AREA 2F	X	X	X	X
AD2.1.03.2G	DEMOLITION PLAN UPPER LEVEL PLAN - AREA 2G	X	X	X	X
AD2.1.03.2H	DEMOLITION PLAN UPPER LEVEL PLAN - AREA 2H	X	X	X	X
AD2.1.03.3G	DEMOLITION PLAN UPPER LEVEL PLAN - AREA 3G	X	X	X	X
AD2.1.03.3H	DEMOLITION PLAN UPPER LEVEL PLAN - AREA 3H	X	X	X	X
AD2.1.04.2G	DEMOLITION PLAN MEZZANINE LEVEL PLAN - AREA 2G	X	X	X	X
AD2.1.04.2H	DEMOLITION PLAN MEZZANINE LEVEL PLAN - AREA 2H	X	X	X	X
AD2.1.05.2H	DEMOLITION PLAN ROOF LEVEL PLAN - AREA 2H	X	X	X	X
AD2.2.01.1G	DEMOLITION BASEMENT LEVEL REFLECTED CEILING PLAN - AREA 1G	X	X	X	X
AD2.2.01.2G	DEMOLITION BASEMENT LEVEL REFLECTED CEILING PLAN - AREA 2G	X	X	X	X
AD2.2.01.2H	DEMOLITION BASEMENT LEVEL REFLECTED CEILING PLAN - AREA 2H	X	X	X	X
AD2.2.02.2D	DEMOLITION LOWER LEVEL REFLECTED CEILING PLAN - AREA 2D	X	X	X	X
AD2.2.02.2E	DEMOLITION LOWER LEVEL REFLECTED CEILING PLAN - AREA 2E	X	X	X	X
AD2.2.02.2F	DEMOLITION LOWER LEVEL REFLECTED CEILING PLAN - AREA 2F	X	X	X	X
AD2.2.02.2G	DEMOLITION LOWER LEVEL REFLECTED CEILING PLAN - AREA 2G	X	X	X	X
AD2.2.02.2H	DEMOLITION LOWER LEVEL REFLECTED CEILING PLAN - AREA 2H	X	X	X	X
AD2.2.02.3H	DEMOLITION LOWER LEVEL REFLECTED CEILING PLAN - AREA 3H	X	X	X	X
AD2.2.03.2D	DEMOLITION UPPER LEVEL REFLECTED CEILING PLAN - AREA 2D	X	X	X	X
AD2.2.03.2E	DEMOLITION UPPER LEVEL REFLECTED CEILING PLAN - AREA 2E	X	X	X	X
AD2.2.03.2F	DEMOLITION UPPER LEVEL REFLECTED CEILING PLAN - AREA 2F	X	X	X	X
AD2.2.03.2G	DEMOLITION UPPER LEVEL REFLECTED CEILING PLAN - AREA 2G	X	X	X	X
AD2.2.03.2H	DEMOLITION UPPER LEVEL REFLECTED CEILING PLAN - AREA 2H	X	X	X	X
AD2.2.03.3H	DEMOLITION UPPER LEVEL REFLECTED CEILING PLAN - AREA 3H	X	X	X	X
AD2.2.04.2G	DEMOLITION MEZZANINE LEVEL REFLECTED CEILING PLAN - AREA 2G	X	X	X	X
AD2.2.04.2H	DEMOLITION MEZZANINE LEVEL REFLECTED CEILING PLAN - AREA 2H	X	X	X	X
AD5.3.100	DEMOLITION SECTON	X	X	X	X

ARCHITECTURAL - SITE

AS.01	SITE PLAN - TERMINAL 3 - LOWER LEVEL	X	X	X	X
AS.02	SITE PLAN - TERMINAL 3 - UPPER LEVEL	X	X	X	X

ARCHITECTURAL

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
A0.01	ABBREVIATIONS & GRAPHIC LEGENDS	X	X	X	X
A1.1.01	OVERALL PLAN - BASEMENT LEVEL	X	X	X	X
A1.1.02	OVERALL PLAN - LOWER LEVEL	X	X	X	X
A1.1.03	OVERALL PLAN - UPPER LEVEL	X	X	X	X
A1.1.04	OVERALL PLAN - MEZZANINE LEVEL	X	X	X	X
A1.1.05	OVERALL PLAN - ROOF LEVEL	X	X	X	X
A2.1.01.1G	BASEMENT LEVEL PLAN - AREA 1G	X	X	X	X
A2.1.01.1H	BASEMENT LEVEL PLAN - AREA 1H		X	X	X
A2.1.01.2G	BASEMENT LEVEL PLAN - AREA 2G	X	X	X	X
A2.1.01.2H	BASEMENT LEVEL PLAN - AREA 2H	X	X	X	X
A2.1.02.2D	LOWER LEVEL PLAN - AREA 2D	X	X	X	X
A2.1.02.2E	LOWER LEVEL PLAN - AREA 2E	X	X	X	X
A2.1.02.2F	LOWER LEVEL PLAN - AREA 2F		X	X	X
A2.1.02.2G	LOWER LEVEL PLAN - AREA 2G	X	X	X	X
A2.1.02.2H	LOWER LEVEL PLAN - AREA 2H	X	X	X	X
A2.1.02.3F	LOWER LEVEL PLAN - AREA 3F	X	X	X	X
A2.1.02.3G	LOWER LEVEL PLAN - AREA 3G	X	X	X	X
A2.1.02.3H	LOWER LEVEL PLAN - AREA 3H	X	X	X	X
A2.1.03.2D	UPPER LEVEL PLAN - AREA 2D			X	X
A2.1.03.2E	UPPER LEVEL PLAN - AREA 2E			X	X
A2.1.03.2F	UPPER LEVEL PLAN - AREA 2F	X	X	X	X
A2.1.03.2G	UPPER LEVEL PLAN - AREA 2G	X	X	X	X
A2.1.03.2H	UPPER LEVEL PLAN - AREA 2H	X	X	X	X
A2.1.03.3G	UPPER LEVEL PLAN - AREA 3G	X	X	X	X
A2.1.03.3H	UPPER LEVEL PLAN - AREA 3H	X	X	X	X
A2.1.04.2G	MEZZANINE LEVEL PLAN - AREA 2G	X	X	X	X
A2.1.04.2H	MEZZANINE LEVEL PLAN - AREA 2H	X	X	X	X
A2.1.05.2F	ROOF LEVEL PLAN - AREA 2F	X	X	X	X
A2.1.05.2G	ROOF LEVEL PLAN - AREA 2G	X	X	X	X
A2.1.05.2H	ROOF LEVEL PLAN - AREA 2H	X	X	X	X
A2.1.05.3G	ROOF LEVEL PLAN - AREA 3G	X	X	X	X
A2.1.05.3H	ROOF LEVEL PLAN - AREA 3H	X	X	X	X
A2.2.01.1G	BASEMENT LEVEL REFLECTED CEILING PLAN - AREA 1G			X	X
A2.2.01.2G	BASEMENT LEVEL REFLECTED CEILING PLAN - AREA 2G			X	X
A2.2.01.2H	BASEMENT LEVEL REFLECTED CEILING PLAN - AREA 2H			X	X
A2.2.02.2D	LOWER LEVEL REFLECTED CEILING PLAN - AREA 2D			X	X
A2.2.02.2E	LOWER LEVEL REFLECTED CEILING PLAN - AREA 2E			X	X
A2.2.02.2F	LOWER LEVEL REFLECTED CEILING PLAN - AREA 2F			X	X
A2.2.02.2G	LOWER LEVEL REFLECTED CEILING PLAN - AREA 2G			X	X
A2.2.02.2H	LOWER LEVEL REFLECTED CEILING PLAN - AREA 2H			X	X
A2.2.02.3G	LOWER LEVEL REFLECTED CEILING PLAN - AREA 3G			X	X
A2.2.02.3H	LOWER LEVEL REFLECTED CEILING PLAN - AREA 3H			X	X
A2.2.03.2D	UPPER LEVEL REFLECTED CEILING PLAN - AREA 2D			X	X
A2.2.03.2E	UPPER LEVEL REFLECTED CEILING PLAN - AREA 2E			X	X
A2.2.03.2F	UPPER LEVEL REFLECTED CEILING PLAN - AREA 2F			X	X
A2.2.03.2G	UPPER LEVEL REFLECTED CEILING PLAN - AREA 2G			X	X
A2.2.03.2H	UPPER LEVEL REFLECTED CEILING PLAN - AREA 2H			X	X
A2.2.03.3G	UPPER LEVEL REFLECTED CEILING PLAN - AREA 3G			X	X
A2.2.03.3H	UPPER LEVEL REFLECTED CEILING PLAN - AREA 3H			X	X
A2.2.04.2G	MEZZANINE LEVEL REFLECTED CEILING PLAN - AREA 2G			X	X
A2.2.04.2H	MEZZANINE LEVEL REFLECTED CEILING PLAN - AREA 2H			X	X
A2.3.01.1G	BASEMENT LEVEL FINISH PLAN - AREA 1G	X	X	X	X
A2.3.01.2G	BASEMENT LEVEL FINISH PLAN - AREA 2G	X	X	X	X
A2.3.01.2H	BASEMENT LEVEL FINISH PLAN - AREA 2H	X	X	X	X
A2.3.02.2D	LOWER LEVEL FINISH PLAN - AREA 2D	X	X	X	X
A2.3.02.2E	LOWER LEVEL FINISH PLAN - AREA 2E	X	X	X	X
A2.3.02.2F	LOWER LEVEL FINISH PLAN - AREA 2F	X	X	X	X
A2.3.02.2G	LOWER LEVEL FINISH PLAN - AREA 2G	X	X	X	X
A2.3.02.2H	LOWER LEVEL FINISH PLAN - AREA 2H	X	X	X	X
A2.3.02.3G	LOWER LEVEL FINISH PLAN - AREA 3G	X	X	X	X
A2.3.02.3H	LOWER LEVEL FINISH PLAN - AREA 3H	X	X	X	X
A2.3.03.2D	UPPER LEVEL FINISH PLAN - AREA 2D			X	X
A2.3.03.2E	UPPER LEVEL FINISH PLAN - AREA 2E			X	X
A2.3.03.2F	UPPER LEVEL FINISH PLAN - AREA 2F			X	X
A2.3.03.2G	UPPER LEVEL FINISH PLAN - AREA 2G	X	X	X	X
A2.3.03.2H	UPPER LEVEL FINISH PLAN - AREA 2H	X	X	X	X
A2.3.03.3G	UPPER LEVEL FINISH PLAN - AREA 3G	X	X	X	X
A2.3.03.3H	UPPER LEVEL FINISH PLAN - AREA 3H	X	X	X	X
A2.3.04.2G	MEZZANINE LEVEL FINISH PLAN - AREA 2G	X	X	X	X
A2.3.04.2H	MEZZANINE LEVEL FINISH PLAN - AREA 2H	X	X	X	X
A3.001	ENLARGED PLANS			X	X
A3.002	ENLARGED PLANS			X	X
A3.003	ENLARGED PLANS			X	X
A3.004	ENLARGED PLANS			X	X
A4.1.01	EXTERIOR MATRICES		X	X	X
A4.1.02	EXTERIOR VERTICAL AND HORIZONTAL ASSEMBLIES		X	X	X
A4.2.101	ENLARGED EXTERIOR ELEVATIONS	X	X	X	X
A4.2.102	ENLARGED EXTERIOR ELEVATIONS	X	X	X	X
A4.2.103	ENLARGED EXTERIOR ELEVATIONS	X	X	X	X
A4.3.000	INTERIOR MATERIAL MATRIX, RESTROOM ACCESSORY SCHEDULE & MOUNTING HEIGHTS	X	X	X	X
A4.3.101	OVERALL INTERIOR ELEVATIONS	X	X	X	X
A4.3.102	OVERALL INTERIOR ELEVATIONS	X	X	X	X
A4.3.103	OVERALL INTERIOR ELEVATIONS		X	X	X
A4.3.104	OVERALL INTERIOR ELEVATIONS			X	X
A4.3.105	OVERALL INTERIOR ELEVATIONS			X	X
A4.3.106	OVERALL INTERIOR ELEVATIONS			X	X
A4.3.107	OVERALL INTERIOR ELEVATIONS			X	X
A4.5.01	ENLARGED RESTROOM - MEZZANINE LEVEL - AREA 2G	X	X	X	X
A4.5.02	ENLARGED RESTROOM PLANS - UPPER LEVEL - AREA 2G	X	X	X	X
A4.5.03	ENLARGED RESTROOM ELEVATIONS - UPPER LEVEL - AREA 2G	X	X	X	X
A4.5.04	ENLARGED RESTROOM PLANS - UPPER LEVEL AREA - 2G	X	X	X	X
A4.5.05	ENLARGED RESTROOM ELEVATIONS - UPPER LEVEL - AREA 2G			X	X
A4.5.06	ENLARGED RESTROOM PLANS - UPPER LEVEL - AREA 2E	X	X	X	X
A4.5.07	ENLARGED RESTROOM ELEVATION - UPPER LEVEL - AREA 2E			X	X
A5.2.100	ENLARGED BUILDING SECTIONS	X	X	X	X
A5.2.101	ENLARGED BUILDING SECTIONS	X	X	X	X
A5.2.102	ENLARGED BUILDING SECTIONS			X	X
A6.1.01	VERTICAL CIRCULATION - STAIR		X	X	X
A6.1.02	VERTICAL CIRCULATION - STAIR		X	X	X
A6.1.91	STAIR DETAILS			X	X
A6.1.92	STAIR DETAILS			X	X
A6.2.01	VERTICAL CIRCULATION - ELEVATOR			X	X
A6.2.02	VERTICAL CIRCULATION - ELEVATOR	X	X	X	X
A6.2.91	ELEVATOR DETAILS			X	X
A6.3.01	VERTICAL CIRCULATION - ESCALATOR				X
A6.3.91	ESCALATOR DETAILS				X
A7.1.100	EXTERIOR PLAN DETAILS			X	X
A7.1.101	EXTERIOR PLAN DETAILS			X	X
A7.2.100	EXTERIOR SECTION DETAILS			X	X
A7.2.101	EXTERIOR SECTION DETAILS				X
A7.2.104	EXTERIOR SECTION DETAILS			X	X
A7.2.105	EXTERIOR SECTION DETAILS			X	X
A7.3.001	INTERIOR DETAILS			X	X
A7.3.200	INTERIOR DETAILS - WALL PANEL SYSTEMS			X	X
A7.3.400	INTERIOR DETAILS - SPECIALTY			X	X
A7.3.401	INTERIOR DETAILS - SPECIALTY				X
A7.3.500	INTERIOR DETAILS - COLUMN COVERS			X	X
A7.3.600	INTERIOR DETAILS - EXPANSION JOINTS			X	X
A7.3.700	INTERIOR DETAILS - FLOOR TRANSITIONS			X	X
A7.4.000	CEILING DETAILS - CEILING ASSEMBLIES			X	X
A7.4.002	CEILING DETAILS - TRANSITIONS			X	X
A7.4.003	CEILING DETAILS - TRANSITIONS				X
A7.4.004	CEILING DETAILS - SSCP			X	X
A7.7.001	SITE DETAILS			X	X
A8.1.01	PARTITION TYPES		X	X	X
A8.1.02	PARTITION TYPES - TRANSITIONS		X	X	X
A8.1.03	PARTITION TYPES - TRANSITIONS	X	X	X	X
A8.2.00	DOOR ELEVATIONS & FRAMES AND DOOR SCHEDULE		X	X	X
A8.2.01	DOOR DETAILS		X	X	X

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

SHEET INDEX

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VOLUME 2

SIGNAGE & WAYFINDING

NUMBER	NAME	PRICING 11/11/2022	ISSUE FOR BID	30% 11/30/2022	60% 03/24/2023
IG0.1.01	SIGN PLAN - UPPER LEVEL			X	X
IG0.1.02	SIGN PLAN - LOWER LEVEL			X	X
IG0.1.03	SIGN PLAN - BASEMENT			X	X
IG0.1.04	SIGN TYPE OVERVIEW - EXISTING & MASTER PLAN			X	X
IG0.1.05	SYMBOLS, COLOR, TERMINOLOGY			X	X
IG0.1.06	SIGN TYPE DETAILS AND CONSTRUCTION INFORMATION			X	X
IG0.1.07	SIGN TYPE DETAILS AND CONSTRUCTION INFROMATION			X	X
IG0.1.08	SIGN TYPE DETAILS AND CONSTRUCTION INFORMATION			X	X
IG0.1.09	SIGN CONSTRUCTION DETAILS			X	X
IG0.1.10	SIGN TYPE / MESSAGING CONFIRMATION - UPPER LEVEL LANDSIDE			X	X
IG0.1.11	SIGN TYPE / MESSAGING CONFIRMATION - UPPER LEVEL LANDSIDE			X	X
IG0.1.12	SIGN TYPE / MESSAGING CONFIRMATION - UPPER LEVEL AIRSIDE			X	X
IG0.1.13	SIGN TYPE / MESSAGING CONFIRMATION - UPPER LEVEL AIRSIDE			X	X
IG0.1.14	SIGN TYPE / MESSAGING CONFIRMATION - LOWER LEVEL LANDSIDE				X
IG0.1.15	SIGN TYPE / MESSAGING CONFIRMATION - LOWER LEVEL LANDSIDE				X

EQUIPMENT

QA0.1.01	SYMBOLS, ABBREVIATIONS, & GENERAL NOTES			X	X
QA1.1.01	EXISTING PBB LAYOUT - GATE L2A			X	X
QA2.1.01	NEW PBB LAYOUT - GATE L2A			X	X
QA3.1.01	PBB DETAILS - PART ONE			X	X
QA3.1.02	PBB DETAILS - PART TWO			X	X
QA3.1.03	PBB DETAILS - PART THREE			X	X
QA4.1.01	RIDS RELOCATION PLAN			X	X

BAGGAGE HANDLING SYSTEMS

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
QB0.01	LEGEND, GENERAL NOTES & DRAWING LIST	X	X	X	X
QB0.02	SINGLE LINE DIAGRAM			X	X
QBD1.1.01	BASEMENT ONE - DEMOLITION PLAN - OVERALL BHS	X	X	X	X
QBD1.1.01.2E	BASEMENT ONE - DEMOLITION PLAN - AREA 2E BHS	X	X	X	X
QBD1.1.01.2F	BASEMENT ONE - DEMOLITION PLAN - AREA 2F BHS	X	X	X	X
QBD1.1.01.3E	BASEMENT ONE - DEMOLITION PLAN - AREA 3E BHS	X	X	X	X
QBD1.1.01.3F	BASEMENT ONE - DEMOLITION PLAN - AREA 3F BHS	X	X	X	X
QBD1.1.01.4E	BASEMENT ONE - DEMOLITION PLAN - AREA 4E BHS	X	X	X	X
QBD1.1.02	LOWER LEVEL - DEMOLITION PLAN - OVERALL BHS	X	X	X	X
QBD1.1.02.2D	LOWER LEVEL - DEMOLITION PLAN - AREA 2D BHS	X	X	X	X
QBD1.1.02.2E	LOWER LEVEL - DEMOLITION PLAN - AREA 2E BHS	X	X	X	X
QBD1.1.02.2F	LOWER LEVEL - DEMOLITION PLAN - AREA 2F BHS	X	X	X	X
QBD1.1.02.2G	LOWER LEVEL - DEMOLITION PLAN - AREA 2G BHS	X	X	X	X
QBD1.1.02.2H	LOWER LEVEL - DEMOLITION PLAN - AREA 2H BHS	X	X	X	X
QBD1.1.02.3E	LOWER LEVEL - DEMOLITION PLAN - AREA 3E BHS	X	X	X	X
QBD1.1.02.3F	LOWER LEVEL - DEMOLITION PLAN - AREA 3F BHS		X	X	X
QBD1.1.02.3H	LOWER LEVEL - DEMOLITION PLAN - AREA 3H BHS		X	X	X
QBD1.1.03	UPPER LEVEL - DEMOLITION PLAN - OVERALL BHS			X	X
QBD1.1.03.2E	UPPER LEVEL - DEMOLITION PLAN - AREA 2E BHS			X	X
QBD1.1.03.2F	UPPER LEVEL - DEMOLITION PLAN - AREA 2F BHS			X	X
QBD1.1.03.2G	UPPER LEVEL - DEMOLITION PLAN - AREA 2G BHS			X	X
QBD1.1.03.2H	UPPER LEVEL - DEMOLITION PLAN - AREA 2H BHS			X	X
QB2.1.01	BASEMENT ONE - OVERALL BHS PLAN	X	X	X	X
QB2.1.01.2E	BASEMENT ONE PLAN - AREA 2E BHS	X	X	X	X
QB2.1.01.2F	BASEMENT ONE PLAN - AREA 2F BHS	X	X	X	X
QB2.1.01.2H	BASEMENT ONE PLAN - AREA 2H BHS	X	X	X	X
QB2.1.01.3E	BASEMENT ONE PLAN - AREA 3E BHS	X	X	X	X
QB2.1.01.3F	BASEMENT ONE PLAN - AREA 3F BHS	X	X	X	X
QB2.1.01.3H	BASEMENT ONE PLAN - AREA 3H BHS	X	X	X	X
QB2.1.02	LOWER LEVEL - OVERALL BHS PLAN	X	X	X	X
QB2.1.02.2D	LOWER LEVEL PLAN - AREA 2D BHS	X	X	X	X
QB2.1.02.2E	LOWER LEVEL PLAN - AREA 2E BHS	X	X	X	X
QB2.1.02.2F	LOWER LEVEL PLAN - AREA 2F BHS	X	X	X	X
QB2.1.02.2G.1	LOWER LEVEL PLAN - AREA 2G - LOWER BHS	X	X	X	X
QB2.1.02.2G.2	LOWER LEVEL PLAN - AREA 2G - UPPER BHS	X	X	X	X
QB2.1.02.2H.1	LOWER LEVEL PLAN - AREA 2H - LOWER BHS			X	X
QB2.1.02.2H.2	LOWER LEVEL PLAN - AREA 2H - UPPER BHS			X	X
QB2.1.02.3E	LOWER LEVEL PLAN - AREA 3E BHS	X	X	X	X
QB2.1.02.3H	LOWER LEVEL PLAN - AREA 3H BHS	X	X	X	X
QB2.2.03	UPPER LEVEL - OVERALL BHS			X	X
QB2.2.03.2D	UPPER LEVEL PLAN - AREA 2D BHS			X	X
QB2.2.03.2E	UPPER LEVEL PLAN - AREA 2E BHS			X	X
QB2.2.03.2F	UPPER LEVEL PLAN - AREA 2F BHS			X	X
QB2.2.03.2G	UPPER LEVEL PLAN - AREA 2G BHS			X	X
QB2.2.03.2H	UPPER LEVEL PLAN - AREA 2H BHS			X	X
QB3.00	SECTIONS			X	X
QB3.01	SECTIONS			X	X
QB3.02	SECTIONS			X	X
QB4.01	ENLARGED PLANS - BAG ROOM			X	X
QB4.02	ENLARGED PLANS			X	X
QB4.03	TUG & CART CIRCULATION			X	X
QB5.1.01.2H	BASEMENT ONE PLAN - AREA 2H - CATWALK				X
QB5.1.01.3E	BASEMENT ONE PLAN - AREA 3E - CATWALK				X
QB5.1.01.3F	BASEMENT ONE PLAN - AREA 3F - CATWALK				X
QB5.1.02.2E	LOWER LEVEL PLAN - AREA 2E - CATWALK				X
QB5.1.02.2F	LOWER LEVEL PLAN - AREA 2F - CATWALK				X
QB5.1.02.2G	LOWER LEVEL PLAN - AREA 2G - UPPER - CATWALK				X
QB5.1.02.2H	LOWER LEVEL PLAN - AREA 2H - UPPER - CATWALK				X
QB5.1.02.3H	LOWER LEVEL PLAN - AREA 3H - CATWALK				X
QB5.2.03.2G	UPPER LEVEL PLAN - AREA 2G - CATWALK				X
QB7.00	CONVEYOR MANIFEST			X	X
QB7.00.01	CONVEYOR MANIFEST			X	X
QB7.00.02	CONVEYOR MANIFEST & POWER SUMMARY			X	X
QB7.03	BHS TYPICAL CONTROL DEVICE LAYOUTS			X	X
QB7.04	BHS TYPICAL CONTROL DEVICE LAYOUT			X	X
QB7.05	BHS CONTROLS STATION CONFIGURATION TYPICALS			X	X
QB7.09	BHS BASEMENT ONE - PDP LAYOUT			X	X
QB7.10	BHS LOWER LEVEL - PDP LAYOUT			X	X
QB7.1.01.2E	BASEMENT ONE PLAN - AREA 2E - E-STOP ZONES				X
QB7.1.01.2F	BASEMENT ONE PLAN - AREA 2F - E-STOP ZONES				X
QB7.1.01.2H.1	BASEMENT ONE PLAN - AREA 2H - E-STOP ZONES				X
QB7.1.01.2H.2	BASEMENT ONE PLAN - AREA 2H UPPER - E-STOP ZONES				X
QB7.1.01.3E	BASEMENT ONE PLAN - AREA 3E - E-STOP ZONES				X
QB7.1.01.3F	BASEMENT ONE PLAN - AREA 3F - E-STOP ZONES				X
QB7.1.02.2D	LOWER LEVEL PLAN - AREA 2D - E-STOP ZONES				X
QB7.1.02.2E	LOWER LEVEL PLAN - AREA 2E - E-STOP ZONES				X
QB7.1.02.2F	LOWER LEVEL PLAN - AREA 2F - E-STOP ZONES				X
QB7.1.02.2G.1	LOWER LEVEL PLAN - AREA 2G - LOWER - E-STOP ZONES				X
QB7.1.02.2G.2	LOWER LEVEL PLAN - AREA 2G - UPPER - E-STOP ZONES				X
QB7.1.02.2H.1	LOWER LEVEL PLAN - AREA 2H - LOWER - E-STOP ZONES				X
QB7.1.02.2H.2	LOWER LEVEL PLAN - AREA 2H - UPPER - E-STOP ZONES				X
QB7.1.02.3H	LOWER LEVEL PLAN - AREA 3H - E-STOP ZONES				X
QB7.2.03.2D	UPPER LEVEL PLAN - AREA 2D - E-STOP ZONES				X
QB7.2.03.2E	UPPER LEVEL PLAN - AREA 2E - E-STOP ZONES				X
QB7.2.03.2G	UPPER LEVEL PLAN - AREA 2G - E-STOP ZONES				X
QB7.2.03.2H	UPPER LEVEL PLAN - AREA 2H - E-STOP ZONES				X
QB8.00	BHS TYPICAL LOADING DETAILS	X	X	X	X
QB8.01	BHS TYPICAL LOADING DETAILS	X	X	X	X
QB8.02	BHS TYPICAL LOADING DETAILS	X	X	X	X
QB8.03	BHS TYPICAL ATTACHMENT AND CONDUIT ROUTING DETAILS	X	X	X	X
QB8.04	BHS TYPICAL ATTACHMENT AND CONDUIT ROUTING DETAILS	X	X	X	X
QB8.05	BHS TYPICAL DOOR DETAILS	X	X	X	X
QB8.06	BHS TYPICAL ACCESS LADDER & STAIR DETAILS	X	X	X	X
QB8.07	BHS TYPICAL ACCESS LADDER & STAIR DETAILS	X	X	X	X
QB8.08	BHS TYPICAL SAFETY SIGNAGE	X	X	X	X
QB8.09	BHS TYPICAL FLAT PLATE CLAIM DEVICE DETAILS	X	X	X	X
QB8.10	BHS TYPICAL MAKE UP AND CLAIM DEVICE DETAILS	X	X	X	X
QB8.11	BHS TYPICAL CBRA	X	X	X	X
QB8.12	BHS TICKET LINE DETAILS	X	X	X	X

FIRE PROTECTION

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
FPD1.1.01	OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - BASEMENT LEVEL			X	X
FPD1.1.02	OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
FPD1.1.03	OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
FPD1.1.04	OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - MEZZANINE LEVEL	X	X	X	X
FP0.01	FIRE PROTECTION NOTES, GRAPHIC KEYS, ABBREVIATIONS		X	X	X
FP0.02	FIRE PROTECTION NOTES, GRAPHIC KEYS, ABBREVIATIONS		X	X	X
FP1.1.01	OVERALL FIRE PROTECTION ZONE PLAN - BASEMENT LEVEL			X	X
FP1.1.02	OVERALL FIRE PROTECTION ZONE PLAN - LOWER LEVEL	X	X	X	X
FP1.1.03	OVERALL FIRE PROTECTION ZONE PLAN - UPPER LEVEL	X	X	X	X
FP1.1.04	OVERALL FIRE PROTECTION ZONE PLAN - MEZZANINE LEVEL	X	X		X
FP1.1.05	OVERALL FIRE PROTECTION ZONE PLAN - PENTHOUSE				X
FP2.1.01.2D	FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2D			X	X
FP2.1.01.2E	FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2E			X	X
FP2.1.01.2F	FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2F			X	X
FP2.1.01.2G	FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2G			X	X
FP2.1.01.2H	FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2H			X	X
FP2.1.01.3H	FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 3H			X	X
FP2.1.02.2D	FIRE PROTECTION PLAN LOWER LEVEL - AREA 2D			X	X
FP2.1.02.2E	FIRE PROTECTION PLAN LOWER LEVEL - AREA 2E			X	X
FP2.1.02.2F	FIRE PROTECTION PLAN LOWER LEVEL - AREA 2F			X	X
FP2.1.02.2G	FIRE PROTECTION PLAN LOWER LEVEL - AREA 2G			X	X
FP2.1.02.2H	FIRE PROTECTION PLAN LOWER LEVEL - AREA 2H			X	X
FP2.1.02.3H	FIRE PROTECTION PLAN LOWER LEVEL - AREA 3H			X	X
FP2.1.03.2D	FIRE PROTECTION PLAN UPPER LEVEL - AREA 2D			X	X
FP2.1.03.2E	FIRE PROTECTION PLAN UPPER LEVEL - AREA 2E			X	X
FP2.1.03.2F	FIRE PROTECTION PLAN UPPER LEVEL - AREA 2F			X	X
FP2.1.03.2G	FIRE PROTECTION PLAN UPPER LEVEL - AREA 2G			X	X
FP2.1.03.2H	FIRE PROTECTION PLAN UPPER LEVEL - AREA 2H			X	X
FP2.1.04.2D	FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2D			X	X
FP2.1.04.2E	FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2E			X	X
FP2.1.04.2F	FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2F			X	X
FP2.1.04.2G	FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2G			X	X
FP2.1.04.2H	FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2H			X	X
FP4.01	FIRE PROTECTION DIAGRAMS		X	X	X
FP4.02	FIRE PROTECTION DIAGRAMS		X	X	X
FP8.01	FIRE PROTECTION DETAILS			X	X

FIRE ALARM

FAD1.1.01	OVERALL FIRE ALARM DEMOLITION PLAN - BASEMENT LEVEL			X	X
FAD1.1.02	OVERALL FIRE ALARM DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
FAD1.1.03	OVERALL FIRE ALARM DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
FAD1.1.04	OVERALL FIRE ALARM DEMOLITION PLAN - MEZZANINE LEVEL	X	X	X	X
FAD1.1.05	OVERALL FIRE ALARM DEMOLITION PLAN - PENTHOUSE			X	X
FA0.01	FIRE ALARM GRAPHIC KEYS AND ABBREVIATIONS	X	X	X	X
FA0.02	FIRE ALARM GENERAL NOTES	X	X	X	X
FA1.1.01	OVERALL FIRE ALARM PLAN - BASEMENT LEVEL			X	X
FA1.1.02	OVERALL FIRE ALARM PLAN - LOWER LEVEL	X	X	X	X
FA1.1.03	OVERALL FIRE ALARM PLAN - UPPER LEVEL	X	X	X	X
FA1.1.04	OVERALL FIRE ALARM PLAN - MEZZANINE LEVEL	X	X	X	X
FA1.1.05	OVERALL FIRE ALARM PLAN - PENTHOUSE			X	X
FA2.1.01.2E	FIRE ALARM PLAN BASEMENT LEVEL - AREA 2E			X	X
FA2.1.01.3F	FIRE ALARM PLAN BASEMENT LEVEL - AREA 3F			X	X
FA2.1.01.3G	FIRE ALARM PLAN BASEMENT LEVEL - AREA 3G			X	X
FA2.1.02.2D	FIRE ALARM PLAN LOWER LEVEL - AREA 2D			X	X
FA2.1.02.2E	FIRE ALARM PLAN LOWER LEVEL - AREA 2E			X	X
FA2.1.02.2F	FIRE ALARM PLAN LOWER LEVEL - AREA 2F			X	X
FA2.1.02.2G	FIRE ALARM PLAN LOWER LEVEL - AREA 2G			X	X
FA2.1.02.2H	FIRE ALARM PLAN LOWER LEVEL - AREA 2H			X	X
FA2.1.02.3G	FIRE ALARM PLAN LOWER LEVEL - AREA 3G			X	X
FA2.1.02.3H	FIRE ALARM PLAN LOWER LEVEL - AREA 3H			X	X
FA2.1.03.2D	FIRE ALARM PLAN UPPER LEVEL - AREA 2D			X	X
FA2.1.03.2E	FIRE ALARM PLAN UPPER LEVEL - AREA 2E			X	X
FA2.1.03.2F	FIRE ALARM PLAN UPPER LEVEL - AREA 2F			X	X
FA2.1.03.2G	FIRE ALARM PLAN UPPER LEVEL - AREA 2G			X	X
FA2.1.03.2H	FIRE ALARM PLAN UPPER LEVEL - AREA 2H			X	X
FA2.1.03.3F	FIRE ALARM PLAN UPPER LEVEL - AREA 3F			X	X
FA2.1.03.3G	FIRE ALARM PLAN UPPER LEVEL - AREA 3G			X	X
FA2.1.03.3H	FIRE ALARM PLAN UPPER LEVEL - AREA 3H			X	X
FA2.1.04.2F	FIRE ALARM PLAN MEZZANINE LEVEL - AREA 2F				X
FA2.1.04.2G	FIRE ALARM PLAN MEZZANINE LEVEL - AREA 2G			X	X
FA2.1.04.2H	FIRE ALARM PLAN MEZZANINE LEVEL - AREA 2H			X	X
FA2.1.04.3E	FIRE ALARM PLAN MEZZANINE LEVEL - AREA 3E				X
FA2.1.04.3H	FIRE ALARM PLAN MEZZANINE LEVEL - AREA 3H				X
FA2.1.05.2E	FIRE ALARM PLAN PENTHOUSE - AREA 2E				X
FA2.1.05.2G	FIRE ALARM PLAN PENTHOUSE - AREA 2G			X	X
FA2.1.05.2H	FIRE ALARM PLAN PENTHOUSE - AREA 2H			X	X
FA2.1.05.3H	FIRE ALARM PLAN PENTHOUSE - AREA 3H				X
FA4.01	FIRE ALARM RISER DIAGRAM	X	X	X	X

PLUMBING

PD1.2.01	OVERALL PLUMBING DEMOLITION PLAN - BASEMENT LEVEL	X	X	X	X
PD1.2.02	OVERALL PLUMBING DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
PD1.2.03	OVERALL PLUMBING DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
PD1.2.04	OVERALL PLUMBING DEMOLITION PLAN - MEZZANINE LEVEL	X	X	X	X
P0.01	PLUMBING NOTES, GRAPHIC KEYS, ABBREVIATIONS	X	X	X	X
P1.2.01	OVERALL PLUMBING PLAN - BASEMENT LEVEL	X		X	X
P1.2.02	OVERALL PLUMBING PLAN - LOWER LEVEL	X	X	X	X
P1.2.03	OVERALL PLUMBING PLAN - UPPER LEVEL	X	X	X	X
P1.2.04	OVERALL PLUMBING PLAN - MEZZANINE LEVEL	X	X	X	X
P2.2.01.1G	PLUMBING PLAN BASEMENT LEVEL - AREA 1G			X	X
P2.2.01.1H	PLUMBING PLAN BASEMENT LEVEL - AREA 1H			X	X
P2.2.01.2D	PLUMBING PLAN BASEMENT LEVEL - AREA 2D			X	X
P2.2.01.2E	PLUMBING PLAN BASEMENT LEVEL - AREA 2E			X	X
P2.2.01.2F	PLUMBING PLAN BASEMENT LEVEL - AREA 2F			X	X
P2.2.01.2G	PLUMBING PLAN BASEMENT LEVEL - AREA 2G			X	X
P2.2.01.2H	PLUMBING PLAN BASEMENT LEVEL - AREA 2H			X	X
P2.2.01.3F	PLUMBING PLAN BASEMENT LEVEL - AREA 3F			X	X
P2.2.01.3G	PLUMBING PLAN BASEMENT LEVEL - AREA 3G			X	X
P2.2.01.3H	PLUMBING PLAN BASEMENT LEVEL - AREA 3H			X	X
P2.2.02.2D	PLUMBING PLAN LOWER LEVEL - AREA 2D			X	X
P2.2.02.2E	PLUMBING PLAN LOWER LEVEL - AREA 2E			X	X
P2.2.02.2F	PLUMBING PLAN LOWER LEVEL - AREA 2F			X	X
P2.2.02.2G	PLUMBING PLAN LOWER LEVEL - AREA 2G			X	X
P2.2.02.2H	PLUMBING PLAN LOWER LEVEL - AREA 2H			X	X
P2.2.02.3F	PLUMBING PLAN LOWER LEVEL - AREA 3F			X	X
P2.2.02.3G	PLUMBING PLAN LOWER LEVEL - AREA 3G			X	X
P2.2.02.3H	PLUMBING PLAN LOWER LEVEL - AREA 3H			X	X
P2.2.03.2D	PLUMBING PLAN UPPER LEVEL - AREA 2D			X	X
P2.2.03.2E	PLUMBING PLAN UPPER LEVEL - AREA 2E			X	X
P2.2.03.2F	PLUMBING PLAN UPPER LEVEL - AREA 2F			X	X
P2.2.03.2G	PLUMBING PLAN UPPER LEVEL - AREA 2G			X	X
P2.2.03.2H	PLUMBING PLAN UPPER LEVEL - AREA 2H			X	X
P2.2.03.3F	PLUMBING PLAN UPPER LEVEL - AREA 3F			X	X
P2.2.03.3G	PLUMBING PLAN UPPER LEVEL - AREA 3G			X	X
P2.2.03.3H	PLUMBING PLAN UPPER LEVEL - AREA 3H			X	X
P2.2.04.2D	PLUMBING PLAN MEZZANINE LEVEL - AREA 2D			X	X
P2.2.04.2E	PLUMBING PLAN MEZZANINE LEVEL - AREA 2E			X	X
P2.2.04.2F	PLUMBING PLAN MEZZANINE LEVEL - AREA 2F			X	X
P2.2.04.2G	PLUMBING PLAN MEZZANINE LEVEL - AREA 2G			X	X
P2.2.04.2H	PLUMBING PLAN MEZZANINE LEVEL - AREA 2H			X	X
P2.2.04.3F	PLUMBING PLAN MEZZANINE LEVEL - AREA 3F			X	X
P2.2.04.3G	PLUMBING PLAN MEZZANINE LEVEL - AREA 3G			X	X
P2.2.04.3H	PLUMBING PLAN MEZZANINE LEVEL - AREA 3H			X	X
P6.01	PLUMBING SCHEDULES	X		X	X

MECHANICAL

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
MD1.1.01	OVERALL MECHANICAL HVAC DEMOLITION PLAN - BASEMENT LEVEL	X	X	X	X
MD1.1.02	OVERALL MECHANICAL HVAC DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
MD1.1.03	OVERALL MECHANICAL HVAC DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
MD1.1.04	OVERALL MECHANICAL HVAC DEMOLITION PLAN - MEZZANINE LEVEL	X	X	X	X
MD1.1.05	OVERALL MECHANICAL HVAC DEMOLITION PLAN - PENTHOUSE	X	X	X	X
MD1.2.01	OVERALL MECHANICAL PIPING DEMOLITION PLAN - BASEMENT LEVEL	X	X	X	X
MD1.2.02	OVERALL MECHANICAL PIPING DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
MD1.2.03	OVERALL MECHANICAL PIPING DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
MD1.2.04	OVERALL MECHANICAL PIPING DEMOLITION PLAN - MEZZANINE LEVEL	X	X	X	X
MD1.2.05	OVERALL MECHANICAL PIPING DEMOLITION PLAN - PENTHOUSE	X	X	X	X
M0.01	MECHANICAL NOTES, GRAPHIC KEYS, ABBREVIATIONS	X	X	X	X
M0.02	MECHANICAL NOTES, GRAPHIC KEYS, ABBREVIATIONS	X	X	X	X
M0.03	MECHANICAL NOTES, GRAPHIC KEYS, ABBREVIATIONS	X	X	X	X
M1.1.01	OVERALL MECHANICAL HVAC PLAN - BASEMENT LEVEL	X	X	X	X
M1.1.02	OVERALL MECHANICAL HVAC PLAN - LOWER LEVEL	X	X	X	X
M1.1.03	OVERALL MECHANICAL HVAC PLAN - UPPER LEVEL	X	X	X	X
M1.1.04	OVERALL MECHANICAL HVAC PLAN - MEZZANINE LEVEL	X	X	X	X
M1.1.05	OVERALL MECHANICAL HVAC PLAN - PENTHOUSE	X	X	X	X
M1.2.01	OVERALL MECHANICAL PIPING PLAN - BASEMENT LEVEL	X	X	X	X
M1.2.02	OVERALL MECHANICAL PIPING PLAN - LOWER LEVEL	X	X	X	X
M1.2.03	OVERALL MECHANICAL PIPING PLAN - UPPER LEVEL	X	X	X	X
M1.2.04	OVERALL MECHANICAL PIPING PLAN - MEZZANINE LEVEL	X	X	X	X
M1.2.05	OVERALL MECHANICAL PIPING PLAN - PENTHOUSE	X	X	X	X
M2.1.01.2D	MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2D			X	X
M2.1.01.2E	MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2E			X	X
M2.1.01.2F	MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2F			X	X
M2.1.01.2G	MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2G			X	X
M2.1.01.2H	MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2H			X	X
M2.1.02.2D	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2D			X	X
M2.1.02.2E	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2E			X	X
M2.1.02.2F	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2F			X	X
M2.1.02.2G	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2G			X	X
M2.1.02.2H	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2H			X	X
M2.1.02.3F	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3F			X	X
M2.1.02.3G	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3G			X	X
M2.1.02.3H	MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3H			X	X
M2.1.03.2D	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2D			X	X
M2.1.03.2E	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2E			X	X
M2.1.03.2F	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2F			X	X
M2.1.03.2G	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2G			X	X
M2.1.03.2H	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2H			X	X
M2.1.03.3F	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 3F			X	X
M2.1.03.3G	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 3G			X	X
M2.1.03.3H	MECHANICAL HVAC PLAN UPPER LEVEL - AREA 3H			X	X
M2.1.04.2D	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2D			X	X
M2.1.04.2E	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2E			X	X
M2.1.04.2F	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2F			X	X
M2.1.04.2G	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2G			X	X
M2.1.04.2H	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2H			X	X
M2.1.04.3F	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 3F			X	X
M2.1.04.3G	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 3G			X	X
M2.1.04.3H	MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 3H			X	X
M2.1.05.2D	MECHANICAL HVAC PLAN PENTHOUSE - AREA 2D			X	X
M2.1.05.2E	MECHANICAL HVAC PLAN PENTHOUSE - AREA 2E			X	X
M2.1.05.2F	MECHANICAL HVAC PLAN PENTHOUSE - AREA 2F			X	X
M2.1.05.2G	MECHANICAL HVAC PLAN PENTHOUSE - AREA 2G			X	X
M2.1.05.2H	MECHANICAL HVAC PLAN PENTHOUSE - AREA 2H			X	X
M2.1.05.3H	MECHANICAL HVAC PLAN PENTHOUSE - AREA 3H			X	X
M2.2.01.2G	MECHANICAL PIPING PLAN BASEMENT LEVEL - AREA 2G			X	X
M2.2.01.2H	MECHANICAL PIPING PLAN BASEMENT LEVEL - AREA 2H			X	X
M2.2.02.2D	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2D			X	X
M2.2.02.2E	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2E			X	X
M2.2.02.2F	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2F			X	X
M2.2.02.2G	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2G			X	X
M2.2.02.2H	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2H			X	X
M2.2.02.3F	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3F			X	X
M2.2.02.3G	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3G			X	X
M2.2.02.3H	MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3H			X	X
M2.2.03.2F	MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2F			X	X
M2.2.03.2G	MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2G			X	X
M2.2.03.2H	MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2H			X	X
M2.2.03.3F	MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3F			X	X
M2.2.03.3G	MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3G			X	X
M2.2.03.3H	MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3H			X	X
M2.2.04.2E	MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2E			X	X
M2.2.04.2F	MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2F			X	X
M2.2.04.2G	MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2G			X	X
M2.2.04.2H	MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2H			X	X
M2.2.05.2D	MECHANICAL PIPING PLAN PENTHOUSE - AREA 2D			X	X
M2.2.05.2F	MECHANICAL PIPING PLAN PENTHOUSE - AREA 2F				X
M2.2.05.2G	MECHANICAL PIPING PLAN PENTHOUSE - AREA 2G			X	X
M2.2.05.2H	MECHANICAL PIPING PLAN PENTHOUSE - AREA 2H			X	X
M2.2.05.3H	MEC

VOLUME 3

ELECTRICAL

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 02/24/2023
ED1.1.01	OVERALL ELECTRICAL DEMOLITION PLAN - BASEMENT LEVEL	X	X	X	X
ED1.1.02	OVERALL ELECTRICAL DEMOLITION PLAN - LOWER LEVEL	X	X	X	X
ED1.1.03	OVERALL ELECTRICAL DEMOLITION PLAN - UPPER LEVEL	X	X	X	X
ED1.1.04	OVERALL ELECTRICAL DEMOLITION PLAN - MEZZANINE LEVEL	X	X	X	X
ED1.1.05	OVERALL ELECTRICAL DEMOLITION PLAN - PENTHOUSE	X	X	X	X
ED4.2.01	SLD NC-5612 CITY SWGR CS-8KK AND TENANT SWGR TS-8KK	X	X	X	X
ED4.2.02	SLD NC-5612 PDP30022 (C-LDP-8KK-T) AND EMDP-8KK-T	X	X	X	X
ED4.2.03	SLD NC-5612 PDP30023, PDP20024, AND PDP32005	X	X	X	X
ED4.2.04	SLD NC-5612 MCC36503 (CITY-MCC-8CC-P)	X	X	X	X
ED4.2.05	SLD NC-5612 MCC36504 (CITY-MCC-8HH-P)	X	X	X	X
ED4.2.06	SLD NC-5612 PDP32011 PANEL C-LP-8BB-B AND UNLABELED (DP8KK8)	X	X	X	X
ED4.2.07	SLD NC-5612 DELTA-PDP-8KK-T	X	X	X	X
ED4.2.08	SLD NC-5612 UNLABELED "L ADMIRAL CLUB" AND T-LDP-8KK-T	X	X	X	X
ED4.2.09	SLD NC-5612 PDP32012, TDP-8AA-B1	X	X	X	X
ED4.2.10	SLD NC-5611 TENANT SWGR TS-19-LLL AND D-MDP-19T	X	X	X	X
ED4.2.11	SLD NC-5604 CITY SWGR 8B AND CONCESSION / TENANT SWGR 8B	X	X	X	X
ED4.2.12	SLD NC-5604 PNL-DP-8XB1 (CITY 8L5) AND CITY DP-8XP1	X	X	X	X
ED4.2.13	SLD NC-5604 MCC-8A	X	X	X	X
ED4.2.14	SLD NC-5604 MCC-8B	X	X	X	X
ED4.2.15	SLD NC-5604 CITY 8F6 DP-8SB	X	X	X	X
ED4.2.16	SLD NC-5604 CITY DP-8ZB1	X	X	X	X
ED4.2.17	SLD NC-5604 DP-8MP (CITY 8F8) AND 8F9 FEEDERS	X	X	X	X
ED4.2.18	SLD NC-5604 DP-8LB1 (CITY 8F2)	X	X	X	X
ED4.2.19	SLD NC-5604 EMDP-8XB	X	X	X	X
ED4.2.20	SLD NC-5604 DP 8SB AND TENANT 8SB	X	X	X	X
ED4.2.21	SLD NC-5604 PANEL MC 8GU	X	X	X	X
ED4.2.22	SLD NC-5604 PDP32005	X	X	X	X
ED4.2.23	SLD NC-5604 PDP32003	X	X	X	X
ED4.2.24	SLD NC-5604 PANEL AAL-9D-5/8U			X	X
E0.01	ELECTRICAL GRAPHIC KEYS	X	X	X	X
E0.02	ELECTRICAL ABBREVIATIONS	X	X	X	X
E1.0.01	OVERALL ELECTRICAL ZONING PLAN - BASEMENT LEVEL	X	X	X	X
E1.0.02	OVERALL ELECTRICAL ZONING PLAN - LOWER LEVEL	X	X	X	X
E1.0.03	OVERALL ELECTRICAL ZONING PLAN - UPPER LEVEL	X	X	X	X
E1.0.04	OVERALL ELECTRICAL ZONING PLAN - MEZZANINE LEVEL	X	X	X	X
E1.0.05	OVERALL ELECTRICAL ZONING PLAN - PENTHOUSE	X	X	X	X
E2.1.01.1G	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 1G		X	X	X
E2.1.01.1H	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 1H		X	X	X
E2.1.01.2D	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 2D		X	X	X
E2.1.01.2E	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 2E		X	X	X
E2.1.01.2F	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 2F		X	X	X
E2.1.01.2G	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 2G		X	X	X
E2.1.01.2H	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 2H		X	X	X
E2.1.01.3G	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 3G		X	X	X
E2.1.01.3H	ELECTRICAL LIGHTING PLAN BASEMENT LEVEL - AREA 3H		X	X	X
E2.1.02.2D	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 2D		X	X	X
E2.1.02.2E	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 2E		X	X	X
E2.1.02.2F	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 2F		X	X	X
E2.1.02.2G	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 2G		X	X	X
E2.1.02.2H	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 2H		X	X	X
E2.1.02.3F	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 3F		X	X	X
E2.1.02.3G	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 3G		X	X	X
E2.1.02.3H	ELECTRICAL LIGHTING PLAN LOWER LEVEL - AREA 3H		X	X	X
E2.1.03.2D	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 2D		X	X	X
E2.1.03.2E	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 2E		X	X	X
E2.1.03.2F	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 2F		X	X	X
E2.1.03.2G	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 2G		X	X	X
E2.1.03.2H	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 2H		X	X	X
E2.1.03.3F	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 3F		X	X	X
E2.1.03.3G	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 3G		X	X	X
E2.1.03.3H	ELECTRICAL LIGHTING PLAN UPPER LEVEL - AREA 3H		X	X	X
E2.1.04.2D	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 2D		X	X	X
E2.1.04.2E	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 2E		X	X	X
E2.1.04.2F	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 2F		X	X	X
E2.1.04.2G	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 2G		X	X	X
E2.1.04.2H	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 2H		X	X	X
E2.1.04.3F	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 3F		X		X
E2.1.04.3G	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 3G		X		X
E2.1.04.3H	ELECTRICAL LIGHTING PLAN MEZZANINE LEVEL - AREA 3H		X		X
E2.2.01.2E	ELECTRICAL POWER PLAN BASEMENT LEVEL - AREA 2E		X	X	X
E2.2.01.2G	ELECTRICAL POWER PLAN BASEMENT LEVEL - AREA 2G		X	X	X
E2.2.01.2H	ELECTRICAL POWER PLAN BASEMENT LEVEL - AREA 2H		X	X	X
E2.2.01.3F	ELECTRICAL POWER PLAN BASEMENT LEVEL - AREA 3F		X	X	X
E2.2.01.3H	ELECTRICAL POWER PLAN BASEMENT LEVEL - AREA 3H		X	X	X
E2.2.02.2D	ELECTRICAL POWER PLAN LOWER LEVEL - AREA 2D		X	X	X
E2.2.02.2E	ELECTRICAL POWER PLAN LOWER LEVEL - AREA 2E		X	X	X
E2.2.02.2F	ELECTRICAL POWER PLAN LOWER LEVEL - AREA 2F		X	X	X
E2.2.02.2G	ELECTRICAL POWER PLAN LOWER LEVEL - AREA 2G		X	X	X
E2.2.02.2H	ELECTRICAL POWER PLAN LOWER LEVEL - AREA 2H		X	X	X
E2.2.02.3G	ELECTRICAL POWER PLAN LOWER LEVEL - AREA 3G		X	X	X
E2.2.02.3H	ELECTRICAL POWER PLAN LOWER LEVEL - AREA 3H		X	X	X
E2.2.03.2D	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 2D		X	X	X
E2.2.03.2E	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 2E		X	X	X
E2.2.03.2F	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 2F		X	X	X
E2.2.03.2G	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 2G		X	X	X
E2.2.03.2H	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 2H		X	X	X
E2.2.03.3F	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 3F		X	X	X
E2.2.03.3G	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 3G		X	X	X
E2.2.03.3H	ELECTRICAL POWER PLAN UPPER LEVEL - AREA 3H		X	X	X
E2.2.04.2F	ELECTRICAL POWER PLAN MEZZANINE LEVEL - AREA 2F		X	X	X
E2.2.04.2G	ELECTRICAL POWER PLAN MEZZANINE LEVEL - AREA 2G		X	X	X
E2.2.04.2H	ELECTRICAL POWER PLAN MEZZANINE LEVEL - AREA 2H		X	X	X
E2.2.04.3E	ELECTRICAL POWER PLAN MEZZANINE LEVEL - AREA 3E		X	X	X
E2.2.04.3H	ELECTRICAL POWER PLAN MEZZANINE LEVEL - AREA 3H			X	X
E2.2.05.2D	ELECTRICAL POWER PLAN PENTHOUSE - AREA 2D		X	X	X
E2.2.05.2E	ELECTRICAL POWER PLAN PENTHOUSE - AREA 2E		X	X	X
E2.2.05.2F	ELECTRICAL POWER PLAN PENTHOUSE - AREA 2F		X	X	X
E2.2.05.2G	ELECTRICAL POWER PLAN PENTHOUSE - AREA 2G		X	X	X
E2.2.05.2H	ELECTRICAL POWER PLAN PENTHOUSE - AREA 2H		X	X	X
E2.2.05.3H	ELECTRICAL POWER PLAN PENTHOUSE - AREA 3H		X	X	X
E3.2.01	ELECTRICAL ROOM ENLARGED PLANS (1 OF 2)	X	X	X	X
E3.2.02	ELECTRICAL ROOM ENLARGED PLANS (2 OF 2)	X	X	X	X
E3.2.03	NETWORK CENTER ENLARGED PLANS (1 OF 2)		X	X	X
E3.2.04	NETWORK CENTER ENLARGED PLANS (2 OF 2)		X	X	X
E3.2.05	VERTICAL ELEVATOR CIRCULATION				X
E4.2.01	SLD NC-5612 CITY SWGR CS-8KK AND TENANT SWGR TS-8KK	X	X	X	X
E4.2.02	SLD NC-5612 PDP30022 (C-LDP-8KK-T) AND EMDP-8KK-T	X	X	X	X
E4.2.03	SLD NC-5612 PDP30023, PDP30024, AND PDP2005	X	X	X	X
E4.2.04	SLD NC-5612 MCC36503 (CITY-MCC-8CC-P)	X	X	X	X
E4.2.05	SLD NC-5612 MCC36504 (CITY-MCC-8HH-P)	X	X	X	X
E4.2.06	SLD NC-5612 PDP32011 PANEL (C-LP-8BB-B) AND UNLABELED (DP8KK8)	X	X	X	X
E4.2.07	SLD NC-5612 DELTA-PDP-8KK-T	X	X	X	X
E4.2.08	SLD NC-5612 UNLABELED "L ADMIRAL CLUB" AND T-LDP-8KK-T	X	X	X	X
E4.2.09	SLD NC-5612 PDP32012	X	X	X	X
E4.2.10	SLD NC-5611 TENANT SWGR TS-19-LLL AND D-MDP-19T	X	X	X	X
E4.2.11	SLD NC-5604 CITY SWGR 8B AND CONCESSION / TENANT SWGR 8B	X	X	X	X
E4.2.12	SLD NC-5604 PNL-DP-8XB1 (CITY 8L5) AND CITY DP-8XP1	X	X	X	X
E4.2.13	SLD NC-5604 MCC-8A	X	X	X	X
E4.2.14	SLD NC-5604 MCC-8B	X	X	X	X
E4.2.15	SLD NC-5604 CITY 8F6 DP-8SB	X	X	X	X
E4.2.16	SLD NC-5604 CITY DP-8ZB1	X	X	X	X
E4.2.17	SLD NC-5604 DP-8MP (CITY 8F8) AND CITY 8F9 FEEDERS	X	X	X	X

ELECTRICAL

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 02/24/2023
E4.2.18	SLD NC-5604 DP-8LB1 (CITY 8F2)	X	X	X	X
E4.2.19	SLD NC-5604 EMDP-8XB	X	X	X	X
E4.2.20	SLD NC-5604 DP 8SB AND TENANT 8SB	X	X	X	X
E4.2.21	SLD NC-5604 PANEL MC 8GU	X	X	X	X
E4.2.22	SLD NC-5604 PDP32005	X	X	X	X
E4.2.23	SLD NC-5604 PDP32003	X	X	X	X
E4.2.24	SLD NC-5604 PANEL AAL-9D-5/8U			X	X
E6.1.01	ELECTRICAL SCHEDULES (1 of 2)	X	X	X	X
E6.1.02	ELECTRICAL SCHEDULES (2 of 2)	X	X	X	X
E8.2.01	MCC DETAILS	X	X	X	X
E8.2.02	ELECTRICAL DETAILS (1 OF 2)	X	X	X	X
E8.2.03	ELECTRICAL DETAILS (2 OF 2)	X	X	X	X

LIGHTING

EL0.01	LIGHTING GENERAL NOTES			X	X
EL0.02	LIGHTING CONTROLS			X	X
EL0.03	LIGHTING SCHEDULES			X	X
EL1.2.01	OVERALL LIGHTING ZONING PLAN - BASEMENT LEVEL			X	X
EL1.2.02	OVERALL LIGHTING ZONING PLAN - LOWER LEVEL			X	X
EL1.2.03	OVERALL LIGHTING ZONING PLAN - UPPER LEVEL			X	X
EL1.2.04	OVERALL LIGHTING ZONING PLAN - MEZZANINE LEVEL			X	X
EL2.2.01.1G	LIGHTING PLAN BASEMENT LEVEL - AREA 1G			X	X
EL2.2.01.1H	LIGHTING PLAN BASEMENT LEVEL - AREA 1H			X	X
EL2.2.01.2D	LIGHTING PLAN BASEMENT LEVEL - AREA 2D			X	X
EL2.2.01.2E	LIGHTING PLAN BASEMENT LEVEL - AREA 2E			X	X
EL2.2.01.2F	LIGHTING PLAN BASEMENT LEVEL - AREA 2F			X	X
EL2.2.01.2G	LIGHTING PLAN BASEMENT LEVEL - AREA 2G			X	X
EL2.2.01.2H	LIGHTING PLAN BASEMENT LEVEL - AREA 2H			X	X
EL2.2.01.3F	LIGHTING PLAN BASEMENT LEVEL - AREA 3F			X	X
EL2.2.01.3G	LIGHTING PLAN BASEMENT LEVEL - AREA 3G			X	X
EL2.2.01.3H	LIGHTING PLAN BASEMENT LEVEL - AREA 3H			X	X
EL2.2.02.2D	LIGHTING PLAN LOWER LEVEL - AREA 2D			X	X
EL2.2.02.2E	LIGHTING PLAN LOWER LEVEL - AREA 2E			X	X
EL2.2.02.2F	LIGHTING PLAN LOWER LEVEL - AREA 2F			X	X
EL2.2.02.2G	LIGHTING PLAN LOWER LEVEL - AREA 2G			X	X
EL2.2.02.2H	LIGHTING PLAN LOWER LEVEL - AREA 2H			X	X
EL2.2.02.3F	LIGHTING PLAN LOWER LEVEL - AREA 3F			X	X
EL2.2.02.3G	LIGHTING PLAN LOWER LEVEL - AREA 3G			X	X
EL2.2.02.3H	LIGHTING PLAN LOWER LEVEL - AREA 3H			X	X
EL2.2.03.2D	LIGHTING PLAN UPPER LEVEL - AREA 2D			X	X
EL2.2.03.2E	LIGHTING PLAN UPPER LEVEL - AREA 2E			X	X
EL2.2.03.2F	LIGHTING PLAN UPPER LEVEL - AREA 2F			X	X
EL2.2.03.2G	LIGHTING PLAN UPPER LEVEL - AREA 2G			X	X
EL2.2.03.2H	LIGHTING PLAN UPPER LEVEL - AREA 2H			X	X
EL2.2.03.3F	LIGHTING PLAN UPPER LEVEL - AREA 3F			X	X
EL2.2.03.3G	LIGHTING PLAN UPPER LEVEL - AREA 3G			X	X
EL2.2.03.3H	LIGHTING PLAN UPPER LEVEL - AREA 3H			X	X
EL2.2.04.2D	LIGHTING PLAN MEZZANINE LEVEL - AREA 2D			X	X
EL2.2.04.2E	LIGHTING PLAN MEZZANINE LEVEL - AREA 2E			X	X
EL2.2.04.2F	LIGHTING PLAN MEZZANINE LEVEL - AREA 2F			X	X
EL2.2.04.2G	LIGHTING PLAN MEZZANINE LEVEL - AREA 2G			X	X
EL2.2.04.2H	LIGHTING PLAN MEZZANINE LEVEL - AREA 2H			X	X
EL2.2.04.3F	LIGHTING PLAN MEZZANINE LEVEL - AREA 3F			X	X
EL2.2.04.3G	LIGHTING PLAN MEZZANINE LEVEL - AREA 3G			X	X
EL2.2.04.3H	LIGHTING PLAN MEZZANINE LEVEL - AREA 3H			X	X

IT & COMMUNICATIONS

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
T0.01	TELECOM ABBREVIATIONS & SYMBOLS	X	X	X	X
T0.02	TELECOM NOTES	X	X	X	X
TD1.2.01	OVERALL TELECOM DEMO PLAN - BASEMENT ONE	X	X	X	X
TD1.2.02	OVERALL TELECOM DEMO PLAN - LOWER LEVEL	X	X	X	X
TD1.2.03	OVERALL TELECOM DEMO PLAN - UPPER LEVEL	X	X	X	X
TD1.2.04	OVERALL TELECOM DEMO PLAN - MEZZANINE LEVEL	X	X	X	X
T1.2.01	OVERALL SCN ZONING PLAN - BASEMENT ONE	X	X	X	X
T1.2.02	OVERALL SCN ZONING PLAN - LOWER LEVEL	X	X	X	X
T1.2.03	OVERALL SCN ZONING PLAN - UPPER LEVEL	X	X	X	X
T1.2.04	OVERALL SCN ZONING PLAN - MEZZANINE	X	X	X	X
T1.3.02	OVERALL PAS ZONING PLAN - LOWER LEVEL				X
T1.3.03	OVERALL PAS ZONING PLAN - UPPER LEVEL				X
T1.3.04	OVERALL PAS ZONING PLAN - MEZZANINE				X
T2.1.01.2H	ENLARGED TELECOM PLAN - BASEMENT ONE - AREA 2H		X	X	X
T2.1.02.2D	ENLARGED TELECOM PLAN - LOWER LEVEL - AREA 2D		X	X	X
T2.1.02.2E	ENLARGED TELECOM PLAN - LOWER LEVEL - AREA 2E		X	X	X
T2.1.02.2F	ENLARGED TELECOM PLAN - LOWER LEVEL - AREA 2F		X	X	X
T2.1.02.2G	ENLARGED TELECOM PLAN - LOWER LEVEL - AREA 2G		X	X	X
T2.1.02.2H	ENLARGED TELECOM PLAN - LOWER LEVEL - AREA 2H		X	X	X
T2.1.02.3H	ENLARGED TELECOM PLAN - LOWER LEVEL - AREA 3H		X	X	X
T2.1.03.2D	ENLARGED TELECOM PLAN - UPPER LEVEL - AREA 2D		X	X	X
T2.1.03.2E	ENLARGED TELECOM PLAN - UPPER LEVEL - AREA 2E		X	X	X
T2.1.03.2F	ENLARGED TELECOM PLAN - UPPER LEVEL - AREA 2F		X	X	X
T2.1.03.2G	ENLARGED TELECOM PLAN - UPPER LEVEL - AREA 2G		X	X	X
T2.1.03.2H	ENLARGED TELECOM PLAN - UPPER LEVEL - AREA 2H		X	X	X
T2.1.03.3G	ENLARGED TELECOM PLAN - UPPER LEVEL - AREA 3G		X	X	X
T2.2.02.2D	ENLARGED TELECOM REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2D		X	X	X
T2.2.02.2E	ENLARGED TELECOM REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2E		X	X	X
T2.2.02.2F	ENLARGED TELECOM REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2F		X	X	X
T2.2.02.2G	ENLARGED TELECOM REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2G		X	X	X
T2.2.02.2H	ENLARGED TELECOM REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2H		X	X	X
T2.2.03.2D	ENLARGED TELECOM REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2D		X	X	X
T2.2.03.2E	ENLARGED TELECOM REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2E		X	X	X
T2.2.03.2F	ENLARGED TELECOM REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2F		X	X	X
T2.2.03.2G	ENLARGED TELECOM REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2G		X	X	X
T2.2.03.2H	ENLARGED TELECOM REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2H		X	X	X
T2.2.03.3G	ENLARGED TELECOM REFLECTED CEILING PLAN - UPPER LEVEL - AREA 3G		X	X	X
T2.2.03.3H	ENLARGED TELECOM REFLECTED CEILING PLAN - UPPER LEVEL - AREA 3H		X	X	X
T2.2.04.2G	ENLARGED TELECOM REFLECTED CEILING PLAN - MEZZANINE - AREA 2G		X	X	X
T2.2.04.2H	ENLARGED TELECOM REFLECTED CEILING PLAN - MEZZANINE - AREA 2H		X	X	X
T4.1.01	SCHEMATIC DIAGRAM - LAN / WDN / VOIP / MCS	X	X	X	X
T4.1.02	SCHEMATIC DIAGRAM - PAS	X	X	X	X
T4.1.03	SCHEMATIC DIAGRAM - EVIDS	X	X	X	X
T4.1.04	SCHEMATIC DIAGRAM - INTERCOM SYSTEM	X	X	X	X
T4.1.05	SCHEMATIC DIAGRAM - ECS	X	X	X	X
T4.1.06	SCHEMATIC DIAGRAM - PMR	X	X	X	X
T4.1.07	SCHEMATIC DIAGRAM - DAS	X	X	X	X
T7.1.01	TELECOM FACEPLATE AND DEVICE BOX DETAILS				X
T7.1.02	TELECOM FACEPLATE AND DEVICE BOX DETAILS				X
T7.1.03	TELECOM FACEPLATE AND DEVICE BOX DETAILS				X
T7.1.04	PAS SPEAKER AND AMBIENT NOISE SENSOR MOUNTING DETAILS				X
T7.1.05	TELECOM WIRELESS ACCESS POINT MOUNTING DETAILS				X
T7.1.06	TELECOM STRUCTURED CABLING SYSTEM DETAILS				X
T7.1.07	EVIDS DISPLAY DETAILS				X
T7.1.08	COMM PAS, FIDS/GIDS, AND OUTLET DETAILS				X
T8.1.01	TELECOM SCHEDULES				X

VOLUME 4 - UNDER SEPERATE COVER

SECURITY

NUMBER	NAME	PRICING 11/11/2022	30% 11/30/2022	ISSUE FOR BID	60% 03/24/2023
Y0.01	SECURITY NOTES, ABBREVIATIONS, & SYMBOLS	X	X	X	X
Y0.03	SECURITY GUIDELINES - VSS	X	X	X	X
YD1.2.01	OVERALL SECURITY DEMO PLAN - BASEMENT ONE	X	X	X	X
YD1.2.02	OVERALL SECURITY DEMO PLAN - LOWER LEVEL	X	X	X	X
YD1.2.03	OVERALL SECURITY DEMO PLAN - UPPER LEVEL	X	X	X	X
YD1.2.04	OVERALL SECURITY DEMO PLAN - MEZZANINE	X	X	X	X
YD1.2.05	OVERALL SECURITY DEMO PLAN - ROOF LEVEL	X	X	X	X
Y1.2.01	OVERALL SECURITY ZONING PLAN - BASEMENT ONE	X	X	X	X
Y1.2.02	OVERALL SECURITY ZONING PLAN - LOWER LEVEL	X	X	X	X
Y1.2.03	OVERALL SECURITY ZONING PLAN - UPPER LEVEL	X	X	X	X
Y1.2.04	OVERALL SECURITY ZONING PLAN - MEZZANINE	X	X	X	X
Y2.1.01.2H	ENLARGED SECURITY PLAN - BASEMENT ONE - AREA 2H		X	X	X
Y2.1.02.2D	ENLARGED SECURITY PLAN - LOWER LEVEL - AREA 2D		X	X	X
Y2.1.02.2E	ENLARGED SECURITY PLAN - LOWER LEVEL - AREA 2E		X	X	X
Y2.1.02.2F	ENLARGED SECURITY PLAN - LOWER LEVEL - AREA 2F		X	X	X
Y2.1.02.2G	ENLARGED SECURITY PLAN - LOWER LEVEL - AREA 2G		X	X	X
Y2.1.02.2H	ENLARGED SECURITY PLAN - LOWER LEVEL - AREA 2H		X	X	X
Y2.1.02.3G	ENLARGED SECURITY PLAN - LOWER LEVEL - AREA 3G		X	X	X
Y2.1.03.2D	ENLARGED SECURITY PLAN - UPPER LEVEL - AREA 2D		X	X	X
Y2.1.03.2E	ENLARGED SECURITY PLAN - UPPER LEVEL - AREA 2E		X	X	X
Y2.1.03.2F	ENLARGED SECURITY PLAN - UPPER LEVEL - AREA 2F		X	X	X
Y2.1.03.2G	ENLARGED SECURITY PLAN - UPPER LEVEL - AREA 2G		X	X	X
Y2.1.03.2H	ENLARGED SECURITY PLAN - UPPER LEVEL - AREA 2H		X	X	X
Y2.1.03.3G	ENLARGED SECURITY PLAN - UPPER LEVEL - AREA 3G		X	X	X
Y2.2.02.2D	ENLARGED SECURITY REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2D		X	X	X
Y2.2.02.2E	ENLARGED SECURITY REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2E		X	X	X
Y2.2.02.2F	ENLARGED SECURITY REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2F		X	X	X
Y2.2.02.2G	ENLARGED SECURITY REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2G		X	X	X
Y2.2.02.2H	ENLARGED SECURITY REFLECTED CEILING PLAN - LOWER LEVEL - AREA 2H		X	X	X
Y2.2.03.2E	ENLARGED SECURITY REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2E		X	X	X
Y2.2.03.2F	ENLARGED SECURITY REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2F		X	X	X
Y2.2.03.2G	ENLARGED SECURITY REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2G		X	X	X
Y2.2.03.2H	ENLARGED SECURITY REFLECTED CEILING PLAN - UPPER LEVEL - AREA 2H		X	X	X
Y2.2.03.3G	ENLARGED SECURITY REFLECTED CEILING PLAN - UPPER LEVEL - AREA 3G		X	X	X
Y2.2.04.2G	ENLARGED SECURITY REFLECTED CEILING PLAN - MEZZANINE - AREA 2G		X	X	X
Y2.2.04.2H	ENLARGED SECURITY REFLECTED CEILING PLAN - MEZZANINE - AREA 2H		X	X	X
Y4.1.01	SCHEMATIC DIAGRAM - SACS	X	X	X	X
Y4.1.02	SCHEMATIC DIAGRAM - VSS	X	X	X	X
Y7.1.01	DOOR DETAILS			X	X
Y7.1.02	DOOR DETAILS			X	X
Y7.1.03	DOOR DETAILS			X	X
Y7.1.04	DOOR DETAILS			X	X
Y7.1.05	DOOR DETAILS			X	X
Y7.1.06	DOOR DETAILS			X	X
Y7.1.07	DOOR DETAILS			X	X
Y7.1.08	DOOR DETAILS			X	X
Y7.1.09	DOOR DETAILS			X	X
Y7.1.10	DOOR DETAILS			X	X
Y7.2.01	CAMERA DETAILS			X	X
Y7.2.02	CAMERA DETAILS			X	X
Y8.1.01	CAMERA SCHEDULES			X	X
Y8.2.01	DOOR SCHEDULES			X	X

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT

StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
50% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

SHEET INDEX

DRAWN BY: **JA**
CHECKED BY: **LA**

SHEET NUMBER
G1.12

VOLUME: **1**

3/24/2023 1:36:44 PM

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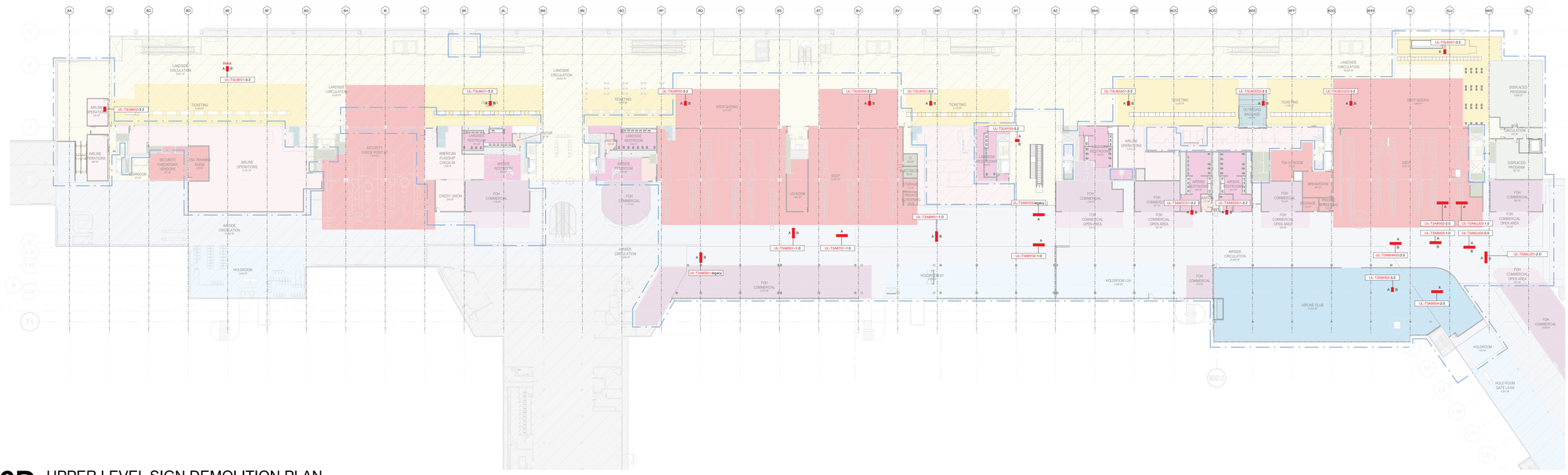
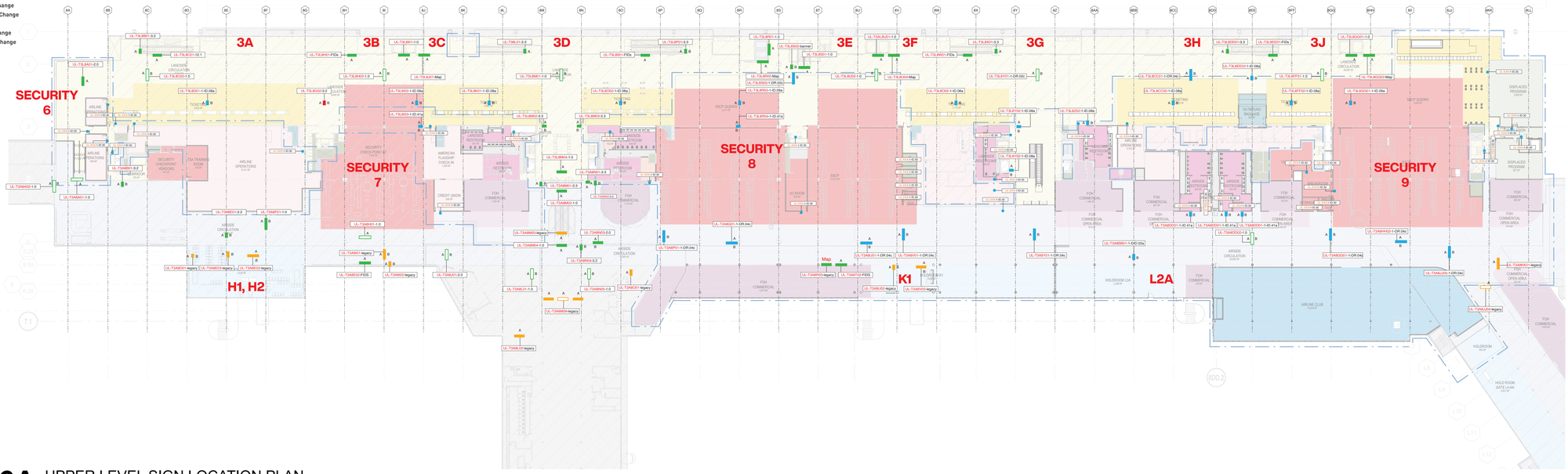


6D UPPER LEVEL SIGN DEMOLITION PLAN
NOT TO SCALE

Existing Sign No Message Change
Existing Sign With Message Change
New Sign (Master Plan)
Legacy Sign No Message Change
Legacy Sign With Message Change



6A UPPER LEVEL SIGN LOCATION PLAN
NOT TO SCALE

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
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CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
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Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **50% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

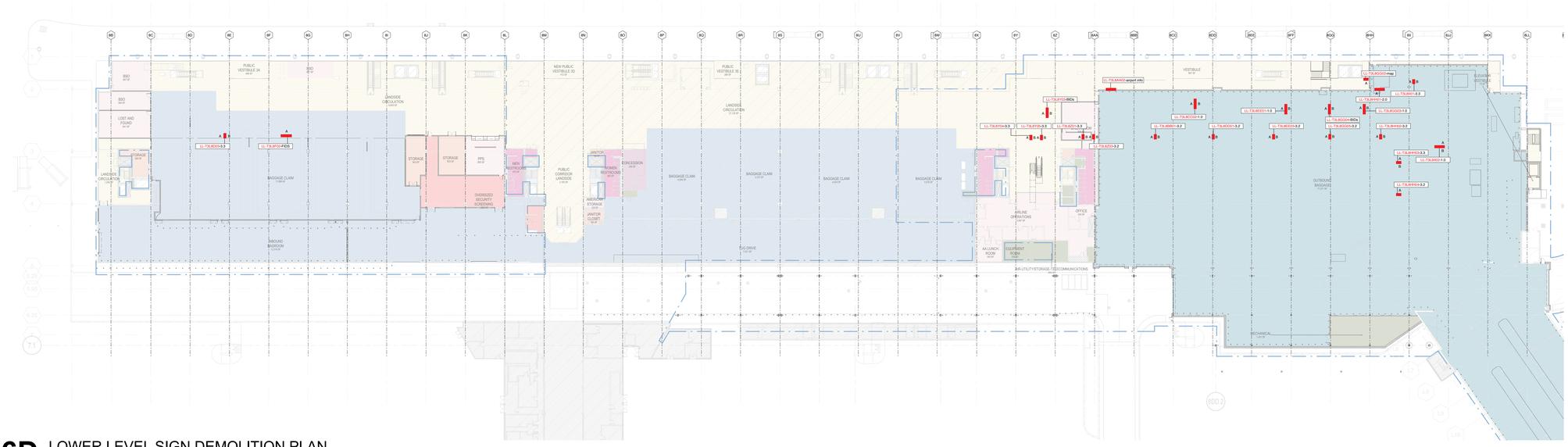
KEYPLAN

SIGN PLAN - UPPER LEVEL

DRAWN BY: **TK** CHECKED BY: **TK**

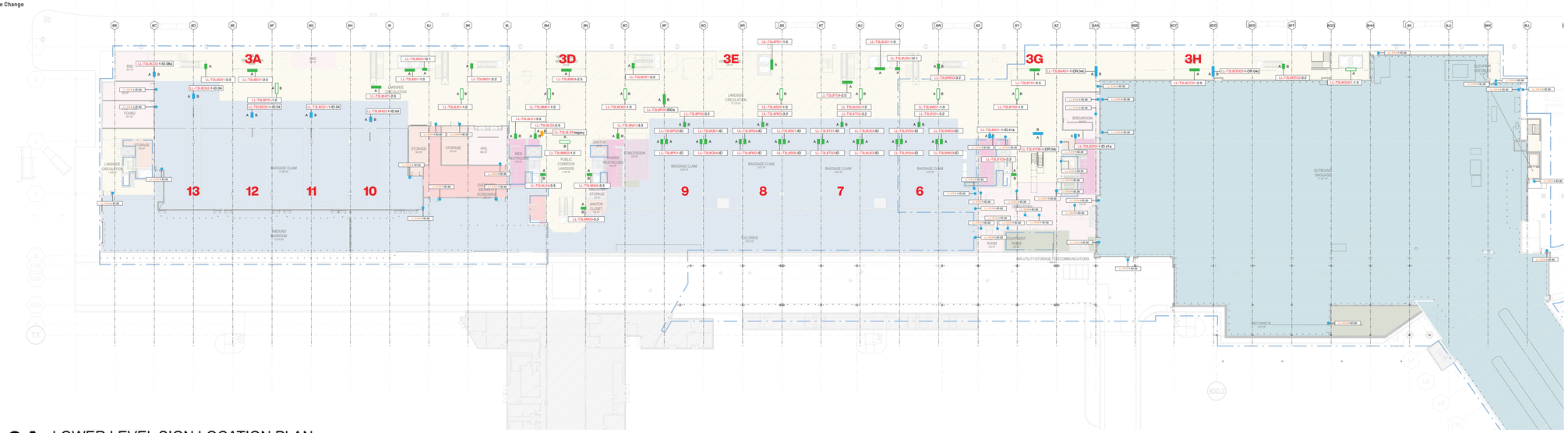
SHEET NUMBER
IG0.1.01

Existing Sign Removed



6D LOWER LEVEL SIGN DEMOLITION PLAN
NOT TO SCALE

Existing Sign No Message Change
Existing Sign With Message Change
New Sign (Master Plan)
Legacy Sign No Message Change
Legacy Sign With Message Change



6A LOWER LEVEL SIGN LOCATION PLAN
NOT TO SCALE

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

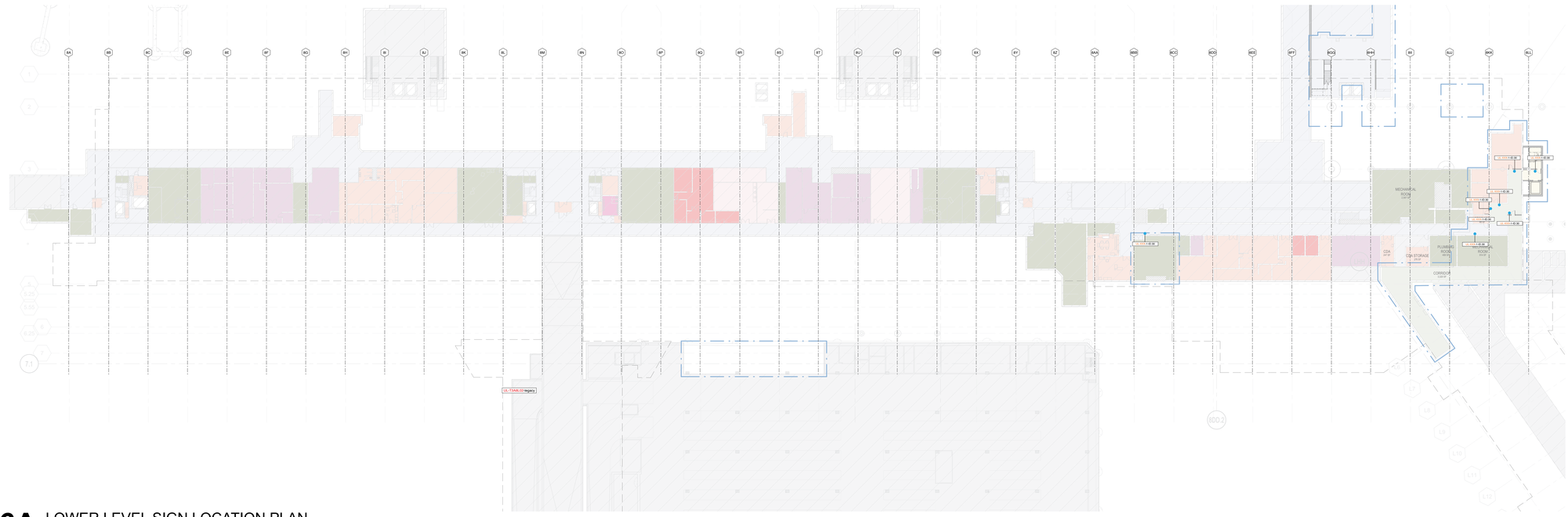
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: 60% DESIGN
PACKAGE ISSUE DATE: 03/24/2023
PHASE: DD
REVISION: --
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: C.O.C.A.002.01
KEYPLAN

SIGN PLAN - LOWER LEVEL

DRAWN BY: TK
CHECKED BY: TK
SHEET NUMBER
IG0.1.02



6A LOWER LEVEL SIGN LOCATION PLAN

NOT TO SCALE

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

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CHICAGO DEPARTMENT OF AVIATION

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ISSUANCE: **50% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

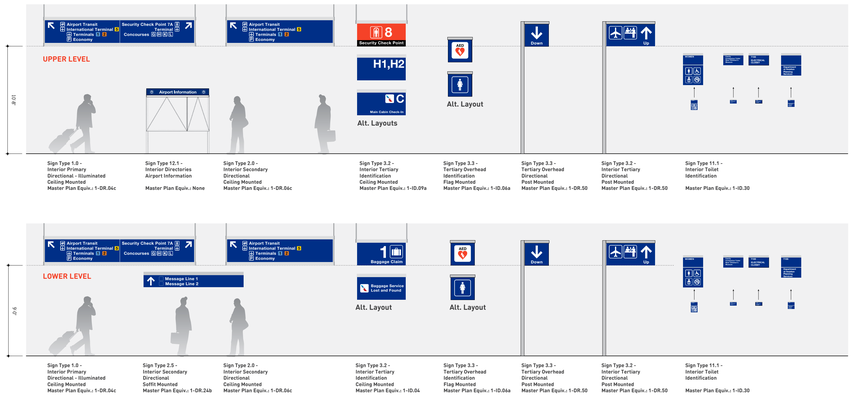
KEYPLAN

SIGN PLAN - BASEMENT

DRAWN BY: **TK** CHECKED BY: **TK**

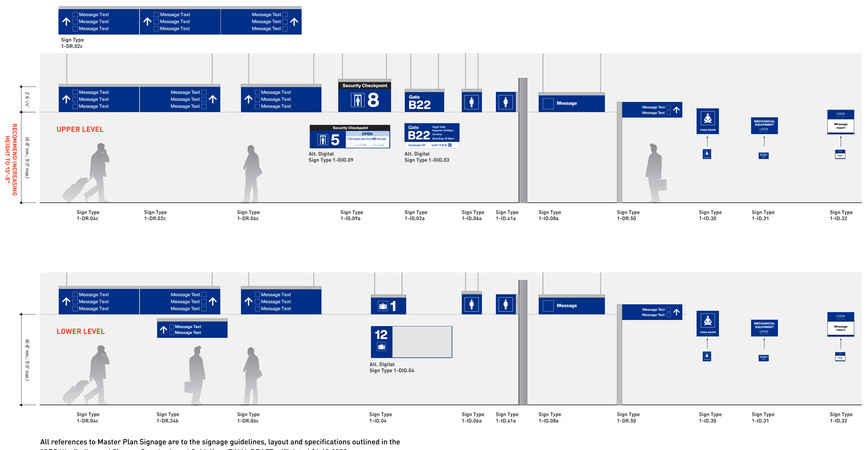
SHEET NUMBER
IG0.1.03

Sign Type Overview



Scale: 3/16"=1'-0"

6D EXISTING SIGN TYPE OVERVIEW
3/16" = 1'-0"



All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

Scale: 3/16"=1'-0"

1D MASTER PLAN SIGN TYPE OVERVIEW
3/16" = 1'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA CHICAGO DEPARTMENT OF AVIATION

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PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

SIGN TYPE OVERVIEW - EXISTING & MASTERPLAN

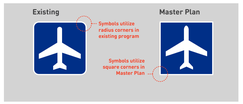
DRAWN BY: **TK** CHECKED BY: **TK**

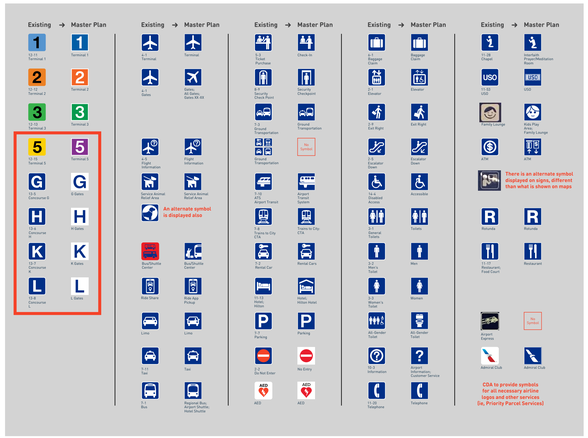
SHEET NUMBER
IG0.1.04

Symbols Comparison

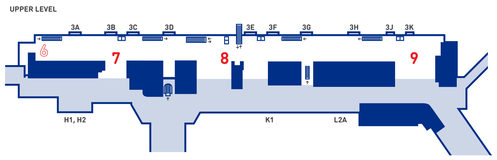
The existing symbol icons utilized in Terminal 3 correspond to the CDA standards utilized throughout all Terminals and outside of the scope area on all signage throughout the concourses, curbside, mapping and information graphics.

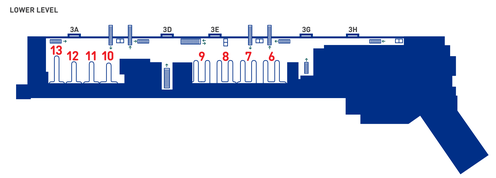
CDA to determine which symbols show here should be utilized for the Terminal 3 signage updates.





Terminology Confirmation





All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

6D SYMBOLS
N.T.S.

6D TERMINOLOGY
N.T.S.

1.5 COLOR

Airport-wide ORD Colors

Hardware	Sign Face Background	Dark Gray Header	Exit Green	Black Graphics	White Graphics	Safety Red	Warning Yellow	DOT Legend Green
PMS1 (Pantone Matching System) N/A: Not used	PMS2 (Pantone Matching System) PMS 287C (Solid Coated)	PMS3 (Pantone Matching System) PMS 433C (Solid Coated)	PMS4 (Pantone Matching System) PMS 362C (Solid Coated)	PMS5 (Pantone Matching System) PMS Black C (Solid Coated)	PMS6 (Pantone Matching System) N/A: Not used	PMS7 (Pantone Matching System) PMS 186C (Solid Coated)	PMS8 (Pantone Matching System) PMS 116C (Solid Coated)	PMS9 (Pantone Matching System) PMS 342C (Solid Coated)
D1 (Digital Print Equivalent) N/A: Not used	D2 (Digital Print Equivalent) Match PMS 287C: C:100 M:61 Y:0 K:23	D3 (Digital Print Equivalent) Match PMS 433C: Roadway Signs = Picasso print on DG3 C:0 M:0 Y:0 K:90 (cool gray)	D4 (Digital Print Equivalent) C:73 M:15 Y:100 K:2	D5 (Digital Print Equivalent) C:50 M:40 Y:40 K:100: Roadway signs = Picasso print on DG3 C:0 M:0 Y:0 K:0 (cool gray)	D6 (Digital Print Equivalent) White = C:0 M:0 Y:0 K:0 3M 4090 DG3 White (showing thru)	D7 (Digital Print Equivalent) Match PMS 186C	D8 (Digital Print Equivalent) Match PMS 116C	D9 (Digital Print Equivalent) Match PMS 342C
E1 (Digital Display Equivalent) N/A: Not used	E2 (Digital Display Equivalent) HEX/HTML #003087 R:0 G:48 B:135	E3 (Digital Display Equivalent) HEX/HTML #1D252D R:29 G:37 B:45	E4 (Digital Display Equivalent) HEX/HTML #509E2F R:80 G:158 B:47	E5 (Digital Display Equivalent) HEX/HTML #000000 R:0 G:0 B:0	E6 (Digital Display Equivalent) HEX/HTML #FFFFFF R:255 G:255 B:255	E7 (Digital Display Equivalent) HEX/HTML #C81D2E R:0 G:0 B:0	E8 (Digital Display Equivalent) HEX/HTML #FFCD00 R:255 G:205 B:0	E9 (Digital Display Equivalent) HEX/HTML #006747 R:0 G:103 B:71
P1 (Paint Equivalent) N/A: Not used	P2 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) MP 2171, Satin Finish or PMS 287C Match	P3 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 433C, Satin Finish	P4 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 362C, Satin Finish	P5 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS Black C Satin Finish	P6 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) MP N222, Satin Finish	P7 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 186C, Satin Finish	P8 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 116C, Satin Finish	P9 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 342C, Satin Finish
V1 (Vinyl Film Equivalent) N/A: Not used	V2 (Vinyl Film Equivalent) 3M match TBD	V3 (Vinyl Film Equivalent) Use digital print equivalent on White film	V4 (Vinyl Film Equivalent) Use digital print equivalent on White film	V5 (Vinyl Film Equivalent) Opaque: 3M 7725-22 Black	V6 (Vinyl Film Equivalent) V6.1 Opaque: 3M 7725-20 White V6.2 Reflective: 3M 4090 DG3 White V6.3 Tactile: White, match V6.1 V6.4 Translucent: White plex, match V6.1	V7 (Vinyl Film Equivalent) Reflective : 3M 4092 DG3 Red	V8 (Vinyl Film Equivalent) Reflective : 3M 4091 DG3 Yellow	V9 (Vinyl Film Equivalent) Reflective : 3M 4097 DG3 Green

Terminal Colors

Terminal 1 ID	Terminal 2 ID	Terminal 3 ID	Terminal 5 ID	Future Terminal ID
PMS10 (Pantone Matching System) PMS 2935C (Solid Coated)	PMS11 (Pantone Matching System) PMS Bright Orange C (Solid Coated)	PMS12 (Pantone Matching System) PMS 347C (Solid Coated)	PMS13 (Pantone Matching System) PMS 2602C (Solid Coated)	PMS14 (Pantone Matching System) PMS Rubine Red CP (Color Bridge Coated)
D10 (Digital Print Equivalent) Match PMS 2935C: Roadway signs= Picasso print on DG3 C:100 M:63 Y:0 K:2	D11 (Digital Print Equivalent) Match PMS Bright Orange C: Roadway signs = Picasso print on DG3 C:0 M:77 Y:100 K:0	D12 (Digital Print Equivalent) Match PMS 347C: Roadway Signs = Picasso print on DG3 C:92 M:0 Y:97 K:0	D13 (Digital Print Equivalent) Match PMS 2602C: Roadway signs = Picasso printEon DG3 C:58 M:99 Y:8 K:0	D14 (Digital Print Equivalent) Match PMS Rubine Red CP: Roadway signs = Picasso Prog on DG3 C:0 M:100 Y:24 K:4
E10 (Digital Display Equivalent) HEX/HTML: 0057B7 R:0 G:87 B:183	E11 (Digital Display Equivalent) HEX/HTML #FF5E00 R:255 G:94 B:0	E12 (Digital Display Equivalent) HEX/HTML #009A44 R:0 G:154 B:68	E13 (Digital Display Equivalent) HEX/HTML #871899D R:135 G:24 B:157	E14 (Digital Display Equivalent) HEX/HTML #D61E5C R:214 G:30 B:92
P10 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 2935C, Satin Finish	P11 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) PMS Bright Orange C, Satin Finish	P12 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 347C, Satin Finish	P13 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS 2602C, Satin Finish	P14 (Paint Equivalent) Matthews Acrylic Polyurethane (MAP) to match PMS Rubine Red CP, Satin Finish
V10 (Vinyl Film Equivalent) Use Digital Print Equivalent on White film	V11 (Vinyl Film Equivalent) Use digital print equivalent on White film	V12 (Vinyl Film Equivalent) Use digital print equivalent on White film	V13 (Vinyl Film Equivalent) Use digital print equivalent on White film	V14 (Vinyl Film Equivalent) Use digital print equivalent on White film

Figure 1.5.1 ORD Wayfinding Color System

FINAL DRAFT

1D COLOR
N.T.S.

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

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JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

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STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **50% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
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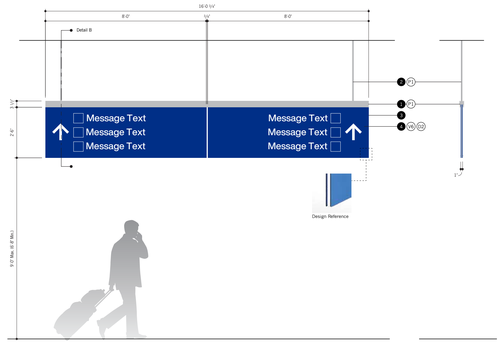
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**
KEYPLAN

SYMBOLS, COLOR, TERMINOLOGY

DRAWN BY: **TK** CHECKED BY: **TK**
SHEET NUMBER
IG0.1.05



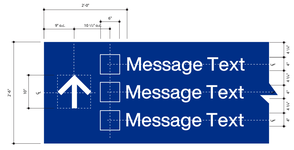
FRONT ELEVATION - 1-DR.04c
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"

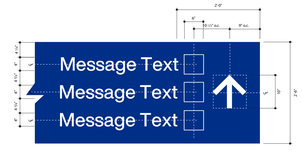
SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting)
   2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED Illumination
2. Power Feed / Suspension
   Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

   MOUNTING: mount plumb & level w/ hidden structural blocking/fabricated unistrut (above finished ceiling line) Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at ceiling connection point to cover install holes.
3. LED Light Panel (Core)
   Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges
4. Graphic Panel(s)
   Polycarbonate w/ applied translucent white film - V6 first surface opaque digitally printed graphics - D2 Drop-out white lettering/graphics to illuminate. Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Manf.)



GRAPHIC DETAIL - 1-DR.04c - LEFT ALIGNED
Scale: 3/4" = 1'-0"



GRAPHIC DETAIL - 1-DR.04c - RIGHT ALIGNED
Scale: 3/4" = 1'-0"

6E SIGN TYPE 1-DR.04C - OVERHEAD DIRECTIONAL
3/8" = 1'-0"

FRONT ELEVATION - 1-DR.06c
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"

GRAPHIC DETAIL - LEFT ALIGNED
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
   2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED Illumination
2. Power Feed / Suspension
   Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

   MOUNTING: mount plumb & level w/ hidden structural blocking/fabricated unistrut (above finished ceiling line) Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at ceiling connection point to cover install holes.
3. LED Light Panel (Core)
   Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges
4. Graphic Panel(s)
   Polycarbonate w/ applied translucent white film - V6 first surface opaque digitally printed graphics - D2 Drop-out white lettering/graphics to illuminate. Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Manf.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

1E SIGN TYPE 1-DR.06C - OVERHEAD DIRECTIONAL
3/8" = 1'-0"

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DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
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JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

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PRIME CONSULTANT
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STAMPING CONSULTANT

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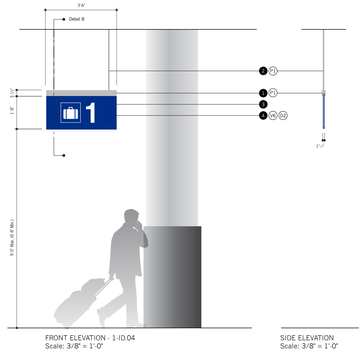
NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**
KEYPLAN

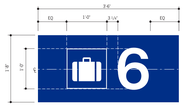
SIGN TYPE DETAILS AND CONSTRUCTION INFORMATION

DRAWN BY: **TK** CHECKED BY: **TK**
SHEET NUMBER
IG0.1.06



FRONT ELEVATION - 1-ID.04
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED illumination

2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

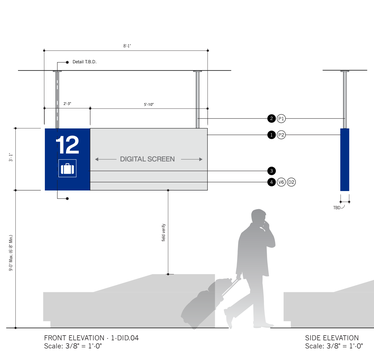
MOUNTING: mount plumb & level w/ hidden structural blocking/fabricated unistrut (above finished ceiling line) Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at ceiling connection point to cover install holes.

3. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6
first surface opaque digitally printed graphics - D2
Drop-out white lettering/graphics to illuminate.
Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Manf.)

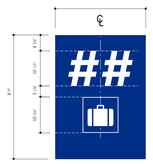
LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

6E SIGN TYPE 1-ID.04 - BAG CLAIM IDENTIFICATION
3/8" = 1'-0"



FRONT ELEVATION - 1-DID.04
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/8" = 1'-0"

SPECIFICATIONS

1. DIGITAL SCREEN UNIT(S): Digital unit TBD.
Run power/data to sign as required; final screen content to be determined and confirmed by ORD; remote content management by ORD required.
Outer Cabinet Frame - Paint P2

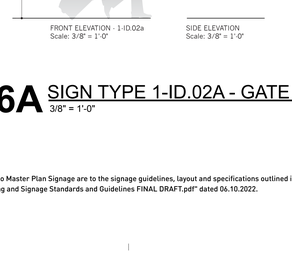
2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

MOUNTING: mount plumb & level w/ hidden (above finished ceiling line) structural blocking/fabricated unistrut & threaded rod/mech. fastener system to building's structural elements as install location conditions require (field verify); threaded rods run vertical inside suspension tubes; all mech. mounting connections hidden inside channel box & above ceiling line; alum. suspension cover tubes with alum. escutcheon cover plate at ceiling connection point to cover install holes, paint all exposed surfaces with MAP paint to match P1, satin finish

3. Sign Cabinet
Fabricated Sign Cabinet w/ internal LED lighting

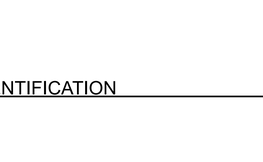
4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6
first surface opaque digitally printed graphics - D2
Drop-out white lettering/graphics to illuminate.

1E SIGN TYPE 1-DID.04 - DIGITAL BAG CLAIM IDENTIFICATION
3/8" = 1'-0"



FRONT ELEVATION - 1-ID.09a
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED illumination

2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

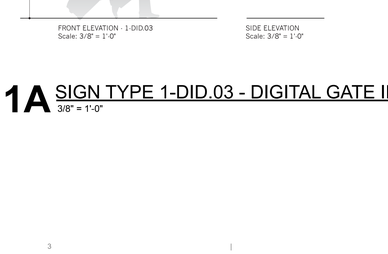
MOUNTING: mount plumb & level w/ hidden structural blocking/fabricated unistrut (above finished ceiling line) Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at ceiling connection point to cover install holes.

3. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6
first surface opaque digitally printed graphics - D2
Drop-out white lettering/graphics to illuminate.
Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Manf.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

6C SIGN TYPE 1-ID.09A - SECURITY CHECKPOINT IDENTIFICATION
3/8" = 1'-0"



FRONT ELEVATION - 1-DID.09
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/8" = 1'-0"

SPECIFICATIONS

1. DIGITAL SCREEN UNIT(S): Digital unit TBD.
Run power/data to sign as required; final screen content to be determined and confirmed by ORD; remote content management by ORD required.
Outer Cabinet Frame - Paint P2

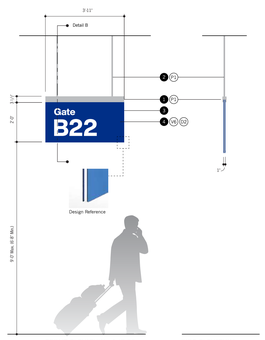
2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

MOUNTING: mount plumb & level w/ hidden (above finished ceiling line) structural blocking/fabricated unistrut & threaded rod/mech. fastener system to building's structural elements as install location conditions require (field verify); threaded rods run vertical inside suspension tubes; all mech. mounting connections hidden inside channel box & above ceiling line; alum. suspension cover tubes with alum. escutcheon cover plate at ceiling connection point to cover install holes, paint all exposed surfaces with MAP paint to match P1, satin finish

3. Sign Cabinet
Fabricated Sign Cabinet w/ internal LED lighting

4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6
first surface opaque digitally printed graphics - D2
Drop-out white lettering/graphics to illuminate.

1C SIGN TYPE 1-DID.09 - DIGITAL SECURITY CHECKPOINT IDENTIFICATION
3/8" = 1'-0"



FRONT ELEVATION - 1-ID.02a
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED illumination

2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

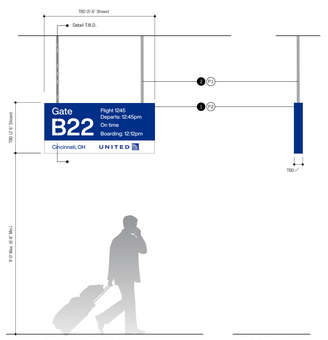
MOUNTING: mount plumb & level w/ hidden structural blocking/fabricated unistrut (above finished ceiling line) Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at ceiling connection point to cover install holes.

3. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6
first surface opaque digitally printed graphics - D2
Drop-out white lettering/graphics to illuminate.
Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Manf.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

6A SIGN TYPE 1-ID.02A - GATE IDENTIFICATION
3/8" = 1'-0"



FRONT ELEVATION - 1-DID.03
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"

SPECIFICATIONS

1. DIGITAL SCREEN UNIT(S): Digital unit TBD.
Run power/data to sign as required; final screen content to be determined and confirmed by ORD; remote content management by ORD required.
Outer Cabinet Frame - Paint P2

2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

MOUNTING: mount plumb & level w/ hidden (above finished ceiling line) structural blocking/fabricated unistrut & threaded rod/mech. fastener system to building's structural elements as install location conditions require (field verify); threaded rods run vertical inside suspension tubes; all mech. mounting connections hidden inside channel box & above ceiling line; alum. suspension cover tubes with alum. escutcheon cover plate at ceiling connection point to cover install holes, paint all exposed surfaces with MAP paint to match P1, satin finish

1A SIGN TYPE 1-DID.03 - DIGITAL GATE IDENTIFICATION
3/8" = 1'-0"

All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

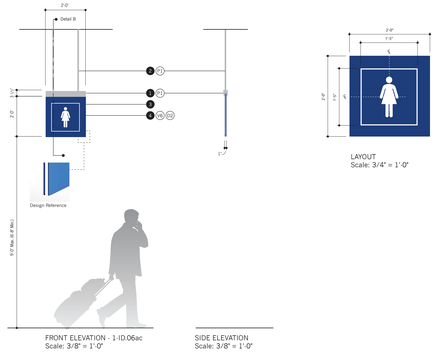
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

SIGN TYPE DETAILS AND CONSTRUCTION INFORMATION

DRAWN BY: **TK** CHECKED BY: **TK**

SHEET NUMBER
IG0.1.07



FRONT ELEVATION - 1-ID.06ac
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"

LAYOUT
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED Illumination

2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

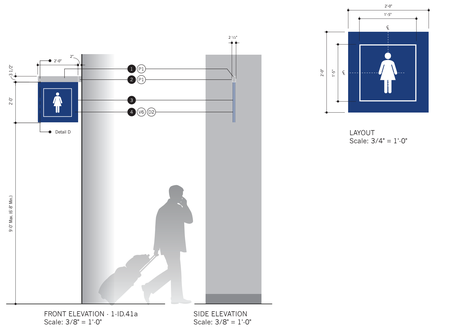
MOUNTING: mount plumb & level w/ hidden structural blocking/fabricated unistrut (above finished ceiling line) Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at ceiling connection point to cover install holes.

3. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6 first surface opaque digitally printed graphics - D2 Drop-out white lettering/graphics to illuminate. Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Mant.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

6E SIGN TYPE 1-DR.06AC - SUSPENDED IDENTIFICATION
3/8" = 1'-0"



FRONT ELEVATION - 1-ID.41a
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"

LAYOUT
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED Illumination

2. Power Feed Support Structure
Structural Aluminum Support w/ Cantilever Bracket for Sign Extrustion. Power feed through support to sign structure. Paint P1

MOUNTING: mount plumb & level w/ hidden structural Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at wall connection point to cover install holes.

3. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

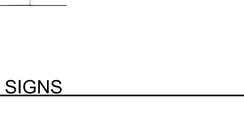
4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6 first surface opaque digitally printed graphics - D2 Drop-out white lettering/graphics to illuminate. Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Mant.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

1E SIGN TYPE 1-DR.41A - FLAG IDENTIFICATION
3/8" = 1'-0"

FRONT ELEVATION - 1-ID.08a
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED Illumination

2. Power Feed / Suspension
Aluminum threaded rod with painted finish. Power feed through rod to sign structure. P1

MOUNTING: mount plumb & level w/ hidden structural blocking/fabricated unistrut (above finished ceiling line) Threaded rod/mechanical fastening to building's structural elements as install location conditions require (field verify). Escutcheon cover plate at ceiling connection point to cover install holes.

3. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

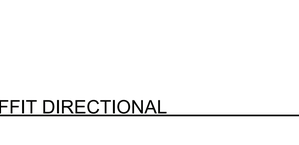
4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6 first surface opaque digitally printed graphics - D2 Drop-out white lettering/graphics to illuminate. Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Mant.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

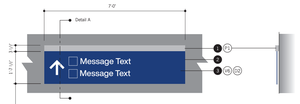
6C SIGN TYPE 1-ID.08A - SERVICES IDENTIFICATION
3/8" = 1'-0"

FRONT ELEVATION - 1-DR.50
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/4" = 1'-0"



SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED Illumination

2. Power Feed Support Structure
6" x 6" Structural Aluminum Support Post w/ Cantilever Bracket for Sign Extrustion. Power feed through rod to sign structure. Paint P1

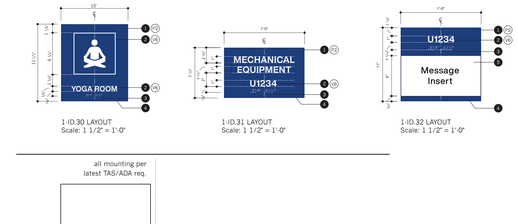
MOUNTING: mount plumb & level w/ hidden structural blocking support in Post. Mechanical fastening plate at base to building's structural elements as install location conditions require (field verify).

3. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

4. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6 first surface opaque digitally printed graphics - D2 Drop-out white lettering/graphics to illuminate. Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Mant.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

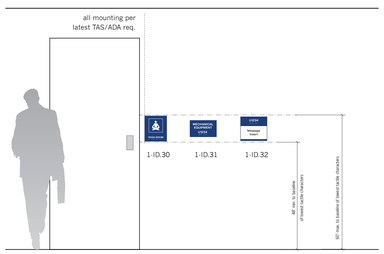
1C SIGN TYPE 1-DR.50 - POST MOUNT DIRECTIONAL
3/8" = 1'-0"



1-ID.30 LAYOUT
Scale: 1 1/2" = 1'-0"

1-ID.31 LAYOUT
Scale: 1 1/2" = 1'-0"

1-ID.32 LAYOUT
Scale: 1 1/2" = 1'-0"



TYPICAL ELEVATION
Scale: 1/2" = 1'-0"

SPECIFICATIONS

1. Sign Panel
1/4" thick thermoformed acrylic panel, edges sanded smooth & eased, paint 2nd surface
Paint P2

2. Lettering
1st surface 1/32" raised tactile letters/graphics
Paint V6.1

3. Braille
1st surface tactile Braille, no color applied
NOTE: Braille must meet all of the most recent ADA requirements

4. Mounting
mounting height and location/proximity to doors, strike plates & finished entry openings per most recent ADA requirements; mount plumb & level with adhesive/high-bond strength sign grade VHB tape (or approved equal) as install conditions require (field verify).

L1 Typeface: Helvetica Now Display Medium
L2 Typeface: Helvetica Now Display Bold
S1 Symbols: Use only official ORD wayfinding symbols
A1 Arrow(s): Use only official ORD wayfinding arrows

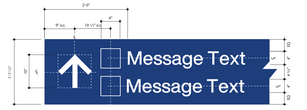
5. Paper Insert
Mask + Spray Sign Panel at Paper Insert Area
Use Backer as required. Printed Paper Insert - by Client

6A SIGN TYPE 1-ID.30-31-32 DOOR SIGNS
3/8" = 1'-0"

All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

FRONT ELEVATION - 1-DR.24b
Scale: 3/8" = 1'-0"

SIDE ELEVATION
Scale: 3/8" = 1'-0"



LAYOUT
Scale: 3/4" = 1'-0"

SPECIFICATIONS

1. Smart Sign Housing (by Insight Lighting) *
2-Piece extruded aluminum housing assembly w/ integrated 5000k Cool White linear LED Illumination
Secure Directly to Wall Surface
Paint P1 - All Surfaces

2. LED Light Panel (Core)
Laser-etched transparent acrylic core anchored to inner extruded aluminum Smart Sign housing at LED lighting Use Optional Edge Diffuser on exposed Light Panel edges

3. Graphic Panel(s)
Polycarbonate w/ applied translucent white film - V6 first surface opaque digitally printed graphics - D2 Drop-out white lettering/graphics to illuminate. Insert to inner extruded aluminum Smart Sign housing at top Secure to LED Light Panel Stud Fasteners w/ Rosette(s) at bottom (Qty. + Spacing as required by Mant.)

LED EDGE LIT TECHNOLOGY ILLUMINATION*
LEDs, Basis-of-Design Product: Subject to compliance with requirements, provide ultra-compact, surface mount, high power LEDs provided by Insight Lighting, or Owner approved equal.
1. Surface uniformity of no less than 1.6:1 on both sides of the panel face and a surface luminance; not less than 500 minimum flux and an average at least 600 flux.
2. Shall not exceed a total load of 8 watts/ft at a drive current not to exceed 280 ma. with a total electrical draw of less than 70 watts per 8 foot module.
3. All LED platforms shall contain on-board thermal management features to ensure long life and maximum performance.
4. Shall utilize 5000 Kelvin degree temperature LED platforms with a maximum variance of +/- 200 degrees.
5. Shall provide USA manufactured and assembled LED platforms.
6. Shall allow for easy interface of 0-10 volt control devices.
7. Shall provide all electronics and power supplies with plug and play connectors.
8. Shall provide a single disconnect switch on each module for ease of maintenance.

1A SIGN TYPE 1-DR.24B - WALL/SOFFIT DIRECTIONAL
3/8" = 1'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

SIGN TYPE DETAILS AND CONSTRUCTION INFORMATION

DRAWN BY: **TK**
CHECKED BY: **TK**

SHEET NUMBER
IG0.1.08

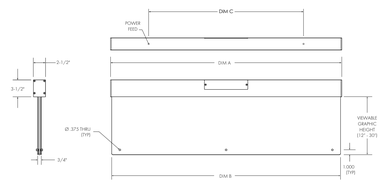
insight lighting | PARASIGN DEN
EDGE-LIT WAYFINDING SYSTEMS

PROJECT: TYPE: CATALOG #: D-PRS - 8 - 50K

DIMENSIONS

NOM LENGTH	DIM A	DIM B	DIM C
24"	24.37"	23.87"	14.00"
36"	36.12"	35.62"	20.31"
48"	47.87"	47.37"	32.00"
60"	59.62"	59.12"	43.81"
72"	71.37"	70.87"	55.56"
84"	83.12"	82.62"	67.312"
96"	94.87"	94.37"	79.00"

SURFACE/CEILING (SMS)



6D DETAIL A - SURFACE MOUNT
N.T.S.

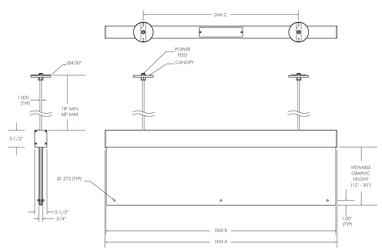
insight lighting | PARASIGN DEN
EDGE-LIT WAYFINDING SYSTEMS

PROJECT: TYPE: CATALOG #: D-PRS - 8 - 50K

DIMENSIONS

NOM LENGTH	DIM A	DIM B	DIM C
24"	24.37"	23.87"	14.00"
36"	36.12"	35.62"	20.31"
48"	47.87"	47.37"	32.00"
60"	59.62"	59.12"	43.81"
72"	71.37"	70.87"	55.56"
84"	83.12"	82.62"	67.312"
96"	94.87"	94.37"	79.00"

PENDANT (PNS)



4D DETAIL B - PENDANT MOUNT
N.T.S.

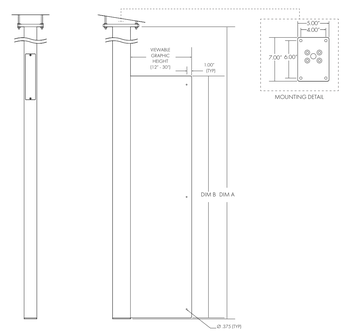
insight lighting | PARASIGN DEN
EDGE-LIT WAYFINDING SYSTEMS

PROJECT: TYPE: CATALOG #: D-PRS - 8 - 50K

DIMENSIONS

NOM LENGTH	DIM A	DIM B
24"	24.37"	23.87"
36"	36.12"	35.62"
48"	47.87"	47.37"
60"	59.62"	59.12"
72"	71.37"	70.87"
84"	83.12"	82.62"
96"	94.87"	94.37"

FLAG MOUNT CEILING (FLC)



3D DETAIL C - FLAG MOUNT (CEILING)
N.T.S.

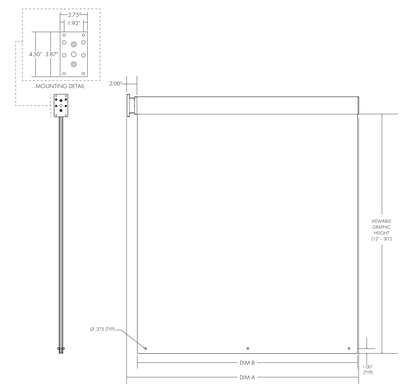
insight lighting | PARASIGN DEN
EDGE-LIT WAYFINDING SYSTEMS

PROJECT: TYPE: CATALOG #: D-PRS - 8 - 50K

DIMENSIONS

NOM LENGTH	DIM A	DIM B
24"	26.18"	23.87"
36"	37.93"	35.62"
48"	49.68"	47.37"
60"	61.43"	59.12"
72"	73.18"	70.87"

FLAG MOUNT WALL (FLW)



1D DETAIL D - FLAG MOUNT (WALL)
N.T.S.

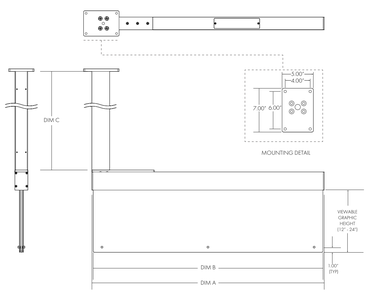
insight lighting | PARASIGN DEN
EDGE-LIT WAYFINDING SYSTEMS

PROJECT: TYPE: CATALOG #: D-PRS - 8 - 50K

DIMENSIONS

NOM LENGTH	DIM A	DIM B	DIM C
24"	24.37"	23.87"	24.00"
36"	36.12"	35.62"	35.75"
48"	47.87"	47.37"	47.50"
60"	59.62"	59.12"	59.25"
72"	71.37"	70.87"	71.00"
84"	N/A	N/A	82.75"
96"	N/A	N/A	94.50"

CANTILEVER L MOUNT (CA-L)



6B DETAIL E - CANTILEVER MOUNT
N.T.S.

insight lighting | PARASIGN DEN
EDGE-LIT WAYFINDING SYSTEMS

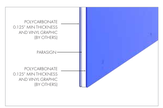
PROJECT: TYPE: CATALOG #: D-PRS - 8 - 50K

SPECIFICATION

LIGHT SOURCE	8 W/FT
CCT	5000K
CRI	80 (± 200)
VOLTAGE	UNIVERSAL 120-277 V
POWER	INTEGRATED POWER SUPPLY
CONTROL	DIMMING
DIMENSIONS	12" – 30" HEIGHT X 24" – 96" LENGTH
WEIGHT	4.375 LBS./FT.
HOUSING	UPPER ALUMINUM EXTRUSION
OPTICAL SYSTEMS	TRANSPARENT CAST ACRYLIC, 6MM THICKNESS, LASER ETCHED
FINISH	HIGH DURABILITY POWDER COATING
WARRANTY	5-YEAR LIMITED
OPERATING TEMP	-25° C TO 40° C
LUMEN MAINTENANCE	75,000 HOURS LTD
CERTIFICATION	ETL -cETL (TO UL 48 STANDARDS)
US PATENT	US9,709,227 B2



FIXTURE COMPONENTS



ACCESSORIES / OPTIONS



PERFORMANCE SUMMARY

BW/FT	UNIFORMITY
48.0"	1.6:1

BW/FT	LUMINANCE
48.0"	300 cd/m²

4B TYP 1 - PRODUCT CUT SHEET
N.T.S.

insight lighting | PARASIGN DEN
EDGE-LIT WAYFINDING SYSTEMS

PROJECT: TYPE: CATALOG #: D-PRS - 8 - 50K

ORDERING INFORMATION

D-PRS	8	50K						
■	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]

■ FIXTURE
PARASIGN DENVER D-PRS

[2] WATTAGE
8 WATTS/FT 8

[3] CCT
5000K 50K

[4] MOUNTING
SURFACE/CEILING SMS
PENDANT PNS
SUSPENDED ALL THREAD SAT
FLAG MOUNT WALL FLW

[5] NOMINAL FIXTURE LENGTH
48" X 12" 4812
48" X 24" 4824
48" X 36" 4836
96" X 12" 9612
96" X 24" 9624
96" X 30" 9630
Additional sizes are available. For custom sizes and mounting, please contact factory.
Acrylic sizes exceeding 24" require additional standoffs for support

[6] VOLTAGE
120V 120
277V 277

[7] CONTROL
NON-DIMMING NO
0-10V DIMMING DIM
Dimming control system to be supplied by others.

[8] FINISH:
SEMI-GLOSS WHITE W
SEMI-GLOSS BLACK BL
SEMI-GLOSS NATURAL N
SEMI-GLOSS BRONZE BR
SEMI-GLOSS SATIN S
CUSTOM COLOR CC
Contact factory for custom color. Additional charges will apply.

[9] OPTIONS
EDGE DIFFUSER ED
Edge diffuser reduces 80% of the brightness on the panel edge only. Does not reduce the brightness on the panel face. best for direct view applications.

FIXTURES PER CIRCUIT

LENGTH	8 WATTS/FT 120V	277V
48"	30	72
96"	15	34

3B TYP 2 - PRODUCT CUT SHEET
N.T.S.

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

SIGN CONSTRUCTION DETAILS

DRAWN BY: **TK** CHECKED BY: **TK**

SHEET NUMBER
IG0.1.09

All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

UL LANDSIDE - Overhead Directional Signs
UL-T3L8A01



Side A

Image Reference

Determinations:

Leave as is



Side A
Existing

Reface with Master Plan

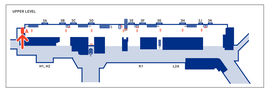


Side A
Reface Existing

Replace with Master Plan Ad. Alternate #5



Side A
Implement Master Plan - 1-UI.11



UL LANDSIDE - Overhead Directional Signs
UL-T3L8I01



Side A

Image Reference

Determinations:

Leave as is



Side A
Existing

Reface with Master Plan

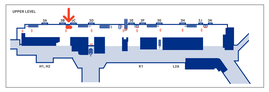


Side A
Reface Existing

Replace with Master Plan Ad. Alternate #5



Side A
Implement Master Plan - 1-DR.23c



UL LANDSIDE - Overhead Directional Signs
UL-T3L8R01



Side A

Image Reference

Determinations:

Leave as is



Side A
Existing

Reface with Master Plan

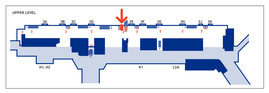


Side A
Reface Existing

Replace with Master Plan Ad. Alternate #5



Side A
Implement Master Plan - 1-DR.23c



UL LANDSIDE - Overhead Directional Signs
UL-T3L8S03



Side A

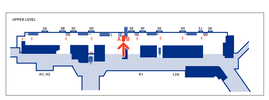


Side B

Image Reference







UL LANDSIDE - Overhead Directional Signs
UL-T3L8S01



Side A

Image Reference

Determinations:

Leave as is



Side A
Existing

Reface with Master Plan

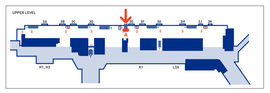


Side A
Reface Existing

Replace with Master Plan Ad. Alternate #5



Side A
Implement Master Plan - 1-DR.04c



UL LANDSIDE - Overhead Directional Signs
UL-T3L8U01



Side A

Image Reference

Determinations:

Leave as is



Side A
Existing

Reface with Master Plan

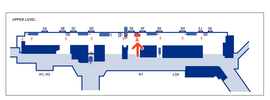


Side A
Reface Existing

Replace with Master Plan Ad. Alternate #5



Side A
Implement Master Plan - 1-DR.23c



UL LANDSIDE - Overhead Directional Signs
UL-T3L8L02



Side A



Side B

Image Reference



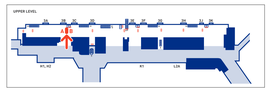
Determinations:

Reface with Master Plan



Replace with Master Plan Ad. Alternate #5











UL LANDSIDE - Overhead Directional Signs
UL-T3L8M01

Side A

Side B

Image Reference

Determinations:

Reface with Master Plan

Replace with Master Plan Ad. Alternate #5

UL LANDSIDE - Overhead Directional Signs
UL-T3L8M04

Side A

Image Reference

Determinations:

Leave as is

Reface with Master Plan

Replace with Master Plan Ad. Alternate #5

UL LANDSIDE - Overhead Directional Signs
UL-T3L8U02

Side A

Side B

Image Reference

Determinations:

Reface with Master Plan

Replace with Master Plan Ad. Alternate #5

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT

StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
50% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

SIGN TYPE / MESSAGING CONFIRMATION - UPPER LEVEL LANDSIDE

DRAWN BY: **TK** CHECKED BY: **TK**

SHEET NUMBER
IG0.1.10

All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

UL LANDSIDE - Overhead Directional Signs
UL-T3L8Y01



Side A



Side B

Image Reference

Side A
Existing



Side B



Determinations:

Reface with Master Plan ☐

Side A
Reface Existing



Reface with Master Plan ☐

Side B



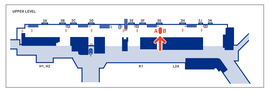
Replace with Master Plan Ad. Alternate #5 ☐

Side A
Implement Master Plan - 1-DR.04c



Side B





All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

UL AIRSIDE - Overhead Directional Signs
UL-T3A8A01



Image Reference — Side A



Side A
Existing

Determinations:

Reface with Master Plan

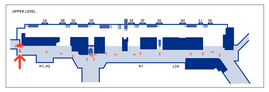


Side A
Reface Existing

Replace with Master Plan
Ad. Alternate #5



Side A
Implement Master Plan - 1-DR.04c


UPPER LEVEL
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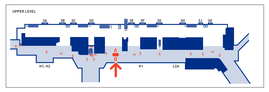
All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

UL AIRSIDE- Overhead Directional Signs
UL-T3A8Q01



Side A
Implement Master Plan - 1-DR.04c

Side B

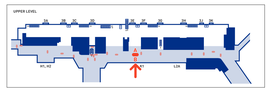


UL AIRSIDE- Overhead Directional Signs
UL-T3A8U01



Side A
Implement Master Plan - 1-DR.04c

Side B

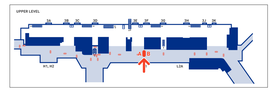


UL AIRSIDE- Overhead Directional Signs
UL-T3A8V01



Side A
Implement Master Plan - 1-DR.04c

Side B



UL AIRSIDE- Overhead Directional Signs
UL-T3A8Y01

Side A
Implement Master Plan - 1-DR.04c

Side B

UL AIRSIDE- Overhead Directional Signs
UL-T3A8DD02

Side A

Side B

Image Reference

Side A
Existing

Determinations:

Reface with Master Plan

Side A
Reface Existing

Replace with Master Plan
Ad. Alternate #5

Side A
Implement Master Plan - 1-DR.04c

Side B

Reface with Master Plan

Side B

Side B

UL AIRSIDE- Overhead Directional Signs
UL-T3A8HH02

Side A
Implement Master Plan - 1-DR.04c

Side B

UL AIRSIDE- Overhead Directional Signs
UL-T3A8JJ05

Side A
Implement Master Plan - 1-DR.04c

Side B

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
50% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

SIGN TYPE / MESSAGING CONFIRMATION - UPPER LEVEL AIRSIDE

DRAWN BY: **TK** CHECKED BY: **TK**

SHEET NUMBER
IG0.1.13

All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

LL LANDSIDE - Overhead Directional Signs
UL-T3L8F01


Side A


Side B

Image Reference





LL LANDSIDE - Overhead Directional Signs
UL-T3L8J01


Side A


Side B

Image Reference





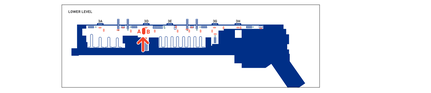
LL LANDSIDE - Overhead Directional Signs
UL-T3L8M01


Side A


Side B

Image Reference





LL LANDSIDE - Overhead Directional Signs
UL-T3L8M02


Side A


Side B

Image Reference





LL LANDSIDE - Overhead Directional Signs
UL-T3L8O02


Side A

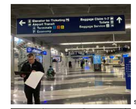

Side B

Image Reference





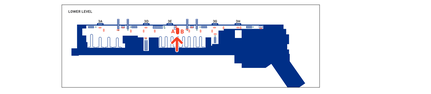
LL LANDSIDE - Overhead Directional Signs
UL-T3L8S02


Side A


Side B

Image Reference





LL LANDSIDE - Overhead Directional Signs
UL-T3L8U02


Side A

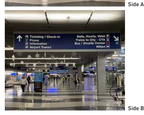
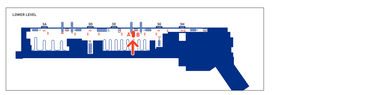

Side B

Image Reference





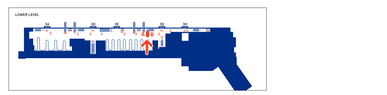
LL LANDSIDE - Overhead Directional Signs
UL-T3L8W01


Side A


Side B

Image Reference





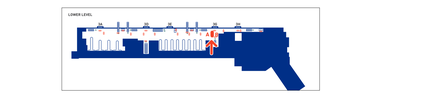
LL LANDSIDE - Overhead Directional Signs
UL-T3L8W02


Side A


Side B

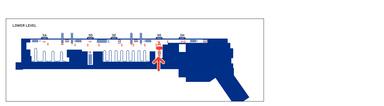
Image Reference



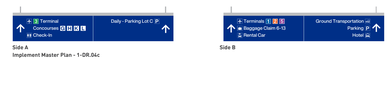


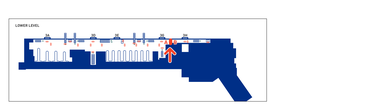
LL LANDSIDE - Overhead Directional Signs
UL-T3L8Y06





LL LANDSIDE - Overhead Directional Signs
UL-T3L8AA01





LL LANDSIDE - Overhead Directional Signs
UL-T3L8DD02

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
CHICAGO DEPARTMENT OF AVIATION

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
50% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

SIGN TYPE / MESSAGING CONFIRMATION - LOWER LEVEL LANDSIDE

DRAWN BY: **TK** CHECKED BY: **TK**

SHEET NUMBER
IG0.1.14

All references to Master Plan Signage are to the signage guidelines, layout and specifications outlined in the "ORD Wayfinding and Signage Standards and Guidelines FINAL DRAFT.pdf" dated 06.10.2022.

LL LANDSIDE - Overhead Directional Signs
UL-T3L8GG01



Side A

Image Reference



Side A
Existing

Determinations:

Reface with Master Plan ☐

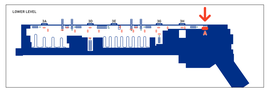


Side A
Reface Existing

Replace with Master Plan Ad. Alternate #5 ☐



Side A
Implement Master Plan - 1-DR.04c



NOT FOR CONSTRUCTION

SYMBOLS AND ABBREIVATIONS:

J	JUNCTION BOX
J	CEILING MOUNTED JUNCTION BOX
	PIN AND SLEEVE TYPE 3R CONNECTOR
	PUSH-BUTTON STATION
	DISCONNECT SWITCH - SIZE/POLES/FUSE/ENCLOSURE MOUNT 48" AFF
	EQUIPMENT CONTROLLER
	COMBINATION MOTOR CONTROLLER DISCONNECT SWITCH SIZE/POLES/FUSE/ENCLOSURE MOUNT 48" AFF
	FUSED DISCONNECT SWITCH
OR	FUSE
FW	FLEXIBLE RACEWAY (LIQUID-TIGHT AS NECESSARY)
Ø	PHASE
	RACEWAY CONCEALED IN FLOOR OR UNDERGROUND
	EXPOSED RACEWAY
	LIQUID TIGHT CABLE GRIP
WM	LIQUID TIGHT WIRE MESH STRAIN RELIEF
	CIRCUIT BREAKER W/ FRAME & TRIP RATINGS INDICATED
T	DRY TYPE TRANSFORMER (UNLESS OTHERWISE NOTED)
	GROUND CONNECTION
	GROUNDING ELECTRODE
#	MOTOR, WITH HP INDICATED
E	ELECTRIC UTILITY METER AS NOTED
	POTABLE WATER CABINET

A	AMP OR AMPERE
AHU	AIR HANDLER UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL	ALUMINUM
ALRC	ALUMINUM RIGID CONDUIT
ASE	AERO SYSTEMS ENGINEERING, INC.
ASY	ASYMMETRICAL
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
BV	BAGGAGE VALET C CONDUIT
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
Cu	COPPER
CW	CLOCKWISE
CCW	COUNTER CLOCKWISE
CRS	COLD ROLLED STEEL
DISC	DISCONNECT
DIA	DIAMETER
DX	DIRECT EXPANSION
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING F FUSE
FIDS	FLIGHT INFORMATION DISPLAY SYSTEM
FP	FIRE ALARM PULL STATION
FLA	FULL LOAD AMPS
FUS	FUSIBLE
G OR GND	GROUND
GPU	GROUND POWER UNIT (400HZ OR 28VDC AS INDICATED)
GS	GROUND SERVICES (AIRCRAFT)
GSE	GROUND SERVICES EQUIPMENT (AIRCRAFT)
H	HEIGHT
HP	HORSEPOWER
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
J	JUNCTION BOX
KVA	KILOVOLT AMPERE KW KILOWATT
MLO	MAIN LUG ONLY
MNPT	MALE NATIONAL PIPE THREAD
(N)	NEW
N/A	NOT APPLICABLE
N1	NEMA 1 OR INDOOR ENCLOSURE
N3R	NEMA 3R OR OUTDOOR ENCLOSURE
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSIBLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OCP	OVER CURRENT PROTECTION P POLE
PBB	PASSENGER BOARDING BRIDGE, PASSENGER LOADING BRIDGE, OR LOADING BRIDGE
PCA	PRECONDITIONED AIR
POU	POINT OF USE
PVC	POLYVINYL CHLORIDE CONDUIT
PWC	POTABLE WATER CABINET
R	RADIUS
(R)	RELOCATED
RIDS	RAMP INFORMATION DISPLAY SYSTEM
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE SC SCREW COVER
SD	SMOKE DETECTOR
SOW	SUNLIGHT, OIL AND WATER RESISTANT, SIZE AS INDICATED
SS	STAINLESS STEEL
SSFC	SOLID STATE FREQUENCY CONVERTER
SWBD	SWITCHBOARD TSP TWISTED SHIELDED PAIR
TYP	TYPICAL
UG	UNDERGROUND OR SUB-SURFACE
UL	UNDERWRITERS LABORATORIES
UPS	UN-INTERRUPTABLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VDGS	VISUAL DOCKING GUIDANCE SYSTEM
W	WIDTH
WW	WALKWAY
XFMR	TRANSFORMER
(Y)	YES
400HZ	400 HERTZ AIRCRAFT GROUND POWER

GENERAL NOTES:

1. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED IN THIS DRAWING PACKAGE.
2. EQUIPMENT, TERMINATIONS. INSTALLATION DETAILS WITHIN THIS PACKAGE ARE PROVIDED AS A DESIGN INTENT ONLY. PBB PACKAGE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING ALL INSTALLATION SERVICES, MATERIALS, ETC. AS NECESSARY TO INSTALL ACTUAL EQUIPMENT FURNISHED BY HIM OR PROVIDED TO HIM. ALL COSTS TO BE COVERED UNDER BASE BID.
3. ALL COMMISSIONING AND TESTING FOR INDICATED EQUIPMENT SHALL BE INCLUDED AS PART OF THIS CONTRACT.
4. THE ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE BID DOCUMENTS THE COMPLETE SCOPE OF WORK FOR THE PROJECT. PROPOSERS ARE CAUTIONED THAT MINOR OMISSIONS AND DISCREPANCIES IN THE DOCUMENTS DO NOT EXCUSE OR EXCLUDE PROPOSERS FROM PROVIDING PROPOSAL PRICES TO COMPLETE THEIR RESPECTIVE PORTIONS OF THE PROJECT TO THE INTENT OF THESE DESIGN DOCUMENTS. IT IS THE RESPONSIBILITY OF THE PROPOSERS TO BRING ANY CONFLICTS, OMISSIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER AND THE ENGINEER PRIOR TO THE SUBMITTAL OF THE PROPOSER'S BID. SUBMISSION OF BIDS OR OFFERS SHALL BE CONSIDERED AS PROPOSER'S EVIDENCE OF HAVING PERFORMED PROJECTS OF SIMILAR SIZE AND SCOPE AND AS PROPOSER'S ACCEPTANCE OF THESE TERMS AND CONDITIONS. AFTER EXECUTION OF THE CONTRACT, NO EXTRA CHARGE WILL BE ALLOWED FOR ITEMS OF WORK, WHERE SUCH ITEMS ARE CONCLUDED TO CONFORM WITH NORMAL CONSTRUCTION PRACTICES AND METHODS OF PROJECTS WITH SIMILAR SCOPES.
5. THE TERM LOADING BRIDGE MAY ALSO BE REFERRED TO AS PASSENGER BOARDING BRIDGE (PBB) THROUGHOUT THE PROJECT. EITHER TERM IS USED TO IDENTIFY THE EQUIPMENT USED AS THE WALKWAY, FIXED AT THE TERMINAL OR BUILDING FACE, USED TO LOAD AND/OR OFFLOAD PASSENGERS TO/FROM AIRCRAFT PARKED AT THE GATE.
6. PBB PACKAGE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH THE TERMINAL BUILDING CONTRACTOR THROUGH THE OWNER AND ENGINEER AS INDICATED, BUT NOT LIMITED TO, DETAILS WITHIN THE TERMINAL BUILDING PACKAGE.
7. PROVIDE APPROVED BARRICADES AROUND GATE AREAS DURING BRIDGE ERECTION AND CRANE OPERATIONS. COORDINATE WITH TERMINAL BUILDING CONTRACTOR.
8. SEE SEPARATE PACKAGES AND/OR SPECIFICATIONS FOR ANY ADDITIONAL COORDINATION INFORMATION OR DETAILS.
9. DRAWING TITLES USED THROUGHOUT THIS PACKAGE ARE FOR CONVENIENCE ONLY AND SHOULD NOT BE CONSTRUED TO LIMIT WORK SHOWN THEREON. A GENERAL SUMMARY OF THE SCOPE OF WORK CAN BE SEEN ON DRAWING CA2.0.05 PROVIDE AND INSTALL EQUIPMENT AS NECESSARY TO MEET THE DESIGN INTENT OF THIS PACKAGE AND TO PROVIDE AND INSTALL COMPLETE AND OPERABLE FINAL SYSTEMS.

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

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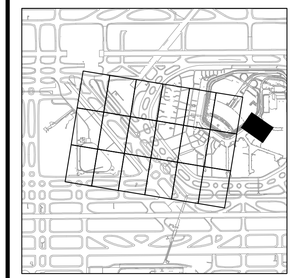
STAMPING CONSULTANT
AERO SYSTEMS ENGINEERING

KEY PLAN



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PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

DESIGNED: **DWR** DRAWN: **RLA** CHECKED: **DWR**
SHEET NUMBER
QA0.1.01
VOLUME:

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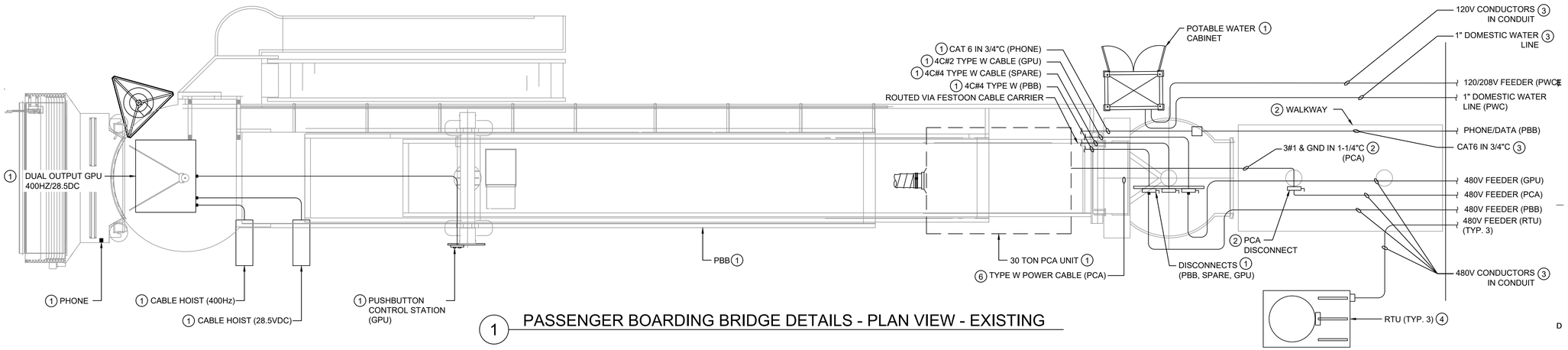
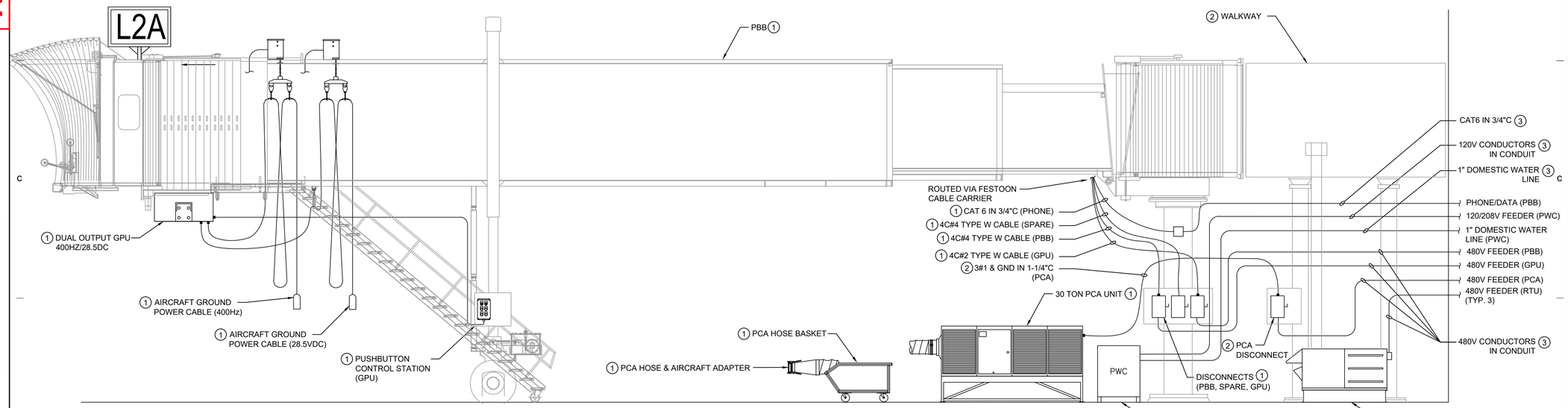


1 PASSENGER BOARDING BRIDGE DETAILS - PLAN VIEW - EXISTING



2 PASSENGER BOARDING BRIDGE DETAILS - ELEVATION VIEW - EXISTING

LEGEND NOTES

1. EXISTING TO REMAIN.
2. REMOVE AND DISCARD, OR TURN OVER TO OWNER AT THE OWNER'S DISCRETION.
3. DEMO EXISTING SERVICE BACK TO THE BUILDING FACE.
4. REMOVE AND REINSTALL TWO (2) OF THE THREE (3) EXISTING RTUs ON THE ROOF OF THE (N) WALKWAY. PROVIDE DUCTING MODIFICATIONS AS REQUIRED TO CONVERT FROM APRON-MOUNTED TO ROOF-MOUNTED CONFIGURATION.
5. REMOVE AND REINSTALL ON (E) PBB COLUMN.
6. REMOVE AND REINSTALL WITH (N) WALKWAY CONFIGURATION, OR PROVIDE & INSTALL (N) AS NECESSARY.

GENERAL NOTES

1. PATCH, PRIME, PAINT SURFACES AT ALL DEMOLITION POINTS TO MATCH EXISTING SURROUNDING SUBSTRATES. FIRE SEAL PENETRATIONS.
2. GRIND, PRIME AND PAINT SURFACE AT ALL WELDS. PAINT SHALL MATCH BRIDGE COLOR.
3. VERIFY EXACT LOCATION OF ALL EQUIPMENT/CONDUIT/CABLES, ETC. PRIOR TO INSTALLATION.
4. COORDINATE THE INSTALLATION OF ALL EQUIPMENT SUCH THAT BRIDGE MAINTAINS CAPACITY OF FULL DESIGN MOVEMENT. THE BRIDGE ROTATIONAL LIMITS ARE DEFINED AS THE EXTREME C.W. TO THE EXTREME C.C.W. POSITIONS. THESE LIMITS SHALL BE THE MECHANICAL LIMITS OF THE BRIDGE AND CAB AS INSTALLED IRRESPECTIVE OF ELECTRICAL LIMIT SET POINTS.
5. ALL UNDER BRIDGE CONDUITS AND CABLES SHALL BE INSTALLED SO AS TO MAINTAIN A CLOSE PROXIMITY TO THE BOTTOM OF THE BRIDGE. CABLES SHALL NOT HANG LOOSELY FROM BRIDGE.
6. WHEN WELDING ON THE BRIDGE, MAINTAIN A MAXIMUM OF 18" BETWEEN THE ARCING ELECTRODE AND THE GROUNDING CONNECTION, SO AS TO ENSURE THAT WELDING CURRENT FLOWS IN THE ACTUAL MATERIAL BEING WELDED. HOT WORK PERMIT REQUIRED DAILY FOR ANY AND ALL WELDING ACTIVITIES.
7. ALL CONTRACTOR FURNISHED EQUIPMENT INSTALLED ON BRIDGE SHALL BE PAINTED TO MATCH EXISTING BRIDGE COLOR BY INSTALLING CONTRACTOR.
8. DRAWING BASED ON RECORD DRAWINGS AND CURSORY FIELD INSPECTIONS BY THE ENGINEER. CONTRACTOR SHALL FIELD VERIFY ALL NECESSARY DETAILS. EXPECT SOME DEVIATIONS. CONTACT ENGINEER IF DEVIATIONS EXIST.
9. ANY ITEMS NOTED AS BEING DISCARDED, SHALL ALTERNATIVELY BE REMOVED AND TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION. OWNER SHALL ALSO BE AFFORDED THE OPPORTUNITY TO REMOVE AND RETAIN ANY COMPONENT'S HE DESIRES TO MAINTAIN FOR SPARE PARTS. PROVIDE 72 HOURS NOTICE TO OWNER PRIOR TO DEMOLITION.
10. CONTRACTOR SHALL PROVIDE COMPLETE AND OPERATIONAL INSTALLATION.
11. SCHEDULE PRE-MOVE AND POST MOVE INSPECTIONS WITH THE OWNER. CORRECT ANY DAMAGE CAUSED BY CONTRACTOR.
12. NOT ALL EQUIPMENT, DEVICES, ETCETERA, SHOWN IN ALL VIEWS FOR CLARITY.
13. COORDINATE FLASHING INSTALLATION WITH SECURITY DEVICES INSTALLED. REMOVE AND REINSTALL AS NECESSARY.

CDA Chicago Department of Aviation

CITY OF CHICAGO
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MAYOR

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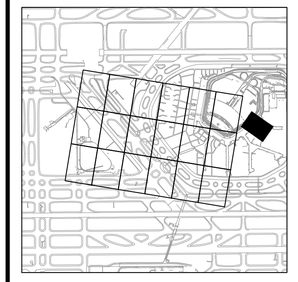

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EXISTING PBB LAYOUT - GATE L2A

DESIGNED: **DWR** DRAWN: **RLA** CHECKED: **DWR**
SHEET NUMBER: **QA1.1.01**
VOLUME:

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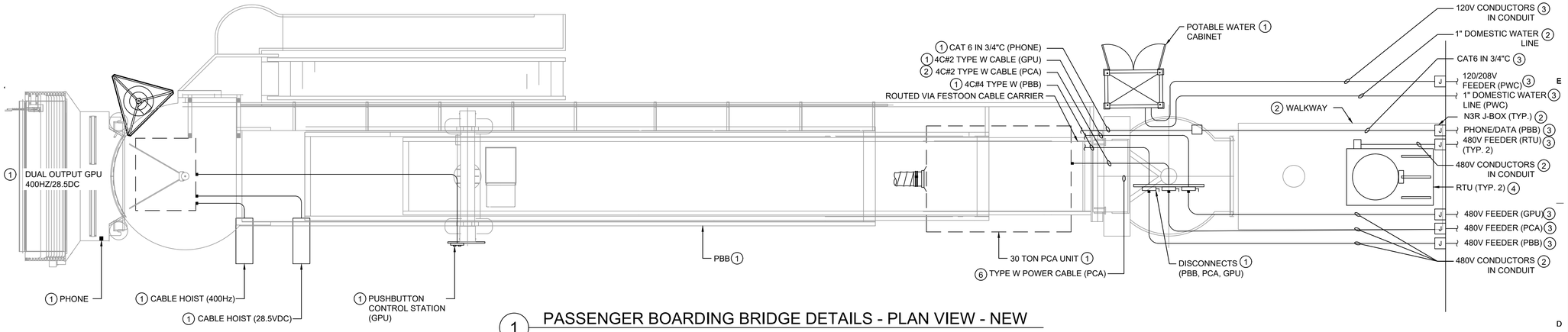
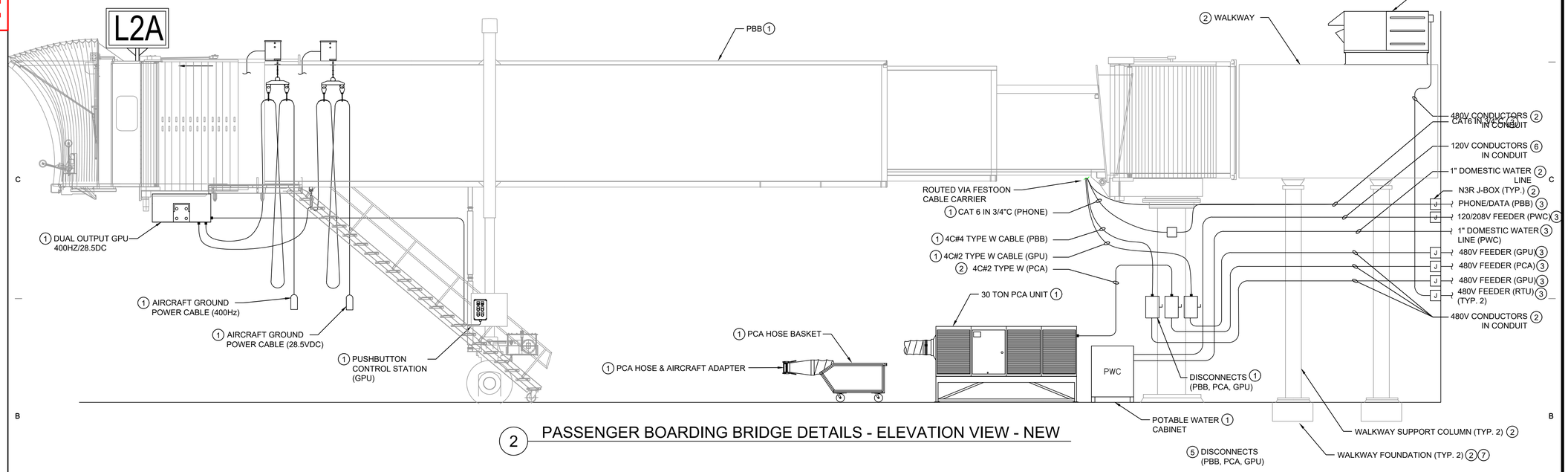


1 PASSENGER BOARDING BRIDGE DETAILS - PLAN VIEW - NEW



2 PASSENGER BOARDING BRIDGE DETAILS - ELEVATION VIEW - NEW

LEGEND NOTES

1. EXISTING TO REMAIN.
2. NEW.
3. SEE MEP & TECHNOLOGY DRAWINGS.
4. REINSTALL TWO (2) OF THE THREE (3) EXISTING RTUs ON THE ROOF OF THE (N) WALKWAY. PROVIDE DUCTING MODIFICATIONS AS REQUIRED TO CONVERT FROM APRON-MOUNTED TO ROOF-MOUNTED CONFIGURATION.
5. RELOCATED ON (N) UNISTRUT RACK ADJACENT TO (E) PBB ROTUNDA COLUMN.
6. REMOVE AND REINSTALL WITH (N) WALKWAY CONFIGURATION, OR PROVIDE & INSTALL (N) AS NECESSARY.
7. SEE CIVIL & STRUCTURAL DRAWINGS.

GENERAL NOTES

1. PATCH, PRIME, PAINT SURFACES AT ALL DEMOLITION POINTS TO MATCH EXISTING SURROUNDING SUBSTRATES. FIRE SEAL PENETRATIONS.
2. GRIND, PRIME AND PAINT SURFACE AT ALL WELDS. PAINT SHALL MATCH BRIDGE COLOR.
3. VERIFY EXACT LOCATION OF ALL EQUIPMENT/CONDUIT/CABLES, ETC. PRIOR TO INSTALLATION.
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5. ALL UNDER BRIDGE CONDUITS AND CABLES SHALL BE INSTALLED SO AS TO MAINTAIN A CLOSE PROXIMITY TO THE BOTTOM OF THE BRIDGE. CABLES SHALL NOT HANG LOOSELY FROM BRIDGE.
6. WHEN WELDING ON THE BRIDGE, MAINTAIN A MAXIMUM OF 18" BETWEEN THE ARCING ELECTRODE AND THE GROUNDING CONNECTION, SO AS TO ENSURE THAT WELDING CURRENT FLOWS IN THE ACTUAL MATERIAL BEING WELDED. HOT WORK PERMIT REQUIRED DAILY FOR ANY AND ALL WELDING ACTIVITIES.
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12. NOT ALL EQUIPMENT, DEVICES, ETCETERA, SHOWN IN ALL VIEWS FOR CLARITY.
13. COORDINATE FLASHING INSTALLATION WITH SECURITY DEVICES INSTALLED. REMOVE AND REINSTALL AS NECESSARY.

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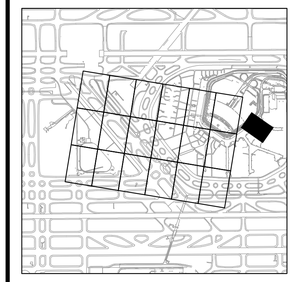

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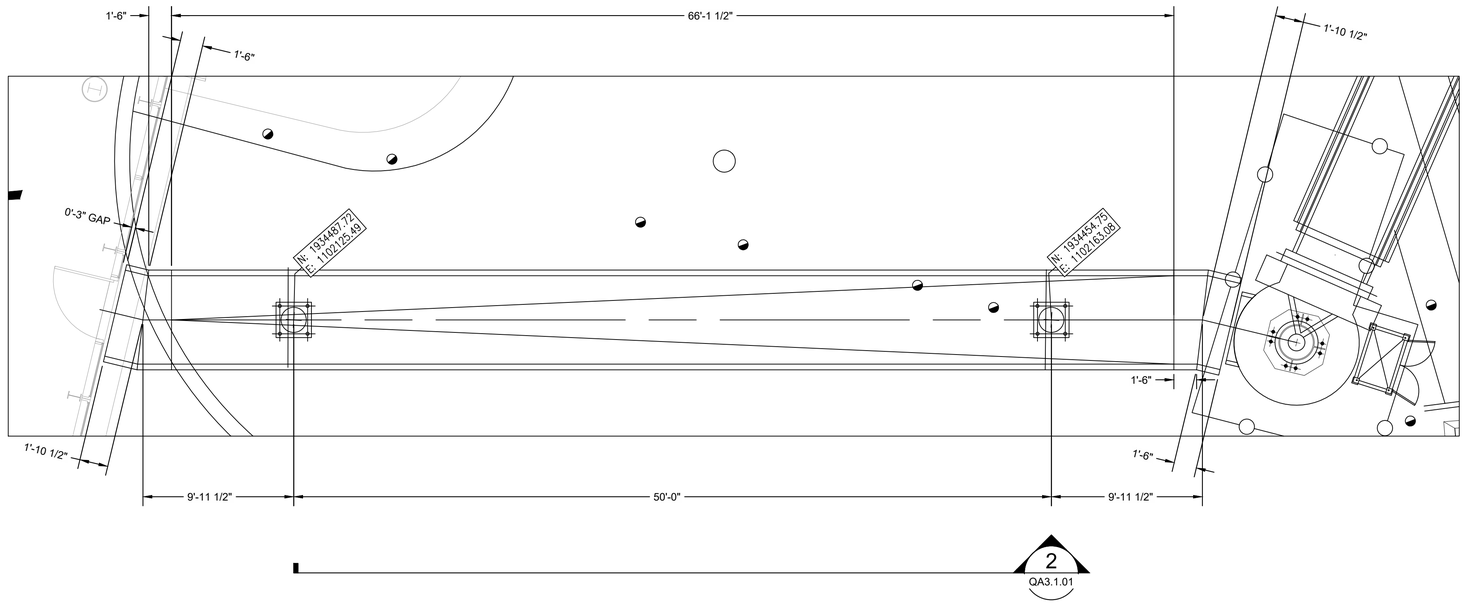
NEW PBB LAYOUT - GATE L2A

DESIGNED: **DWR** DRAWN: **RLA** CHECKED: **DWR**

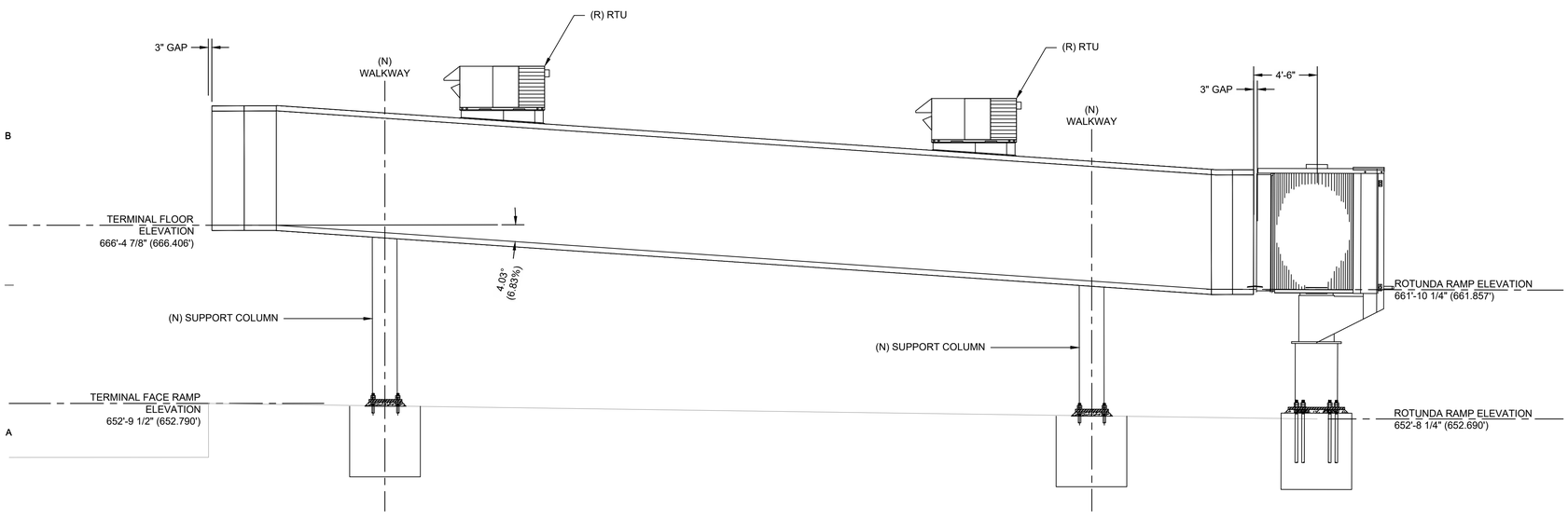
SHEET NUMBER
QA2.1.01

VOLUME:

NOT FOR CONSTRUCTION



1 FIXED LOADING BRIDGE LAYOUT - GATE L2A - PLAN VIEW



2 FIXED LOADING BRIDGE LAYOUT - GATE L2A - ELEVATION VIEW

GENERAL NOTES:

1. LAYOUT AND DIMENSIONS SHOWN ARE A DESIGN INTENT ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DATA BEFORE PROCEEDING WITH THE WORK INDICATED OR ORDERING EQUIPMENT.
2. COORDINATES PROVIDED ARE CENTER-POINT AND OFFSET COORDINATES FOR USE IN ALIGNMENT OF BASE PLATE.
3. MEASURE AND CONFIRM DIMENSIONS FROM BUILDING FACE AND DOORWAY TO COLUMN CENTERLINES BEFORE PROCEEDING WITH THE WORK INDICATED OR ORDERING EQUIPMENT. CONTACT ENGINEER IF DISCREPANCIES ARISE.
4. RELOCATE (2) EXISTING APRON-MOUNTED RTUS FROM THE EXISTING WALKWAY TO THE ROOF OF THE NEW WALKWAY.

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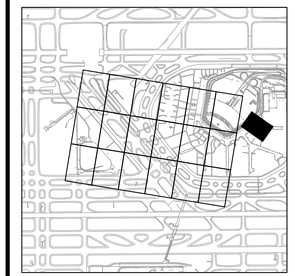

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PBB DETAILS - PART ONE

DESIGNED: **DWR** DRAWN: **RLA** CHECKED: **DWR**

SHEET NUMBER
QA3.1.01

VOLUME:

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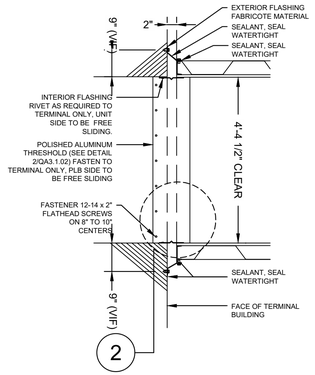
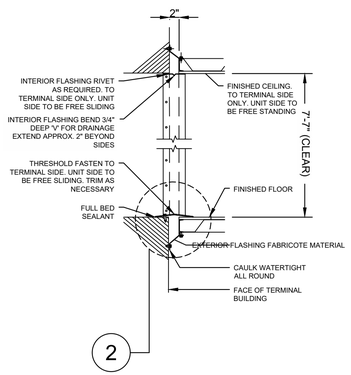
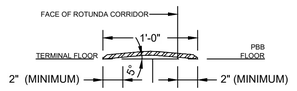




1 BUILDING/WALKWAY INTERIOR AND EXTERIOR FLASHING DETAILS

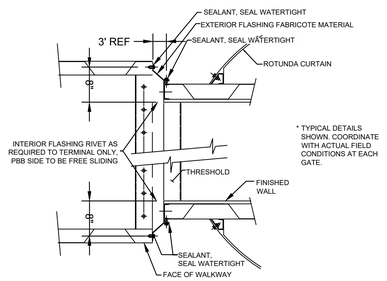


NOTE:
INSTALL THRESHOLD PLATE PER DETAILS IN MANUFACTURER'S PUBLISHED DATA.

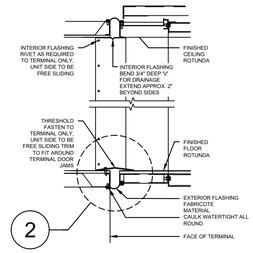
2 THRESHOLD PLATE DETAILS

GENERAL NOTES:

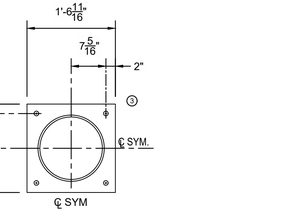
1. GRIND, PRIME AND PAINT SURFACE AT ALL WELDS. PAINT SHALL MATCH EXISTING BRIDGE COLOR.
2. VERIFY EXACT LOCATION OF ALL EQUIPMENT/CONDUIT/CABLES, ETC. PRIOR TO INSTALLATION.
3. COORDINATE THE INSTALLATION OF ALL EQUIPMENT SUCH THAT BRIDGE MAINTAINS CAPACITY OF FULL DESIGN MOVEMENT. THE BRIDGE ROTATIONAL LIMITS ARE DEFINED AS THE EXTREME C.W. TO THE EXTREME C.C.W. POSITIONS, AS WELL AS THE EXTREME HIGH AND LOW AND EXTREME RETRACTABLE AND EXTENSION POSITIONS. THESE LIMITS SHALL BE THE MECHANICAL LIMITS OF THE BRIDGE AND CAB AS INSTALLED IRRESPECTIVE OF ELECTRICAL LIMIT SET POINTS.
4. ALL UNDER BRIDGE CONDUITS AND CABLES SHALL BE INSTALLED SO AS TO MAINTAIN A CLOSE PROXIMITY TO THE BOTTOM OF THE BRIDGE. CABLES SHALL NOT HANG LOOSELY FROM BRIDGE.
5. WHEN WELDING ON THE BRIDGE, MAINTAIN A MAXIMUM OF 18" BETWEEN THE ARCING ELECTRODE AND THE GROUNDING CONNECTION, SO AS TO ENSURE THAT WELDING CURRENT FLOWS IN THE ACTUAL MATERIAL BEING WELDED.
6. ALL EQUIPMENT INSTALLED ON BRIDGE SHALL BE PAINTED TO MATCH INSTALLED BRIDGE COLOR.
7. ALL STRUCTURE WIELDING SHALL BE PAINTED TO MATCH INSTALLED BRIDGE COLOR.
8. COORDINATE FLASHING INSTALLATION WITH SECURITY DEVICES INSTALLED. REMOVE AND REINSTALL AS NECESSARY
9. DRILL 3/16" THROUGH HOLE & UTILIZE 3/16" X 5/8" RIVETS. SPACE EQUALLY 6-8" TO MATCH OVERALL DIMENSION.
10. EQUIPMENT AND DETAILS SHOWN ARE A DESIGN INTENT ONLY. PROVIDE AND INSTALL ALL EQUIPMENT NECESSARY TO MEET THE DESIGN INTENT AND SPECIFICATIONS. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DETAILS. SUBMIT ALL DETAILS FOR APPROVAL.
11. DETAIL SHOWN IS GENERIC IN NATURE. CONFIRM AND COORDINATE WITH ALL FIELD DETAILS.
12. ALL INTERIOR FLASHING TO BE FIELD FURNISHED, 24 GAUGE SHEET METAL, ELECTROLYTIC ZINC PLATED. FIELD MEASURE, BEND AND TRIM TO FIT EACH INSTALLATION. ATTACH TO TERMINAL AS SHOWN. FINISH PAINT TO MATCH UNIT.



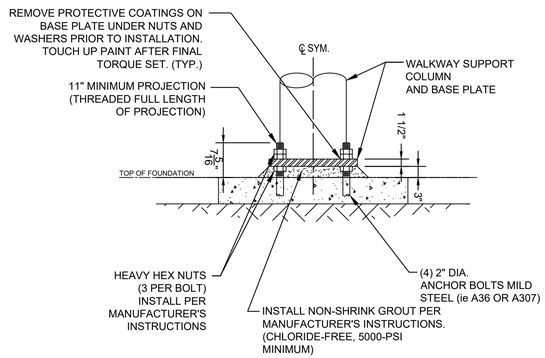
* TYPICAL DETAILS SHOWN. COORDINATE WITH ACTUAL FIELD CONDITIONS AT EACH GATE.



3 WALKWAY/PBB INTERIOR AND EXTERIOR FLASHING DETAILS

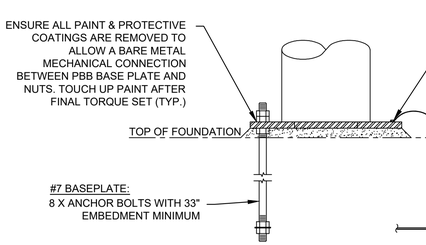


PLAN



ELEVATION

4 WALKWAY ANCHOR BOLT PATTERN



CONCRETE-ENCASED ELECTRODE (REBAR) NOTES:

1. TOTAL LENGTH OF ELECTRODE (REBAR) SHALL BE A MINIMUM OF 6m [20'].
2. ELECTRODE SHALL CONSIST OF ELECTRICALLY CONDUCTIVE COATED STEEL REBAR NOT LESS THAN 13mm [1/2"] DIAM. MULTIPLE PIECES SHALL BE CONNECTED TOGETHER BY STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MEANS TO CREATE THE MINIMUM REQUIRED LENGTH OR GREATER.
3. REBAR SHALL BE ENCASED BY AT LEAST 50mm [2"] OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN A PORTION OF THE CONCRETE FOUNDATION THAT IS IN DIRECT CONTACT WITH THE EARTH, OR WITHIN VERTICAL FOUNDATIONS THAT ARE IN DIRECT CONTACT WITH THE EARTH.
4. SEE STRUCTURAL DRAWINGS FOR REBAR DETAILS.

5 WALKWAY SUPPORT COLUMN GROUNDING DETAIL

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
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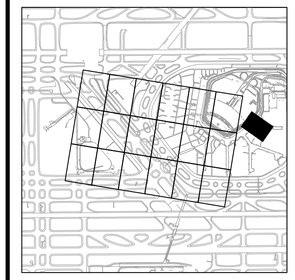

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C.O.C.A.002.01

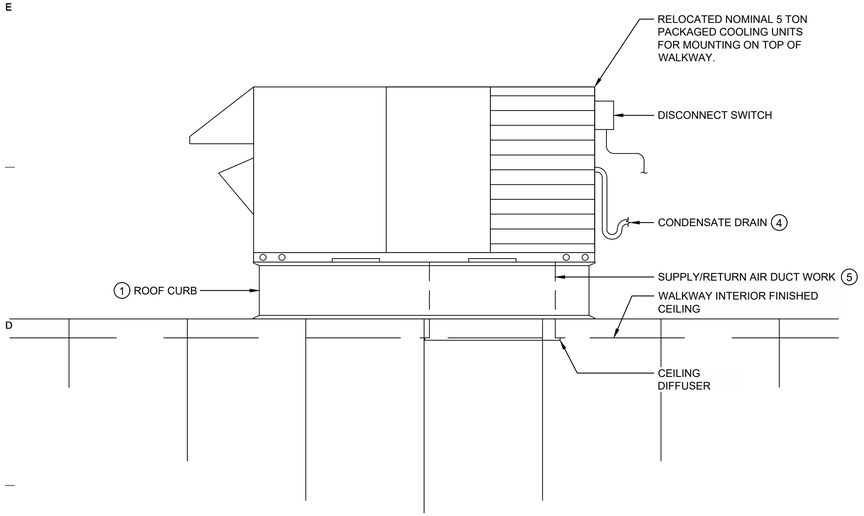
PBB DETAILS - PART TWO

DESIGNED: **DWR** DRAWN: **RLA** CHECKED: **DWR**

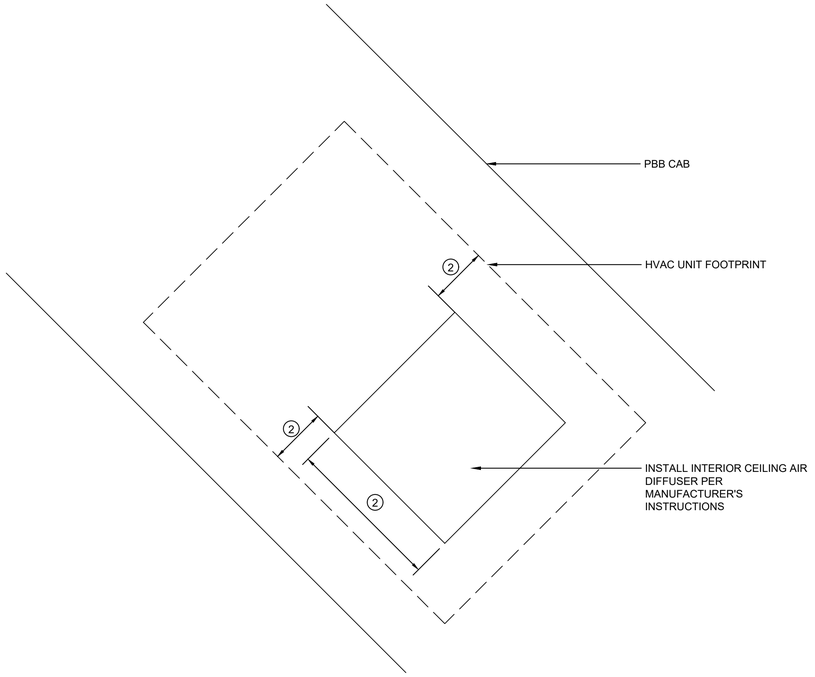
SHEET NUMBER
QA3.1.02

VOLUME:

NOT FOR CONSTRUCTION



1 ROOFTOP HVAC UNIT - ELEVATION VIEW 3



2 TYPICAL CAB OPENING - TOP VIEW 3

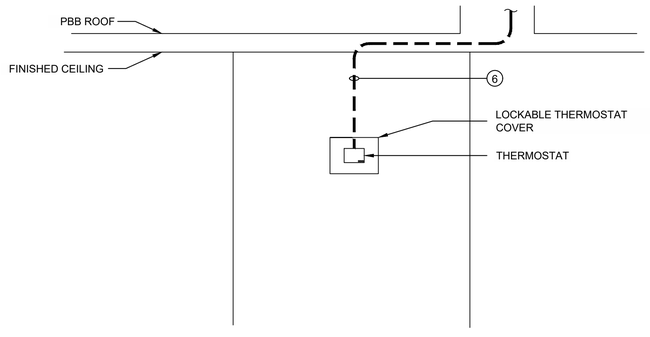
GENERAL NOTES:

1. PROVIDE & INSTALL WALL MOUNTED THERMOSTAT WITH LOCKABLE COVER FOR ROOFTOP UNIT CONTROL.
2. THERMOSTAT WIRING SHALL BE #22AWG UNLESS SPECIFIED OTHERWISE BY MANUFACTURER. MOUNT THERMOSTAT 60" AFF. DO NOT LOCATE THERMOSTAT CLOSE TO OR IN DIRECT AIRFLOW FROM SUPPLY OR RETURN AIR GRILLE.
3. RELOCATE EXISTING TRANE RTUS FROM APRON-MOUNTED LOCATIONS TO ROOFTOP MOUNTED LOCATIONS ON (N) WALKWAY. RECONFIGURE SUPPLY/RETURN DUCTING AS NEEDED.

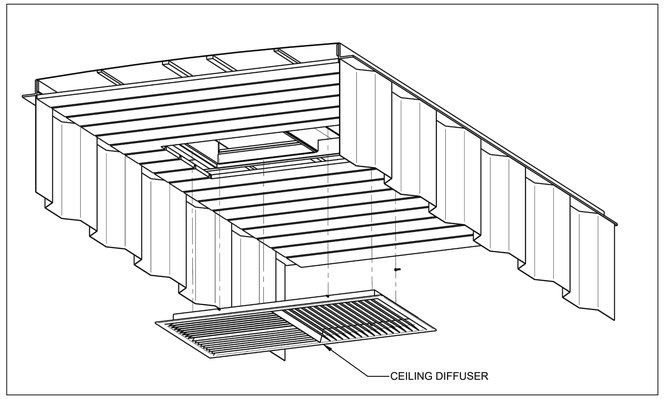
LEGEND NOTES:

1. CONNECT HVAC TO CURB & CURB TO CAB ROOF PER MANUFACTURER'S INSTRUCTIONS. UNIT AND CURB TO BE SECURELY FASTENED IN PLACE AND SEALED TO BE WATERTIGHT.
2. COORDINATE WALKWAY ROOF OPENING DIMENSIONS WITH MANUFACTURER'S REQUIREMENTS. CUT ONLY THE HOLES IN ROOF FOR DUCTWORK PENETRATIONS. DO NOT CUT OUT ENTIRE ROOF DECK WITHIN THE CURB PERIMETER
3. LOCATE ROOF OPENING SUCH THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MAINTAINED.
4. PROVIDE ALL MATERIALS AND FITTINGS TO ROUTE WALKWAY HVAC CONDENSATE LINES TO DRAIN TO RAMP.
5. CURB DUCTWORK MUST BE FABRICATED AND INSTALLED BEFORE THE UNIT IS SET IN PLACE.
6. ROUTE THERMOSTAT CONTROL FROM WALL MOUNTED UNIT TO ROOFTOP UNIT THROUGH ROOF OPENING. THERMOSTAT CONTROL CABLE SHALL BE PLENUM RATED.

TYPICAL RTU SPECIFICATIONS												
SERVICE	BASIS OF DESIGN MANUFACTURED	MODEL	COOLING CAPACITY (TONS)	CFM	(HEAT) (KW)	HEAT STAGES	MCA (A)	MOCP (A)	COMPRESSOR HP	VOLTAGE/PHASE	WEIGHT	NOTES
PBB	TRANE	TBD	5	2,000	12	2	33	3H	4.70	460	800	LEVEL ROOF CURB



3 INTERIOR THERMOSTAT DETAIL



* ORIENTATION OF DIFFUSER IS FIELD CONFIGURED.

4 TYPICAL CEILING DIFFUSER DETAIL

RELOCATED EQUIPMENT			
GATE #	QTY.	RTU	NOTES
L2A	2	5 TON - SEE GENERAL NOTES #3	MOUNTED ON WALKWAY

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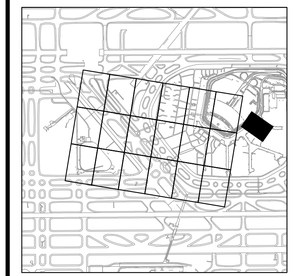
KEY PLAN



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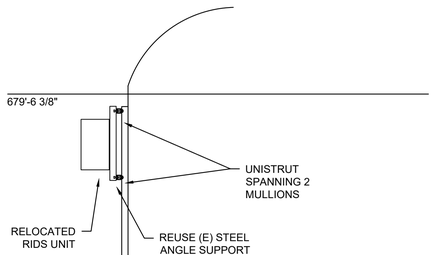
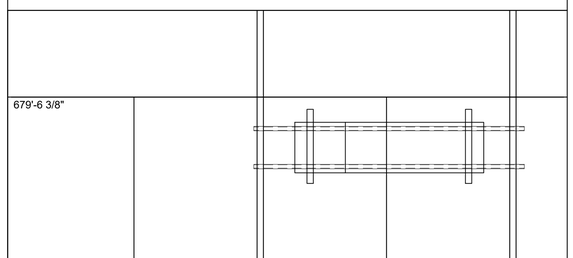
PBB DETAILS - PART THREE

DESIGNED: **DWR** DRAWN: **RLA** CHECKED: **DWR**
SHEET NUMBER
QA3.1.03
VOLUME:

NOT FOR CONSTRUCTION



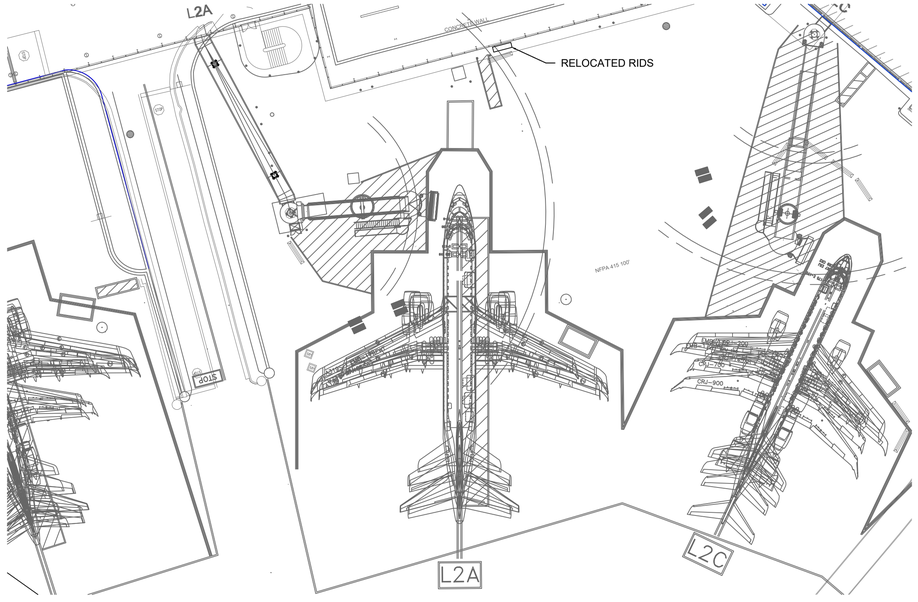
1 RIDS RELOCATION SECTION AND ELEVATION VIEWS



RELOCATE EXISTING RIDS FROM FIXED WALKWAY TO CURTAIN WALL OF NEW EXPANSION



2 EXISTING RIDS INSTALLATION



3 RIDS RELOCATION PLAN

GENERAL NOTES:

1. VERIFY EXACT LOCATION OF ALL EQUIPMENT/CONDUIT/CABLES, ETC. PRIOR TO INSTALLATION.
2. EQUIPMENT AND DETAILS SHOWN ARE A DESIGN INTENT ONLY. PROVIDE AND INSTALL ALL EQUIPMENT NECESSARY TO MEET THE DESIGN INTENT AND SPECIFICATIONS. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DETAILS. SUBMIT ALL DETAILS FOR APPROVAL.
3. DETAIL SHOWN IS GENERIC IN NATURE. CONFIRM AND COORDINATE WITH ALL FIELD DETAILS.

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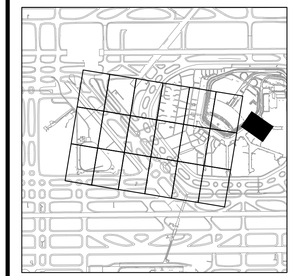

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REVISION: **--**

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C.O.C.A.002.01

RIDS RELOCATION PLAN

DESIGNED: **DWR** DRAWN: **RLA** CHECKED: **DWR**

SHEET NUMBER
QA4.1.01

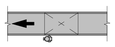
VOLUME:

CONVEYOR LEGEND FOR PLANS


INCLINE CONVEYOR


DECLINE CONVEYOR


HEAD DRIVEN CONVEYOR
W/ RIGHT SIDE MOTOR LOCATION

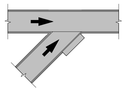

CENTER DRIVEN CONVEYOR
W/ LEFT SIDE MOTOR LOCATION


CENTER DRIVEN CONVEYOR
W/ UNDERHUNG MOTOR LOCATION)

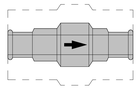

24" CENTER DRIVEN
TAKE-UP DRIVE

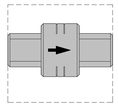

24" HEAD DRIVEN
TAKE-UP DRIVE


42" / 60" QUEUE CONVEYOR

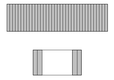

45° MERGE CONVEYOR


REVEAL DETECTION DEVICE
(CT80)


REVEAL DETECTION DEVICE
(CT80-DR)

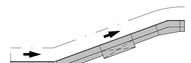

CTX DETECTION DEVICE
(CTX-9800)


POWER DIVERTER (SD)

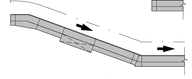

GRAVITY ROLLER CONVEYOR

CROSS OVER (CONVEYOR
W/ HAND RAILS

CONVEYOR LEGEND FOR ELEVATIONS


INCLINE CONVEYOR


END BRACKET


DECLINE CONVEYOR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24" CENTER DRIVEN
TAKE-UP DRIVE


24" HEAD DRIVEN
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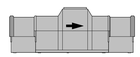
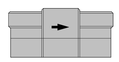
42" / 60" QUEUE CONVEYOR


45° MERGE CONVEYOR


REVEAL DETECTION DEVICE
(CT80)


CTX DETECTION DEVICE
(CT80-DR)


CTX DETECTION DEVICE
(CTX-9800)


POWER DIVERTER (SD)


GRAVITY ROLLER CONVEYOR


POWER TURNS
45° > 180°


POWER TURNS
20° > 45°


TYPICAL SPIRAL TURNS
RISE = 18" > 36"

GENERAL SYMBOL LEGEND

ELEVATION INDICATOR

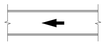
CONVEYOR FLOW ARROW

MAINTENANCE ACCESS PATH


MANUAL ENCODE

REVISION INDICATOR


NEW BHS EQUIPMENT


EXISTING BHS EQUIPMENT



BAGGAGE ROW 3'-0" TYPICAL

TUG & CONTAINER DOLLY

TUG & CART

PLAN VIEW FRONT VIEW SIDE VIEW

FIRE/SECURITY DOOR

TYPICAL GUARD RAIL

TYPICAL FLAT PLATE CLAIM UNIT OR MAKE-UP DEVICE

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ARCH	PROJECT ARCHITECT
ATR	AUTOMATIC TAG READER
BDD	BAGGAGE DIMENSIONING DEVICE
B.F.	BETWEEN FRAME
B.H.S.	BAGGAGE HANDLING SYSTEM
B.H.S.C.	BAGGAGE HANDLING SYSTEM CONTRACTOR
BLDG.	BUILDING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRP	BAGGAGE REMOVAL POINT
BVS	BAGGAGE VIEWING STATION
CENT'L	CENTRAL
CL	CENTERLINE
CLR	CLEAR
CONC.	CONCRETE
CONTR	CONTAINER
CONT	CONTINUOUS
CONV	CONVEYOR
CS	CONTROL STATION
DID	DIRECTIONAL INPUT DEVICE
DWG	DRAWINGS
EL	ELEVATION
ENGR.	ENGINEER OF RECORD
EQUIP.	EQUIPMENT
ETD	EXPLOSIVE TRACE DETECTION
FDRS	FIELD DATA REPORTING SYSTEM
FIN	FINISH
F.F.	FINISHED FLOOR
FL	FLOOR
GC	GENERAL CONTRACTOR
I.D.	IDENTIFICATION
INTFC	INTERFACE
INT'L	INTERNATIONAL
IOP	INPUT/OUTPUT PANEL
LVL	LEVEL
MAINT.	MAINTENANCE
MAX	MAXIMUM
MEZZ.	MEZZANINE
MIN	MINIMUM
MCC	MULTIPLEX CONTROL CONSOLE
MCP	MOTOR CONTROL PANEL
MTR	MOTOR
NIC	NOT IN CONTRACT
NO.	NUMBER
OA	OVERALL
O/C	ON CENTER
OPNG.	OPENING
OPS	OPERATIONS
PAX	PASSENGERS
PDP	POWER DISTRIBUTION PANEL
PE	PHOTOCELL
PLATF	PLATFORM
RFID	RADIO FREQUENCY IDENTIFICATION
REF	REFERENCE
REQ'D	REQUIRED
RRS	REMOTE RESOLUTION STATION
SD	HIGH SPEED DIVERTER
SIM	SIMILAR
S.S.	STAINLESS STEEL
STR	STRUCTURE
TEMP	TEMPORARY
TERM	TERMINAL
TC	TICKET COUNTER
TO	TOP OF
TOB	TOP OF BELT
TOP	TOP OF PLATFORM
TOS	TOP OF STEEL
TOT	TOP OF TILT TRAY
TYP	TYPICAL
U.N.O	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD

GENERAL BHS NOTES:

THE FOLLOWING WITH THE PROJECT SPECIFICATIONS AND BHS DRAWINGS APPLY:

1. ALL OTHER TRADES SHALL MAINTAIN 3'-0" CLEAR RIGHT-OF-WAY FROM TOP OF BELT TO NEAREST OBSTRUCTION ALONG WITH A 6'-0" CLEAR RIGHT-OF-WAY FROM WALKWAY TO NEAREST OBSTRUCTION. HANGING OF ANY EQUIPMENT COMPONENTS MECHANICAL, ELECTRICAL, PLUMBING, HVAC, ETC. FROM CONVEYOR, CATWALK OR ASSOCIATED SUPPORTS ARE NOT ALLOWED.
2. ASSUME RESPONSIBILITY TO MODIFY EXISTING CONVEYOR DRIVE ASSEMBLIES AS REQUIRED TO ACCOMMODATE SPECIFIED BHS ALTERNATIONS.
3. ALL BHS RIGHT-OF-WAY SHALL TAKE PRECEDENCE OVER ALL OTHER BUILDING SERVICES (MECHANICAL DUCT WORK AND PIPES, ELECTRICAL CONDUIT, SECURITY CONDUIT, SOUND CONDUIT, FIRE PROTECTION PIPING, PLUMBING PIPES, ETC.)
4. ALL FINISHED FLOOR DIMENSIONS ARE TAKEN FROM THE HIGH POINT OF THE FINISHED FLOOR.
5. ALL CATWALK LOCATED BY A POWER TURN MUST FOLLOW THE RADIUS OF THE POWER TURN WITH A 9" GAP TO THE 4" TOE PLATE.
6. ALL OPENINGS ARE TO BE COORDINATED WITH ARCHITECT AND STRUCTURAL.
7. CONVEYOR AND CATWALK SHALL NOT BE SUPPORTED FROM SOFFIT CEILING.

GENERAL DEMOLITION NOTES:

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2. FOR ALL SALVAGE REQUIREMENTS ON ALL MATERIALS AND EQUIPMENT REMOVED REFER TO GENERAL NOTES. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL NON-SALVAGED ITEMS.
3. THE BHSC SHALL FIELD VERIFY THE SYSTEM & ALL RIGHT OF WAYS PRIOR TO ENGINEERING, DESIGN, FABRICATION, AND/OR ANY INSTALLATION
4. RE: SPECIFICATION FOR ALL DEMOLITON REQUIREMENTS

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHOULD CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES AT A MINIMUM UL508A, NFP79, NEC.
2. ALL WIRES TO BE LABELED AT BOTH ENDS.
3. CONDUIT SIZING BASED ON 35% FILL.
4. PULLING STRENGTH OF WIRE NOT TO BE EXCEEDED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR. APPROPRIATE SIZED FIBER BUSHINGS SHALL BE INSTALLED ON ALL CONDUITS. CONDUIT FITTINGS THAT ENTER THE MCP, WORKSTATION CABINET, COMPUTER CABINET AND/OR ANY HOFFMAN TYPE J-BOX/PULL BOX. WHERE EMT IS UTILIZED, ALL CONNECTORS TO HAVE INSULATED THROAT.
5. WIRES ARE TO BE RUN CONTINUOUS FROM THE MCP'S/IOP'S DEVICES, MTR, PE, ETC. IF CONVEYOR HAS DEVICES THAT CORDS ARE REQUIRED, ADD A JUNCTION BOX AND CABLE THAT IS TO BE LABELED AT BOTH ENDS AS WELL AS THE JUNCTION BOX.
6. NO WELDING OF UNISTRUT TO SIDE GUARD SHALL BE PERMITTED BY CONTRACTOR. ALL UNISTRUT SHALL BE BOLTED AND RUN SQUARE TO SECTION. ANY MOUNTING SUPPORTS AND/OR CONDUIT RUNS NEEDED WILL NOT INTERFERE WITH MAINTENANCE ACCESS TO THE BELTS. ALL PHOTOCELLS ARE TO BE MOUNTED IN A VERTICAL ATTITUDE. PHOTOCELLS THAT ARE USED FOR JAM DETECTION, BAGGAGE TRACKING, ETC. ARE TO BE MOUNTED SO THAT THE CENTER OF THE PHOTOCELL BEAMS IS 1-1/2" FROM THE TOP OF THE SURFACE OF THE CONVEYOR BELT. PHOTOCELL MOUNTINGS ARE TO BE DIRECTLY ATTACHED TO THE CONVEYOR STRUCTURE AS REQUIRED. USE OF SHIMS BETWEEN THE CONVEYOR STRUCTURE AND THE PHOTOCELL MOUNTINGS IS NOT ACCEPTABLE. NO PENETRATIONS THROUGH THE SIDE GUARDS SHALL BE PERMITTED FOR PHOTOCELL MOUNTINGS OR MOUNTING BRACKETS. ALL HEX HEAD 1/4"-20 BOLTS OF APPROPRIATE LENG AND RELATED 1/4"-20 HARDWARE (FLAT WASHERS, LOCK WASHERS, AND NUTS) ARE TO BE USED FOR MOUNTING OF THE PHOTOCELLS. PENETRATIONS IN METAL SIDE GUARDS FOR PHOTOCELL BEAMS SHALL BE "FLARED" FROM THE INSIDE SURFACE OUTWARD. NO OTHER METHOD WILL BE ALLOWED.
7. TYPICAL DIMENSIONS OF SUBCONTRACTORS FOR ELECTRICAL WORK IS AT A DISCONNECT WITHIN 20FT. OF THE MCP(s). CONTRACTOR TO COORDINATE FINAL RESPONSIBILITIES.
8. ENCLOSE ALL POWER AND CONTROL WIRING, INCLUDING LOW-VOLTAGE WIRING, IN RIGID METAL CONDUIT (RMC ART. 344), ELECTRICAL METALLIC TUBING (EMT ART. 358), LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC ART. 350) OR WIREWAYS (ART. 376). WIREWAYS MAY BE USED IN PLACE OF RIGID CONDUIT PROVIDED THE APPLICATION MEETS ALL REQUIREMENTS OF ARTICLE 362 OF NATIONAL ELECTRICAL CODE. USE WIREWAYS WITH HINGED, SOLID COVERS. POSITION WIREWAYS TO PERMIT ACCESS WITH EQUIPMENT FULLY OPERATIONAL. DO NOT RUN LOW VOLTAGE (LESS THAN 30 VOLTS) OR DC CONTROL WIRES IN THE WIRE WAY WITH POWER WIRES. USE FASTEN COVERS WITH CAPTIVE SCREWS ON ALL WIREWAYS/ENCLOSURES. DO NOT USE WIREWAYS IN AREA SUBJECTED TO VEHICULAR TRAFFIC. USE LAY-IN TYPE WIREWAYS (OR EMT'S) TO AVOID THE NECESSITY OF TREADING WIRES THROUGH END CONNECTORS.
9. ALL CONTROL DEVICES (PE'S, MOTOR DISCONNECTS, CONTROL STATIONS) ARE TO BE MOUNTED ON THE CATWALK SIDE OF ALL CONVEYORS UNLESS OTHERWISE NOTED.
10. COORDINATE LOCATION OF ALL CONDUIT, DEVICES, DISCONNECTS AND OTHER EQUIPMENT WITH OWNER'S.
11. MOUNTING OF ANY MECHANICAL OR ELECTRICAL EQUIPMENT OR COMPONENTS ON THE OUTSIDE RADIUS SIDE GUARD OR POWER TURNS IS NOT ACCEPTED AND NO CONDUIT IS TO BE FASTENED TO THE OUTSIDE RADIUS OF SIDE GUARD OF POWER TURN/OR REMOVABLE SIDE GUARDS.
12. PROVIDE A MINIMUM OF 10% SPARE CONDUCTORS WITH A MINIMUM OF TWO (2) IN ALL CONTROL WIRING CONDUIT HOME RUNS.
13. THE CONTRACTOR SHALL FIELD VERIFY THE SYSTEM & ALL RIGHT OF WAYS PRIOR TO ENGINEERING, DESIGN, FABRICATION, AND/OR ANY INSTALLATIONS.
14. ALL EQUIPMENT, DEVICES AND ACCESSORIES SHALL BE LISTEDBY UNDERWRITERS LABORATORIES, INC. AND BEAR ITS LABEL.
15. PLEASE REFER TO ELECTRONIC FILE (PDF) TO VIEW "B5" SERIES DRAWINGS IN COLOR TO PROVIDE MORE CLARITY FOR EMERGENCY STOP ZONES.
16. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS, GOVERNING AUTHORITIES AND TSA TERMINAL CONSTRUCTION STANDARDS. REFER TO SEPCIFICATION - 34 77 15 ARTICLE 2.3.
17. REFER TO ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS, FROM THIS BID SCHEDULE AND PREVIOUS BID SCHEDULES, FOR COORDINATION OF WORK.
18. EACH TRADE SUBCONTRACTOR SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF EXISTING CONDITIONS. EACH TRADE SUBCONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL THE REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONDITIONS REQUIRING INFORMATION BEFORE PROCEEDING WITH THE WORK.
19. THE TRADE CONTRACTORS SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO ALTERATION AND CONSTRUCTION OPERATIONS AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THE PROJECT.
20. ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THE WORK SUCH AS ELECTRICAL, WATER, ETC. MUST BE SCHEDULED IN ACCORDANCE WITH GENERAL REQUIREMENTS OF CONTRACT.
21. GENERAL CONTRACTOR SHALL COORDINATE ALL WOOD BLOCKING, STEEL SUPPORTS AND ANY OTHER ITEMS WHICH ARE IMBEDDED IN DRYWALL PARTITIONS OR ENCLOSURES WHICH RELATE TO HIS WORK OR THE OF ANY SEPARATE CONTRACTORS. ALL WOOD BLOCKING, BRIDGING, BRACING, FRAMING, ETC. SHALL BE FIRE RETARDANT TREATED AS CALLED FOR BY THE BUILDING CODE.
22. WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
23. UNLESS OTHERWISE NOTED DIMENSIONS ARE TO FACE OF STUD TO FACE OF STUD OR CENTERLINE OF COLUMN. DIVISIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
24. ALL DIMENSIONS SHALL BE VERIFIED ON THE SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES.
25. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER BY GASKETS OR COATINGS OR BOTH TO AVOID GALVANIC CORROSION ACTION.
26. CONVEYOR BED PAINT TO BE TOUCH-UP PAINTED WITH MATCHING PAINT AFTER WELDING.
27. THESE DRAWINGS ARE PROVIDED FOR INFORMATION ONLY. THEY ARE SUBMITTED TO DESCRIBE SCOPE OF WORK AND TO BE USED FOR PRICING ONLY.

GENERAL NOTES:

1. CONVEYOR ELEVATIONS ARE TOB FROM FINISHED FLOOR ELEVATION.
2. ALL DIMENSIONS FROM COLUMN CENTERLINES ARE FOR REFERENCE ONLY. THE BHSC SHALL FIELD VERIFY THE SYSTEM & ALL RIGHT OF WAYS PRIOR TO ENGINEERING, DESIGN, FABRICATION, AND/OR ANY INSTALLATION.
3. THESE DRAWINGS ARE PROVIDED FOR INFORMATION ONLY. THEY ARE SUBMITTED TO DESCRIBE SCOPE OF WORK AND TO BE USED FOR PRICING ONLY.

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **50% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

LEGEND, GENERAL NOTES & DRAWING LIST

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER: **QB0.01**
VOLUME:

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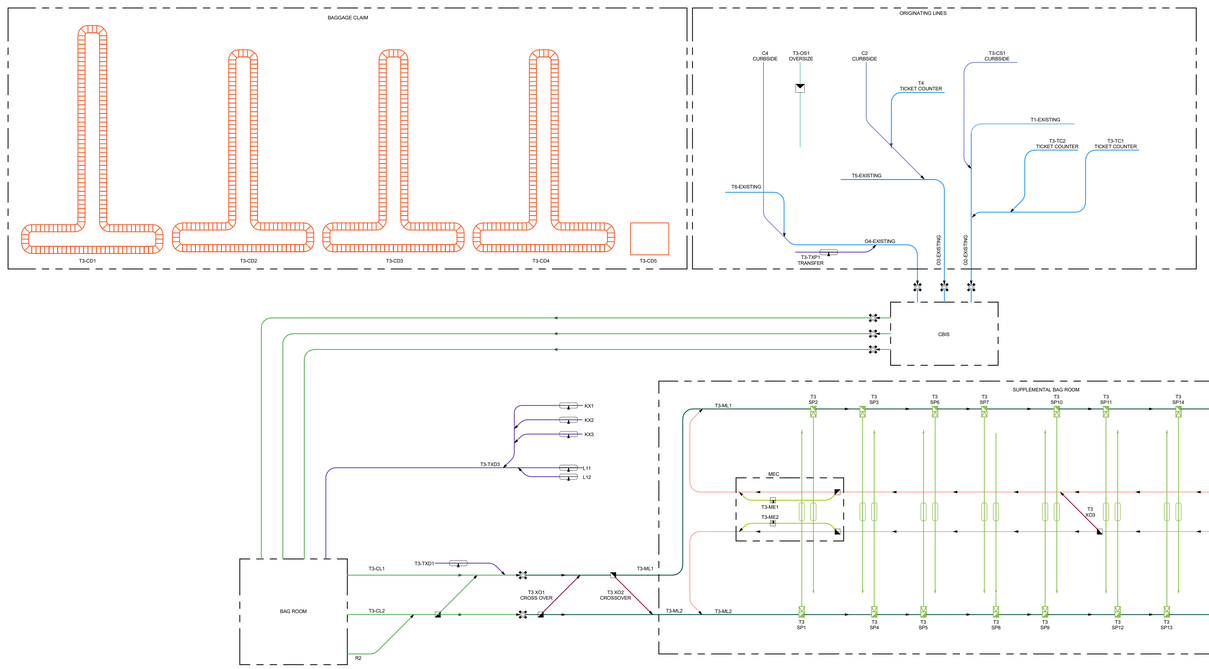
LEGEND

CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	

AMERICAN AIRLINES T3 SINGLE LINE DIAGRAM



COLOR LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSS OVER SUBSYSTEMS
- CURBSIDE SUBSYSTEMS
- EARLY BAGGAGE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- ENCODE SUBSYTEMS
- MAKEUP - SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- OUT OF GAUGE SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- EDS SUBSYSTEMS
- OSR SUBSYSTEMS
- ALARM SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- RECHECK SUBSYSTEMS
- RE-INSERT SUBSYSTEMS

SCHEMATIC SYMBOL LEGEND

- AREA BOUNDARY
- AUTOMATIC TAG READER LASER (360)
- CAROUSEL
- CENTERING DEVICE
- EDS LEVEL 1
- BAGGAGE REMOVAL POINT
- GRAVITY MAKE-UP CHUTE
- HIGH SPEED DIVERTER
- MANUAL ENCODE STATION
- LOAD BELT
- UNLOAD BELT
- FLOW DIRECTION
- VERTICAL SORTER
- VERTICAL MERGE

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

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STAMPING CONSULTANT
Introba
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Irving, TX 75063

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REVISION:

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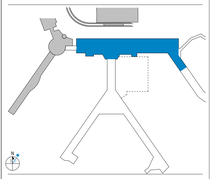
C.O.C.A.002.01



SINGLE LINE DIAGRAM

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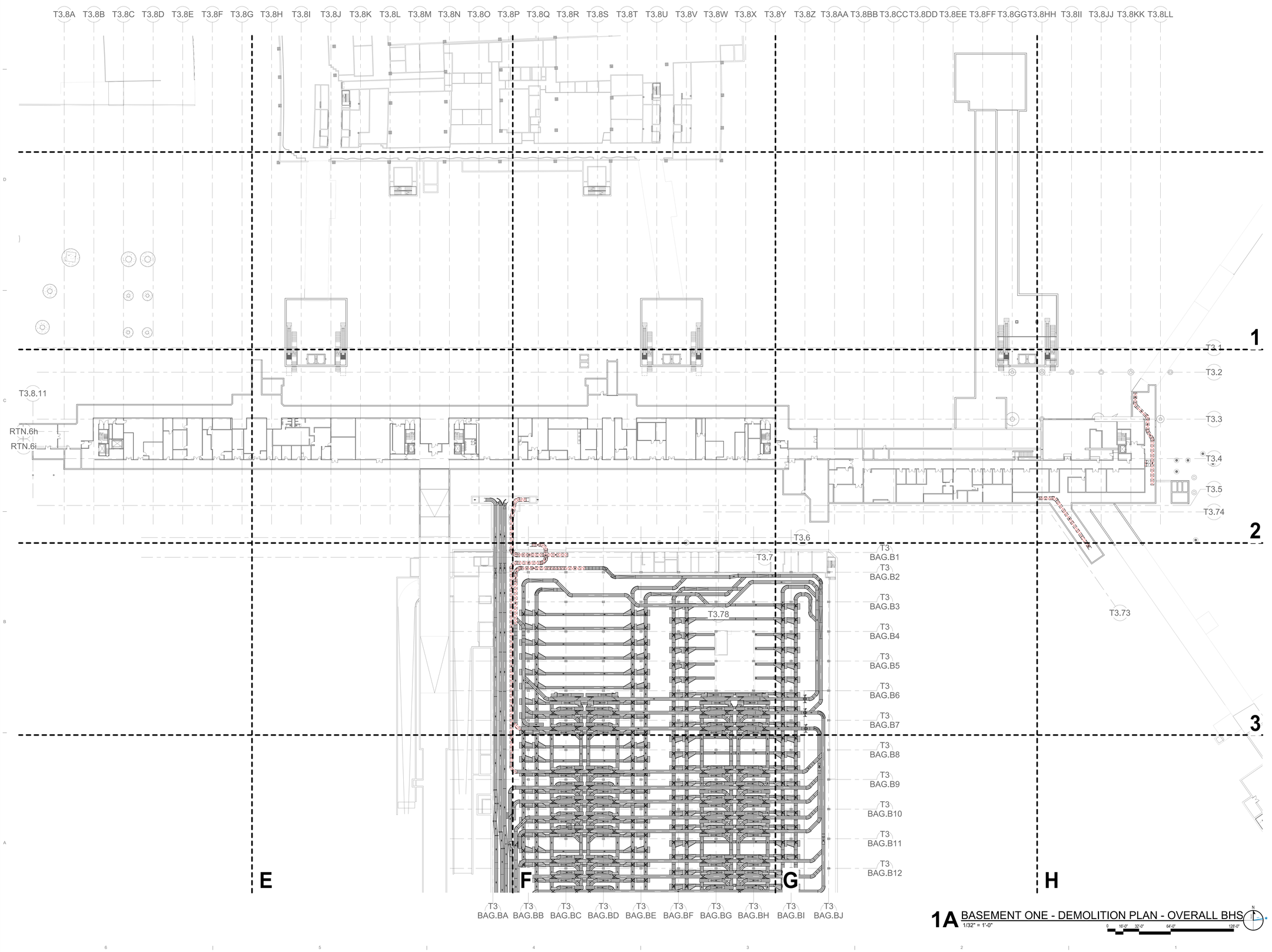

1A BASEMENT ONE - DEMOLITION PLAN - OVERALL BHS
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
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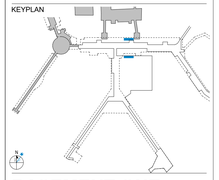
KEYPLAN



BASEMENT ONE - DEMOLTION PLAN - OVERALL BHS

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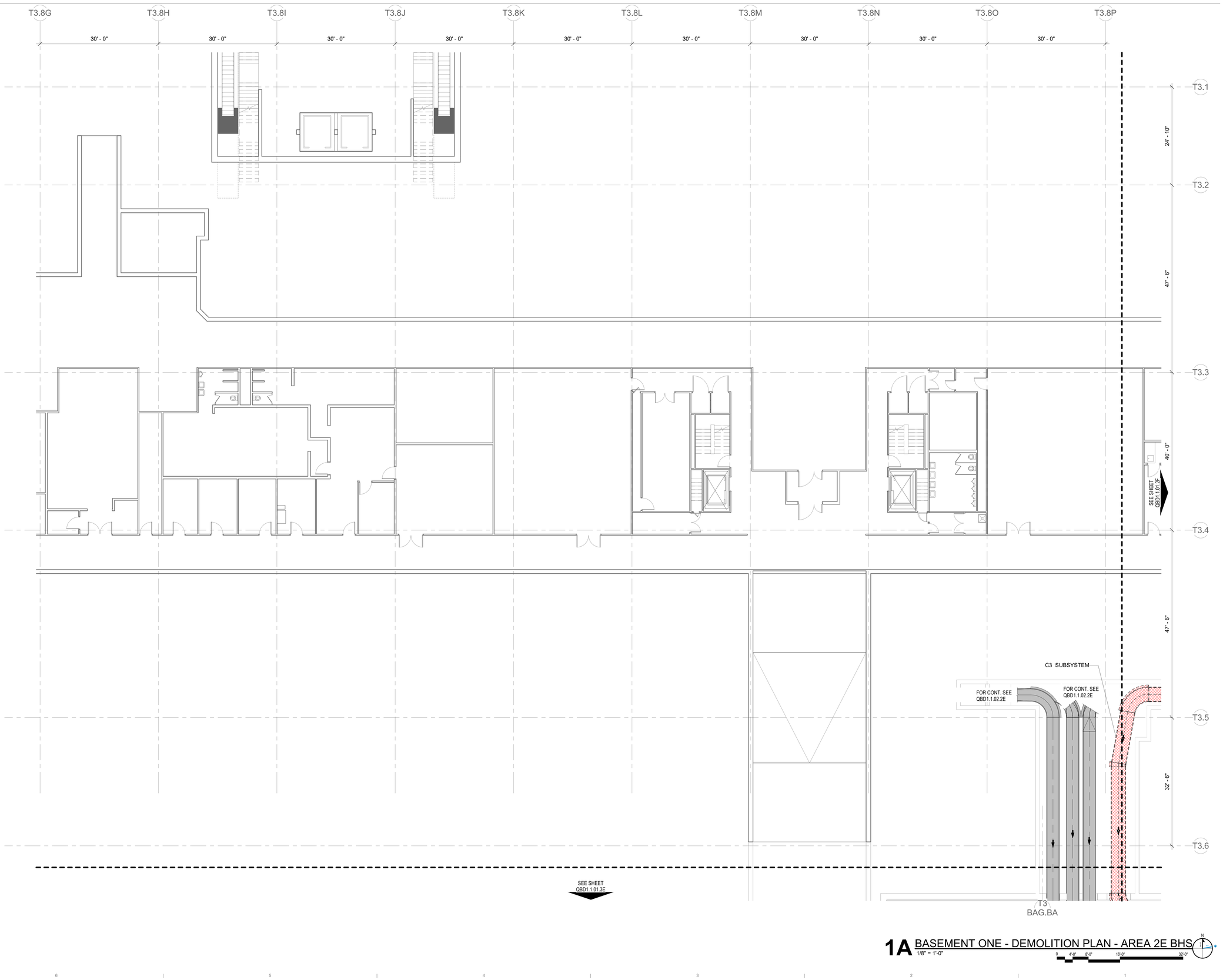

1A BASEMENT ONE - DEMOLITION PLAN - AREA 2E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

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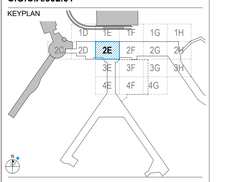

BASEMENT ONE - DEMOLITION PLAN - AREA 2E BHS

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- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A BASEMENT ONE - DEMOLITION PLAN - AREA 2F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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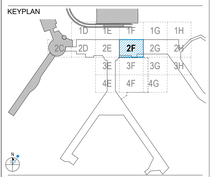

BASEMENT ONE - DEMOLITION PLAN - AREA 2F BHS

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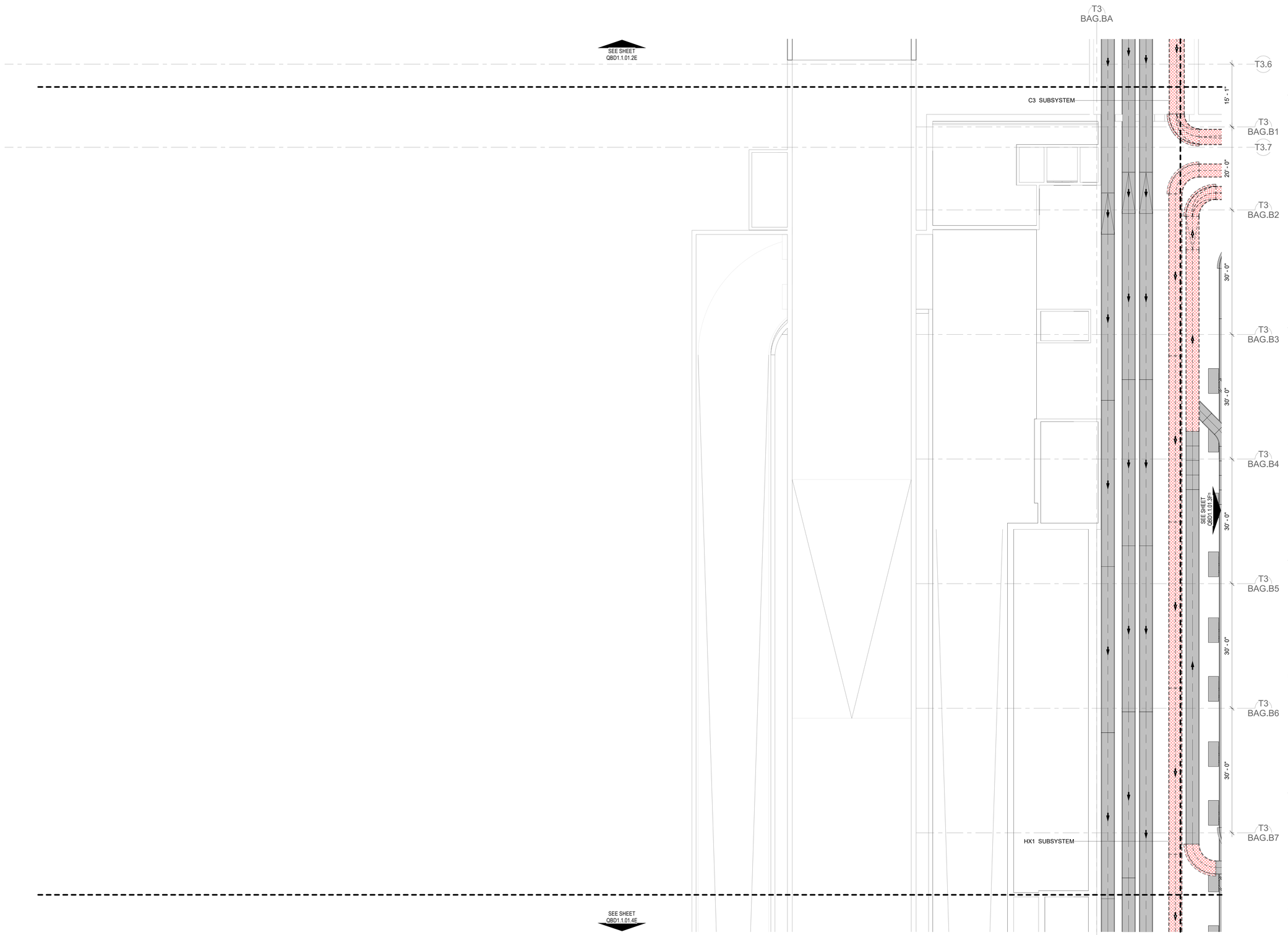

1A BASEMENT ONE - DEMOLITION PLAN - AREA 3E BHS
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0 4'-0" 8'-0" 16'-0" 32'-0"

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Introba
6440 N Belt Line Rd #125
Irving, TX 75063

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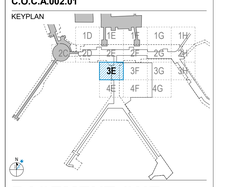
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



BASEMENT ONE - DEMOLITION PLAN - AREA 3E BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER: **QBD1.1.01.3E** VOLUME:

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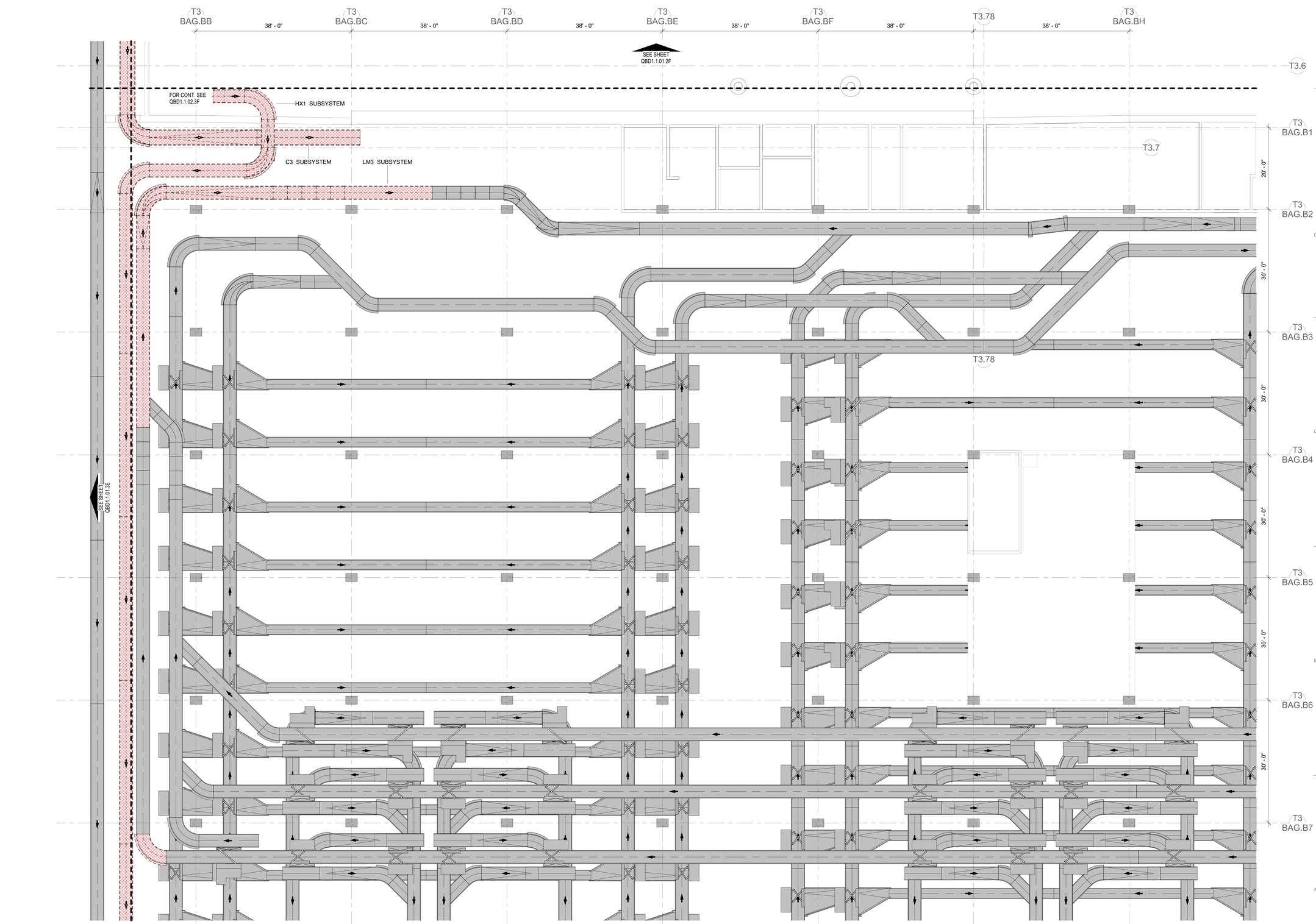
4. RE: SPECIFICATION FOR ALL DEMOLITON REQUIREMENTS

LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A BASEMENT ONE - DEMOLITION PLAN - AREA 3F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 11:12:08 AM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

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Introba
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Irving, TX 75063

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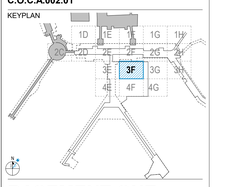
ISSUANCE: **50% DESIGN** — PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD** — REVISION:

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



BASEMENT ONE - DEMOLITION PLAN - AREA 3F BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER VOLUME:
QBD1.1.01.3F

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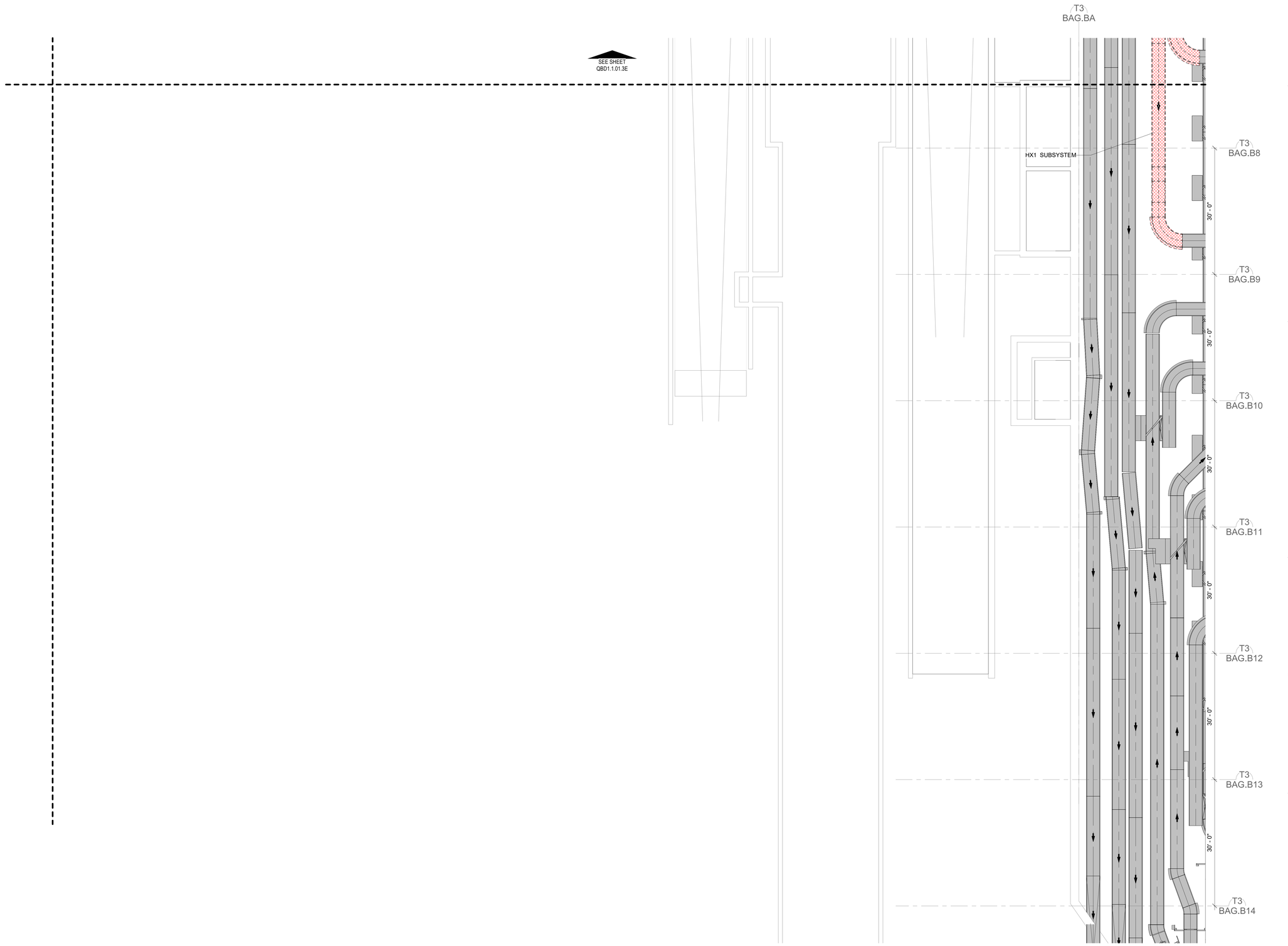

1A BASEMENT ONE - DEMOLITION PLAN - AREA 4E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
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STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

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ISSUANCE
60% DESIGN

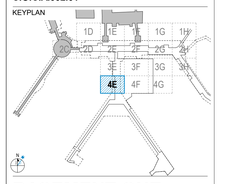
PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



BASEMENT ONE - DEMOLITION PLAN - AREA 4E BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**

SHEET NUMBER
QBD1.1.01.4E

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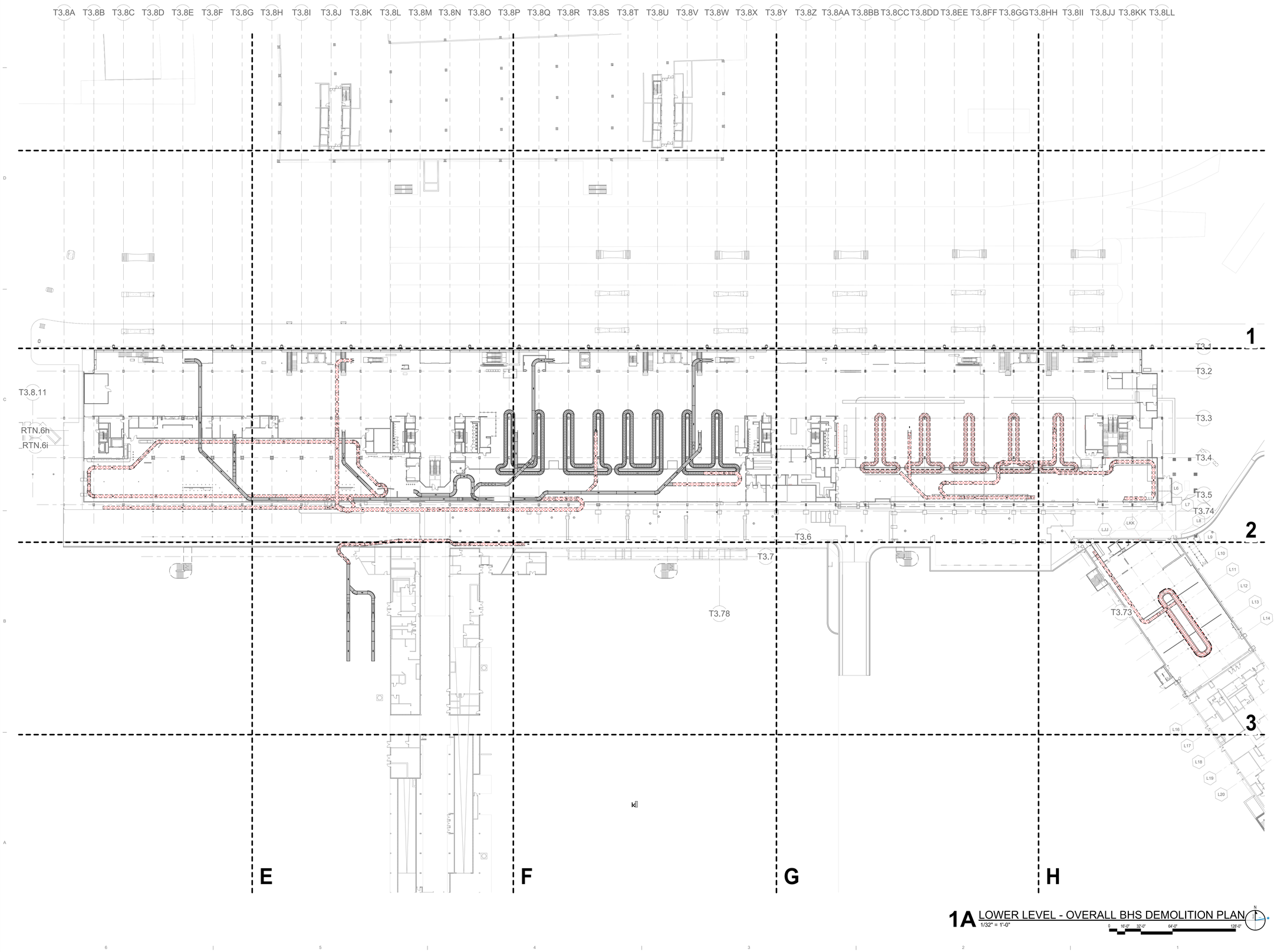

1A LOWER LEVEL - OVERALL BHS DEMOLITION PLAN
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

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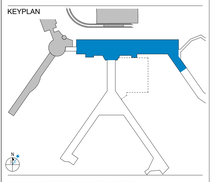
PHASE: **DD**
REVISION
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL - DEMOLITION PLAN - OVERALL BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER
QBD1.1.02
VOLUME:

3/20/2023 1:21:36 PM

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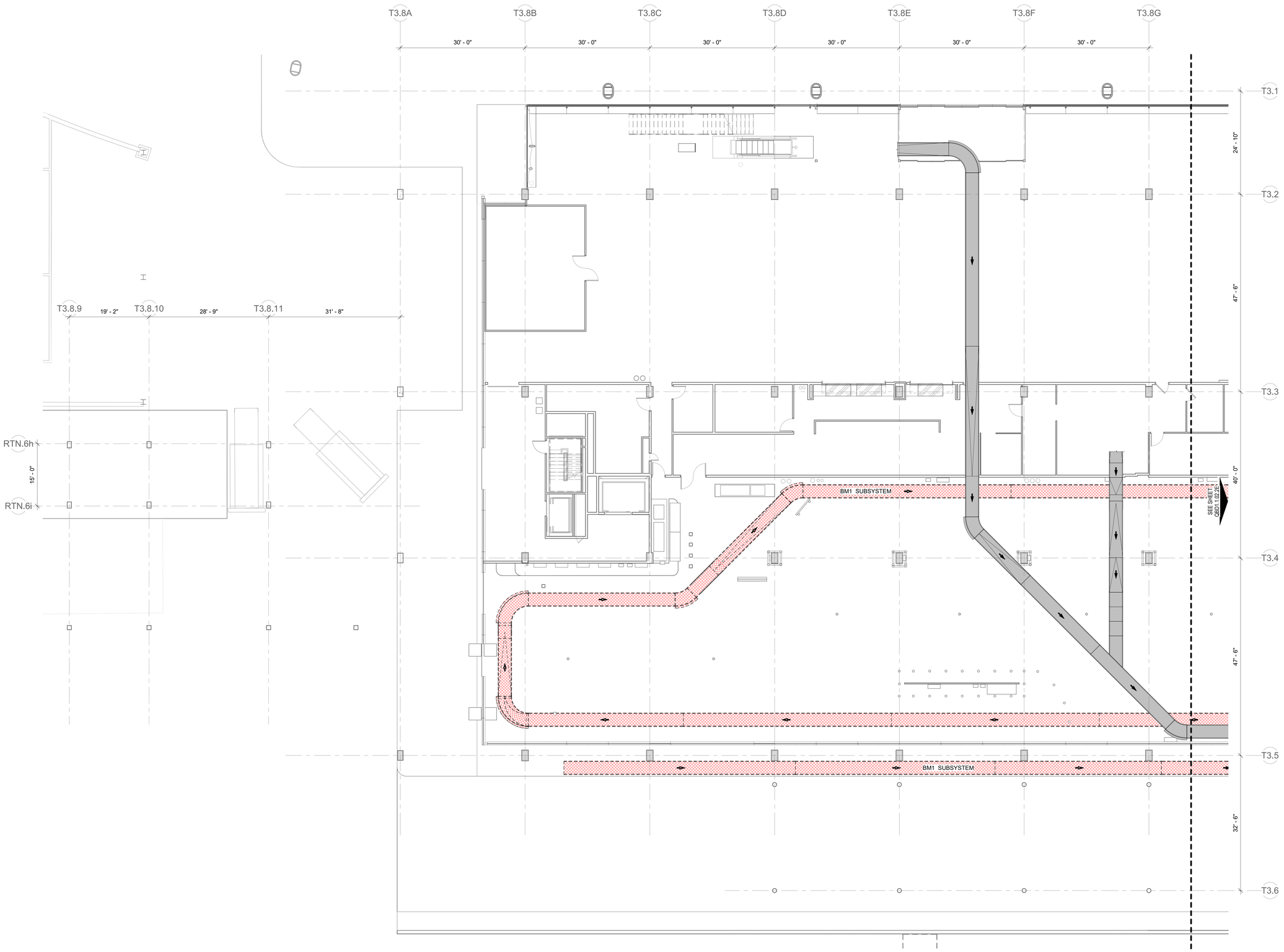

1A LOWER LEVEL - DEMOLITION PLAN - AREA 2D BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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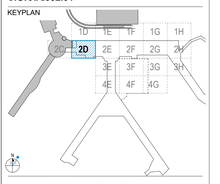
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL - DEMOLITION PLAN - AREA 2D BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER: **QBD1.1.02.2D**
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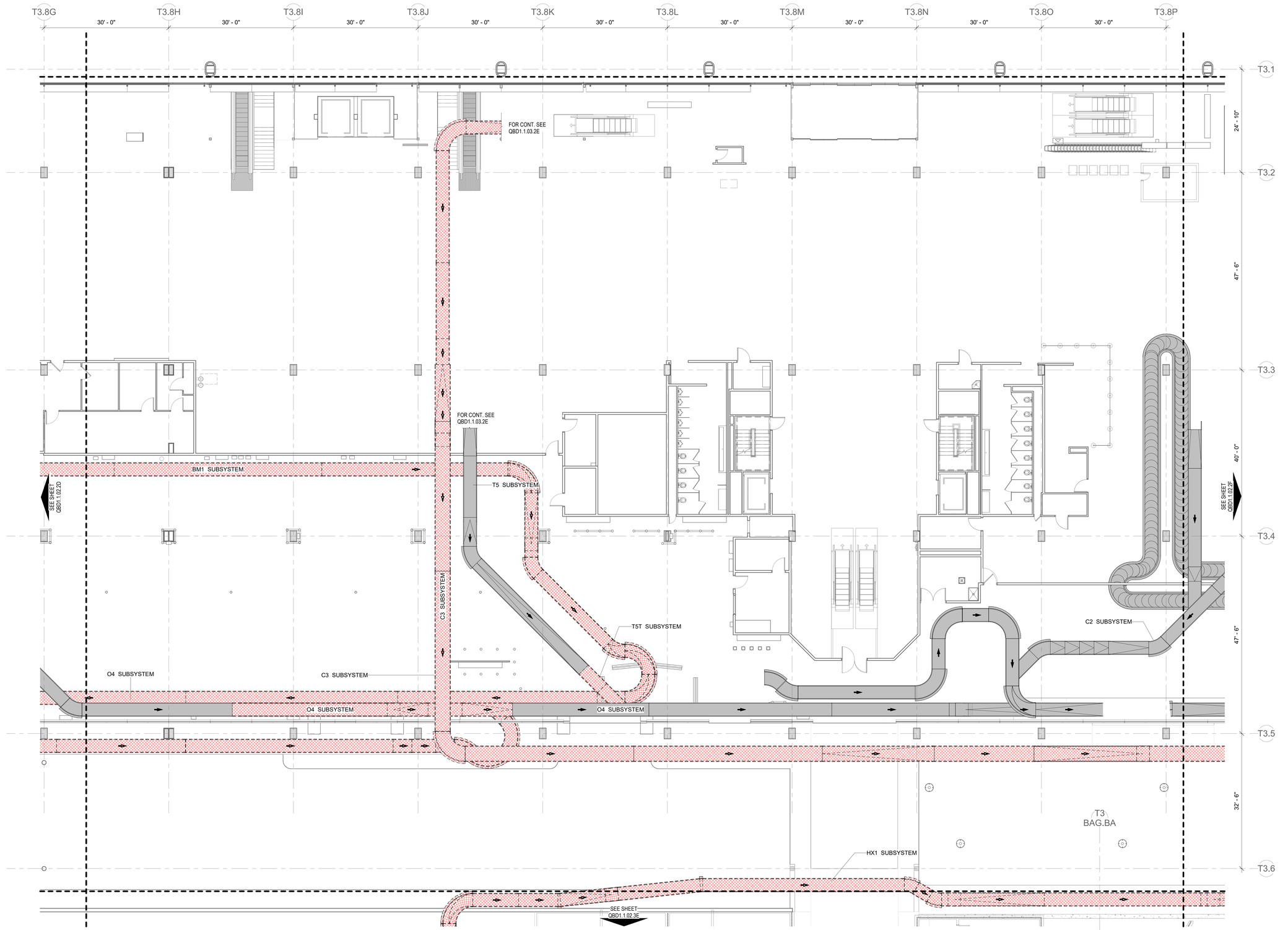

1A LOWER LEVEL - DEMOLITION PLAN - AREA 2E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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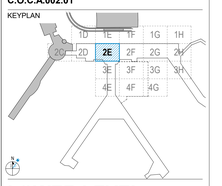

LOWER LEVEL - DEMOLITION PLAN - AREA 2E BHS

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SHEET NUMBER VOLUME:
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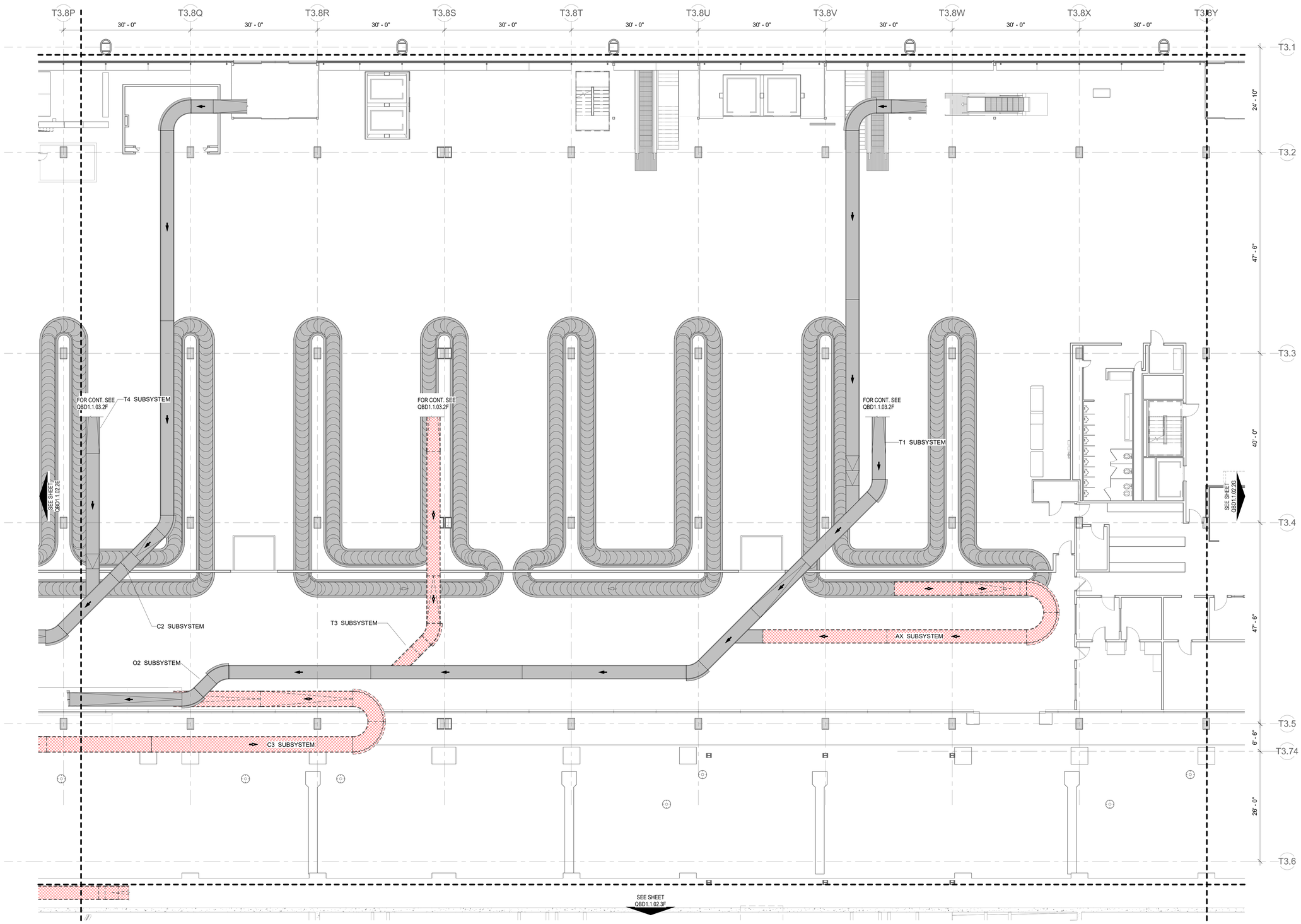

1A LOWER LEVEL - DEMOLITION PLAN - AREA 2F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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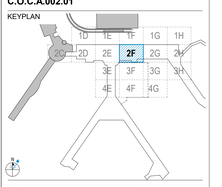

LOWER LEVEL - DEMOLITION PLAN - AREA 2F BHS

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SHEET NUMBER: **QBD1.1.02.2F**
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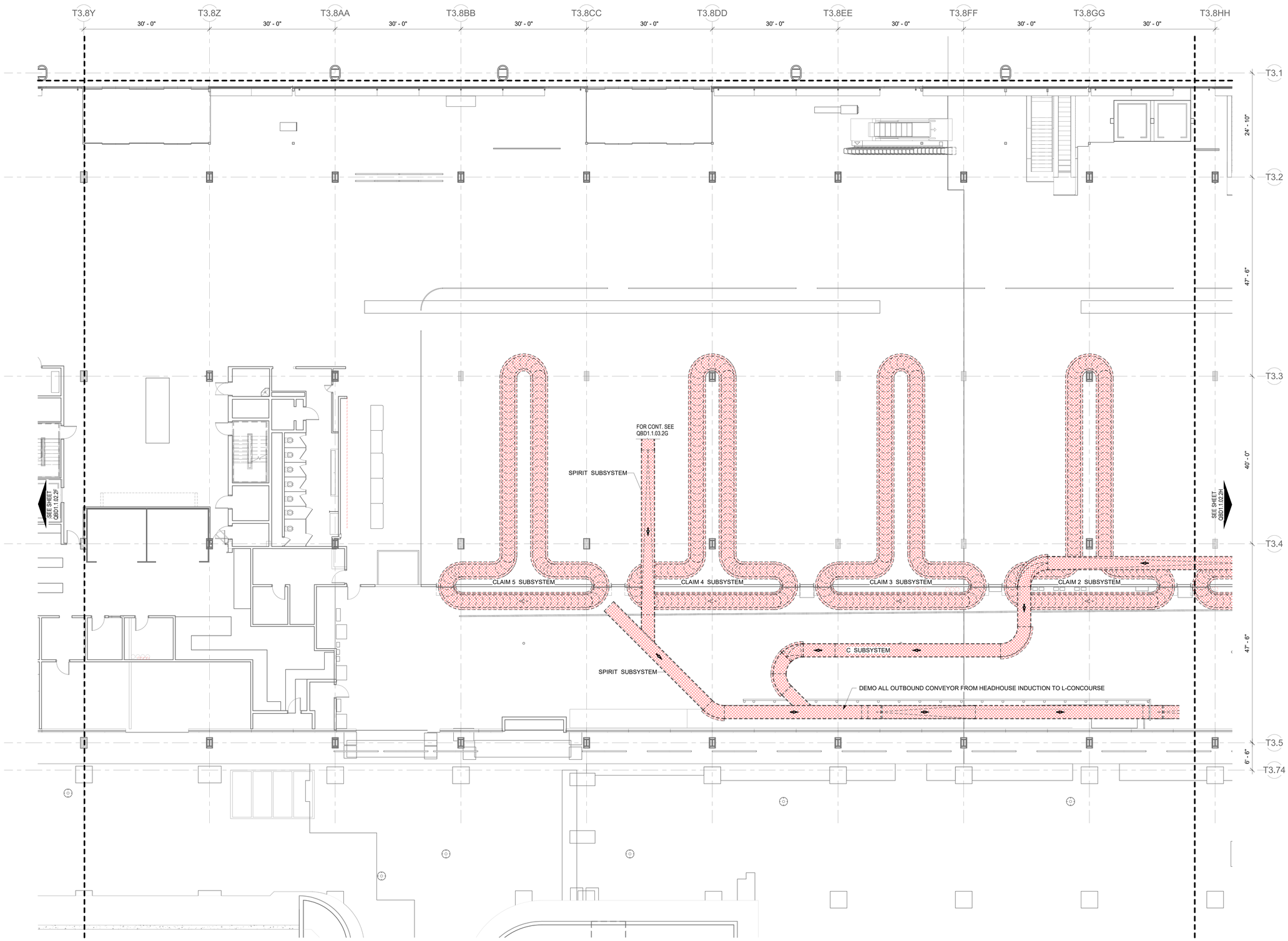

1A LOWER LEVEL - DEMOLITION PLAN - AREA 2G BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 11:13:28 AM

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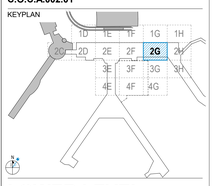

LOWER LEVEL - DEMOLITION PLAN - AREA 2G BHS

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SHEET NUMBER
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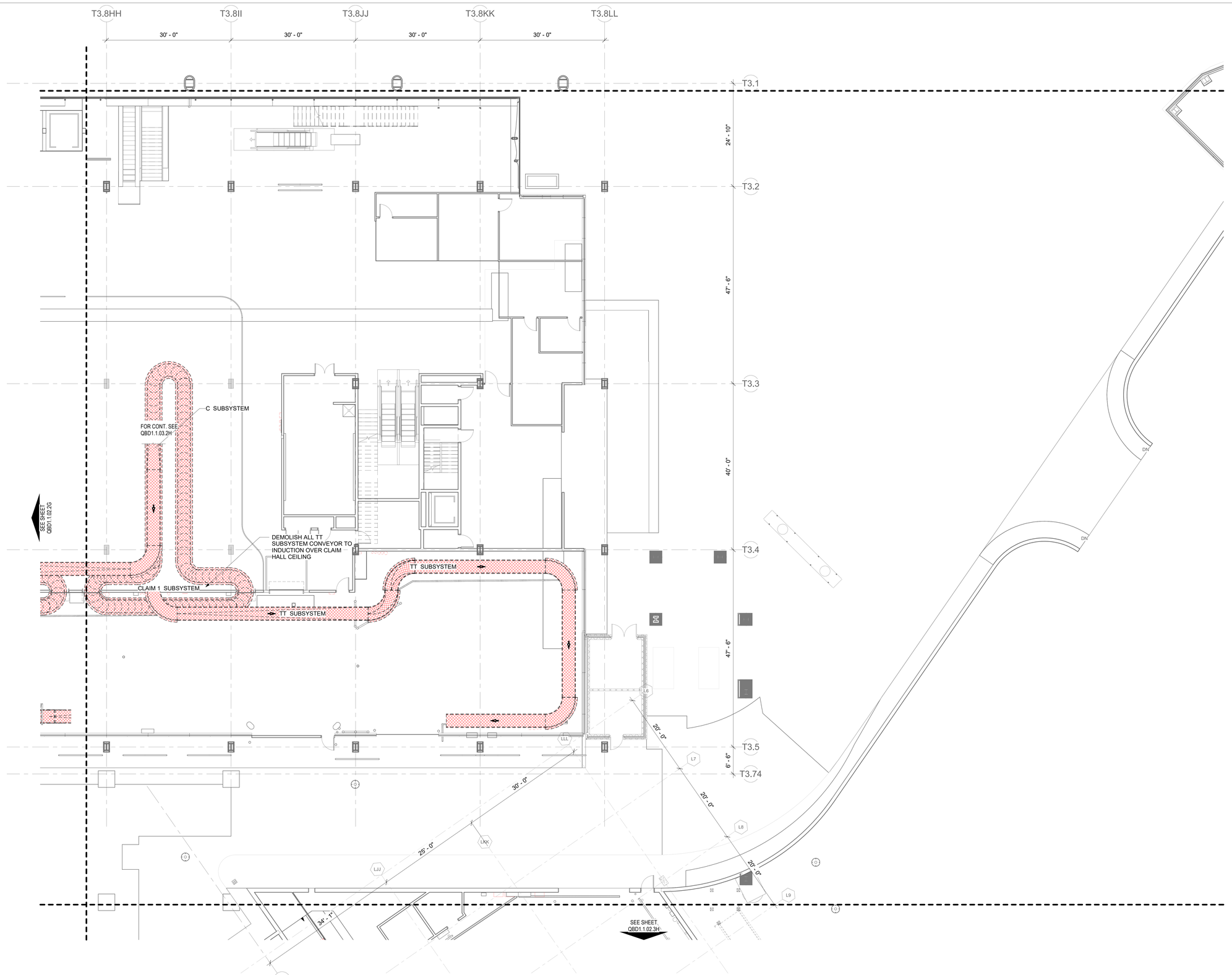
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A LOWER LEVEL - DEMOLITION PLAN - AREA 2H BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

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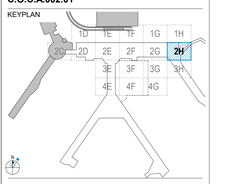
NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL - DEMOLITION PLAN - AREA 2H BHS

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SHEET NUMBER: **QBD1.1.02.2H** VOLUME:

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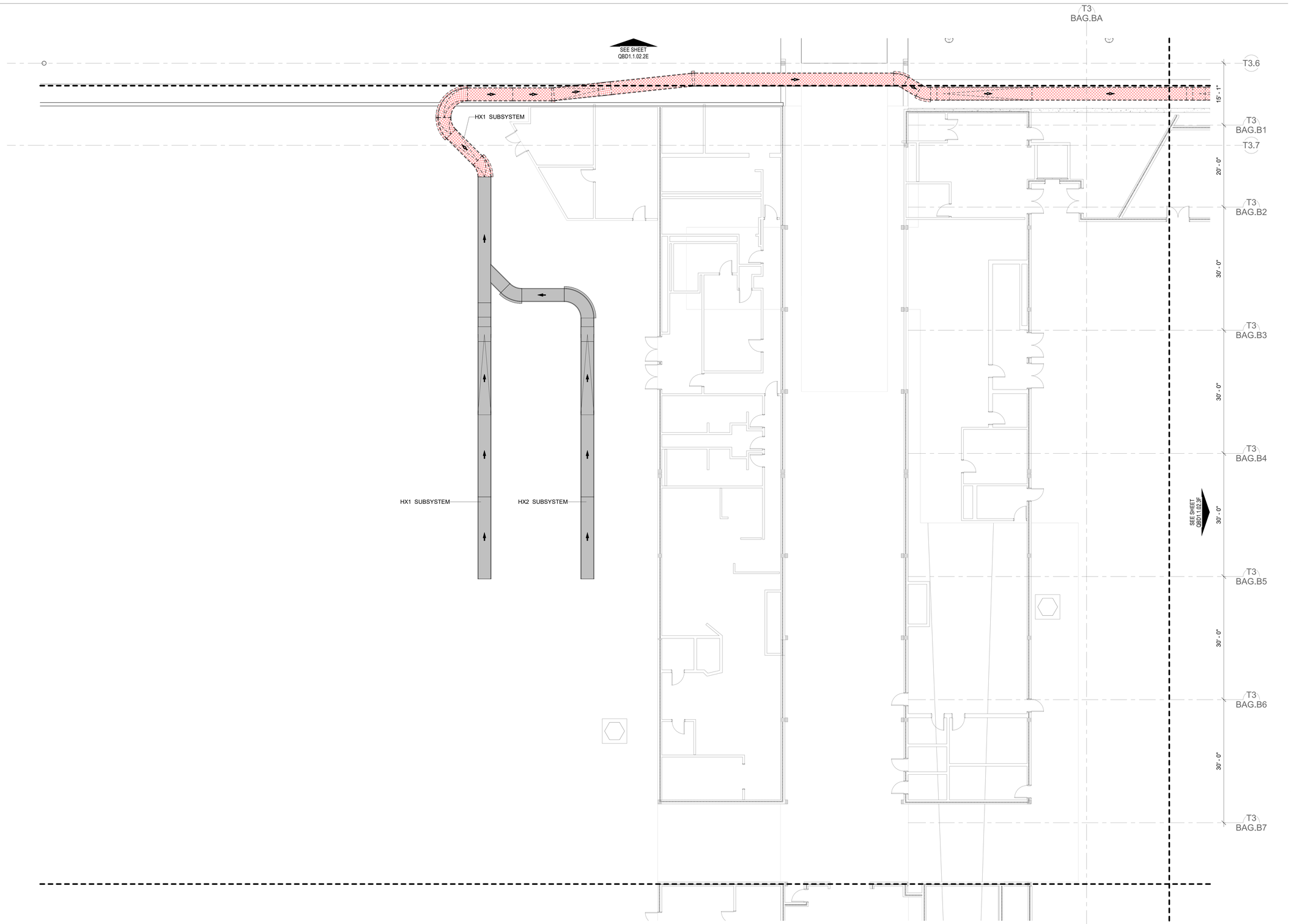

1A LOWER LEVEL - DEMOLITION PLAN - AREA 3E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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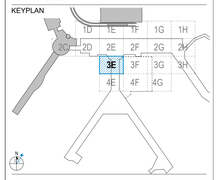
REVISION:

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



LOWER LEVEL - DEMOLITION PLAN - AREA 3E BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER: **QBD1.1.02.3E**
VOLUME:

GENERAL DEMOLITION NOTES:

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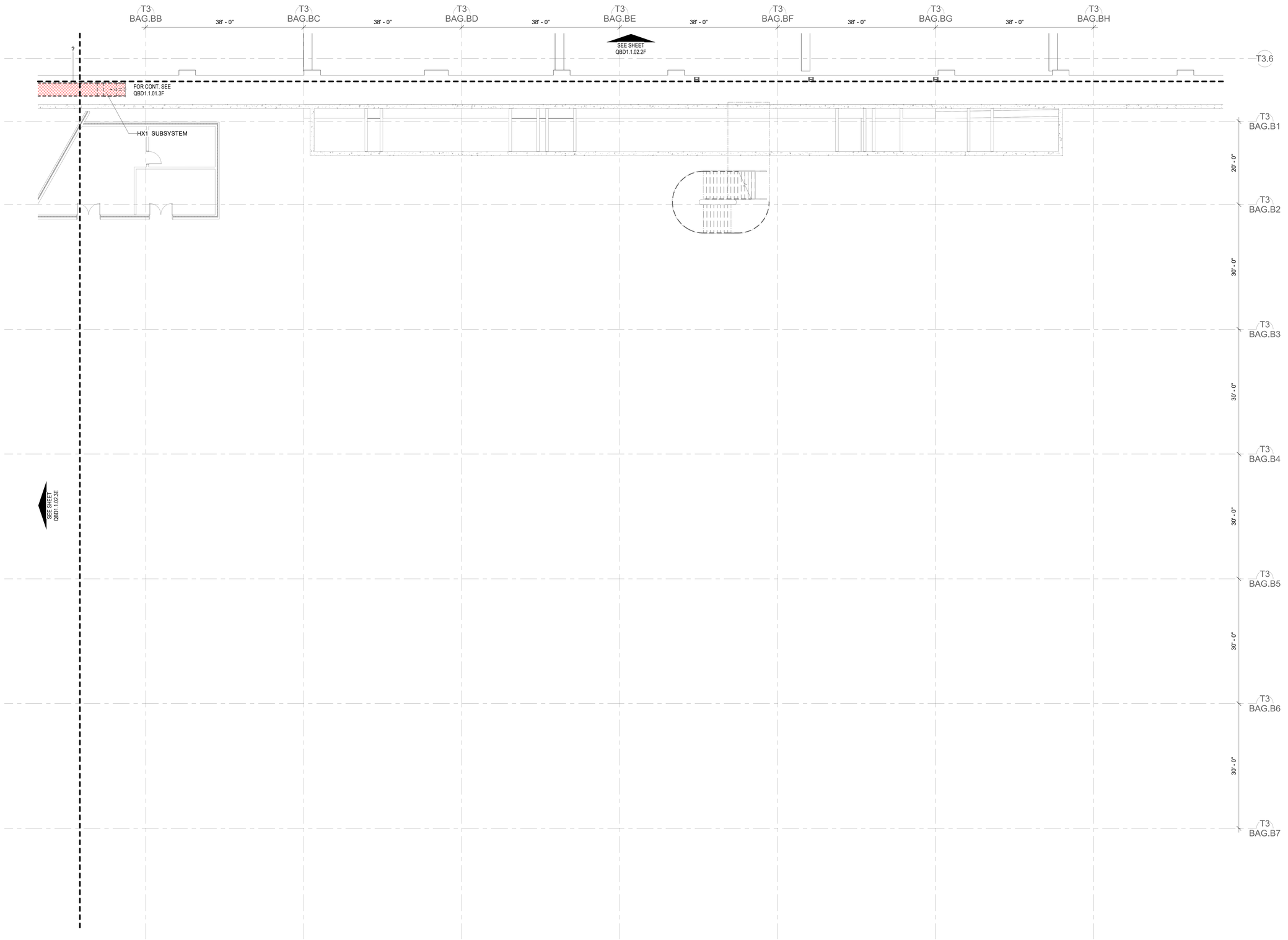

1A LOWER LEVEL - DEMOLITION PLAN - AREA 3F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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MAYOR

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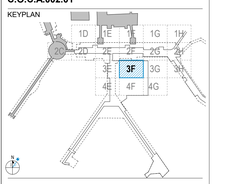
KEYPLAN



LOWER LEVEL - DEMOLITION PLAN - AREA 3F BHS

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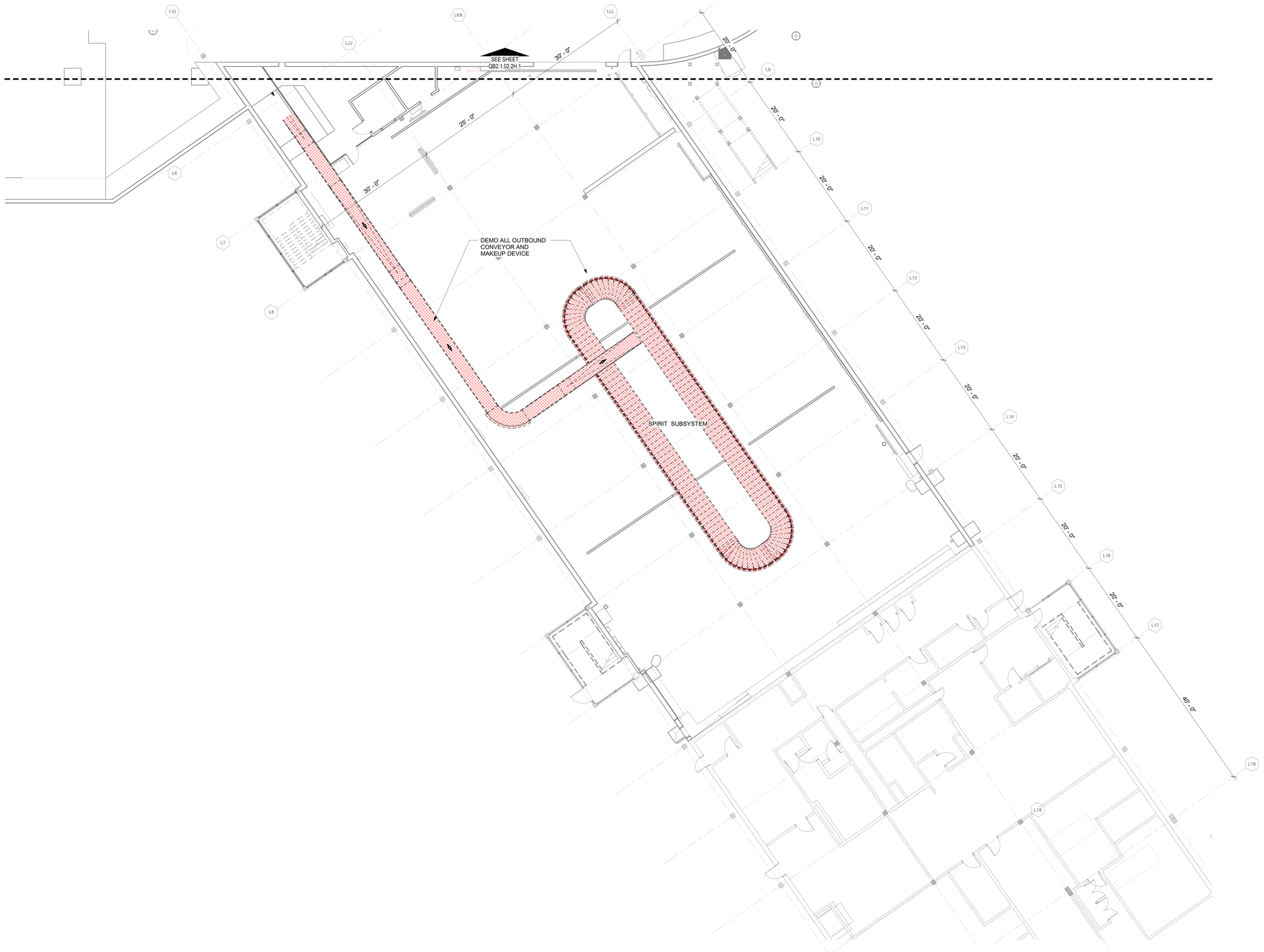

1A LOWER LEVEL - DEMOLITION PLAN - AREA 3H BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
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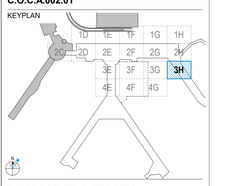

LOWER LEVEL - DEMOLITION PLAN - AREA 3H BHS

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LEGEND

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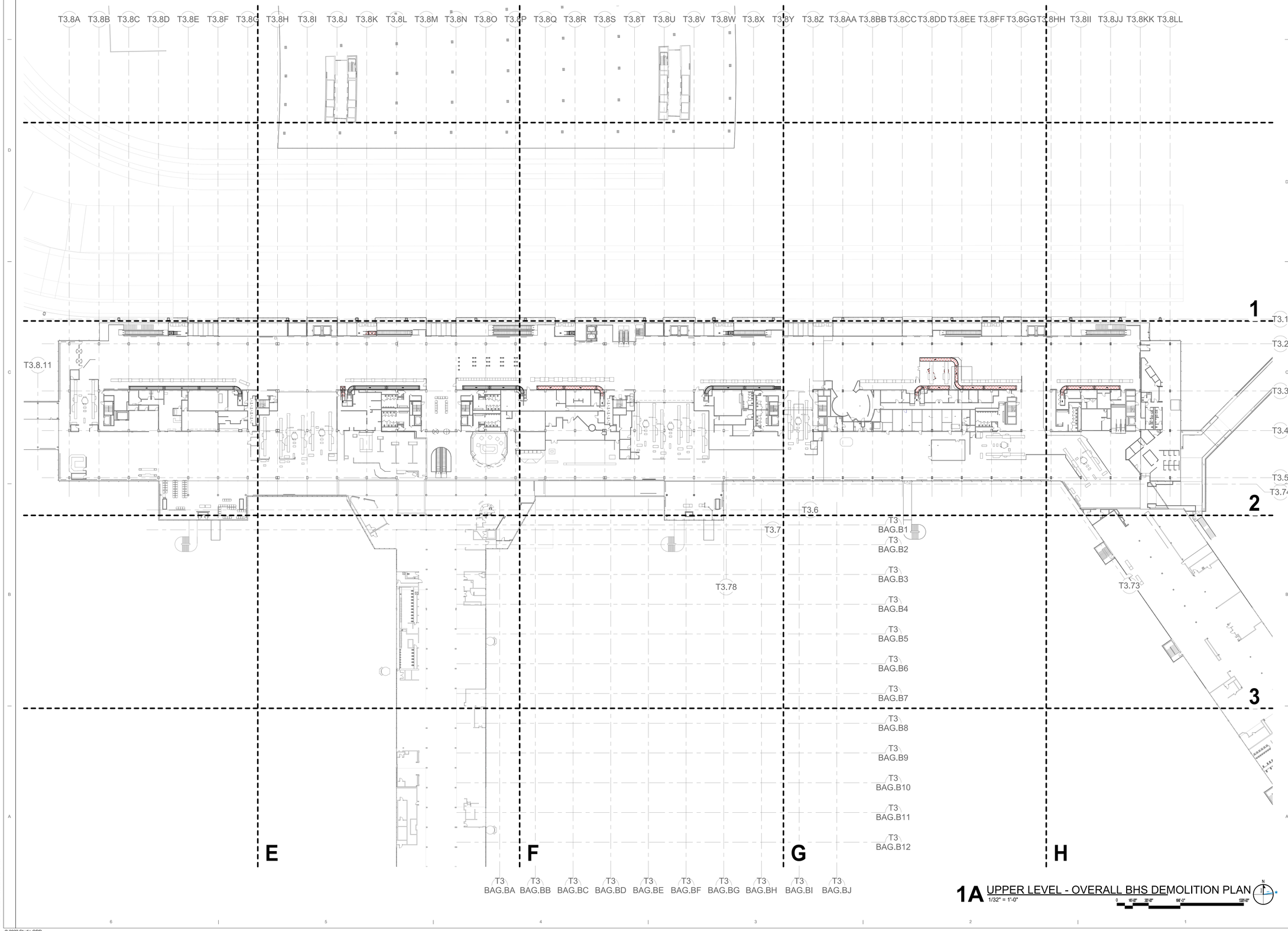

1A UPPER LEVEL - OVERALL BHS DEMOLITION PLAN
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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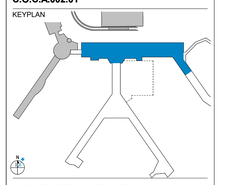
KEYPLAN



UPPER LEVEL - DEMOLITION PLAN - OVERALL BHS

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SHEET NUMBER: **QBD1.1.03**
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LEGEND

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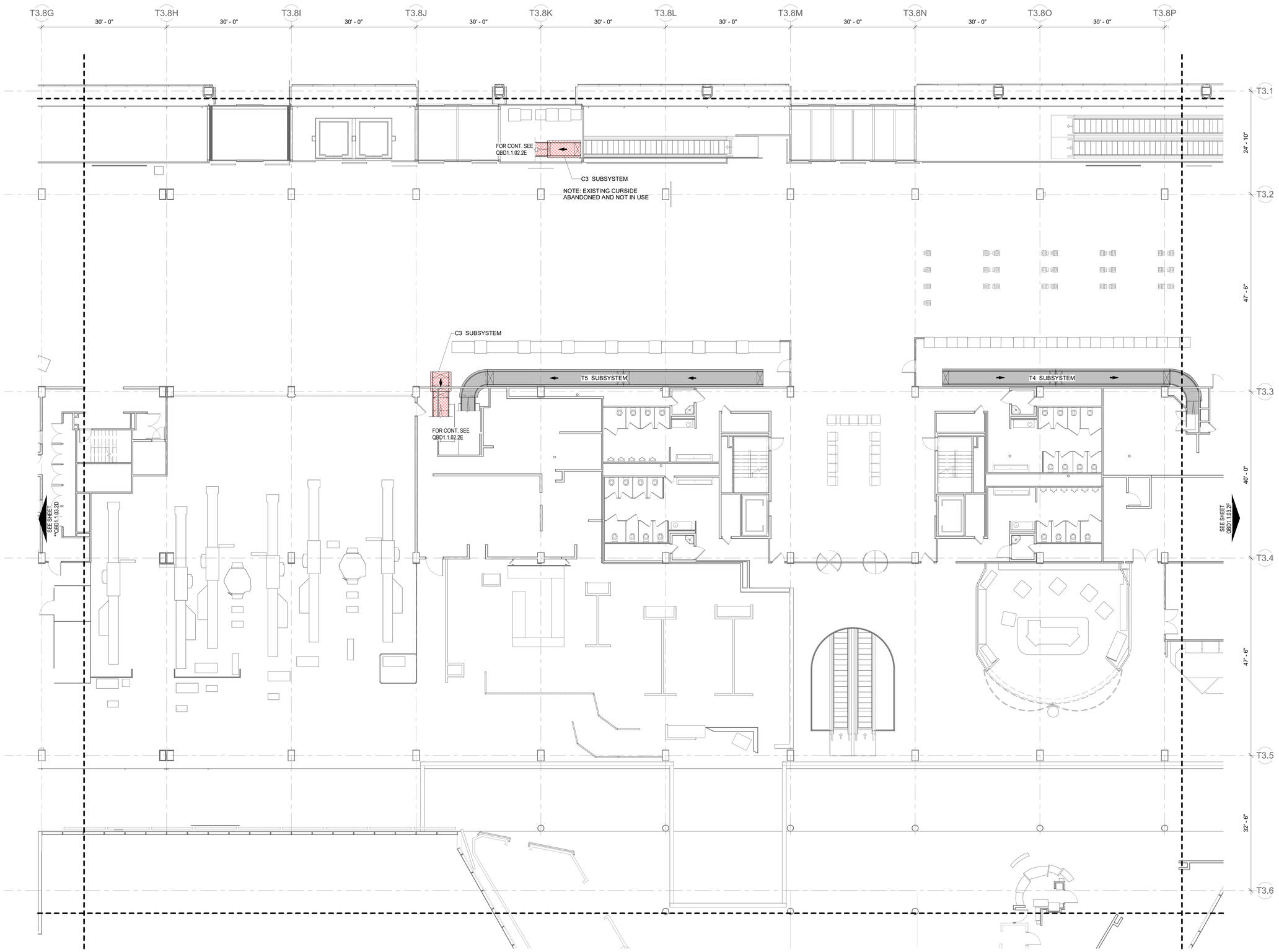

1 UPPER LEVEL - DEMOLITION PLAN - AREA 2E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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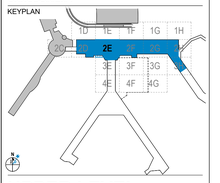

UPPER LEVEL - DEMOLITION PLAN - AREA 2E BHS

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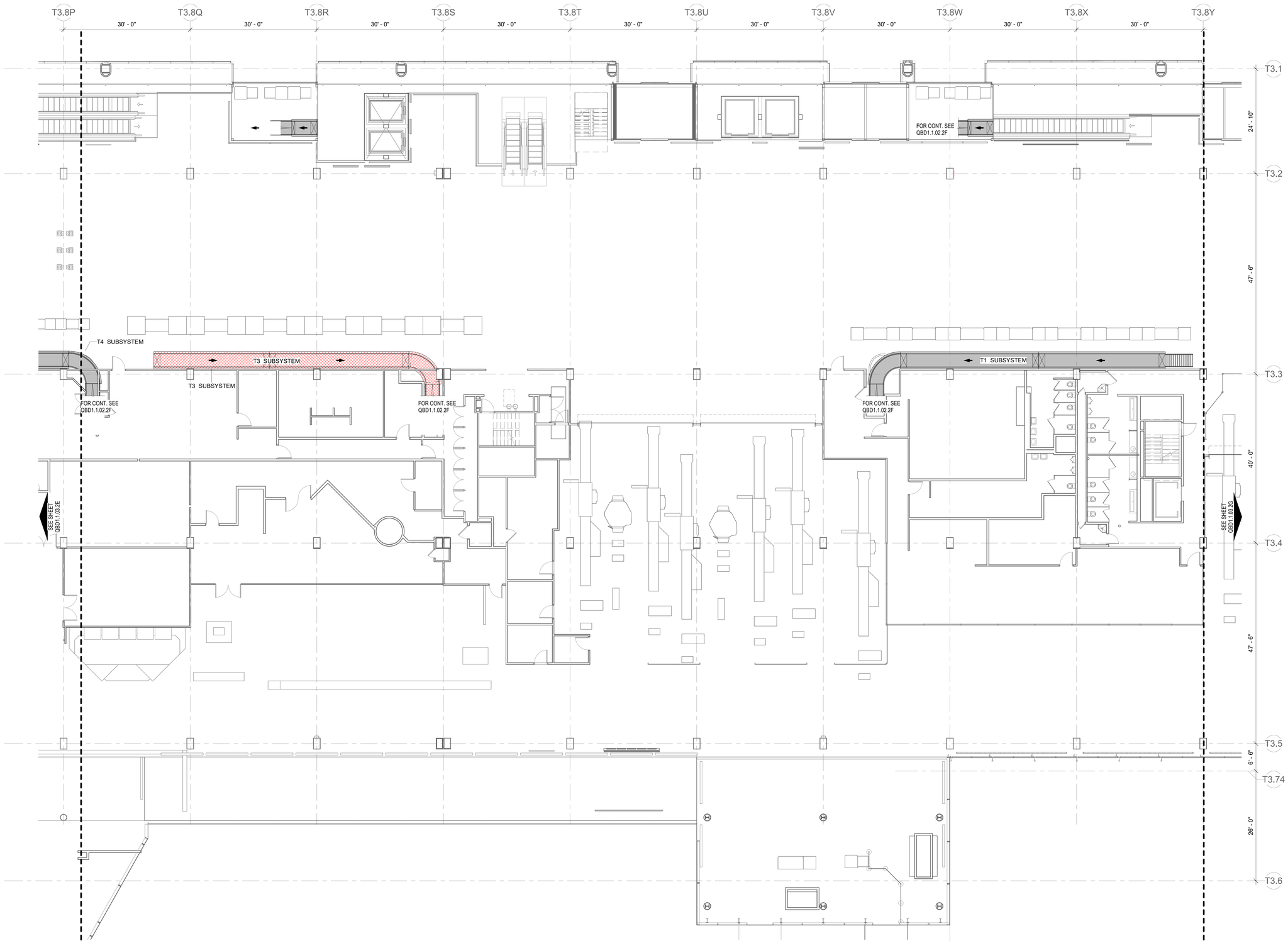

T3 BAG.BG

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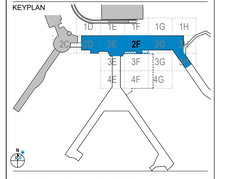

UPPER LEVEL - DEMOLITION PLAN - AREA 2F BHS

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SHEET NUMBER
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VOLUME:

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LEGEND

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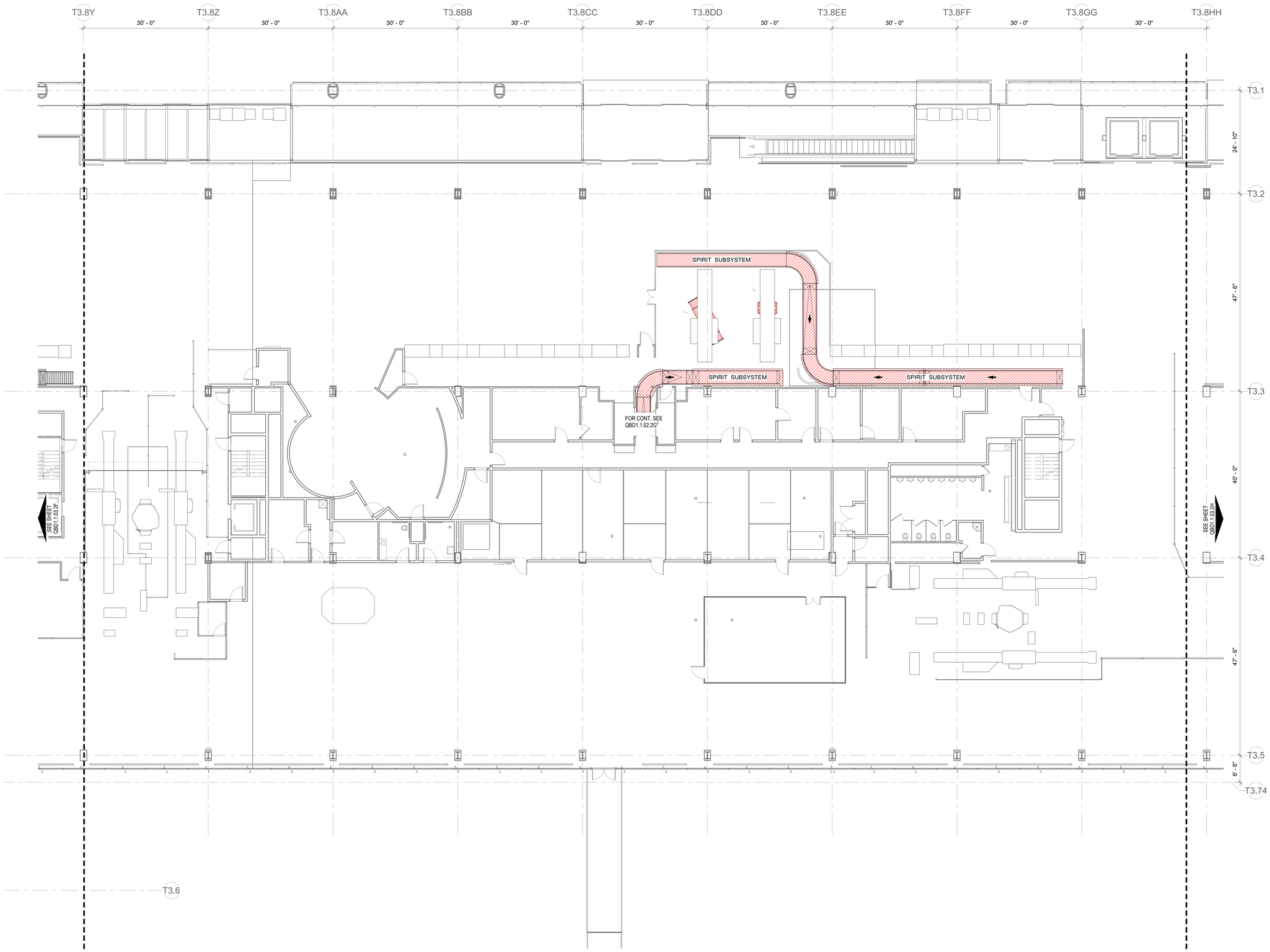

1 UPPER LEVEL - DEMOLITION PLAN - AREA 2G BHS
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0 4'-0" 8'-0" 16'-0" 32'-0"

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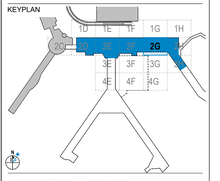

UPPER LEVEL - DEMOLITION PLAN - AREA 2G BHS

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SHEET NUMBER: **QBD1.1.03.2G**
VOLUME:

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LEGEND

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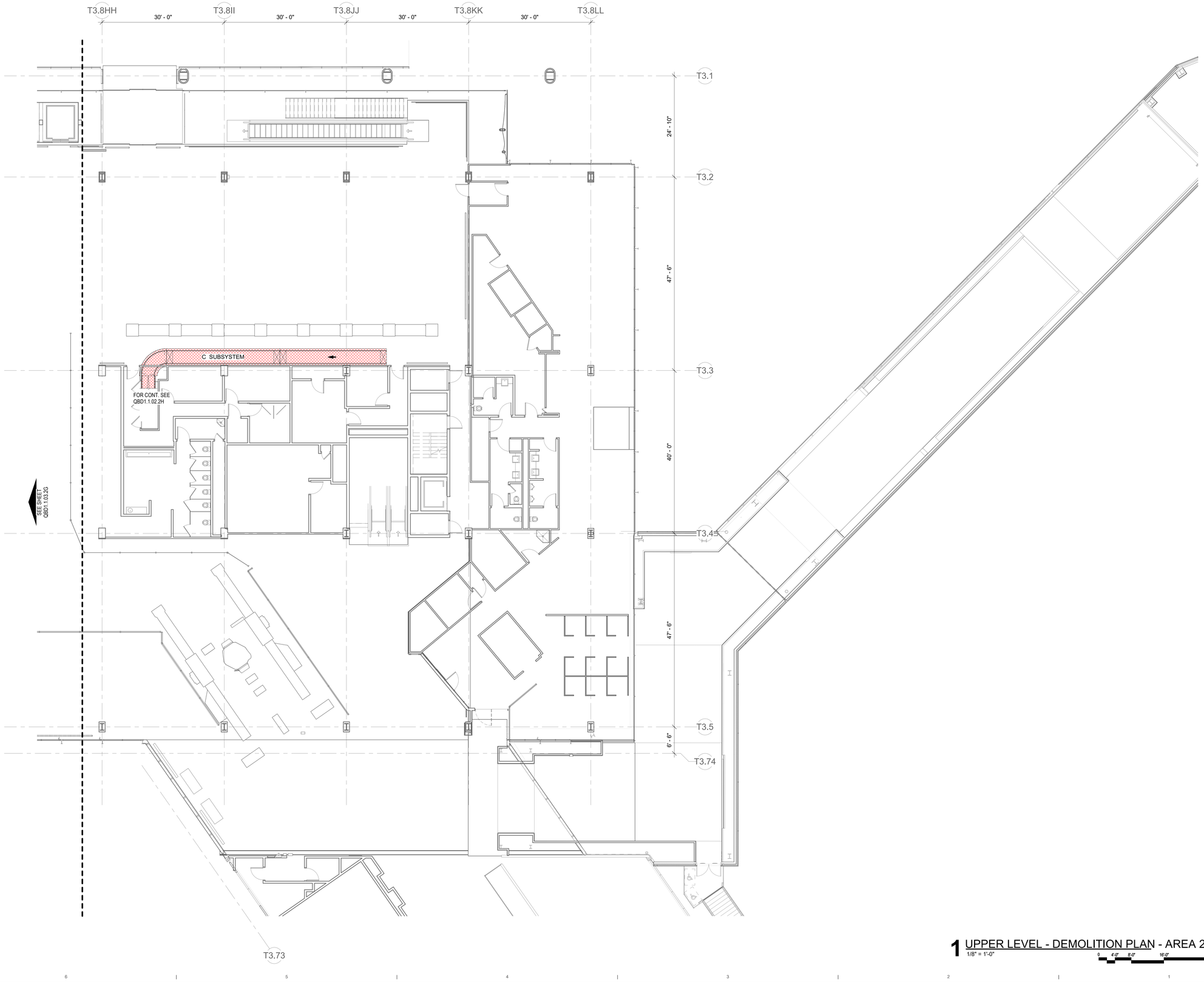

1 UPPER LEVEL - DEMOLITION PLAN - AREA 2H BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

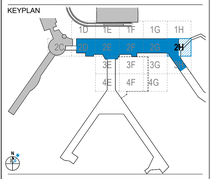
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



UPPER LEVEL - DEMOLITION PLAN - AREA 2H BHS

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1 BASEMENT ONE - OVERALL BHS
1/32" = 1'-0"

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KEYPLAN

BASEMENT ONE - OVERALL BHS PLAN

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SHEET NUMBER: **QB2.1.01**
VOLUME:

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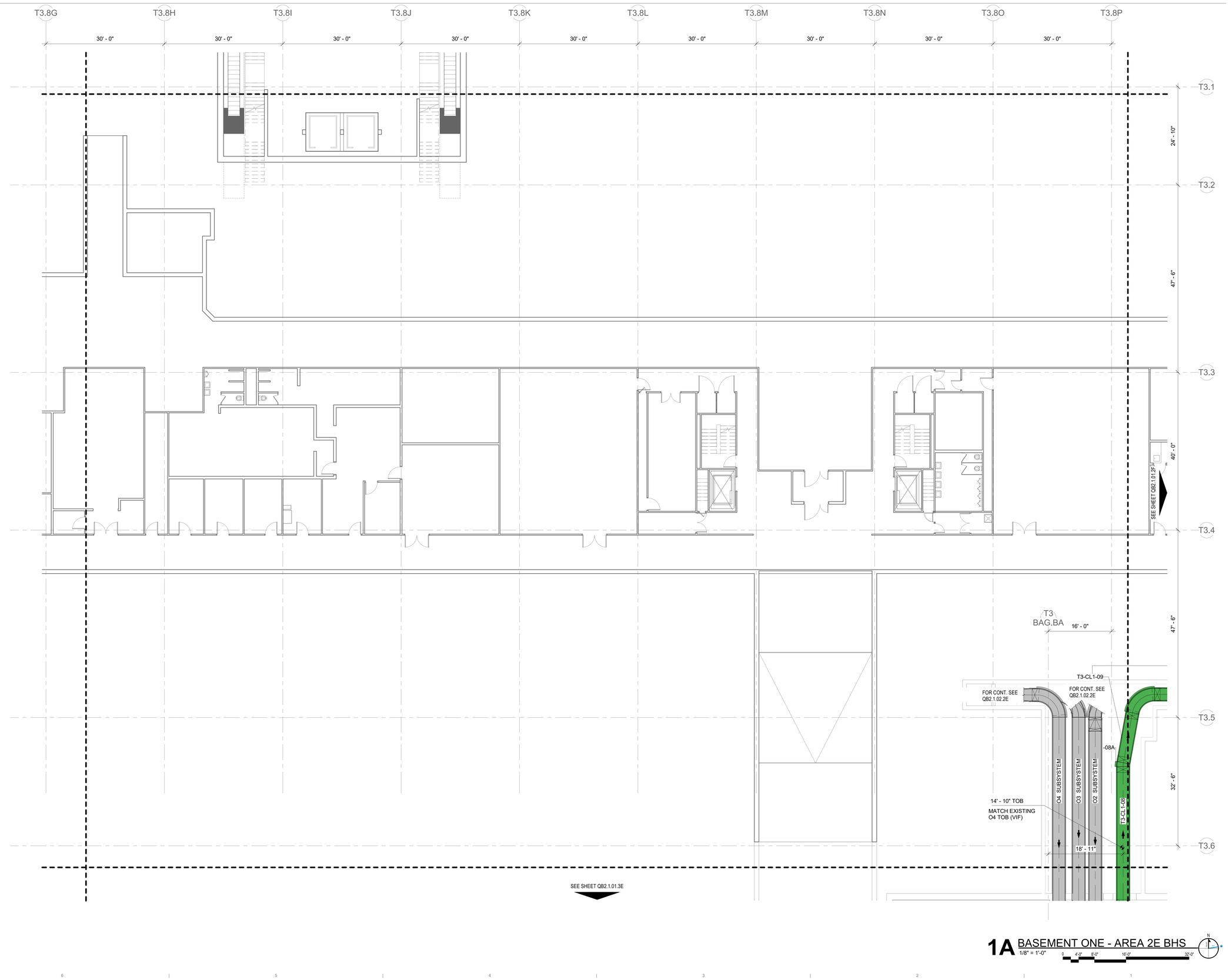
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A BASEMENT ONE - AREA 2E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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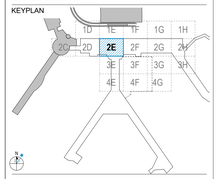

BASEMENT ONE PLAN - AREA 2E BHS

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SHEET NUMBER: **QB2.1.01.2E**
VOLUME:

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LEGEND

- CLEAR BAG SUBSYSTEMS
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- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
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- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A BASEMENT ONE - AREA 2F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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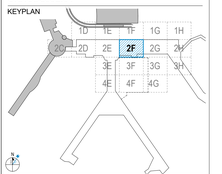

BASEMENT ONE PLAN - AREA 2F BHS

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SHEET NUMBER: **QB2.1.01.2F**
VOLUME:

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LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
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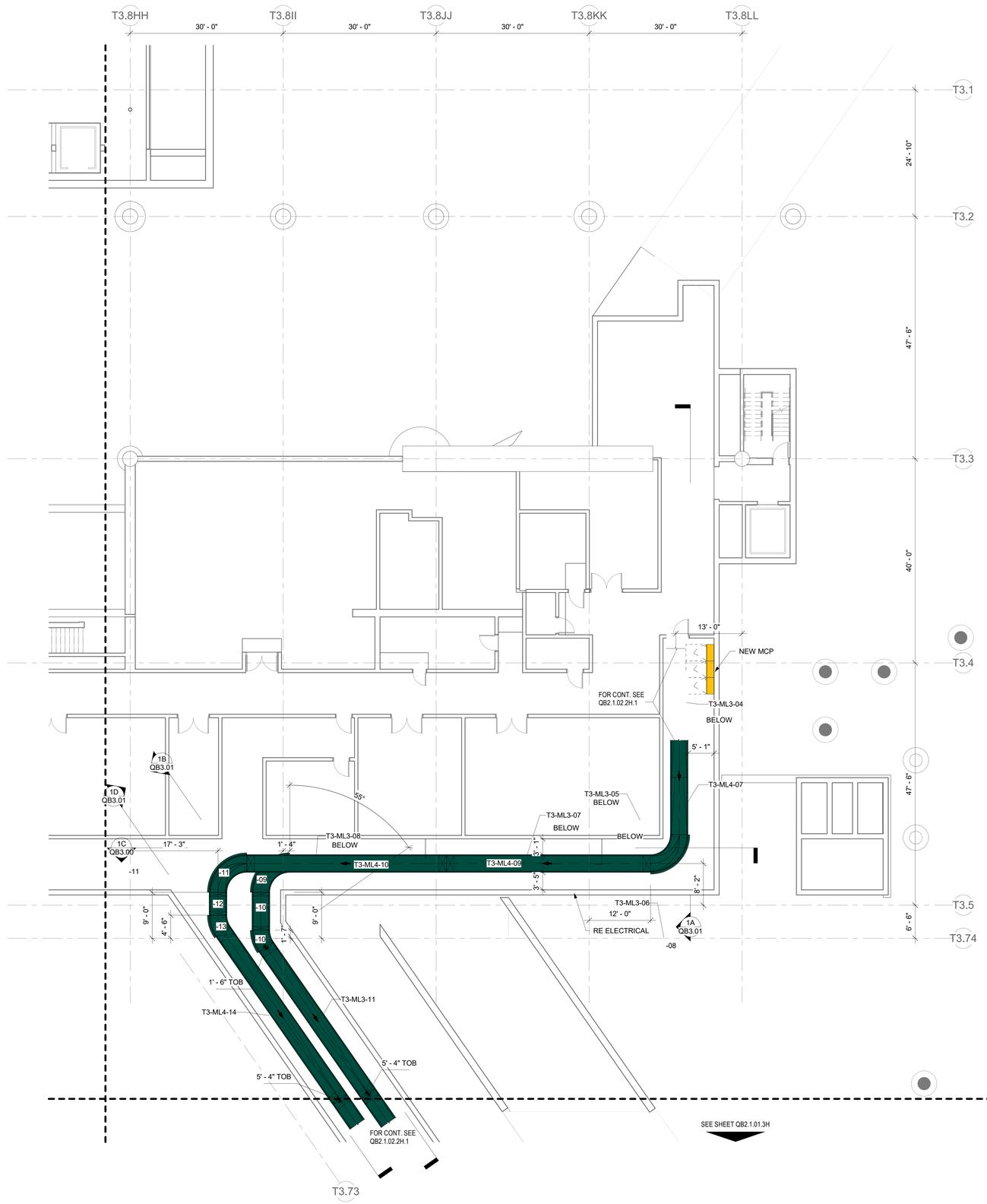
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



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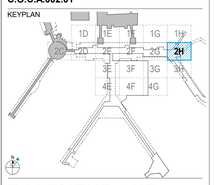

BASEMENT ONE PLAN - AREA 2H BHS

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SHEET NUMBER: **QB2.1.01.2H**
VOLUME:

1A BASEMENT ONE - AREA 2H BHS
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 10:58:18 AM

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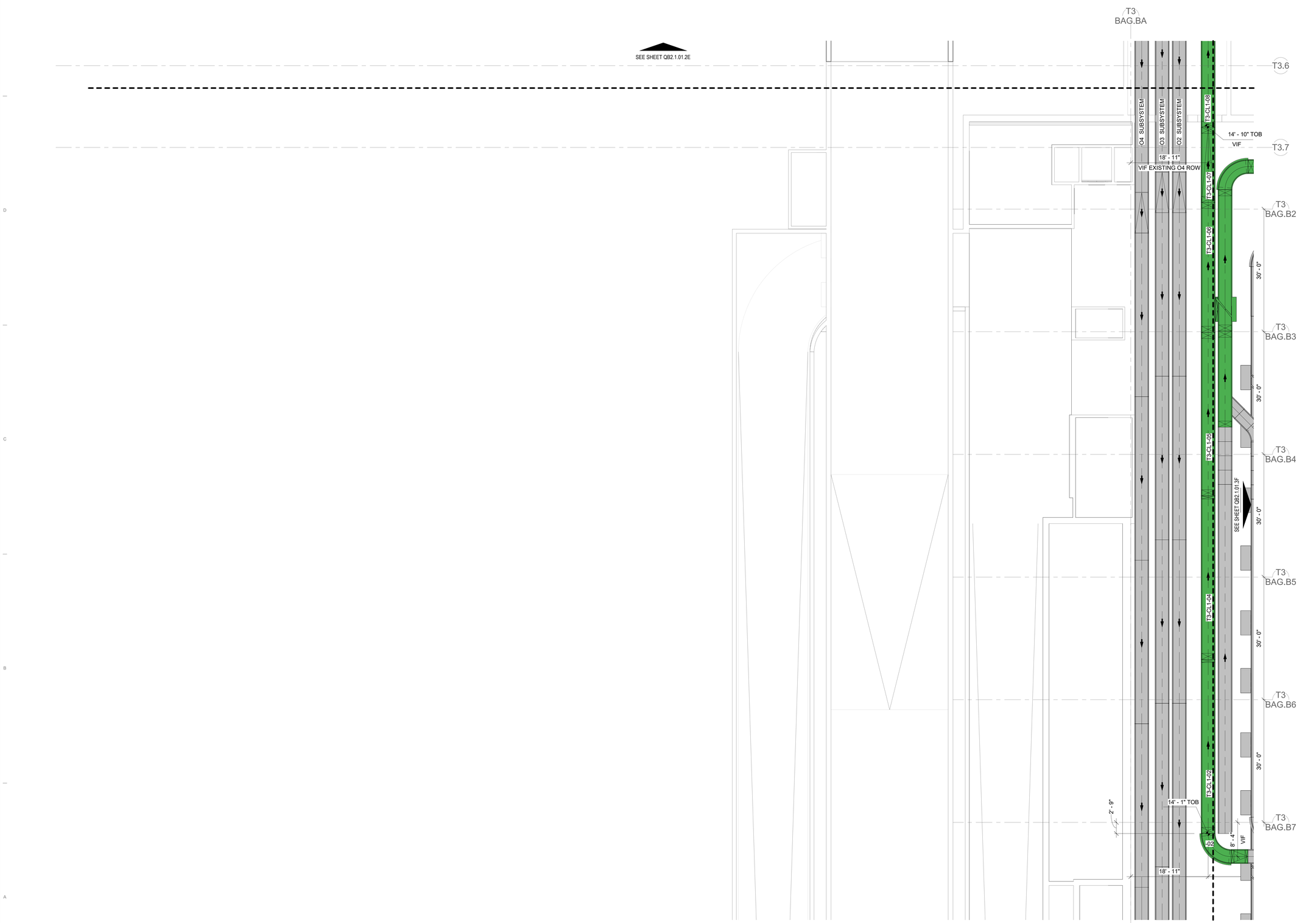
LEGEND

CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	



1A BASEMENT ONE - AREA 3E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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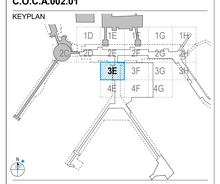

BASEMENT ONE PLAN - AREA 3E BHS

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SHEET NUMBER
QB2.1.01.3E
VOLUME:

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LEGEND

- CLEAR BAG SUBSYSTEMS
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- PDP/MCP
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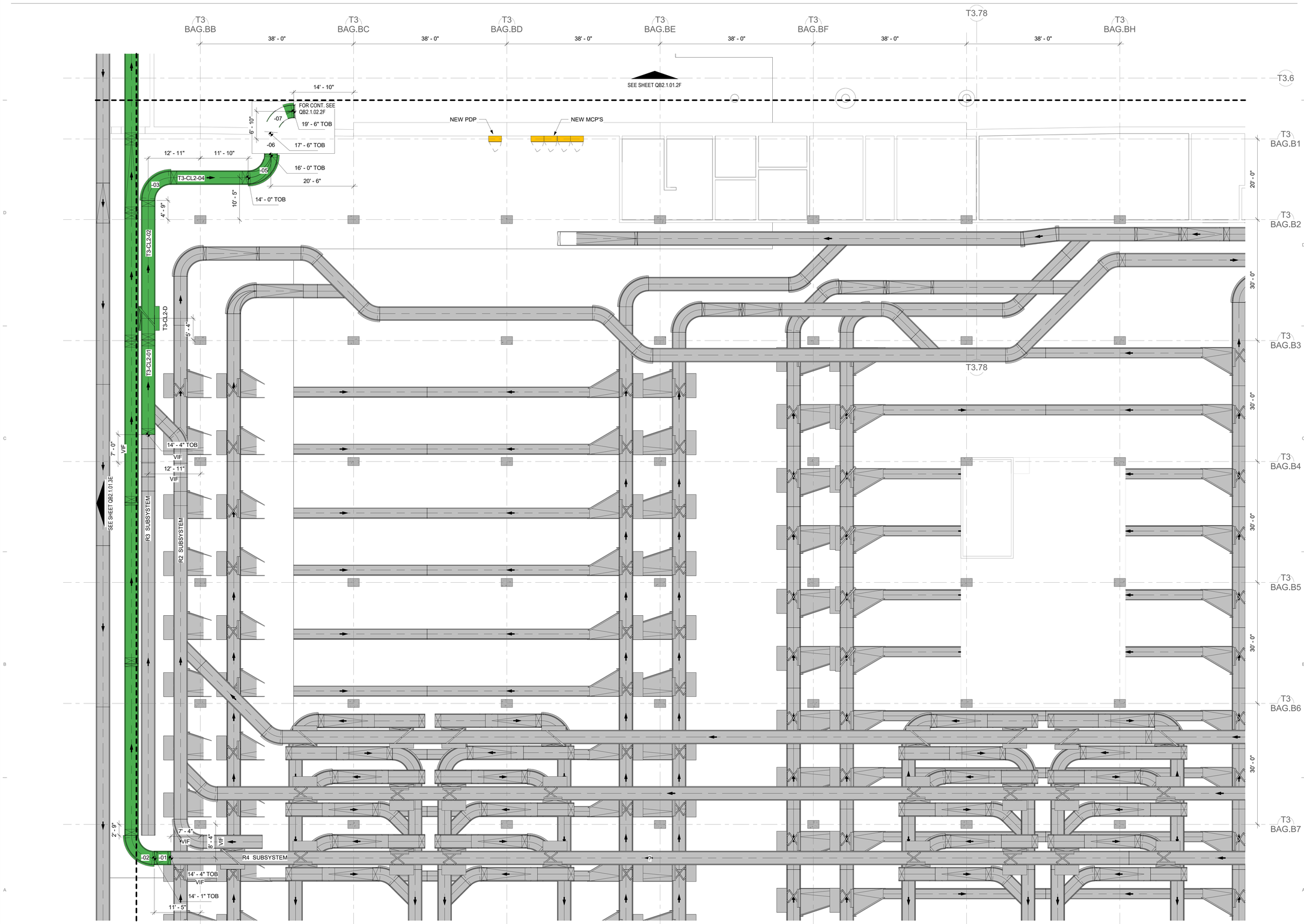

1A BASEMENT ONE - AREA 3F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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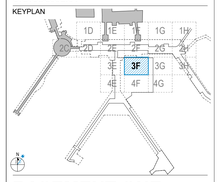

BASEMENT ONE PLAN - AREA 3F BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**

SHEET NUMBER: **QB2.1.01.3F**
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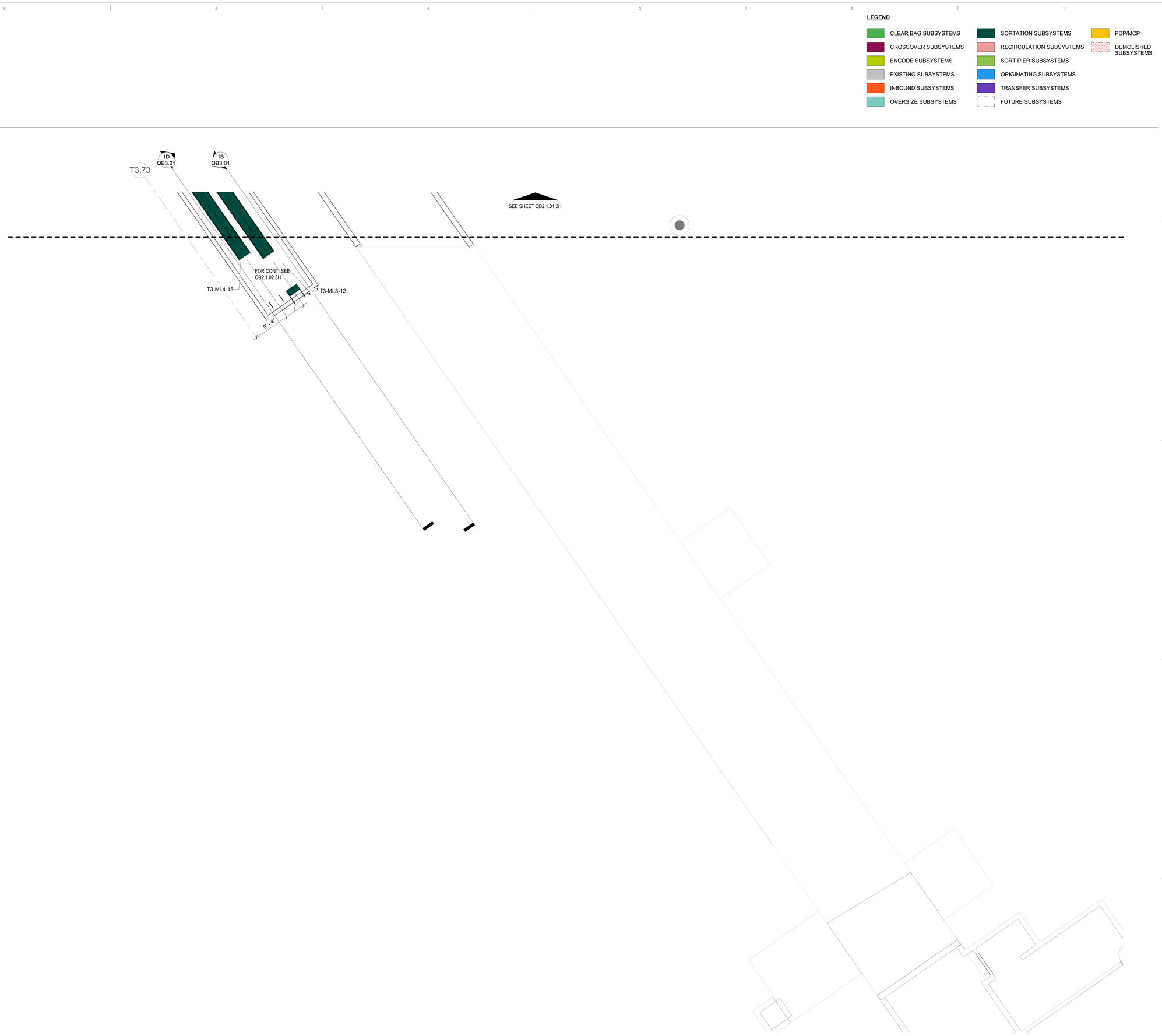

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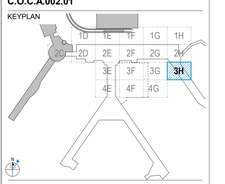

BASEMENT ONE PLAN - AREA 3H BHS

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VOLUME:

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- PDP/MCP
- DEMOLISHED SUBSYSTEMS

T3.8A T3.8B T3.8C T3.8D T3.8E T3.8F T3.8G T3.8H T3.8I T3.8J T3.8K T3.8L T3.8M T3.8N T3.8O T3.8P T3.8Q T3.8R T3.8S T3.8T T3.8U T3.8V T3.8W T3.8X T3.8Y T3.8Z T3.8AA T3.8BB T3.8CC T3.8DD T3.8EE T3.8FF T3.8GG T3.8HH T3.8II T3.8JJ T3.8KK T3.8LL

T3.8.11

RTN.6h

RTN.6i

T3.1

T3.2

T3.3

T3.4

T3.5

T3.74

UP

T3.6

T3

BAG.B1

1C
QB4.02

T3.73

L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19

LLL LJJ LKK

1 2 3

E F G H

1 LOWER LEVEL - OVERALL BHS
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

N

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KEYPLAN

LOWER LEVEL - OVERALL BHS PLAN

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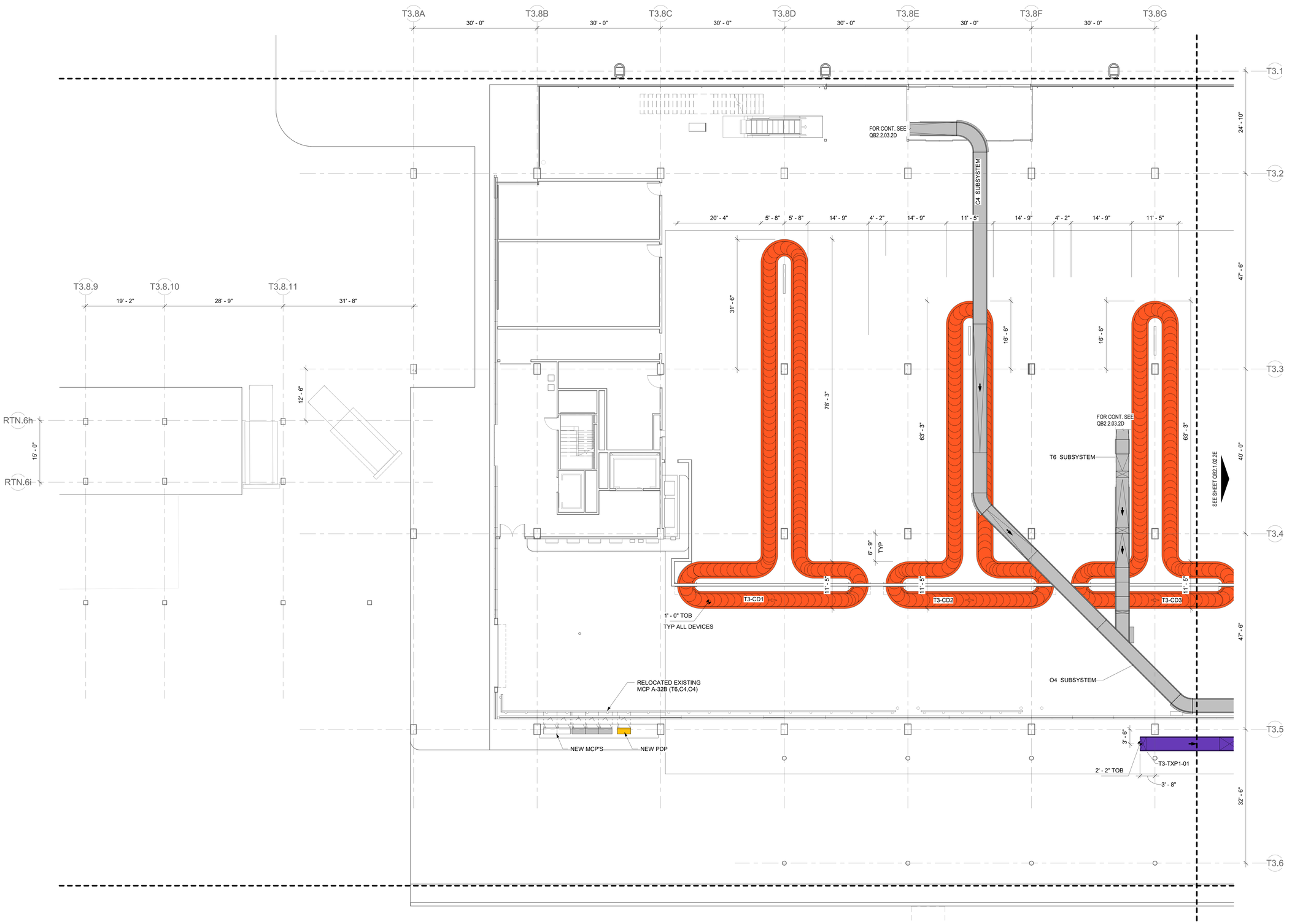

1A LOWER LEVEL - AREA 2D BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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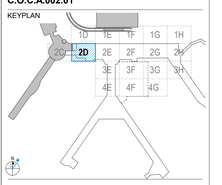

LOWER LEVEL PLAN - AREA 2D BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
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VOLUME:

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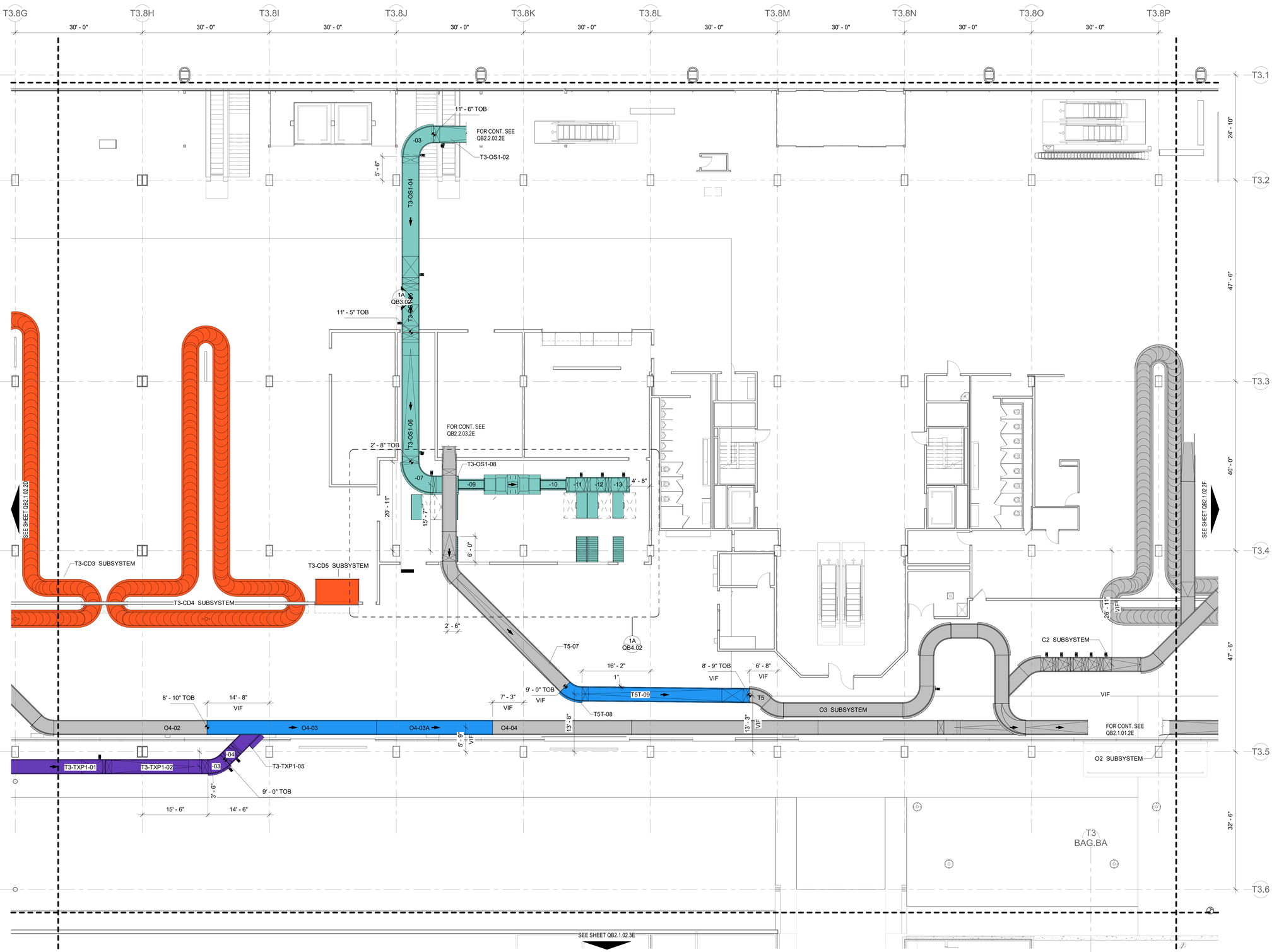

1A LOWER LEVEL - AREA 2E BHS
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REVISION

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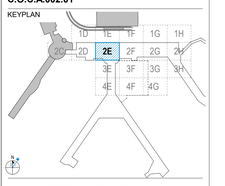
ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL PLAN - AREA 2E BHS

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SHEET NUMBER: **QB2.1.02.2E**
VOLUME:

3/20/2023 1:17:28 PM

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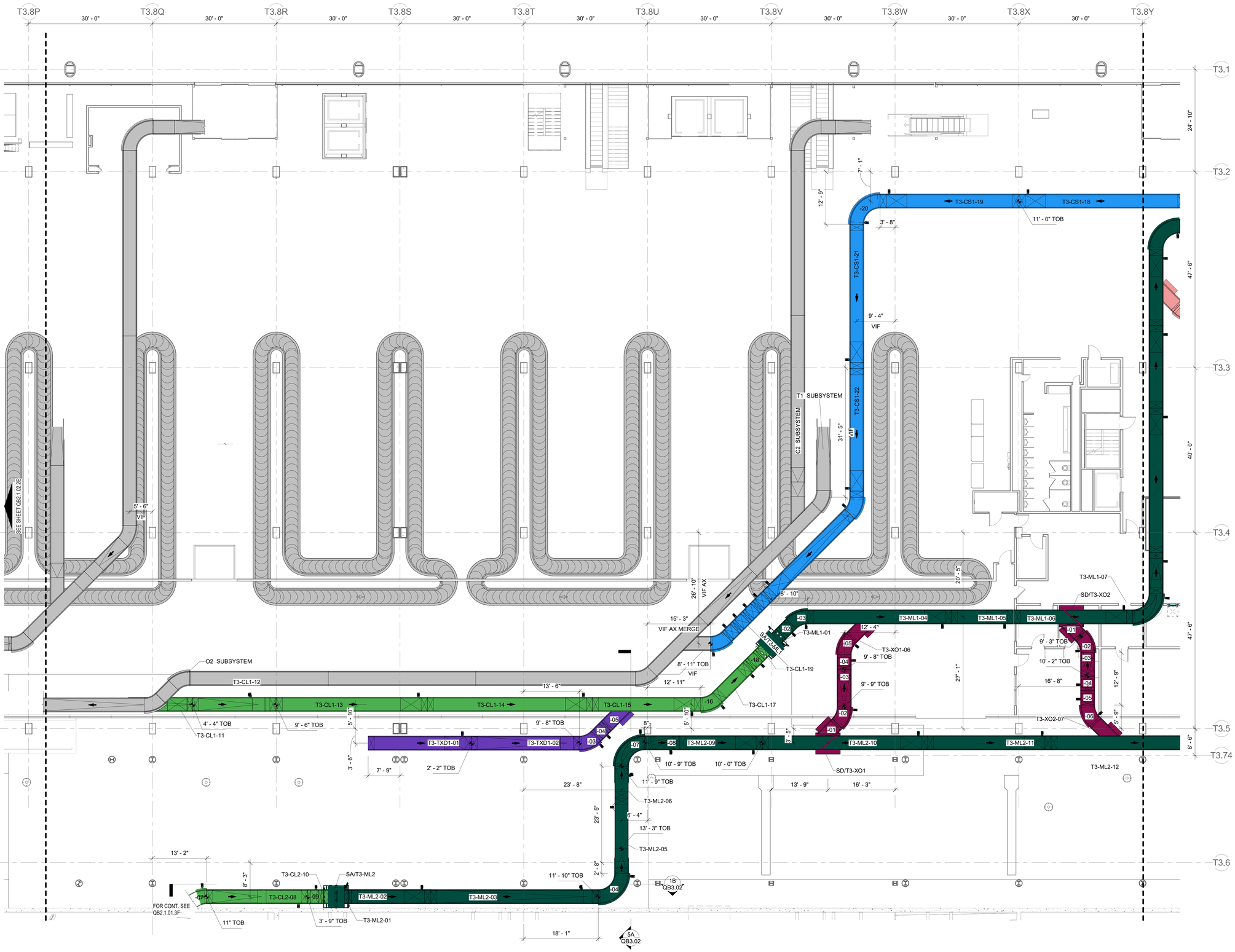
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A LOWER LEVEL - AREA 2F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
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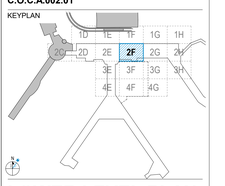
KEYPLAN



LOWER LEVEL PLAN - AREA 2F BHS

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1A LOWER LEVEL - AREA 2G - LOWER BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

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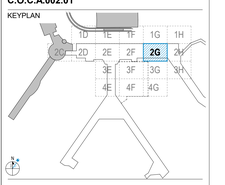

LOWER LEVEL PLAN - AREA 2G - LOWER BHS

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SHEET NUMBER: **QB2.1.02.2G.1**
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LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS

T3.8Y 30' - 0" T3.8Z 30' - 0" T3.8AA 30' - 0" T3.8BB 30' - 0" T3.8CC 30' - 0" T3.8DD 30' - 0" T3.8EE 30' - 0" T3.8FF 30' - 0" T3.8GG 30' - 0" T3.8HH

T3.1 T3.2 T3.3 T3.4 T3.5 T3.74 T3.6

24' - 10" 47' - 6" 40' - 0" 47' - 6" 6' - 6"

FOR CONT. SEE QB2.2.03.2G

1C QB3.02

T3-CS1-18 T3-CS1-17 T3-CS1-15 T3-CS1-14 T3-CS1-13 T3-CS1-12 T3-CS1-08 T3-CS1-07

T3-ML1-13 T3-ML1-14 T3-ML1-11 T3-ML1-10 T3-ML1-09 T3-ML1-18 T3-ML1-19 T3-ML1-20 T3-ML1-21 T3-ML1-22 T3-ML1-23

T3-RC1-15 T3-RC1-14 T3-RC1-13 T3-RC1-12 T3-RC1-11 T3-RC1-17 T3-RC1-21 T3-RC1-25 T3-RC1-09

T3-RC2-11 T3-RC2-10 T3-RC2-09 T3-RC2-08 T3-RC2-13 T3-RC2-14 T3-RC2-19 T3-RC2-06 T3-RC2-04 T3-RC2-03

T3-ML2-17 T3-ML2-18 T3-ML2-19 T3-ML2-20 T3-ML2-21 T3-ML2-22 T3-ML2-23 T3-ML2-24 T3-ML2-13 T3-ML2-15 T3-ML2-12

T3-ME2-02 T3-ME2-13 T3-ME2-15 T3-ME2-19 T3-ME1-10 T3-ME1-07

T3-TC2-13 T3-TC2-07 T3-TC2-05 T3-TC1-04

T3-XO4-08 T3-XO4-01 SD/T3-XO4

SD/T3-SP1 SD/T3-SP2 SD/T3-SP3 SD/T3-SP4 SD/T3-SP5 SD/T3-SP6 SD/T3-SP7 SD/T3-SP8 SD/T3-SP9 SD/T3-SP10 SD/T3-SP11 SD/T3-SP12 SD/T3-SP13 SD/T3-ME1 SD/T3-ME2

UP

RE ARCH FOR MEC DETAILS

5A QB4.01

NOTE: AREA 2G SPLIT FOR DRAWING CLARITY. RE QB2.1.02.2G.1 U.N.O TYP

FOR CONT. SEE QB2.1.02.2G.1

SEE SHEET QB2.1.02.2F

SEE SHEET QB2.1.02.2H.1

T3 BAG.BI T3 BAG.BJ

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1A LOWER LEVEL - AREA 2G - UPPER BHS
1/8" = 1'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
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Irving, TX 75063

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NO.	DATE	DESCRIPTION

ISSUANCE
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PACKAGE ISSUE DATE
03/24/2023

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KEYPLAN

LOWER LEVEL PLAN - AREA 2G - UPPER BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**

SHEET NUMBER
QB2.1.02.2G.2

VOLUME:

LEGEND

- CLEAR BAG SUBSYSTEMS
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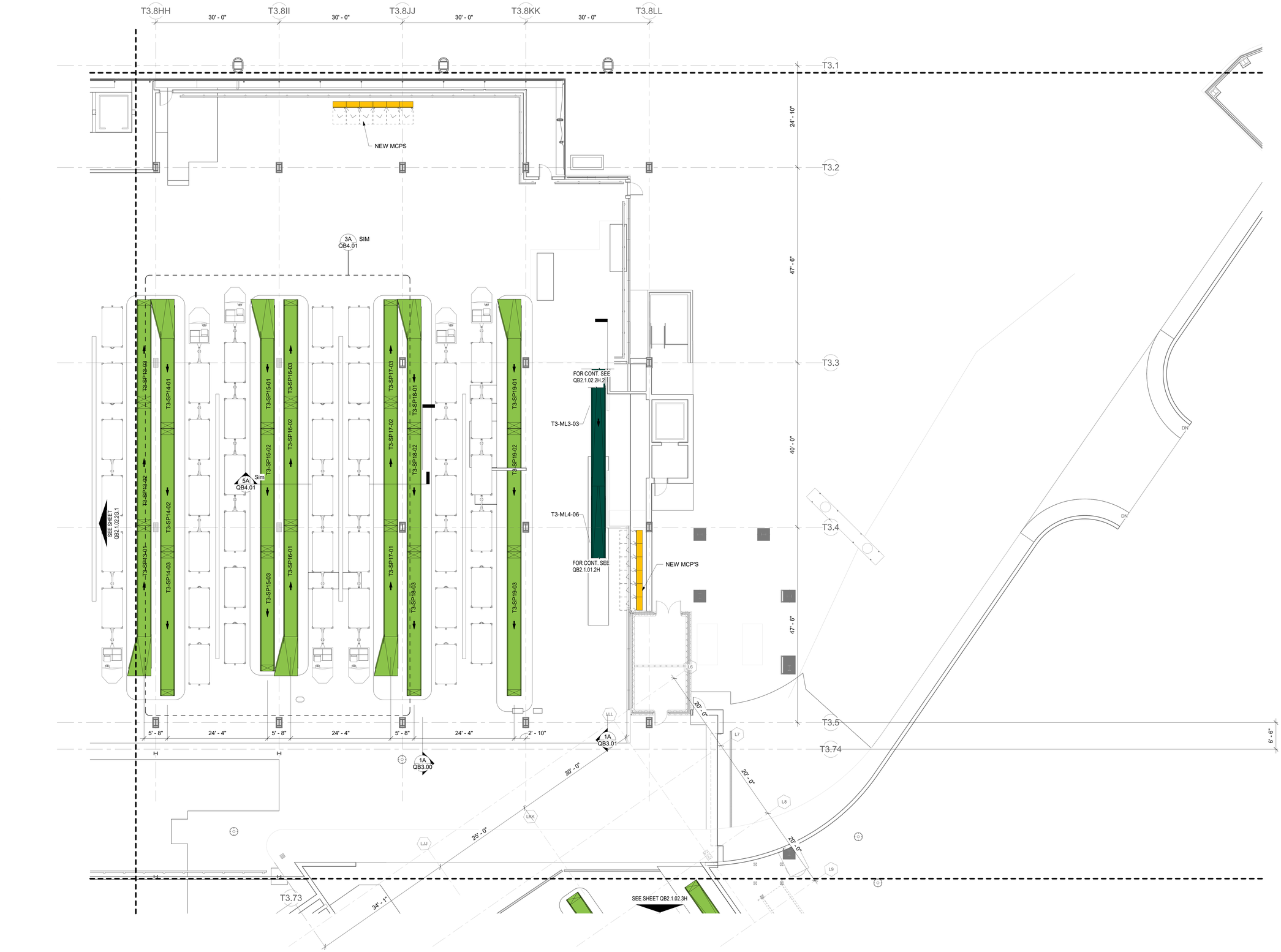
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A LOWER LEVEL - AREA 2H - LOWER BHS
1/8" = 1'-0"

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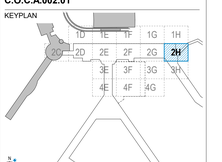

LOWER LEVEL PLAN - AREA 2H - LOWER BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER: **QB2.1.02.2H.1** VOLUME:

LEGEND

- CLEAR BAG SUBSYSTEMS
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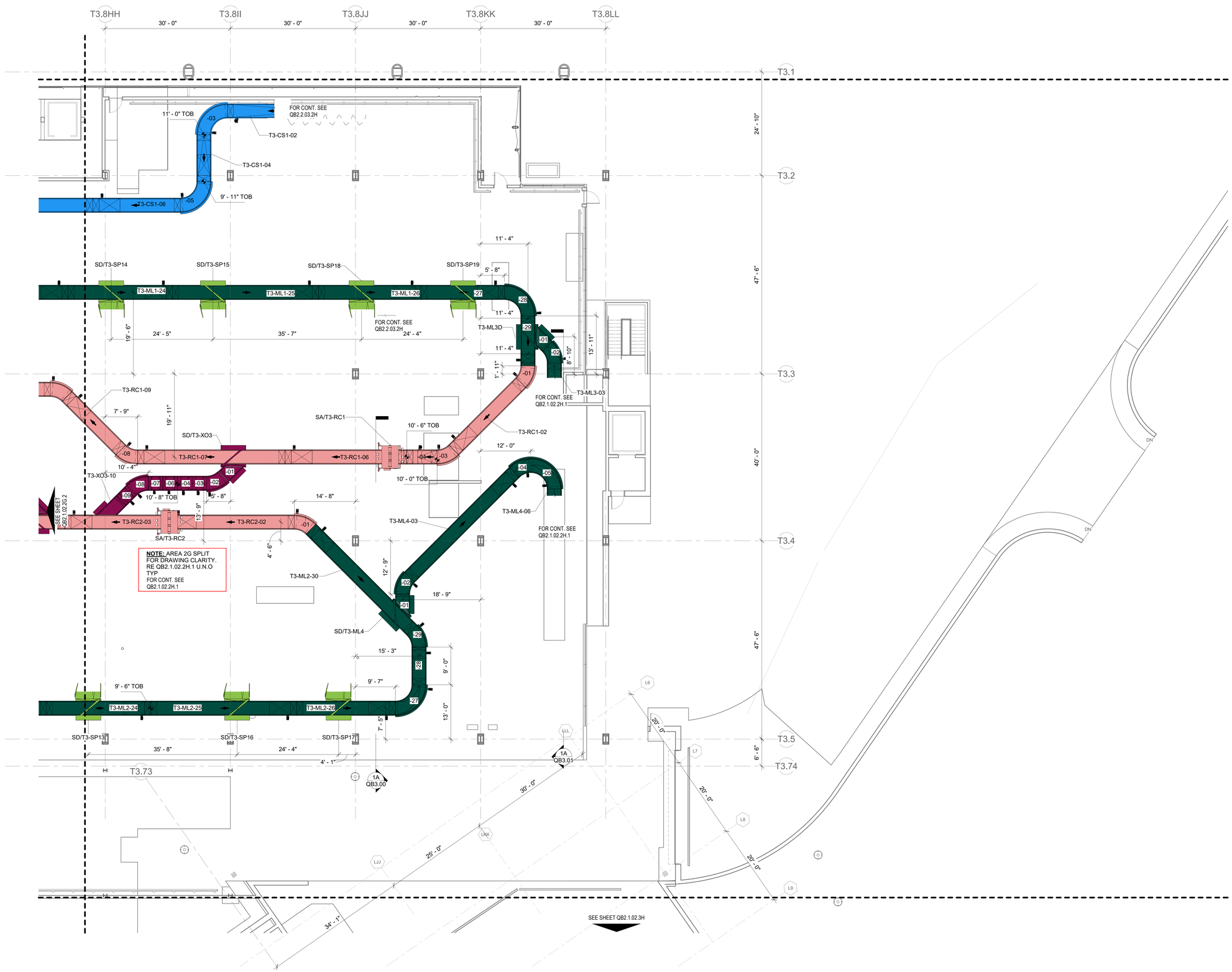

NOTE: AREA 2G SPLIT FOR DRAWING CLARITY. RE QB2.1.02.2H.1 U.N.O TYP
FOR CONT. SEE QB2.1.02.2H.1

1A LOWER LEVEL - AREA 2H - UPPER BHS

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAWN BY: DS,SK,JG CHECKED BY: AM

SHEET NUMBER QB2.1.02.2H.2

VOLUME:

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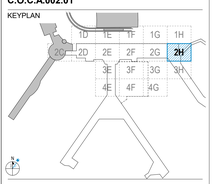
KEYPLAN



LOWER LEVEL PLAN - AREA 2H - UPPER BHS

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LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS

SEE SHEET QB2.1.02.2E

T3 BAG.BA

T3.6

T3 BAG.B1

T3.7

T3 BAG.B2

T3 BAG.B3

T3 BAG.B4

T3 BAG.B5

T3 BAG.B6

T3 BAG.B7

15' - 1"

20' - 0"

30' - 0"

30' - 0"

30' - 0"

30' - 0"

30' - 0"

HX1 SUBSYSTEM

HX2 SUBSYSTEM

1A LOWER LEVEL - AREA 3E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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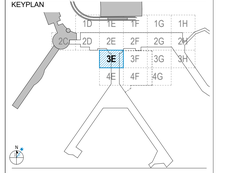

LOWER LEVEL PLAN - AREA 3E BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER
QB2.1.02.3E
VOLUME:

LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
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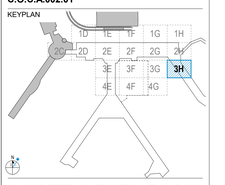

LOWER LEVEL PLAN - AREA 3H BHS

1A LOWER LEVEL - AREA 3H BHS
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0" 32'-0"

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LEGEND

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- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
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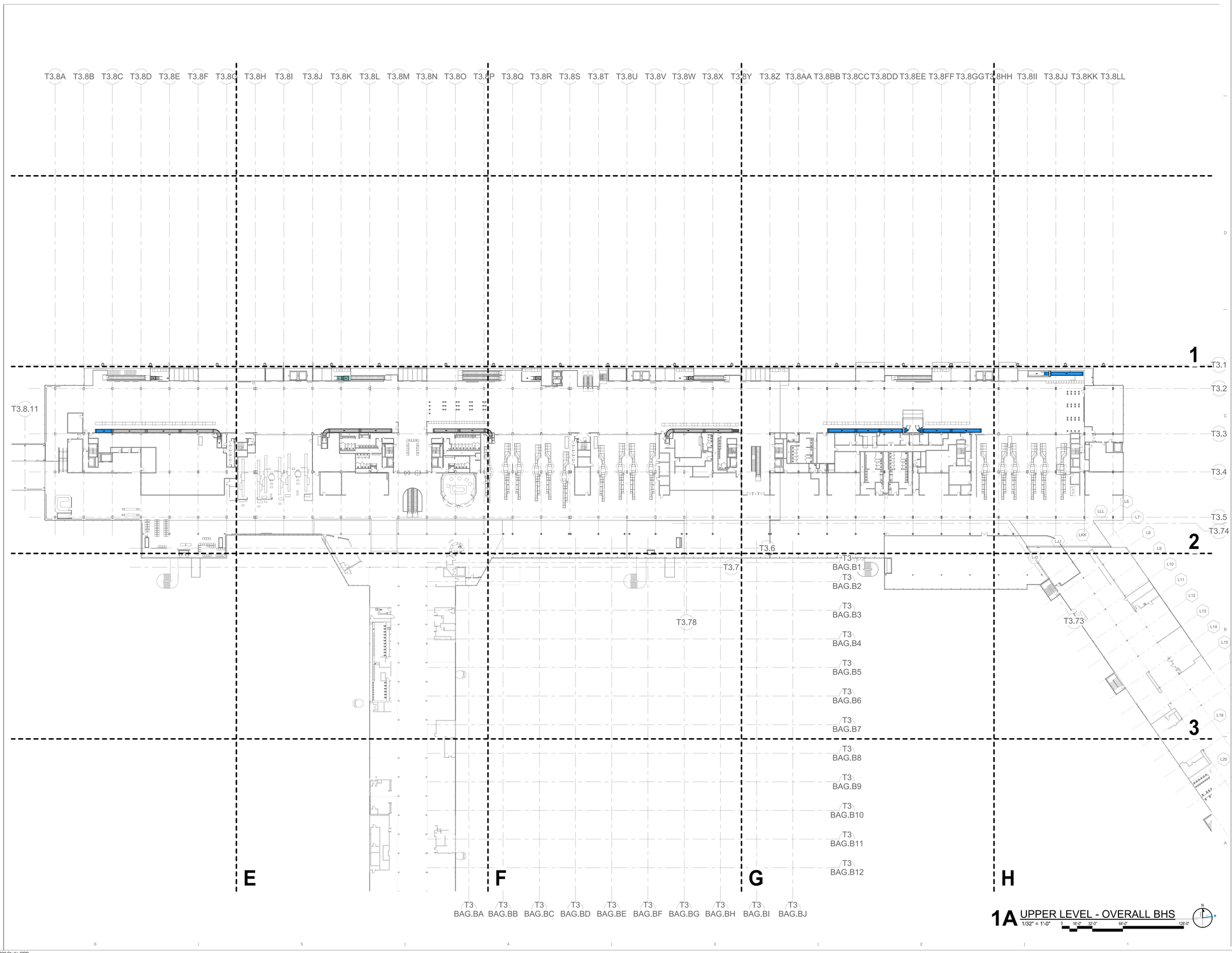

1A UPPER LEVEL - OVERALL BHS
1/32" = 1'-0"
0 16'-0" 32'-0" 64'-0" 128'-0"

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CDA Chicago Department of Aviation

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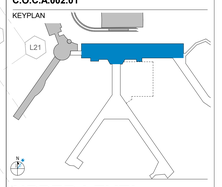

UPPER LEVEL - OVERALL BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **Checker**

SHEET NUMBER
QB2.2.03

VOLUME:

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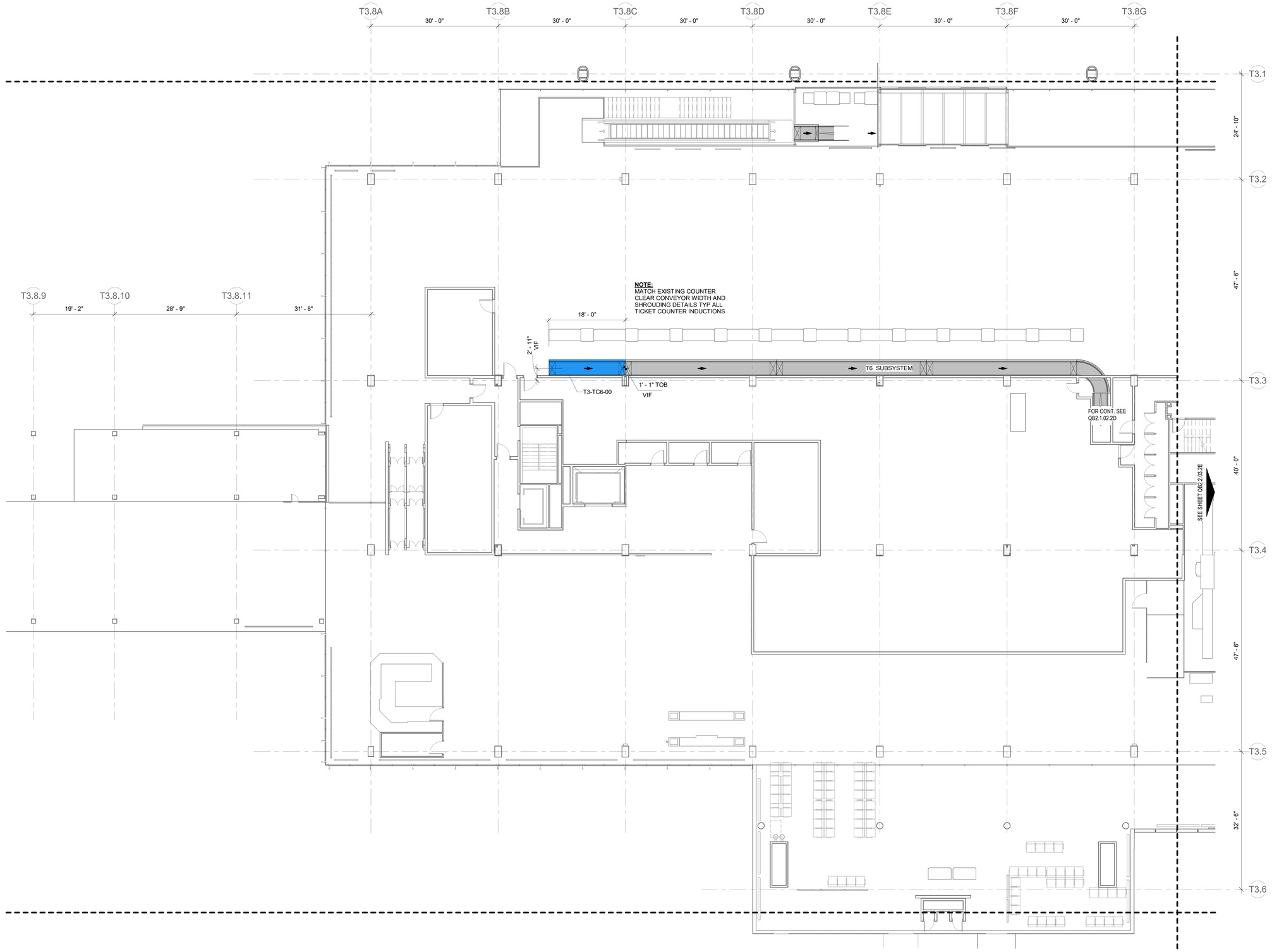
LEGEND

CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	



1A UPPER LEVEL - AREA 2D BHS
1/8" = 1'-0"

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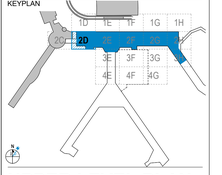

UPPER LEVEL PLAN - AREA 2D BHS

DRAWN BY: **DS,SK,JG** CHECKED BY: **Checker**
SHEET NUMBER
QB2.2.03.2D
VOLUME:

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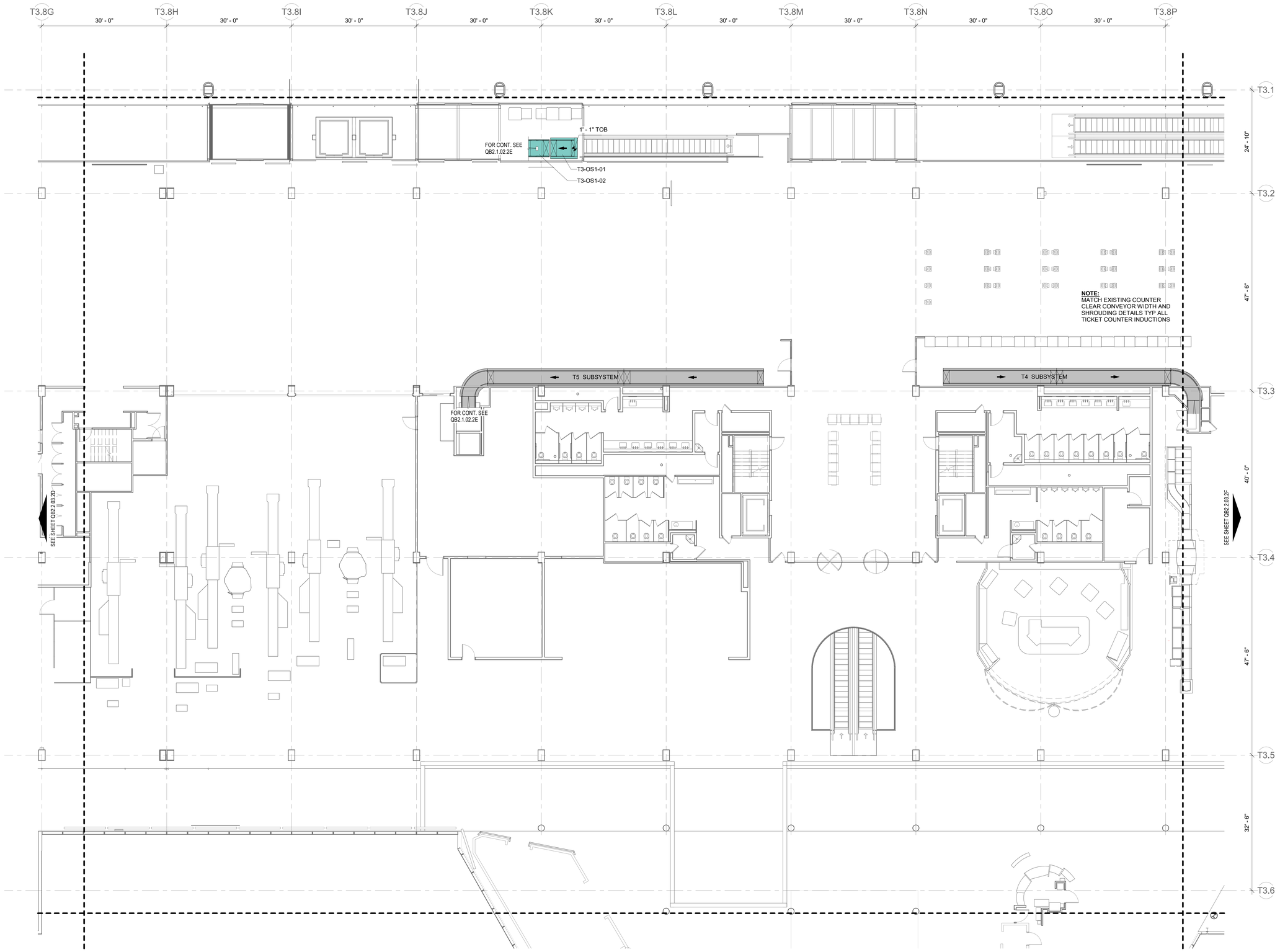
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A UPPER LEVEL - AREA 2E BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

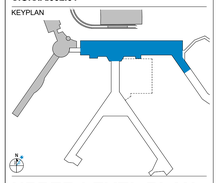
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



UPPER LEVEL PLAN - AREA 2E BHS

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SHEET NUMBER VOLUME:

QB2.2.03.2E

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LEGEND

- CLEAR BAG SUBSYSTEMS
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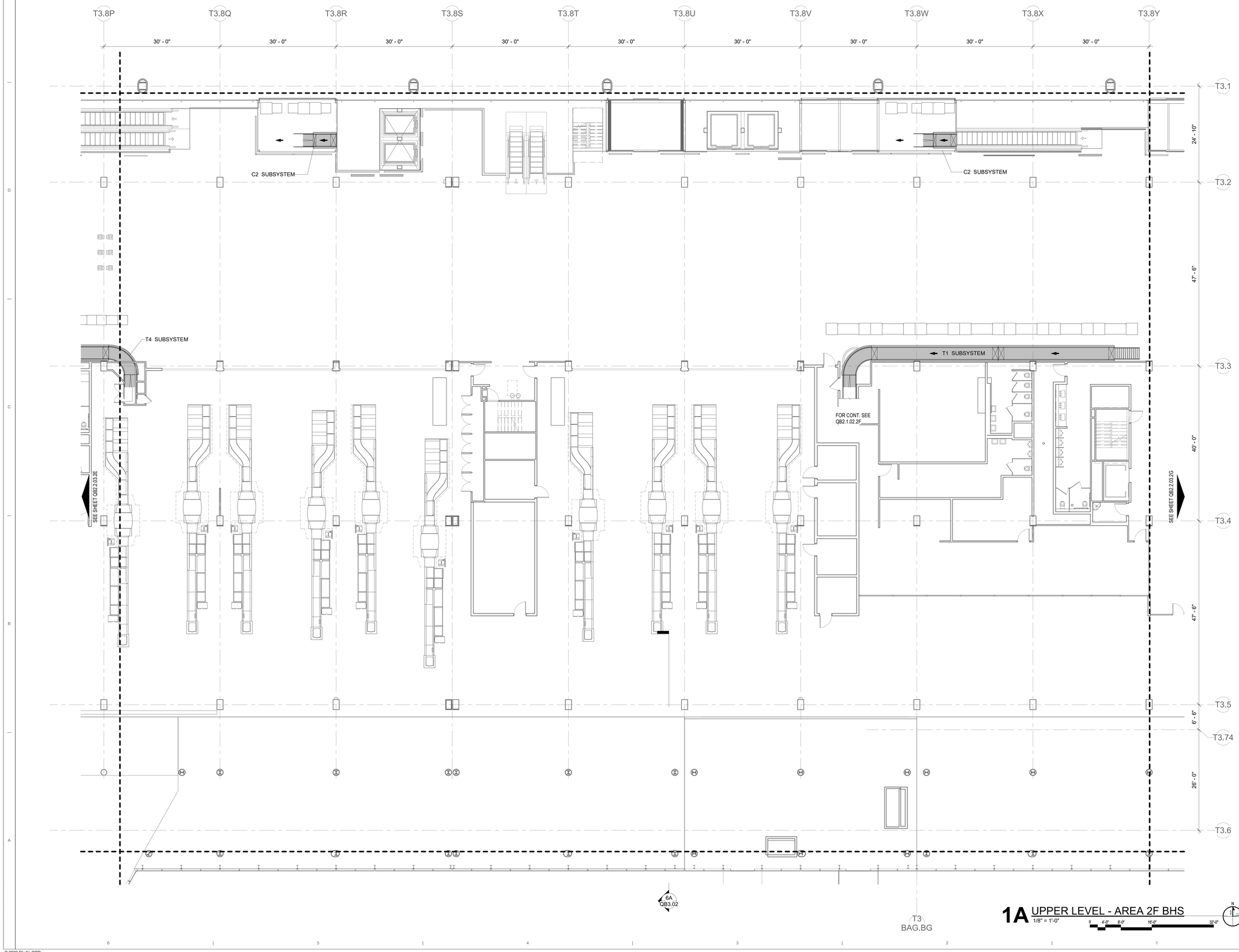
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A UPPER LEVEL - AREA 2F BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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Chicago Department of Aviation

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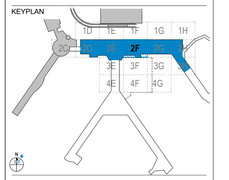
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



UPPER LEVEL PLAN - AREA 2F BHS

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SHEET NUMBER: **QB2.2.03.2F** VOLUME:

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LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
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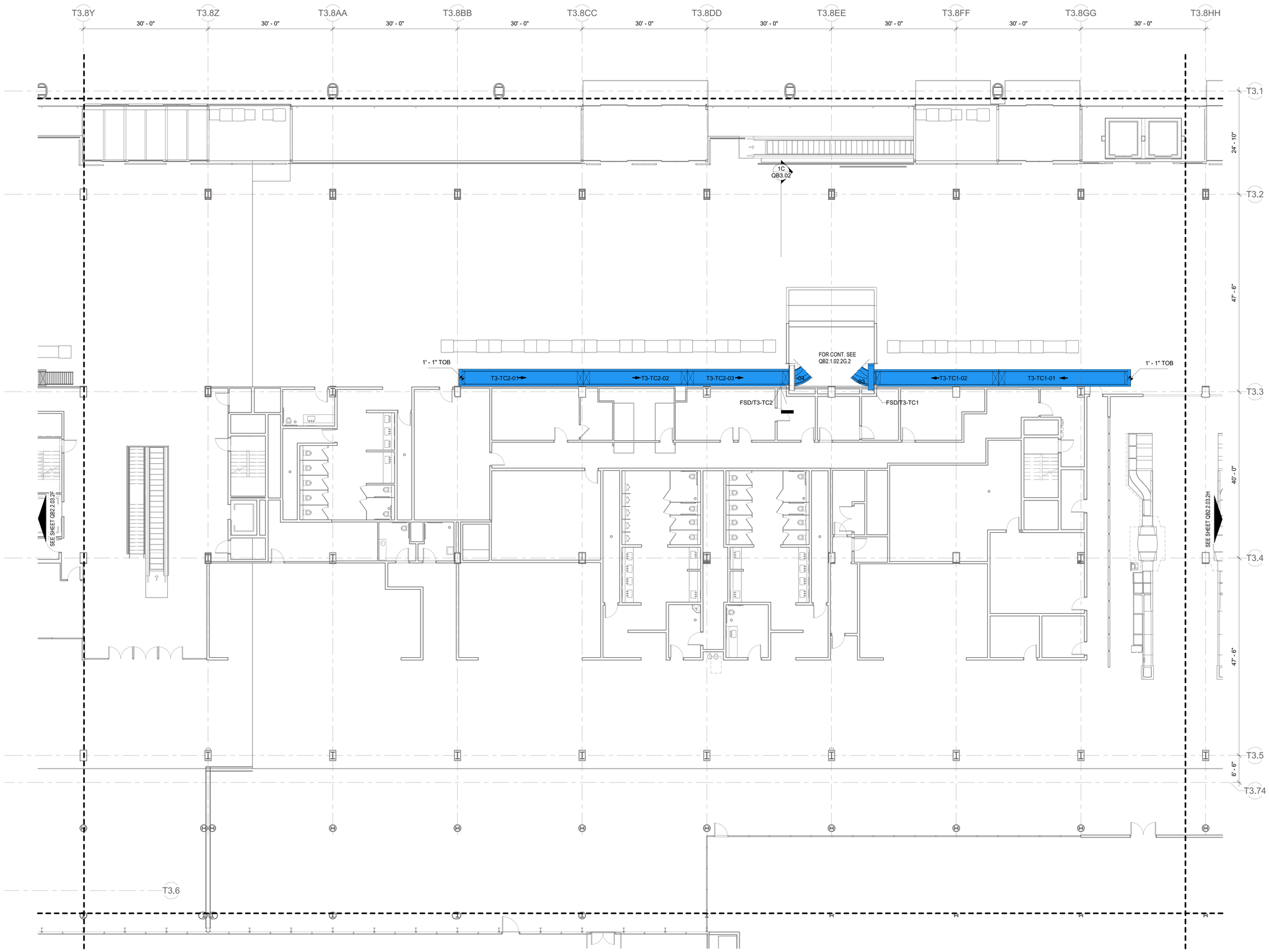
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A UPPER LEVEL - AREA 2G BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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Chicago Department of Aviation

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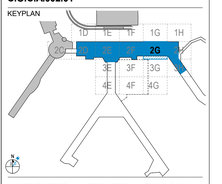
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



UPPER LEVEL PLAN - AREA 2G BHS

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SHEET NUMBER — VOLUME:
QB2.2.03.2G

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LEGEND

- CLEAR BAG SUBSYSTEMS
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- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
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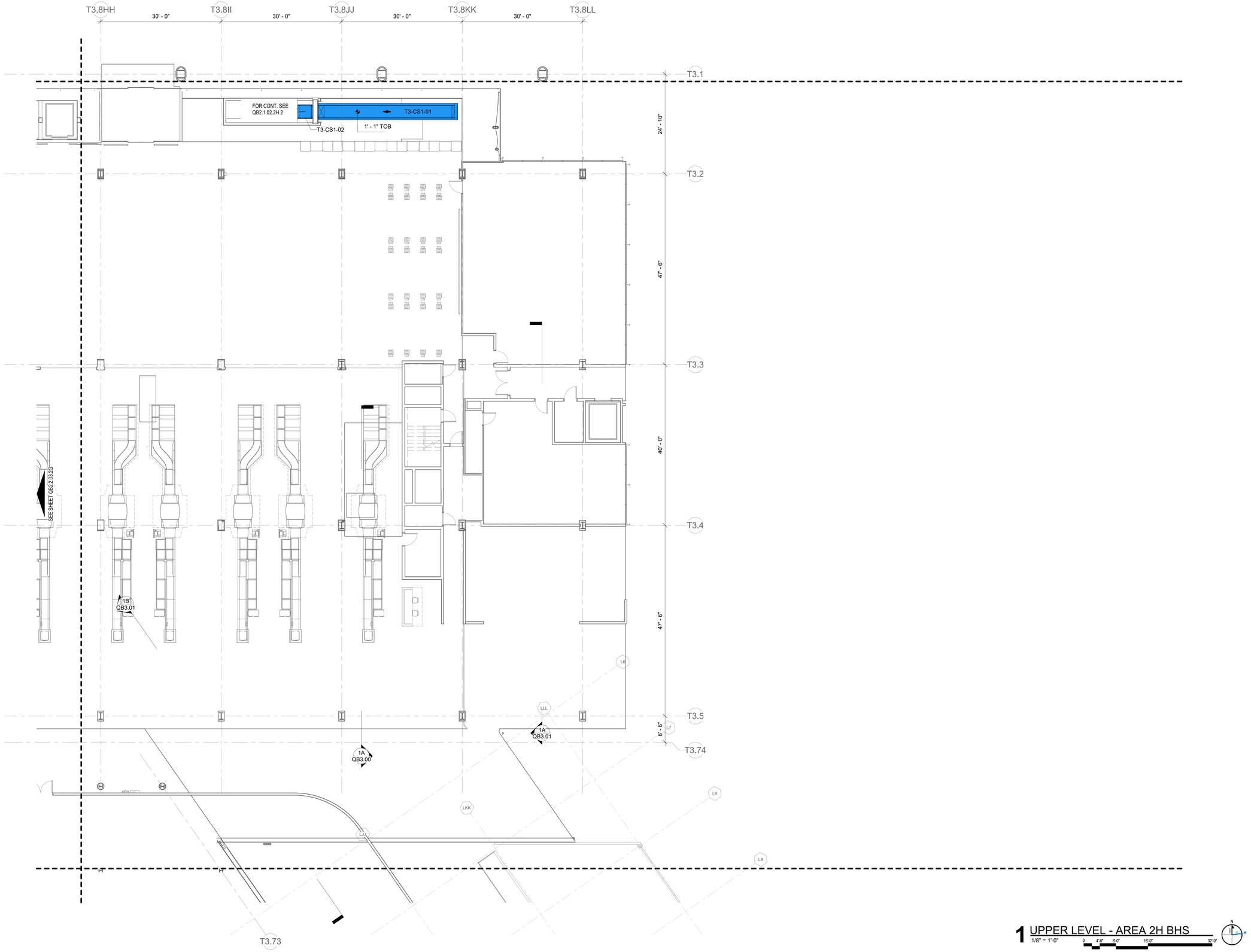
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1 UPPER LEVEL - AREA 2H BHS
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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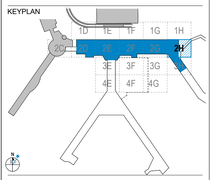

UPPER LEVEL PLAN - AREA 2H BHS

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LEGEND

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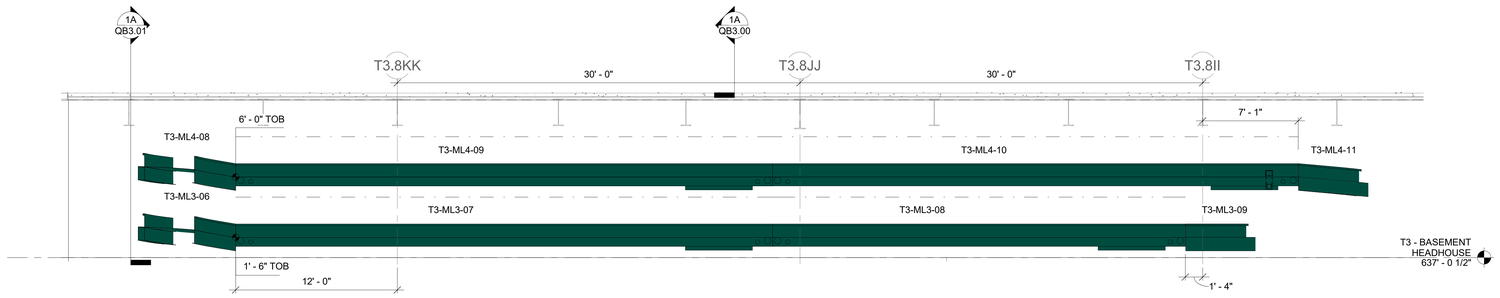
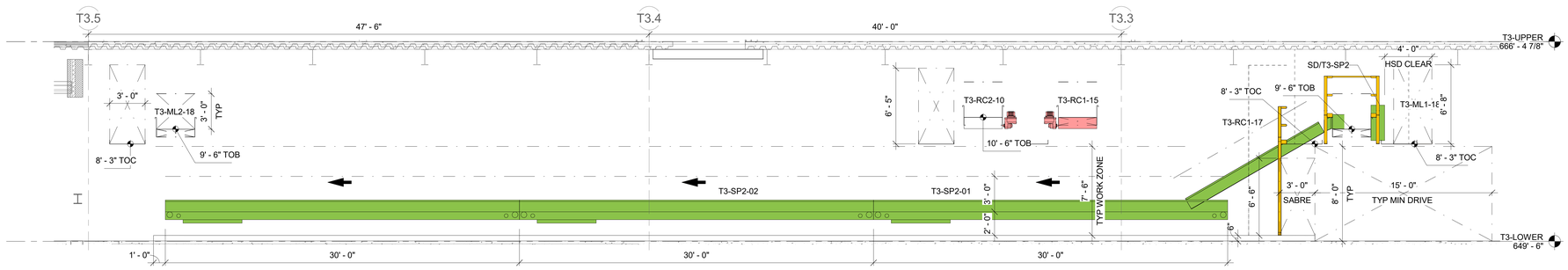
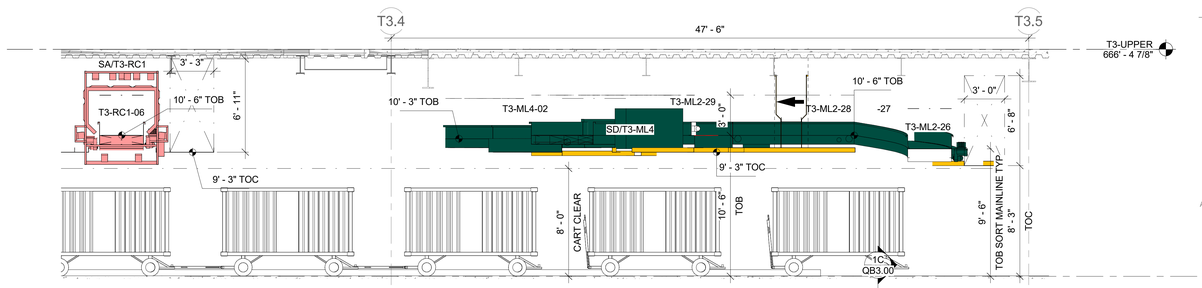


1C SECTIONS - ML3 ML4 DOUBLE STACK
1/4" = 1'-0"



1B SECTIONS - SORT PIER
1/4" = 1'-0"



1A SECTIONS - T3-ML2-28 ATR
1/4" = 1'-0"

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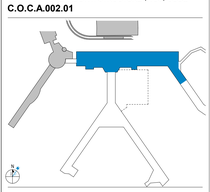

SECTIONS

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SHEET NUMBER
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VOLUME:

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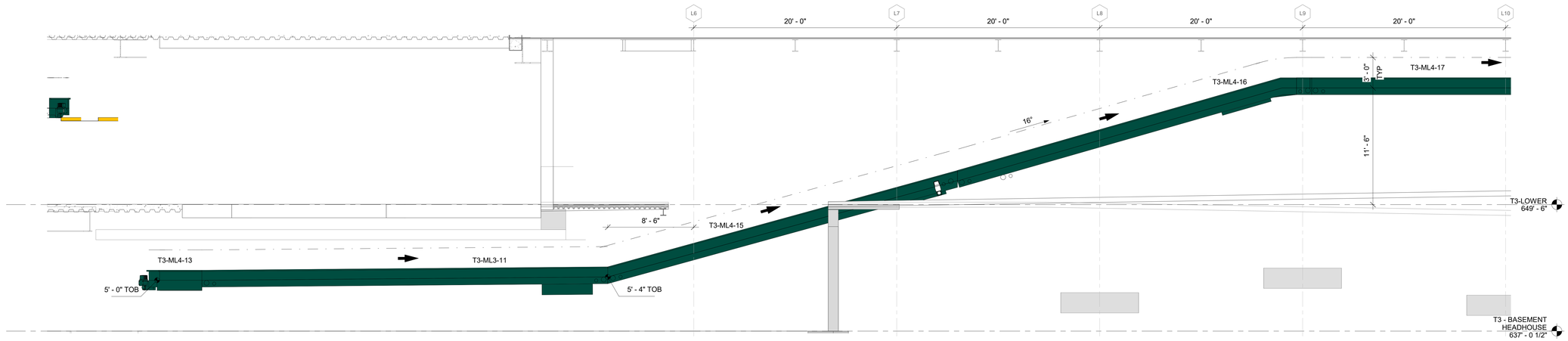
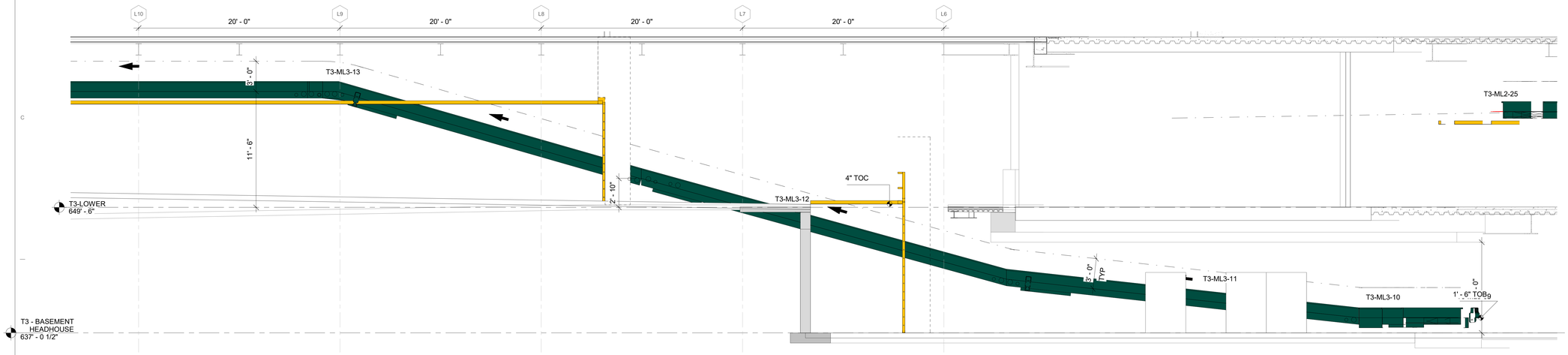
LEGEND

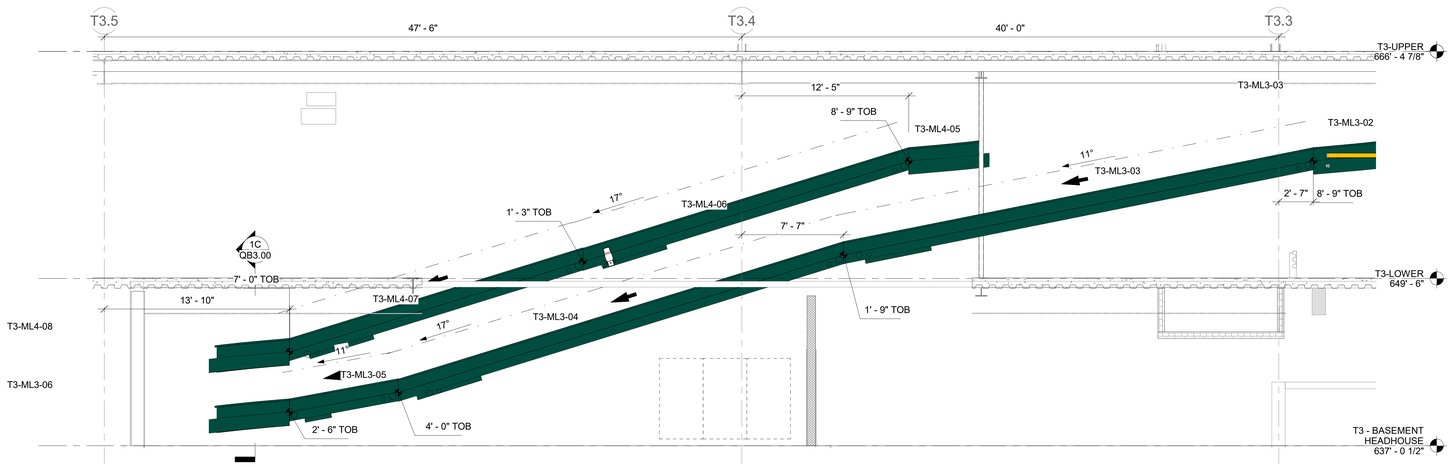
CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	



1D SECTIONS - ML3
1/4" = 1'-0"



1B SECTIONS - ML4
1/4" = 1'-0"



1A SECTIONS - ML3 ML4 BASEMENT PENETRATION
1/4" = 1'-0"

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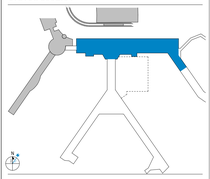

SECTIONS

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VOLUME:

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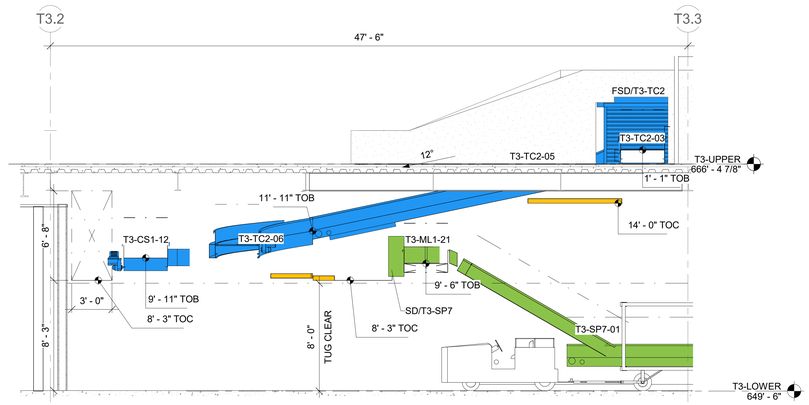
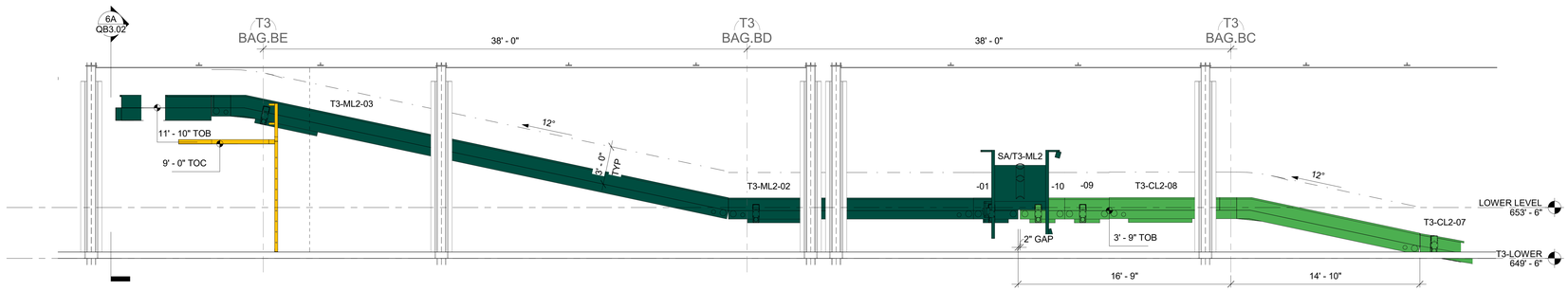
LEGEND

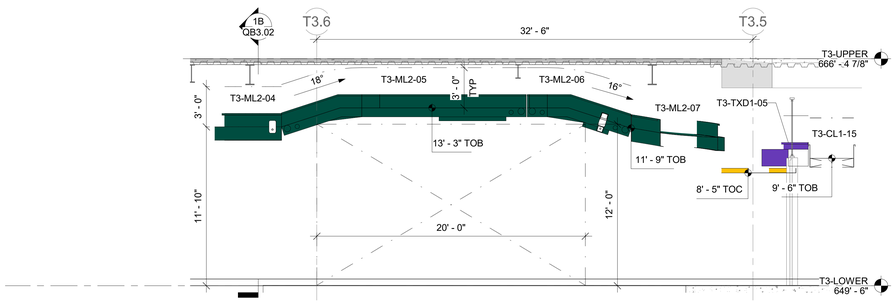
CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	



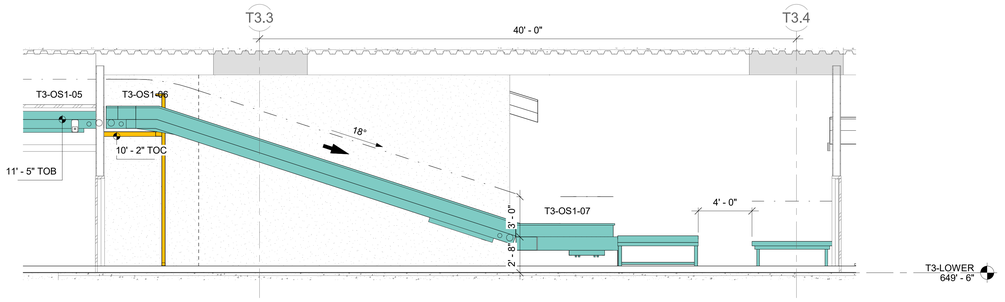
1C SECTIONS - T3-TC2
1/4" = 1'-0"



1B SECTIONS - ML2 SLAB PENETRATION
1/4" = 1'-0"



6A SECTIONS - ML2 VSR CROSSING
1/4" = 1'-0"



1A SECTIONS - OVERSIZE DECLINE
1/4" = 1'-0"

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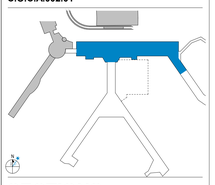

SECTIONS

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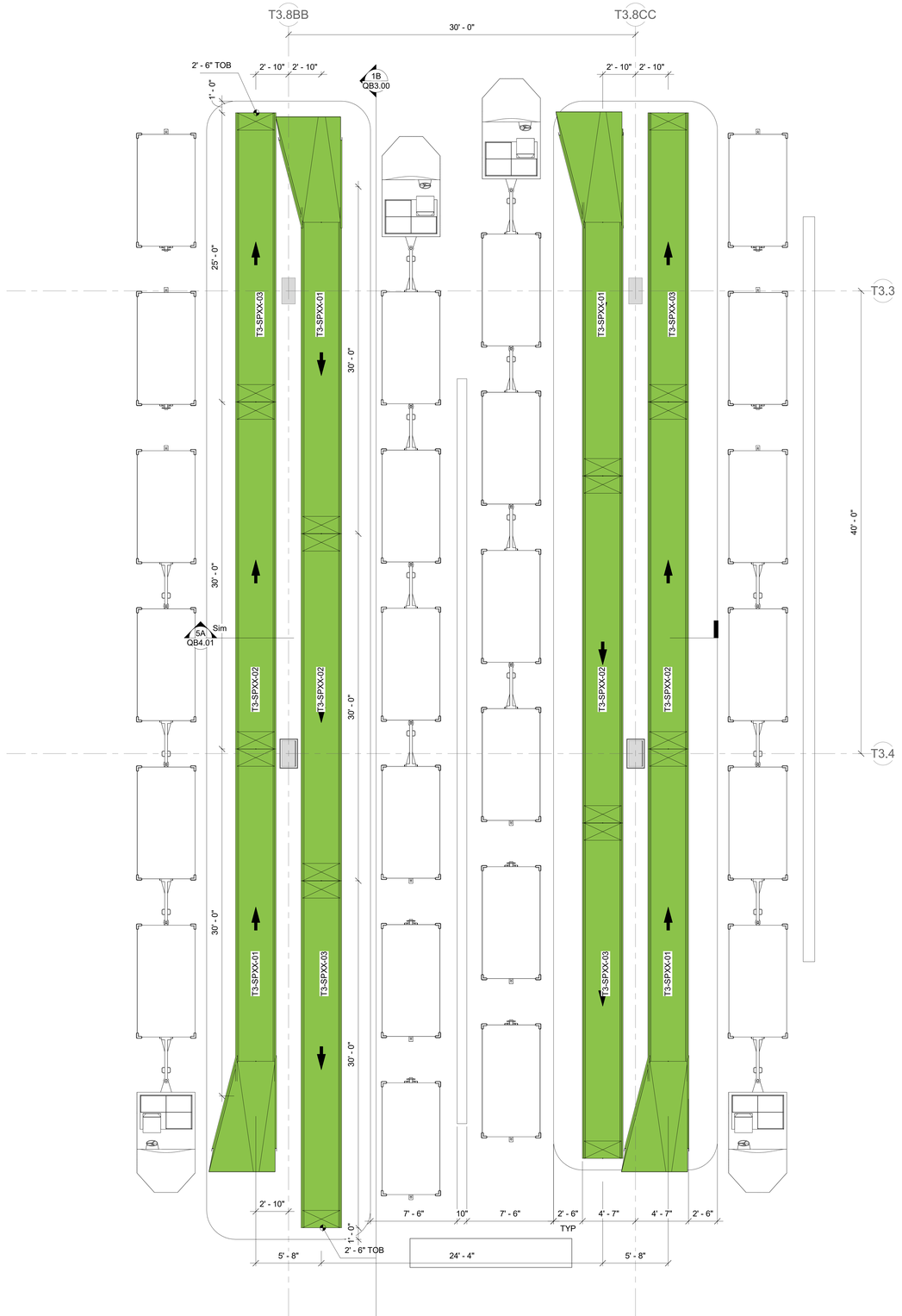
5A SECTIONS - SORT PIER
1/4" = 1'-0"



3A ENLARGED PLAN - PIER TYPICAL
1/4" = 1'-0"

LEGEND

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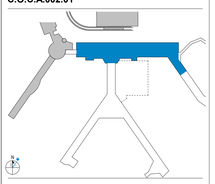

ENLARGED PLANS - BAG ROOM

DRAWN BY: **DS,SK,JG** CHECKED BY: **Checker**
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VOLUME:

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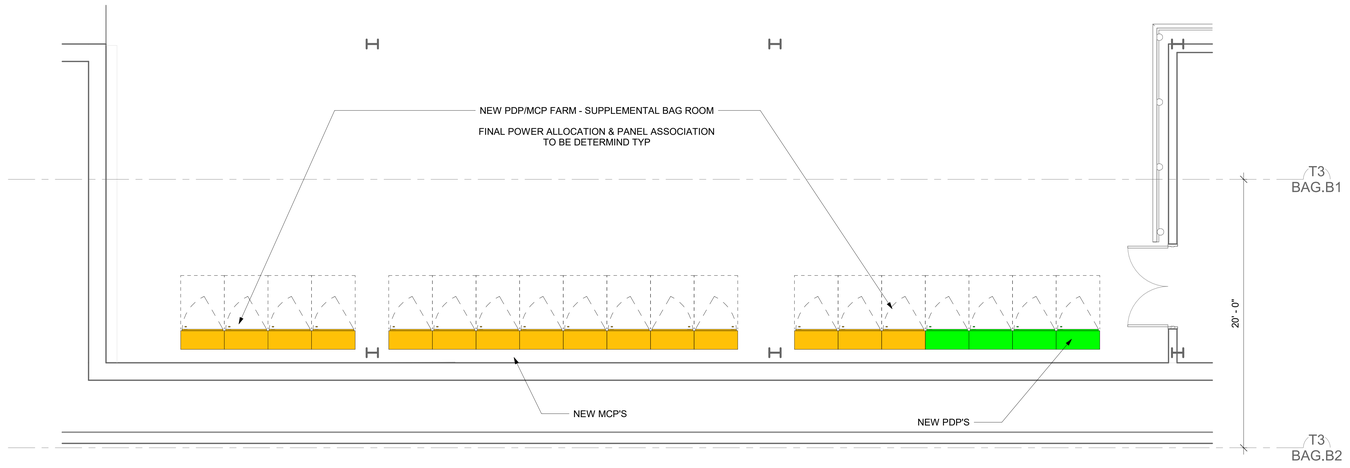
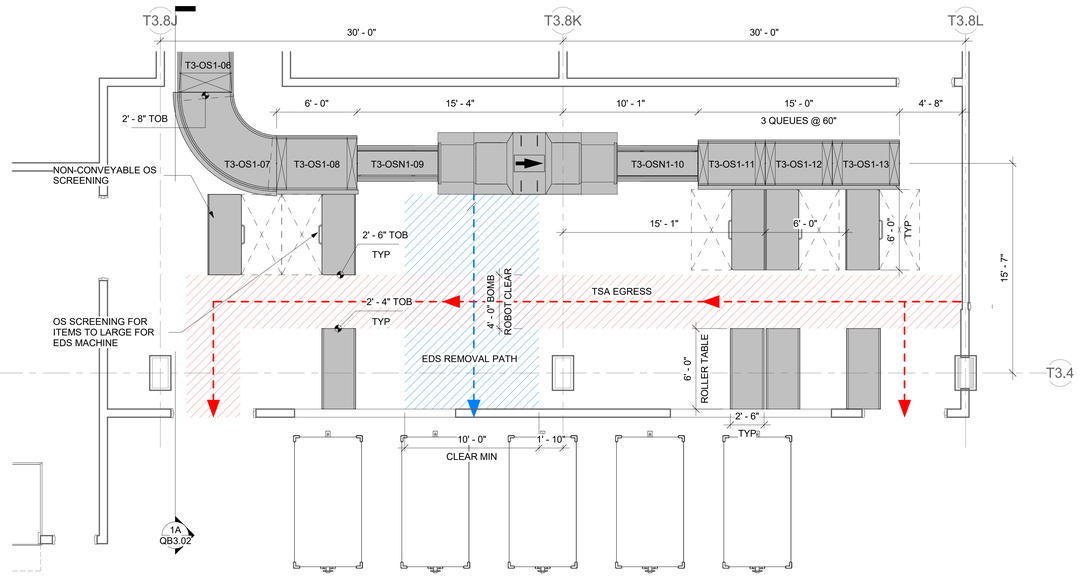


1C LOWER LEVEL - AREA 3G 3H MCP FARM
1/4" = 1'-0"



1A ENLARGED PLAN - OVERSIZE SCREENING
1/4" = 1'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

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ENLARGED PLANS

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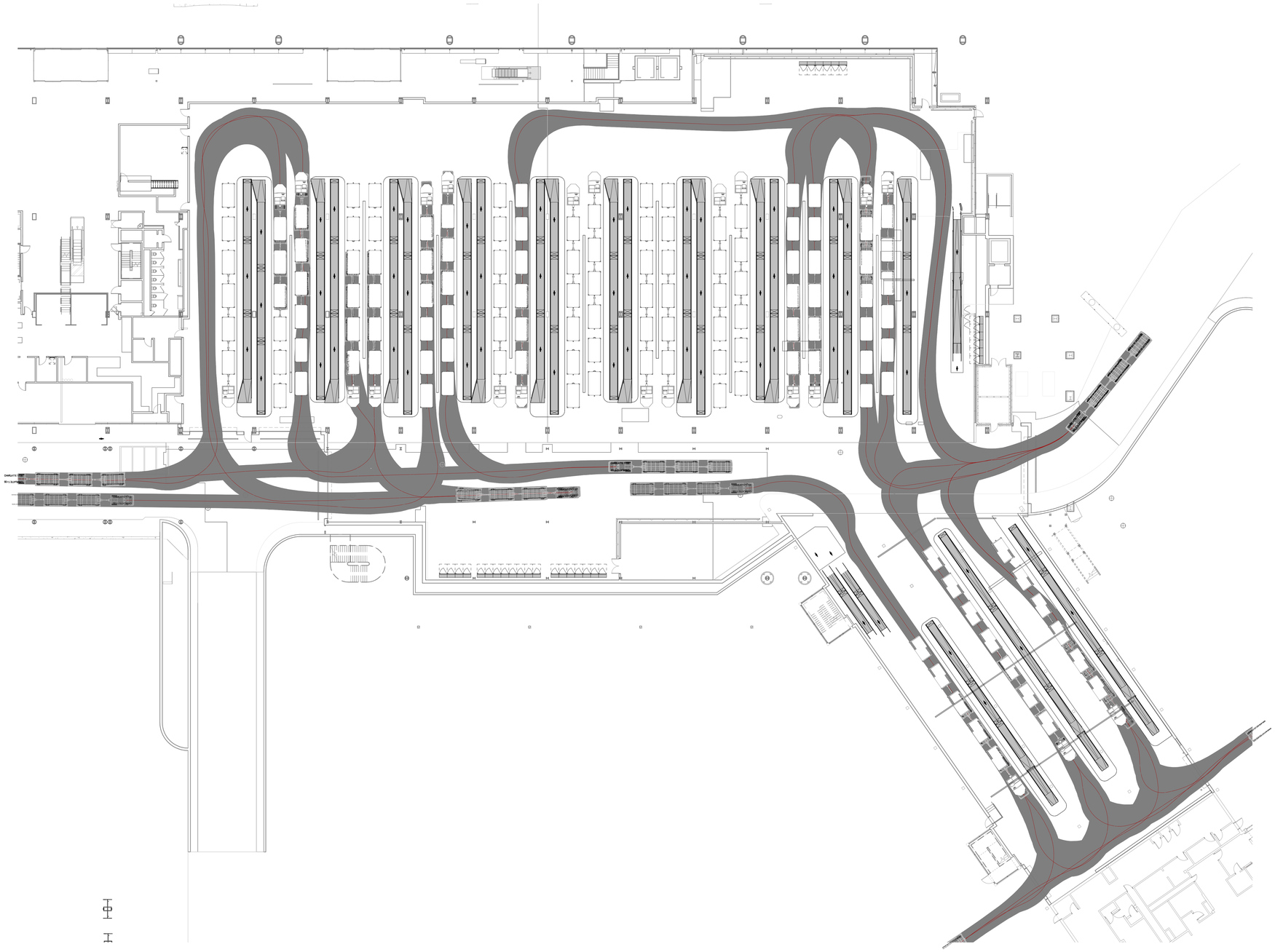

1A LOWER LEVEL - TUG AND CART
1/16" = 1'-0"

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Chicago Department of Aviation

CITY OF CHICAGO
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TUG & CART CIRCULATION

DRAWN BY: **DS,SK,JG** CHECKED BY: **Checker**

SHEET NUMBER
QB4.03

VOLUME:

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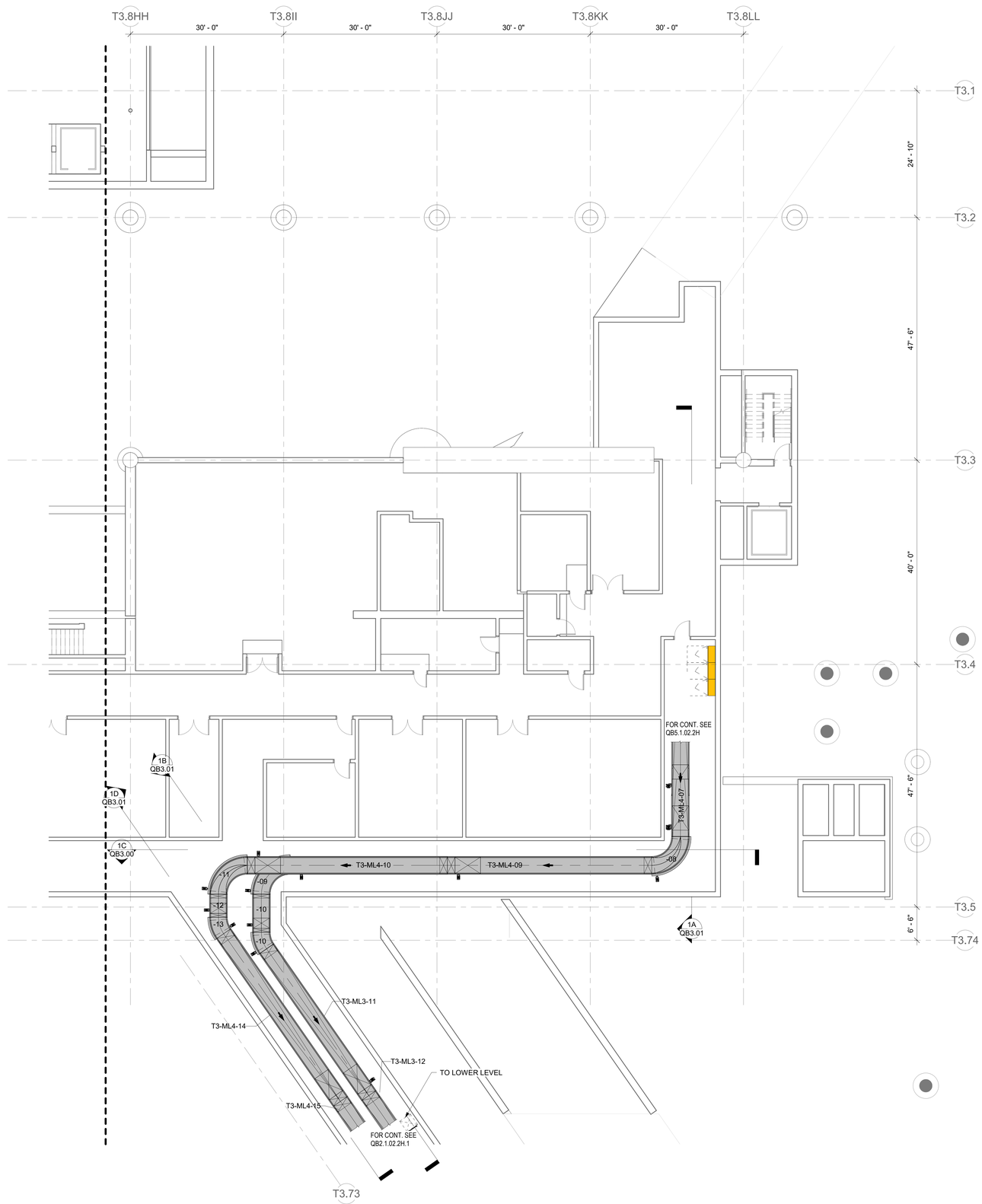
LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER



1A BASEMENT ONE PLAN - AREA 2H - CATWALK
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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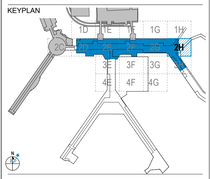
KEYPLAN



BASEMENT ONE PLAN - AREA 2H - CATWALK

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CHECKED BY: **Checker**
SHEET NUMBER: **QB5.1.01.2H**
VOLUME:

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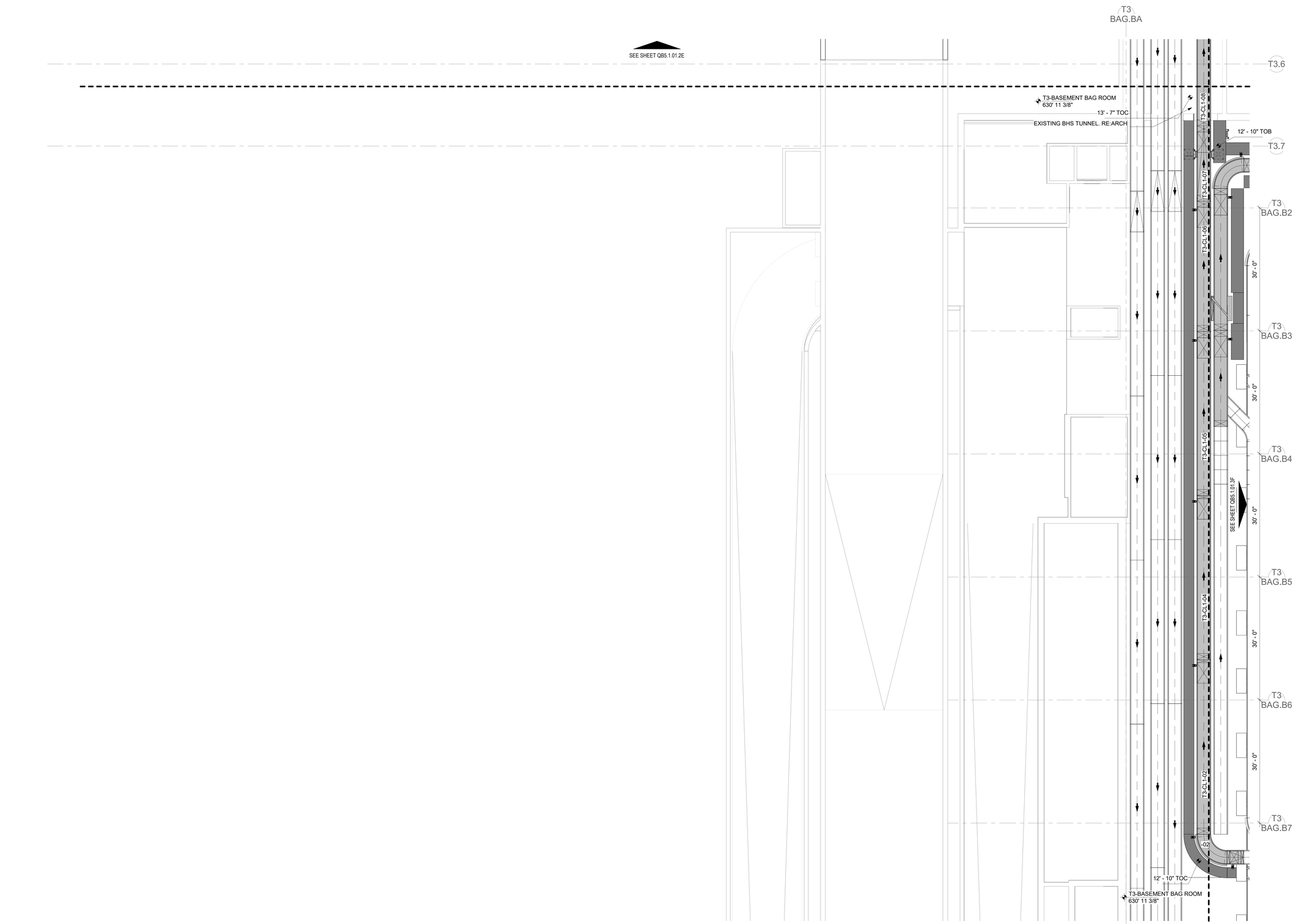
LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER



1A BASEMENT ONE PLAN - AREA 3E - CATWALK
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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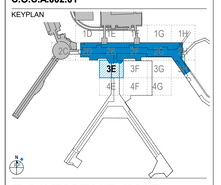

BASEMENT ONE PLAN - AREA 3E - CATWALK

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SHEET NUMBER: **QB5.1.01.3E** VOLUME:

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LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER

T3 BAG.BB | 38' - 0" | T3 BAG.BC | 38' - 0" | T3 BAG.BD | 38' - 0" | T3 BAG.BE | 38' - 0" | T3 BAG.BF | 38' - 0" | T3.78 | 38' - 0" | T3 BAG.BH

T3.6

T3 BAG.B1 — 20' - 0"

T3 BAG.B2 — 30' - 0"

T3 BAG.B3 — 30' - 0"

T3.78

T3 BAG.B4 — 30' - 0"

T3 BAG.B5 — 30' - 0"

T3 BAG.B6 — 30' - 0"

T3 BAG.B7

14' - 9" TOC

FOR CONT. SEE QB5.1.02.2F

12' - 9" TOC

-06

-05

T3-CL2-04

-03

T3-BASEMENT BAG ROOM
630' 11 3/8"

T3-CL2-02

T3-CL2-03

T3-CL2-01

12' - 9" TOC

SEE SHEET QB5.1.01.3E

R3 SUBSYSTEM

R2 SUBSYSTEM

-02

-01

R4 SUBSYSTEM

12' - 10" TOC

T3-BASEMENT BAG ROOM
630' 11 3/8"

1A BASEMENT ONE PLAN - AREA 3F - CATWALK

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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CITY OF CHICAGO
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Irving, TX 75063

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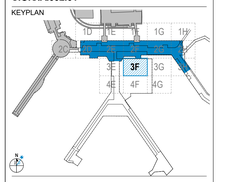
KEYPLAN



BASEMENT ONE PLAN - AREA 3F - CATWALK

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LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER

T3.8G | T3.8H | T3.8I | T3.8J | T3.8K | T3.8L | T3.8M | T3.8N | T3.8O | T3.8P

30' - 0" | 30' - 0" | 30' - 0" | 30' - 0" | 30' - 0" | 30' - 0" | 30' - 0" | 30' - 0" | 30' - 0"

T3.1 | T3.2 | T3.3 | T3.4 | T3.5 | T3.6

24' - 10" | 47' - 6" | 40' - 0" | 47' - 6" | 32' - 6"

FOR CONT. SEE QB2.2.03.2E

T3-OS1-02

-03

T3-OS1-04

1A QB3.02

T3-OS1-05

10' - 2" TOC

T3-OS1-06

FOR CONT. SEE QB2.2.03.2E

-07 | -09 | -10 | -11 | -12 | -13

SEE SHEET QB5.1.02.2F

T3-CD3 SUBSYSTEM

T3-CD5 SUBSYSTEM

T3-CD4 SUBSYSTEM

T5-07

C2 SUBSYSTEM

T5T-09

T5T-08

O3 SUBSYSTEM

T3-TXP1-05

O4-03 | O4-03A

FOR CONT. SEE QB5.1.01.2E

O2 SUBSYSTEM

-04

T3-TXP1-01 | T3-TXP1-02 | -03

7' - 9" TOC

T3
BAG.BA

1A LOWER LEVEL PLAN - AREA 2E - CATWALK
1/8" = 1'-0"

0 | 4'-0" | 8'-0" | 16'-0" | 32'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
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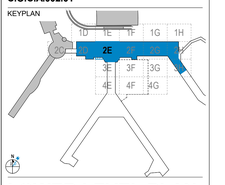
KEYPLAN



LOWER LEVEL PLAN - AREA 2E - CATWALK

DRAWN BY: **Author**
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SHEET NUMBER
QB5.1.02.2E
VOLUME:

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LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER

T3.8P 30' - 0" T3.8Q 30' - 0" T3.8R 30' - 0" T3.8S 30' - 0" T3.8T 30' - 0" T3.8U 30' - 0" T3.8V 30' - 0" T3.8W 30' - 0" T3.8X 30' - 0" T3.8Y

T3.1 T3.2 T3.3 T3.4 T3.5 T3.74 T3.6

24' - 10" 47' - 6" 40' - 0" 47' - 6" 6' - 6"

SEE SHEET QB5.1.02.2E

SEE SHEET QB5.1.02.2G

T3-CS1-19 T3-CS1-18 T3-CS1-21 T3-CS1-22

C2 SUBSYSTEM

T1 SUBSYSTEM

O2 SUBSYSTEM

T3-CL1-12 T3-CL1-13 T3-CL1-14 T3-CL1-11 T3-CL1-15 T3-CL1-16

T3-TXD1-01 T3-TXD1-02

T3-ML1-01 T3-ML1-04 T3-ML1-05 T3-ML1-06 T3-ML1-07

T3-ML2-09 T3-ML2-10 T3-ML2-11 T3-ML2-12 T3-ML2-05 T3-ML2-02 T3-ML2-03 T3-ML2-01

T3-XO1-06 T3-XO2-07

T3-CL2-10 T3-CL2-08

SA/T3-ML1 SA/T3-ML2 SD/T3-XO1 SD/T3-XO2

9' - 9" TOC 9' - 9" TOC VIF VIF 10' - 6" 8' - 3" TOC 8' - 9" TOC 8' - 5" TOC 8' - 3" TOC 8' - 9" TOC 8' - 11" TOC 8' - 11" TOC 0" TOC 6" TOC 8' - 9" TOC 6" TOC 9' - 0" TOC

FOR CONT. SEE **QB5.1.01.2F

1B QB3.02

5A QB3.02

1A LOWER LEVEL PLAN - AREA 2F - CATWALK

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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PHASE **DD** REVISION

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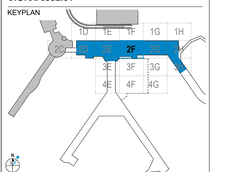

LOWER LEVEL PLAN - AREA 2F - CATWALK

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **QB5.1.02.2F** VOLUME:

LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER

T3.8Y | T3.8Z | T3.8AA | T3.8BB | T3.8CC | T3.8DD | T3.8EE | T3.8FF | T3.8GG | T3.8HH

30' - 0" typ.

T3.1 | T3.2 | T3.3 | T3.4 | T3.5 | T3.74 | T3.6

24' - 10" | 47' - 6" | 40' - 0" | 47' - 6" | 6' - 6"

FOR CONT. SEE QB2.2.03.2G

1C QB3.02

5A QB4.01

SEE SHEET QB5.1.02.2F

SEE SHEET QB5.1.02.2H

T3-CS1-18 | T3-CS1-17 | T3-CS1-15 | T3-CS1-14 | T3-CS1-13 | T3-CS1-12

T3-ML1-13 | T3-ML1-14 | T3-ML1-18 | T3-ML1-19 | T3-ML1-20 | T3-ML1-21 | T3-ML1-22 | T3-ML1-23

T3-ML1-11 | T3-ML1-10 | T3-ML1-09

T3-RC1-21 | T3-RC1-17 | T3-RC1-15 | T3-RC1-14 | T3-RC1-13 | T3-RC1-12 | T3-RC1-11 | T3-RC1-09

T3-RC2-11 | T3-RC2-10 | T3-RC2-09 | T3-RC2-08 | T3-RC2-06 | T3-RC2-04 | T3-RC2-03

T3-RC2-13 | T3-RC2-14 | T3-RC2-19

T3-ML2-17 | T3-ML2-18 | T3-ML2-19 | T3-ML2-20 | T3-ML2-21 | T3-ML2-22 | T3-ML2-23 | T3-ML2-24

T3-ML2-13 | T3-ML2-15 | T3-ML2-12

T3-TC2-13

T3-ME2-02 | T3-ME2-13 | T3-ME2-15 | T3-ME2-19

SD/T3-ME1 | SD/T3-ME2

SD/T3-SP1 | SD/T3-SP2 | SD/T3-SP3 | SD/T3-SP4 | SD/T3-SP5 | SD/T3-SP6 | SD/T3-SP7 | SD/T3-SP8 | SD/T3-SP9 | SD/T3-SP10 | SD/T3-SP11 | SD/T3-SP12 | SD/T3-SP13 | SD/T3-XO4

9' - 9" TOC | 8' - 3" TOC | 7' - 7" TOC | 6" TOC | 0" TOC | 9' - 3" TOC | 9' - 5" TOC

T3 BAG.BI | T3 BAG.BJ

1A LOWER LEVEL PLAN - AREA 2G - CATWALK
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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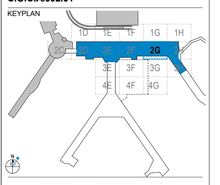

LOWER LEVEL PLAN - AREA 2G - UPPER - CATWALK

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
QB5.1.02.2G

VOLUME:

LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER

T3.8HH T3.8II T3.8JJ T3.8KK T3.8LL

30' - 0" 30' - 0" 30' - 0" 30' - 0"

T3.1 T3.2 T3.3 T3.4 T3.5 T3.74 T3.73

24' - 10" 47' - 6" 40' - 0" 47' - 6" 6' - 6"

FOR CONT. SEE QB2.2.03.2H

T3-CS1-02 T3-CS1-04 T3-CS1-06

5C QB3.02

SD/T3-SP14 SD/T3-SP15 SD/T3-SP18 SD/T3-SP19

T3-ML1-24 T3-ML1-25 T3-ML1-26 T3-ML3D

8' - 3" TOC 6" TOC 0" TOC 13' - 11"

T3-RC1-09 T3-RC1-07 T3-RC1-06 T3-RC1-02

SA/T3-RC1 SD/T3-XO3 9' - 3" TOC

T3-ML3-03 FOR CONT. SEE QB2.1.02.2H.1

T3-ML4-03 T3-ML4-06 FOR CONT. SEE QB2.1.02.2H.1

SEE SHEET QB5.1.02.2G

SA/T3-ML2-28 T3-RC2-02 T3-RC2-03

FOR CONT. SEE QB2.1.02.2H.1

T3-ML2-30 SD/T3-ML4 9' - 0" TOC

T3-ML2-24 T3-ML2-25 T3-ML2-26

SD/T3-SP13 SD/T3-SP16 SD/T3-SP17

8' - 3" TOC 0" TOC 6" TOC

1A QB3.00 1A QB3.01

L6 L7 L8 L9 LLL LKK LJJ

20' - 0" 30' - 0" 25' - 0" 20' - 0" 20' - 0" 34' - 1"

SEE SHEET QB5.1.02.3H

DN

1A LOWER LEVEL PLAN - AREA 2H - CATWALK

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

REVISION

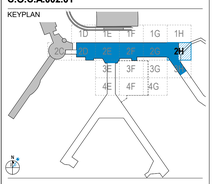
NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN** PACKAGE ISSUE DATE: **03/24/2023**

PHASE: **DD** REVISION

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



LOWER LEVEL PLAN - AREA 2H - UPPER - CATWALK

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **QB5.1.02.2H** VOLUME:

3/20/2023 11:05:56 AM

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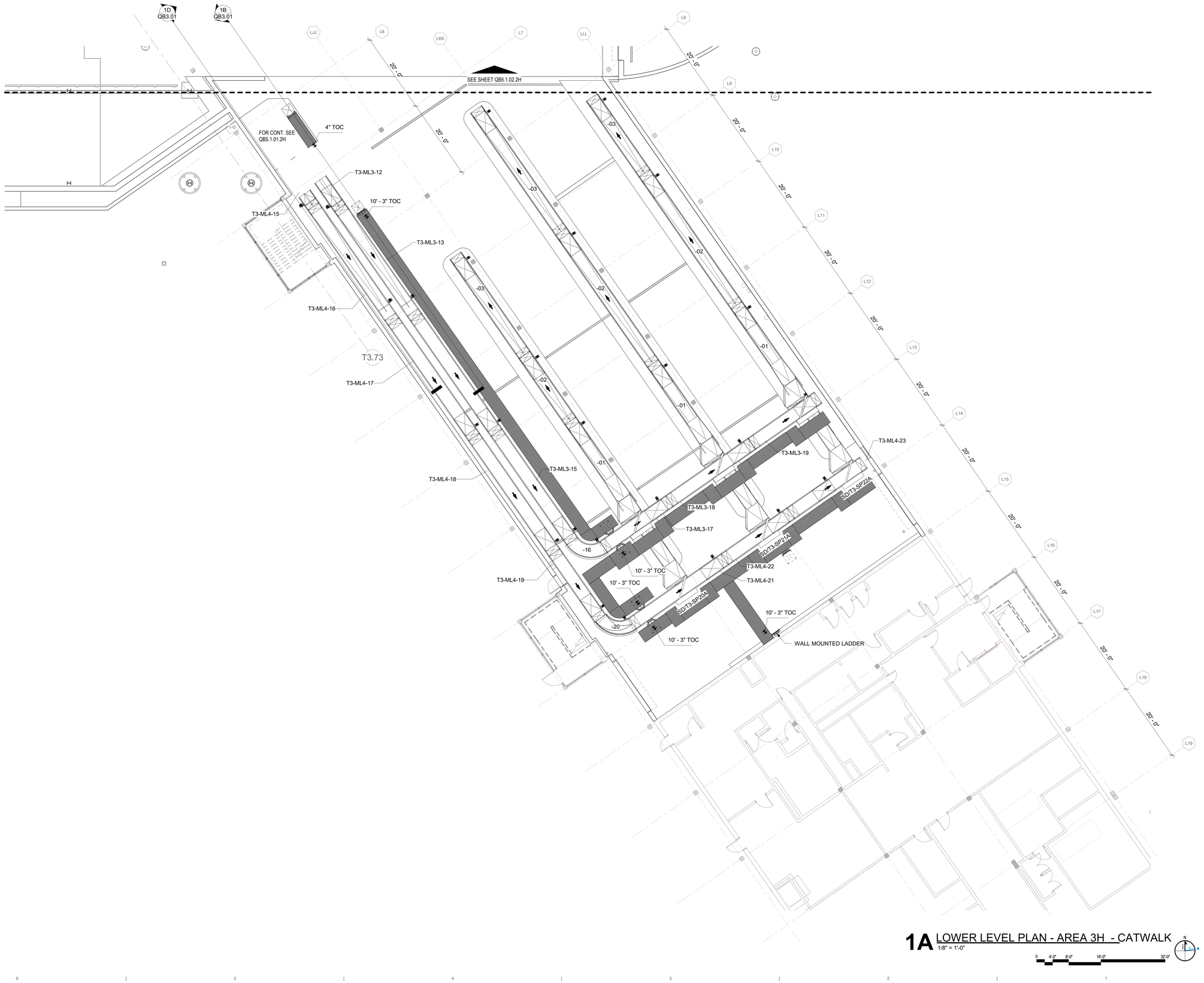
LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER



1A LOWER LEVEL PLAN - AREA 3H - CATWALK

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
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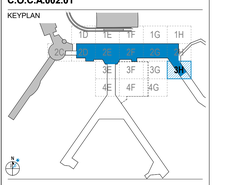
KEYPLAN



LOWER LEVEL PLAN - AREA 3H - CATWALK

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER **QB5.1.02.3H** VOLUME:

3/20/2023 11:06:02 AM

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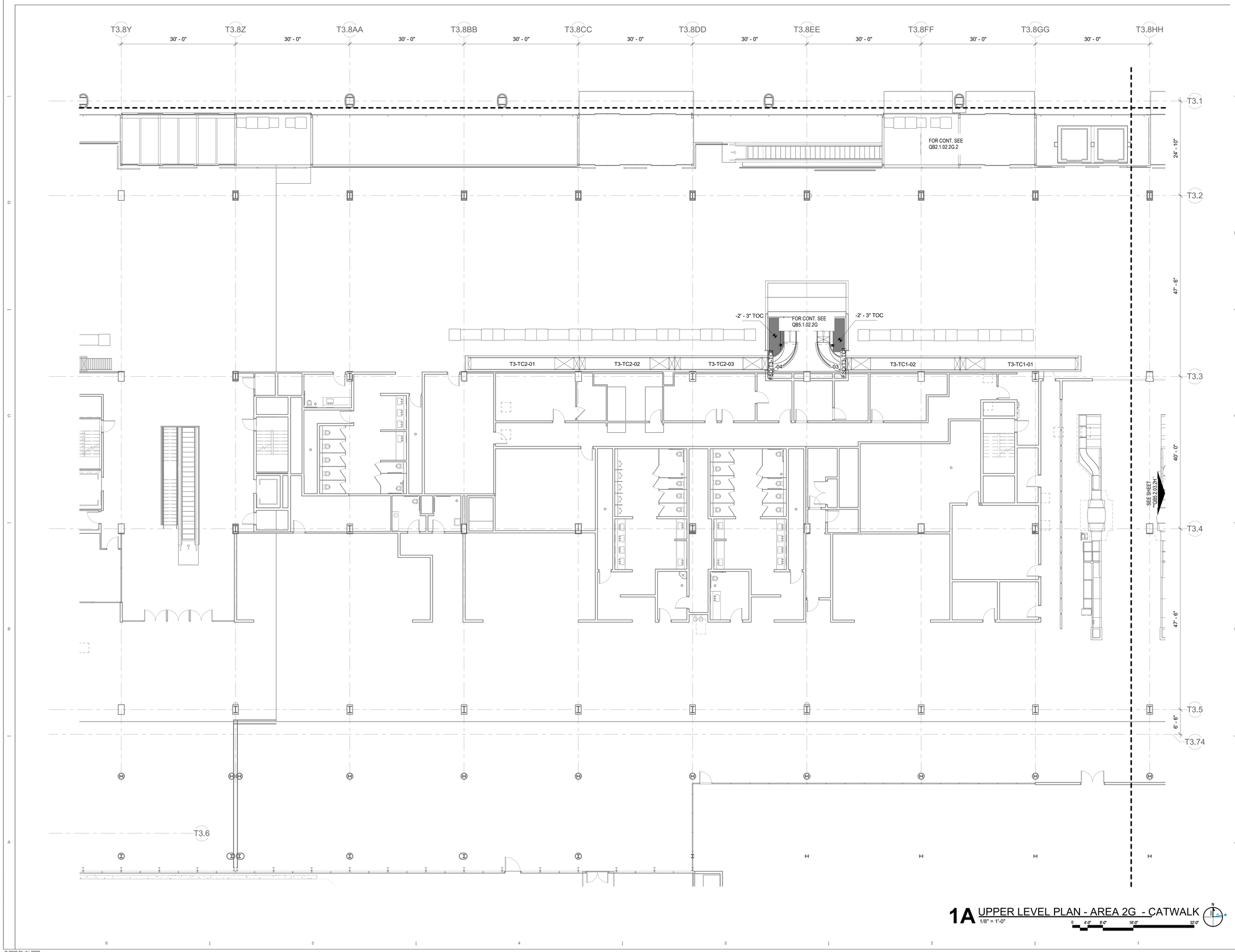
LEGEND

- STRUCTURAL DECK: RE ARCH
- NEW CATWALK
- EXISTING BHS
- NEW BHS
- FIXED ACCESS LADDER
- SWING OVER LADDER WITH TOOL TRAY (OPTIONAL)
- SHIPS LADDER
- CROSS OVER



1A UPPER LEVEL PLAN - AREA 2G - CATWALK
1/8" = 1'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

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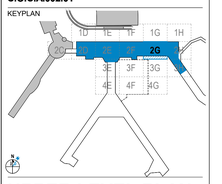
ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



UPPER LEVEL PLAN - AREA 2G - CATWALK

DRAWN BY: **Author**
CHECKED BY: **Checker**
SHEET NUMBER: **QB5.2.03.2G**
VOLUME:

3/20/2023 11:06:11 AM

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MCP-T3-01

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_15 Starters - 1 Bay					0						
FSD/T3-TC2	Door: Fire Door				1.5	3				6138.0 Btu/h	1	Standard
T3-TC2-01	Conveyor (Ticketing): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	DRC 4
T3-TC2-02	Conveyor (Ticketing): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	DRC 4
T3-TC2-03	Conveyor (Ticketing): Standard	24' - 5 1/8"		90			200	1.52		3109.9 Btu/h	1	DRC 4
T3-TC2-04	Conveyor (Spiral Turn - Drop): 90°	8' - 10"	13°	120			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-TC2-05	Conveyor (Decline_ANG): Standard	19' - 8"	12°	150			400	2.72	1	5565.1 Btu/h	1	PMM 2
T3-TC2-06	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	180			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-TC2-07	Conveyor (Decline_LG): Standard	35' - 0 1/4"	2°	210			400	3.46	0	7079.2 Btu/h	1	PMM 4XT
T3-TC2-08	Conveyor (Queue): Standard	3' - 6"		210			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TC2-09	Conveyor (Queue): Standard	3' - 6"		210			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TC2-10	Conveyor (Queue): Standard	3' - 6"		240			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TC2-11	Conveyor (Queue): Standard	4' - 0"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TC2-12	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
PANEL TOTALS		170' - 8 1/2"			1.5	3	3600	26.18	3		13	

MCP-T3-02

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_45 Starters - 3 Bay					0						
FSD/T3-TC1	Door: Fire Door				1.5	3				6138.0 Btu/h	1	Standard
SD/T3-CSN1	Door: Fire Door				1.5	3				6138.0 Btu/h	1	Standard
T3-CS1-01	Conveyor (Ticketing): Standard	34' - 8 7/8"		90			400	2.72		5565.1 Btu/h	1	DRC 4
T3-CS1-02	Conveyor (RBO - Decline): Standard	25' - 9"	18°	120			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-CS1-03	Conveyor (Power Turn): 90°	8' - 10"		150			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CS1-04	Conveyor (Decline_LG): Standard	11' - 4 5/8"	5°	180			200	6.3	0	12889.8 Btu/h	1	DRC 4
T3-CS1-05	Conveyor (Power Turn): 90°	8' - 10"		210			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CS1-06	Conveyor (Straight): Standard	21' - 0"		240			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-07	Conveyor (Straight): Standard	35' - 0"		270			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CS1-08	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CS1-09	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-10	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-11	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-12	Conveyor (Straight): Standard	20' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-13	Conveyor (Decline_LG): Standard	35' - 0"	1°	300			400	3.46	0	7079.2 Btu/h	1	PMM 4XT
T3-CS1-14	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CS1-15	Conveyor (Straight): Standard	37' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CS1-16	Conveyor (RBO - Incline): Standard	9' - 9 1/4"	12°	300			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-CS1-17	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CS1-18	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CS1-19	Conveyor (Straight): Standard	33' - 7 7/8"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CS1-20	Conveyor (Power Turn): 90°	8' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CS1-21	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CS1-22	Conveyor (Straight): Standard	31' - 2 1/8"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CS1-23	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-24	Conveyor (Decline_LG): Standard	28' - 2"	4°	300			400	2.72	0	5565.1 Btu/h	1	PMM 4
T3-CS1-25	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-26	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-27	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-28	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CS1-29	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TC1-01	Conveyor (Ticketing): Standard	31' - 9"		90			400	2.72		5565.1 Btu/h	1	DRC 4
T3-TC1-02	Conveyor (Ticketing): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	DRC 4
T3-TC1-03	Conveyor (Spiral Turn - Drop): 90°	8' - 10"	13°	120			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-TC1-04	Conveyor (Decline_LG): Standard	22' - 9 1/2"	12°	150			200	2.72	1	5565.1 Btu/h	1	PMM 2
T3-TC1-05	Conveyor (Spiral Turn - Drop): 45° - 12" Drop	4' - 5"	13°	210			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-TC1-06	Conveyor (Merge): 5'-0"	5' - 0"		330			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-TC2-13	Conveyor (Merge): 5'-0"	5' - 0"		330			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		675' - 3 3/8"			3	6	11400	93.3	5		38	

MCP-T3-03

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
T3-CL1-01	Conveyor (Queue - Decline): Standard	4' - 1 3/4"	3°	280			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-CL1-02	Conveyor (Power Turn): 90°	8' - 10"		280			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CL1-03	Conveyor (Straight): Standard	42' - 6 3/4"		280			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CL1-04	Conveyor (Straight): Standard	40' - 0"		280			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CL1-05	Conveyor (Straight): Standard	40' - 0"		280			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CL1-06	Conveyor (Straight): Standard	31' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CL1-07	Conveyor (Incline_LG): Standard	18' - 4 3/4"	2°	300			400	6.3	0	12889.8 Btu/h	1	DRC 4
T3-CL1-08	Conveyor (Straight): Standard	35' - 1 3/4"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CL1-08A	Conveyor (Tapered Roller): 10°	11 3/4"										
T3-CL1-09	Conveyor (Straight): Standard	12' - 10 3/8"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL1-10	Conveyor (Power Turn): 80°	7' - 10 1/4"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL1-11	Conveyor (Incline_ANG): Standard	30' - 4 1/8"	18°	300			400	6.3	1	12889.8 Btu/h	1	DRC 4
T3-CL1-12	Conveyor (RBO - Incline): Standard	20' - 11 3/4"	18°	270			200	2.72	1	5565.1 Btu/h	1	PMM 2
T3-CL1-13	Conveyor (Straight): Standard	36' - 7 3/8"		240			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CL1-14	Conveyor (Straight): Standard	40' - 0"		210			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-CL1-15	Conveyor (Straight): Standard	26' - 3 5/8"		180			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CL1-16	Conveyor (Power Turn): 45°	4' - 5"		210			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL1-17	Conveyor (Straight): Standard	11' - 1 3/4"		240			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL1-18	Conveyor (Queue): Standard	3' - 6"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL2-D	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-TXD1-01	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-TXD1-02	Conveyor (RBO - Incline): Standard	27' - 4 3/8"	18°	120			400	6.3	1	12889.8 Btu/h	1	DRC 4
T3-TXD1-03	Conveyor (Power Turn): 45°	4' - 5"		150			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TXD1-04	Conveyor (Queue): Standard	3' - 6"		180			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TXD1-05	Conveyor (Merge): 5'-0"	5' - 0"		210			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		481' - 2 3/8"			2	10.1	7400	68.88	3		26	

NOTES:

1. THESE DRAWINGS ARE PROVIDED FOR INFORMATION ONLY. THEY ARE SUBMITTED TO DESCRIBE SCOPE OF WORK AND TO BE USED FOR PRICING ONLY.
2. THE CONTRACTOR MUST COORDINATE ALL PROTECTION AND INTERACTION WITH ANY OF THE TSA EQUIPMENT WITH THE LOCAL TSA MANAGER. TSA EQUIPMENT MUST BE PROPERLY PROTECTED PRIOR TO DEMOLITION AND CONSTRUCTION IN THE E3 MATRIX RESOLUTION ROOM. THE BHSC SHALL NOTIFY LOCAL TSA MANAGER PRIOR TO CONSTRUCTION AND TAKE SPECIAL CARE NOT TO DAMAGE ANY OF THE EQUIPMENT DURING CONSTRUCTION.
3. ALL HORSEPOWER HAS BEEN CALCULATED AT 480VAC/60hz.
4. ALL POWER CALCULATION BEING PROVIDED BY INTROBA ARE TO ASSIST IN DETERMINING APPROXIMATED POWER REQUIREMENTS. BHS POWER REQUIREMENTS AND PLANNING SHALL BE BASED ON THE LOADS THAT INCLUDE CONTINGENCY VALUE. PRIOR TO POWER BEING PULLED FROM THE POWER DISTRIBUTION PANEL, A COORDINATION MEETING SHALL BE HELD TO ENSURE NO DESIGN CHANGESHAVE OCCURRED AND THE APPROPRIATE VALUES HAVE BEEN ESTABLISHED.
5. THE POWER SUMMARY PROVIDED LOADS INCLUDE AN ADDITIONAL 25% TO THE MOTOR AMPS FOR CONTROL POWER AND CONTINGENCY.
6. CLAIM DEVICES AND MAKE-UP UNITS CONSIST OF MULTIPLE DRIVES. HP/FLA TOTAL REPRESENTS THE SUM OF THE 5HP DRIVES.
7. CTX AND EDS EQUIPMENT HEAT REJECTION LOADS ARE TYPICAL AND SHALL BE COORDINATED WITH THE MECHANICAL ENGINEERS.

MCP-T3-04

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
SA/T3-ML2	RFID.ATR.Camera: RFID.ATR.Camera					20				40920.0 Btu/h		Standard
SD/T3-XO1	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-CL2-01	Conveyor (Straight): Standard	23' - 6"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL2-02	Conveyor (Straight): Standard	34' - 6 7/8"		280			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CL2-03	Conveyor (Power Turn): 90°	8' - 10"		280			400	2.72		5565.1 Btu/h	1	PMM 4
T3-CL2-04	Conveyor (Straight): Standard	19' - 2 1/8"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL2-05	Conveyor (Spiral Turn - Rise): 90°	8' - 10"	13°	280			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-CL2-06	Conveyor (Incline_LG): Standard	5' - 4 3/8"	16°	280			200	2.8	1	5728.8 Btu/h	1	DRC 2
T3-CL2-07	Conveyor (Spiral Turn - Rise): 90°	8' - 10"	13°	280			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-CL2-08	Conveyor (RBO - Incline): Standard	24' - 8 1/4"	12°	280			200	2.72	1	5565.1 Btu/h	1	PMM 2
T3-CL2-09	Conveyor (Queue): Standard	3' - 6"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-CL2-10	Conveyor (Queue): Standard	3' - 6"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-01	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-02	Conveyor (Straight): Standard	19' - 3"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-03	Conveyor (RBO - Incline): Standard	41' - 5 1/4"	12°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4XT
T3-ML2-04	Conveyor (Power Turn): 90°	8' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML2-05	Conveyor (RBO - Incline): Standard	18' - 5 1/8"	18°	300			200	2.72	1	5565.1 Btu/h	1	PMM 2
T3-ML2-06	Conveyor (RBO - Decline): Standard	7' - 11 3/8"	18°	300			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-ML2-07	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ML2-08	Conveyor (Decline_LG): Standard	8' - 5 3/4"	5°	300			200	2.72	0	5565.1 Btu/h	1	PMM 2
T3-ML2-09	Conveyor (Straight): Standard	20' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-10	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-XO1-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		270			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		320' - 7 3/8"			2	30.1	6000	49.08	8		24	

MCP-T3-05

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
SA/T3-ML1	RFID.ATR.Camera: RFID.ATR.Camera					20				40920.0 Btu/h		Standard
SD/T3-XO2	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-CL1-19	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-01	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-02	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-03	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-04	Conveyor (Straight): Standard	34' - 9 5/8"		270			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML1-05	Conveyor (Straight): Standard	15' - 1"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-06	Conveyor (Straight): Standard	28' - 8 7/8"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML1-07	Conveyor (Spiral Turn - Rise): 90° - 12" Rise	8' - 10"	6°	300			400	2.72	0	5565.1 Btu/h	1	PMM 4
T3-ML1-08	Conveyor (Incline_LG): Standard	10' - 0 1/8"	2°	300			400	2.72	0	5565.1 Btu/h	1	PMM 2
T3-ML1-09	Conveyor (Straight): Standard	35' - 0"		270			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML1-10	Conveyor (Straight): Standard	20' - 0"		240			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-11	Conveyor (Straight): Standard	18' - 5"		210			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-12	Conveyor (Power Turn): 90°	8' - 10"		240			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML1-13	Conveyor (Decline_LG): Standard	25' - 4 7/8"	2°	300			400	6.3	0	12889.8 Btu/h	1	DRC 4
T3-ML1-14	Conveyor (Straight): Standard	35' - 8 1/2"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML1-15	Conveyor (Power Turn): 90°	8' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC1-25	Conveyor (Merge): 5'-0"	5' - 0"		240			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-XO1-02	Conveyor (Power Turn): 45°	4' - 5"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO1-03	Conveyor (Decline_LG): Standard	9' - 2"	1°	270			200	6.3	0	12889.8 Btu/h	1	DRC 4
T3-XO1-04	Conveyor (Queue): Standard	3' - 6"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO1-05	Conveyor (Power Turn): 45°	4' - 5"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO1-06	Conveyor (Merge): 5'-0"	5' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-XO2-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		270			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-XO2-02	Conveyor (Power Turn): 45°	4' - 5"		270			200	1.52		3109.9 Btu/h	1	PMM 2
PANEL TOTALS		303' - 7 1/4"			2	30.1	7200	62.94	0		27	

MCP-T3-06

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
SD/T3-SP1	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP4	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML2-11	Conveyor (Straight): Standard	30' - 0"		270			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML2-12	Conveyor (Straight): Standard	40' - 0"		270			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML2-13	Conveyor (Decline_LG): Standard	19' - 6 7/8"	1°	300			200	6.3	0	12889.8 Btu/h	1	DRC 4
T3-ML2-14	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-15	Conveyor (Queue): Standard	10' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-16	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-17	Conveyor (Straight): Standard	28' - 0"		270			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML2-18	Conveyor (Straight): Standard	30' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML2-19	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC2-19	Conveyor (Merge): 5'-0"	5' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-SP1-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP1-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP1-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP4-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP4-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP4-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-XO2-03	Conveyor (Incline_LG): Standard	5' - 9 3/8"	9°	270			400	6.3	1	12889.8 Btu/h	1	DRC 4
T3-XO2-04	Conveyor (Queue): Standard	3' - 6"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO2-05	Conveyor (Queue): Standard	3' - 6"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO2-06	Conveyor (Power Turn): 45°	4' - 5"		270			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO2-07	Conveyor (Merge): 5'-0"	5' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		388' - 7 3/8"			4	20.2	7000	59.3	1		27	

MCP-T3-07

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
SD/T3-SP2	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP3	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP6	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML1-16	Conveyor (Queue - Decline): Standard	3' - 6 1/8"	4°	300			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-ML1-17	Conveyor (Power Turn): 90°	8' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML1-18	Conveyor (Straight): Standard	24' - 7 5/8"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-19	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML1-20	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP2-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP2-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP2-03	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP3-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP3-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP3-03	Conveyor (Straight): Standard	29' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP6-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP6-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP6-03	Conveyor (Straight): Standard	35' - 0"		90			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		370' - 11 3/4"			6	30.3	5200	37.16	0		23	

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440

MCP-T3-08

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_45 Starters - 3 Bay					0						
SD/T3-SP5	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP8	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP9	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP12	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP13	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML2-20	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML2-21	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML2-22	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML2-23	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML2-24	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP5-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP5-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP5-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP8-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP8-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP8-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP9-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP9-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP9-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP12-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP12-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP12-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP13-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP13-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP13-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
PANEL TOTALS		570' - 0"			10	50.5	8000	55.88	0		35	

MCP-T3-09

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_45 Starters - 3 Bay					0						
SD/T3-SP7	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP10	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP11	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP14	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP15	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML1-21	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML1-22	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML1-23	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML1-24	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML1-25	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-SP7-01	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP7-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP7-03	Conveyor (Straight): Standard	29' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP10-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP10-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP10-03	Conveyor (Straight): Standard	35' - 0"		90			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-SP11-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP11-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP11-03	Conveyor (Straight): Standard	29' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP14-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP14-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP14-03	Conveyor (Straight): Standard	35' - 0"		90			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-SP15-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP15-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP15-03	Conveyor (Straight): Standard	29' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
PANEL TOTALS		607' - 0"			10	50.5	8000	58.1	0		35	

MCP-T3-10

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_45 Starters - 3 Bay					0						
SA/T3-ML2-28	RFID.ATR.Camera: RFID.ATR.Camera					20				40920.0 Btu/h		Standard
SD/T3-ML4	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP16	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP17	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-XO4	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML2-25	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML2-26	Conveyor (Straight): Standard	23' - 7 7/8"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-27	Conveyor (Spiral Turn - Rise): 90° - 12" Rise	8' - 10"	6°	300			400	2.72	0	5565.1 Btu/h	1	PMM 4
T3-ML2-28	Conveyor (Straight): Standard	9' - 0 3/8"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-29	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML2-30	Conveyor (Straight): Standard	34' - 3 1/2"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML4-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML4-02	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML4-03	Conveyor (Straight): Standard	35' - 6 1/2"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML4-04	Conveyor (Spiral Turn - Drop): 45° - 6" Drop	4' - 5"	6°	300			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-ML4-05	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-RC2-01	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC2-02	Conveyor (Straight): Standard	30' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC2-03	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC2-04	Conveyor (Straight): Standard	27' - 10 1/4"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC2-05	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC2-06	Conveyor (Straight): Standard	28' - 11 3/8"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC2-07	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-SP16-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP16-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP16-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP17-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP17-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP17-03	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-XO3-10	Conveyor (Merge): 5'-0"	5' - 0"		310			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-XO4-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		250			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		474' - 8 1/8"			8	60.4	8800	64.82	2		38	

MCP-T3-11

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
SA/T3-RC1	RFID.ATR.Camera: RFID.ATR.Camera					20				40920.0 Btu/h		Standard
SD/T3-SP18	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP19	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-XO3	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML1-26	Conveyor (Straight): Standard	24' - 7 3/8"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-27	Conveyor (Straight): Standard	20' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML1-28	Conveyor (Power Turn): 90°	8' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML1-29	Conveyor (Straight): Standard	12' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML3-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML3D	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-RC1-01	Conveyor (Power Turn): 45°	4' - 5"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-02	Conveyor (Straight): Standard	22' - 9 7/8"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-03	Conveyor (Power Turn): 45°	4' - 5"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-04	Conveyor (RBO - Incline): Standard	7' - 4 3/8"	12°	280			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-RC1-05	Conveyor (Queue): Standard	4' - 0"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-06	Conveyor (Straight): Standard	25' - 0"		280			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC1-07	Conveyor (Straight): Standard	35' - 4"		280			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC1-08	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-09	Conveyor (Straight): Standard	18' - 2 1/4"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-SP18-01	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP18-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP18-03	Conveyor (Straight): Standard	35' - 0"		90			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-SP19-01	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP19-02	Conveyor (Straight): Standard	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-SP19-03	Conveyor (Straight): Standard	35' - 0"		90			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-XO3-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		250			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-XO3-02	Conveyor (Power Turn): 45°	4' - 5"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO3-03	Conveyor (Queue - Incline): Standard	3' - 6 1/8"	4°	280			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-XO3-04	Conveyor (Queue - Incline): Standard	3' - 6"	3°	280			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-XO3-06	Conveyor (Queue): Standard	3' - 6"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO3-07	Conveyor (Queue): Standard	3' - 6"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO3-08	Conveyor (Power Turn): 45°	4' - 5"		280			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO3-09	Conveyor (Queue): Standard	3' - 6"		280			200	1.52		3109.9 Btu/h	1	PMM 2
PANEL TOTALS		408' - 11"			8	60.4	7800	59.46	1		40	

MCP-T3-12

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
SD/T3-ME1	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ME1-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		270			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ME2-12	Conveyor (Power Turn): 90°	8' - 10"		210			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ME2-13	Conveyor (Straight): Standard	41' - 6 1/4"		240			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ME2-14	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	270			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ME2-15	Conveyor (Straight): Standard	21' - 5 3/8"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-16	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-17	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-18	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-19	Conveyor (Merge): 5'-0"	5' - 0"		330			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC2-08	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC2-09	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC2-10	Conveyor (Straight): Standard	32' - 1"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC2-11	Conveyor (Straight): Standard	19' - 11 1/4"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC2-12	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-RC2-13	Conveyor (Straight): Standard	20' - 0 1/4"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC2-14	Conveyor (Straight): Standard	23' - 0 5/8"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC2-15	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC2-16	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC2-17	Conveyor (Queue - Incline): Standard	3' - 6"	3°	300			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-RC2-18	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
PANEL TOTALS		299' - 0"			2	10.1	5800	44.9	2		23	

MCP-T3-13

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
SD/T3-ME2	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ME1-01	Conveyor (Reverse Merge): 3'-1" Standard	3' - 1"		210			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ME1-10	Conveyor (Merge): 5'-0"	5' - 0"		150			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC1-10	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-11	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC1-12	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC1-13	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC1-14	Conveyor (Straight): Standard	20' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-15	Conveyor (Straight): Standard	26' - 3 5/8"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-RC1-16	Conveyor (Spiral Turn - Drop): 45° - 6" Drop	4' - 5"	6°	270			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-RC1-17	Conveyor (Straight): Standard	37' - 9 3/8"		240			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-RC1-18	Conveyor (Power Turn): 45°	4' - 5"		210			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-19	Conveyor (Straight): Standard	21' - 6 1/4"		180			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-20	Conveyor (Spiral Turn - Rise): 45° - 6" Rise	4' - 5"	6°	150			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-RC1-21	Conveyor (Straight): Standard	14' - 1"		120			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-22	Conveyor (Spiral Turn - Rise): 45° - 6" Rise	4' - 5"	6°	150			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-RC1-23	Conveyor (Queue): Standard	3' - 6"		180			200	1.52		3109.9 Btu/h	1	PMM 2
T3-RC1-24	Conveyor (Power Turn): 45°	4' - 5"		210			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO4-02	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO4-03	Conveyor (Queue - Incline): Standard	3' - 6 1/8"	4°	300			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-XO4-04	Conveyor (Queue - Incline): Standard	3' - 6"	3°	300			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-XO4-05	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO4-06	Conveyor (Queue): Standard	3' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO4-07	Conveyor (Power Turn): 45°	4' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-XO4-08	Conveyor (Merge): 5'-0"	5' - 0"		330			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		305' - 7 1/2"			2	10.1	6400	51.26	1		27	

MCP-T3-14

CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
T3-ME1-02	Conveyor (Queue - Incline): Standard	3' - 6 1/8"	4°	180			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-ME1-03	Conveyor (Queue): Standard	3' - 6"		150			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME1-04	Conveyor (Queue): Standard	3' - 6"		120			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME1-05	Conveyor (Queue): Standard	3' - 6"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME1-06	Conveyor (Queue): Standard	3' - 6"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME1-07	Conveyor (Queue): Standard	3' - 6"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME1-08	Conveyor (Queue - Incline): Standard	3' - 6 1/4"	5°	90			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-ME1-09	Conveyor (Queue - Incline): Standard	3' - 10 3/8"	4°	120			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-ME2-02	Conveyor (Decline_LG): Standard	20' - 2 1/8"	2°	240			200	6.3	0	12889.8 Btu/h	1	DRC 4
T3-ME2-03	Conveyor (Power Turn): 45°	4' - 5"		210			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-04	Conveyor (Queue): Standard	3' - 6"		180			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-05	Conveyor (Queue): Standard	3' - 6"		150			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-06	Conveyor (Queue): Standard	3' - 6"		120			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-07	Conveyor (Queue): Standard	4' - 0 1/8"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-08	Conveyor (Queue): Standard	3' - 6"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-09	Conveyor (Queue): Standard	3' - 6"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ME2-10	Conveyor (Queue - Incline): Standard	4' - 3 3/8"	4°	90			200	1.52	0	3109.9 Btu/h	1	PMM 2
T3-ME2-11	Conveyor (Queue - Incline): Standard	5' - 10 1/8"	7°	120			200	1.52	0	3109.9 Btu/h	1	PMM 2
PANEL TOTALS		84' - 7 1/4"			0	0	3600	32.14	0		18	

NOTES:

1. THESE DRAWINGS ARE PROVIDED FOR INFORMATION ONLY. THEY ARE SUBMITTED TO DESCRIBE SCOPE OF WORK AND TO BE USED FOR PRICING ONLY.
2. THE CONTRACTOR MUST COORDINATE ALL PROTECTION AND INTERACTION WITH ANY OF THE TSA EQUIPMENT WITH THE LOCAL TSA MANAGER. TSA EQUIPMENT MUST BE PROPERLY PROTECTED PRIOR TO DEMOLITION AND CONSTRUCTION IN THE E3 MATRIX RESOLUTION ROOM. THE BHSC SHALL NOTIFY LOCAL TSA MANAGER PRIOR TO CONSTRUCTION AND TAKE SPECIAL CARE NOT TO DAMAGE ANY OF THE EQUIPMENT DURING CONSTRUCTION.
3. ALL HORSEPOWER HAS BEEN CALCULATED AT 480VAC/60hz.
4. ALL POWER CALCULATION BEING PROVIDED BY INTROB

MCP-T3-15												
CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_45 Starters - 3 Bay					0						
SD/T3-SP2C	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP20B	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP21B	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML3-02	Conveyor (Spiral Turn - Drop): 45° - 6" Drop	4' - 5"	6°	300			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-ML3-03	Conveyor (Decline_LG): Standard	35' - 8 3/8"	11°	300			400	3.46	1	7079.2 Btu/h	1	PMM 4XT
T3-ML3-04	Conveyor (Decline_ANG): Standard	34' - 10 1/2"	18°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ML3-05	Conveyor (Decline_LG): Standard	8' - 2 5/8"	11°	300			200	1.52	1	3109.9 Btu/h	1	PMM 2
T3-ML3-06	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ML3-07	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML3-08	Conveyor (Straight): Standard	30' - 9"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML3-09	Conveyor (Power Turn): 90°	8' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML3-10	Conveyor (Power Turn): 35°	3' - 5 1/4"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML3-10	Conveyor (Queue): Standard	7' - 5"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML3-11	Conveyor (Incline_LG): Standard	35' - 2 1/2"	6°	300			400	2.72	0	5565.1 Btu/h	1	PMM 4XT
T3-ML3-12	Conveyor (Incline_ANG): Standard	37' - 8 7/8"	16°	300			400	3.46	1	7079.2 Btu/h	1	PMM 4XT
T3-ML3-13	Conveyor (RBO - Incline): Standard	34' - 4 1/4"	16°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ML3-14	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML3-15	Conveyor (Straight): Standard	32' - 10 1/2"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML3-16	Conveyor (Power Turn): 90°	8' - 10"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML3-17	Conveyor (Straight): Standard	20' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML3-18	Conveyor (Straight): Standard	25' - 0"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML3-19	Conveyor (Straight): Standard	20' - 1 1/2"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-SP20-01	Conveyor (Decline_LG): Standard	40' - 0 1/8"	1°	90			400	2.72	0	5565.1 Btu/h	1	PMM 4XT
T3-SP20-02	Conveyor (Decline_LG): Standard	20' - 0"	1°	90			200	2.72	0	5565.1 Btu/h	1	PMM 2
T3-SP20-03	Conveyor (Decline_LG): Standard	30' - 0"	1°	90			400	2.72	0	5565.1 Btu/h	1	PMM 4
T3-SP21-01	Conveyor (Decline_LG): Standard	40' - 0 1/8"	1°	90			400	2.72	0	5565.1 Btu/h	1	PMM 4XT
T3-SP21-02	Conveyor (Decline_LG): Standard	40' - 0 1/8"	1°	90			400	2.72	0	5565.1 Btu/h	1	PMM 4XT
T3-SP21-03	Conveyor (Decline_LG): Standard	37' - 0 1/8"	1°	90			400	2.72	0	5565.1 Btu/h	1	PMM 4XT
T3-SP22-01	Conveyor (Decline_LG): Standard	40' - 0 1/8"	1°	90			400	2.72	0	5565.1 Btu/h	1	PMM 4XT
T3-SP22-02	Conveyor (Decline_LG): Standard	40' - 0 1/8"	1°	90			400	2.72	0	5565.1 Btu/h	1	PMM 4XT
T3-SP22-03	Conveyor (Decline_LG): Standard	23' - 0 1/8"	2°	90			200	2.72	0	5565.1 Btu/h	1	PMM 2
PANEL TOTALS		741' - 8 1/8"			6	30.3	9600	71.92	7		37	

MCP-T3-16												
CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
SD/T3-SP20A	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP21A	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
SD/T3-SP22A	Diverter (HSD): 45° Divert				2	10.1				20664.6 Btu/h	3	Standard
T3-ML4-06	Conveyor (Decline_ANG): Standard	25' - 6 1/4"	18°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ML4-07	Conveyor (Decline_ANG): Standard	22' - 11 5/8"	18°	300			400	2.72	1	5565.1 Btu/h	1	PMM 2
T3-ML4-08	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ML4-09	Conveyor (Straight): Standard	40' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML4-10	Conveyor (Straight): Standard	39' - 1 7/8"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML4-11	Conveyor (Spiral Turn - Drop): 90° - 12" Drop	8' - 10"	6°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4
T3-ML4-12	Conveyor (Queue): Standard	4' - 6"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML4-13	Conveyor (Power Turn): 35°	3' - 5 1/4"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML4-14	Conveyor (Incline_LG): Standard	40' - 0"	0°	300			400	6.3	0	12889.8 Btu/h	1	DRC 4
T3-ML4-15	Conveyor (Incline_ANG): Standard	35' - 10 1/4"	16°	300			400	3.46	1	7079.2 Btu/h	1	PMM 4XT
T3-ML4-16	Conveyor (RBO - Incline): Standard	36' - 2"	16°	300			400	2.72	1	5565.1 Btu/h	1	PMM 4XT
T3-ML4-17	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML4-18	Conveyor (Straight): Standard	35' - 0"		300			400	3.46		7079.2 Btu/h	1	PMM 4XT
T3-ML4-19	Conveyor (Straight): Standard	19' - 11 1/4"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML4-20	Conveyor (Spiral Turn - Rise): 90° - 12" Rise	8' - 10"	6°	300			400	2.72	0	5565.1 Btu/h	1	PMM 4
T3-ML4-21	Conveyor (Straight): Standard	28' - 0 3/8"		300			400	2.72		5565.1 Btu/h	1	PMM 4
T3-ML4-22	Conveyor (Straight): Standard	20' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
T3-ML4-23	Conveyor (Straight): Standard	22' - 0"		300			200	1.52		3109.9 Btu/h	1	PMM 2
PANEL TOTALS		434' - 1"			6	30.3	6200	50.24	6		27	

MCP-T3-18												
CONVEYOR ID	we will	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
	MCP: MCP_30 Starters - 2 Bay					0						
T3-CD1	Device (Flat Plate Type T): Claim	243' - 2 5/8"		90	10	15.2				31099.2 Btu/h	2	Standard
T3-CD2	Device (Flat Plate Type T): Claim	202' - 0 5/8"		90	10	15.2				31099.2 Btu/h	2	Standard
T3-CD3	Device (Flat Plate Type T): Claim	202' - 0 5/8"		90	10	15.2				31099.2 Btu/h	2	Standard
T3-CD4	Device (Flat Plate Type T): Claim	207' - 8 1/4"		90	10	15.2				31099.2 Btu/h	2	Standard
T3-OS1-01	Conveyor (Ticketing): Oversize - Existing	6' - 6"		90			200	1.52		3109.9 Btu/h	1	DRC 4
T3-OS1-02	Conveyor (RBO - Decline): Oversize	24' - 1 5/8"	18°	90			200	0	1	0.0 Btu/h	1	PMM 2
T3-OS1-03	Conveyor (Power Turn): 90° Oversize	8' - 3 3/4"		120			400	2.72		5565.1 Btu/h	1	PMM 4
T3-OS1-04	Conveyor (Straight): Oversize	30' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-OS1-05	Conveyor (Straight): Oversize	11' - 5 3/8"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-OS1-06	Conveyor (RBO - Decline): Oversize	31' - 10 1/4"	18°	90			400	0	1	0.0 Btu/h	1	PMM 2
T3-OS1-07	Conveyor (Power Turn): 90° Oversize	8' - 3 3/4"		120			400	2.72		5565.1 Btu/h	1	PMM 4
T3-OS1-08	Conveyor (Queue): Oversize	6' - 0"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-OS1-11	Conveyor (Queue): Oversize - FEED	5' - 0"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-OS1-12	Conveyor (Queue): Oversize - FEED	5' - 0"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-OS1-13	Conveyor (Queue): Oversize - FEED	5' - 0"		90			200	1.52		3109.9 Btu/h	1	PMM 2
T3-OSN1-09	EDS (CT80 In-Feed): Standard	6' - 0"		90	1.5	3						
T3-OSN1-10	EDS (CT80 Out-Feed): Standard	6' - 0"		90	1.5	3						
T3-TXP1-01	Conveyor (Straight): Standard	25' - 0"		90			400	2.72		5565.1 Btu/h	1	PMM 4
T3-TXP1-02	Conveyor (RBO - Incline): Standard	25' - 2 1/2"	18°	120			400	6.3	1	12889.8 Btu/h	1	DRC 4
T3-TXP1-03	Conveyor (Power Turn): 45°	4' - 5"		150			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TXP1-04	Conveyor (Queue): Standard	3' - 6"		180			200	1.52		3109.9 Btu/h	1	PMM 2
T3-TXP1-05	Conveyor (Merge): 5'-0"	5' - 0"		210			400	3.46		7079.2 Btu/h	1	PMM 4XT
PANEL TOTALS		1071' - 8 3/8"			43	66.8	4600	32.8	3		24	

MCP A-32B												
CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE
MCP A-32B	MCP: MCP_45 Starters - 3 Bay					0						
O4-03	Conveyor (Straight): Existing	40' - 0"		240			400	3.46		7079.2 Btu/h	1	PMM 4XT
O4-03A	Conveyor (Straight): Existing	27' - 5 1/8"		240			400	2.72		5565.1 Btu/h	1	PMM 4
T5T-08	Conveyor (Power Turn): 45° - Existing	4' - 5"		240			200	1.52		3109.9 Btu/h	1	PMM 2
T5T-09	Conveyor (Decline_LG): Standard	39' - 6"	0°	240			400	6.3	0	12889.8 Btu/h	1	DRC 4
PANEL TOTALS		111' - 4 1/8"			0	0	1400	14	0		4	

NOTES:

1. THESE DRAWINGS ARE PROVIDED FOR INFORMATION ONLY. THEY ARE SUBMITTED TO DESCRIBE SCOPE OF WORK AND TO BE USED FOR PRICING ONLY.
2. THE CONTRACTOR MUST COORDINATE ALL PROTECTION AND INTERACTION WITH ANY OF THE TSA EQUIPMENT WITH THE LOCAL TSA MANAGER. TSA EQUIPMENT MUST BE PROPERLY PROTECTED PRIOR TO DEMOLITION AND CONSTRUCTION IN THE E3 MATRIX RESOLUTION ROOM. THE BHSC SHALL NOTIFY LOCAL TSA MANAGER PRIOR TO CONSTRUCTION AND TAKE SPECIAL CARE NOT TO DAMAGE ANY OF THE EQUIPMENT DURING CONSTRUCTION.
3. ALL HORSEPOWER HAS BEEN CALCULATED AT 480VAC/60hz.
4. ALL POWER CALCULATION BEING PROVIDED BY INTROBA ARE TO ASSIST IN DETERMINING APPROXIMATED POWER REQUIREMENTS. BHS POWER REQUIREMENTS AND PLANNING SHALL BE BASED ON THE LOADS THAT INCLUDE CONTINGENCY VALUE. PRIOR TO POWER BEING PULLED FROM THE POWER DISTRIBUTION PANEL, A COORDINATION MEETING SHALL BE HELD TO ENSURE NO DESIGN CHANGESHAVE OCCURRED AND THE APPROPRIATE VALUES HAVE BEEN ESTABLISHED.
5. THE POWER SUMMARY PROVIDED LOADS INCLUDE AN ADDITIONAL 25% TO THE MOTOR AMPS FOR CONTROL POWER AND CONTINGENCY.
6. CLAIM DEVICES AND MAKE-UP UNITS CONSIST OF MULTIPLE DRIVES. HP/FLA TOTAL REPRESENTS THE SUM OF THE 5HP DRIVES.
7. CTX AND EDS EQUIPMENT HEAT REJECTION LOADS ARE TYPICAL AND SHALL BE COORDINATED WITH THE MECHANICAL ENGINEERS.

POWER SUMMARY						
MCP	MOTOR COUNT	Brake Motor	FLA	FULL LOAD AMPS (CONTINGENCY)	NEC AMPERES	NEC (CONTINGENCY)
MCP A-32B	4	0	0	0	14	17.5
MCP T3-T6	1	0	0	0	1.52	1.9
MCP T3-01	13	3	3	3.75	26.18	32.725
MCP-T3-02	38	5	6	7.5	93.3	116.625
MCP-T3-03	26	3	10.1	12.625	68.88	86.1
MCP-T3-04	24	8	30.1	37.625	49.08	61.35
MCP-T3-05	27	0	30.1	37.625	62.94	78.675
MCP-T3-06	27	1	20.2	25.25	59.3	74.125
MCP-T3-07	23	0	30.3	37.875	37.16	46.45
MCP-T3-08	35	0	50.5	63.125	55.88	69.85
MCP-T3-09	35	0	50.5	63.125	58.1	72.625
MCP-T3-10	38	2	60.4	75.5	64.82	81.025
MCP-T3-11	40	1	60.4	75.5	59.46	74.325
MCP-T3-12	23	2	10.1	12.625	44.9	56.125
MCP-T3-13	27	1	10.1	12.625	51.26	64.075
MCP-T3-14	18	0	0	0	32.14	40.175
MCP-T3-15	37	7	30.3	37.875	71.92	89.9
MCP-T3-16	27	6	30.3	37.875	50.24	62.8
MCP-T3-18	24	3	66.8	83.5	32.8	41
TOTAL	487	42	499.2	624	933.88	1167.35

MCP T3-T6 EXISTING												
CONVEYOR ID	DESCRIPTION	CONVEYOR LENGTH	ANGLE	BELT SPEED (FPM)	HORSE POWER (HP)	FULL LOAD AMPS (FLA)	HORSE POWER (Nm)	NEC AMPERES	BRAKE MOTOR	HEAT LOAD FACTOR	MOTOR COUNT	MOTOR TYPE

POWER SUMMARY - EXISTING MCP						
MCP	MOTOR COUNT	Brake Motor	FLA	FULL LOAD AMPS (CONTINGENCY)	NEC AMPERES	NEC (CONTINGENCY)
MCP A-32B	4	0	0	0	14	17.5
MCP T3-T6	1	0	0	0	1.52	1.9
TOTAL	5	0	0	0	15.52	19.4

NOTE:
CONVEYORS HAVE NOT BEEN ASSIGNED TO A NEW MCP PANEL. BHS CONTRACTOR TO FIELD VERIFY EXISTING MCP PANELS AND ASSIGN THESE CONVEYORS TO THE MCP THAT COORDINATES WITH THE CONVEYOR BEING TIED INTO.

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

REVISION

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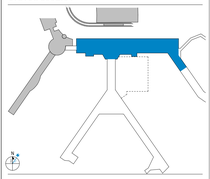
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01



CONVEYOR MANIFEST & POWER SUMMARY

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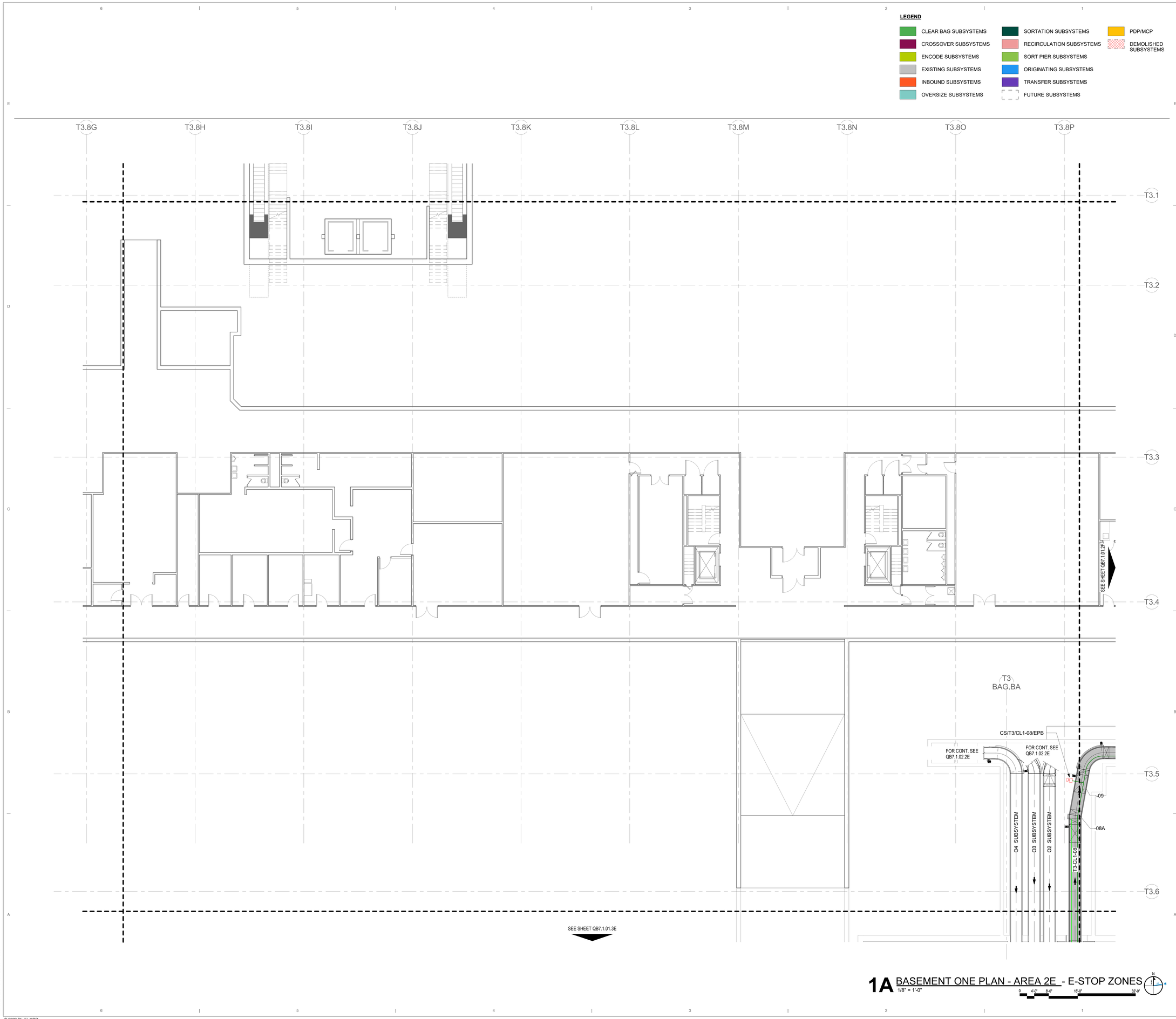

1A BASEMENT ONE PLAN - AREA 2E - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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2. E-STOP INTERLOCKS BETWEEN "NEW" AND "EXISTING" MCP's ARE A REQUIREMENT OF THE CONTRACTOR AND ARE TO BE INTEGRATED WITH EXISTING E-STOP SAFETY SCHEMATIC.

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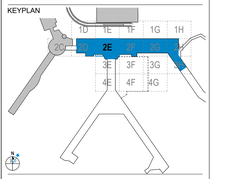

BASEMENT ONE PLAN - AREA 2E - E-STOP ZONES

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0 4'-0" 8'-0" 16'-0" 32'-0"

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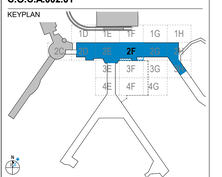

BASEMENT ONE PLAN - AREA 2F - E-STOP ZONES

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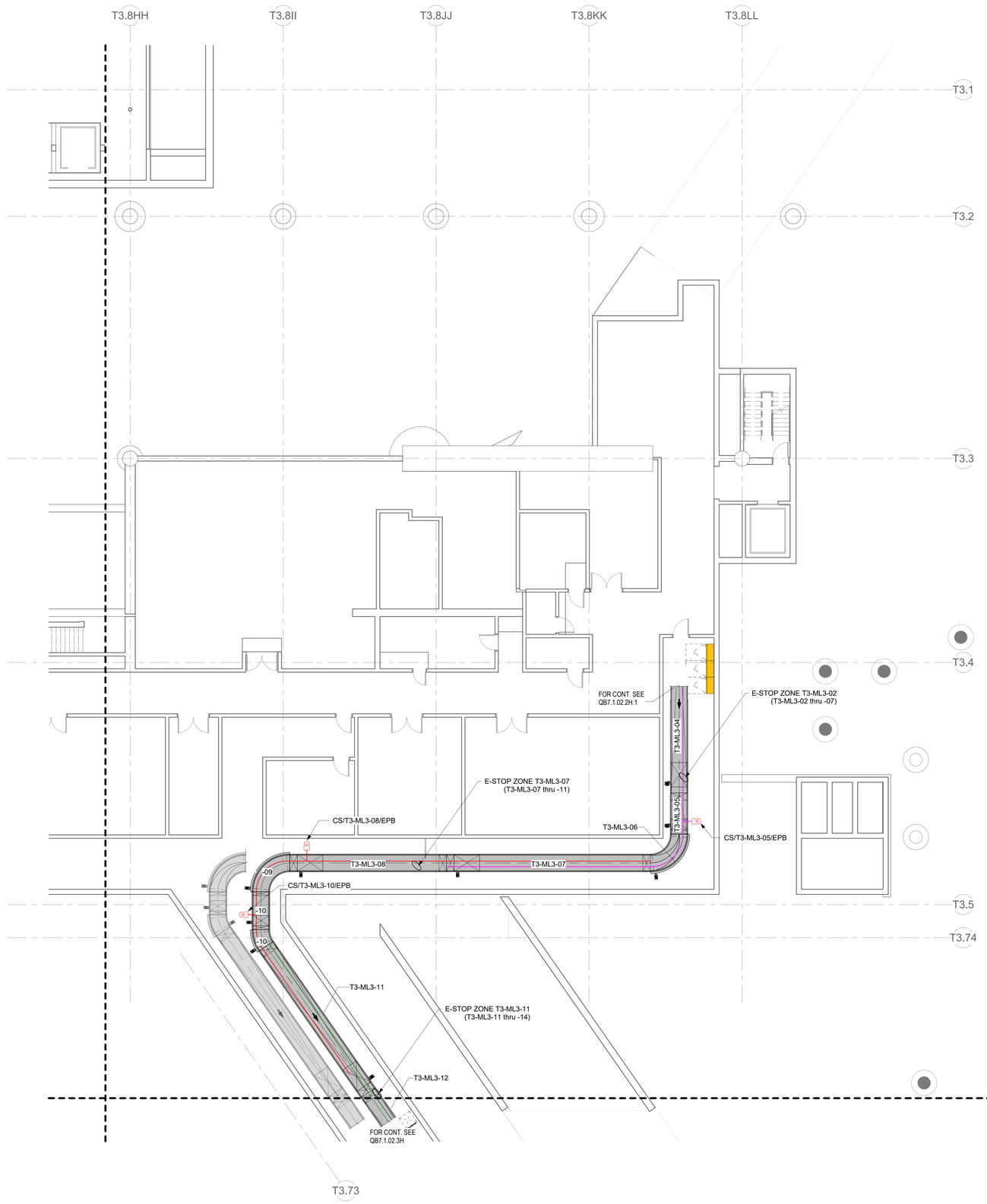
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A BASEMENT ONE PLAN - AREA 2H LOWER - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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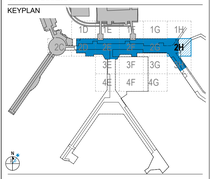

BASEMENT ONE PLAN - AREA 2H - E-STOP ZONES

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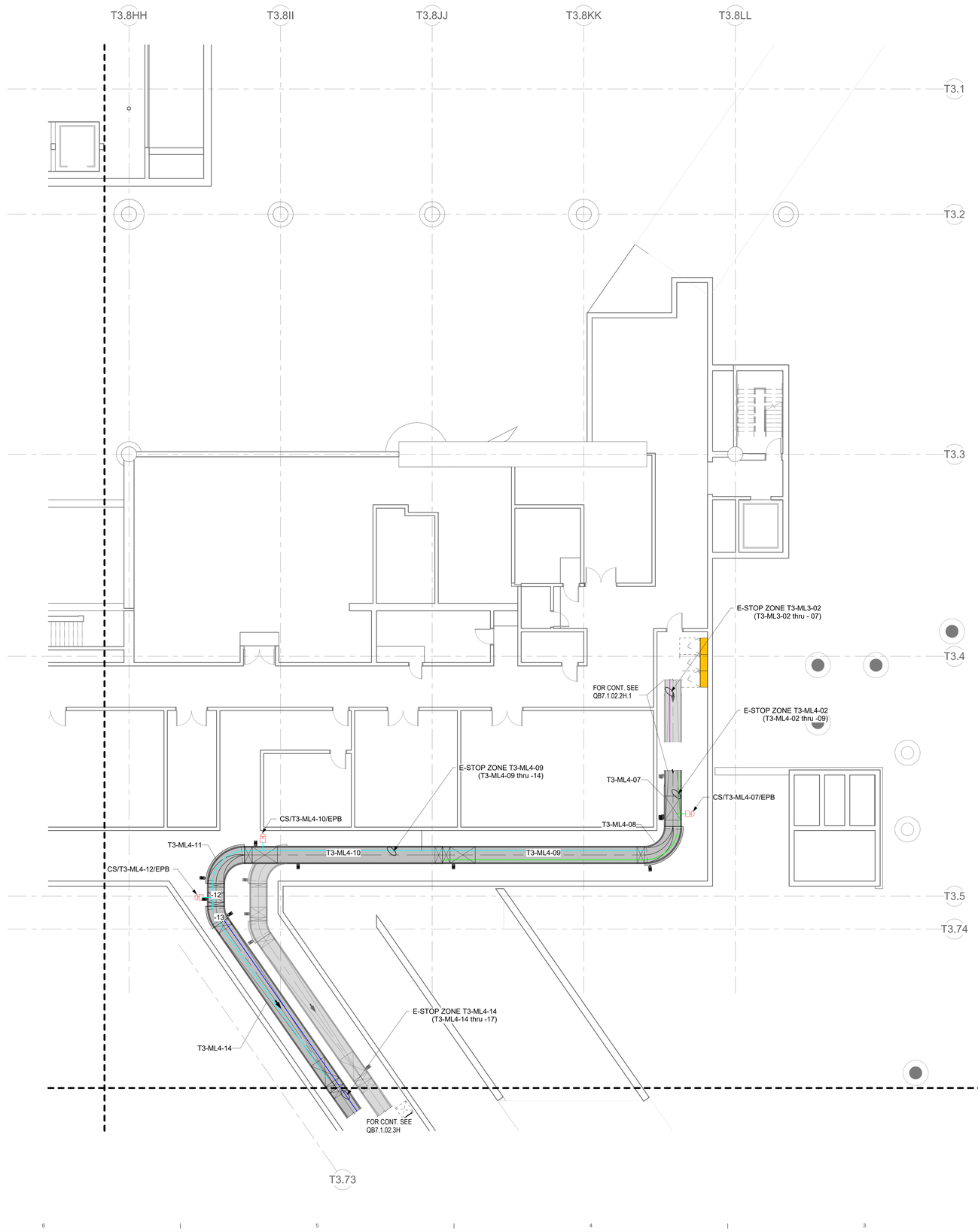

LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
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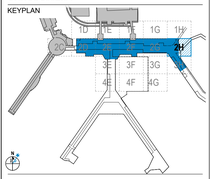
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



BASEMENT ONE PLAN - AREA 2H UPPER - E-STOP ZONES

DRAWN BY: **Author**
CHECKED BY: **Checker**
SHEET NUMBER: **QB7.1.01.2H.2**
VOLUME:

1A BASEMENT ONE PLAN - AREA 2H UPPER - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 11:07:05 AM

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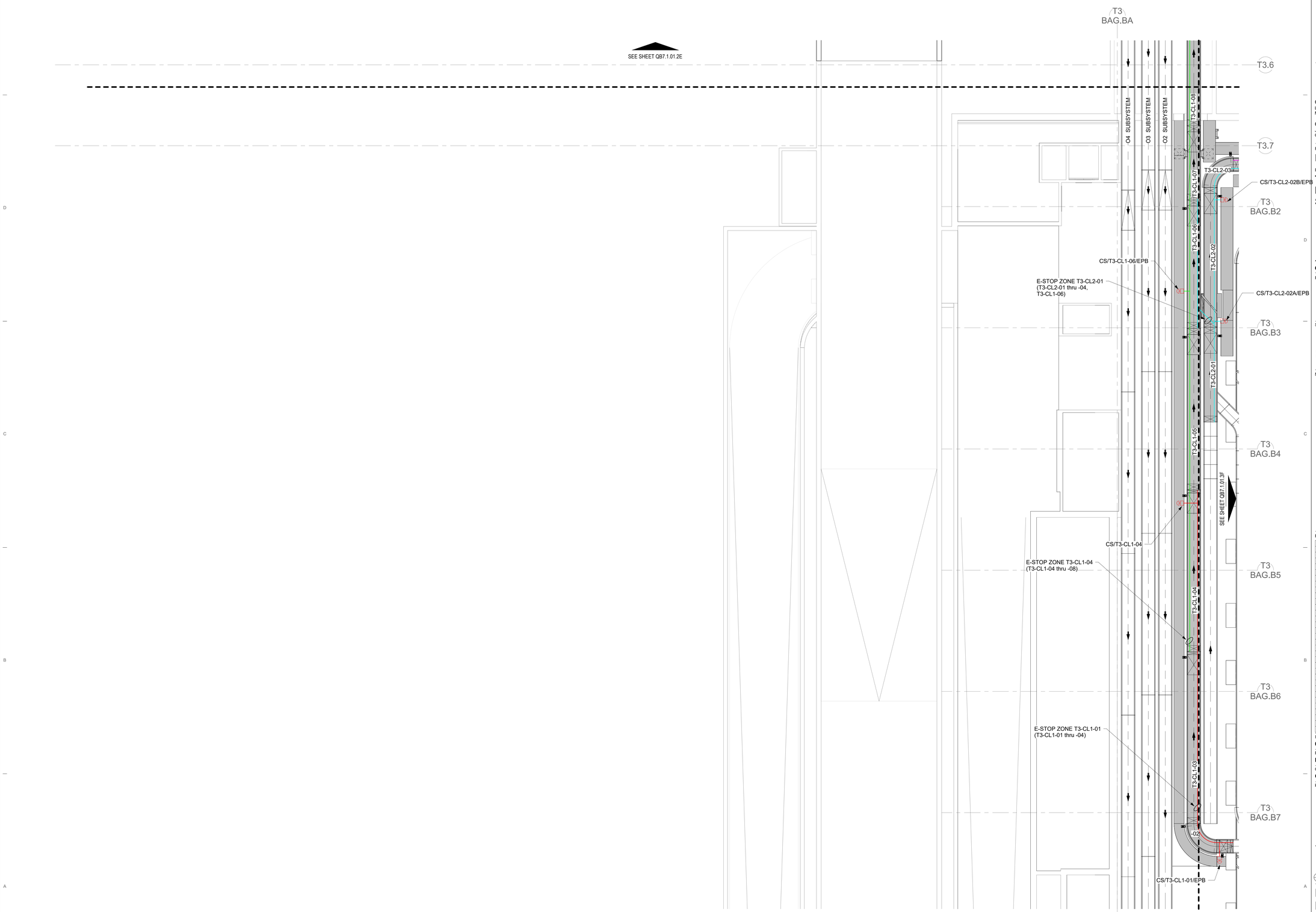
LEGEND

CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	



1A BASEMENT ONE PLAN - AREA 3E - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

NOTES:

1. THE BHSC SHALL FIELD VERIFY THE SYSTEM & ALL RIGHT OF WAYS PRIOR TO ENGINEERING, DESIGN, FABRICATION, AND/OR ANY INSTALLATION.
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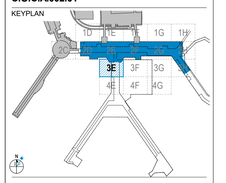
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



BASEMENT ONE PLAN - AREA 3E - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER: **QB7.1.01.3E** VOLUME:

3/20/2023 11:07:10 AM

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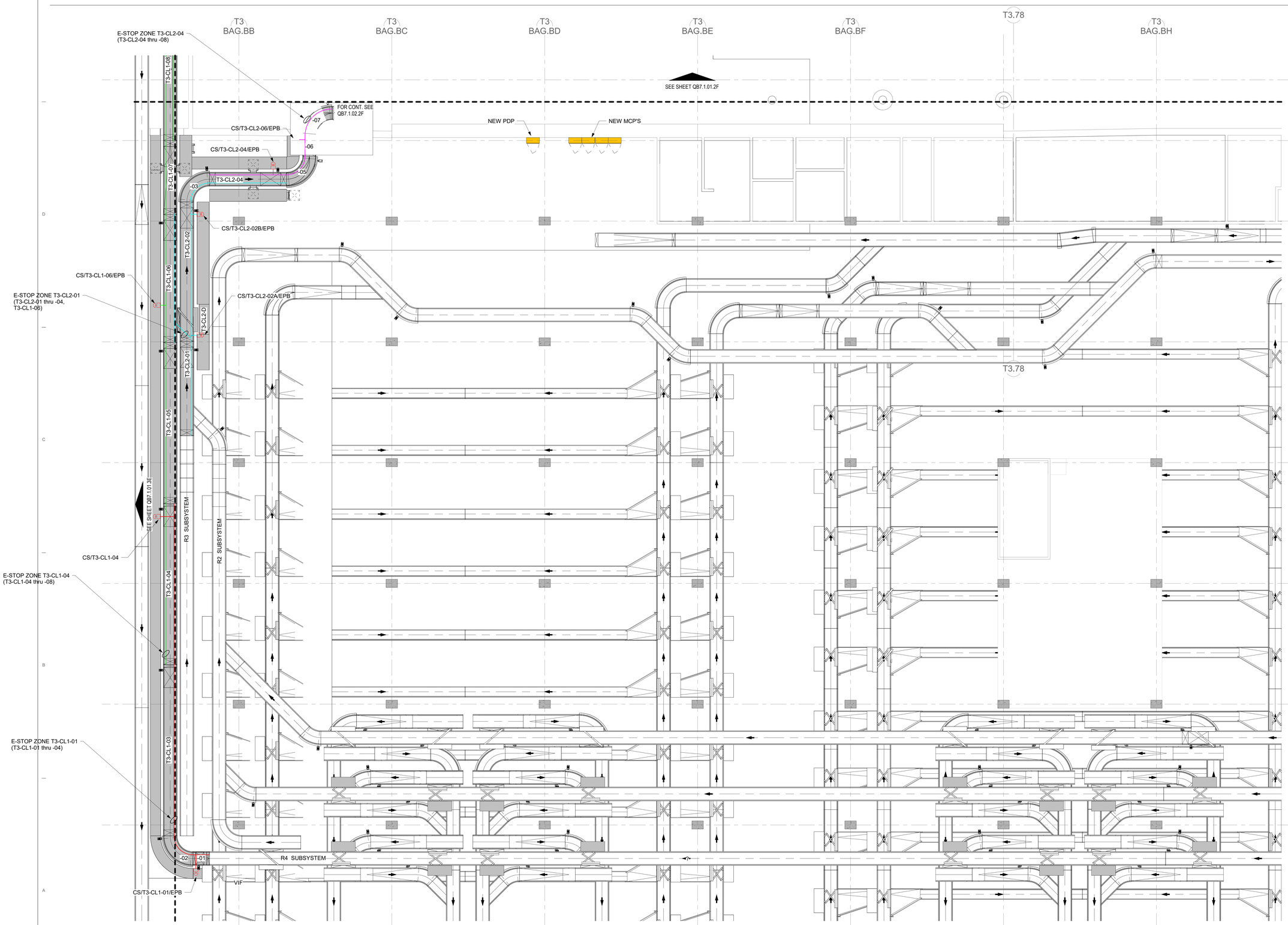
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

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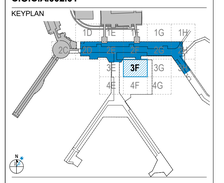
PHASE: **DD**
REVISION
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



BASEMENT ONE PLAN - AREA 3F - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER: **QB7.1.01.3F** VOLUME:

1A BASEMENT ONE PLAN - AREA 3F - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 11:07:19 AM

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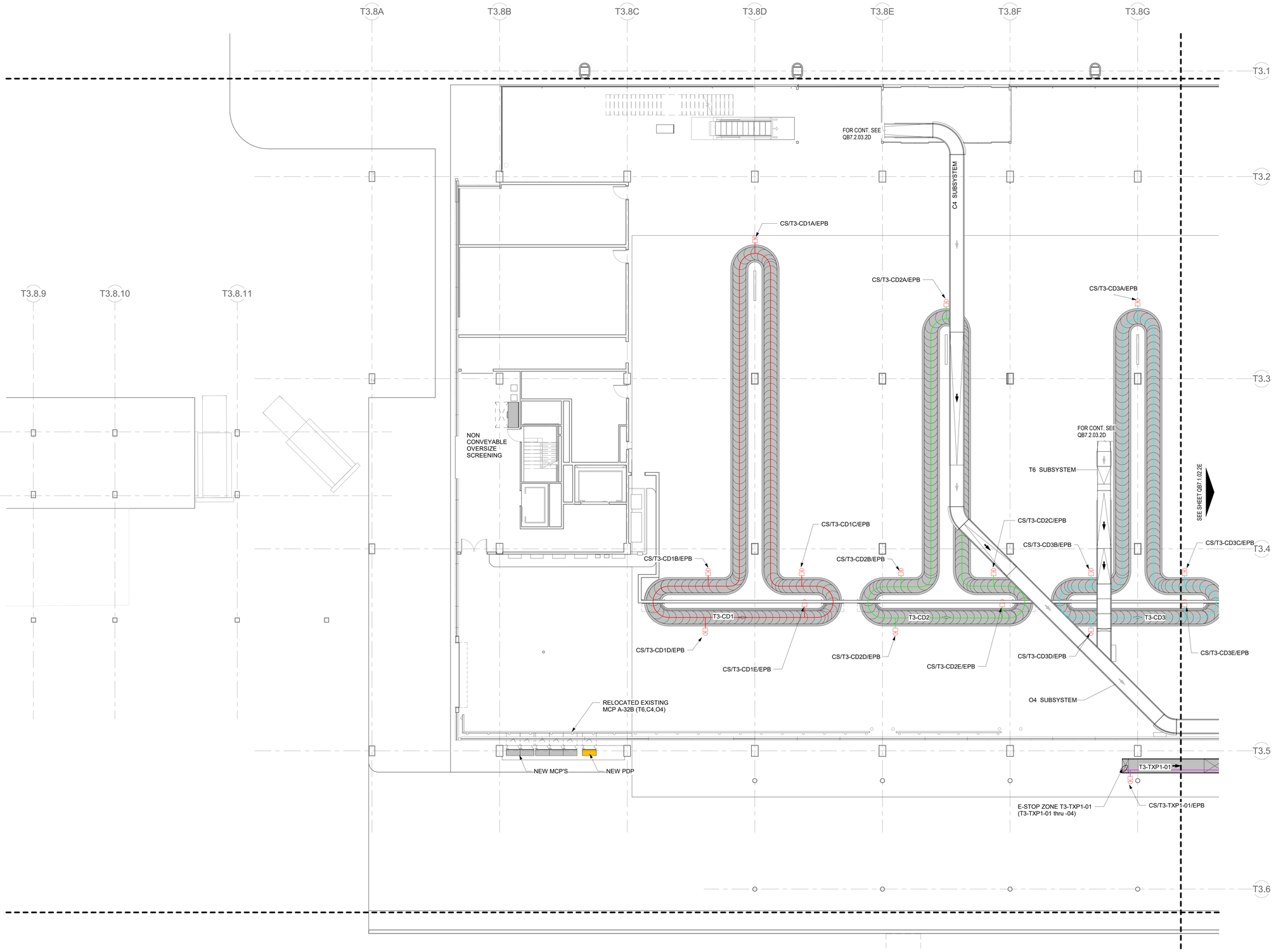
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A LOWER LEVEL PLAN - AREA 2D - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
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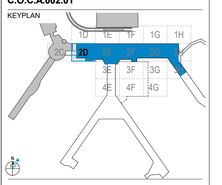
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **50% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL PLAN - AREA 2D - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER
QB7.1.02.2D
VOLUME:

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LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS

T3.8G T3.8H T3.8I T3.8J T3.8K T3.8L T3.8M T3.8N T3.8O T3.8P

T3.1 T3.2 T3.3 T3.4 T3.5 T3.6

CS/T3-OS1-02/EPB
FOR CONT. SEE QB7.2.03.2E
T3-OS1-03
E-STOP ZONE T3-OS1-01 (T3-OS1-01 thru -05)
T3-OS1-04
T3-OS1-05
CS/T3-CD4A/EPB
T3-OS1-06
CS/T3-OS1-06/EPB
FOR CONT. SEE QB2.2.03.2E
E-STOP ZONE T3-OS1-05 (T3-OS1-05 thru -09)
CS/T3-OS1-09/EPB
CS/T3-OS1-10/EPB
-09 -10 -11 -12 -13
T3-OS1-07
E-STOP ZONE T3-OS1-10 (T3-OS1-10 thru -13)
SEE SHEET QB7.1.02.2D
SEE SHEET QB7.1.02.2F
CS/T3-CD4B/EPB
T3-CD3 SUBSYSTEM
CS/T3-CD4C/EPB
T3-CD5 SUBSYSTEM
T3-CD4 SUBSYSTEM
CS/T3-CD4D/EPB
CS/T3-CD4E/EPB
T5-07
C2 SUBSYSTEM
CS/T3-T5T-09/EPB
E-STOP ZONE T3-O4-03 (T3-TXP1-04 & -05, T3-O4-03 & -03A)
T5T-09
T5T-08
O3 SUBSYSTEM
FOR CONT. SEE QB7.1.01.2E
O4-03 O4-03A
CS/T3-TXP1-05/EPB
-04 -03
T3-TXP1-01 T3-TXP1-02
T3-TXP1-05
CS/T3-TXP1-02/EPB
O2 SUBSYSTEM
E-STOP ZONE T3-TXP1-01 (T3-TXP1-01 thru -04)
T3 BAG.BA
SEE SHEET ---

1A LOWER LEVEL PLAN - AREA 2E - E-STOP ZONES
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0" 32'-0"

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ISSUANCE **60% DESIGN**
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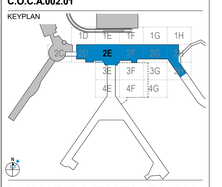
PHASE **DD**
REVISION
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL PLAN - AREA 2E - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER **QB7.1.02.2E** VOLUME:

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LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
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- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS

T3.8P T3.8Q T3.8R T3.8S T3.8T T3.8U T3.8V T3.8W T3.8X T3.8Y

T3.1 T3.2 T3.3 T3.4 T3.5 T3.74 T3.6

SEE SHEET QB7.1.02.2E

SEE SHEET QB7.1.02.2G1

FOR CONT. SEE QB7.1.01.3F

O2 SUBSYSTEM

C2 SUBSYSTEM

T1 SUBSYSTEM

E-STOP ZONE T3-CS1-17 (T3-CS1-15 thru -18)

CS/T3-CS1-19/EPB

E-STOP ZONE T3-CS1-20 (T3-CS1-18 thru -22)

T3-CS1-19 T3-CS1-18 T3-CS1-21 T3-CS1-22

T3-ML1-12 T3-ML1-11 T3-ML1-10 T3-ML1-09 T3-ML1-08 T3-ML1-07

E-STOP ZONE T3-ML1-08 (T3-ML1-08 thru -12, T3-RC1-24 & -25)

E-STOP ZONE T3-ML1-05 (T3-ML1-05 thru -08, T3-XO2-01 thru -06)

CS/T3-ML1-06B/EPB

CS/T3-ML1-02/EPB

SD/T3-XO2

T3-ML1-04 T3-ML1-05 T3-ML1-06

CS/T3-ML1-06A/EPB

T3-XO1-06

CS/T3-XO1-04/EPB

CS/T3-XO2-03/EPB

CS/T3-XO2-05/EPB

CS/T3-XO2-07/EPB

T3-XO2-07

CS/T3-XO1-01/EPB

CS/T3-CL1-17/EPB

SD/T3-XO1

T3-ML2-09 T3-ML2-10 T3-ML2-11 T3-ML2-12

CS/T3-ML2-10/EPB

E-STOP ZONE T3-ML2-11 (T3-ML2-11 thru -13, T3-XO2-06 & -07)

E-STOP ZONE T3-ML2-05 (T3-ML2-05 thru -11, T3-XO1-01 thru -05)

CS/T3-CS1-22/EPB

E-STOP ZONE T3-CS1-22 (T3-CS1-22 thru -29)

T3-CS1-24

E-STOP ZONE T3-CL1-16 (T3-CL1-16 thru -19, T3-ML1-01 thru -05, XO1-05 & -06)

CS/T3-CS1-28/EPB

SA/T3-ML1

T3-CL1-17

E-STOP ZONE T3-CL1-08 (T3-CL1-08 thru -13)

E-STOP ZONE T3-CL1-13 (T3-CL1-13 thru -16, T3-TXD1-04 & -05)

CS/T3-CL1-13/EPB

CS/T3-TXD1-05/EPB

CS/T3-CL1-15/EPB

T3-CL1-12 T3-CL1-13 T3-CL1-14 T3-CL1-15

T3-CL1-11

T3-TXD1-01 T3-TXD1-02

CS/T3-TXD1-01/EPB

CS/T3-TXD1-02/EPB

CS/T3-ML2-06/EPB

T3-ML2-06

E-STOP ZONE T3-CL2-08 (T3-CL2-08 thru -10, T3-ML2-01 thru -05)

CS/T3-ML2-05/EPB

T3-ML2-05

CS/T3-ML2-03/EPB

E-STOP ZONE T3-CL2-04 (T3-CL2-04 thru -08)

T3-CL2-10 SA/T3-ML2

T3-CL2-08 T3-ML2-02 T3-ML2-03

T3-ML2-01

1A LOWER LEVEL PLAN - AREA 2F - E-STOP ZONES

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
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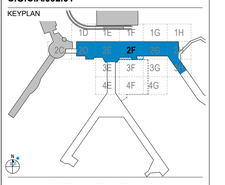
KEYPLAN



LOWER LEVEL PLAN - AREA 2F - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER VOLUME:
QB7.1.02.2F

LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS

T3.8Y T3.8Z T3.8AA T3.8BB T3.8CC T3.8DD T3.8EE T3.8FF T3.8GG T3.8HH

T3.1 T3.2 T3.3 T3.4 T3.5 T3.74 T3.6

UP

SEE SHEET QB7.1.02.2F

SEE SHEET QB7.1.02.2F

3A SIM

E-STOP ZONE T3-ML1-17 (T3-ML1-17 thru -19, T3-SP3-01 thru -03, T3-SP2-01 thru -03)

E-STOP ZONE T3-ML1-17 (T3-ML1-17 thru -19, T3-SP3-01 thru -03, T3-SP2-01 thru -03)

E-STOP ZONE T3-ML1-19 (T3-ML1-19 thru -21, T3-SP6-01 thru -03, T3-SP7-01 thru -03)

E-STOP ZONE T3-ML1-19 (T3-ML1-19 thru -21, T3-SP6-01 thru -03, T3-SP7-01 thru -03)

E-STOP ZONE T3-ML1-21 (T3-ML2-21 thru -23, T3-SP10-01 thru -03, T3-SP11-01 thru -03)

E-STOP ZONE T3-ML1-21 (T3-ML2-21 thru -23, T3-SP10-01 thru -03, T3-SP11-01 thru -03)

E-STOP ZONE T3-ML1-23 (T3-ML2-23 thru -25, T3-SP14-01 thru -03, T3-SP15-01 thru -03)

CS/T3-SP1-03/EPB
CS/T3-SP4-03/EPB
CS/T3-SP5-03/EPB
CS/T3-SP8-03/EPB
CS/T3-SP9-03/EPB
CS/T3-SP12-03/EPB
CS/T3-SP13-03/EPB
CS/T3-SP2-01/EPB
CS/T3-SP3-01/EPB
CS/T3-SP6-01/EPB
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CS/T3-SP11-03/EPB
CS/T3-SP10-03/EPB

T3-SP1-03 T3-SP1-02 T3-SP1-01 T3-SP2-03 T3-SP2-02 T3-SP2-01 T3-SP3-03 T3-SP3-02 T3-SP3-01 T3-SP4-03 T3-SP4-02 T3-SP4-01 T3-SP5-03 T3-SP5-02 T3-SP5-01 T3-SP6-03 T3-SP6-02 T3-SP6-01 T3-SP7-03 T3-SP7-02 T3-SP7-01 T3-SP8-03 T3-SP8-02 T3-SP8-01 T3-SP9-03 T3-SP9-02 T3-SP9-01 T3-SP10-03 T3-SP10-02 T3-SP10-01 T3-SP11-03 T3-SP11-02 T3-SP11-01 T3-SP12-03 T3-SP12-02 T3-SP12-01 T3-SP13-03 T3-SP13-02 T3-SP13-01 T3-SP14-03 T3-SP14-02 T3-SP14-01

SEE SHEET QB7.1.02.2G.1 T3-SP14-02

E-STOP ZONE T3-ML2-13 (T3-ML2-13 thru -19, T3-RC2-18 & -19 T3-SP1-01 thru -03, T3-SP4-01 thru -03)

E-STOP ZONE T3-ML2-13 (T3-ML2-13 thru -19, T3-RC2-18 & -19 T3-SP1-01 thru -03, T3-SP4-01 thru -03)

E-STOP ZONE T3-ML2-19 (T3-ML2-19 thru -21, T3-SP5-01 thru -03, T3-SP8-01 thru -03)

E-STOP ZONE T3-ML2-19 (T3-ML2-19 thru -21, T3-SP5-01 thru -03, T3-SP8-01 thru -03)

E-STOP ZONE T3-ML2-21 (T3-ML2-21 thru -23, T3-SP9-01 thru -03, T3-SP12-01 thru -03)

E-STOP ZONE T3-ML2-21 (T3-ML2-21 thru -23, T3-SP9-01 thru -03, T3-SP12-01 thru -03)

E-STOP ZONE T3-ML2-23 (T3-ML2-23 thru -25, T3-SP13-01 thru -03, T3-SP16-01 thru -03)

T3 BAG.BI

T3 BAG.BJ

1A LOWER LEVEL PLAN - AREA 2G - LOWER - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

NOTES:

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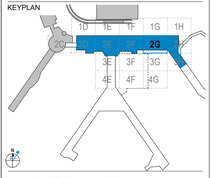
REVISION

NO.	DATE	DESCRIPTION

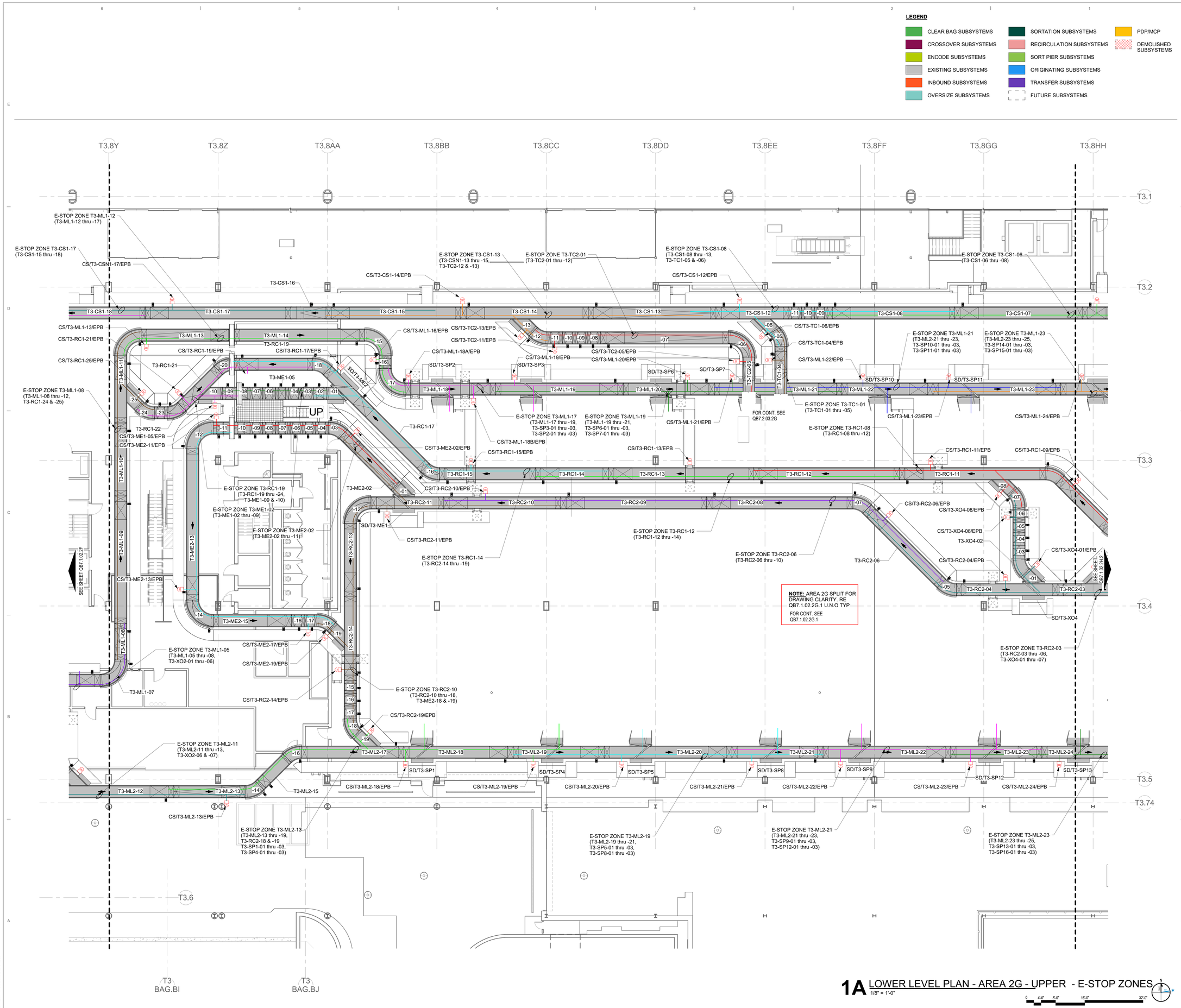
ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL PLAN - AREA 2G - LOWER - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER: **QB7.1.02.2G.1** VOLUME:



1A LOWER LEVEL PLAN - AREA 2G - UPPER - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
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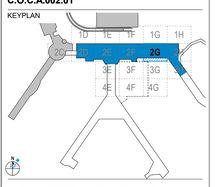
PHASE
DD

REVISION

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



LOWER LEVEL PLAN - AREA 2G - UPPER - E-STOP ZONES

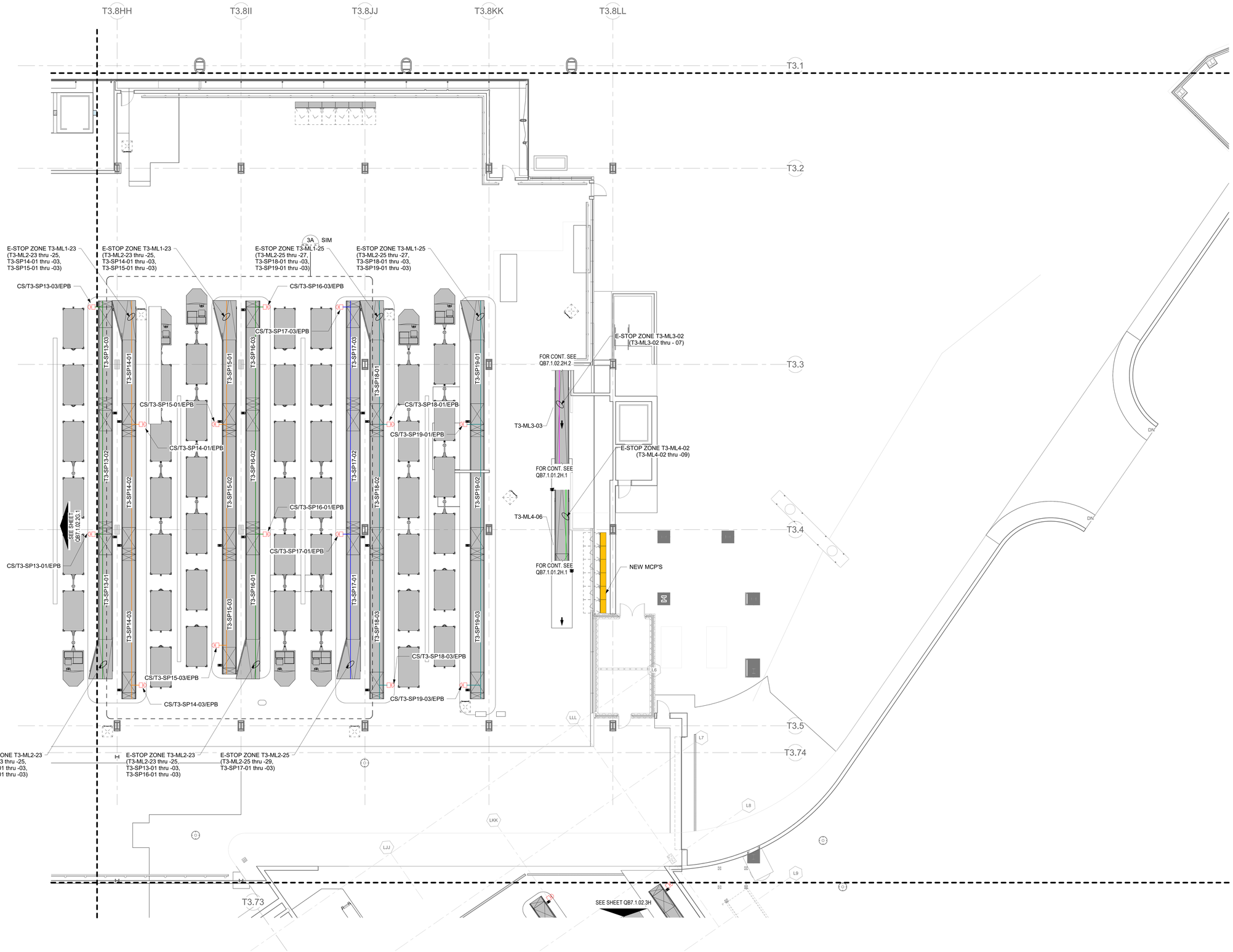
DRAWN BY: **Author**
CHECKED BY: **Checker**

SHEET NUMBER
QB7.1.02.2G.2

VOLUME:

LEGEND

CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	



1A LOWER LEVEL PLAN - AREA 2H - LOWER - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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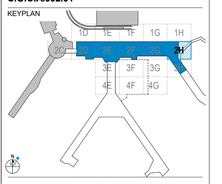
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN** — PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD** — REVISION
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN

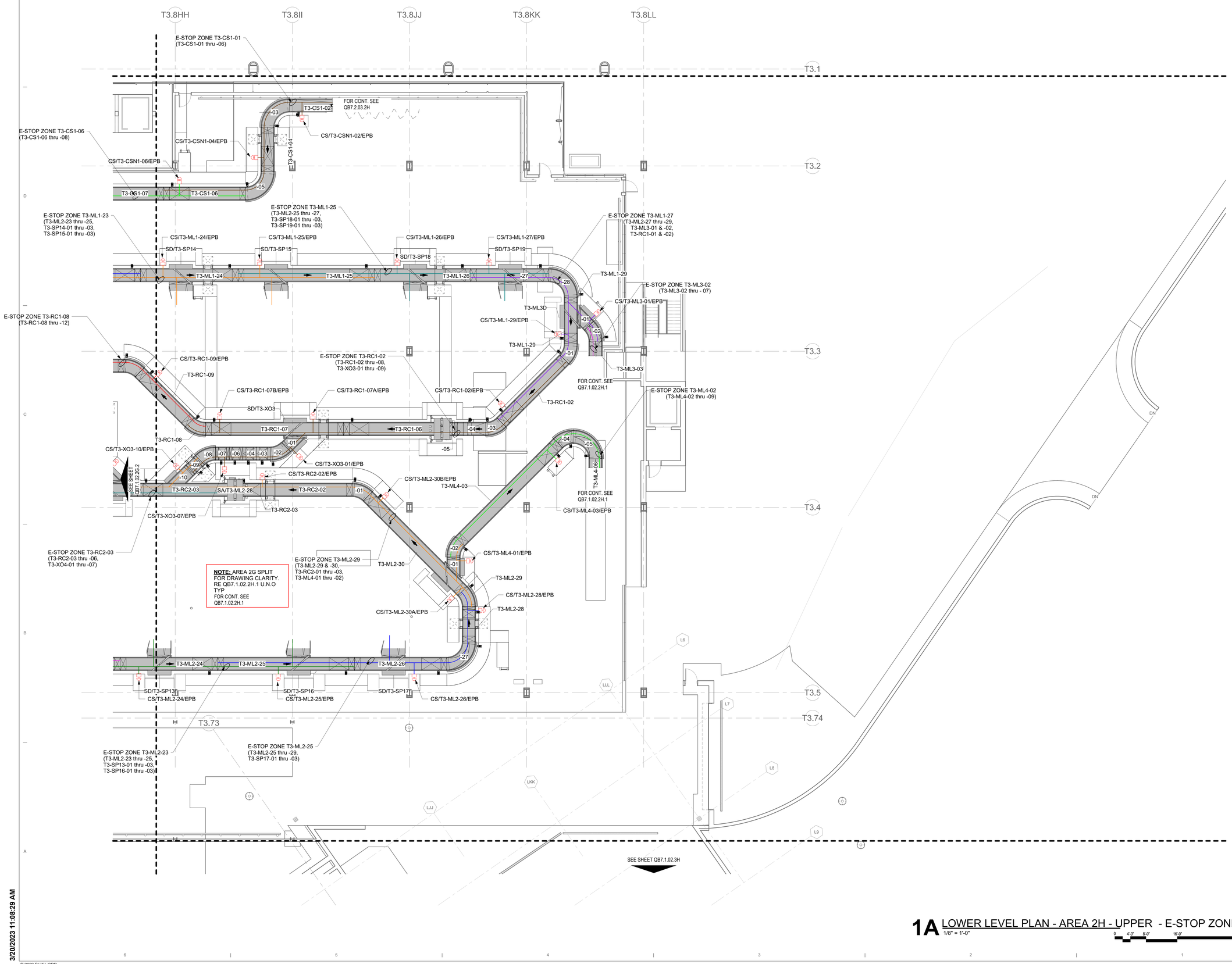


LOWER LEVEL PLAN - AREA 2H - LOWER - E-STOP ZONES

DRAWN BY: **Author** — CHECKED BY: **Checker**
SHEET NUMBER — VOLUME:
QB7.1.02.2H.1

LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



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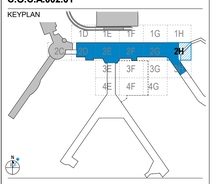
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL PLAN - AREA 2H - UPPER - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER: **QB7.1.02.2H.2**
VOLUME:

1A LOWER LEVEL PLAN - AREA 2H - UPPER - E-STOP ZONES
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 11:08:29 AM

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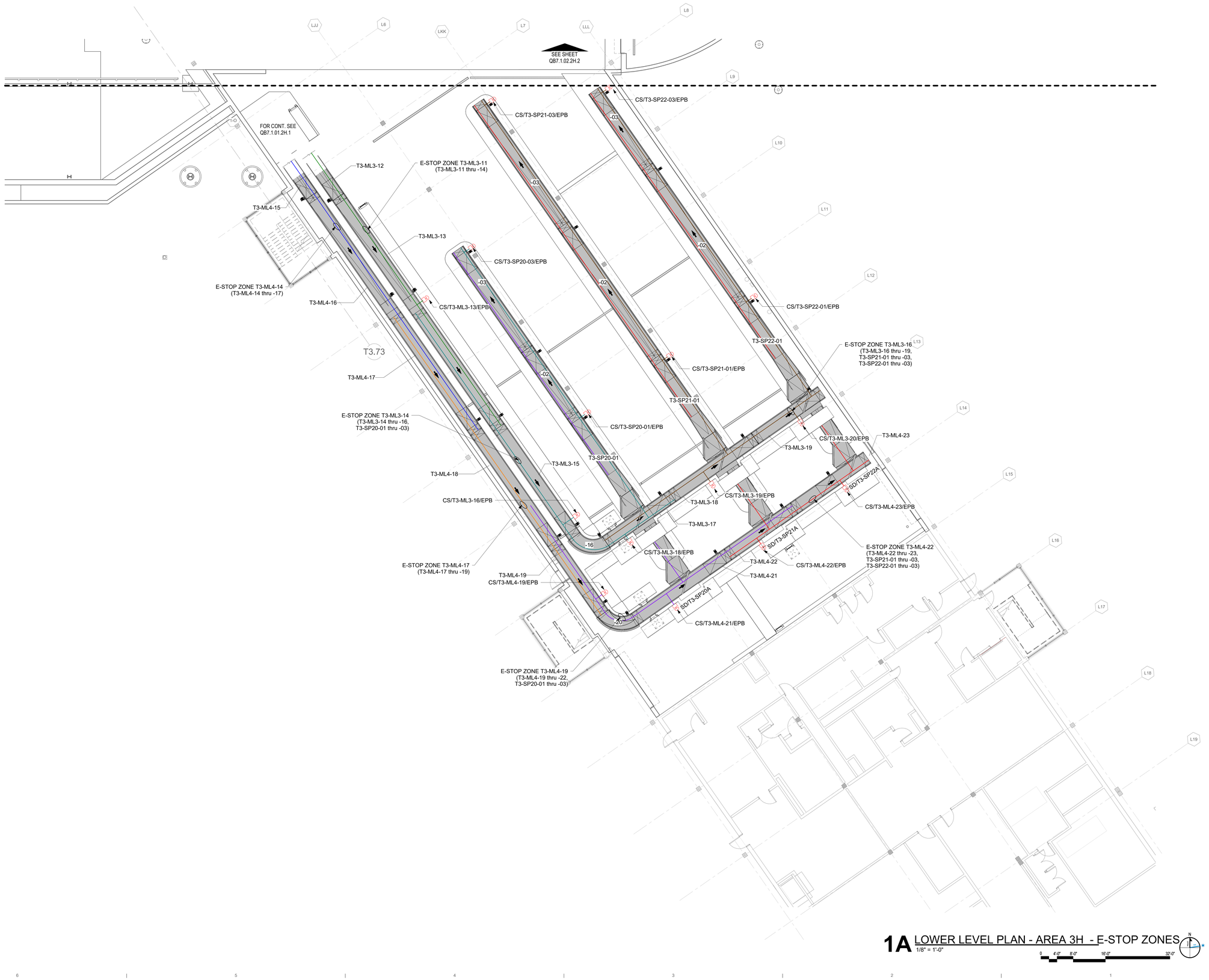
LEGEND

CLEAR BAG SUBSYSTEMS	SORTATION SUBSYSTEMS	PDP/MCP
CROSSOVER SUBSYSTEMS	RECIRCULATION SUBSYSTEMS	DEMOLISHED SUBSYSTEMS
ENCODE SUBSYSTEMS	SORT PIER SUBSYSTEMS	
EXISTING SUBSYSTEMS	ORIGINATING SUBSYSTEMS	
INBOUND SUBSYSTEMS	TRANSFER SUBSYSTEMS	
OVERSIZE SUBSYSTEMS	FUTURE SUBSYSTEMS	



1A LOWER LEVEL PLAN - AREA 3H - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

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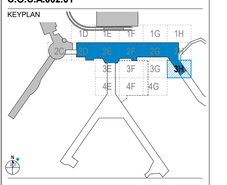
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



LOWER LEVEL PLAN - AREA 3H - E-STOP ZONES

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SHEET NUMBER VOLUME:
QB7.1.02.3H

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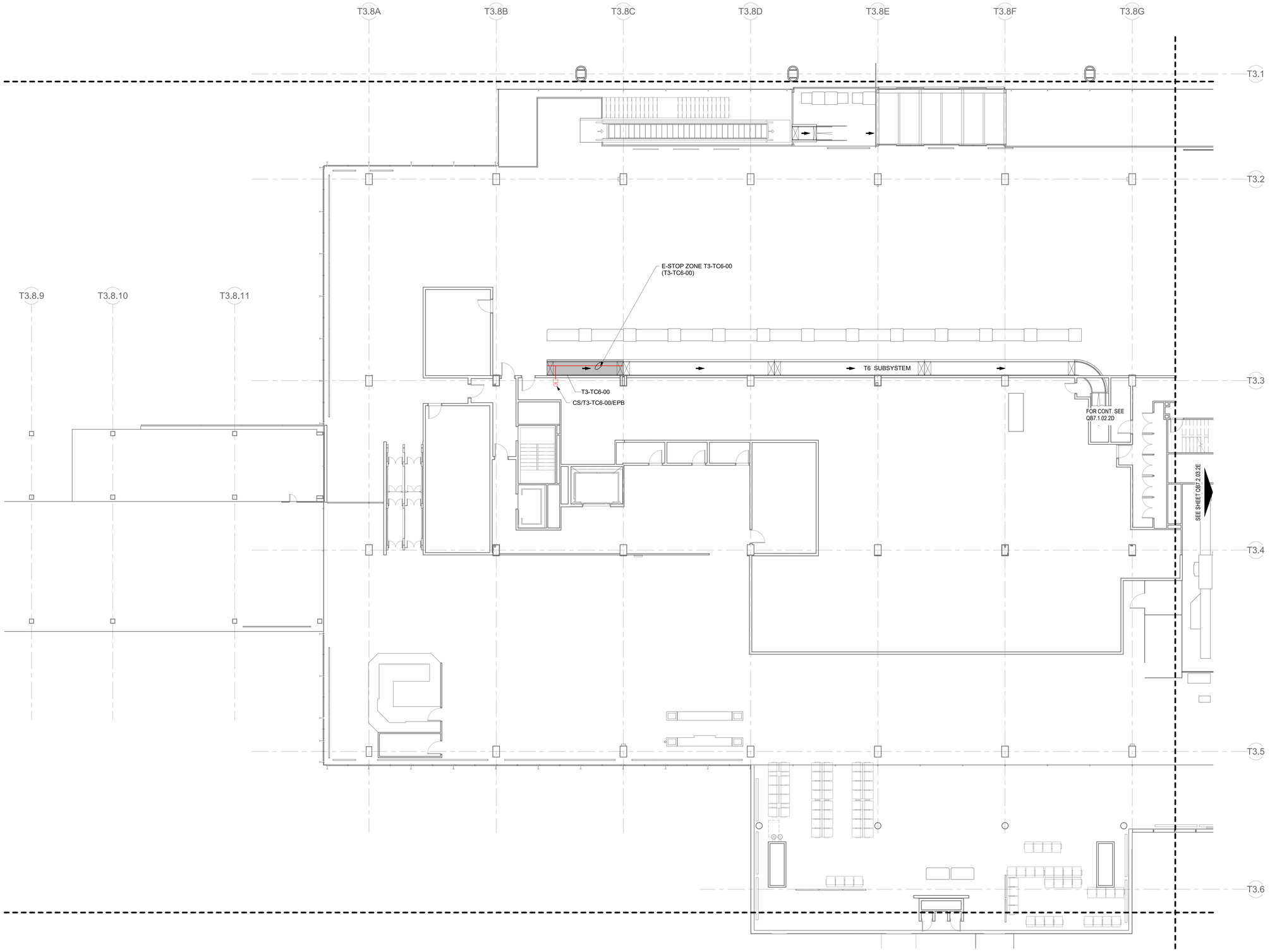
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A UPPER LEVEL PLAN - AREA 2D - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

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10000 W. O'HARE AVE.
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PRIME CONSULTANT
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Studio Gang | SCB | Corgan | Milhouse | STLarchitects

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Irving, TX 75063

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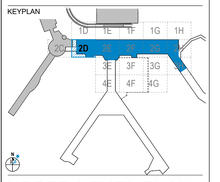
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



UPPER LEVEL PLAN - AREA 2D - E-STOP ZONES

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SHEET NUMBER **QB7.2.03.2D** VOLUME:

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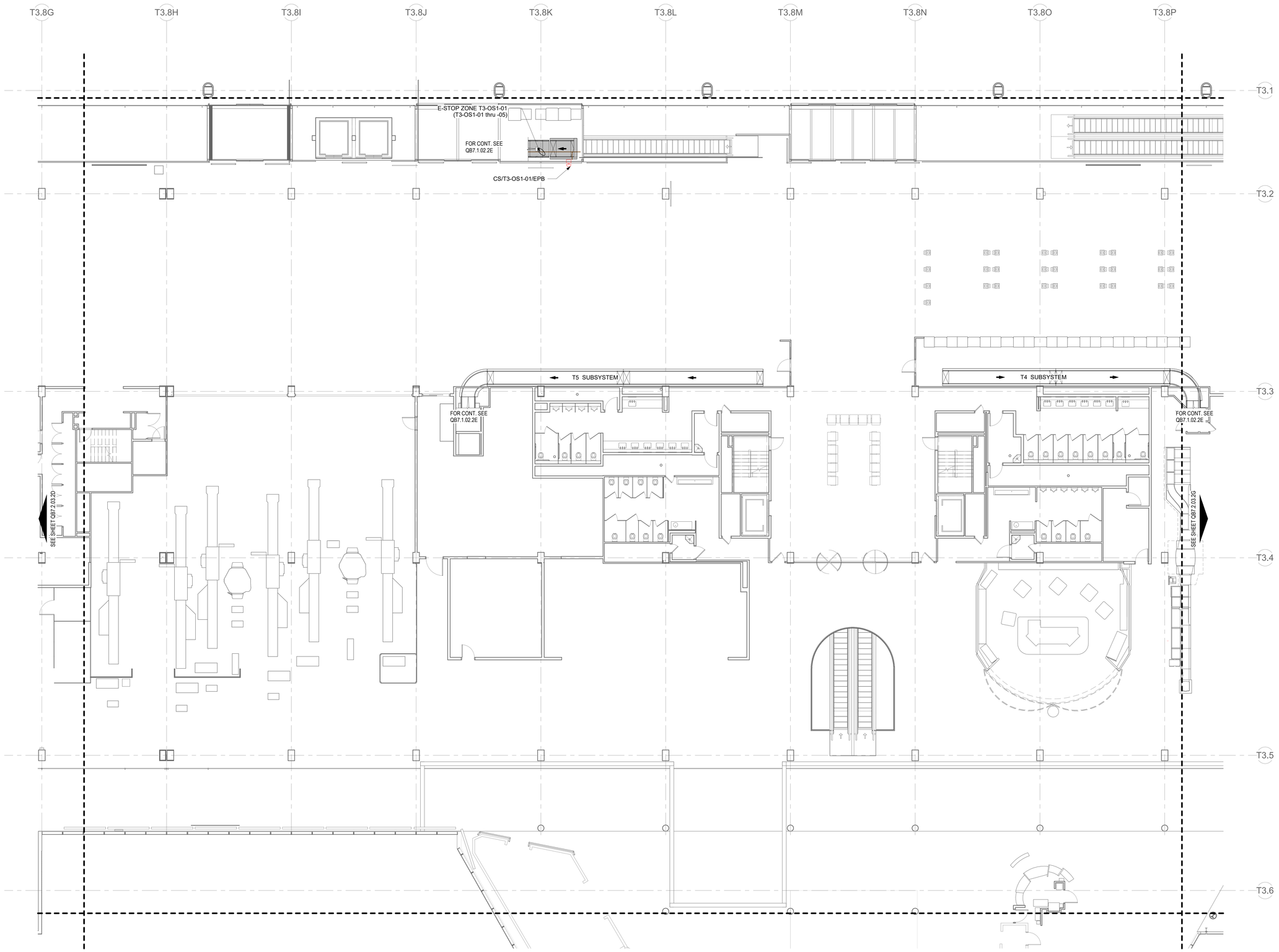
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A UPPER LEVEL PLAN - AREA 2E - E-STOP ZONES
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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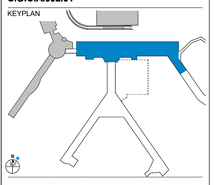
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



UPPER LEVEL PLAN - AREA 2E - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER: **QB7.2.03.2E** VOLUME:

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LEGEND

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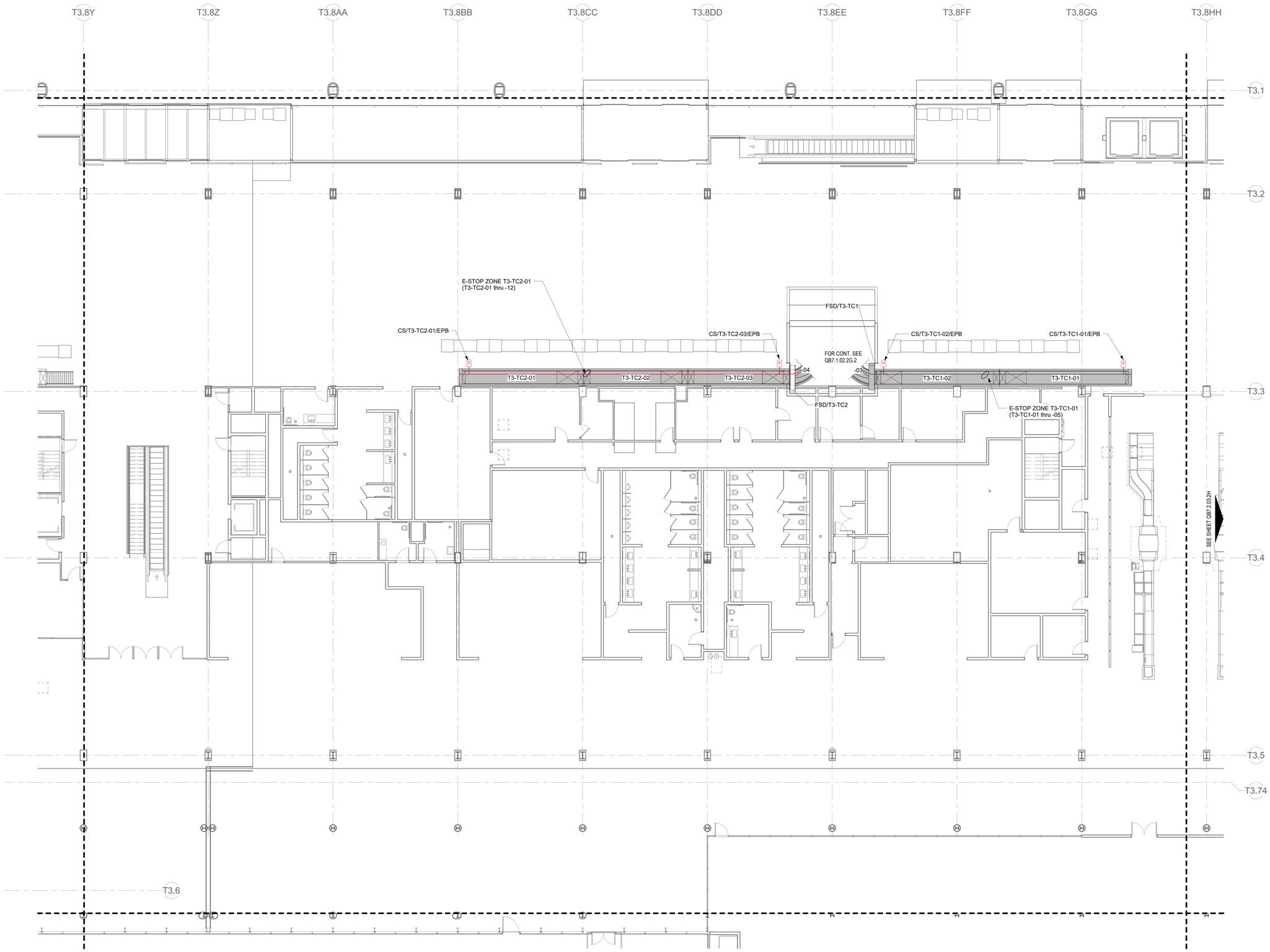
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A UPPER LEVEL PLAN - AREA 2G - E-STOP ZONES
1/8" = 1'-0"

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REVISION

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ISSUANCE: **60% DESIGN**
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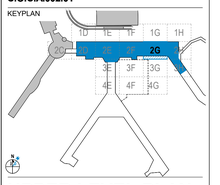
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



UPPER LEVEL PLAN - AREA 2G - E-STOP ZONES

DRAWN BY: **Author**
CHECKED BY: **Checker**
SHEET NUMBER
QB7.2.03.2G
VOLUME:

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LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
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- EXISTING SUBSYSTEMS
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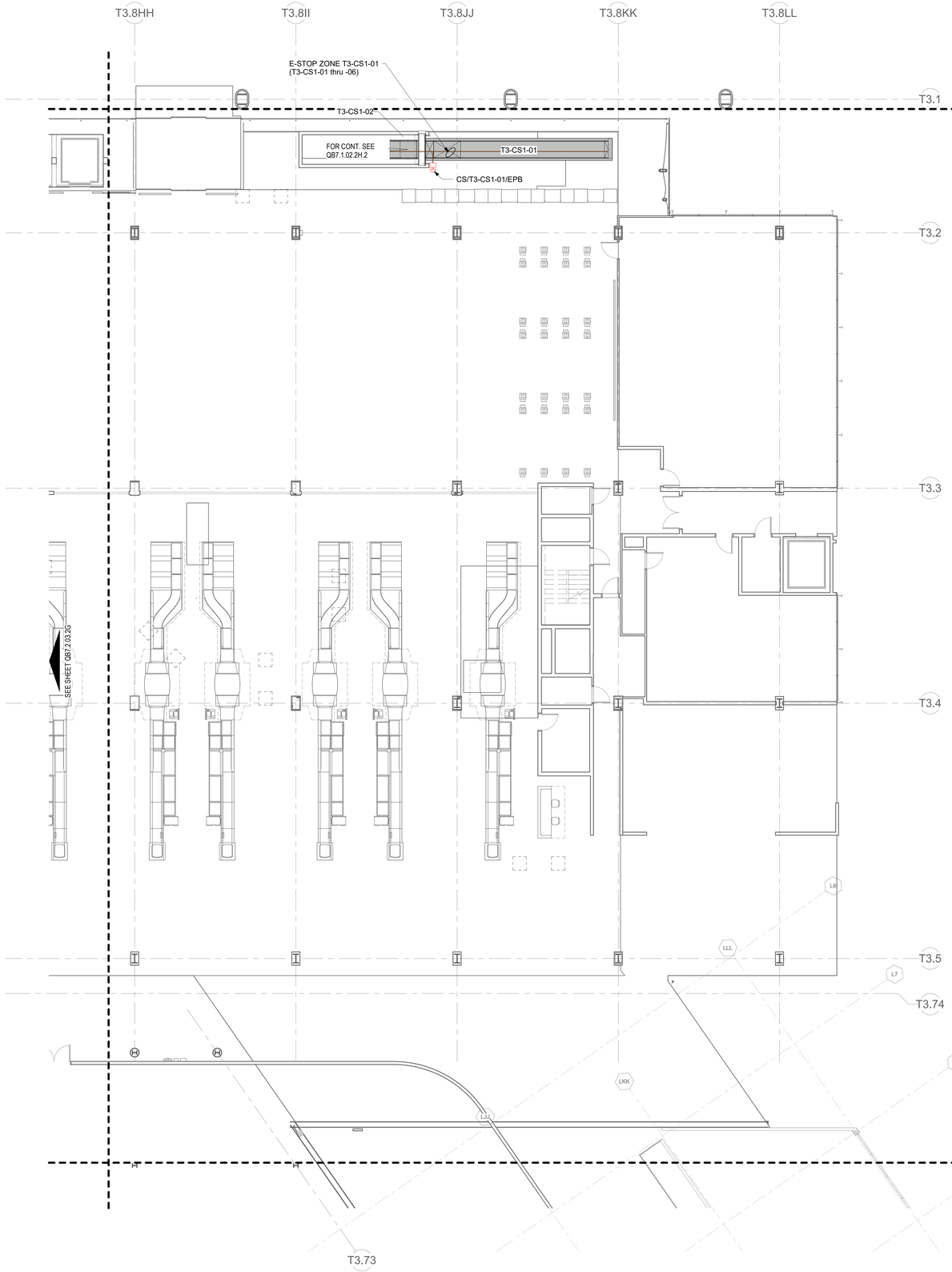

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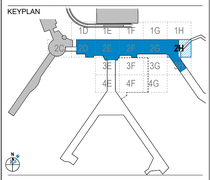
2. E-STOP INTERLOCKS BETWEEN "NEW" AND "EXISTING" MCP's ARE A REQUIREMENT OF THE CONTRACTOR AND ARE TO BE INTEGRATED WITH EXISTING E-STOP SAFETY SCHEMATIC.

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



UPPER LEVEL PLAN - AREA 2H - E-STOP ZONES

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER
QB7.2.03.2H
VOLUME:

0 4'-0" 8'-0" 16'-0" 32'-0"

1 UPPER LEVEL PLAN - AREA 2H - E-STOP ZONES
1'-0"

3/20/2023 11:09:10 AM

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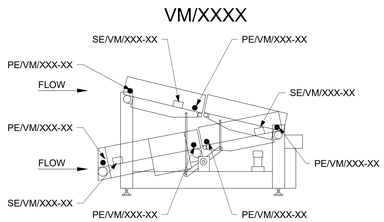
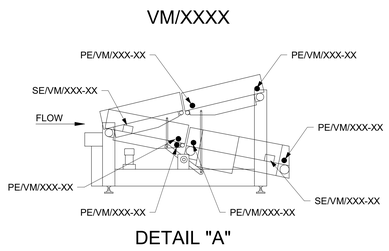
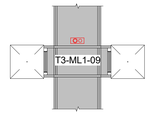


E6 VERTICAL MERGE PHOTO EYE DETAIL
1" = 1'-0"



E4 VERTICAL SORT PHOTO EYE DETAIL
1" = 1'-0"

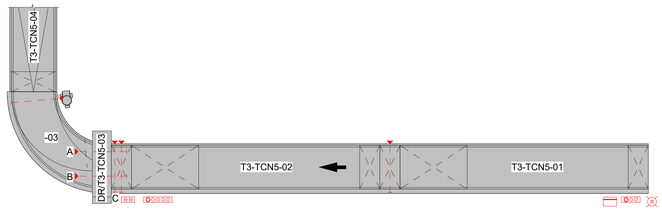


CONVEYOR CROSSOVER DESCRIPTION			
CONVEYOR ID	DEVICE ID	DEVICE DESCRIPTION OR FUNCTION	CONTROL STATION TYPE
T3-ML1-09	CS/T3-ML1-09/EPB,SPB	E-STOP, START	TYPE 2

E3 CONVEYOR CROSSOVER DETAIL
1/4" = 1'-0"

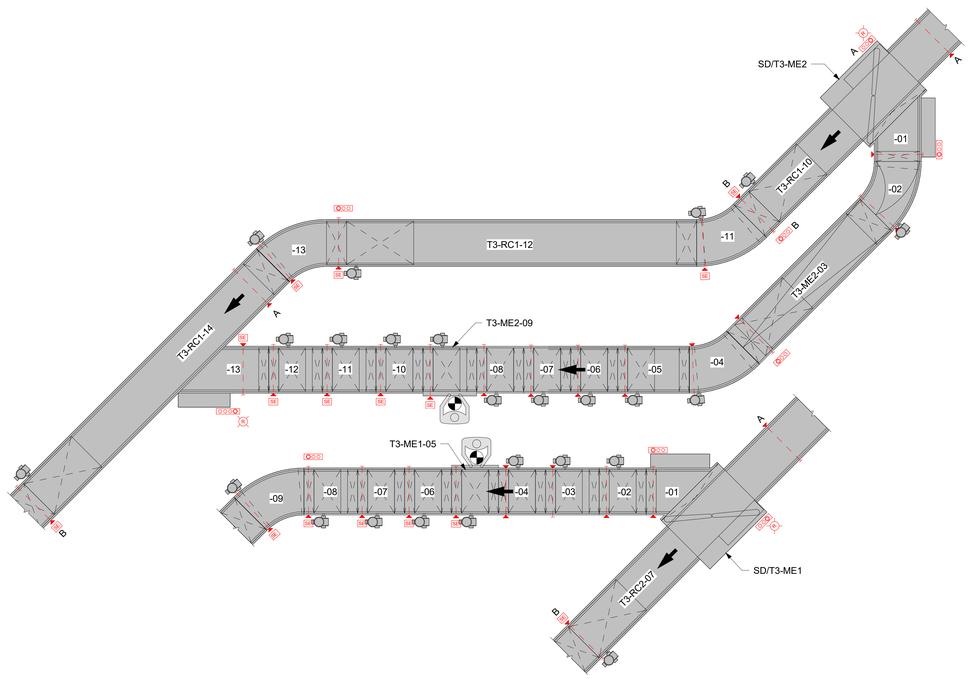
TYPICAL CONTROL DEVICE LEGEND

	LIGHT CURTAIN
	PHOTO EYE
	CONTROL STATION
	CONTROL STATION (2 HOLE) CS
	CONTROL STATION (3 HOLE) CS
	CONTROL STATION (4 HOLE) CS
	CONTROL STATION (5 HOLE) CS
	CONTROL STATION (6 HOLE) CS
WA/ALM	WARNING ALARM (LTR/ALM) (WA)
SE	SHAFT ENCODER (SE)
	STACKED LIGHTS
	CARD READER - BY OTHERS



C4 TC LINE TYPICAL CONTROL DETAILS
1/4" = 1'-0"

TC LINE DEVICE DESCRIPTION			
CONVEYOR ID	DEVICE ID	DEVICE DESCRIPTION OR FUNCTION	CONTROL STATION TYPE
T3-TCN5-01	CS/T3-TCN5-01/EPB,SPB,PBS	E-STOP, START, STOP	TYPE 4
T3-TCN5-01	PE/T3-TCN5-01	HEAD END	
T3-TCN5-01	CR/T3-TCN5-01	CARD READER (PROVIDED BY OTHERS)	
T3-TCN5-01	WA/T3-TCN5-01	WARNING ALARM (AUDIBLE & VISUAL)	
T3-TCN5-02	PE/T3-TCN5-02	HEAD END, JAM	
T3-TCN5-02	CS/T3-TCN5-02/EPB,SPB,RPB,OST,BAG	E-STOP, START, JAM RESET, OVERHEIGHT, BAG ADVANCE	TYPE 11
T3-TCN5-03	PE/T3-TCN5-03	HEAD END	
T3-TCN5-03	CS/DR/T3-TCN5-03/SSW,SSW2	AUTO/MAINTENANCE, OPEN/CLOSE	TYPE 3
T3-TCN5-03	PE/T3-TCN5-03A	DOOR OPEN	
T3-TCN5-03	PE/T3-TCN5-03B	DOOR CLOSE	
T3-TCN5-03	PE/T3-TCN5-03C	DOOR OBSTRUCTION	



A4 MANUAL ENCODE TYPICAL CONTROL DETAILS (DOUBLE) - OPTION 2
1/4" = 1'-0"

MANUAL ENCODE DEVICE DESCRIPTION			
CONVEYOR ID	DEVICE ID	DEVICE DESCRIPTION OR FUNCTION	CONTROL STATION TYPE
T3-ME1-01	CS/T3-ME1-01/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ME1-01	PE/T3-ME1-01	HEAD END	
T3-ME1-02	PE/T3-ME1-02	HEAD END	
T3-ME1-03	PE/T3-ME1-03	HEAD END	
T3-ME1-04	PE/T3-ME1-04	HEAD END	
T3-ME1-05	PE/T3-ME1-05	HEAD END	
T3-ME1-05	SE/T3-ME1-05	SHAFT ENCODER	
T3-ME1-06	PE/T3-ME1-06	HEAD END	
T3-ME1-06	SE/T3-ME1-06	SHAFT ENCODER	
T3-ME1-07	PE/T3-ME1-07	HEAD END	
T3-ME1-07	SE/T3-ME1-07	SHAFT ENCODER	
T3-ME1-08	CS/T3-ME1-08/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ME1-08	PE/T3-ME1-08	HEAD END	
T3-ME1-08	SE/T3-ME1-08	SHAFT ENCODER	
T3-ME1-09	PE/T3-ME1-09	HEAD END, TRACKING	
T3-ME1-09	SE/T3-ME1-09	SHAFT ENCODER	
T3-ME2-01	PE/T3-ME2-01	HEAD END	
T3-ME2-01	CS/T3-ME2-01/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ME2-02	PE/T3-ME2-02	HEAD END	
T3-ME2-03	CS/T3-ME2-03/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ME2-03	PR/T3-ME2-03	HEAD END, JAM	
T3-ME2-04	PE/T3-ME2-04	HEAD END	
T3-ME2-05	PE/T3-ME2-05	HEAD END	
T3-ME2-06	PE/T3-ME2-06	HEAD END	
T3-ME2-07	PE/T3-ME2-07	HEAD END	
T3-ME2-08	PE/T3-ME2-08	HEAD END	
T3-ME2-09	SE/T3-ME2-09	SHAFT ENCODER	
T3-ME2-09	PE/T3-ME2-09	HEAD END, TRACKING	
T3-ME2-10	PE/T3-ME2-10	HEAD END, TRACKING	
T3-ME2-10	SE/T3-ME2-10	SHAFT ENCODER	
T3-ME2-11	PET3-ME2-11	HEAD END, TRACKING	
T3-ME2-11	SE/T3-ME2-11	SHAFT ENCODER	
T3-ME2-12	PE/T3-ME2-12	HEAD END, TRACKING	
T3-ME2-12	SE/T3-ME2-12	SHAFT ENCODER	
T3-ME2-13	PE/T3-ME2-13	HEAD END, TRACKING, JAM	
T3-ME2-13	WA/T3-ME2-13	WARNING ALARM (AUDIBLE & VISUAL)	
T3-ME2-13	SE/T3-ME2-13	SHAFT ENCODER	
T3-ME2-13	CS/T3-ME2-13/EPB,SPB,RPB,JRB	E-STOP, START, JAM RESET, JOG REVERESE	TYPE 6
T3-RC1-10	CS/T3-RC1-10A/EPB,SPB, RPB	E-STOP, START, JAM RESET	TYPE 5
T3-RC1-10	PET3-RC1-10A	DIVERT CONTROL	
T3-RC1-10	PE/T3-RC1-10B	HEAD END, TRACKING, JAM	
T3-RC1-10	SE/T3-RC1-10	SHAFT ENCODER	
T3-RC1-10	WA/T3-RC1-10	WARNING ALARM (AUDIBLE & VISUAL)	
T3-RC1-10	CS/T3-RC1-10B/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-RC1-11	PE/T3-RC1-11	HEAD END, TRACKING	
T3-RC1-11	SE/T3-RC1-11	SHAFT ENCODER	
T3-RC1-12	PE/T3-RC1-12	HEAD END, TRACKING, JAM	
T3-RC1-12	SE/T3-RC1-12	SHAFT ENCODER	
T3-RC1-12	CS/T3-RC1-10B/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-RC1-13	PE/T3-RC1-13	HEAD END, TRACKING	
T3-RC1-13	SE/T3-RC1-13	SHAFT ENCODER	
T3-RC1-14	PE/T3-RC1-14	MERGE CONTROL	
T3-RC1-14	PE/T3-RC1-14	HEAD END, TRACKING	
T3-RC1-14	SE/T3-RC1-14	SHAFT ENCODER	
T3-RC2-07	PE/T3-RC2-07A	DIVERT CONTROL	
T3-RC2-07	WA/T3-RC2-07	WARNING ALARM (AUDIBLE & VISUAL)	
T3-RC2-07	PE/T3-RC2-07B	HEAD END, TRACKING	
T3-RC2-07	CS/T3-RC2-07/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-RC2-07	SE/T3-RC2-07	SHAFT ENCODER	

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

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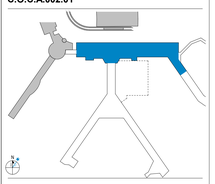
4. CONTROL STATION LOCATIONS ARE TO BE COORDINATED WITH OWNER REPRESENTATIVE BEFORE INSTALL.

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **50% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**



BHS TYPICAL CONTROL DEVICE LAYOUTS

DRAWN BY: **DS,SK,JG** CHECKED BY: **Checker**
SHEET NUMBER
VOLUME:

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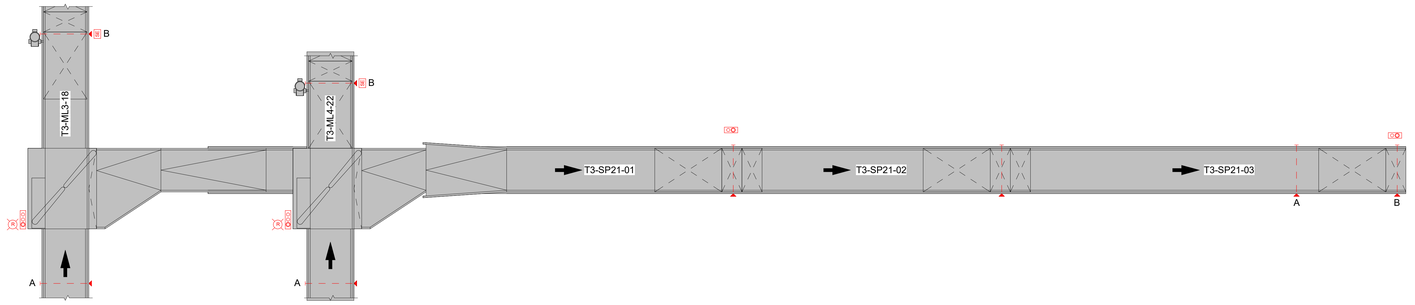
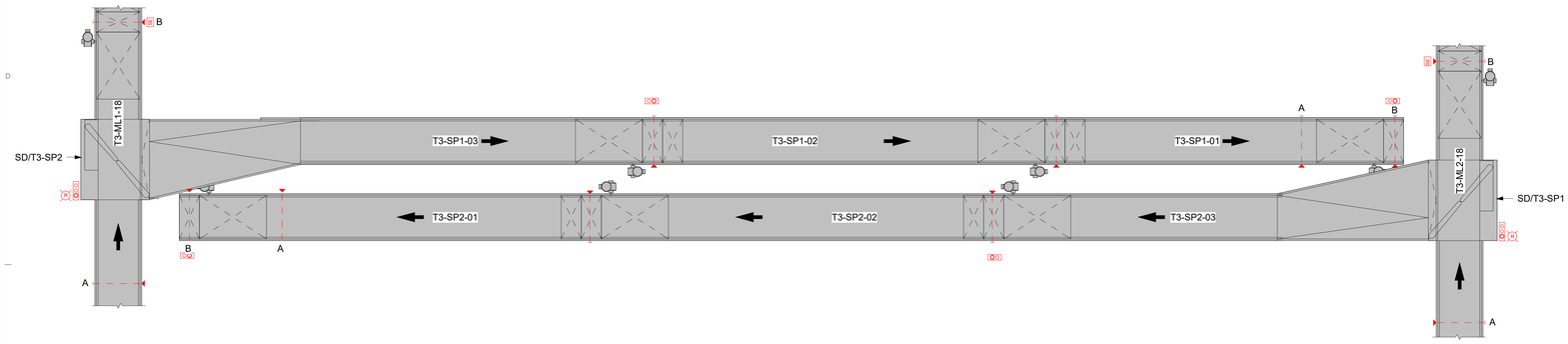


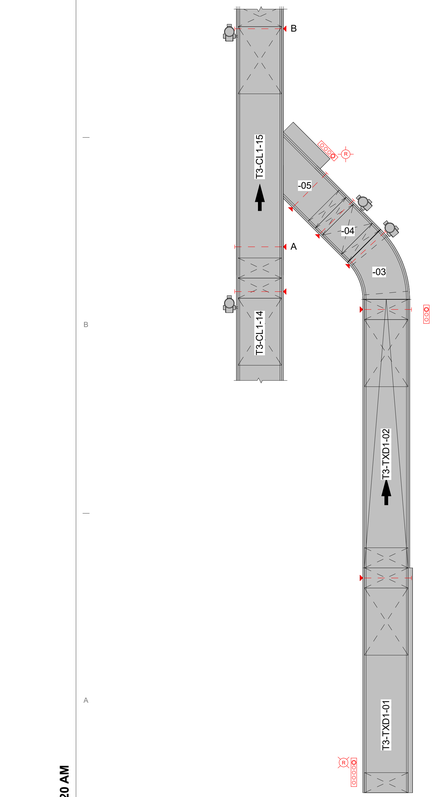
E3 CONTROLS TYPICAL - L-CONCOURSE SORT PIERS
1/4" = 1'-0"

PIER RUNOUT DESCRIPTION - TYPE 1			
CONVEYOR ID	DEVICE ID	DEVICE DESCRIPTION OR FUNCTION	CONTROL STATION TYPE
T3-ML3-18	PE/T3-ML3-18A	DIVERT CONTROL	
T3-ML3-18	PE/T3-ML3-18B	HEAD END, TRACKING	
T3-ML3-18	SE/T3-ML3-18	SHAFT ENCODER	
T3-ML3-18	CS/T3-ML3-18/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ML3-18	WA/T3-ML3-18	WARNING ALARM (AUDIBLE & VISUAL)	
T3-ML4-18	PE/T3-ML4-18A	DIVERT CONTROL	
T3-ML4-18	PE/T3-ML4-18B	HEAD END, TRACKING	
T3-ML4-18	SE/T3-ML4-18	SHAFT ENCODER	
T3-ML4-18	CS/T3-ML4-18/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ML4-18	WA/T3-ML4-18	WARNING ALARM (AUDIBLE & VISUAL)	
T3-SP21-01	PE/T3-SP21-01	HEAD END	
T3-SP21-01	CS/T3-SP21-01/EPB,SPB	E-STOP, START	
T3-SP21-02	PE/T3-SP21-02	HEAD END	
T3-SP21-03	PE/T3-SP21-03A	3/4 FULL	
T3-SP21-03	PE/T3-SP21-03B	CONVEYOR FULL	TYPE 2
T3-SP21-03	CS/T3-SP21-03/EPB,SPB	E-STOP, START	



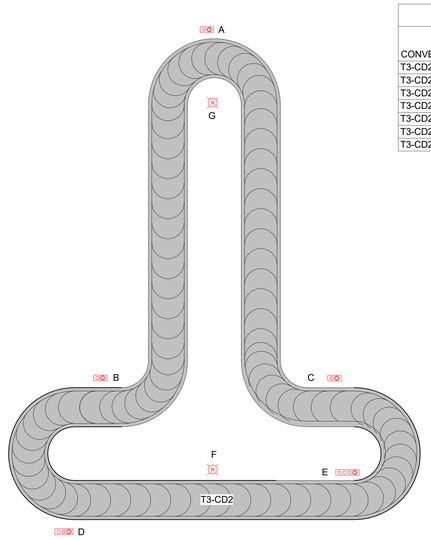
D3 CONTROLS TYPICAL - SUPPLEMENTAL BAG ROOM SORT PIERS
1/4" = 1'-0"

PIER RUNOUT DESCRIPTION - TYPE 2			
CONVEYOR ID	DEVICE ID	DEVICE DESCRIPTION OR FUNCTION	CONTROL STATION TYPE
T3-ML1-18	PE/T3-ML1-18A	DIVERT CONTROL	
T3-ML1-18	PE/T3-ML1-18B	HEAD END, TRACKED	
T3-ML1-18	SE/T3-ML1-18	SHAFT ENCODER	
T3-ML1-18	CS/T3-ML1-18/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ML1-18	WA/T3-ML1-18	WARNING ALARM (AUDIBLE & VISUAL)	
T3-ML2-18	CS/T3-ML2-18/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-ML2-18	PE/T3-ML2-18A	DIVERT CONTROL	
T3-ML2-18	PE/T3-ML2-18B	HEAD END, TRACKED	
T3-ML2-18	SE/T3-ML2-18	SHAFT ENCODER	
T3-ML2-18	WA/T3-ML2-18	WARNING ALARM (AUDIBLE & VISUAL)	
T3-SP1-01	PE/T3/SP1-01	HEAD END	
T3-SP1-01	CS/T3-SP1-01/EPB,SPB	E-STOP, START	TYPE 2
T3-SP1-02	PE/T3-SP1-02	HEAD END	
T3-SP1-03	CS/T3-SP1-03/EPB,SPB	E-STOP, START	TYPE 2
T3-SP1-03A	PE/T3-SP1-03A	3/4 FULL	
T3-SP1-03B	T3-SP1-03B	FULL CONVEYOR	
T3/SP2-01	PE/T2-SP2-01	HEAD END	
T3/SP2-01	CS/T3-SP2-01/EPB,SPB	E-STOP, START	TYPE 2
T3/SP2-02	PE/T3-SP2-02	HEAD END	
T3/SP2-03	CS/T3-SP2-03/EPB,SPB	E-STOP, START	TYPE 2
T3/SP2-03A	PE/T3-SP2-03A	3/4 FULL	
T3/SP2-03B	PE/T3-SP2-03B	FULL CONVEYOR	



INBOUND/TRANSFER DEVICE DESCRIPTION			
CONVEYOR ID	DEVICE ID	DEVICE DESCRIPTION OR FUNCTION	CONTROL STATION TYPE
T3-CL1-15	PE/T3-CL1-15	HEAD END	
T3-CL1-16	PE/T3-CL1-16A	MERGE CONTROL	
T3-CL1-16	PE/T3-CL1-16B	HEAD END	
T3-TXD1-01	CS/T3-TXD1-01/EPB,SPB,RPB,OST,BAG	E-STOP, START, JAM RESET, OVERHEIGHT, BAG ADVANCE	TYPE 11
T3-TXD1-01	PE/T3-TXD1-01	HEAD END	
T3-TXD1-01	WA/T3-TXD1-01	WARNING ALARM (AUDIBLE & VISUAL)	
T3-TXD1-02	PE/T3-TXD1-02	HEAD END, JAM	
T3-TXD1-02	CS/T3-TXD1-02/EPB,SPB,RPB	E-STOP, START, JAM RESET	
T3-TXD1-03	PE/T3-TXD1-03	HEAD END	
T3-TXD1-04	CS/T3-TXD1-04/EPB,SPB,RPB	E-STOP, START, JAM RESET	TYPE 5
T3-TXD1-04	PE/T3-TXD1-04	HEAD END, JAM	
T3-TXD1-04	WA/T3-TXD1-04	WARNING ALARM (AUDIBLE & VISUAL)	

A6 CONTROLS TYPICAL - TRANSFER INPUT
1/4" = 1'-0"



CLAIM DEVICE DESCRIPTION			
CONVEYOR ID	DEVICE ID	DEVICE DESCRIPTION OR FUNCTION	CONTROL STATION TYPE
T3-CD2	CS/T3-CD2A/EPB, SPB	E-STOP, START	TYPE 2
T3-CD2	CS/T3-CD2B/EPB,SPB	E-STOP, START	TYPE 2
T3-CD2	CS/T3-CD2C/EPB,SPB	E-STOP, START	TYPE 2
T3-CD2	CS/T3-CD2E/EPB,SPB,JPB,SSW	E-STOP, START, JAM RESET	TYPE 5
T3-CD2	CS/T3-CD2E/EPB,SPB,JPB,SSW	E-STOP, START, JOG, NORMAL, MAINT.	TYPE 7
T3-CD2	WA/T3-CD2F	WARNING ALARM (AUDIBLE & VISUAL)	
T3-CD2	WA/T3-CD2G	WARNING ALARM (AUDIBLE & VISUAL)	

A2 CONTROLS TYPICAL - FLAT PLATE DEVICE
1/4" = 1'-0"

TYPICAL CONTROL DEVICE LEGEND

	LIGHT CURTAIN
	PHOTO EYE
	CONTROL STATION
	CONTROL STATION (2 HOLE) CS
	CONTROL STATION (3 HOLE) CS
	CONTROL STATION (4 HOLE) CS
	CONTROL STATION (5 HOLE) CS
	CONTROL STATION (6 HOLE) CS
WA	WARNING ALARM (LTR/ALM) (WA)
SE	SHAFT ENCODER (SE)
	STACKED LIGHTS
	CARD READER - BY OTHERS

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

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ISSUANCE: **60% DESIGN**
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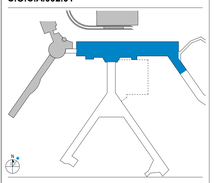
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**



BHS TYPICAL CONTROL DEVICE LAYOUT

DRAWN BY: **DS,SK,JG** CHECKED BY: **Checker**
SHEET NUMBER
QB7.04
VOLUME:

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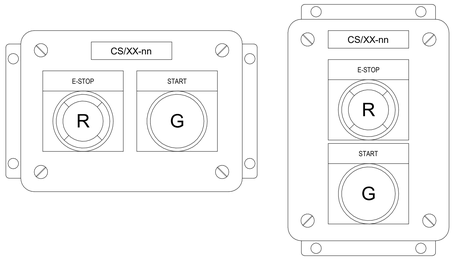
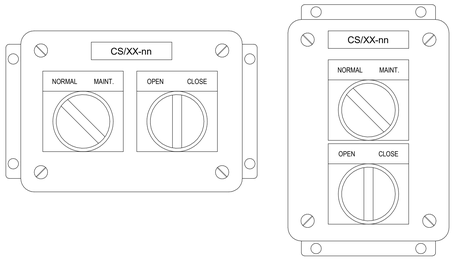
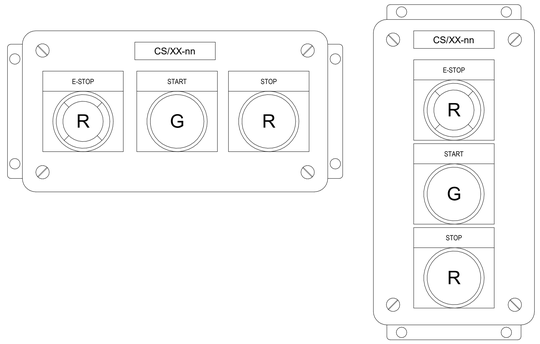


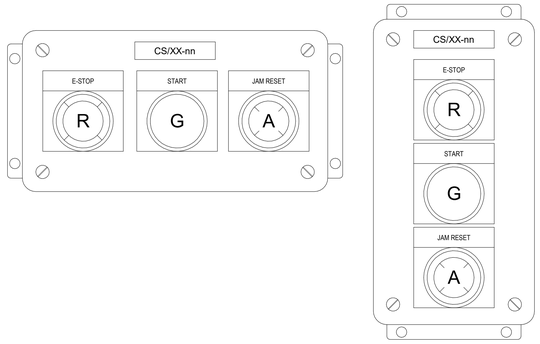
E5 CONTROL STATION (TYPE 2)
12" = 1'-0"



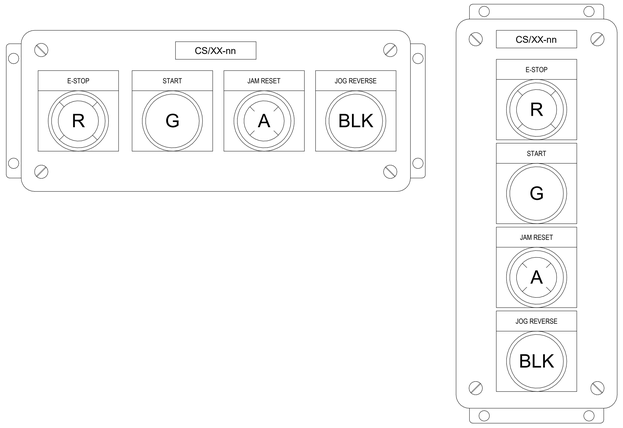
D5 CONTROL STATION (TYPE 3)
12" = 1'-0"



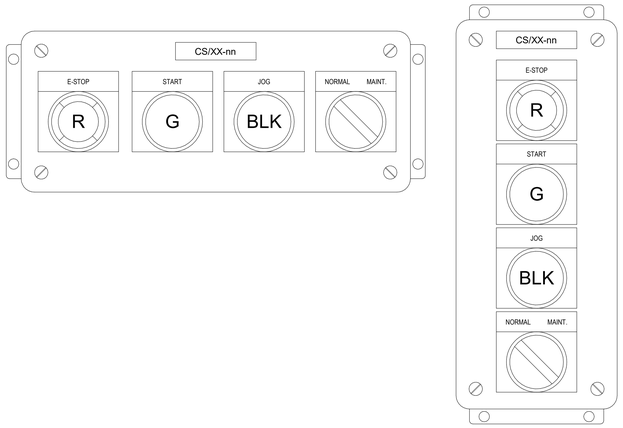
B5 CONTROL STATION (TYPE 4)
12" = 1'-0"



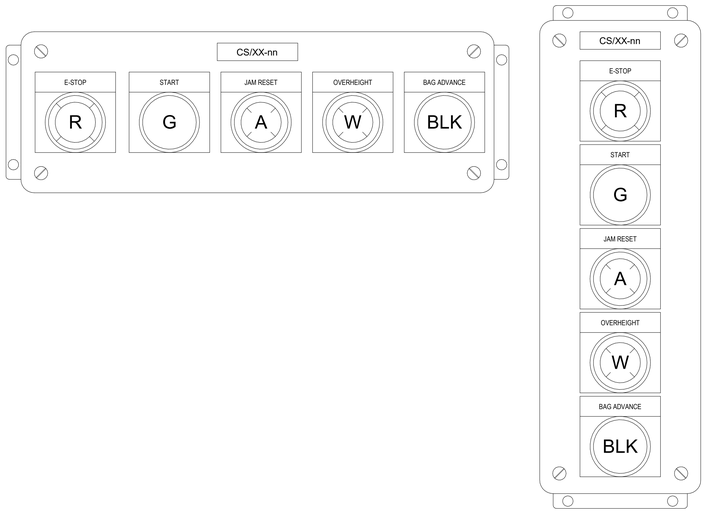
A5 CONTROL STATION (TYPE 5)
12" = 1'-0"



D3 CONTROL STATION (TYPE 6)
12" = 1'-0"



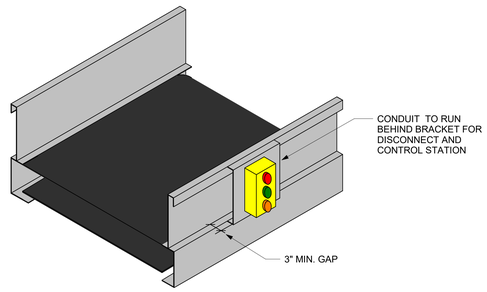
C3 CONTROL STATION (TYPE 7)
12" = 1'-0"



A3 CONTROL STATION (TYPE 11)
12" = 1'-0"

DEVICE LEGEND

DEVICE	GRAPHIC	COMPONENT
E-STOP PUSH BUTTON = EPB	R	2-POSITION PUSH-PULL RELEASE UNITS, ILLUMINATED. (MAINTAINED)
INHIBITED PUSH BUTTON = RIB	R	ILLUMINATED INDICATOR RED EXTENDED HEAD LIGHT.
START PUSH BUTTON = SPB	G	MOMENTARY CONTACT PUSH BUTTON UNITS, NON-ILLUMINATED
JAM RESET = RPB	A	MOMENTARY CONTACT PUSH BUTTON UNITS, ILLUMINATED
JOG REVERSE = JRB JOG = JPB	BLK	MOMENTARY CONTACT PUSH BUTTON UNITS, NON-ILLUMINATED
NORMAL & MAINT. = SSW		2-POSITION SELECTOR SWITCH UNITS, NON-ILLUMINATED
START ALARM = ALM		SONALERT UNITS
BAG ADVANCE = BAS	BLK	MOMENTARY CONTACT PUSH BUTTON UNITS, NON-ILLUMINATED
OPEN AND CLOSE = SSW		3-POSITION SELECTOR SWITCH UNITS, (CENTER) NON-ILLUMINATED
RESET INHIBT = RHB	BLK	MOMENTARY CONTACT PUSH BUTTON UNITS, NON-ILLUMINATED
INHIBIT = IHB	R	MOMENTARY CONTACT PUSH BUTTON UNITS, NON-ILLUMINATED
OVER SIZE	W	MOMENTARY CONTACT PUSH BUTTON UNITS, ILLUMINATED



A1 CONTROL STATION MOUNTING DETAIL
1" = 1'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

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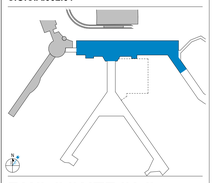

BHS CONTROLS STATION CONFIGURATION TYPICALS

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VOLUME:

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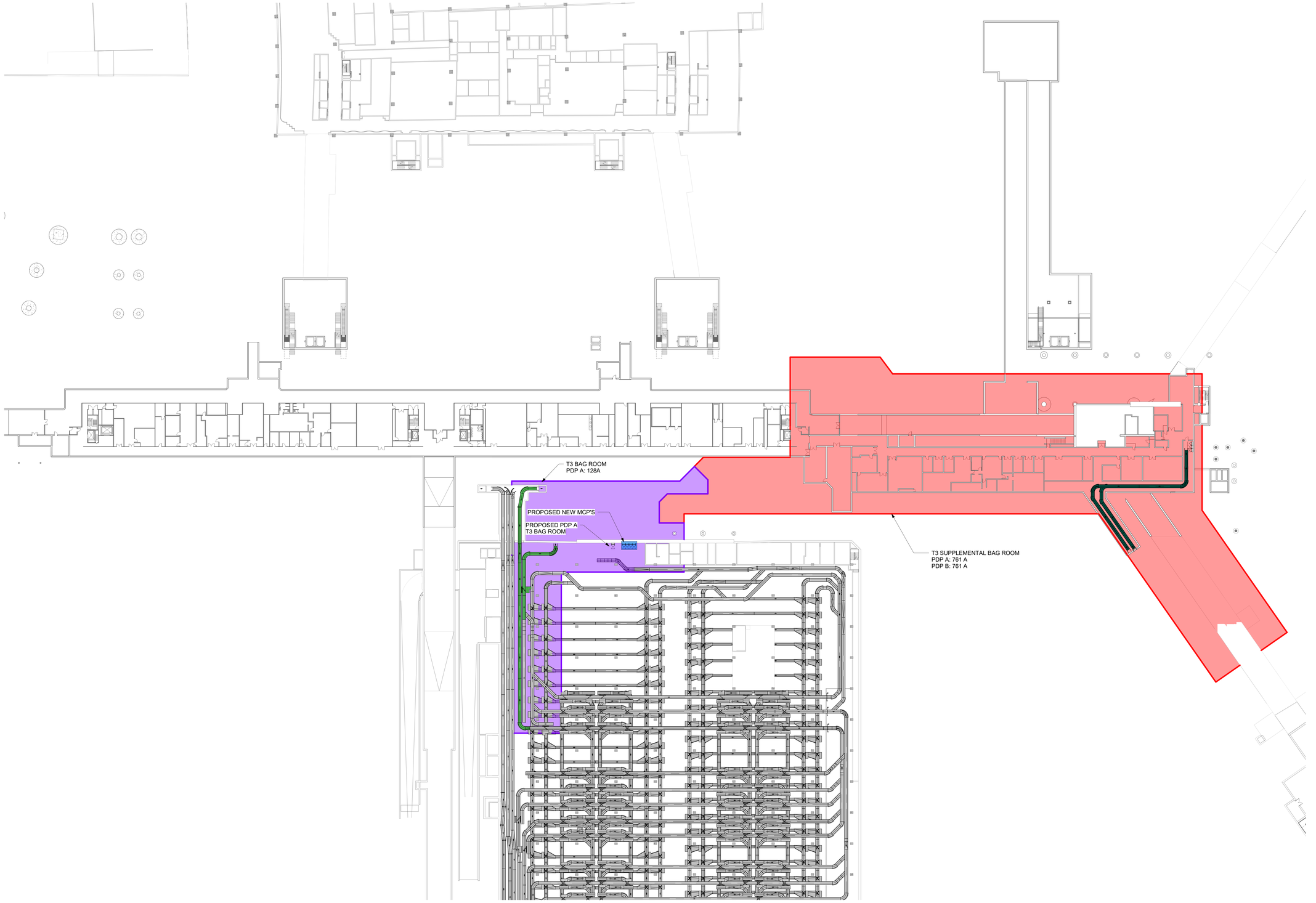
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A BASEMENT ONE - BHS PDP
1/32" = 1'-0"

0 8'-0" 16'-0" 32'-0" 64'-0"

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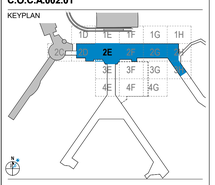
KEYPLAN



BHS BASEMENT ONE - PDP LAYOUT

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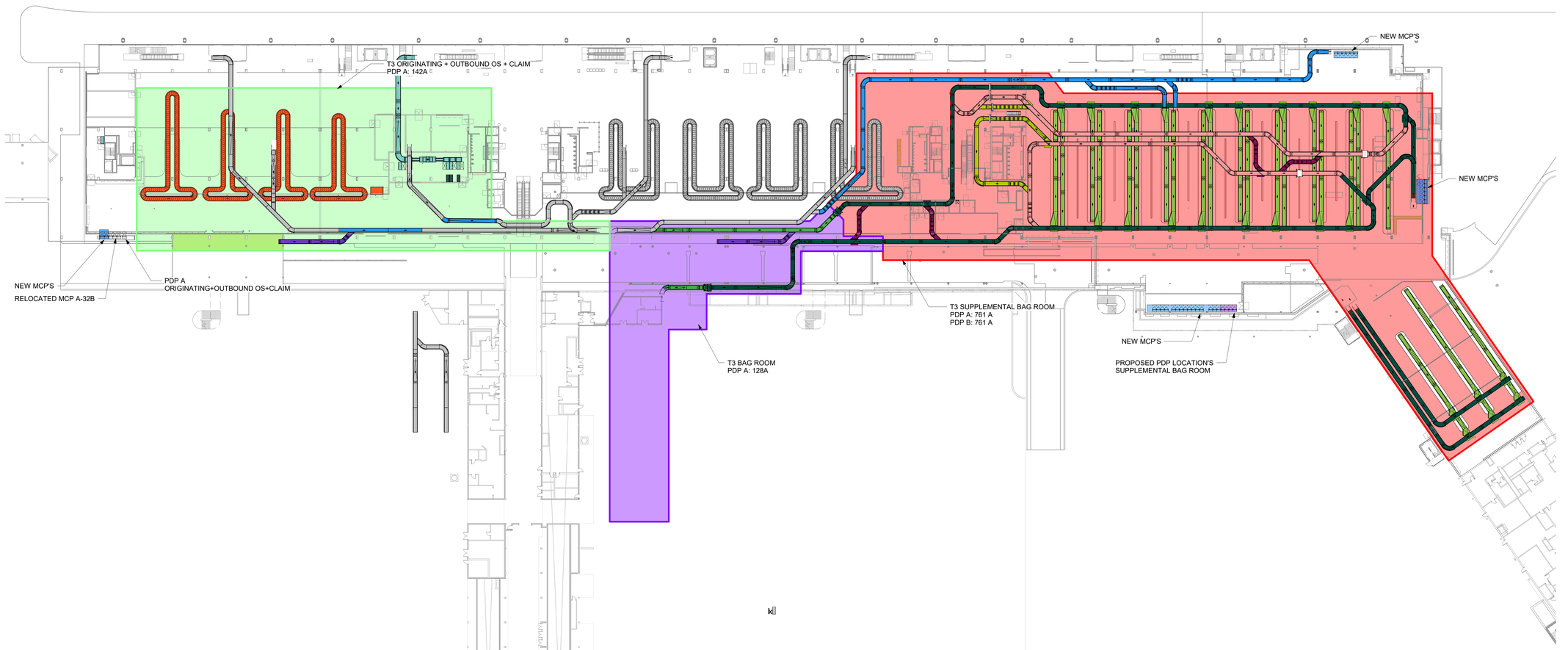
LEGEND

- CLEAR BAG SUBSYSTEMS
- CROSSOVER SUBSYSTEMS
- ENCODE SUBSYSTEMS
- EXISTING SUBSYSTEMS
- INBOUND SUBSYSTEMS
- OVERSIZE SUBSYSTEMS
- SORTATION SUBSYSTEMS
- RECIRCULATION SUBSYSTEMS
- SORT PIER SUBSYSTEMS
- ORIGINATING SUBSYSTEMS
- TRANSFER SUBSYSTEMS
- FUTURE SUBSYSTEMS
- PDP/MCP
- DEMOLISHED SUBSYSTEMS



1A LOWER LEVEL - BHS PDP
1/32" = 1'-0"
0 8'-0" 16'-0" 32'-0" 64'-0"

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REVISION:
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BHS LOWER LEVEL - PDP LAYOUT

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BAGGAGE CONVEYOR LOADS:

1. THE CONVEYOR ATTACHMENT METHODS REPRESENTED ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THE BAGGAGE HANDLING SYSTEM CONTRACTOR IS REQUIRED TO SUBMIT CONVEYOR ATTACHMENT DETAILS INCLUDING LOADING CALCULATIONS BY A REGISTERED P.E. TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
2. ALL STRUCTURAL DESIGNS AND ATTACHMENTS SHALL COMPLY WITH ALL STATE, LOCAL AND NATIONAL GOVERNING CODES AND REGULATIONS. THIS SHALL INCLUDE ALL SIESMIC LOADING. ALL CONVEYOR EQUIPMENT SHALL BE CAPABLE OF SUPPORTING A SINGLE CONCENTRATED LOAD OF 250 LBS.
3. THE CONTRACTOR SHALL INCLUDE VIBRATION ISOLATORS AS PART OF THE BASE BID. THE LIVE LOAD TO BE UTILIZED FOR SIZING DRIVES, BELTS, BEARINGS, ETC., SHALL BE 60 LBS/LIN. FT. FOR LOAD ACCUMULATING CONVEYORS AND RUN-OUT CONVEYORS, 40 LBS/LIN FT. AT A CONVEYOR SPEED OF 90 FPM ADJUSTED PROPORTIONAL TO THE SPEED OF ALL OTHER CONVEYORS. 25 LBS/LIN. FT. AS A MINIMUM.
4. THE POINT LOADS REPRESENTED ARE BASED ON LIVE AND DEAD [BRACKETS] WEIGHT OF CONVEYOR EQUIPMENT, BAGGAGE AND OPERATING PERSONNEL.

CATWALK / MAINTENANCE PLATFORM NOTES:

1. THE CATWALK/MAINTENANCE PLATFORMS AND WALKWAYS THAT ARE SHOWN ON THIS DRAWING ARE INTENDED AS TYPICAL SCHEMATIC EXAMPLES OF WHERE PLATFORMS AND WALKWAYS ARE TO BE PROVIDED AND THE APPROXIMATE CONFIGURATION.
2. PROVIDE AND INSTALL CATWALK/MAINTENANCE PLATFORMS FOR MAINTENANCE PERSONNEL ACCESS TO ALL MAINTENANCE POINTS AND POTENTIAL BAGGAGE JAM LOCATIONS. PROVIDE AND INSTALL LADDERS TO ALLOW ACCESS TO ALL PLATFORMS.
3. SYSTEM MAINTENANCE POINTS INCLUDE BUT ARE NOT LIMITED TO:
   a) ALL MOTOR/DRIVE LOCATIONS
   b) ALL RETURN ROLLER LOCATIONS
4. POTENTIAL BAGGAGE JAM LOCATIONS INCLUDE BUT ARE NOT LIMITED TO:
   a) ALL ENTRANCE AND EXIT POINTS ON POWER TURNS
   b) ALL SEPARATIONS BETWEEN CONVEYORS (HEAD AND TAIL ENDS)
5. REFER TO SPECIFICATION FOR MAINTENANCE PLATFORMS AND WALKWAYS REQUIREMENTS AND CRITERIA.

LOADING DIAGRAM NOTES:

1. DURING THE DETAIL DESIGN PERIOD, THE FOLLOWING LOADS WERE SUPPLIED TO THE STRUCTURAL ENGINEER FOR USE IN DETERMINING THE LOADS GENERATED BY THE CONVEYOR EQUIPMENT (LIVE AND DEAD LOADS COMBINED. DEAD LOADS ARE IN BRACKETS). DURING THE BIDDING PERIOD, PROVIDE AND CLEARLY IDENTIFY ANY CONVEYOR EQUIPMENT LOADING REQUIREMENTS MORE STRINGENT THAN WHAT IS SHOWN IN THESE DOCUMENTS THAT MAY BE ESSENTIAL FOR EQUIPMENT CONNECTIONS TO THE BUILDING STRUCTURE.

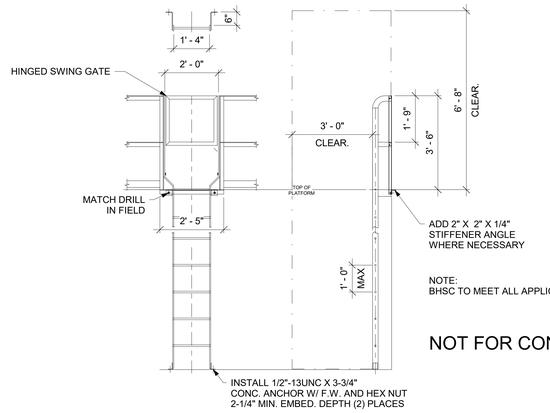
CONVEYOR COMPONENT	STD SECTION (39" BF)	OVR. SECTION (57" BF)
CONVEYOR BED SECTION	100 LBS/LIN. FT. [75 LBS/LIN FT.]	150 LBS/LIN. FT. [125 LBS/LIN/ FT]
END BRACKET	300 LBS, EA. [225 LBS, EA.]	450 LBS, EA. [375 LBS, EA.]
CONVR. DRIVE (UP TO 5'-0")	1,300 LBS, EA. [1,175 LBS, EA.]	1,900 LBS, EA. [1.775 LBS, EA.]
MINI CONVR. DRIVE (UP TO 4'-0")	1,050 LBS, EA. [950 LBS, EA.]	1,540 LBS, EA. 1,440 LBS, EA.]
POWER TURN 45°	850 LBS, EA. [740 LBS, EA.]	1,240 LBS, EA. 1,130 LBS, EA.
POWER TURN 90°	1,300 LBS, EA. [1,079 LBS, EA.]	1,900 LBS, EA. [1,680 LBS, EA.]
POWER TURN 180°	2,500 LBS, EA. [2,058 LBS, EA.]	3,650 LBS, EA. [3,208 LBS, EA.]
45° INDUCTION MERGE	1,350 LBS, EA. [1,225 LBS, EA.]	1,975 LBS, EA. [1,850 LBS, EA.]
MAINT. CATWALK/PLATFORMS (INCLUDES OPER. PERSONNEL)	65 LBS/SQ. FT. [35 LBS/SQ/ FT.]	65 LBS/SQ.FT. [35 LBS/SQFT.]
MAKE-UP DEVICE	200 LBS/LIN. FT. [175 LBS/LIN. FT.]	
VERITSORTER	4600 LBS, EA. [4,225 LBS, EA.]	
HIGH SPEED DIVERTER	1800 LBS, EA. [1530 LBS, EA.]	

2. THE CONVEYOR SUPPORT POINT LOADING PLACEMENT AND CONFIGURATION SHOWN IS REPRESENTATIVE OF ONE POSSIBLE CONFIGURATION. THIS DIAGRAMMATIC VIEW IS PROVIDED FOR USE BY THE STRUCTURAL ENGINEER IN DETERMINING ALL LOADS IMPOSED BY THE NEW BAGGAGE EQUIPMENT AND ASSOCIATED SERVICES. OTHER CONFIGURATIONS MAY BE PROVIDED.
3. PROVISION OF THE BAGGAGE EQUIPMENT CONTRACTOR SHALL PROVIDE SPECIFIC DETAIL SUPPORT DESIGN FOR ALL BUILDING STRUCTURE CONNECTIONS AND ALL VERTICAL SUPPORT MEMBER CONNECTIONS TO FLOOR SLAB AND BUILDING STRUCTURE.
4. THE FINAL STRUCTURAL SUPPORT DESIGN SOLUTION IS THE RESPONSIBILITY OF THE BAGGAGE EQUIPMENT CONTRACTOR AND SHALL BE COORDINATED WITH AND APPROVED BY THE BHS CONTRACTOR'S PROFESSIONAL PROJECT ENGINEER.
5. THE BAGGAGE EQUIPMENT SUPPLIER IS RESPONSIBLE FOR THE DESIGN AND STRUCTURAL INTEGRITY OF ALL BOLTS, HANGERS, SUPPORT MEMBERS, ETC., AND IS TO PROVIDE ALL NECESSARY MATERIALS REQUIRED FOR INSTALLATION.
6. THE POINT LOADS REPRESENTED ARE BASED ON LIVE AND DEAD LOADS OF CONVEYOR EQUIPMENT ONLY.
7. *** CATWALK LOADING MUST BE ADDED SEPARATELY WHERE SHOWN ON CONTRACT DRAWINGS.**

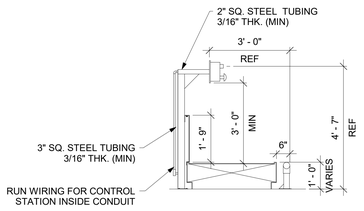
NOTES:
1. STANDARD 39" BF CONVEYOR AND FOR CATWALK UP TO 36" POINT LOAD DIAGRAMS ARE FOR REFERENCE ONLY.
2. OVERSIZED (>39 TO 57" BF) CONVEYOR COMPONENT LOADING, SEE ABOVE.
3. ACTUAL BHS EQUIPMENT LOADING AND POINT LOAD REQUIREMENTS SHALL BE SUPPLIED BY THE BHSC FOR THE STRUCTURAL ENGINEER TO REVIEW AND APPROVE.

NOTE:

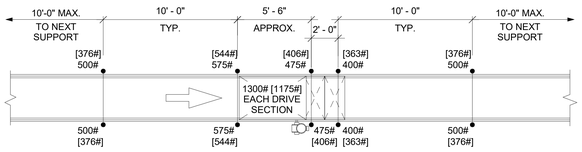
THE INTRODUCTION OF A MAINTENANCE PLATFORM WILL INCREASE SELECT LOADS IF SUPPORTED IN CONJUNCTION WITH THE CONVEYOR EQUIPMENT. THE ACTUAL INCREASE IS PREDICATED ON THE CODE REQUIREMENTS. FOR A PLATFORM OF THIS TYPE AND USE. (DEFINED BY ARCH/ENGR).



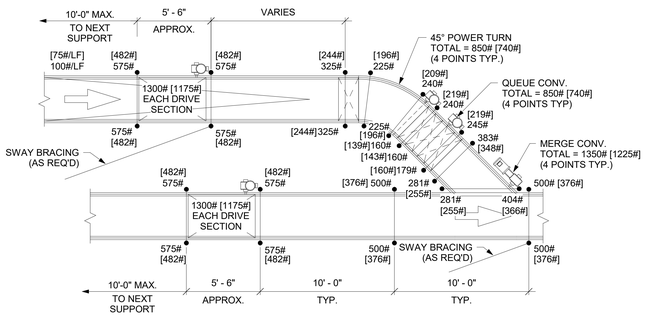
5E FIXED LADDER AT CATWALK
1/2" = 1'-0"



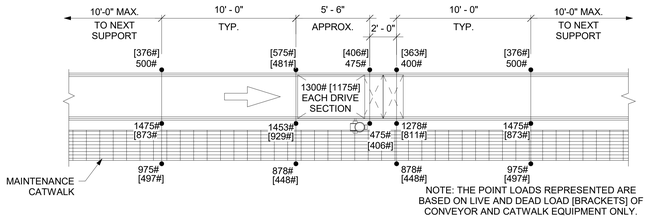
5D FLAT PLATE DEVICE OR SORT CONVEYOR CONTROL STATION DETAIL AND STANCHION DETAIL
1/2" = 1'-0"



5A SUPPORT LOADS - CONVEYOR
1/4" = 1'-0"



2B SUPPORT LOADS - CONVEYOR MERGE
1/4" = 1'-0"



2A SUPPORT LOADS - CONVEYOR WITH CATWALK
1/4" = 1'-0"

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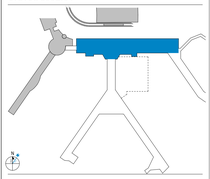

BHS TYPICAL LOADING DETAILS

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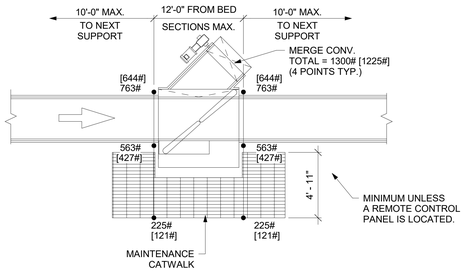
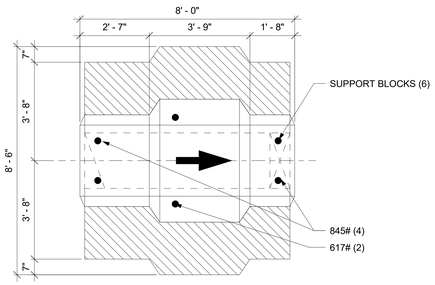
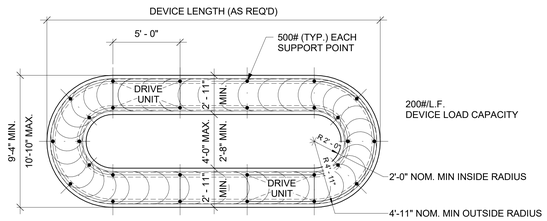


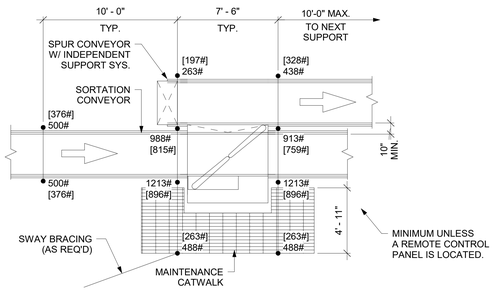
1D SUPPORT LOADS - HSD 45° TAKE AWAY
1/4" = 1'-0"



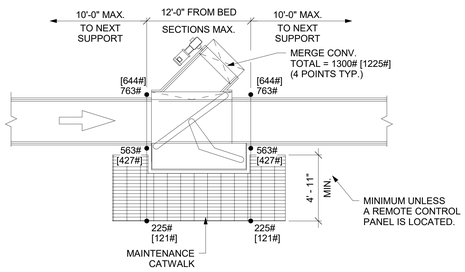
6C SUPPORT LOADS - CT80
1/2" = 1'-0"



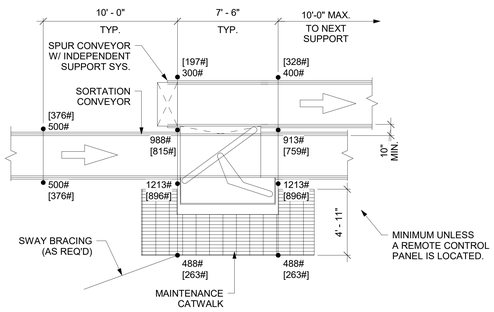
4C SUPPORT LOADS - FLAT PLATE DEVICE
1/4" = 1'-0"



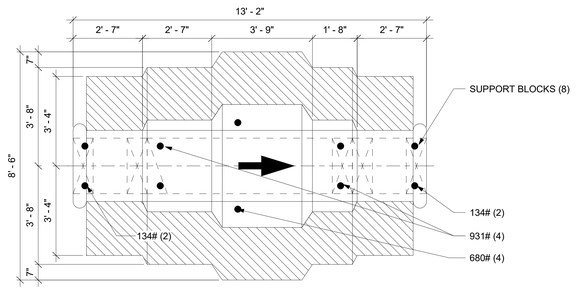
1C SUPPORT LOADS - HSD PARALLEL TAKE AWAY
1/4" = 1'-0"



6A SUPPORT LOADS - HCD 45° TAKE AWAY
1/4" = 1'-0"



4A SUPPORT LOADS - HCD PARALLEL TAKE AWAY
1/4" = 1'-0"



1A SUPPORT LOADS - CT80XL
1/2" = 1'-0"

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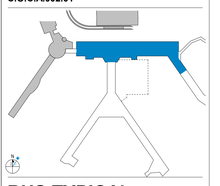
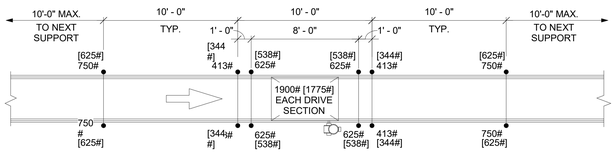


BHS TYPICAL LOADING DETAILS

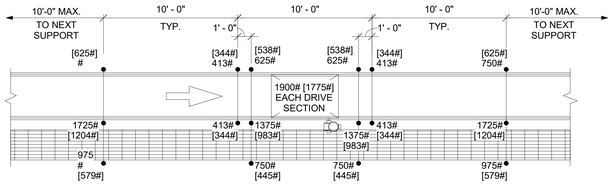
DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**

SHEET NUMBER
QB8.01

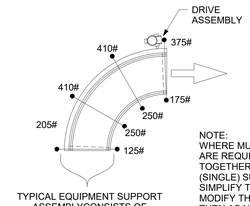
VOLUME:



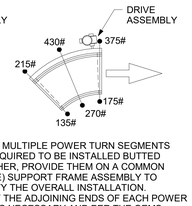
6E SUPPORT LOADS - ODDSIZE CONVEYOR
1/4" = 1'-0"



6D SUPPORT LOADS - ODDSIZE CONVEYOR WITH CATWALK
1/4" = 1'-0"

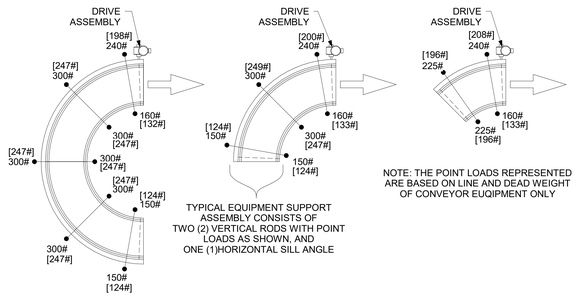


TYPICAL EQUIPMENT SUPPORT ASSEMBLYCONSISTS OF TWO (2) VERTICAL RODS WITH POINT LOADS AS SHOWN, AND ONE (1)HORIZONTAL SILL ANGLE



NOTE:
WHERE MULTIPLE POWER TURN SEGMENTS ARE REQUIRED TO BE INSTALLED BUTTED TOGETHER, PROVIDE THEM ON A COMMON (SINGLE) SUPPORT FRAME ASSEMBLY TO SIMPLIFY THE OVERALL INSTALLATION. MODIFY THE ADJOINING ENDS OF EACH POWER TURN AS NECESSARY AND PER THE OEMS RECOMMENDATIONS, SO THAT THE COMPLETE ASSEMBLY BETWEEN EACH SEGMENT CLOSELY FITS TOGETHER TO MINIMIZE THE TRANSFER GAPS AT THE JUNCTION POINTS, WHICH SHALL NOT EXCEED 1" (MAX.) BETWEEN THE BELT FACE(S).

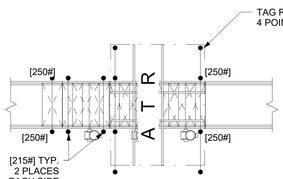
6C SUPPORT LOADS - ODDSIZE POWER TURNS
1/4" = 1'-0"



TYPICAL EQUIPMENT SUPPORT ASSEMBLY CONSISTS OF TWO (2) VERTICAL RODS WITH POINT LOADS AS SHOWN, AND ONE (1)HORIZONTAL SILL ANGLE

NOTE: THE POINT LOADS REPRESENTED ARE BASED ON LINE AND DEAD WEIGHT OF CONVEYOR EUQIPMENT ONLY

6B SUPPORT LOADS - POWER TURNS
1/4" = 1'-0"

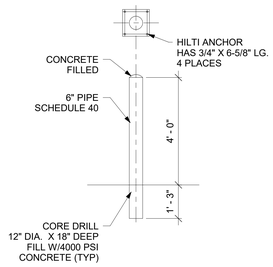


NOTE:
THE POINT LOADS REPRESENTED ARE BASED ON COMPOSITE WEIGHT OF CONVEYOR EQUIPMENT ONLY.

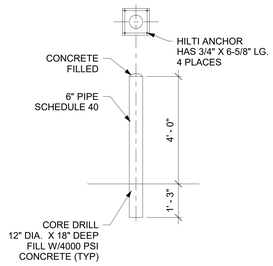
COMPONENT	WEIGHT
SORTATION CONVEYOR:	100#/LF
QUEUE: CONVEYOR:	800#/LF
AUTOMATIC TAG READER:	500# EA.
MAINTENANCE PLATFORM:	**NOTE

THE TAG READER MAINTENANCE PLATFORM SHALL PROVIDE FOR AN ASSUMED LIVE LOAD OF 500#.

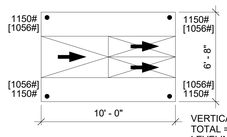
6A SUPPORT LOADS - SCANNER ARRAY
1/4" = 1'-0"



3E TYPICAL BOLLARD
1/2" = 1'-0"



3D TYPICAL BOLLARD1
1/2" = 1'-0"



VERTICAL SORTATION
TOTAL = 4600# [4225#]
LEVELING PADS (4)

3C SUPPORT LOADS - VERTICAL SORTATION
1/4" = 1'-0"

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
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10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

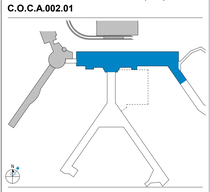
NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01



BHS TYPICAL LOADING DETAILS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER
QB8.02
VOLUME:

3/20/2023 11:10:31 AM

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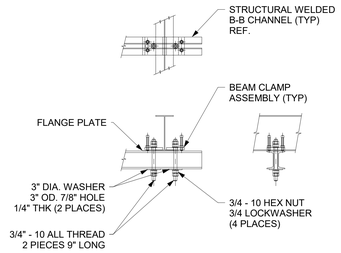
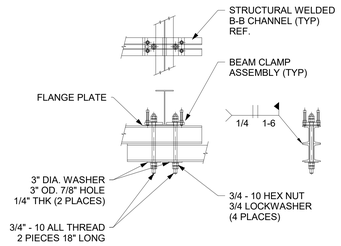
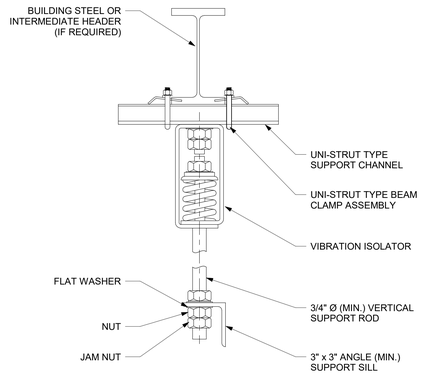


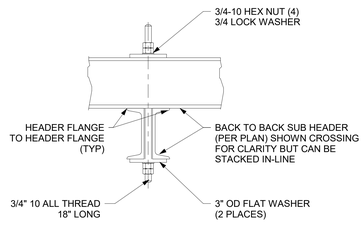
6E CLAMPING BACK TO BACK TO BUILDING CONNECTION - OPTION 1
1/2" = 1'-0"



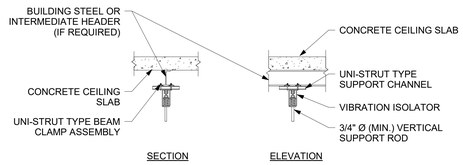
6D CLAMPING BACK TO BACK TO BUILDING CONNECTION - OPTION 2
1/2" = 1'-0"



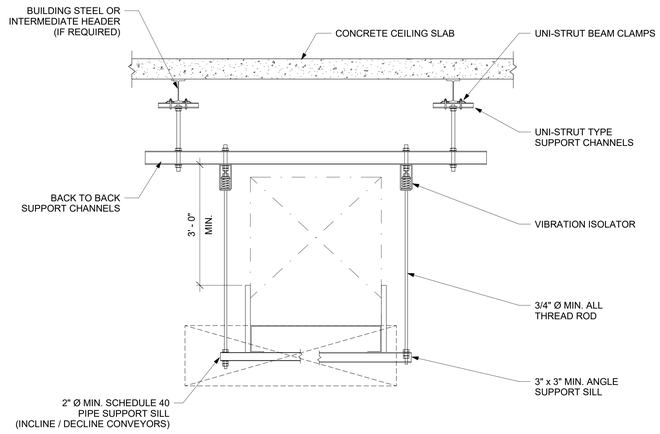
6B HANGER APPLICATION AT BUILDING STEEL
3" = 1'-0"



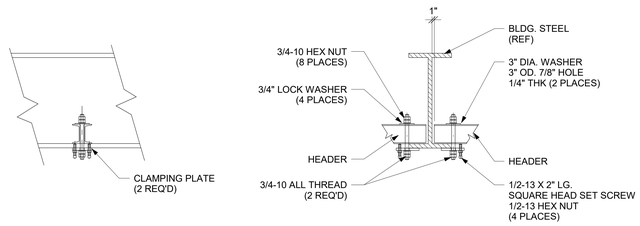
6A DOUBLE BACK TO BACK CONNECTION
1/2" = 1'-0"



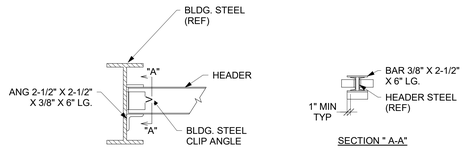
3E CONVEYOR ATTACHMENT USING UNI-STRUT BEAM CLAMPS & VIBRATION ISOLATORS
1/2" = 1'-0"



3C HEADER ATTACHMENT WITH AND WITHOUT SWAY BRACING
3/4" = 1'-0"



3B TYPICAL ATTACHMENT OF BACK TO BACK ON LOWER FLANGE
1" = 1'-0"



3A TYPICAL B-B HEADER CLIP ATTACHMENTS
1 1/2" = 1'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
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Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

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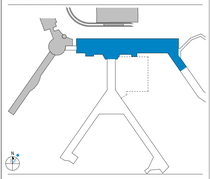
ISSUANCE: **60% DESIGN** — PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD** — REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**



BHS TYPICAL ATTACHMENT AND CONDUIT ROUTING DETAILS

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SHEET NUMBER: **QB8.03** VOLUME:

3/20/2023 11:10:35 AM

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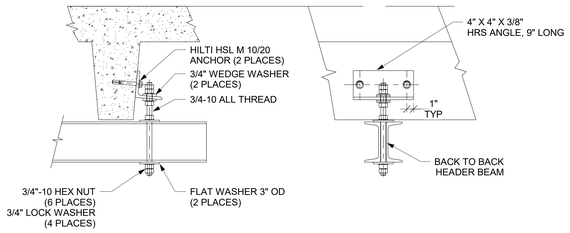
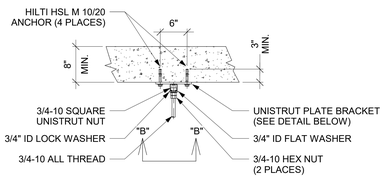
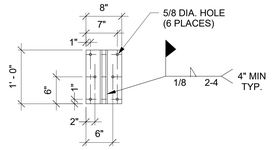


6E TYPICAL CLIP ATTACHMENT TO TAPERED BEAM
1 1/2" = 1'-0"



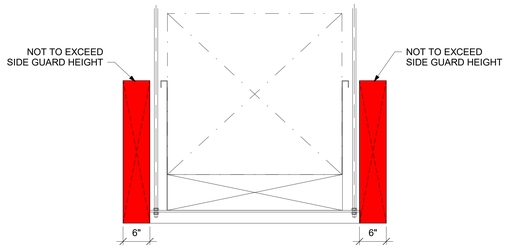
NOTE: ALL THREAD ROD IS TO BE TIGHTENED AGAINST THE TOP OF THE UNISTRUT BEFORE THE NUTS ARE TIGHTENED.

4E TYPICAL UNISTRUT PLATE ATTACHMENT
1" = 1'-0"

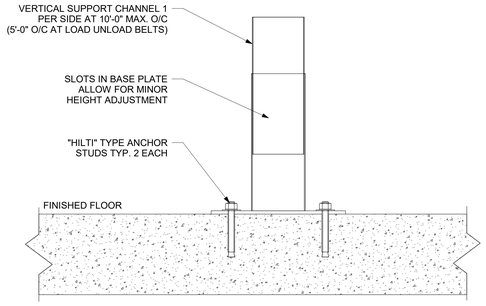


SECTION "B-B"

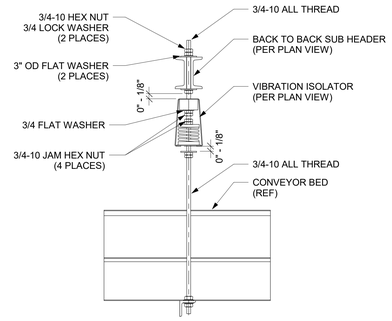
NOTE:
CONDUIT/WIREWAY ROUTING ENVELOPE CONDUIT TO BE ROUTED SO AS NOT TO IMPAIR ACCESS TO CONVEYOR COMPONENTS (MOTORS, END ROLLERS, ETC.) OR BAGGAGE CONVEYANCE RIGHT-OF-WAY



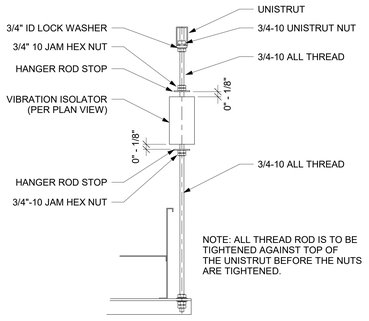
2E WIREWAY ENVELOPE - CEILING SUPPORTED CONVEYOR CONDUIT ROUTING
1" = 1'-0"



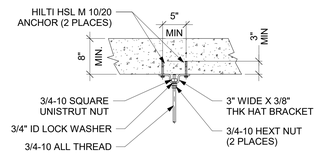
6C TYPICAL FLOOR SUPPORT CONVEYOR LEG DETAIL
3" = 1'-0"



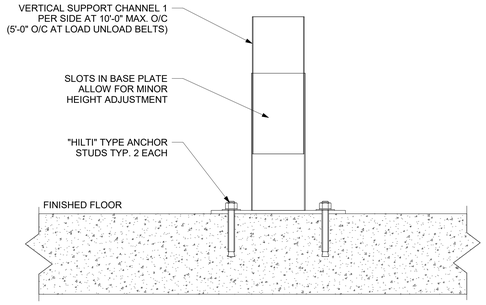
4C TYPICAL ISOLATOR INSTALLATION
3" = 1'-0"



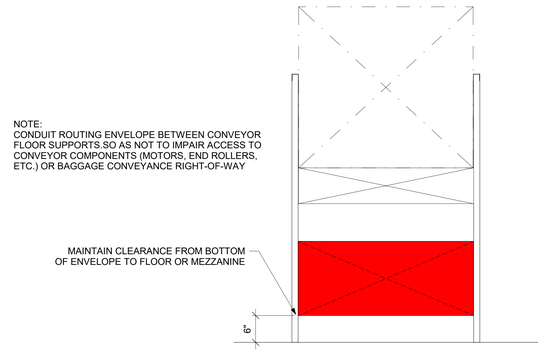
NOTE: ALL THREAD ROD IS TO BE TIGHTENED AGAINST TOP OF THE UNISTRUT BEFORE THE NUTS ARE TIGHTENED.



1C TYPICAL HAT BRACKET CONNECTION
1" = 1'-0"

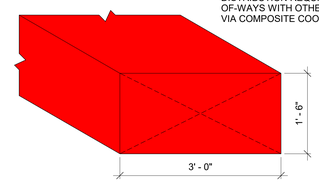


6A TYPICAL FLOOR SUPPORT CONVEYOR LEG DETAIL1
3" = 1'-0"



4A WIREWAY ENVELOPE - FLOOR SUPPORED CONVEYOR CONDUIT ROUTING
1" = 1'-0"

NOTE:
DIMENSIONS WIL VARY DEPENDING ON PDP AND MCP DISTRIBUTION REQUIREMENTS. COORDINATE RIGHT-OF-WAYS WITH OTHER DISCIPLINES AS REQUIRED VIA COMPOSITE COORDINATION DRAWINGS.



2A WIREWAY ENVELOPE - PDP TO MCP CONDUIT
1" = 1'-0"

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Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

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JAMIE L. RHEE
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Irving, TX 75063

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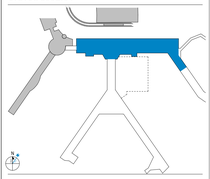
60% DESIGN
PACKAGE ISSUE DATE
03/24/2023

PHASE
DD
REVISION

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01



BHS TYPICAL ATTACHMENT AND CONDUIT ROUTING DETAILS

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SHEET NUMBER
QB8.04
VOLUME:

3/20/2023 11:10:39 AM

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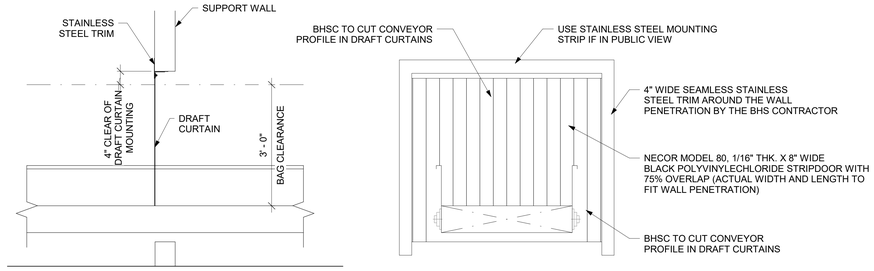
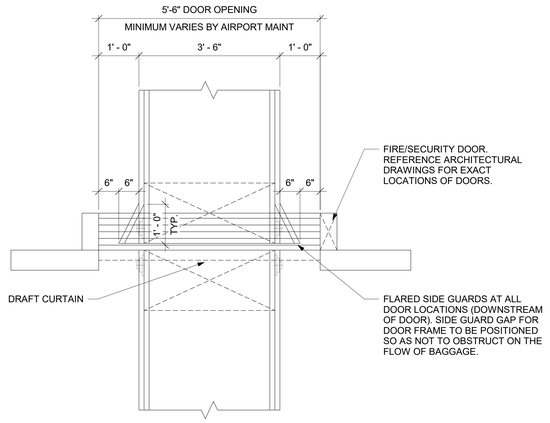
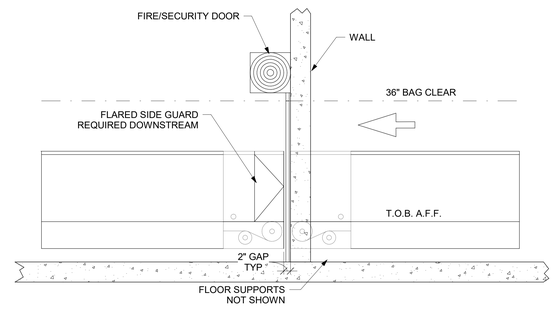


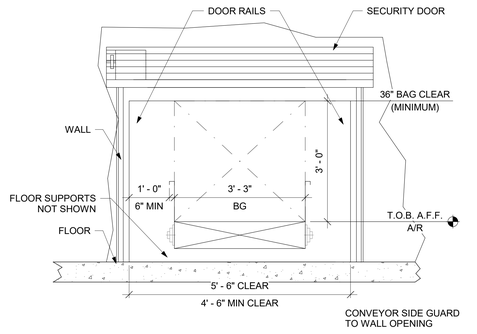
3E DRAFT CURTAIN DETAIL
3/4" = 1'-0"

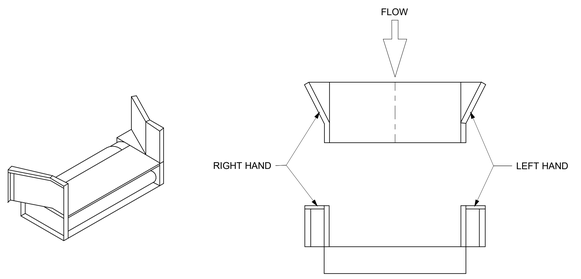


5C FIRE/SECURITY DOOR DETAIL - PLAN VIEW
3/4" = 1'-0"

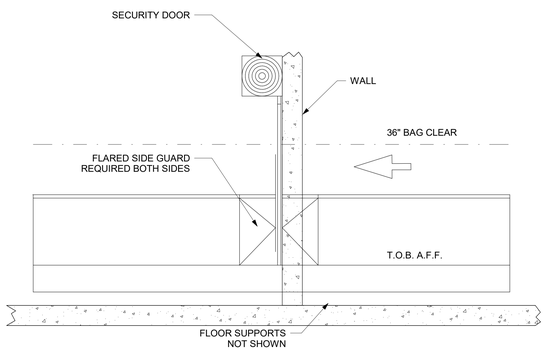


1C FIRE/SECURITY DOOR DETAIL - CLOSES TO FLOOR
3/4" = 1'-0"

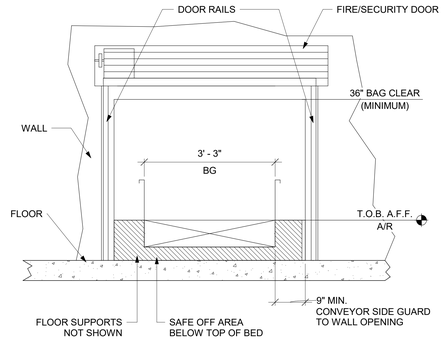




5A TYPICAL SIDE GUARD FLARE DETAIL
3/4" = 1'-0"



1A SECURITY DOOR DETAIL
3/4" = 1'-0"



DRAFT - PRE-DECISIONAL

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PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

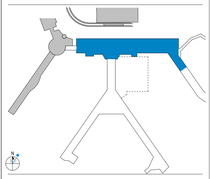
STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**



BHS TYPICAL DOOR DETAILS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER: **QB8.05**
VOLUME:

3/20/2023 11:10:42 AM

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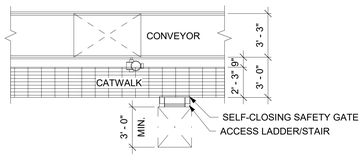
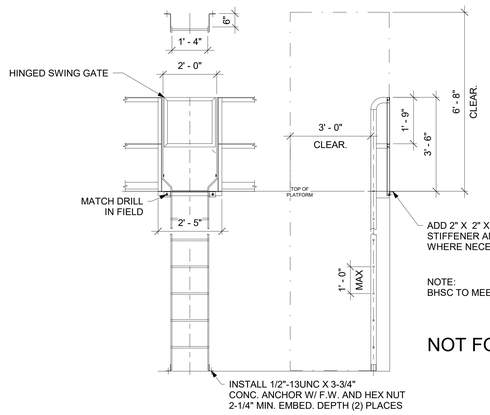


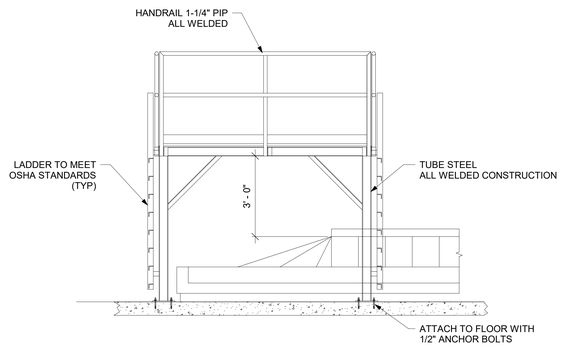
6E LADDER/STAIR LANDING WITH SAFETY GATE
1/4" = 1'-0"



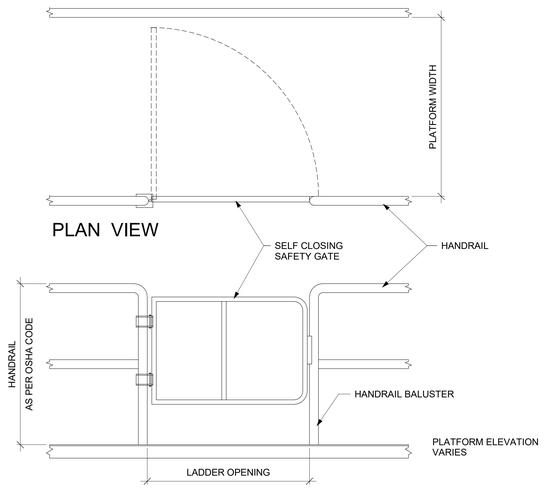
NOTE:
BHSC TO MEET ALL APPLICABLE CODES

NOT FOR CONSTRUCTION

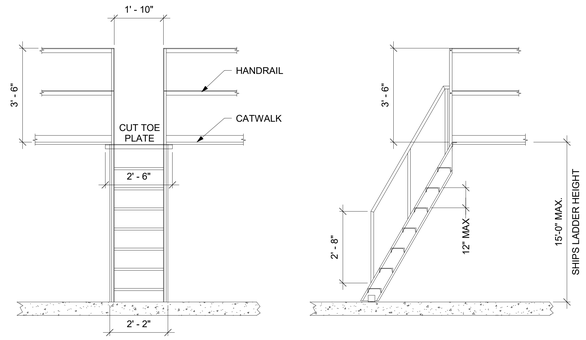
6C FIXED LADDER AT CATWALK1
1/2" = 1'-0"



6A DEVICE CROSSOVER PLATFORM
1/2" = 1'-0"



4A SAFETY GATE
1" = 1'-0"



2A SHIPS LADDER
1/2" = 1'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

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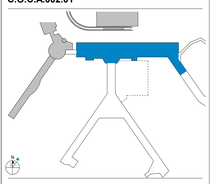

BHS TYPICAL ACCESS LADDER & STAIR DETAILS

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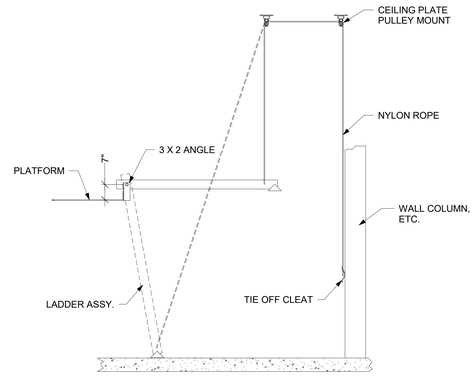
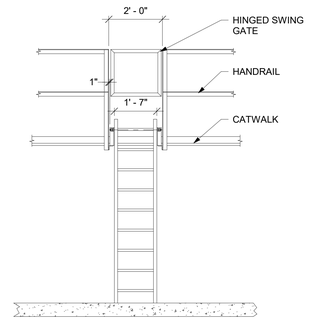
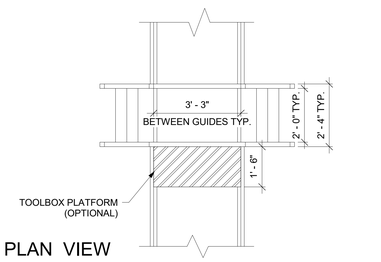
SHEET NUMBER VOLUME:
QB8.06

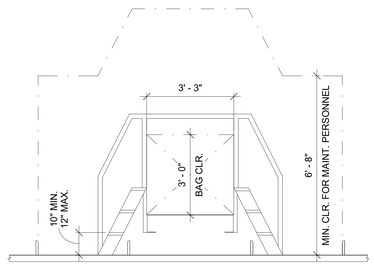


1D SWING DOWN LADDER
1/2" = 1'-0"



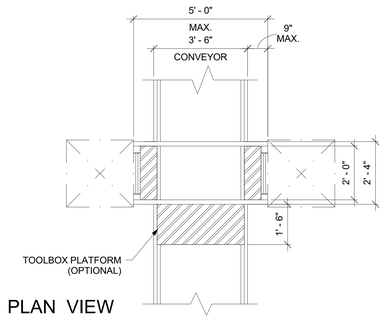


PLAN VIEW

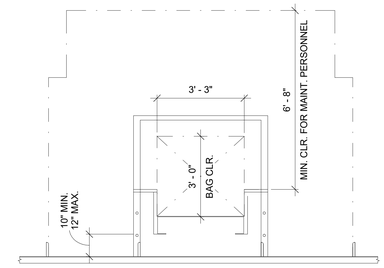


ELEVATION VIEW

6A SWING OVER LADDER
1/2" = 1'-0"

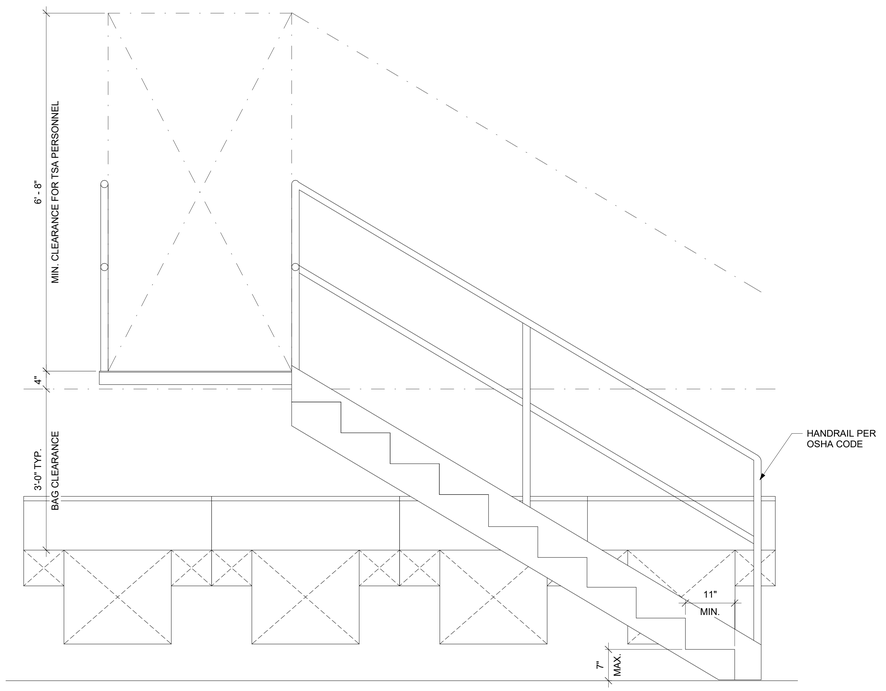


PLAN VIEW



ELEVATION VIEW

4A SWING OVER PLATFORM LADDER
1/2" = 1'-0"



1A TSA ACCESS STAIR
1" = 1'-0"

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CONSTRUCTION

CDA
Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
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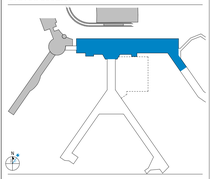

BHS TYPICAL ACCESS LADDER & STAIR DETAILS

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SHEET NUMBER
QB8.07
VOLUME:

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6E OPERATIONAL WARNING SIGN #1
3" = 1'-0"



5E OPERATIONAL WARNING SIGN #6
3" = 1'-0"



4E OPERATIONAL WARNING SIGN #11
3" = 1'-0"



2E OPERATIONAL WARNING SIGN #16
3" = 1'-0"



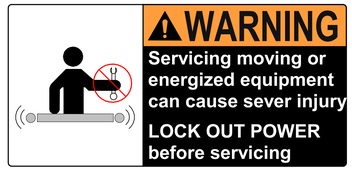
6D OPERATIONAL WARNING SIGN #2
3" = 1'-0"



5D OPERATIONAL WARNING SIGN #7
3" = 1'-0"



4D OPERATIONAL WARNING SIGN #12
3" = 1'-0"



2D OPERATIONAL WARNING SIGN #17
3" = 1'-0"



6C OPERATIONAL WARNING SIGN #3
3" = 1'-0"



5C OPERATIONAL WARNING SIGN #8
3" = 1'-0"



4C OPERATIONAL WARNING SIGN #13
3" = 1'-0"



2C OPERATIONAL WARNING SIGN #18
3" = 1'-0"



6B OPERATIONAL WARNING SIGN #4
3" = 1'-0"



5B OPERATIONAL WARNING SIGN #9
3" = 1'-0"



4B OPERATIONAL WARNING SIGN #14
3" = 1'-0"



6A OPERATIONAL WARNING SIGN #5
3" = 1'-0"

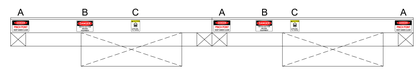


5A OPERATIONAL WARNING SIGN #10
3" = 1'-0"



4A OPERATIONAL WARNING SIGN #15
3" = 1'-0"

NOTE: BHS CONTRACTOR SHALL SUBMIT ALL SAFETY SIGNAGE AND TYPICAL PLACEMENT FOR REVIE AND APPROVAL.



A



TO BE LOCATED ON CONVEYORS WHERE THERE ARE EXPOSED MOVING PARTS WHICH MUST BE GUARDED TO FACILITATE FUNCTION, I.E. ROLLERS, PULLEYS, SHAFTS, ETC.

B



TO BE PLACED ALONG BOTH SIDES OF CONVEYORS SINCE THESE CONVEYORS PROVIDE SURFACES AND PROFILES ATTRACTIVE, BUT HAZARDOUS, FOR CLIMBING, SITTING, WALKING OR RIDING

C



GENERAL PURPOSE LAVEL TO WARN MAINTENANCE PERSONNEL THAT CONVEYORS SHOULD BE SHUT OFF AND LOCKED OUT PRIOR TO SERVICING; EXAMPLES: TAKE-UPS, LUBRICATION POINTS WHICH REQUIRE THE REMOVAL OF THE GUARDS.

2A SAFETY SIGNAGE PLACEMENT (TYPICAL)
3/8" = 1'-0"

3/20/2023 11:10:53 AM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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MAYOR

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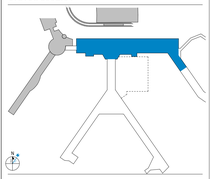

BHS TYPICAL SAFETY SIGNAGE

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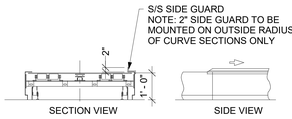
SHEET NUMBER: **QB8.08**
VOLUME:

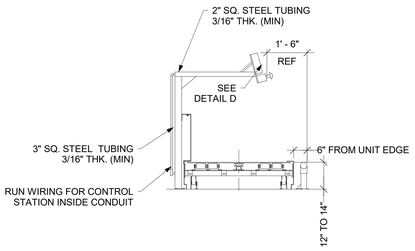


DETAIL A

2" S/S SIDE GUARD DETAIL FOR FLAT PLATE CLAIM DEVICE 90° OUTSIDE RADIUS. (PUBLIC AREA ONLY)

6E FLAT PLATE CLAIM DEVICE - DETAIL A

1/2" = 1'-0"

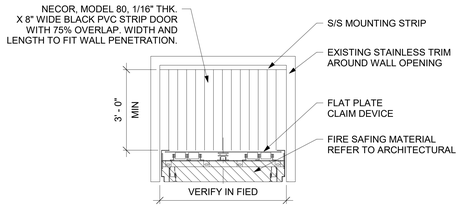


DETAIL B

STANCHION-MOUNTED CONTROL STATION AND SIDE GUARD DETAIL FOR FLAT PLATE CLAIM DEVICE (NON-PUBLIC AREAS ONLY)

6D FLAT PLATE CLAIM DEVICE - DETAIL B

1/2" = 1'-0"

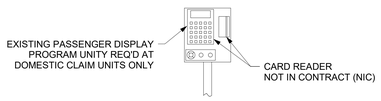


DETAIL C

WALL PENETRATION DETAIL

6C FLAT PLATE CLAIM DEVICE - DETAIL C

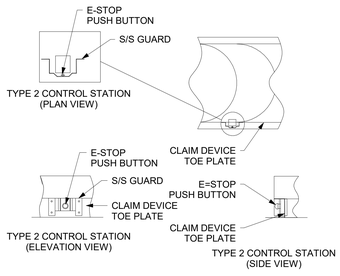
1/2" = 1'-0"



DETAIL D

6B FLAT PLATE CLAIM DEVICE - DETAIL D

1/2" = 1'-0"

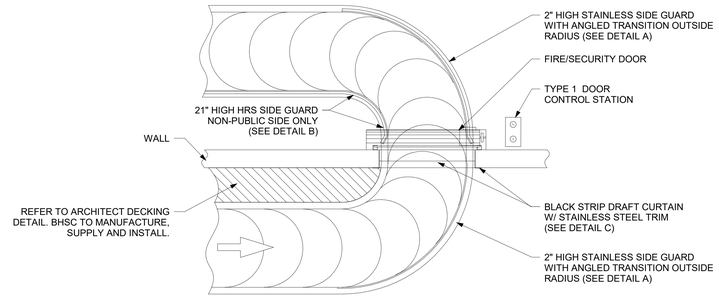


DETAIL E

TYPICAL E-STOP PUSH BUTTON CONTROL STATION FOR FLAT PLATE CLAIM DEVICE (PUBLIC AREAS ONLY)

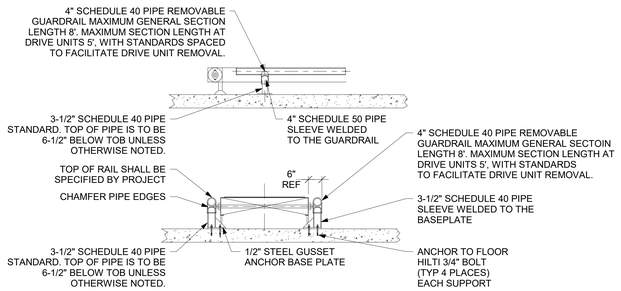
6A FLAT PLATE CLAIM DEVICE - DETAIL E

1/2" = 1'-0"



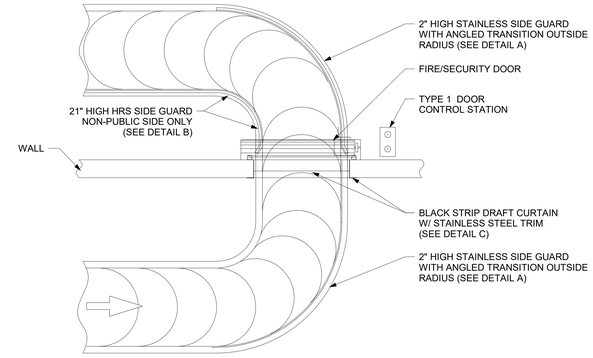
3E FLAT PLATE CLAIM DEVICE - INTERNATIONAL

1/2" = 1'-0"



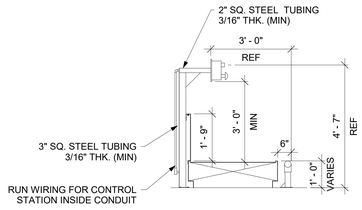
4C GUARDRAIL DETAIL

1/2" = 1'-0"



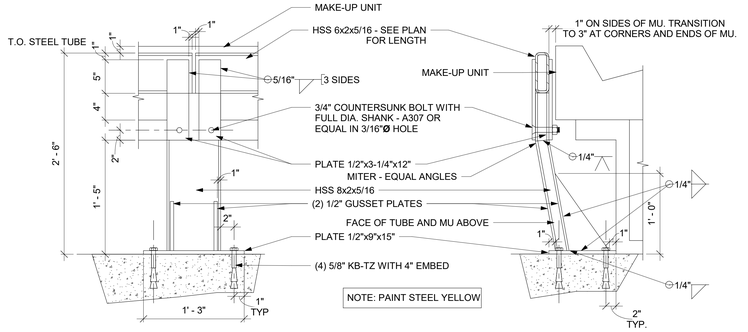
2C FLAT PLATE CLAIM DEVICE DETAIL AT WALL PENETRATION

1/2" = 1'-0"



3B FLAT PLATE DEVICE OR SORT CONVEYOR CONTROL STATION DETAIL AND STANCHION DETAIL1

1/2" = 1'-0"



3A GUARDRAIL AT MAKE-UP

1 1/2" = 1'-0"

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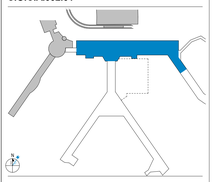

BHS TYPICAL FLAT PLATE CLAIM DEVICE DETAILS

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SHEET NUMBER: **QB8.09** — VOLUME:

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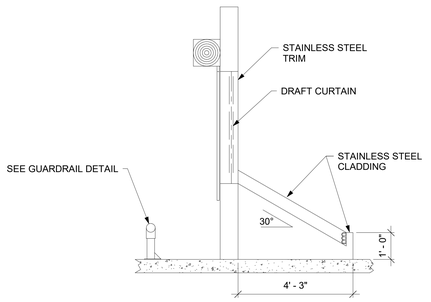
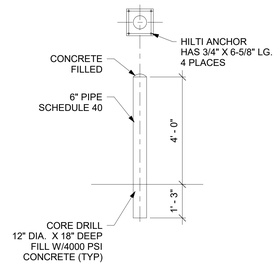


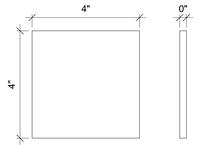
6E ODD SIZE INBOUND BAGGAGE SLIDE
1/2" = 1'-0"



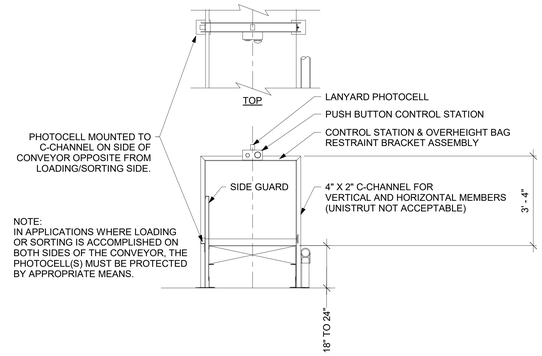
2E TYPICAL BOLLARD2
1/2" = 1'-0"

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE ALL BURRS AND SHARP EDGES.
2. MAT'L: 1/4" STEEL PLATE.
3. FINISHED TO BE DETERMINED BY OWNER.



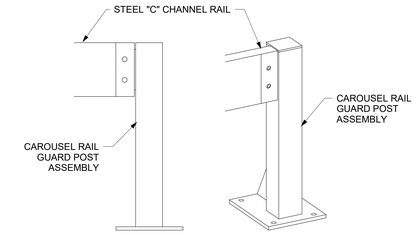
6D RAIL POST CAP (SOUTHWEST)
6" = 1'-0"



4C OUTBOUND SORT / INBOUND LOAD CONVEYOR DETAIL - SINGLE DECK
1/2" = 1'-0"

NOTES: UNLESS OTHERWISE SPECIFIED

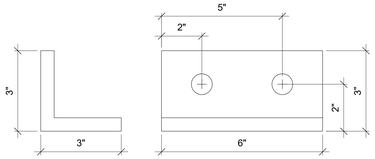
1. MOUNTED HARDWARE TO BE DETEMINED



2C TYPICAL "C" CHANNEL RAIL GUARD POST ASSEMBLY
1 1/2" = 1'-0"

NOTES: UNLESS OTHERWISE SPECIFIED

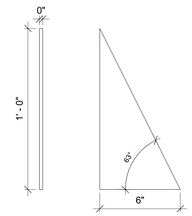
1. REMOVE ALL BURRS AND SHARP EDGES.
2. MAT'L: 3" x 3" x 1/2" STEEL ANGLE.
3. FINISHED TO BE DETERMINED BY OWNER.



6C POST MOUNTING FLANGE (SOUTHWEST)
6" = 1'-0"

NOTES: UNLESS OTHERWISE SPECIFIED

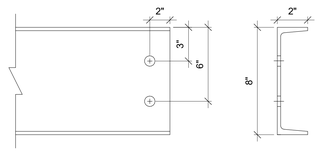
1. REMOVE ALL BURRS AND SHARP EDGES.
2. MAT'L: 1/4" STEEL PLATE.
3. FINISHED TO BE DETERMINED BY OWNER.



6A POST MOUNTING RIB (SOUTHWEST)
3" = 1'-0"

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE ALL BURRS AND SHARP EDGES.
2. MAT'L: c8 x 11.5 STEEL C CHANNEL STRETCH FORMING PROCESS TO BE INCORPORATED TO REQUIRED RADIUS AND LENGTH.
3. FINISHED TO BE DETERMINED BY OWNER.



4A STEEL "C" CHANNEL RAIL (SOUTHWEST)
3" = 1'-0"

3/20/2023 11:11:00 AM

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

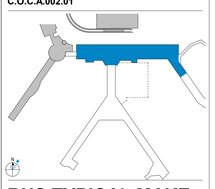
STAMPING CONSULTANT
Introba
6440 N Belt Line Rd #125
Irving, TX 75063

NOTES

REVISION

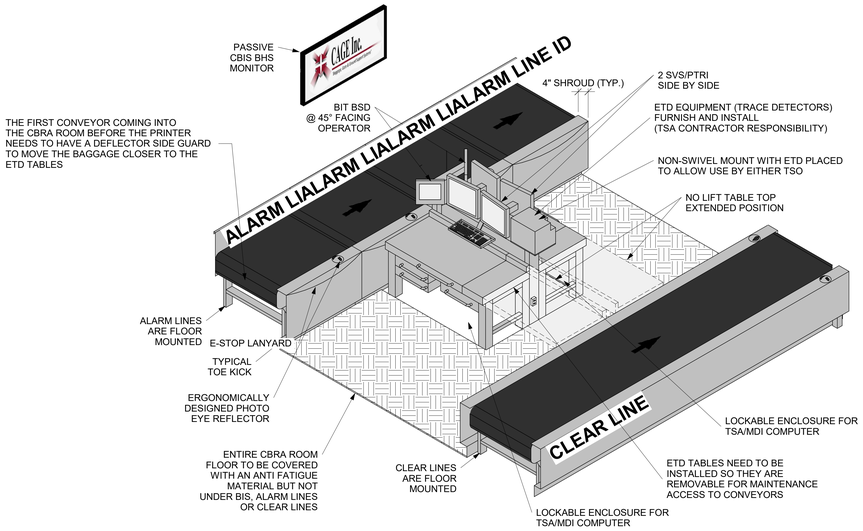
NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION:
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**



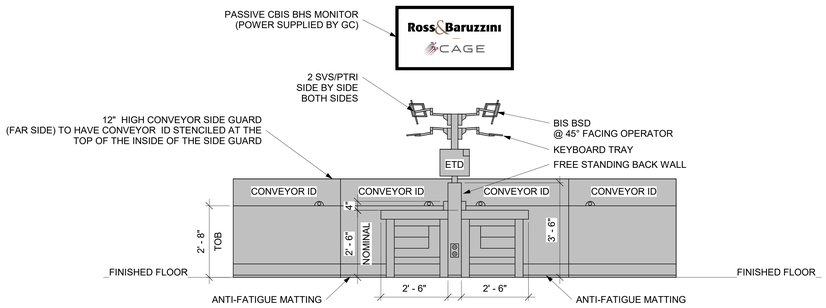
BHS TYPICAL MAKE UP AND CLAIM DEVICE DETAILS

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER: **QB8.10**
VOLUME:



6D TYPICAL BAG INSPECTION STATION - ISOMETRIC

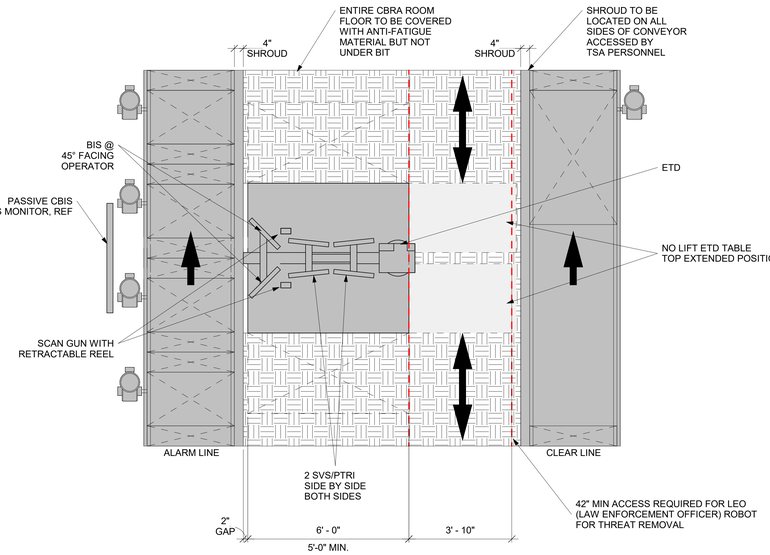
1/4" = 1'-0"



SIDE VIEW

3D TYPICAL ETD WORKSTATION LAYOUT - SECTION

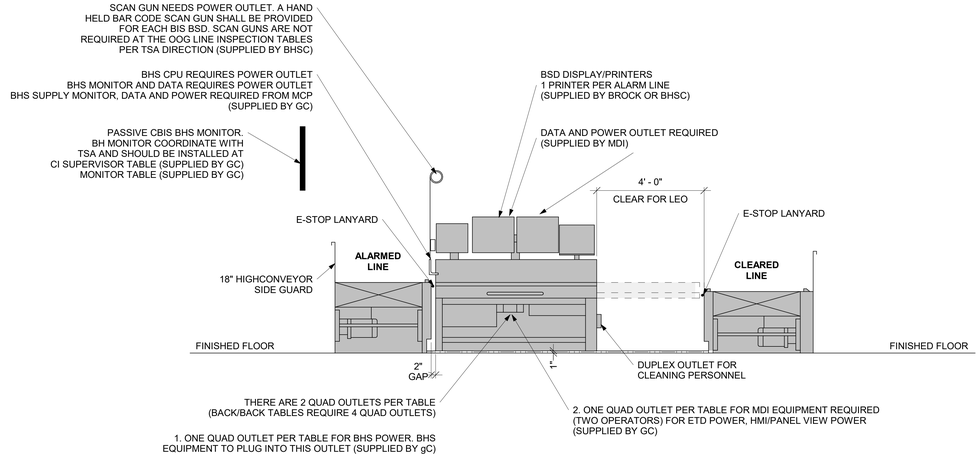
1/2" = 1'-0"



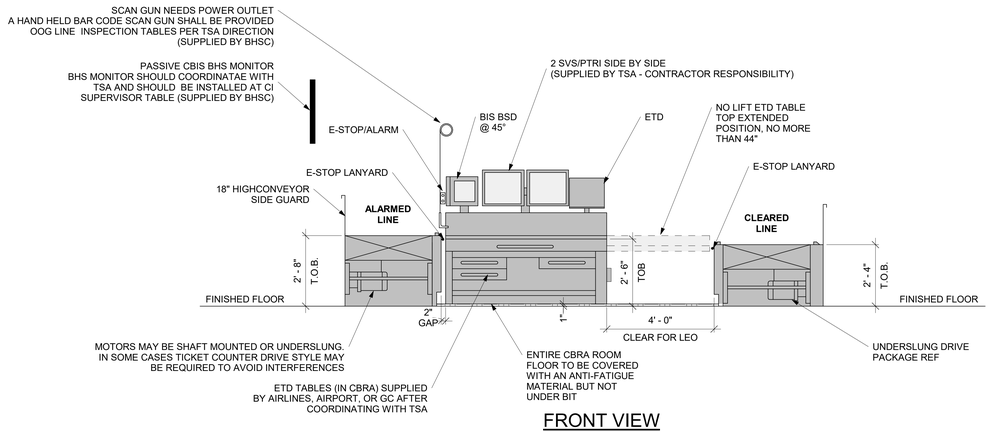
TOP VIEW

6C TYPICAL ETD WORKSTATION LAYOUT - PLAN

1/2" = 1'-0"



BACK VIEW



FRONT VIEW

3A TYPICAL ETD WORKSTATION LAYOUT - ELEVATION

1/2" = 1'-0"

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NOT FOR CONSTRUCTION

CDA
Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

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STAMPING CONSULTANT
Introba
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Irving, TX 75063

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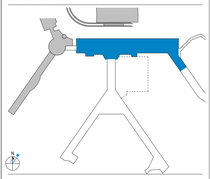

BHS TYPICAL CBRA

DRAWN BY: **DS,SK,JG** CHECKED BY: **AM**
SHEET NUMBER
QB8.11
VOLUME:

3/20/2023 11:11:04 AM

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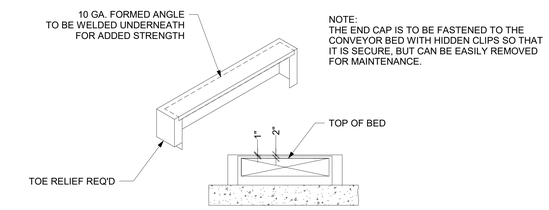
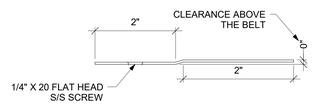
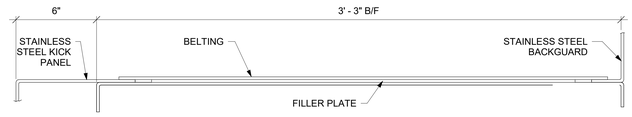


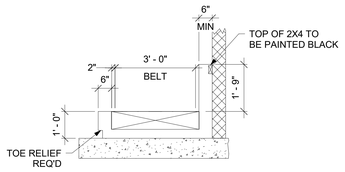
6E TICKET COUNTER CONVEYOR - END CAP DETAIL
1/2" = 1'-0"



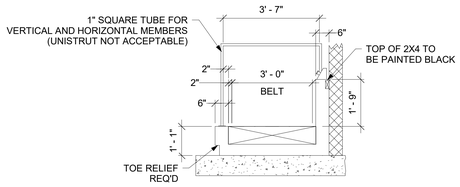
3B BELT GUARD DETAIL
12" = 1'-0"



3A FILLER PLATE DETAIL
3" = 1'-0"



2B TICKET COUNTER CONVEYOR - SECTION
1/2" = 1'-0"



2A TICKET COUNTER CONVEYOR WITH OVERHEIGHT BAR
1/2" = 1'-0"

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PRE-DECISIONAL

NOT FOR
CONSTRUCTION

CDA
Chicago Department of Aviation

CITY OF CHICAGO
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MAYOR

CHICAGO DEPARTMENT OF AVIATION
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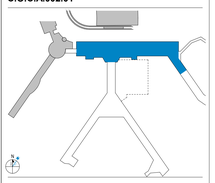

BHS TICKET LINE DETAILS

DRAWN BY: **DS**
CHECKED BY: **AM**
SHEET NUMBER
VOLUME:

QB8.12

3/20/2023 11:11:07 AM

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SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

1. FIELD VERIFY HORIZONTAL FP RUNS TO ACCOMMODATE NEW LL FLOOR PENETRATIONS

DEMOLITION SHEET NOTES

1. EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.
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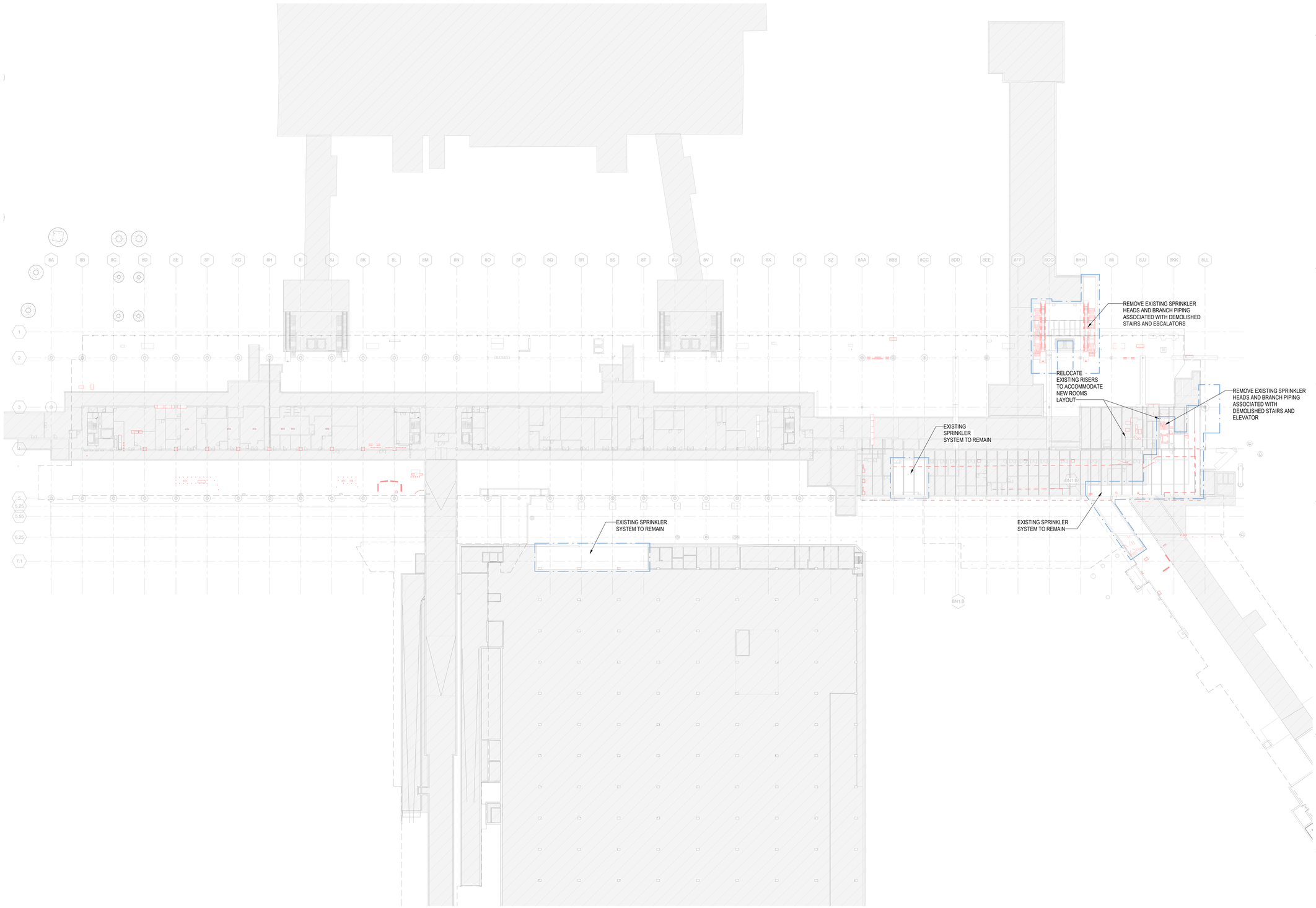
3. FP EXISTING PIPING TO REMAIN.
4. SPRINKLER SYSTEM MUST REMAIN IN OPERATION AT ALL TIMES DURING CONSTRUCTION.
5. AREAS WHICH WILL BE UNPROTECTED BY SPRINKLER COVERAGE DUE TO CONSTRUCTION ACTIVITIES MUST BE PROVIDED WITH A FIRE WATCH FOR THE DURATION OF THE SHUTDOWN.
6. SCHEDULE SHUTDOWNS REQUIRED TO PERFORM WORK WITH PLANT PERSONNEL 2 WEEKS PRIOR TO COMMENCING WORK.
7. AREAS NOT HIGH LIGHTED ON PLAN SHALL REMAIN ACTIVE AT ALL TIMES. EXISTING SPRINKLERS TO REMAIN.



1A OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
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STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

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ISSUANCE: **60% DESIGN** — PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD** — REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - BASEMENT LEVEL

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER VOLUME: **2**

FPD1.1.01

3/22/2023 1:43:36 PM

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SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

DEMOLITION SHEET NOTES

1. EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.
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6. SCHEDULE SHUTDOWNS REQUIRED TO PERFORM WORK WITH PLANT PERSONNEL 2 WEEKS PRIOR TO COMMENCING WORK.
7. AREAS NOT HIGH LIGHTED ON PLAN SHALL REMAIN ACTIVE AT ALL TIMES. EXISTING SPRINKLERS TO REMAIN.

FP ZONES 1&2, SEE DWG FP1.1.02
REMOVE ALL FP BRANCHES PIPING IN THIS
ZONES. ALL RISERS TO BE DISCONNECTED
TO THE NEAREST FITTINGS IN BASEMENT LEVEL

FP ZONES 5&6, SEE DWG FP1.1.02
REMOVE ALL FP BRANCHES PIPING IN THIS
ZONES. ALL RISERS TO BE DISCONNECTED
TO THE NEAREST FITTINGS IN BASEMENT LEVEL

CONTRACTOR TO DEMOLISH EXISTING FIRE
PROTECTION BRANCH PIPING, HEADS, ETC,
AND STORED IN A SECURE AREA FOR
REUSE.

CONTRACTOR TO DEMOLISH EXISTING FIRE
PROTECTION BRANCH PIPING, HEADS, ETC,
WITHIN HATCHED AREA AND STORED IN A
SECURE AREA FOR REUSE.

EXISTING DRY SPRINKLER
SYSTEM TO REMAIN

EXISTING DRY VALVE
WITH AIR COMPRESSOR
TO REMAIN

1A OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - LOWER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

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MILHOUSE

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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KEYPLAN

OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - LOWER LEVEL

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER VOLUME: **2**

FPD1.1.02

3/19/2023 9:35:38 PM

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SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

DEMOLITION SHEET NOTES

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EXISTING SPRINKLER SYSTEM TO REMAIN

EXISTING SPRINKLER SYSTEM TO REMAIN

EXISTING SPRINKLER SYSTEM TO REMAIN

EXISTING SPRINKLER SYSTEM TO REMAIN

CONTRACTOR TO DEMOLISH EXISTING FIRE PROTECTION BRANCH PIPING, HEADS, ETC, WITHIN MODIFIED AREA AND STORED IN A SECURE AREA FOR REUSE.

CONTRACTOR TO DEMOLISH EXISTING FIRE PROTECTION BRANCH PIPING, HEADS, ETC, WITHIN MODIFIED AREA AND STORED IN A SECURE AREA FOR REUSE.

CONTRACTOR TO DEMOLISH EXISTING FIRE PROTECTION BRANCH PIPING, HEADS, ETC, WITHIN MODIFIED AREA AND STORED IN A SECURE AREA FOR REUSE.

1A OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - UPPER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
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MILHOUSE

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PHASE **DD**
REVISION **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN

OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - UPPER LEVEL

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER VOLUME: **2**

FPD1.1.03

3/19/2023 9:36:20 PM

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SHEET LEGEND

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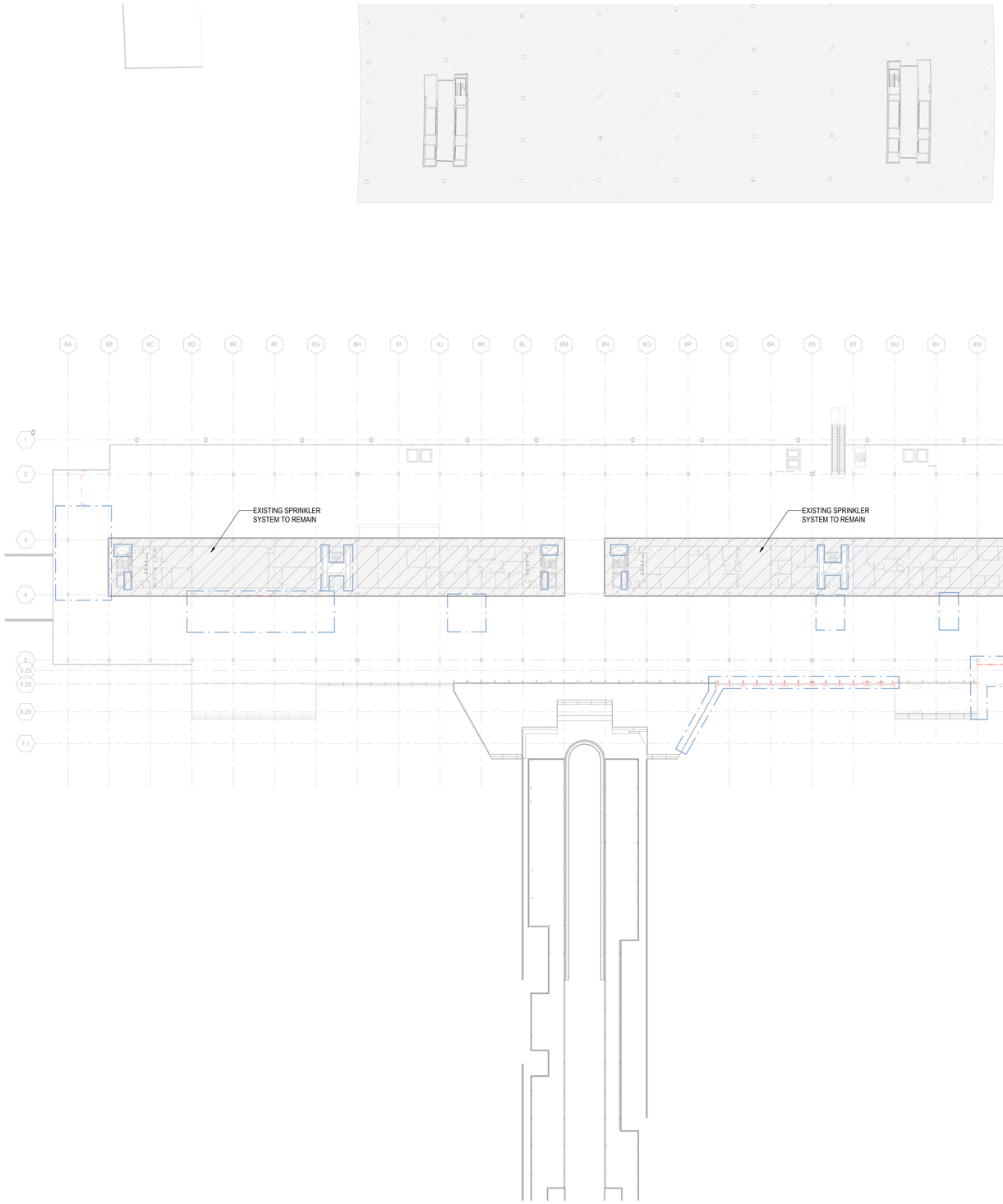

1A OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
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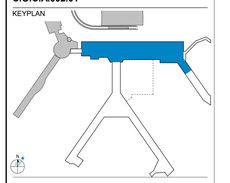
C.O.C.A.002.01

KEYPLAN



OVERALL FIRE PROTECTION ZONE DEMOLITION PLAN - MEZZANINE LEVEL

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER VOLUME: **2**

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DESIGN CRITERIA

ENTIRE WET SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED TO MEET FOLLOWING CRITERIA:

1. LIGHT HAZARD OCCUPANCY - OFFICES, TOILET ROOMS: DENSITY 0.10 GPM PER SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD 225 SQ.FT.

2. ORDINARY 1 HAZARD OCCUPANCY - STORAGE, MECHANICAL ROOMS, PASSENGER PUBLIC AREAS, TOILET ROOMS(PASSENGERS), AIRLINE CLUB(S), AND OTHER PASSENGER PUBLIC AREAS UNLESS NOTED OTHERWISE: DENSITY 0.15 GPM PER SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ.FT.

3. ORDINARY 2 HAZARD OCCUPANCY - CONCESSIONS, RETAIL AREAS, BAGGAGE HANDLING AREAS: DENSITY 0.20 GPM PER SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ.FT

4. MAXIMUM VELOCITY WITHIN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND.

5. MINIMUM PRESSURE AT SPRINKLER HEAD 7 PSI. WHERE A HIGHER MINIMUM OPERATING PRESSURE FOR THE DESIRED APPLICATION IS SPECIFIED IN THE LISTING OF THE SPRINKLER, THIS HIGHER PRESSURE SHALL BE REQUIRED PER NFPA 13, PARAGRAPH 23.4.4.11.2.

6. MECHANICAL OUTLET/HOLE CUT FITTINGS SHALL NOT BE PERMITTED FOR USE.

7. SPRINKLER SHALL BE UPRIGHT OR PENDANT, K-FACTOR 8.0TEMPERATURE RATING 175 DEGREE F.

8. WHENEVER ROLL GROOVED CONNECTIONS ARE USED, ALLOWANCE FOR ADDITIONAL PRESSURE LOSS AT GROOVES SHALL BE MADE AS FOLLOWS:
   A. FOR EACH COUPLING ON STRAIGHT RUN INCLUDING STRAIGHT FLOW THROUGH TEE OR CROSS: ADD 1 EQUIVALENT FOOT OF PIPE.
   B. FOR EACH COUPLING AT ELBOW, TEE OR CROSS WHERE DIRECTION OF FLOW CHANGES: ADD 2 EQUIVALENT FEET OF PIPE.

9. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA-13, PARAGRAPH 23.4.3.

10. DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA-13, PARAGRAPH 7.4.30.1.2.

11. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.

12. RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 5% PRESSURE SAFETY MARGIN, I.E. EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.

13. SYSTEM AREA OF OPERATION SHALL BE INCREASED BY 30 PERCENT WITHOUT REVISING DENSITY FOR DRY PIPE SYSTEM AND ON SLOPED CEILING IN ACCORDING WITH NFPA 13.

GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CHICAGO FIRE CODE, CHICAGO (2019) BUILDING CODE, NATIONAL FIRE PROTECTION CODES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

2. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS, AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILSOBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CLIENT.

3. COORDINATE FIRE PROTECTION SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS DRAINS AS REQUIRED FOR A COMPLETE APPROVED OPERATING INSTALLATION.

4. COORDINATE LOCATIONS OF ALL SPRINKLER HEADS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, HVAC DIFFUSER AND ELECTRICAL LIGHTING LAYOUT. PRIOR TO FABRICATION SUBMIT LAYOUT DRAWINGS FOR APPROVAL.

5. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL FIRE PROTECTION EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO THE CLIENT.

6. FIRE SPRINKLER CONTRACTOR SHALL PREPARE AND SUBMIT ALL NECESSARY DRAWINGS, HYDRAULIC CALCULATIONS AND DOCUMENTS FOR THE PROVISION AND INSTALLATION OF A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING, IN ACCORDANCE WITH AND SUBJECT TO THE NFPA 13 AND FIRE MARSHAL'S CODES, REGULATIONS, AND APPROVALS.

7. COORDINATE INSTALLATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.

8. THE CONTRACTOR SHALL COMPLY WITH ALL CLIENT STANDARDS, RULES & REGULATIONS.

9. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION FOR THE SPRINKLER SYSTEM PRIOR TO INSTALLATION.

10. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE A TEMPORARY STANDPIPE DURING CONSTRUCTION AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.

11. SPRINKLER SYSTEM SHALL BE INSTALLED WITH HANGERS AND SEISMIC BRACING ACCORDING TO NFPA 13 REQUIREMENTS, FROM THE EDITION YEAR REFERENCED IN THE CODE THAT IS RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION.

    A. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER SHALL NOT EXCEED 36" FOR 1" DIA. PIPES, 48" FOR 1¼" DIA. PIPES AND 60" FOR 1½" PIPES.

    B. MAXIMUM DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 12' FOR 1" AND 1¼" DIA. PIPES AND 15' FOR 1½" THROUGH 8" DIA. PIPES.

    C. SPRINKLER PIPES 1" TO 4" DIA. SHALL BE SUPPORTED BY 3/8" ALL THREAD RODS AND 3/8" HANGER ASSEMBLIES.

    D. SPRINKLER PIPES 5" THROUGH 8" DIA. SHALL BE SUPPORTED BY 1/2" ALL THREAD RODS AND 1/2" HANGER ASSEMBLIES.

    E. THERE SHALL NOT BE LESS THAN 1 HANGER PER SECTION OF PIPE.

    F. WHEN THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI AND A BRANCH LINE ABOVE THE CEILING SUPPLIES SPRINKLERS IN A PENDENT POSITION BELOW THE CEILING, THE HANGER ASSEMBLY SUPPORTING THE PIPE SUPPLYING AN END SPRINKLER IN A PENDENT POSITION, SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE.

    G. ALL ARM-OVERS GREATER THAN 24" TO SPRINKLER DROP NIPPLES SHALL BE SUPPORTED BY A HANGER. WHEN THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI, THE HANGER ASSEMBLY SUPPORTING THE ARM OVER TO THE SPRINKLER IN A PENDENT POSITION, SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE.

12. CONTRACTOR TO ADJUST SPRINKLER BRANCH PIPE ROUTING IN CONFLICT WITH HVAC WORKS AND COORDINATE SPRINKLER HEAD LOCATION WITH ARCHITECTURAL CEILING PLANS.

13. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH NEW WORK OF ALL THE OTHER TRADES IN THE FIELD.

14. CONTRACTOR WILL ENSURE THAT ADEQUATE PROTECTION AND COVERAGE ARE MET.

15. ALL FIRE PROOFING WORK AFFECTED BY NEW INSTALLATION ARE TO BE RESTORED TO ITS ORIGINAL CONDITION AND THE REQUIRED RATING.

16. QUICK RESPONSE SPRINKLERS AND STANDARD RESPONSE SPRINKLERS SHOULD NOT BE INTERMIXED.

17. SCHEDULE 40 PIPE SHALL BE PROVIDED.

18. PIPE SIZE SHOWN ON RISER DIAGRAMS SUPERSEDES PLAN INFORMATION.

19. PROVIDE SPRINKLER PROTECTION UNDER ALL MECHANICAL DUCTWORK OR OBSTRUCTIONS IN EXCESS OF 4'-0" IN WIDTH, IN EXPOSED STRUCTURAL AREEAS, IN ACCORDING WITH NFPA 13.

20. SPRINKLER GUARDS SHALL BE PROVIDED FOR ALL SPRINKLER HEADS WITHIN 7'-0" ABOVE FINISHED FLOOR AND/OR IN AREAS SUBJECT TO MECHANICAL DAMAGE.

21. PROVIDE SPARE SPRINKLER HEADS OF EACH TYPE AS REQUIRED BY NFPA 13.

DEMOLITION NOTES

1. CONFIRM AND VERIFY IN THE FIELD THE SIZES AND LOCATIONS OF ALL EXISTING PIPING TO REMAIN.

2. COMPARE EXISTING CONDITIONS TO THE SCOPE OF THE CONTRACT DOCUMENTS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE SUBMITTING BID DOCUMENTS.

3. COORDINATE THE WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.

4. PROVIDE TEMPORARY FIRE PROTECTION DURING ALL CONSTRUCTION PHASES AS PER CHICAGO BUILDING CODE.

5. ANY EXISTING AREAS DAMAGED BY THIS CONTRACTOR SHALL BE PREPARED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

6. PROVIDE BARRIERS BETWEEN EXISTING AND NEW CONSTRUCTION AREAS TO LIMIT DUST, NOISE, ETC., AS COORDINATED WITH THE ARCHITECT, AND CONSTRUCTION MANAGER.

7. PROTECT NON-CONSTRUCTION AREAS WITHIN THE PATH OF THE WASTE REMOVAL OF DEMOLISHED ITEMS FROM DAMAGE. SCHEDULE AND COORDINATE ROUTING WITH THE CONSTRUCTION MANAGER.

8. REMOVE DEMOLISHED SPRINKLER PIPES WITH THEIR ACCESSORIES, HANGERS, AND SUPPORTS.

9. ALL MEANS OF EGRESS SHALL BE KEPT OPEN AT ALL TIMES.

10. CONTRACTOR TO ESTABLISH AREAS FOR STORING DEMOLISHED MATERIAL AND COORDINATE WITH CONSTRUCTION MANAGER FOR APPROVAL ON LOCATION.

11. REMOVE ALL MATERIALS AND EQUIPMENT SPECIFIED OR INDICATED TO BE REMOVED BUT NOT SPECIFIED TO BE RE-INSTALLED FROM THE PREMISE.

12. WHERE THE WORK IS THE MODIFICATION OF EXISTING SYSTEMS OR STRUCTURES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF THE EXISTING DIMENSIONS, CONFIGURATION, AND CONSTRUCTION OF EXISTING ELEMENTS.

13. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE WORK. ANY DEVIATIONS FROM THE DRAWINGS MUST BE PRESENTED PRIOR TO BID SUBMISSION FOR CLARIFICATION.

14. COORDINATE AND SCHEDULE THE WORK WITH THE CONSTRUCTION MANAGER AS TO TIME OF CONSTRUCTION: E.G. AFTER OFFICE HOURS.

STANDPIPE GENERAL NOTES

1. VALVES CONTROLLING WATER SUPPLIES TO STANDPIPE SYSTEMS SHALL BE SUPERVISED IN THE OPEN POSITION (NFPA 14).

2. ALL DEVICES, VALVES, PIPE, AND FITTINGS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH NFPA 14.

3. PROVIDE NEAR THE FIRE DEPARTMENT CONNECTIONAN OUTSIDE ALARM BELL WITH A SIGN READING "SPRINKLER ALARM WHEN BELL RINGS CALL FIRE OR POLICE DEPARTMENT".

4. PROVIDE FLAT SQUARE METALLIC PLATE NEAR THE STANDPIPE SIAMESE CONNECTION WITH WORD "MANUAL DRY STANDPIPE", PROVIDE SIGNAGE AT EACH FDC INDICATING WHICH STANDPIPES IN WHICH AREAS OF THE BUILDING ARE SERVED BY THAT FDC.

5. PROVIDE 2" DRAIN VALVE, LOCATED AT THE LOW POINT OF THE STANDPIPE RISER DOWNSTREAM OF THE ISOLATION VALVE, PER NFPA 14.

6. PROVIDE MAIN DRAIN TEST CONNECTION ON EACH STANDPIPE RISER WITH INSPECTOR'S TEST PLUG, PRESSURE GAUGE, ANGLE VALVE AND DRAINPIPE, PER NFPA 14.

7. ALL SIAMESE CONNECTIONS HOSE THREADS SHALL FIT THE COUPLINGS OF THE CHICAGO FIRE DEPARTMENT.

8. PROVIDE PERMANENT SIGN AT EACH HOSE VALVE ON A DRY STANDPIPE SYSTEM READING "MANUAL DRY STANDPIPE" PROVIDE SIGNAGE AT EACH HOSE VALVE INDICATING WHICH FDC SERVES THAT STANDPIPE.

9. ANY WATER SUPPLY VALVES, ISOLATION CONTROL VALVES, OR OTHER VALVES IN FEED MAINS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 14.

10. FIRE HOSE THREADS AND FITTINGS SHALL BE AS PRESCRIBED BY THE CODE ENFORCEMENT OFFICIAL.

11. PIPING IN STANDPIPE SYSTEMS SHALL BE ADEQUATELY SUPPORTED BY CLAMPS, HANGERS, AND OTHER APPROVED SUPPORTING DEVICES, IN ACCORDANCE WITH NFPA 14 .

12. LOCATE STANDPIPE HOSE CONNECTIONS IN ACCORDANCE WITH CBC, NFPA 14 . THE HOSE CONNECTION SHALL HAVE NOMINAL 2-1/2" THREADS CONFORMING TO CHICAGO FIRE DEPARTMENT STANDARDS.

13. WATER SUPPLY SHALL COMPLY WITH NFPA 14 AND CFC.

14. TEST IN ACCORDANCE WITH NFPA 14.

15. SYSTEM ACCEPTANCE SHALL BE IN ACCORDANCE WITH NFPA 14.

16. THE STANDPIPE SYSTEM COMPONENTS AND HARDWARE SHALL BE IN ACCORDANCE WITH NFPA 14.

17. ALL STANDPIPE SYSTEMS EQUIPMENT, COMPONENTS, AND MATERIALS SHALL BE COMPATIBLE AND UL OR FM LISTED.

18. APPROVED MEANS FOR DRAINING OF ALL PARTS OF STANDPIPE AND FITTINGS SHALL BE PROVIDED AS REQUIRED BY NFPA 14 .

19. ALL HANGERS, BRACING AND RESTRAINS SHALL BE IN ACCORDANCE WITH NFPA 14 AND NFPA 13

20. FIRE STOPPING SLEEVES WITH APPROVED RATING MATERIAL SHALL MAINTAIN THE FIRE RATING OF PENETRATED WALLS OR SLABS.

21. PROVIDE COLOR-CODING AND IDENTIFICATION OF STANDPIPE SYSTEM COORDINATE WITH CHICAGO FIRE DEPARTMENT.

22. THE STANDPIPE SYSTEM INCLUDING THE FIRE DEPARTMENT CONNECTIONS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200 PSI OF PRESSURE FOR ONE (1)HOUR AS REQUIRED BY NFPA 14.

SYMBOLS

SYMBOL	DESCRIPTION
F	FIRE MAIN
SP	SPRINKLER PIPING (WET)
DR	DRAIN PIPING
DSP	DRY SPRINKLER SYSTEM PIPING
PA	PREACTION SPRINKLER PIPING
DL	DELUGE SPRINKLER PIPING
	SHUT-OFF VALVE
	CHECK VALVE
	CHECK VALVE WITH ABD
	PRESSURE REDUCING VALVE
	OS & Y VALVE
	OS & Y VALVE IN VERTICAL
	ANGLE HOSE VALVE
	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE UP
	CAPPED OUTLET
	PRESSURE GAUGE W/VALVE
	DELUGE VALVE ASSEMBLY
	PREACTION VALVE ASSEMBLY
	DRY VALVE ASSEMBLY
	SPRINKLER ALARM CHECK VALVE ASSEMBLY
	SPRINKLER CONTROL ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	FREE STANDING FIRE DEPARTMENT CONNECTION
	DIRECTION OF FLOW
	PIPE BREAK
SP #	RISER DESIGNATION
#	EQUIPMENT DESIGNATION

SYMBOLS

SYMBOL	DESCRIPTION
	ELECTRIC HEAT TRACING
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO BE ABANDONED
	POINT OF DISCONNECTION FOR EXISTING WORK
	POINT OF CONNECTION NEW PIPE TO EXISTING
CG	CLEAN AGENT GASEOUS PIPING
FS	FLOW SWITCH
TS	TAMPER SWITCH
	OS & Y VALVE WITH TAMPER SWITCH
BFP	BACKFLOW PREVENTER
	SIDEWALL SPRINKLER HEAD
	EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
	DRY TYPE SIDEWALL SPRINKLER HEAD
	CONCEALED PENDENT SPRINKLER HEAD
EC	EXTENDED COVERAGE CONCEALED PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
EC	EXTENDED COVERAGE UPRIGHT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD (UNDER DUCT/EQUIPMENT)
	PENDENT SPRINKLER HEAD
EC	EXTENDED COVERAGE PENDENT SPRINKLER HEAD
	DRY TYPE PENDENT SPRINKLER HEAD
	RECESSED PENDENT SPRINKLER HEAD
EC	EXTENDED COVERAGE RECESSED PENDENT SPRINKLER HEAD
	OPEN SPRINKLER HEAD
	WINDOW SPRINKLER HEAD
	SPRINKLER WITH GUARD
	ZONE BOUNDARY
	SPRINKLER ZONE
	WATERTIGHT PIPE SLEEVE, BEAM PENETRATION
EJ	EXPANSION LOOP/JOINT

DESIGN CRITERIA LEGEND



ABBREVIATION	DESCRIPTION
A	COMPRESSED AIR, AUDIO, AMPERE
°F	FAHRENHEIT
AB	ALARM BELL
ABAN	ABANDON
ABD	AUTOMATIC BALL DROP
ACO	AIR COMPRESSOR
ACV	ALARM CHECK VALVE
AD	ACCESS DOOR, AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFFF	AQUEOUS FILM FORMING FOAM
AFG	ABOVE FINISHED GRADE
AG	AIR GAP
AGA	AMERICAN GAS ASSOCIATION
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
ALM	ALARM
AMP	AMPHERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ALARM PANEL, ACCESS PANEL
ARCH	ARCHITECT
AS	AUTOMATIC SPRINKLER
ASD	AUTOMATIC SPRINKLER DRAIN
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION & AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ASV	ANGLE STOP VALVE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	ALARM VALVE, ACID VENT, AUDIO VISUAL
AVG	AVERAGE
AW	ACID WASTE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BDVS	BY DIRECTIONAL SHUT OFF VALVE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BLKHD	BULKHEAD
BLW	BELOW / UNDERGROUND
BLWDN	BLOWDOWN
BM	BEAM
BMS	BUILDING MANAGEMENT SYSTEM
BPS	BLACK STEEL PIPE
BR	BRANCH
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BALL VALVE
CA	COMPRESSED AIR PIPING
CAP	CAPACITY, CAPACITOR
CB	CATCH BASIN, CIRCUIT BREAKER
CE	CONNECT TO EXISTING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CFSP	COMBINED FIRE STANDPIPE/SPRINKLER
CI	CAST IRON
CL	CENTERLINE, CLOSE, CLOSET
CLG	CEILING
CNDS	CONDENSATE DRAIN
COL	COLUMN
CONN	CONNECT, CONNECTION
CONT	CONTINUATION
COOR	COORDINATE
CP	CHROME PLATED, CONTROL PANEL
CR	CASING RELIEF VALVE, CONTROL RELAY, CARD READER
CTV	CONTROL VALVE
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CHECK VALVE
CVO	CAPPED AND VALVED OUTLET
CW	COLD WATER
(D)	EXISTING TO BE DEMOLISHED
dB	DECIBEL
DBA	UNIT OF SOUND LEVEL
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DIM	DIMENSION
DIPS	DOUBLE INTERLOCK PREACTION SYSTEM
DLV	DELUGE VALVE
DN	DOWN
DOM	DOMESTIC
DPAV	DRY PIPE ALARM VALVE
DR	DRAIN
DSP	DRY SPRINKLER PIPING
DWG	DRAWING
(E)/EX	EXISTING TO REMAIN
EA	EACH
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EL	ELEVATION, ELEVATOR LOBBY
ELEC	ELECTRIC, ELECTRICAL
EOV	ELECTRICALLY OPERATED SOLENOID VALVE
EQ	EQUAL
EQUIP	EQUIPMENT
(ER)	EXISTING TO BE RELOCATED
ESP	EXTERNAL STATIC PRESSURE
EXIST	EXISTING
(F)	FUTURE
F	FIRE SERVICE, FAHRENHEIT, FEMALE
F.F.	FINISH FLOOR
FACP	FIRE ALARM CONTROL PANEL
FCA	FLOOR CONTROL VALVE ASSEMBLY, FAULT CURRENT AVAILABLE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FF EL	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FL/FLR	FLOOR
FLEX	FLEXIBLE
FLTR	FILTER
FM	FACTORY MUTUAL GLOBAL
FO	FOAM PIPING, FUEL OIL
FP	FIRE PROTECTION
FPC	FIRE PUMP CONTROLLER
FPM	FEET PER MINUTE
FPMC	FIRE PUMP
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FOOT, FEET
FT HD	FOOTHEAD
FU	FIXTURE UNIT
FUD	FUNNEL DRAIN
G	GAS, GROUND, GREEN
GAL	GALLON
GALV	GALVANIZED
GAP	GRAPHIC DISPLAY ANNUNCIATOR PANEL
GC	GENERAL CONTRACTOR
GIP	GALVANIZED IRON PIPE
GLV	GLOBE VALVE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR FL	GROUND FLOOR
GV	GATE VALVE

ABBREVIATION	DESCRIPTION
H	HEIGHT
HCLG	HUNG CEILING
HDC	HANDICAPPED
HDS	HEADS
HLA	HIGH LEVEL ALARM
HORIZ	HORIZONTAL
HP	HORSEPOWER
HTR	HEATER
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HW	HOT WATER
HZ	HERTZ
IBBM	IRON BODY, BRONZE MOUNTED
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
JC	JANITORS CLOSET
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
KW	KILOWATT
(L)	LINED
LAB	LABORATORY
LAP	LOCAL ALARM PANEL
LBS	POUND(S)
LDR	LEADER
LPD	LITERS PER DAY
MA	MEDICAL AIR
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MHP	MOTOR HORSEPOWER
MIN	MINIMUM, MINUTE
MOT	MOTOR
MTD	MOUNTED
MTGHT	MOUNTING HEIGHT
N	NITROGEN
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NICU	NEONATAL INTENSIVE CARE UNIT
NO	NORMALLY OPEN, NUMBER
NP	NON-POTABLE WATER
NS	NO SPRINKLERS IN ROOM
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OR	OPERATING ROOM
OS&Y	OPEN STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
PAV	PRE-ACTION VALVE
PG	PRESSURE GUAGE
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PLD	PLENUM DRAIN
PNEU	PNEUMATIC
PO	PLUGGED OUTLET
POS	POSITIVE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSP, PA	PREACTION SPRINKLER PIPING
(R)	REMOVE EXISTING
R	REMOVE EXISTING, RISE
RCV	RISER CONTROL VALVE
RE	RELOCATE EXISTING
REC	RECESSED
REFR	REFRIGERATION
REM	REMOVABLE
REQD	REQUIRED
REV	REVISED, REVISION
RLA	RUNNING LOAD AMPERES
RM	ROOM
RO	REVERSE OSMOSIS
RPL	REPLACE EXISTING
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RV	RELIEVE VALVE
S	SOIL
SA	SHOCK ABSORBER
SD	STORM DRAIN, SMOKE DETECTOR/DAMPER
SF	SQUARE FOOT (FEET)
SL	SLEEVE
SP	SPRINKLER, SPRINKLER PIPING
SP HD	SPRINKLER HEAD
SPEC	SPECIFICATION
SQ	FT SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STP	STANDPIPE
STRUC	STRUCTURAL
SV	SECTIONAL VALVE
T	THROAT
T&P VALVE	TEMPERATURE AND PRESSURE VALVE
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TH	TEST HEADER
TOS	TOP OF SLAB
TS	TAMPER SWITCH
TW	TEMPERED WATER
TYP	TYPICAL
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
USSG	UNITED STATES STANDARD GUAGE
V	VOLT, VENT, VIDEO
VAC	VACUUM
VB	VACUUM BREAKER
VEL	VELOCITY
VERT	VERTICAL
VIF	VERIFY IN FIELD
VLV	VALVE
VO	VALVED OUTLET
VOL	VOLUME
VOLT	VOLTAGE
VOV	VALVE ON VERTICAL
W	WIDTH, WATT, WIRE, WALL PHONE, WASTE
W	WITH
W/O	WITHOUT
WFS	WATER FLOW SWITCH
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WMG	WATER MOTOR GONG
WMS	WIRE MESH SCREEN
WOG	WATER, OIL, OR GAS
WP	WORKING PRESSURE, WEATHERPROOF
WSP	WORKING STEAM PRESSURE
WT	WEIGHT
WTR	WATER
WWP	WORKING WATER PRESSURE
XP	EXPLOSION PROOF
ZCV	ZONE CONTROL VALVE

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA
Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

FIRE PROTECTION NOTES, GRAPHIC KEYS, ABBREVIATIONS

DRAWN BY: **MC**
CHECKED BY: **RH**

SHEET NUMBER
FP0.01

VOLUME: **2**

3/19/2023 7:15:23 PM

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4B-013 - T3 Improvements & Supplemental Bagroom

Discipline	Scope Description	Task(s) to be Completed
Fire Protection		
	Phasing	It is assumed that the existing bag claim will have to remain operational until new bag claim will be built and that portions of the existing systems will run simultaneously. Detailed phasing plan of cutovers within the bag room being developed by the BHS team and will need to be coordinated with the CMAR after the 60% submission. This will be further developed once the CMAR is on board.
	Program requirements	60% design assumes the following. (5) Kitchens, (2) by SSCP and (2) by the H/K concourse, and (1) in the new AA lounge. The (2) kitchens at the H/K concourse will require units on the roof Kitchenette in the USO space SSCP and restroom layouts per CDA revisions on 3/6. Mechanical will asssume old screening machines without A/C units for worst case cooling loads. Electrical and plumbing will assume new screening machnies with A/C units for worst case electrical loads and plumbing requirements. Utilities for these items are shown on the drawings. Detailed coordination with other trades will occur after the 60% submission.
	Displaced program	It is assumed program will be relocated within the building as part of this project. MEP services for these areas are shown on the drawings, however, the details of the program relocation as are to be coordinated after the 60% submission.
	Rotunda and OGT coordination	Scope of this project ends at face of concourse. ROW for future OGT conveyors within T3 are part of the T3 scope. Details of the new work and relocation of any exisitng systems within the ROW of the future OGT conveyors within T3 are in progress at this time and will be further developed and coordinated after the 60% design.There are several existing mechanical utilities that will be impacted by the future OGT conveyor ROW and will require relocation.
	Existing Conditions	Drawings are based on site visits that have occurred as of 3/8 and have not included invasive surveys to validate all existing conditions. Additional invasive surveys will be required to be performed by the contractor who will provide a report of findings prior to starting any work.
	Asset management tagging.	New equipment is being tagged using the lastest version of the asset management tags as discussed with CDA/CCA as of 12/19/22. This version is still being reviewed by the CDA and may change at a later date. Further coordination with CDA will be required after the 60% submission.
	Equipment pads	New equipment is to be provided with equipment pads per CDA specifications. Pads not yet shown on drawings and to be coordinated after the 60% submission.
	Utility routing	New and relocated utility mains (duct work, piping, and conduits) are shown but not yet coordinated with architectural, structural, or BHS elements. It is anticipated that some of the routings shown may change to resolve clashes. Coordination to take place after the 60% submission.
	Asbestos discovery and remediaton	Asbestos discovery and remediation are not anticipated as part of the scope of this project. It is assumed that the CDA will perform a study and remediation prior to the start of work for this project.

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
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FIRE PROTECTION NOTES, GRAPHIC KEYS, ABBREVIATIONS

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SHEET NUMBER **FP0.02** VOLUME: **2**

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SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

GENRAL NOTES

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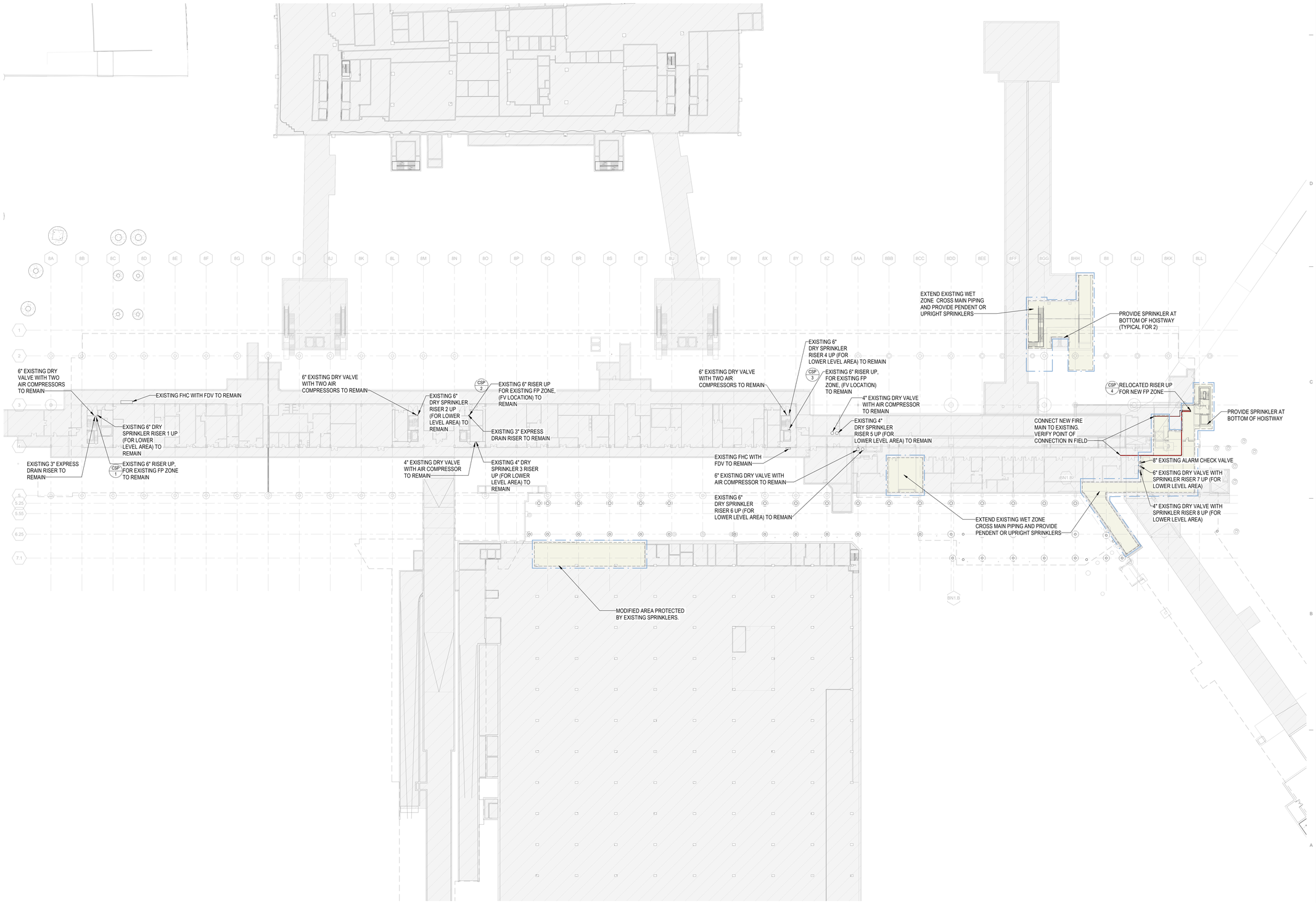
4. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED ZONES AND PROVIDING ALL CALCULATIONS REQUIRED TO THE FIRE PREVENTION BUREAU.



1A OVERALL FIRE PROTECTION ZONE PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

3/24/2023 11:55:33 AM

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MILHOUSE

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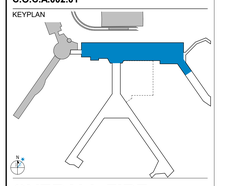
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



OVERALL FIRE PROTECTION ZONE PLAN - BASEMENT LEVEL

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER: **FP1.1.01** VOLUME: **2**

SHEET LEGEND

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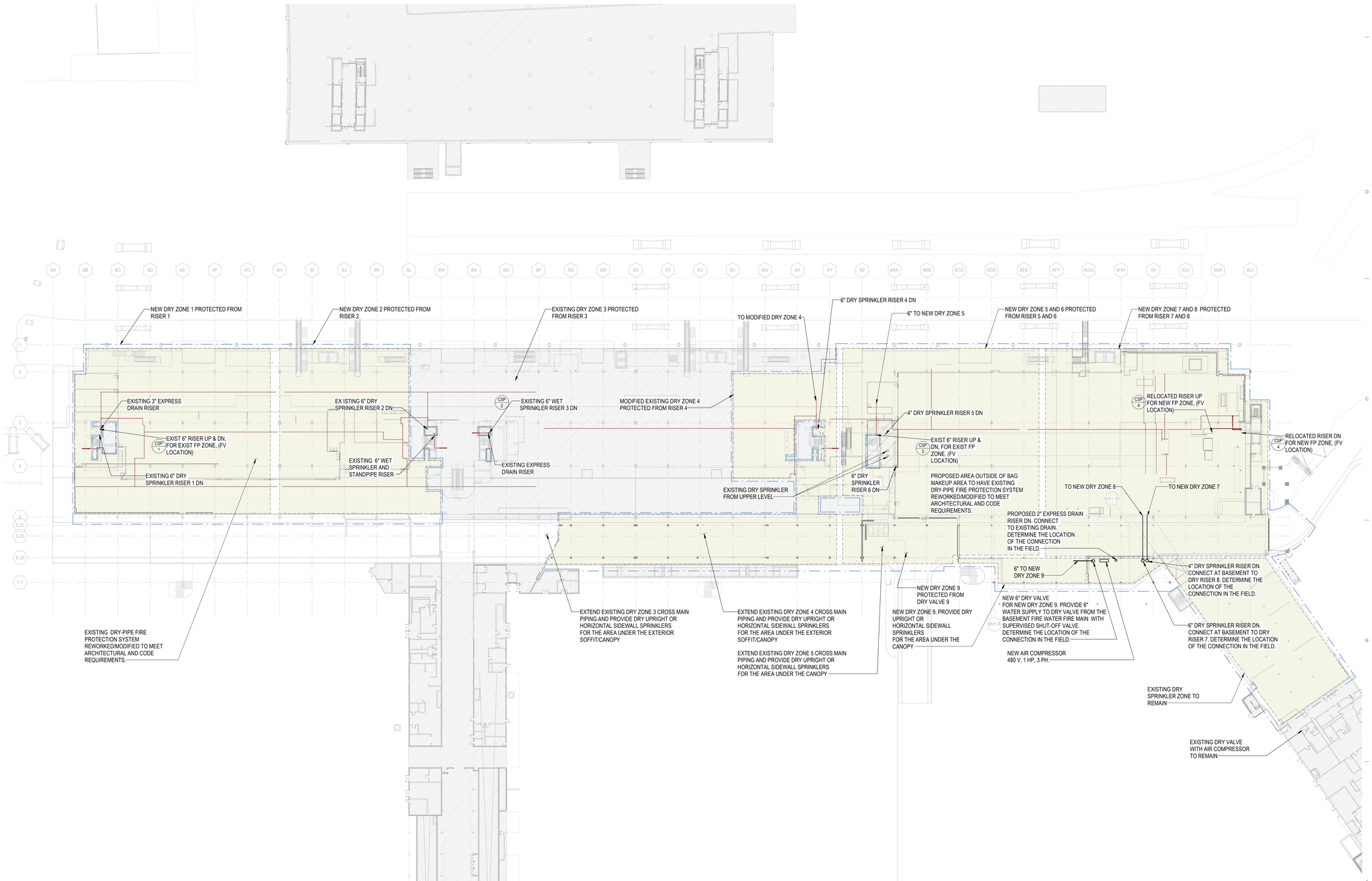

1A OVERALL FIRE PROTECTION ZONE PLAN - LOWER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

OVERALL FIRE PROTECTION ZONE PLAN - LOWER LEVEL

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SHEET NUMBER VOLUME: **2**

FP1.1.02

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SHEET LEGEND

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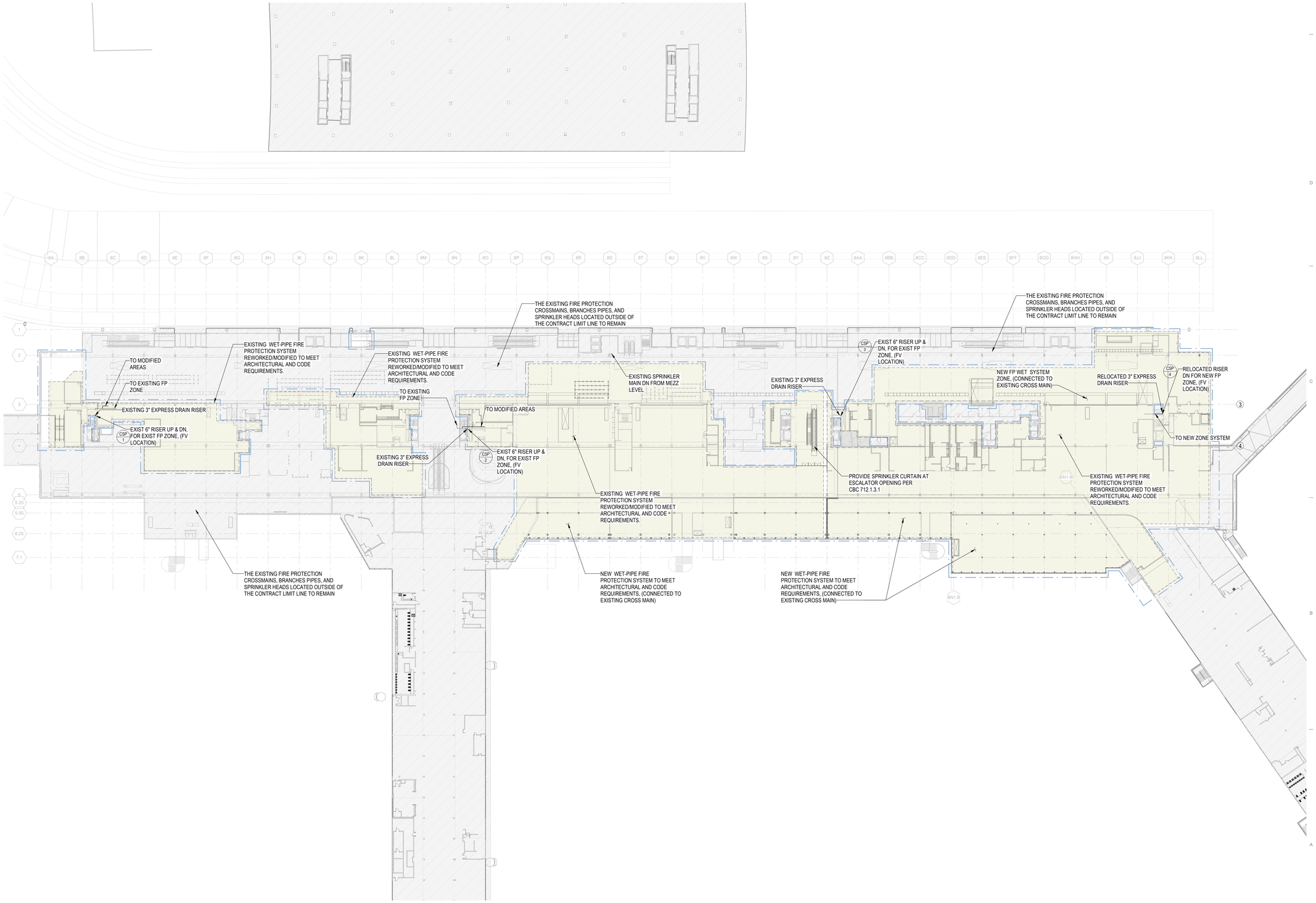

1A OVERALL FIRE PROTECTION ZONE PLAN - UPPER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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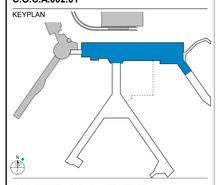
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



OVERALL FIRE PROTECTION ZONE PLAN - UPPER LEVEL

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SHEET NUMBER VOLUME: **2**

FP1.1.03

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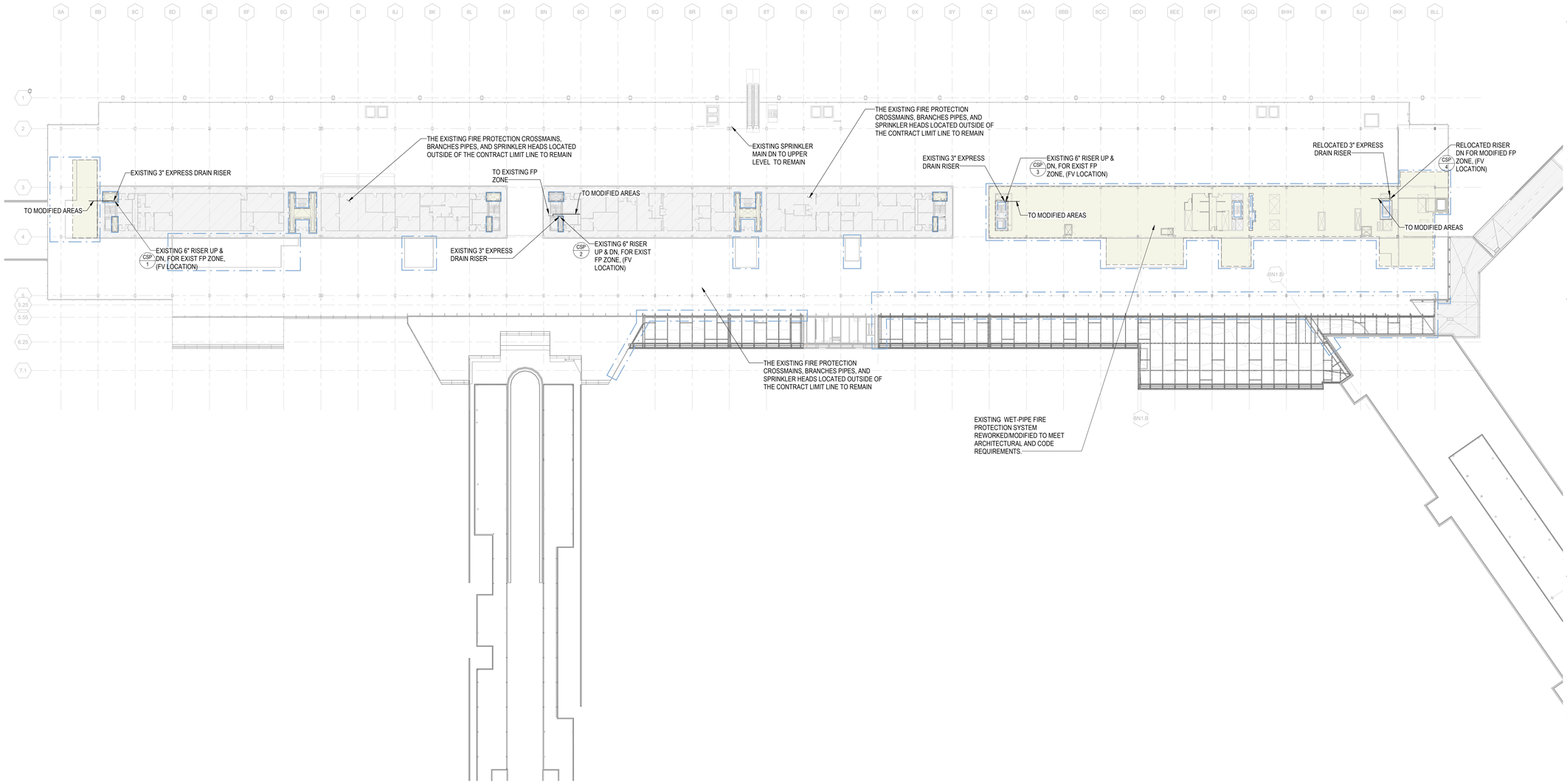

1A OVERALL FIRE PROTECTION ZONE PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

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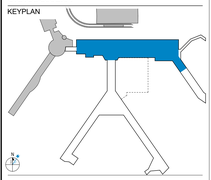
KEYPLAN



OVERALL FIRE PROTECTION ZONE PLAN - MEZZANINE LEVEL

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SHEET NUMBER
FP1.1.04
VOLUME: **2**

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SHEET LEGEND

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- CONTRACT LIMIT

SHEET NOTES:

1. THE FIRE SPRINKLER SYSTEM IN ROOMS NOT SUBJECT TO MODIFICATION TO REMAIN.
2. PROVIDE UPRIGHT SPRINKLER HEAD IN ROOMS WITHOUT CEILING. PROVIDE PENDENT SPRINKLER HEAD IN ROOMS WITH CEILING.
3. THE ROOM TO BE MODIFIED MUST BE PROTECTED BY A WET/OR DRY SPRINKLER SYSTEM CONNECTED TO THE APPROPRIATE EXISTING PROTECTION ZONE.

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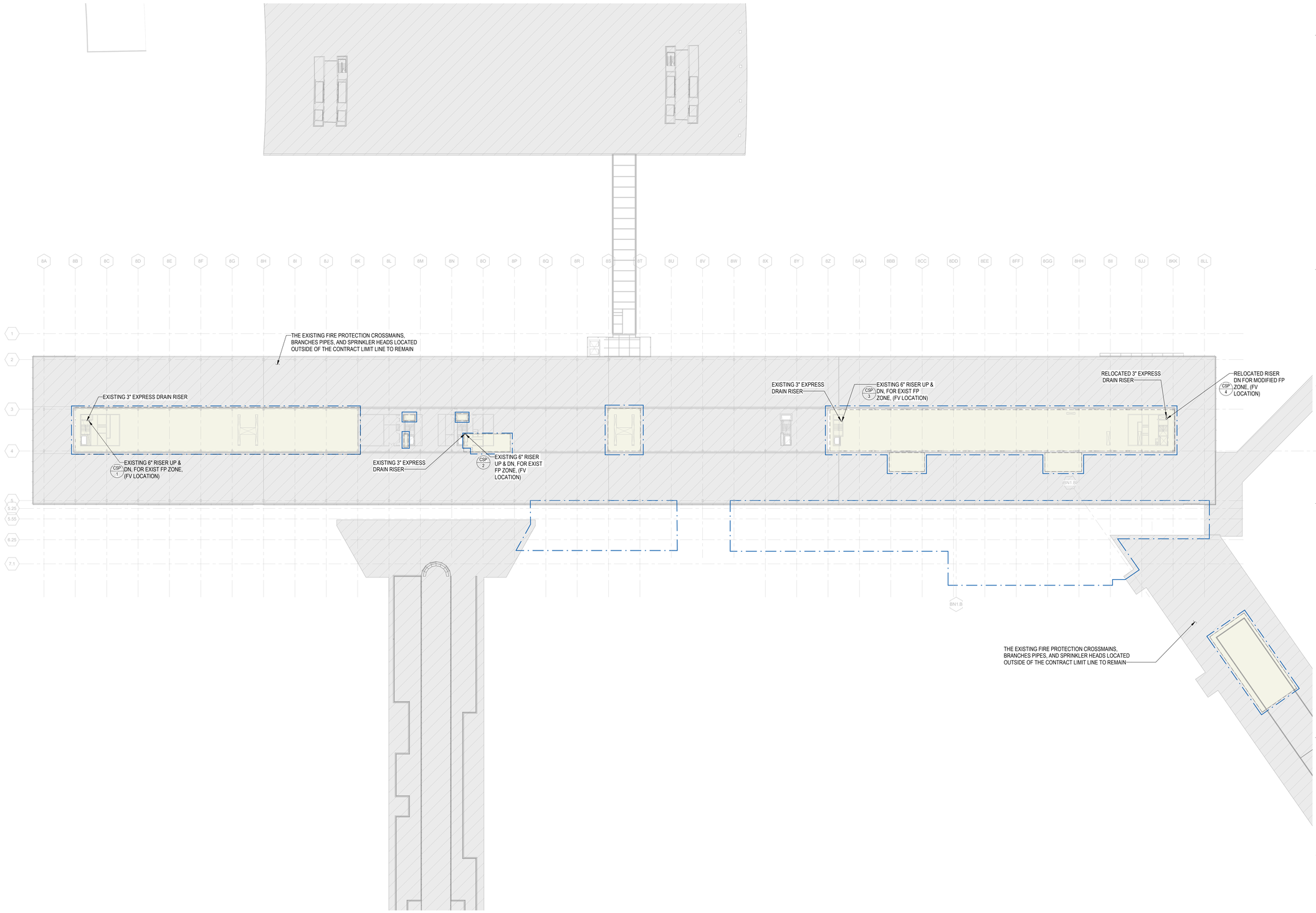

1A OVERALL FIRE PROTECTION PLAN - PENTHOUSE
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0 16'-0" 32'-0" 64'-0" 128'-0"

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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KEYPLAN

OVERALL FIRE PROTECTION ZONE PLAN - PENTHOUSE

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SHEET NUMBER: **FP1.1.05** VOLUME:

3/22/2023 12:30:56 PM

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SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
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- CONTRACT LIMIT

SHEET NOTES:

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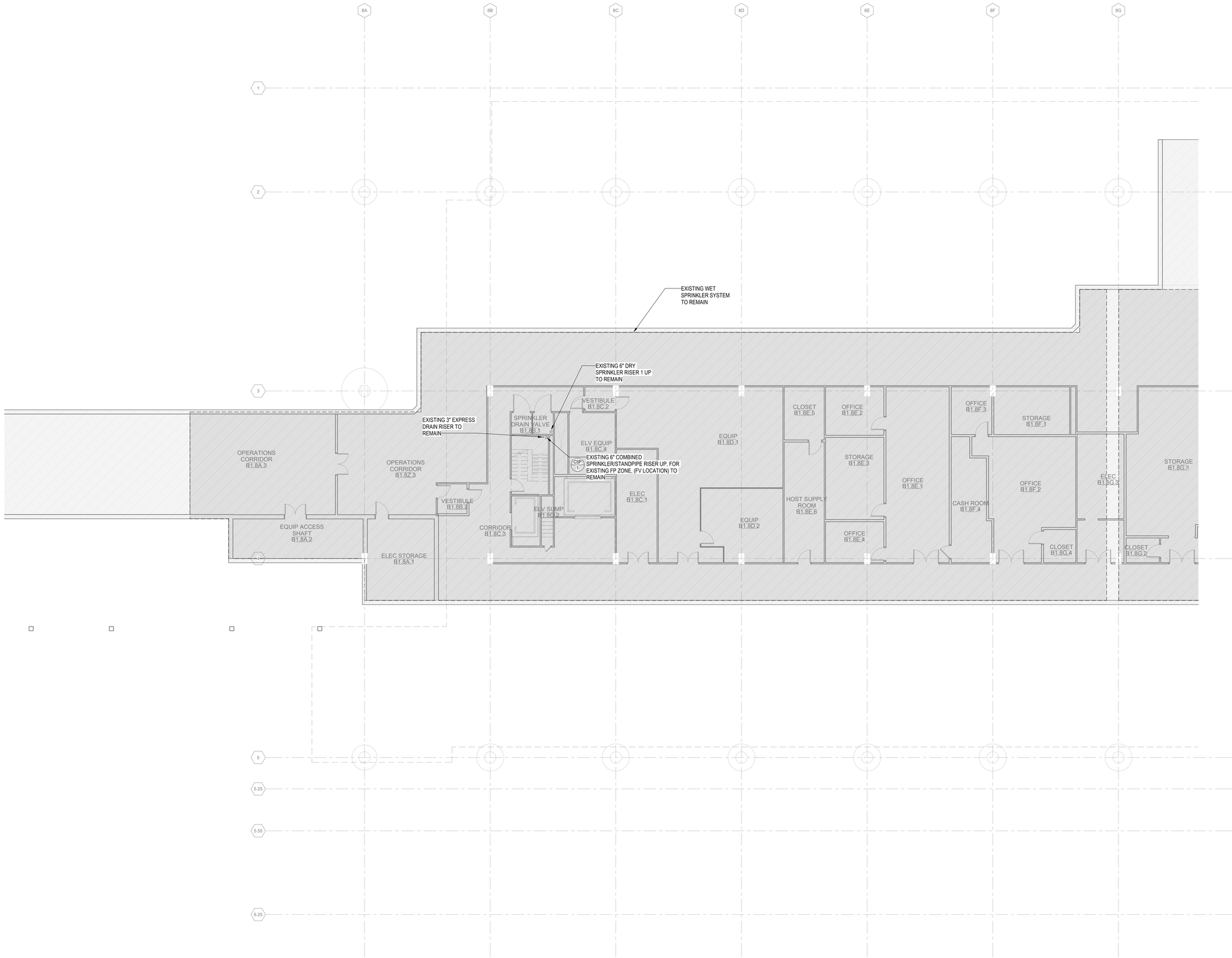

1A FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2D

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 12:31:19 PM

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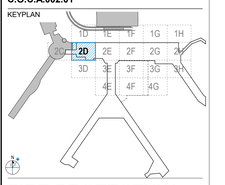

FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2D

DRAWN BY: **MC**
CHECKED BY: **RH**
SHEET NUMBER
VOLUME: **2**

FP2.1.01.2D

SHEET LEGEND

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GENRAL NOTES

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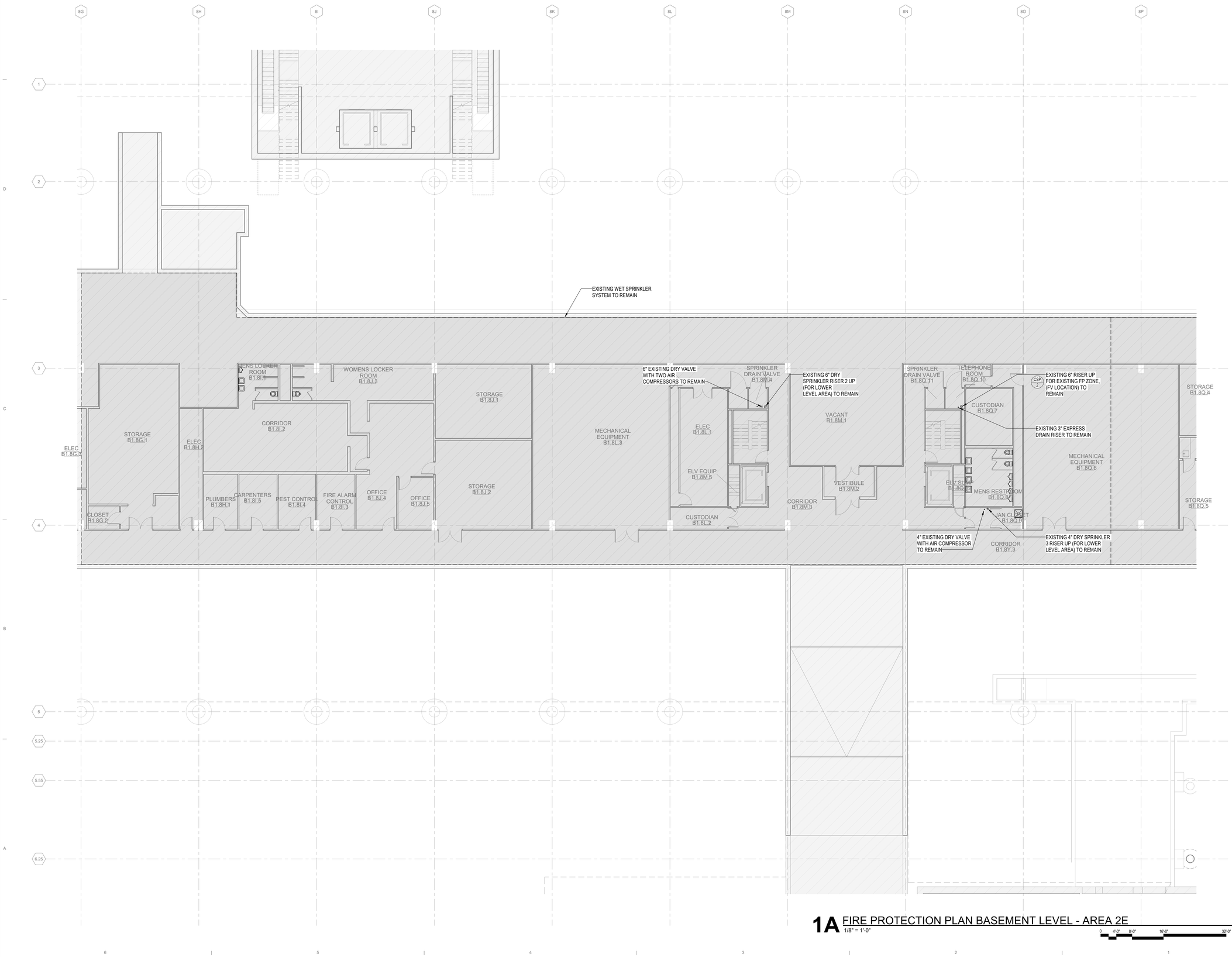
2. HATCHING DENOTES PROPOSED FIRE PROTECTION AREA. PROPOSED FP AREA TO BE REWORKED AND ZONED PER EXPANSION REQUIREMENTS.
3. FIRE PROTECTION ZONES SHALL NOT EXCEED 50,000 SQFT.
4. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED ZONES AND PROVIDING ALL CALCULATIONS REQUIRED TO THE FIRE PREVENTION BUREAU.



1A FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/24/2023 11:55:24 AM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
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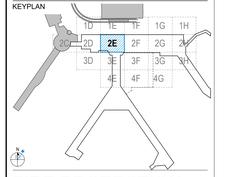
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2E

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER VOLUME: **2**

FP2.1.01.2E

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

1. SEE DESIGN CRITERIA AND GENERAL NOTES ON DWG FP0.01
2. COORDINATE LOCATIONS AND TYPES OF SPRINKLER HEADS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE PENDENT SPRINKLER HEADS BELOW SOFFITS.
4. VERIFY THE LOCATION, ELEVATION, AND SIZES OF EXISTING SPRINKLER FEED MAINS AND CROSS MAINS IN THE FIELD.
5. REPLACE EXISTING SPRINKLER HEADS WITH NEW ONES.
6. NEW PIPES MUST BE OF THE SAME TYPE AND SCHEDULE AS THE EXISTING ONES.
7. RE-ROUTE EXISTING FIRE PIPING AS NEEDED TO ENSURE COMPLETE FIRE PROTECTION SYSTEM FOR DESIGNATED AREA.
8. BAGGAGE CLAIM, INBOUND BAGGAGE, OUTBOUND BAGROOM, VEHICLE SERVICE RD, TUG STORAGE, TO BE PROVIDED WITH A DRY-PIPE SYSTEM.
9. THE FIRE SPRINKLER SYSTEM IN ROOMS NOT SUBJECT TO MODIFICATION TO REMAIN.
10. PROVIDE UPRIGHT SPRINKLER HEAD IN ROOMS WITHOUT CEILING. PROVIDE PENDENT SPRINKLER HEAD IN ROOMS WITH CEILING.
11. THE ROOM TO BE MODIFIED MUST BE PROTECTED BY A WET/OR DRY SPRINKLER SYSTEM CONNECTED TO THE EXISTING PROTECTION ZONE.

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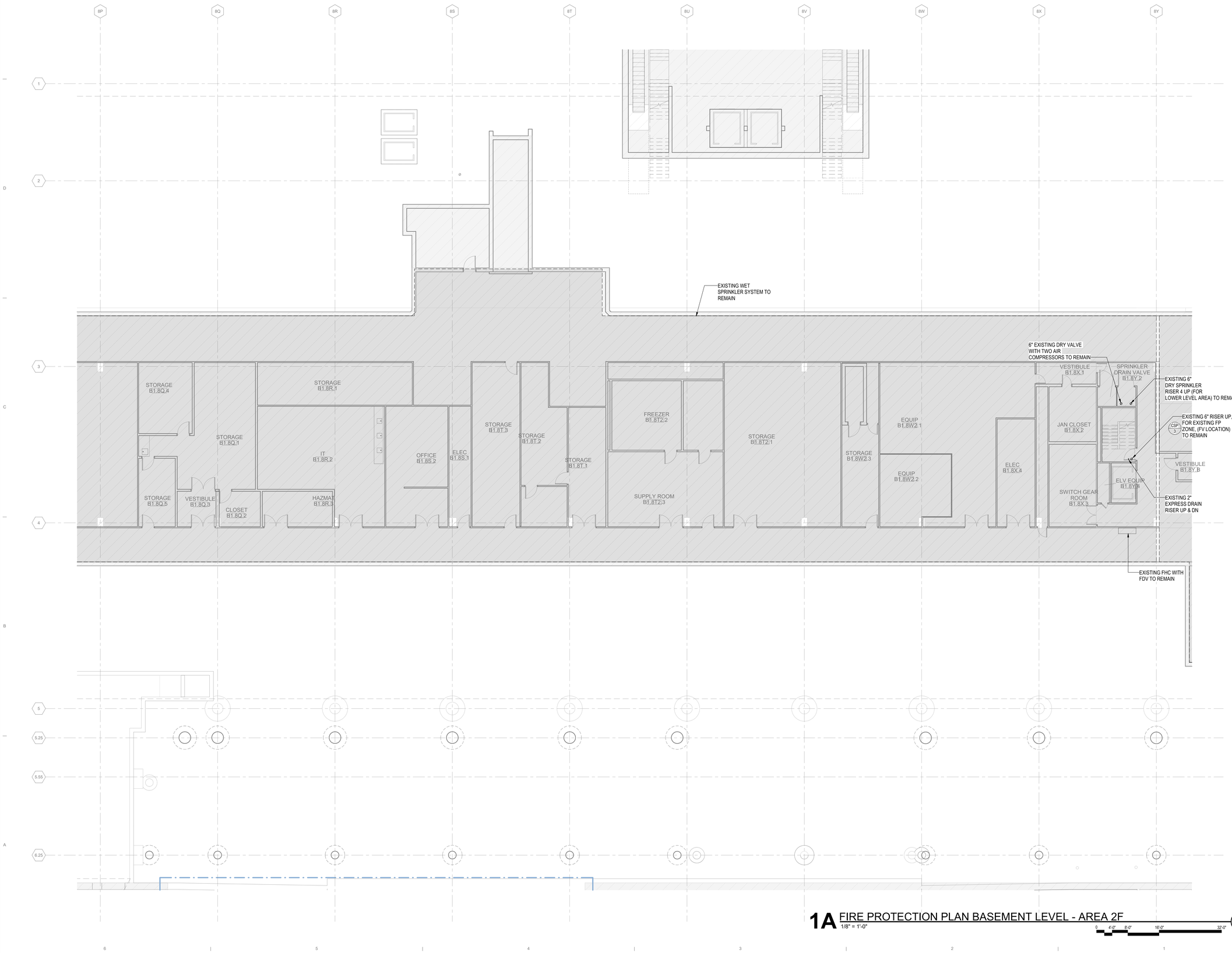
4. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED ZONES AND PROVIDING ALL CALCULATIONS REQUIRED TO THE FIRE PREVENTION BUREAU.



1A FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2F
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3/22/2023 12:31:50 PM

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REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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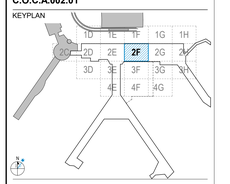
KEYPLAN



FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2F

DRAWN BY: **MC**
CHECKED BY: **RH**
SHEET NUMBER
VOLUME: **2**

FP2.1.01.2F

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

1. SEE DESIGN CRITERIA AND GENERAL NOTES ON DWG FP0.01
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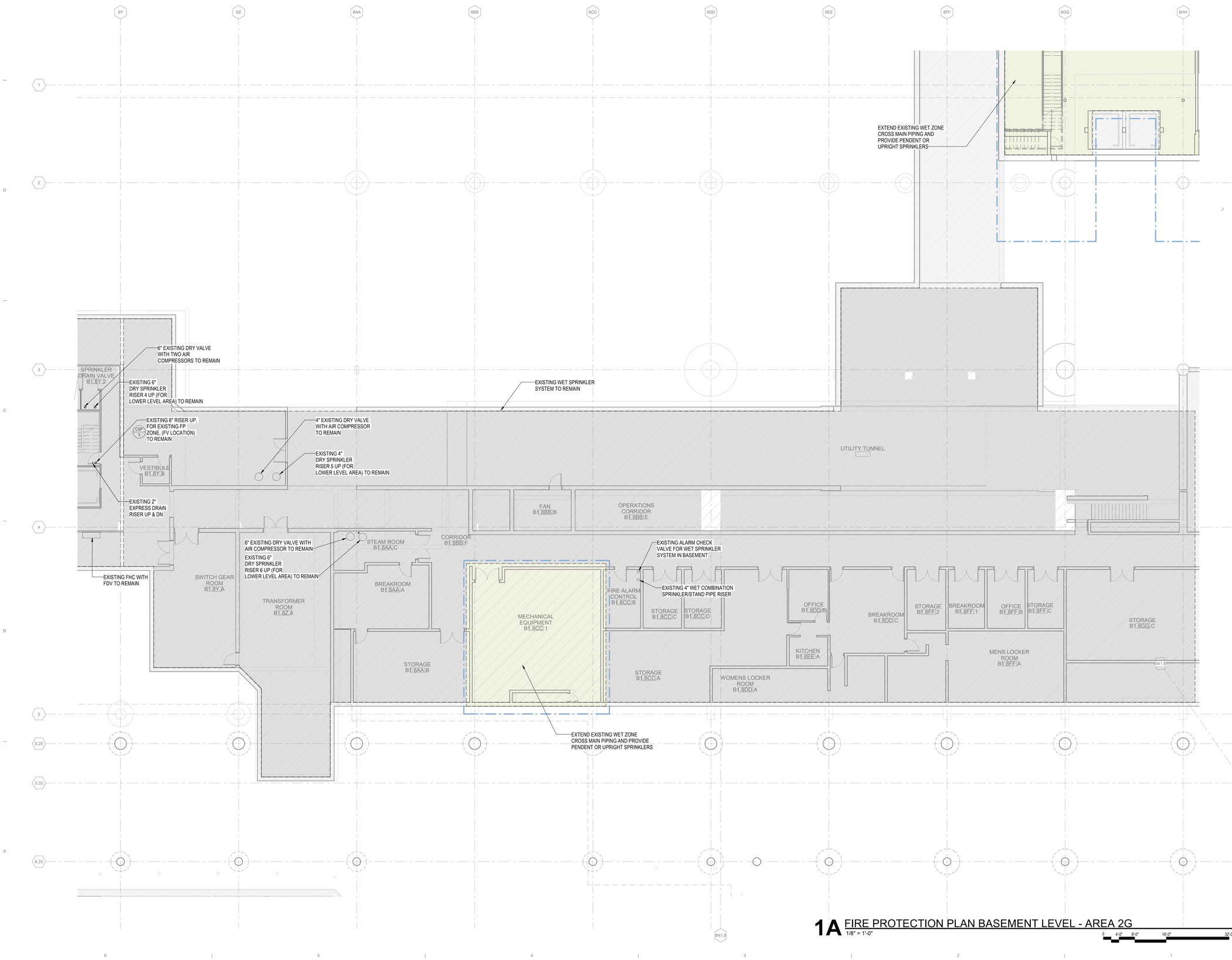

1A FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2G
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3/24/2023 11:55:37 AM

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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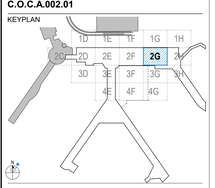
KEYPLAN



FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2G

DRAWN BY: **MC** CHECKED BY: **RH**

SHEET NUMBER VOLUME: **2**

FP2.1.01.2G

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

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8. PROVIDE NEW FIRE CROSS MAIN WITH BRANCHES AND SPRINKLERS FOR MODIFIED AREA. CONNECT TO THE APPROPRIATE VALVE FOR THAT ZONE.

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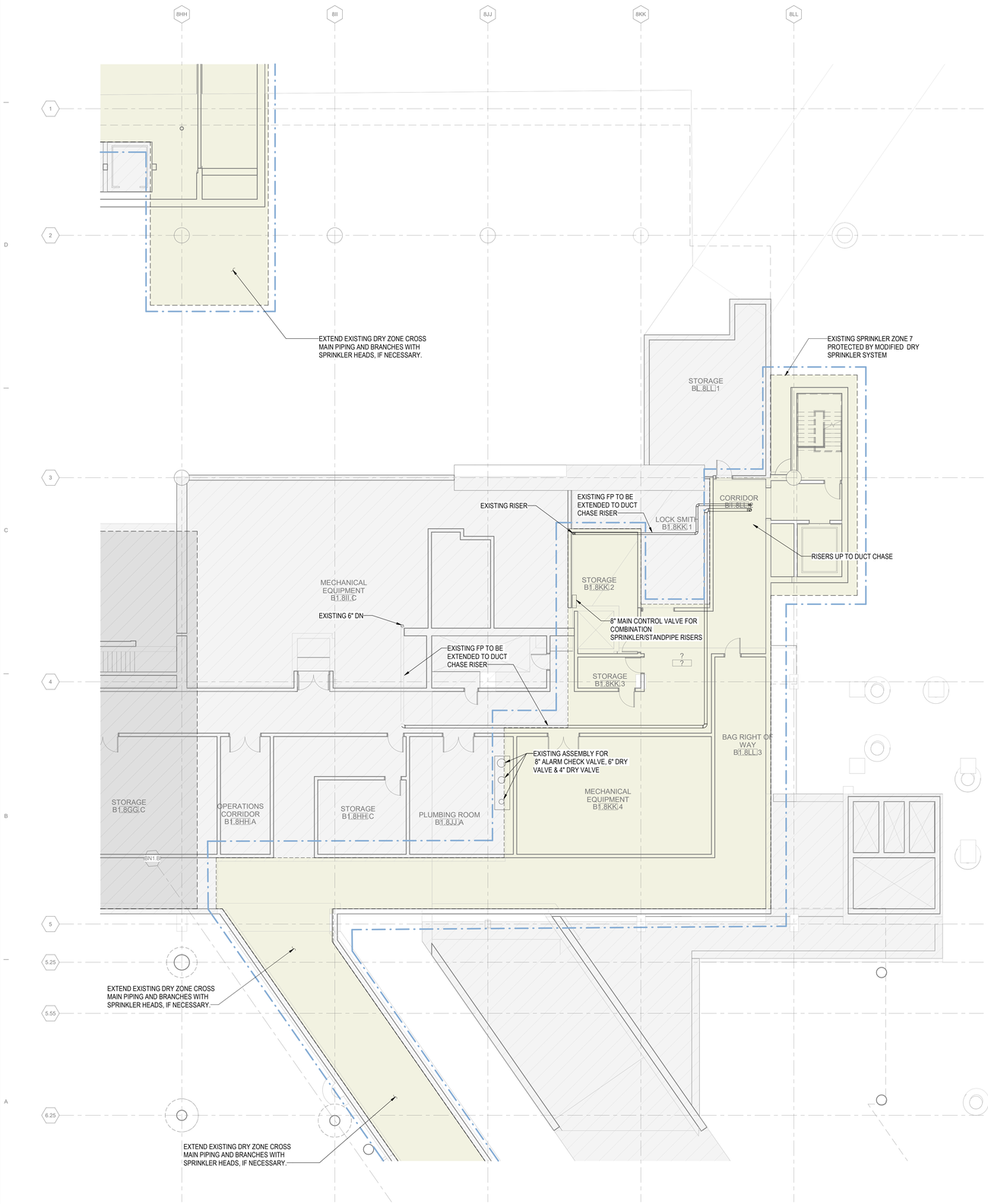

1A FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2H
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3/22/2023 12:32:20 PM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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MILHOUSE

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PHASE: **DD**
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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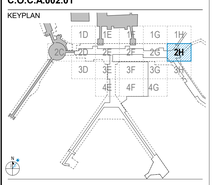
KEYPLAN



FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 2H

DRAWN BY: **MC** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FP2.1.01.2H

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
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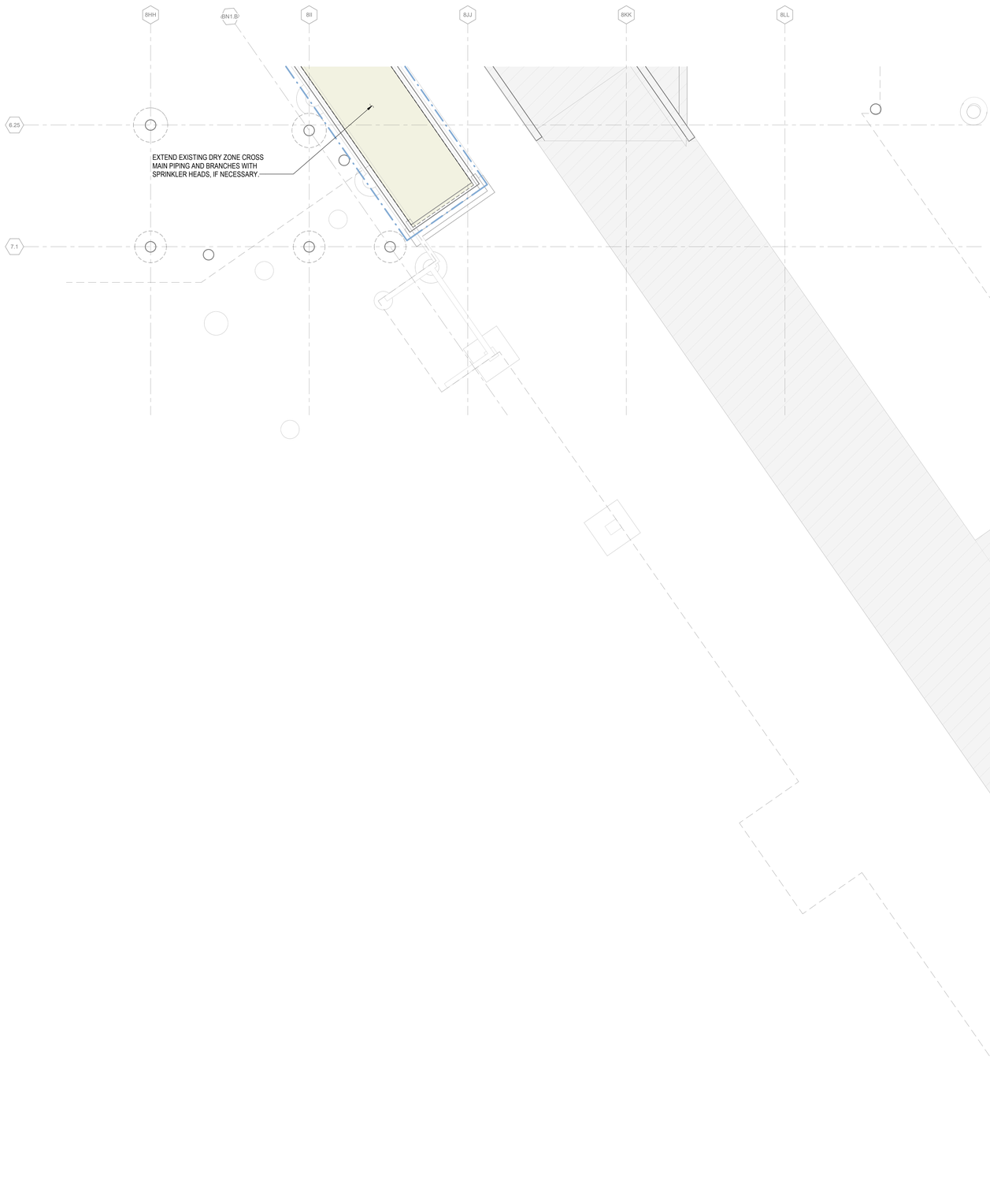

1A FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 3H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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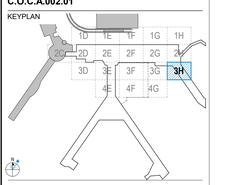
KEYPLAN



FIRE PROTECTION PLAN BASEMENT LEVEL - AREA 3H

DRAWN BY: **MC** CHECKED BY: **RH**

SHEET NUMBER VOLUME: **2**

FP2.1.01.3H

3/22/2023 12:32:34 PM

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SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

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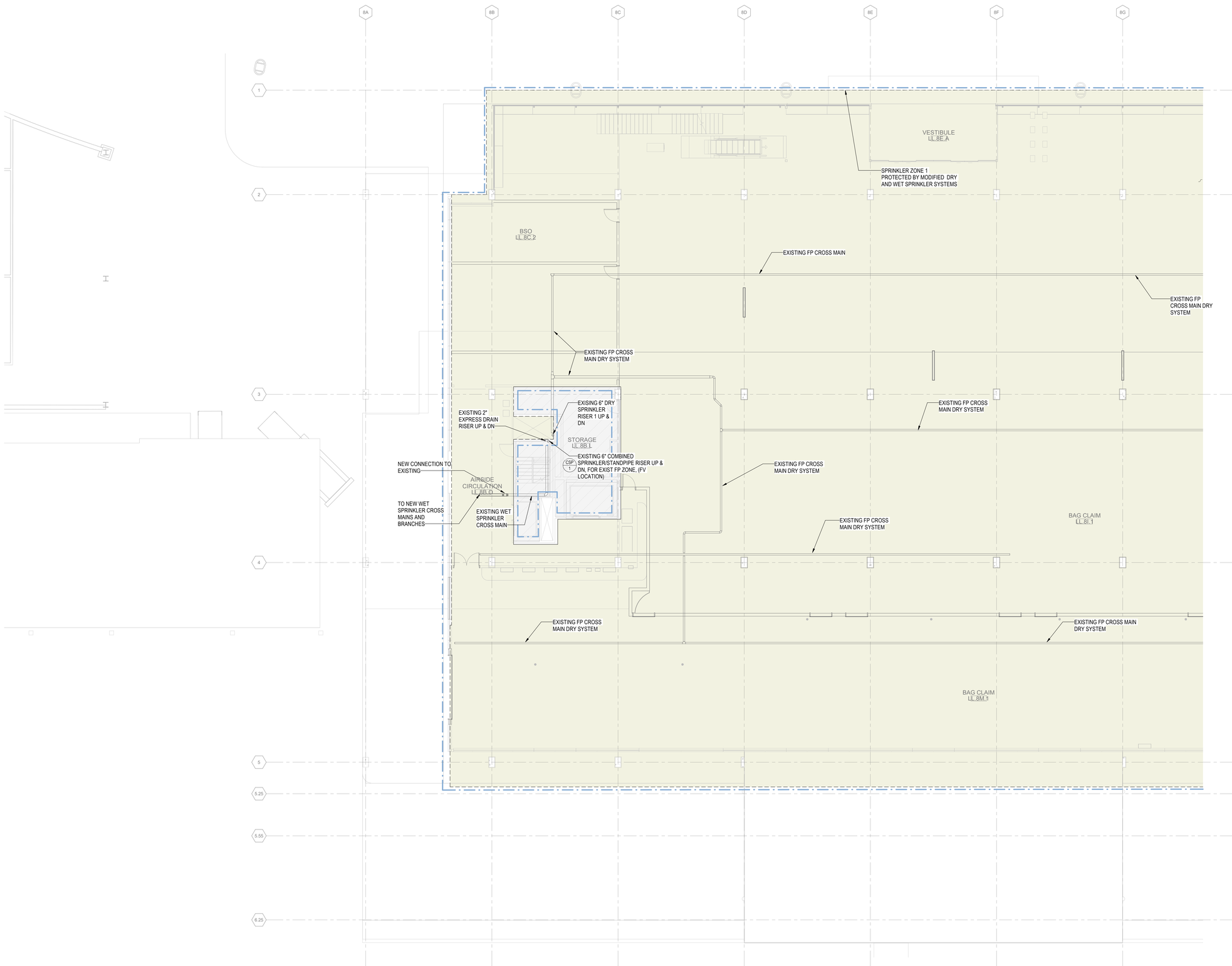

1A FIRE PROTECTION PLAN LOWER LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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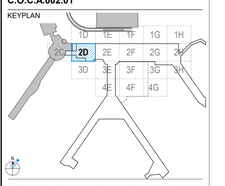

FIRE PROTECTION PLAN LOWER LEVEL - AREA 2D

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER VOLUME: **2**
FP2.1.02.2D

SHEET LEGEND

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GENRAL NOTES

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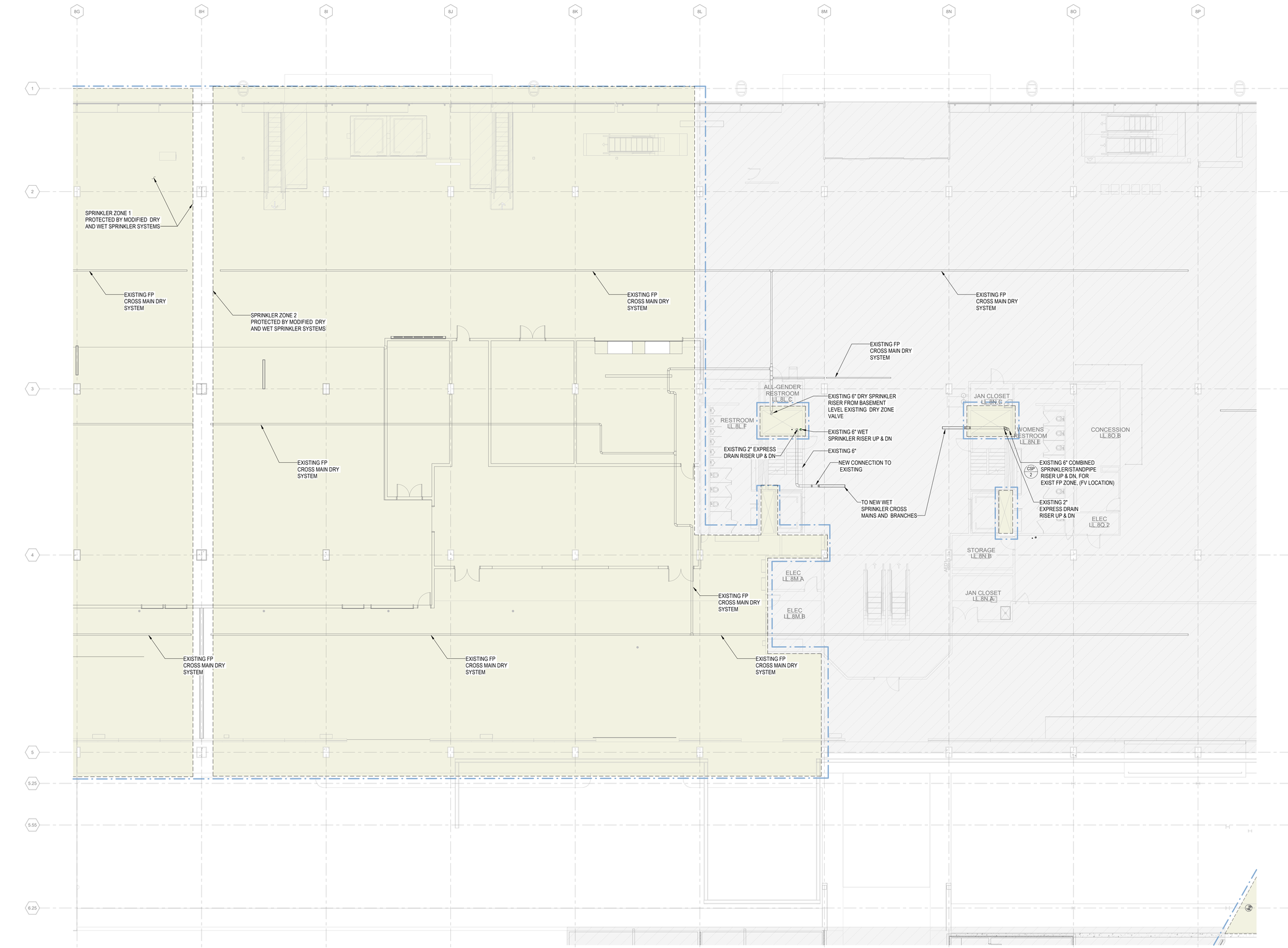
3. FIRE PROTECTION ZONES SHALL NOT EXCEED 50,000 SQFT.
4. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED ZONES AND PROVIDING ALL CALCULATIONS REQUIRED TO THE FIRE PREVENTION BUREAU.



1A FIRE PROTECTION PLAN LOWER LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 12:33:15 PM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

NOTES

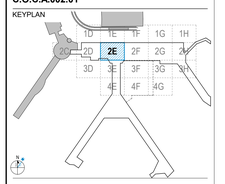
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



FIRE PROTECTION PLAN LOWER LEVEL - AREA 2E

DRAWN BY: **MC**
CHECKED BY: **RH**
SHEET NUMBER
VOLUME: **2**

FP2.1.02.2E

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

1. SEE DESIGN CRITERIA AND GENERAL NOTES ON DWG FP0.01
2. COORDINATE LOCATIONS AND TYPES OF SPRINKLER HEADS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE PENDENT SPRINKLER HEADS BELOW SOFFITS.
4. VERIFY THE LOCATION, ELEVATION, AND SIZES OF EXISTING SPRINKLER FEED MAINS AND CROSS MAINS IN THE FIELD.
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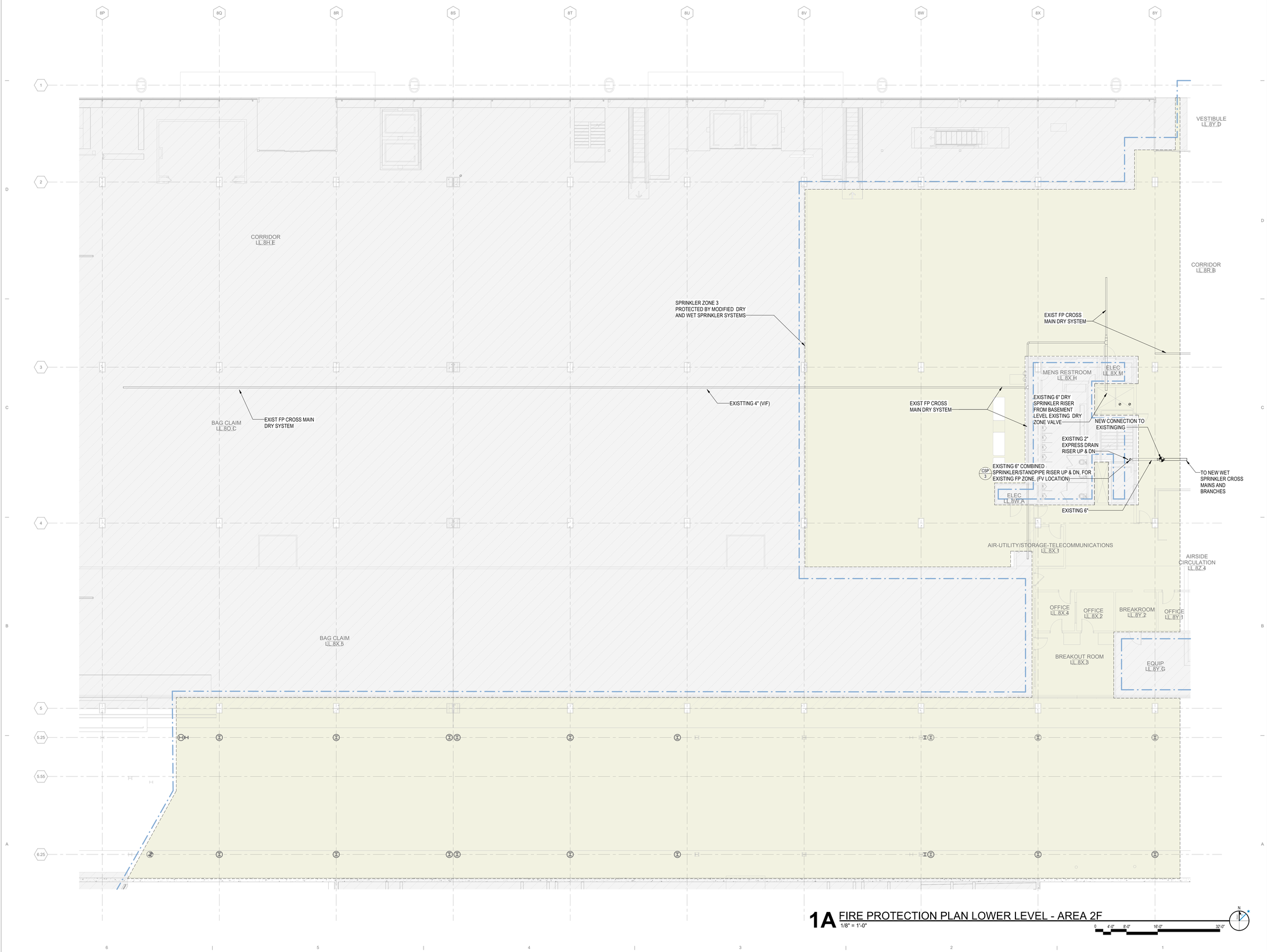

1A FIRE PROTECTION PLAN LOWER LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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MAYOR

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STAMPING CONSULTANT
AE01
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MILHOUSE

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ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
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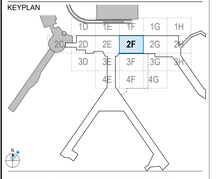
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



FIRE PROTECTION PLAN LOWER LEVEL - AREA 2F

DRAWN BY: **MC**
CHECKED BY: **RH**
SHEET NUMBER
VOLUME: **2**

FP2.1.02.2F

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

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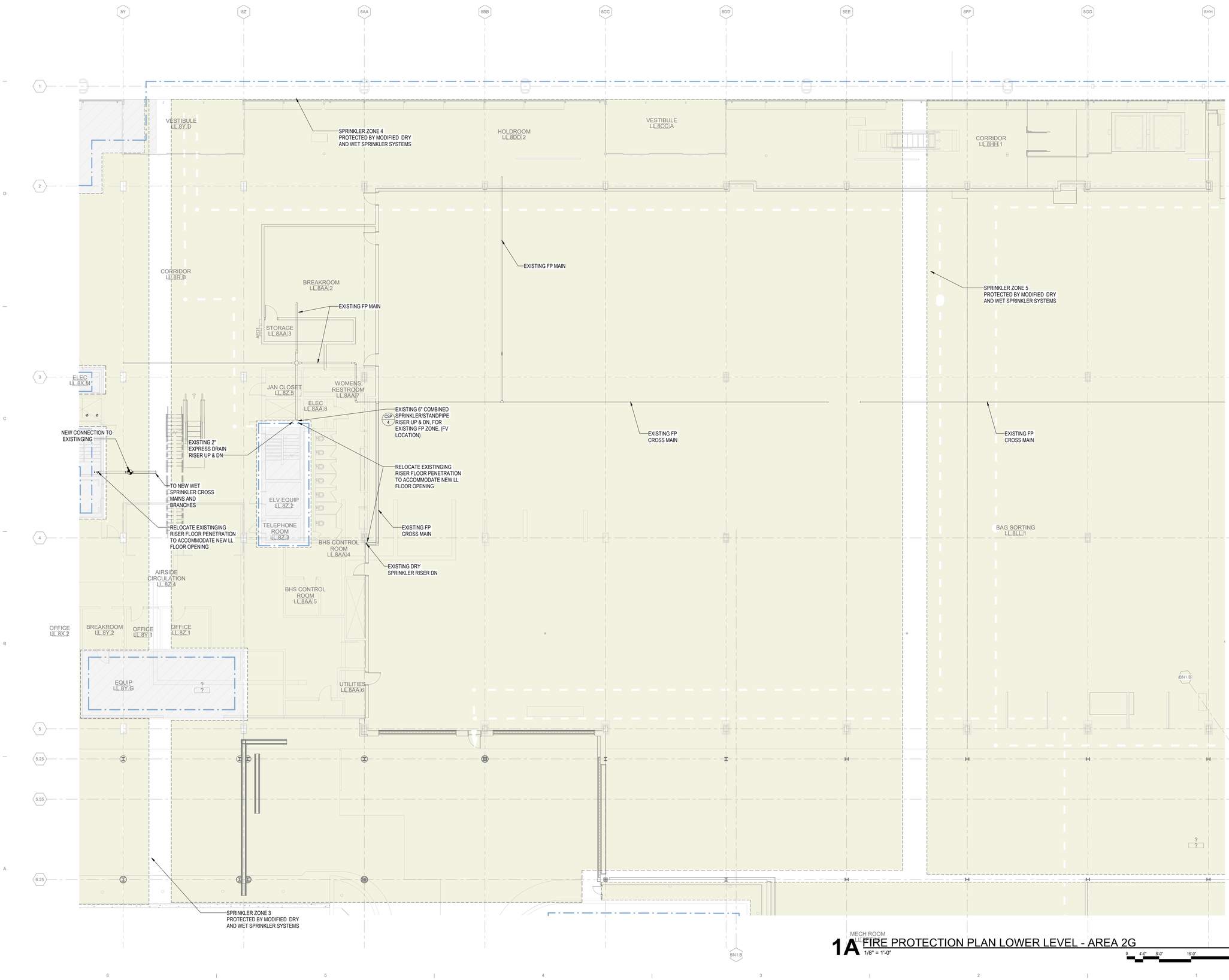

1A FIRE PROTECTION PLAN LOWER LEVEL - AREA 2G

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 12:33:58 PM

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CITY OF CHICAGO
LORI LIGHTFOOT
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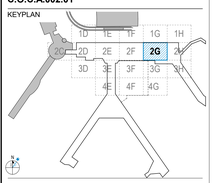
NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN** — PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD** — REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



FIRE PROTECTION PLAN LOWER LEVEL - AREA 2G

DRAWN BY: **MC** — CHECKED BY: **RH**
SHEET NUMBER — VOLUME: **2**

FP2.1.02.2G

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

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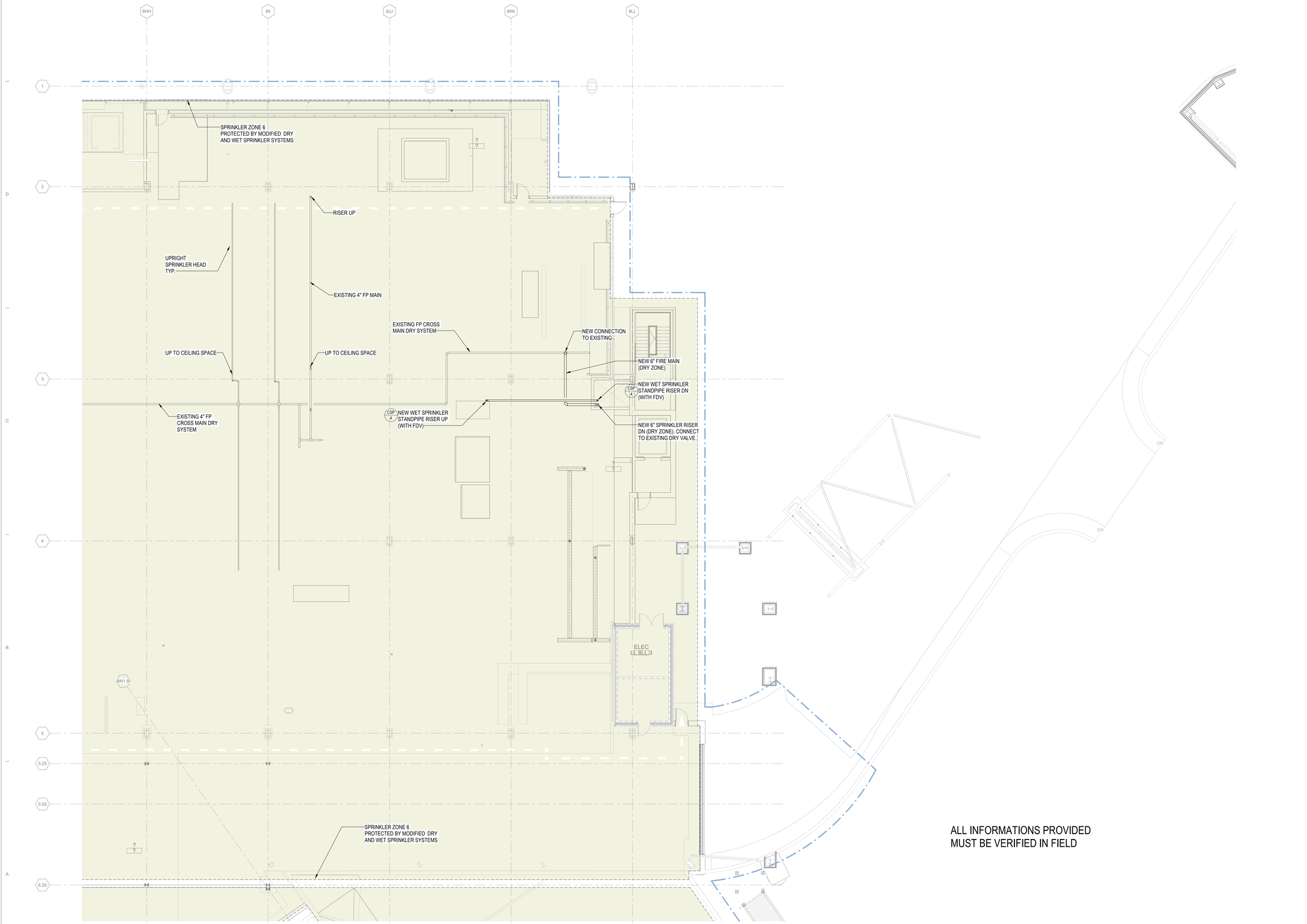

ALL INFORMATIONS PROVIDED
MUST BE VERIFIED IN FIELD

1A FIRE PROTECTION PLAN LOWER LEVEL - AREA 2H
1/8" = 1'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

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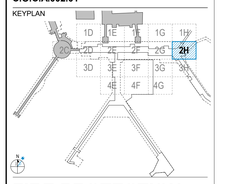
PHASE: **DD** — REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



FIRE PROTECTION PLAN LOWER LEVEL - AREA 2H

DRAWN BY: **MC** — CHECKED BY: **RH**
SHEET NUMBER — VOLUME: **2**

FP2.1.02.2H

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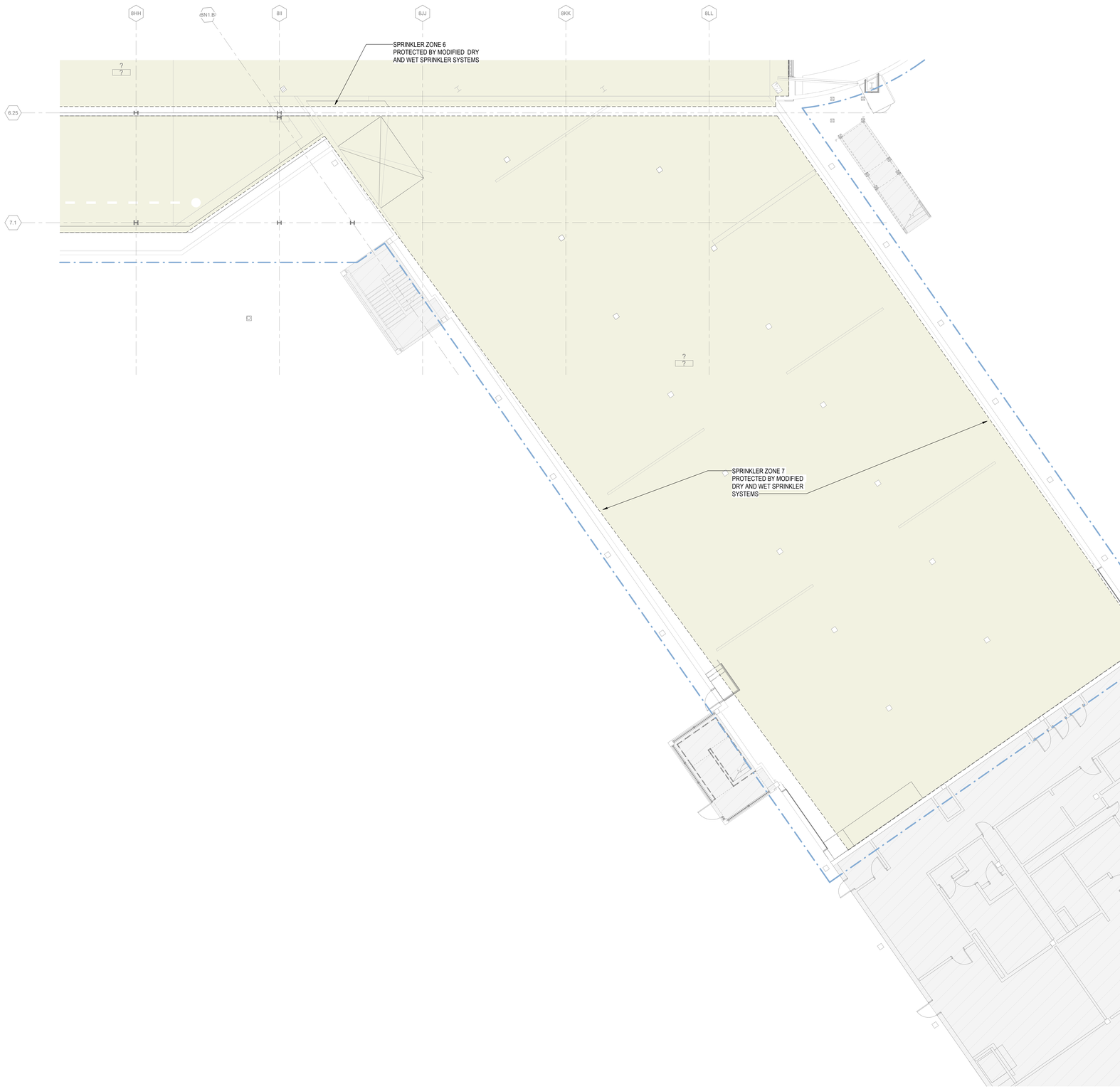

1A FIRE PROTECTION PLAN LOWER LEVEL - AREA 3H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
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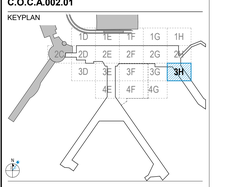
KEYPLAN



FIRE PROTECTION PLAN LOWER LEVEL - AREA 3H

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER VOLUME: **2**

FP2.1.02.3H

3/19/2023 7:29:47 PM

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SHEET LEGEND

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- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

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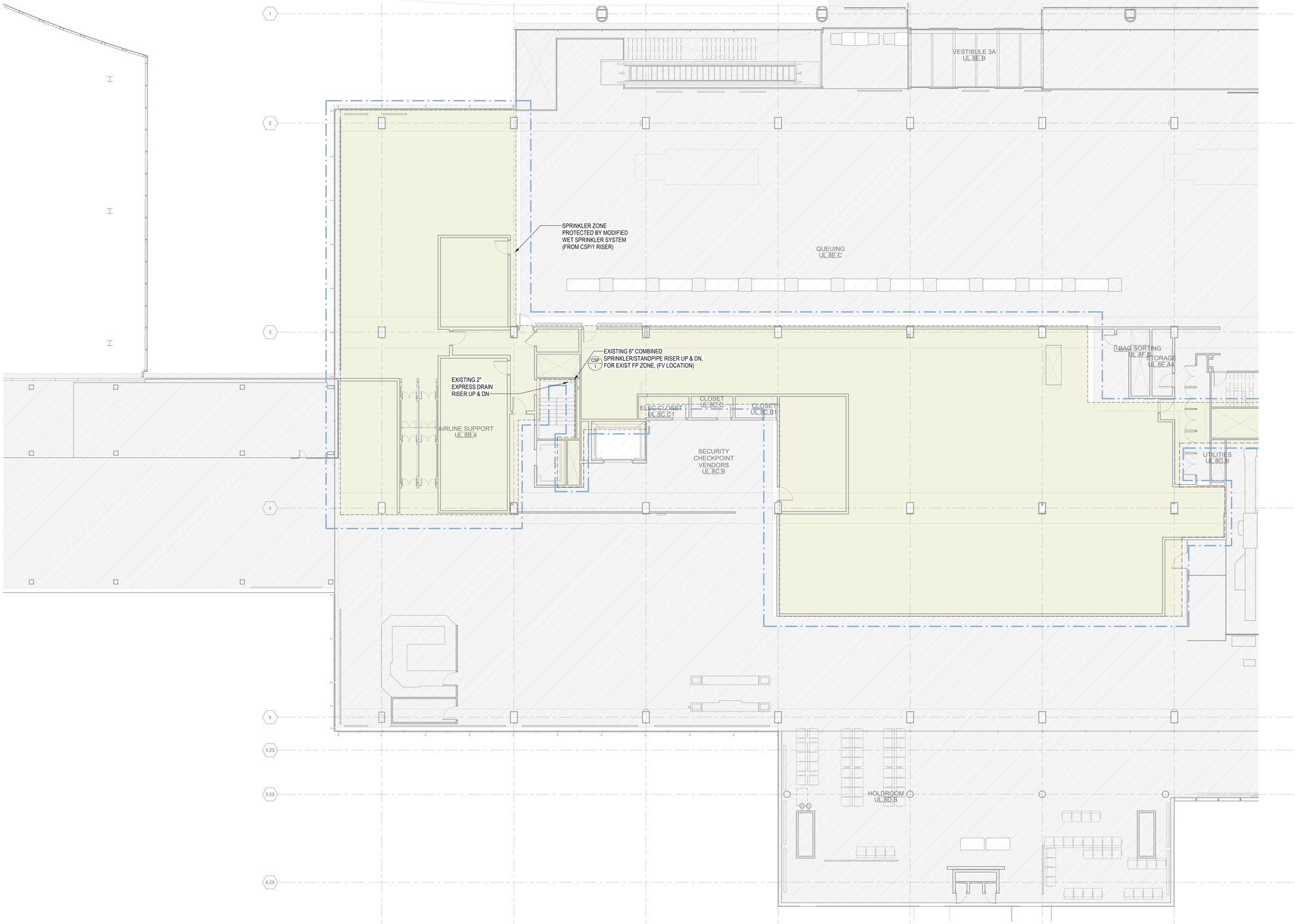

1A FIRE PROTECTION PLAN UPPER LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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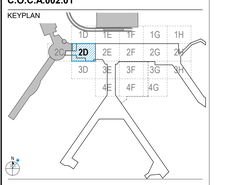

FIRE PROTECTION PLAN UPPER LEVEL - AREA 2D

DRAWN BY: **MC**
CHECKED BY: **RH**
SHEET NUMBER
VOLUME: **2**

FP2.1.03.2D

3/24/2023 11:55:45 AM

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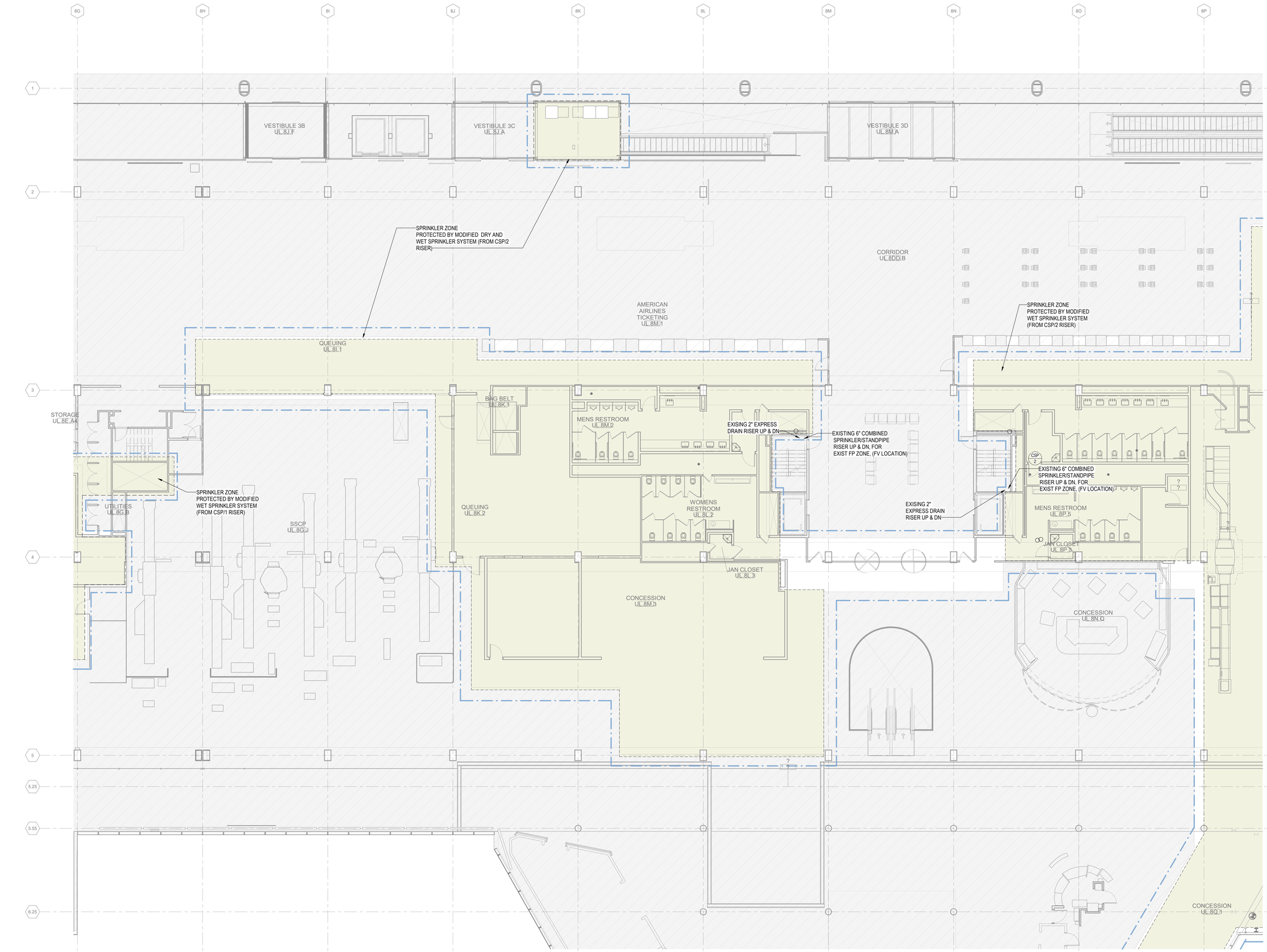
3. FIRE PROTECTION ZONES SHALL NOT EXCEED 50,000 SQFT.
4. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED ZONES AND PROVIDING ALL CALCULATIONS REQUIRED TO THE FIRE PREVENTION BUREAU.



1A FIRE PROTECTION PLAN UPPER LEVEL - AREA 2E
1/8" = 1'-0"

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3/22/2023 1:40:29 PM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

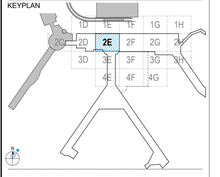
NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN** — PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD** — REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



FIRE PROTECTION PLAN UPPER LEVEL - AREA 2E

DRAWN BY: **MC** — CHECKED BY: **RH**
SHEET NUMBER — VOLUME: **2**

FP2.1.03.2E

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

1. SEE DESIGN CRITERIA AND GENERAL NOTES ON DWG FP0.01
2. COORDINATE LOCATIONS AND TYPES OF SPRINKLER HEADS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE PENDENT SPRINKLER HEADS BELOW SOFFITS.
4. VERIFY THE LOCATION, ELEVATION, AND SIZES OF EXISTING SPRINKLER FEED MAINS AND CROSS MAINS IN THE FIELD.
5. REPLACE EXISTING SPRINKLERS HEADS WITH NEW ONES.
6. NEW PIPES MUST BE OF THE SAME TYPE AND SCHEDULE AS THE EXISTING ONES.
7. RE-ROUTE EXISTING FIRE PIPING AS NEEDED TO ENSURE COMPLETE FIRE PROTECTION SYSTEM FOR DESIGNATED AREA.
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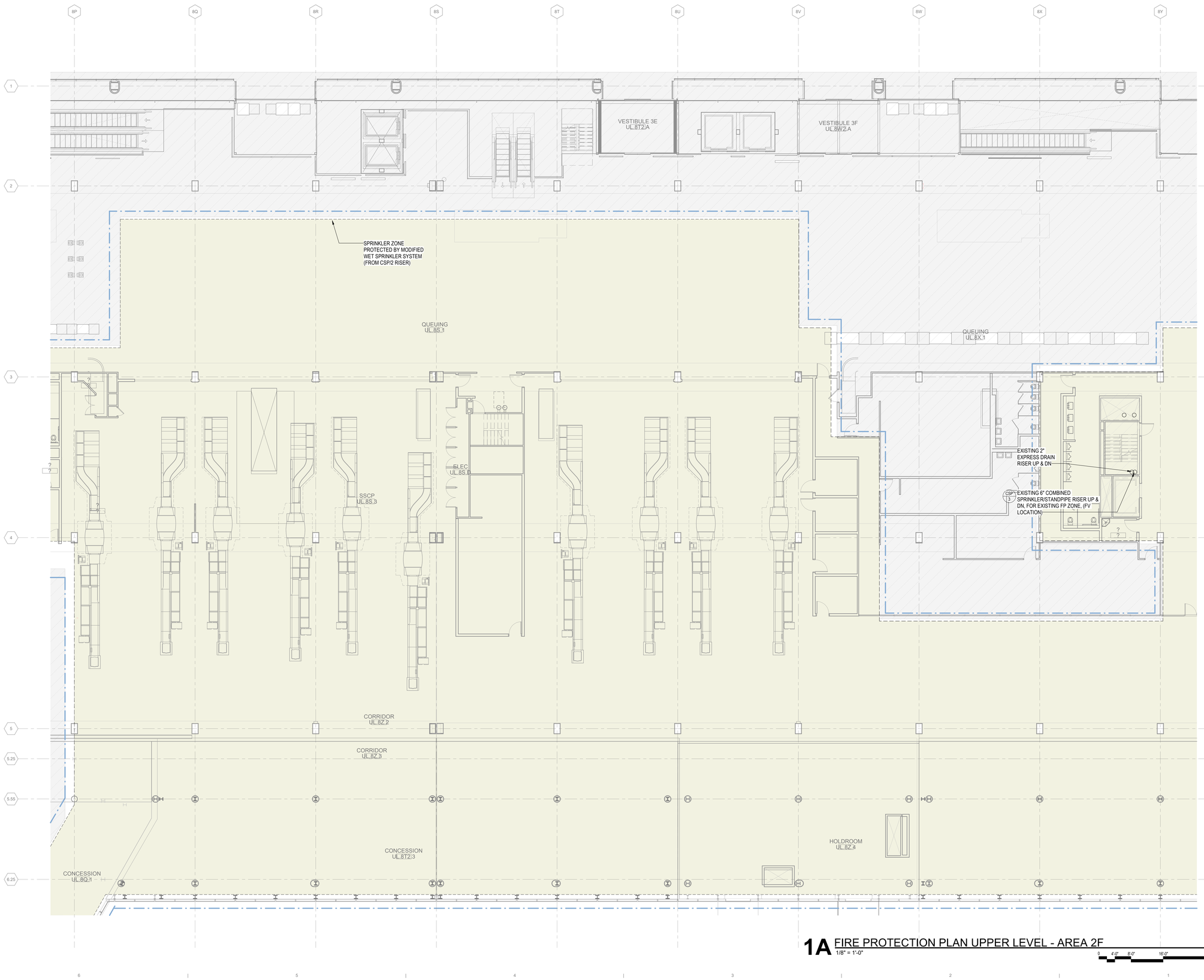

1A FIRE PROTECTION PLAN UPPER LEVEL - AREA 2F
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CITY OF CHICAGO
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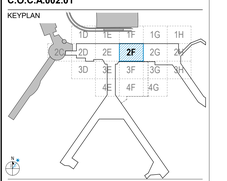

FIRE PROTECTION PLAN UPPER LEVEL - AREA 2F

DRAWN BY: **MC**
CHECKED BY: **RH**
SHEET NUMBER: **FP2.1.03.2F**
VOLUME: **2**

SHEET LEGEND

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- CONTRACT LIMIT

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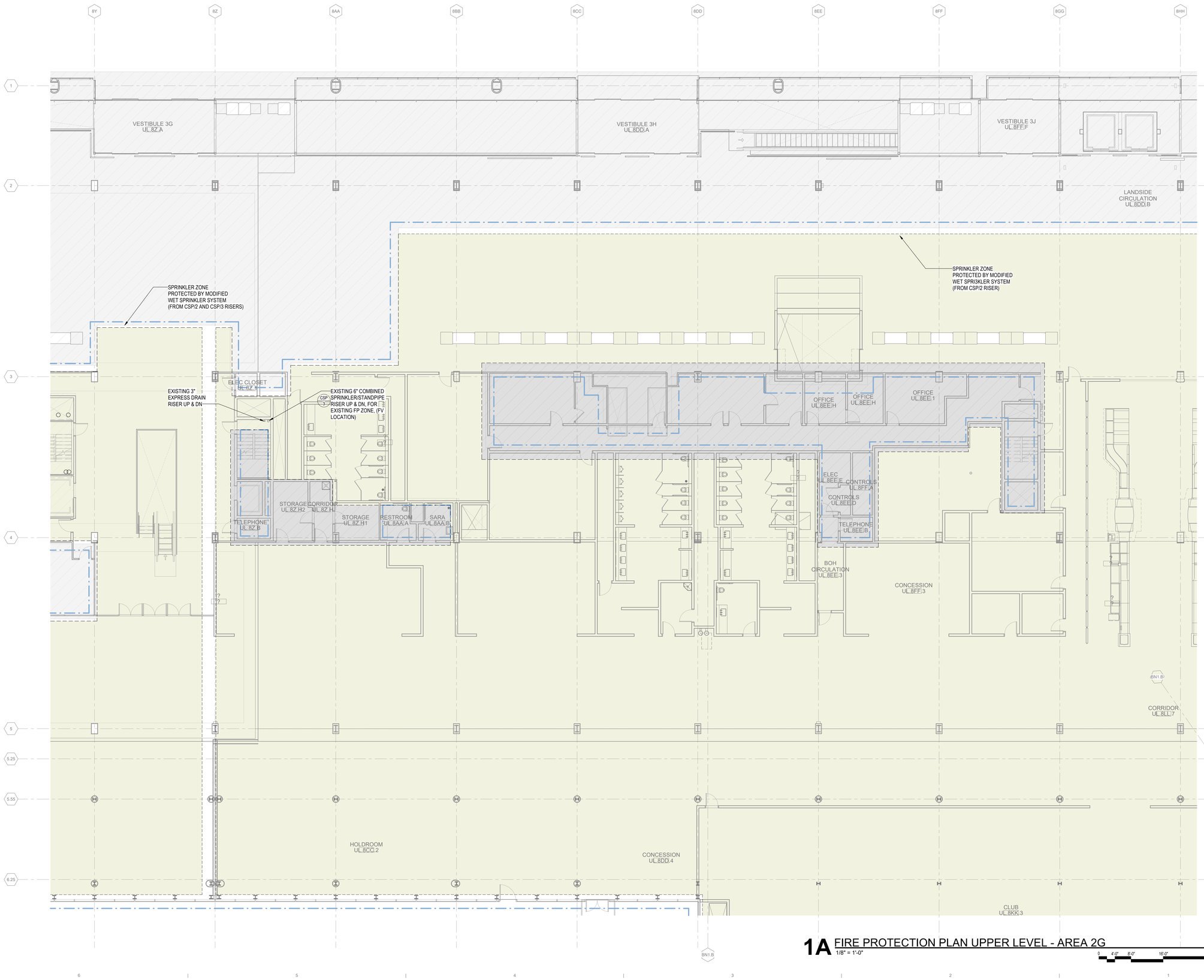

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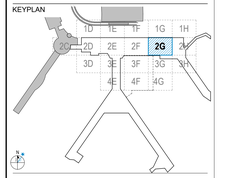

FIRE PROTECTION PLAN UPPER LEVEL - AREA 2G

DRAWN BY: **MC**
CHECKED BY: **RH**
SHEET NUMBER: **FP2.1.03.2G**
VOLUME: **2**

SHEET LEGEND

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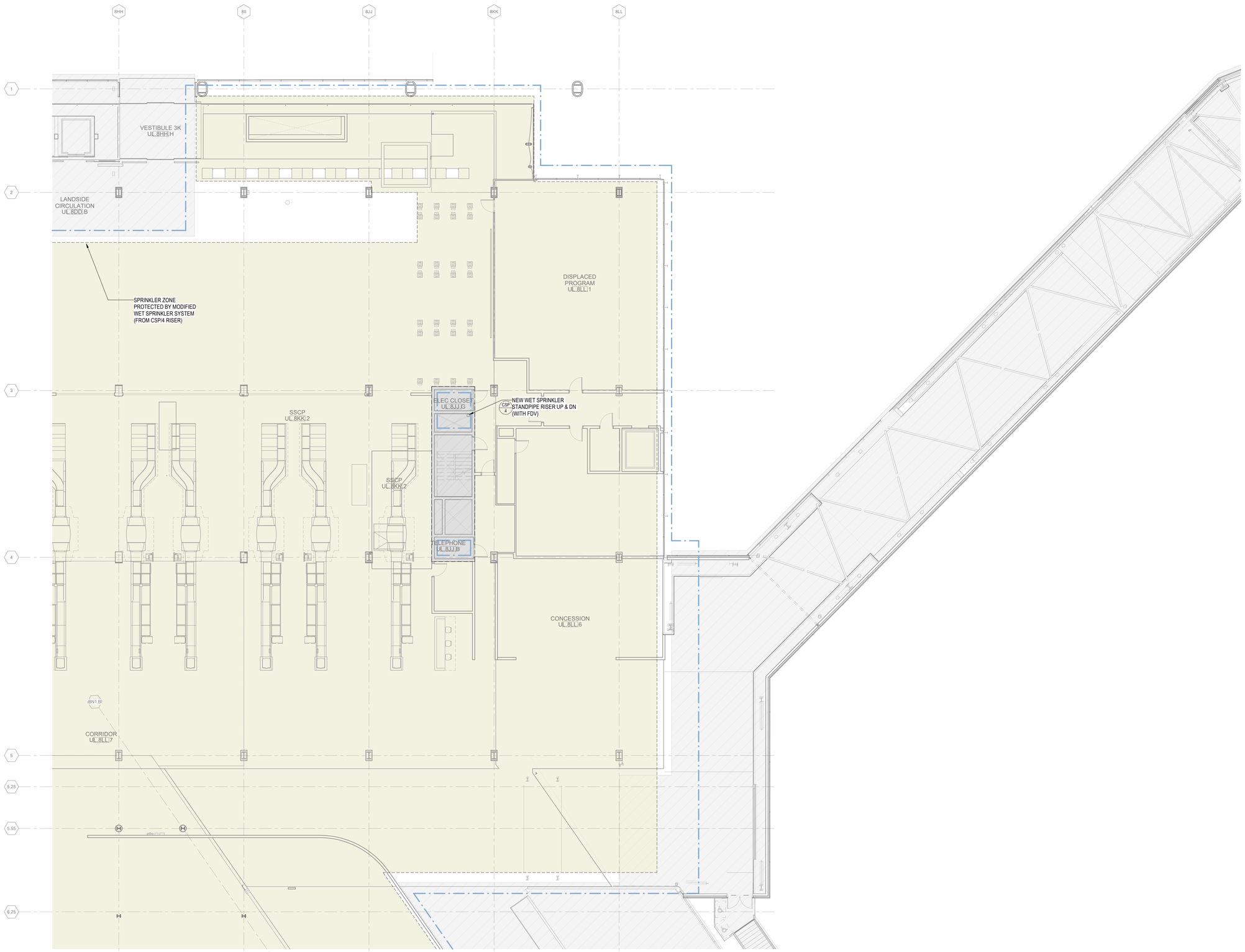

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CITY OF CHICAGO
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ISSUANCE: **50% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



FIRE PROTECTION PLAN UPPER LEVEL - AREA 2H

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER VOLUME: **2**
FP2.1.03.2H

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SHEET LEGEND

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- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

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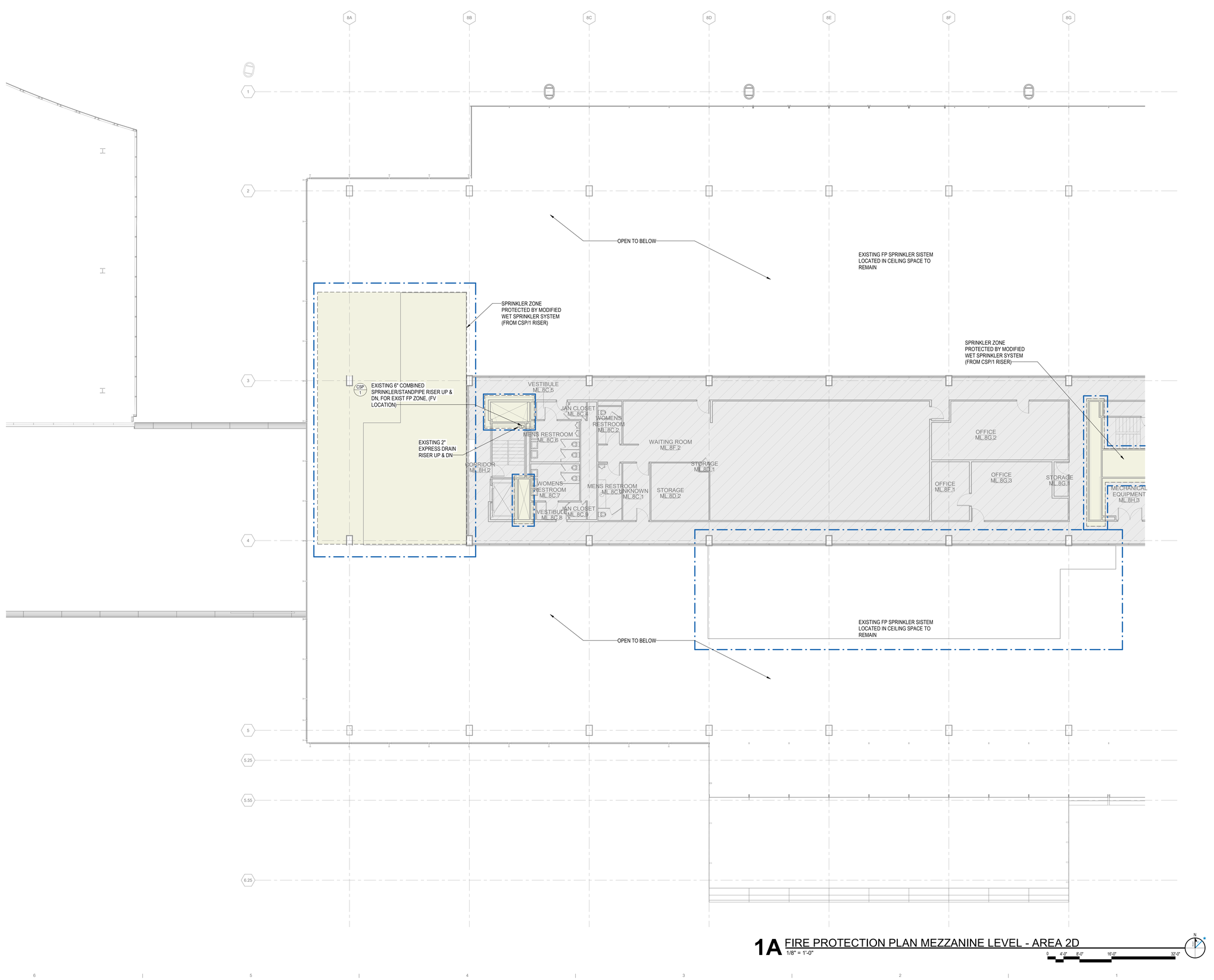

1A FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2D

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:41:57 PM

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
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PROJECT NUMBER
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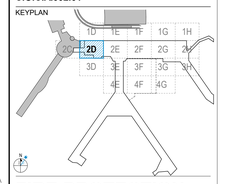

FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2D

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER: **FP2.1.04.2D** VOLUME: **2**

SHEET LEGEND

- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
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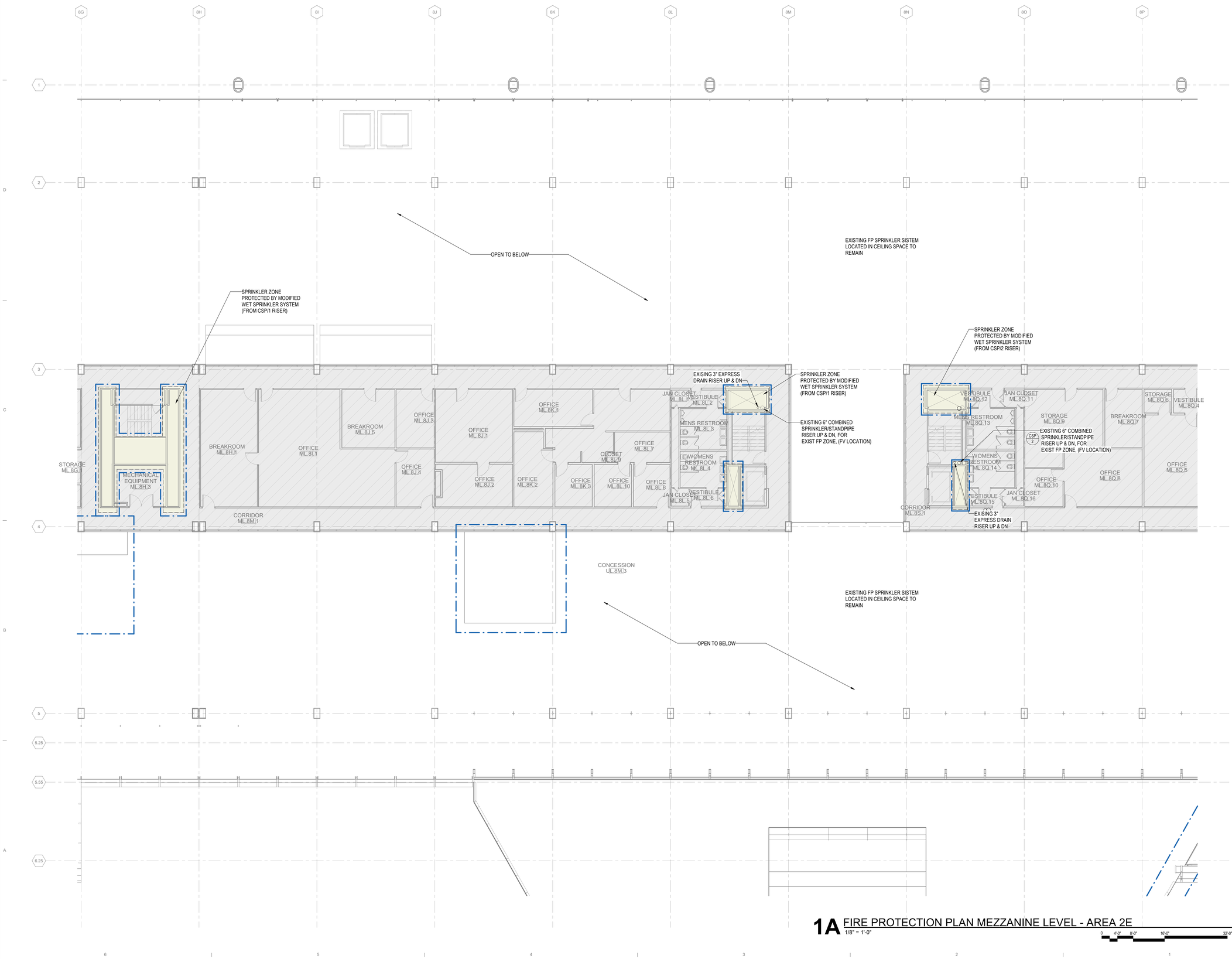

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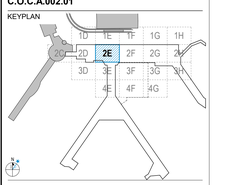

FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2E

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER VOLUME: **2**

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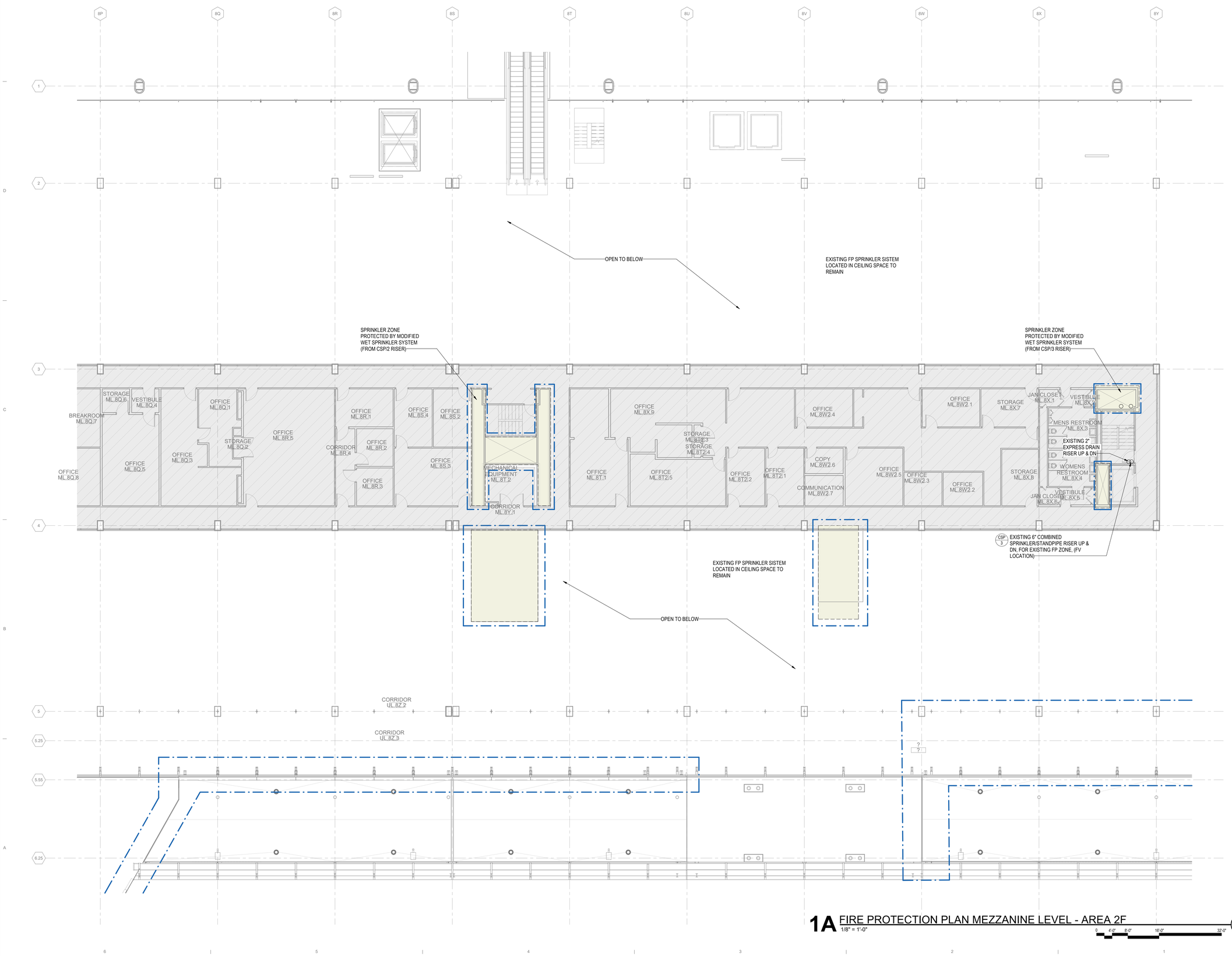

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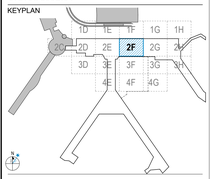
C.O.C.A.002.01

KEYPLAN



FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2F

DRAWN BY: **Author**
CHECKED BY: **Checker**
SHEET NUMBER: **FP2.1.04.2F**
VOLUME: **2**

3/24/2023 11:56:18 AM

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SHEET LEGEND

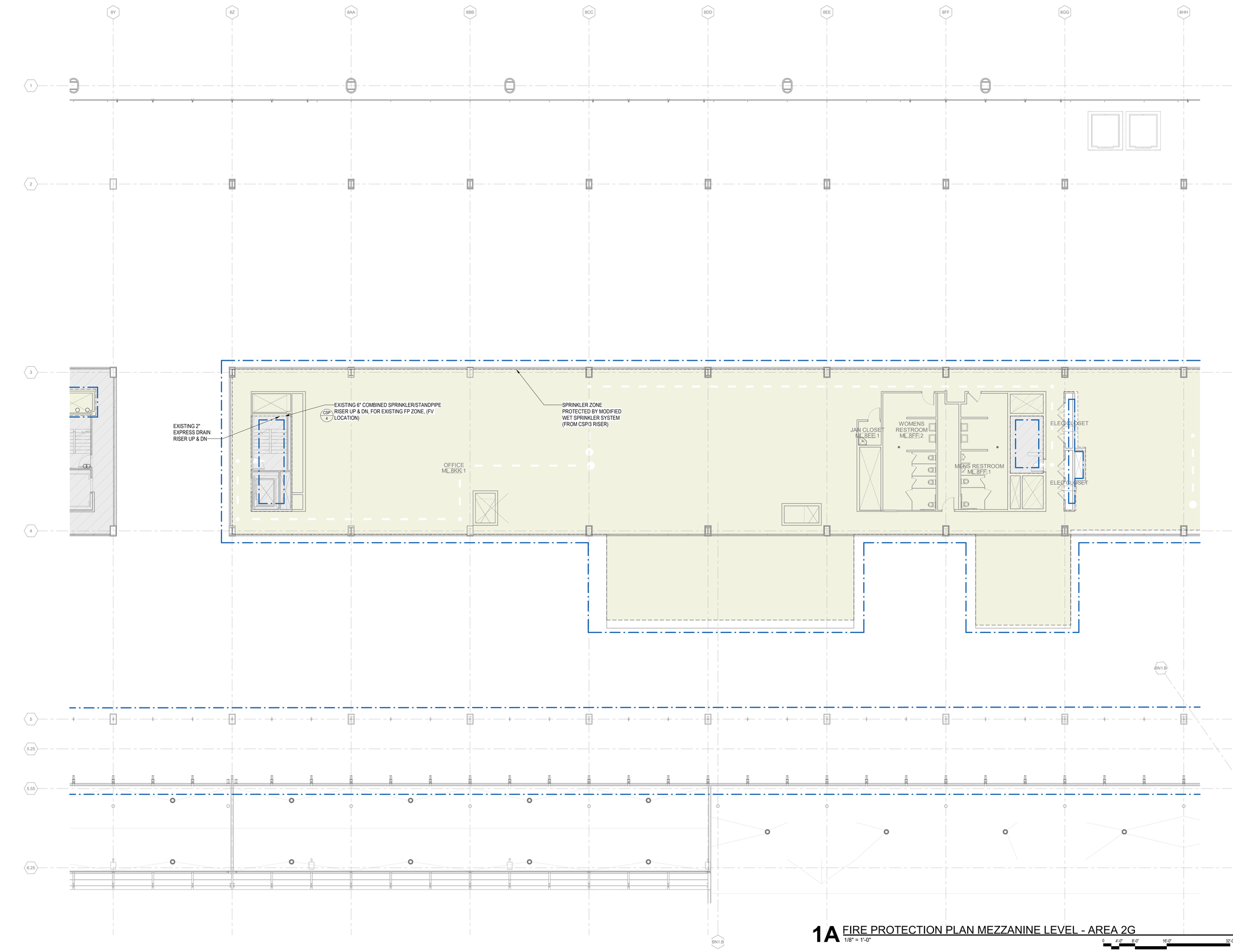
- EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)
- FIRE PROTECTION ZONE
- CONTRACT LIMIT

SHEET NOTES:

1. SEE DESIGN CRITERIA AND GENERAL NOTES ON DWG FP0.01
2. COORDINATE LOCATIONS AND TYPES OF SPRINKLER HEADS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE PENDENT SPRINKLER HEADS BELOW SOFFITS.
4. VERIFY THE LOCATION, ELEVATION, AND SIZES OF EXISTING SPRINKLER FEED MAINS AND CROSS MAINS IN THE FIELD.
5. REPLACE EXISTING SPRINKLERS HEADS WITH NEW ONES.
6. NEW PIPES MUST BE OF THE SAME TYPE AND SCHEDULE AS THE EXISTING ONES.
7. RE-ROUTE EXISTING FIRE PIPING AS NEEDED TO ENSURE COMPLETE FIRE PROTECTION SYSTEM FOR DESIGNATED AREA.
8. THE FIRE SPRINKLER SYSTEM IN ROOMS NOT SUBJECT TO MODIFICATION TO REMAINS.
9. PROVIDE UPRIGHT SPRINKLER HEAD IN ROOMS WITHOUT CEILING.PROVIDE PENDENT SPRINKLER HEAD IN ROOMS WITH CEILING.
10. THE ROOM TO BE MODIFIED MUST BE PROTECTED BY A WET/OR DRY SPRINKLER SYSTEM CONNECTED TO THE EXISTING PROTECTION ZONE.

GENRAL NOTES

1. EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.
2. HATCHING DENOTES PROPOSED FIRE PROTECTION AREA. PROPOSED FP AREA TO BE REWORKED AND ZONED PER EXPANSION REQUIREMENTS.
3. FIRE PROTECTION ZONES SHALL NOT EXCEED 50,000 SQFT.
4. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED ZONES AND PROVIDING ALL CALCULATIONS REQUIRED TO THE FIRE PREVENTION BUREAU.



1A FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

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REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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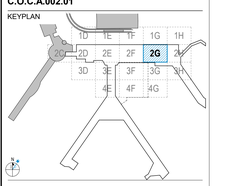
KEYPLAN



FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2G

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SHEET NUMBER VOLUME: **2**

FP2.1.04.2G

3/22/2023 1:42:46 PM

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SHEET LEGEND

EXISTING BUILDING TO REMAIN (NOT IN CONTRACT)

FIRE PROTECTION ZONE

CONTRACT LIMIT

SHEET NOTES:

1. SEE DESIGN CRITERIA AND GENERAL NOTES ON DWG FP0.01
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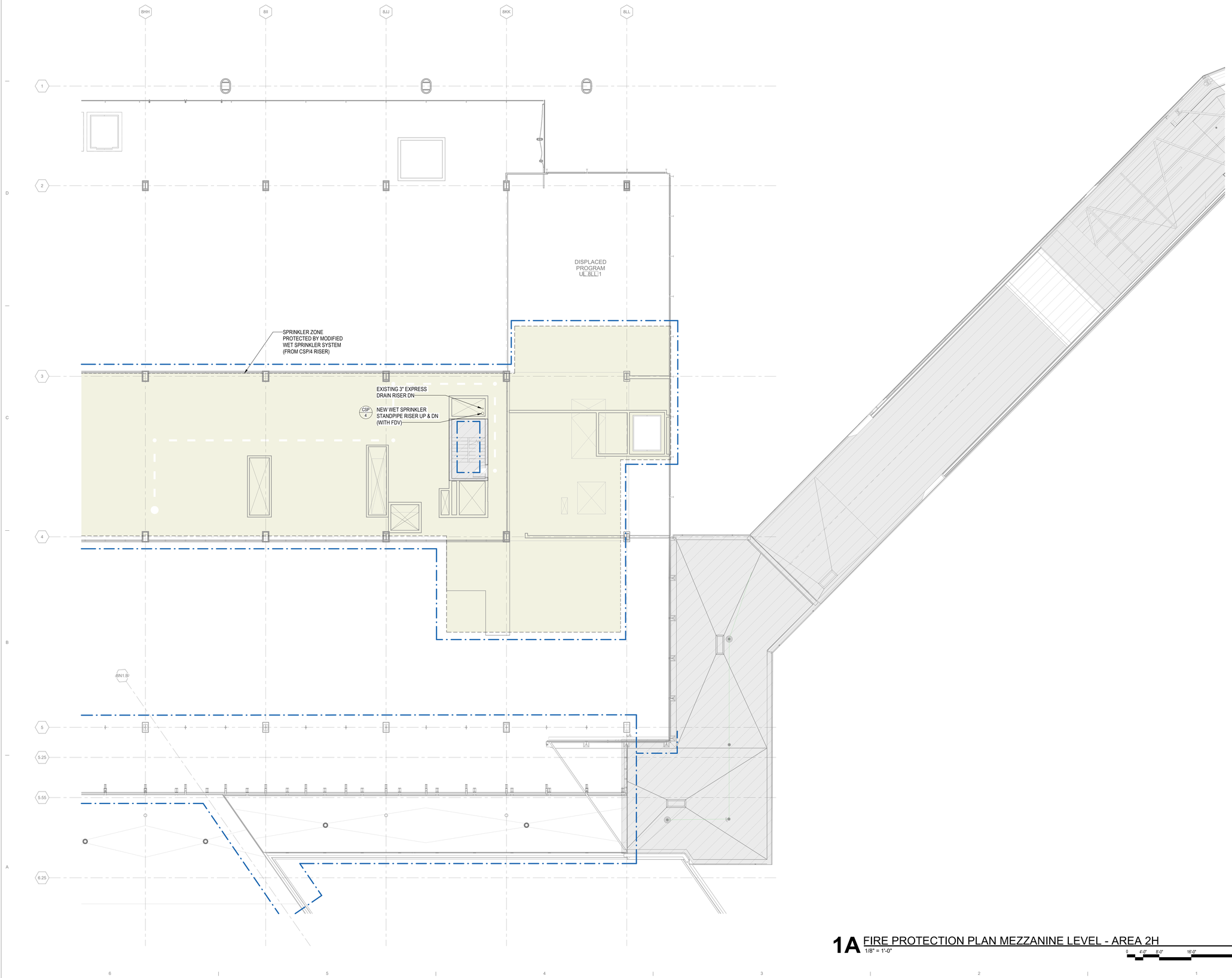

1A FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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JAMIE L. RHEE
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ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
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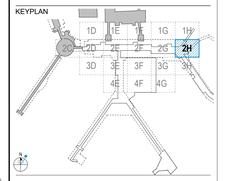
KEYPLAN



FIRE PROTECTION PLAN MEZZANINE LEVEL - AREA 2H

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SHEET NUMBER VOLUME: **2**

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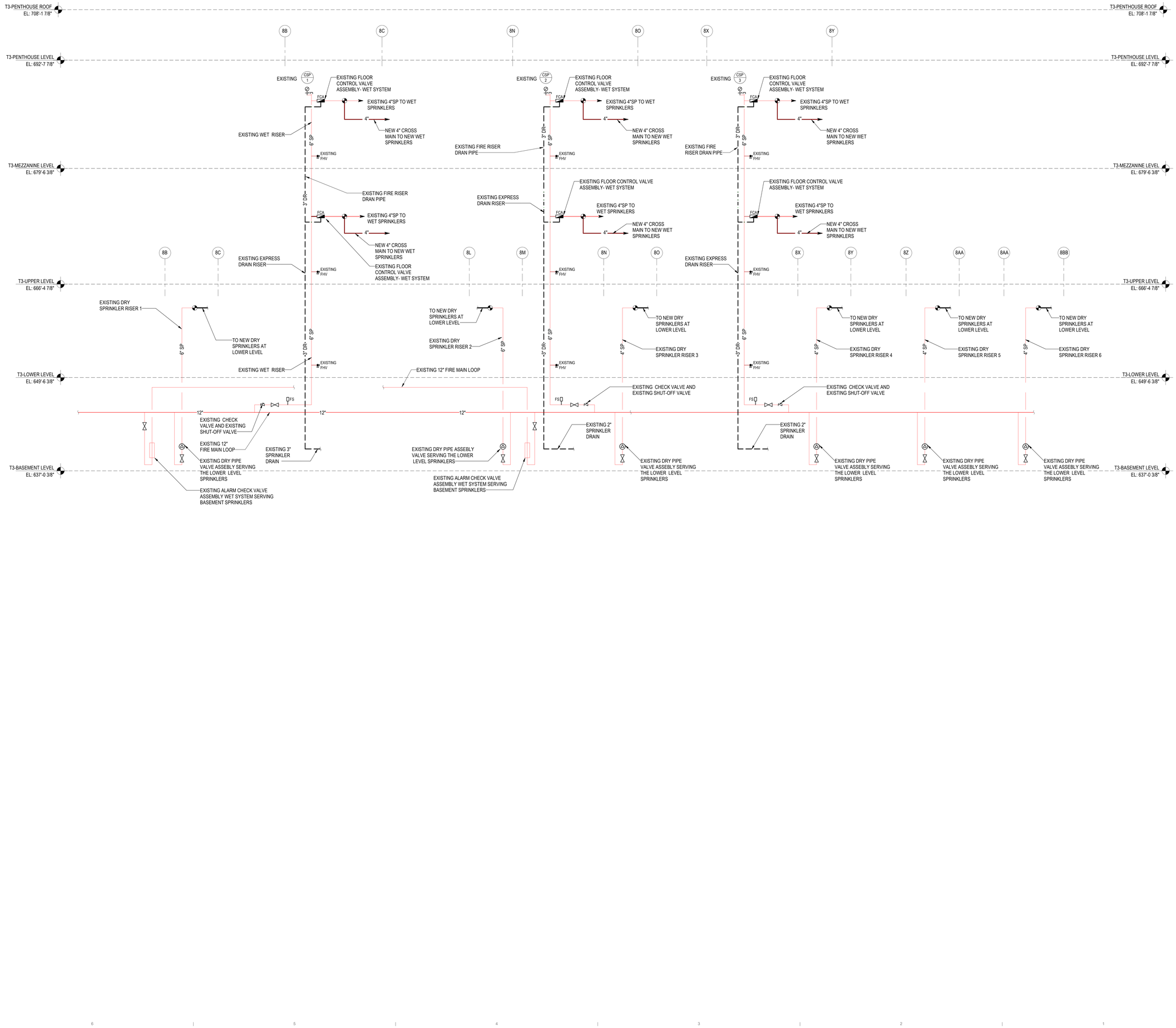

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FIRE PROTECTION DIAGRAMS

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FP4.01

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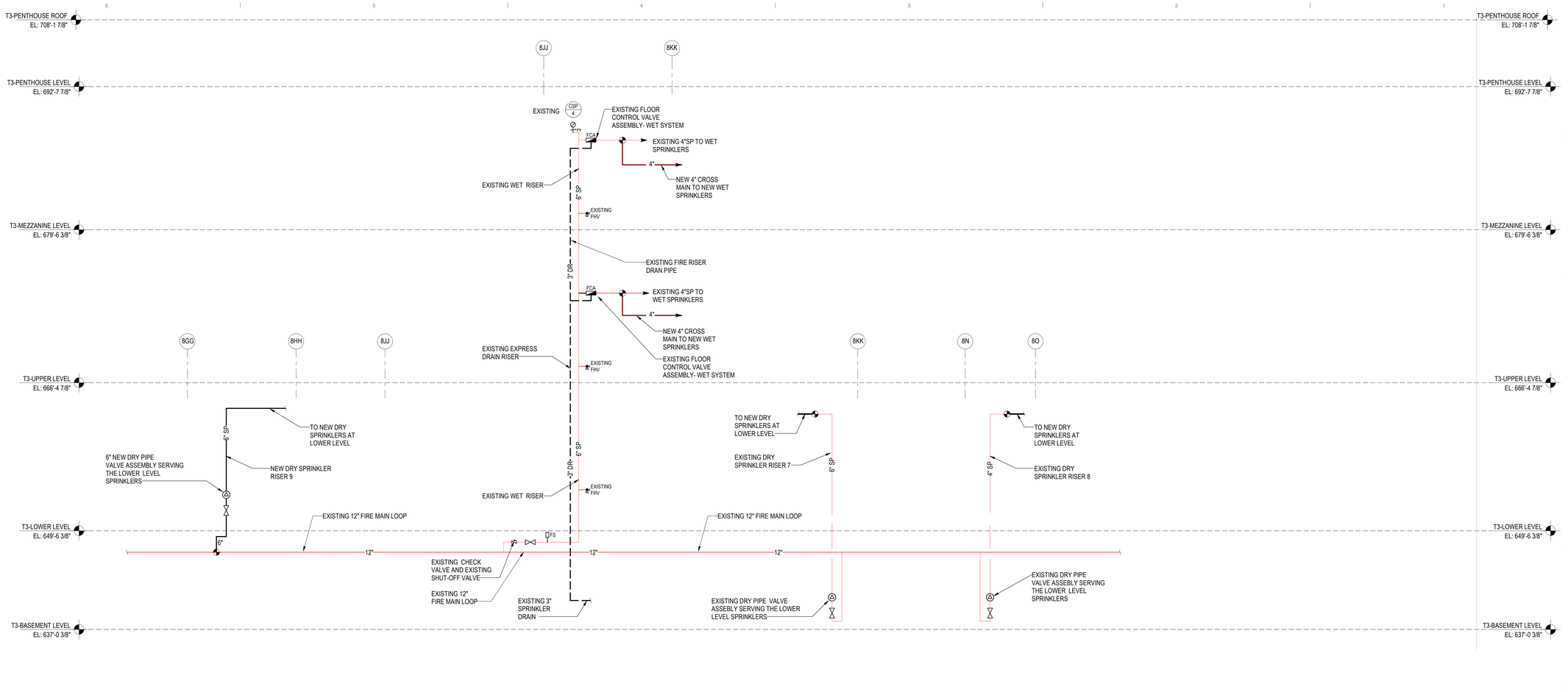

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FIRE PROTECTION DIAGRAMS

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VOLUME: **2**

FP4.02

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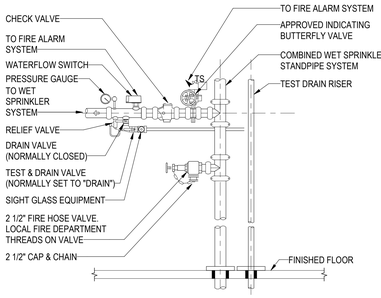
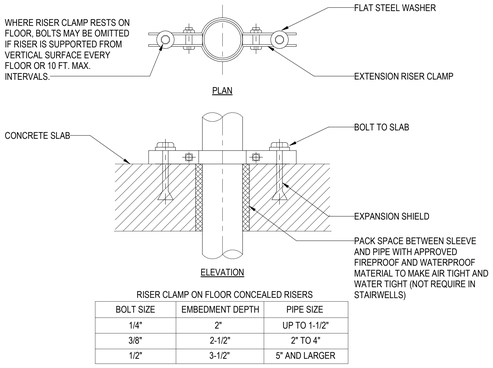


6B COMBINED STANDPIPE DETAIL WITH FCA

12" = 1'-0"

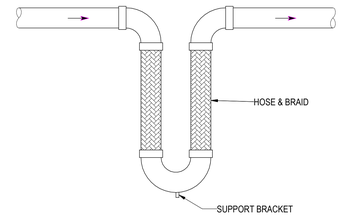


RISER CLAMP ON FLOOR CONCEALED RISERS

BOLT SIZE	EMBEDMENT DEPTH	PIPE SIZE
1/4"	2"	UP TO 1-1/2"
3/8"	2-1/2"	2" TO 4"
1/2"	3-1/2"	5" AND LARGER

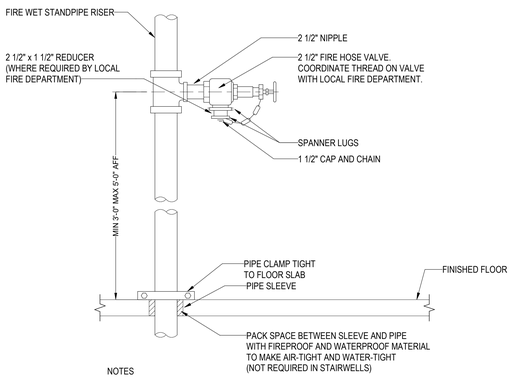
4B PIPE RISER SUPPORT

12" = 1'-0"



1B FIRE PIPE EXPANSION FITTING

12" = 1'-0"

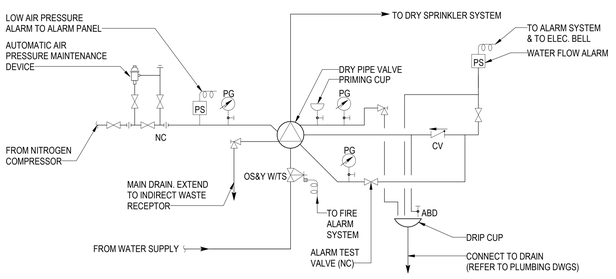


NOTES

1. PRVs SHALL BE INSTALLED WHERE THE PRESSURE AT THE HOSE CONNECTION IS 175 PSI OR GREATER.
2. COORDINATE FIRE HOSE VALVE LOCATIONS WITH EGRESS PATH WITHIN STAIRWELLS. VALVE SHALL NOT ENCROACH UPON REQUIRED EGRESS WIDTHS.

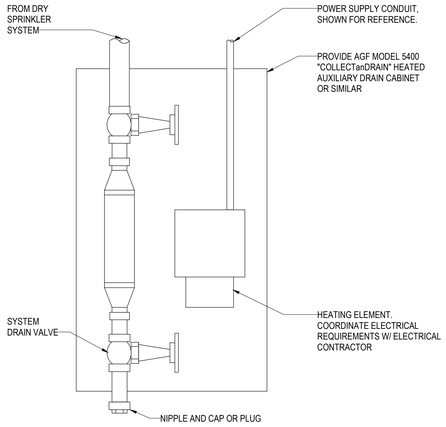
6A FIRE HOSE VALVE

12" = 1'-0"



4A TYPICAL DRY VALVE PIPE SCHEMATIC

12" = 1'-0"



1A SYSTEM TEST CONNECTION ON DRY PIPE SYSTEM

12" = 1'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

FIRE PROTECTION DETAILS

DRAWN BY: **MC** CHECKED BY: **RH**
SHEET NUMBER: **FP8.01** VOLUME: **2**

3/19/2023 7:39:02 PM

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KEYED NOTES (#)

1 EXISTING MAIN FIRE ALARM ROOM LOCATED IN BASEMENT OF HEAD HOUSE. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, ZONING, SEQUENCE OF OPERATIONS, AND ALL OTHER FUNCTIONS OF THE EXISTING SYSTEM IN FIELD. (TYPICAL)

2 EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL VERIFY LOCATION IN FIELD. DEMOLISH ALL DEVICES, CONDUITS, CONDUCTORS, BACK TO PANEL IN ZONES INTENDED TO BE DEMOLISHED. FIRE ALARM DEVICES ON LOWER LEVEL ABOVE OR UPPER LEVEL BELOW SHALL BE DEMOLISHED BACK TO PANELS AS SHOWN. SEE OTHER LEVELS FOR ADDITIONAL DETAILS. (TYPICAL)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATION OF FIRE ALARM DEVICES AND EQUIPMENT IN FIELD. HATCHED EQUIPMENT AND ASSOCIATED FEEDERS ARE TO BE DEMOLISHED, NON-HATCHES EQUIPMENT AND FEEDERS ARE TO EXISTING TO REMAIN.
2. CONTRACTOR SHALL PROVIDE TEMPORARY POWER AS REQUIRED FOR THE PHASING OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING FIRE ALARM TO REMAIN.
3. CONTRACTOR SHALL COORDINATE ALL PHASING WITH OTHER TRADES.
4. COORDINATE ADDITIONAL DEMOLITION DETAILS WITH ARCHITECTURAL DRAWINGS.

FCP (IRC-0007) 2

2 FCP (IRC-0014)

FCP (IRC-0013) 2

1

1A OVERALL FIRE ALARM DEMOLITION PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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KEYPLAN

OVERALL FIRE ALARM DEMOLITION PLAN - BASEMENT LEVEL

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FAD1.1.01

3/20/2023 1:07:34 AM

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KEYED NOTES (#)

1 CONTRACTOR TO DEMOLISH ALL EXISTING FIRE ALARM SYSTEM DEVICES, CONDUIT, CONDUCTORS, HANGERS/RACEWAYS, AND ASSOCIATED APPURTENANCES WITHIN THE AREA BACK TO SOURCE.

2 EXISTING AREA WITHIN HATCH IS OUT OF THE SCOPE OF THE FIRE ALARM SYSTEM MODIFICATIONS, HOWEVER CONTRACTOR MAY NEED TO DEMOLISH CONDUITS, AND OTHER ASSOCIATED WORK WITHIN THIS AREA. (TYPICAL)

3 AREA IS TO DENOTE THE ANTICIPATED DEMOLITION AREA OF WORK FOR THE MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM. AS PART OF THE CONTRACTORS DELEGATED DESIGN THEY SHALL VERIFY ALL OF THE EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO DEVICE LOCATIONS, TYPES, ZONES, FUNCTION, SEQUENCE OF OPERATION AND ALL OTHER ASSOCIATED INFORMATION FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUITY OF SERVICE TO MAINTAIN THE EXISTING SERVICES OF THE ACTIVE BUILD AND PROVIDE FIRE WATCH AS REQUIRED. (TYPICAL)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATION OF FIRE ALARM DEVICES AND EQUIPMENT IN FIELD. HATCHED EQUIPMENT AND ASSOCIATED FEEDERS ARE TO BE DEMOLISHED, NON-HATCHES EQUIPMENT AND FEEDERS ARE TO EXISTING TO REMAIN.
2. CONTRACTOR SHALL PROVIDE TEMPORARY POWER AS REQUIRED FOR THE PHASING OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING FIRE ALARM TO REMAIN.
3. CONTRACTOR SHALL COORDINATE ALL PHASING WITH OTHER TRADES.
4. COORDINATE ADDITIONAL DEMOLITION DETAILS WITH ARCHITECTURAL DRAWINGS.

1A OVERALL FIRE ALARM DEMOLITION PLAN - LOWER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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KEYPLAN

OVERALL FIRE ALARM DEMOLITION PLAN - LOWER LEVEL

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FAD1.1.02

3/24/2023 11:07:47 AM

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KEYED NOTES #

1 EXISTING FIRE ALARM SYSTEM DEVICES WITHIN HATCHED AREA TO BE DEMOLISHED. CONTRACTOR TO DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, AND ASSOCIATED APPURTENANCES BACK TO NEAREST FIRE ALARM CONTROL PANEL.

2 EXISTING AREA WITHIN HATCH AND/OR CLEAR AREA IS OUT OF THE SCOPE OF THE FIRE ALARM SYSTEM MODIFICATIONS, HOWEVER CONTRACTOR MAY NEED TO DEMOLISH CONDUITS, AND OTHER ASSOCIATED WORK WITHIN THIS AREA. (TYPICAL)

3 AREA IS TO DENOTE THE ANTICIPATED DEMOLITION AREA OF WORK FOR THE MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM. AS PART OF THE CONTRACTORS DELEGATED DESIGN THEY SHALL VERIFY ALL OF THE EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO DEVICE LOCATIONS, TYPES, ZONES, FUNCTION, SEQUENCE OF OPERATION AND ALL OTHER ASSOCIATED INFORMATION FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUITY OF SERVICE TO MAINTAIN THE EXISTING SERVICES OF THE ACTIVE BUILD AND PROVIDE FIRE WATCH AS REQUIRED. (TYPICAL)

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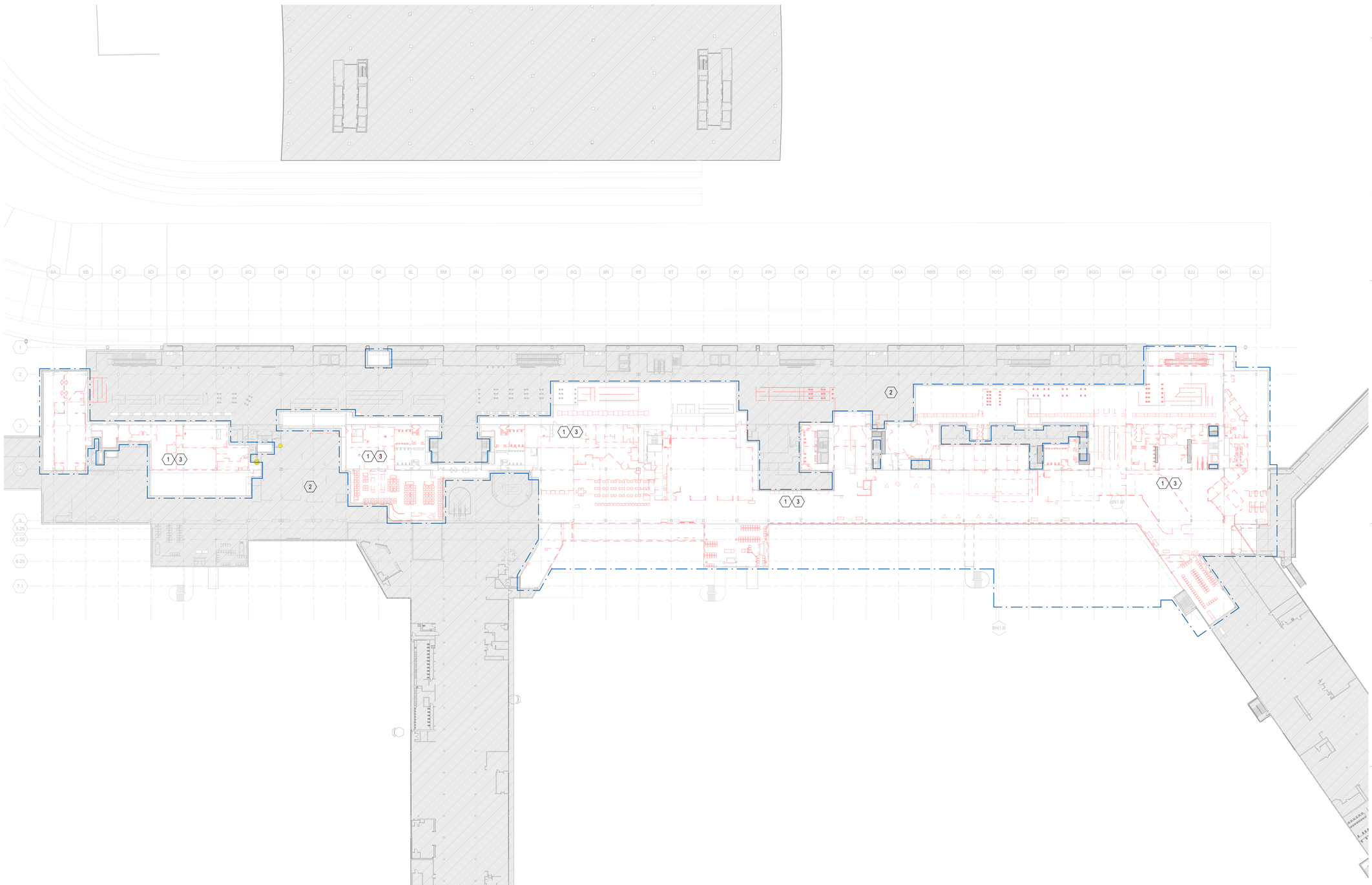
3. CONTRACTOR SHALL COORDINATE ALL PHASING WITH OTHER TRADES.
4. COORDINATE ADDITIONAL DEMOLITION DETAILS WITH ARCHITECTURAL DRAWINGS.



1A OVERALL FIRE ALARM DEMOLITION PLAN - UPPER LEVEL
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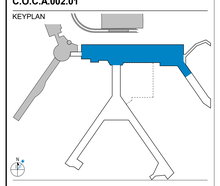
NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



OVERALL FIRE ALARM DEMOLITION PLAN - UPPER LEVEL

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FAD1.1.03

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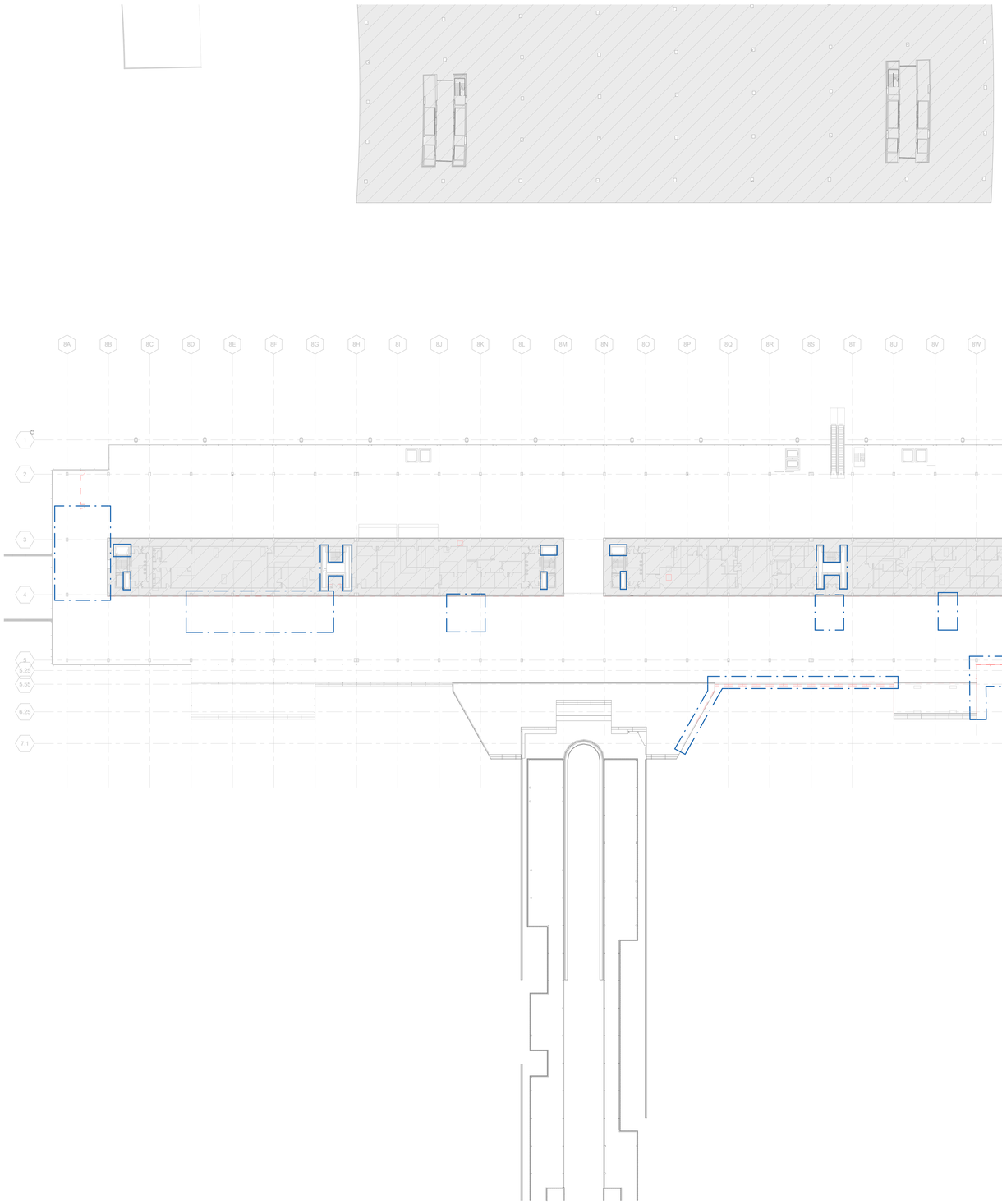
KEYED NOTES #

1 CONTRACTOR TO DEMOLISH ALL EXISTING FIRE ALARM SYSTEM DEVICES, CONDUIT, CONDUCTORS, HANGERS/RACEWAYS, AND ASSOCIATED APPURTENANCES WITHIN THE HATCHED AREA BACK TO SOURCE.

2 HATCH IS TO DENOTE THE ANTICIPATED DEMOLITION AREA OF WORK FOR THE MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM. AS PART OF THE CONTRACTORS DELEGATED DESIGN THEY SHALL VERIFY ALL OF THE EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO DEVICE LOCATIONS, TYPES, ZONES, FUNCTION, SEQUENCE OF OPERATION AND ALL OTHER ASSOCIATED INFORMATION FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUITY OF SERVICE TO MAINTAIN THE EXISTING SERVICES OF THE ACTIVE BUILD AND PROVIDE FIRE WATCH AS REQUIRED. (TYPICAL)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATION OF FIRE ALARM DEVICES AND EQUIPMENT IN FIELD. HATCHED EQUIPMENT AND ASSOCIATED FEEDERS ARE TO BE DEMOLISHED, NON-HATCHES EQUIPMENT AND FEEDERS ARE TO EXISTING TO REMAIN.
2. CONTRACTOR SHALL PROVIDE TEMPORARY POWER AS REQUIRED FOR THE PHASING OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING FIRE ALARM TO REMAIN.
3. CONTRACTOR SHALL COORDINATE ALL PHASING WITH OTHER TRADES.
4. COORDINATE ADDITIONAL DEMOLITION DETAILS WITH ARCHITECTURAL DRAWINGS.



1A OVERALL FIRE ALARM DEMOLITION PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

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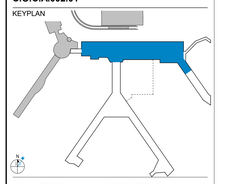

OVERALL FIRE ALARM DEMOLITION PLAN - MEZZANINE LEVEL

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KEYED NOTES (#)

1 CONTRACTOR TO REMOVE EXISTING DUCT SMOKE DETECTOR FOR FANS THAT ARE TO BE DEMOLISHED. REMOVE EXISTING POWER AND CONTROL WIRING BACK TO FIRE ALARM CONTROL PANEL (TYPICAL).

2 EXISTING FIRE ALARM CONTROL PANEL, CONTRACTOR SHALL VERIFY LOCATION IN FIELD. DEMOLISH ALL DEVICES, CONDUITS, CONDUCTORS, BACK TO PANEL IN ZONES INTENDED TO BE DEMOLISHED. FIRE ALARM DEVICES ON LOWER LEVEL ABOVE OR UPPER LEVEL BELOW SHALL BE DEMOLISHED BACK TO PANELS AS SHOWN. SEE OTHER LEVELS FOR ADDITIONAL DETAILS. (TYPICAL)

3 AREA IS TO DENOTE THE ANTICIPATED DEMOLITION AREA OF WORK FOR THE MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM. AS PART OF THE CONTRACTORS DELEGATED DESIGN THEY SHALL VERIFY ALL OF THE EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO DEVICE LOCATIONS, TYPES, ZONES, FUNCTION, SEQUENCE OF OPERATION AND ALL OTHER ASSOCIATED INFORMATION FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUITY OF SERVICE TO MAINTAIN THE EXISTING SERVICES OF THE ACTIVE BUILD AND PROVIDE FIRE WATCH AS REQUIRED. (TYPICAL)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATION OF FIRE ALARM DEVICES AND EQUIPMENT IN FIELD. HATCHED EQUIPMENT AND ASSOCIATED FEEDERS ARE TO BE DEMOLISHED, NON-HATCHES EQUIPMENT AND FEEDERS ARE TO EXISTING TO REMAIN.
2. CONTRACTOR SHALL PROVIDE TEMPORARY POWER AS REQUIRED FOR THE PHASING OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING FIRE ALARM TO REMAIN.
3. CONTRACTOR SHALL COORDINATE ALL PHASING WITH OTHER TRADES.
4. COORDINATE ADDITIONAL DEMOLITION DETAILS WITH ARCHITECTURAL DRAWINGS.

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FACP (IRC 0009) 2

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1A OVERALL FIRE ALARM DEMOLITION PLAN - PENTHOUSE

1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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KEYPLAN

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DRAWN BY: **FK** CHECKED BY: **MC**
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ABBREVIATION	DESCRIPTION
A, AMP	AMPERE
AC	ALTERNATING CURRENT
ADDR.	ADDRESSABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE PERFORATED CEILING
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPS INTERRUPTING CAPACITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ALARM PANEL, ACCESS PANEL
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BSMT	BASEMENT
C	CONDUIT
C.O., CO	CONDUIT ONLY
CB	CIRCUIT BREAKER
CE	CONNECT TO EXISTING
CH	CABINET HEIGHT
CKT	CIRCUIT
CL	CENTERLINE, CLOSE, CLOSET
CLG	CEILING
CM	CONSTRUCTION MANAGER
COL	COLUMN
CONFIG.	CONFIGURATION
CONN	CONNECT, CONNECTION
CONV	CONVENIENCE
(D)	EXISTING TO BE DEMOLISHED
DDC	DIGITAL DATA CONTROL
DEMO	DEMOLITION
DN	DOWN
DWG	DRAWING
(E)/EX	EXISTING TO REMAIN
E.O.	ELECTRICALLY OPERATED "ON-OFF"
EC	ELECTRICAL CONTRACTOR
EFSO	EMERGENCY FUEL SHUT OFF
EL	ELEVATION, ELEVATOR LOBBY
ELEC	ELECTRIC, ELECTRICAL
EM	EMERGENCY
EMR	ELEVATOR MACHINE ROOM
EMT	ELECTRICAL METALLIC TUBING
EOLR	END OF LINE RESISTOR
(ER)	EXISTING TO BE RELOCATED
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
(F)	FUTURE
F	FIRE SERVICE, FAHRENHEIT, FEMALE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAI	FURNISH AND INSTALL
FAP	FIRE ALARM PANEL
FAS	FIRE ALARM SYSTEM
FBO	FURNISHED BY OTHERS
FL / FLR	FLOOR
FLA	FULL LOAD AMPS
FS	FIRE SHUTTER/DOOR
FSD	FIRE SMOKE DAMPER
FT	FOOT, FEET
G, GND	GROUND
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
H	HEIGHT
HC	HUNG CEILING
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HZ	HERTZ
IBEC	INSTALLED BY ELECTRICAL CONTRACTOR
IG	ISOLATED GROUND
IN	INCH
JB,J	JUNCTION BOX
KVA	KILO VOLT- AMPERE
KW	KILO WATT
KWH	KILO WATT HOUR
LAP	LOCAL ALARM PANEL
LC	LOCK & COVER
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LV	LOW VOLTAGE
LVR	LOW VOLTAGE RELAY
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PANEL
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MIN	MINIMUM, MINUTE
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTGHT	MOUNTING HEIGHT
N	NEUTRAL
N.C.	NORMALLY CLOSED
NA, N/A	NOT APPLICABLE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NO, #	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
CBC	CHICAGO BUILDING CODE
CEC	CHICAGO ELECTRICAL CODE
CMC	CHICAGO MECHANICAL CODE
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
P	POLES
PA	PUBLIC ADDRESS
PB	PULL BOX
PFC	POWER FACTOR CORRECTION
PH, ø	PHASE
PLBG	PLUMBING
PNL	PANEL
PR	PAIR
PVC	POLYVINYL CHLORIDE
PWR	POWER
(R)	REMOVE EXISTING
RC	REHEAT COIL
RECPT	RECEPTACLE
REQD	REQUIRED
REV	REVISED, REVISION
RM	ROOM
S.P.	SHIELDED PAIR
SG	SIGNAGE
SHT	SHEET
SL	SLEEVE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATIONS
SPST	SINGLE POLE SINGLE THROW
SQ.FT	SQUARE FEET
SS	SURGE SUPPRESSION
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR

ABBREVIATION	DESCRIPTION
T.P.	TWISTED PAIR
T.S.P.	TWISTED SHIELDED PAIR
TC	TIME CLOCK
TOS	TOP OF SHAFT
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNF	UNFUSED
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT, VENT, VIDEO
VA	VOLT-AMPERES
VERT	VERTICAL
VPI	VACUUM PRESSURE IMPREGNATION
VT	VAPORIGHT
W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
WT	WEIGHT
WTR	WATER
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

FIRE ALARM NOTES:

1. ALL MATERICAL AND WORKMANSHIP SHALL CONFORM TO THE 2018 CHICAGO ELECTRICAL CODE, 2016 NFPA 72, 2019 CHICAGO BUILDING CODE, REGULATIONS AND APPLICABLE GUIDELINES.
2. INSTALL FIRE ALARM SMOKE DETECTORS, STROBE LIGHTS AND HORNS AS INDICATED ON THE PLANS. EXACT LOCATION OF DEVICES SHALL BE AS PER ARCHITECT'S DRAWING.
3. THE STROBE SHALL BE WALL MOUNTED 80 IN (2030mm) ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6 IN (152mm) BELOW THE CEILING WHICHEVER IS THE LOWER.
4. ALL HORN STROBES AND STROBES SHALL BE 75 CD U.O.N.
5. INCLUDE ALL FEES FOR FILING, APPROVALS, FINAL CONNECTIONS AND SYSTEM REPROGRAMMING.
6. FIRE ALARM NOTIFICATION AND INITIATION CIRCUITS SHALL BE WIRED FOR CLASS B REQUIREMENTS.
7. PROVIDE AS PART OF THIS CONTRACT ALL DEVICES, CONTROL PANELS, RELAY MODULES CONDUIT AND WIRES NECESSARY FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
8. ALL THE ALARM IDENTIFICATION CODES FOR INDIVIDUAL DEVICES SHALL BE COORDINATED AND APPROVED BY AHJ BEFORE IMPLEMENTING SOFTWARE PROGRAMMING.
9. ALL STROBE, HORN/STROBE, AND SPEAKER/STROBE DEVICES SHALL HAVE A WHITE FINISH. PULL STATIONS TO HAVE A RED FINISH PER CODE.
10. TEST AND REPROGRAM EXISTING SYSTEM.
11. THE FIRE ALARM SYSTEM SHALL TRANSMIT ALL ADDRESSABLE POINTS TO CENTRAL MONITORING STATION IN ORDER TO PROVIDE THE COMPLETE STATUS OF ALL ALARMS AND TROUBLE SIGNS.
12. THE FIRE ALARM SYSTEM INSTALLATION SHALL MATCH THE EXISTING FIRE ALARM SYSTEM CONFIGURATION. THE ENTIRE FIRE ALARM SYSTEM AND EACH MAJOR COMPONENT SUCH AS ZONES, LOOPS CIRCUITS, PANEL COMPONENTS, POWER SUPPLIES, ETC. SHALL HAVE A MINIMAL 20% SPACE CAPACITY.
13. IN THE EVENT THAT FIRE DETECTION OR SUPPRESSION DEVICES ARE RELOCATED OR DAMAGED (AND REPLACED WITH NEW DEVICES) DURING THE PROPOSED WORK, ALL NEW AND/OR RELOCATED FIRE DETECTION AND SUPPRESSION DEVICES SHALL BE INSTALLED, TESTED, AND ACCEPTED PRIOR TO OCCUPANCY. THIS ALSO APPLIES TO WIRING TO EXISTING DEVICES, WHICH ARE CUT AND RECONNECTED DURING THE PROPOSED WORK.
14. DAMAGED FIRE DETECTION AND SUPPRESSION DEVICES SHALL BE REPLACED WITH NEW DEVICES THAT ARE IL APPROVED. THIS REQUIREMENT APPLIES TO ALL NEW DEVICES REGARDLESS OF THEIR BEING REPLACEMENTS FOR DAMAGED DEVICES.
15. MUST PROVIDE A CONTINUOUS FIRE WATCH IF THERE IS A FIRE ALARM SYSTEM IMPAIRMENT IN THE SPACE OF THE PROPOSED WORK OR OTHER AREAS AFFECTED BY THE CONSTRUCTION, AND THE CONTRACTOR SHALL NOTIFY THE FACILITIES MANAGER WHOM SHALL COMPLETE AN IMPAIRMENT NOTIFICATION FORM AND FORWARD IT TO THE PERSONS INDICATED ON THAT FORM.
16. EACH ALARM POINT MUST SEND THE CENTRAL STATION A RESTORE CODE.
17. EACH FIRE ALARM ZONE WILL NOT COVER MORE THAN 22,500 SQ.FT.
18. FIRE ALARM CONTROL PANEL (FACP) WILL BE INSTALLED IN EITHER IT CLOSETS OR ELECTRICAL CLOSETS. EACH FIRE ALARM DGP WILL SERVE NO MORE THAN (4) FIRE PROTECTION (SPRINKLER ZONES) OR EIGHT (8) FIRE ALARM ZONES FOR SIGNAL LINE CIRCUITS (SLC) AND NOTIFICATION APPLIANCE (NAC) CIRCUITS.
19. LABEL ALL DEVICES CONTAINING END OF LINE RESISTORS (EOL).
20. WHERE FIRE ALARM WIRING CABLE IS HOUSED IN CONDUIT, THE CONDUIT SHALL BE A MINIMUM OF ¾" DIAMETER.
21. COMPRESSION TYPE CONNECTOR FITTINGS SHALL BE USED FOR ALL EMT END CONNECTIONS.
22. ALL PULL STATIONS MUST BE DOUBLE ACTION ACTIVATED.
23. PAINT ALL FIRE ALARM CONDUIT JUNCTION BOXES AND CONDUITS RED.
24. CONCOURSE A EXISTING FIRE ALARM NETWORK LOOP TO BE EXTENDED TO NEW FACP PANEL LOCATIONS.
25. THE CONTRACTOR SHALL USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND ALL OTHER RELEVANT CONSULTANT DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE ENGINEER IMMEDIATELY IN THE EVENT OF A DISCREPANCY BETWEEN THESE DOCUMENTS.
26. ALL BIM MODELS AND ELECTRONIC VERSIONS OF DRAWINGS SHALL BE USED FOR INFORMATION ONLY. THESE DRAWINGS SHALL GOVERN OVER BIM MODELS AND ELECTRONIC VERSIONS OF DRAWINGS IN THE EVENT OF ANY DISCREPANCY. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE ENGINEER IMMEDIATELY IN THE EVENT OF A DISCREPANCY.
27. SCALES NOTED ON DRAWINGS ARE FOR REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY SCALING FROM THE DRAWINGS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY TAKING MEASUREMENTS FROM BIM MODELS OR ELECTRONIC DRAWINGS. ONLY DIMENSIONS EXPLICITLY WRITTEN ON THESE DRAWINGS SHALL BE USED. THE CONTRACTOR SHALL VERIFY DIMENSIONS NOT NOTED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
28. THE CONTRACTOR SHALL PERFORM AUDIBLE AMBIENT AND ALARM TESTING WITH A CALIBRATED METER AS PER NFPA 72. THE CONTRACTOR SHALL CHANGE ALL NECESSARY SPEAKER TAP SETTINGS AT NO COST TO THE OWNER FOR COMPLIANCE WITH THE AUDIBLE REQUIREMENTS IN NFPA 72 AND TO MAINTAIN INTELLIGIBILITY WITHIN THE SPACES. SPACES EXCLUDED FROM INTELLIGIBILITY ARE MECHANICAL ROOMS, BAGGAGE HANDLING BACK OF HOUSE CONVEYOR AREAS, AND OUTDOOR ROOF AREAS.
29. APPLIANCES AND DEVICES SHALL BE LOCATED TO AVOID OBSTRUCTIONS, I.E. IN MECHANICAL ROOMS, STROBES SHALL NOT BE INSTALLED WHERE EQUIPMENT AND DUCTS BLOCK THE FLASHING LIGHT. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT THE EQUIPMENT LOCATIONS ARE IN ACCORDANCE WITH NFPA 72.
30. ALL VISIBLE NOTIFICATION APPLIANCES (STROBES) SHALL BE SYNCHRONIZED THROUGHOUT THE ENTIRE BUILDING.
31. ONLY CABLING TERMINATING IN THE FIRE ALARM CONTROL UNITS AND TERMINAL CABINETS IS PERMITTED TO BE INSTALLED WITHIN THE ENCLOSURE. CABLES ARE NOT PERMITTED TO PASS THROUGH THE CABINETS TO CONNECT TO OTHER EQUIPMENT.
32. FIRE ALARM DEVICES AND APPLIANCES SHALL NOT BE INSTALLED ABOVE ELECTRICAL EQUIPMENT (INCLUDING SWITCHGEAR, TRANSFORMERS, ETC.). EQUIPMENT SHALL BE LOCATED TO FACILITATE INSPECTION, TESTING AND MAINTENANCE.
33. COORDINATE FIRE ALARM WORK WITH WORK OF OTHER TRADES PRIOR TO INSTALLATION AND FABRICATION. READ THESE PLANS IN CONJUNCTION WITH ALL OTHER DISCIPLINES.
34. PROVIDE REMOTE LED INDICATOR FOR ALL DEVICES ABOVE CEILINGS (MODULES, SMOKE DETECTORS, DUCT SMOKE DETECTORS ETC.), AND/OR FOR ALL DEVICES NOT DIRECTLY IN VIEW FROM THE FINISHED FLOOR LEVEL.
35. DUCT SMOKE DETECTORS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION. IF THE LED ON THE DETECTOR IS NOT VISIBLE FROM THE FLOOR INCLUDING ABOVE CEILINGS, A REMOTE LED SHALL BE PROVIDED. ALL SAMPLING TUBES SHALL EXTEND THE FULL WIDTH OF THE DUCT REGARDLESS OF DUCT WIDTH. THE CONTRACTOR SHALL DOCUMENT PRESSURE DIFFERENTIAL MEASUREMENTS FOR ALL DUCT SMOKE DETECTORS.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DEVICE COUNTS AND LOCATIONS.
37. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL PLACEMENT, CIRCUITRY, DESIGN, SPACING AND TESTING OF FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72, NFPA 70 AND ALL OTHER APPLICABLE REGULATIONS.
38. THE INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION, STANDARD PRACTICE OF GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION (NECA 1-2010).
39. CONTRACTOR SHALL TEST ALL EQUIPMENT PER THE SEQUENCE OF OPERATIONS AND NFPA 72. CONTRACTOR RESPONSIBLE FOR END TO END TESTING TO CONFIRM ALL EQUIPMENT INTERFACED WITH THE FIRE ALARM PERFORMS THE INTENDED FUNCTION AS PER THE SEQUENCE OF OPERATIONS (I.E. FAN SHUTDOWN, DOOR RELEASE, ELEVATOR RECALL, ETC.) PROVIDE TESTING CERTIFICATE IN ACCORDANCE WITH NFPA 72.
40. CABLES SHALL BE LABELED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE, CHICAGO ELECTRICAL CODE (LATEST EDITION), SPECIFICATION REQUIREMENTS, NFPA STANDARDS AND ALL OTHER APPLICABLE CODES AND REGULATIONS. ALL WIRING INCLUDING THE GROUNDING IS TO BE INSTALLED ACCORDING TO THE LATEST VERSION OF THE CHICAGO ELECTRICAL CODE.
41. FIRE ALARM SYSTEM WIRING SHALL NOT BE INSTALLED IN THE SAME CONDUITS AS OTHER BUILDING SYSTEM WIRING.
42. ALL CIRCUITS, WIRING, EQUIPMENT, DEVICES ETC SHALL BE SUPERVISED.
43. ALL JUNCTION BOXES AND PULL BOXES SHALL BE APPROPRIATELY SIZED AS PER NFPA 70 TO ACCOMMODATE NUMBER OR CONDUIT/CONDUCTORS SHOWN WITH SPARE CAPACITY AS PER CONTRACT DOCUMENTS. ALL COVERS SHALL BE RED.
44. WHERE WEATHERPROOF DEVICES AND APPLIANCES ARE INDICATED, THE RACEWAY (CONDUIT, FITTINGS, JUNCTION BOXES, ETC) SHALL BE LIQUID TIGHT IN THE ROOM WHERE THE WEATHERPROOF EQUIPMENT IS LOCATED.

SEISMIC REQUIREMENTS:

1. PROVIDE SEISMIC SUPPORTS FOR FIRE ALARM PANELBOARDS AND FIRE ALARM CONDUITS AS REQUIRED BY CHICAGO BUILDING CODE.
2. PROVIDE CALCULATIONS CERTIFIED BY IL PROFESSIONAL ENGINEER CERTIFYING SUPPORTS COMPLY WITH REQUIRED SEISMIC REQUIREMENTS.
3. SEISMIC SUPPORTS SHALL BE PROVIDED AS PER SPECIFICATION SECTION 260500 AND 260529.
4. PROVIDE ALLOWANCE FOR THE PERIODIC SPECIAL INSPECTION DURING ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY POWER SYSTEMS.

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FIRE ALARM GRAPHIC KEYS AND ABBREVIATIONS

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER **FA0.01** VOLUME: **2**

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GENERAL FIRE ALARM NOTES:

1. ALL NEW DEVICES MUST BE COMPATIBLE WITH THE EXISTING SIEMENS XLS SYSTEM.

2. SUPPLY AIR DUCTS SHALL CONTAIN ADDRESSABLE IONIZATION TYPE DUCT SMOKE DETECTORS. RETURN AIR DUCTS SHALL CONTAIN ADDRESSABLE PHOTOELECTRIC DUCT SMOKE DETECTORS. EACH DUCT DETECTOR SHALL ALSO INCLUDE TWO (2) INTERFACE RELAY MODULES. CONTRACTOR SHALL PROVIDE WIRING AND CONDUIT FROM RELAY TO FAN CONTROL PANEL FOR FAN SHUTDOWN. CONTRACTOR SHALL PROVIDE WIRE AND CONDUIT FROM SECOND RELAY TO NEAREST BAS PANEL. WHEN CONNECTING TO EXISTING FIRE ALARM LOOP, T CONNECTIONS ARE NOT ALLOWED.

3. CONTRACTOR IS TO REMOVE EXISTING DUCT DETECTOR DEVICES FOR UNITS RECEIVING NEW DETECTORS. CONTRACTOR IS TO REMOVE EXISTING 120V POWER WIRING AND CONDUIT FEEDING THE EXISTING DUCT DETECTORS.

4. EXISTING COMMUNICATIONS WIRING RUNNING FROM EXISTING DUCT DETECTORS TO EXISTING SIEMENS XLS PANELS MAY BE REUSED.

5. A PROGRAMMABLE SHUTDOWN RELAY SHALL BE INSTALLED FOR EACH AHU.

6. CONTRACTOR SHALL COORDINATE AND WORK WITH SIEMENS TO PROGRAM ALL NEW DETECTORS AND NEW SHUTDOWN RELAYS.

7. CONTRACTOR SHALL COORDINATE AND WORK WITH SIEMENS TO ADD NEW DUCT SMOKE DETECTORS TO THE SIEMENS DATABASE/SMS SYSTEM.

8. EACH DUCT SMOKE DETECTOR SHALL HAVE A KEYED REMOTE TEST SWITCH ADJACENT TO FACP FOR EACH DUCT DETECTOR.

9. FIRE DETECTION AND ALARM SYSTEM: FURNISH AND INSTALL UL-LISTED FIRE DETECTION AND ALARM DEVICES AS DESCRIBED HEREIN AND AS SHOWN ON THE PLANS. THE SYSTEM SHALL BE WIRED, CONNECTED, AND LEFT IN FULLY OPERATING CONDITION. THE CONTRACTOR IS TO PROVIDE ALL DEVICES, EQUIPMENT, CONDUIT, WIRING, AND LABOR NECESSARY TO PROVIDE A COMPLETE NEW APPROVED FIRE DETECTION AND ALARM SYSTEM CONSISTING OF, BUT NOT LIMITED TO, THE FOLLOWING:

   9.1. DUCT-TYPE SMOKE DETECTORS IN AIR HANDLING UNITS.
   9.2. ALL CONDUIT, WIRING, CONNECTIONS TO DEVICES, OUTLET BOXES, JUNCTION BOXES AND ALL OTHER NECESSARY MATERIAL TO COMPLETE A MANUFACTURER APPROVED UL-LISTED AND CODE COMPLIANT SYSTEM THAT COMPLIES WITH ALL PROVISIONS OF THIS SPECIFICATION AND THE MANUFACTURER'S PUBLISHED WIRE/CABLE INSTALLATION GUIDELINES FOR FACILITIES WITH THE PRESENCE OF RADIO FREQUENCY INTERFERENCE (RFI) AND ELECTROMAGNETIC INTERFERENCE (EMI).
   9.3. CONNECTIONS TO FAN CONTROL APPARATUS AS REQUIRED TO STOP IN ACCORDANCE WITH THE CONTROL SEQUENCES DESCRIBED ON THE MECHANICAL SYSTEMS PLANS.

10. CONTRACTOR SHALL TEST AND ADJUST ALL FIRE ALARM EQUIPMENT.

11. CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL FIRE ALARM EQUIPMENT SPECIFIED ON DRAWINGS.

12. FIRE ALARM WARRANTY PERIOD: THE CONTRACTOR SHALL WARRANTY ALL MATERIALS AND WORKMANSHIP DURING THE INSTALLATION PERIOD AND A PERIOD OF 1-YEAR BEGINNING FROM THE DATE OF FINAL ACCEPTANCE BY THE CDA FAA (IMMEDIATELY AFTER THE CAI). THE CONTRACTOR SHALL BE RESPONSIBLE DURING THE DESIGN, INSTALLATION, TESTING AND WARRANTY PERIODS FOR ANY DAMAGE CAUSED BY HIM OR HIS SUBCONTRACTORS OR BY DEFECTS IN HIS OR HIS SUBCONTRACTORS' WORK, MATERIALS, OR EQUIPMENT.

13. SPURIOUS ALARMS: IF THE FAA CDA EXPERIENCES AN UNACCEPTABLE NUMBER OF SPURIOUS OR UNEXPLAINED FALSE ALARMS DURING THE INSTALLATION AND WARRANTY PERIODS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY LABOR, MATERIAL, AND TECHNICAL EXPERTISE TO CORRECT THE PROBLEM TO THE SATISFACTION OF, AND AT NO COST TO THE FAACDA. THE FOLLOWING NUMBER OF SPURIOUS ALARMS, CALCULATED AS A RATIO OF FALSE ALARMS TO NUMBER OF INITIATION DEVICES, SHALL BE CONSIDERED UNACCEPTABLE:

   13.1. AUTOMATIC (SYSTEM CONNECTED) SMOKE DETECTORS - 2 SPURIOUS ALARMS SHALL BE CONSIDERED THE MINIMUM NUMBER OF UNACCEPTABLE ALARMS DURING ANY 6-MONTH PERIOD. WHERE MORE THAN 100 DETECTORS ARE INSTALLED, MORE THAN 2 SPURIOUS ALARMS PER 100 DETECTORS PER ANY 6-MONTH PERIOD DURING THE SYSTEM WARRANTY PERIOD SHALL BE CONSIDERED UNACCEPTABLE.
   13.2. AUTOMATIC DUCT SMOKE DETECTORS - 2 SPURIOUS ALARMS SHALL BE CONSIDERED UNACCEPTABLE DURING ANY 6-MONTH PERIOD.

14. CONTRACTOR SHALL PROVIDE SPARE DUCT DETECTORS FOR TWO PERCENT OF THE INSTALLED QUANTITIES FOR EACH TYPE BUT NOT LESS THAN TWO OF EACH TYPE.

15. DUCT TYPE SMOKE DETECTORS SHALL BE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 72 AND NFPA 90A, AND IN ACCORDANCE WITH THE DETECTOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. DUCT SMOKE DETECTORS SHALL BE SUITABLE FOR THE FULL RANGE OF AIR VELOCITY CONDITIONS IN THE AIR-HANDLING SYSTEMS IN WHICH THEY ARE INSTALLED. CALCULATIONS OR MEASUREMENTS OF AIR VELOCITIES SHALL BE PROVIDED TO ENSURE DUCT DETECTORS ARE INSTALLED WITHIN THEIR UL-LISTED RANGE OF AIRFLOW AND PLACED APPROPRIATELY TO ACHIEVE REQUIRED AIR STREAM SAMPLING.

16. DUCT SMOKE DETECTORS SHALL BE SYSTEM OPERATED, ADDRESSABLE, PLUG-IN TYPE, PHOTOELECTRIC DETECTORS IN A DUCT-MOUNTED HOUSING EQUIPPED WITH AIR SAMPLING TUBES PROVIDING AIRFLOW THROUGH THE DETECTOR HOUSING. PENDANT-MOUNTED DUCT DETECTORS SHALL NOT BE PERMITTED. DUCT SMOKE DETECTORS SHALL BE LISTED OR APPROVED FOR THAT APPLICATION INCLUDING TEMPERATURE AND HUMIDITY LISTINGS. EACH DUCT SMOKE DETECTOR SHALL BE MONITORED INDIVIDUALLY VIA AN INTEGRAL, ANALOG ADDRESSABLE ELEMENT.

17. SAMPLING TUBES: SAMPLING TUBES SHALL EXTEND ACROSS THE FULL WIDTH OF THE DUCT. THE ENDS OF THE SAMPLING TUBES SHALL BE ACCESSIBLE FROM OUTSIDE THE DUCT AND SHALL BE SEALED WITH REMOVABLE PLUGS (TO FACILITATE DETECTOR TESTING). SAMPLING TUBES SHALL BE PERFORATED TYPE. SLOT TYPE SAMPLING TUBES SHALL NOT BE ACCEPTABLE. A SHORT PICK-UP TUBE NOT EXTENDING ACROSS THE WIDEST DIMENSION OF THE DUCT SHALL NOT BE ACCEPTABLE. ACCESS HATCHES SHALL BE PROVIDED TO INSPECT SAMPLING TUBES. REFER TO NFPA 72 AND NFPA 90A FOR GUIDANCE.

18. REMOTE TEST STATION: EACH DUCT SMOKE DETECTOR LOCATED MORE THAN 5 FEET ABOVE THE FLOOR SHALL BE PROVIDED WITH A MAGNETICALLY OPERATED REMOTE TEST STATION, INCORPORATING A REMOTE ALARM LED. TEST STATIONS SHALL BE LABELED WITH ENGRAVED, LAMINATED PLASTIC LABELS IDENTIFYING THE TYPE OF DETECTOR AND DETECTOR ADDRESS AND SHALL BE INSTALLED WITHIN 5 FEET OF THE FLOOR.

19. INTERFACE WIRING: PROVIDE NECESSARY INTERFACE WIRING TO FAN AND AIR-HANDLING UNIT OR MCC (MOTOR CONTROL CENTER) PANELS FOR SHUTDOWN OF FANS WHEN SMOKE IS DETECTED AND/OR SMOKE CONTROL MODE OPERATION.

20. AS PART OF THE DELEGATED DESIGN PER THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL PROVIDE ALL SIZING CALCULATIONS AND FURNISH REQUIRED BATTERIES FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM.

4B-013 - T3 Improvements & Supplemental Bagroom

Discipline	Scope Description	Task(s) to be Completed
Fire Alarm		
	Phasing	It is assumed that the existing bag claim will have to remain operational until new bag claim will be built and that portions of the existing systems will run simultaneously. Detailed phasing plan of cutovers within the bag room being developed by the BHS team and will need to be coordinated with the CMAR after the 60% submission. This will be further developed once the CMAR is on board.
	Program requirements	60% design assumes the following. (5) Kitchens, (2) by SSCP and (2) by the H/K concourse, and (1) in the new AA lounge. The (2) kitchens at the H/K concourse will require units on the roof Kitchenette in the USO space SSCP and restroom layouts per CDA revisions on 3/6. Mechanical will asssume old screening machines without A/C units for worst case cooling loads. Electrical and plumbing will assume new screening machnies with A/C units for worst case electrical loads and plumbing requirements. Utilities for these items are shown on the drawings. Detailed coordination with other trades will occur after the 60% submission.
	Displaced program	It is assumed program will be relocated within the building as part of this project. MEP services for these areas are shown on the drawings, however, the details of the program relocation as are to be coordinated after the 60% submission.
	Rotunda and OGT coordination	Scope of this project ends at face of concourse. ROW for future OGT conveyors within T3 are part of the T3 scope. Details of the new work and relocation of any existing systems within the ROW of the future OGT conveyors within T3 are in progress at this time and will be further developed and coordinated after the 60% design.There are several existing mechanical utilities that will be impacted by the future OGT conveyor ROW and will require relocation.
	Existing Conditions	Drawings are based on site visits that have occurred as of 3/8 and have not included invasive surveys to validate all existing conditions. Additional invasive surveys will be required to be performed by the contractor who will provide a report of findings prior to starting any work.
	Asset management tagging.	New equipment is being tagged using the lastest version of the asset management tags as discussed with CDA/CCA as of 12/19/22. This version is still being reviewed by the CDA and may change at a later date. Further coordination with CDA will be required after the 60% submission
	Equipment pads	New equipment is to be provided with equipment pads per CDA specifications. Pads not yet shown on drawings and to be coordinated after the 60% submission.
	Utility routing	New and relocated utility mains (duct work, piping, and conduits) are shown but not yet coordinated with architectural, structural, or BHS elements. It is anticipated that some of the routings shown may change to resolve clashes. Coordination to take place after the 60% submission.
	Asbestos discovery and remediaton	Asbestos discovery and remediation are not anticipated as part of the scope of this project. It is assumed that the CDA will perform a study and remediation prior to the start of work for this project.
	FA Device coordination	New FA devices are shown within the areas that are in scope for the project but not yet coordianted with other trades. These will be further coordinated after the 60% submission. Additional devices in adjacent areas not in the scope of the project are not provided but may be needed to address potential code deficiencies. Further coordination with the CDA and Fire Marshall is required to confirm direction for these spaces.

FIRE ALARM

F	MANUAL PULL STATION
P	FIREMAN'S PHONE
H	HEAT DETECTOR
DD P-S	DUCT SMOKE DETECTOR, SUPPLY AIR DUCT
DD P-R	DUCT SMOKE DETECTOR, RETURN AIR DUCT
A	AUDIBLE GENERAL ALARM DEVICE
	HORN
	HORN/STROBE WITH VISUAL ALARM DEVICE
T	VOICE COMMUNICATION TELEPHONE
	VISUAL ALARM DEVICE
RA	REMOTE ANNUNCIATOR LAMP FOR SELECTED DEVICES
RTS	REMOTE ALARM AND TEST STATION
H	HEAT DETECTOR (135 DEG FIXED TEMP/RATE-OF-RISE). IF DIFFERENT TEMPERATURE THEN AS NOTED
SD	SMOKE DETECTOR
SD E	SMOKE DETECTOR - ELEVATOR RECALL
SS	SINGLE STATION SMOKE DETECTOR
WF	SPRINKLER WATERFLOW INDICATOR
PS	SPRINKLER PRESSURE SWITCH
H	MAGNETIC/ELECTRONIC DOOR HOLD OPEN DEVICE
VSS	SPRINKLER VALVE SUPERVISORY (TAMPER) SWITCH
TB	TROUBLE BELL W/TEST AND SILENCE SWITCH W/LAMP
FAA	FIRE ALARM ANNUNCIATOR PANEL
SSA	STATUS SUPERVISION ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
VCP	VOICE COMMUNICATION CONTROL PANEL
ELEV	FIREMAN'S ELEVATOR STATUS PANEL
FPC	FIRE PUMP CONTROLLER
DGP	DATA GATHERING PANEL (TRANSPONDER) FOR MULTIPLEX SIGNAL GATHERING AND TRANSMISSION
	CARBON MONOXIDE DETECTOR
FSR	FIRE SHUTDOWN RELAY
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER TO REMOTE ALARM RECEIVING STATIONS
FTP	FIRE ALARM TRANSPONDER PANEL
VTP	VOICE COMM. TRANSPONDER PANEL
FMM	FIRE ALARM MONITOR MODULE
FSR	FIRE SHUTDOWN RELAY
ESR	ELEVATOR SHUTDOWN RELAY

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
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CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
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PROJECT NAME
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PRIME CONSULTANT
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MILHOUSE

NOTES

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NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

FIRE ALARM GENERAL NOTES

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER **FA0.02** VOLUME: **2**

3/20/2023 12:50:22 AM

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KEYED NOTES (#)

1 EXISTING FIRE ALARM CONTROL PANEL, CONTRACTOR SHALL VERIFY LOCATION IN FIELD. ALL PROPOSED FIRE ALARM DEVICES ON LOWER LEVEL ABOVE OR UPPER LEVEL BELOW SHALL BE ROUTED BACK TO PANELS AS SHOWN. SEE OTHER LEVELS FOR ADDITIONAL DETAILS. (TYPICAL)

2 EXISTING MAIN FIRE ALARM ROOM LOCATED IN BASEMENT OF HEAD HOUSE, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, ZONING, SEQUENCE OF OPERATIONS, AND ALL OTHER FUNCTIONS OF THE EXISTING SYSTEM IN FIELD. (TYPICAL)

3 EXISTING AREA WITHIN HATCH AREA IS OUT OF THE SCOPE OF THE FIRE ALARM SYSTEM MODIFICATIONS, CONTRACTOR MAY ROUTE OR DEMOLISH CONDUITS AND PERFORM OTHER WORK TO ENABLE THE OPERATION OF THE FIRE ALARM SYSTEM, NOTIFICATION APPLIANCES, DETECTION APPLIANCE, AND OTHER ASSOCIATED APPURTENANCES ARE TO REMAIN. (TYPICAL)

GENERAL NOTES

1. FIRE ALARM SYSTEM SHOWN ON PLANS IS AN ADDRESSABLE TYPE SYSTEM. THE COMPLETE SYSTEM SHALL BE DESIGNED BY A NICET LEVEL IV DESIGNER OR LICENSED PROFESSIONAL FIRE PROTECTION ENGINEER, WHO WILL PROVIDE DOCUMENTATION THAT THE FIRE ALARM DESIGN HAS BEEN REVIEWED AND IS IN COMPLIANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S REQUIREMENTS.
2. EXISTING FIRE ALARM CONTROL PANEL (FACP) EQUIPMENT PANELS SHALL BE UTILIZED AS PART OF THIS CONTRACT AND SHALL BE FOR THE NEW ALARM INITIATING DEVICES, ALARM NOTIFICATION DEVICES AND ASSOCIATED AIR HANDLING UNITS. PROVIDE NEW CONDUIT TO THE EXTENT REQUIRED. CONTRACTOR SHALL PROVIDE NEW CONDUCTORS WHERE REQUIRED TO THE NEAREST DEVICE OR BACK TO FDSC, SPLICING OF FA CONDUCTORS IS NOT PERMITTED.
3. FURNISH AND INSTALL ALL ANCILLIARY COMPONENTS, HARDWARE, POWER CONNECTIONS, WIRING AND NOTIFICATION APPLIANCE CIRCUIT DEVICES AS REQUIRED FOR A COMPLETE AND OPERATING FIRE ALARM SYSTEM.
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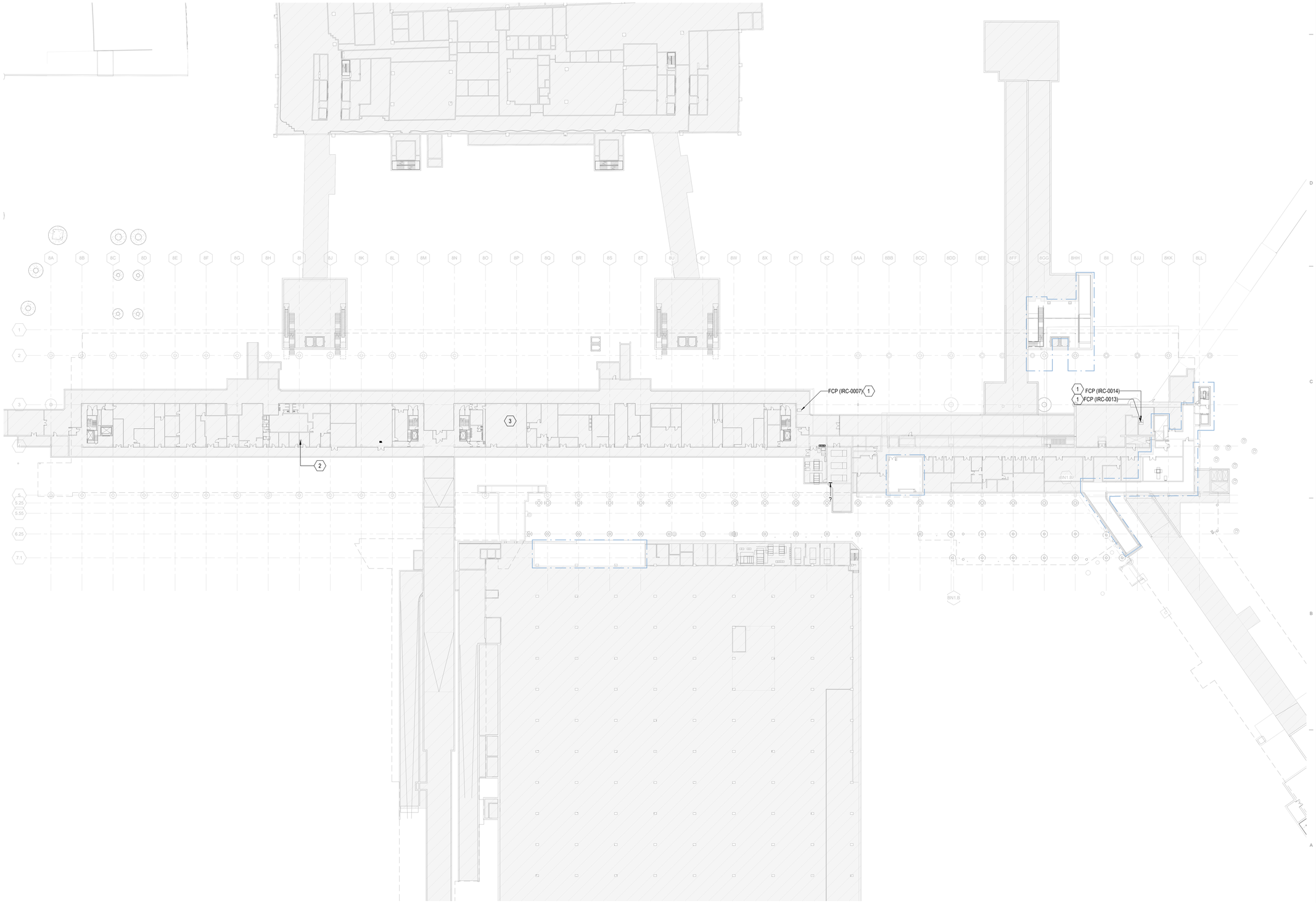
5. DETECTOR INSTALLATION COORDINATE DETECTORS INSTALLATION WITH OTHER NEW EQUIPMENT. RELOCATE DETECTORS AS REQUIRED TO CLEAR THESE OBSTRUCTIONS. ALL DETECTORS SHALL BE READILY ACCESSIBLE FOR ROUTINE MAINTENANCE AND TESTING.
6. THE PROPOSED FIRE ALARM WIRING SYSTEMS SHALL BE RUN IN NO MORE THAN 12-#14 IN A 3/4"C. THE FIRE DETECTION SYSTEM SHALL BE A COMPLETELY SEPARATE AND INDEPENDENT WIRING SYSTEM FROM ALL OTHER ELECTRICAL SYSTEMS. ALL AC WIRING SHALL BE SEPARATE FROM ALL DC WIRING.
7. PROVIDE ALL NEW DEVICE AND EQUIPMENT COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM, ALL DEVICES SHALL TIE INTO THE EXISTING FIRE ALARM SYSTEM.
8. THE EQUIPMENT LOCATIONS SHOWN ARE SCHEMATIC. THE EXACT LOCATION OF ALL FIRE DETECTION SYSTEM EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND PER NFPA 72 AND ADA REQUIREMENTS AND SHALL BE ACCESSIBLE FOR MAINTENANCE AND TESTING.



1A OVERALL FIRE ALARM PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
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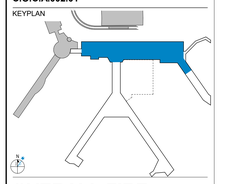

OVERALL FIRE ALARM PLAN - BASEMENT LEVEL

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

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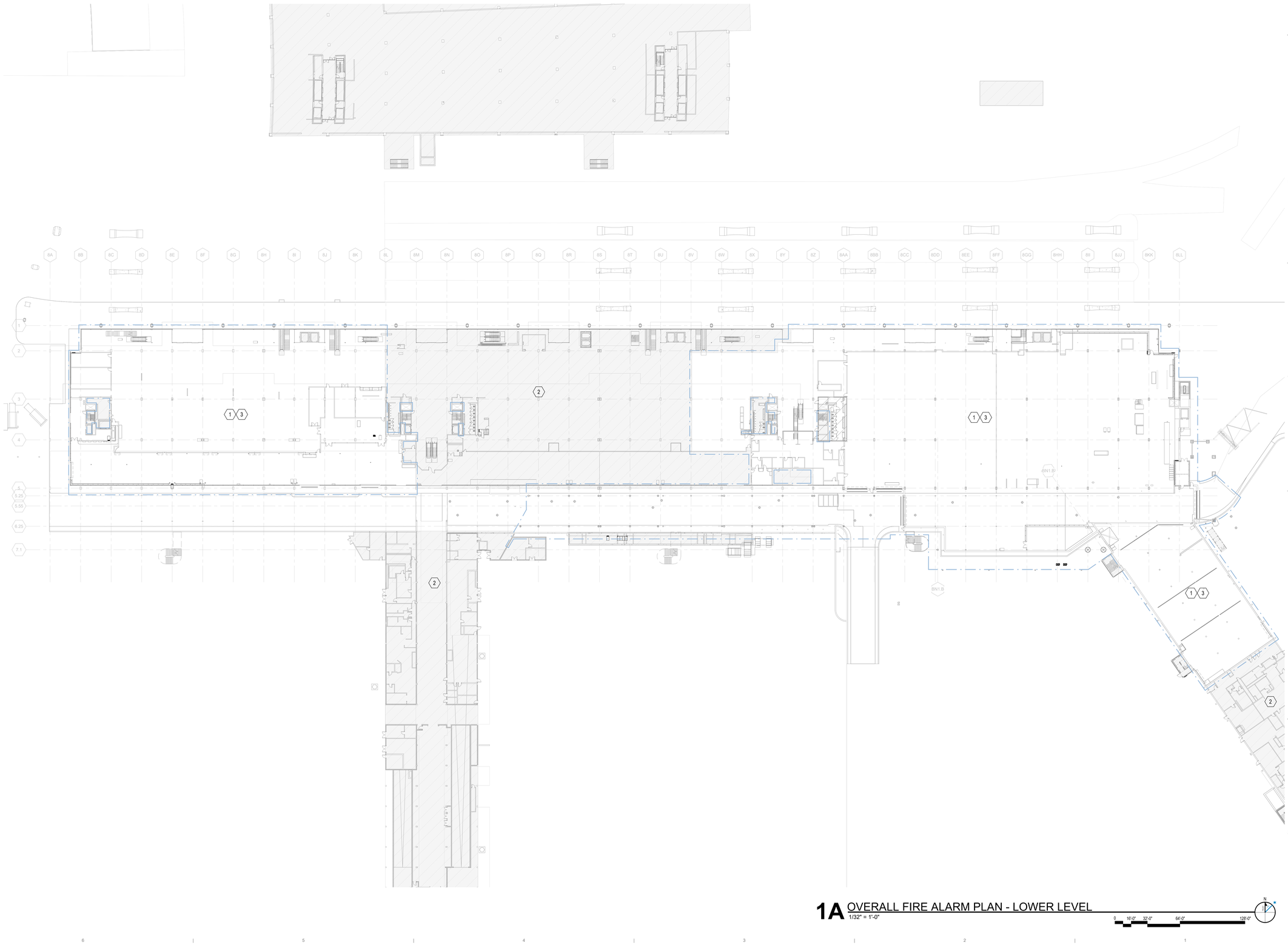

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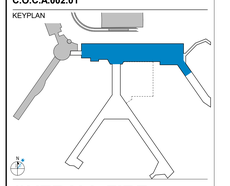

OVERALL FIRE ALARM PLAN - LOWER LEVEL

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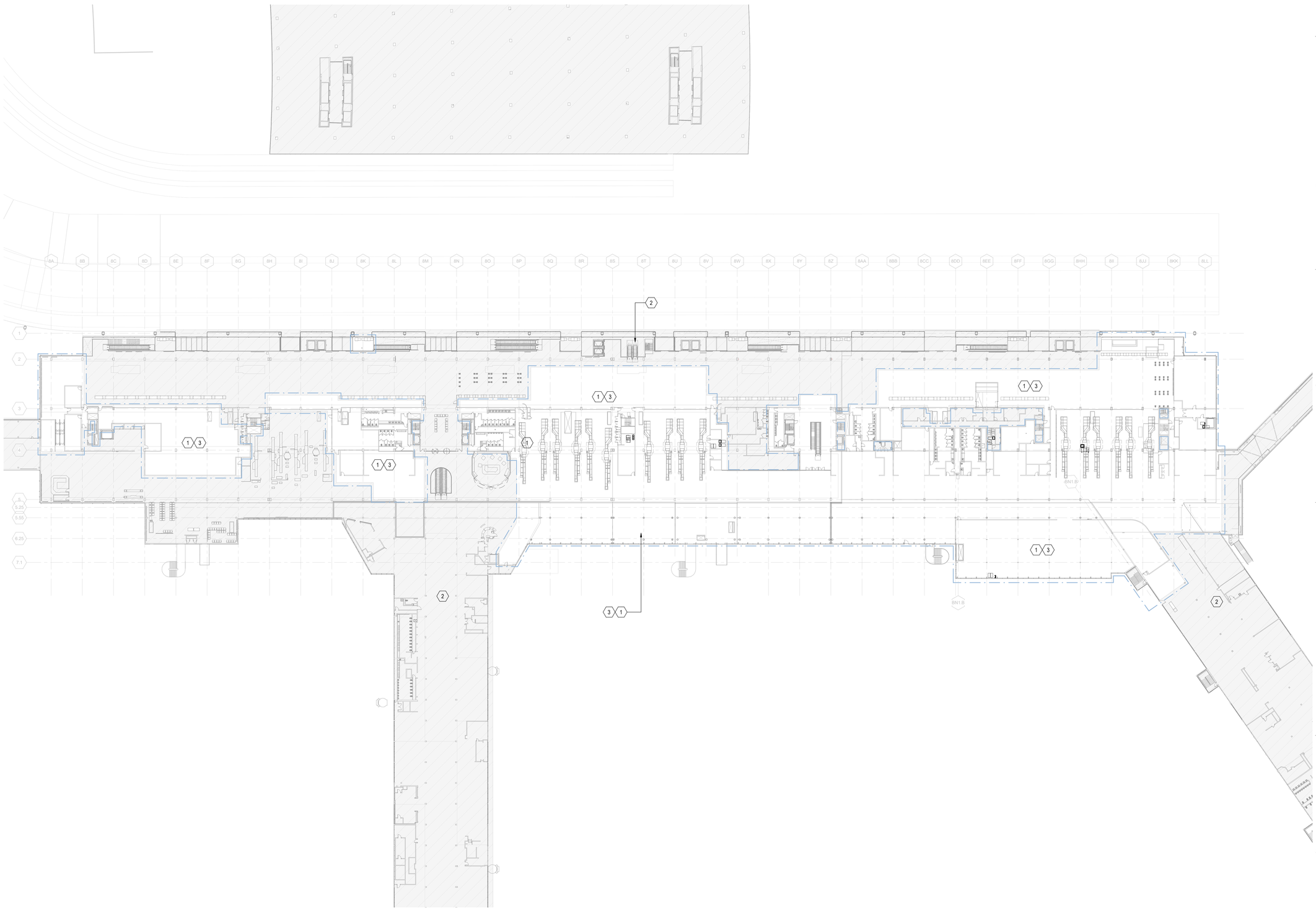

1A OVERALL FIRE ALARM PLAN - UPPER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
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NOTES

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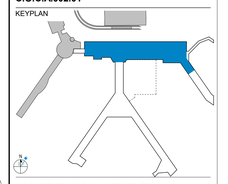
NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



OVERALL FIRE ALARM PLAN - UPPER LEVEL

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA1.1.03

3/20/2023 12:52:08 AM

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KEYED NOTES #

1 PROVIDE NEW FIRE ALARM INITIATING AND NOTIFICATION DEVICES COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM FOR PROPOSED SPACES WITHIN HATCHING LIMITS. PROPOSED FIRE ALARM DEVICES TO BE INTEGRATED INTO THE BUILDINGS FIRE ALARM SYSTEM THROUGH THE NEAREST FACP USING 3/4"C. WITH 2#14 TWISTED SHIELDED PAIR. PROVIDE ALL REQUIRED WIRING, TERMINATIONS, RACEWAYS, SUPPORTS AND ASSOCIATED APPURTENANCES. INSTALL ALL ANCILLARY HARDWARE, POWER CONNECTIONS, AND NOTIFICATION CIRCUIT DEVICES AS REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM. COORDINATE WITH CDA FOR EQUIPMENT INTEGRATING INTO THE EXISTING FIRE ALARM SYSTEM.

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GENERAL NOTES

1. FIRE ALARM SYSTEM SHOWN ON PLANS IS AN ADDRESSABLE TYPE SYSTEM. THE COMPLETE SYSTEM SHALL BE DESIGNED BY A NICET LEVEL IV DESIGNER OR LICENSED PROFESSIONAL FIRE PROTECTION ENGINEER, WHO WILL PROVIDE DOCUMENTATION THAT THE FIRE ALARM DESIGN HAS BEEN REVIEWED AND IS IN COMPLIANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S REQUIREMENTS.
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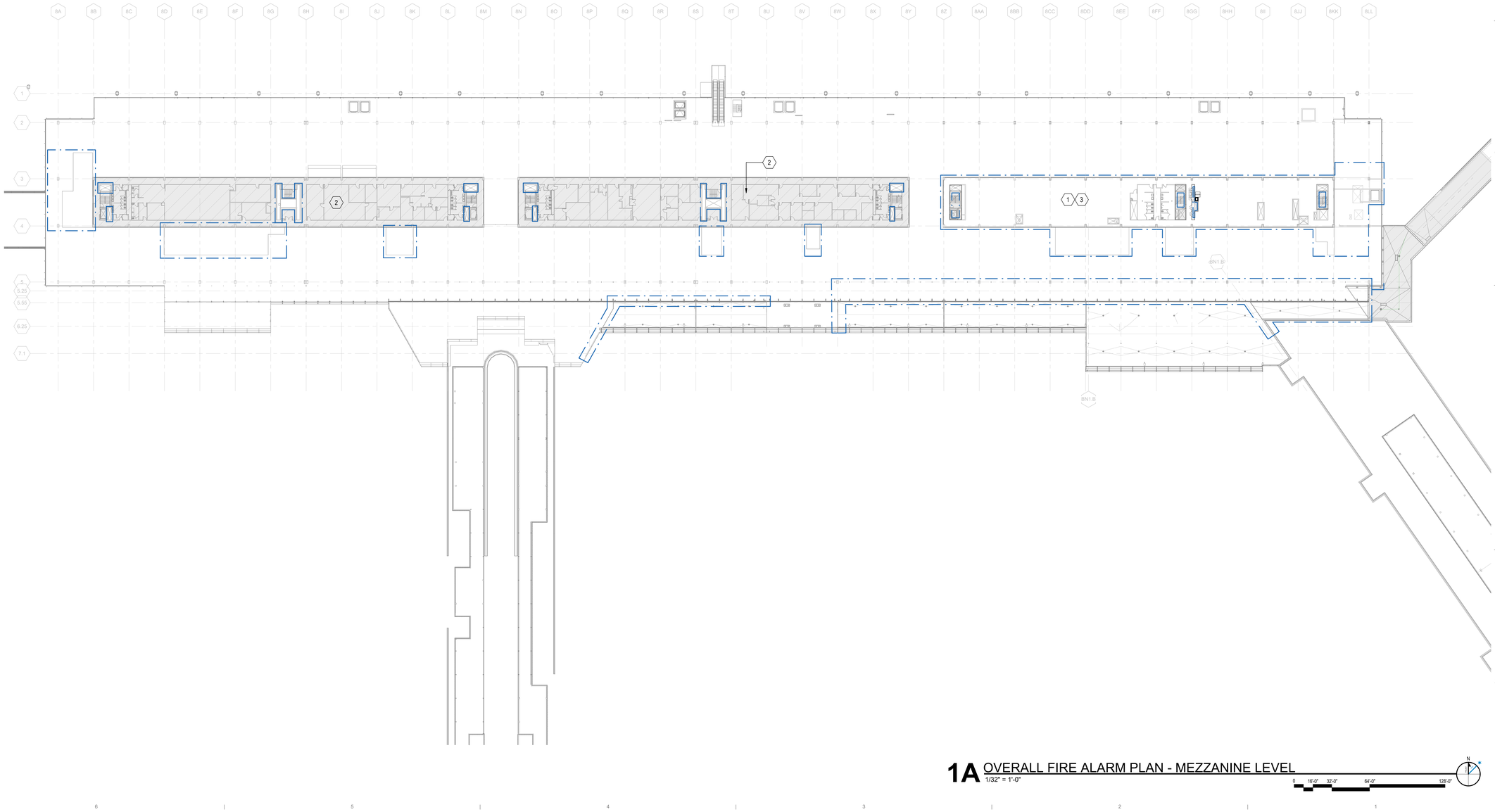

1A OVERALL FIRE ALARM PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

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DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

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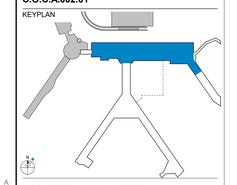

OVERALL FIRE ALARM PLAN - MEZZANINE LEVEL

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SHEET NUMBER VOLUME: **2**
FA1.1.04

3/20/2023 12:52:47 AM

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KEYED NOTES #

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4 EXISTING FIRE ALARM CONTROL PANEL, CONTRACTOR SHALL VERIFY LOCATION IN FIELD. ALL PROPOSED FIRE ALARM DEVICES ON LOWER LEVEL ABOVE OR UPPER LEVEL BELOW SHALL BE ROUTED BACK TO PANELS AS SHOWN. SEE OTHER LEVELS FOR ADDITIONAL DETAILS. (TYPICAL)

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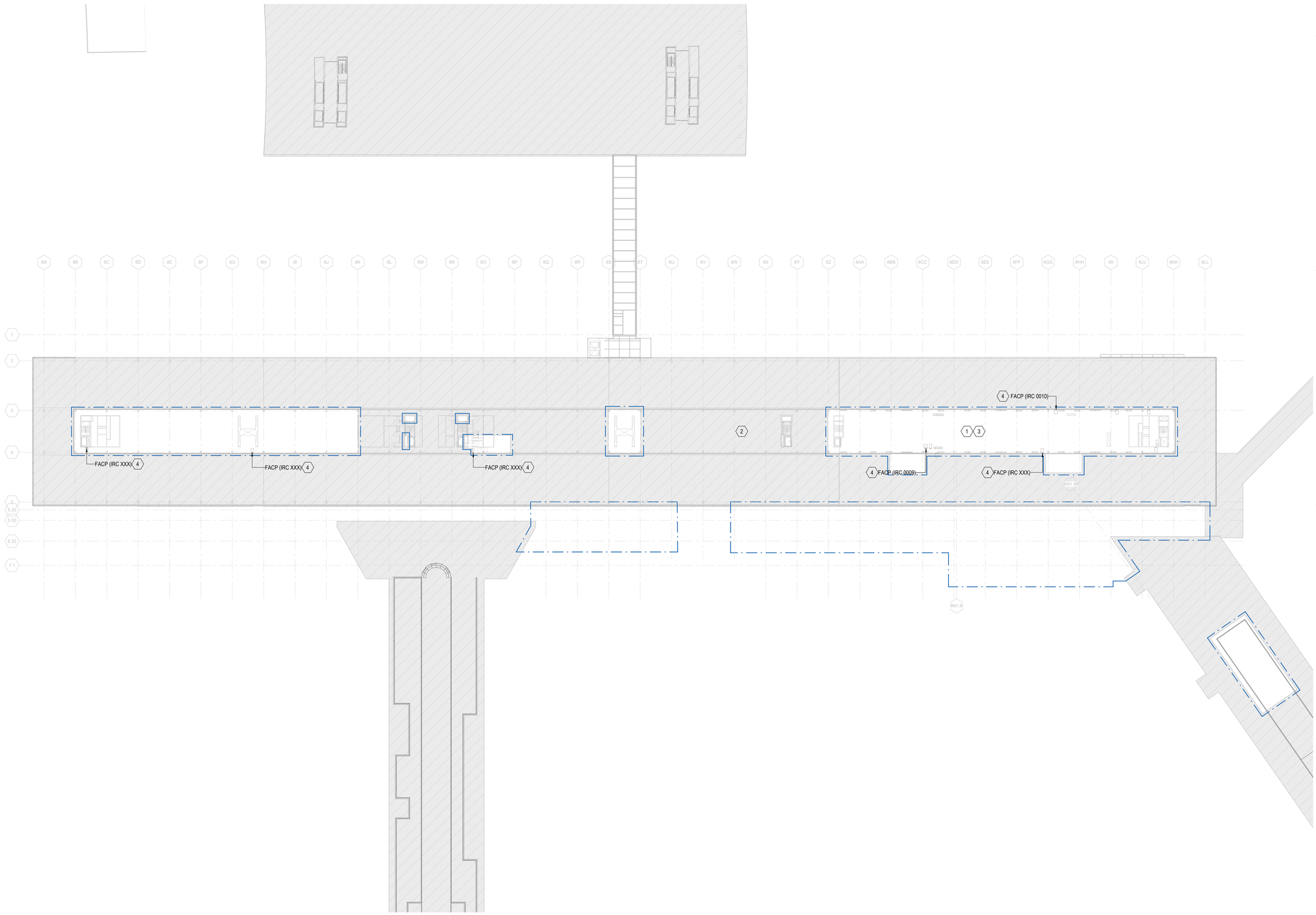

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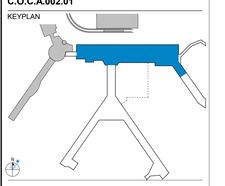
KEYPLAN



OVERALL FIRE ALARM PLAN - PENTHOUSE

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SHEET NUMBER VOLUME: **2**

FA1.1.05

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KEYED NOTES #

1 EXISTING MAIN FIRE ALARM ROOM LOCATED IN BASEMENT OF HEAD HOUSE. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, ZONING, SEQUENCE OF OPERATIONS, AND ALL OTHER FUNCTIONS OF THE EXISTING SYSTEM IN FIELD. (TYPICAL)

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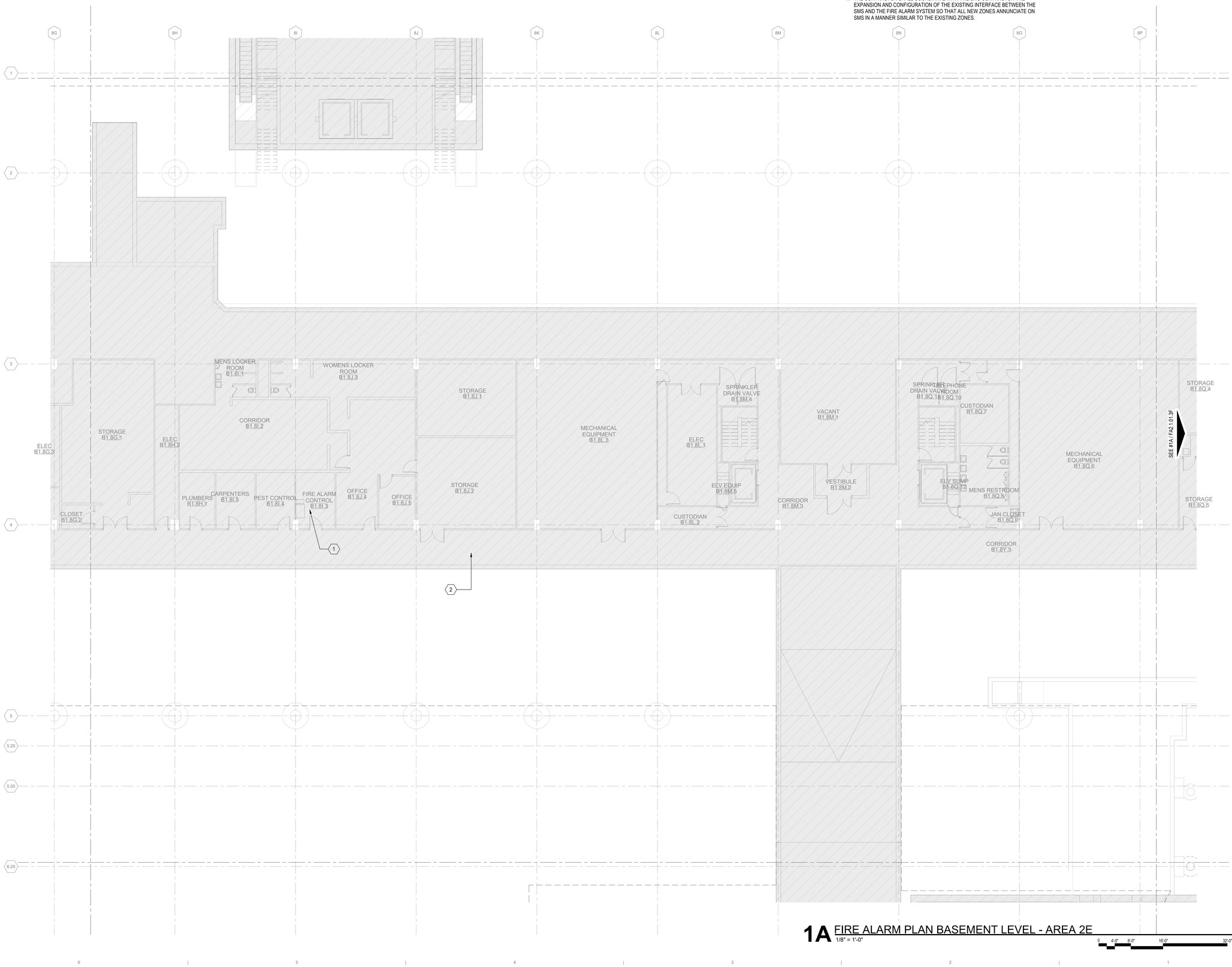

1A FIRE ALARM PLAN BASEMENT LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

3/22/2023 3:17:16 PM

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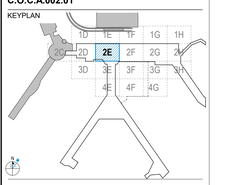
KEYPLAN



FIRE ALARM PLAN BASEMENT LEVEL - AREA 2E

DRAWN BY: **FK** CHECKED BY: **MC**

SHEET NUMBER VOLUME: **2**

FA2.1.01.2E

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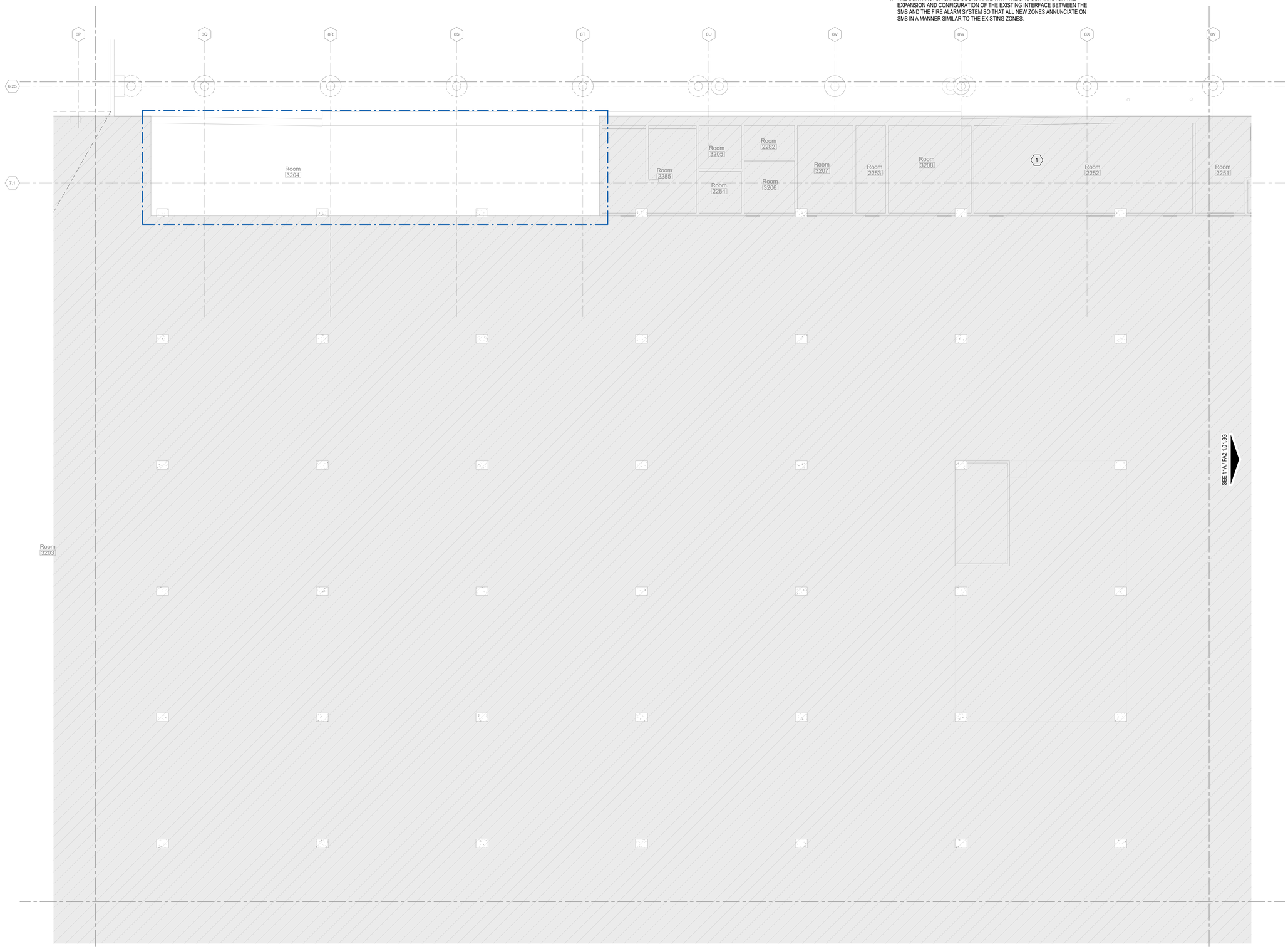

1A FIRE ALARM PLAN BASEMENT LEVEL - AREA 3F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 9:02:48 AM

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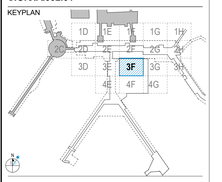
KEYPLAN



FIRE ALARM PLAN BASEMENT LEVEL - AREA 3F

DRAWN BY: **FK** CHECKED BY: **MC**

SHEET NUMBER VOLUME: **2**

FA2.1.01.3F

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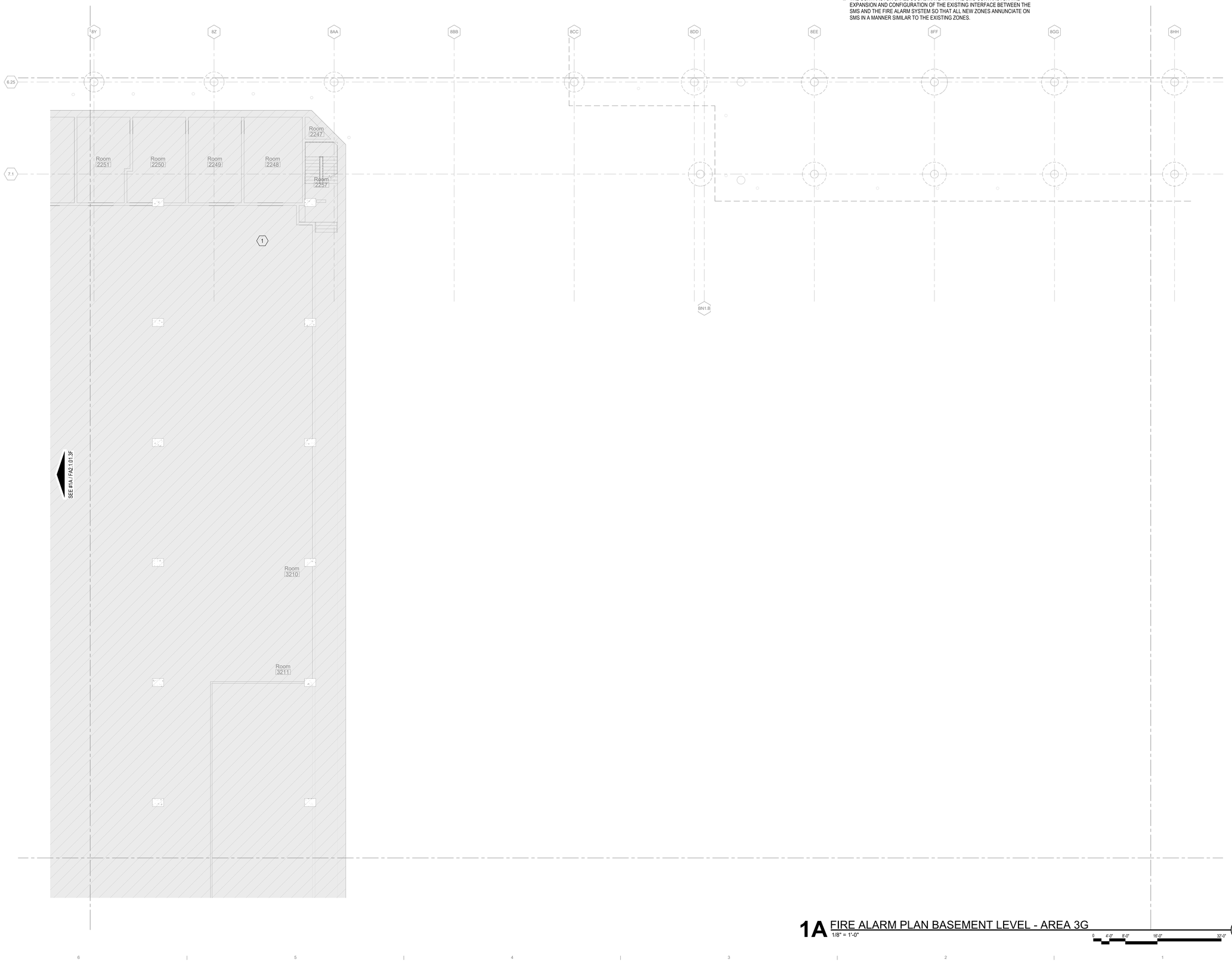

1A FIRE ALARM PLAN BASEMENT LEVEL - AREA 3G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

NOTES

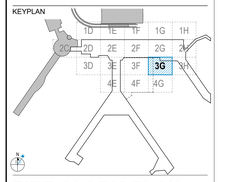
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



FIRE ALARM PLAN BASEMENT LEVEL - AREA 3G

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.01.3G

3/20/2023 9:03:15 AM

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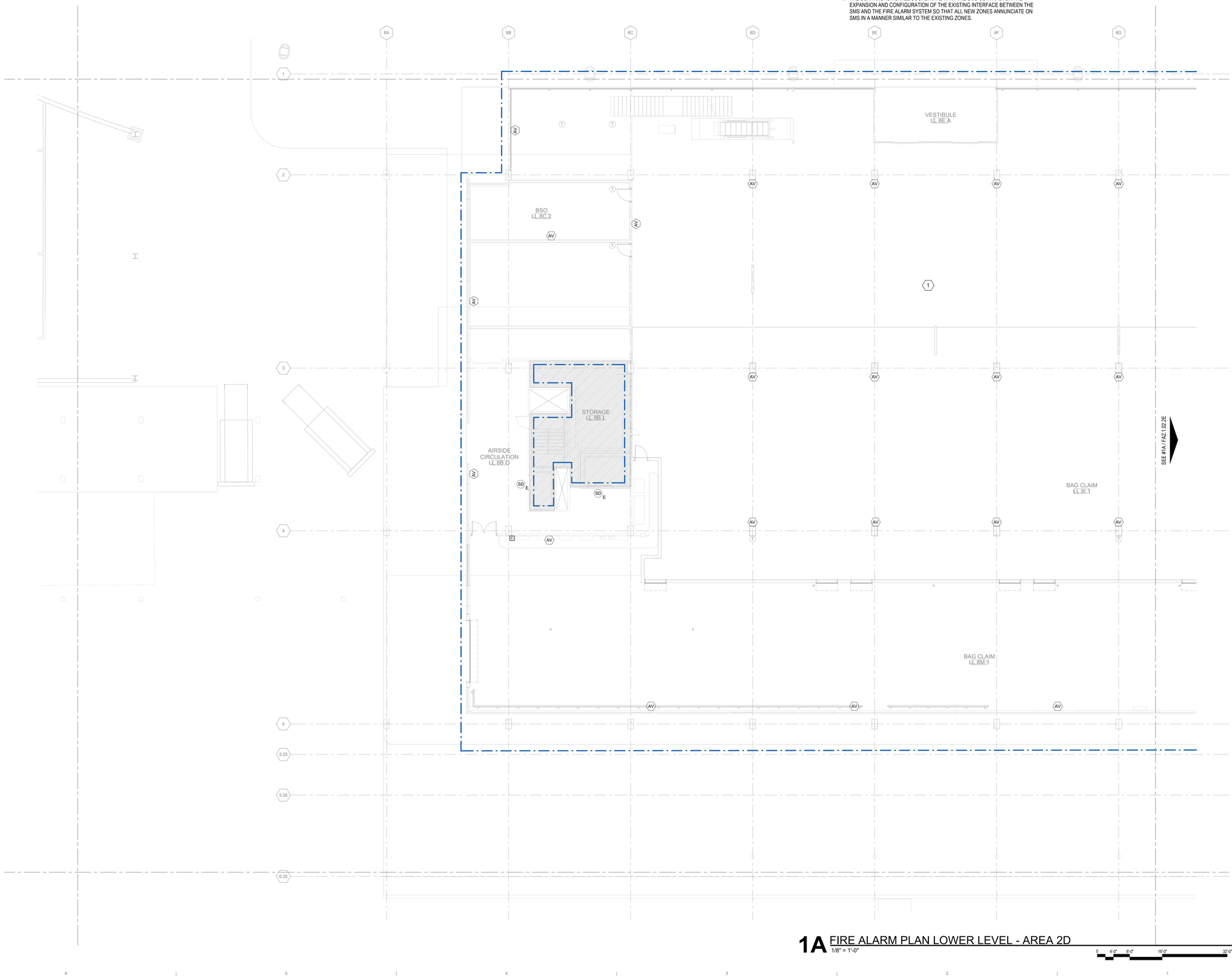

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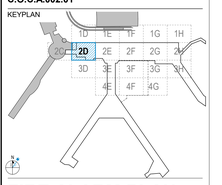
KEYPLAN



FIRE ALARM PLAN LOWER LEVEL - AREA 2D

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.02.2D

3/20/2023 9:03:47 AM

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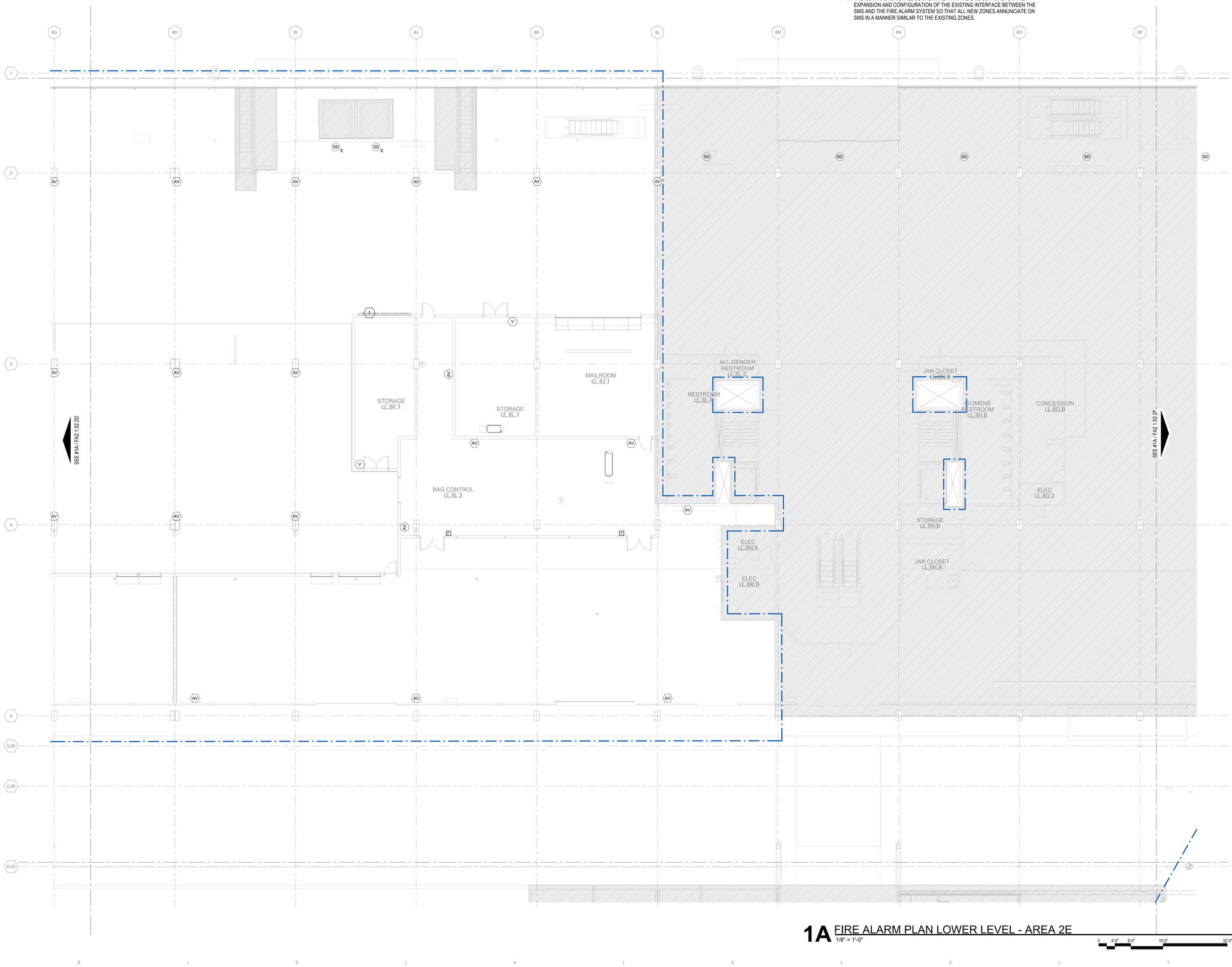

1A FIRE ALARM PLAN LOWER LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/20/2023 9:04:18 AM

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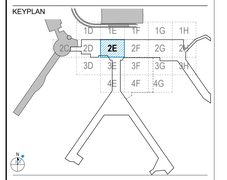
C.O.C.A.002.01

KEYPLAN



FIRE ALARM PLAN LOWER LEVEL - AREA 2E

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.02.2E

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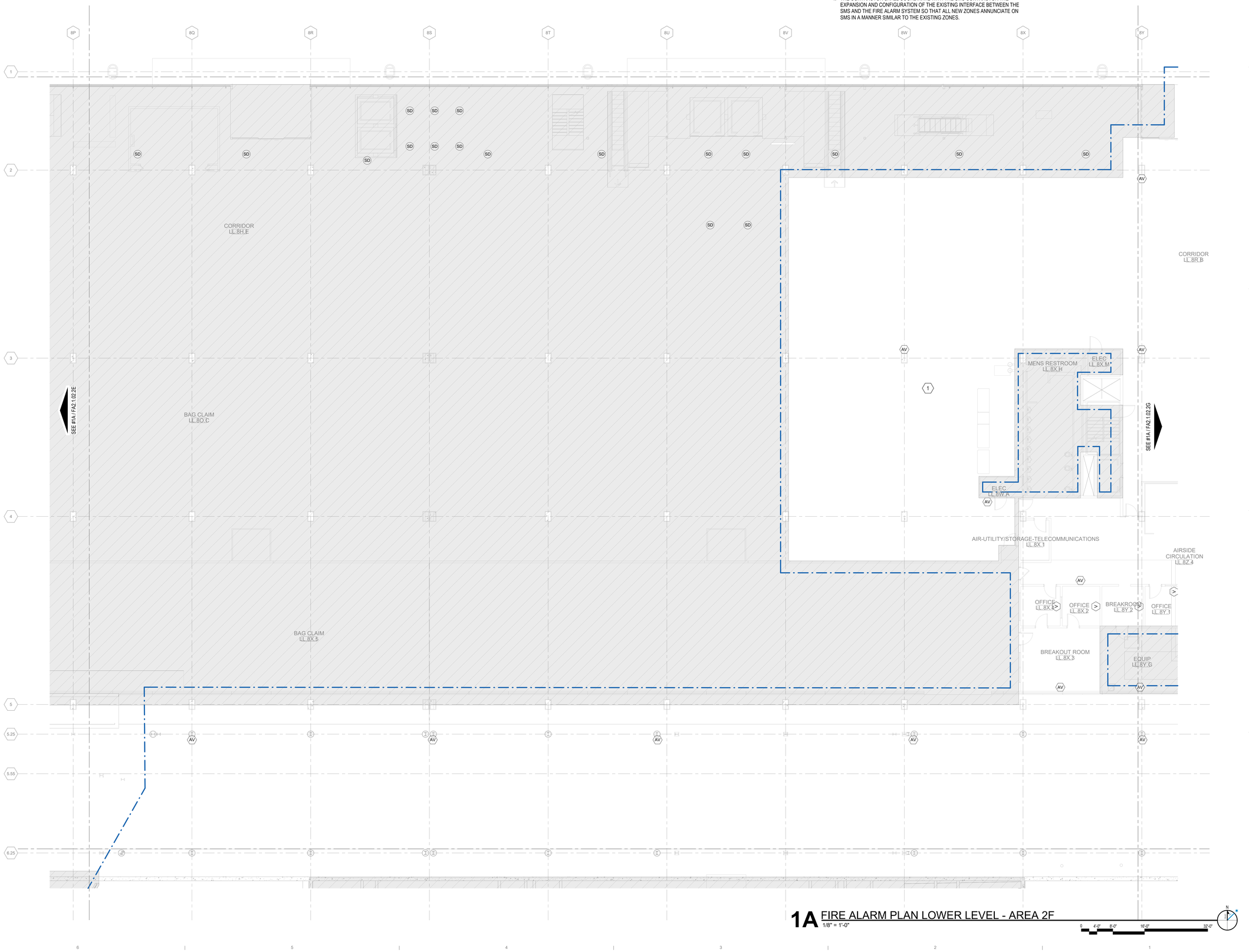

1A FIRE ALARM PLAN LOWER LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 3:17:40 PM

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CITY OF CHICAGO
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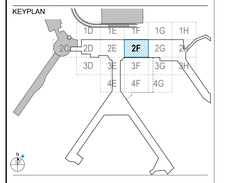
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



FIRE ALARM PLAN LOWER LEVEL - AREA 2F

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.02.2F

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VESTIBULE LL_8Y_D
HOLDROOM LL_8DD_2
VESTIBULE LL_8CC_A
CORRIDOR LL_8HH_1
CORRIDOR LL_8R_B
BREAKROOM LL_8AA_2
STORAGE LL_8AA_3
ELEC LL_8X_M
JAN CLOSET LL_8Z_5
WOMENS RESTROOM LL_8AA_7
ELEC LL_8AA_8
ELV EQUIP LL_8Z_2
TELEPHONE ROOM LL_8Z_3
BHS CONTROL ROOM LL_8AA_4
AIRSIDE CIRCULATION LL_8Z_4
BHS CONTROL ROOM LL_8AA_5
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BREAKROOM LL_8Y_2
OFFICE LL_8Y_1
OFFICE LL_8Z_1
EQUIP LL_8Y_G
UTILITIES LL_8AA_6
BAG SORTING LL_8LL_1
SEE #1A / FA2.1.02.2F
SEE #1A / FA2.1.02.2H
SEE #1A / FA2.1.02.3G
MECH ROOM
AHU 1-LL
AHU 2-LL
P-S
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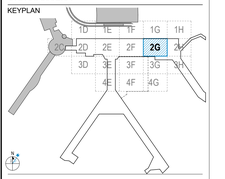

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DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER **FA2.1.02.2G** VOLUME: **2**

3/22/2023 3:18:04 PM

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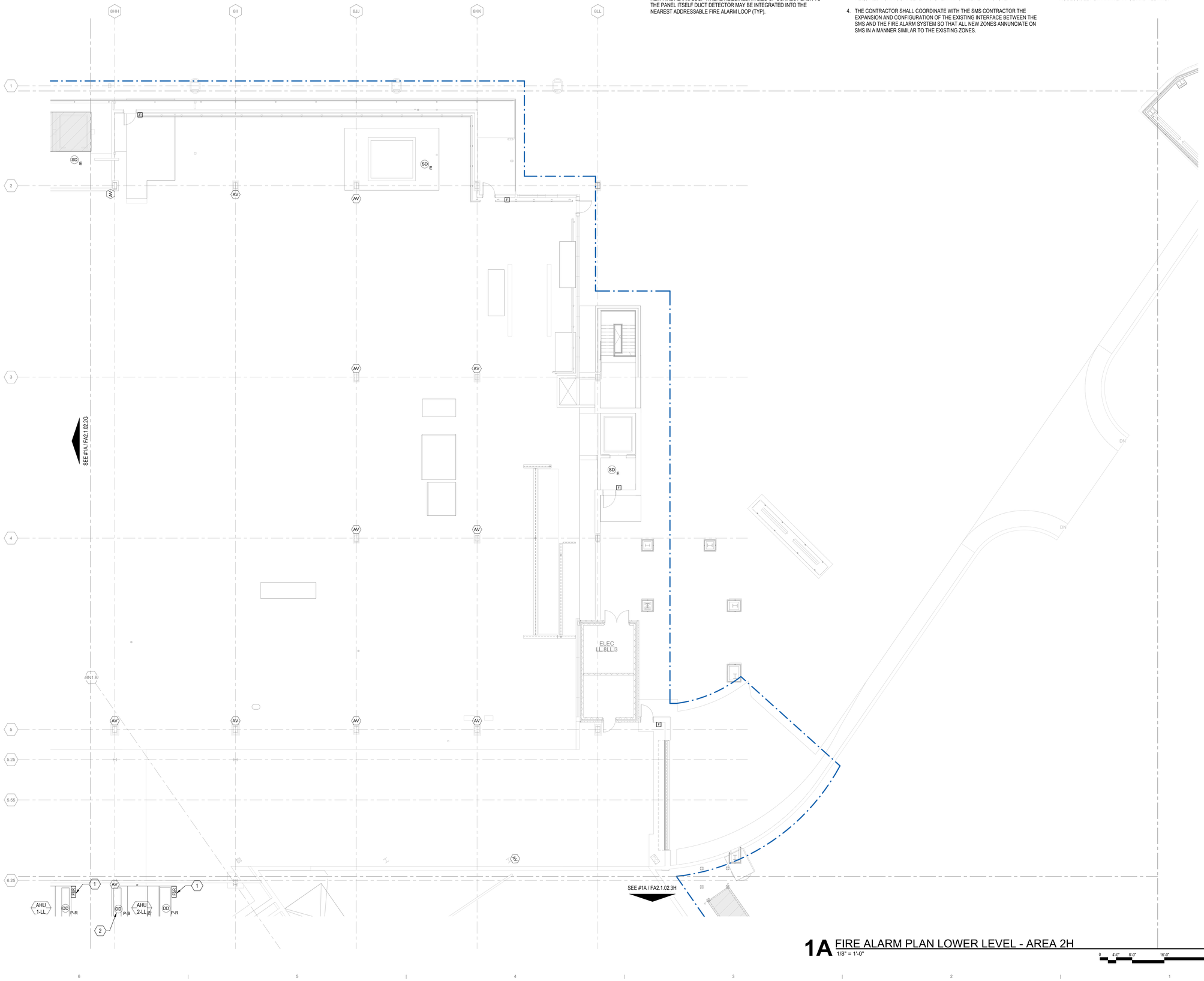

1A FIRE ALARM PLAN LOWER LEVEL - AREA 2H
1/8" = 1'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
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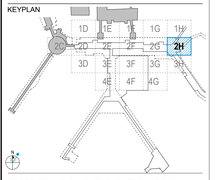

FIRE ALARM PLAN LOWER LEVEL - AREA 2H

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**
FA2.1.02.2H

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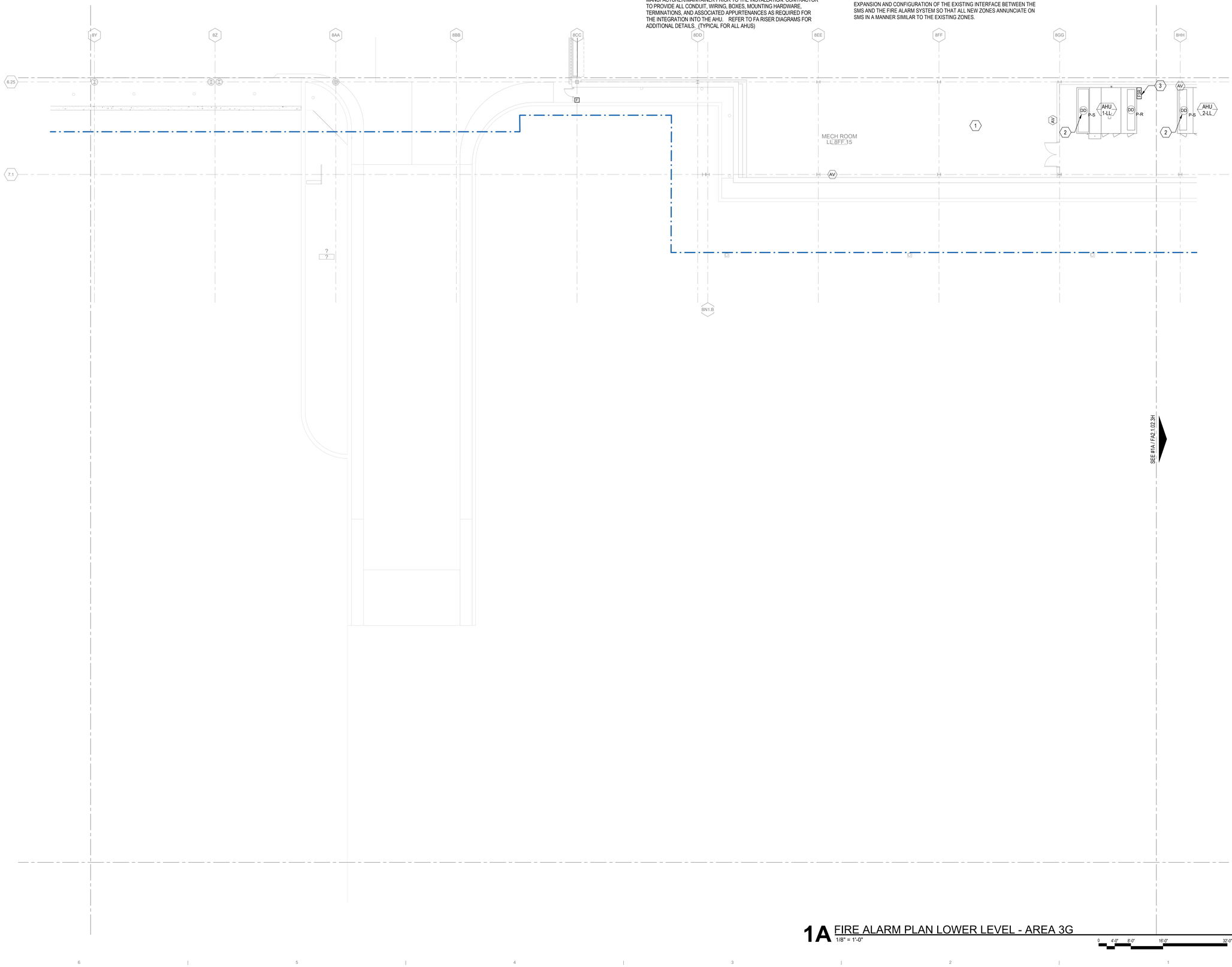

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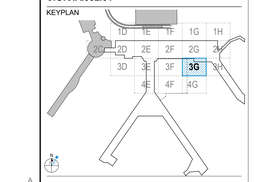

FIRE ALARM PLAN LOWER LEVEL - AREA 3G

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SHEET NUMBER VOLUME: **2**

FA2.1.02.3G

3/22/2023 3:18:28 PM

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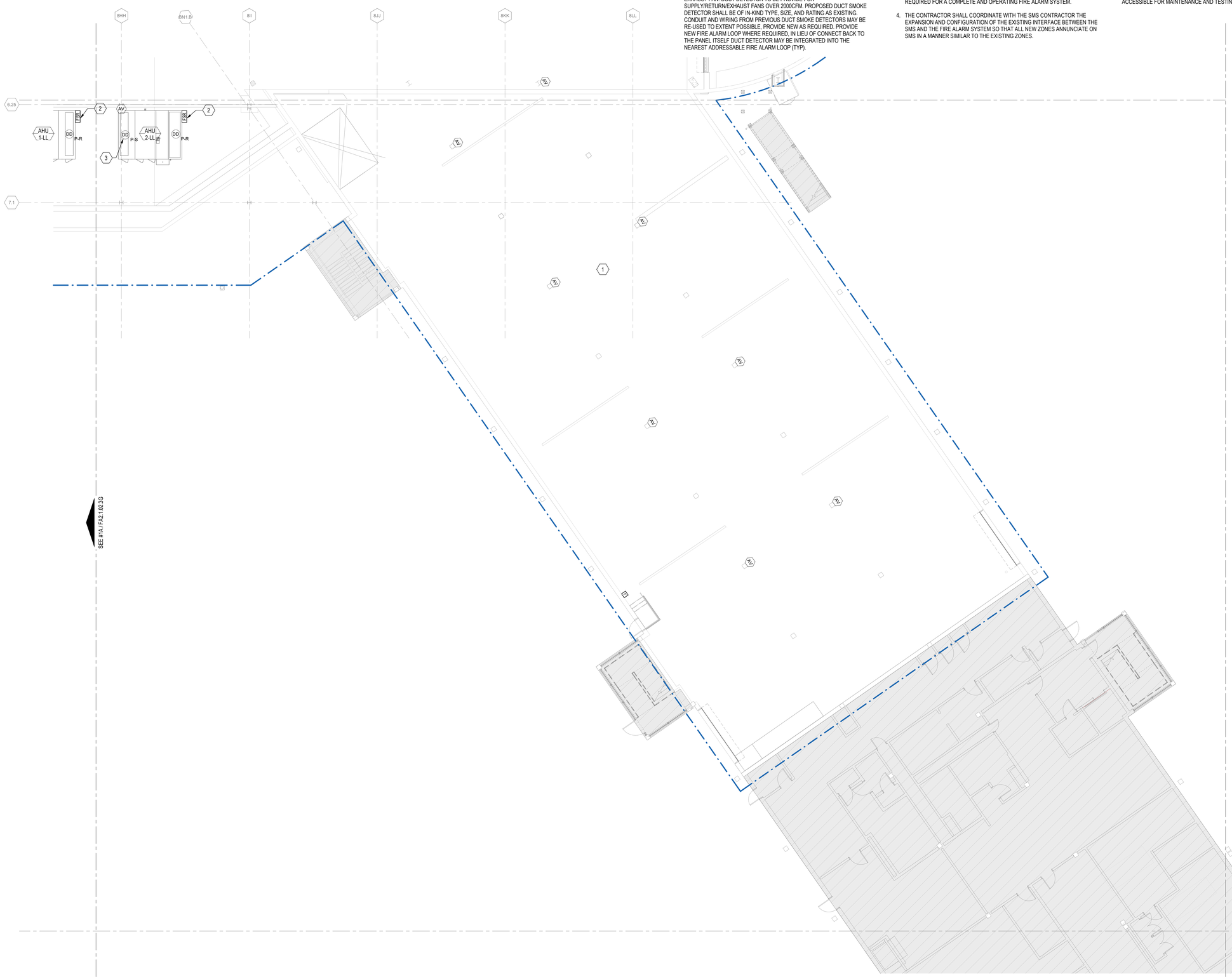

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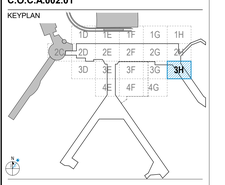

FIRE ALARM PLAN LOWER LEVEL - AREA 3H

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.02.3H

3/22/2023 3:18:50 PM

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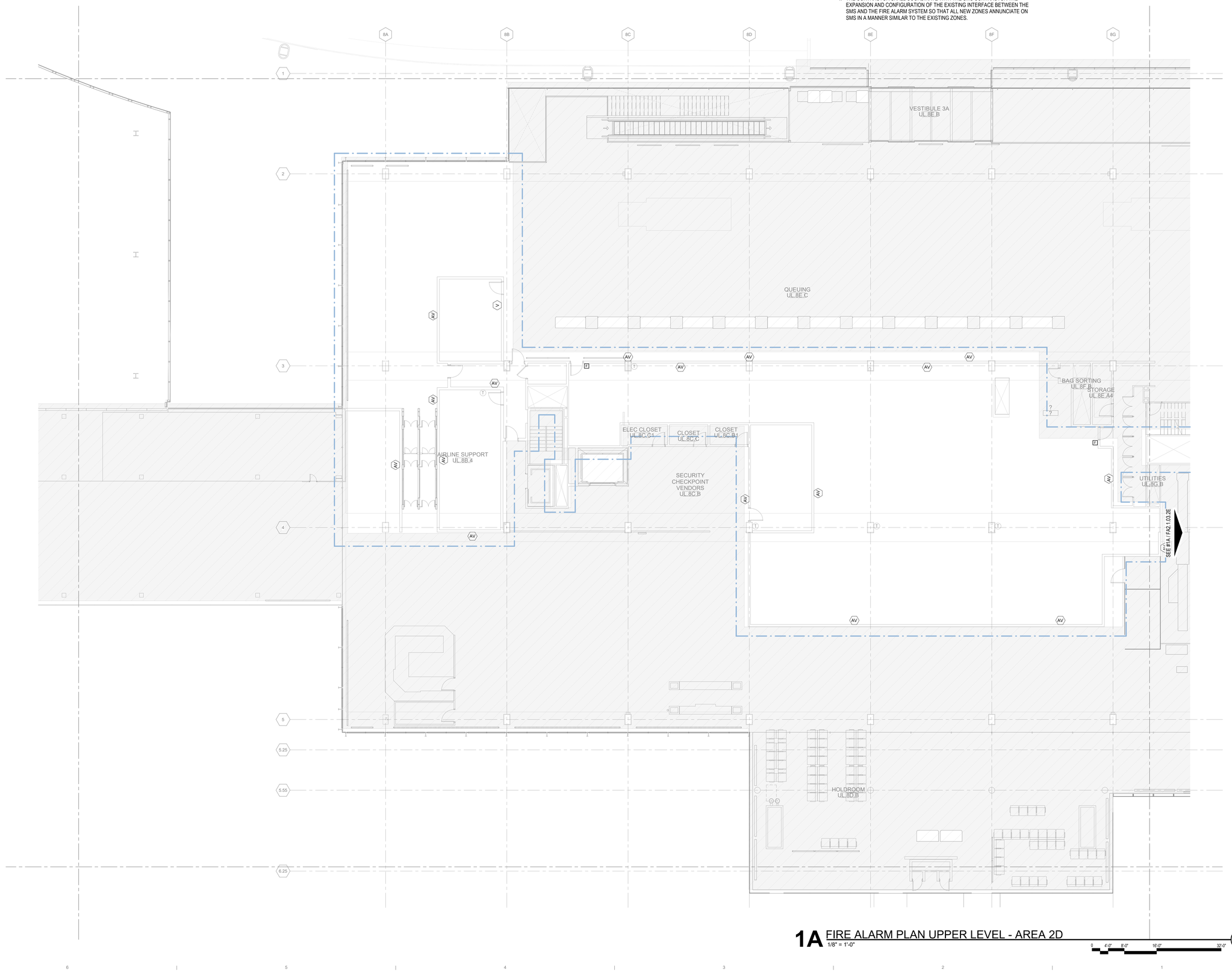

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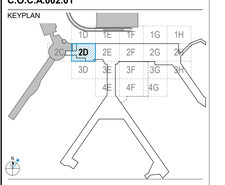

FIRE ALARM PLAN UPPER LEVEL - AREA 2D

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SHEET NUMBER VOLUME: **2**

FA2.1.03.2D

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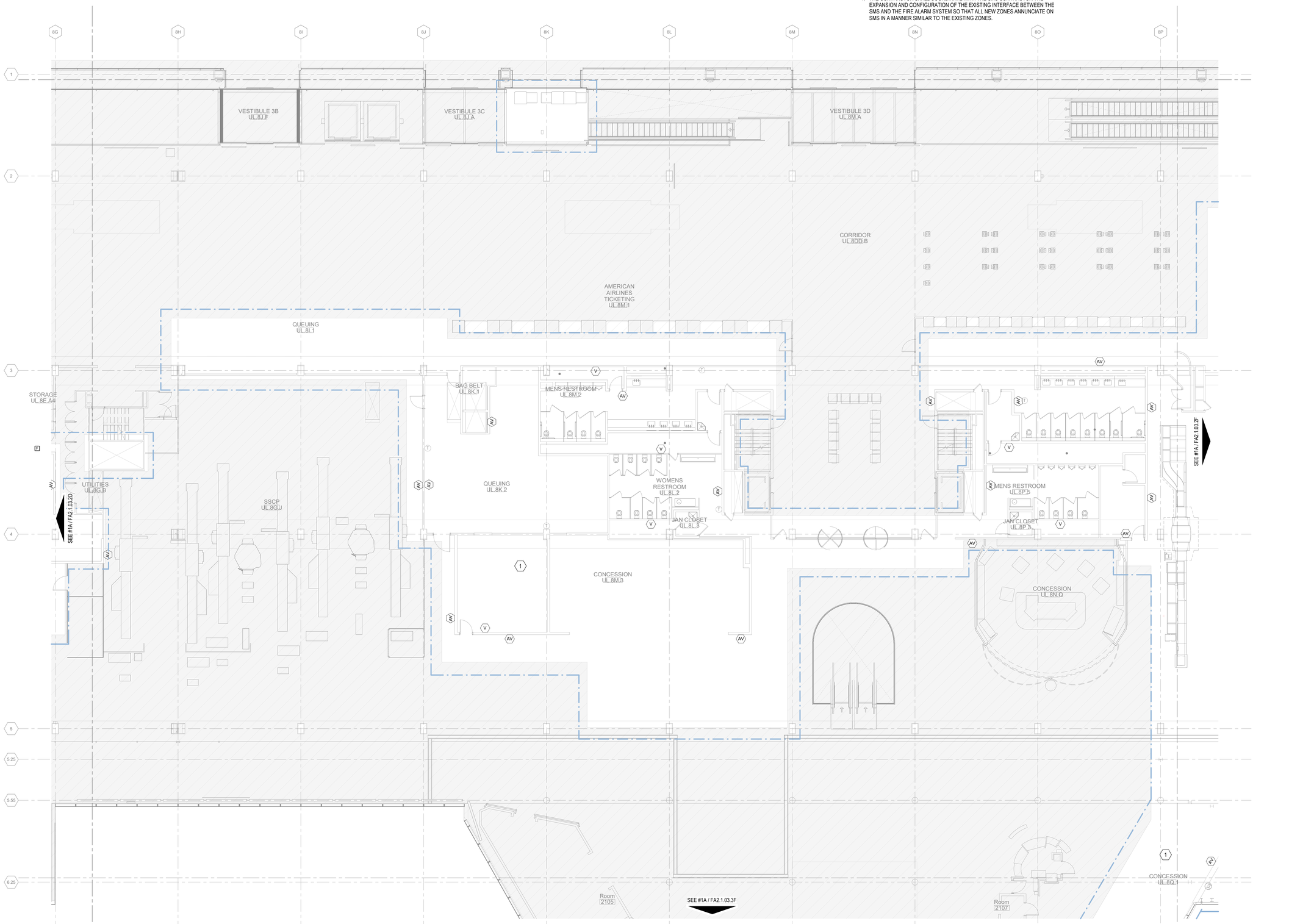

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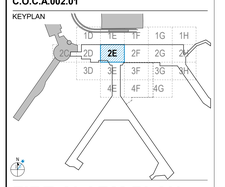

FIRE ALARM PLAN UPPER LEVEL - AREA 2E

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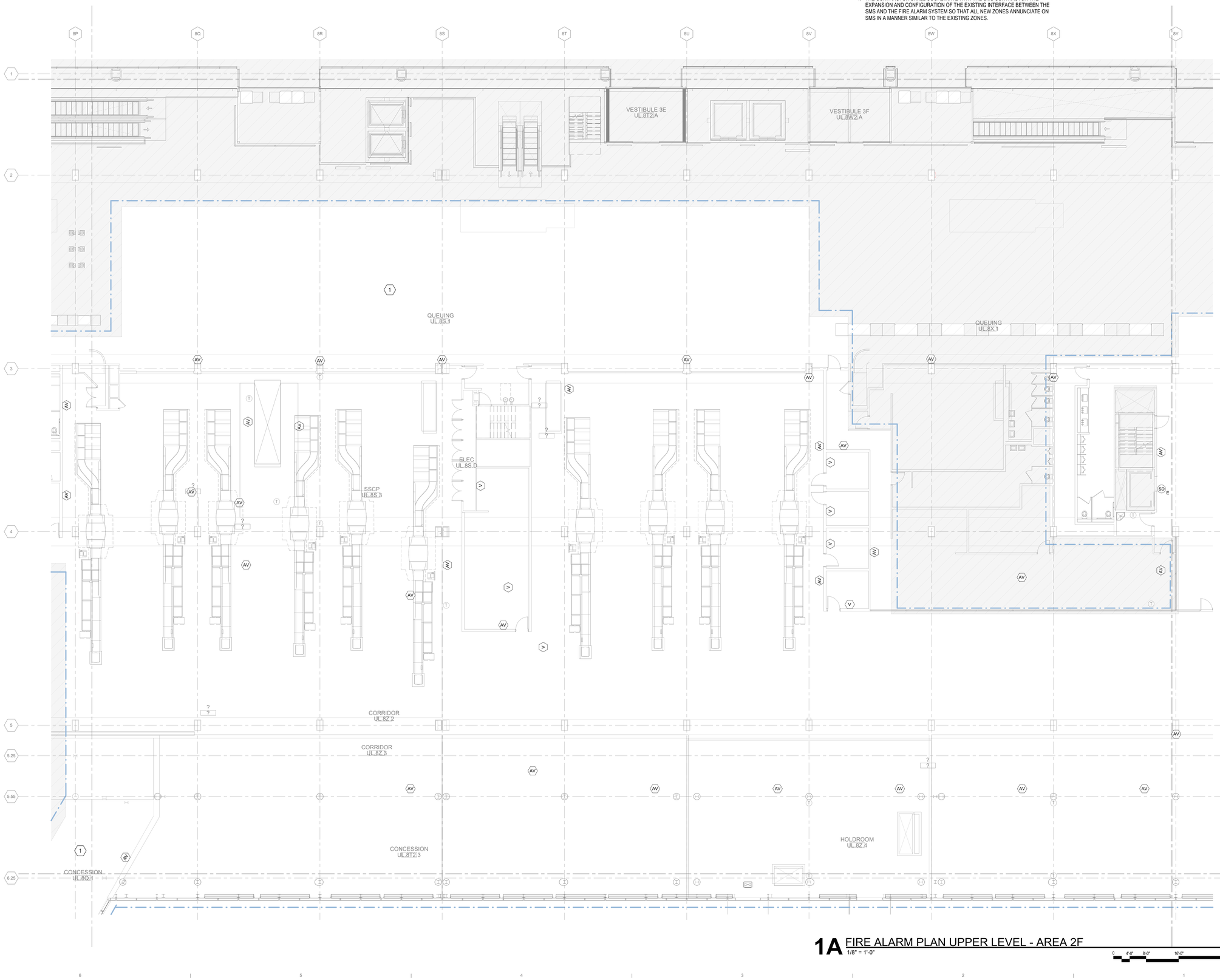

1A FIRE ALARM PLAN UPPER LEVEL - AREA 2F
1/8" = 1'-0"

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3/20/2023 9:06:27 AM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

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CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
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STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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PHASE: **DD**
REVISION: **--**

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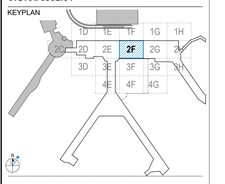
KEYPLAN



FIRE ALARM PLAN UPPER LEVEL - AREA 2F

DRAWN BY: **FK**
CHECKED BY: **MC**
SHEET NUMBER
VOLUME: **2**

FA2.1.03.2F

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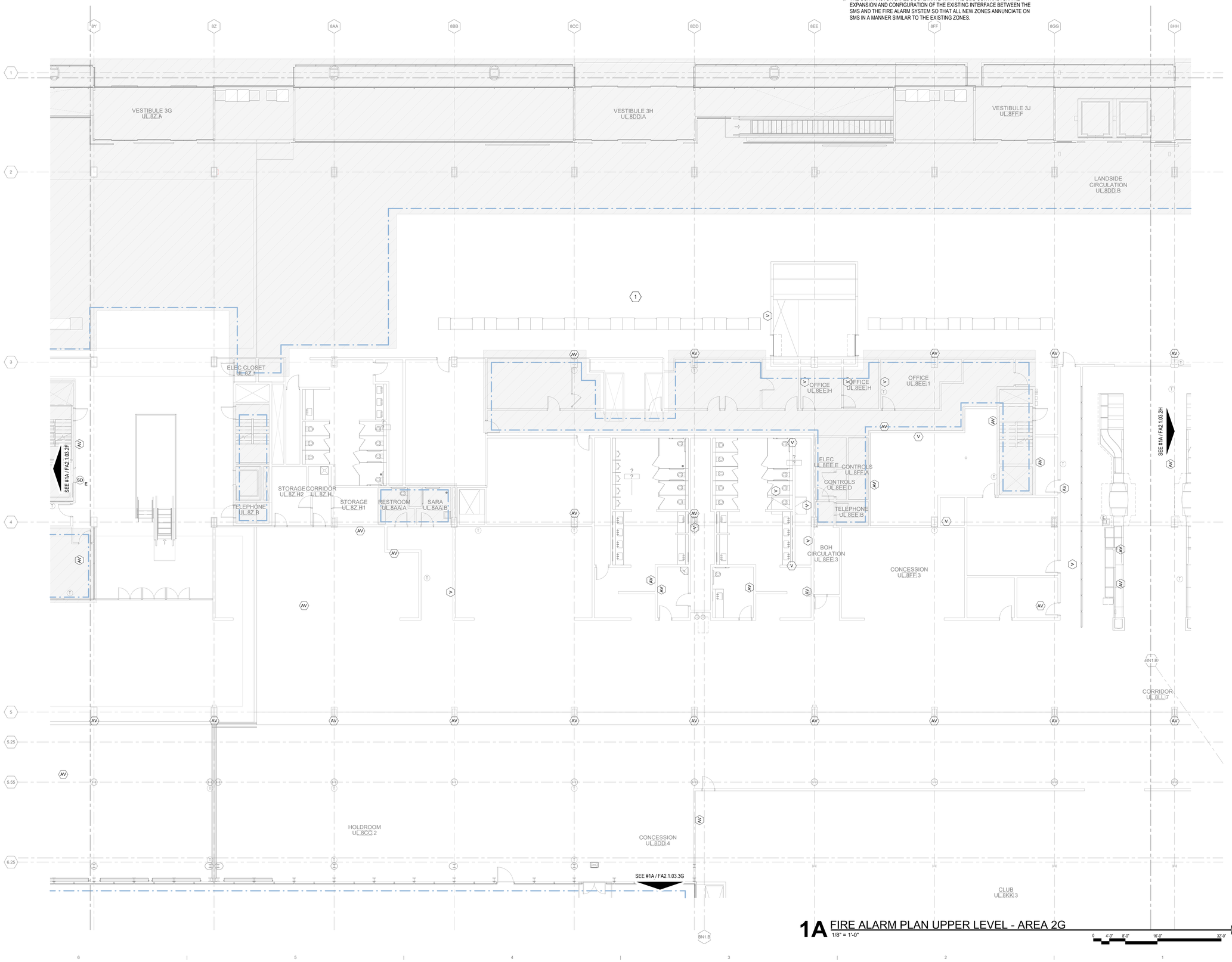

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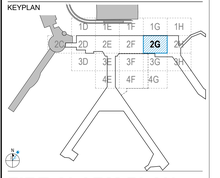

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DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.03.2G

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3 PROVIDE ELEVATOR SHUTDOWN RELAY WITHIN ELEVATOR SHAFT. COORDINATE WITH THE FIRE ALARM SYSTEM MANUFACTURER/MAINTAINER PRIOR TO THE INSTALLATION. CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, BOXES, MOUNTING HARDWARE, TERMINATIONS, AND ASSOCIATED APPURTENANCES AS REQUIRED FOR THE INTALLATION. REFER TO FA RISER DIAGRAMS FOR ADDITIONAL DETAILS. CONTRACTOR TO COORDINATE EXACT LOCATION OF DEVICE IN FIELD.

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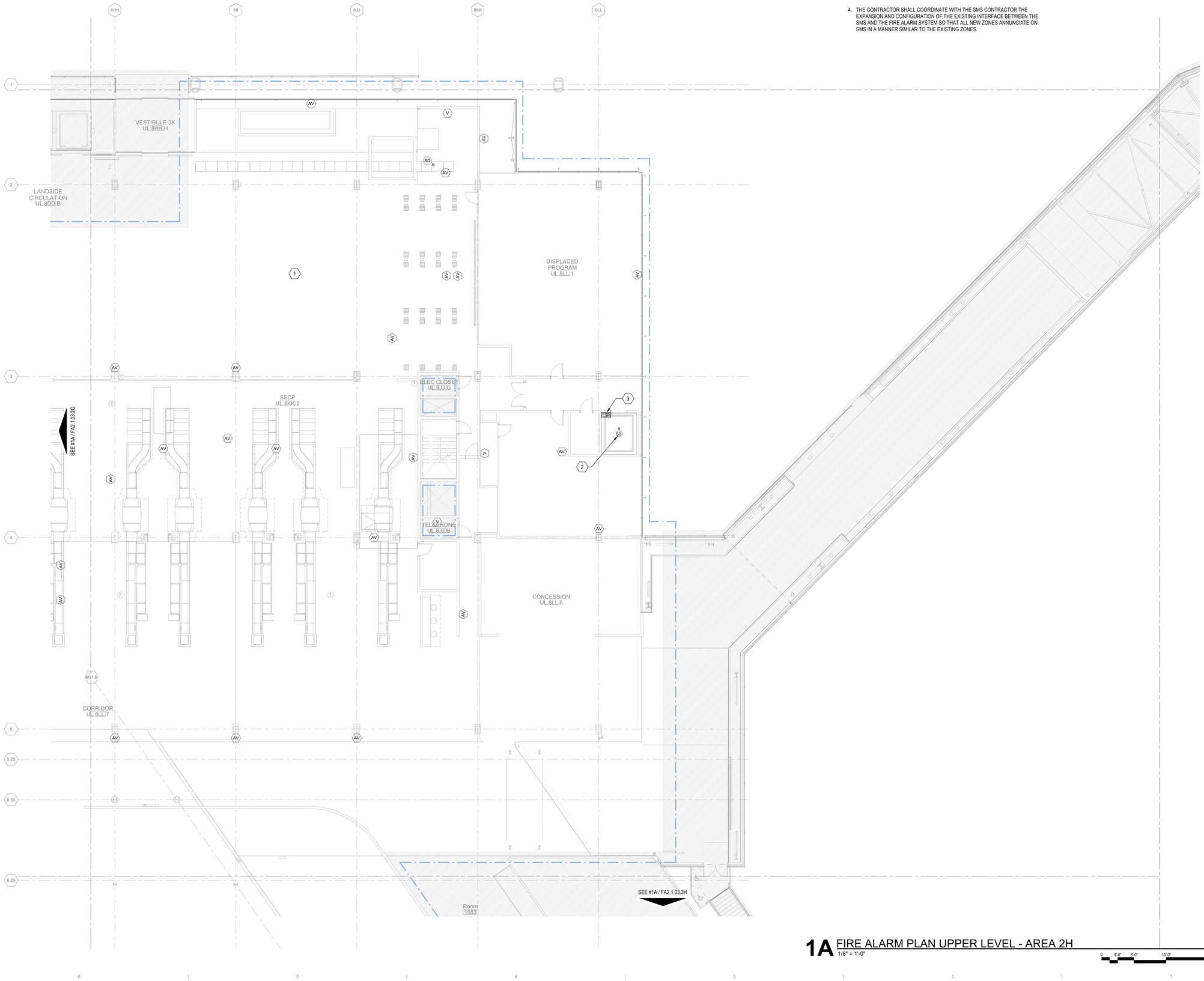

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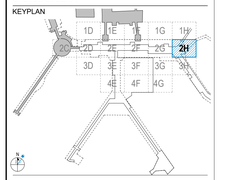

FIRE ALARM PLAN UPPER LEVEL - AREA 2H

DRAWN BY: **FK**
CHECKED BY: **MC**
SHEET NUMBER
VOLUME: **2**

FA2.1.03.2H

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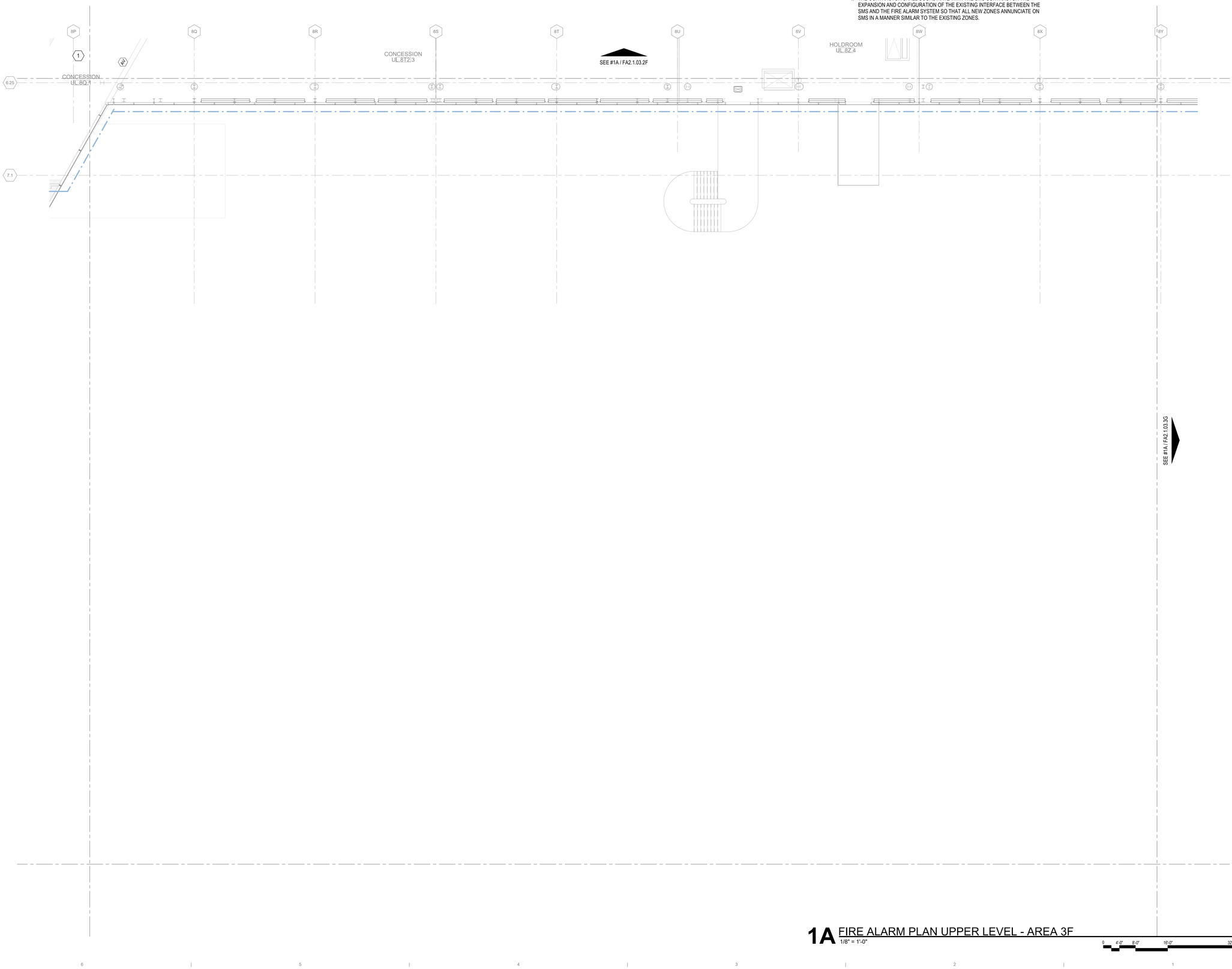

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3/20/2023 9:06:55 AM

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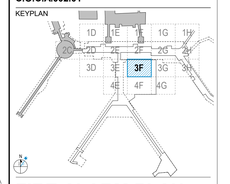

FIRE ALARM PLAN UPPER LEVEL - AREA 3F

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.03.3F

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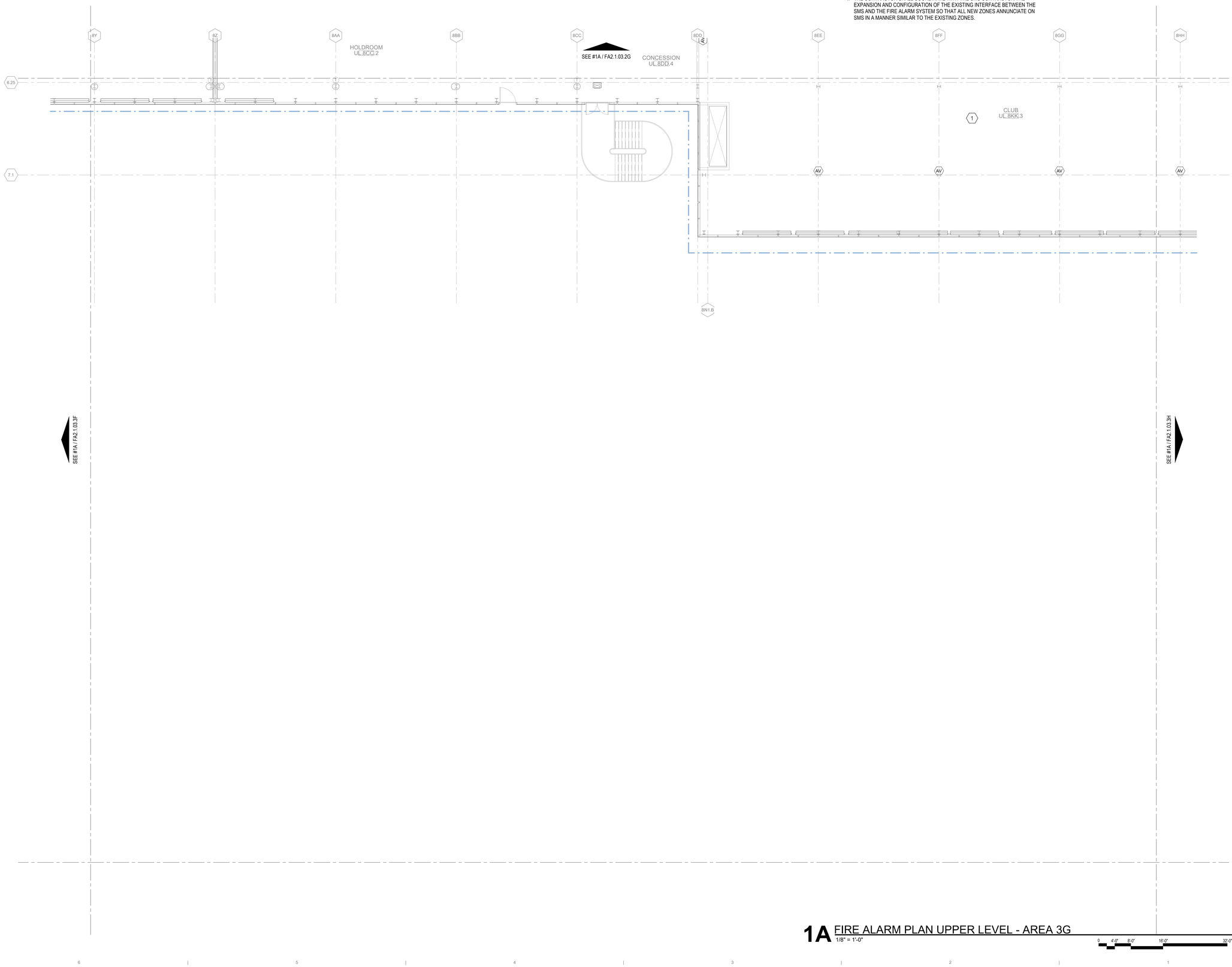

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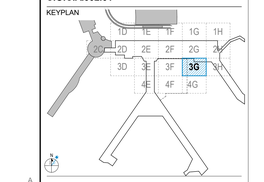

FIRE ALARM PLAN UPPER LEVEL - AREA 3G

DRAWN BY: **FK** CHECKED BY: **MC**

SHEET NUMBER **FA2.1.03.3G** VOLUME: **2**

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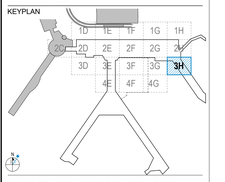
C.O.C.A.002.01

KEYPLAN



FIRE ALARM PLAN UPPER LEVEL - AREA 3H

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.03.3H

3/20/2023 1:02:12 AM

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KEYED NOTES #

1 PROVIDE NEW DUCT SMOKE DETECTOR FOR AIR HANDLING UNIT AND/OR EXHAUST FAN. DUCT DETECTOR TO BE PROVIDE FOR SUPPLY/RETURN/EXHAUST FANS OVER 2000CFM. PROPOSED DUCT SMOKE DETECTOR SHALL BE OF IN-KIND TYPE, SIZE, AND RATING AS EXISTING. CONDUIT AND WIRING FROM PREVIOUS DUCT SMOKE DETECTORS MAY BE RE-USED TO EXTENT POSSIBLE, PROVIDE NEW AS REQUIRED. PROVIDE NEW FIRE ALARM LOOP WHERE REQUIRED, IN LIEU OF CONNECT BACK TO THE PANEL ITSELF DUCT DETECTOR MAY BE INTEGRATED INTO THE NEAREST ADDRESSABLE FIRE ALARM LOOP (TYP).

2 PROVIDE NEW ADDRESSABLE FIRE SHUT DOWN RELAY, IN-KIND TO MATCH EXISTING SYSTEM. FOR THE AUTOMATIC SHUT OFF FUNCTION OF THE PROPOSED AIR HANDLING UNIT/FAN. TIE THE PROPOSED MODULE TO AHU SUPPLY AND RETURN DUCT DETECTORS AND ASSOCIATED FIRE ALARM LOOP. COORDINATE WITH THE AHU AND FIRE ALARM SYSTEM MANUFACTURER/MAINTAINER PRIOR TO THE INSTALLATION. CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, BOXES, MOUNTING HARDWARE, TERMINATIONS, AND ASSOCIATED APPURTENANCES AS REQUIRED FOR THE INTEGRATION INTO THE AHU. REFER TO FA RISER DIAGRAMS FOR ADDITIONAL DETAILS. (TYPICAL FOR ALL AHUS)

GENERAL NOTES

1. FIRE ALARM SYSTEM SHOWN ON PLANS IS AN ADDRESSABLE TYPE SYSTEM. THE COMPLETE SYSTEM SHALL BE DESIGNED BY A NICET LEVEL IV DESIGNER OR LICENSED PROFESSIONAL FIRE PROTECTION ENGINEER, WHO WILL PROVIDE DOCUMENTATION THAT THE FIRE ALARM DESIGN HAS BEEN REVIEWED AND IS IN COMPLIANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S REQUIREMENTS.
2. EXISTING FIRE ALARM CONTROL PANEL (FACP) EQUIPMENT PANELS SHALL BE UTILIZED AS PART OF THIS CONTRACT AND SHALL BE FOR THE NEW ALARM INITIATING DEVICES, ALARM NOTIFICATION DEVICES AND ASSOCIATED AIR HANDLING UNITS. PROVIDE NEW CONDUIT TO THE EXTENT REQUIRED. CONTRACTOR SHALL PROVIDE NEW CONDUCTORS WHERE REQUIRED TO THE NEAREST DEVICE OR BACK TO FDSC, SPLICING OF FA CONDUCTORS IS NOT PERMITTED.
3. FURNISH AND INSTALL ALL ANCILLIARY COMPONENTS, HARDWARE, POWER CONNECTIONS, WIRING AND NOTIFICATION APPLIANCE CIRCUIT DEVICES AS REQUIRED FOR A COMPLETE AND OPERATING FIRE ALARM SYSTEM.
4. THE CONTRACTOR SHALL COORDINATE WITH THE SMS CONTRACTOR THE EXPANSION AND CONFIGURATION OF THE EXISTING INTERFACE BETWEEN THE SMS AND THE FIRE ALARM SYSTEM SO THAT ALL NEW ZONES ANNUNCIATE ON SMS IN A MANNER SIMILAR TO THE EXISTING ZONES.
5. DETECTOR INSTALLATION COORDINATE DETECTORS INSTALLATION WITH OTHER NEW EQUIPMENT. RELOCATE DETECTORS AS REQUIRED TO CLEAR THESE OBSTRUCTIONS. ALL DETECTORS SHALL BE READILY ACCESSIBLE FOR ROUTINE MAINTENANCE AND TESTING.
6. THE PROPOSED FIRE ALARM WIRING SYSTEMS SHALL BE RUN IN NO MORE THAN 12-#14 IN A 3/4"C. THE FIRE DETECTION SYSTEM SHALL BE A COMPLETELY SEPARATE AND INDEPENDENT WIRING SYSTEM FROM ALL OTHER ELECTRICAL SYSTEMS. ALL AC WIRING SHALL BE SEPARATE FROM ALL DC WIRING.
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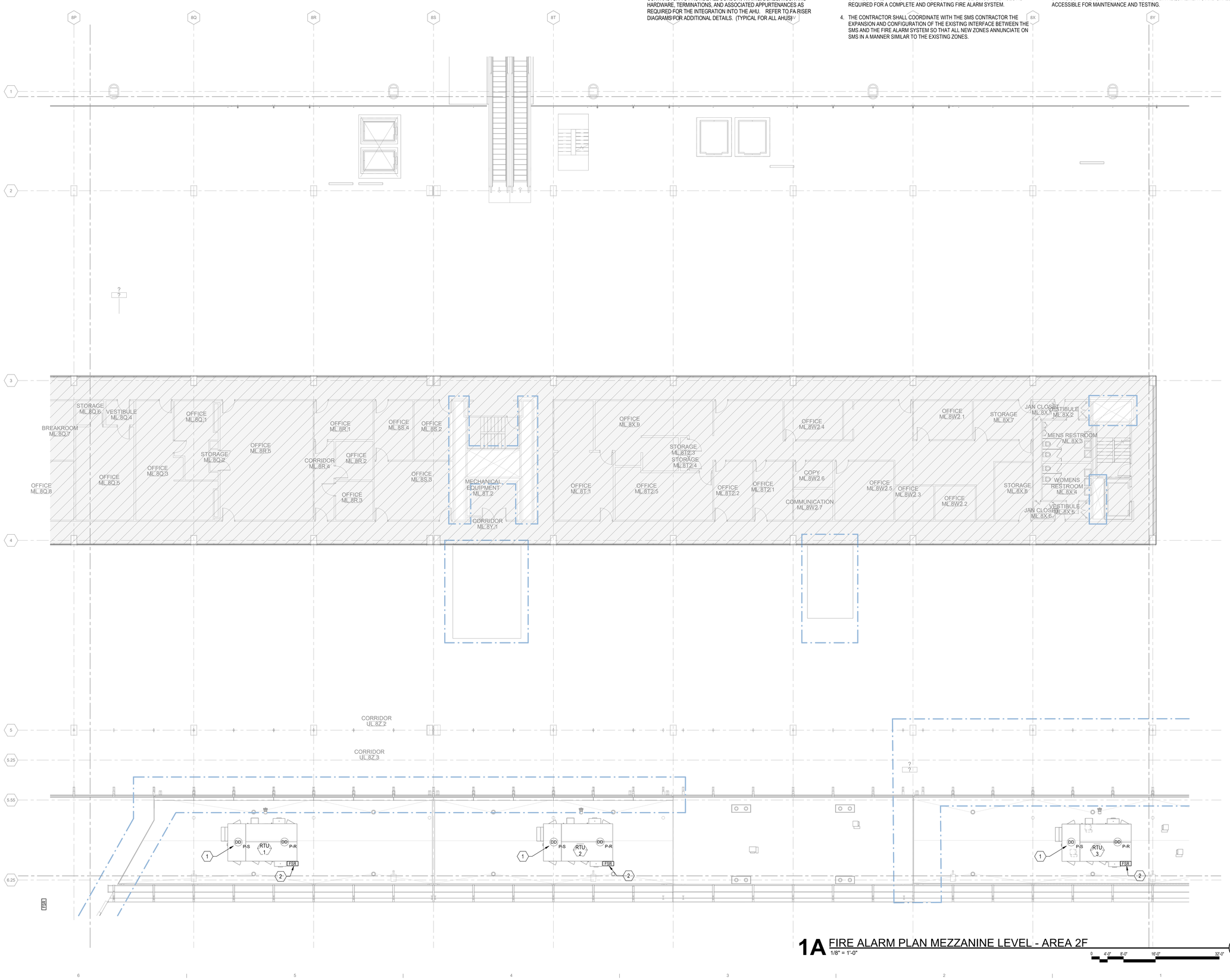
8. THE EQUIPMENT LOCATIONS SHOWN ARE SCHEMATIC. THE EXACT LOCATION OF ALL FIRE DETECTION SYSTEM EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND PER NFPA 72 AND ADA REQUIREMENTS AND SHALL BE ACCESSIBLE FOR MAINTENANCE AND TESTING.



1A FIRE ALARM PLAN MEZZANINE LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 3:19:43 PM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
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10000 W. O'HARE AVE.
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STAMPING CONSULTANT
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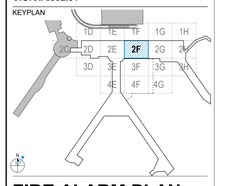

FIRE ALARM PLAN MEZZANINE LEVEL - AREA 2F

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
FA2.1.04.2F

VOLUME:

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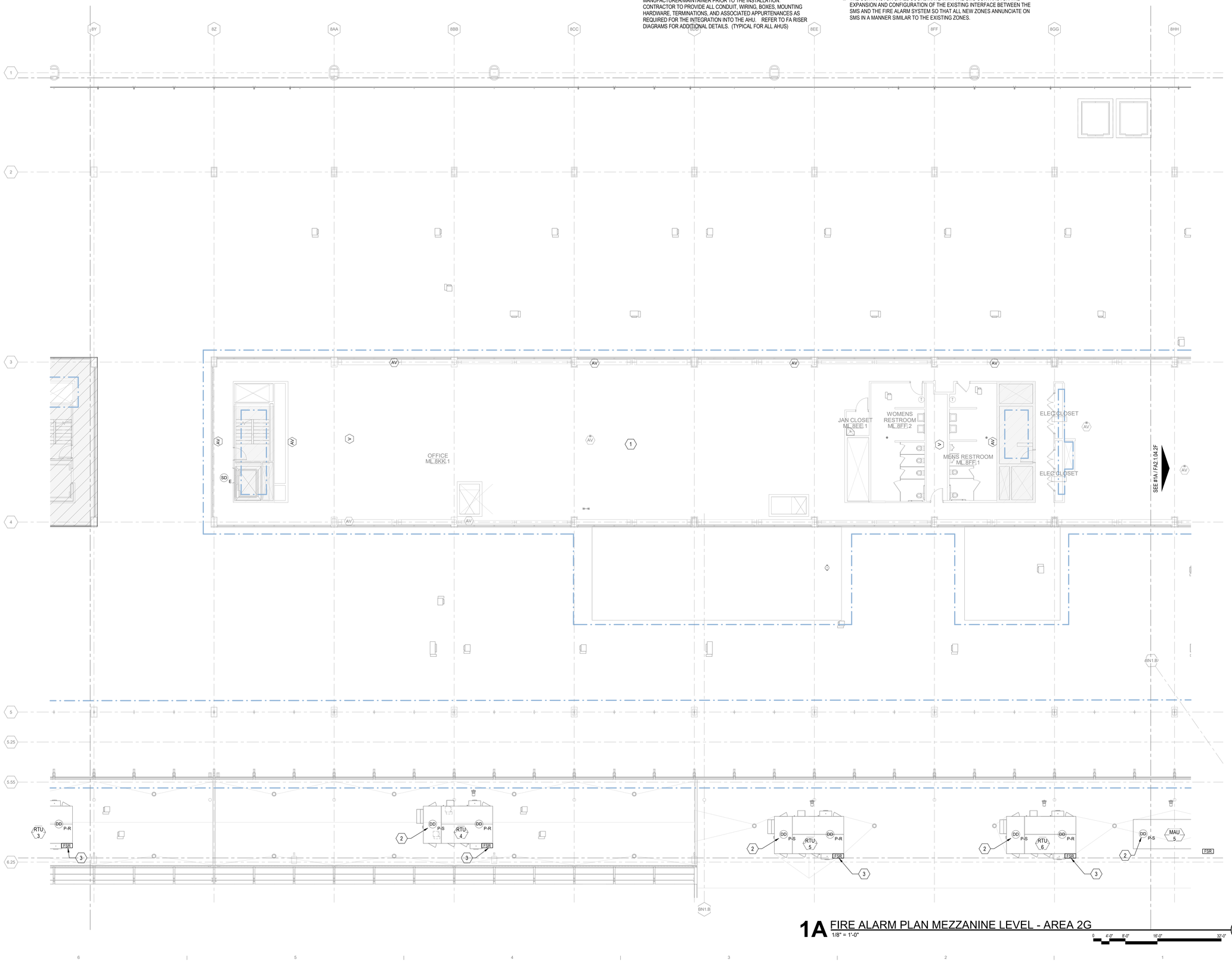

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NOTES

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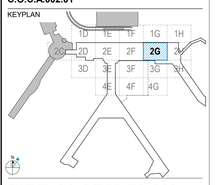

FIRE ALARM PLAN MEZZANINE LEVEL - AREA 2G

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER **FA2.1.04.2G** VOLUME: **2**

3/22/2023 3:20:07 PM

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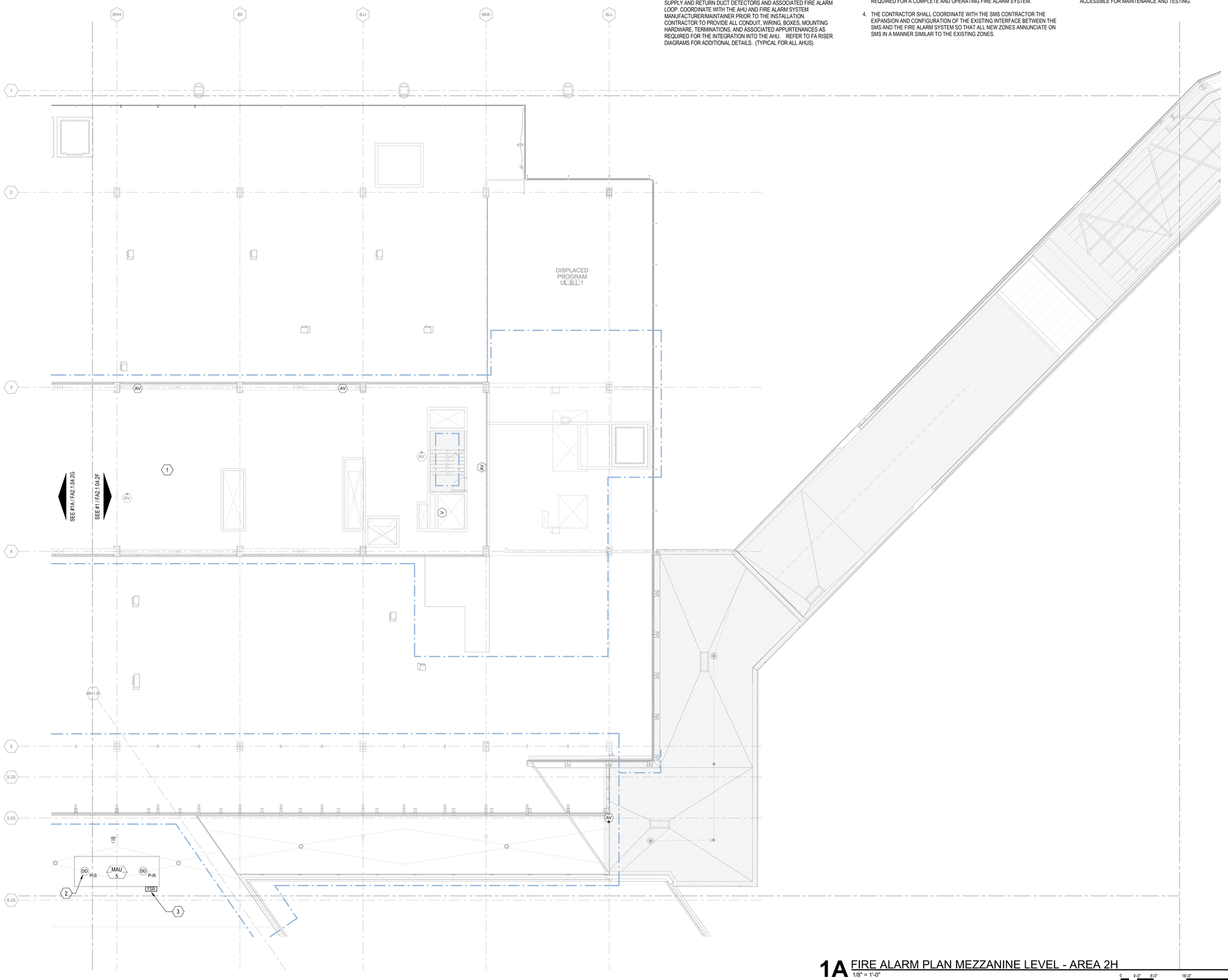

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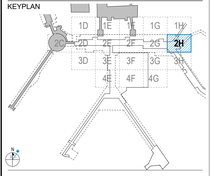

FIRE ALARM PLAN MEZZANINE LEVEL - AREA 2H

DRAWN BY: **FK** CHECKED BY: **MC**
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FA2.1.04.2H

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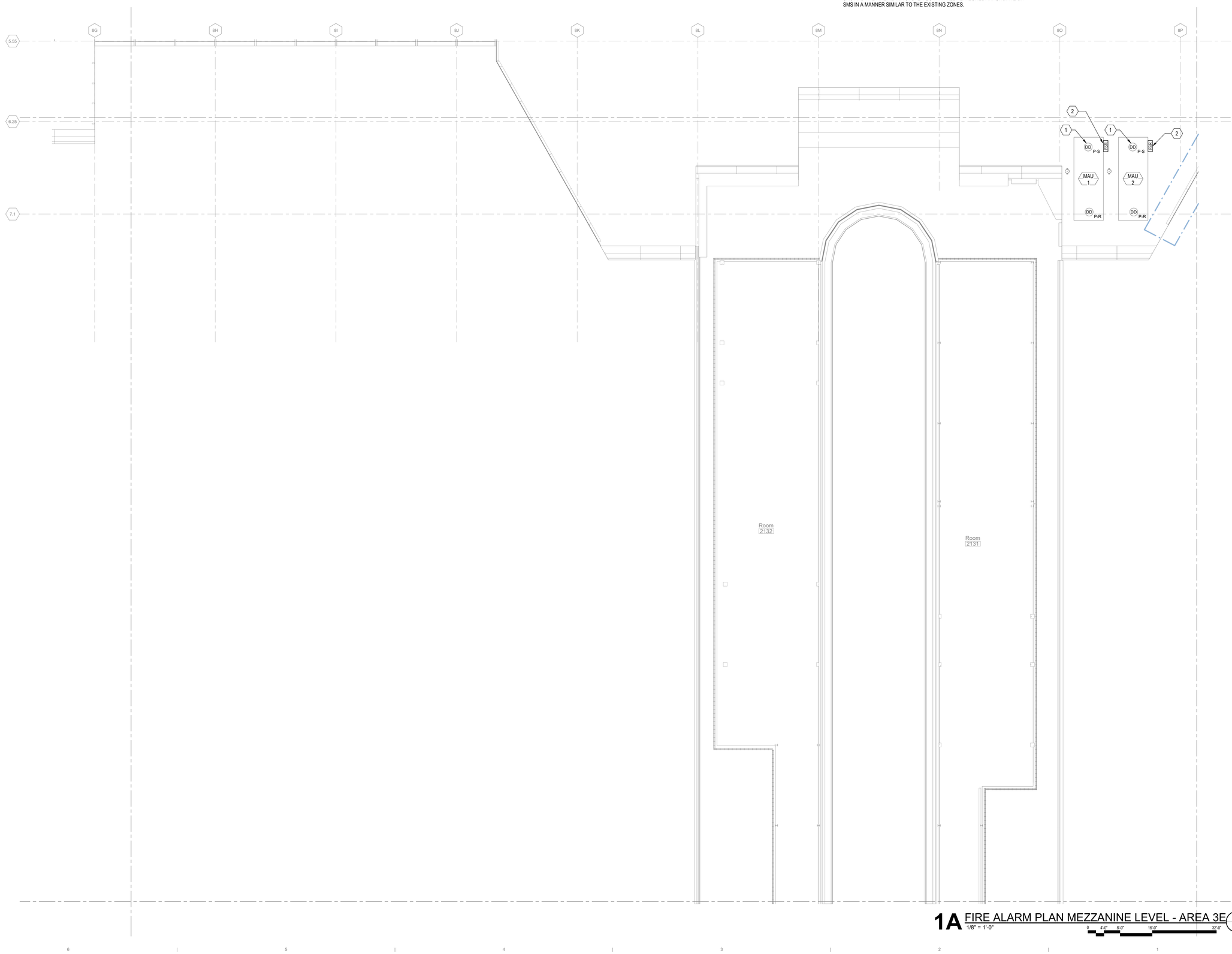

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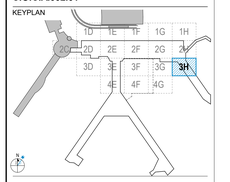

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DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
FA2.1.04.3E

VOLUME:

3/20/2023 9:08:33 AM

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1A FIRE ALARM PLAN MEZZANINE LEVEL - AREA 3H
1/8" = 1'-0"

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CDA Chicago Department of Aviation

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LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
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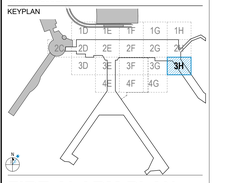
KEYPLAN



FIRE ALARM PLAN MEZZANINE LEVEL - AREA 3H

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER VOLUME:
FA2.1.04.3H

3/20/2023 1:05:20 AM

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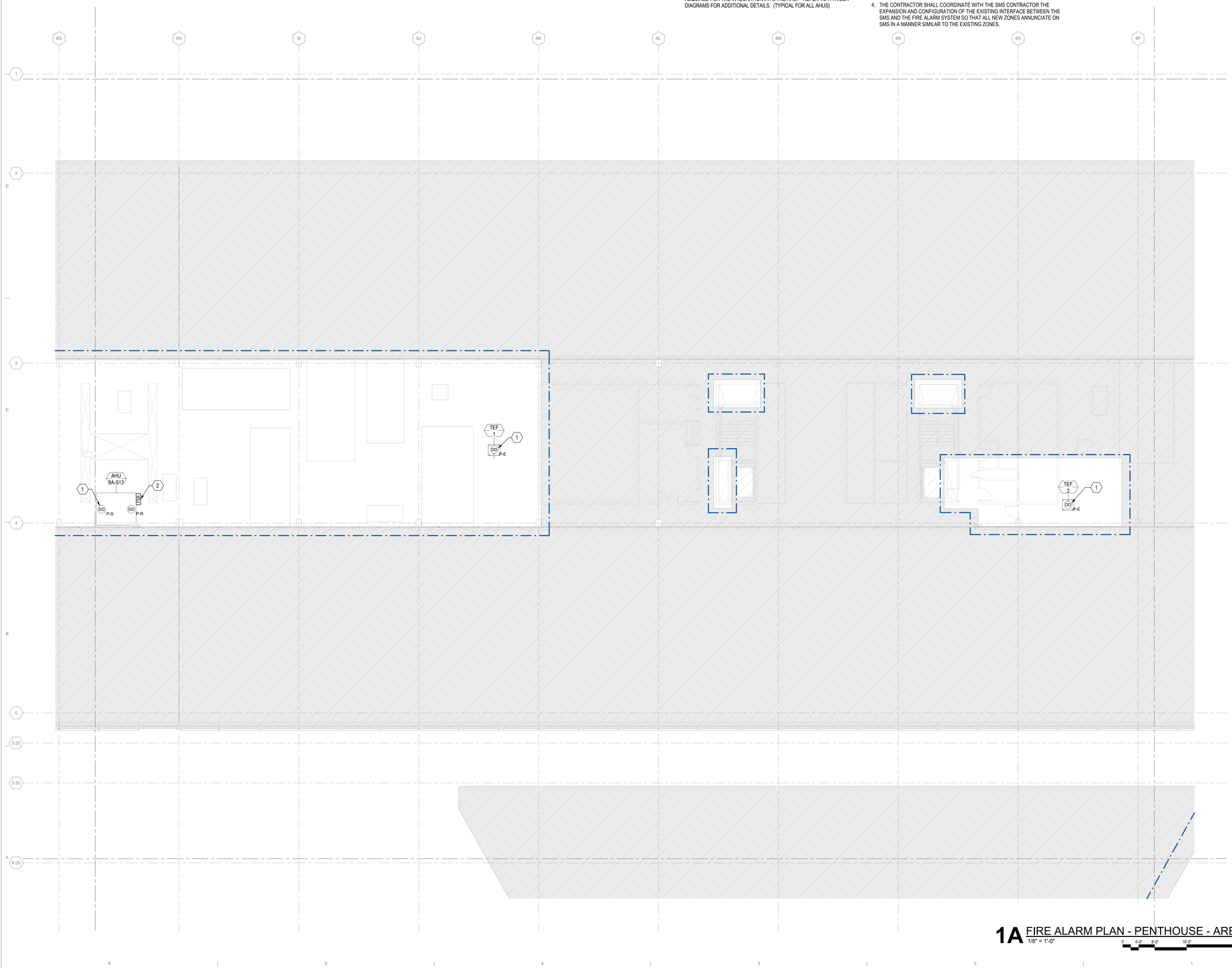

1A FIRE ALARM PLAN - PENTHOUSE - AREA 2E
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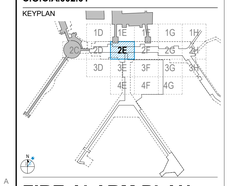

FIRE ALARM PLAN PENTHOUSE - AREA 2E

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CHECKED BY: **MC**
SHEET NUMBER
VOLUME: **2**

FA2.1.05.2E

KEYED NOTES #

4 PROPOSED FIRE ALARM DEVICES. FINAL PLACEMENT OF DEVICES ARE TO BE COORDINATED BY THE CONTRACTOR IN THE FIELD. CONTRACTOR IS TO CONFIRM THAT ADEQUATE COVERAGE IS PROVIDED FOR FIRE ALARM HORN AND STROBE SYSTEM FOR THE PROPOSED AREA (TYPICAL).

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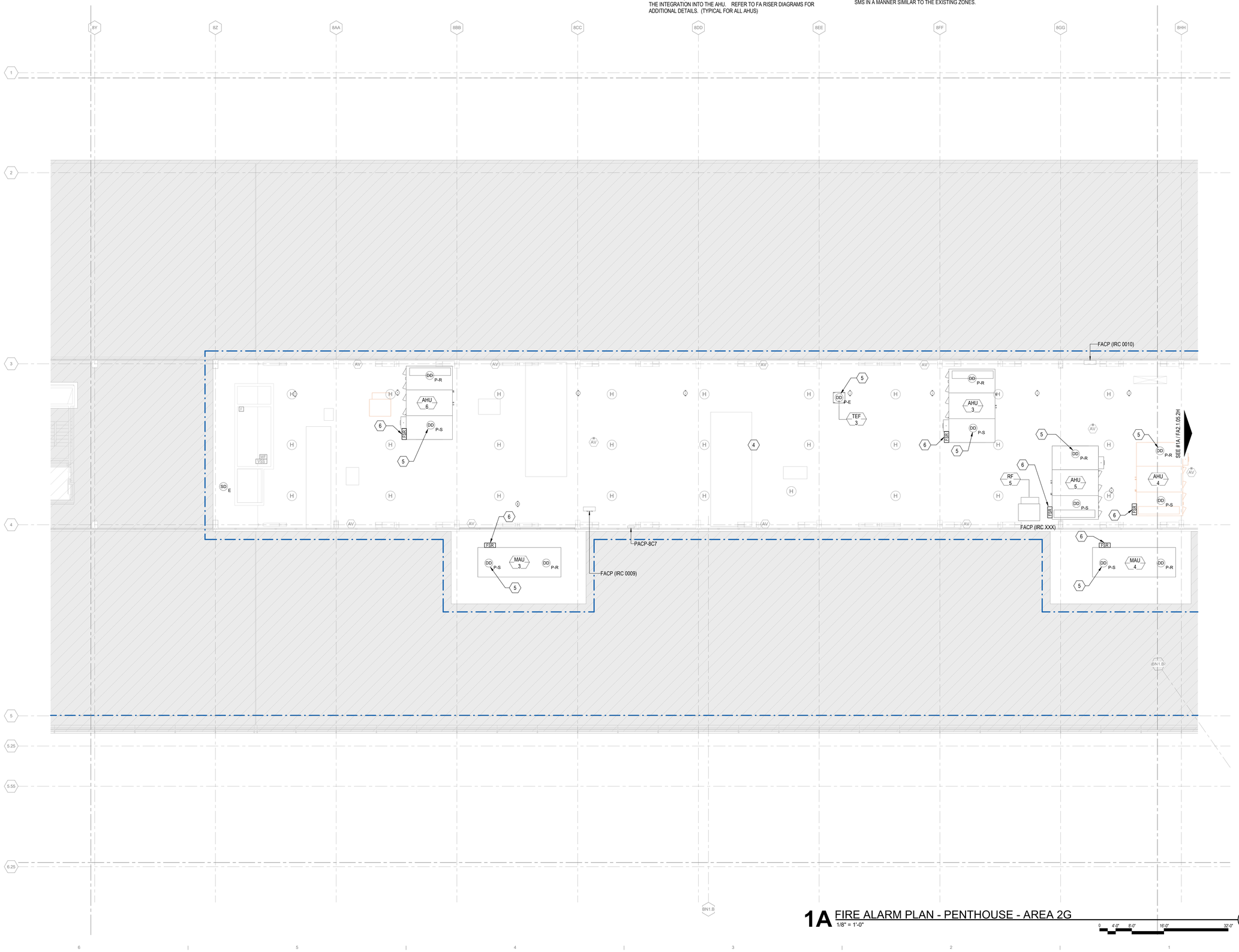

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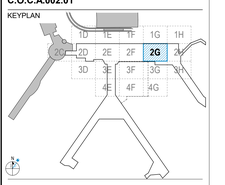

FIRE ALARM PLAN PENTHOUSE - AREA 2G

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SHEET NUMBER: **FA2.1.05.2G** VOLUME: **2**

3/20/2023 1:06:09 AM

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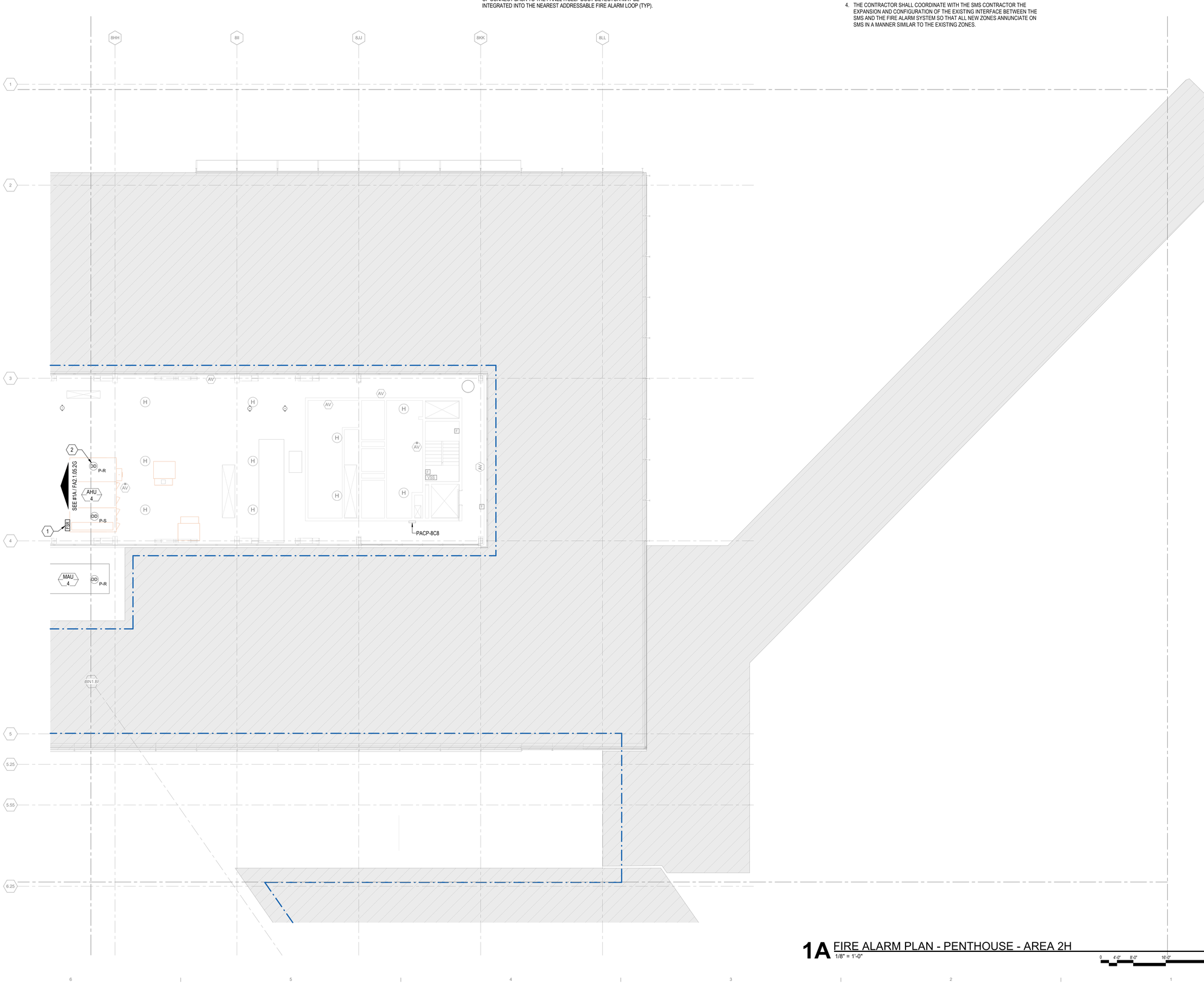

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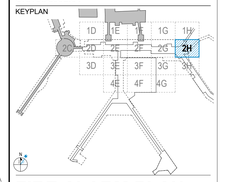

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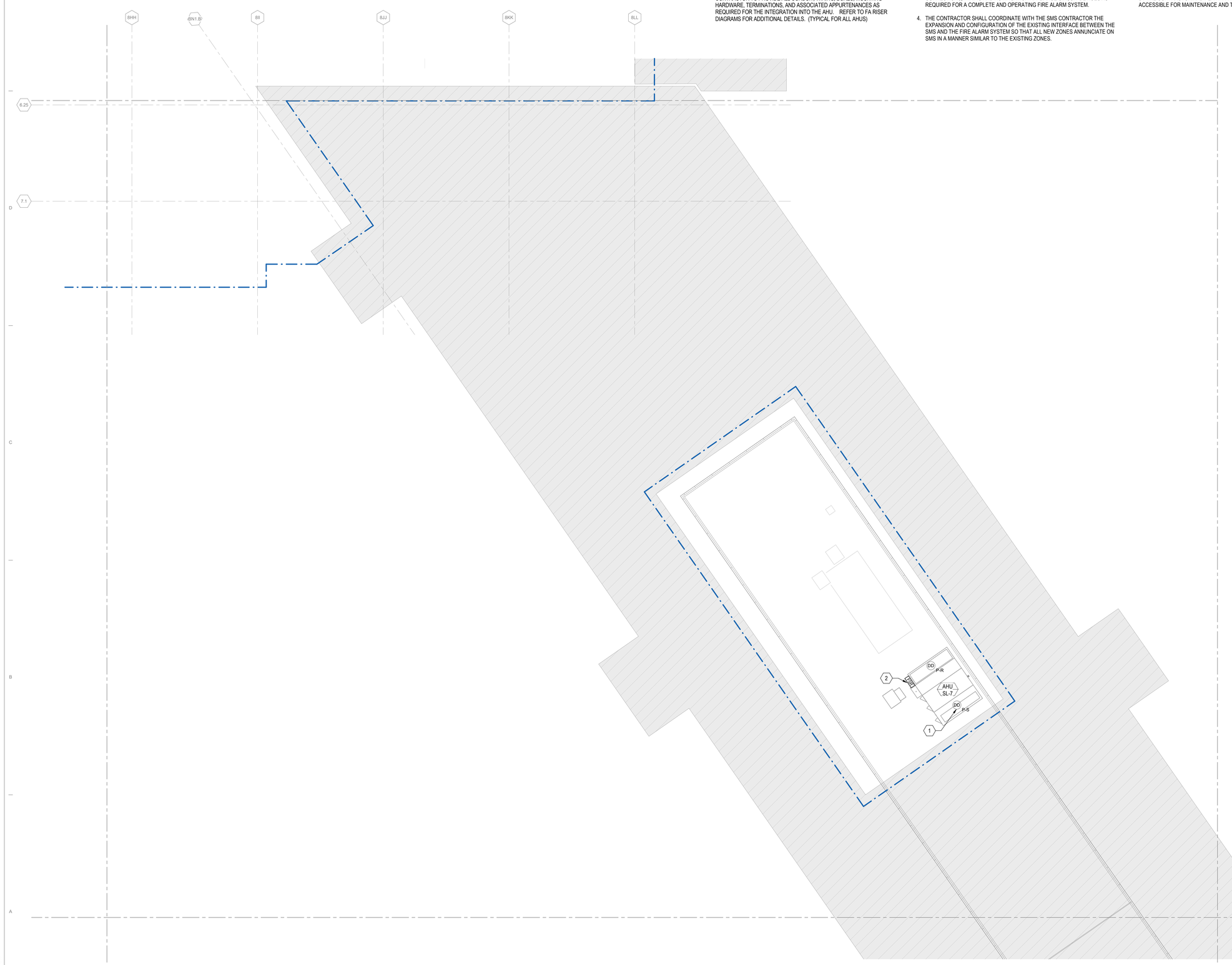

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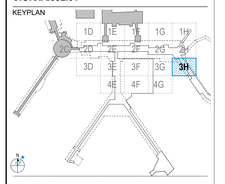
KEYPLAN



FIRE ALARM PLAN PENTHOUSE - AREA 3H

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER VOLUME: **2**

FA2.1.05.3H

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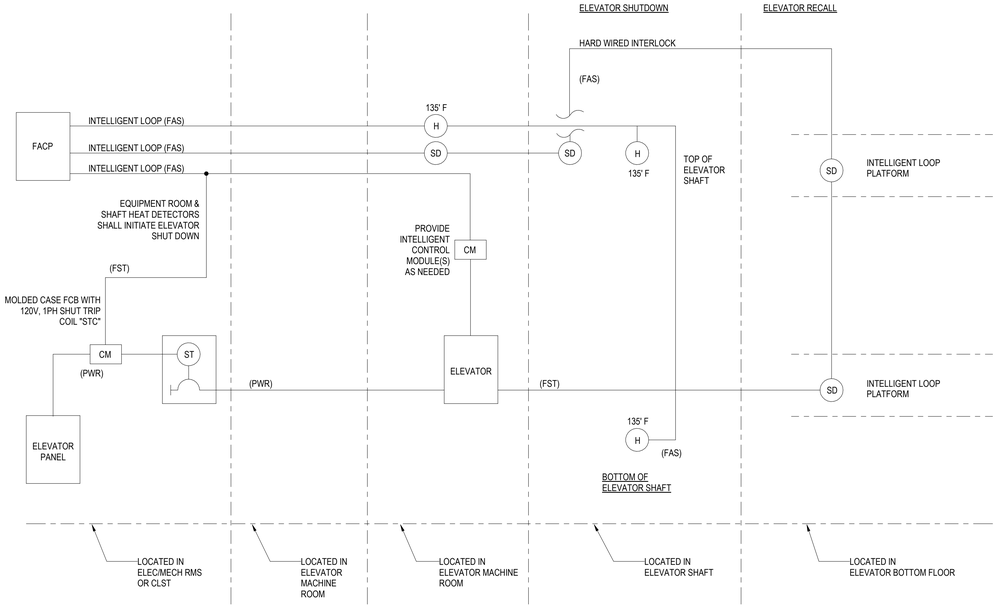
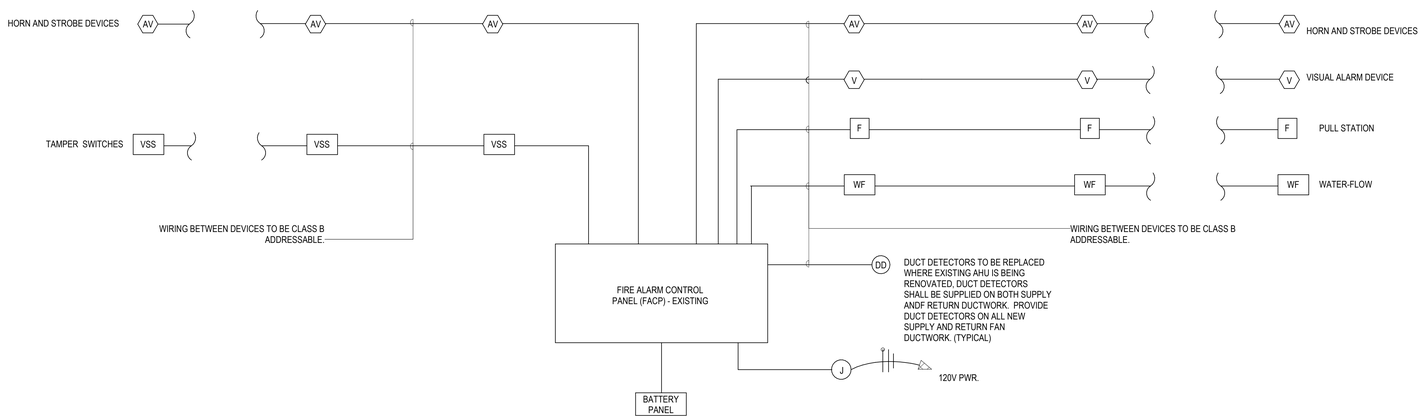


3C ELEVATOR SHUT-DOWN RECALL OVERRIDE SYSTEM EOS
NTS



2A SCHEMATIC DIAGRAM FIRE ALARM CONTROL RISER
NTS

FIRE DETECTION SYSTEM NOTES:

1. GENERAL

   FIRE ALARM SYSTEM SHOWN ON PLANS INDICATES BASIC REQUIREMENTS ONLY. THIS SYSTEM IS AN ADDRESSABLE TYPE SYSTEM. THE COMPLETE SYSTEM SHALL BE DESIGNED BY A NICET LEVEL IV DESIGNER OR LICENSED PROFESSIONAL FIRE PROTECTION ENGINEER, WHO WILL PROVIDE DOCUMENTATION THAT THE FIRE ALARM DESIGN HAS BEEN REVIEWED AND IS IN COMPLIANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.

   THE EXISTING FIRE ALARM SYSTEM AT TERMINAL 1/2/3 IS TO REMAIN, COORDINATION/INTEGRATION WITH THE EXISTING SYSTEM IS TO BE CONSIDERED APART OF THE PROJECT SCOPE OF WORK. THE CONDITIONS OF THE EXISTING SYSTEM IS UNKOWN. EXISTING TERMINAL 3 FIRE ALARM SYSTEM CONDITION, FUNCTION AND FIRE ALARM DEVICE LOCATION ARE TO BE VERIFIED IN FIELD AS AS-BUILT INFORMATION IS NOT AVAILABLE AT THE TIME OF DESIGN. THE CONTRACTOR SHALL CARRY ALL COST FOR VERIFICATION OF EXISTING CONDITIONS AS PART OF THEIR DELEGATED DESIGN PROCESS AS NOTED IN THE PROJECT SPECIFICATION. THE FINAL NUMBER AND LOCATION OF INITIATING DEVICES, NOTIFICATION DEVICES AND ANNUNCIATOR PANELS ARE TO BE DETERMINED BY THE FINAL DELEGATED DESIGN CONTRACTOR PER THE SELECTED MANUFACTURERS PRODUCT REQUIREMENTS.

   NEW FIRE ALARM CONTROL PANELS (FACP) SHALL BE PROVIDED AS REQUIRED AND/OR NOTED IN THE PROJECT DOCUMENTS AND IN COORDINATION WITH FIELD CONDITIONS AND SPACE AVAILABILITY, EQUIPMENT PANELS SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT AND SHALL BE UTILIZED FOR THE NEW ALARM INITIATING DEVICES AS REQUIRED, EXISTING MAY BE USED TO EXTENT POSSIBLE, ALARM NOTIFICATION DEVICES AND ASSOCIATED AIR HANDLING UNITS. SEE PLANS FOR APROXIMATE DEVICE LOCATIONS AND QUANTITIES, FINAL COUNT AND LOCATIONS TO BE DETERMINED BY THE DELEGATED DESIGN/CONTRACTOR. PROVIDE NEW CONDUIT AND CONDUCTORS AS REQUIRED. SPLICING OF CONDUCTORS IS NOT ALLOWED UNDER ANY CIRCUMSTACE.

   FURNISH AND INSTALL ALL ANCILLIARY COMPONENTS, HARDWARE, POWER CONNECTIONS, WIRING AND NOTIFICATION APPLIANCE CIRCUIT DEVICES AS REQUIRED FOR A COMPLETE AND OPERATING FIRE ALARM SYSTEM.

   THE CONTRACTOR SHALL COORDINATE WITH THE MEASUREMENT AND VERIFICATION (M&V) SYSTEM CONTRACTOR THE EXPANSION AND CONFIGURATION OF THE EXISTING INTERFACE BETWEEN THE SMS AND THE FIRE ALARM SYSTEM SO THAT ALL NEW ZONES ANNUNCIATE ON M&V IN A MANNER SIMILAR TO THE EXISTING ZONES.

2. CONDUIT ROUTING

   THE EXACT CONDUIT ROUTING SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. COORDINATE EXACT CABLE AND CONDUIT REQUIREMENTS WITH FIRE DETECTION SYSTEM VENDOR.

3. DETECTOR INSTALLATION

   COORDINATE DETECTORS INSTALLATION WITH OTHER NEW EQUIPMENT. RELOCATE DETECTORS AS REQUIRED TO CLEAR THESE OBSTRUCTIONS. ALL DETECTORS SHALL BE READILY ACCESSIBLE FOR ROUTINE MAINTENANCE AND TESTING.

4. WIRING SYSTEMS

   THE FOLLOWING FIRE ALARM WIRING SYSTEMS SHALL BE RUN IN NO MORE THAN 12-#14 IN A 3/4"C.

   THE FIRE DETECTION SYSTEM SHALL BE A COMPLETELY SEPARATE AND INDEPENDENT WIRING SYSTEM FROM ALL OTHER ELECTRICAL SYSTEMS. ALL AC WIRING SHALL BE SEPARATE FROM ALL DC WIRING.

5. CONDUIT AND CABLE REQUIREMENTS

   UNLESS NOTED OTHERWISE, ALL FIRE DETECTION SYSTEM CABLING IS #16 AWG FPL/FPLP/FPLR, ALL CONDUIT 3/4" EMT. (SEE NOTE 16, THIS DWG.)

6. DETECTION AND EQUIPMENT PROTECTION

   ONCE THE FIRE DETECTION SYSTEM IS PLACED INTO OPERATION, THE FIRE DETECTION EQUIPMENT SHALL BE PROTECTED FROM PHYSICAL DAMAGE, AS WELL AS NUISANCE ALARM, FOR THE DURATION OF THE WORK. PROTECT EXISTING FIRE ALARM SYSTEM TO MAINTAIN OPERATION.

7. FIRE SAFING

   ALL NEW PENETRATIONS IN WALLS, OR FLOOR SLABS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE SAFING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE SIMILAR TO PRODUCTS MANUFACTURED BY 3M CO. OPENINGS SHALL BE SEALED AT THE END OF EACH WORK DAY.

8. DEVICE AND EQUIPMENT LOCATIONS

   PROVIDE ALL NEW DEVICES COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. TIE INTO EXISTING FIRE ALARM SYSTEM. THE EQUIPMENT LOCATIONS SHOWN ARE SCHEMATIC. THE EXACT LOCATION OF ALL FIRE DETECTION SYSTEM EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND PER NFPA 72 AND ADA REQUIREMENTS AND SHALL BE ACCESSIBLE FOR MAINTENANCE AND TESTING.

9. SYSTEM CHECK-OUT

   UPON COMPLETION OF THE INSTALLATION, A FACTORY TRAINED, AUTHORIZED TECHNICIAN SHALL BE SENT TO THE JOB SITE TO PERFORM NECESSARY TESTS AND ADJUSTMENTS. BY TAGGING THE PANELS, THE TECHNICIAN IS CERTIFYING THAT THE SYSTEM FUNCTIONS AND CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION.

10. CODES AND PERMITS

    THE FIRE DETECTION AND ALARM SYSTEM INSTALLATION SHALL COMPLY WITH THE NFPA, AND ALL OTHER LOCAL AND MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THIS PROJECT. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF INSPECTION AND PERMITS WHICH MAY BE REQUIRED FOR THIS WORK, AND TURN OVER TO THE OWNER PRIOR TO REQUEST FOR FINAL PAYMENT.

11. SITE EXAMINATION

    THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT AN EXAMINATION OF THE PREMISES AND CONDITIONS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD SUCH AN EXAMINATION BEEN PERFORMED, WILL NOT BE RECOGNIZED.

12. COORDINATION OF WORK

    COORDINATE THE INSTALLATION OF THE WORK WITH THE OTHER TRADES ENGAGED ON THIS PROJECT WHENEVER THEIR WORK IS LIKELY TO AFFECT THE FIRE DETECTION AND ALARM SYSTEM INSTALLATION. BE FULLY RESPONSIBLE FOR ALL DIMENSIONS AND CONFLICTS BETWEEN THE WORK AND THAT OF OTHER TRADES AND MAKE THE NECESSARY CHANGES IN THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.

13. PULL/JUNCTION BOXES

    THE COVERS OF ALL NEW FIRE DETECTION SYSTEM PULL/JUNCTION BOXES SHALL BE RED UNLESS NOTED OTHERWISE.

14. CONDUITS

    SUPPORT OF CONDUITS SHALL BE FROM JOIST. CONDUIT SHALL BE FACTORY PAINTED RED TO AND CONDUITS SHALL BE LABELED PER SPECIFICATIONS.

15. VENDOR VERIFICATION

    FIRE DETECTION SYSTEM DEVICES SHOWN ARE TYPICAL. THE FIRE DETECTION SYSTEM VENDOR SHALL VERIFY THEIR EQUIPMENT IS CAPABLE OF PROTECTION AT THE SPACING HEIGHTS INDICATED. ALL WIRING SHALL BE VERIFIED WITH THE VENDOR AS TO QUANTITY, SIZE, INSULATION, ROUTING, AND CONDUIT AND JUNCTION BOX REQUIREMENTS.

16. GENERAL WIRING NOTES

    THE INSTALLATION OF "ADDRESSABLE" FIRE ALARM SYSTEMS SHALL FOLLOW THE FOLLOWING RULES:

    A. ALL CONDUIT SHALL BE 3/4" EMT FACTORY PAINTED RED UNLESS NOTED OTHERWISE. THE SIZE OF CONDUIT FOR MAIN RISERS SHALL BE 1" OR GREATER. ALL PIPE WORK AND QUANTITY OF FILL SHALL BE IN ACCORDANCE WITH NFPA, AND ALL OTHER LOCAL AND MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THIS PROJECT.
    B. ALL JUNCTION AND SPLICE BOXES SHALL BE FACTORY PAINTED RED.
    C. MINIMUM WIRE SIZE SHALL BE 16 AWG CABLE, APPROVED BY A RECOGNIZED TESTING LABORATORY, WHICH IS MARKED AS "POWER LIMITED" (FPL, FPLR, FPLP) OR "NON-POWER LIMITED" (NPLF, NPLFR, NPLFP) AND IS COMPATIBLE WITH THE EQUIPMENT MAY BE USED.
    D. ALL WIRING SHALL BE AS FOLLOWS:
       a. IN PROPOSED BUILDINGS AND BUILDINGS WITH NEW OR REPLACED FIRE ALARM SYSTEMS THE CONTRACTOR SHALL PROVIDE A CLASS "A" FIBER BACKBONE BETWEEN FDSC PANELS, CLASS "B" COPPER FROM PANELS TO INDIVIDUAL DEVICES.
       b. IN BUILDINGS WHERE WE ARE MODIFYING OR TYING INTO EXISTING FIRE ALARM SYSTEMS CONTRACTOR SHALL PROVIDE MINIMUM 2 HR RATED COPPER FIRE ALARM CABLE WITH A CLASS "A" LOOP BETWEEN PANELS IN SEPERATE PATHS ROUTED INDEPENDENTLY, CLASS "B" COPPER WIRING FROM PANELS TO INDIVIDUAL DEVICES.
    E. THE FILL OF ANY RACEWAY SHALL NOT EXCEED 40% OF THE CROSS-SECTIONAL AREA OF THAT RACEWAY. THIS FILL SHALL INCLUDE ANY EXTRA AREA TAKEN BY TWISTING OR CABLING OF THE INDIVIDUAL WIRES.
    F. ALL TERMINATION OF FIELD WIRING SHALL BE DIRECTLY CONNECTED TO ANY DEVICE OR EQUIPMENT THROUGH APPROVED TERMINALS. DEVICES WHICH USE "PIG-TAIL" LEADS SHALL NOT BE APPROVED.
    G. CONVENTIONAL DEVICES MAY BE INTERFACED TO "ADDRESSABLE" CIRCUITS THROUGH THE USE OF APPROVED MODULES WHICH PROVIDE ALL REQUIRED SUPERVISION OF THE CONVENTIONAL CIRCUIT. THE APPROVED INTERFACE MODULES SHALL BE MOUNTED WITHIN PROPER ENCLOSURES.

17. SEQUENCE OF OPERATION

    THE FIRE ALARM SYSTEM WILL TIE INTO THE EXISTING SYSTEM, THE SEQUENCE OF OPERATION SHALL BE IN-KIND TO MATCH EXISTING.

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

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PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

FIRE ALARM RISER DIAGRAM

DRAWN BY: **FK** CHECKED BY: **MC**
SHEET NUMBER: **FA4.01**
VOLUME: **2**

3/20/2023 1:07:07 AM

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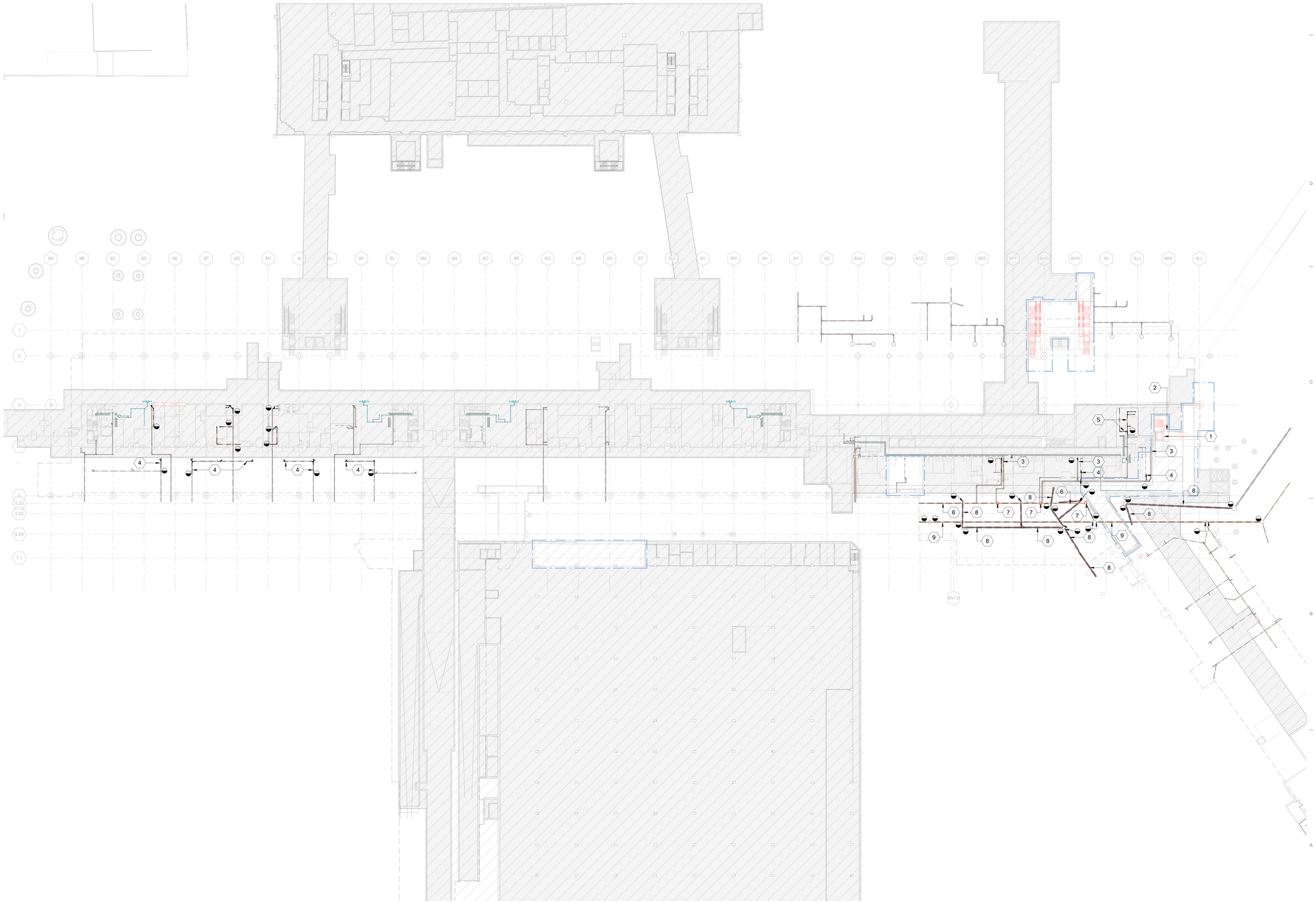
KEY NOTES:

1. DISCONNECT AND REMOVE ELEVATOR SUMP PUMP AND ALL ASSOCIATED PIPING AND CONTROLS FROM THE ELEVATOR SHAFT TO BE DEMOLISHED. CAP WASTE PIPE AT ACTIVE MAIN.
2. DISCONNECT AND REMOVE FLOOR DRAIN FROM THE BOTTOM OF STAIRWELL TO BE DEMOLISHED. CAP UNDERGROUND WASTE PIPE AND ABANDON IN PLACE.
3. DISCONNECT AND REMOVE 8" STORM PIPE GOING UP TO LOWER LEVEL. CAP PIPE FOR FUTURE RECONNECTION.
4. DISCONNECT UNDERGROUND STORM PIPING FROM FLOOR DRAINS TO BE REMOVED AND FROM ACTIVE MAINS. CAP AND ABANDON INACTIVE UNDERGROUND PIPES IN PLACE.
5. DISCONNECT AND REMOVE ALL WASTE PIPING SERVING UPPER FLOOR PLUMBING FIXTURES/EQUIPMENT TO BE DEMOLISHED. CAP PIPES AT THE ACTIVE MAINS.
6. REMOVE EXISTING UNDERGROUND SANITARY PIPING. PATCH SLAB TO MATCH EXISTING.
7. REMOVE EXISTING SANITARY MANHOLES. PROVIDE BACKFILL AS REQUIRED TO MATCH EXISTING GRADE WHERE MANHOLES HAVE BEEN REMOVED. PATCH SLAB TO MATCH EXISTING.
8. REMOVE EXISTING STORM PIPING LOCATED UNDER THE BUILDING FOOTPRINT AND WITHIN 5 FEET BEYOND THE BUILDING PERIMETER AND REPLACE IN KIND WITH NEW CAST IRON PIPING.
9. REMOVE EXISTING SANITARY PIPING LOCATED UNDER THE BUILDING FOOTPRINT AND WITHIN 5 FEET BEYOND THE BUILDING PERIMETER AND REPLACE IN KIND WITH NEW CAST IRON PIPING.



1A OVERALL PLUMBING DEMOLITION PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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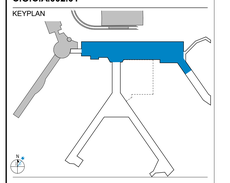

OVERALL PLUMBING DEMOLITION PLAN - BASEMENT LEVEL

DRAWN BY: **Author** CHECKED BY: **JM**
SHEET NUMBER VOLUME: **2**

PD1.2.01

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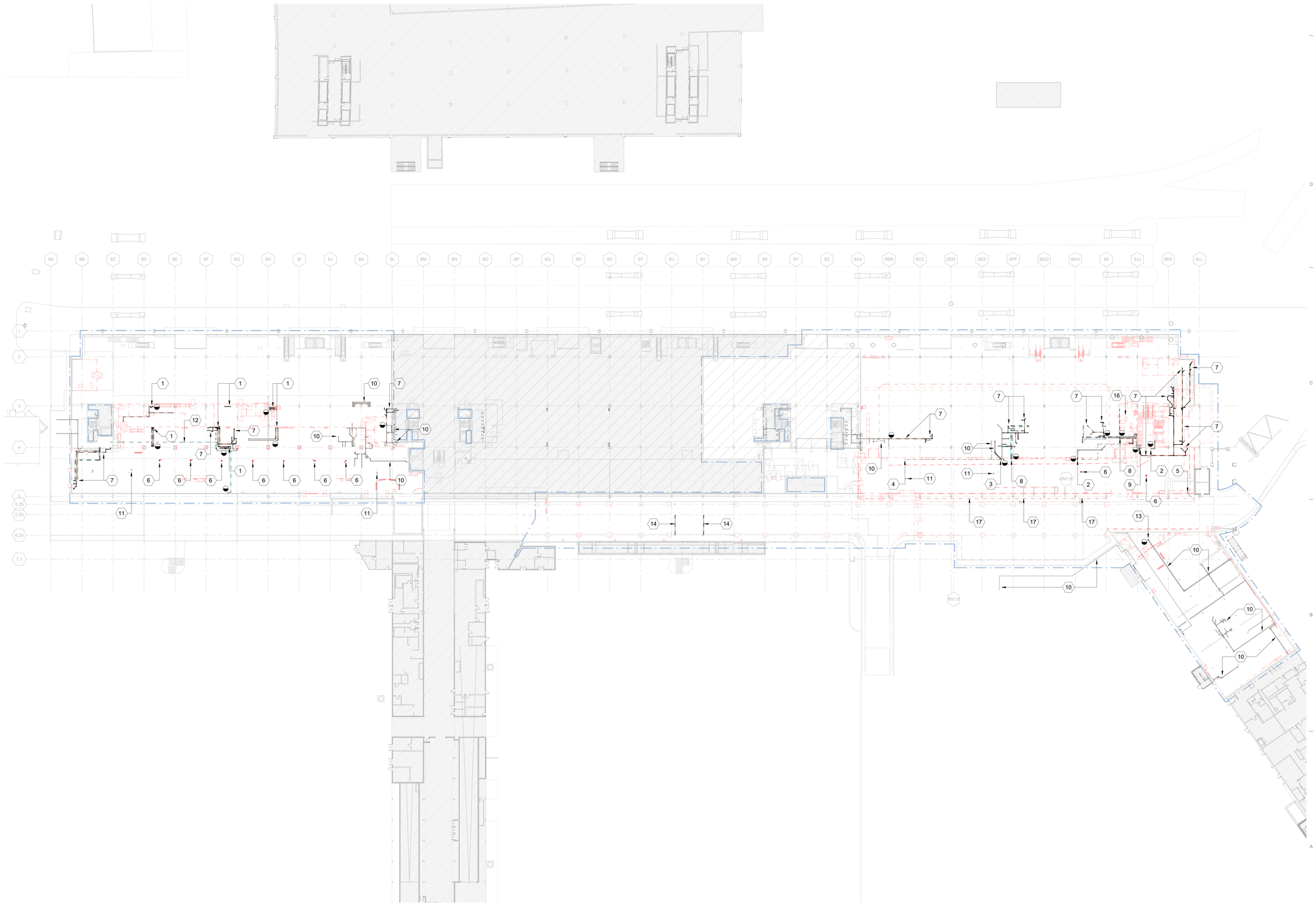
KEY NOTES:

1. DISCONNECT AND REMOVE 6" STORM STACK, 4" SANITARY STACK, 4" VENT STACK. THE PIPES SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE LOWER LEVEL AND IN THE CEILING SPACE OF THE BASEMENT LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
2. DISCONNECT AND REMOVE 8" STORM PIPE GOING DOWN. THE PIPE SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE LOWER LEVEL AND IN THE CEILING SPACE OF THE BASEMENT LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
3. DISCONNECT AND REMOVE 8" STORM PIPE AND 3" VENT PIPE GOING DOWN. THE PIPES SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE LOWER LEVEL AND IN THE CEILING SPACE OF THE BASEMENT LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
4. DISCONNECT AND REMOVE 3" VENT PIPE GOING DOWN. THE PIPE SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE LOWER LEVEL AND IN THE CEILING SPACE OF THE BASEMENT LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
5. DISCONNECT AND REMOVE 4" COLD WATER RISER TO BE REPLACED WITH NEW.
6. DISCONNECT AND REMOVE EXISTING AREA DRAIN.
7. DISCONNECT AND REMOVE ALL WASTE AND WATER LINES SERVING UPPER FLOOR PLUMBING FIXTURES/EQUIPMENT TO BE DEMOLISHED. CAP PIPES AT THE ACTIVE MAINS/RISERS.
8. DISCONNECT AND REMOVE WATER RISERS (3"CW, 1-1/2"HW, 1"HWR). THE PIPES SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE LOWER LEVEL AND IN THE CEILING SPACE OF THE BASEMENT LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
9. DISCONNECT AND REMOVE 5" SANITARY STACK AND 4" VENT STACK. THE PIPES SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE LOWER LEVEL AND IN THE CEILING SPACE OF THE BASEMENT LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
10. PLUMBING PIPING TO REMAIN.
11. EXISTING AREA DRAIN TO REMAIN.
12. DISCONNECT AND REMOVE EXISTING 1"CW TO BE REPLACED WITH NEW.
13. DISCONNECT AND REMOVE 8" STORM PIPE GOING UP. THE PIPE SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE LOWER LEVEL AND IN THE CEILING SPACE OF THE UPPER LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
14. DISCONNECT AND REMOVE 4" STORM DRAIN PIPING SERVING UPPER LEVEL ROOF DRAINS. CAP PIPES BELOW GRADE.
15. DISCONNECT AND REMOVE 1" COLD WATER LINE RUNNING ALONG THE BRIDGE TO BE DEMOLISHED. CAP PIPE INSIDE THE STRUCTURE AT ACTIVE MAIN.
16. DISCONNECT AND REMOVE ALL PLUMBING FIXTURES/EQUIPMENT AND ALL ASSOCIATED PIPING IN THE EXISTING JANITOR CLOSET TO BE DEMOLISHED. CAP PIPES AT ACTIVE MAINS/RISERS.
17. EXISTING CATCH BASIN WITH GRATE TO REMAIN.



1A OVERALL PLUMBING DEMOLITION PLAN - LOWER LEVEL

1/32" = 1'-0"

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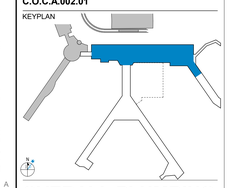

OVERALL PLUMBING DEMOLITION PLAN - LOWER LEVEL

DRAWN BY: **Author** CHECKED BY: **JM**

SHEET NUMBER
PD1.2.02

VOLUME: **2**

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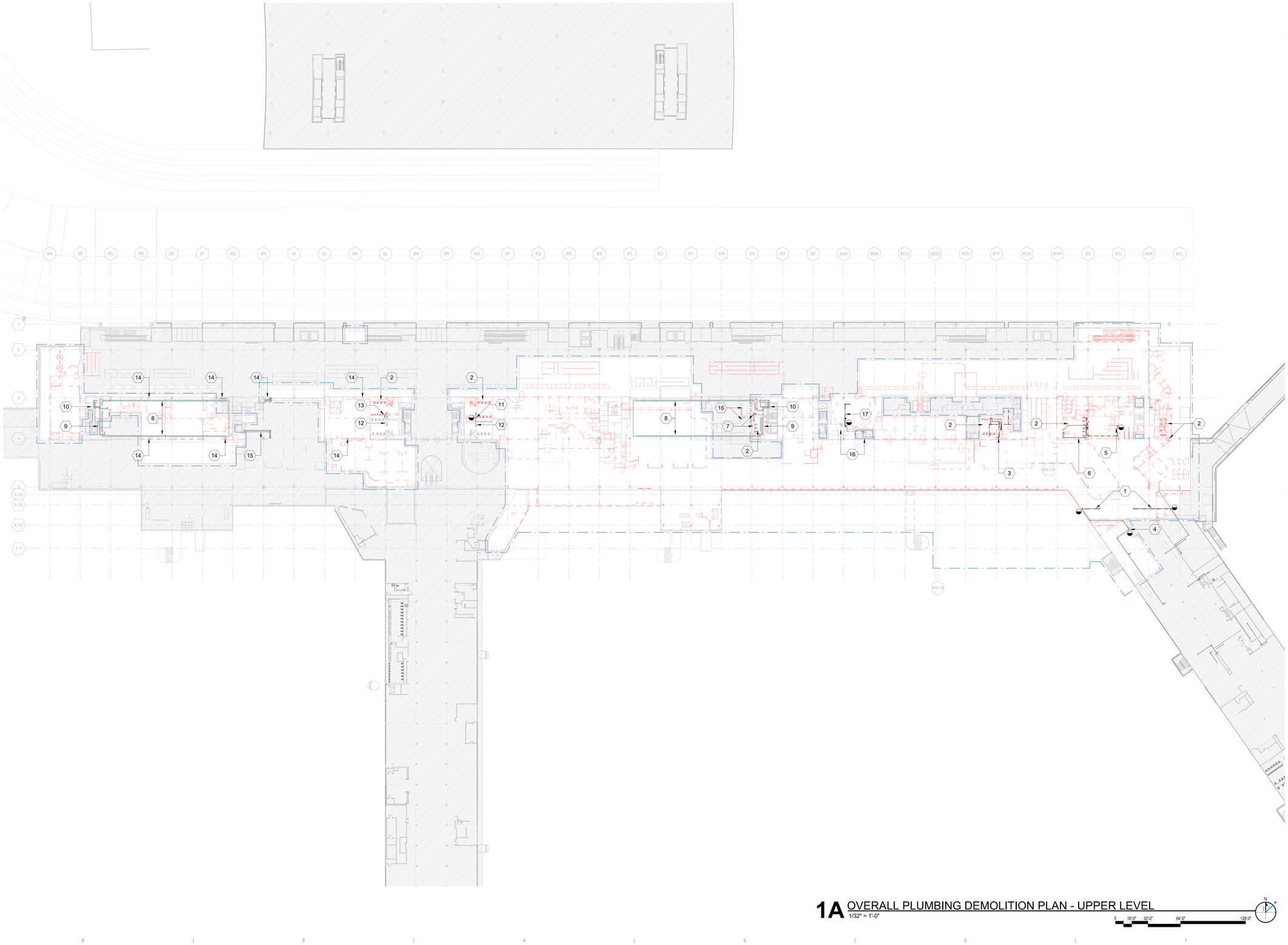
KEY NOTES:

1. DISCONNECT AND REMOVE STORM DRAIN PIPES SERVING ROOF DRAINS TO BE DEMOLISHED. CAP PIPE FOR NEW STORM LINES CONNECTION.
2. DISCONNECT AND REMOVE ALL PLUMBING FIXTURES AND ALL ASSOCIATED PIPING IN THE EXISTING RESTROOM AND JANITOR CLOSET TO BE DEMOLISHED. CAP PIPES AT ACTIVE MAINS/RISERS.
3. 4" SANITARY PIPE TO REMAIN.
4. DISCONNECT AND REMOVE 8" STORM DRAIN PIPE GOING DOWN. THE PIPE SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE UPPER LEVEL AND IN THE CEILING SPACE OF THE LOWER LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
5. 4" WASTE STACK, 3" AND 5" VENT STACKS, 1" HW&HWR RISERS, AND 2" CW RISER TO REMAIN. THE PIPES SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE UPPER LEVEL AND IN THE CEILING SPACE OF THE LOWER LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
6. 8" STORM DRAIN PIPE TO REMAIN.
7. 6" SANITARY STACK AND 4" VENT STACK TO REMAIN.
8. 3" HOT WATER LOOP AND 4" COLD WATER LINES TO REMAIN.
9. ACTIVE DOMESTIC WATER LINES IN CEILING SPACE TO REMAIN.
10. DOMESTIC WATER RISERS IN MECHANICAL SHAFT TO REMAIN.
11. DISCONNECT AND REMOVE 6" SANITARY DRAIN PIPE GOING DOWN. THE PIPE SHALL BE DISCONNECTED IN THE CEILING SPACE OF THE UPPER LEVEL AND IN THE CEILING SPACE OF THE LOWER LEVEL, AND CAPPED FOR NEW PIPE RECONNECTION.
12. 6" VENT STACK TO REMAIN.
13. 6" SANITARY STACK TO REMAIN.
14. 6" STORM DRAIN, 4" SANITARY AND 4" VENT STACKS TO REMAIN.
15. 6" STORM AND 4" SANITARY DRAIN PIPES TO REMAIN.
16. EXISTING PLUMBING FIXTURES TO REMAIN.
17. DISCONNECT AND REMOVE SANITARY PIPING SERVING MEZZANINE LEVEL RESTROOM TO BE DEMOLISHED. CAP PIPE AT ACTIVE MAIN/STACK.



1A OVERALL PLUMBING DEMOLITION PLAN - UPPER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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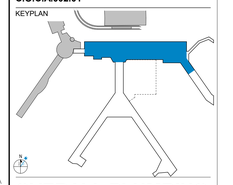
NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



OVERALL PLUMBING DEMOLITION PLAN - UPPER LEVEL

DRAWN BY: **Author** CHECKED BY: **JM**
SHEET NUMBER VOLUME: **2**

PD1.2.03

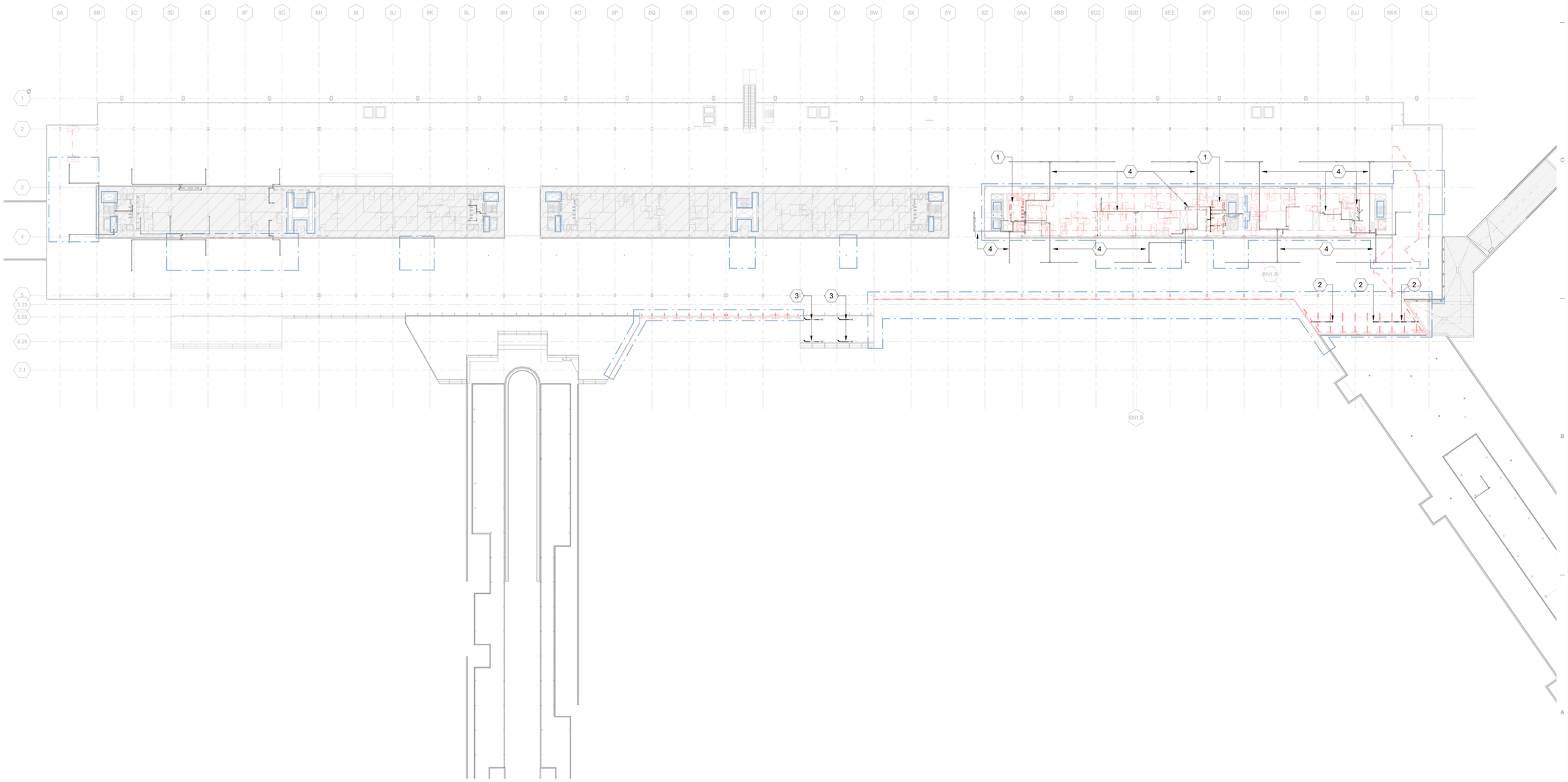
GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.

KEY NOTES:

1. DISCONNECT AND REMOVE ALL PLUMBING FIXTURES AND ALL ASSOCIATED PIPING IN THE EXISTING RESTROOM TO BE DEMOLISHED. CAP PIPES AT ACTIVE MAINS/RISERS.
2. REMOVE ROOF DRAIN AND ASSOCIATED PIPING FROM THE EXISTING ROOF TO BE DEMOLISHED AND REPLACED WITH NEW. CAP PIPE IN THE UPPER LEVEL CEILING SPACE FOR NEW ROOF DRAINS RECONNECTION.
3. DISCONNECT AND REMOVE STORM DRAIN PIPING AND CAP BELOW GRADE. EXISTING ROOF DRAINS TO REMAIN.
4. PLUMBING PIPING TO REMAIN.





1A OVERALL PLUMBING DEMOLITION PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

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SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
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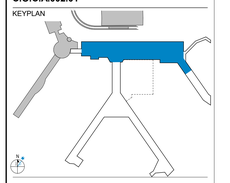
KEYPLAN



OVERALL PLUMBING DEMOLITION PLAN - MEZZANINE LEVEL

DRAWN BY: **Author** CHECKED BY: **JM**
SHEET NUMBER VOLUME: **2**

PD1.2.04

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ABBREVIATIONS

-A-	
ABAN	ABANDON
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AG	AIR GAP
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
-B-	
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
BLW	BELOW/UNDERGROUND
BMS	BUILDING MANAGEMENT SYSTEM
-C-	
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CL	CENTER LINE
CLG	CEILING
CO	CLEANOUT
CONN	CONNECT, CONNECTION
COORD	COORDINATE
CW	COLD WATER
-D-	
DEG	DEGREE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DOM	DOMESTIC
DR	DRAIN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
-E-	
(E)/EX	EXISTING TO REMAIN
EJ	EJECTOR
EL	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
-F-	
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF EL	FINISH FLOOR ELEVATION
FLR	FLOOR
FT	FEET/FOOT
-G-	
G	GAS
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GR FL	GROUND FLOOR
GWH	GAS WATER HEATER
-H-	
HORIZ	HORIZONTAL
HTR	HEATER
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HWCP	HOTWATER CIRCULATION PUMP
HWP	HOT WATER PUMP
-I-	
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
IN	INCH
-J-	
-K-	
KW	KILOWATT
-L-	
LAV	LAVATORY
LBS	POUND(S)
-M-	
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM OR MINUTE
MR	MOP RECEPTOR
-N-	
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACTO
NTS	NOT TO SCALE
-O-	
OS&Y	OPEN STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
-P-	
PLBG	PLUMBING
POS	POSITIVE
PSI	POUNDS PER SQUARE INCH
-R-	
R	RISER
REC	RECESSED
REM	REMOVABLE
REV	REVISED, REVISION
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
-S-	
S	SINK
S	SANITARY
SQ FT	SQUARE FEET
SPEC	SPECIFICATION
SS	STAINLESS STEEL
ST	STORM
STD	STANDARD
STRUC	STRUCTURAL
-T-	
T&P VALVE	TEMPERATURE AND PRESSURE VALVE
TEMP	TEMPERATURE
TMV	TEMPERATURE MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
-U-	
UNGD	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UR	URINAL
-V-	
V	VENT
VB	VACUUM BREAKER
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
-W-	
W	WIDTH OR WASTE
W	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WT	WEIGHT
WTR	WATER

GENERAL NOTES-NEW WORK

1. INSTALL ALL PLUMBING MATERIALS AND EQUIPMENT IN ACCORDANCE WITH CHICAGO BUILDING CODE, CHICAGO PLUMBING CODE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
2. THE WORK UNDER THESE SPECIFICATIONS SHALL INCLUDE ALL LABOR, SERVICES, MATERIALS AND EQUIPMENT, AND PERFORMANCE OF ALL WORK REQUIRED FOR THE INSTALLATION OF ALL PLUMBING WORK AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
3. THE PLUMBING CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, AND COSTS REQUIRED TO FACILITATE CONSTRUCTION OF THE NEW WORK AND REMODELING OF THE EXISTING SYSTEMS.
4. PLUMBING CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPER FUNCTIONING SYSTEM.
5. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID.
6. THE CONTRACT DOCUMENTS INDICATE APPROXIMATE LOCATION OF EXISTING PIPING AND SYSTEM COMPONENTS AND ARE DIAGRAMMATIC IN NATURE.
7. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION, ROUTING AND SIZE OF THE PIPING AND COMPONENTS. NO EXTRA CHARGES WILL BE ACCEPTED BY THE BUILDING OWNER'S REPRESENTATIVE FOR WORK THAT HAS TO BE PERFORMED DUE TO THE PLUMBING CONTRACTOR'S FAILURE TO ADEQUATELY VERIFY EXISTING CONDITIONS.
8. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF THE BUILDING AND THE WORK OF OTHER TRADE CONTRACTORS WILL PERMIT. ALL CHANGES FROM DRAWINGS NECESSARY TO MAKE THE WORK OF EACH CONTRACTOR CONFORM TO THE BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADE CONTRACTORS SHALL BE DONE AT THE APPROPRIATE TRADE CONTRACTOR'S EXPENSE.
9. LOCATION OF ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY AND EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS SHALL BE DETERMINED AT THE SITE, SUBJECT TO REVIEW.
10. SHOULD THERE BE ANY DISCREPANCIES OR A QUESTION OF INTENT, REFER THE MATTER TO THE ARCHITECT FOR A DECISION BEFORE ORDERING ANY EQUIPMENT OR MATERIALS OR BEFORE STARTING ANY RELATED WORK.
11. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT, PARTITIONS, WALLS, AND GENERAL CONSTRUCTION.
12. SUBMIT SKETCHES INDICATING ANY DEVIATIONS FROM THE DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
13. WHERE WORK CONNECTS TO THAT OF ANOTHER TRADE, OR TO PIPING OR EQUIPMENT IN PLACE, TAKE MEASUREMENTS IN THE FIELD TO MAKE CONNECTING WORK COME TRUE AND LINE UP WITH THE ITEM BEING CONNECTED.
14. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES, MAKING ANY NECESSARY MODIFICATIONS INCLUDING OFFSETS TO PLUMBING WORK AT NO ADDITIONAL COST.
15. MINOR ITEMS AND ACCESSORIES OR DEVICES REASONABLY INFERABLE AS NECESSARY, TO THE COMPLETE AND PROPER INSTALLATION AND OPERATION OF ANY SYSTEM, SHALL BE PROVIDED BY THE TRADE CONTRACTOR FOR SUCH SYSTEM WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY THE SPECIFICATIONS OR DRAWINGS.
16. PLUMBING CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND INCLUDING ANY ITEMS NOT INDICATED ON THE DRAWINGS BUT NECESSARY FOR THE PROPER OPERATION OF THE PLUMBING SYSTEMS.
17. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST TO OWNER.
18. EACH MAJOR COMPONENT OF EQUIPMENT SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER AND RATING ON A PLATE SECURELY AFFIXED IN A CONSPICUOUS PLACE.
19. CODE RATINGS, LABELS OR OTHER DATA WHICH ARE DIE-STAMPED OR OTHERWISE AFFIXED TO THE SURFACE OF THE EQUIPMENT SHALL BE IN A VISIBLE LOCATION.
20. ALL EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS SHALL PERFORM WITH THE LEAST POSSIBLE NOISE AND VIBRATION CONSISTENT WITH ITS DUTY. QUIETNESS OF OPERATION OF ALL EQUIPMENT IS A REQUIREMENT. ANY EQUIPMENT, AS DETERMINED BY THE BUILDING OWNER'S REPRESENTATIVE, OR ENGINEER TO BE PRODUCING OBJECTIONABLE NOISE OR TRANSMITTING NOISE OR VIBRATION TO THE BUILDING SHALL BE REPAIRED OR REMOVED AND REPLACED.
21. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. CONTRACTOR SHALL PROVIDE HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE SPECIFIED OR REQUIRED. PROVIDE ALL TESTS REQUIRED BY LOCAL CODES.
22. SHOP DRAWINGS, PRODUCT DATA AND/OR SAMPLES SHALL BE SUBMITTED FOR ALL EQUIPMENT AS SPECIFIED OR SCHEDULED. SHOP DRAWING PLANS SHALL BE 1/4" SCALE AND SHALL INDICATE LAYOUT OF ALL EQUIPMENT AND PIPING, AS WELL AS ASSOCIATED SIZES.
23. PLUMBING CONTRACTOR SHALL REMOVE EXISTING PLUMBING EQUIPMENT AND MATERIALS AS SPECIFIED OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT TO PREPARE FOR THE NEW WORK. PLUMBING CONTRACTOR SHALL TAKE POSSESSION OF REMOVED EQUIPMENT AND MATERIALS AND REMOVE THEM FROM THE SITE PROMPTLY, EXCEPT AS SPECIFIED BELOW OR UNLESS OTHERWISE NOTED ON THE DRAWINGS.
24. ALL SALVAGEABLE MATERIAL AND EQUIPMENT, INCLUDING BUT NOT NECESSARILY LIMITED TO WATER HEATERS, GREASE TRAPS, PIPING, VALVES, ETC., SHALL BE REMOVED AND MAINTAINED IN AS GOOD CONDITION AS POSSIBLE AND TURNED OVER TO THE BUILDING OWNER'S REPRESENTATIVE. HOWEVER, IF THE BUILDING OWNER'S REPRESENTATIVE DECIDES ANY SUCH MATERIALS ARE OF NO VALUE TO THE BUILDING THEN THEY SHALL BECOME THE PROPERTY OF THE PLUMBING CONTRACTOR WHO SHALL REMOVE SUCH DISCARDED WORK FROM THE PREMISES AND DISPOSE OF SAME.
25. EXISTING EQUIPMENT OR SYSTEMS WHICH ARE SPECIFIED TO BE REPLACED BY NEW EQUIPMENT OR SYSTEMS SHALL NOT BE REMOVED FROM SERVICE UNTIL THE NEW EQUIPMENT OR SYSTEMS HAVE ACTUALLY ARRIVED AT THE PROJECT SITE.
26. ALL PERMITS, LICENSES, APPROVALS, AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE PLUMBING CONTRACTOR AT OWN EXPENSE.
27. REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND SPRINKLER DRAWINGS FOR ADDITIONAL DETAILS AND COORDINATION REQUIREMENTS.
28. IN GENERAL, ALL PIPING, AND SIMILAR ITEMS SHALL BE INSTALLED CONCEALED FROM VIEW ABOVE THE CEILING, IN PARTITIONS, SHAFTS, OR CHASES, UNLESS OTHERWISE INDICATED.
29. WHERE PIPES ARE LOCATED INSIDE PARTITIONS, OR FURRED OUT SPACES AND CHASES, OBTAIN INFORMATION AS TO THEIR EXACT LOCATION AND SIZE AND INSTALL WORK SO AS TO BE ENTIRELY CONCEALED IN THE ALLOTTED SPACE. IF CONFLICTS ARISE MAKING THIS IMPOSSIBLE, OBTAIN INSTRUCTIONS FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
30. INDICATE ON THE PLANS ALL PIPING, HANGERS, SUPPORTS, AND FITTINGS OF ANY KIND LOCATED WITHIN PLENUM CEILINGS SHALL BE NON-COMBUSTUIBLE MATERIAL OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN TWENTY-FIVE (25) AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN FIFTY (50) COMPLYING IN ACCORDANCE WITH ASTM E 84.
31. DRAIN, WASTE, VENT, AND WATER DISTRIBUTION SYSTEM SHALL BE PROPERLY SIZED IN ACCORDANCE WITH THE APPROPRIATE TABLES FOUND IN CHICAGO PLUMBING CODE 890 APPENDIX A.
32. ALL REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) ASSEMBLIES SHALL BE TESTED AND APPROVED BY A CROSS CONNECTION CONTROL DEVICE INSPECTOR (CCCDI) BEFORE INITIAL OPERATION, AND AT LEAST ANNUALLY THEREAFTER.
33. INDICATE ON THE PLANS THE REQUIRED REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED IN A DEDICATED WATER SUPPLY LINE TO EACH LOCATION WHERE SANITIZING CHEMICALS OR DETERGENTS WILL BE ASPIRATED OR PUSHED BY WATER PRESSURE INTO CLEANSING/SANITIZING OPERATION. INDICATE EXPLICITLY "SPILL-PROOF" OR PRESSURE VACUUM BREAKERS ARE PROHIBITED IN CHICAGO.
34. THE PLUMBING CONTRACTOR SHALL PROTECT ALL EXISTING BUILDING SURFACES, EQUIPMENT, AND FIXTURES FROM DAMAGE FROM THE CONSTRUCTION WORK FOR THIS PROJECT. ANY DAMAGE CAUSED BY THE PLUMBING CONTRACTOR SHALL BE REPAIRED AT THE PLUMBING CONTRACTOR'S EXPENSE.
35. THE PLUMBING CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE BUILDING OWNER'S REPRESENTATIVE REGARDING BUILDING RULES AND REGULATIONS INCLUDING WORKING HOURS, REFUSE DISPOSAL, SECURITY, INTERRUPTIONS OF BUILDING UTILITIES OR FUNCTIONS, OWNERSHIP OF SALVAGED MATERIALS AND ANY OTHER ITEM DEEMED TO BE OF MUTUAL INTEREST.
36. PLUMBING CONTRACTOR SHALL COMPLY WITH BASE BUILDING SPECIFICATIONS FOR ALL STANDARDS OF WORKMANSHIP REQUIRED FOR ALL NEW EQUIPMENT AND MATERIALS BEING INSTALLED.
37. IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO STORE HIS MATERIALS IN A MANNER THAT WILL MAINTAIN AN ORDERLY CLEAN APPEARANCE. IF STORED ON-SITE IN OPEN OR UNPROTECTED AREAS, ALL EQUIPMENT AND MATERIAL SHALL BE KEPT OFF THE GROUND BY MEANS OF PALLETS OR RACKS, AND COVERED WITH TARPAULINS. EQUIPMENT AND MATERIAL, IF LEFT OUT IN THE OPEN AND DAMAGED, SHALL BE REPAINTED OR OTHERWISE REFURBISHED AT THE DISCRETION OF THE BUILDING OWNER'S REPRESENTATIVE. EQUIPMENT AND MATERIAL IS SUBJECT TO REJECTION AND REPLACEMENT IF, IN THE OPINION OF THE ENGINEER OR MANUFACTURER, THE EQUIPMENT HAS DETERIORATED OR BEEN DAMAGED TO THE EXTENT THAT ITS IMMEDIATE USE IS QUESTIONABLE, OR THAT ITS NORMAL LIFE EXPECTANCY HAS BEEN CURTAILED.
38. PROVIDE ALL HOLES, SLEEVES, CUTTING, PATCHING AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING SHALL CONFORM TO THE FIRE RATING OF THE WALLS. PROPERLY SEAL ALL PENETRATIONS THROUGH BLOCK WALLS.
39. VOLTAGE FOR ALL EQUIPMENT SHALL BE VERIFIED WITH THE ELECTRICAL CONTRACTOR OF ALL EQUIPMENT AND BY THE PLUMBING CONTRACTOR PRIOR TO ORDERING.
40. ALL FINAL POWER (LINE VOLTAGE) WIRING AND CONNECTIONS OF ALL EQUIPMENT SHALL BE VERIFIED AND COORDINATED WITH THE ELECTRICAL AND PLUMBING CONTRACTOR PRIOR TO ORDERING OF EQUIPMENT.
41. CONTRACTOR SHALL ENSURE THAT ALL RISERS, AND PIPE PENETRATIONS, AND ALL OTHER FLOOR PENETRATIONS IN THE WORK ARE FIRE-STOPPED. CONTRACTOR SHALL BE REQUIRED TO FIRE STOP PENETRATIONS AND REPAIR FIRE STOP DAMAGE CAUSED BY ITS CONSTRUCTION. ALL WALLS SHALL BE FIREPROOFED AND FIRE STOPPED PER ALL APPLICABLE LAWS AND ALL LOCAL CODES.
42. THE PLUMBING CONTRACTOR SHALL REPAIR/REPLACE ANY FIREPROOFING REMOVED OFF OF BEAMS IN ORDER TO INSTALL, REPAIR, OR REMOVE ANY ITEMS INCLUDED IN THE PLUMBING CONTRACTOR'S SCOPE OF WORK.
43. FINAL INSPECTION AND TESTS SHALL BE MADE IN THE PRESENCE OF THE BUILDING OWNER'S REPRESENTATIVE BY THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION. ALL NEW EQUIPMENT SHALL BE CLEANED AND ADJUSTED AS REQUIRED TO OPERATE SATISFACTORILY AND WITNESSED BY BUILDING PERSONNEL. EACH CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, INSTRUMENTS, AND MISCELLANEOUS EQUIPMENT REQUIRED FOR TESTS.
44. PROVIDE COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE BUILDING OWNER'S REPRESENTATIVE IN THE OPERATION AND MAINTENANCE OF THE INSTALLED EQUIPMENT.
45. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT, AND WORKMANSHIP. ANY DEFECTIVE MATERIALS OR WORKMANSHIP AS WELL AS DAMAGE TO THE WORK OF ALL TRADES RESULTING FROM SAME SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR THE DURATION OF THE STIPULATED GUARANTEE PERIOD.
46. RUN NEW WASTE PIPING AS CLOSE AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB AND VENT PIPING AS CLOSE AS POSSIBLE TO SLAB ABOVE.
47. CONTRACTOR SHALL SUBMIT SKETCH FOR APPROVAL TO BUILDING MANAGEMENT PRIOR TO MAKING ANY REQUIRED BEAM PENETRATIONS.
48. DISRUPTION OF ANY EXISTING SERVICE SHALL BE COORDINATED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND IN A MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
49. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF PLUMBING FIXTURES.
50. CONTRACTOR SHALL SUBMIT SKETCH FOR APPROVAL TO BUILDING MANAGEMENT PRIOR TO MAKING ANY REQUIRED BEAM PENETRATIONS.
51. DISRUPTION OF ANY EXISTING SERVICE SHALL BE COORDINATED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND IN A MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
52. ANY EXISTING DOWNSPOUT, SOIL OR WASTE STACK, VENT OR WATER RISERS OR BRANCH PIPING FOUND TO BE IN DETERIORATED OR IRREPARABLE CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR DECISION FOR REPLACEMENT, AND THE EXTENT OF REPLACEMENT.
53. CONTACT BUILDING ENGINEER 24 HOURS IN ADVANCE PRIOR TO MAKING ANY FLOOR PENETRATIONS AND/OR INSTALLING ANY PIPING WITHIN ANOTHER TENANT SPACE OR A PUBLIC SPACE OF THE BUILDING.
54. ALL CORING MUST BE COORDINATED WITH THE EXISTING STRUCTURE. SONAR OR X-RAY MUST BE USED PRIOR TO CORING THROUGH POST TENSION SLAB. SONAR OR X-RAY MUST BE USED PRIOR TO CORING.

DEMOLITION NOTES:

1. ALL DEMOLITION WORK SHALL BE IN STRICT CONFORMITY WITH CHICAGO BUILDING CODE, CHICAGO PLUMBING CODE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
2. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE SITE PRIOR TO BID AND EXAMINE THE EXISTING CONDITIONS, DRAWINGS AND COORDINATE THE EXACT SCOPE OF WORK WITH THE ARCHITECT AND CONSTRUCTION MANAGER.
3. ALL EQUIPMENT, PIPING, ETC., TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO OR SALVAGE AS DIRECTED. DO NOT REMOVE FROM THE PREMISES WITHOUT APPROVAL.
4. THE EXISTING SYSTEM TO REMAIN SHALL BE LEFT IN PERFECT WORKING ORDER AT COMPLETION OF DEMOLITION WORK.
5. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED IN FIELD.
6. ALL PIPING TO BE REMOVED SHALL BE REMOVED BACK TO NEAREST STACK, RISER OR MAIN AND PLUGGED OR CAPPED.
7. REMOVE ALL ABANDONED AND/OR UNUSED PLUMBING PIPING DISCOVERED DURING DEMOLITION. THERE SHALL BE NO DEAD-ENDS IN ANY PIPING SYSTEM SHALL EXCEED A DEVELOPED LENGTH GREATER THAN 2'-0" IN LENGTH. PIPING THAT IS DEMOLISHED SHALL BE REMOVED BACK TO NEAREST ACTIVE MAIN OR RISER AND CAPPED.
8. DURING DEMOLITION ANY DAMAGES DISCOVERED IN EXISTING PIPING TO REMAIN SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND PLUMBING ENGINEER.
9. ALL EXISTING PIPING AND APPURTENANCES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. ANY DAMAGES INCURRED SHALL BE REPAIRED OR REPLACED AT NO COST BY THE PLUMBING CONTRACTOR.
10. DO NOT INTERRUPT ANY SERVICES OF THE EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT WRITTEN PERMISSION FROM THE BUILDING MANAGER. SUCH INTERRUPTIONS AND INTERFERENCE SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE DESIGNATED TIMES.
11. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME. OBTAIN WRITTEN APPROVAL FROM THE CONSTRUCTION MANAGER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING ANY WORK ON OVERTIME.
12. ALL PIPING REMOVAL SHALL INCLUDE REMOVAL OF ALL APPURTENANCES CONTAINED THEREIN SUCH AS VALVES, HANGERS, SUPPORTS, ETC. COMPLETE. CAPS SHALL BE INSTALLED AT ALL OPEN ENDS OF PIPING TO REMAIN AND SHALL BE OF SAME MATERIAL AND PRESSURE RATING AS EXISTING.
13. REMOVE RUBBISH FROM PREMISES AND SITE AT THE END OF EACH WORK DAY AND AS DIRECTED.THE PLUMBING CONTRACTOR SHALL COORDINATE, NOTIFY AND SCHEDULE ALL REMOVALS WITH THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH WORK.
14. THE PLUMBING CONTRACTOR SHALL INCLUDE ALL COST FOR REMOVALS AND RELOCATIONS IN THE CONTRACT.
15. TORCH CUTTING: BEFORE PROCEEDING WITH WORK, SUBMIT CERTIFICATE OF COMPLIANCE AND NOTIFY BUILDING FIRE WARDEN.

4B-013 - T3 Improvements & Supplemental Bagroom

Discipline	Scope Description	Task(s) to be Completed
Plumbing		
	Phasing	It is assumed that the existing bag claim will have to remain operational until new bag claim will be built and that portions of the existing systems will run simultaneously. Detailed phasing plan of cutovers within the bag room being developed by the BHS team and will need to be coordinated with the CMAR after the 60% submission. This will be further developed once the CMAR is on board.
	Program requirements	60% design assumes the following. (5) Kitchens, (2) by SSCP and (2) by the H/K concourse, and (1) in the new AA lounge. The (2) kitchens at the H/K concourse will require units on the roof Kitchenette in the USO space SSCP and restroom layouts per CDA revisions on 3/6. Mechanical will assume old screening machines without A/C units for worst case cooling loads. Electrical and plumbing will assume new screening machnies with A/C units for worst case electrical loads and plumbing requirements. Utilities for these items are shown on the drawings. Detailed coordination with other trades will occur after the 60% submission.
	Displaced program	It is assumed program will be relocated within the building as part of this project. MEP services for these areas are shown on the drawings, however, the details of the program relocation as are to be coordinated after the 60% submission.
	Rotunda and OGT coordination	Scope of this project ends at face of concourse. ROW for future OGT conveyors within T3 are part of the T3 scope. Details of the new work and relocation of any exisitng systems within the ROW of the future OGT conveyors within T3 are in progress at this time and will be further developed and coordinated after the 60% design.There are several existing mechanical utilities that will be impacted by the future OGT conveyor ROW and will require relocation.
	Existing Conditions	Drawings are based on site visits that have occurred as of 3/8 and have not included invasive surveys to validate all existing conditions. Additional invasive surveys will be required to be performed by the contractor who will provide a report of findings prior to starting any work.
	Asset management tagging.	New equipment is being tagged using the lastest version of the asset management tags as discussed with CDA/CCA as of 12/19/22. This version is still being reviewed by the CDA and may change at a later date. Further coordination with CDA will be required after the 60% submission
	Equipment pads	New equipment is to be provided with equipment pads per CDA specifications. Pads not yet shown on drawings and to be coordinated after the 60% submission.
	Utility routing	New and relocated utility mains (duct work, piping, and conduits) are shown but not yet coordinated with architectural, structural, or BHS elements. It is anticipated that some of the routings shown may change to resolve clashes. Coordination to take place after the 60% submission.
	Asbestos discovery and remediaton	Asbestos discovery and remediation are not anticipated as part of the scope of this project. It is assumed that the CDA will perform a study and remediation prior to the start of work for this project.
	Existing storm drain connections	New floor drains are being provided in the new bag make-up room at the east end of T3. Existing drawings show an underground storm drain line on the land side of T3. It is assumed that this line exists and that the new drains can be tied into it. This will have to be confirmed once a full survey of the area is recieved.

1 of 1

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JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

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PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

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NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

PLUMBING NOTES, GRAPHIC KEYS, ABBREVIATIONS

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SHEET NUMBER: **P0.01** VOLUME: **2**

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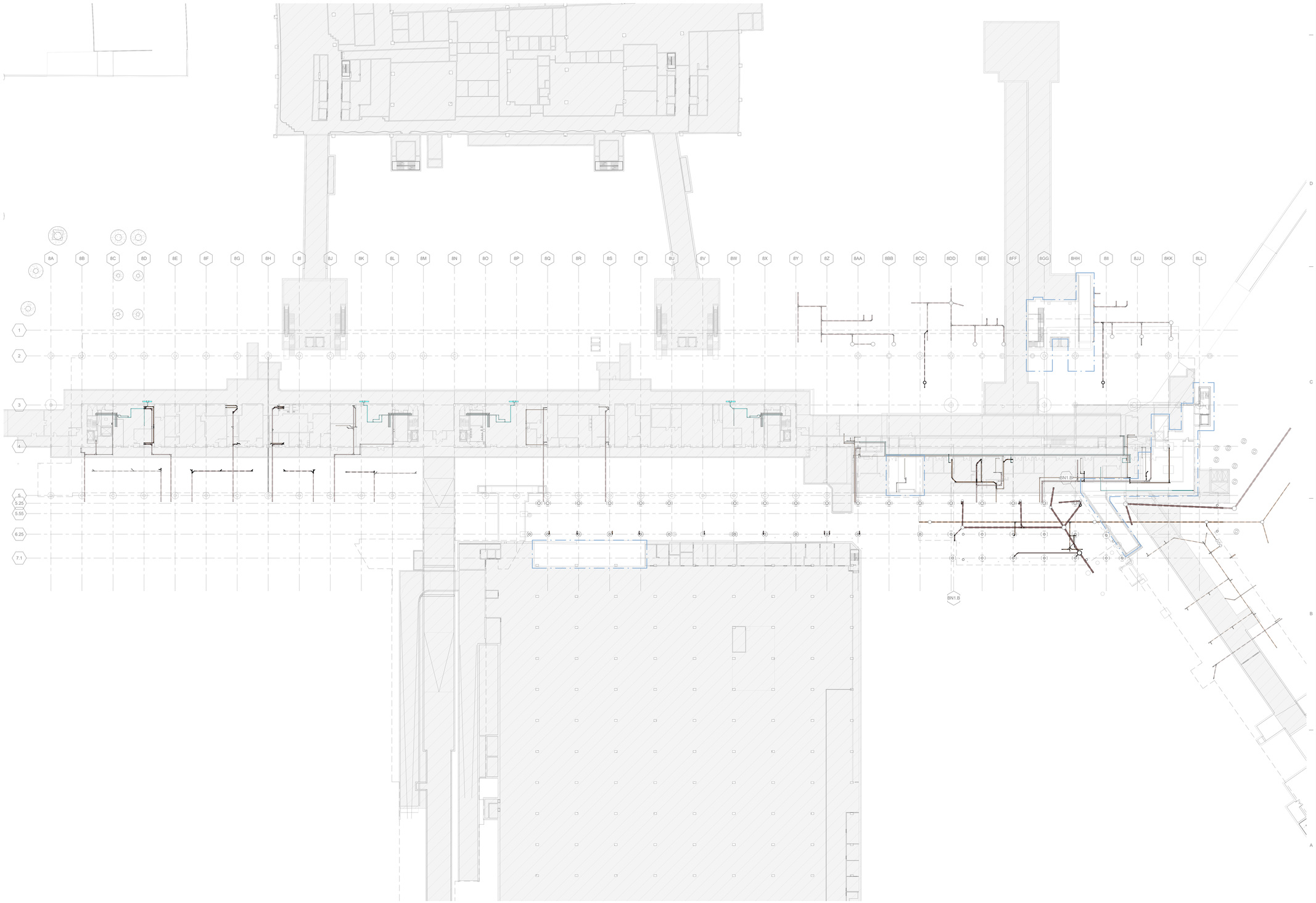

1A OVERALL PLUMBING PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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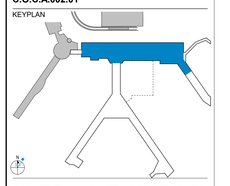

OVERALL PLUMBING PLAN - BASEMENT LEVEL

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SHEET NUMBER **P1.2.01** VOLUME: **2**

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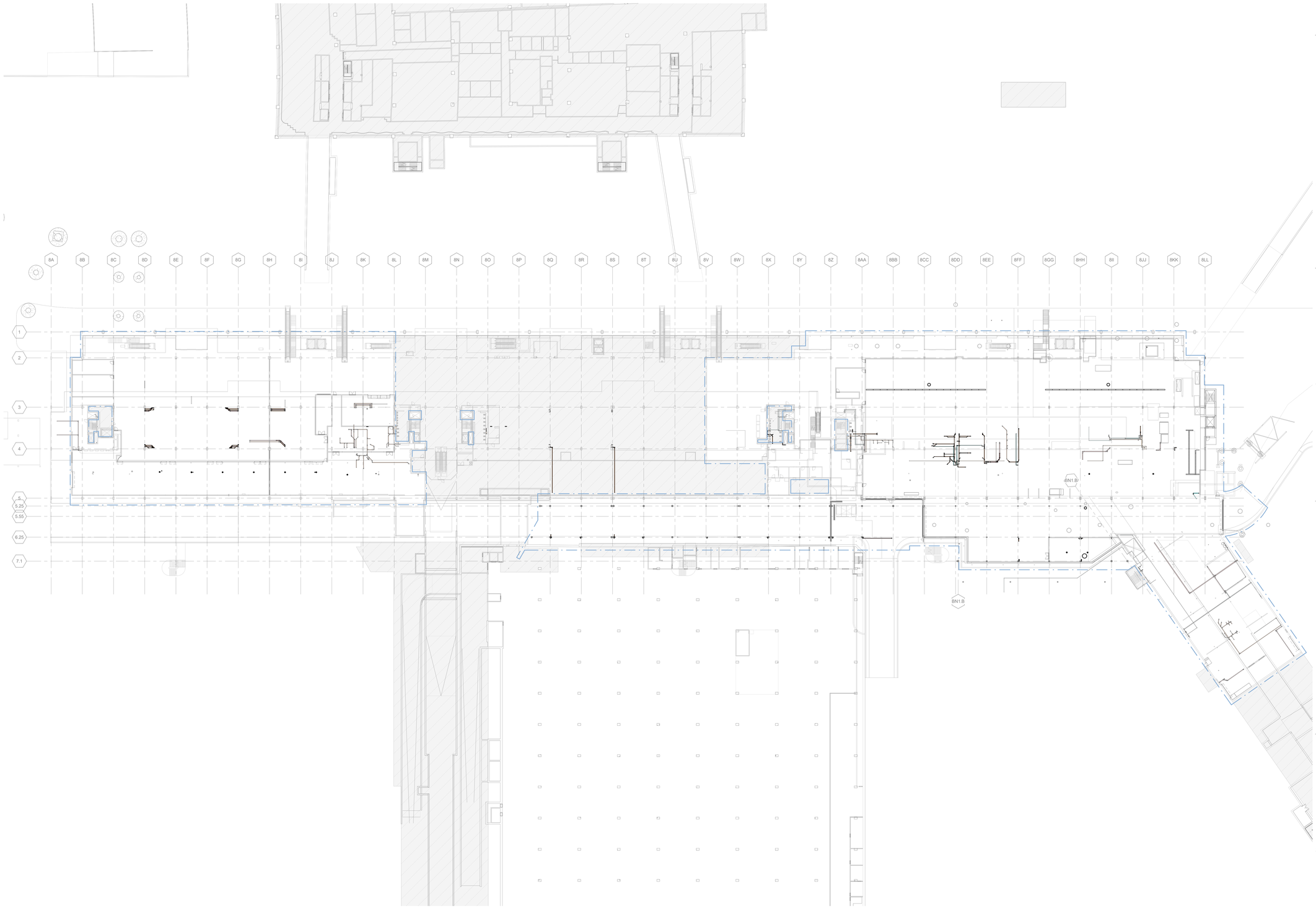

1A OVERALL PLUMBING PLAN - LOWER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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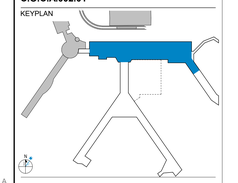

OVERALL PLUMBING PLAN - LOWER LEVEL

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SHEET NUMBER VOLUME: **2**

P1.2.02

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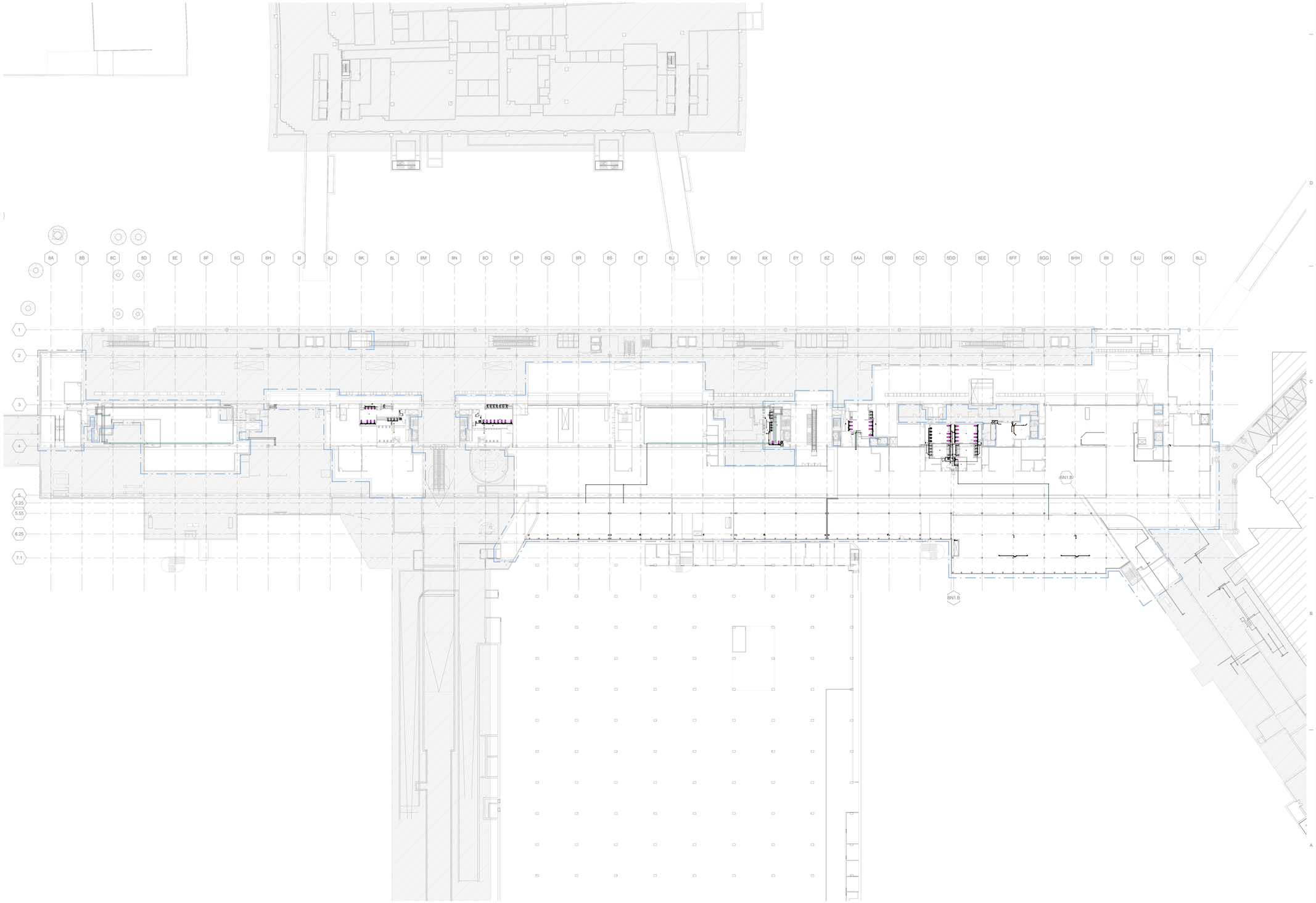

1A OVERALL PLUMBING PLAN - UPPER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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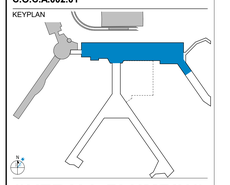
KEYPLAN



OVERALL PLUMBING PLAN - UPPER LEVEL

DRAWN BY: **Author** CHECKED BY: **JM**
SHEET NUMBER **P1.2.03** VOLUME: **2**

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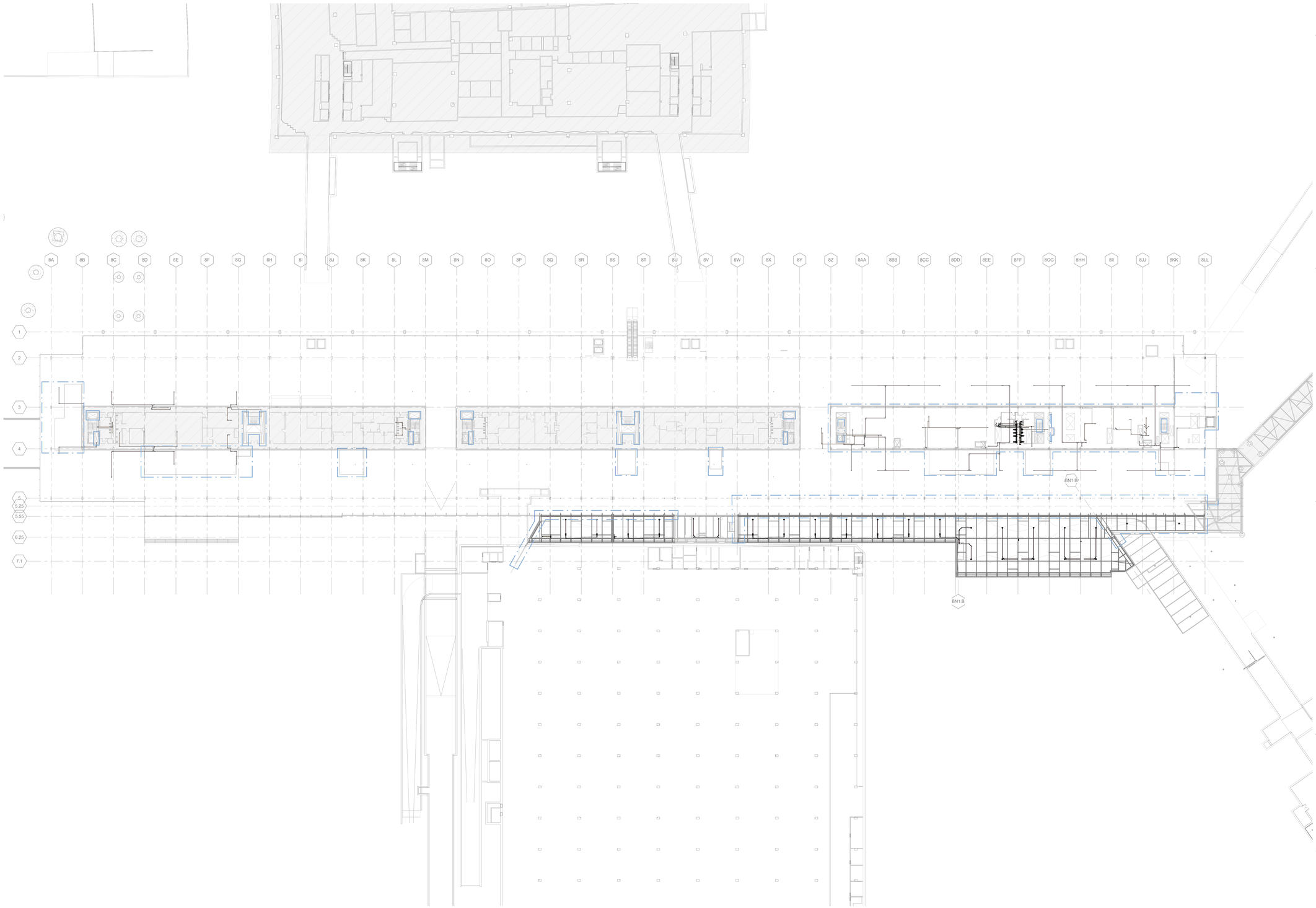

1A OVERALL PLUMBING PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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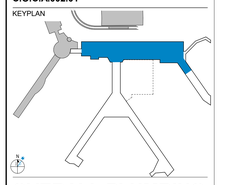

OVERALL PLUMBING PLAN - MEZZANINE LEVEL

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SHEET NUMBER **P1.2.04** VOLUME: **2**

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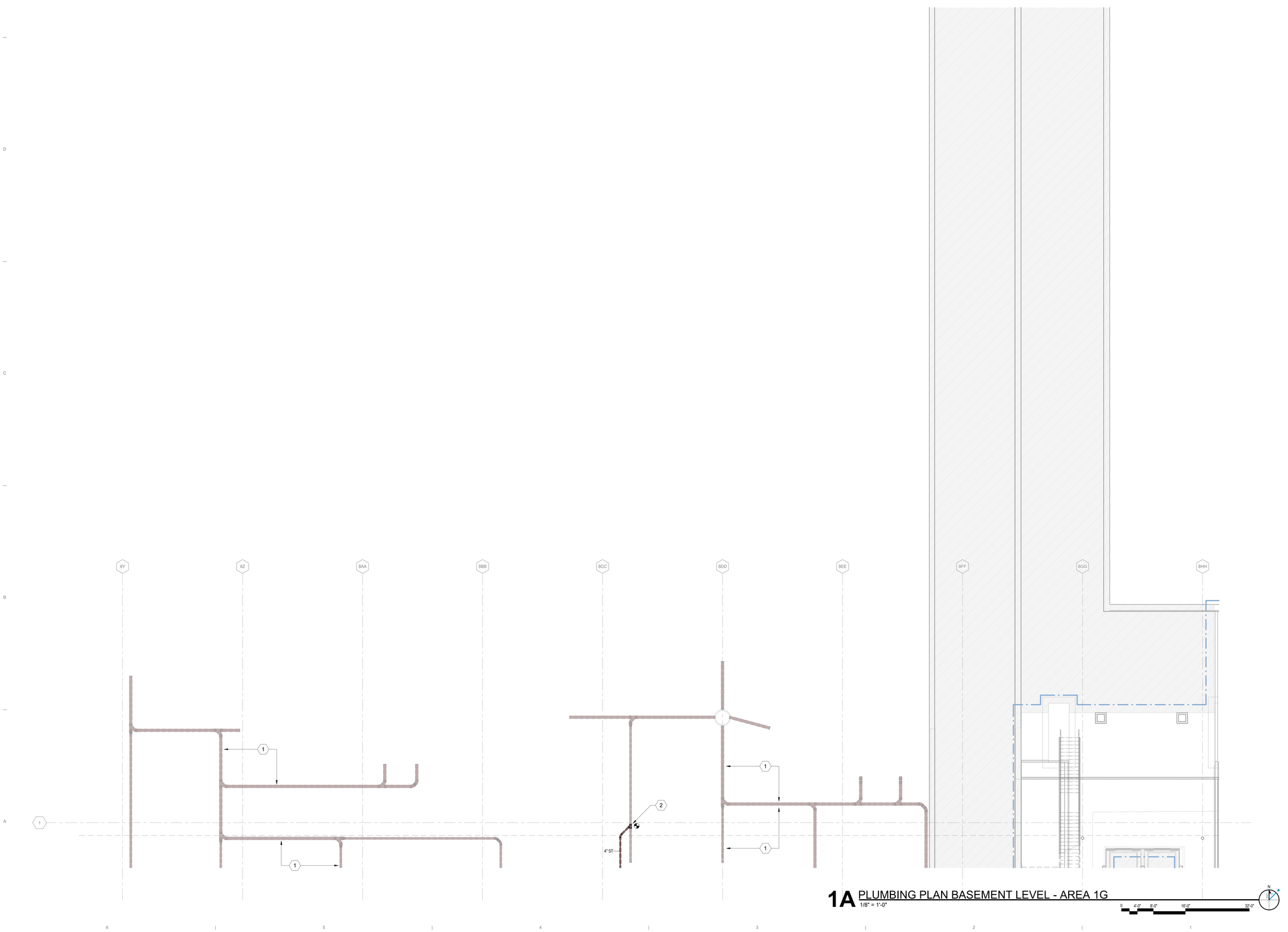
KEY NOTES:

1. EXISTING STORM DRAIN UNDERGROUND PIPING. VERIFY LOCATION, SIZE AND ELEVATION IN FIELD.
2. CONNECT NEW 4" STORM DRAIN PIPE TO EXISTING.



1A PLUMBING PLAN BASEMENT LEVEL - AREA 1G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
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MAYOR

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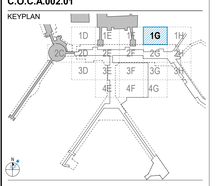

PLUMBING PLAN BASEMENT LEVEL - AREA 1G

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SHEET NUMBER
P2.2.01.1G

VOLUME: **2**

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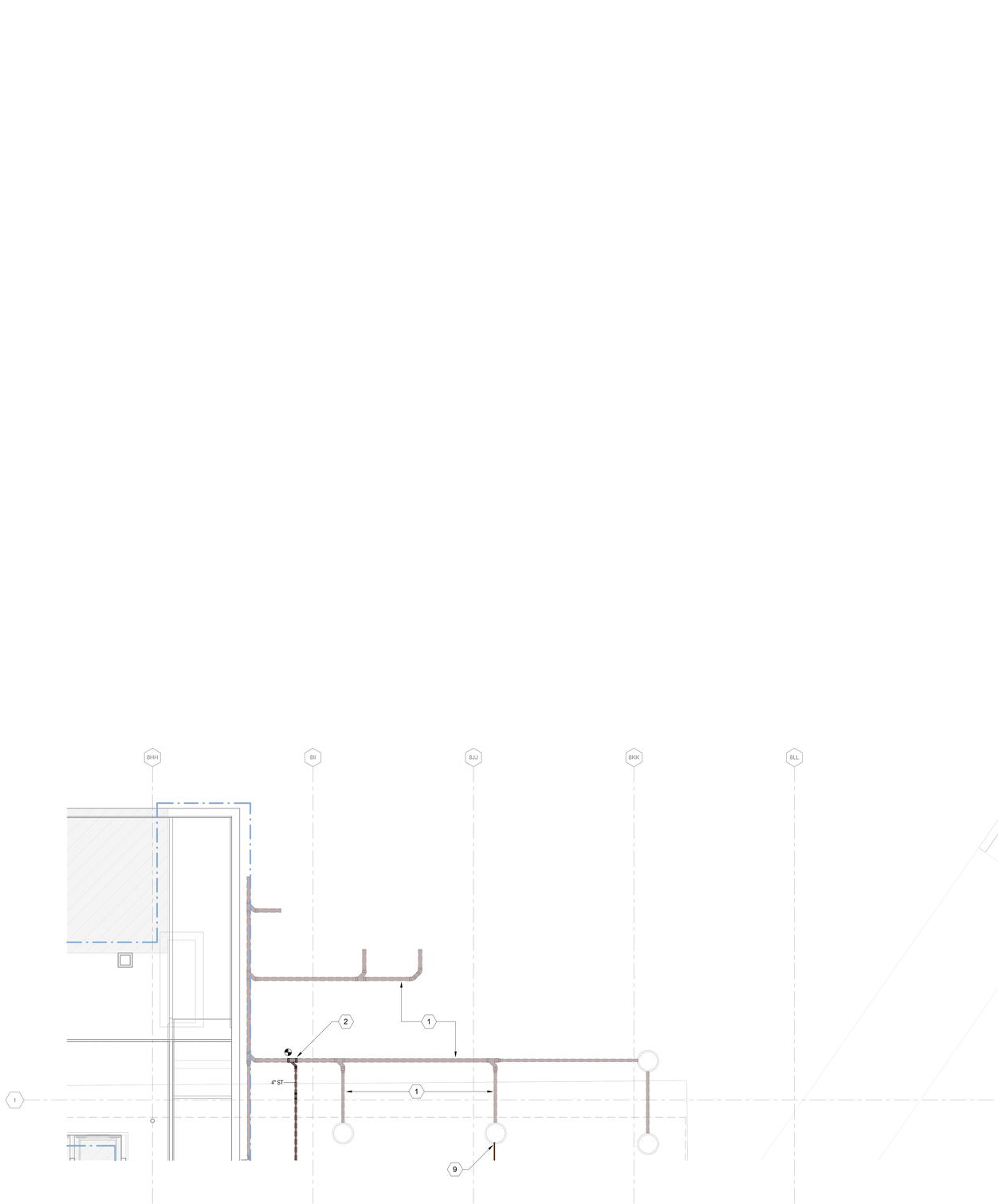

1A PLUMBING PLAN BASEMENT LEVEL - AREA 1H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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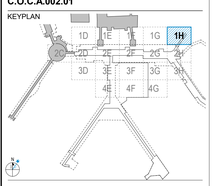

PLUMBING PLAN BASEMENT LEVEL - AREA 1H

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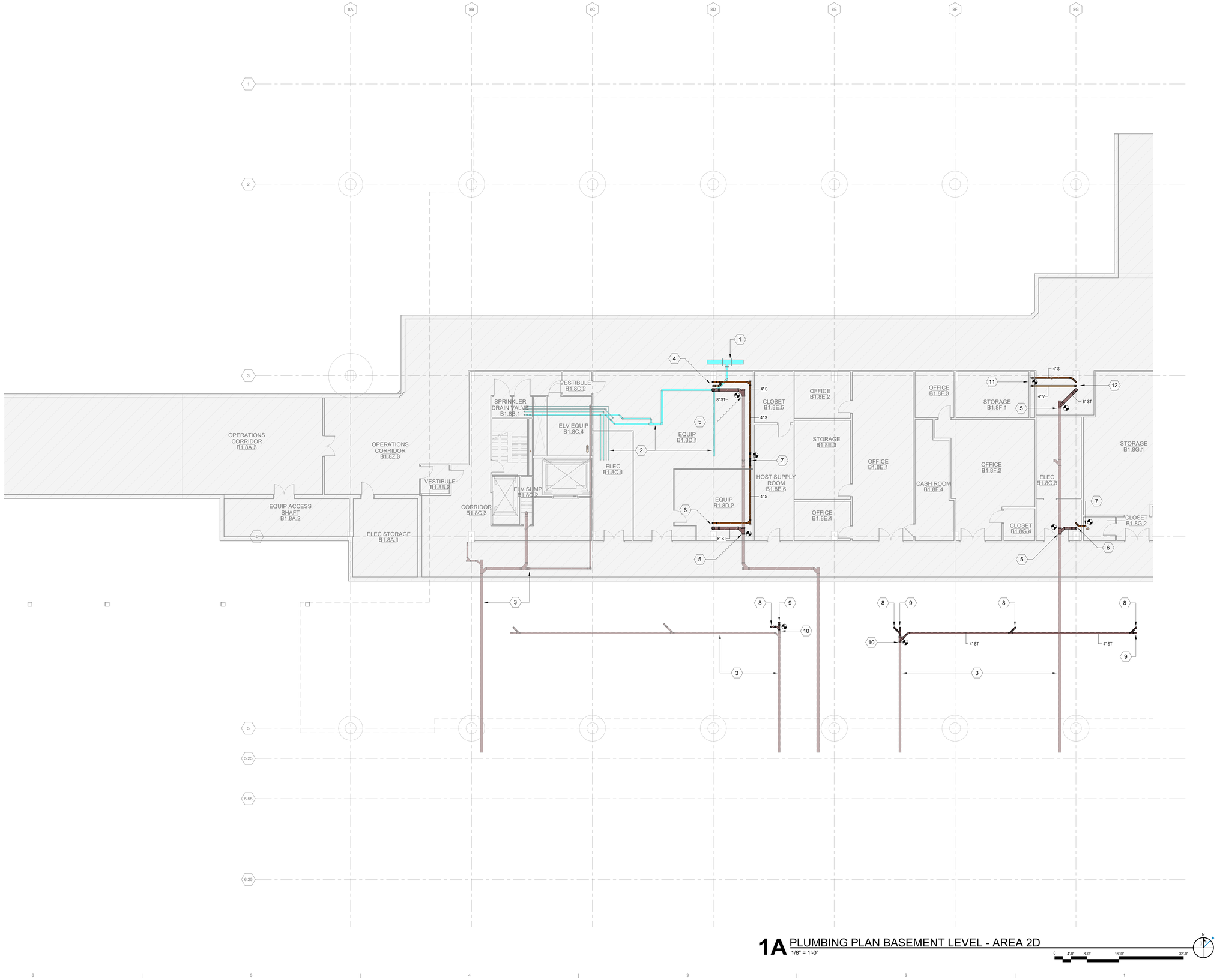
KEY NOTES:

1. EXISTING DOMESTIC COLD WATER CONNECTION TO WATER MAIN IN THE RING TUNNEL.
2. EXISTING DOMESTIC WATER LINES TO REMAIN.
3. EXISTING STORM DRAIN LINES TO REMAIN.
4. 8"ST, 4" S&V UP TO LOWER LEVEL.
5. CONNECT NEW 8" STORM DRAIN PIPE TO EXISTING. VERIFY SIZE, LOCATION AND ELEVATION IN FIELD.
6. 6"ST AND 4"S UP TO LOWER LEVEL.
7. 4"S DOWN AND CONNECT TO EXISTING. VERIFY SIZE AND LOCATION IN FIELD.
8. 4"ST UP TO NEW AREA DRAIN.
9. 4"ST UP TO NEW FLOOR CLEANOUT.
10. CONNECT NEW 6"ST PIPE TO EXISTING. VERIFY SIZE, LOCATION AND ELEVATION IN FIELD.
11. 4" S&V DOWN AND CONNECT TO EXISTING. VERIFY SIZE AND LOCATION IN FIELD.
12. 6"ST, 4" S&V UP TO LOWER LEVEL.



1A PLUMBING PLAN BASEMENT LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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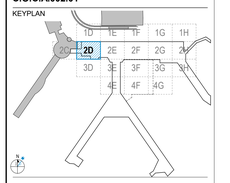

PLUMBING PLAN BASEMENT LEVEL - AREA 2D

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SHEET NUMBER — VOLUME: **2**

P2.2.01.2D

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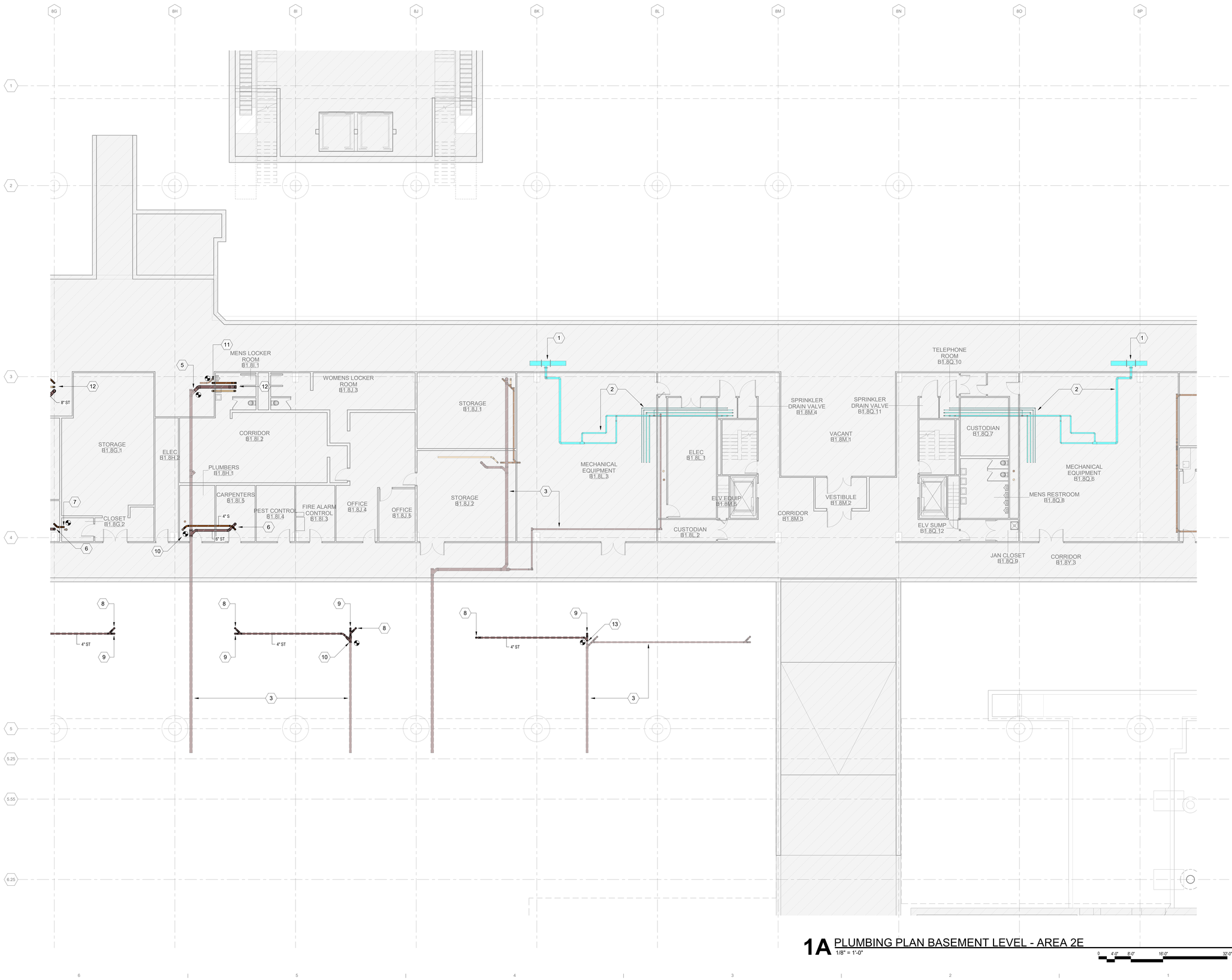
9. 4"ST UP TO NEW FLOOR CLEANOUT.
10. CONNECT NEW 6"ST AND 4"S PIPES TO EXISTING. VERIFY SIZE, LOCATION AND ELEVATION IN FIELD.
11. 4" S&V DOWN AND CONNECT TO EXISTING. VERIFY SIZE AND LOCATION IN FIELD.
12. 6"ST, 4" S&V UP TO LOWER LEVEL.
13. CONNECT NEW 4"ST PIPE TO EXISTING. VERIFY SIZE, LOCATION AND ELEVATION IN FIELD



1A PLUMBING PLAN BASEMENT LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
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REVISION

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ISSUANCE **60% DESIGN**
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PHASE **DD**
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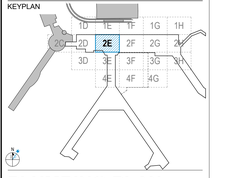
C.O.C.A.002.01

KEYPLAN



PLUMBING PLAN BASEMENT LEVEL - AREA 2E

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER **P2.2.01.2E** VOLUME: **2**

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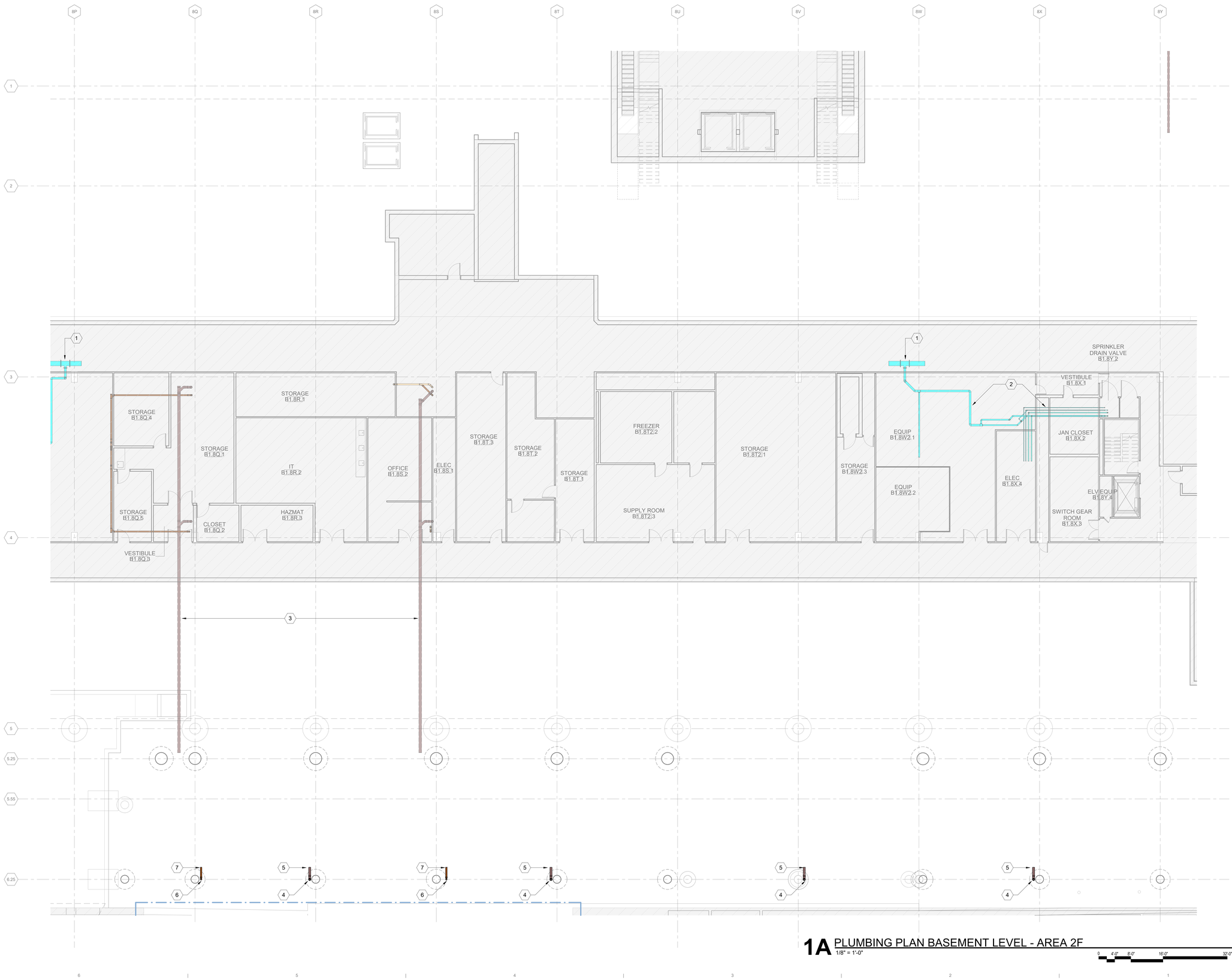
KEY NOTES:

1. EXISTING DOMESTIC COLD WATER CONNECTION TO WATER MAIN IN THE RING TUNNEL.
2. EXISTING DOMESTIC WATER LINES TO REMAIN.
3. EXISTING STORM DRAIN LINES TO REMAIN.
4. 4"ST UP TO LOWER LEVEL.
5. 6" UNDERGROUND STORM DRAIN PIPE. SEE CIVIL DRAWINGS FOR CONTINUATION.
6. 4" S UP TO LOWER LEVEL
7. 4" UNDERGROUND SANITARY. SEE CIVIL DRAWINGS FOR CONTINUATION.



1A PLUMBING PLAN BASEMENT LEVEL - AREA 2F
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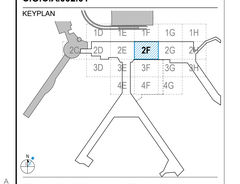

PLUMBING PLAN BASEMENT LEVEL - AREA 2F

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SHEET NUMBER VOLUME: **2**

P2.2.01.2F

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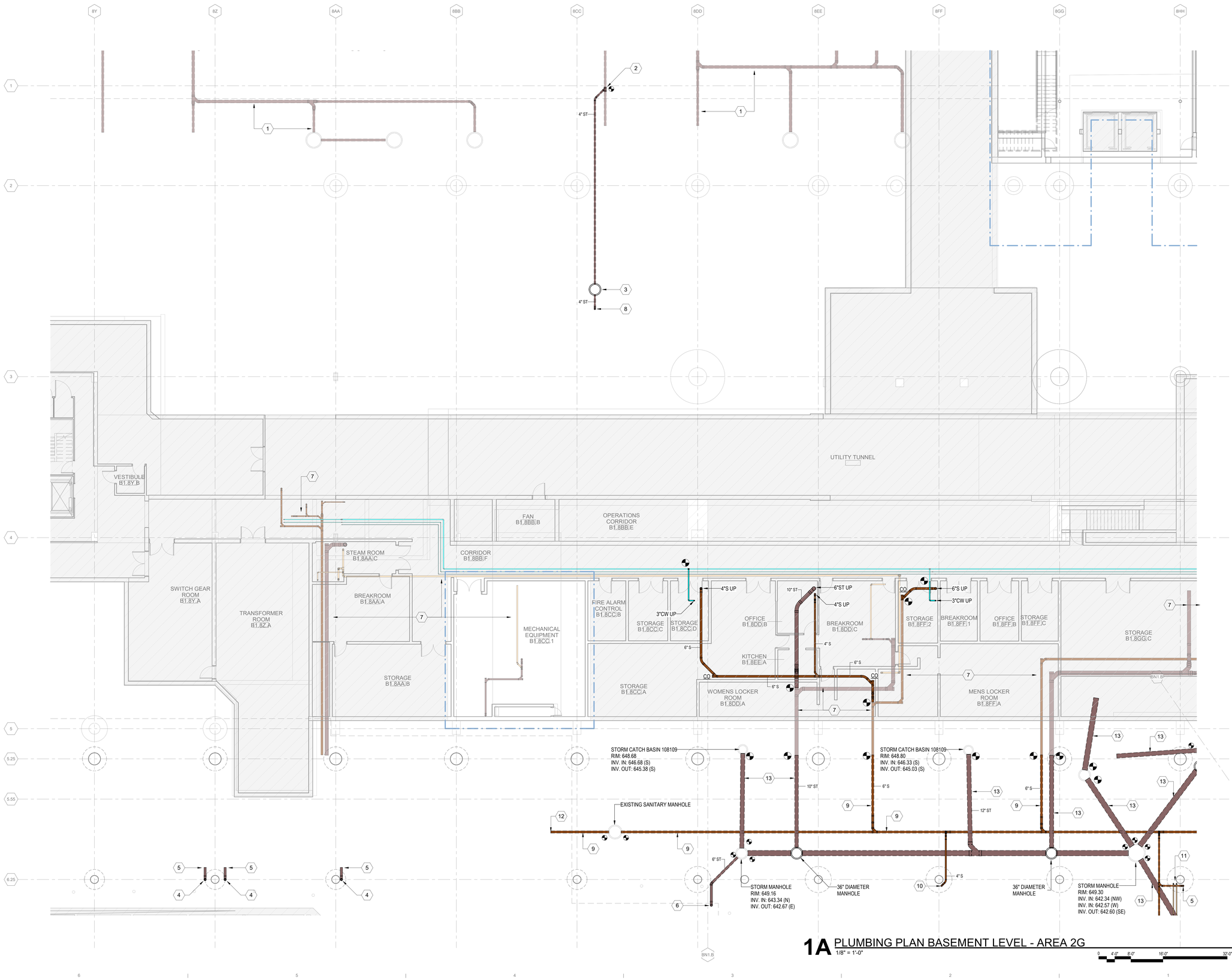
KEY NOTES:

1. EXISTING STORM DRAIN UNDERGROUND PIPING.
2. CONNECT NEW 4" STORM DRAIN PIPE TO EXISTING. VERIFY LOCATION, SIZE AND ELEVATION IN FIELD.
3. 36" CATCH BASIN WITH SOLID HEAVY DUTY COVER.
4. 4"ST UP TO LOWER LEVEL.
5. 6" UNDERGROUND STORM DRAIN PIPE. SEE CIVIL DRAWINGS FOR CONTINUATION.
6. 6"ST UP TO LOWER LEVEL.
7. EXISTING PLUMBING PIPING TO REMAIN.
8. 4"ST UP TO TRENCH DRAIN OUTLET.
9. REPLACE EXISTING UNDERGROUND VITRIFIED CLAY PIPE WITHIN BUILDING FOOTPRINT WITH NEW CAST IRON PIPING. VERIFY EXISTING PIPE INVERTS IN FIELD.
10. 4"S UP TO LOWER LEVEL.
11. TWO 2"V UP TO LOWER LEVEL.
12. EXTEND NEW SANITARY PIPING TO 5'-0" BEYOND THE BUILDING PERIMETER FOR EXTENSION BY CIVIL. SEE UTILITY SITE PLAN FOR CONTINUATION.
13. REPLACE EXISTING UNDERGROUND REINFORCED CONCRETE PIPE WITHIN BUILDING FOOTPRINT WITH NEW CAST IRON PIPING. VERIFY EXISTING PIPE INVERTS IN FIELD.



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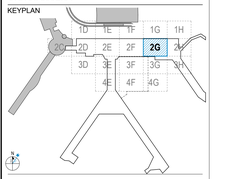

PLUMBING PLAN BASEMENT LEVEL - AREA 2G

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SHEET NUMBER **P2.2.01.2G** VOLUME: **2**

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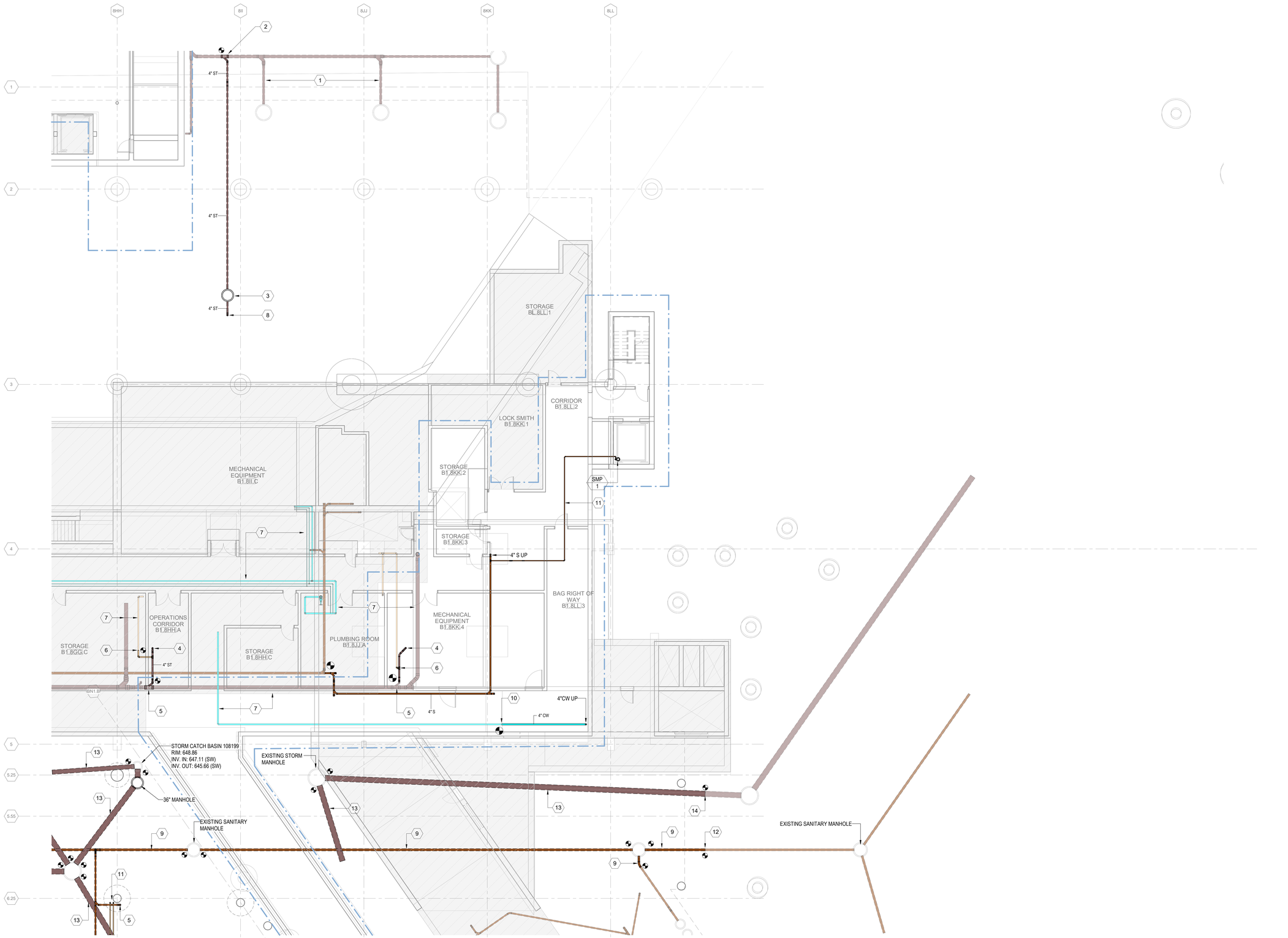
KEY NOTES:

1. EXISTING STORM DRAIN UNDERGROUND PIPING.
2. CONNECT NEW 4" STORM DRAIN PIPE TO EXISTING. VERIFY PIPE SIZE, LOCATION AND ELEVATION IN FIELD.
3. 36" CATCH BASIN WITH SOLID HEAVY DUTY COVER.
4. 4"ST UP TO NEW AREA DRAIN.
5. CONNECT NEW 4"ST PIPE TO EXISTING 8" STORM DRAIN LINE. VERIFY LOCATION, SIZE AND ELEVATION IN FIELD.
6. RECONNECT NEW 3"V PIPE TO EXISTING. VERIFY LOCATION, SIZE AND ELEVATION IN FIELD.
7. EXISTING PLUMBING PIPING TO REMAIN.
8. 4"ST UP TO TRENCH DRAIN OUTLET.
9. REPLACE EXISTING UNDERGROUND VITRIFIED CLAY PIPE WITHIN BUILDING FOOTPRINT WITH NEW CAST IRON PIPING. VERIFY EXISTING PIPE INVERTS IN FIELD.
10. RECONNECT NEW 4"CW PIPE TO EXISTING WATER MAIN. VERIFY LOCATION, SIZE AND ELEVATION IN FIELD.
11. CONNECT ELEVATOR SUMP PUMP 2" DISCHARGE TO TOP OF SANITARY PIPING. VERIFY FINAL LOCATION IN FIELD.
12. EXTEND NEW SANITARY PIPING TO 5'-0" BEYOND THE BUILDING PERIMETER FOR EXTENSION BY CIVIL. SEE UTILITY SITE PLAN FOR CONTINUATION.
13. REPLACE EXISTING UNDERGROUND REINFORCED CONCRETE PIPE WITHIN BUILDING FOOTPRINT WITH NEW CAST IRON PIPING. VERIFY EXISTING PIPE INVERTS IN FIELD.
14. EXTEND NEW STORM PIPING TO 5'-0" BEYOND THE BUILDING PERIMETER FOR EXTENSION BY CIVIL. SEE UTILITY SITE PLAN FOR CONTINUATION.



1A PLUMBING PLAN BASEMENT LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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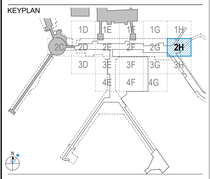
KEYPLAN



PLUMBING PLAN BASEMENT LEVEL - AREA 2H

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER VOLUME: **2**

P2.2.01.2H

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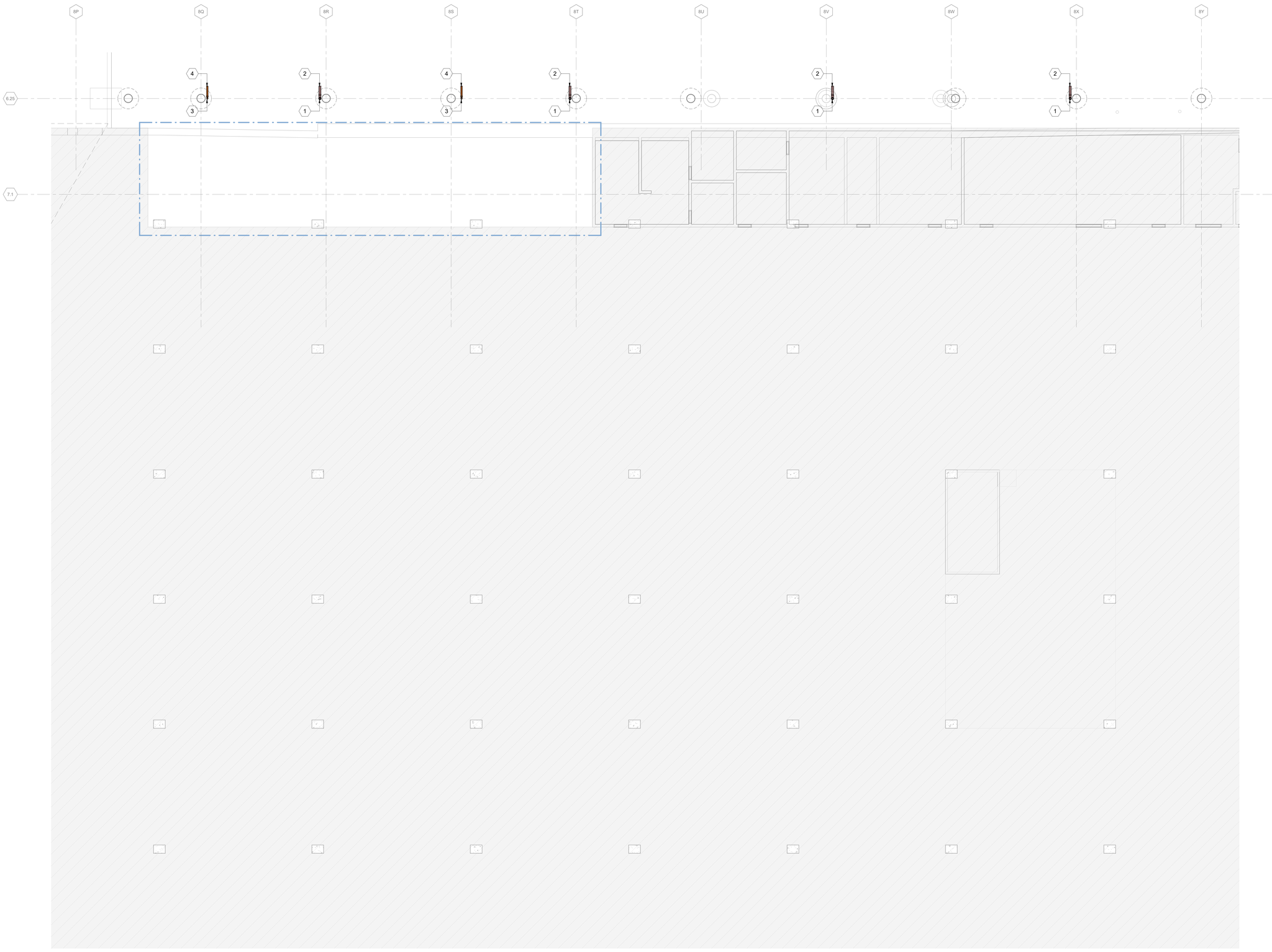
KEY NOTES:

1. 4"ST UP TO LOWER LEVEL.
2. 6" UNDERGROUND STORM DRAIN PIPE. SEE CIVIL DRAWINGS FOR CONTINUATION.
3. 4" S UP TO LOWER LEVEL. PROVIDE HEAT TRACE AND 2" INSULATION FOR SANITARY STACK.
4. 4" UNDERGROUND SANITARY PIPE. SEE CIVIL DRAWINGS FOR CONTINUATION.



1A PLUMBING PLAN BASEMENT LEVEL - AREA 3F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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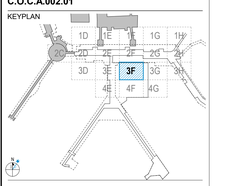

PLUMBING PLAN BASEMENT LEVEL - AREA 3F

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SHEET NUMBER VOLUME: **2**

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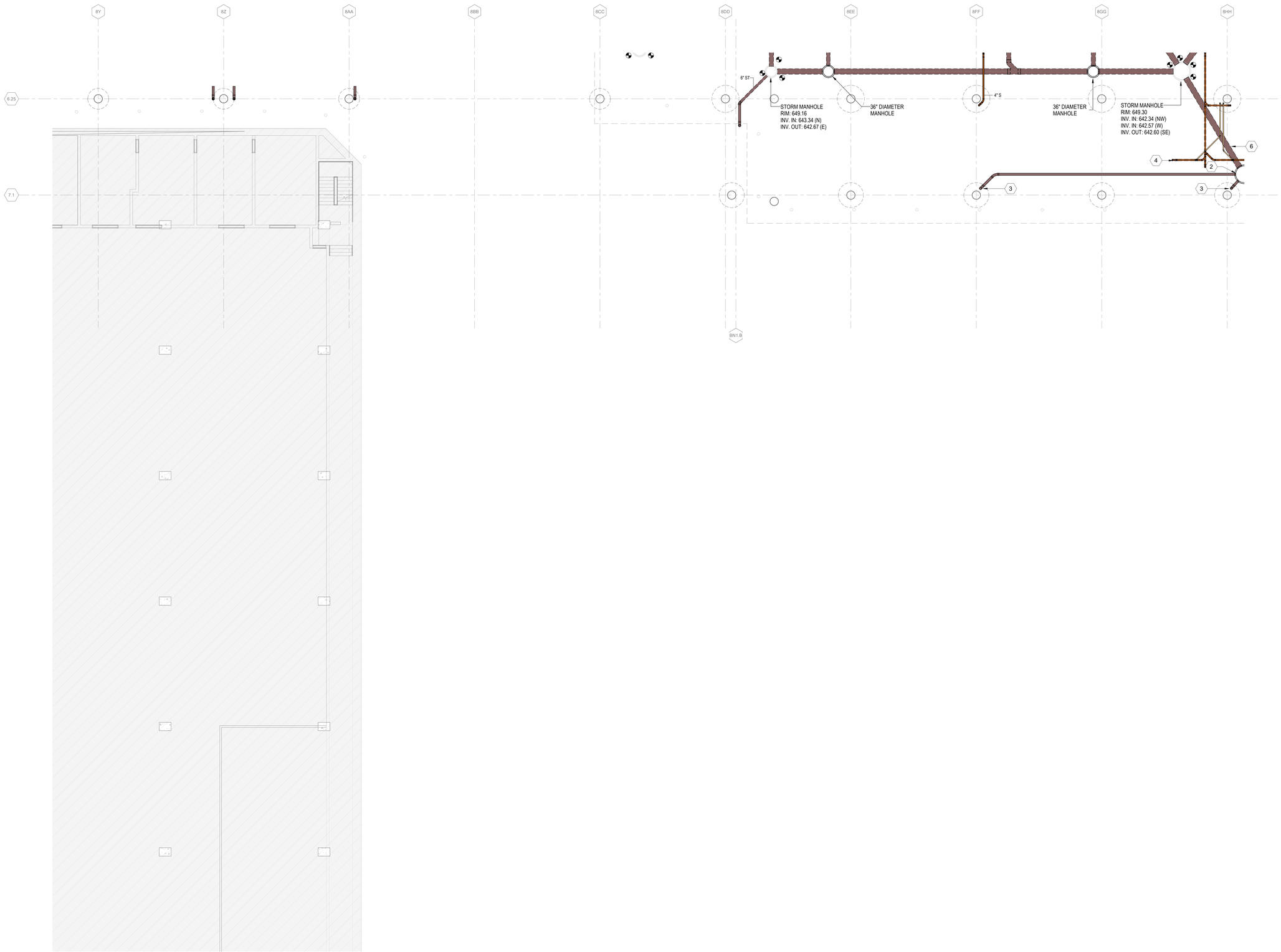
KEY NOTES:

1. 4"ST UP TO LOWER LEVEL.
2. 6" UNDERGROUND STORM DRAIN PIPE CONNECTED TO NEW 48" DIAMETER MANHOLE
3. 6"ST UP TO LOWER LEVEL.
4. 4" TRAPPED AND VENTED (2" VENT) S UP TO FD
5. 4" S UP
6. REPLACE EXISTING REINFORCED CONCRETE PIPE WITH CAST IRON PIPING.



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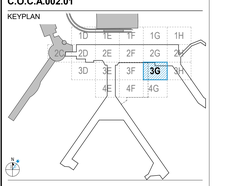

PLUMBING PLAN BASEMENT LEVEL - AREA 3G

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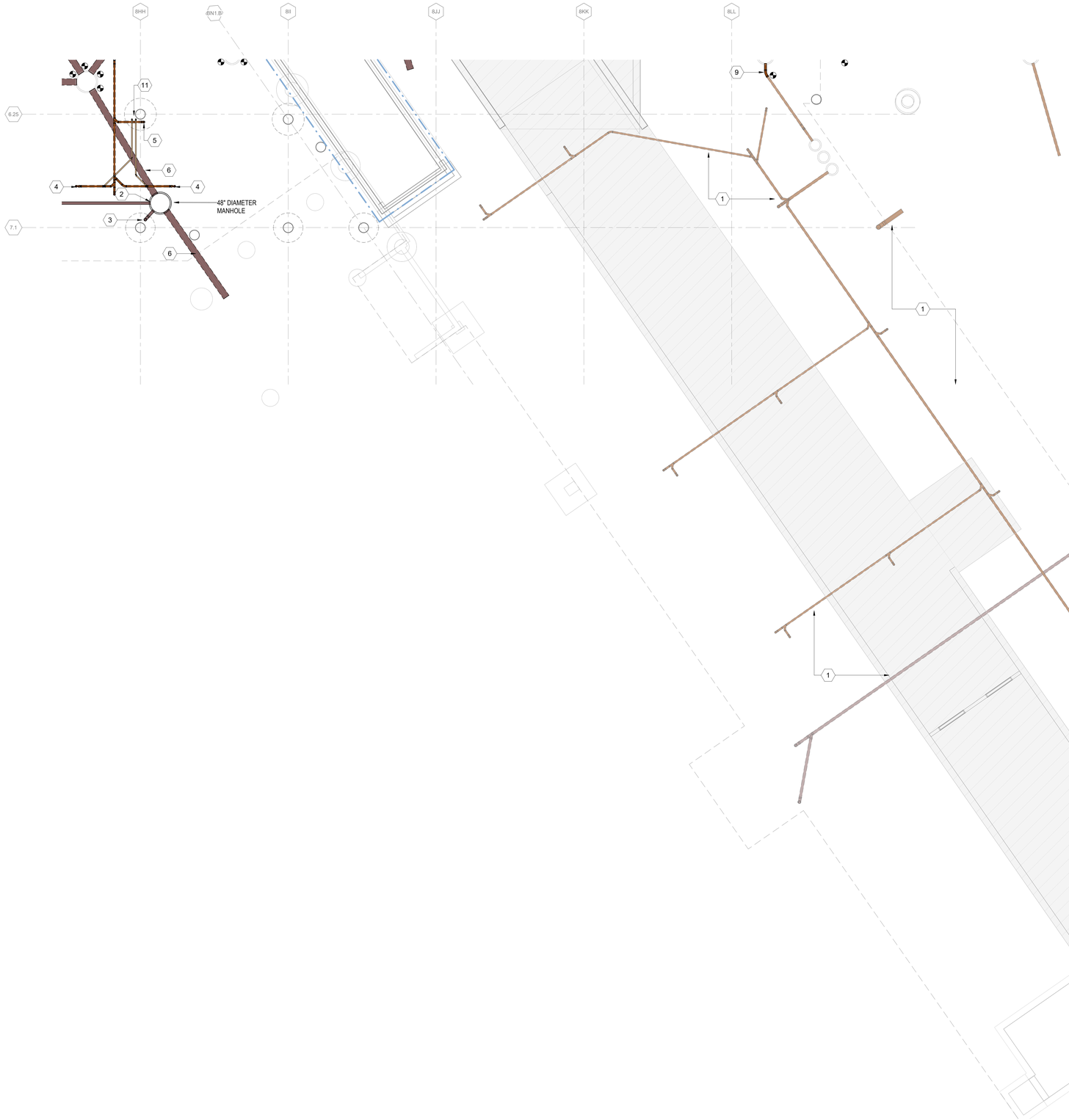
KEY NOTES:

1. EXISTING PLUMBING PIPING TO REMAIN.
2. 6" UNDERGROUND STORM DRAIN PIPE CONNECTED TO NEW 48" DIAMETER MANHOLE
3. 6"ST UP TO LOWER LEVEL.
4. 4" TRAPPED AND VENTED (2" VENT) S UP TO FD
5. 4" S UP
6. REPLACE EXISTING REINFORCED CONCRETE PIPE WITH CAST IRON PIPING.



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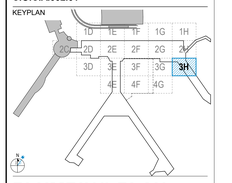

PLUMBING PLAN BASEMENT LEVEL - AREA 3H

DRAWN BY: **Author** CHECKED BY: **Checker**

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VOLUME: **2**

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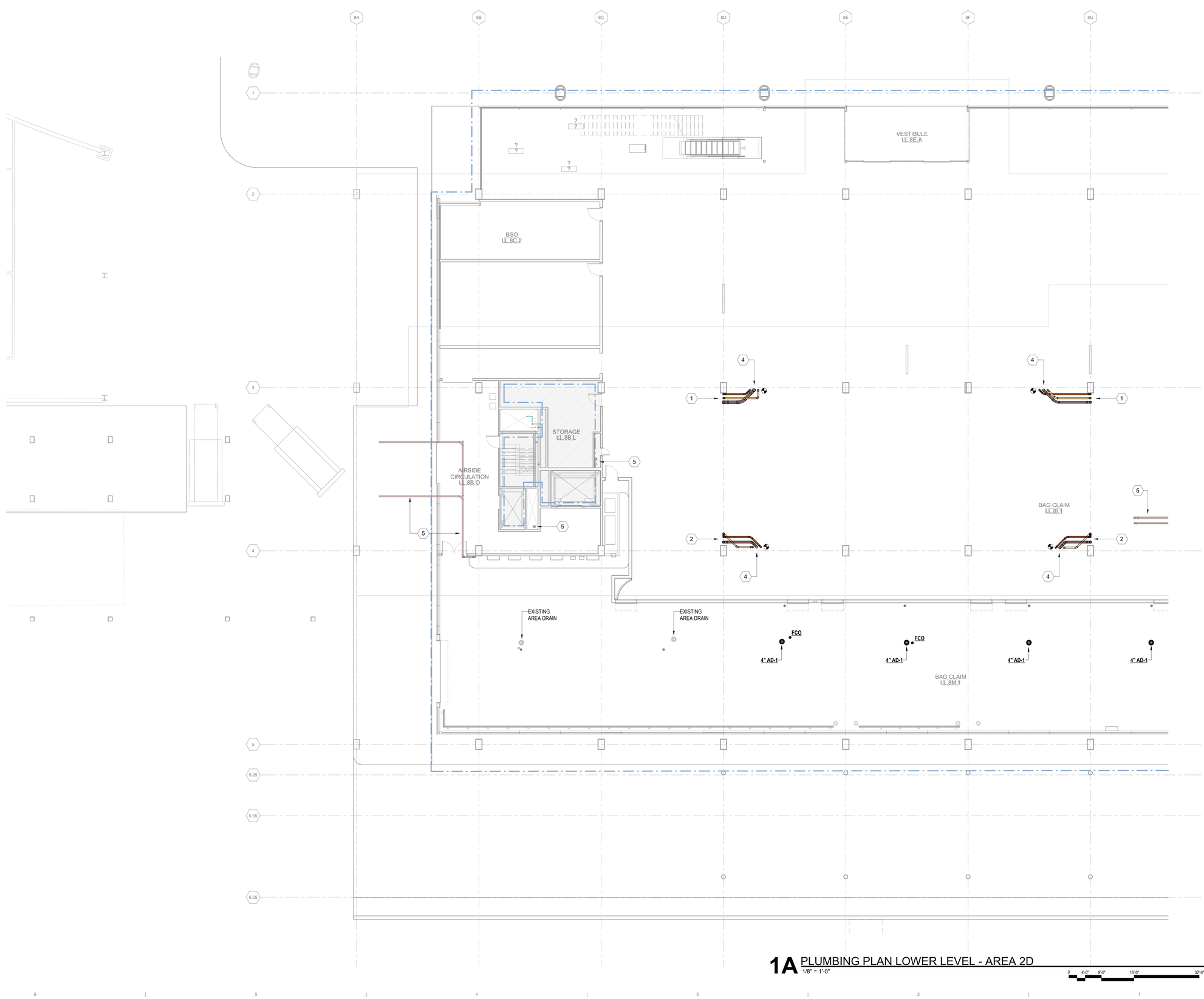
KEY NOTES:

1. 8"ST, 4" S&V DOWN TO BASEMENT LEVEL.
2. 8"ST, 4"S DOWN TO BASEMENT LEVEL.
3. 6"ST AND 4"S UP TO LOWER LEVEL.
4. 8"ST, 4" S&V UP AND CONNECT TO EXISTING STACKS. VERIFY SIZE AND LOCATION IN FIELD.
5. EXISTING PLUMBING PIPING TO REMAIN.



1A PLUMBING PLAN LOWER LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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REVISION

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ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

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REVISION
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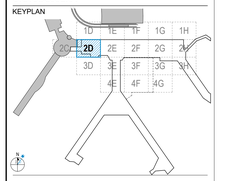
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



PLUMBING PLAN LOWER LEVEL - AREA 2D

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CHECKED BY: **Checker**

SHEET NUMBER
P2.2.02.2D

VOLUME: **2**

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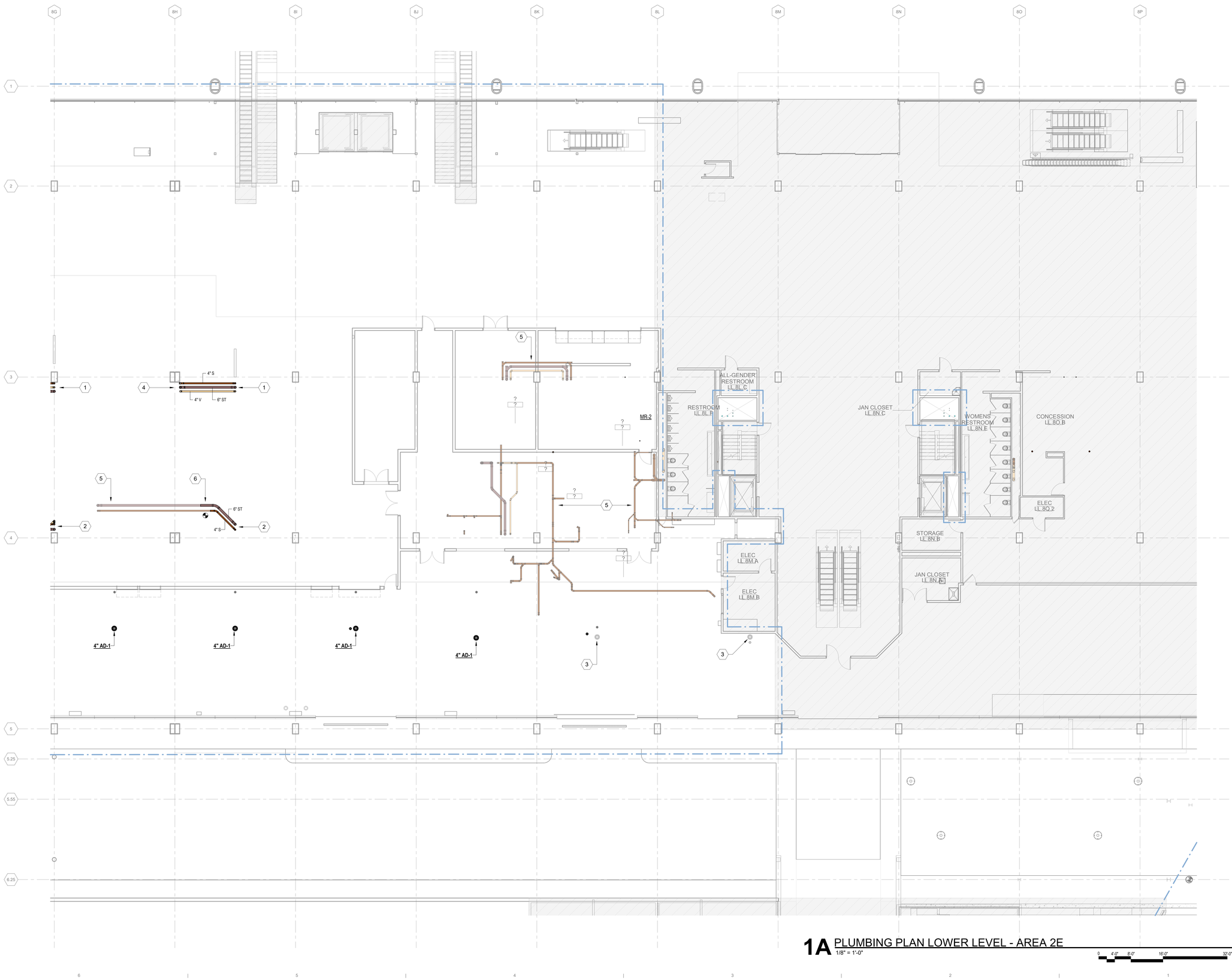
KEY NOTES:

1. 6"ST, 4" S&V DOWN TO BASEMENT LEVEL.
2. 6"ST, 4"S DOWN TO BASEMENT LEVEL.
3. EXISTING AREA DRAIN TO REMAIN.
4. 8"ST, 4" S&V UP AND CONNECT TO EXISTING STACKS. VERIFY SIZE AND LOCATION IN FIELD.
5. EXISTING PLUMBING PIPING TO REMAIN.
6. RECONNECT 6"ST AND 4"S PIPES TO EXISTING IN CEILING SPACE. VERIFY SIZE AND LOCATION IN FIELD.



1A PLUMBING PLAN LOWER LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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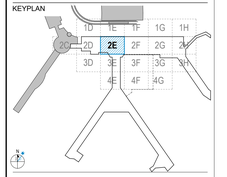
KEYPLAN



PLUMBING PLAN LOWER LEVEL - AREA 2E

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SHEET NUMBER **P2.2.02.2E** VOLUME: **2**

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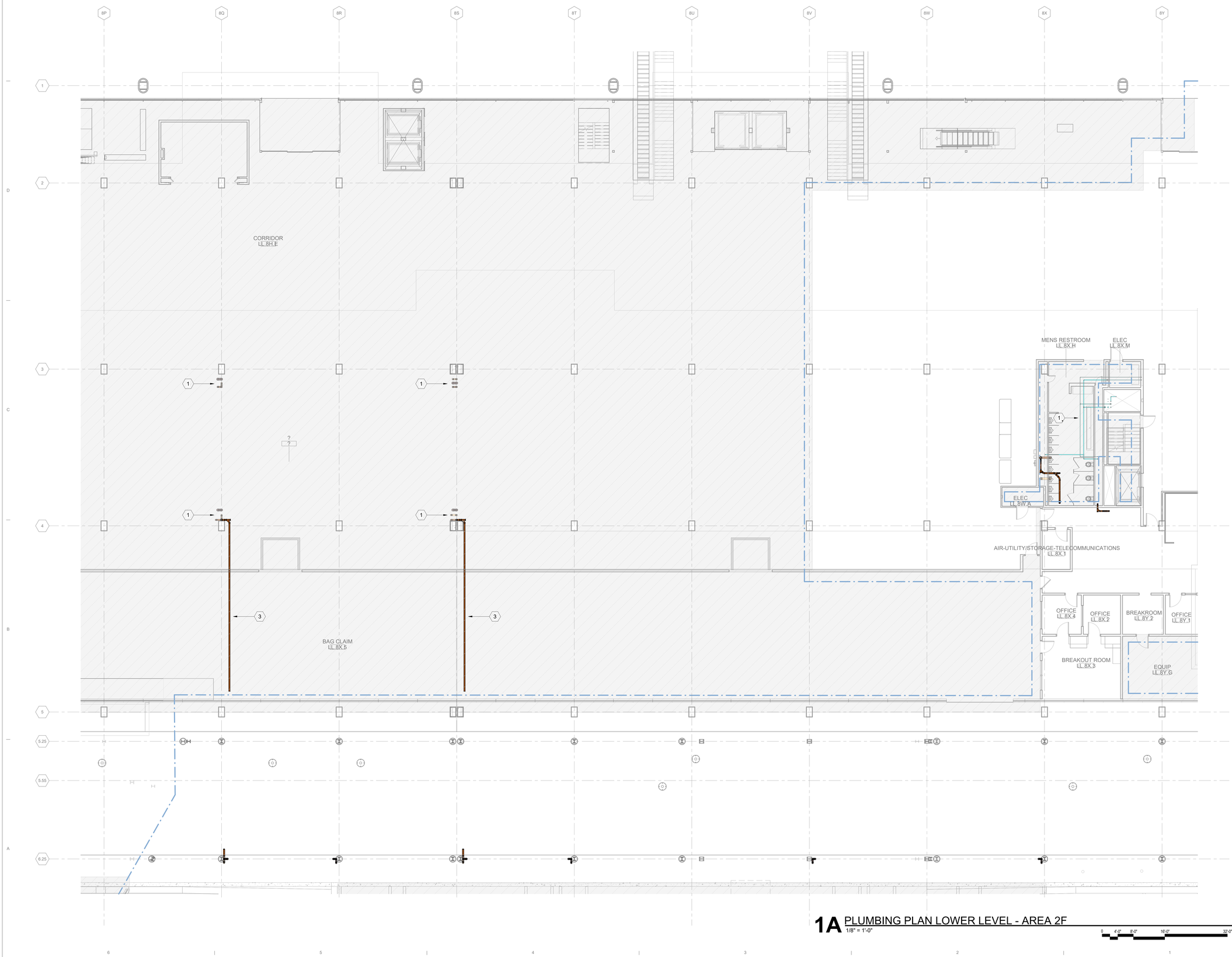
KEY NOTES:

1. EXISTING PLUMBING PIPING TO REMAIN.
2. 4"ST DOWNSPOUT WITH OFFSETS. ABOVE THE GRADE AND BELOW THE UPPER FLOOR. PROVIDE CLEANOUT ABOVE THE GRADE. PROVIDE HEAT TRACING WITH 2" FIBERGLASS INSULATION AND METAL JACKET FOR EXPOSED PIPING.
3. EXTEND 4" SANITARY PIPE TO POTENTIAL COMMERCIAL AREA. PROVIDE VENT PIPE AT THE END OF THE SANITARY LINE, RUN PIPE UP TO UPPER LEVEL AND CONNECT TO ACTIVE VENT LINE.



1A PLUMBING PLAN LOWER LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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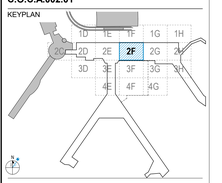

PLUMBING PLAN LOWER LEVEL - AREA 2F

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SHEET NUMBER
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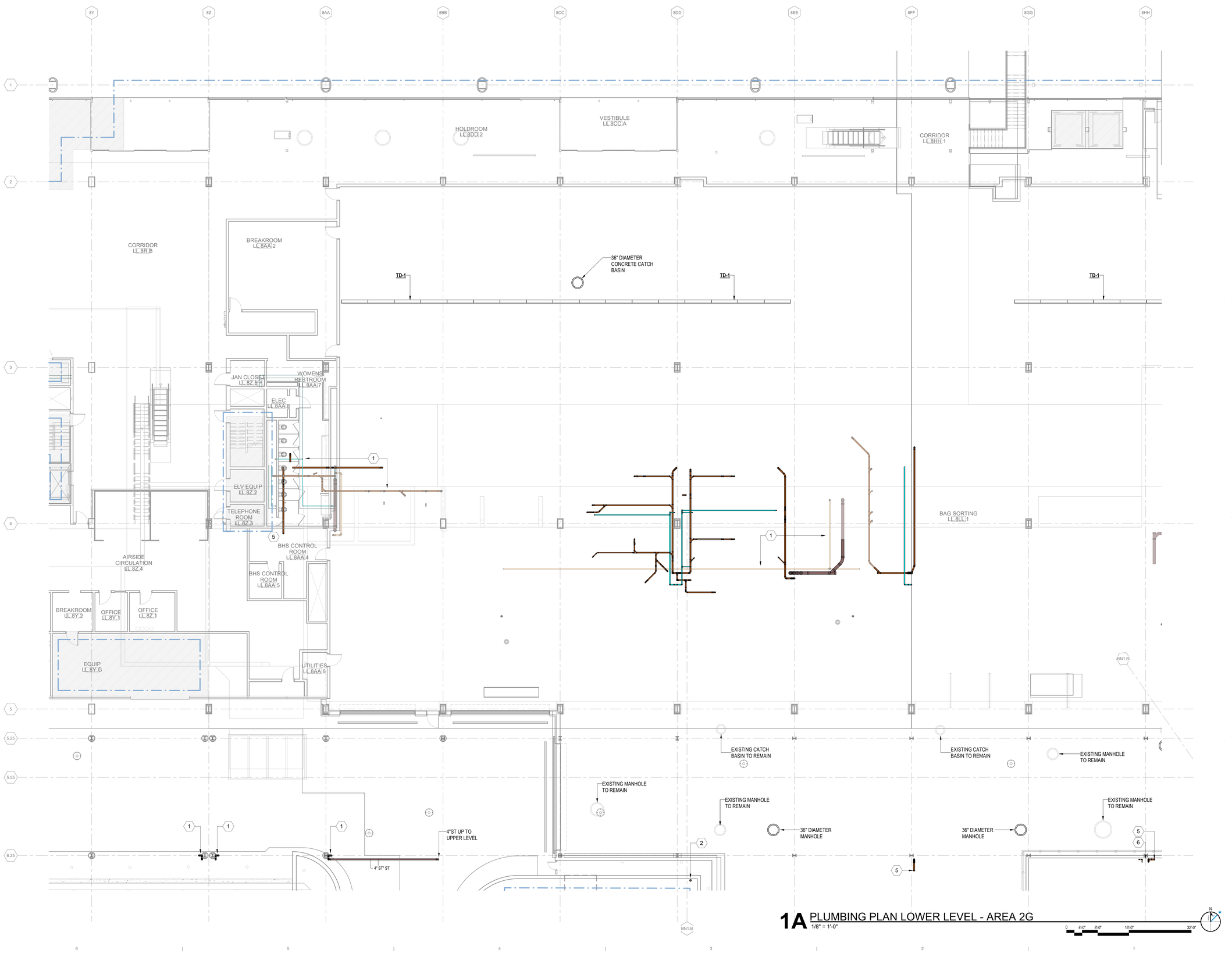
KEY NOTES:

1. EXISTING PLUMBING PIPING AT THE CEILING SPACE TO REMAIN.
2. 4"ST DOWNSPOUT WITH OFFSETS ABOVE THE GRADE AND BELOW THE UPPER FLOOR. PROVIDE CLEANOUT ABOVE THE GRADE. PROVIDE HEAT TRACING WITH 2" FIBERGLASS INSULATION AND METAL JACKET FOR EXPOSED PIPING.
3. 6"ST DOWNSPOUT. PROVIDE CLEANOUT ABOVE THE GRADE. PROVIDE HEAT TRACING WITH 2" FIBERGLASS INSULATION AND METAL JACKET FOR EXPOSED PIPING.
4. EXTEND 4" SANITARY PIPE TO POTENTIAL COMMERCIAL AREA. PROVIDE VENT PIPE AT THE END OF THE SANITARY LINE, RUN PIPE UP TO UPPER LEVEL AND CONNECT TO ACTIVE VENT LINE.
5. 4" SANITARY STUB FOR FUTURE.
6. 2" V UP, 4" V UP, 4" S DN



1A PLUMBING PLAN LOWER LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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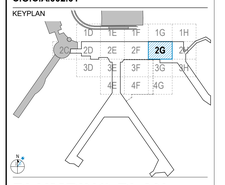

PLUMBING PLAN LOWER LEVEL - AREA 2G

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER: **P2.2.02.2G** VOLUME: **2**

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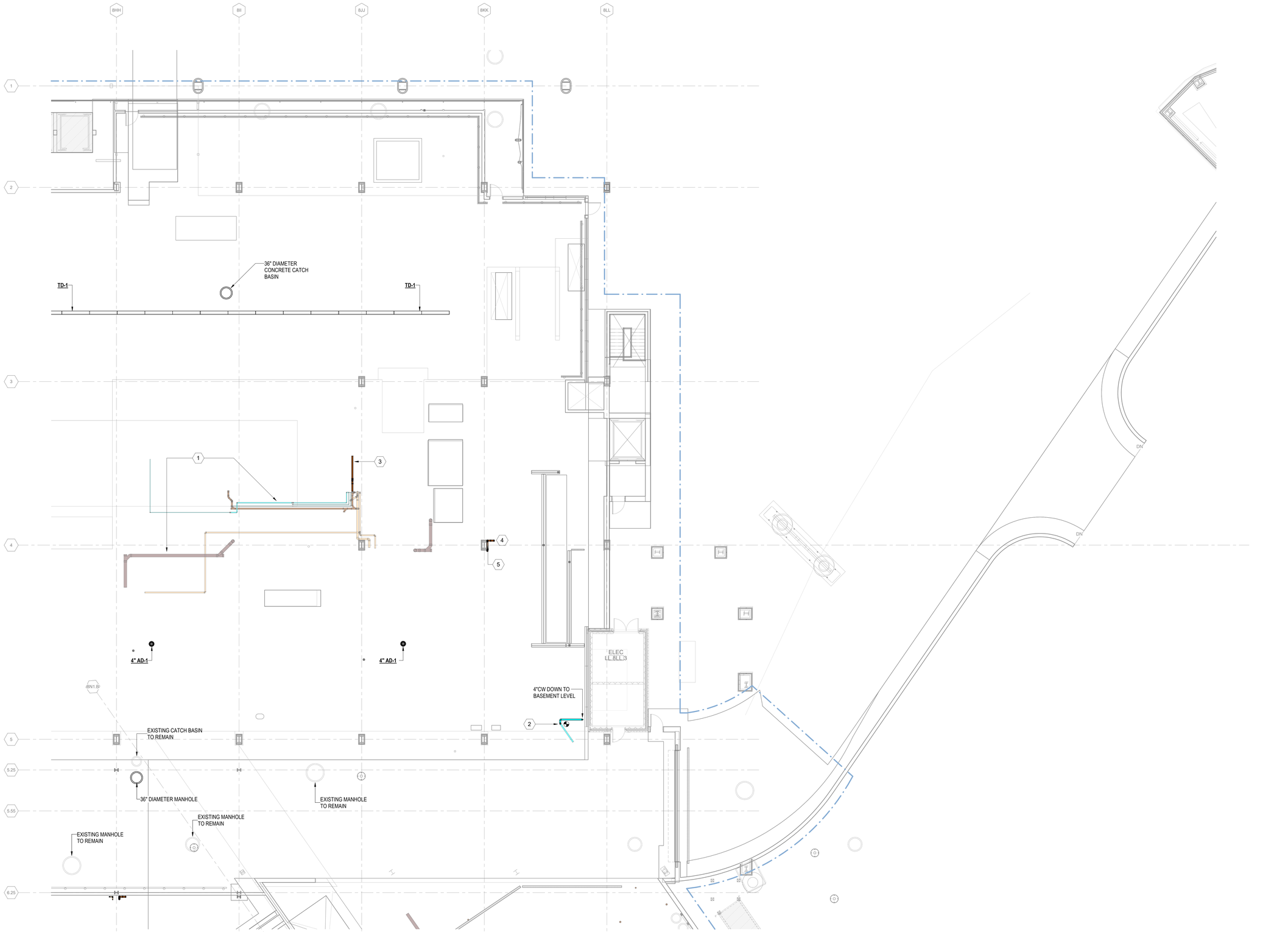
KEY NOTES:

1. EXISTING PLUMBING PIPING AT THE CEILING SPACE TO REMAIN.
2. CONNECT NEW 4"CW TO EXISTING WATER MAIN IN THE CEILING SPACE. VERIFY FINAL LOCATION, SIZE AND ELEVATION IN FIELD.
3. EXTEND 4" SANITARY PIPE TO POTENTIAL COMMERCIAL AREA. PROVIDE VENT PIPE AT THE END OF THE SANITARY LINE, RUN PIPE UP TO UPPER LEVEL AND CONNECT TO ACTIVE VENT LINE.
4. 4" SANITARY STUB FOR FUTURE.
5. 4" S DN, 4" V UP



1A PLUMBING PLAN LOWER LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 12:07:06 PM

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CITY OF CHICAGO
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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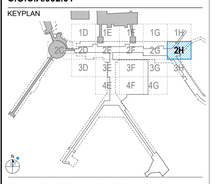
KEYPLAN



PLUMBING PLAN LOWER LEVEL - AREA 2H

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **P2.2.02.2H** VOLUME: **2**

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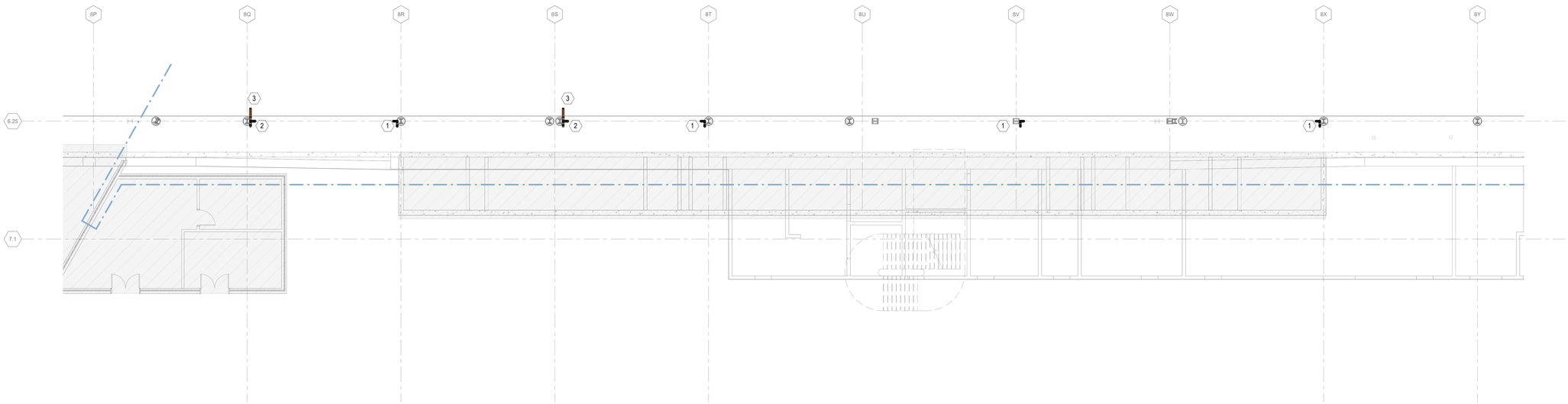
KEY NOTES:

1. 4"ST DOWNSPOUT WITH OFFSETS ABOVE THE GRADE AND BELOW THE UPPER FLOOR. PROVIDE CLEANOUT ABOVE THE GRADE. PROVIDE HEAT TRACING WITH 2" FIBERGLASS INSULATION AND METAL JACKET FOR EXPOSED PIPING.
2. 4" S STACK DN WITH OFFSETS ABOVE GRADE. PROVIDE CLEANOUT ABOVE GRADE. PROVIDE HEAT TRACING WITH 2" FIBERGLASS INSULATION AND METAL JACKET FOR EXPOSED PIPING. EXTEND 4" VENT WITH OFFSET TO UPPER FLOOR.
3. PROVIDE 4" S STUB FOR FUTURE.



1A PLUMBING PLAN LOWER LEVEL - AREA 3F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
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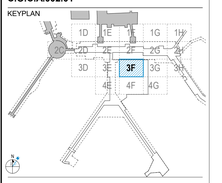

PLUMBING PLAN LOWER LEVEL - AREA 3F

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SHEET NUMBER
P2.2.02.3F

VOLUME: **2**

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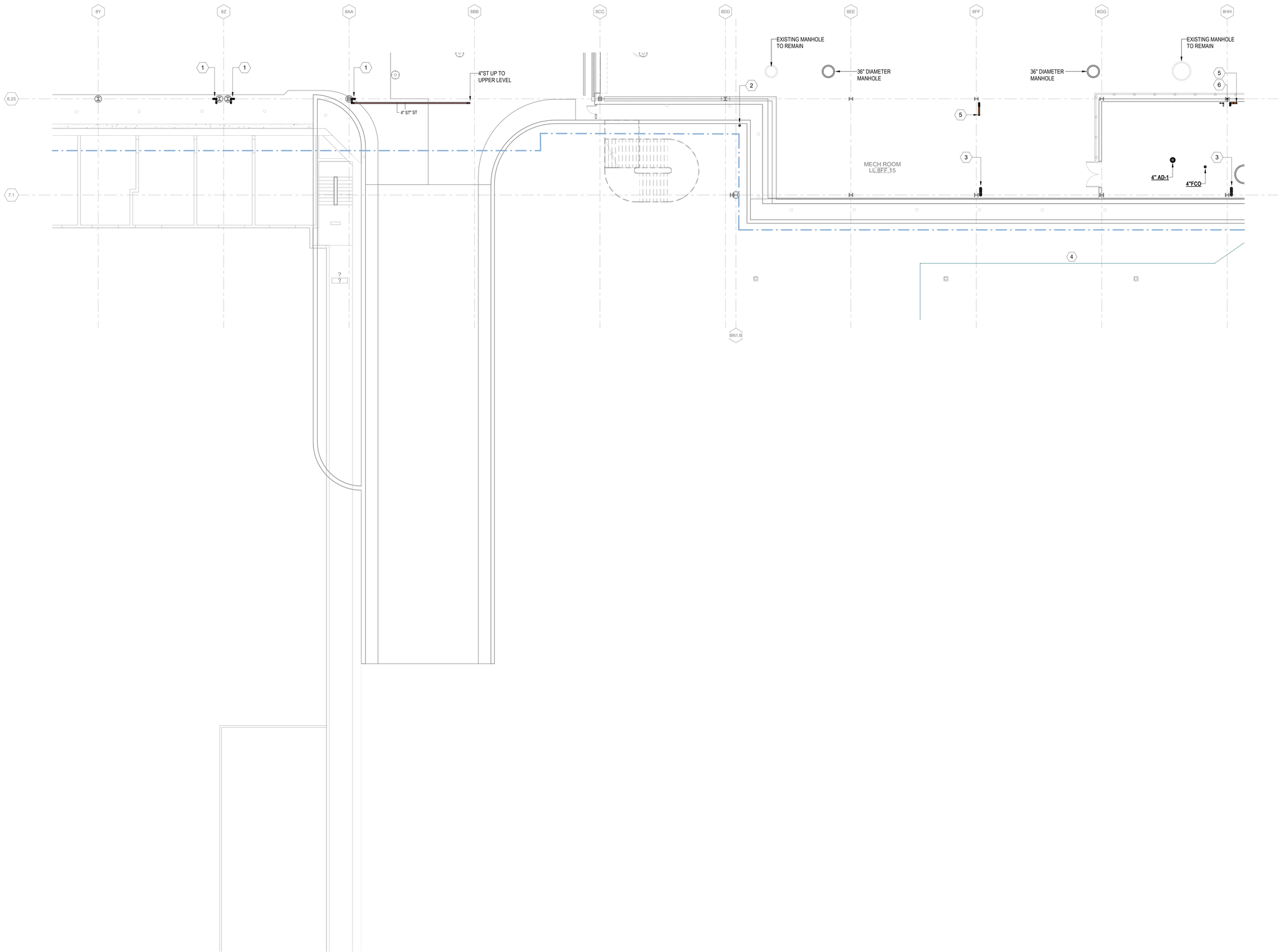
KEY NOTES:

1. 4"ST DOWNSPOUT WITH OFFSETS ABOVE THE GRADE AND BELOW THE UPPER FLOOR. PROVIDE CLEANOUT ABOVE THE GRADE. PROVIDE HEAT TRACING WITH 2" FIBERGLASS INSULATION AND METAL JACKET FOR EXPOSED PIPING.
2. 6"ST DOWNSPOUT. PROVIDE CLEANOUT ABOVE THE GRADE. PROVIDE HEAT TRACING WITH 2" FIBERGLASS INSULATION AND METAL JACKET FOR EXPOSED PIPING.
3. 6"ST DOWNSPOUT WITH OFFSETS ABOVE THE FLOOR AND IN THE CEILING SPACE. PROVIDE CLEANOUT ABOVE THE FLOOR.
4. EXISTING CW TO REMAIN.



1A PLUMBING PLAN LOWER LEVEL - AREA 3G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 12:07:21 PM

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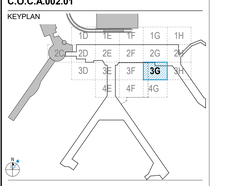

PLUMBING PLAN LOWER LEVEL - AREA 3G

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SHEET NUMBER VOLUME: **2**

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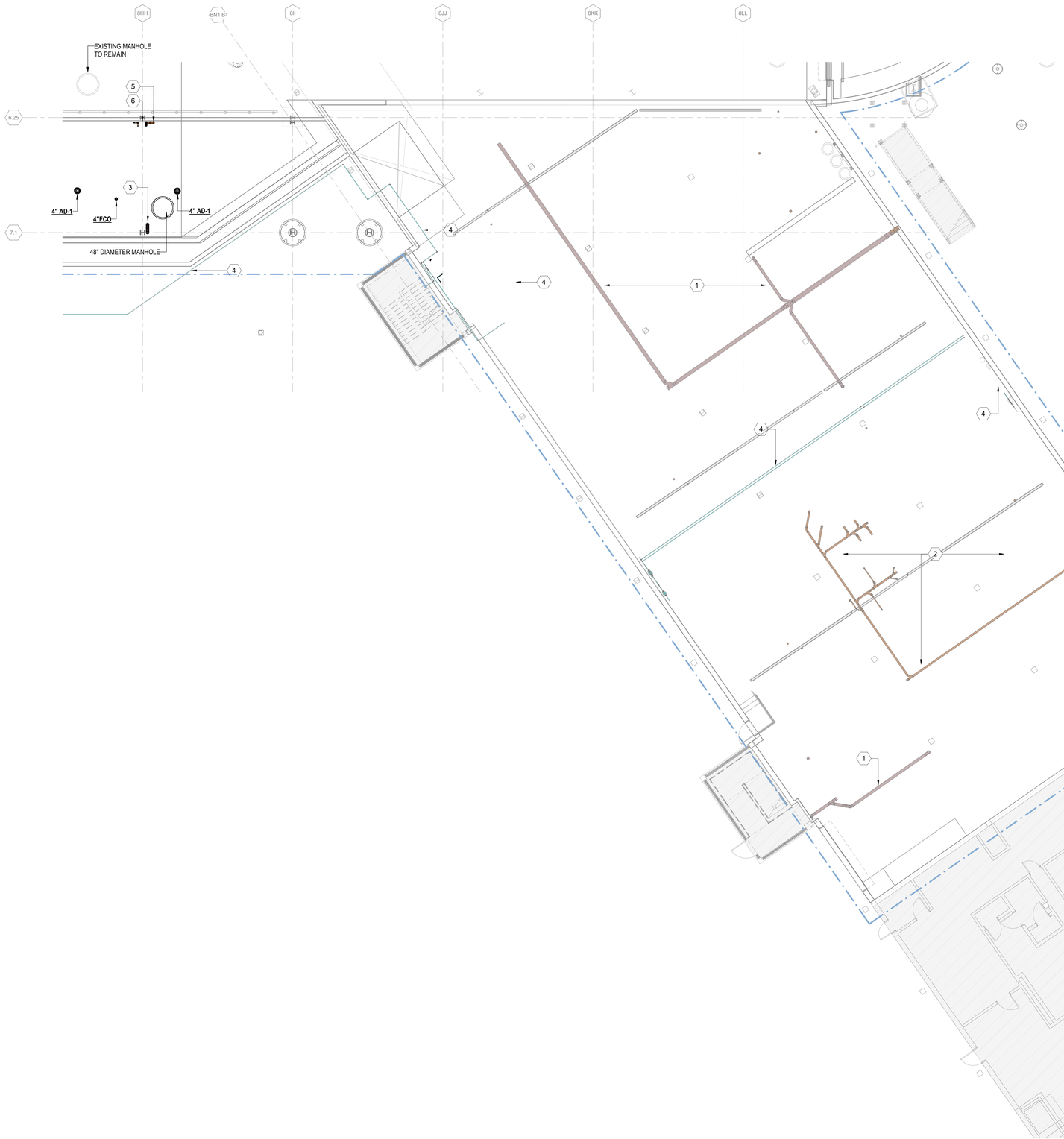
KEY NOTES:

1. EXISTING ST PIPING TO REMAIN.
2. EXISTING S PIPING TO REMAIN.
3. 6"ST DOWNSPOUT WITH OFFSETS ABOVE THE FLOOR AND IN THE CEILING SPACE. PROVIDE CLEANOUT ABOVE THE FLOOR.
4. EXISTING CW TO REMAIN.



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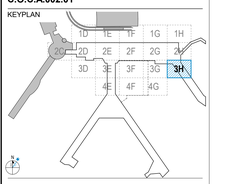
C.O.C.A.002.01

KEYPLAN



PLUMBING PLAN LOWER LEVEL - AREA 3H

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
P2.2.02.3H

VOLUME: **2**

3/22/2023 12:07:37 PM

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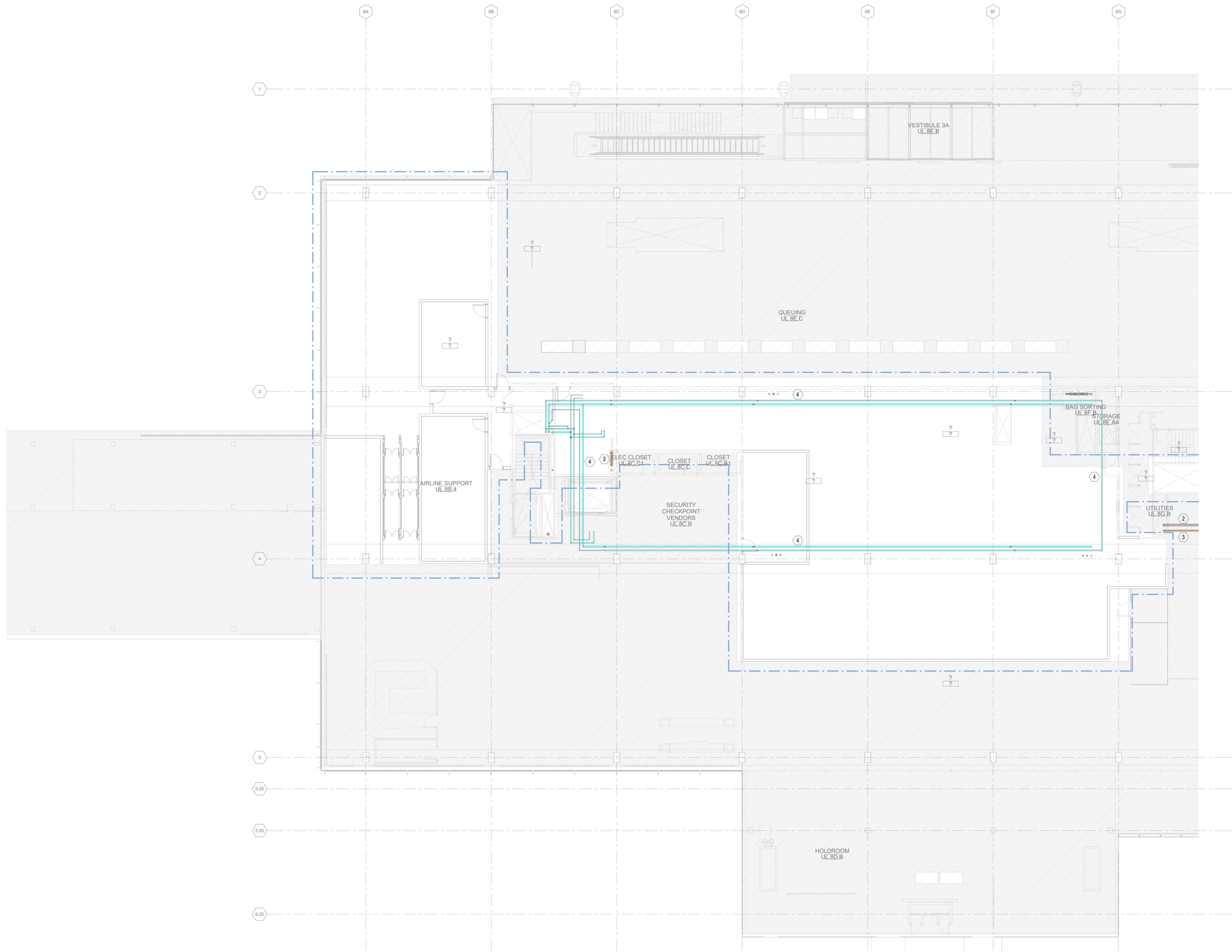
KEY NOTES:

1. EXISTING ST PIPING TO REMAIN.
2. EXISTING S PIPING TO REMAIN.
3. EXISTING CW PIPING TO REMAIN.



1A PLUMBING PLAN UPPER LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

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NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
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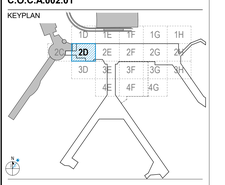
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



PLUMBING PLAN UPPER LEVEL - AREA 2D

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
P2.2.03.2D

VOLUME: **2**

3/19/2023 8:55:13 PM

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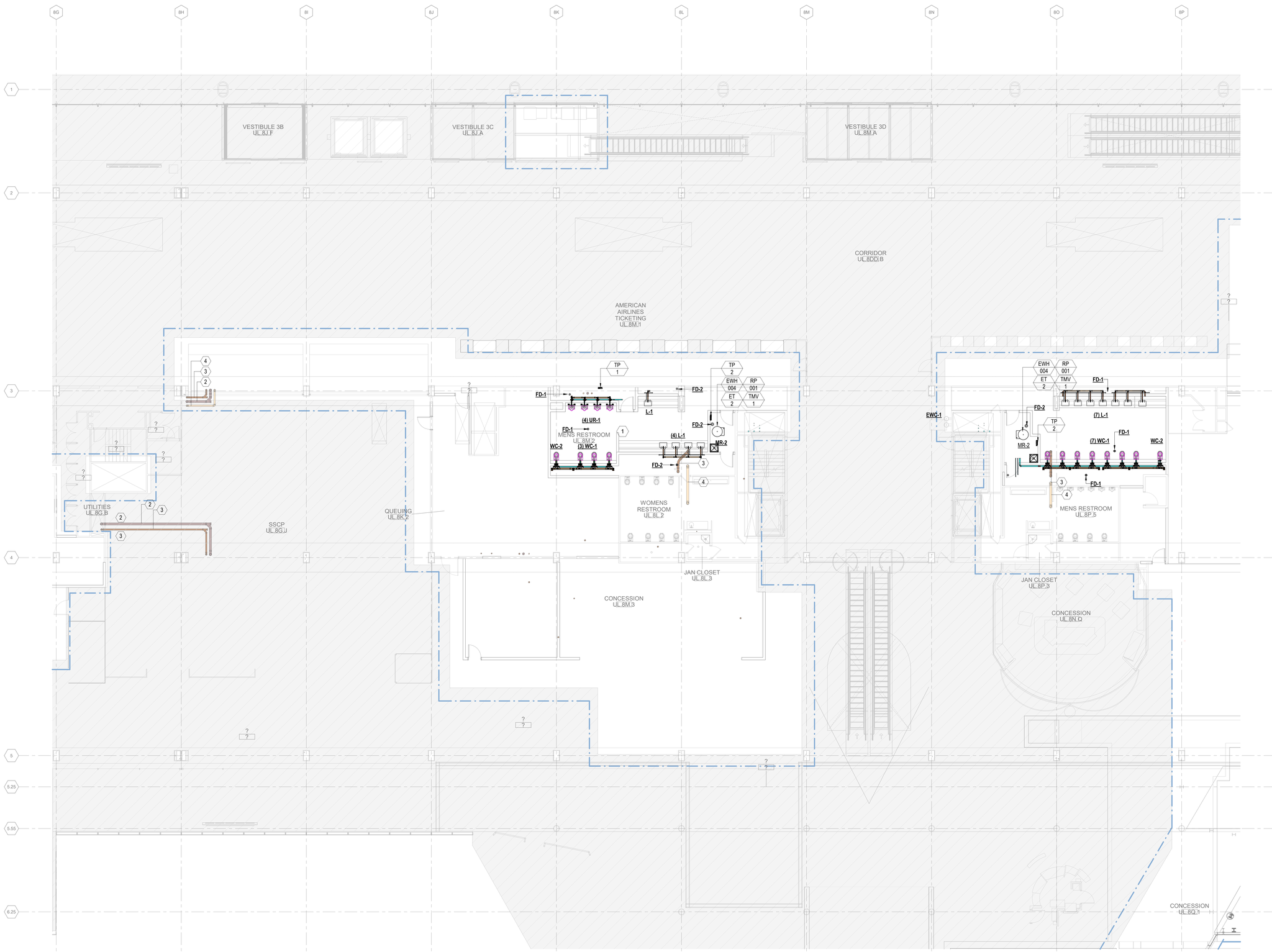
2. EXISTING ST PIPING TO REMAIN.
3. EXISTING S PIPING TO REMAIN.
4. EXISTING V PIPING TO REMAIN.



1A PLUMBING PLAN UPPER LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 7:51:41 PM

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CHICAGO DEPARTMENT OF AVIATION
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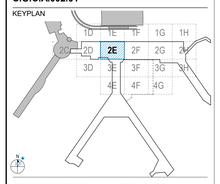
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



PLUMBING PLAN UPPER LEVEL - AREA 2E

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
P2.2.03.2E

VOLUME: **2**

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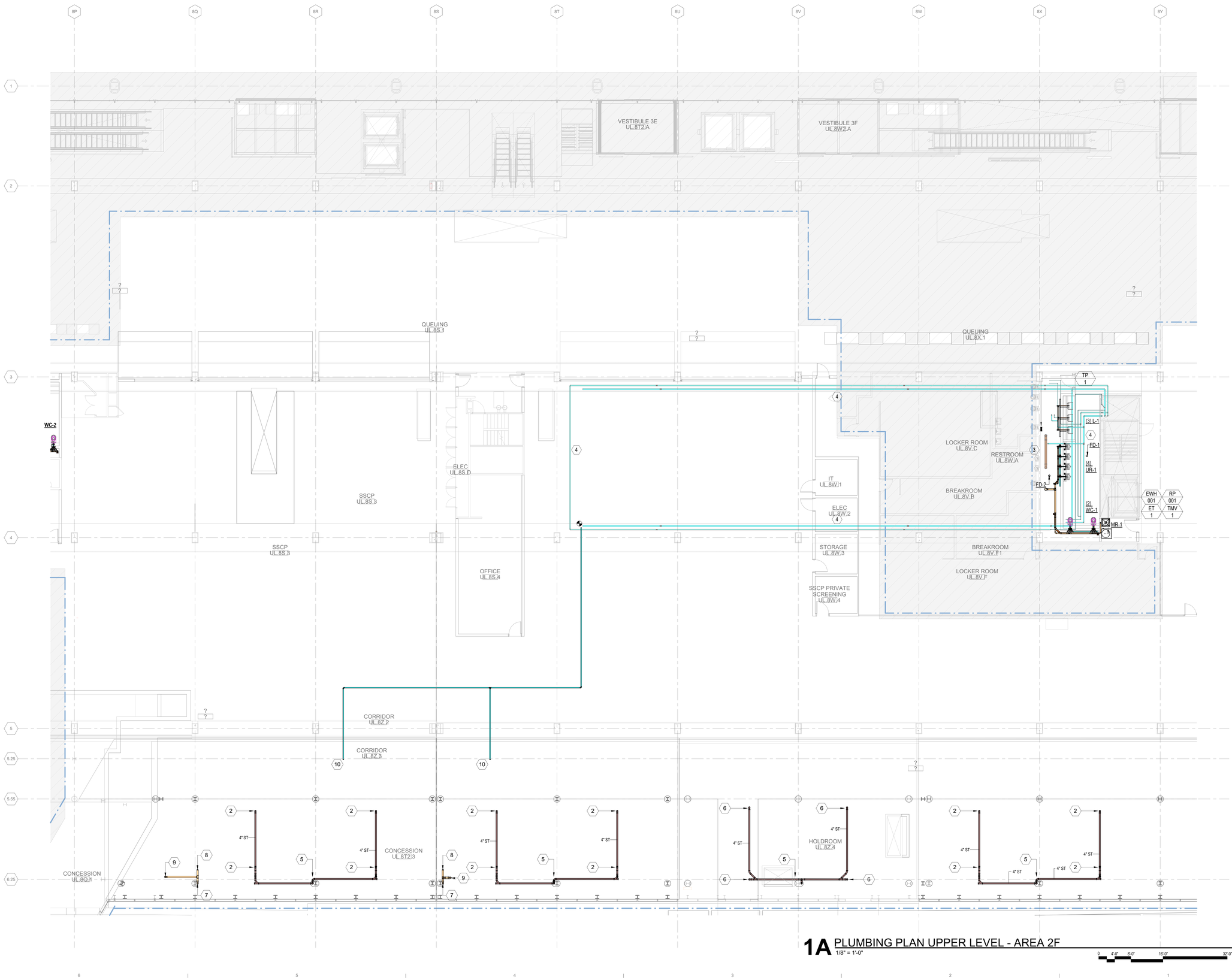
2. 4" ST UP TO RD.
3. EXISTING S PIPING TO REMAIN.
4. EXISTING CW PIPING TO REMAIN.
5. 4" ST DOWN.
6. 4" ST UP AND CONNECT TO EXISTING ROOF DRAIN.
7. 4" V DN
8. 4" V STUB FOR FUTURE
9. 4" V UP TO VTR
10. 2 1/2" VALVED CW STUB FOR FUTURE



1A PLUMBING PLAN UPPER LEVEL - AREA 2F

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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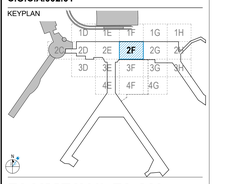
KEYPLAN



PLUMBING PLAN UPPER LEVEL - AREA 2F

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **P2.2.03.2F** VOLUME: **2**

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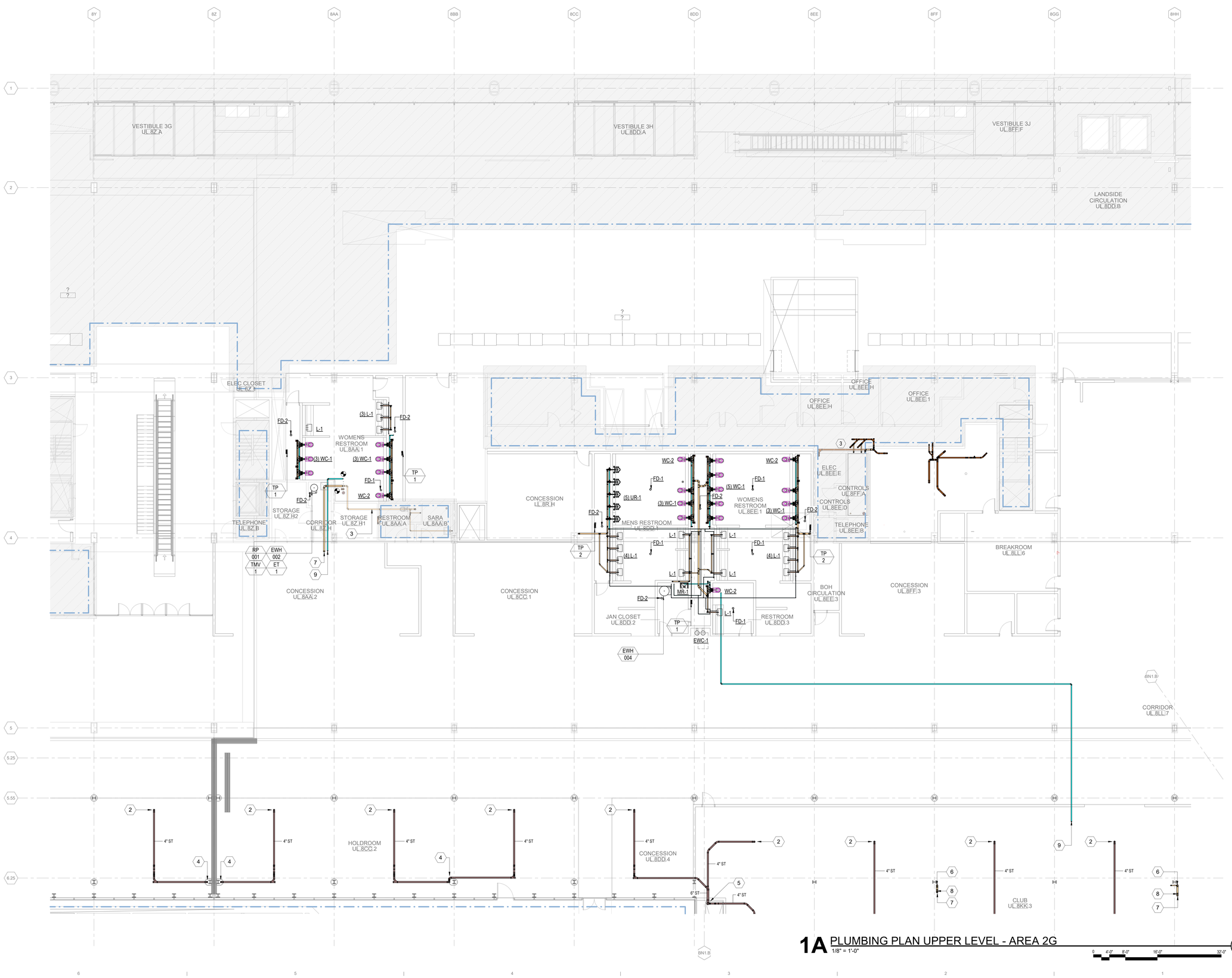
2. 4" ST UP TO RD
3. EXISTING SANITARY PIPING TO REMAIN.
4. 4" ST DOWN.
5. 6" ST DOWN.
6. 4" V DN
7. 4" V STUB FOR FUTURE
8. 4" V UP TO VTR
9. 2 1/2" VALVED CW STUB FOR FUTURE



1A PLUMBING PLAN UPPER LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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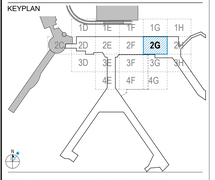

PLUMBING PLAN UPPER LEVEL - AREA 2G

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER **P2.2.03.2G** VOLUME: **2**

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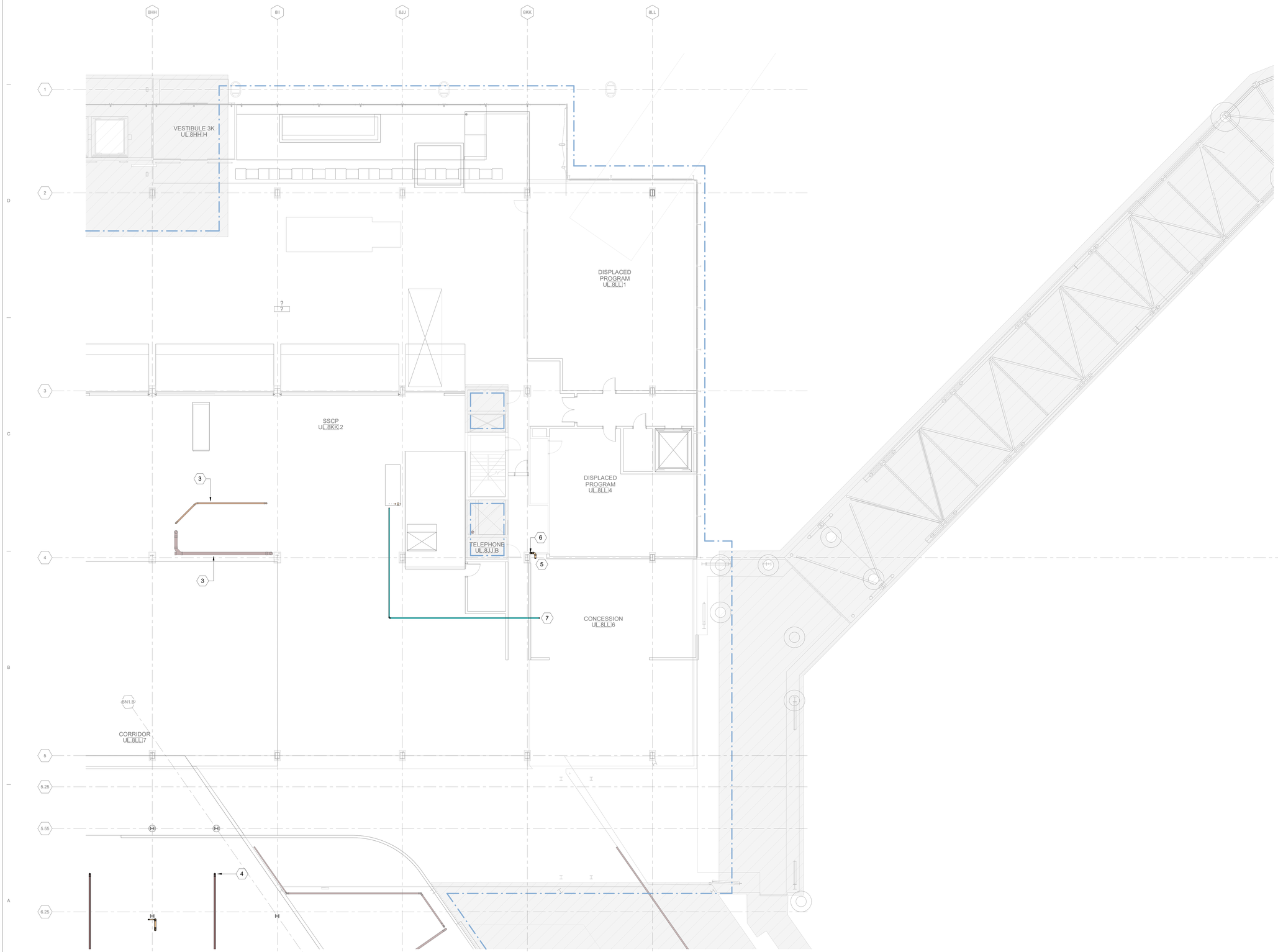
2. EXISTING ST PIPING TO REMAIN.
3. EXISTING S PIPING TO REMAIN.
4. 4" ST UP TO RD.
5. 4" V STUB FOR FUTURE
6. 4" SAN DN, 4" V UP
7. 2 1/2" VALVED CW STUB FOR FUTURE



1A PLUMBING PLAN UPPER LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
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MAYOR

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JAMIE L. RHEE
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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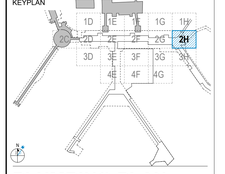
KEYPLAN



PLUMBING PLAN UPPER LEVEL - AREA 2H

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
P2.2.03.2H

VOLUME: **2**

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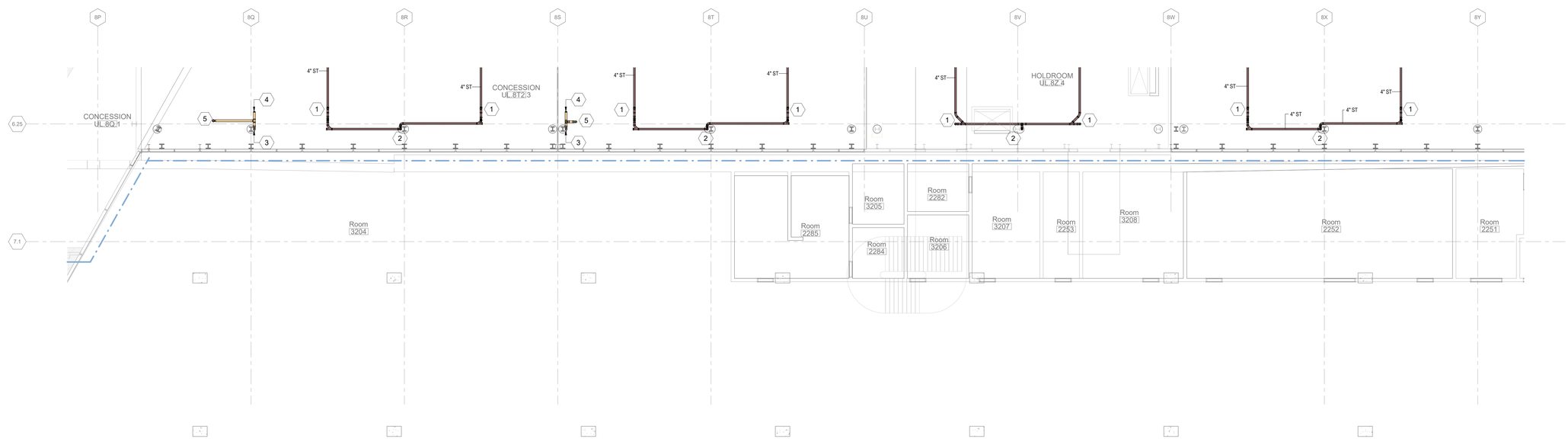
KEY NOTES:

1. 4" ST UP TO RD
2. 4" ST DN
3. 4" V DN
4. 4" V STUB FOR FUTURE
5. 4" V UP TO VTR



1A PLUMBING PLAN UPPER LEVEL - AREA 3F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 7:53:33 PM

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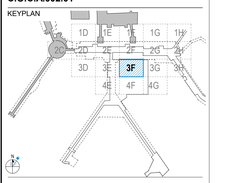
KEYPLAN



PLUMBING PLAN UPPER LEVEL - AREA 3F

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER VOLUME: **2**

P2.2.03.3F

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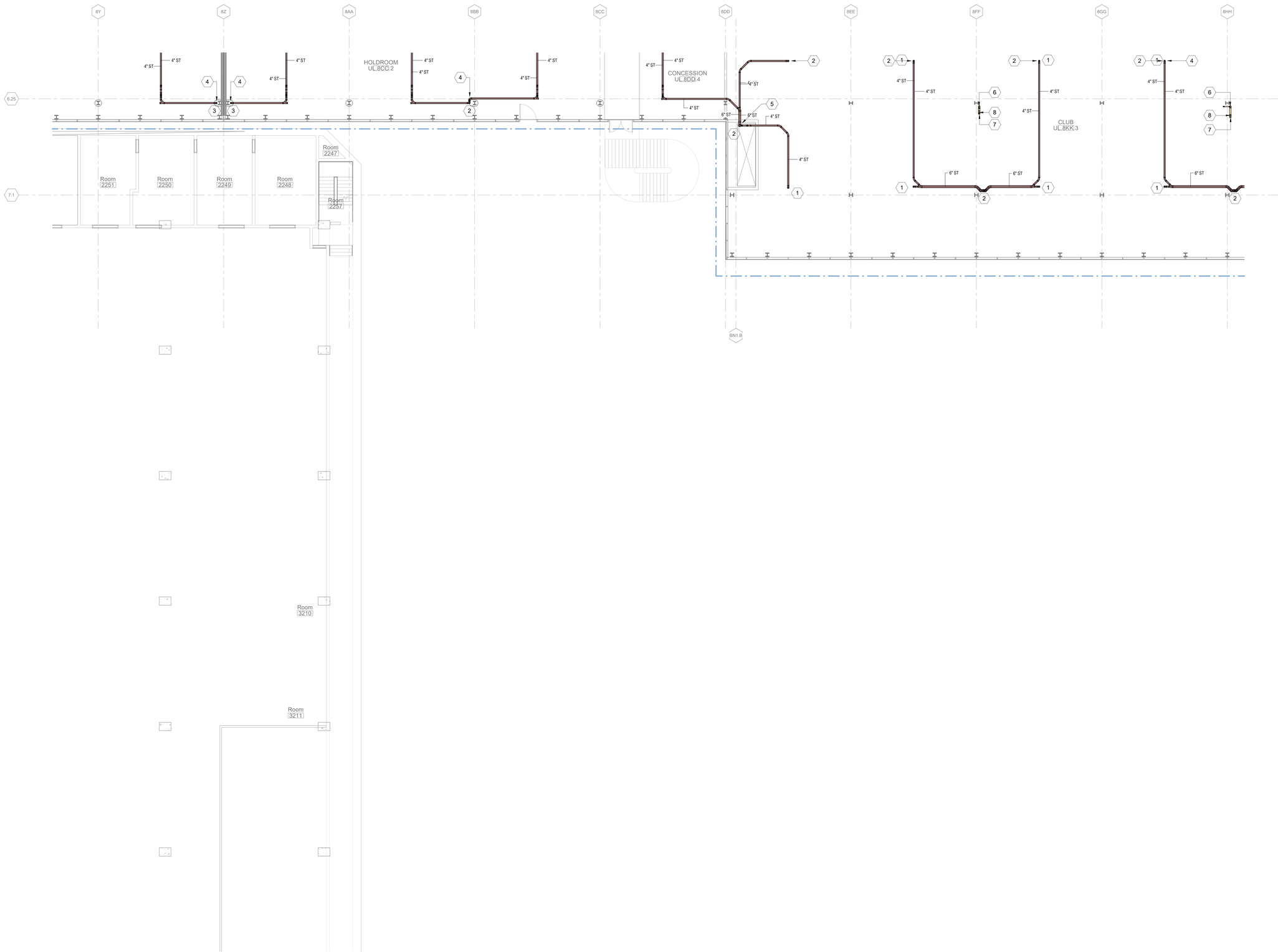
KEY NOTES:

1. 4" ST UP TO RD
2. 6" ST DN
3. 4" ST DN



1A PLUMBING PLAN UPPER LEVEL - AREA 3G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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KEYPLAN

PLUMBING PLAN UPPER LEVEL - AREA 3G

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **P2.2.03.3G** VOLUME: **2**

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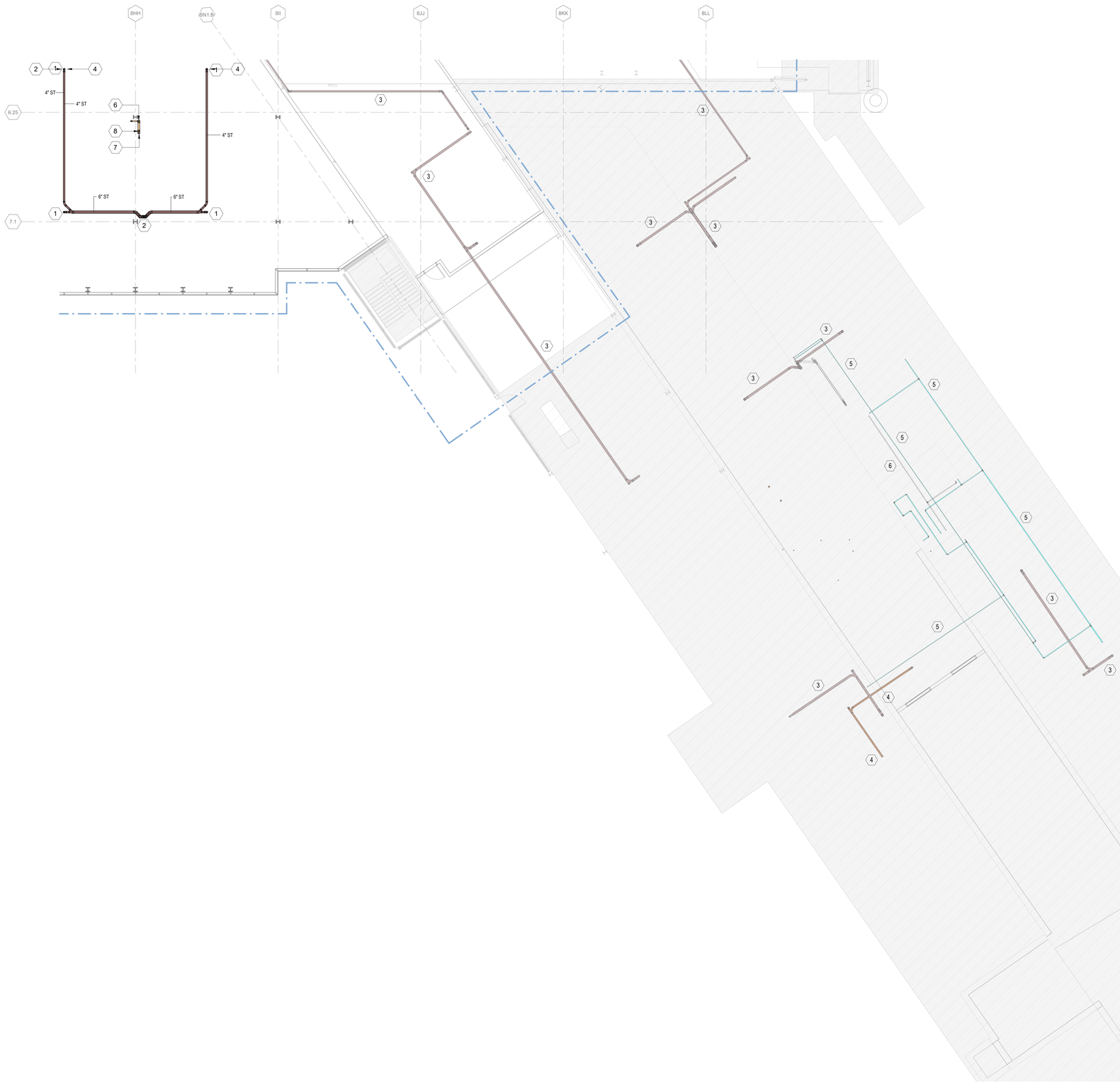
2. 6" ST DN
3. EXISTING ST PIPING TO REMAIN.
4. EXISTING S PIPING TO REMAIN.
5. EXISTING CW PIPING TO REMAIN.
6. EXISTING HW PIPING TO REMAIN.



1A PLUMBING PLAN UPPER LEVEL - AREA 3H
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REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
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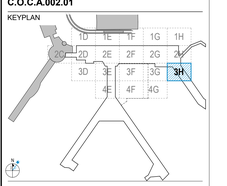
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



PLUMBING PLAN UPPER LEVEL - AREA 3H

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER VOLUME: **2**

P2.2.03.3H

GENERAL NOTE:

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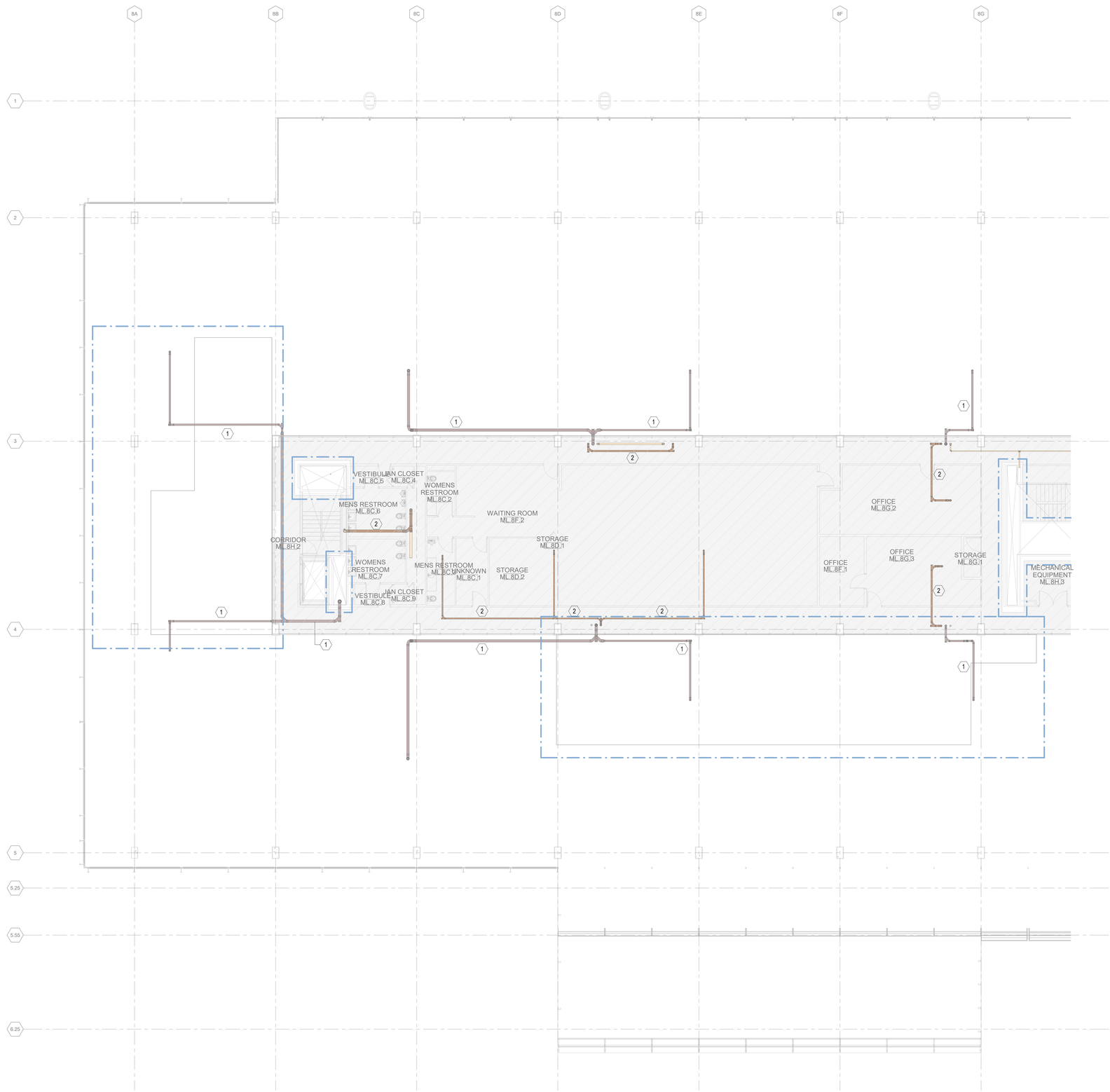
KEY NOTES:

1. EXISTING ST PIPING TO REMAIN.
2. EXISTING S PIPING TO REMAIN.



1A PLUMBING PLAN MEZZANINE LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
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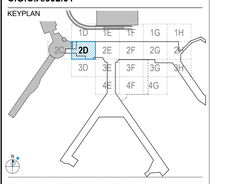

PLUMBING PLAN MEZZANINE LEVEL - AREA 2D

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER **P2.2.04.2D** VOLUME: **2**

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KEY NOTES:

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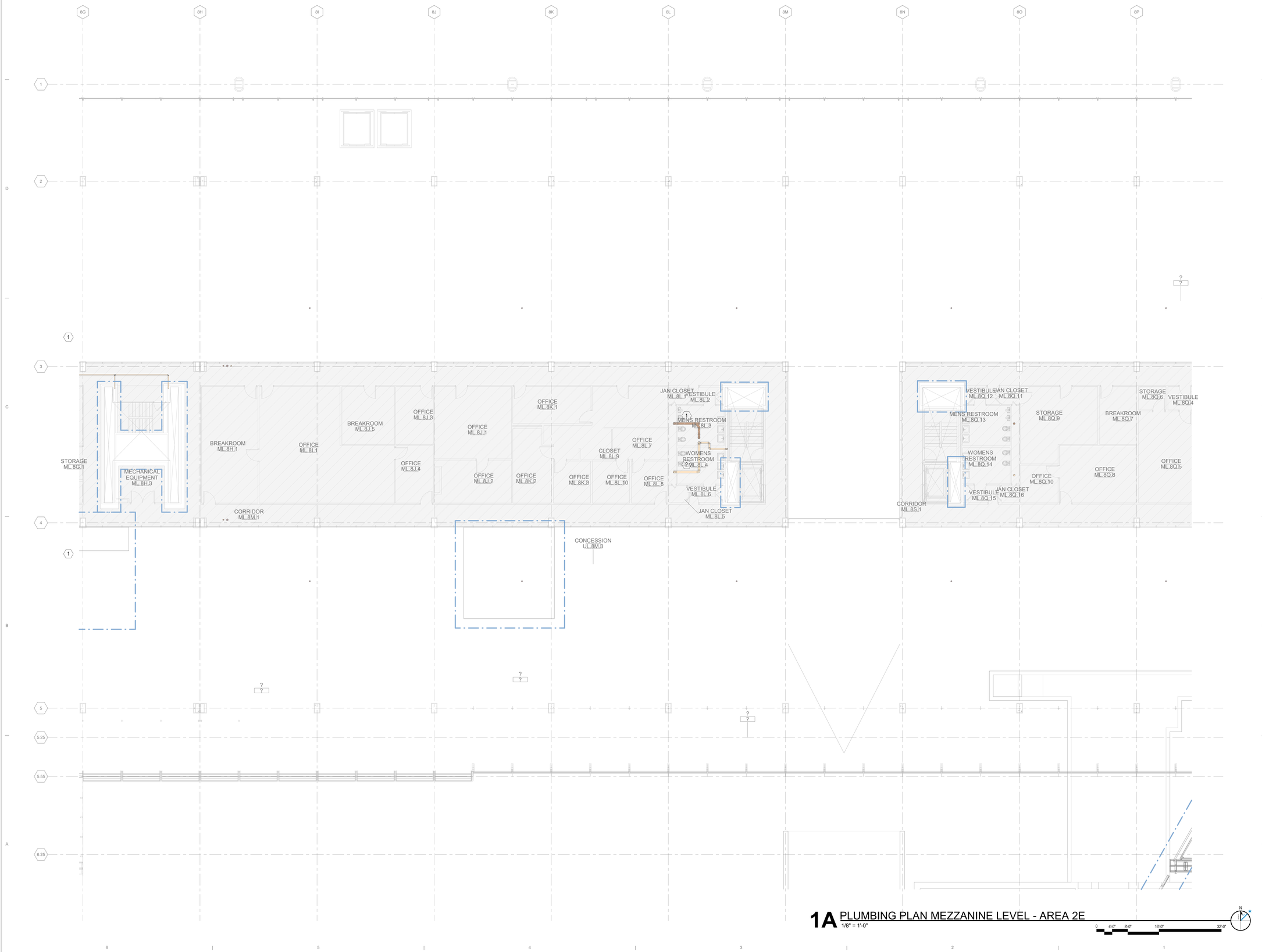
2. EXISTING V PIPING TO REMAIN.



1A PLUMBING PLAN MEZZANINE LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 7:55:07 PM

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JAMIE L. RHEE
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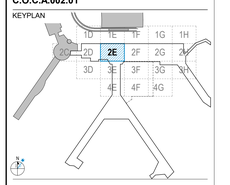

PLUMBING PLAN MEZZANINE LEVEL - AREA 2E

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER **P2.2.04.2E** VOLUME: **2**

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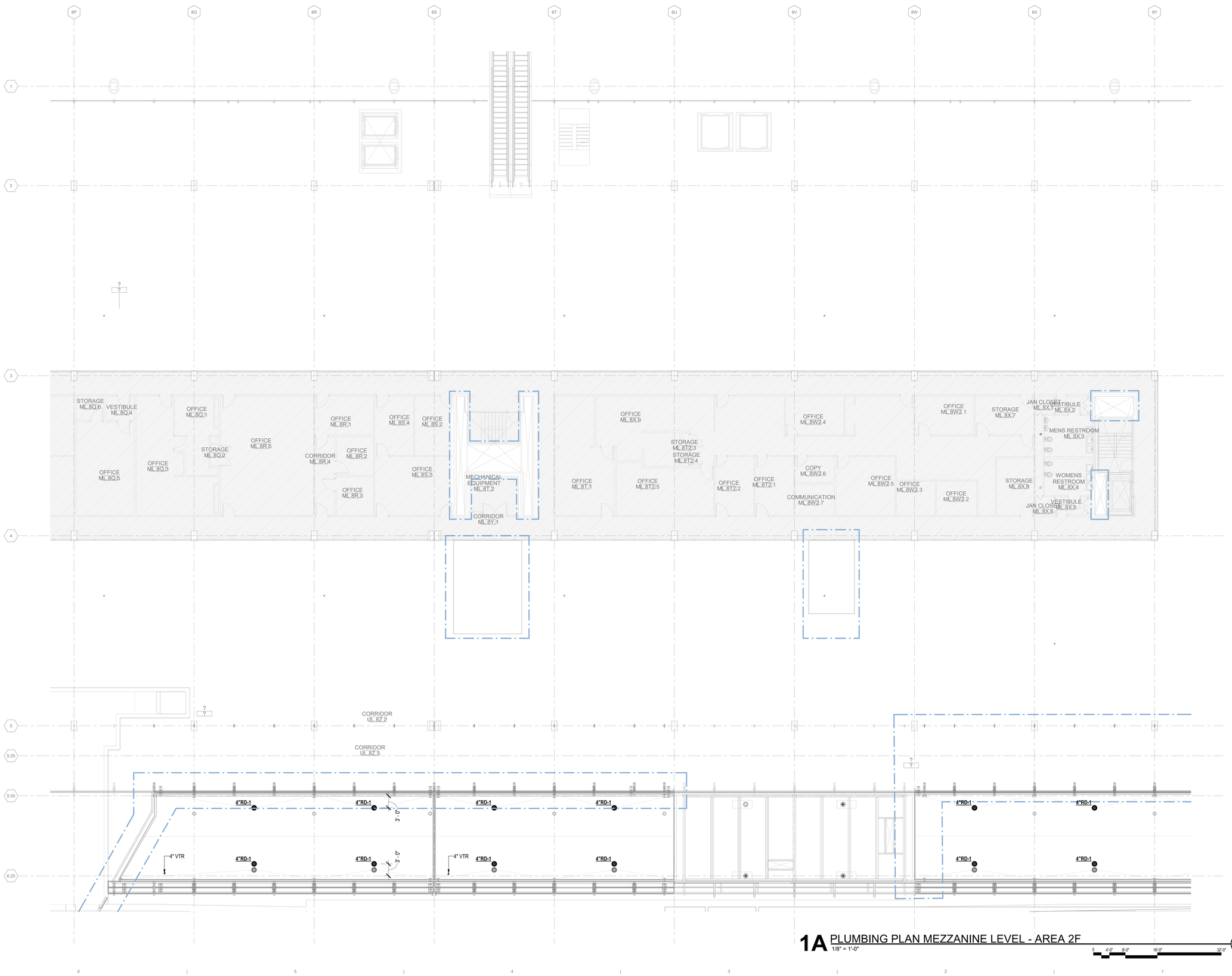

1A PLUMBING PLAN MEZZANINE LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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REVISION: **--**

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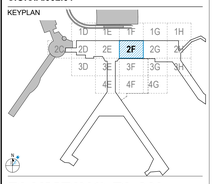
KEYPLAN



PLUMBING PLAN MEZZANINE LEVEL - AREA 2F

DRAWN BY: **Author**
CHECKED BY: **Checker**
SHEET NUMBER
P2.2.04.2F
VOLUME: **2**

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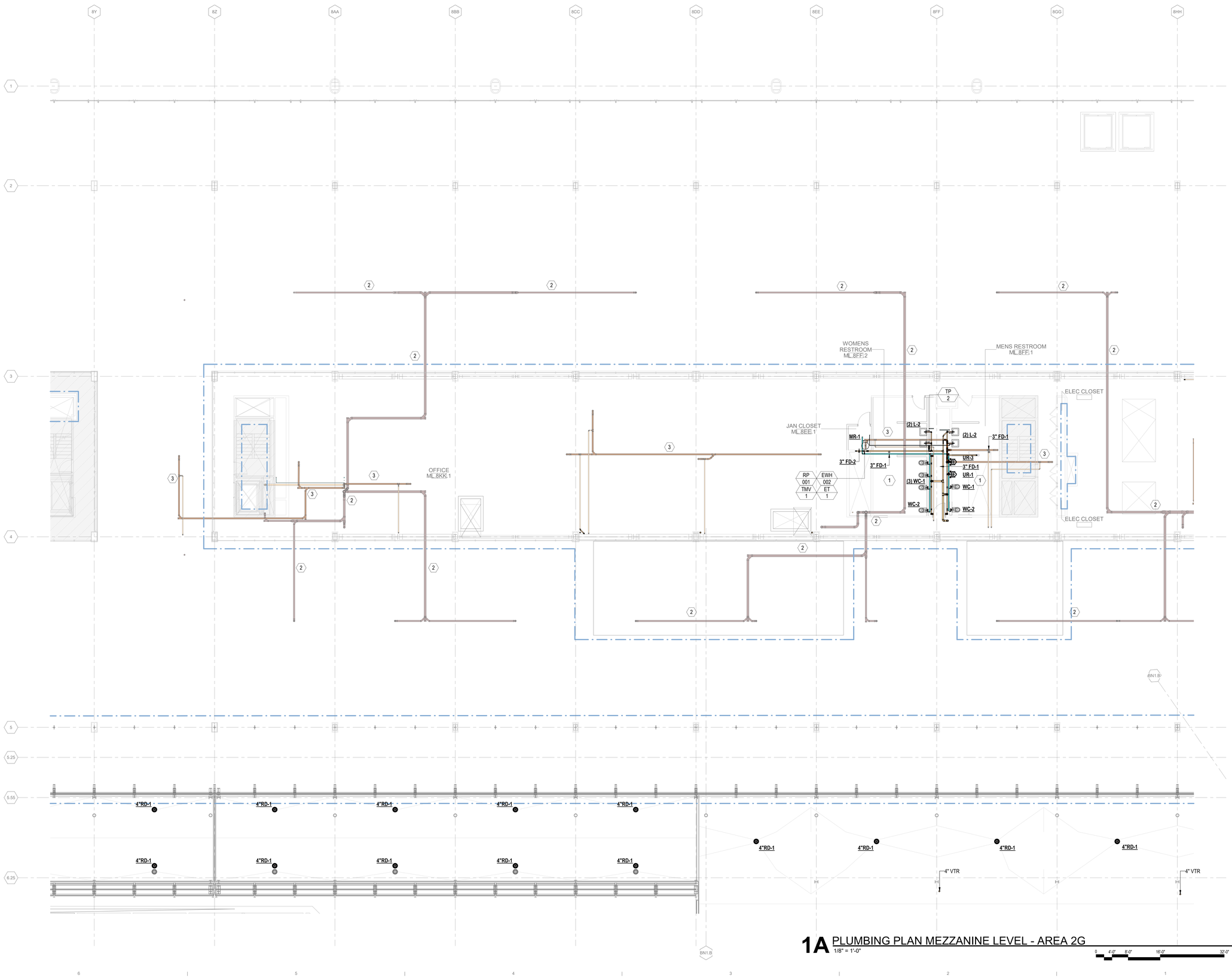
KEY NOTES:

1. PROVIDE NEW PLUMBING FIXTURES, FIXTURE SUPPORTS, AND ALL ASSOCIATED PIPING. RECONNECT NEW WATER, SOIL AND VENT PIPE TO EXISTING AS DICTATED BY FIELD CONDITIONS. MODIFY EXISTING PIPING IF REQUIRED. QUANTITY OF NEW PLUMBING FIXTURES PER ARCHITECTURE SPECIFICATION.
2. EXISTING ST PIPING TO REMAIN.
3. EXISTING S PIPING TO REMAIN.



1A PLUMBING PLAN MEZZANINE LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

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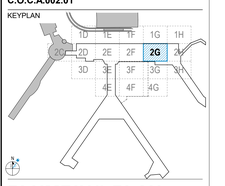
KEYPLAN



PLUMBING PLAN MEZZANINE LEVEL - AREA 2G

DRAWN BY: **Author** CHECKED BY: **Checker**
SHEET NUMBER VOLUME: **2**

P2.2.04.2G

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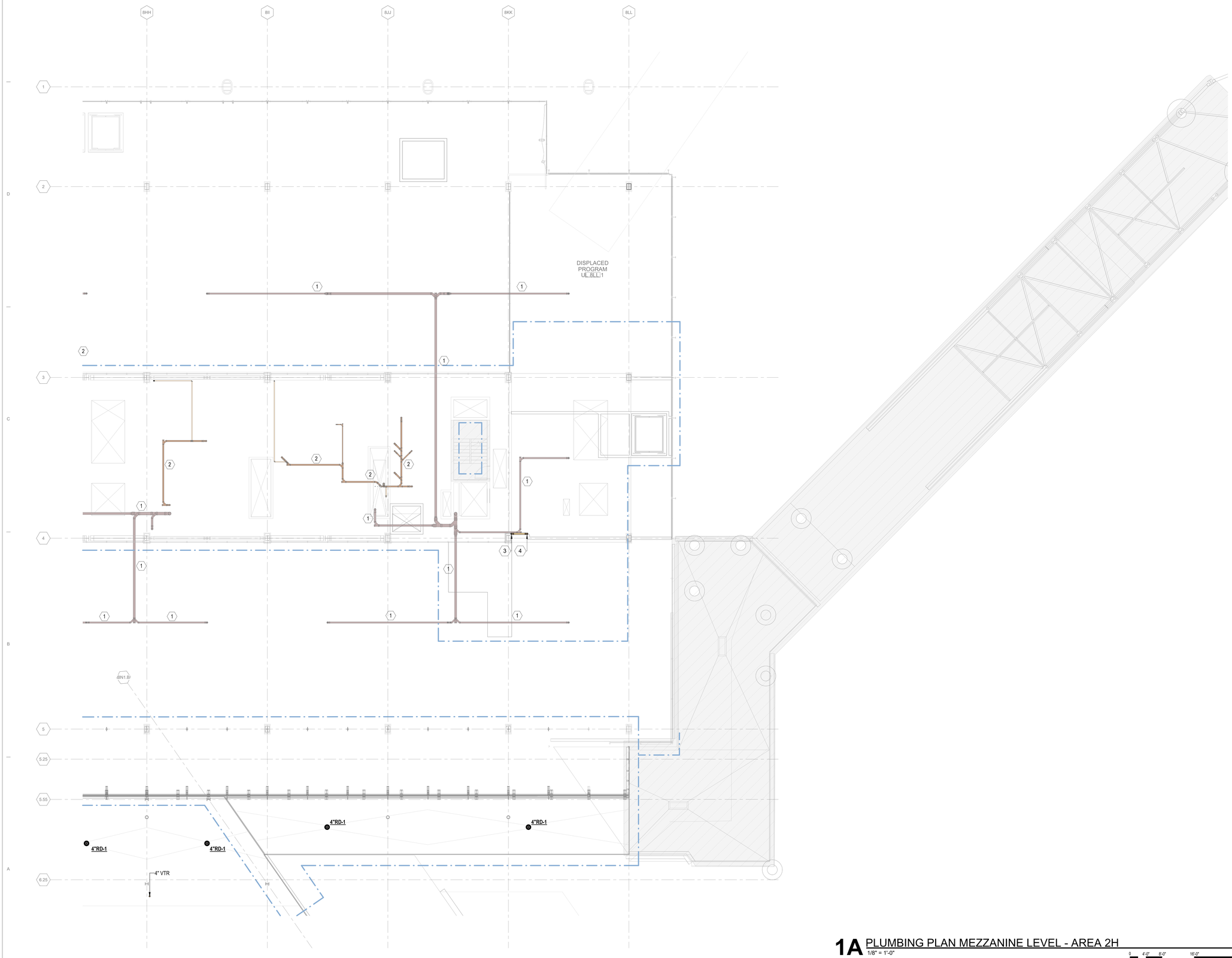
KEY NOTES:

1. EXISTING ST PIPING TO REMAIN
2. EXISTING S PIPING TO REMAIN
3. 4" V DN
4. 4" V UP TO VTR. COORDINATE LOCATION WITH EXISTING AIR INTAKES, ROOFTOP EQUIPMENT, ETC.



1A PLUMBING PLAN MEZZANINE LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 8:55:43 PM

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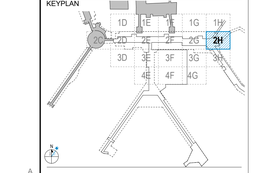

PLUMBING PLAN MEZZANINE LEVEL - AREA 2H

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
P2.2.04.2H

VOLUME: **2**

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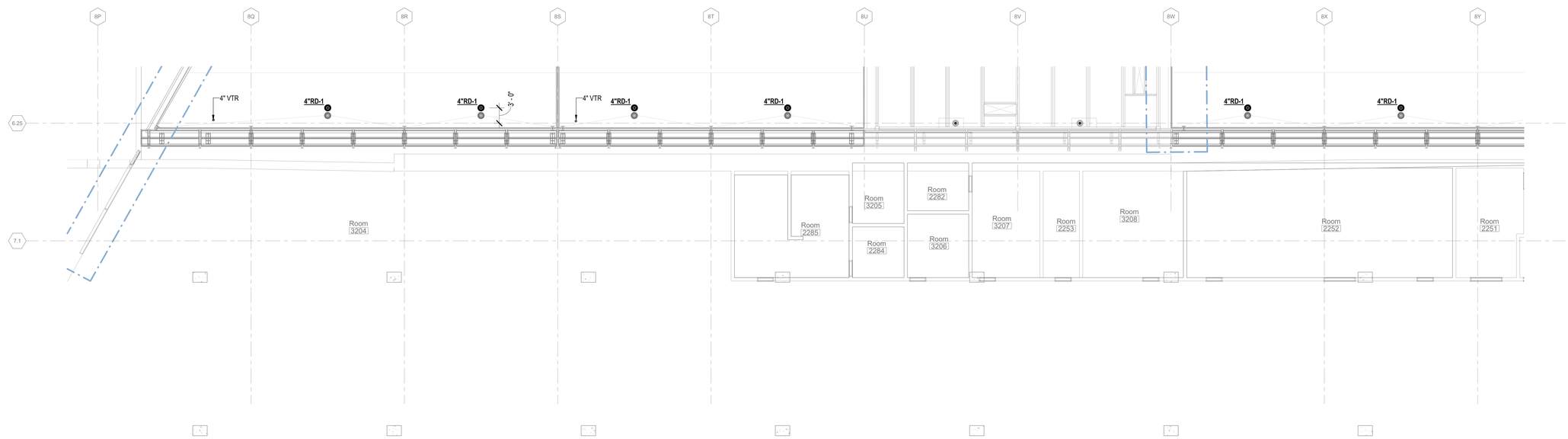



1A PLUMBING PLAN MEZZANINE LEVEL - AREA 3F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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KEYPLAN



PLUMBING PLAN MEZZANINE LEVEL - AREA 3F

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **P2.2.04.3F**

VOLUME: **2**

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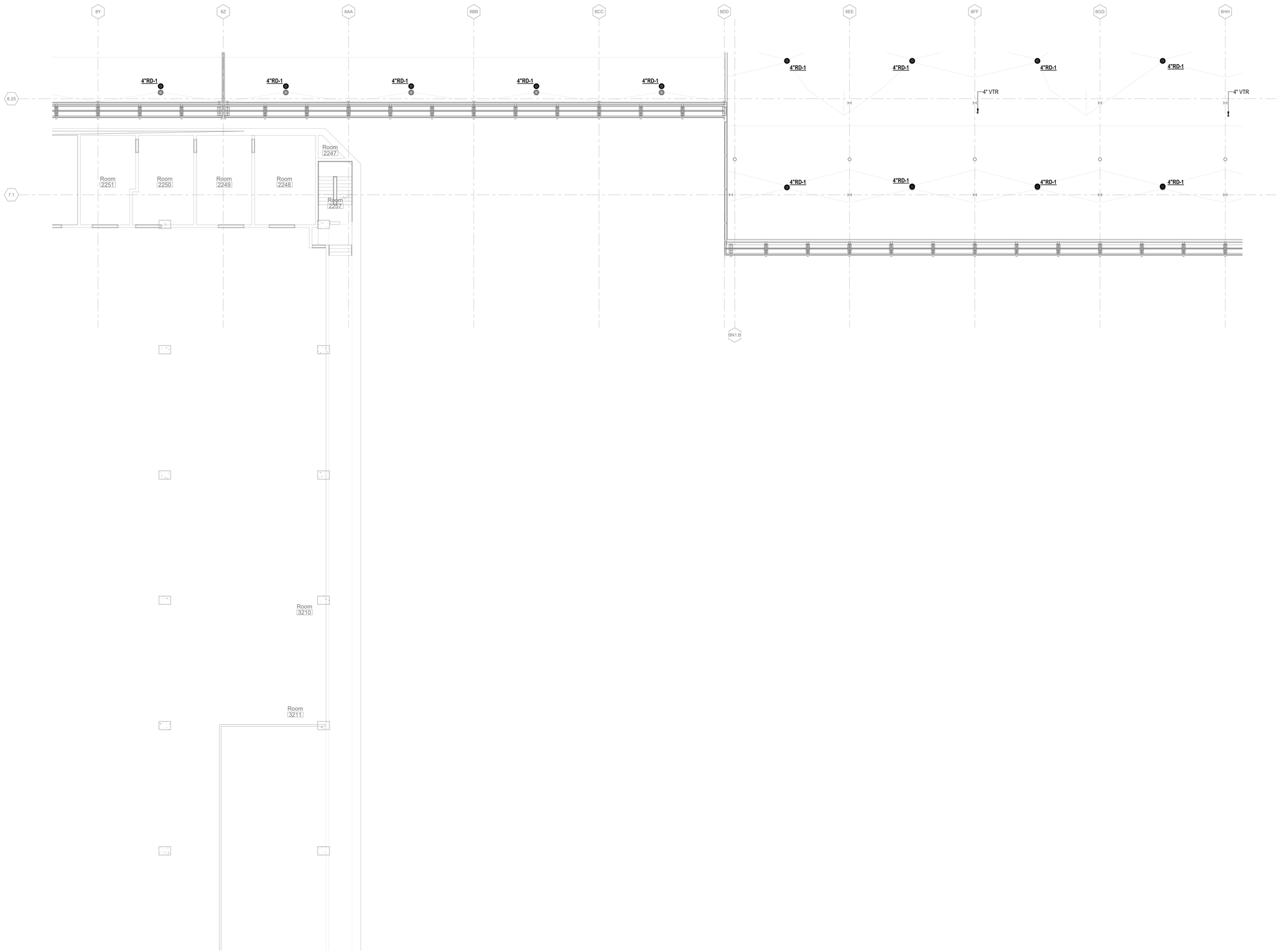

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PLUMBING PLAN MEZZANINE LEVEL - AREA 3G

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **P2.2.04.3G** VOLUME: **2**

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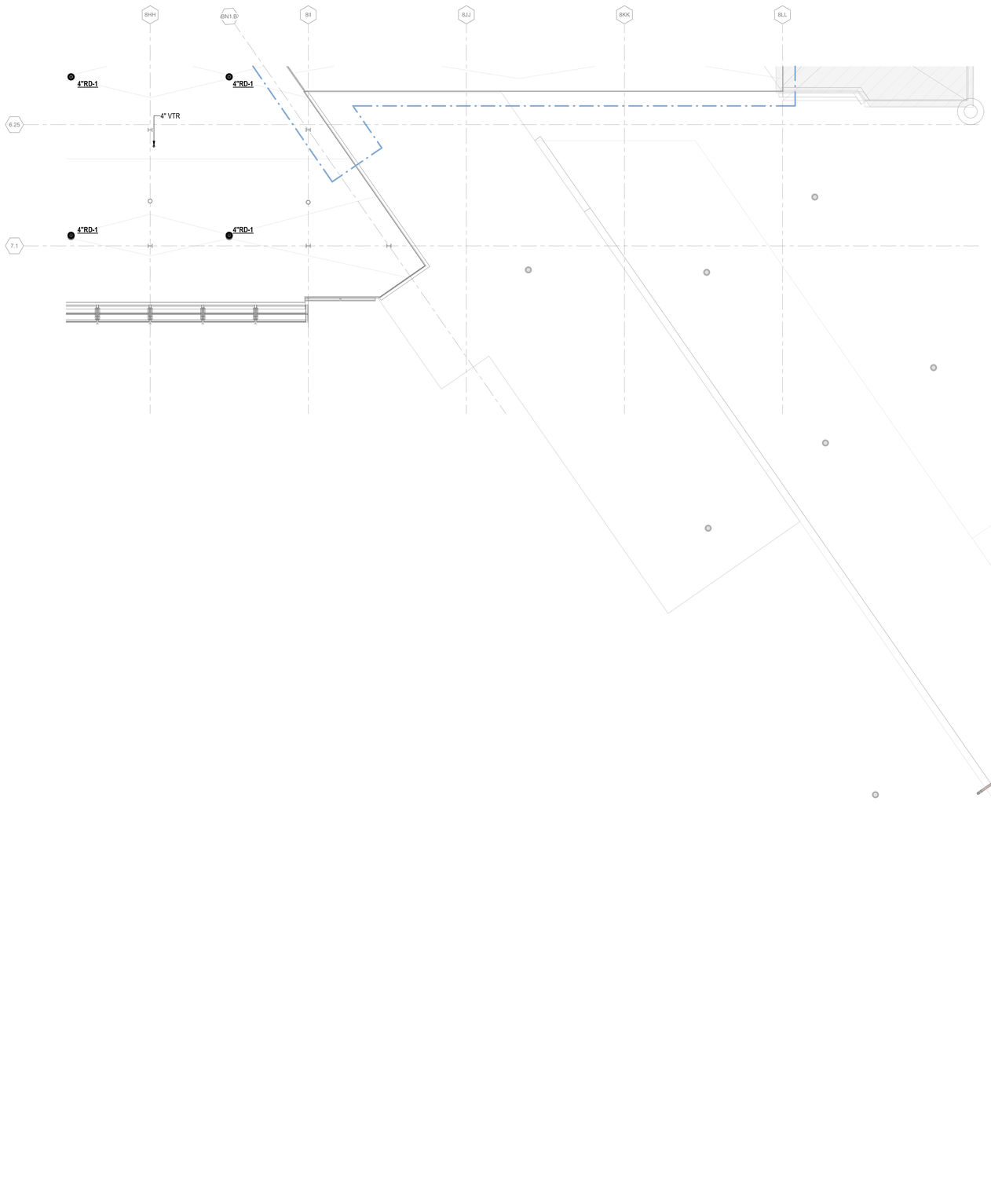

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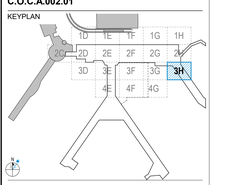

PLUMBING PLAN MEZZANINE LEVEL - AREA 3H

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER
P2.2.04.3H

VOLUME: **2**

PLUMBING FIXTURE SCHEDULE

MARK NO.	DESCRIPTION	LOCATION	MANUFACTURER	MODEL #	MIN. ROUGH-IN CONN. (IN)					REMARKS
					W	V	CW	HW	TW	
WC-1	WATER CLOSET	RESTROOMS	ACORN ENGINEERING	1675-W-3.5GPF-HS-WO3B	4"	2"	1"	---	---	STAINLESS STEEL WALL MOUNTED WATER CLOSET, WITH 3.5 GPF BLOWOUT TYPE WITH HARD WIRED CONCEALED FLUSH VALVE. PROVIDE WITH OPEN FRONT SEAT WITH DURAGUARD ANTI-MICROBIAL BUILT-IN SEAT PROTECTION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
WC-2	WATER CLOSET	RESTROOMS	ACORN ENGINEERING	1675-W-3.5GPF-HS-WO3B	4"	2"	1"	---	---	STAINLESS STEEL WALL MOUNTED WATER CLOSET, WITH 3.5 GPF BLOWOUT TYPE WITH HARD WIRED CONCEALED FLUSH VALVE. PROVIDE WITH OPEN FRONT SEAT WITH DURAGUARD ANTI-MICROBIAL BUILT-IN SEAT PROTECTION. INSTALL PER MANUFACTURERS RECOMMENDATIONS. INSTALL PER ADA STANDARDS.
L-1	LAVATORY	RESTROOMS	--	---	1-1/2"	1-1/2"	1/2"	---	1/2"	VITREOUS CHINA UNDERMOUNT LAVATORY, WITH FRONT OVERFLOW, SELF-DRAINING DECK, AND CONTOURED BACK AND SIDE SPLASH SHIELDS. HARD WIRED FAUCET WITH INTEGRATED SIDE MIXER AND 0.5GPM FLOW. PROVIDE WITH OFFSET GRID STRAINER DRAIN, COMMERCIAL GRADE HEAVY PATTERN WATER STOPS (NO PLASTIC PARTS), 17 GAUGE P-TRAP AND TAILPIECE. PROVIDE LEONARD LF-170 THERMOSTATIC MIXING VALVE.
L-2	LAVATORY	RESTROOMS	--	---	1-1/2"	1-1/2"	1/2"	---	1/2"	VITREOUS CHINA WALL-HUNG LAVATORY, WITH FRONT OVERFLOW, SELF-DRAINING DECK, AND CONTOURED BACK AND SIDE SPLASH SHIELDS. HARD WIRED FAUCET WITH INTEGRATED SIDE MIXER AND 0.5GPM FLOW. PROVIDE WITH OFFSET GRID STRAINER DRAIN, COMMERCIAL GRADE HEAVY PATTERN WATER STOPS (NO PLASTIC PARTS), 17 GAUGE P-TRAP AND TAILPIECE. PROVIDE LEONARD LF-170 THERMOSTATIC MIXING VALVE.
UR-1	URINAL	RESTROOMS	--	---	2"	2"	3/4"	---	---	VITREOUS CHINA WALL MOUNTED SIPHON JET URINAL WITH 0.5 GPF CONCEALED, HARD-WIRED FLUSH VALVE.
UR-2	URINAL	RESTROOMS	--	---	2"	2"	3/4"	---	---	VITREOUS CHINA WALL MOUNTED SIPHON JET URINAL WITH 0.5 GPF CONCEALED, HARD-WIRED FLUSH VALVE. INSTALL PER ADA STANDARDS.
MR-1	MOP RECEPTOR	JAN. CLOSET	FIAT CHICAGO FAUCETS	TSB3000 305-VBRCP	3"	1-1/2"	3/4"	3/4"	---	MOP BASIN SHALL BE 24"x24"x12" HIGH WITH DROP FRONT. PROVIDE WITH STAINLESS STEEL DRAIN, STAINLESS STEEL CAPS ON ALL CURBS, 12" HIGH STAINLESS STEEL WALL GUARDS, HOSE/BRACKET, AND MOP HANGER BRACKET. PROVIDE WITH HOSE BRACKET AND MOP HANGER. SINK FAUCET WITH RIGID SPOUT WITH ATMOSPHERIC VACUUM BREAKER, PAIL HOOK, AND 3/4" HOSE THREAD.
MR-2	MOP RECEPTOR	JAN. CLOSET	FIAT CHICAGO FAUCETS	TSB3002 305-VBRCP	3"	1-1/2"	3/4"	3/4"	---	MOP BASIN SHALL BE 36"x36"x12" HIGH WITH DROP FRONT. PROVIDE WITH STAINLESS STEEL DRAIN, STAINLESS STEEL CAPS ON ALL CURBS, 12" HIGH STAINLESS STEEL WALL GUARDS, HOSE/BRACKET, AND MOP HANGER BRACKET. PROVIDE WITH HOSE BRACKET AND MOP HANGER. SINK FAUCET WITH RIGID SPOUT WITH ATMOSPHERIC VACUUM BREAKER, PAIL HOOK, AND 3/4" HOSE THREAD.
EWC-1	ELECTRIC WATER COOLER	PUBLIC AREAS	--	---	1-1/2"	1-1/2"	1/2"	---	---	HI-LO BARRIER FREE STAINLESS STEEL ELECTRIC WATER COOLER WITH BOTTLE FILLER WITH VANDAL RESISTANT FRONT PUSH BOTTONS AND FLEXI GUARD SAFETY BUBBLERS.
FD-1	FLOOR DRAIN	SEE DRAWINGS	JR SMITH	2010-A	3"	2"	---	---	---	ROUND TOP DUCO CAST IRON BODY WITH FLASHING COLLAR AND 6" ADJUSTABLE NICKEL BRONZE STRAINER, AND TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	SEE DRAWINGS	JR SMITH	2010-A-F38	3"	2"	---	---	---	ROUND TOP DUCO CAST IRON BODY WITH FLASHING COLLAR AND 9" RECESSED STRAINER, AND TRAP PRIMER CONNECTION.
RD-1	ROOF DRAIN	SEE DRAWINGS	JR SMITH	1010	---		---	---	---	15" DIAMETER CAST IRON DRAIN WITH LOW PROFILE CAST IRON DOME. PROVIDE WITH FLASHING CLAMP AND GRAVEL STOP. COORDINATE INSTALLATION REQUIREMENTS WITH EXISTING ROOF CONSTRUCTION. REFER TO PLANS FOR SIZES.
TD-1	TRENCH DRAIN	LOADING DOCK	ZURN	886-DGC	4"	---	---	---	---	80" LONG HIGH DENSITY POLYETHYLENE INTERLOCKING SECTIONS. WITH 6-1/4" REVEAL. PROVIDE WITH DUCTILE IRON SLOTTED GRATE.
AD-1	FLOOR DRAIN	SEE DRAWINGS	JR SMITH	3120	4"	2"	---	---	---	12"SQ TOP DUCO CAST IRON BODY WITH FLANGE AND NICKEL BRONZE 1/2 GRATE, ALUMINUM BOTTOM STRAINER. SET RIM FLUSH WITH FLOOR.

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE EXACT LOCATION, ELEVATION, AND QUANTITIES.
2. PLUMBING FIXTURES SHALL BE LABELED WATERSENSE PRODUCT, WHERE APPLICABLE, AS SPECIFIED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

PLUMBING EQUIPMENT SCHEDULE

MARK	DESCRIPTION	LOCATION	MANUFACTURER AND MODEL NO.	REMARKS
TP-1	ELECTRONIC TRAP PRIMER	SEE DRAWINGS	PPP MPB-500-115V	PRIME-TIME ELECTRONIC TRAP PRIMER, 1/2" INLET AND 1/2" OUTLET CONNECTIONS, WITH SURFACE MOUNTED 12"x12"x4" STEEL BOX, 2 AMPS CIRCUIT BREAKER, MANUAL OVER RIDE SWITCH/TEST BUTTON, PRE-SET 24 HOUR TIMER, ATMOSPHERIC VACUUM BREAKER, AND UL LISTED SOLENOID VALVE. INSTALL PRIMING VALVE MINIMUM 12" ABOVE FINISHED FLOOR. PROVIDE WATTS #05 MINI WATER HAMMER ARRESTOR ON WATER CONNECTION TO THE UNIT. PROVIDE DISTRIBUTION UNIT IF IT SERVES TWO FLOOR DRAINS.
TP-2	ELECTRONIC TRAP PRIMER	SEE DRAWINGS	PPP PTS-4	PRIME-TIME ELECTRONIC TRAP PRIMER, 3/4" INLET AND 1/2" OUTLET CONNECTIONS, WITH SURFACE MOUNTED 12"x12"x4" STEEL BOX, 2 AMPS CIRCUIT BREAKER, MANUAL OVER RIDE SWITCH/TEST BUTTON, PRE-SET 24 HOUR TIMER, ATMOSPHERIC VACUUM BREAKER, AND UL LISTED SOLENOID VALVE. INSTALL PRIMING VALVE MINIMUM 12" ABOVE FINISHED FLOOR. PROVIDE WATTS #05 MINI WATER HAMMER ARRESTOR ON WATER CONNECTION TO THE UNIT.
TP-3	ELECTRONIC TRAP PRIMER	SEE DRAWINGS	PPP PTS-6	PRIME-TIME ELECTRONIC TRAP PRIMER, 3/4" INLET AND 1/2" OUTLET CONNECTIONS, WITH FLUSH MOUNTED 14"x16"x3-3/8" STEEL BOX AND ACCESS DOOR, 2 AMPS CIRCUIT BREAKER, MANUAL OVER RIDE SWITCH/TEST BUTTON, PRE-SET 24 HOUR TIMER, ATMOSPHERIC VACUUM BREAKER, AND UL LISTED SOLENOID VALVE. INSTALL PRIMING VALVE MINIMUM 12" ABOVE FINISHED FLOOR. PROVIDE WATTS #05 MINI WATER HAMMER ARRESTOR ON WATER CONNECTION TO THE UNIT.
TMV-1	MIXING VALVE	SEE DRAWINGS	WATTS LFMM430	THERMOSTATIC MIXING VALVE, 0.5 GPM MINIMUM FLOW.
TMV-2	MIXING VALVE	SEE DRAWINGS	LEONARD 170-LF	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW.
ET-1	EXPANSION TANK	SEE DRAWINGS	AMTROL ST-5C-DD	ASME BUTYL RUBBER DIAPHRAGM TANK, 2.0 GAL CAPACITY, WITH 3/4" WATER CONNECTION.
ET-2	EXPANSION TANK	SEE DRAWINGS	AMTROL ST-20C-DD	ASME BUTYL RUBBER DIAPHRAGM TANK, 8.6 GAL CAPACITY, WITH 3/4" WATER CONNECTION.

NOTES:
1. ELECTRONIC DESIGN TYPE TRAP SEAL PRIMER DEVICES SHALL COMPLY WITH ASSE 1044. POTABLE WATER SUPPLY TRAP SEAL PRIMER VALVES SHALL COMPLY WITH ASSE 1018.

ELECTRIC WATER HEATER SCHEDULE

MARK	TYPE	TEMPERATURE		MANUFACTURER AND MODEL NO.	GAL	KW	VOLT	PH	LOCATION	REMARKS
		IN (°F)	OUT (°F)							
EWH-1	TANK TYPE	40	140	AO SMITH DEL-40	40	6.0	208	3	REFER TO PLANS	ELECTRIC WATER HEATER, WITH 40-GALLON GLASS-LINED STORAGE TANK CAPACITY, 6.0kW-3PH-208V. WATER HEATER SHALL HAVE A RECOVERY RATE OF 24 GHP AT 100°F TEMPERATURE RISE. TANK SHALL BE RATED FOR 150 PSI WORKING PRESSURE AND SHALL BE UL LISTED. HEATER SHALL BE FURNISHED WITH ALL OPERATING CONTROLS, 3/4" INLET AND OUTLET CONNECTIONS, TANK DRAIN, ANODE ROD, AND ASME RATED T&P RELIEF VALVE. HEATER TO COMPLY WITH ASHRAE STANDARDS FOR ENERGY EFFICIENCIES.
EWH-2	TANK TYPE	40	140	AO SMITH DVE-52	50	9.0	208	3	REFER TO PLANS	ELECTRIC WATER HEATER, WITH 50-GALLON GLASS-LINED STORAGE TANK CAPACITY, 9.0kW-3PH-208V. WATER HEATER SHALL HAVE A RECOVERY RATE OF 37 GHP AT 100°F TEMPERATURE RISE. TANK SHALL BE RATED FOR 150 PSI WORKING PRESSURE AND SHALL BE UL LISTED. HEATER SHALL BE FURNISHED WITH ALL OPERATING CONTROLS, 1 1/4" INLET AND OUTLET CONNECTIONS, TANK DRAIN, ANODE ROD, AND ASME RATED T&P RELIEF VALVE. HEATER TO COMPLY WITH ASHRAE STANDARDS FOR ENERGY EFFICIENCIES.
EWH-3	TANK TYPE	40	140	AO SMITH DVE-80	80	15.0	208	3	REFER TO PLANS	ELECTRIC WATER HEATER, WITH 80-GALLON GLASS-LINED STORAGE TANK CAPACITY, 15.0kW-3PH-208V. WATER HEATER SHALL HAVE A RECOVERY RATE OF 61 GHP AT 100°F TEMPERATURE RISE. TANK SHALL BE RATED FOR 150 PSI WORKING PRESSURE AND SHALL BE UL LISTED. HEATER SHALL BE FURNISHED WITH ALL OPERATING CONTROLS, 1 1/4" INLET AND OUTLET CONNECTIONS, TANK DRAIN, ANODE ROD, AND ASME RATED T&P RELIEF VALVE. HEATER TO COMPLY WITH ASHRAE STANDARDS FOR ENERGY EFFICIENCIES.
EWH-4	TANK TYPE	40	140	AO SMITH DVE-120	119	24.0	208	3	REFER TO PLANS	ELECTRIC WATER HEATER, WITH 120-GALLON GLASS-LINED STORAGE TANK CAPACITY, 24.0kW-3PH-208V. WATER HEATER SHALL HAVE A RECOVERY RATE OF 98 GHP AT 100°F TEMPERATURE RISE. TANK SHALL BE RATED FOR 150 PSI WORKING PRESSURE AND SHALL BE UL LISTED. HEATER SHALL BE FURNISHED WITH ALL OPERATING CONTROLS, 1 1/4" INLET AND OUTLET CONNECTIONS, TANK DRAIN, ANODE ROD, AND ASME RATED T&P RELIEF VALVE. HEATER TO COMPLY WITH ASHRAE STANDARDS FOR ENERGY EFFICIENCIES.

PLUMBING PUMP SCHEDULE

EQ. TAG	EQUIPMENT DESCRIPTION	ON EMERG. POWER	MOTOR				CAPACITY (GPM)	HEAD (FT)	LOCATION	MANUFACTURER & MODEL No.	COMMENTS
			HP	RPM	VOLTS	PHASE					
RP-001	HOT WATER CIRC.	N	1/40	3250	115	1	1.5	4	REFER TO PLANS	B&G NBF-12	PROVIDE WITH 24/7 TIMER AND AQUASTAT
SMP-001	ELEVATOR PIT PUMP	N	1/2	3450	115	1	50	30	REFER TO PLANS	WEIL 1456OSS	PROVIDE WITH OILSMART PUMP SWITCH

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
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PLUMBING SCHEDULES

DRAWN BY: **Author** CHECKED BY: **Checker**

SHEET NUMBER **P6.01**

VOLUME: **2**

3/19/2023 7:59:55 PM

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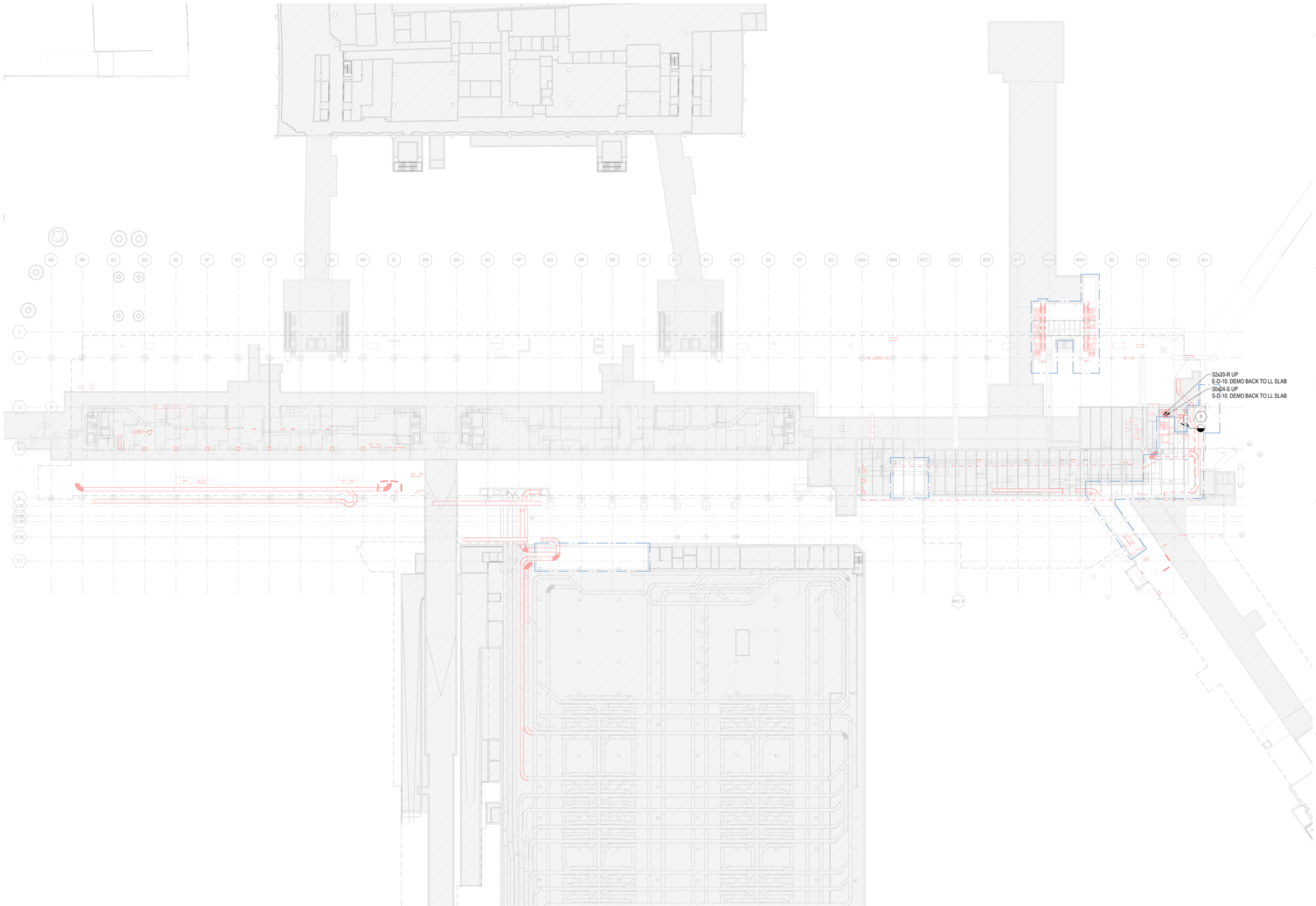
1 DEMOLISH DUCTWORK AS INDICATED AND TEMPORARILY CAP TO ACCOMMODATE SHAFT OFFSET SHOWN ON NEW WORK SHEET M2.1.02.2H.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A OVERALL MECHANICAL HVAC DEMOLITION PLAN - BASEMENT LEVEL

1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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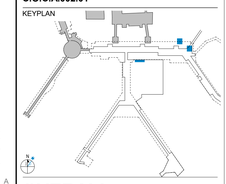
KEYPLAN



OVERALL MECHANICAL HVAC DEMOLITION PLAN - BASEMENT LEVEL

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SHEET NUMBER: **MD1.1.01** VOLUME: **2**

3/19/2023 11:16:03 PM

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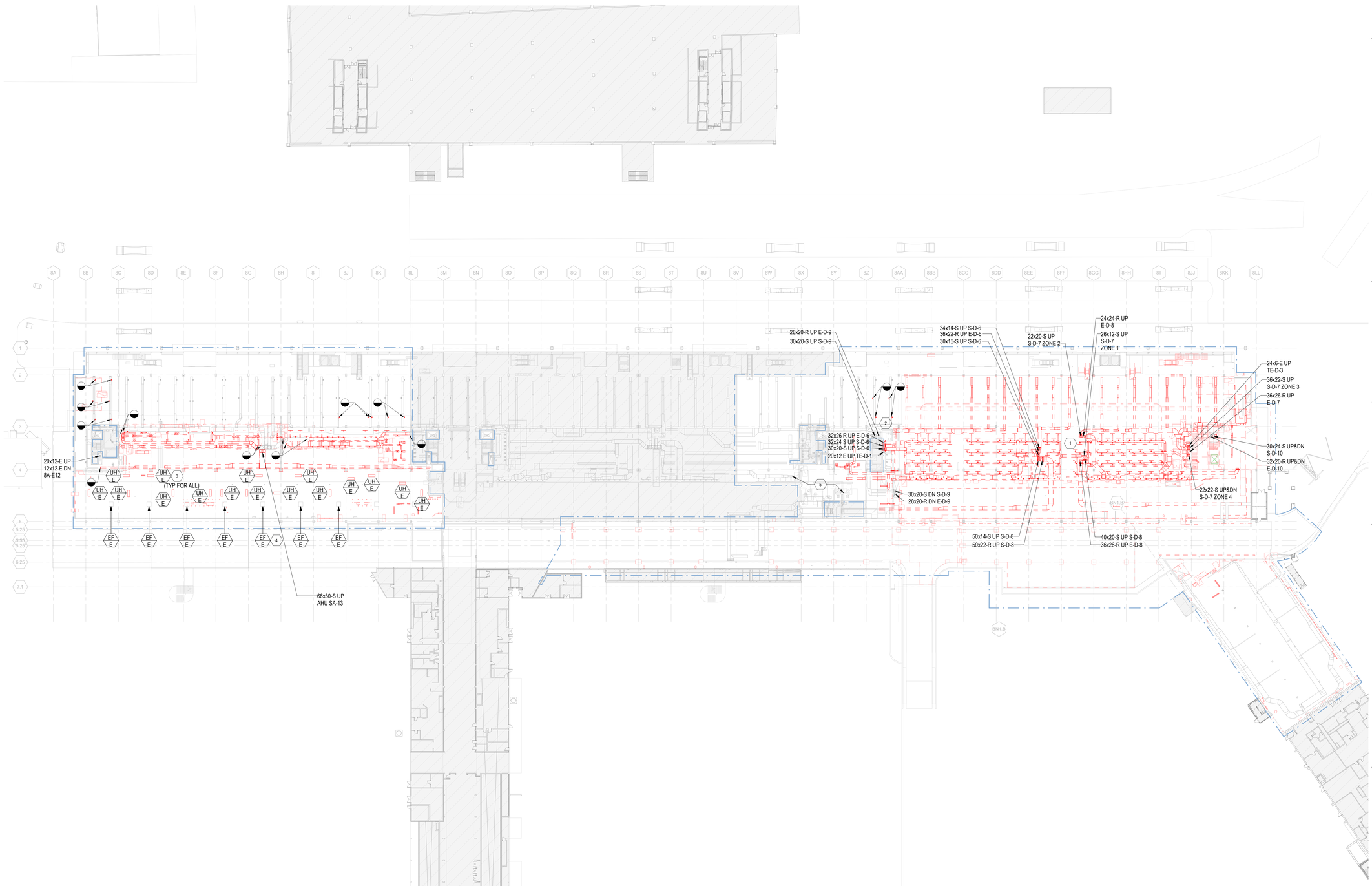
1 DEMOLISH ALL DUCTWORK AND DIFFUSERS ASSOCIATED WITH SD-7/ED-7 AND SD-8/ED-8 BACK TO UNIT.
2 DEMOLISH ALL DUCTWORK AND DIFFUSERS ASSOCIATED WITH SD-6/ED-6 BACK TO UNIT. MAINTAIN SHAFT SPACE FOR NEW RISERS AND DISTRIBUTION FROM AHU-6 TO LOWER LEVEL.
3 DEMOLISH ALL EXISTING UNIT HEATERS WITH ALL ASSOCIATED DUCTWORK, DIFFUSERS AND ACCESSORIES. TYPICAL FOR 16 UNIT HEATERS.
4 EXISTING EXHAUST FAN TO REMAIN. TYPICAL FOR 9 EXHAUST FANS.
5 ALL EXISTING DISTRIBUTION DUCTWORK AND DIFFUSERS FROM EXISTING AHU ON LL SERVING LL SUPPORT SPACES TO REMAIN.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A OVERALL MECHANICAL HVAC DEMOLITION PLAN - LOWER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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OVERALL MECHANICAL HVAC DEMOLITION PLAN - LOWER LEVEL

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SHEET NUMBER VOLUME: **2**

MD1.1.02

1 DEMOLISH DUCTWORK BACK TO RISER. CAP TEMPORARILY FOR FUTURE CONNECTION SHOWN ON NEW WORK PLANS.
2 DEMOLISH EXISTING DUCTWORK BACK TO POINT OF DISCONNECTION AND CAP PERMANENTLY TO ACCOMODATE NEW WALL AS SHOWN ON NEW WORK PLAN.

GENERAL NOTE:

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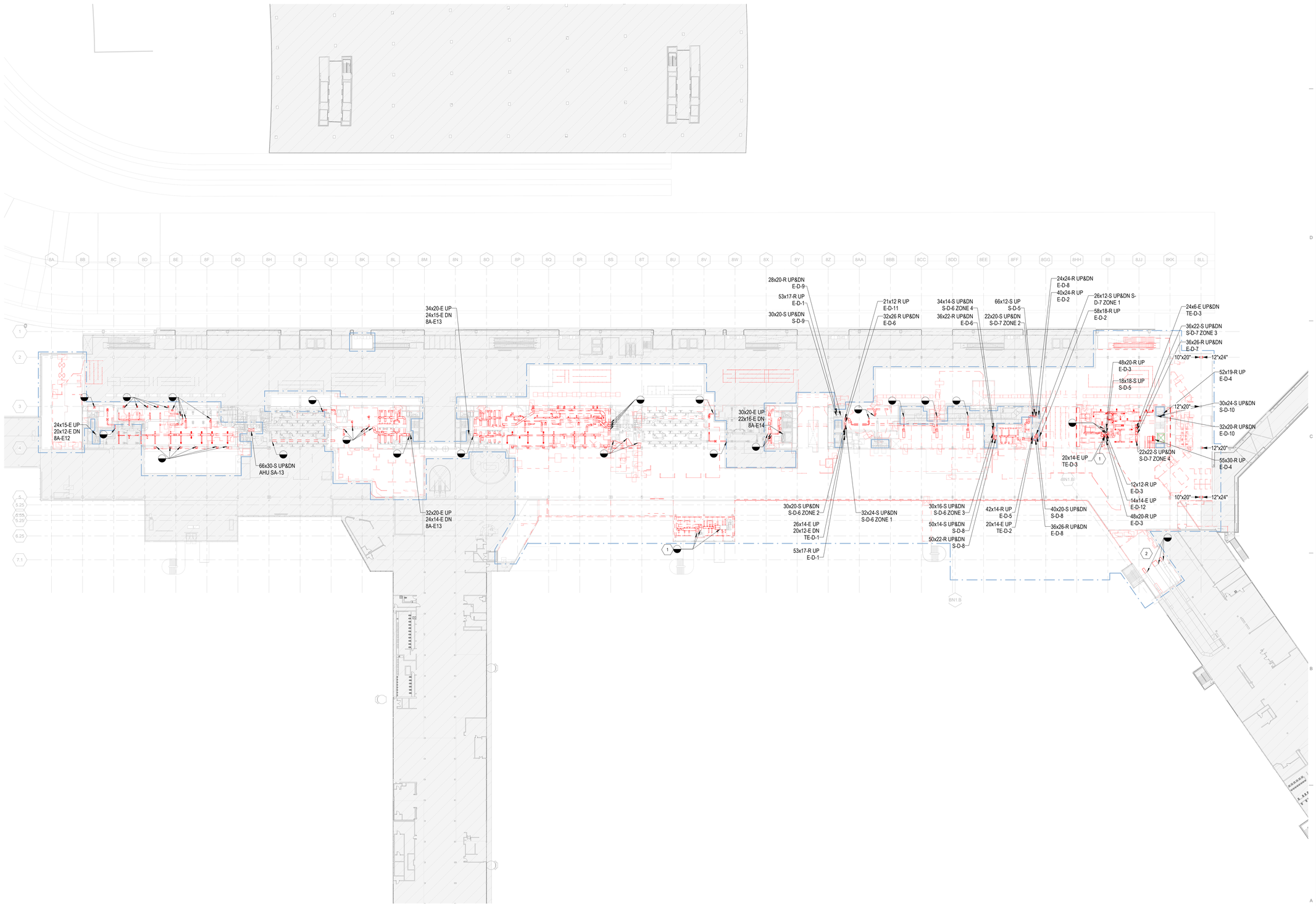

1A OVERALL MECHANICAL HVAC DEMOLITION PLAN - UPPER LEVEL
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0 16'-0" 32'-0" 64'-0" 128'-0"

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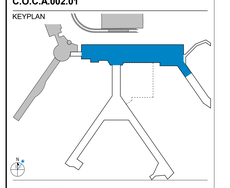
KEYPLAN



OVERALL MECHANICAL HVAC DEMOLITION PLAN - UPPER LEVEL

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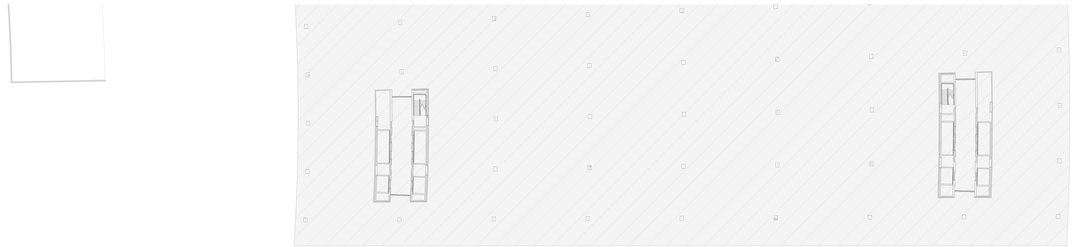
SHEET NUMBER VOLUME: **2**

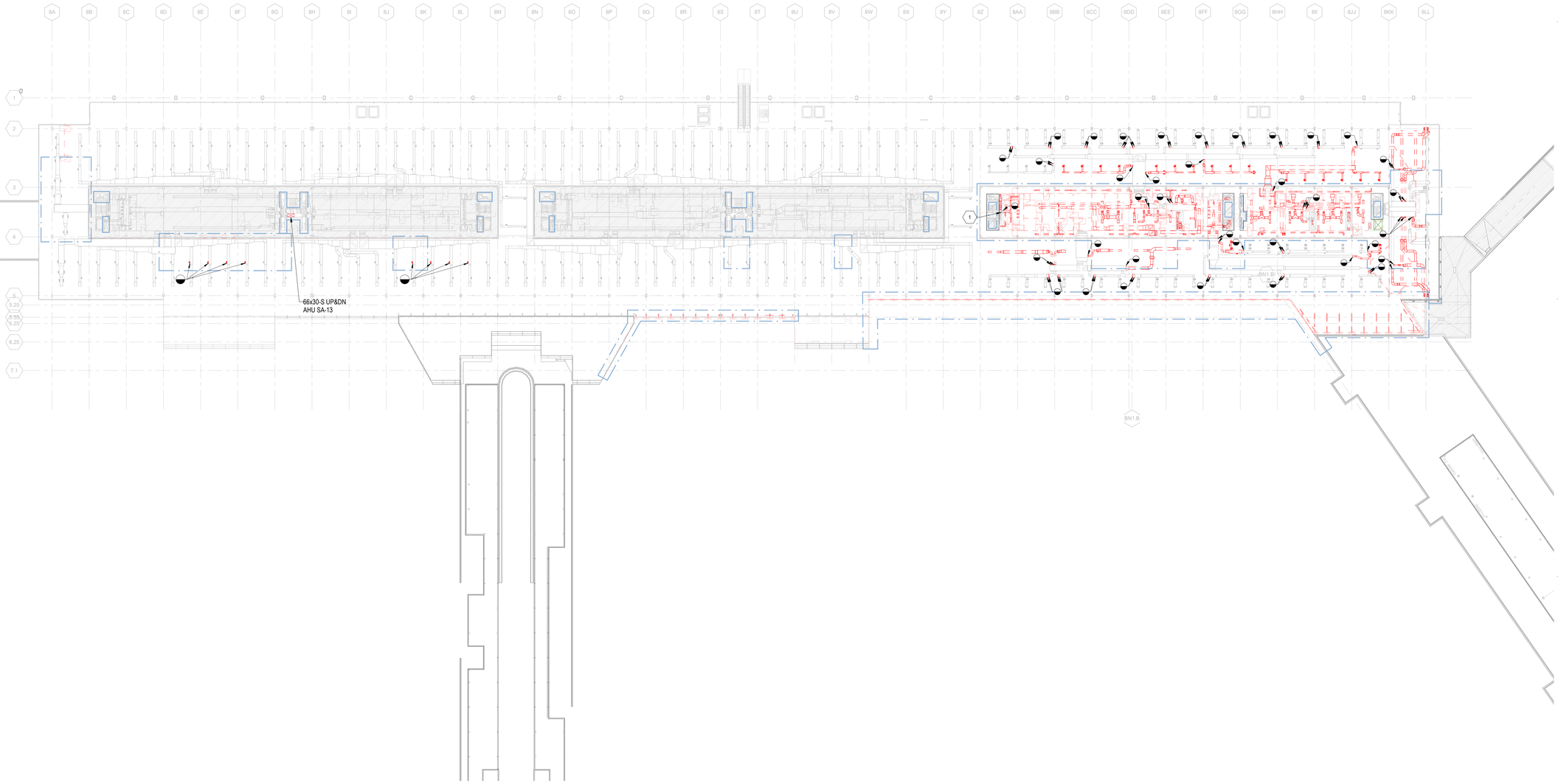
MD1.1.03

1 DEMOLISH DUCTWORK BACK TO RISER. CAP PERMANENTLY.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.





1A OVERALL MECHANICAL HVAC DEMOLITION PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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KEYPLAN

OVERALL MECHANICAL HVAC DEMOLITION PLAN - MEZZANINE LEVEL

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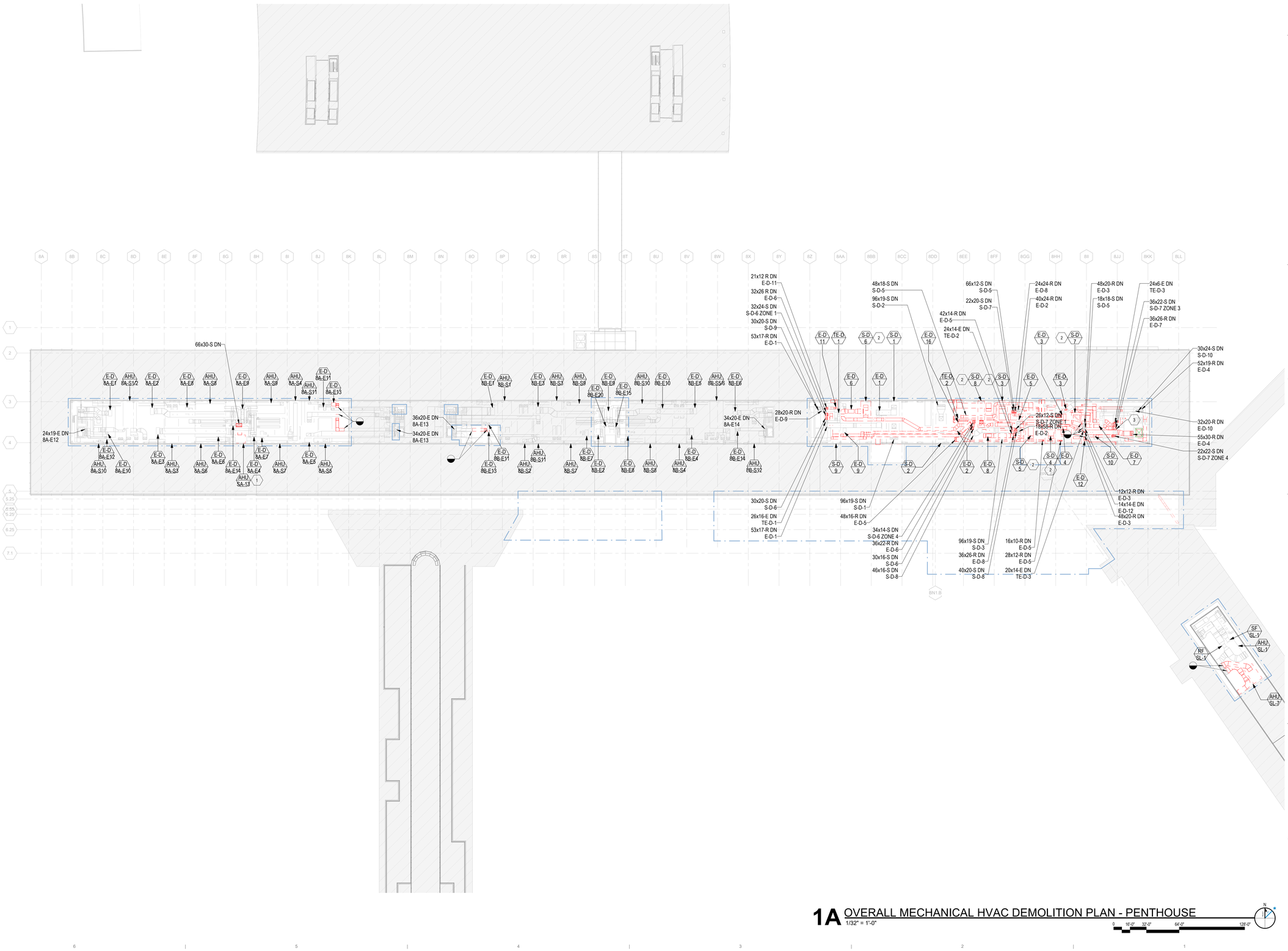
1 DEMOLISH ALL DUCTWORK AND DIFFUSERS ASSOCIATED WITH AHU-SA-13. MAINTAIN SHAFT SPACE FOR NEW RISERS AND DISTRIBUTION FROM NEW AHU-SA-13 TO LOWER LEVEL.
2 DEMOLISH EXISTING UNIT WITH ASSOCIATED DUCTWORK AND ACCESSORIES AS SHOWN.
3 EXISTING SUPPLY AND RETURN DIFFUSERS TO REMAIN. CONTRACTOR TO DEMOLISH ALL EXISTING DUCTWORK BACK TO MAIN. PATCH AND SEAL TO MATCH EXISTING. PROVIDE NEW DUCTWORK TO SERVE OCCUPIABLE SPACE ON PENTHOUSE LEVEL AND CONNECT TO AHU-6 AND DIFFUSERS.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A OVERALL MECHANICAL HVAC DEMOLITION PLAN - PENTHOUSE
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

OVERALL MECHANICAL HVAC DEMOLITION PLAN - PENTHOUSE

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER: **MD1.1.05** VOLUME: **2**

3/22/2023 1:22:54 PM

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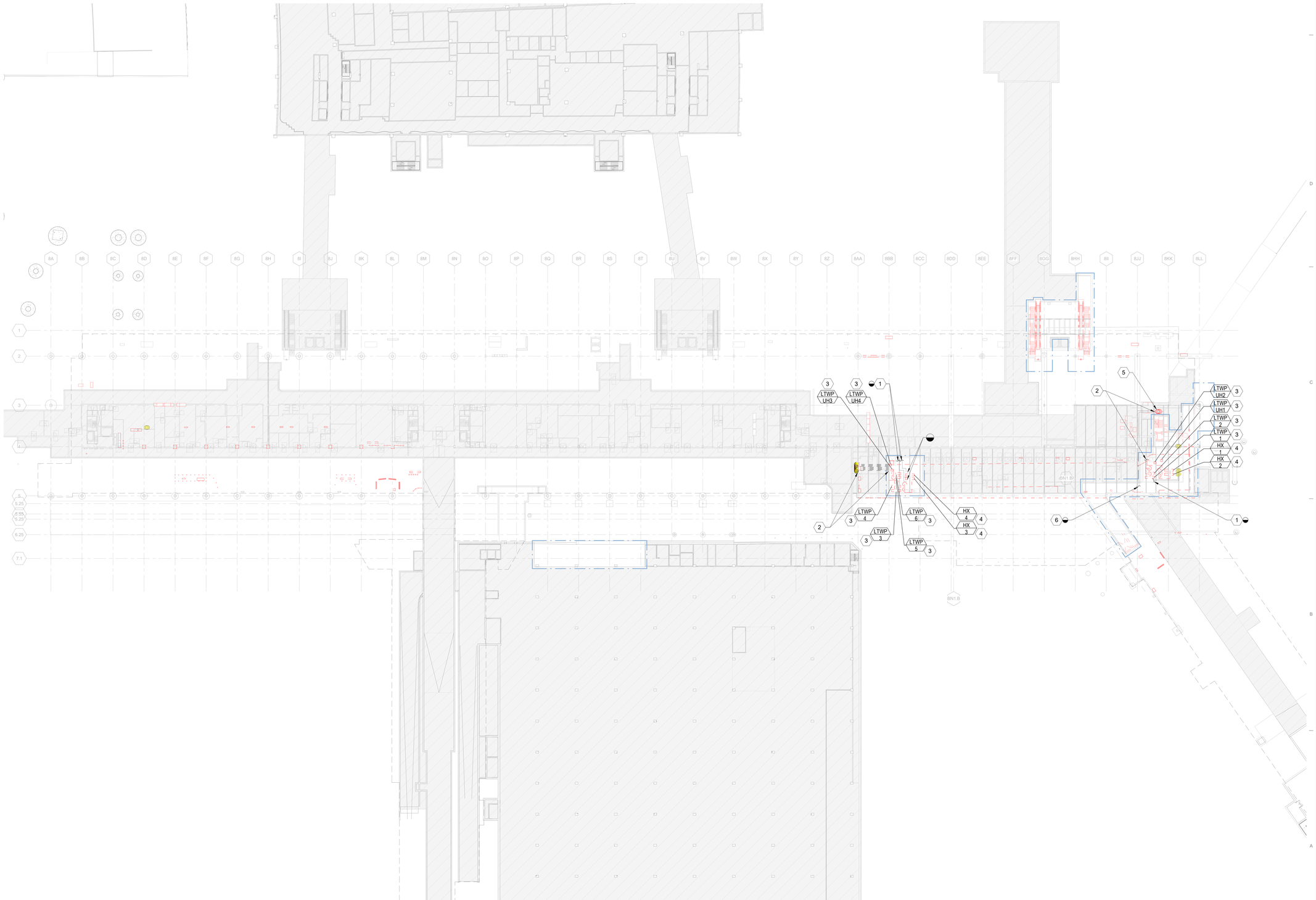
KEYNOTES:

1. EXISTING HTWS & HTWR TO/FROM RING TUNNEL.
2. DEMOLISH EXISTING LTWS & LTWR GOING TO RISER AND INTO PENTHOUSE.
3. DEMOLISH EXISTING LTWS PUMP.
4. DEMOLISH EXISTING SHELL AND TUBE HIGH TEMPERATURE HEAT EXCHANGERS WHICH PROVIDE LOW TEMPERATURE HOT WATER TO TERMINAL 3 MECHANICAL PENTHOUSE. CLEAN AND TEMPORARILY CAP CONNECTIONS.
5. DEMOLISH EXISTING CHWS & CHWR GOING TO RISER AND INTO PENTHOUSE.
6. EXISTING CHWS & CHWR FROM RING TUNNEL TO CONCOURSE L.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A OVERALL MECHANICAL PIPING DEMOLITION PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

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STAMPING CONSULTANT
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MILHOUSE

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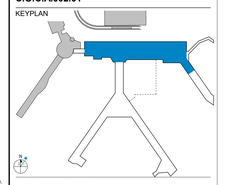
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



OVERALL MECHANICAL PIPING DEMOLITION PLAN - BASEMENT LEVEL

DRAWN BY: **WB** CHECKED BY: **MAN**
SHEET NUMBER: **MD1.2.01** VOLUME: **2**

3/22/2023 1:23:15 PM

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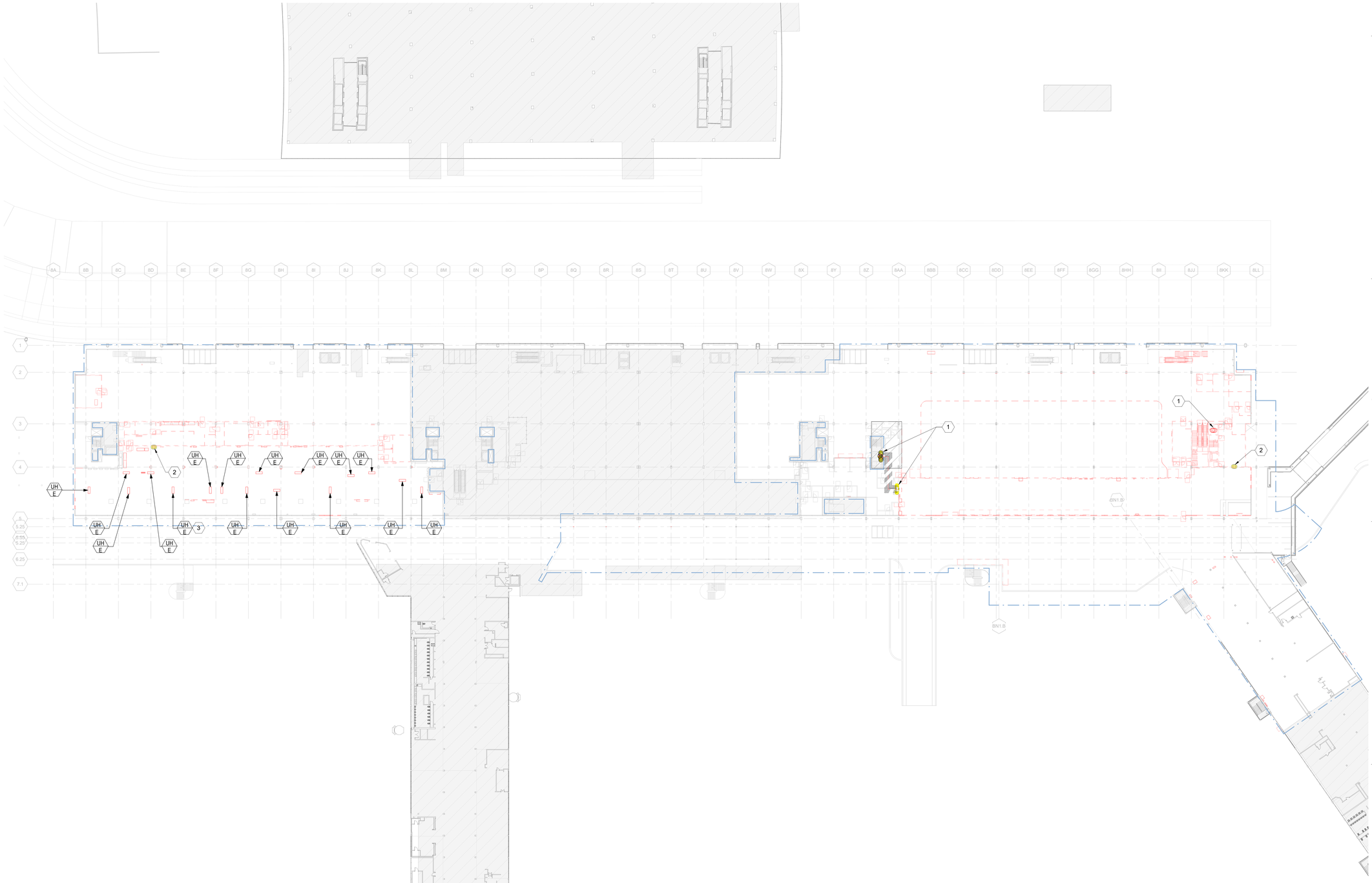
KEYNOTES:

1. DEMO RISERS PER NOTES IN DWG MD1.2.01
2. KEEP EXISTING LTWS & LTWR RISERS INTACT. WILL BE RELOCATED BY MECHANICAL CONTRACTOR. REFER TO DWG M1.2.02
3. DEMOLISH ALL EXISTING UNIT HEATERS WITH ALL ASSOCIATED PIPING, VALVES, AND ACCESSORIES. TYPICAL OF 16

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A OVERALL MECHANICAL PIPING DEMOLITION PLAN - LOWER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

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ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

OVERALL MECHANICAL PIPING DEMOLITION PLAN - LOWER LEVEL

DRAWN BY: **WB** CHECKED BY: **MAN**
SHEET NUMBER **MD1.2.02** VOLUME: **2**

3/22/2023 1:23:41 PM

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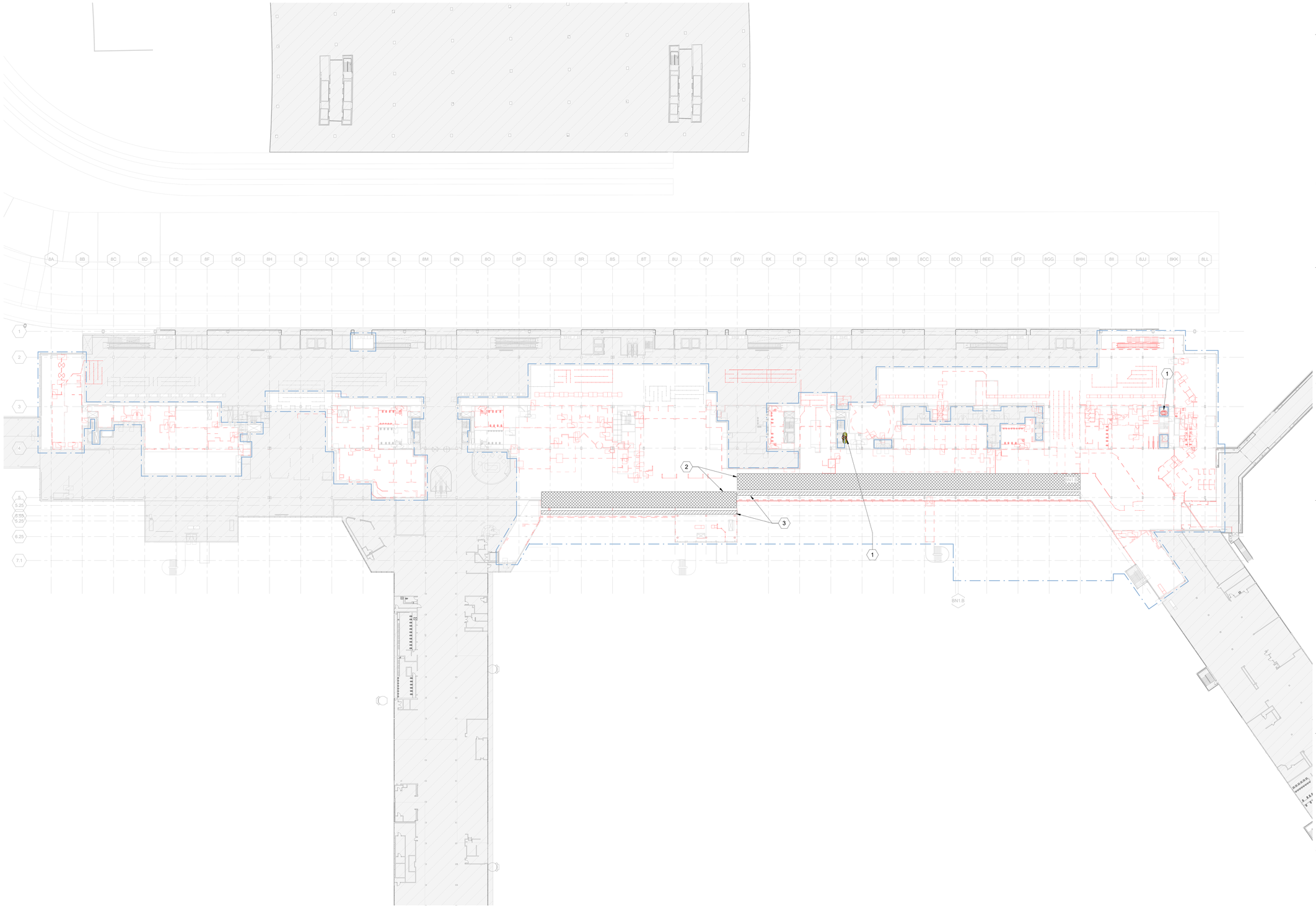
KEYNOTES:

1. DEMO RISERS PER NOTES IN DWG MD1.2.01
2. DEMO EXISTING RADIANT PANELS IN THE INTERIOR PORTION OF THE CEILING. CONNECTING PIPE SHALL BE DEMO'D UP TO THE MAIN BRANCH AND CAPPED.
3. EXISTING RADIANT PANELS ALONG THE CURRENT PERIMETER ARE TO REMAIN IN PLACE.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A OVERALL MECHANICAL PIPING DEMOLITION PLAN - UPPER LEVEL

1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

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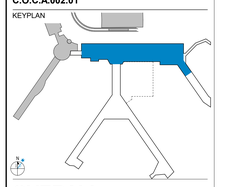
KEYPLAN



OVERALL MECHANICAL PIPING DEMOLITION PLAN - UPPER LEVEL

DRAWN BY: **WB** CHECKED BY: **MAN**
SHEET NUMBER VOLUME: **2**

MD1.2.03

3/19/2023 11:19:46 PM

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KEYNOTES:

1. DEMO RISERS PER NOTES IN DWG MD1.2.01
2. DEMO EXISTING RADIANT CEILING PANELS.

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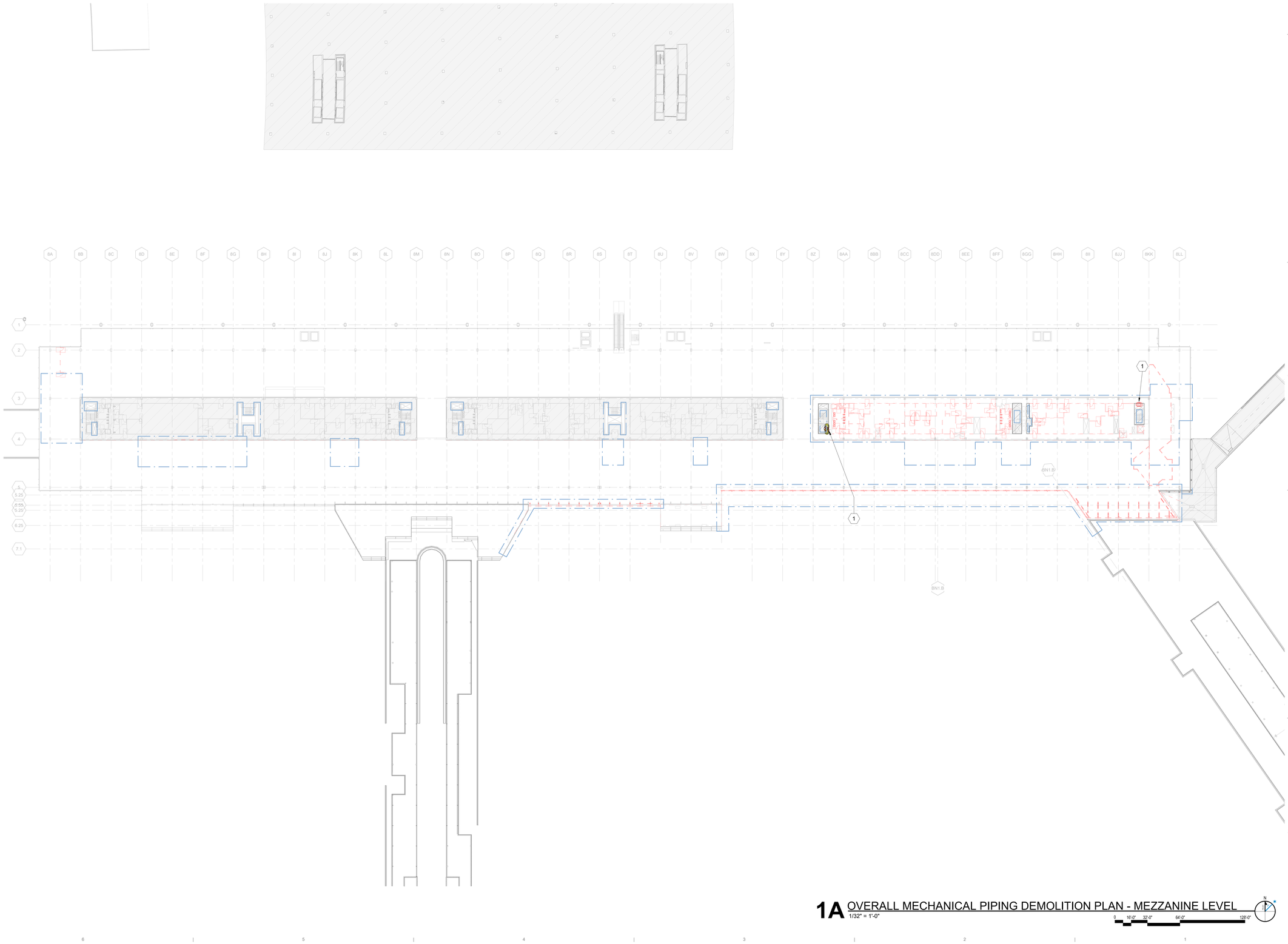

1A OVERALL MECHANICAL PIPING DEMOLITION PLAN - MEZZANINE LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

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MILHOUSE

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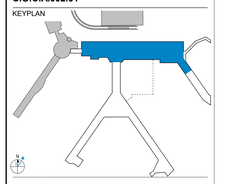
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



OVERALL MECHANICAL PIPING DEMOLITION PLAN - MEZZANINE LEVEL

DRAWN BY: **WB** CHECKED BY: **MAN**
SHEET NUMBER VOLUME: **2**

MD1.2.04

3/19/2023 11:20:21 PM

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KEYNOTES:

1. REMOVE EXISTING LTWR & LTWS PIPING SERVING EXISTING AIR HANDLER. REMOVE FROM UNIT BACK TO RISER WHICH WILL ALSO BE DEMOLISHED. REMOVAL TO INLCUDE ALL ASSOCIATED ISOLATION VALVES, PIPE, VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, SENSORS, ETC. COIL TO BE REMOVED AS PART OF THE OVERALL UNIT DEMOLITION.
2. REMOVE EXISTING CHWR & CHWS PIPING SERVING EXISTING AIR HANDLER. REMOVE FROM UNIT BACK TO RISER WHICH WILL ALSO BE DEMOLISHED. REMOVAL TO INLCUDE ALL ASSOCIATED ISOLATION VALVES, PIPE, VALVING, INSULATION, HANERGS, SUPPORTS, GUAGES, SENSORS, ETC. COIL TO BE REMOVED AS PART OF THE OVERALL UNIT DEMOLITION.
3. REMOVE EXISTING LPS PIPING SERVING EXISTING AIR HANDLER. REMOVE FROM UNIT BACK TO RISER WHICH WILL ALSO BE DEMOLISHED. REMOVAL TO INLCUDE ALL ASSOCIATE ISOLATION VALVES, PIPE, VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, SENSORS, ETC. COIL TO BE REMOVED AS PART OF THE OVERALL UNIT DEMOLITION.
4. THE EXISTING LOW TEMPERATURE HOT WATER COIL CIRCULATION PUMP SERVING THE AIR HANDLER TO BE REMOVED COMPLETELY AT THIS LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR TO CONFIRM POWER TERMINATION PRIOR TO REMOVAL. ELECTRICAL CONTRACTOR TO REMOVE ALL POWER WIRING AND ASSOCIATED DISCONNECT SWITCH. REMOVAL TO INLCUDE ALL ASSOCIATED ISOLATION VALVES, PIPE, VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, SENSORS, CONTROLS, ETC.
5. DISCONNECT THE EXISTING LTWS & LTWR BRANCH LINE TO THE PENTHOUSE UNIT HEATERS. TEMPORARILY CAP PIPES FOR FUTURE RECONNECTION.
6. REMOVE THE EXISTING EXPANSION TANK. TEMPORARILY CAP PIPES FOR FUTURE RECONNECTION.
7. DISONNECT PIPES TO EXISTING UNIT AND TEMPORARILY CAP FOR FUTURE CONNECTION TO NEW UNIT. REFER TO DWG. M2.2.05.3H.

GENERAL NOTE:

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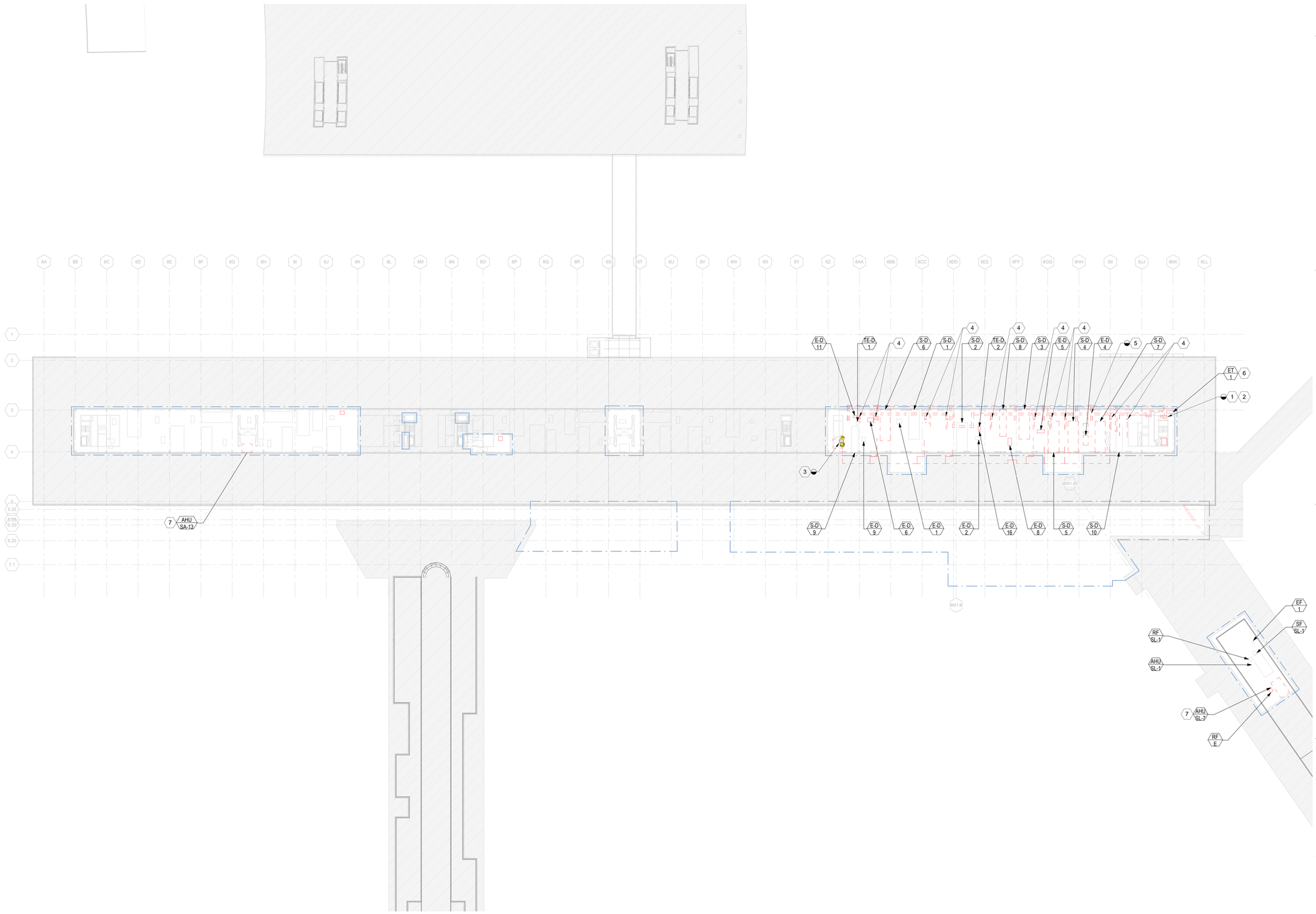

1A OVERALL MECHANICAL PIPING DEMOLITION PLAN - PENTHOUSE

1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

DRAFT - PRE-DECISIONAL

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MILHOUSE

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

OVERALL MECHANICAL PIPING DEMOLITION PLAN - PENTHOUSE

DRAWN BY: **WB** CHECKED BY: **MAN**
SHEET NUMBER VOLUME: **2**

MD1.2.05

3/22/2023 1:24:05 PM

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ABBREVIATION	DESCRIPTION
Ø	DIAMETER OR PHASE
1PH	SINGLE-PHASE
(L1)	1 ACOUSTICAL DUCT LINING
(L2)	2 ACOUSTICAL DUCT LINING
(N)	NEW
(R)	REMOVE EXISTING
°F	DEGREE FARENHEIT
2WAY	TWO-WAY
3WAY	THREE-WAY
4WAY	FOUR-WAY
A/C	AIR CONDITION
A/E	ARCHITECT/ENGINEER
AAV	AUTOMATIC AIR VENT
ABAN	ABANDON
ABBRV	ABBREVIATION
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	ACCESSIBLE, AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACS	AUTOMATIC CONTROL SYSTEM
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR, AREA DRAIN
ADA	AMERICAN DISABILITIES ACT
ADD	AUTOMATIC AIR DAMPER
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURE STATION
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCH
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
AMP	AMPHERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECT
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION & AIR CONDITIONING ENGINEERS
ASSN	ASSOCIATION
ASV	ANGLE STOP VALVE
ATM	ATMOSPHERE
ATMV	ATMOSPHERIC VENT
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
BAL	BALANCE
BAS	BUILDING AUTOMATION SYSTEM
BBD	BOILER BLOWDOWN
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
BFW	BOILER FEEDWATER
BFWP	BOILER FEEDWATER PUMP
BH	BASIN HEATER
BHP	BRAKE HORSE POWER
BL	MTH BELL MOUTH
BLDG	BUILDING
BLDWN	BLOWDOWN
BLR	BOILER
BLW	BELOW / UNDERGROUND
BM	BEAM
BMS	BLDG MANAGEMENT SYSTEM
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BALL VALVE
BW	BASIN WATER
BWT	BASIN WATER TEMP
BYP	BY-PASS
C	CONVERTER
C/C	CENTER TO CENTER
CAB	CABINET
CAP	CAPACITY, CAPACITOR
CAV	CONSTANT AIR VOLUME
CB	CHILLED BEAM
CC	COOLING COIL
CCW	COUNTERCLOCKWISE
CD	CEILING DIFFUSER, CONSTRUCTION DOCUMENT
CF	CONTRACTOR FURNISHED
CFC	CHLOROFLUOROCARBONS
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMP
CFSD	COMBINATION FIRE-SMOKE DAMPER
CG	CEILING GRILL
CH	CHILLER
CHF	CHEMICAL FEED
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CJ	CONSTRUCTION JOINT
CL	CENTERLINE, CLOSE, CLOSET
CLASS	CLASSIFICATION
CLG	CEILING
CLPS	CLEAN LOW PRESS STEAM
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CND	CONDENSER WATER
CNDR	CONDENSER WATER RETURN
CNDS	CONDENSATE DRAIN, CONDENSER WATER SUPPLY
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONDR	CONDENSOR
CONN	CONNECT, CONNECTION
CONT	CONTINUATION / CONTINUOUS
CONV	CONVECTOR
COORD	COORDINATE
COP	COEFFICIENT OF PERFORMANCE
CP	CONTROL PANEL, CHROME PLATED
CPF	CHEMICAL POT FEEDER
CRAC	COMPUTER ROOM COMPRESSORIZED UNIT
CRAH	COMPUTER ROOM AIR HANDLING UNIT
CRP	CONDENSATE RETURN PUMP
CRU	COMPUTER ROOM UNIT
CSR	CURRENT SENSING RELAY
CT	COOLING TOWER
CTP	COOLING TOWER PUMP
CTR	COOLING TOWER RETURN
CTRT	COOLING TOWER RETURN TEMPERATURE
CTS	COOLING TOWER SUPPLY
CTST	COOLING TOWER SUPPLY TEMPERATURE
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	CONSTANT VOLUME
CWP	CONDENSER WATER PUMP
CWS	CONDENSER WATER SUPPLY
(D)	EXISTING TO BE DEMOLISHED
D	DROP
DAP	DUCT ACCESS PANEL
dB	DECIBEL
DB	DRY BULB
DBA	UNIT OF SOUND LEVEL
DBT	DRY BULB TEMPERATURE
DC	DRY AIR COOLER
DCC	DRY COOLER
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DEG	DEGREE
DEGF	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DES	DESIGNATION

ABBREVIATION	DESCRIPTION
DESCR	DESCRIPTION
DET	DETAIL
DG	DOOR GRILLE
DH	DOMESTIC WATER HEATER
DHC	DOMESTIC HOT WATER RECIRCULATION
DHW	DOMESTIC HOT WATER
DI	DISTILLED WATER
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DIW	DEIONIZED WATER
DMPR	DAMPER
DN	DOWN
DP	DEW POINT
DPS	DIFFERENTIAL PRESSURE SENSOR
DPT	DEW POINT TEMPERATURE
DR	DRAIN
DRLV	DOOR LOUVER
DS	DISCONNECT SWITCH
DT	DRAW THROUGH
DW	DOMESTIC WATER
DWG	DRAWING
DX	DUPLEX
DX	DX SPLIT SYSTEM (EVAPORATOR UNIT)
DXC	DX SPLIT SYSTEM (CONDENSING UNIT)
(E)/EX	EXISTING TO REMAIN
EA	EACH, EXHAUST AIR
EAD	EXHAUST AIR DAMPER
EAR	EXHAUST AIR REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRIC CONTRACTOR
ECU	EVAPORATIVE COOLING UNIT
ED	EXHAUST DIFFUSER
EDB	ENTERING DRY BULB TEMPERATURE
EDBT	ENTERING DRY BULB TEMP
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
EL	ELEVATION, ELEVATOR LOBBY
ELEC	ELECTRIC, ELECTRICAL
ENT	ENTERING
EQ	EQUAL
(ER)	EXISTING TO BE RELOCATED
ER	EXHAUST REGISTER
ES	ELECTRIC SUPPLY
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWBT	ENTERING WET BULB TEMP
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMP
EXH	EXHAUST
EXHA	EXHAUST AIR
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT, FIRE SERVICE, FEMALE, FAN
F/O	FLAT OVAL
FA	FACE, FREE AREA, FIRE ALARM
FAI	FRESH AIR INLET (INTAKE)
FAS	FIRE ALARM SYSTEM
FB	FROM BELOW
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FDR	FLOOR DRAIN
FF	FINAL FILTER
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FIN	FLR FINISH FLOOR
FIN GR	FINISH GRADE
FL / FLR	FLOOR
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FLTR	FILTER
FMD	FLOW MEASURING DEVICE
FOP	FUEL OIL PUMP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOTK	FUEL OIL STORAGE TANK
FOV	FUEL OIL VENT
FP	FIREPROOF
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPT	FAN POWERED TERMINAL
FR	FIRE RATING, FLOOR RECEPTACLE
FRA	FIRE RATED ASSEMBLY
FSD	COMBINATION FIRE/SMOKE DAMPER
FSS	FLOW SENSING SWITCH
FT	FOOT, FEET
FT/LB	FOOT PER POUND
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
FW	FIRE WALL
G	NATURAL GAS, GROUND, GREEN
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCHWR	GLYCOL CHILLED WATER RETURN
GCHWS	GLYCOL CHILLED WATER SUPPLY
GCWR	GLYCOL CONDENSER WATER RETURN
GCWS	GLYCOL CONDENSER WATER SUPPLY
GFU	GLYCOL FILL UNIT
GHWR	GLYCOL HOT WATER RETURN
GHWS	GLYCOL HOT WATER SUPPLY
GLP	GLYCOL LOOP PUMP
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GRL	GRILLE
GS	GLYCOL SUPPLY
GSNK	GOOSENECK
GV	GRAVITY VENT
GWH	GAS WATER HEATER
H	HIGH, HUMIDITY
HC	HEATING COIL
HD	HEAD
HFD	HORIZONTAL FIRE DAMPER
HHW	HEATING HOT WATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HOA	HANDS-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPR	HIGH PRESS. STEAM RETURN
HPS	HIGH PRESSURE STEAM
HSKPG	HOUSEKEEPING
HT	HEIGHT
HTG	HEATING
HTHW	HIGH TEMP HOT WATER
HTP	HEAT TRANSFER PACKAGE
HTWC	HEATING WATER CIRCULATION
HTWR	HIGH TEMP HOT WATER RETURN
HTWS	HIGH TEMP HOT WATER SUPPLY
HUM	HUMIDIFIER
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HW	HOT WATER
HWCP	HOT WATER CIRCULATION PUMP
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIMENSION
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
INWC	INCHES WATER COLUMN
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER

ABBREVIATION	DESCRIPTION
KW	KILOWATT
KWH	KILOWATT HOUR
KX	KITCHEN EXHAUST
L	LINED DUCTWORK
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LBS	POUND(S)
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB TEMPERATURE
LF	LINEAR FEET (FOOT)
LFD	LAMINAR FLOW DIFFUSER
LH	LATENT HEAT
LHS	LEFT HAND SIDE
LIN	LINEAR
LIN FT	LINEAR FEET
LL	LOW LEVEL
LLS	LOW LEVEL SWITCH
LPC	LOW PRESSURE CONDENSATE
LPR	LOW PRESS STEAM RETURN
LPS	LOW PRESSURE STEAM
LR	LOW RESISTOR
LRV	LOUVERED ROOF VENT
LTH	LENGTH
LVDR	LOUVER DOOR
LVR	LOUVER
LWBT	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAINT	MAINTENANCE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUH
MBTU	THOUSAND BTU
MBTUH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
ME	MECHANICAL ENGINEER
MECH	MECHANICAL
MED	MEDIUM
MER	MECHANICAL EQUIPMENT ROOM
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MFSD	MODULATING FIRE SMOKE DAMPER
MHP	MOTOR HORSEPOWER
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MOD	MODEL
MOT	MOTOR
MP	MEDIUM PRESSURE
MPC	MEDIUM PRESS CONDENSATE
MPR	MEDIUM PRESS STEAM RETURN
MPS	MEDIUM PRESSURE STEAM
MS	MOTOR STARTER
MTD	MEAN TEMP DIFFERENCE
MTGHT	MOUNTING HEIGHT
MTWR	MED TEMP HOT WATER RETURN
MTWS	MED TEMP HOT WATER SUPPLY
MU	MAKE UP WATER LINE
MV	MANUAL VENT
MVC	THERMOSTATIC MIXING VALVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NOPN	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPWT	OPERATING WEIGHT
OV	OUTSIDE VELOCITY
P	PUMP
PA	PIPE ANCHOR
PCF	POUNDS PER CUBIC FOOT
PCHWR	PROCESS CHILLED WATER RETURN
PCHWS	PROCESS CHILLED WATER SUPPLY
PD	PRESSURE DROP/DIFFERENCE
PEN	PENETRATION
PERF	PERFORATED
PF	PRE-FILTER
PG	PRESSURE GAUGE
PH	PHASE
PHC	PREHEAT COIL
PHWR	PRIMARY HOT WATER RETURN
PHWS	PRIMARY HOT WATER SUPPLY
PL	PLATE
PLBG	PLUMBING
POC	POINT OF CONNECTION
POS	POSITIVE
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	LBS PER SQUARE INCH, ABSOLUTE
PSIG	LBS PER SQUARE INCH, GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
R	RISE
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RC	REHEAT COIL
RCHWR	RADIANT CHILLED WATER RETURN
RCHWS	RADIANT CHILLED WATER SUPPLY
RCP	REFLECTED CEILING PLAN
RD	RETURN DIFFUSER
RDR	ROOF DRAIN
REC	RECESSED
REFG	REFRIGERATION SYSTEM
REFGR	REFRIGERATION RETURN
REFGS	REFRIGERATION SUPPLY
REFR	REFRIGERATION
REG	REGISTER
REM	REMOVABLE
REQD	REQUIRED
RFGT	REFRIGERANT
RG	RETURN GRILL
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RHHWR	RADIANT HEATING HOT WATER RETURN
RHHWS	RADIANT HEATING HOT WATER SUPPLY
RLA	RUNNING LOAD AMPERES
RLL	REFRIGERANT LIQUID LINE
RM	ROOM
ROT	ROTATION
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RRV	REFRIGERANT RELIEF VENT
RSL	REFRIGERANT SUCTION LINE
S	SLAB
SA	SUPPLY AIR, SHOCK ABSORBER
SAD	SEE ARCHITECTURAL DRAWINGS
SAR	SUPPLY AIR REGISTER
SAU	SOUND ATTENUATING UNIT
SCHW	SECONDARY CHILLED WATER
SCHWR	SECONDARY CHILLED WATER RETURN
SCHWS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER, SUPPLY DIFFUSER
SDMPR	SMOKE DAMPER
SE	STRUCTURAL ENGINEER
SEER	SEASONAL ENERGY EFFICIENCY
SF	SQUARE FOOT (FEET), SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SQ FT	SQUARE FEET

ABBREVIATION	DESCRIPTION
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
ST	SOUND TRAP (ATTENUATOR), SURFACE TEMPERATURE
STL	STEEL
STM	STEAM
STRUC	STRUCTURAL
T	THROAT
TA	TRANSFER AIR
TB	TO LEVEL BELOW
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TF	TRANSFER FAN
TFS	TOWER FILTRATION SYSTEM
TG	TRANSFER GRILLE
THK	THICK
TNL	TUNNEL
TS	TOP SPEED
TSTAT	THERMOSTAT
TV	TURNING VANES, TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLT, VENT, VIDEO
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VC	VENT COIL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE/CONTROLLER
VIF	VERIFY IN FIELD
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WF	WATER FILTER
WFR	WATER FILTER RETURN
WFS	WATER FILTER SUPPLY
WG	WATER GAUGE OR WALL GRILLE
WMS	WIRE MESH SCREEN
WS	WATER SOFTENER
WT	WEIGHT
WW	WELL WATER

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NOT FOR CONSTRUCTION

CDA
Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

MECHANICAL NOTES, GRAPHIC KEYS, ABBREVIATIONS

DRAWN BY: **KS** CHECKED BY: **HC**
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DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
32x20 / 12x6	DOUBLE-LINE AND SINGLE-LINE RECTANGULAR DUCT, FIRST NUMBER INDICATES SIDE IN VIEW IN INCHES, SECOND NUMBER INDICATES SIDE IN DEPTH IN INCHES
24ø / 12ø	DOUBLE-LINE AND SINGLE-LINE ROUND DUCT, NUMBER INDICATES DIAMETER IN INCHES
32x20|L2| / 12x6|L2|	ACOUSTICAL LINED DUCTWORK, SIZES GIVEN ARE CLEAR INSIDE DIMENSIONS IN INCHES
R or D / R or D	INCLINED RISE OR DROP IN DIRECTION OR AIR FLOW
	EXISTING DUCTWORK
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	DIRECTION OF AIR FLOW
	TRANSITION / REDUCER
	RADIUS ELBOW WITH TURNING VANES & MITERED ELBOW WITH TURNING VANES
	VANED ELBOW OR RADIUS ELBOW (USE VANED ELBOW WHERE SPACE WILL NOT PERMIT THE USE OF LONG RADIUS ELBOW)
	DUCT - END CAP
	RECTANGULAR DUCT BRANCH
	CIRCULAR DUCT BRANCH
	RECTANGULAR SUPPLY AIR DUCT (UP AND DOWN)
	RECTANGULAR RETURN AIR DUCT (UP AND DOWN)
	RECTANGULAR EXHAUST AIR DUCT (UP AND DOWN)
	RECTANGULAR OUTSIDE AIR DUCT (UP AND DOWN)
	ROUND SUPPLY AIR DUCT (UP AND DOWN)
	ROUND RETURN AIR DUCT (UP AND DOWN)
	ROUND EXHAUST AIR DUCT (UP AND DOWN)
	ROUND OUTSIDE AIR DUCT (UP AND DOWN)
VD	VOLUME DAMPER
M	MOTORIZED DAMPER
BDD	BACKDRAFT DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
SMK	DUCT SMOKE DETECTOR
TYPE (CFM)	AIR TERMINAL - SIDEWALL GRILLE/REGISTER (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING SUPPLY (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING RETURN (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING EXHAUST (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING SUPPLY - ROUND (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING RETURN - ROUND (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING EXHAUST - ROUND (AIRFLOW DIRECTION AND TYPE SHOWN)
	LINEAR DIFFUSER (AIR DIRECTION AND TYPE SHOWN)
AD	ACCESS DOOR
	TRANSFER DUCT WITH GRILLES
UC	UNDERCUT DOOR
	AIR FLOW ARROW (SUPPLY)
	AIR FLOW ARROW (RETURN/EXHAUST)
UP / DN	SLOPE DIRECTION ARROW

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	FAN - ROOF MOUNTED - MUSHROOM
	FAN - ROOF MOUNTED - UPBLAST
	FAN - CENTRIFUGAL
	FAN - CENTRIFUGAL PLUG/PLENUM
	FAN - AXIAL
	FILTER - BAG
	FILTER - PLEATED
	FILTER - CARBON
	HUMIDIFIER
	LOUVER
AHU	AIR HANDLING UNIT ACCESS SECTION
AHU	AIR HANDLING UNIT PLENUM SECTION
PH	COIL - PRE-HEAT
RH	COIL - RE-HEAT
CC	COIL - COOLING
HC	COIL - HEATING
DX	COIL - DX
	FAN COIL UNIT
	UNIT HEATER
	UNIT HEATER - CEILING - PLAN
	VAV BOX - SINGLE DUCT
	VAV BOX - FAN ASSISTED - PARALLEL
	SOUND ATTENUATOR
	AIR SEPARATOR
	PLATE AND FRAME HEAT EXCHANGER
TS	TEMPERATURE SENSOR
R	RELATIVE HUMIDITY SENSOR
DPS	DIFFERENTIAL PRESSURE
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
O	OCCUPANCY SENSOR
T	THERMOSTAT
H	HUMIDITY SENSOR
SP	STATIC PRESSURE SENSOR
XX.YY	SENSOR - SEE ABBREVIATIONS FOR TYPE
XX.YY	SENSOR (DUCT MOUNTED) - SEE ABBREVIATIONS FOR TYPE
	ROOF EXHAUST FAN (PLAN)
L (SQ.FT.)	LOUVER (DOOR AND WALL) AND LOUVER FREE AREA

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	EXISTING
	NEW (LINETYPE VARIES PER SYSTEM)
	ELBOW TURN DOWN
	TEE TURN DOWN
	PIPE TURN UP
	TEE TURN UP
	CAPPED PIPE
	INSULATED PIPE
XXX / X	XXXX - SERVICE TYPE. SEE ABBREVIATIONS
R	PITCH OF PIPE (RISE)
D	PITCH OF PIPE (DROP)
	CONCENTRIC REDUCER/EXPANDER
FOB / FOT	ECCENTRIC REDUCER/EXPANDER
	PIPE ANCHOR
	UNION JOINT
	FLANGED JOINT
	EXPANSION LOOP
	EXPANSION JOINT
	PIPE ALIGNMENT GUIDE
	CHECK VALVE
	CHECK VALVE - SWING GATE
	CHECK VALVE - SPRING
	PRESSURE REDUCING VALVE
	QUICK DISCONNECT VALVE (OPENING)
	QUICK DISCONNECT VALVE (CLOSING)
	LOCK SHIELD VALVE
	NEEDLE VALVE
	CIRCUIT SETTER (BALANCING VALVE)
	AUTOMATIC FLOW LIMITING VALVE
	TAMPER VALVE
	FLOAT VALVE
	TRIPLE DUTY VALVE
	COCK, DRAIN
	COCK, SHUT-OFF
	CURB VALVE
	SAFETY RELIEF VALVE
	BACKFLOW PREVENTER

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	HOSE END DRAIN
	STRAINER Y-TYPE
	AIR VENT, AUTOMATIC
	AIR VENT, MANUAL
	VACUUM BREAKER
	FLEXIBLE CONNECTION (BRAIDED HOSE)
	FLEXIBLE CONNECTION (SPHERICAL RUBBER)
T	THERMOSTATIC RADIATOR
	THERMOWELL
M	FLOW METER
	TEST POINT
	PRESSURE GAUGE
	THERMOMETER
	STEAM TRAP
FS	FLOW OR PRESSURE SWITCH
	PUMP
	FLOW INDICATOR

GENERAL SYMBOLS AND TAGS

SYMBOL	DESCRIPTION
AHU-1	EQUIPMENT TYPE / EQUIPMENT TAG NUMBER
	LINE BREAK
	ELECTRIC HEAT TRACING
	EXISTING TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
-XXX-	POINT OF DISCONNECTION OF WORK TO BE REMOVED (XXX - SERVICE REFERENCE. SEE ABBREVIATIONS)

GENERAL DUTY MANUAL AND CONTROL VALVES

SYMBOL (WITH OPERATOR TYPE)					DESCRIPTION
MANUAL	CYLINDER	DIAPHRAGM	MOTORIZED	SOLENOID	
			M S	S S	2-PORT SHUT-OFF VALVE (S)
			M T	S T	2-PORT THROTTLING VALVE (T)
			M S	S	3-WAY GATE VALVE
			M	S	ANGLE VALVE
			M	S	GLOBE VALVE
			M	S	3-WAY GLOBE VALVE
			M	S	BALL VALVE
			M	S	PLUG VALVE
			M	S	BUTTERFLY VALVE
			M	S	DIAPHRAGM VALVE

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.

4B-013 - T3 Improvements & Supplemental Bagroom

Discipline	Scope Description	Task(s) to be Completed
Mechanical		
	Phasing	It is assumed that the existing bag claim will have to remain operational until new bag claim will be built and that portions of the existing systems will run simultaneously. Detailed phasing plan of cutovers within the bag room being developed by the BHS team and will need to be coordinated with the CMAR after the 60% submission. In addition, it is assumed that there will have to be temporary HVAC and power required to accommodate the removal and replacement of the existing units in the penthouse. This will be further developed once the CMAR is on board.
	Program requirements	60% design assumes the following. (5) Kitchens, (2) by SSCP and (2) by the H/K concourse, and (1) in the new AA lounge. The (2) kitchens at the H/K concourse will require units on the roof Kitchenette in the USO space SSCP and restroom layouts per CDA revisions on 3/6. Mechanical will asssume old screening machines without A/C units for worst case cooling loads. Electrical and plumbing will assume new screening machnies with A/C units for worst case electrical loads and plumbing requirements. Utilities for these items are shown on the drawings. Detailed coordination with other trades will occur after the 60% submission.
	Displaced program	It is assumed program will be relocated within the building as part of this project. MEP services for these areas are shown on the drawings, however, the details of the program relocation as are to be coordinated after the 60% submission.
	Rotunda and OGT coordination	Scope of this project ends at face of concourse. ROW for future OGT conveyors within T3 are part of the T3 scope. Details of the new work and relocation of any exisiting systems within the ROW of the future OGT conveyors within T3 are in progress at this time and will be further developed and coordinated after the 60% design.There are several existing mechanical utilities that will be impacted by the future OGT conveyor ROW and will require relocation.
	Existing Conditions	Drawings are based on site visits that have occurred as of 3/8 and have not included invasive surveys to validate all existing conditions. Additional invasive surveys will be required to be performed by the contractor who will provide a report of findings prior to starting any work.
	Asset management tagging.	New equipment is being tagged using the lastest version of the asset management tags as discussed with CDA/CCA as of 12/19/22. This version is still being reviewed by the CDA and may change at a later date. Further coordination with CDA will be required after the 60% submission.
	Equipment pads	New equipment is to be provided with equipment pads per CDA specifications. Pads not yet shown on drawings and to be coordinated after the 60% submission.
	Utility routing	New and relocated utility mains (duct work, piping, and conduits) are shown but not yet coordinated with architectural, structural, or BHS elements. It is anticipated that some of the routings shown may change to resolve clashes. Coordination to take place after the 60% submission.
	Asbestos discovery and remediaton	Asbestos discovery and remediation are not anticipated as part of the scope of this project. It is assumed that the CDA will perform a study and remediation prior to the start of work for this project.
	Final duct routing/ diffuser placement in bathrooms UL) , SSCP areas (UL), support spaces (UL), bag makeup area (LL), mechanical rooms (Penthouse & LL)	Final design is pending coordination with architecture, BHS, structure, and other trades.
	Final diffuser selections	Final selections pending coordination with architecture
	Rigging path in mechanical spaces	Final rigging path layout is dependent on final equipment location, duct routing and CDA requirements.
	Return air path	Return air path is dependent on final partition plans. Need confirmation of full height walls so that proper transfers can be placed.
	HVAC Controls	It is assumed that the existing SMS/M&V network in T3 will be used for all new HVAC controls. No new workstation or servers will be provided. Any new network switches that will be required for controls will be furnished by the CDA and installed by the contractor.
	Metering	New meters for chilled water, hot water, natural gas, and electrical energy metering will be provided for new elements and tied to the SMS/M&V system.
	Adjacent projects	Per discussions with CDA on 3/6, the T3 project will define air handler and heat exchanger replacemnt for areas of T3 within the scope of the T3 upgrade project. All other equipment being replaced in T3 will be handled by the CIP program. CDA to facilitate coordiation between SORD and the CIP program after the 60% submission.
	Thermostats	All units that require thermostatic control to be provided with a thermostat per controls drawings. Final locations to be to be shown and coordinated on the plans after the 60% submission.

1 of 1

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
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PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

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Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
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A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

MECHANICAL NOTES, GRAPHIC KEYS, ABBREVIATIONS

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER **M0.02** VOLUME: **2**

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GENERAL NOTE:

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DUCT CLEANING GENERAL NOTES:

1. THE HVAC LAYOUT SHOWN ON THE PLANS IS BASED ON THE AVAILABLE AS-BUILT DRAWINGS. OVER THE YEARS THERE MAY HAVE BEEN MODIFICATIONS MADE TO THE DUCT WORK. THERE ARE ALSO AREAS WHERE AS-BUILT DRAWIINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL VERIFY THE INFORMATION IN THE FIELD.
2. THE DUCT CLEANING WORK SHALL BE PERFORMED AT NIGHT TIME BETWEEN THE HOURS OF 1:-00 P.M. AND 5:00 A.M. (NEXT DAY). THE AFFECTED AREAS SHALL BE CLEANED TO BE READY BY 5.00 A.M. FOR THE BUILDING REGULAR OPERATIONS.
3. THE DUCT CLEANING IS REQUIRED TO BE PERFORMED IN PHASES AND COORDINATED WITH THE WORK OF OTHER TRADES.
4. PERFORM DUCT CLEANING WORK AFTER NEW AIR HANDLING UNITS AND ASSOCIATED RETURN/EXHAUST FAN SYSTEM HAVE BEEN INSTALLED AND CONNECTED TO THE EXISTING DUCTWORK BUT PRIOR TO AIR BALANCING.
5. PERFORM DUCT CLEANING IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA) STANDARDS.
6. PROVIDE ALL NECESSARY RIGGING, SCAFFOLDING, TOOLS, TACKLE, LABOR AND OTHER LIKE ITEMS NECESSARY FOR THE COMPLETE CLEANING OF THE DUCT SYSTEMS.
7. USE EXISTING SERVICE OPENINGS AND CREATE ADDITIONAL OPENINGS, COMPLYING WITH SMACNA DUCT STANDARDS, AS NEEDED TO ACCESS ALL SECTORS. ON COMPLETION OF WORK, PATCH THE OPENINGS IN ACCORDANCE WITH SMACNA DUCT STANDARDS.
8. CLEANLINESS VERIFICATION:
   A. A SECTION OF DUCT FROM EACH SYSTEM, CHOSED RANDOMLY BY THE COMMISSIONER, MAY BE TESTED FOR CLEANLINESS ACCORDING TO NADCA VACUUM TEST ANALYSIS.
   B. TO BE CONSIDERED CLEAN BY THE NADCA VACUUM TEST, THE NEW WEIGHT OF THE DEBRIS COLLECTED ON THE FILTER MEDIA MUST NOT EXCEED 0.75MG / 100CM2.
9. DUCTWORK THAT IS TO BE DEMOLISHED, AS SHOWN ON THE DRAWINGS OR ACCORDING TO THE CONTRACTOR'S MODIFICATIONS, IS NOT TO BE CLEANED.

GENERAL DEMOLITION NOTES:

1. REMOVE EXISTING WALL PANELS AND/OR LOUVERS AS NECESSARY TO FACILITATE REMOVAL OF EXISTING EQUIPMENT AND ENTRY OF NEW EQUIPMENT INTO THE BUILDING. STORE WALL PANELS AND/OR LOUVERS IN A SAFE PLACE. REINSTALL WALL PANELS AND LOUVERS WHEN WALL OPENING IS NO LONGER NEEDED. ALL DAMAGED WALL PANELS AND/OR LOUVERS SHALL BE REPLACED WITH NEW AND SHALL MATCH EXISTING.
2. ALL EXISTING CONDITIONS MUST BE VERIFIED BY CONTRACTOR PRECONSTRUCTION.
3. ALL AIR HANDLING SYSTEMS TO REMAIN OPERATIONAL AT ALL TIMES THROUGH ALL PHASED CONSTRUCTION.
4. ALL DEMOLITION WORK SHALL BE SCHEDULED SO AS NOT TO INTERRUPT SERVICE TO AIRPORT OPERATION. WHERE SERVICE INTERRUPTION TO AIRPORT OPERATION CAN IN NO WAY BE AVOIDED, THIS INTERRUPTION SHALL BE MADE WITH MINIMAL INCONVENIENCE TO AIRPORT OPERATION. CONTRACTOR SHALL PROVIDE ADVANCE WRITTEN NOTICE OF SEVEN (7) WORKING DAYS FOR EACH INDIVIDUAL SERVICE INTERRUPTION TO THE COMMISSIONER BEFORE ANY SERVICE INTERRUPTION IS PERMITTED.
5. CONTRACTOR TO PROVIDE SUPPLEMENTARY HEATING TO MAINTAIN SETPOINT PENTHOUSE TEMPERATURE DUE TO ADDITIONAL HEATING LOADS FROM WALL OPENINGS AND/OR TEMPORARY REMOVAL OF EXISTING HEATERS.
6. ALL EXISTING DUCTWORK, PIPING CONDUIT, AND EQUIPMENT THAT ARE OBSTRUCTING ACCESS IN THE INSTALLATION OF NEW EQUIPMENT AND TEMPORARY DUCTS SHALL BE TEMPORARILY REMOVED AND REINSTALLED ONCE NEW EQUIPMENT AND TEMPORARY DUCTS ARE INSTALLED.

GENERAL NEW WORK NOTES:

1. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY EXACT LOCATION OF DIFFUSERS, DUCTWORK AND EQUIPMENT IN FIELD.
2. ALL TERMINAL UNITS SHALL REBALANCE TO AIRFLOW VALUES SHOWN ON PLAN.
3. PROVIDE BALANCING DAMPERS AT ALL BRANCH DUCTS AND DIFFUSER TAKE-OFFS EVEN IF NOT SHOWN ON PLAN.
4. DIFFUSER TAKE-OFFS SHALL BE SIZED BY DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
5. NEW DIFFUSER TAKE-OFFS FOR EXISTING PERIMETER DIFFUSERS SHALL MATCH EXISTING DIFFUSER INLET SIZE. NEW DIFFUSER TAKE-OFFS FOR NEW PERIMETER DIFFUSERS SHALL MATCH INLET SIZE ON DIFFUSER SCHEDULE.
6. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH.
7. PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS, FITTINGS, ETC. TO COORDINATE NEW DUCTWORK AND TERMINAL UNITS WITH STRUCTURAL AND ALL OTHER TRADES AS REQUIRED. PROVIDE SMOOTH TRANSITIONS, RADIUS FITTINGS, TURNING VANES, ETC.
8. DUCT DIMENSIONS SHOWN REPRESENT REQUIRED INSIDE CLEAR DIMENSIONS.
9. EXHAUST FAN DUCTWORK SHALL BE PROVIDED WITH A MINIMUM OF ONE ELBOW ON INTAKE AND DISCHARGE DUCT RUN.
10. ALL TERMINAL UNIT CONTROL COVERS SHALL BE INSTALLED AND CLOSED PRIOR TO CLOSING OF THE CEILING.
11. PROVIDE INSULATED BACKING PLATE FOR ALL THERMOSTATS INSTALLED ON THE PERIMETER COLUMNS OR WALL.
12. ALL NEW CONTROLS WORK SHALL BE PERFORMED BY THE BUILDING CONTROLS CONTRACTOR. CONTROLS CONTRACTOR SHALL UPDATE BUILDING AUTOMATION SYSTEM HVAC GRAPHICS TO MEET BUILDING STANDARDS.
13. CONTROLS CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ANY REQUIRED POWER FOR NEW TERMINAL UNITS CONTROLLERS.
14. PROVIDE CONICAL TAKE-OFFS FOR TERMINAL UNITS.
15. EQUIPMENT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES TO MAINTAIN PROPER ACCESS TO ALL EQUIPMENT.
16. PRIOR TO ANY TIE-INS TO BASE BUILDING EQUIPMENT, RISERS, ETC. CONTRACTOR SHALL SCHEDULE AND COORDINATE WITH BASE BUILDING ENGINEER.
17. TESTING AND BALANCING SHALL BE PERFORMED BY AN APPROVED BASE BUILDING SUBCONTRACTORS. COORDINATE WITH THE BUILDING FOR LISTS OF APPROVED CONTRACTORS.
18. CONTRACTOR TO COORDINATE FINAL LOCATION OF NEW THERMOSTATS WITH BUILDING CHIEF ENGINEER AND ARCHITECT PRIOR TO INSTALL WITH APPROVAL BY MECHANICAL ENGINEER. IF EXISTING THERMOSTAT(S) WILL BE OBSTRUCTED BY NEW FURNITURE, THERMOSTAT(S) SHALL BE RELOCATED.
19. PROVIDE 1" ACOUSTICAL LINING IN ALL TRANSFER AND EXHAUST DUCTS.

CHICAGO PERMIT NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH CHICAGO CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. PROVIDE HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED.
2. DUCTWORK SHALL BE IN ACCORDANCE WITH "SMACNA" LOW VELOCITY DUCT MANUAL AND "ASHRAE" RECOMMENDATIONS. THE STRICTEST REQUIREMENTS SHALL BE FOLLOWED.
3. CONTRACTOR TO PROVIDE CONTROL WIRING FOR EQUIPMENT. WIRING SHALL BE IN CONDUIT PER CITY OF CHICAGO CODE.
4. CONTRACTOR SHALL NOT INSTALL REFRIGERATION DEVICES IN THE AIR STREAM, INCLUDING SOLENOID CONTROL VALVES AND DEVICES FOR DX UNITS.
5. CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND ALL SOURCES OF AIR CONTAMINATION WILL NOT BE RECIRCULATED.
6. ALL DUCTWORK SHALL BE OF PRIME, FIRST QUALITY GALVANIZED STEEL SHEETS. GAUGES OF METAL SPACING, ETC., SHALL CONFORM TO LATEST EDITION OF ASHRAE CONSTRUCTION STANDARDS FOR DUCTWORK CONSTRUCTION. MINIMUM 24 GAUGE, DUCT WORK PRESSURE SHALL MEET SMACNA STANDARD SEAL CLASS B. DUCTWORK SHALL BE PRESSURE TESTED. SEE SPECIFICATIONS FOR TESTING PROCEDURES.
7. TEMPORARY DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. FOR OUTSIDE SIZE OF LINED DUCTWORK, ADD TWICE THE THICKNESS OF LINING TO THE DIMENSIONS SHOWN ON THE PLANS.
8. EQUIPMENT NOISE AT THE PROPERTY LINE SHALL NOT EXCEED 55 DBA.
9. THE INTAKE DRAWING AIR FROM OUT-OF-DOORS SHALL BE AT SUCH A POINT THAT THE AIR SUPPLY WILL BE UNCONTAMINATED AND THAT THE OPENINGS WILL BE UNOBSTRUCTED AT ALL TIMES. THE INTAKE OPENING SHALL BE NOT LESS THAN FIFTEEN FEET FROM THE DISCHARGE OUTLET OF ANY EXHAUST FAN. UNLESS ADEQUATE MEANS IS PROVIDED FOR THE REMOVAL OF DUST FROM THE AIR, THE BOTTOM OF THE OPENING SHALL BE NOT LESS THAN TEN FEET ABOVE THE SURFACE OF ANY ABUTTING PUBLIC WAY, GANG WAY, DRIVEWAY, GRADE, OR ABUTTING ROOF. NO INTAKE OPENING SHALL BE PLACES IN ANY STREET, ALLEY OR DRIVEWAY, OR WITHIN TWELVE INCHES OF THE LEVEL OF ANY OTHER SURROUNDING GRADE; SO AS NOT TO TAKE AIR FROM THE LOWER LEVEL OF ANY TWO LEVEL STREET OR SIMILAR CONSTRUCTION. MAXIMUM VELOCITY THROUGH OUTSIDE AIR INTAKE LOUVERS AND DUCTWORK SHALL NOT EXCEED 1000 FPM.
10. THE AIR REMOVED BY EVERY MECHANICAL VENTILATING EXHAUST SYSTEM SHALL BE DISCHARGED OUT-OF-DOORS AT A POINT FROM WHICH CANNOT AGAIN BE READILY DRAWN IN BY A VENTILATING SYSTEM.
11. ALL SUPPLY AND EXHAUST DUCT BRANCHES SHALL HAVE LOCKING TYPE VOLUME DAMPERS.
12. ENERGY CODE REQUIREMENTS:
    A. DUCT SEALING: ALL NEW LOW, MEDIUM, AND HIGH PRESSURE AIR-CONDITIONING SUPPLY AND RETURN AIR DUCTWORK SHALL BE SEALED. NEW EXHAUST DUCTWORK WITH DUCT PRESSURES OF OVER 1-1/2" (NEGATIVE OR POSITIVE) STATIC PRESSURE SHALL BE SEALED. PROVIDE SMACNA DUCT SEAL CLASS A FOR ALL DUCTS. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES) AND MASTIC PLUS EMBEDDED FABRIC SYSTEMS. MASTICS AND MASTIC/TAPE DUCT SEALANTS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCT. PROVIDE LEAK TESTS AND SUBMIT RESULTS TO ENGINEER. LEAK TESTS SHALL BE CONDUCTED IN COMPLIANCE WITH SMACNA'S HVAC AIR DUCT LEAKAGE TEST MANUAL (LATEST EDITION); ALL DUCTWORK MENTIONED ABOVE SHALL BE LEAK TESTED.
    B. DUCT SOUND LINING: NEW SUPPLY DUCTS SHALL BE LINED WITH 1" THICK, 1.5 LB. PER CUBIC FOOT DENSITY FIBERGLASS DUCT LINER WITH A MINIMUM THERMAL RESISTANCE OF R=5.4. DUCT LINER SHALL MEET THE REQUIREMENTS OF NFPA BULLETIN 90A AND SHALL BE LABELED BY UL. [OR] DUCT INSULATION (INDOOR): NEW SUPPLY DUCTWORK SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS MATERIAL, 1.0 LBS. PER CU. FT. DENSITY (R=5.6) WITH ALL SERVICE VAPOR BARRIER JACKET. INSULATION SHALL MEET REQUIREMENTS OF NFPA BULLETIN 90A AND SHALL BE LABELED BY UL.
    C. DUCT INSULATION (OUTDOOR): ALL NEW SUPPLY AIR, MIXED AIR, EXHAUST AIR AND OUTSIDE AIR DUCTWORK AND PLENUMS SHALL BE INSULATED WITH 2" SEMI-RIGID GLASS FIBER, 3 LBS. PER CU. FT. DENSITY (R=8.7) WITH ALL SERVICE VAPOR BARRIER JACKET. WEATHER SEAL ALL JOINTS OF INSULATION. COVER WITH CAULKED ALUMINUM JACKET WITH LONGITUDINAL SEAMS LOCATED ON THE BOTTOM SIDE OF THE HORIZONTAL DUCT SECTION.
13. ALL ROUND FLEXIBLE LOW-PRESSURE DUCT WORK SHALL BE INSULATED, [CHICAGO APPROVED] AND NOT EXCEED 5'-0" IN LENGTH.
14. TRANSFER DUCTS SHALL NOT EXCEED 5'-0" IN LENGTH.
15. ALL EQUIPMENT SHALL HAVE TOTALLY ENCLOSED MOTORS AND BE RATED TO OPERATE IN "PLENUM" CEILINGS.
16. SUPPLY AIR AND RETURN AIR FAN MOTORS EXPOSED TO DUCTED AIR STREAM SHALL HAVE TOTALLY ENCLOSED MOTORS.

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
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PACKAGE ISSUE DATE
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MECHANICAL NOTES, GRAPHIC KEYS, ABBREVIATIONS

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SHEET NUMBER VOLUME: **2**

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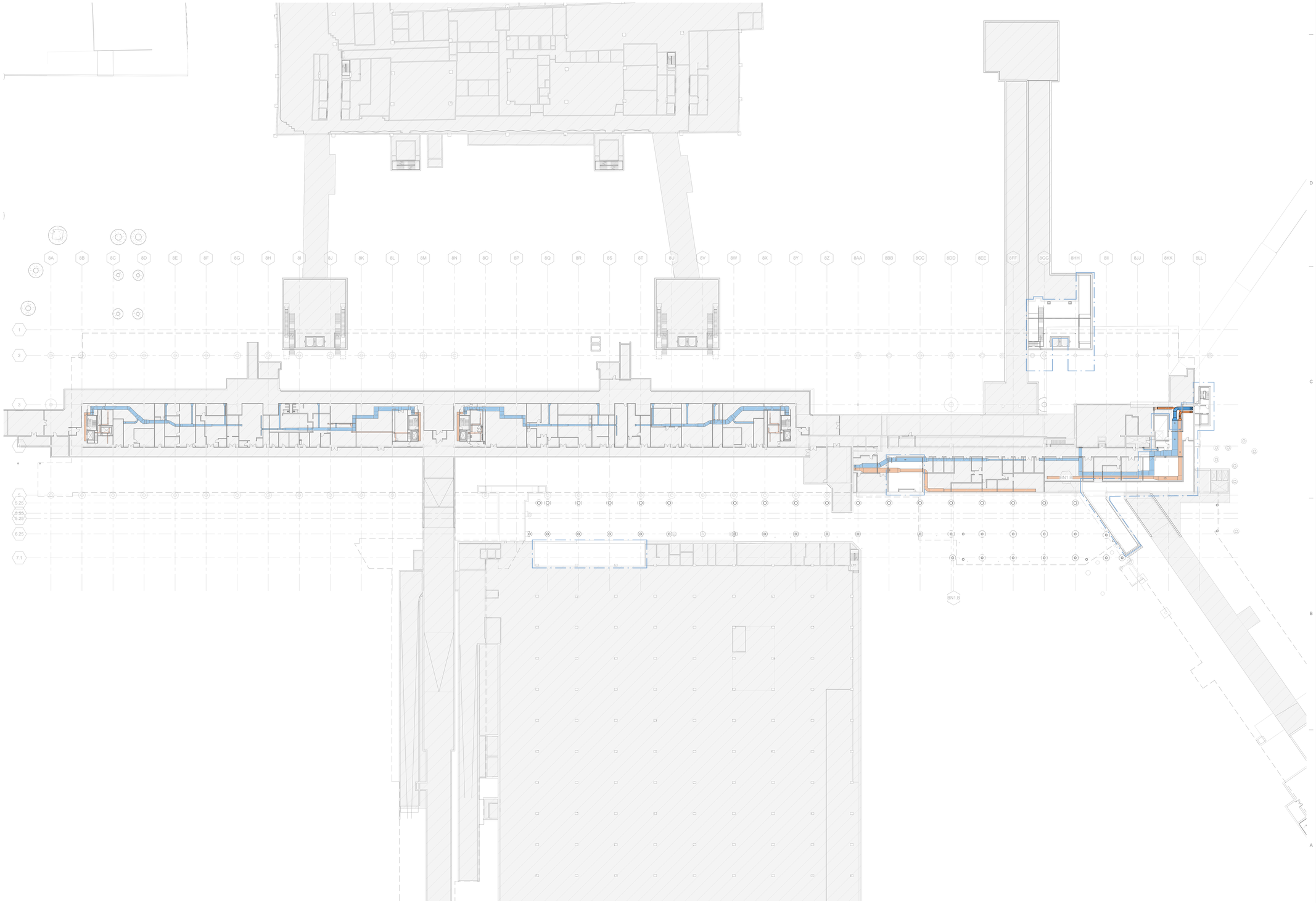

1A OVERALL MECHANICAL HVAC PLAN - BASEMENT LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

N

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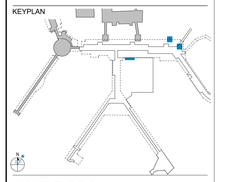
KEYPLAN



OVERALL MECHANICAL HVAC PLAN - BASEMENT LEVEL

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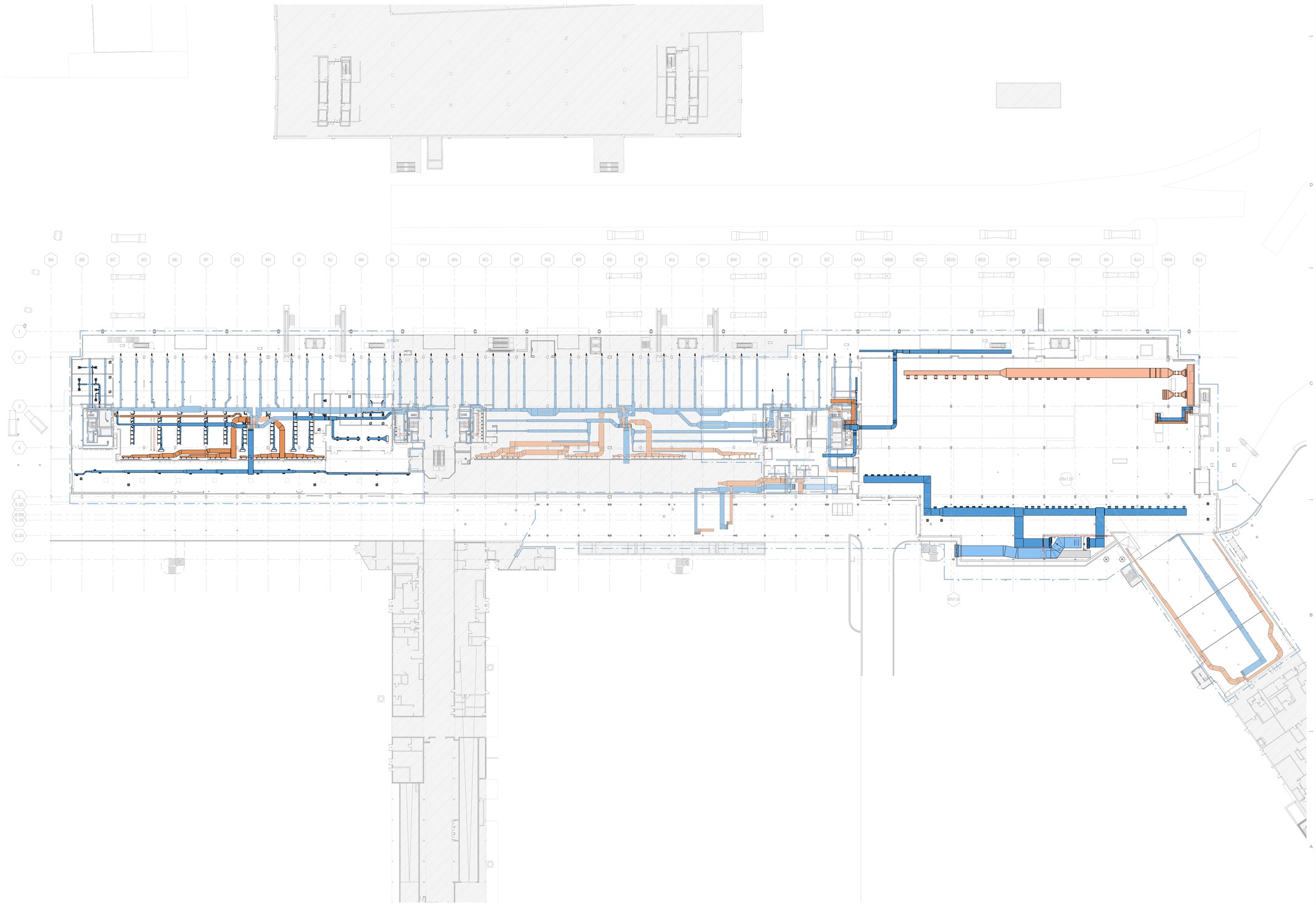

1A OVERALL MECHANICAL HVAC PLAN - LOWER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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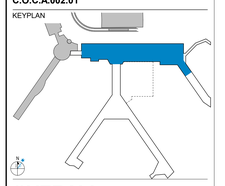
KEYPLAN



OVERALL MECHANICAL HVAC PLAN - LOWER LEVEL

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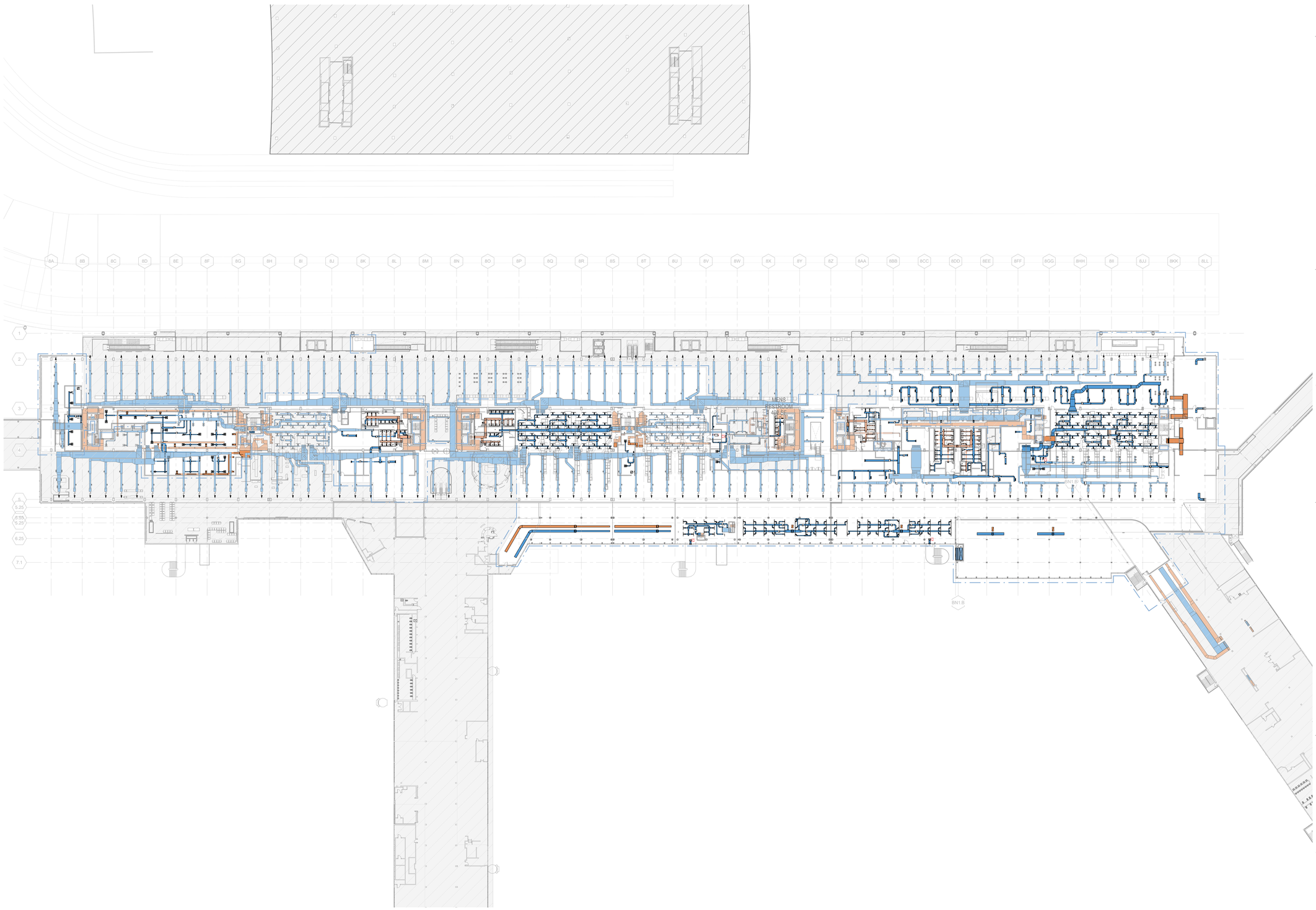

1A OVERALL MECHANICAL HVAC PLAN - UPPER LEVEL
1/32" = 1'-0"

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KEYPLAN

OVERALL MECHANICAL HVAC PLAN - UPPER LEVEL

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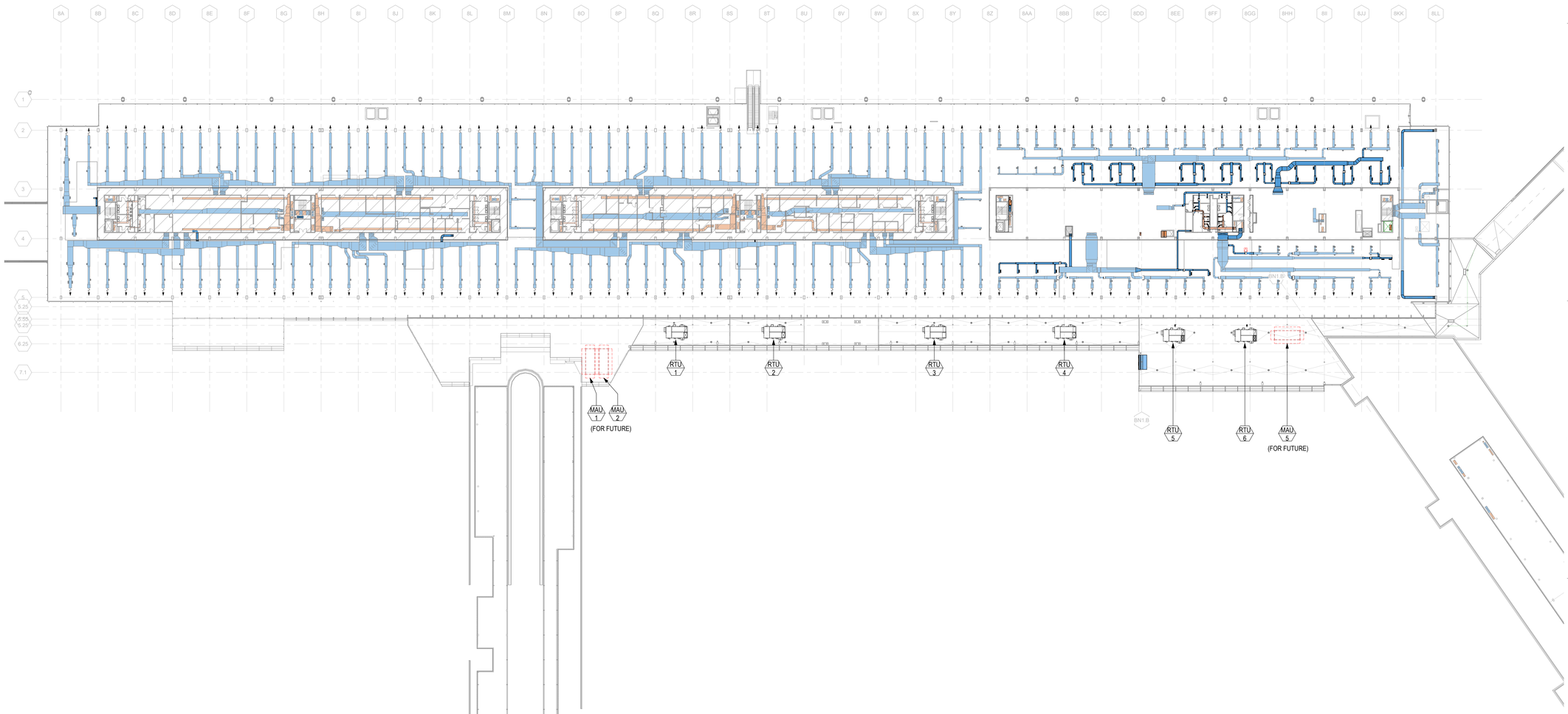

1A OVERALL MECHANICAL HVAC PLAN - MEZZANINE LEVEL
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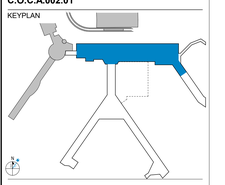

OVERALL MECHANICAL HVAC PLAN - MEZZANINE LEVEL

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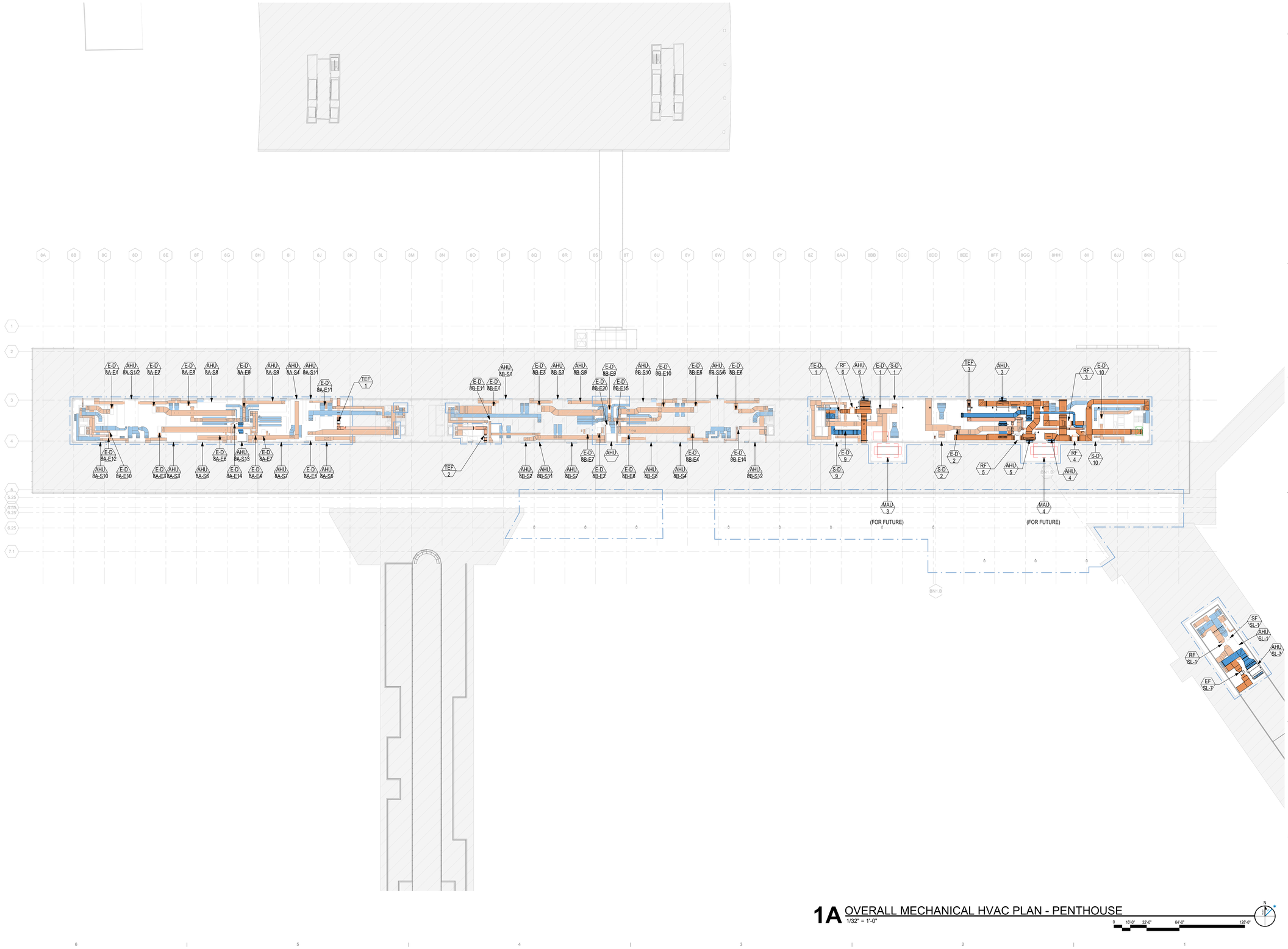

1A OVERALL MECHANICAL HVAC PLAN - PENTHOUSE
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

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REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN

OVERALL MECHANICAL HVAC PLAN - PENTHOUSE

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER **M1.1.05** VOLUME: **2**

3/19/2023 8:12:42 PM

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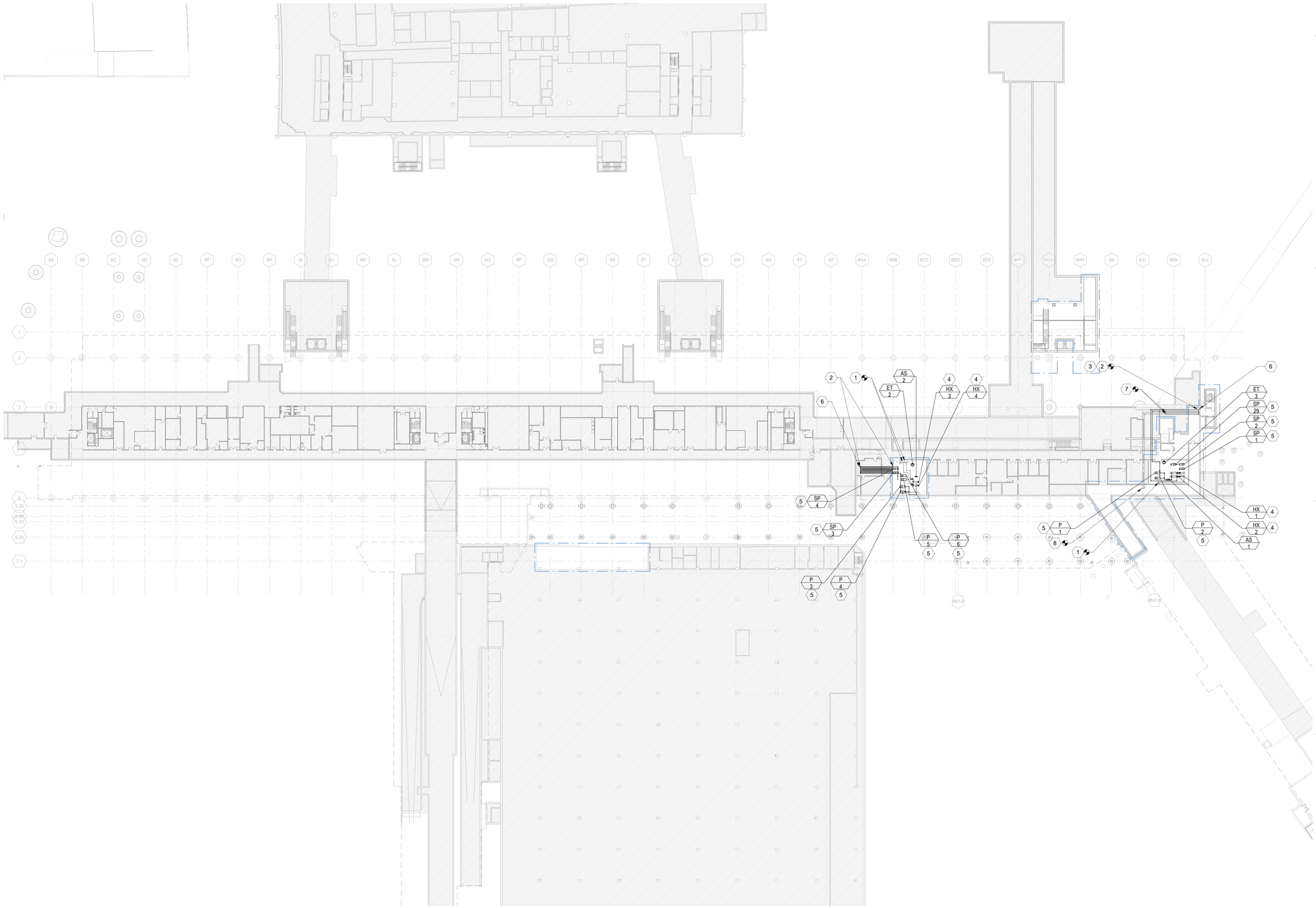
KEYNOTES:

1. EXISTING HTWS & HTWR TO/FROM RING TUNNEL.
2. PROVIDE NEW LTWS & LTWR TO THE RISER. PIPING TO INCLUDE ALL AUXILIARY EQUIPMENT SUCH AS EXPANSION LOOPS, VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
3. PROVIDE NEW CHWS, 10" CHWR TO THE RISER. PIPING TO INCLUDE ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
4. PROVIDE NEW SHELL AND TUBE HIGH TEMPERATURE HEAT EXCHANGERS WITH ALL ASSOCIATED ACCESSORIES, FITTINGS, AND INSULATION. REFER TO SCHEDULES ON SHEET M6.2.01.
5. PROVIDE NEW LTWS PUMP WITH ALL ASSOCIATED ACCESSORIES, FITTINGS, AND INSULATION. REFER TO SCHEDULES ON SHEET M6.2.01.
6. RISER & SHAFT FINAL LOCATION BY ARCHITECT.
7. CONNECTION TO EXISTING CHWS & CHWR FROM RING TUNNEL.
8. EXISTING CHWS & CHWR FROM RING TUNNEL TO CONCOURSE L.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A OVERALL MECHANICAL PIPING PLAN - BASEMENT LEVEL

1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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CDA Chicago Department of Aviation

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REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

OVERALL MECHANICAL PIPING PLAN - BASEMENT LEVEL

DRAWN BY: **ARC** CHECKED BY: **MAN**
SHEET NUMBER: **M1.2.01** VOLUME: **2**

3/22/2023 1:03:42 PM

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KEYNOTES:

1. RISER & SHAFT FINAL LOCATION BY ARCHITECT.
2. TIE INTO EXISTING CHWS RISER TO NEW FCU. PIPING TO INCLUDE ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
3. TIE INTO EXISTING CHWR RISER TO NEW FCU. PIPING TO INCLUDE ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
4. RELOCATE EXISTING LTWS & LTWR RISER. REFER TO DWG MD1.2.02 CONNECT NEW RISER TO NEW UH & FCU. PIPING TO INCLUDE EXPANSION LOOPS AND ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
5. TIE INTO REPLACED, LTWS & LTWR FROM NEW RISER AND BRANCH TO NEW UH. PIPING TO INCLUDE EXPANSION LOOPS AND ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
6. CONNECT TO NEW UNIT HEATER.

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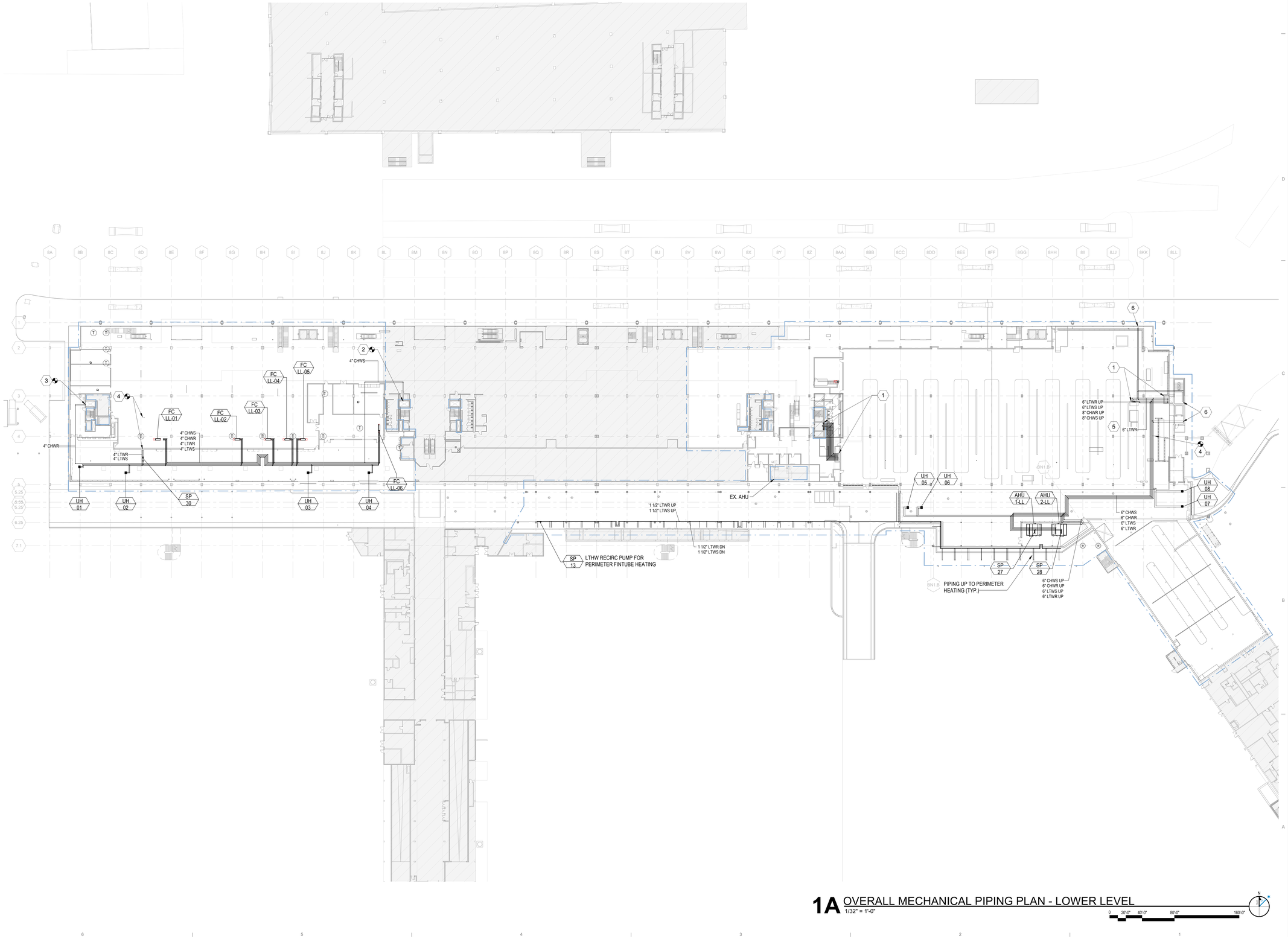

1A OVERALL MECHANICAL PIPING PLAN - LOWER LEVEL
1/32" = 1'-0"

0 20'-0" 40'-0" 80'-0" 160'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
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PHASE: **DD**
REVISION: **--**

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KEYPLAN

OVERALL MECHANICAL PIPING PLAN - LOWER LEVEL

DRAWN BY: **ARC** CHECKED BY: **MAN**
SHEET NUMBER
M1.2.02
VOLUME: **2**

3/24/2023 12:38:30 PM

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KEYNOTES:

1. TAP NEW CHWS, CHWR, LTWS, & LHWR FROM NEW RISER. PIPING TO INCLUDE EXPANSION LOOPS AND ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
2. INSTALL NEW LINES FOR CHWS, CHWR, LTWS, & LHWR FROM RISER AND BRANCH TO ALL NEW FCU'S. PIPING TO INCLUDE EXPANSION LOOPS AND ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
3. RISER & SHAFT FINAL LOCATION BY ARCHITECT.
4. CONNECTIONS PROVIDED TO CONCESSION SPACES. IPING TO INCLUDE ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
   A. LTWS / LTWR BASED ON 40 BTU/SF
   B. CHWS / CHWR BASED ON 200 SF / TON

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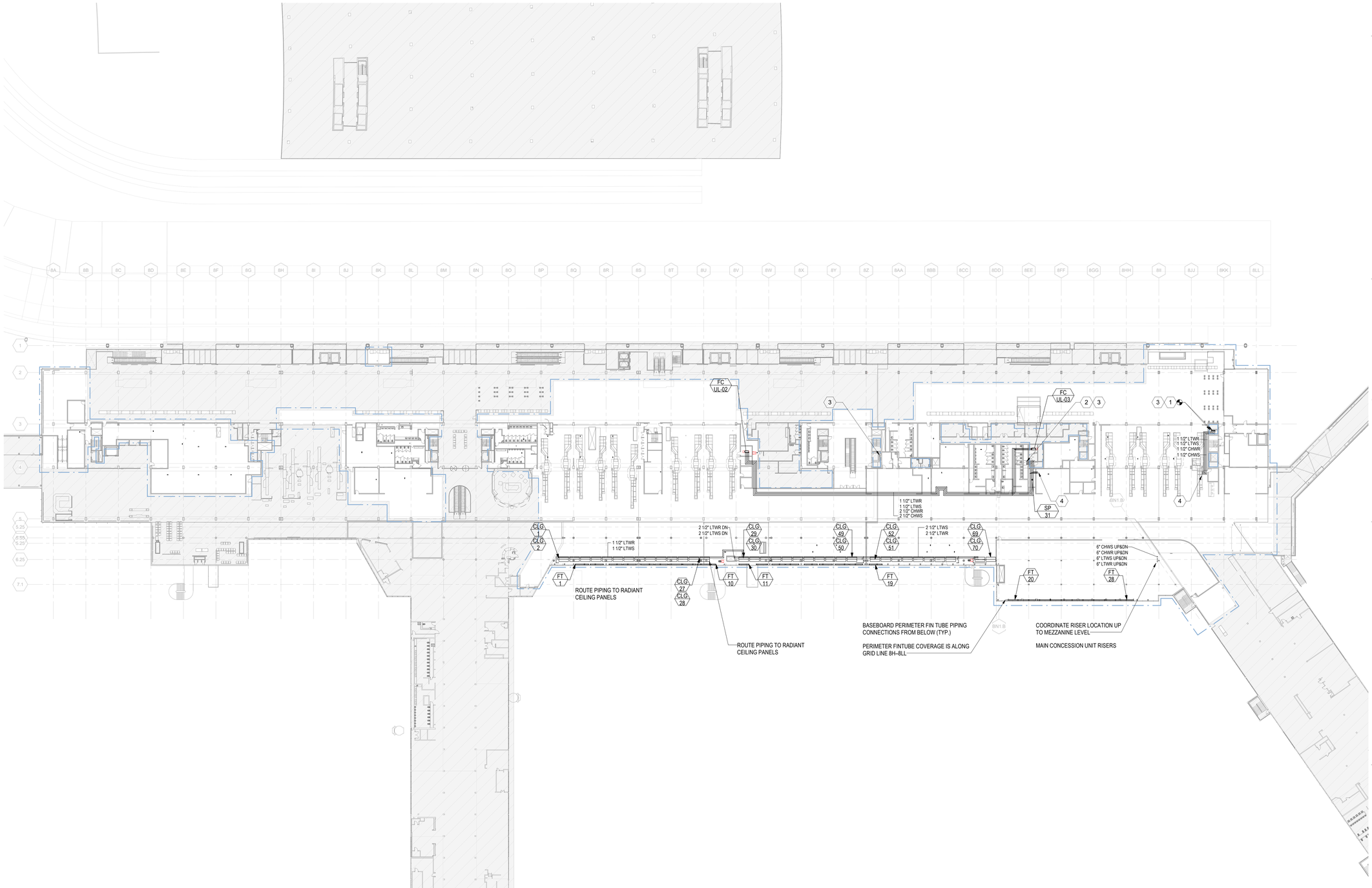

1A OVERALL MECHANICAL PIPING PLAN - UPPER LEVEL
1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

3/19/2023 8:14:19 PM

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JAMIE L. RHEE
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MILHOUSE

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REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

OVERALL MECHANICAL PIPING PLAN - UPPER LEVEL

DRAWN BY: **ARC** CHECKED BY: **MAN**
SHEET NUMBER: **M1.2.03** VOLUME: **2**

KEYNOTES:

1. INSTALL NEW LINE FOR CHWS, CHWR, LTWS, & LHWR FROM NEW RISER AND BRANCH TO ALL NEW RTU & MAU'S. PIPING TO INCLUDE EXPANSION LOOPS AND ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
2. PIPE ROUTING SHALL HUG ALONG THE ROOF GEOMETRY
3. RISER & SHAFT FINAL LOCATION BY ARCHITECT.
4. LTW & CHW PIPE ROUTED UNER THE MEZZANINE ROOF.

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1A OVERALL MECHANICAL PIPING PLAN - MEZZANINE LEVEL

1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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CDA Chicago Department of Aviation

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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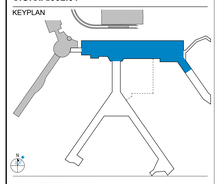
KEYPLAN



OVERALL MECHANICAL PIPING PLAN - MEZZANINE LEVEL

DRAWN BY: **ARC** CHECKED BY: **MAN**

SHEET NUMBER **M1.2.04** VOLUME: **2**

3/22/2023 1:04:50 PM

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KEYNOTES:

1. INSTALL NEW LINE CHWS & CHWR FROM NEW RISER AND BRANCH TO NEW AHU. PIPING TO INCLUDE ALL AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
2. INSTALL NEW LINE FOR LTWS & LHWR FROM NEW RISER AND BRANCH TO NEW AHU. PIPING TO INCLUDE EXPANSION LOOPS AND AUXILIARY EQUIPMENT SUCH AS VALVING, INSULATION, HANGERS, SUPPORTS, GUAGES, PORTS, CONTROLS, ETC.
3. DELETED.
4. DELETED
5. RECONNECT EXISTING LTWS & LTWR BRANCHES FROM THE UNIT HEATERS INTO NEW LTWS LINE.
6. DELETED.
7. RISER & SHAFT FINAL LOCATION BY ARCHITECT.
8. NEW UNIT IS REPLACING IN-KIND. THEREFORE RECONNECT TO EXISTING HYRDONIC CONNECTION POINTS.
9. PIPE DOWN TO UPPER LEVEL.
10. HEAT TRACE OUTDOOR PIPES.

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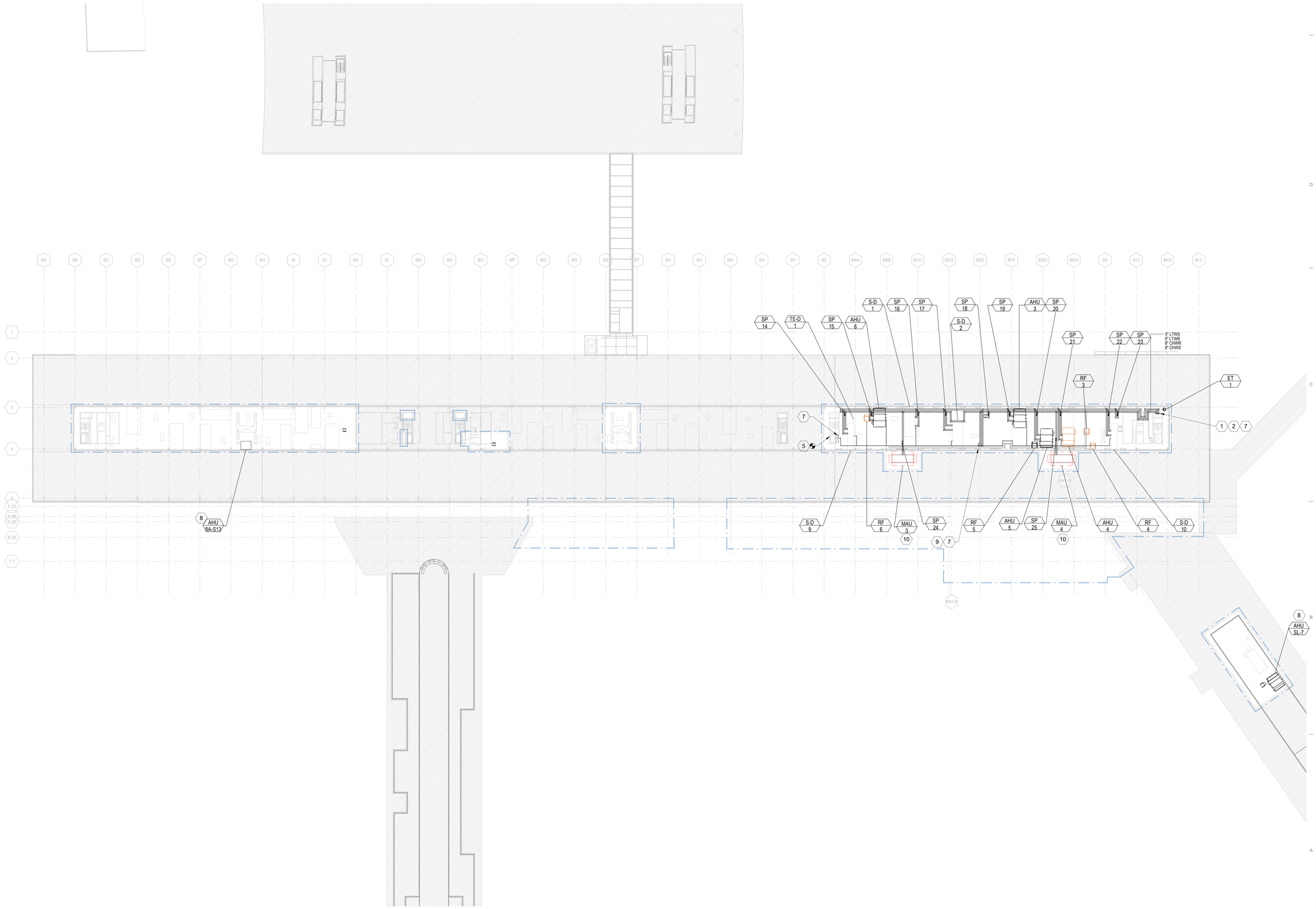

1A OVERALL MECHANICAL PIPING PLAN - PENTHOUSE

1/32" = 1'-0"

0 16'-0" 32'-0" 64'-0" 128'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

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JAMIE L. RHEE
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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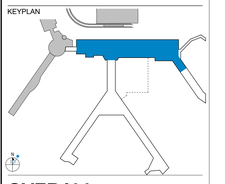
KEYPLAN



OVERALL MECHANICAL PIPING PLAN - PENTHOUSE

DRAWN BY: **ARC** CHECKED BY: **MAN**
SHEET NUMBER **M1.2.05** VOLUME: **2**

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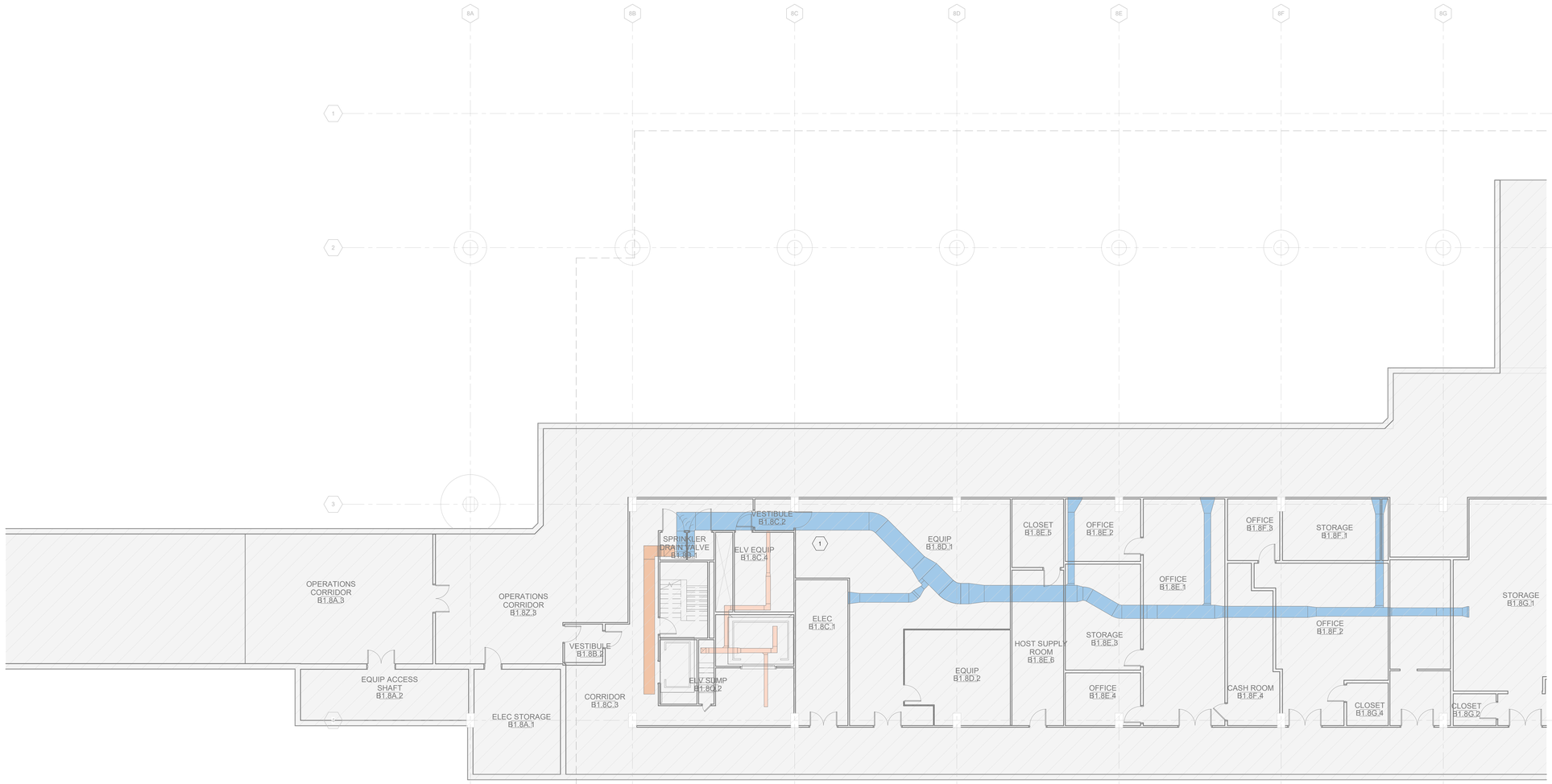

1A MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

3/22/2023 1:05:34 PM

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PHASE: **DD** — REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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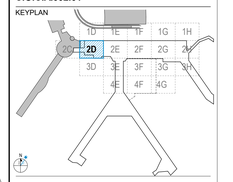
KEYPLAN



MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2D

DRAWN BY: **KS** — CHECKED BY: **HC**
SHEET NUMBER — VOLUME: **2**

M2.1.01.2D

1 NO NEW SCOPE IN THIS AREA. DISTRIBUTION SHOWN ONLY FOR REFERENCE.

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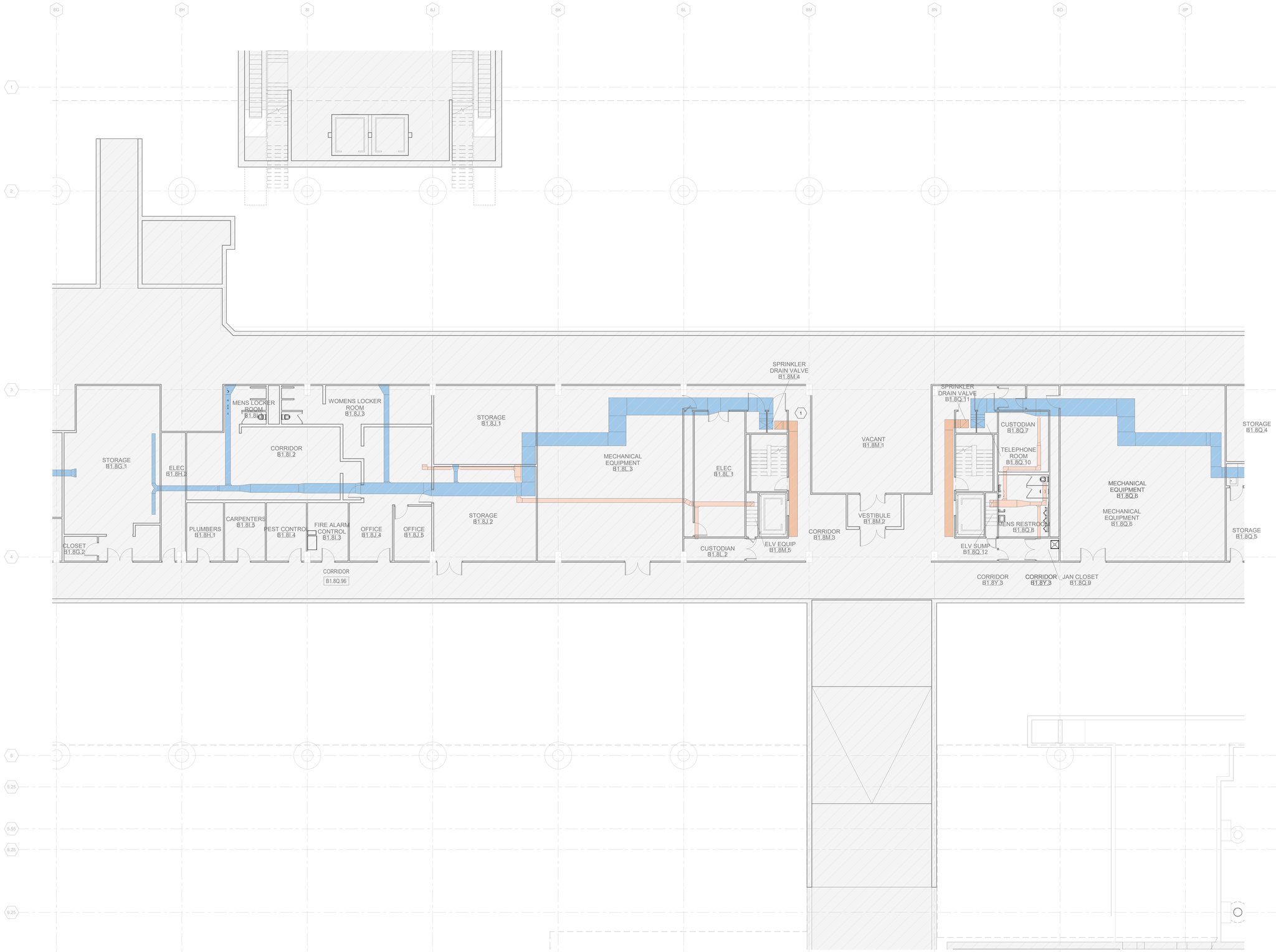

1A MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:06:16 PM

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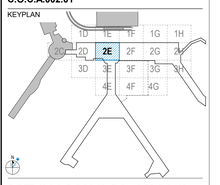
KEYPLAN



MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2E

DRAWN BY: **KS** CHECKED BY: **HC**

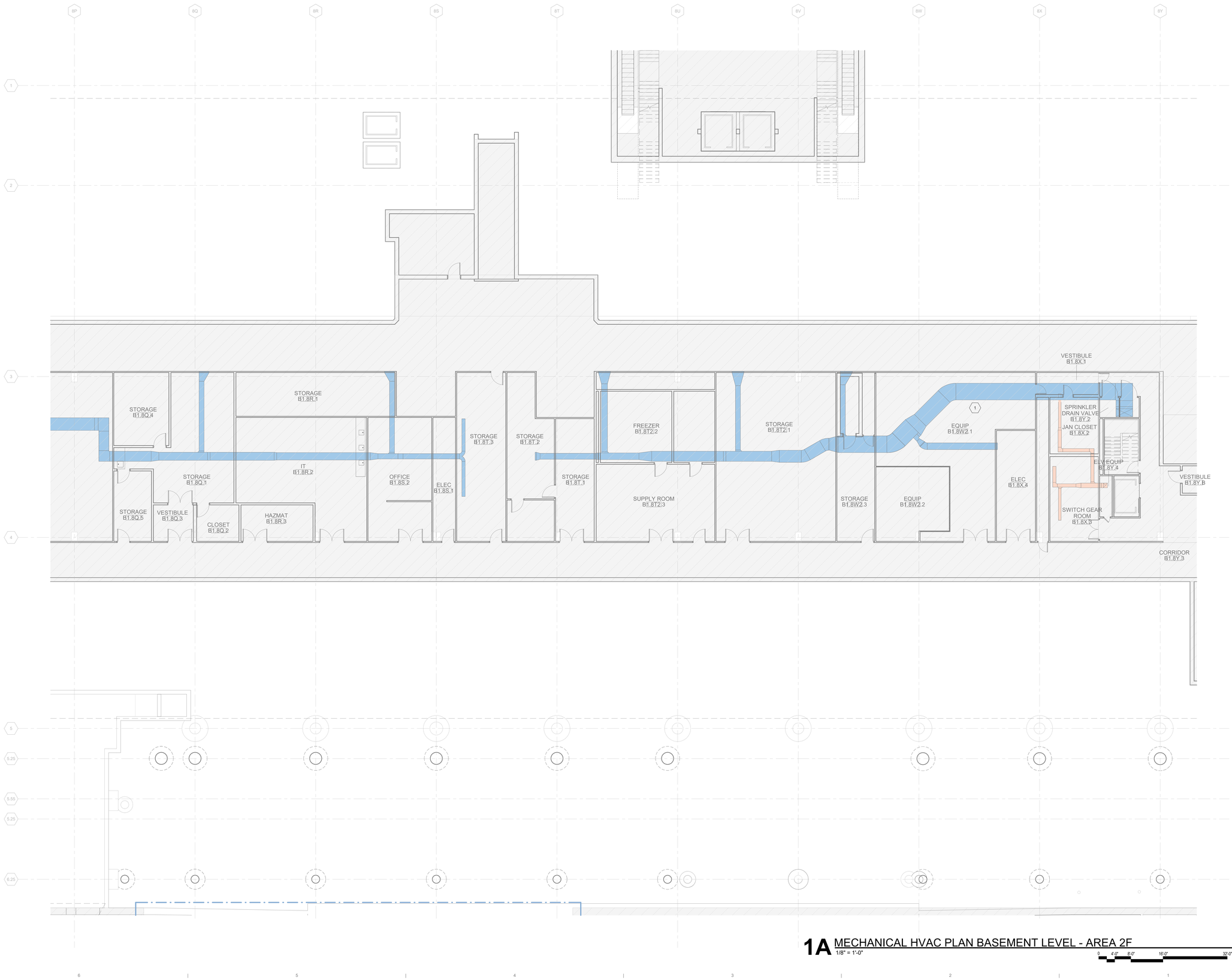
SHEET NUMBER VOLUME: **2**

M2.1.01.2E

1 NO NEW SCOPE IN THIS AREA. DISTRIBUTION SHOWN ONLY FOR REFERENCE.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2F

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

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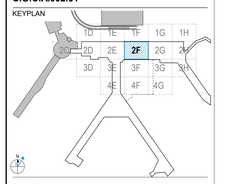
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2F

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER **M2.1.01.2F** VOLUME: **2**

3/22/2023 1:06:51 PM

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1 NO NEW SCOPE IN THIS AREA. DISTRIBUTION SHOWN ONLY FOR REFERENCE.

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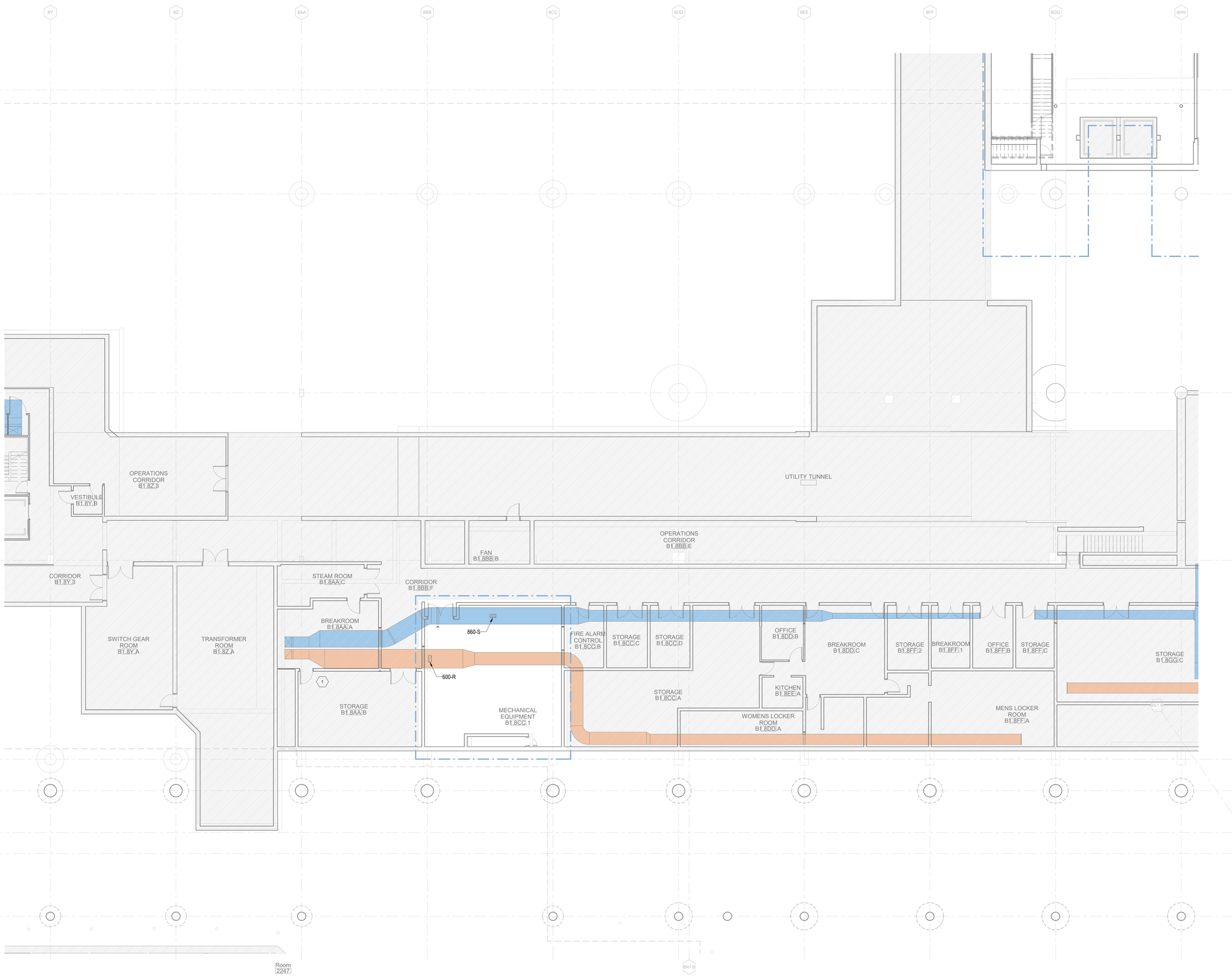

1A MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

3/22/2023 1:07:28 PM

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CITY OF CHICAGO
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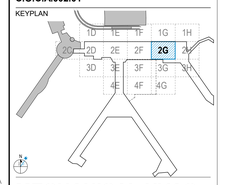
PHASE: **DD** REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2G

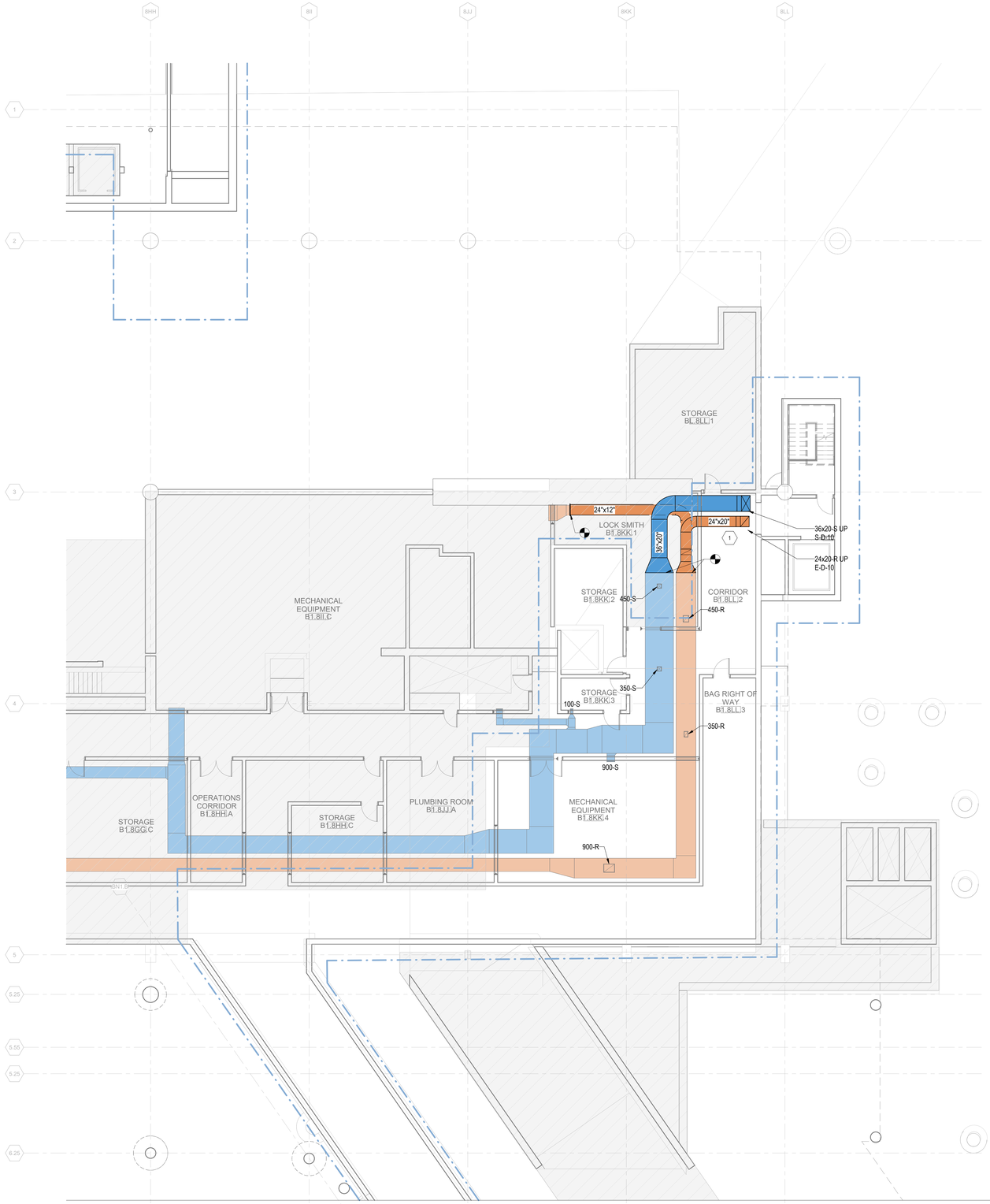
DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER VOLUME: **2**

M2.1.01.2G

1 PROVIDE NEW DUCTWORK TO CONNECT VERTICAL RISER COMING DOWN FROM LL TO EXISTING DISTRIBUTION IN THE BASEMENT.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:08:04 PM

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CITY OF CHICAGO
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PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION **--**

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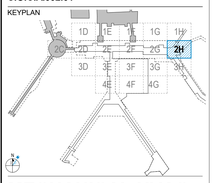

MECHANICAL HVAC PLAN BASEMENT LEVEL - AREA 2H

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER **M2.1.01.2H** VOLUME: **2**

1 PROVIDE NEW HOT WATER UNIT HEATER WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER AND SUPPORT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

2 PROVIDE NEW 4 PIPE FCU WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. PROVIDE RETURN AIR DUCT BOOT ON RETURN AIR SIDE OF FCU. REFER TO MECHANICAL SCHEDULES AND DETAILS. CONNECT NEW EQUIPMENT TO BASE BUILDING M&V SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED.

3 PROVIDE NEW VAV BOXES WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. REFER TO MECHANICAL SCHEDULES AND DETAILS. BALANCE BOX TO CFM SHOWN ON PLAN. CONNECT NEW EQUIPMENT TO BASE BUILDING BAS SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED. TYPICAL FOR ALL VAVS.

4 EXTEND DUCTWORK TO VERTICAL FACE OF CEILING SEPARATION. PROVIDE A GRILLE SIMILAR TO TITUS 300RL AND SIZE TO ACCOMMODATE EXISTING CFM WITHOUT EXCEEDING AN NC VALUE OF 35. TESTING AND BALANCING SHALL BE COMPLETE TO CONFIRM EXISTING AIRFLOWS.

GENERAL NOTE:

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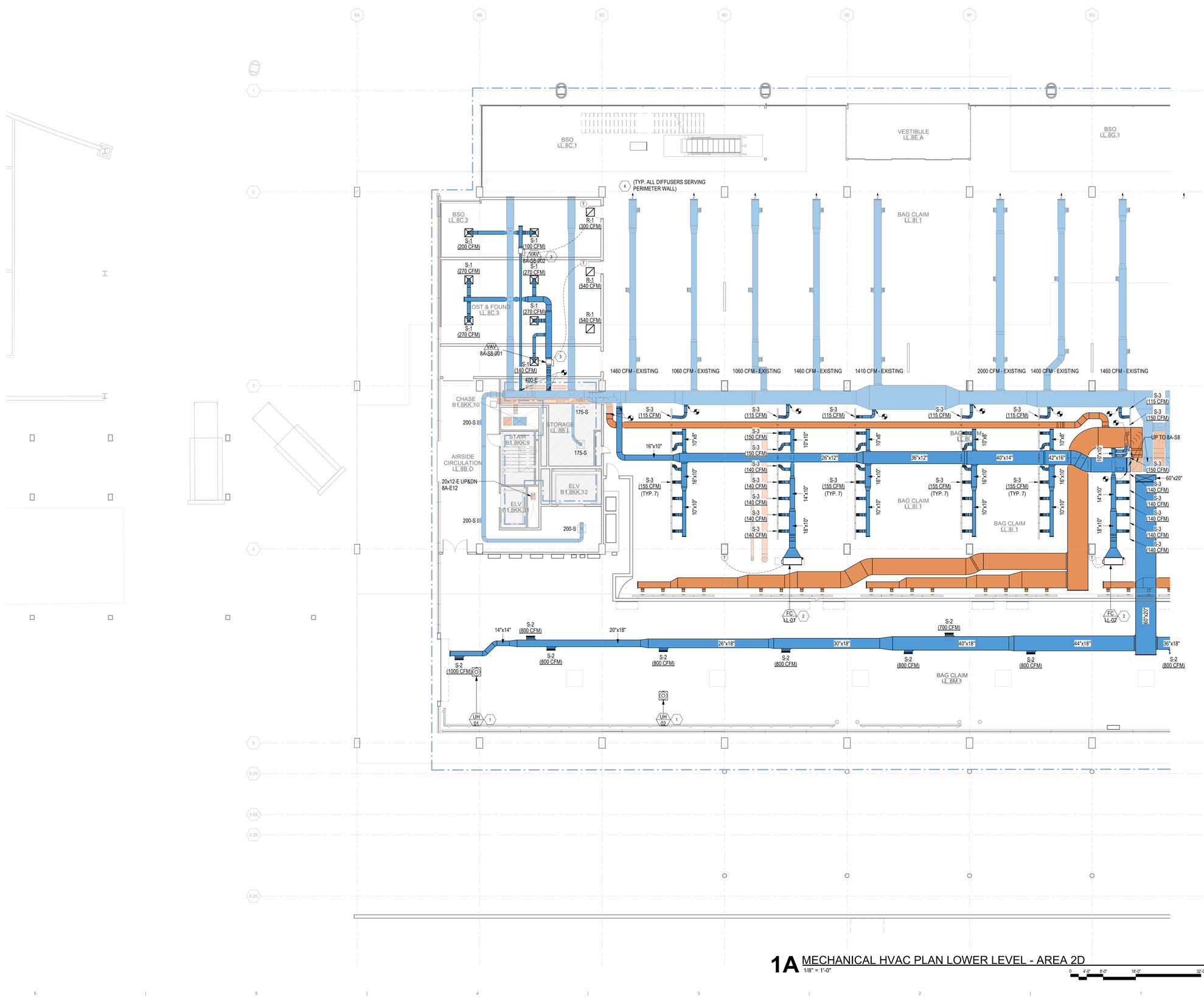

1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
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CHICAGO, ILLINOIS 60666

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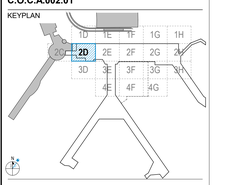
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2D

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
VOLUME: **2**

M2.1.02.2D

3/22/2023 1:08:46 PM

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1 EXTEND DUCTWORK TO VERTICAL FACE OF CEILING SEPARATION. PROVIDE A GRILLE SIMILAR TO TITUS 300RL AND SIZE TO ACCOMMODATE EXISTING CFM WITHOUT EXCEEDING AN NC VALUE OF 35. TESTING AND BALANCING SHALL BE COMPLETE TO CONFIRM EXISTING AIRFLOWS.

2 PROVIDE NEW 4 PIPE FCU WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. PROVIDE RETURN AIR DUCT BOOT ON RETURN AIR SIDE OF FCU. REFER TO MECHANICAL SCHEDULES AND DETAILS. CONNECT NEW EQUIPMENT TO BASE BUILDING M&V SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED.

3 PROVIDE NEW HOT WATER UNIT HEATER WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER AND SUPPORT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

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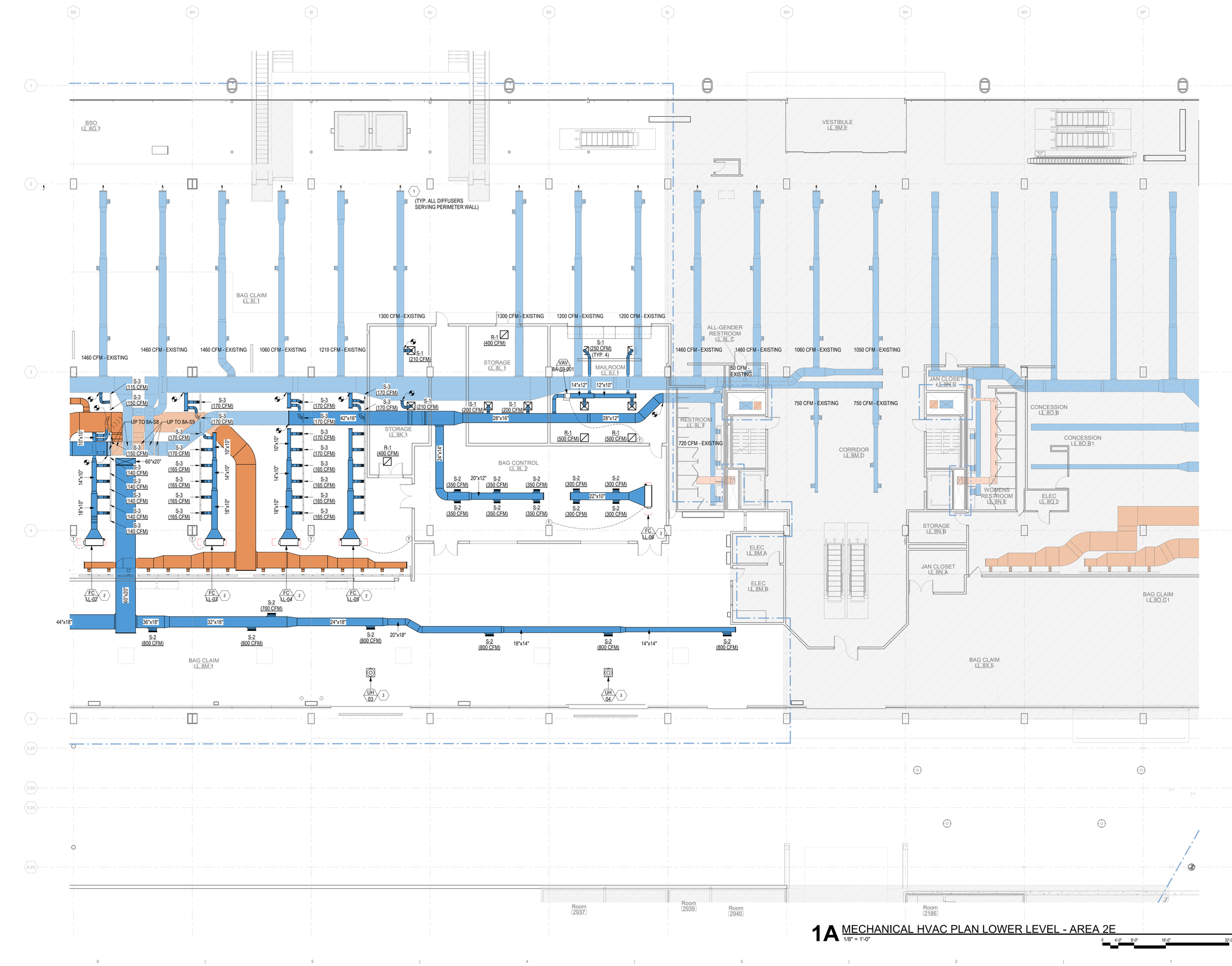

1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:09:31 PM

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MAYOR

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REVISION: **--**

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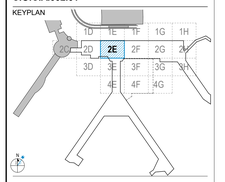
KEYPLAN



MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2E

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
M2.1.02.2E
VOLUME: **2**

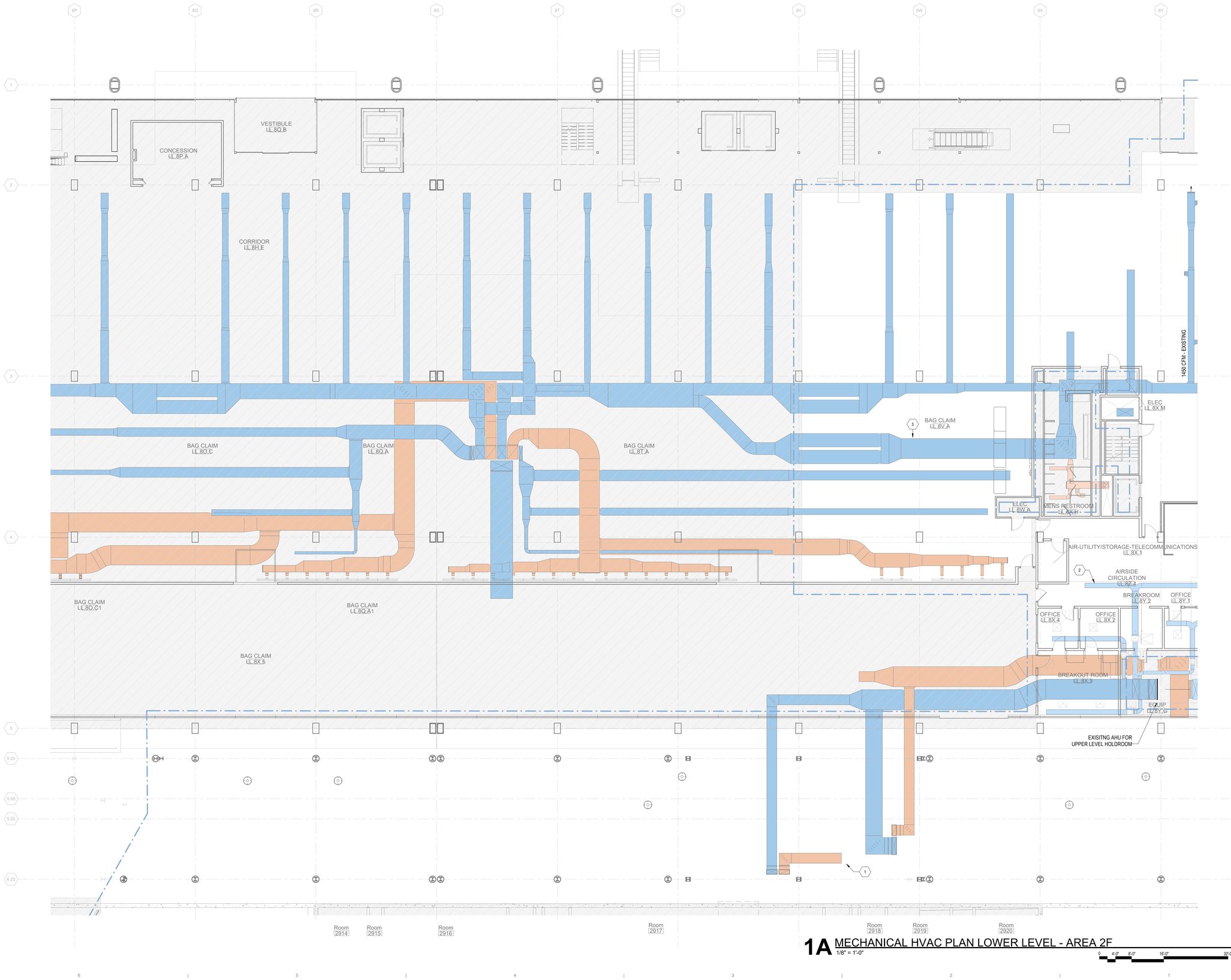
1 NO NEW SCOPE IN THIS AREA. DUCTWORK SERVING EXISTING HOLDROOM SHOWN ONLY FOR REFERENCE. CONTRACTOR TO VISUALLY INSPECT DUCTWORK AND INSULATION AND MAKE REPAIRS AS NECESSARY IN AREAS OF NEW DUCTWORK CONNECTIONS.

2 NO NEW SCOPE IN THIS AREA. DUCTWORK SERVING ALL EXISITNG BACK OF HOUSE SPACES TO REMAIN. DISTRIBUTION SHOWN ONLY FOR REFERENCE. CONTRACTOR TO VISUALLY INSPECT DUCTWORK AND INSULATION AND MAKE REPAIRS AS NECESSARY IN AREAS OF NEW DUCTWORK CONNECTIONS.

3 NO NEW SCOPE IN THIS AREA. DUCTWORK SERVING EXISTING BAG CLAIM TO REMAIN. RISER LOCATIONS AND DISTRIBUTION SHOWN ONLY FOR REFERENCE. CONTRACTOR TO VISUALLY INSPECT DUCTWORK AND INSULATION AND MAKE REPAIRS AS NECESSARY IN AREAS OF NEW DUCTWORK CONNECTIONS.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2F

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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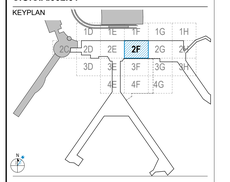

MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2F

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER: **M2.1.02.2F**
VOLUME: **2**

3/22/2023 1:10:07 PM

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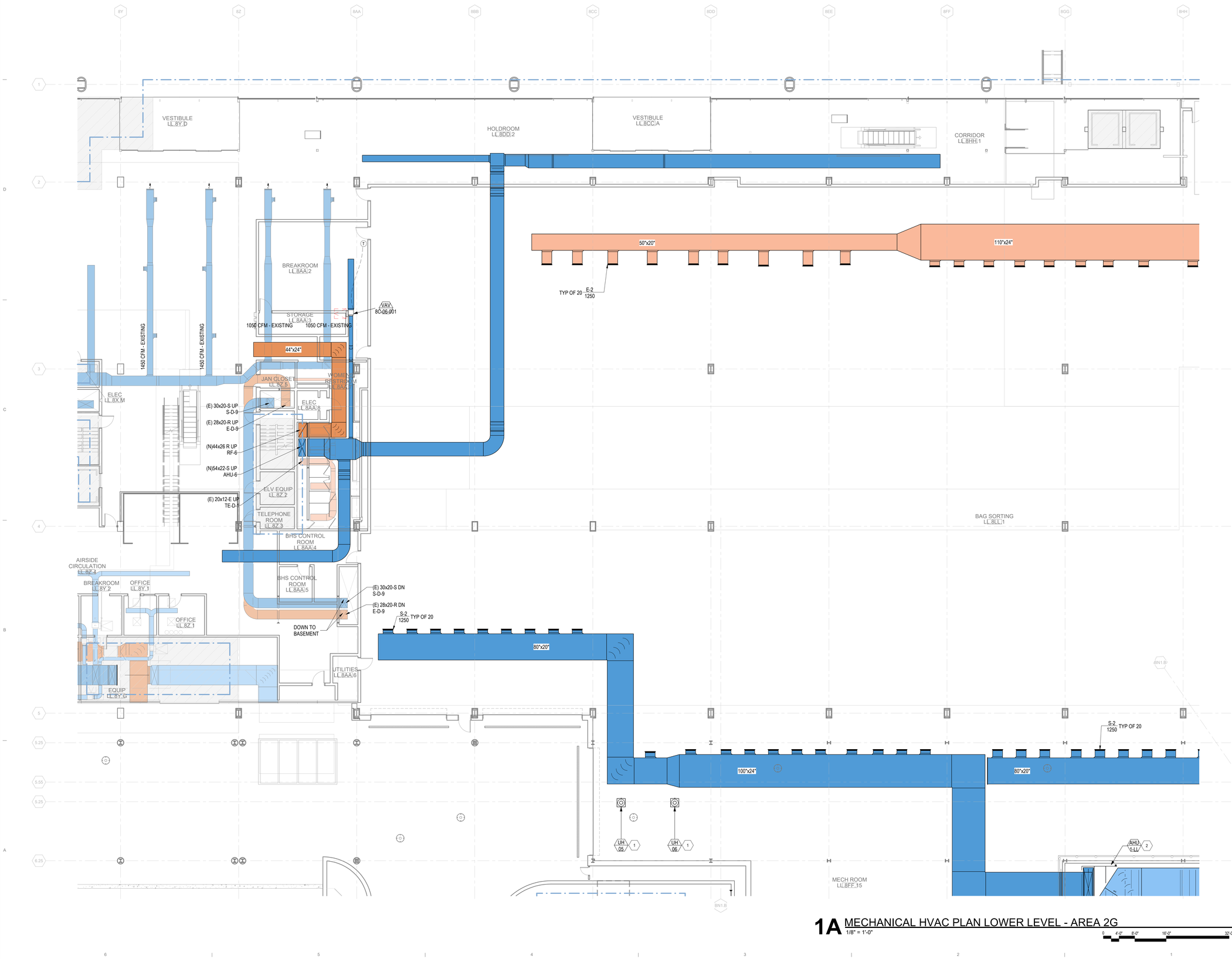
1 PROVIDE NEW HOT WATER UNIT HEATER WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER AND SUPPORT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

2 PROVIDE NEW HEATING AND VENTILATION UNIT INSTALLED ON A 6" HOUSE KEEPING PAD. ROUTE OUTSIDE AIR INTAKE TO LOUVER LOCATED AT UPPER LEVEL. DUCTWORK TO BE ROUTED THROUGH NEW SHAFT AT WEST WALL OF MER. PROVIDE FIRE SMOKE DAMPERS AS REQUIRED.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2G

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:10:45 PM

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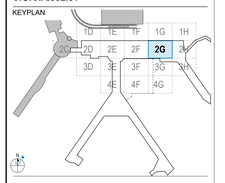


MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2G

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER **M2.1.02.2G** VOLUME: **2**

1 PROVIDE NEW EXHAUST AIR LOUVER. REFER TO SCHEDULE FOR SIZE. PROVIDE A BIRD SCREEN AND LOUVER DRAIN PER DETAILS. COORDINATE FINAL LOCATION AND FINISH WITH ARCHITECT.

2 PROVIDE NEW HOT WATER UNIT HEATER WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER AND SUPPORT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

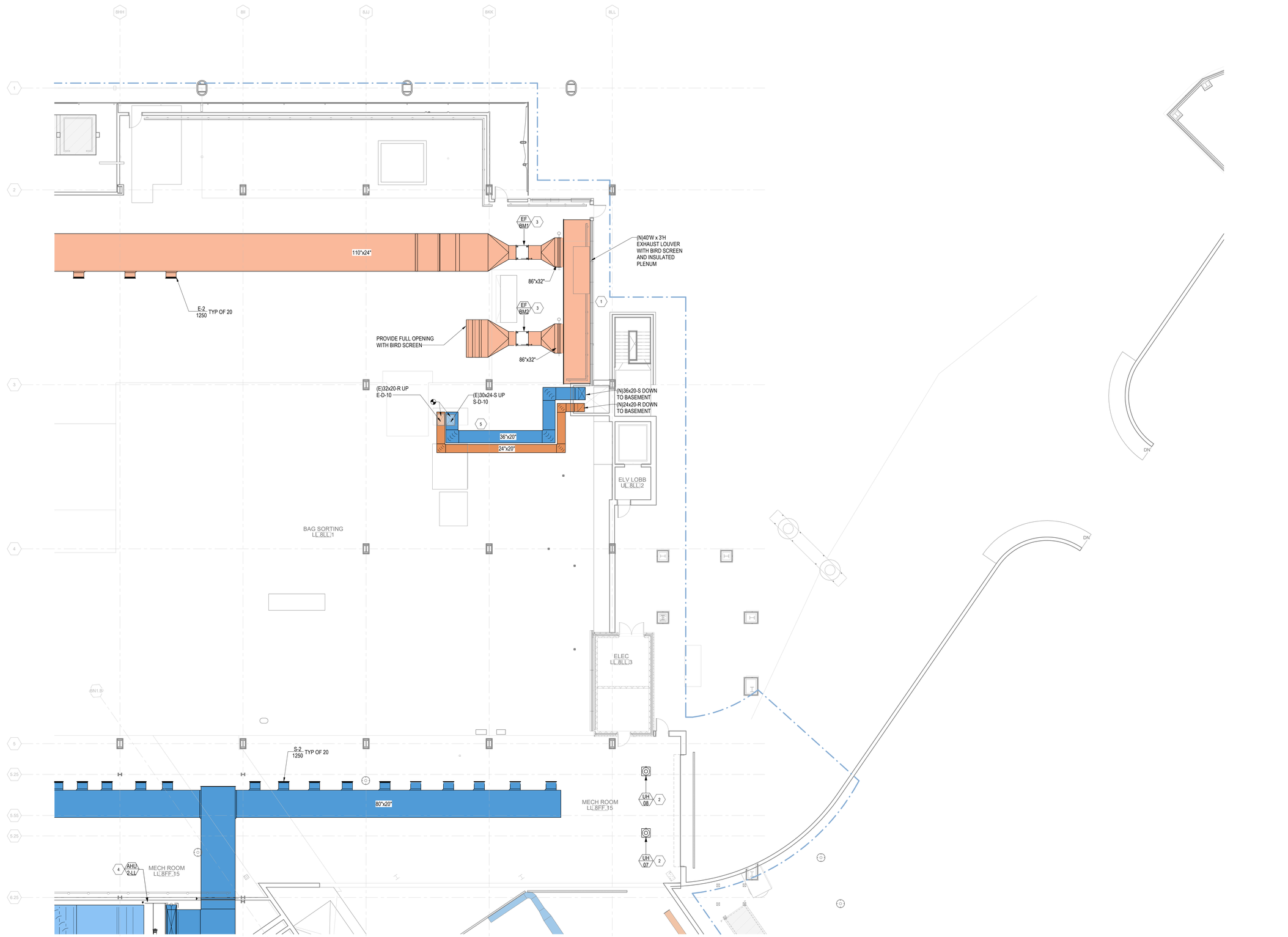
3 PROVIDE NEW EXHAUST FAN WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. REFER TO SCHEDULE.

4 PROVIDE NEW HEATING AND VENTILATION UNIT INSTALLED ON A 6" HOUSE KEEPING PAD. ROUTE OUTSIDE AIR INTAKE TO LOUVER LOCATED AT UPPER LEVEL. DUCTWORK TO BE ROUTED THROUGH NEW SHAFT AT WEST WALL OF MER. PROVIDE FIRE SMOKE DAMPERS AS REQUIRED.

5 PROVIDE NEW DUCTWORK AND ROUTE TIGHT TO DECK INTO NEW SHAFT OPENING. ROUTE DUCTWORK DOWN INTO BASEMENT AND RECONNECT TO EXISTING DISTRIBUTION.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:11:21 PM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

NOTES

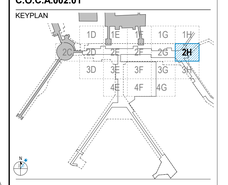
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN LOWER LEVEL - AREA 2H

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER **M2.1.02.2H** VOLUME: **2**

1 NO NEW SCOPE IN THIS AREA. DUCTWORK SERVING EXISTING HOLDROOM SHOWN ONLY FOR REFERENCE. CONTRACTOR TO VISUALLY INSPECT DUCTWORK AND INSULATION AND MAKE REPAIRS AS NECESSARY IN AREAS OF NEW DUCTWORK CONNECTIONS.

GENERAL NOTE:

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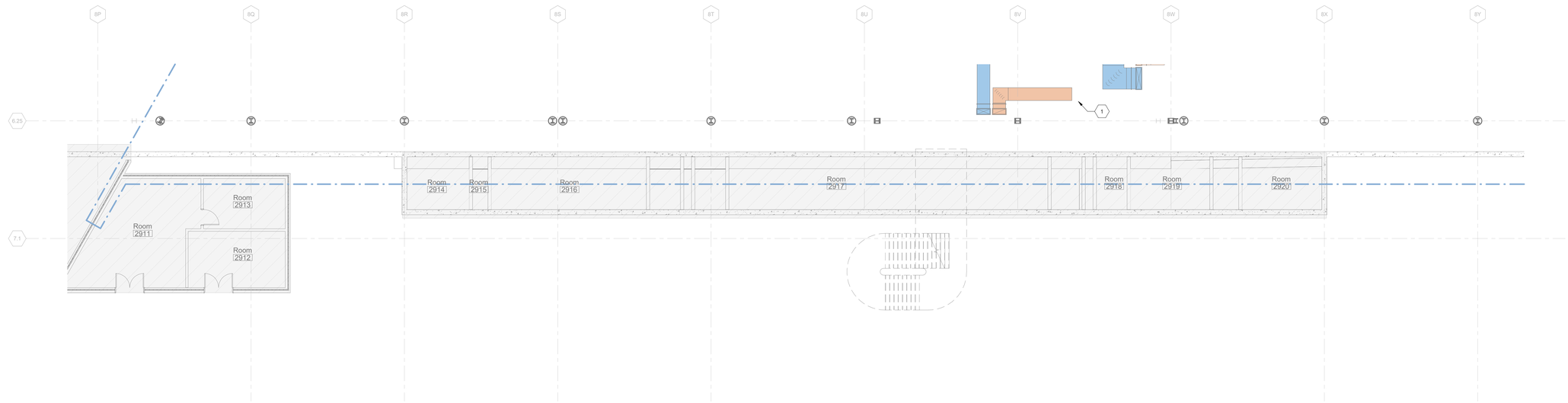

1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3F

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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CHICAGO DEPARTMENT OF AVIATION
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ISSUANCE
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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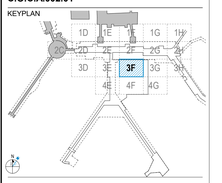
KEYPLAN



MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3F

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER VOLUME: **2**

M2.1.02.3F

3/22/2023 1:11:55 PM

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1 PROVIDE NEW HEATING AND VENTILATION UNIT INSTALLED ON A 6" HOUSE KEEPING PAD. ROUTE OUTSIDE AIR INTAKE TO LOUVER LOCATED AT UPPER LEVEL. DUCTWORK TO BE ROUTED THROUGH NEW SHAFT AT WEST WALL OF MER. PROVIDE FIRE SMOKE DAMPERS AS REQUIRED.

GENERAL NOTE:

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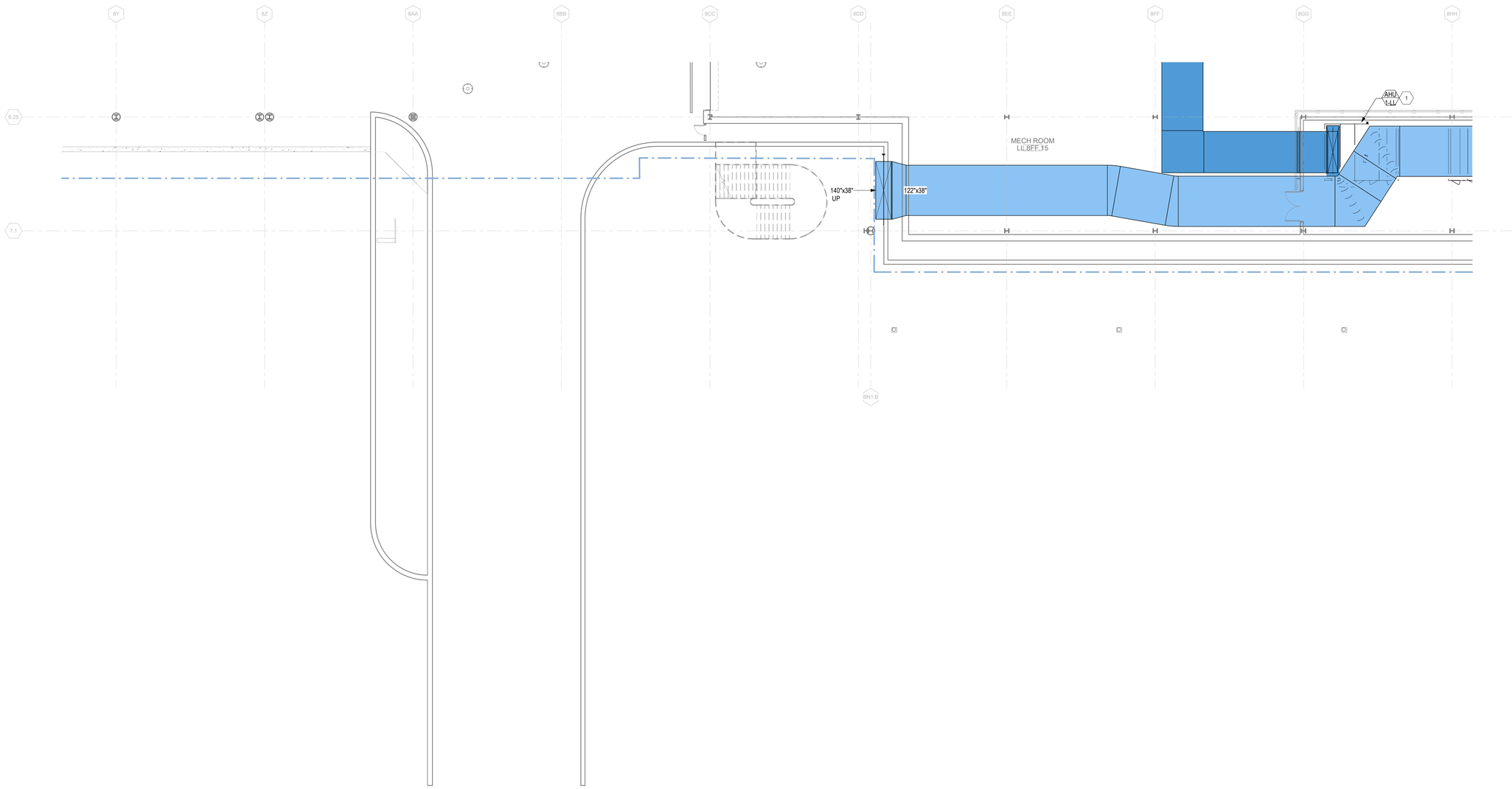

1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
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ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
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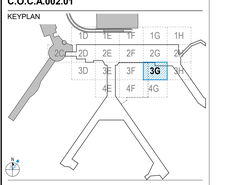
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3G

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER **M2.1.02.3G** VOLUME: **2**

3/19/2023 8:23:15 PM

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1 PROVIDE NEW HEATING AND VENTILATION UNIT INSTALLED ON A 6" HOUSE KEEPING PAD. ROUTE OUTSIDE AIR INTAKE TO LOUVER LOCATED AT UPPER LEVEL. DUCTWORK TO BE ROUTED THROUGH NEW SHAFT AT WEST WALL OF MER. PROVIDE FIRE SMOKE DAMPERS AS REQUIRED.

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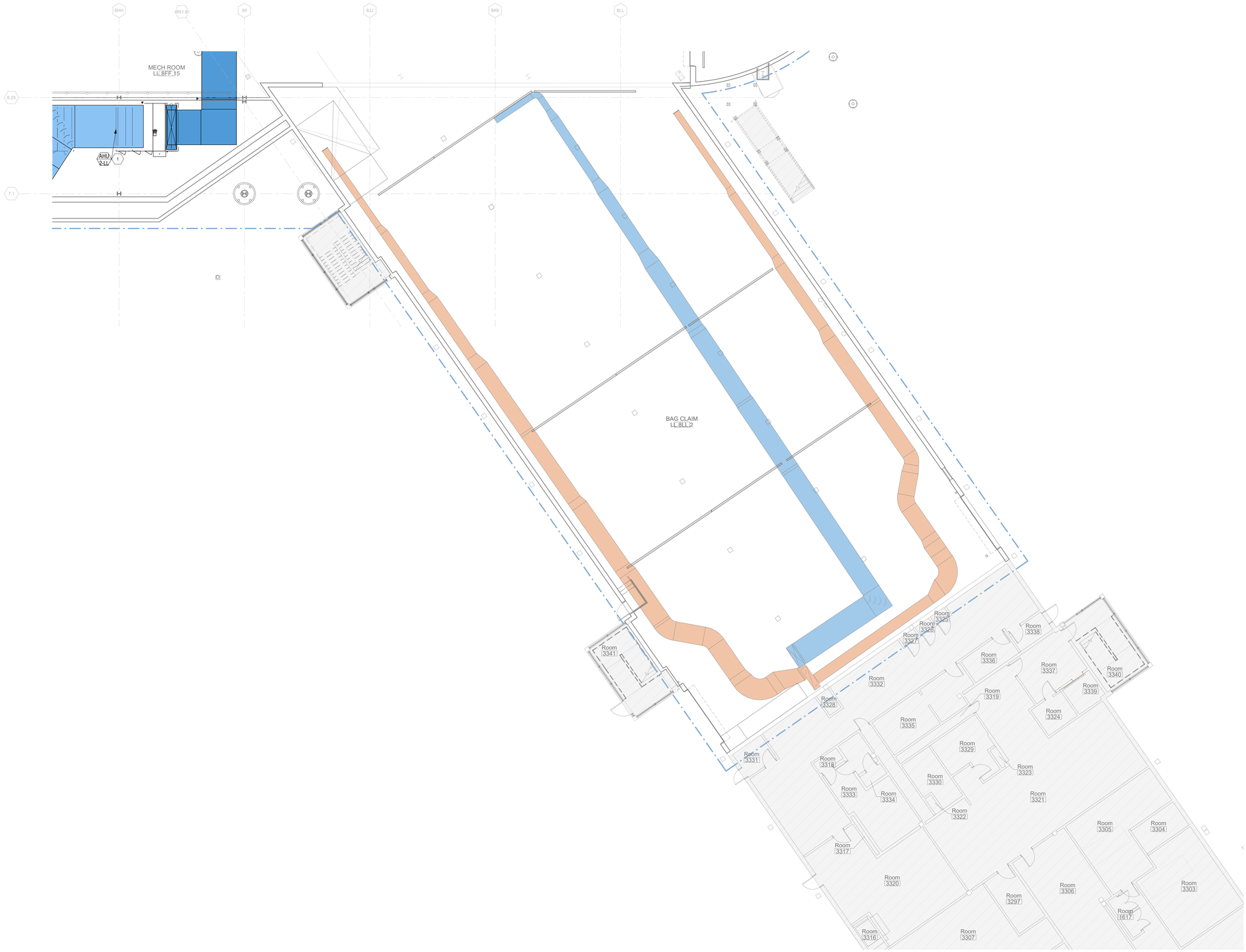

1A MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 8:23:51 PM

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MILHOUSE

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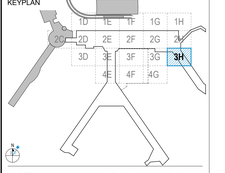
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN LOWER LEVEL - AREA 3H

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
VOLUME: **2**

M2.1.02.3H

1 EXTEND EXISTING BUILDING RETURN AIR DUCT AND RELOCATE EXISTING GRILLE TO FACE OF NEW WALL. REBALANCE TO NEW RETURN AIR FLOW.
2 ROUTE SUPPLY AIR DUCTWORK TIGHT TO THE WALL DOWN INTO THE LOW CEILING PLENUM ON THE UPPER LEVEL.
3 PROVIDE NEW VAV BOXES WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. REFER TO MECHANICAL SCHEDULES AND DETAILS. BALANCE BOX TO CFM SHOWN ON PLAN. CONNECT NEW EQUIPMENT TO BASE BUILDING BAS SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED. TYPICAL FOR ALL VAVS.

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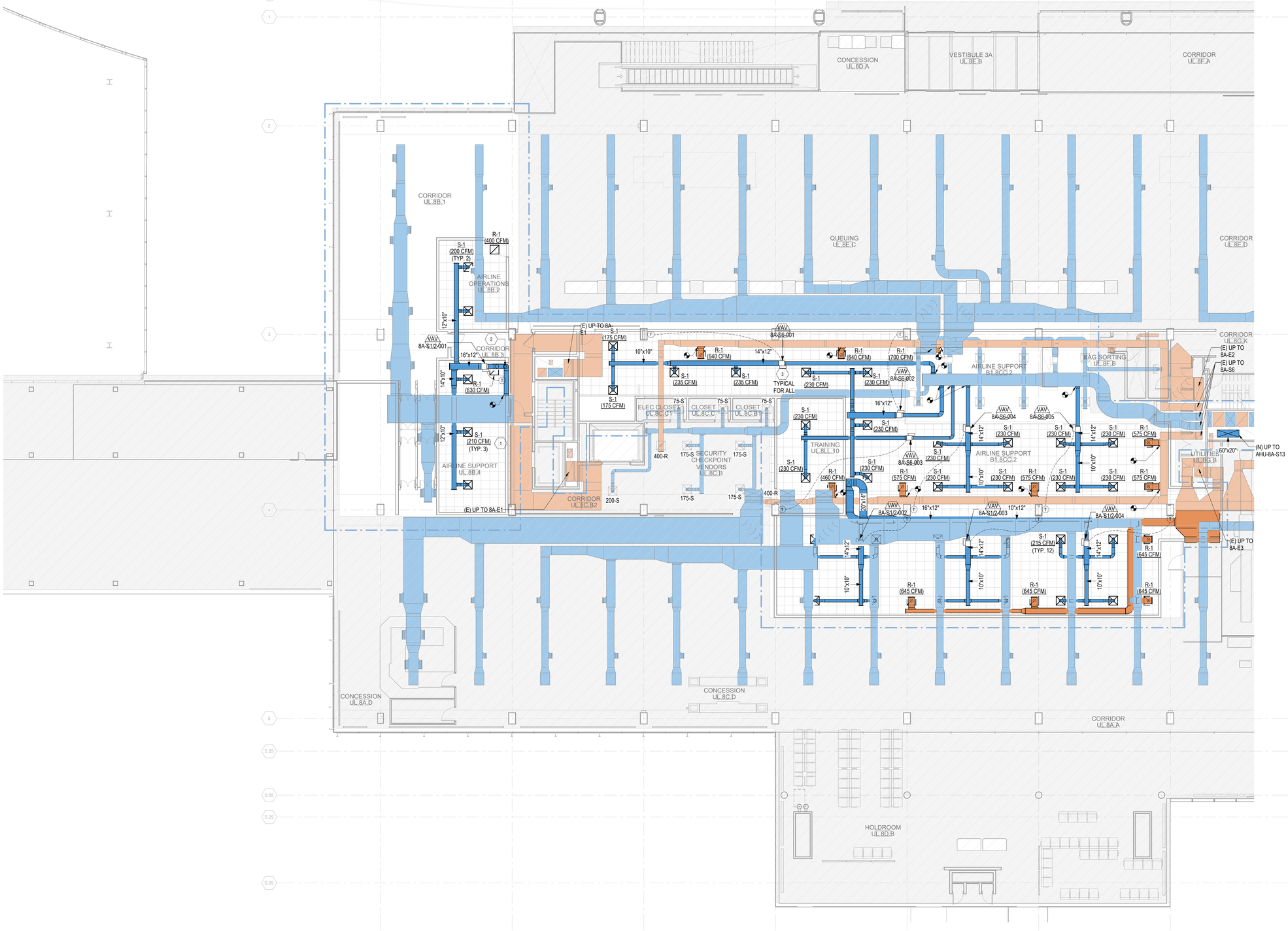

1A MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:12:29 PM

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CITY OF CHICAGO
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PHASE
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REVISION
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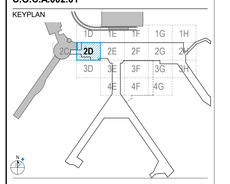
KEYPLAN



MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2D

DRAWN BY: **KS**
CHECKED BY: **HC**

SHEET NUMBER
M2.1.03.2D

VOLUME: **2**

1 PROVIDE NEW VAV BOXES WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. REFER TO MECHANICAL SCHEDULES AND DETAILS. BALANCE BOX TO CFM SHOWN ON PLAN. CONNECT NEW EQUIPMENT TO BASE BUILDING BAS SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED. TYPICAL FOR ALL VAVS.

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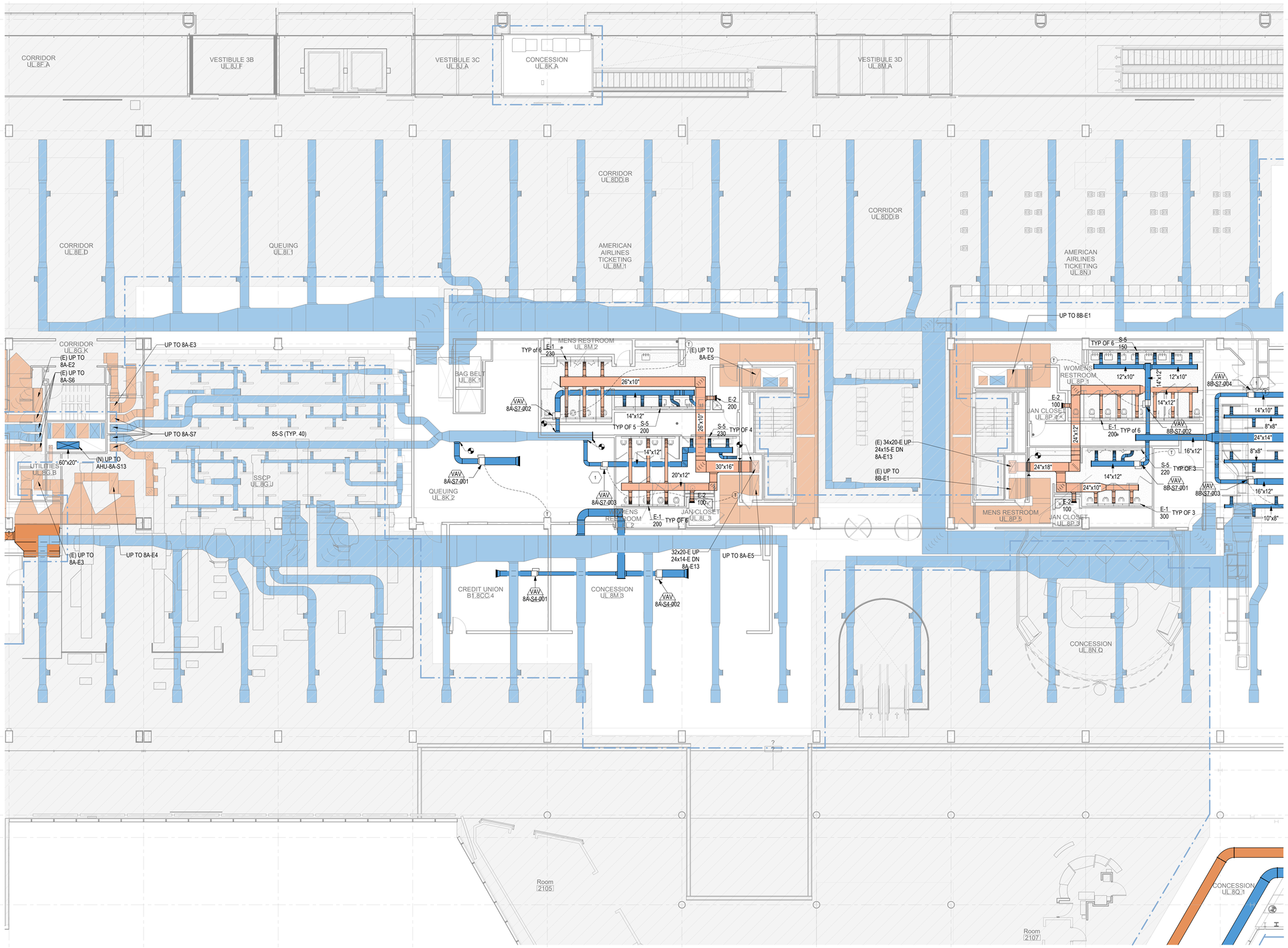

1A MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2E
1/8" = 1'-0"

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3/22/2023 1:13:11 PM

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
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10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

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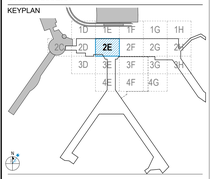
ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

KEYPLAN



MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2E

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER: **M2.1.03.2E** VOLUME: **2**

1 PROVIDE NEW 4 PIPE FCU WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. PROVIDE RETURN AIR DUCT BOOT ON RETURN AIR SIDE OF FCU. REFER TO MECHANICAL SCHEDULES AND DETAILS. CONNECT NEW EQUIPMENT TO BASE BUILDING M&V SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED.

2 PROVIDE GATE PRESSURIZATION TRANSFER FAN TO BE INTERLOCKED WITH BOARDING GATE DOOR. WHEN GATE DOOR IS OPEN, FAN SHALL BE ENABELED AND CONTROLLED TO PROVIDE POSITIVE PRESSURIZATION TO THE BOARDING GATE TO MEET NFPA-415 REQUIREMENTS.

3 PROVIDE NEW VAV BOXES WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. REFER TO MECHANICAL SCHEDULES AND DETAILS. BALANCE BOX TO CFM SHOWN ON PLAN. CONNECT NEW EQUIPMENT TO BASE BUILDING BAS SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED. TYPICAL FOR ALL VAVS.

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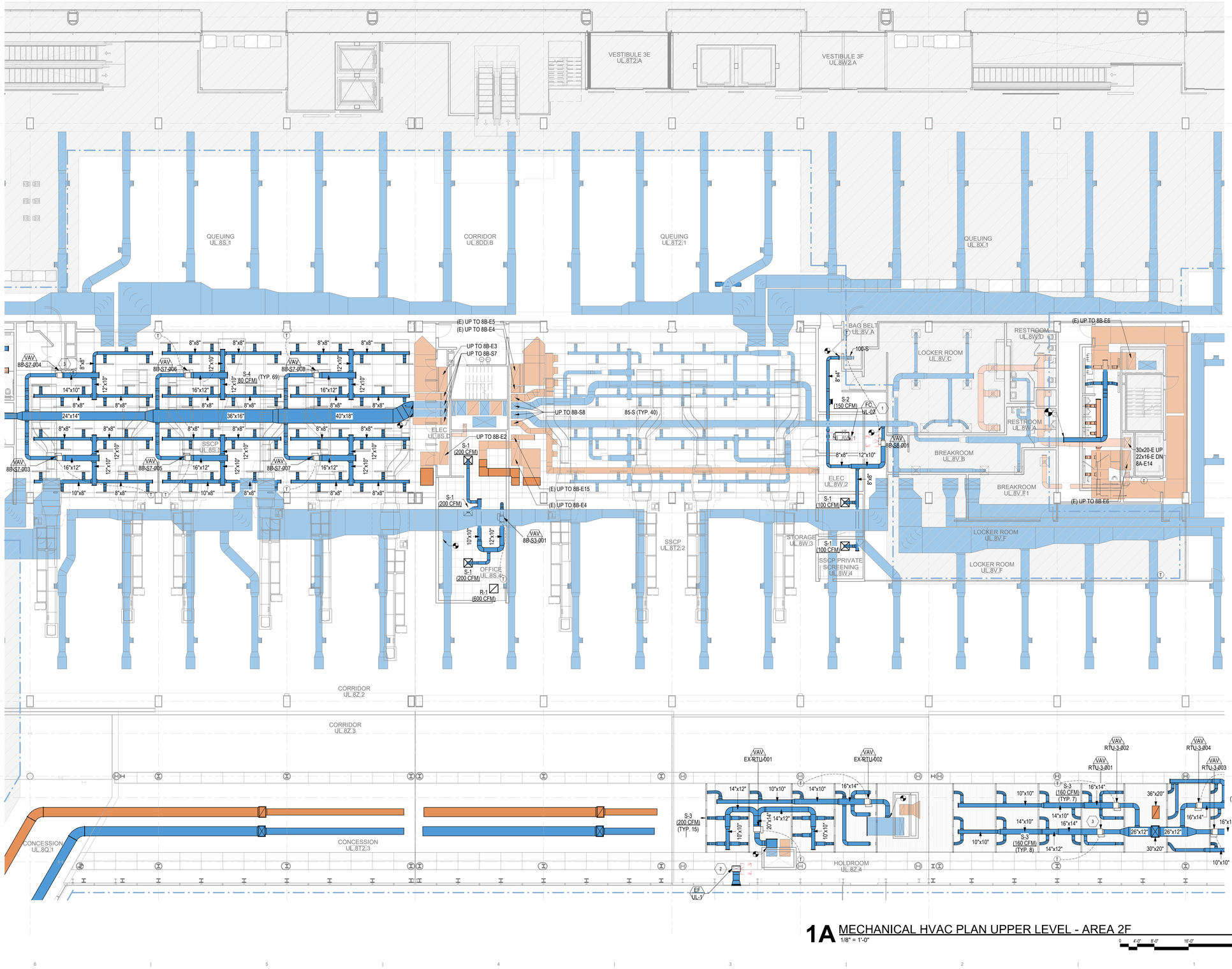

1A MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2F

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CITY OF CHICAGO
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MAYOR

CHICAGO DEPARTMENT OF AVIATION
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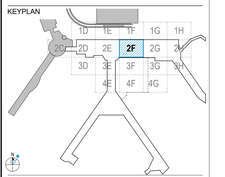

MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2F

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER VOLUME: **2**

M2.1.03.2F

1. PROVIDE NEW VAV BOXES WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. REFER TO MECHANICAL SCHEDULES AND DETAILS. BALANCE BOX TO CFM SHOWN ON PLAN. CONNECT NEW EQUIPMENT TO BASE BUILDING BAS SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED. TYPICAL FOR ALL VAVS.
2. PROVIDE NEW 4 PIPE FCU WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. PROVIDE RETURN AIR DUCT BOOT ON RETURN AIR SIDE OF FCU. REFER TO MECHANICAL SCHEDULES AND DETAILS. CONNECT NEW EQUIPMENT TO BASE BUILDING MAV SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED.
3. PROVIDE TEMPORARY HEATING IN TENANT SPACES BEFORE THEY ARE TURNED OVER AS REQUIRED TO MAINTAIN MINIMUM 65 DEGREES. PHASING TO BE COORDINATED WITH CONTRACTOR AND OWNER.
4. PROVIDE GATE PRESSURIZATION TRANSFER FAN TO BE INTERLOCKED WITH BOARDING GATE DOOR. WHEN GATE DOOR IS OPEN, FAN SHALL BE ENABELED AND CONTROLLED TO PROVIDE POSITIVE PRESSURIZATION TO THE BOARDING GATE TO MEET NFPA-415 REQUIREMENTS.

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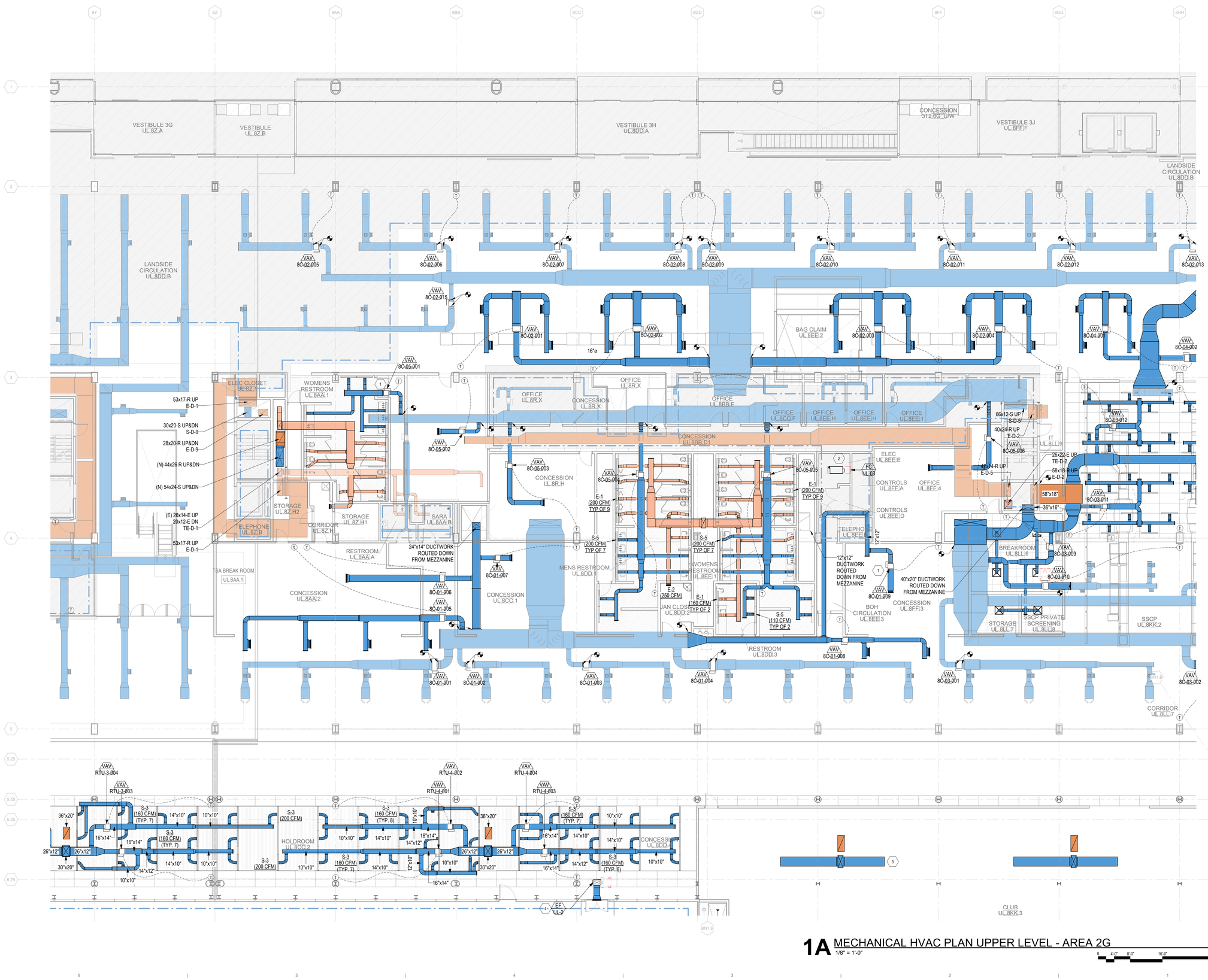

1A MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2G

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

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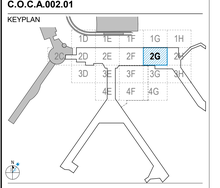
ISSUANCE: **60% DESIGN** — PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD** — REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2G

DRAWN BY: **KS** — CHECKED BY: **HC**
SHEET NUMBER — VOLUME: **2**

M2.1.03.2G

3/22/2023 1:14:45 PM

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1 PROVIDE TEMPORARY HEATING IN TENANT SPACES BEFORE THEY ARE TURNED OVER AS REQUIRED TO MAINTAIN MINIMUM 65 DEGREES. PHASING TO BE COORDINATED WITH CONTRACTOR AND OWNER.

2 PROVIDE NEW VAV BOXES WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. REFER TO MECHANICAL SCHEDULES AND DETAILS. BALANCE BOX TO CFM SHOWN ON PLAN. CONNECT NEW EQUIPMENT TO BASE BUILDING BAS SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED. TYPICAL FOR ALL VAVS.

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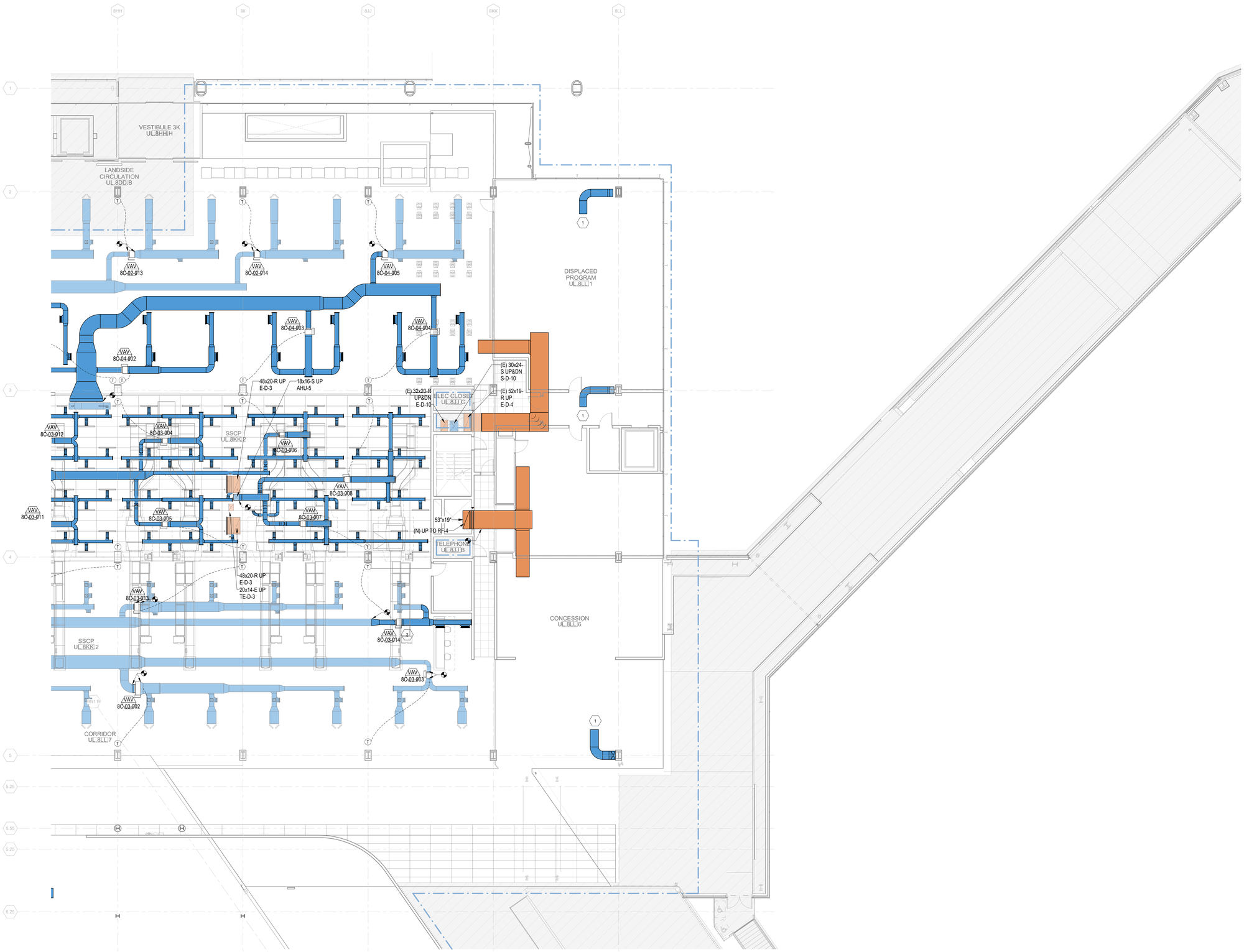

1A MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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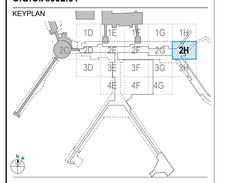

MECHANICAL HVAC PLAN UPPER LEVEL - AREA 2H

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER **M2.1.03.2H** VOLUME: **2**

1 PROVIDE GATE PRESSURIZATION TRANSFER FAN TO BE INTERLOCKED WITH BOARDING GATE DOOR. WHEN GATE DOOR IS OPEN, FAN SHALL BE ENABELED AND CONTROLLED TO PROVIDE POSITIVE PRESSURIZATION TO THE BOARDING GATE TO MEET NFPA-415 REQUIREMENTS.

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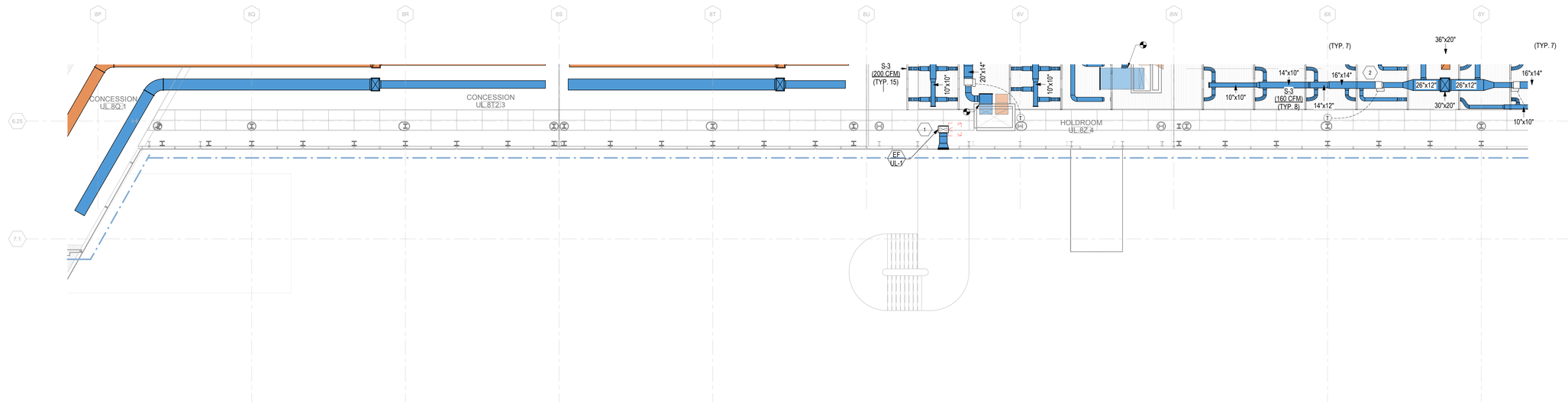

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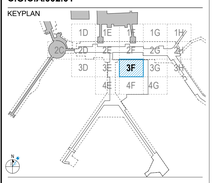

MECHANICAL HVAC PLAN UPPER LEVEL - AREA 3F

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER VOLUME: **2**

M2.1.03.3F

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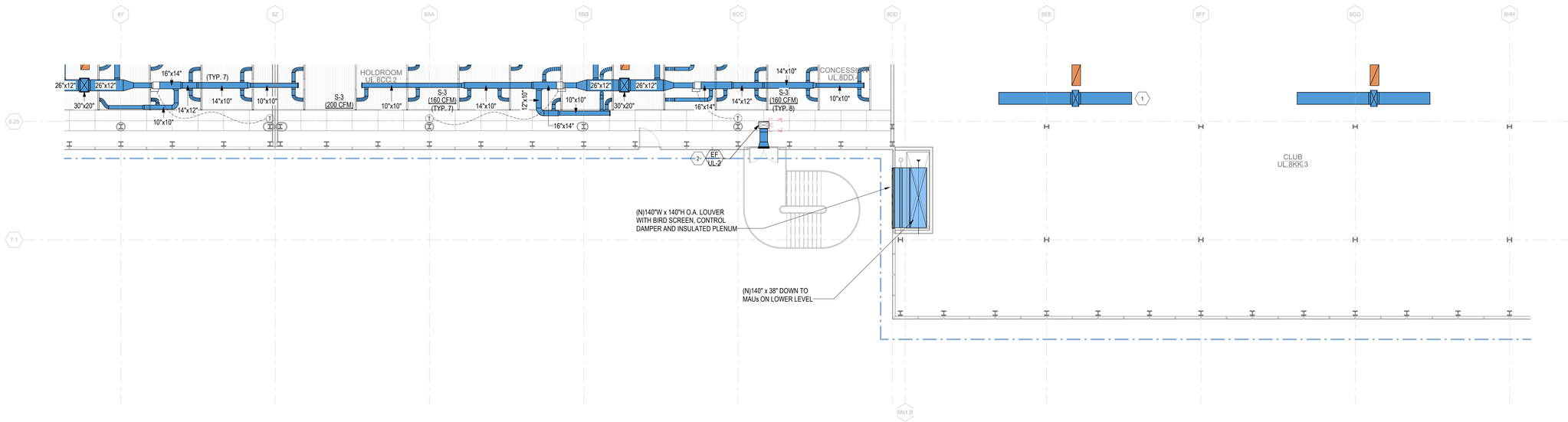

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KEYPLAN



MECHANICAL HVAC PLAN UPPER LEVEL - AREA 3G

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER **M2.1.03.3G** VOLUME: **2**

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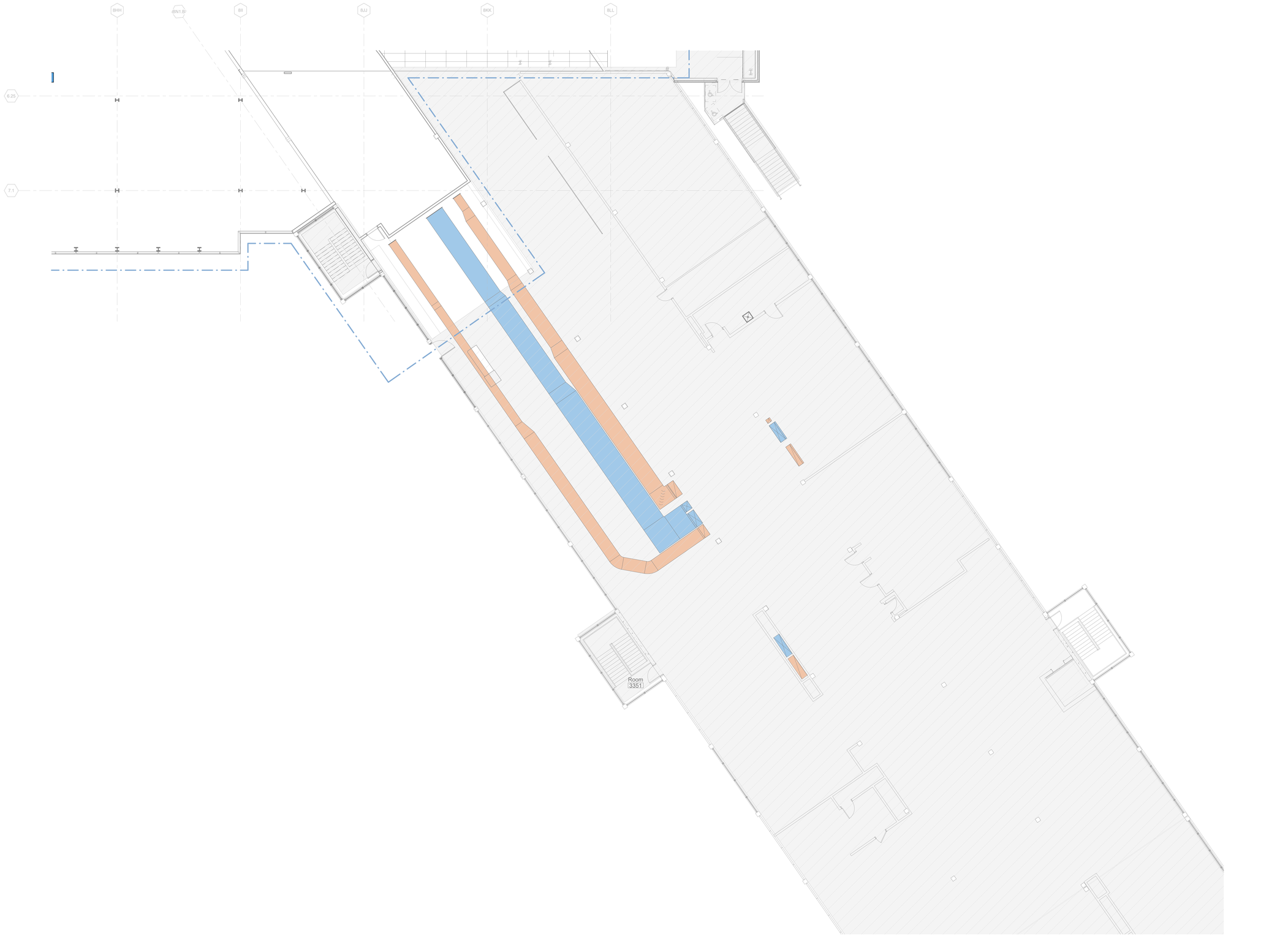

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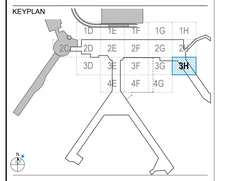

MECHANICAL HVAC PLAN UPPER LEVEL - AREA 3H

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER VOLUME: **2**

M2.1.03.3H

3/19/2023 8:29:45 PM

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1 ROUTE SUPPLY AIR DUCTWORK TIGHT TO THE WALL DOWN INTO THE LOW CEILING PLENUM ON THE UPPER LEVEL.

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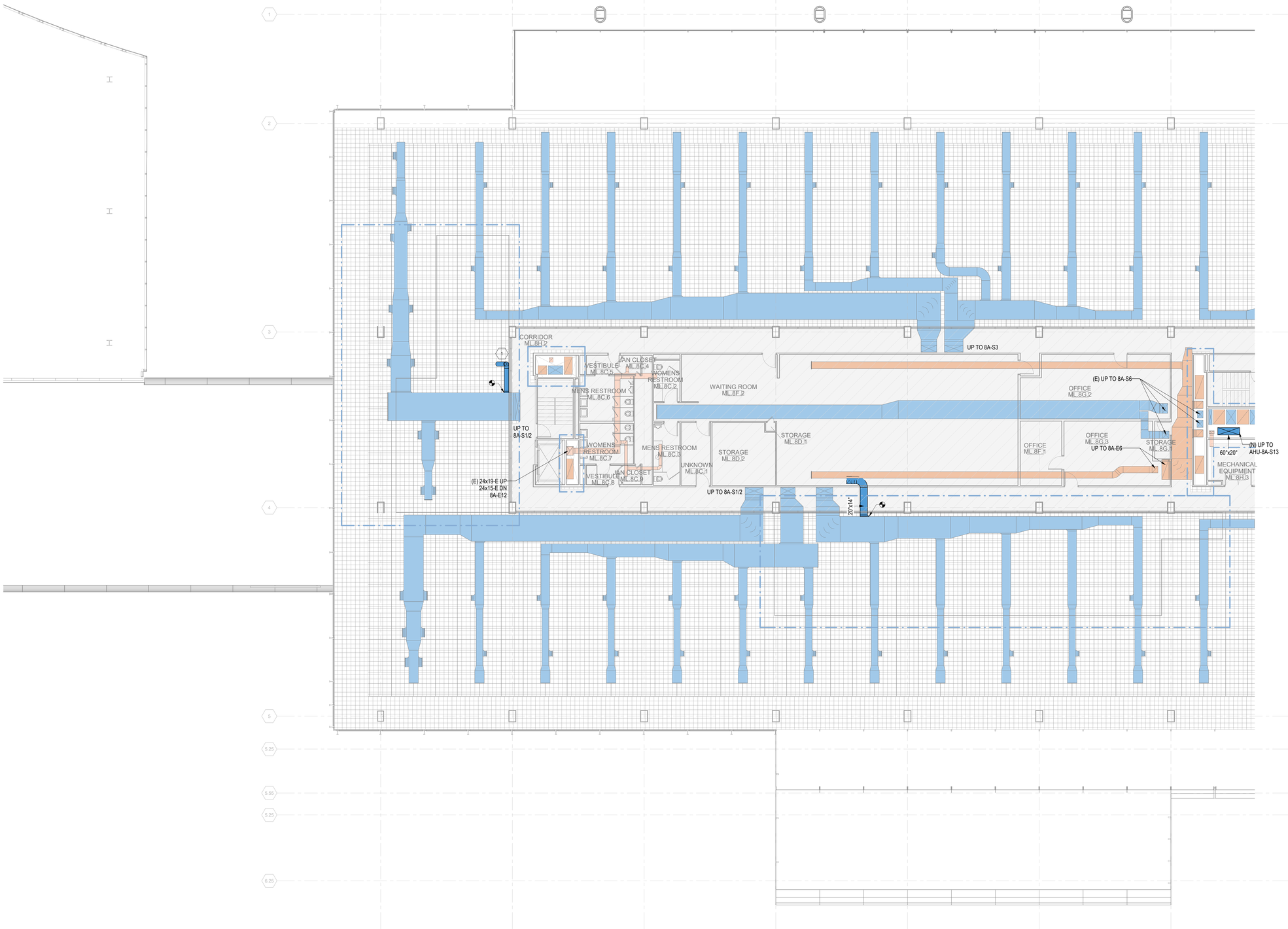

1A MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/22/2023 1:16:17 PM

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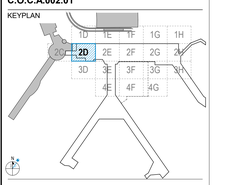

MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2D

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER VOLUME: **2**

M2.1.04.2D

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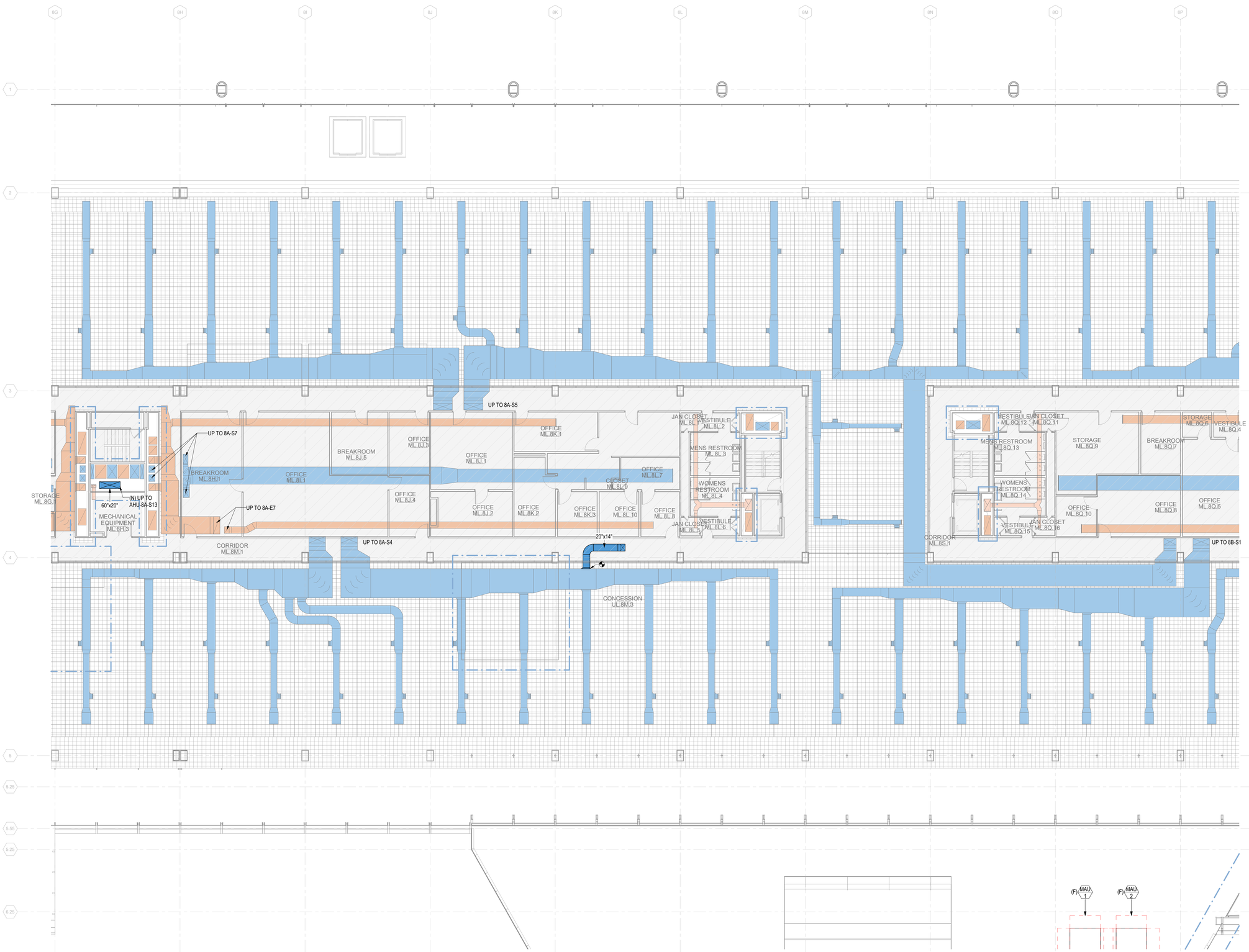

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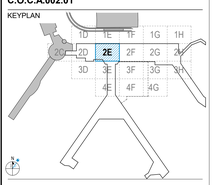

MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2E

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VOLUME: **2**

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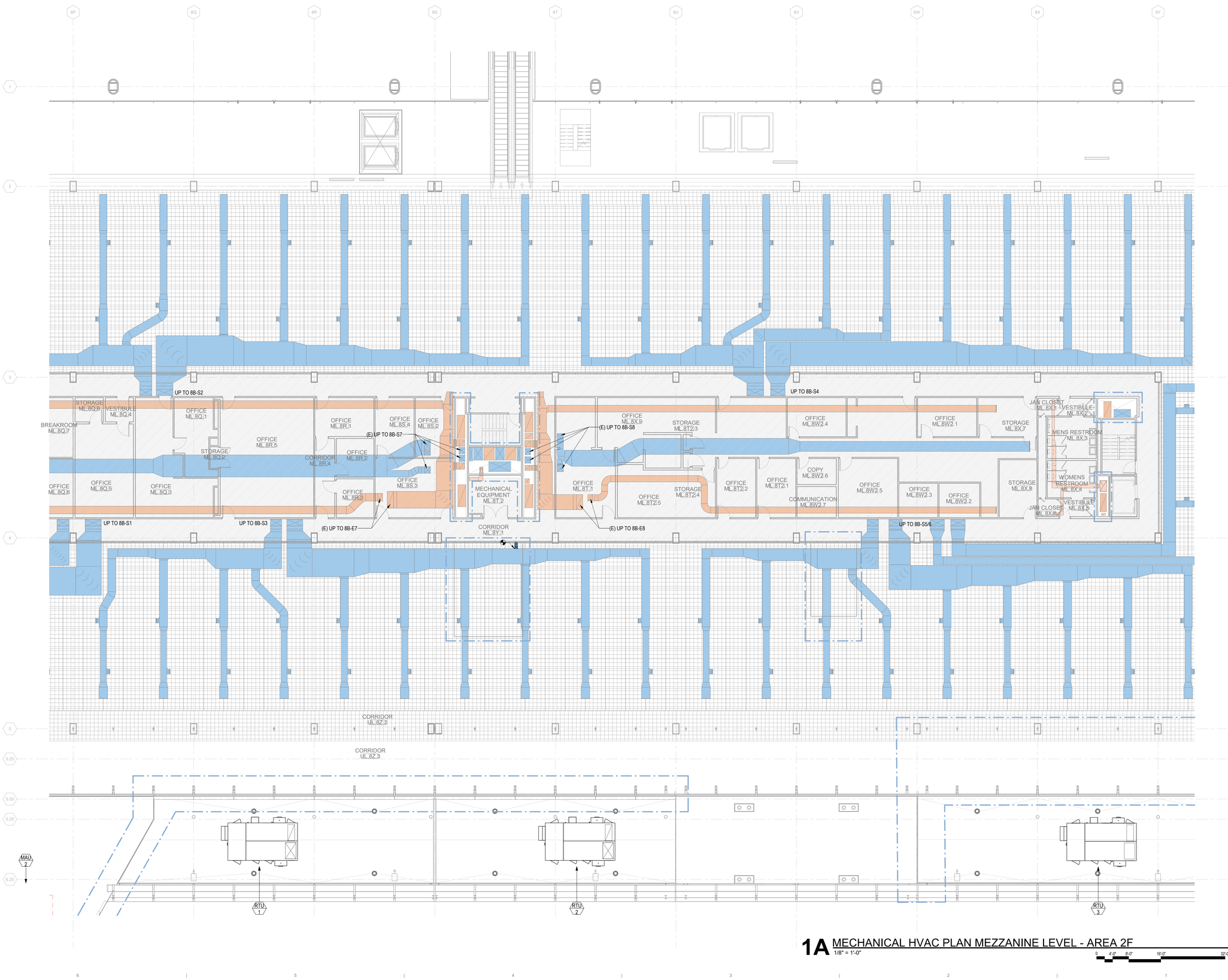

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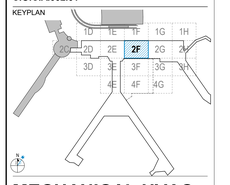

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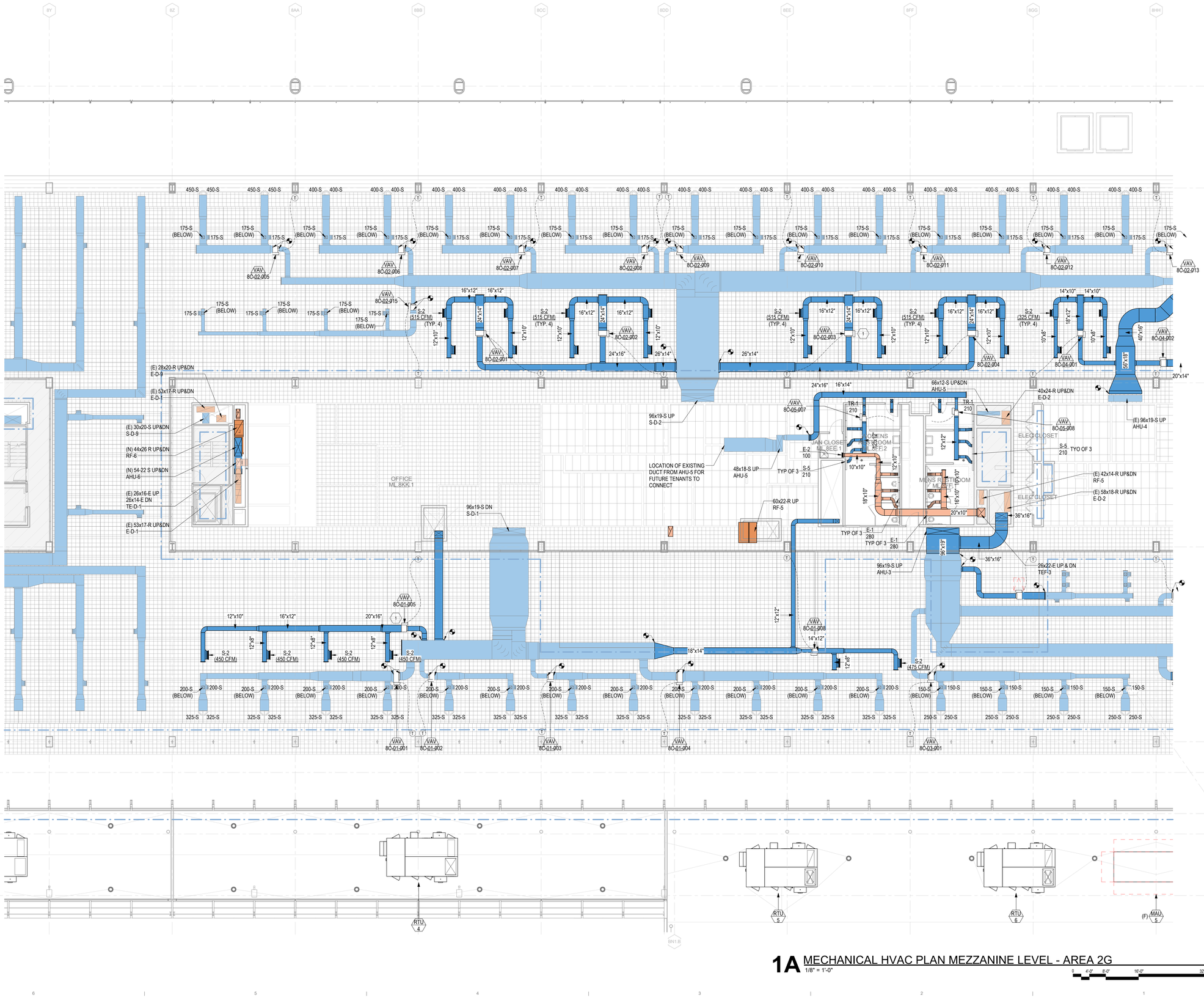

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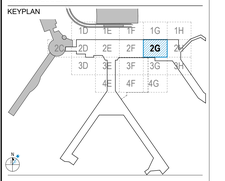
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2G

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
M2.1.04.2G
VOLUME: **2**

3/22/2023 1:18:11 PM

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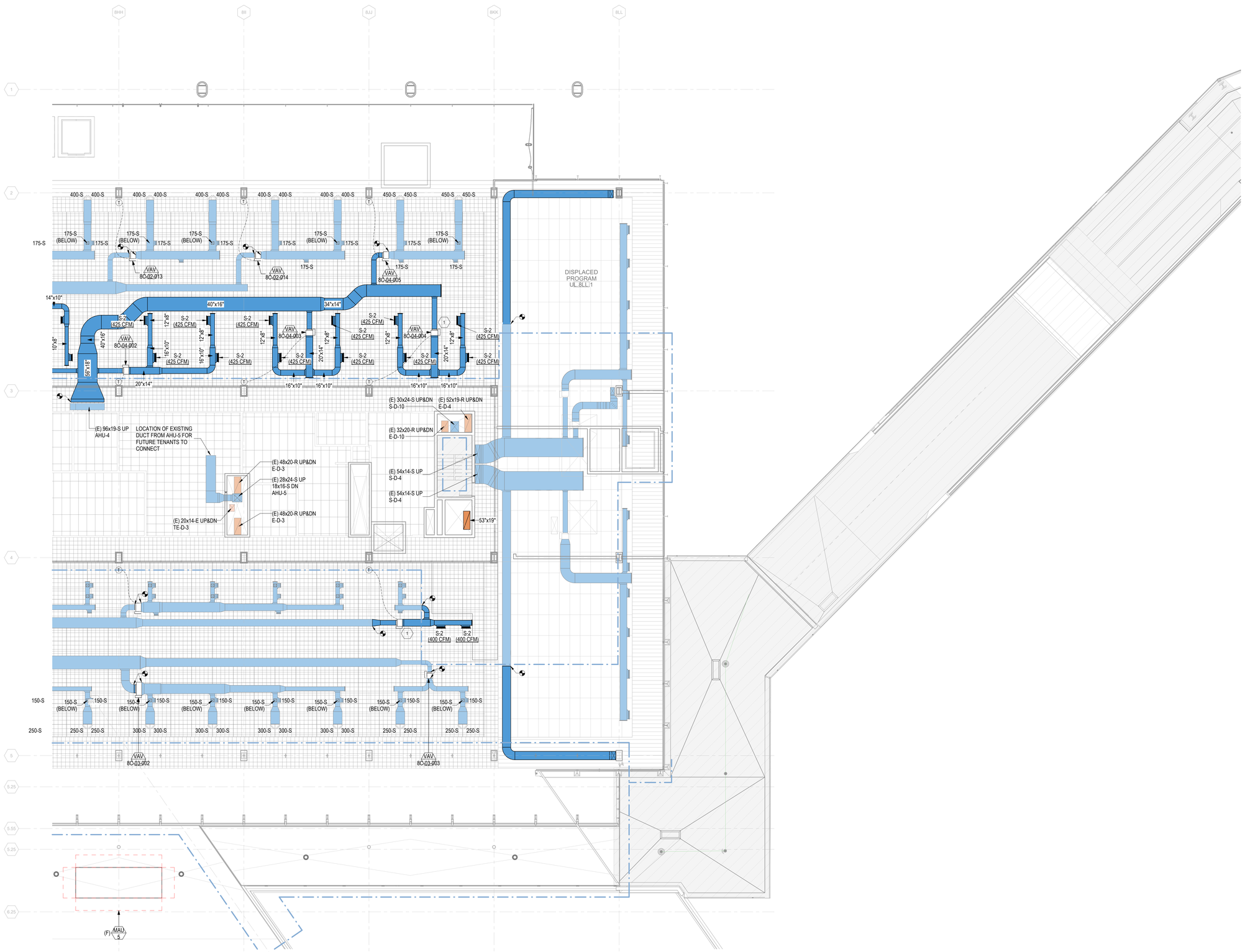
1 PROVIDE NEW VAV BOXES WITH NEW DDC CONTROLS, DUCTWORK, DIFFUSERS, HANGERS, AND SUPPORTS. REFER TO MECHANICAL SCHEDULES AND DETAILS. BALANCE BOX TO CFM SHOWN ON PLAN. CONNECT NEW EQUIPMENT TO BASE BUILDING BAS SYSTEM. MODIFY AND UPGRADE GRAPHICS AS REQUIRED. TYPICAL FOR ALL VAVS.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

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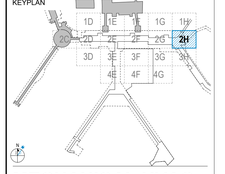
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

KEYPLAN



MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 2H

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER **M2.1.04.2H** VOLUME: **2**

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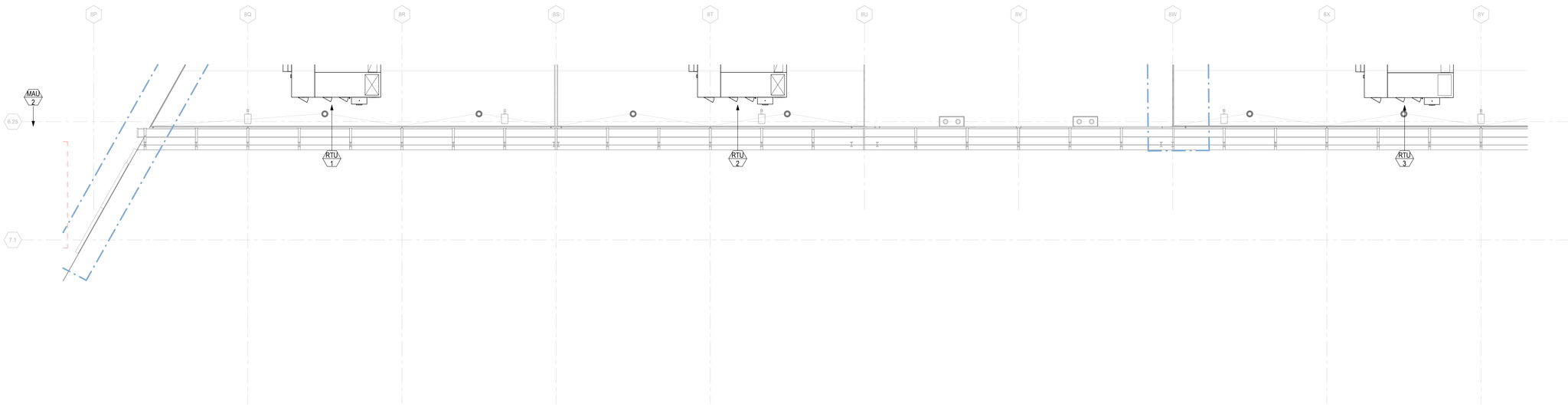

1A MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 3F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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CDA Chicago Department of Aviation

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JAMIE L. RHEE
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C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 3F

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER **M2.1.04.3F** VOLUME: **2**

3/19/2023 8:34:04 PM

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1 PROVIDE NEW LOUVER FOR OUTDOOR AIR INTAKE. REFER TO SCHEDULE FOR SIZE. PROVIDE A BIRD SCREEN AND MOTORIZED CONTROL DAMPER. COORDINATE FINAL LOCATION AND FINISH WITH ARCHITECT.

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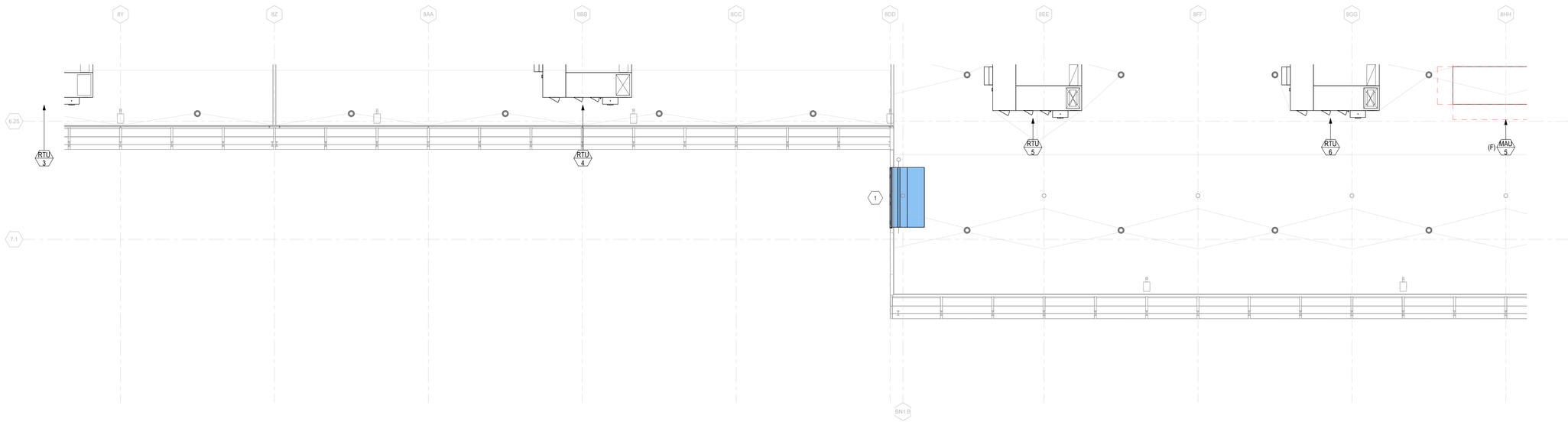

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DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER VOLUME: **2**

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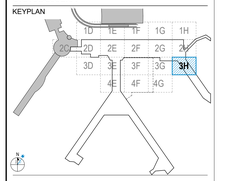

MECHANICAL HVAC PLAN MEZZANINE LEVEL - AREA 3H

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER VOLUME: **2**

M2.1.04.3H

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1 PROVIDE NEW AIR HANDLING UNIT WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. VERIFY EXACT LOCATION IN FIELD. REUSE EXISTING CONCRETE PAD WHEN POSSIBLE. MODIFY AS REQUIRED TO ACCOMMODATE NEW UNIT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

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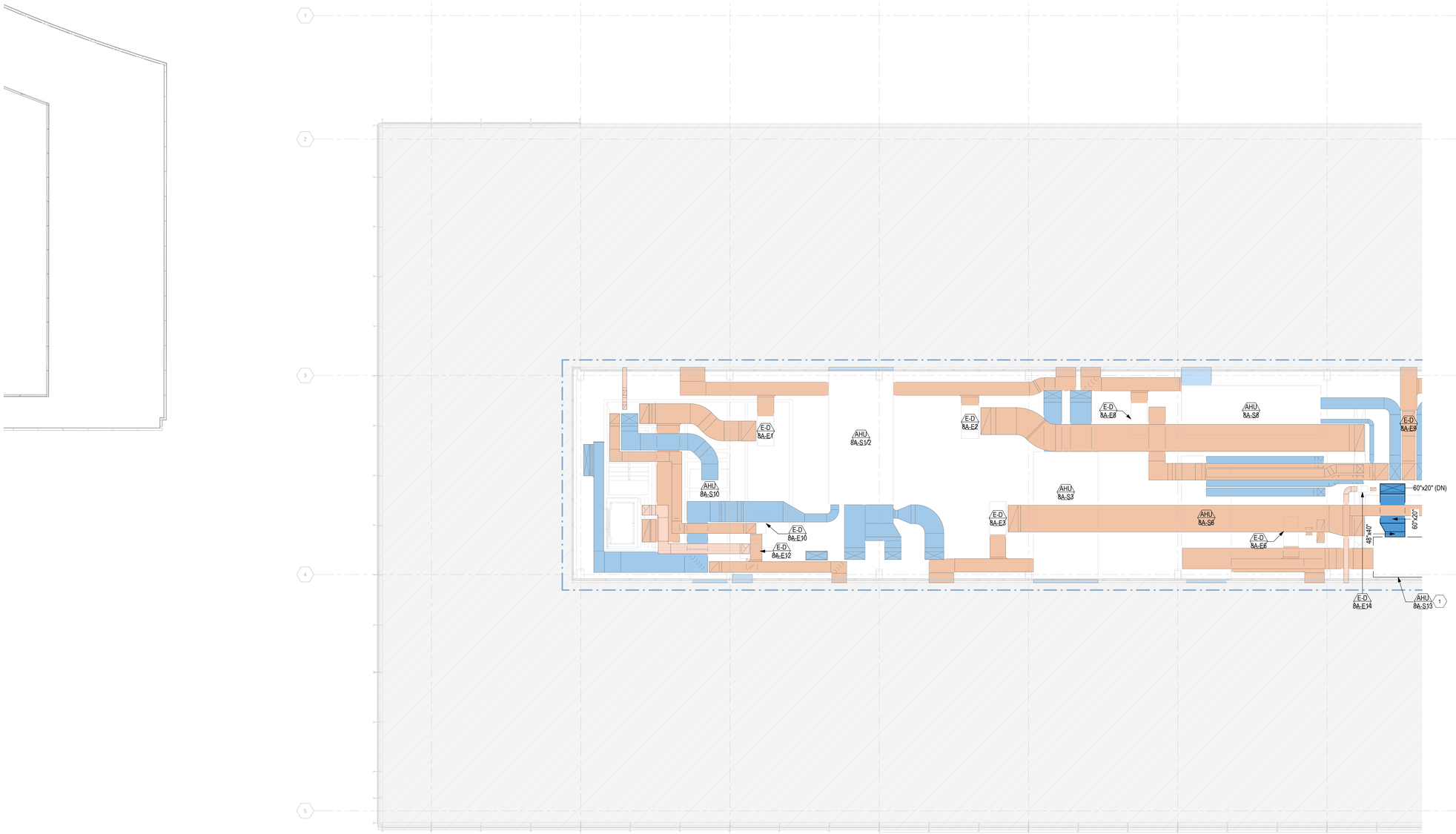

1A MECHANICAL HVAC PLAN PENTHOUSE - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 8:36:02 PM

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CITY OF CHICAGO
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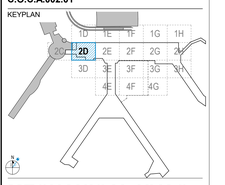
KEYPLAN



MECHANICAL HVAC PLAN PENTHOUSE - AREA 2D

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
M2.1.05.2D
VOLUME: **2**

1 PROVIDE NEW AIR HANDLING UNIT WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. VERIFY EXACT LOCATION IN FIELD. REUSE EXISTING CONCRETE PAD WHEN POSSIBLE. MODIFY AS REQUIRED TO ACCOMMODATE NEW UNIT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

2 PROVIDE NEW EXHAUST FAN WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. REFER TO SCHEDULE.

3 EXTEND NEW TOILET EXHAUST DUCTWORK FROM NEW TOILET EXHAUST FAN TO EXISTING LOUVERS. MODIFY EXISTING LOUVER OPENING AS REQUIRED. MAINTAIN MINIMUM OF 15FT SEPARATION FROM ANY EXISTING AND NEW OUTDOOR AIR INTAKE.

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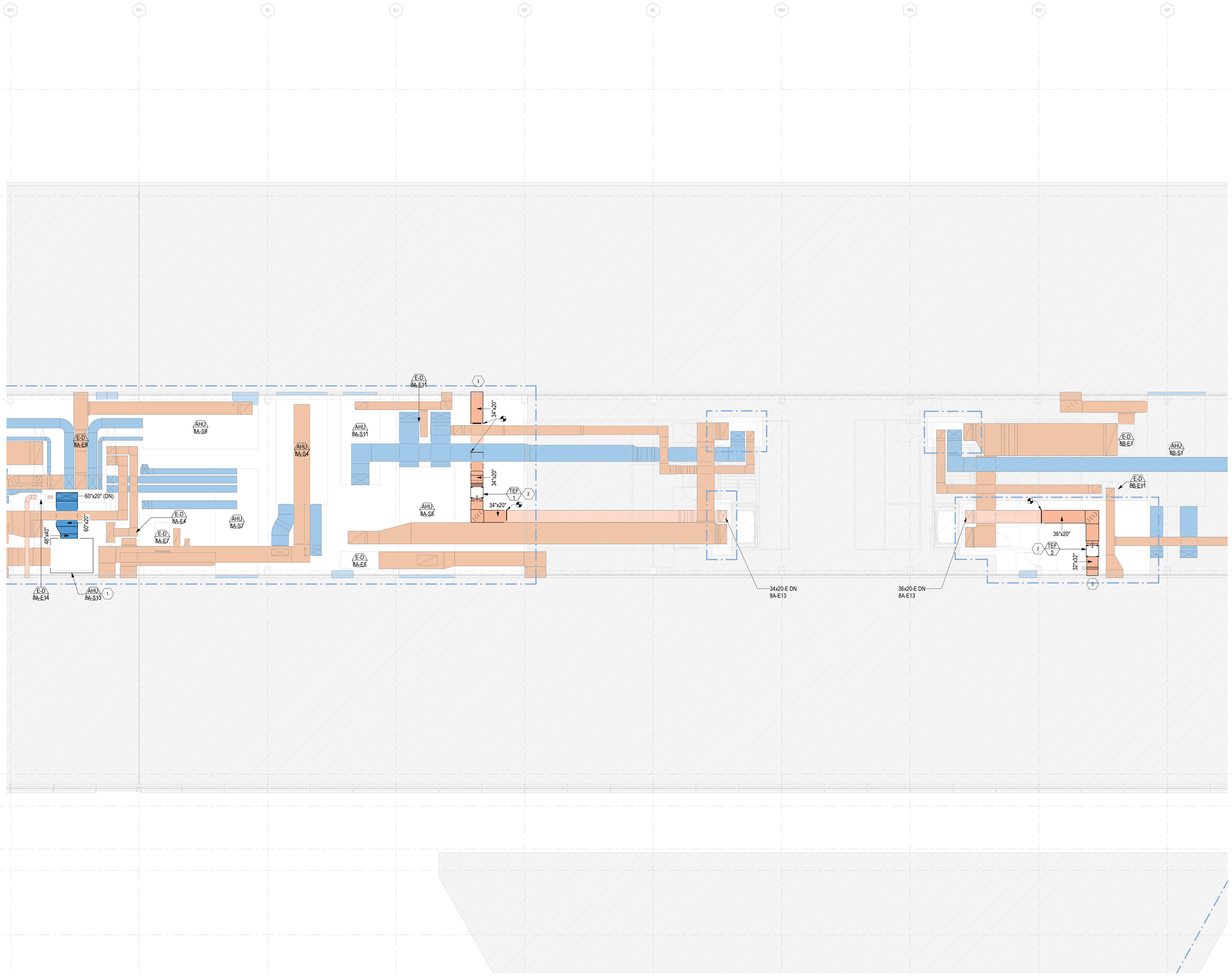

1A MECHANICAL HVAC PLAN PENTHOUSE - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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MAYOR

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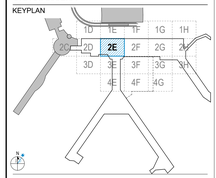

MECHANICAL HVAC PLAN PENTHOUSE - AREA 2E

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SHEET NUMBER **M2.1.05.2E** VOLUME: **2**

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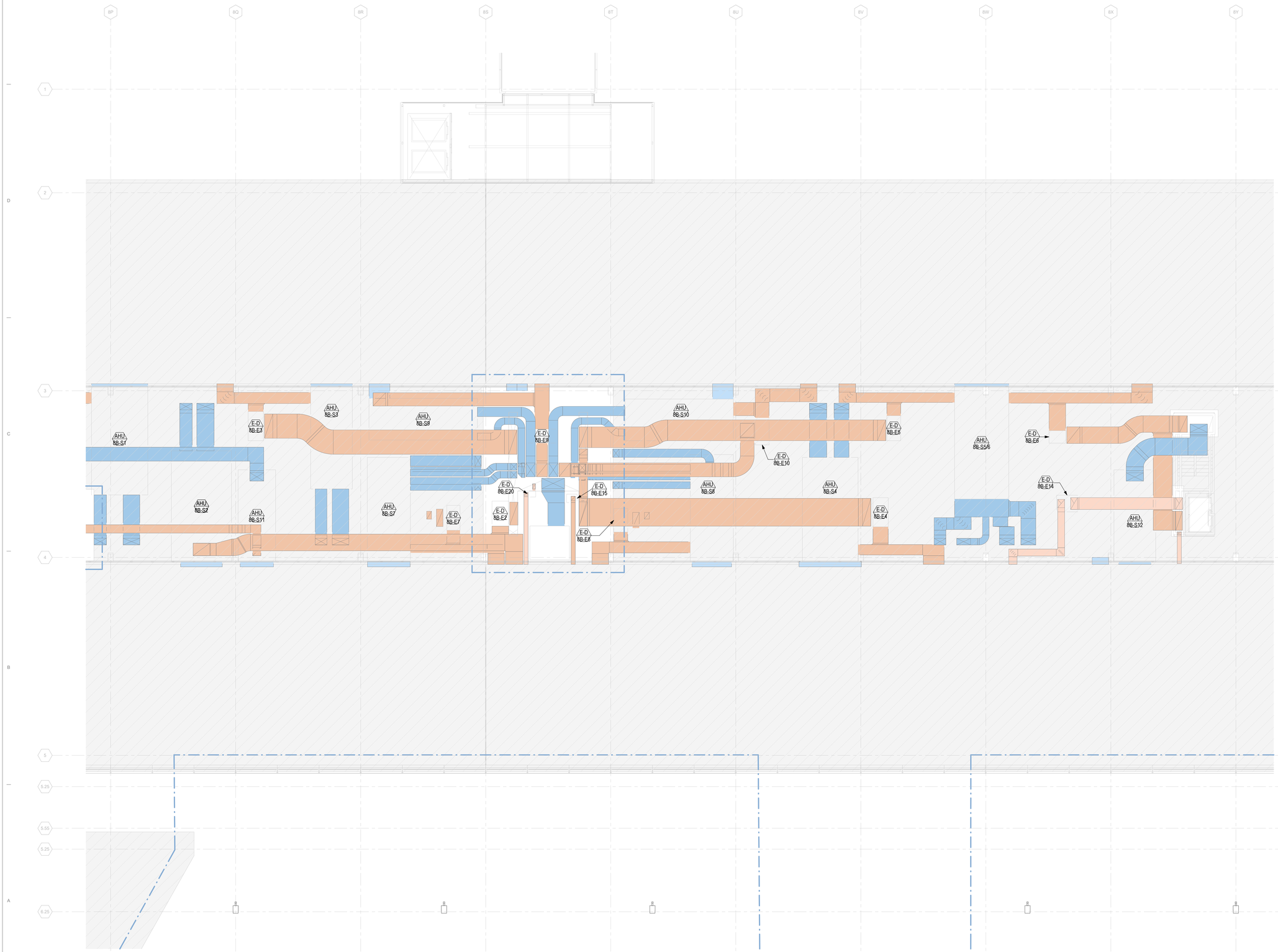

1A MECHANICAL HVAC PLAN PENTHOUSE - AREA 2F
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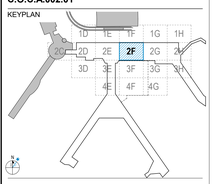

MECHANICAL HVAC PLAN PENTHOUSE - AREA 2F

DRAWN BY: **KS**
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SHEET NUMBER
VOLUME: **2**

M2.1.05.2F

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1 EXTEND NEW TOILET EXHAUST DUCTWORK FROM NEW TOILET EXHAUST FAN TO EXISTING LOUVERS. MODIFY EXISTING LOUVER OPENING AS REQUIRED. MAINTAIN MINIMUM OF 15FT SEPARATION FROM ANY EXISTING AND NEW OUTDOOR AIR INTAKE.

2 PROVIDE NEW AIR HANDLING UNIT WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. VERIFY EXACT LOCATION IN FIELD. REUSE EXISTING CONCRETE PAD WHEN POSSIBLE. MODIFY AS REQUIRED TO ACCOMMODATE NEW UNIT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

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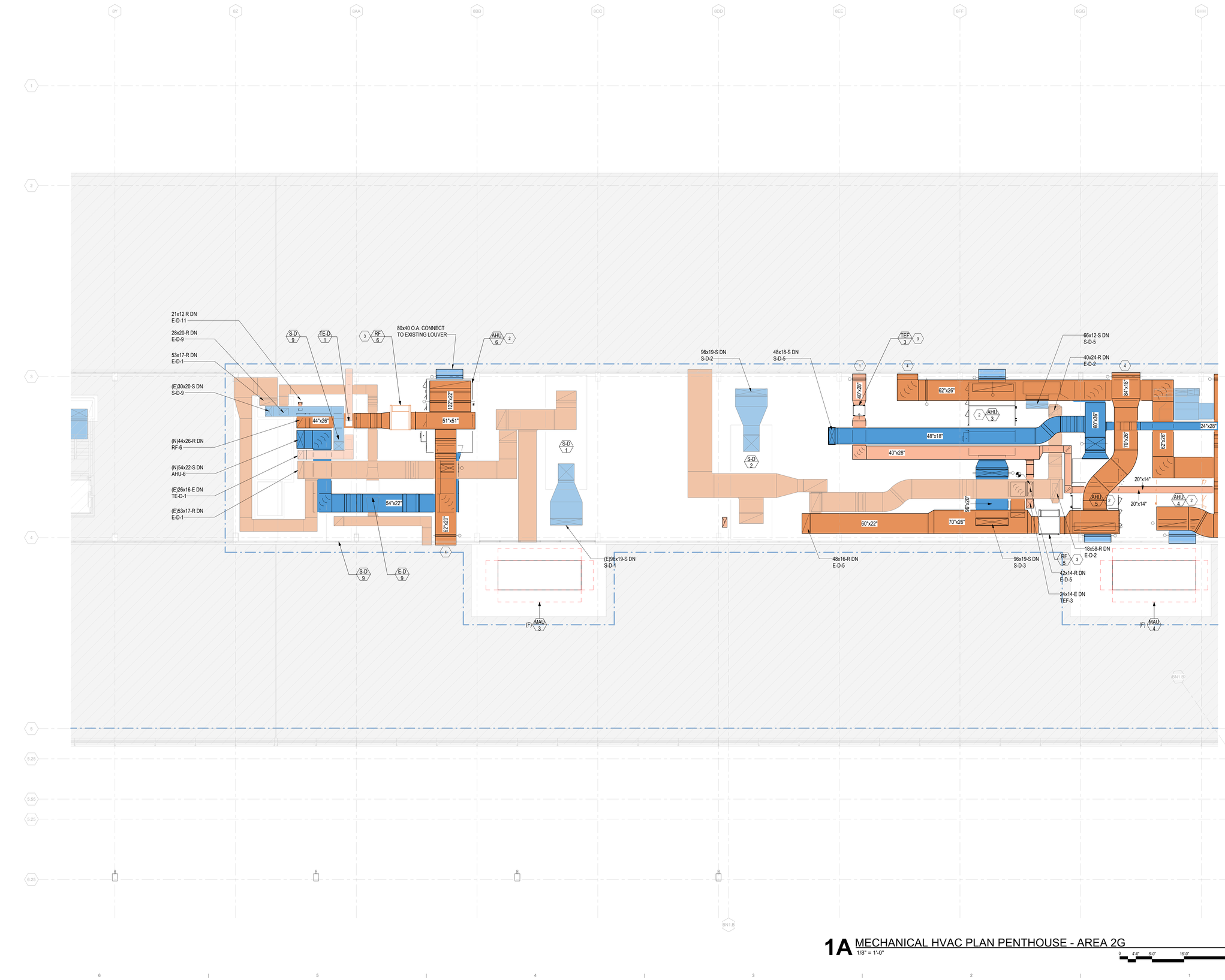

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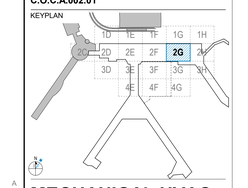

MECHANICAL HVAC PLAN PENTHOUSE - AREA 2G

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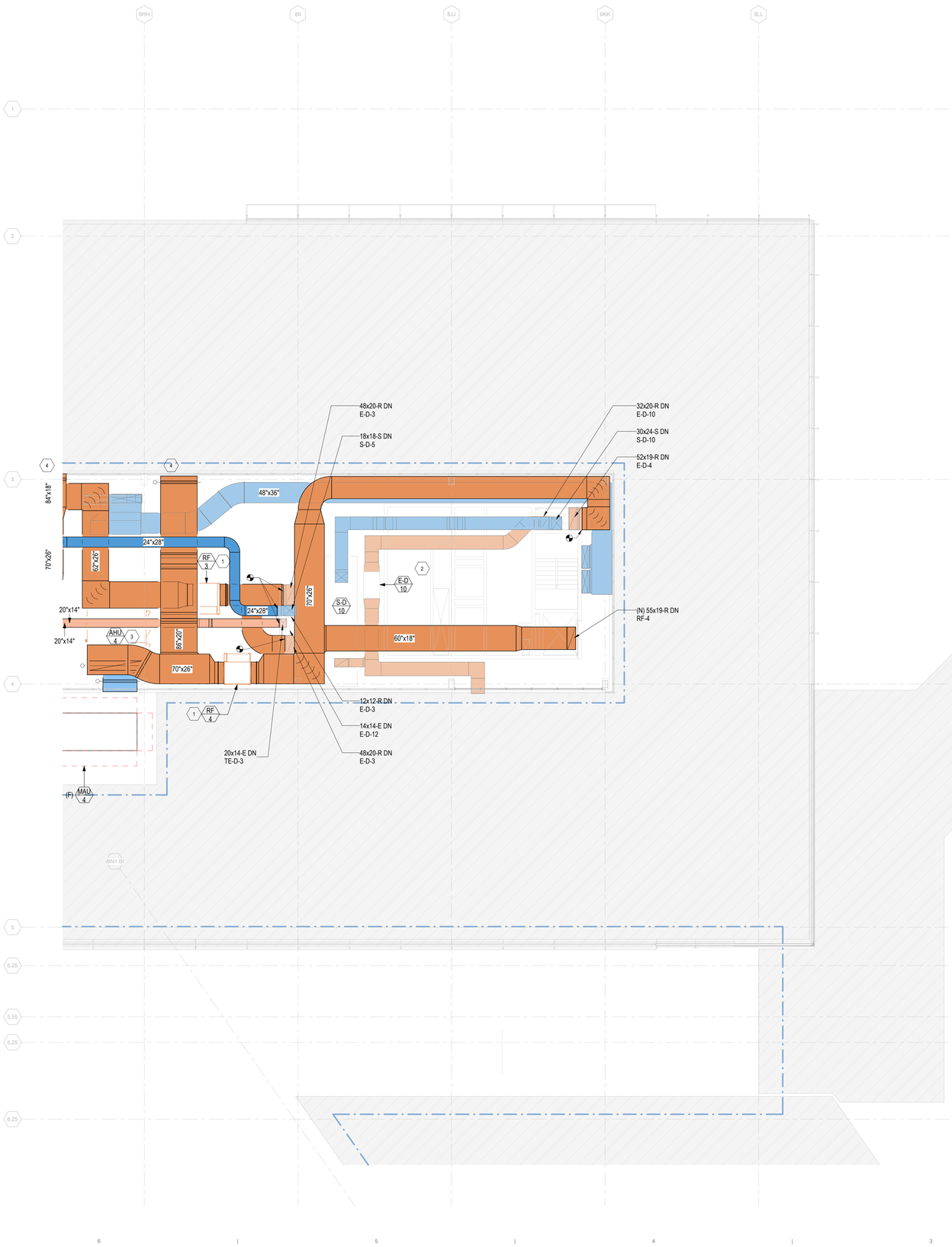
M2.1.05.2G

1 PROVIDE NEW EXHAUST FAN WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. REFER TO SCHEDULE.
2 EXISTING SUPPLY AND RETURN DIFFUSERS TO REMAIN. CONTRACTOR TO DEMOLISH ALL EXISTING DUCTWORK BACK TO MAIN. PATCH AND SEAL TO MATCH EXISTING. PROVIDE NEW DUCTWORK TO SERVE OCCUPIABLE SPACE ON PENTHOUSE LEVEL AND CONNECT TO AHU-6 AND DIFFUSERS.
3 PROVIDE NEW AIR HANDLING UNIT WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. VERIFY EXACT LOCATION IN FIELD. REUSE EXISTING CONCRETE PAD WHEN POSSIBLE. MODIFY AS REQUIRED TO ACCOMMODATE NEW UNIT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.
4 EXTEND NEW EXHAUST DUCTWORK FROM NEW RETURN EXHAUST FAN TO EXISTING LOUVERS. MODIFY EXISTING LOUVER OPENING AS REQUIRED. MAINTAIN MINIMUM OF 15FT SEPARATION FROM ANY EXISTING AND NEW OUTDOOR AIR INTAKE.

GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.



1A MECHANICAL HVAC PLAN PENTHOUSE - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 8:38:42 PM

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CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

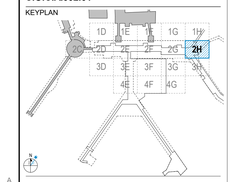
REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN



MECHANICAL HVAC PLAN PENTHOUSE - AREA 2H

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
M2.1.05.2H
VOLUME: **2**

1 PROVIDE NEW AIR HANDLING UNIT WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. VERIFY EXACT LOCATION IN FIELD. REUSE EXISTING CONCRETE PAD WHEN POSSIBLE. MODIFY AS REQUIRED TO ACCOMMODATE NEW UNIT. REFER TO SCHEDULE. COORDINATE WITH ELECTRICAL AND PIPING DRAWINGS.

2 PROVIDE NEW EXHAUST FAN WITH ASSOCIATED CONTROLS, POWER, ACCESSORIES, HANGER, AND SUPPORT. REFER TO SCHEDULE.

3 EXTEND NEW TOILET EXHAUST DUCTWORK FROM NEW TOILET EXHAUST FAN TO EXISTING LOUVERS. MODIFY EXISTING LOUVER OPENING AS REQUIRED. MAINTAIN MINIMUM OF 15FT SEPARATION FROM ANY EXISTING AND NEW OUTDOOR AIR INTAKE.

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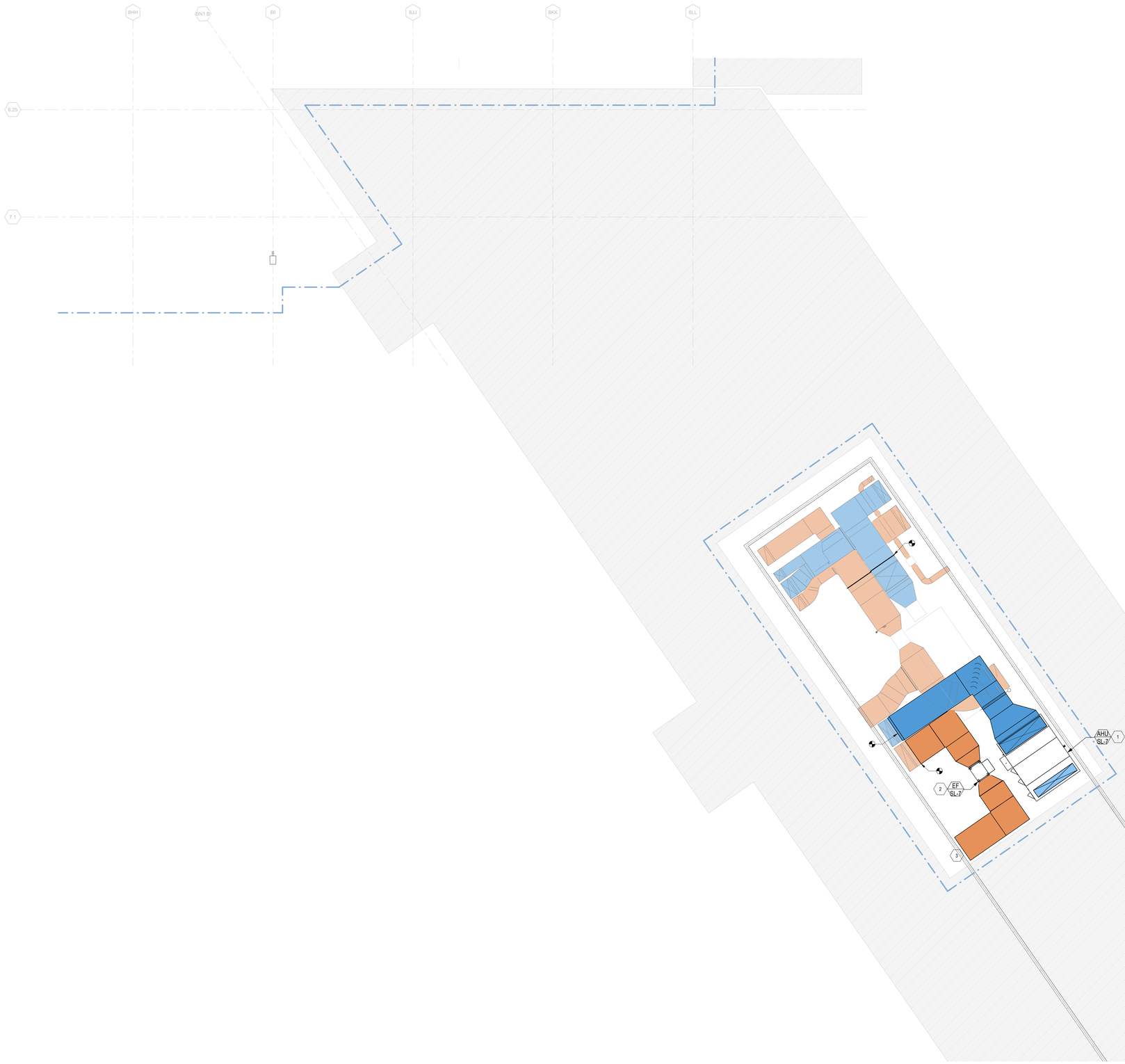

1A MECHANICAL HVAC PLAN PENTHOUSE - AREA 3H

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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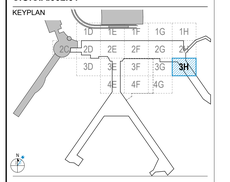

MECHANICAL HVAC PLAN PENTHOUSE - AREA 3H

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER VOLUME: **2**

M2.1.05.3H

3/19/2023 8:39:21 PM

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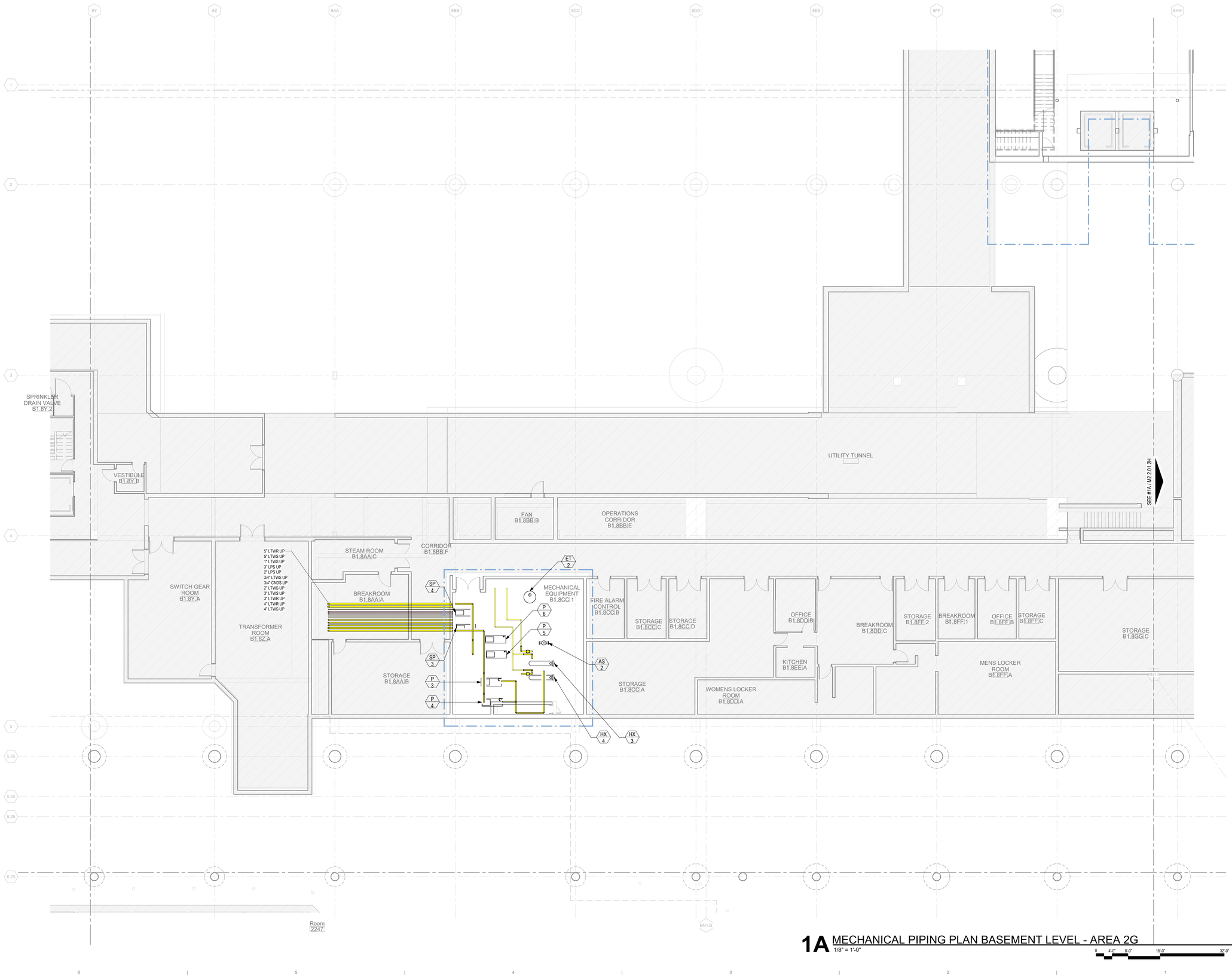

1A MECHANICAL PIPING PLAN BASEMENT LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:07:18 PM

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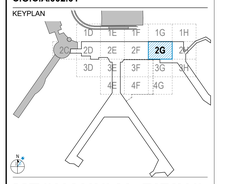
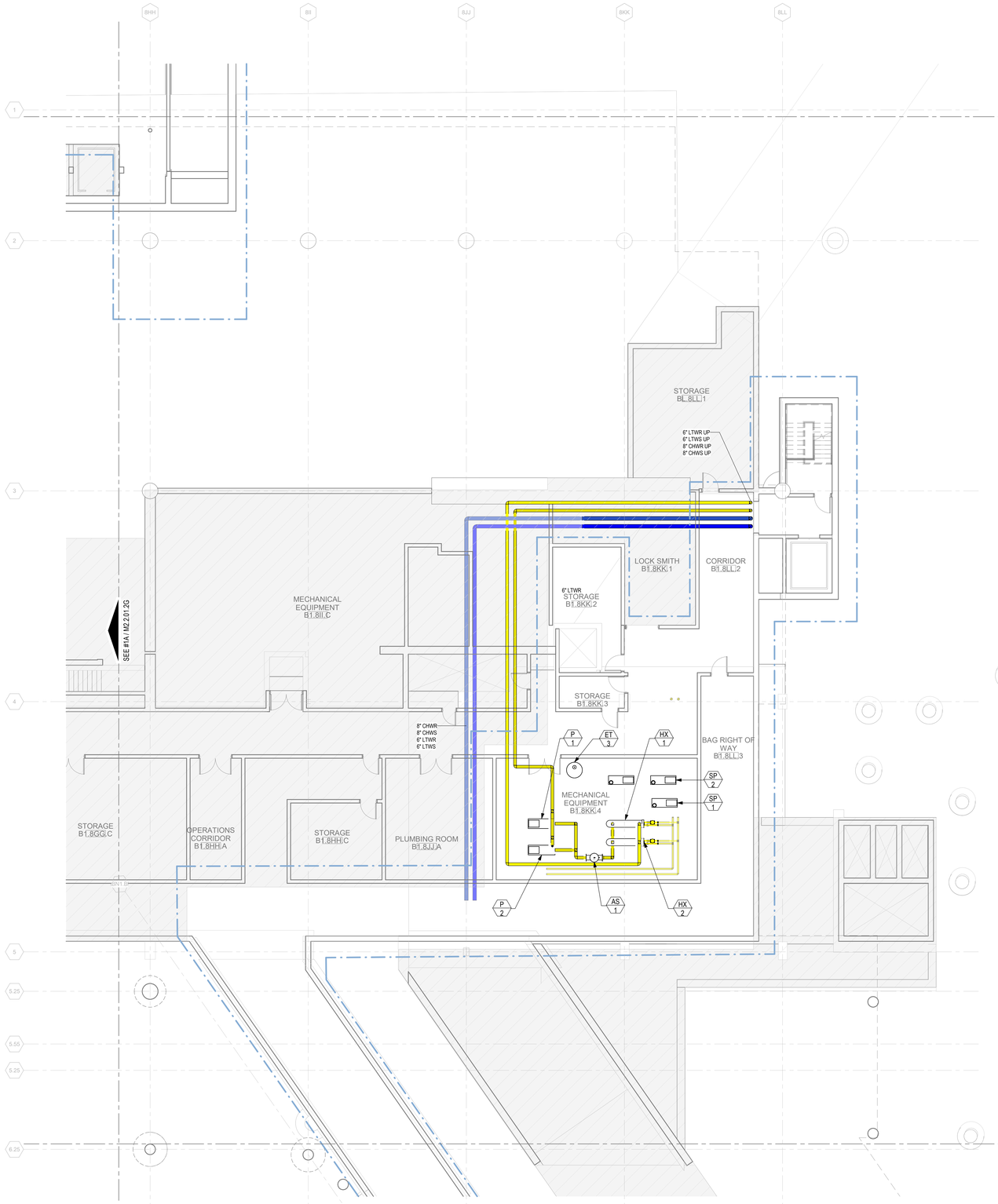


MECHANICAL PIPING PLAN BASEMENT LEVEL - AREA 2G

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
VOLUME: **2**

M2.2.01.2G



1A MECHANICAL PIPING PLAN BASEMENT LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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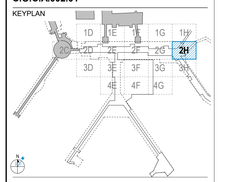

MECHANICAL PIPING PLAN BASEMENT LEVEL - AREA 2H

DRAWN BY: **ARC** CHECKED BY: **WB**

SHEET NUMBER **M2.2.01.2H** VOLUME: **2**

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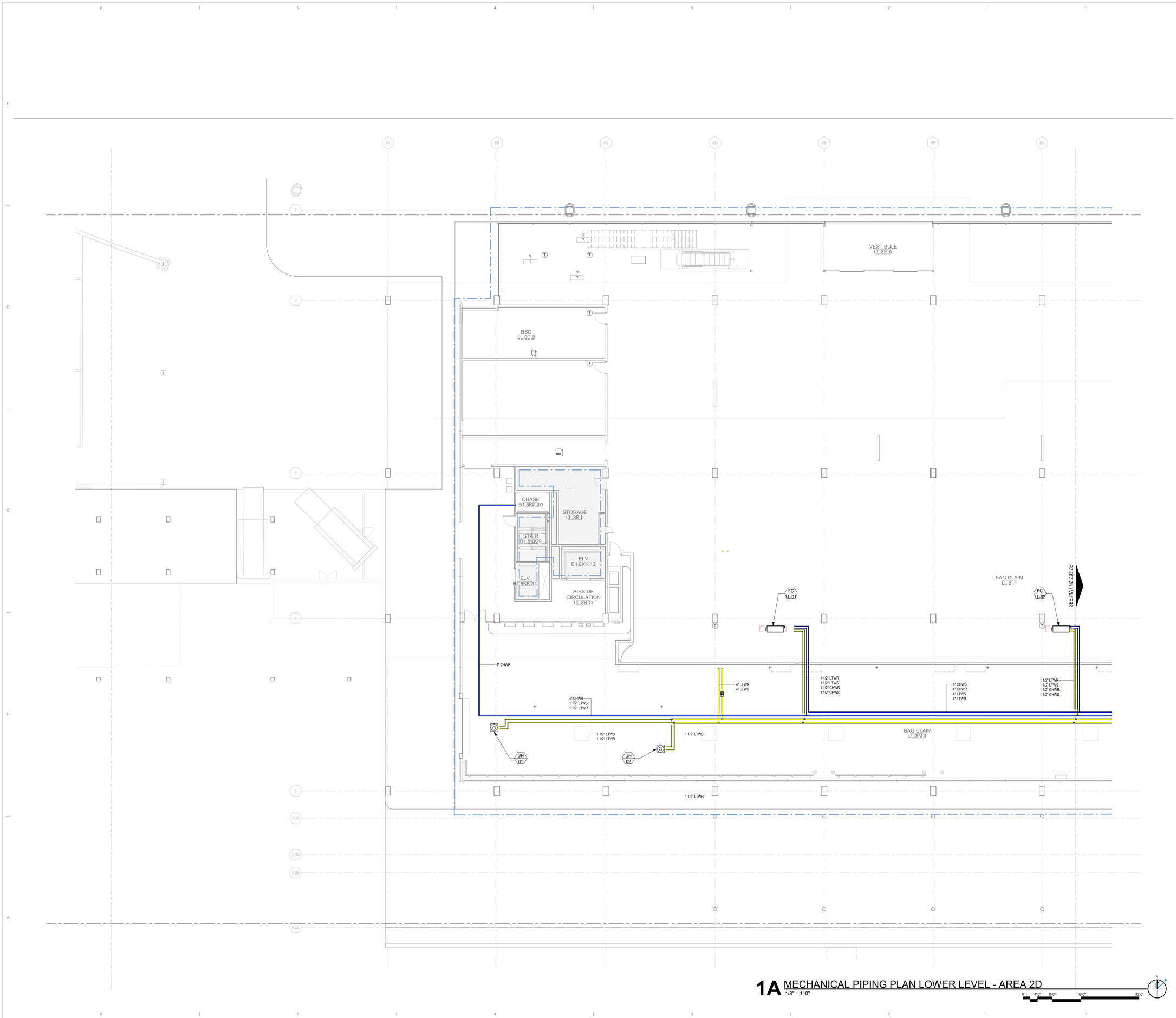

1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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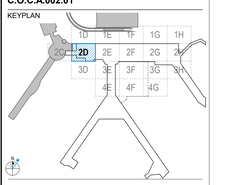
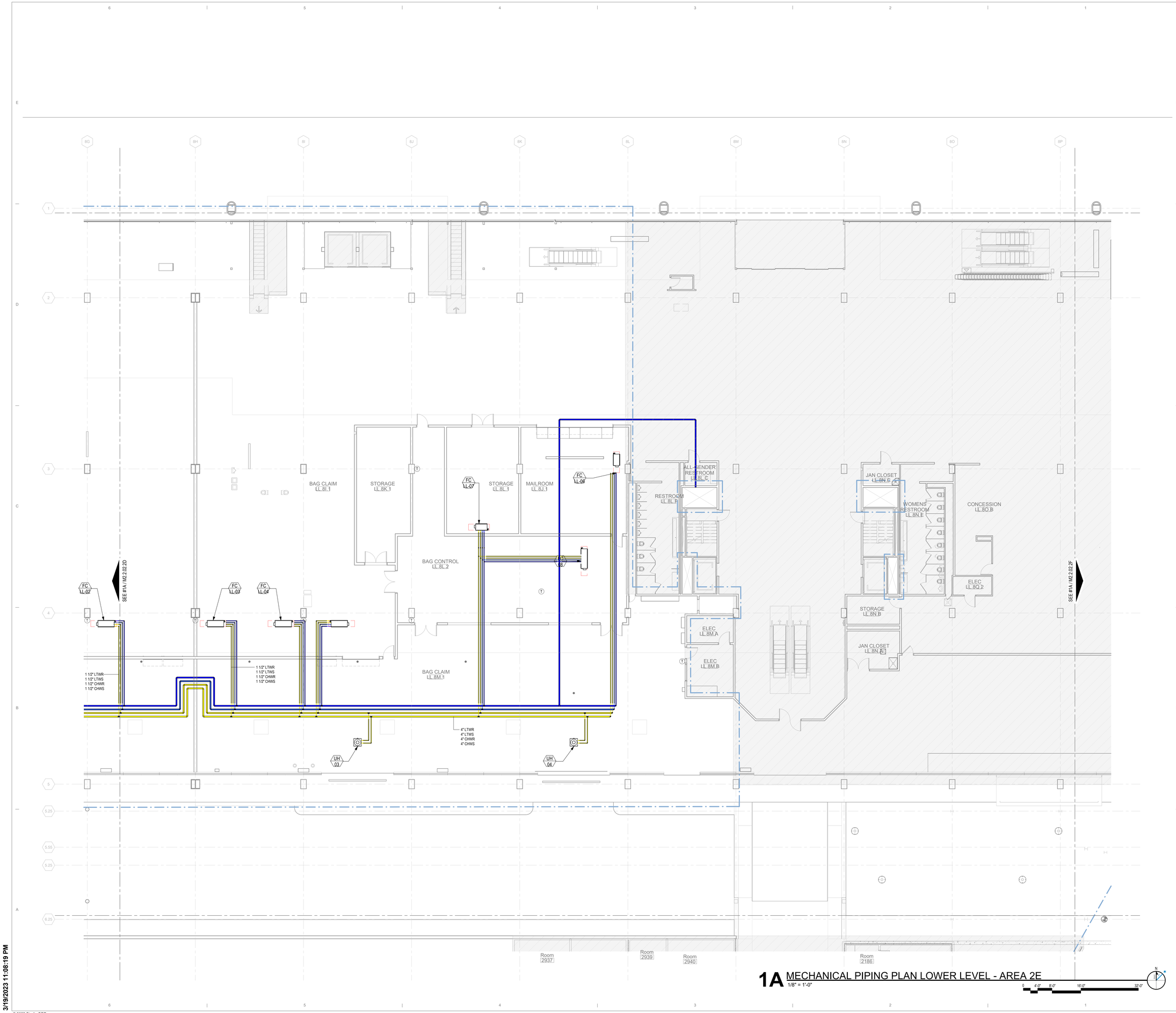


MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2D

DRAWN BY: **ARC** CHECKED BY: **WB**

SHEET NUMBER
M2.2.02.2D

VOLUME: **2**



1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:08:19 PM

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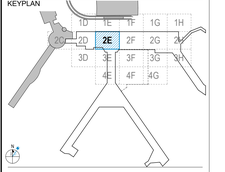
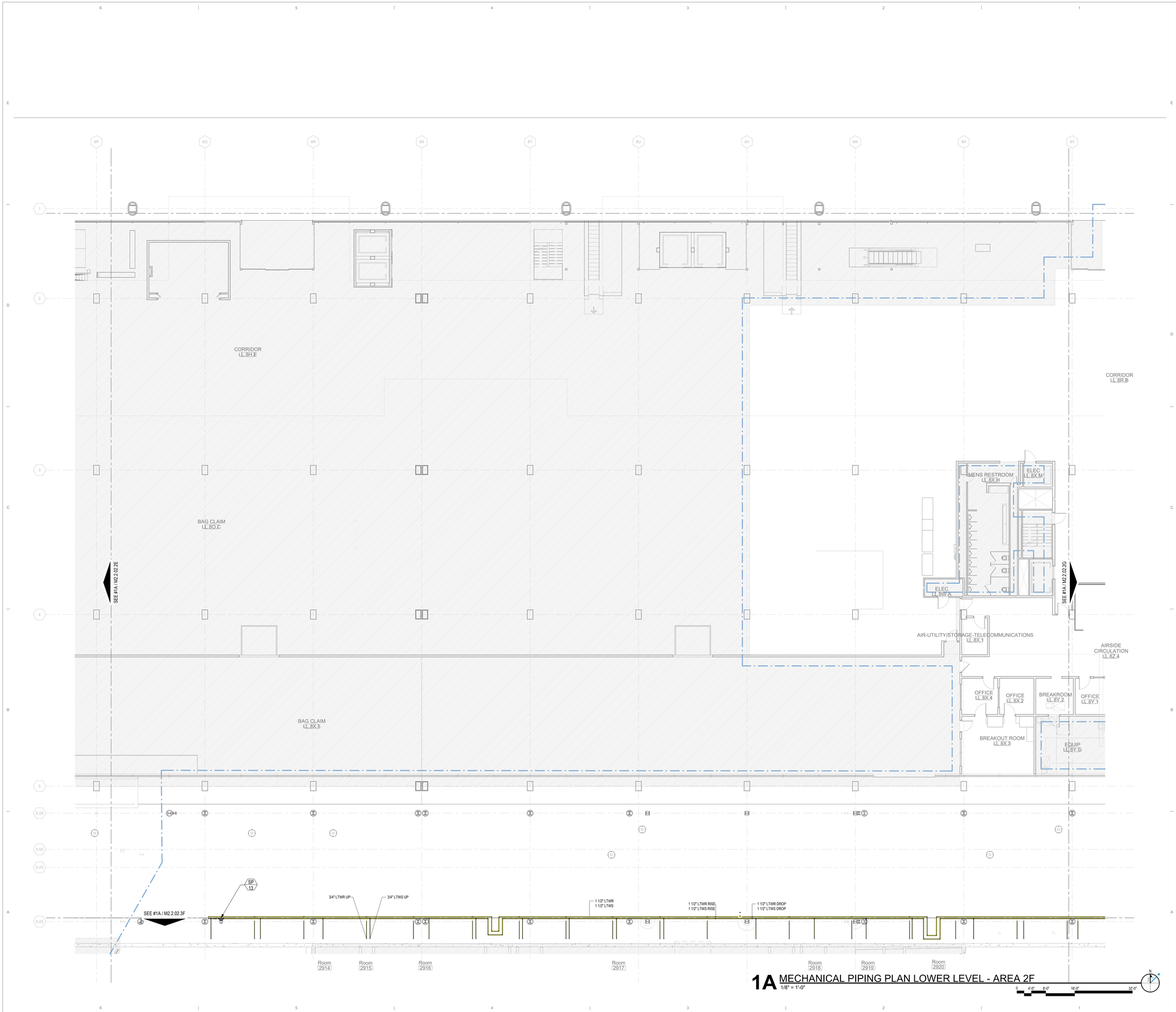


MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2E

DRAWN BY: **ARC**
CHECKED BY: **WB**

SHEET NUMBER
VOLUME: **2**

M2.2.02.2E



1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:08:38 PM

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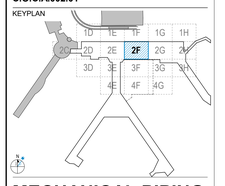
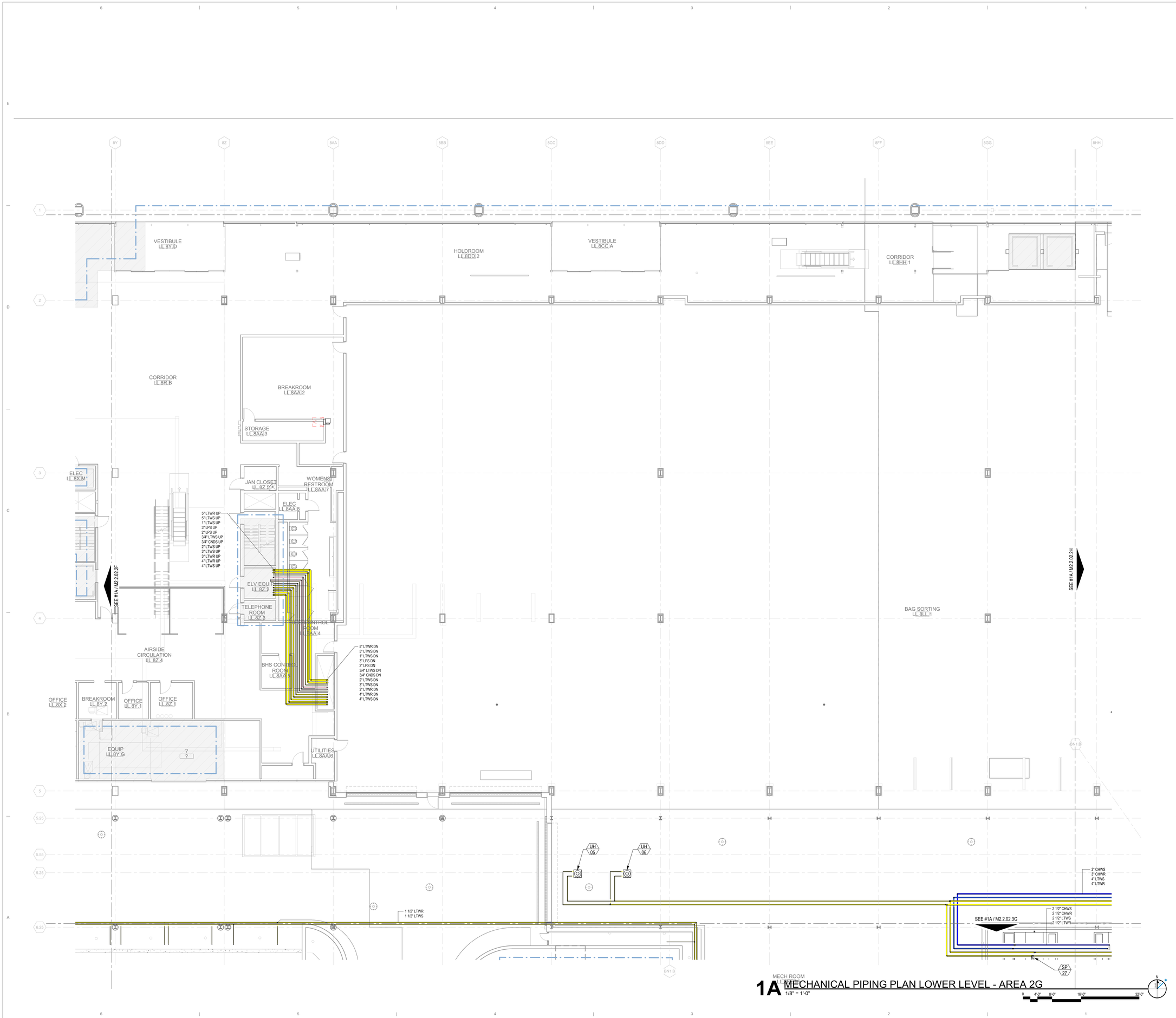


MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2F

DRAWN BY: **ARC** CHECKED BY: **WB**
SHEET NUMBER VOLUME: **2**

M2.2.02.2F



MECH ROOM

1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2G

1/8" = 1'-0"

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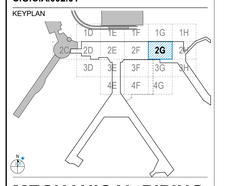
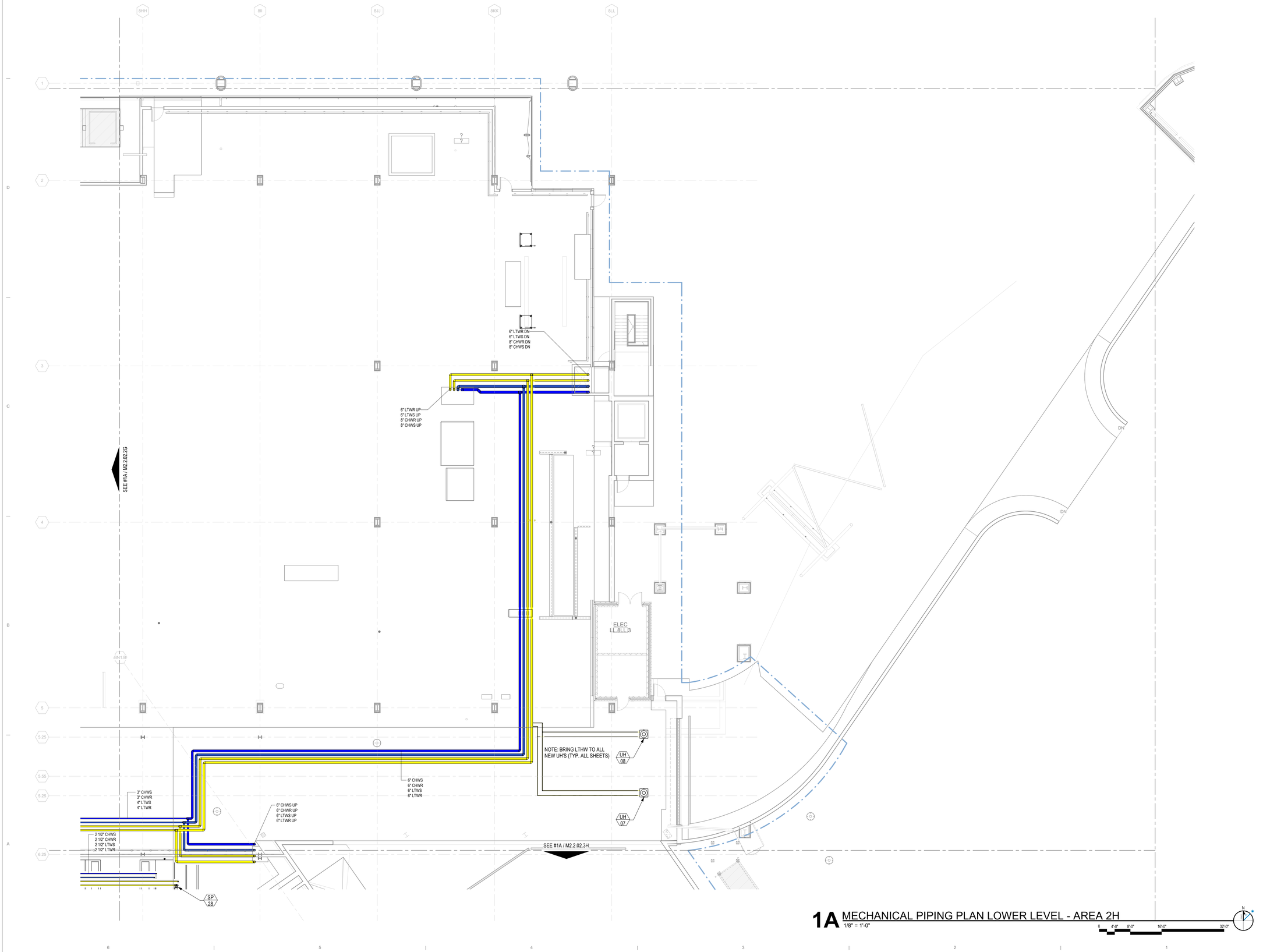


MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2G

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
VOLUME: **2**

M2.2.02.2G



1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:09:17 PM

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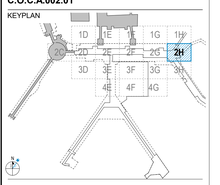
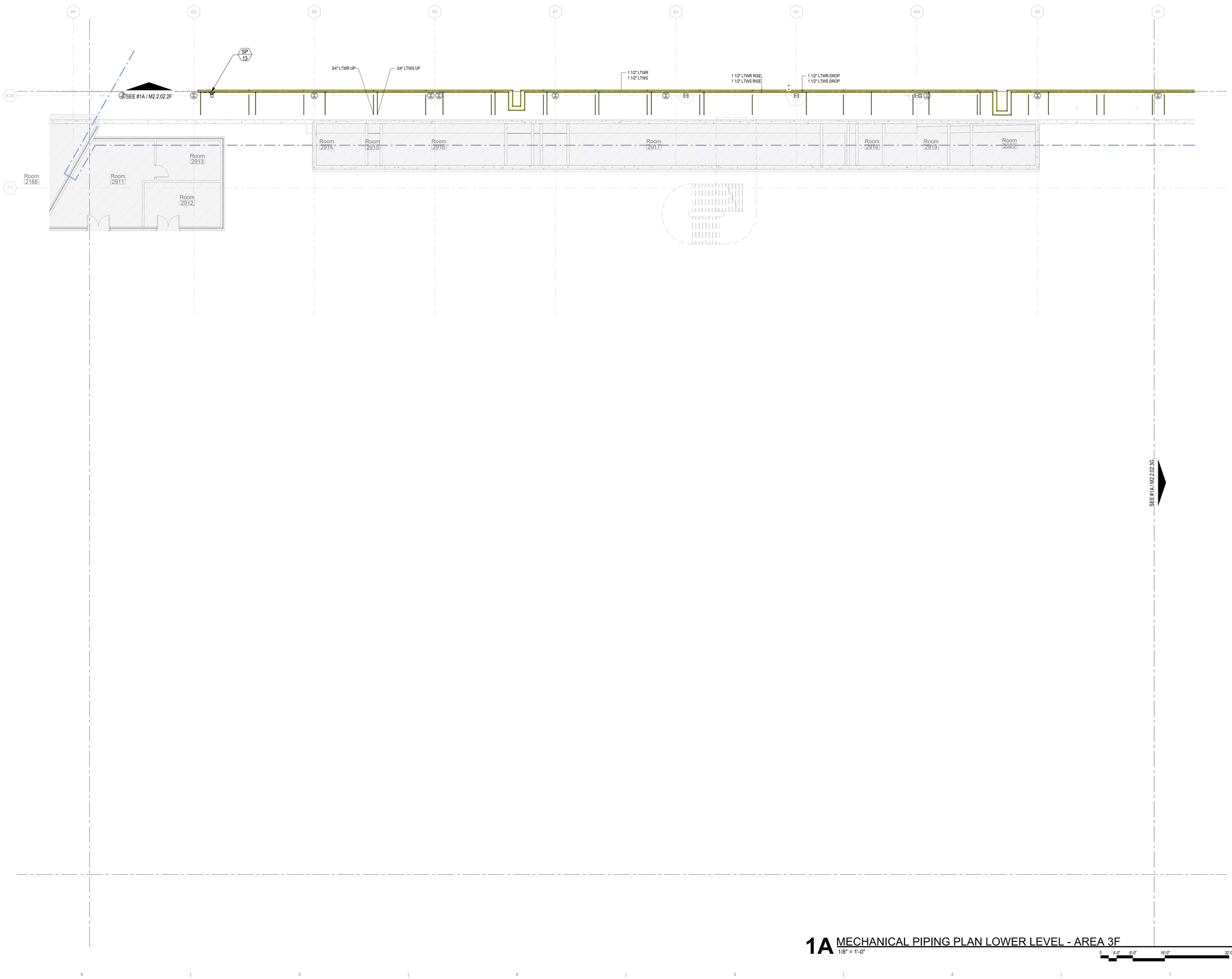


MECHANICAL PIPING PLAN LOWER LEVEL - AREA 2H

DRAWN BY: **ARC**
CHECKED BY: **WB**

SHEET NUMBER
M2.2.02.2H

VOLUME: **2**



1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3F
1/8" = 1'-0"

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3/19/2023 11:09:34 PM

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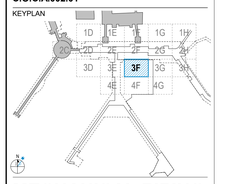

MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3F

DRAWN BY: **ARC**
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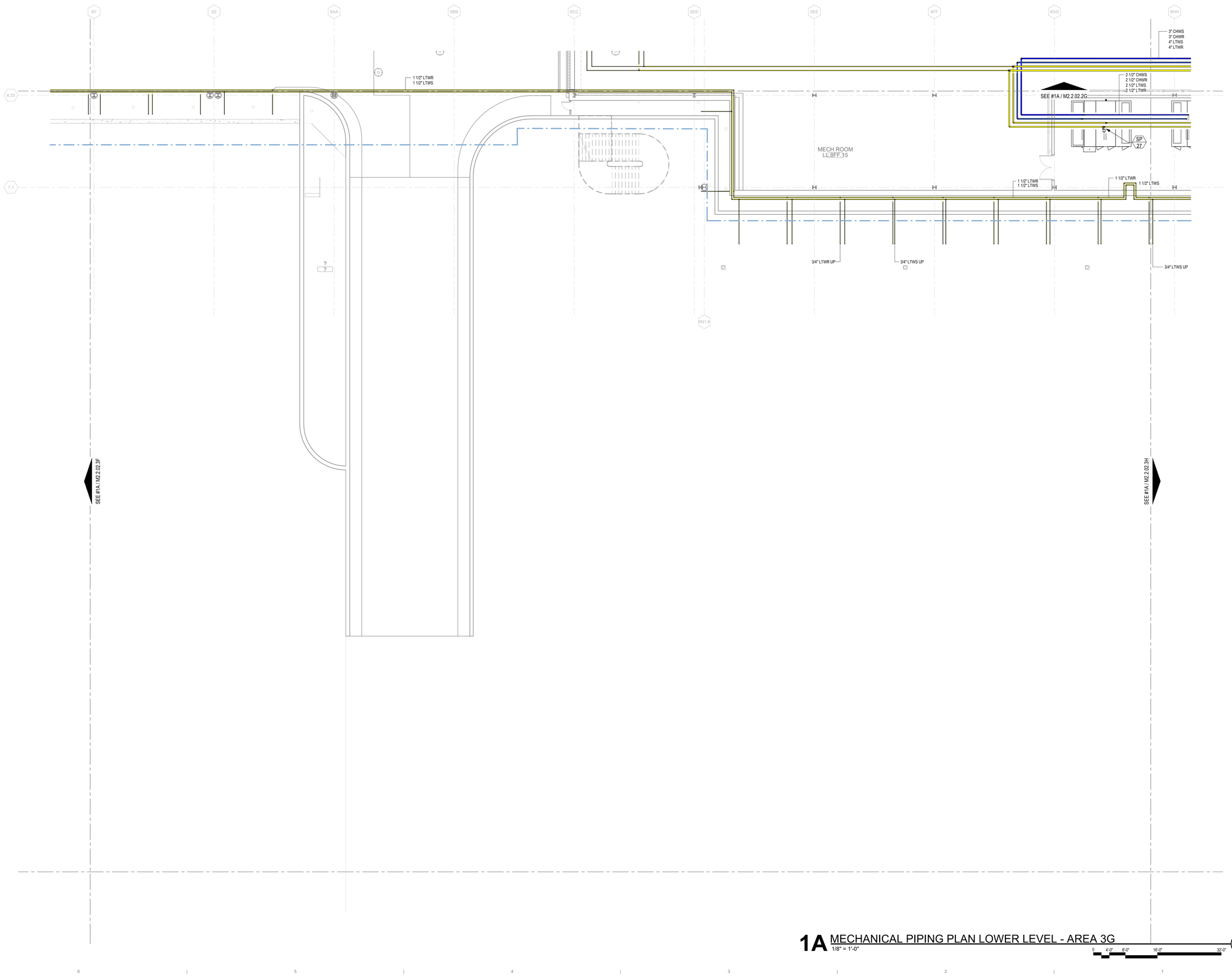
M2.2.02.3F

VOLUME: **2**



1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:09:50 PM

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CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
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ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

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REVISION
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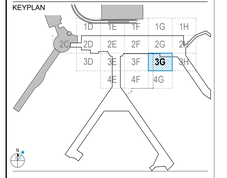
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

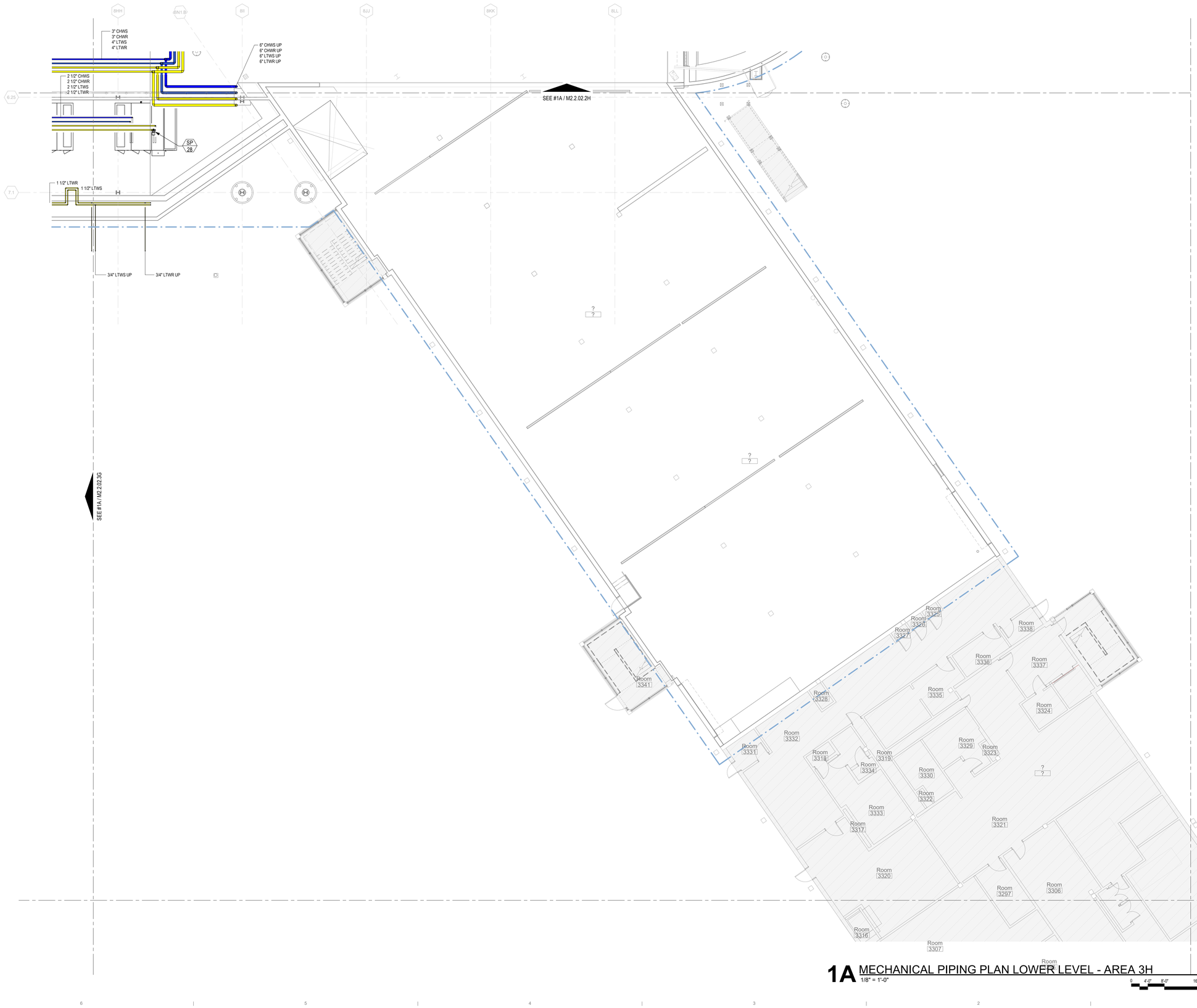


MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3G

DRAWN BY: **ARC** CHECKED BY: **WB**

SHEET NUMBER VOLUME: **2**

M2.2.02.3G



1A MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:10:08 PM

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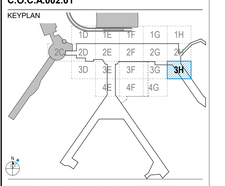
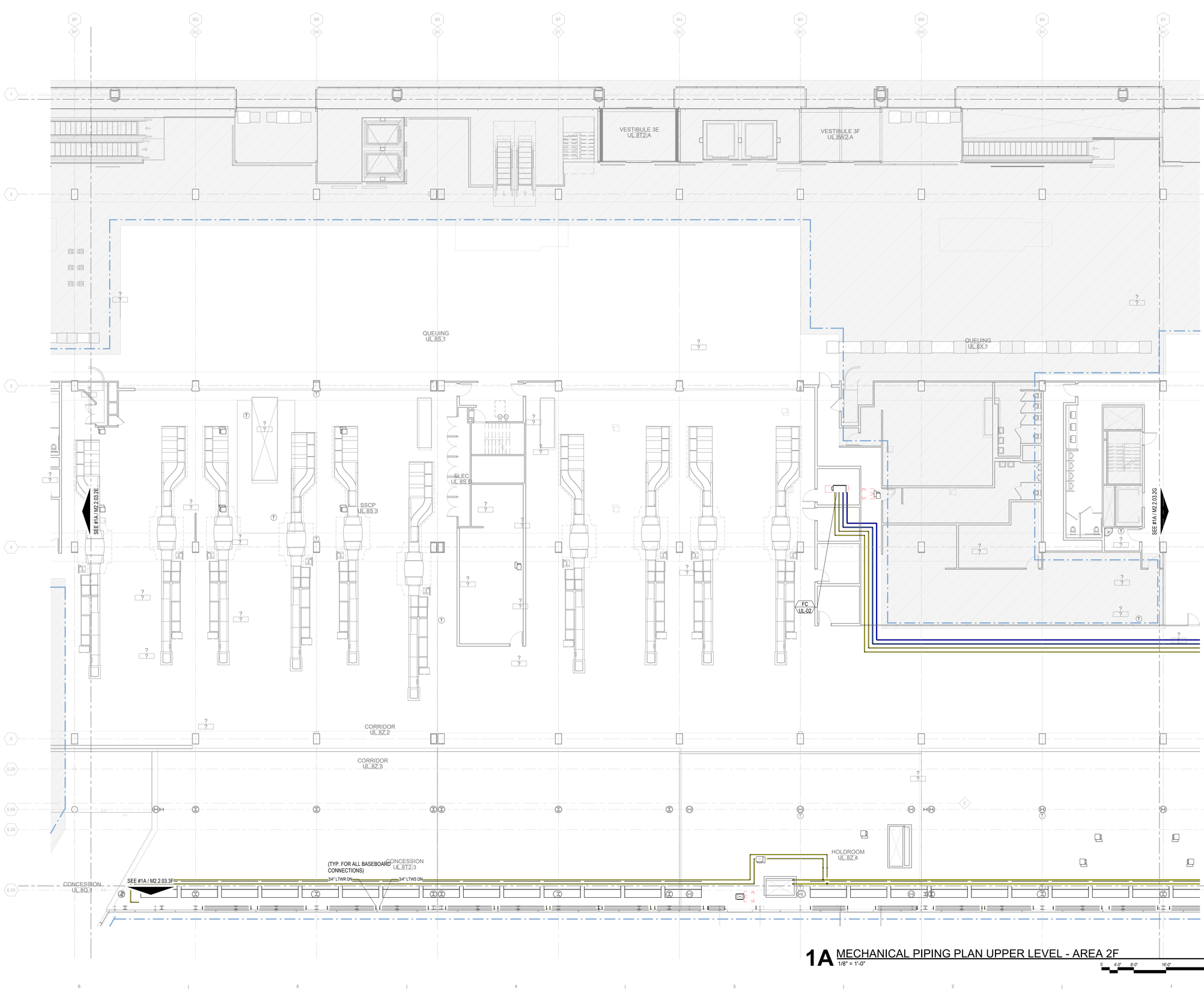


MECHANICAL PIPING PLAN LOWER LEVEL - AREA 3H

DRAWN BY: **ARC** CHECKED BY: **WB**

SHEET NUMBER **M2.2.02.3H** VOLUME: **2**



1A MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:10:31 PM

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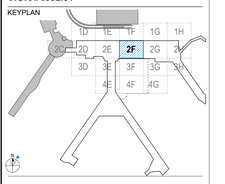
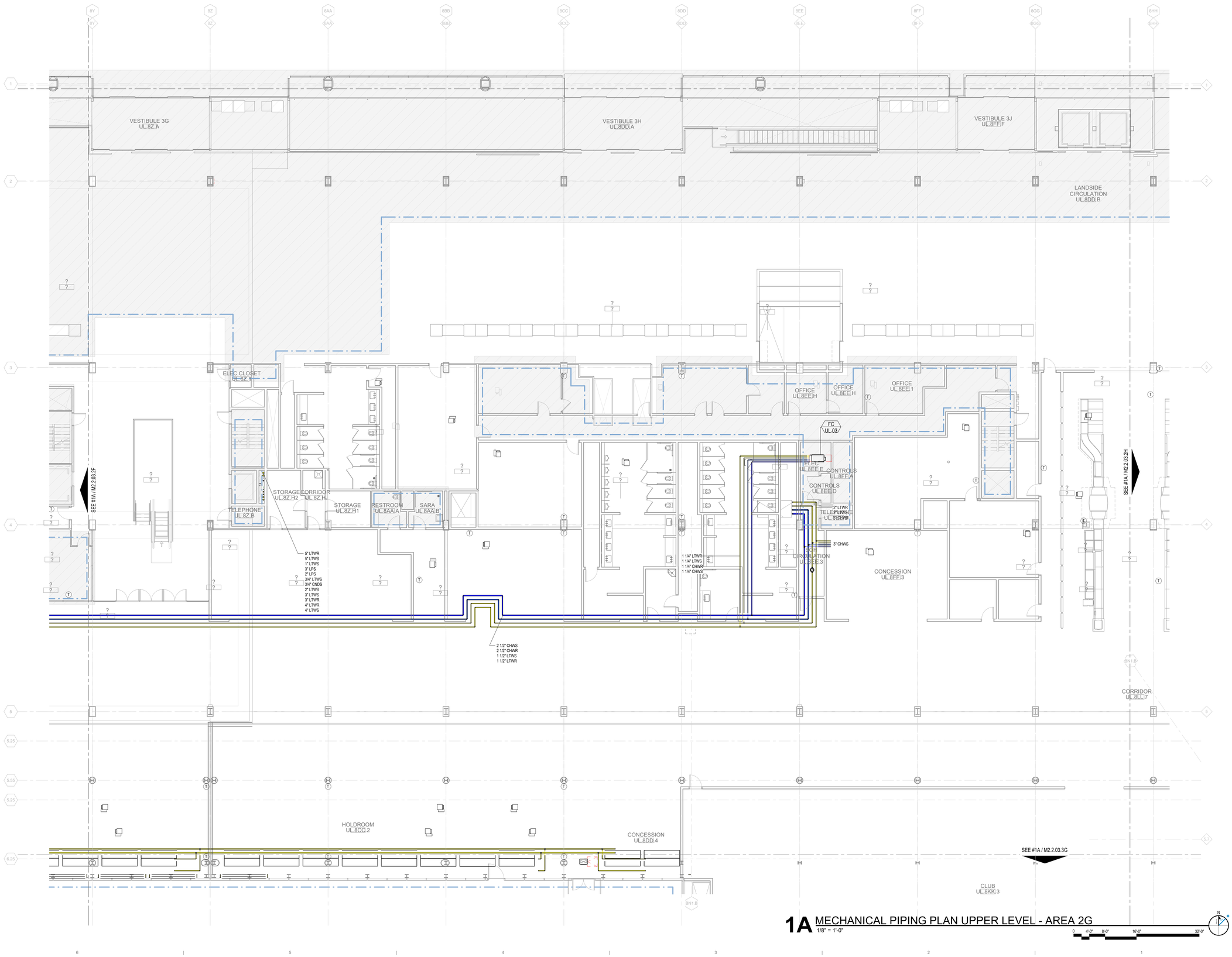


MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2F

DRAWN BY: **ARC** CHECKED BY: **WB**
SHEET NUMBER VOLUME: **2**

M2.2.03.2F



1A MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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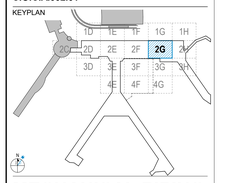
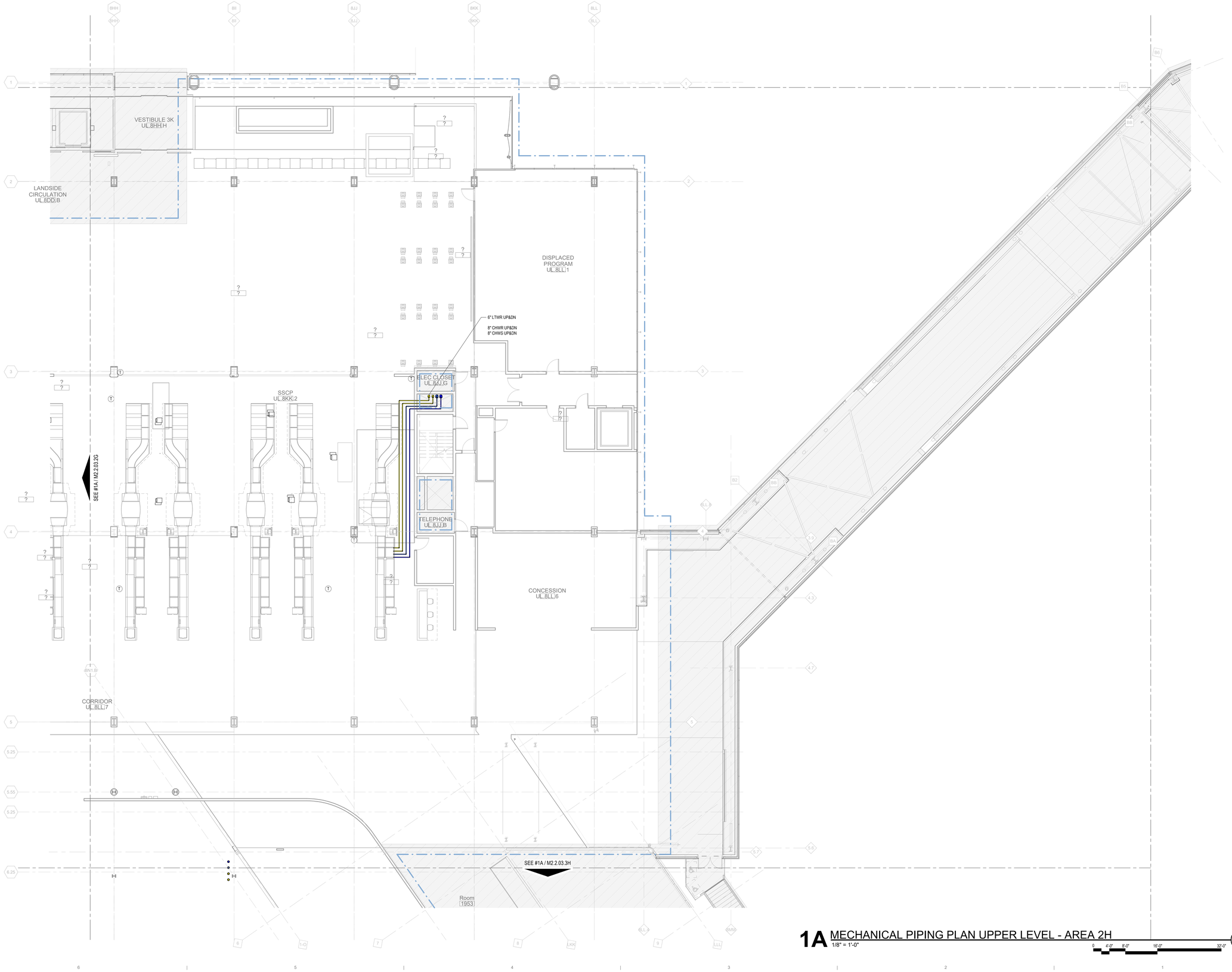


MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2G

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
VOLUME: **2**

M2.2.03.2G



1A MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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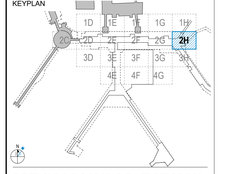
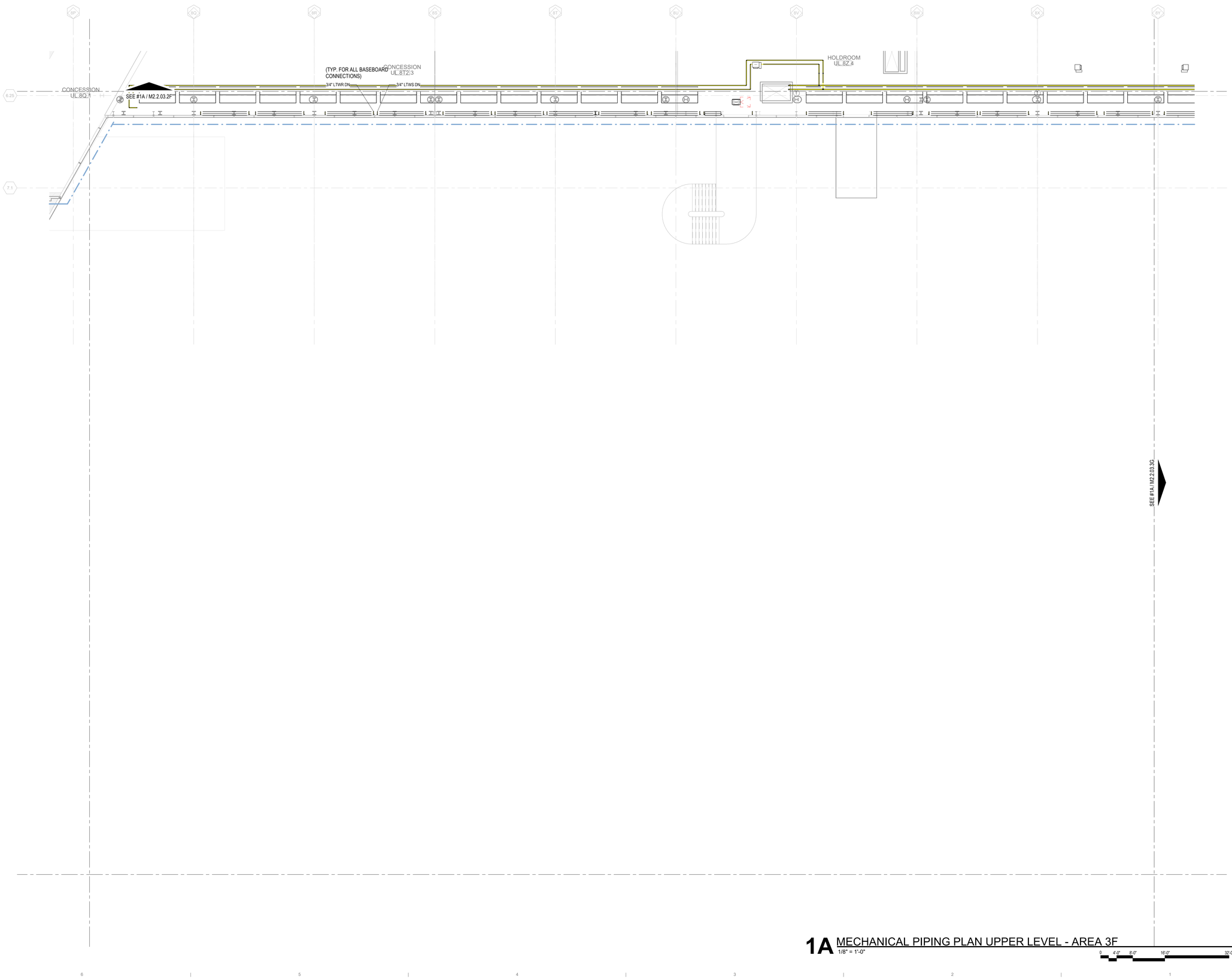


MECHANICAL PIPING PLAN UPPER LEVEL - AREA 2H

DRAWN BY: **ARC** CHECKED BY: **WB**
SHEET NUMBER VOLUME: **2**

M2.2.03.2H



1A MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:11:51 PM

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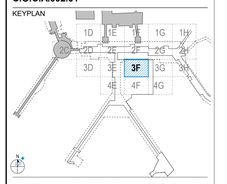
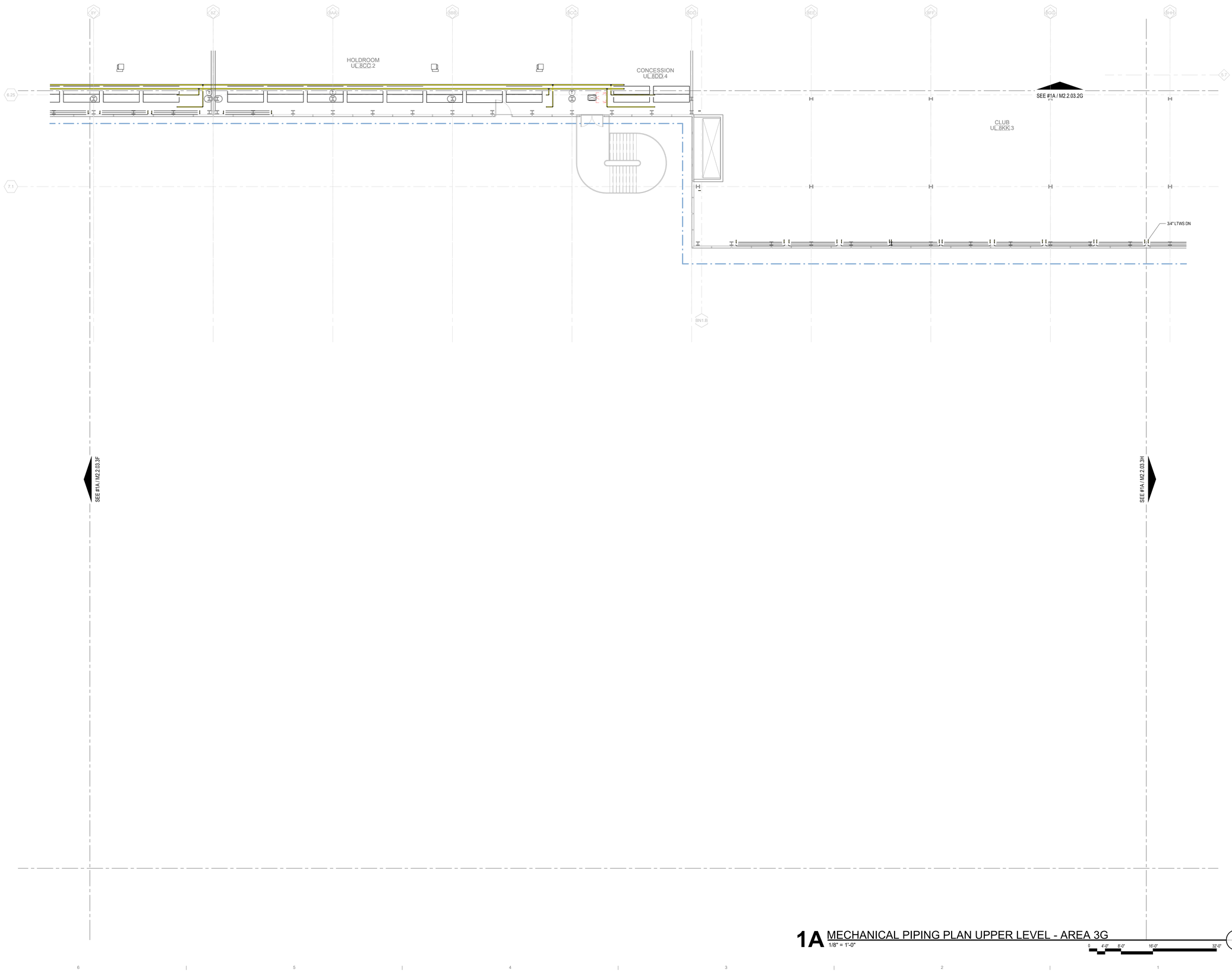


MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3F

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
VOLUME: **2**

M2.2.03.3F



1A MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:12:10 PM

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PHASE: **DD**
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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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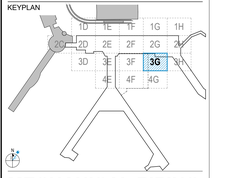
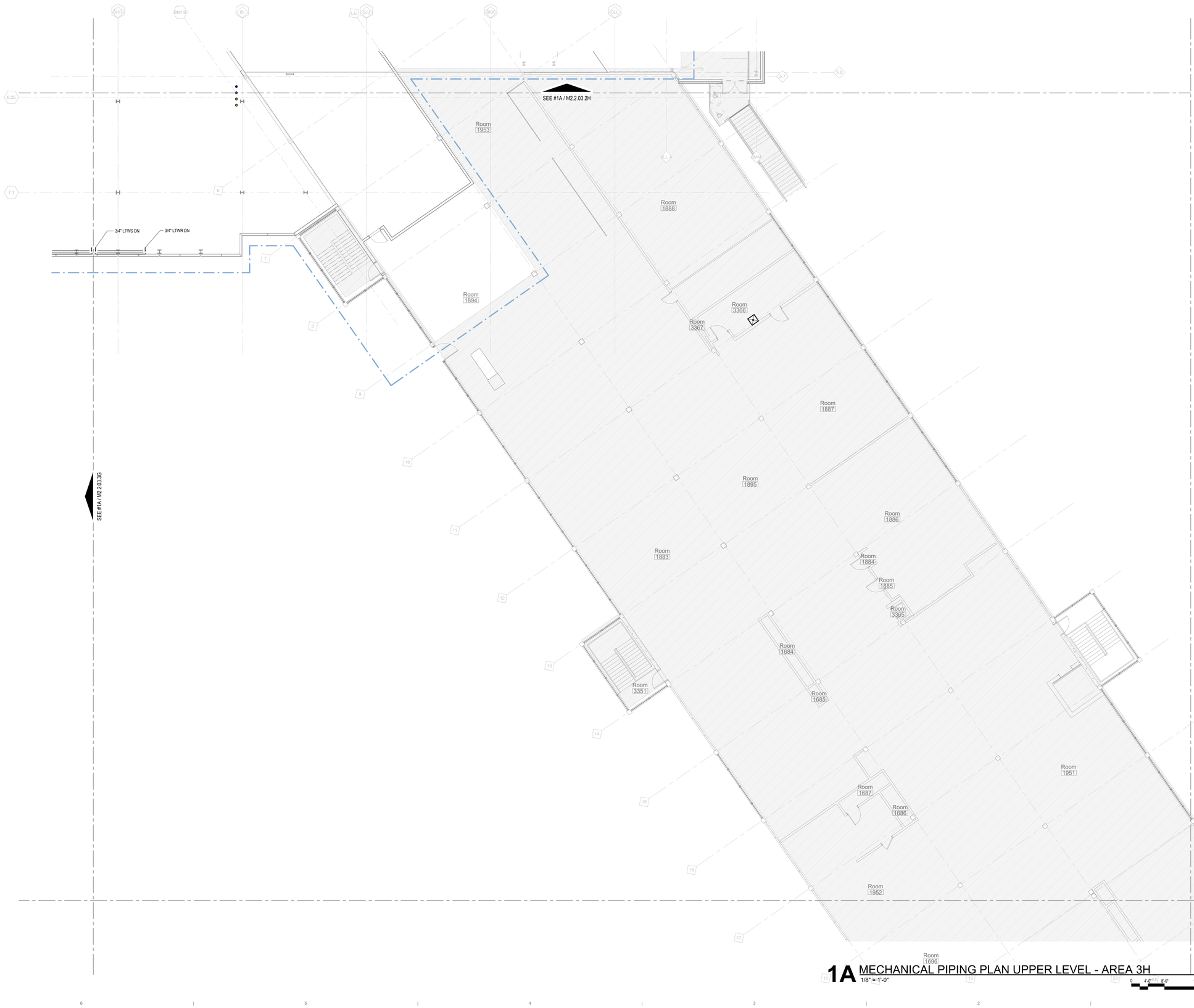


MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3G

DRAWN BY: **ARC** CHECKED BY: **WB**
SHEET NUMBER VOLUME: **2**

M2.2.03.3G



1A MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3H

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:12:29 PM

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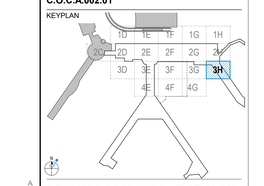
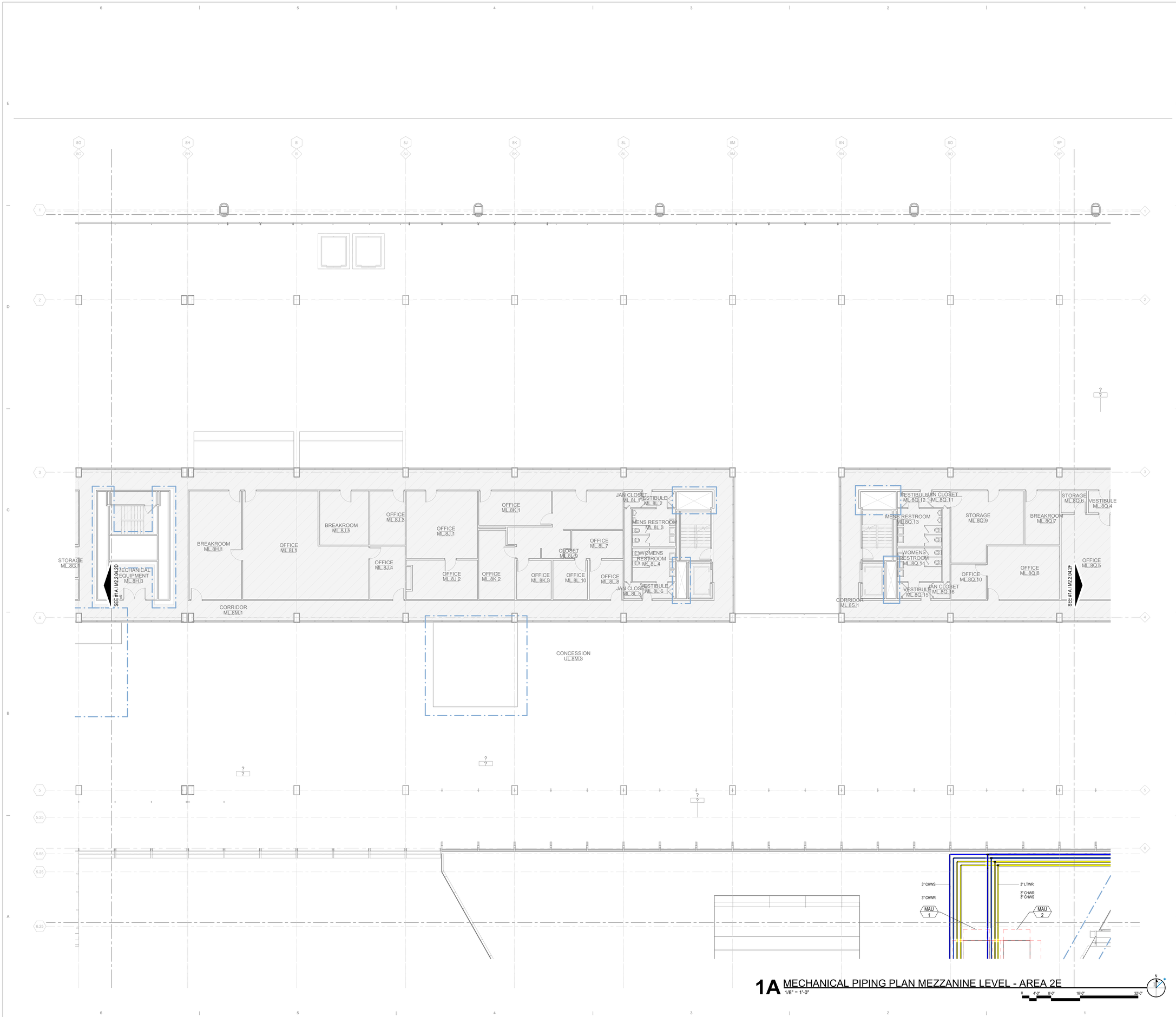
KEYPLAN



MECHANICAL PIPING PLAN UPPER LEVEL - AREA 3H

DRAWN BY: **ARC** CHECKED BY: **WB**

SHEET NUMBER **M2.2.03.3H** VOLUME: **2**



1A MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2E
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:12:48 PM

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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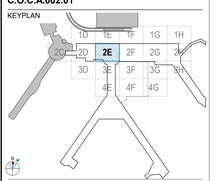
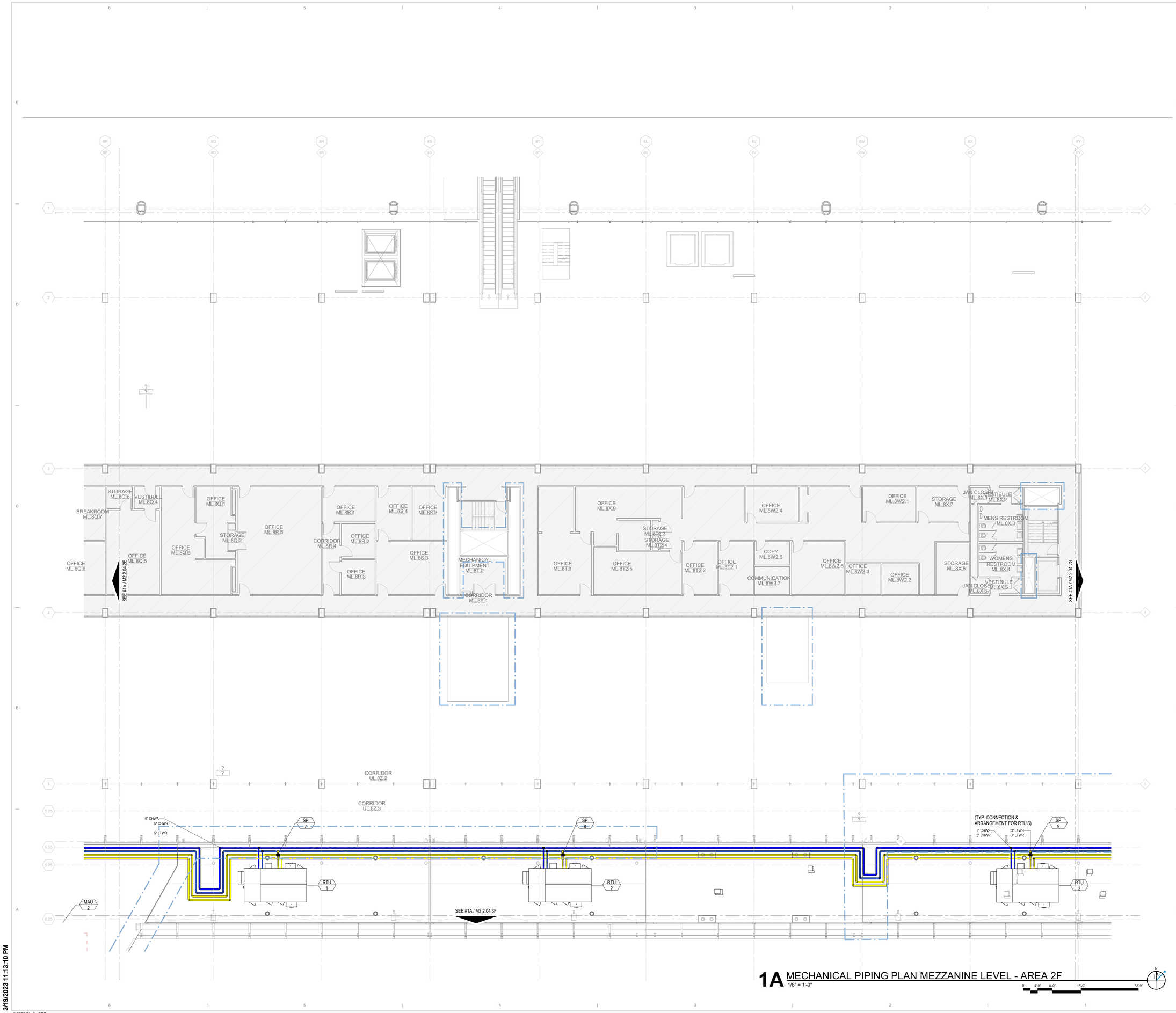
KEYPLAN



MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2E

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
VOLUME: **2**

M2.2.04.2E



1A MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

3/19/2023 11:13:10 PM

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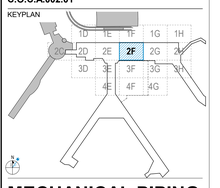
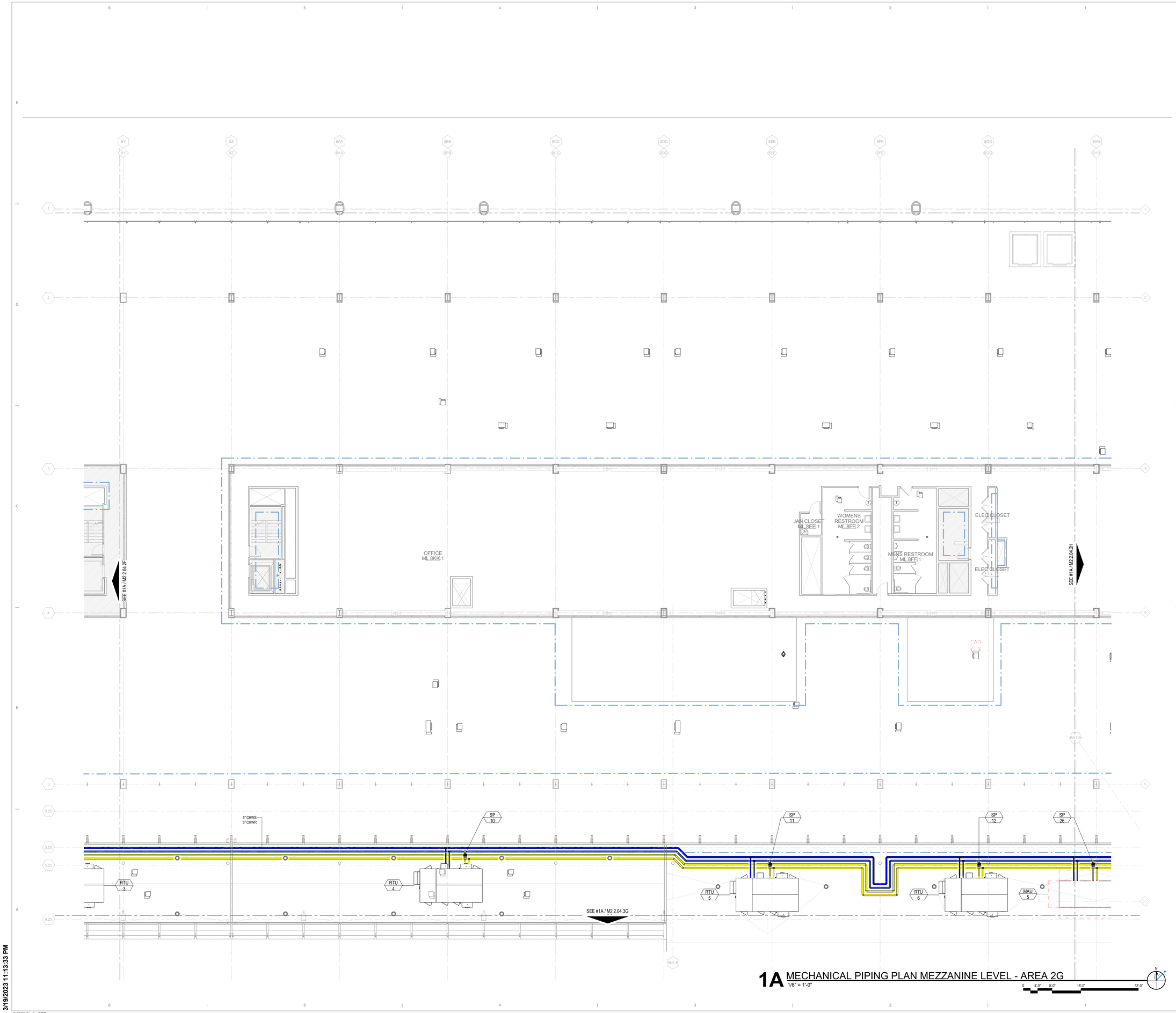


MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2F

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
M2.2.04.2F
VOLUME: **2**



1A MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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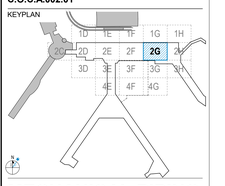

MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2G

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CHECKED BY: **WB**
SHEET NUMBER
M2.2.04.2G
VOLUME: **2**

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DISPLACED PROGRAM UL 8LL1

5" LTWR UP&DN

SEE #1A / M2.2.04.2G

SP 26

MAU 5

SEE #1A / M2.2.04.3H

1A MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

N

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PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

KEYPLAN

MECHANICAL PIPING PLAN MEZZANINE LEVEL - AREA 2H

DRAWN BY: **ARC** CHECKED BY: **WB**
SHEET NUMBER VOLUME: **2**

M2.2.04.2H

3/19/2023 11:13:56 PM

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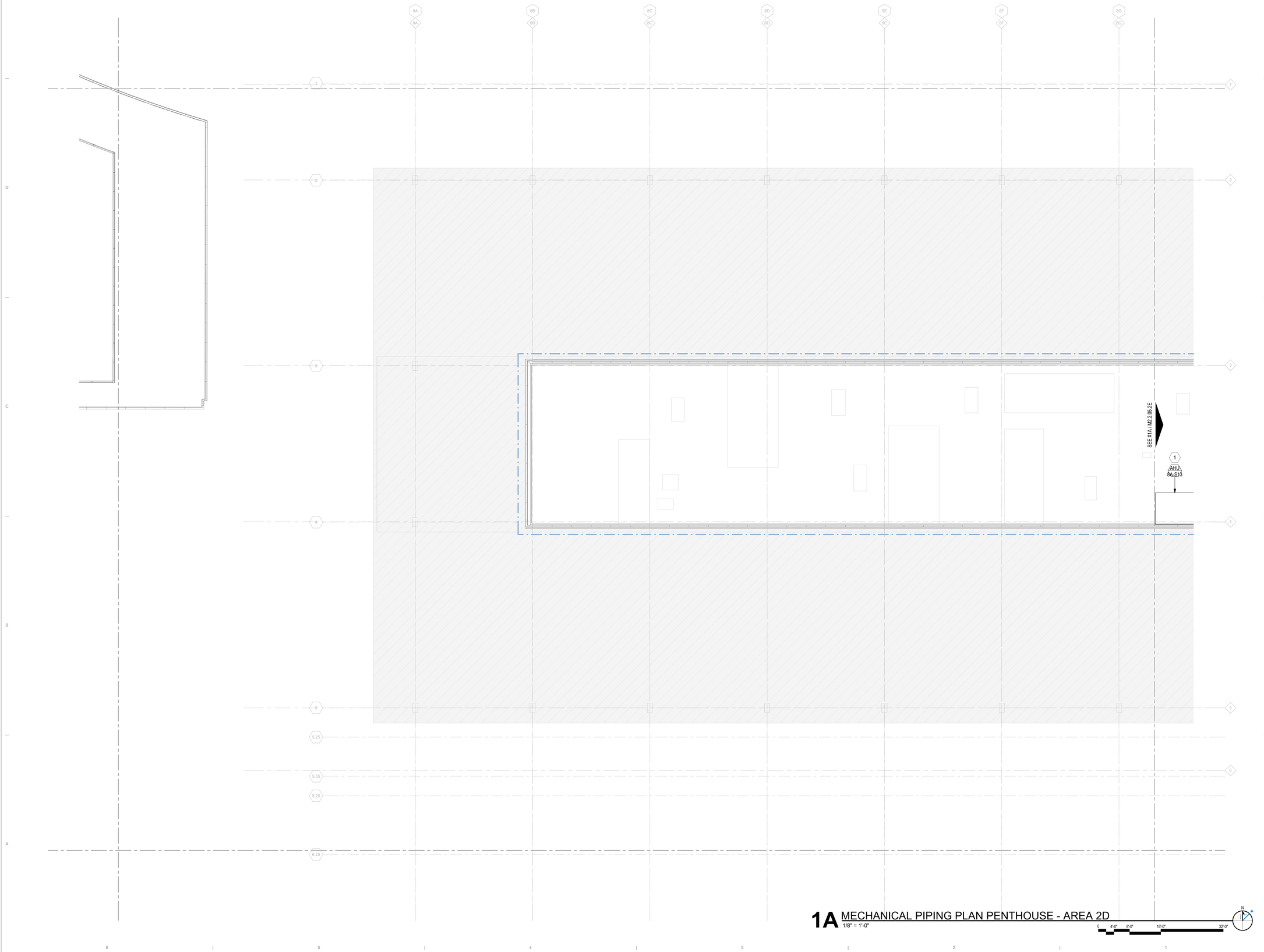
KEYNOTES:

1. UNIT IS REPLACING IN-KIND. RECONNECT TO EXISTING PIPE CONNECTIONS. REFER TO DWG MD1.2.05.



1A MECHANICAL PIPING PLAN PENTHOUSE - AREA 2D
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

NOTES

REVISION

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ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
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REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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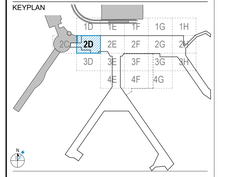
KEYPLAN



MECHANICAL PIPING PLAN PENTHOUSE - AREA 2D

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SHEET NUMBER
VOLUME: **2**

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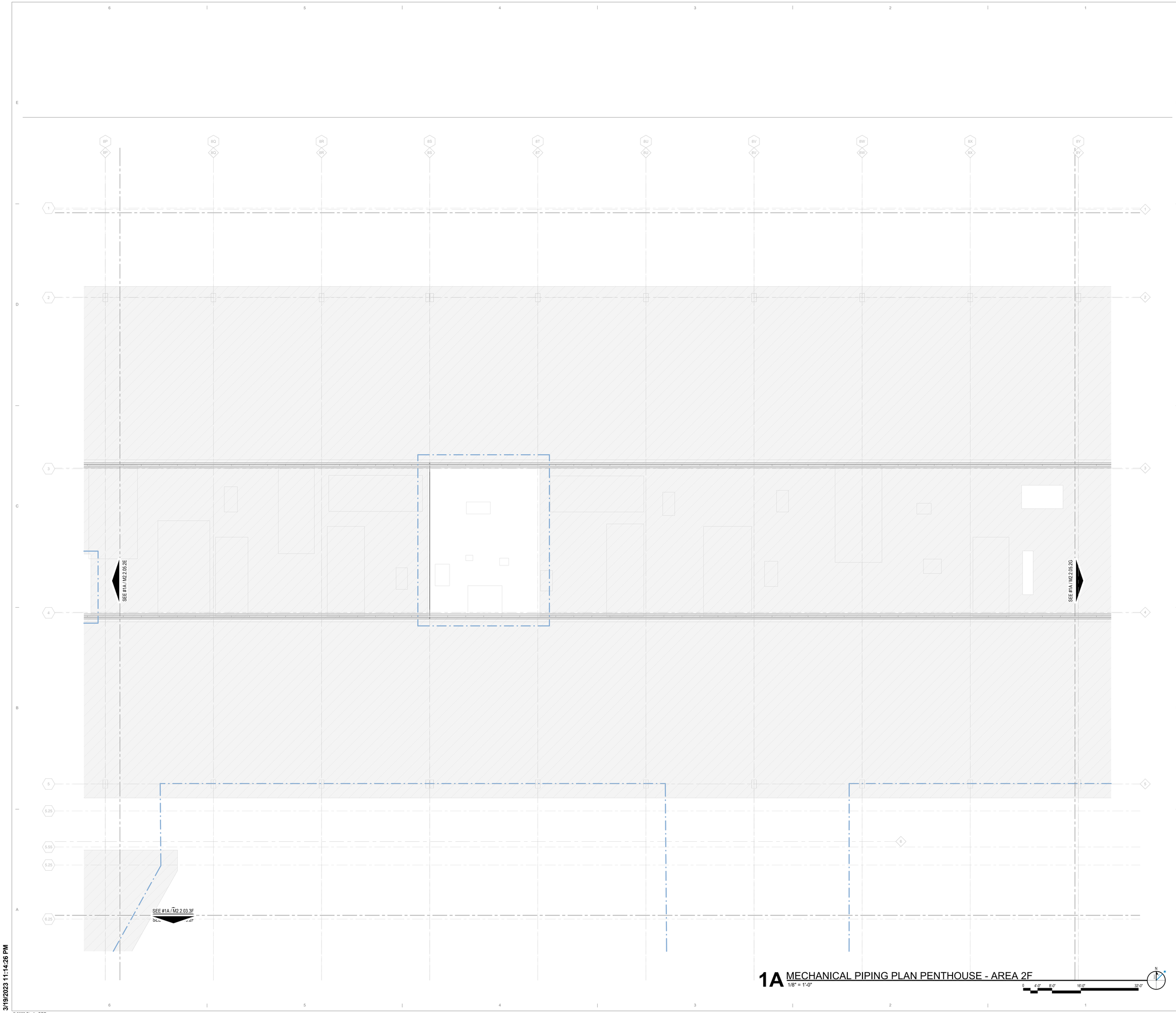

1A MECHANICAL PIPING PLAN PENTHOUSE - AREA 2F
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
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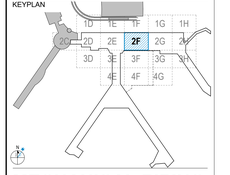
KEYPLAN



MECHANICAL PIPING PLAN PENTHOUSE - AREA 2F

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CHECKED BY: **WB**

SHEET NUMBER
M2.2.05.2F

VOLUME: **2**

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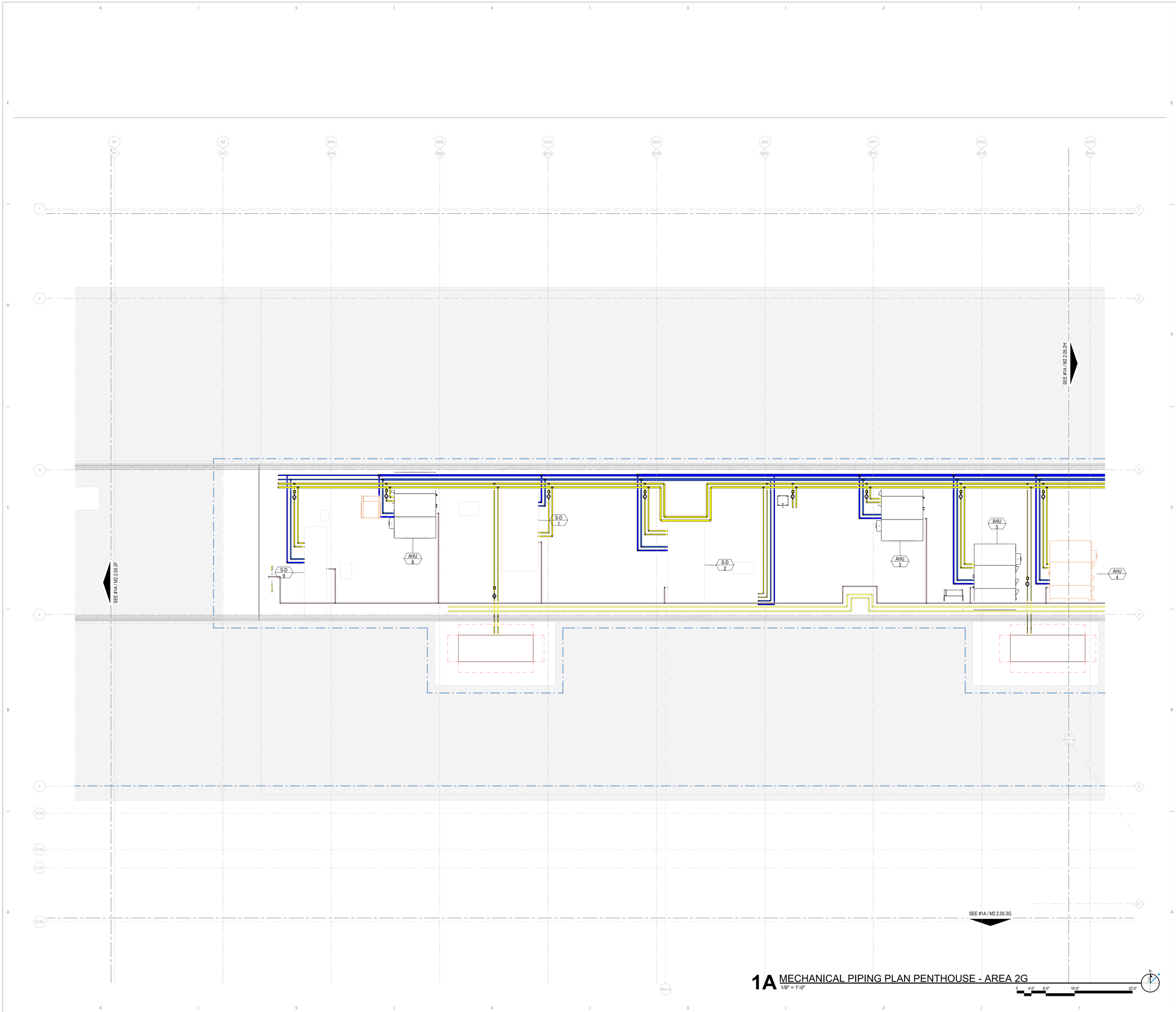

1A MECHANICAL PIPING PLAN PENTHOUSE - AREA 2G
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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PHASE: **DD**
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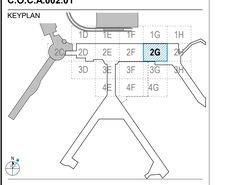
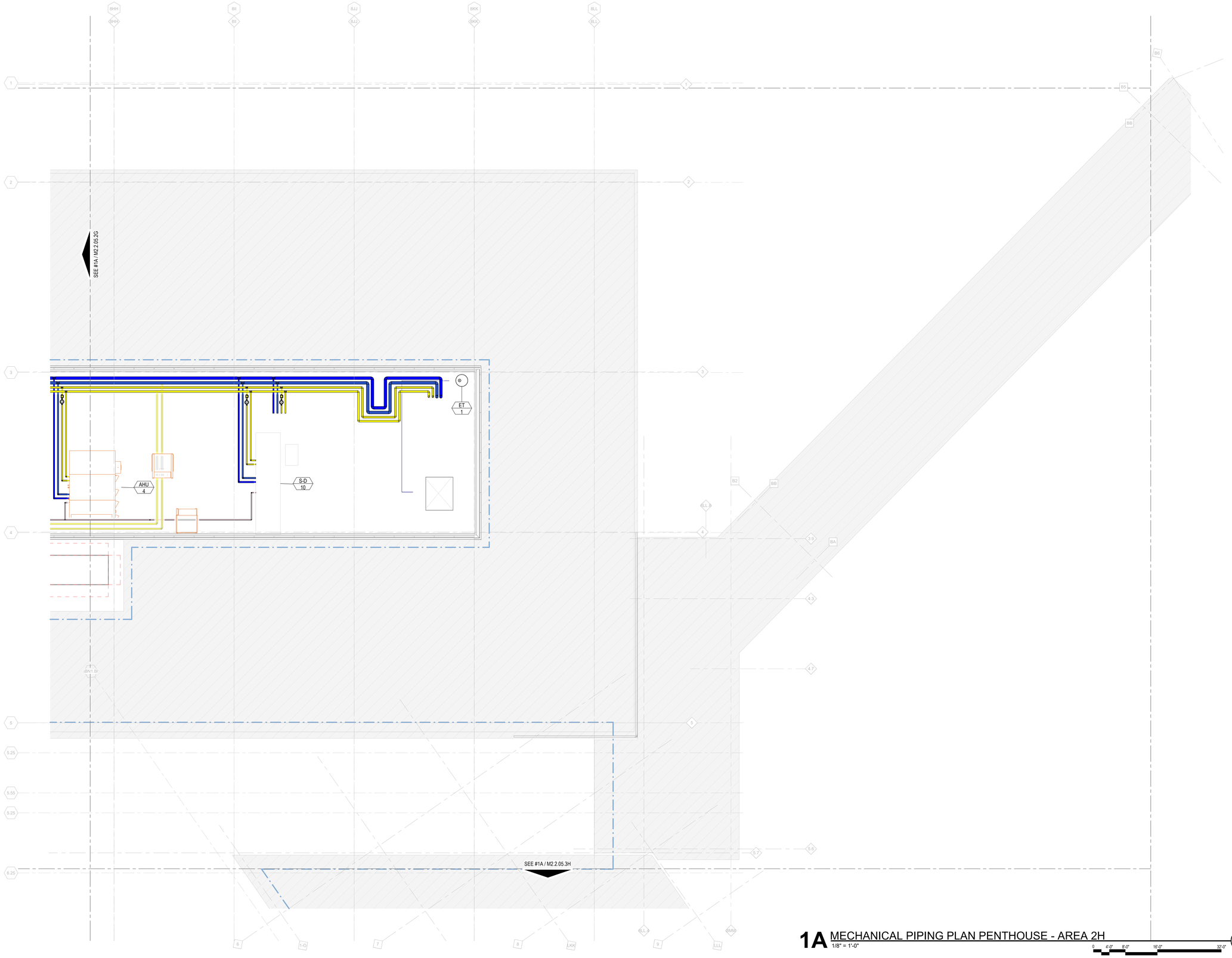
KEYPLAN



MECHANICAL PIPING PLAN PENTHOUSE - AREA 2G

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
VOLUME: **2**

M2.2.05.2G



1A MECHANICAL PIPING PLAN PENTHOUSE - AREA 2H
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0 4'-0" 8'-0" 16'-0" 32'-0"

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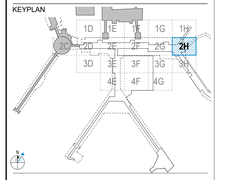
KEYPLAN



MECHANICAL PIPING PLAN PENTHOUSE - AREA 2H

DRAWN BY: **ARC**
CHECKED BY: **WB**
SHEET NUMBER
VOLUME: **2**

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KEYNOTES:

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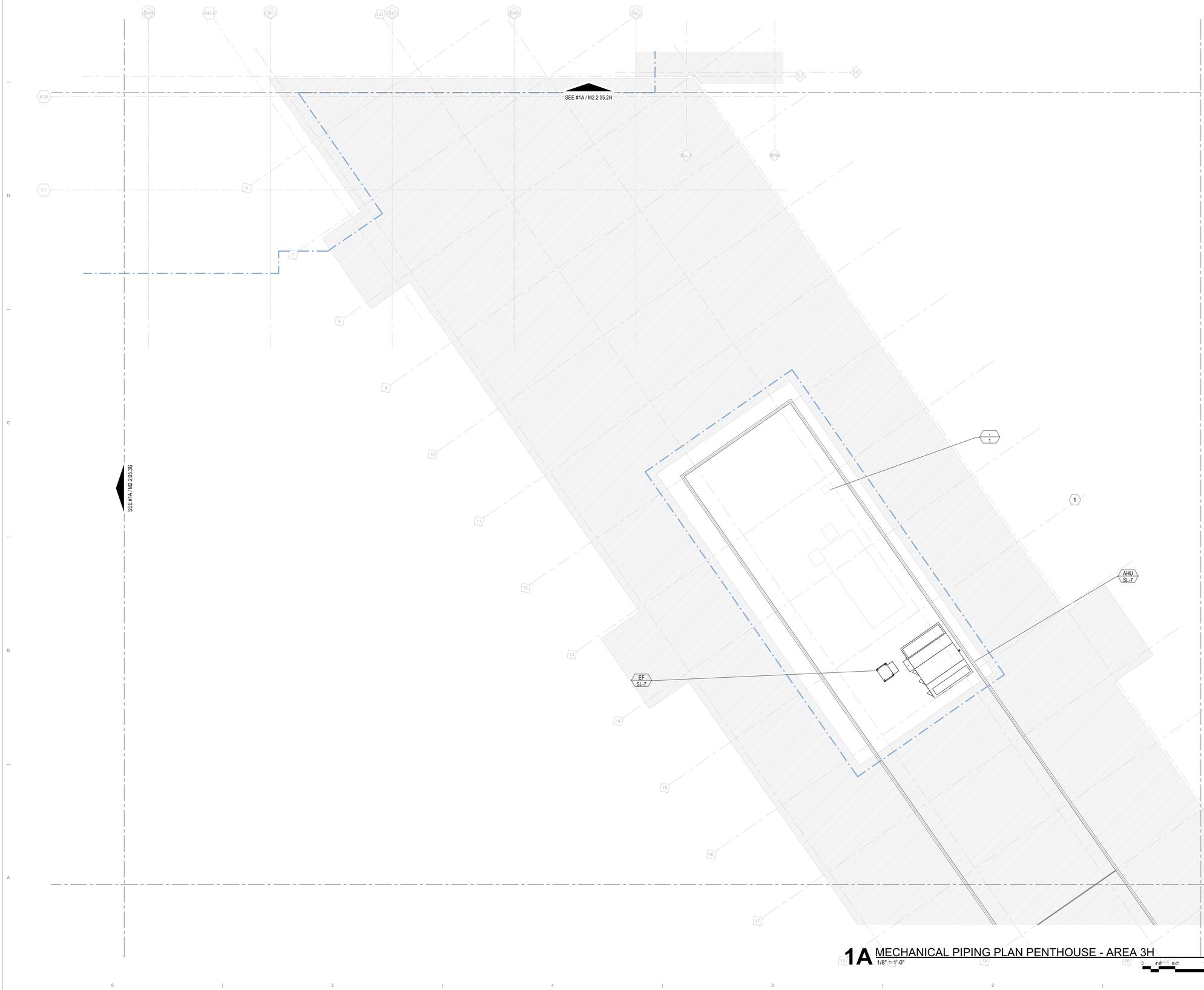

1A MECHANICAL PIPING PLAN PENTHOUSE - AREA 3H
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0" 32'-0"

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PHASE **DD**
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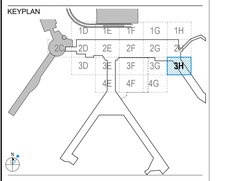
KEYPLAN



MECHANICAL PIPING PLAN PENTHOUSE - AREA 3H

DRAWN BY: **ARC** CHECKED BY: **WB**
SHEET NUMBER VOLUME: **2**

M2.2.05.3H

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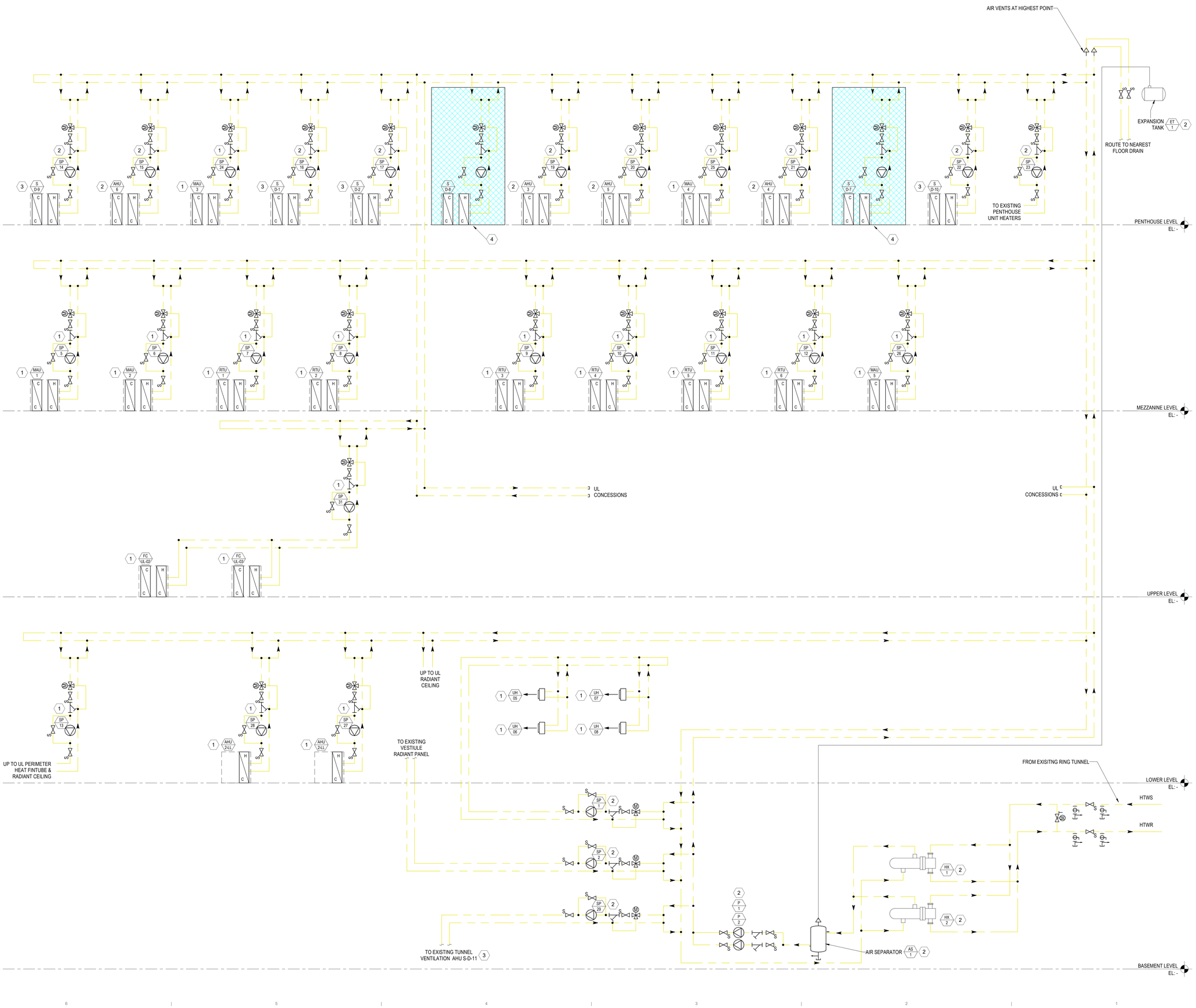
KEYNOTES:

1. NEW UNIT
2. NEW UNIT REPLACES EXISTING
3. EXISTING UNIT REMAINS AS-IS
4. DEMO'D UNIT - NO REPLACEMENT.



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REVISION: **--**
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MECHANICAL PIPING EAST MECHANICAL ROOM LTHW RISER DIAGRAM

DRAWN BY: **ARC**
CHECKED BY: **MAN**
SHEET NUMBER
VOLUME: **2**

M4.1.01

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KEYNOTES:

1. NEW UNIT
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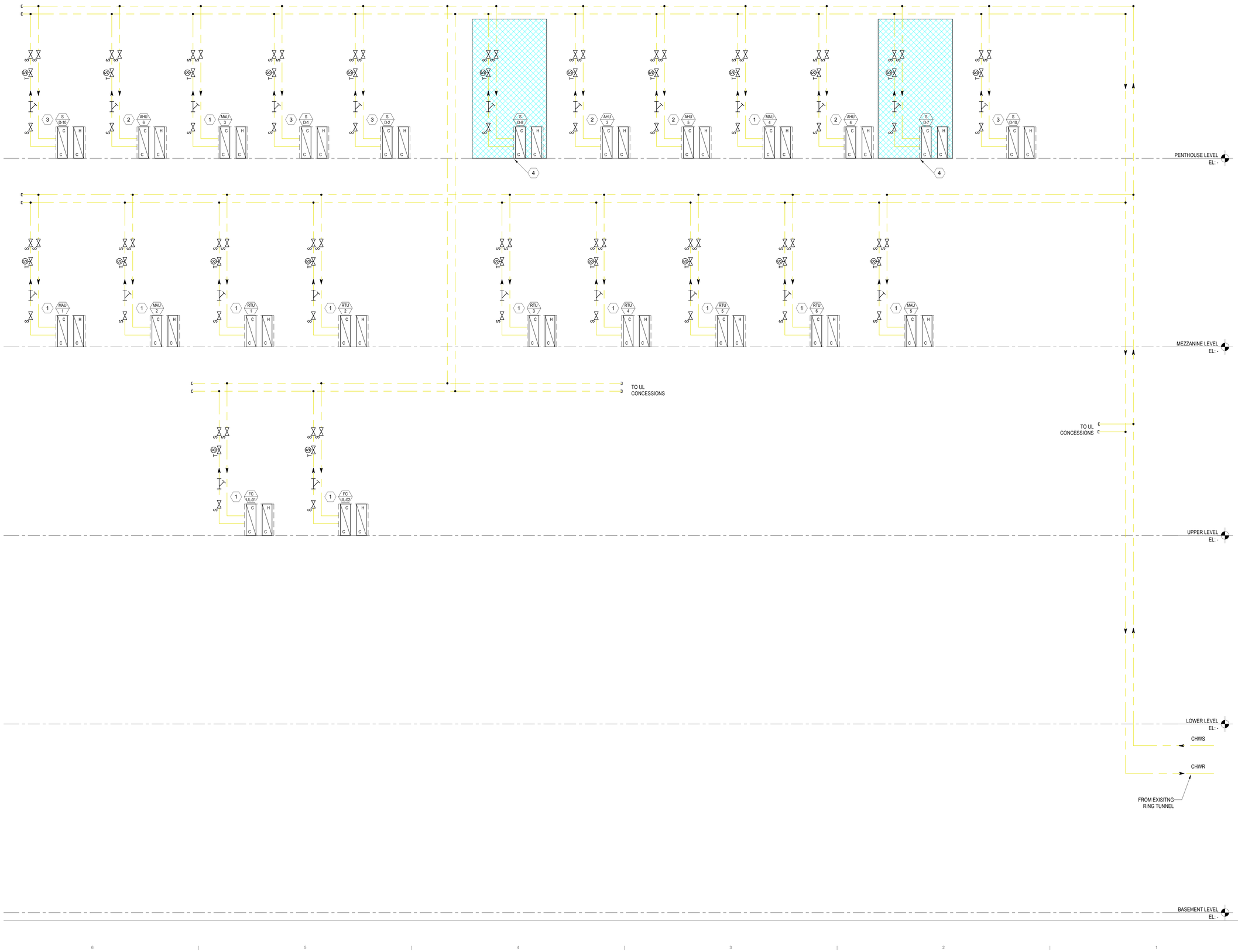
4. DEMO'D UNIT - NO REPLACEMENT.



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REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

MECHANICAL PIPING EAST MECHANICAL ROOM CHW RISER

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
VOLUME: **2**

M4.1.02

3/19/2023 8:53:53 PM

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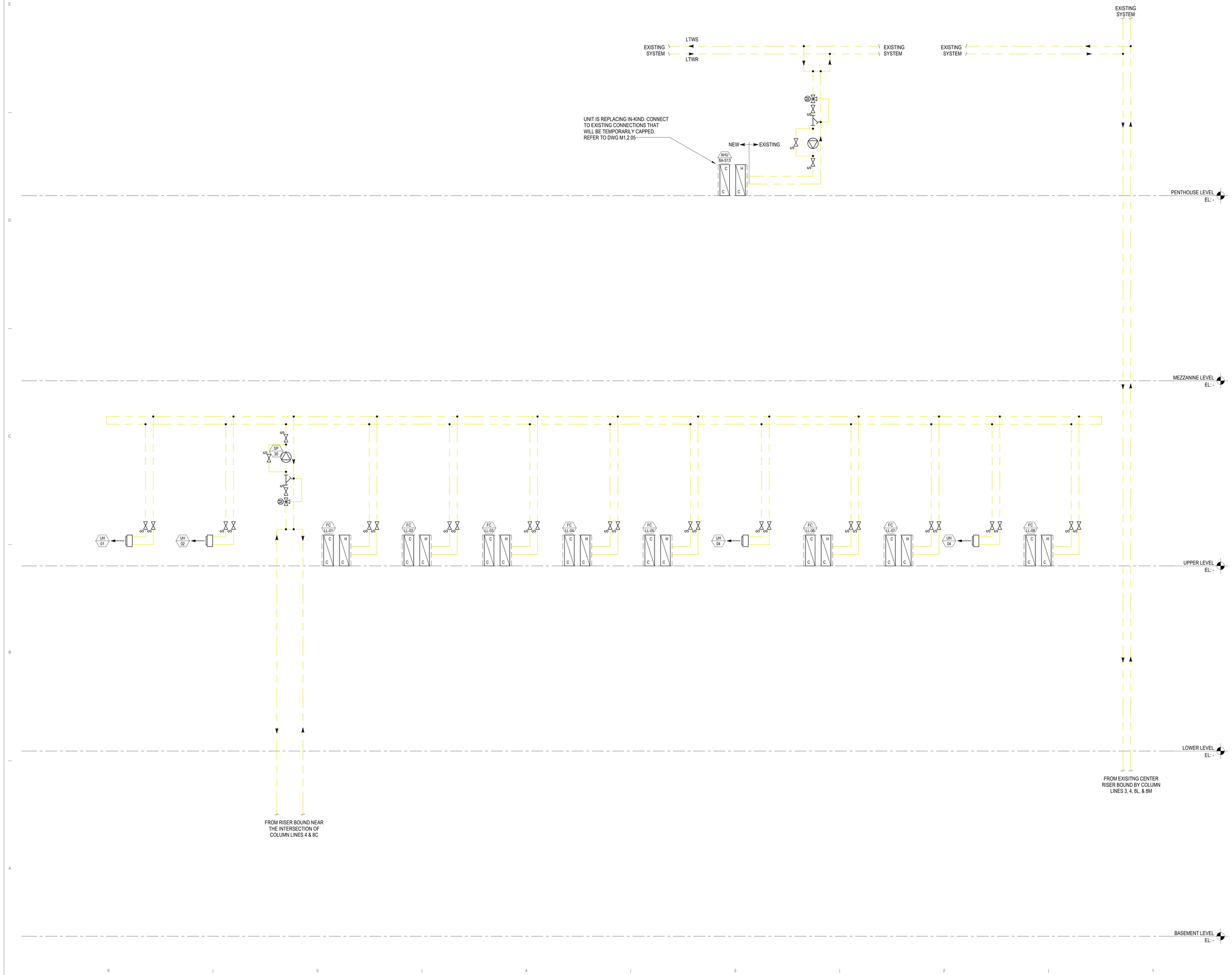

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JAMIE L. RHEE
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H1220.23-00

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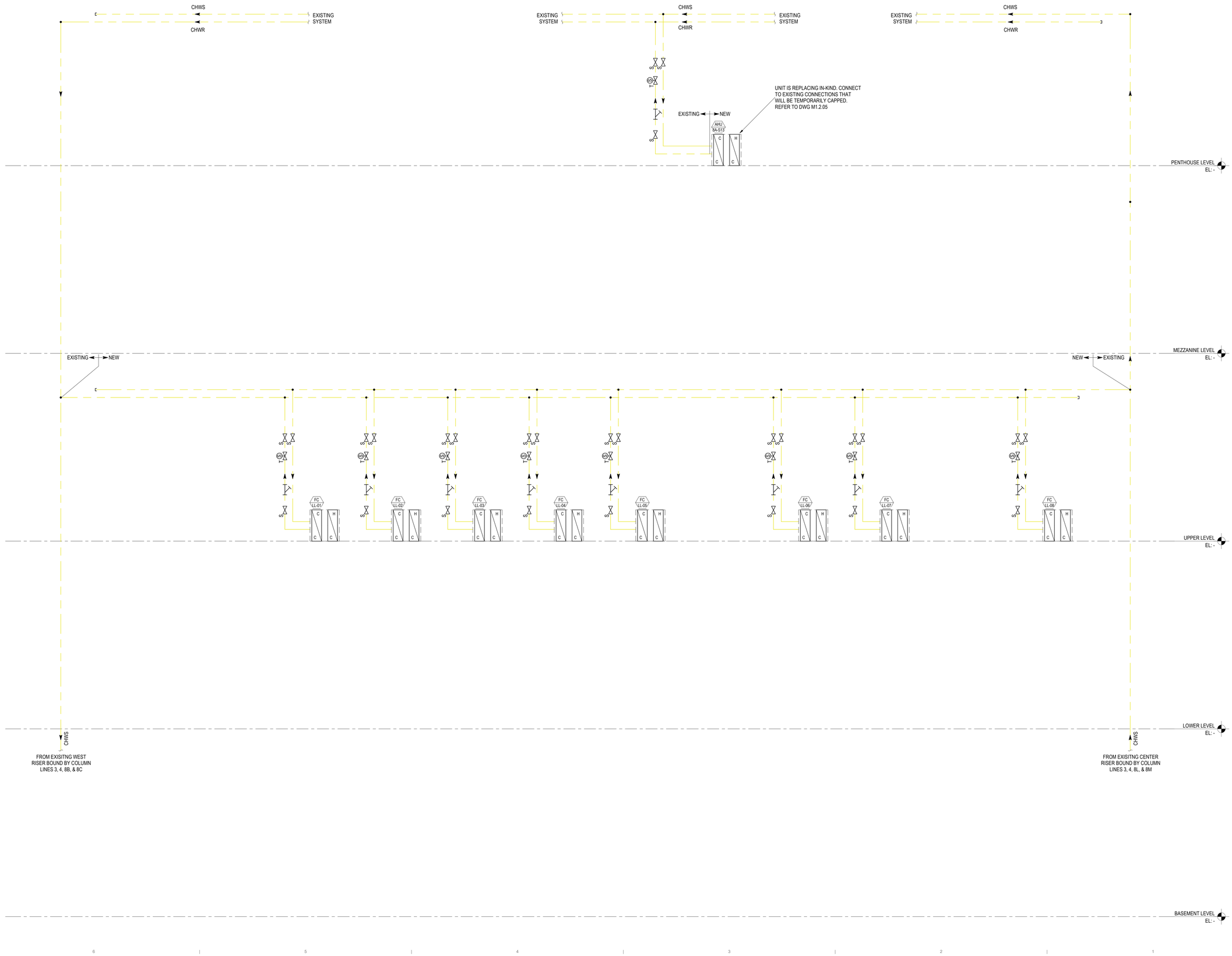
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

MECHANICAL PIPING BUILDING 8A & 8B LTHW RISER

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER: **M4.1.03**
VOLUME: **2**



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PACKAGE ISSUE DATE
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MECHANICAL PIPING BUILDING 8A & 8B CHW RISER

DRAWN BY: **KS**
CHECKED BY: **HC**

SHEET NUMBER
M4.1.04

VOLUME: **2**

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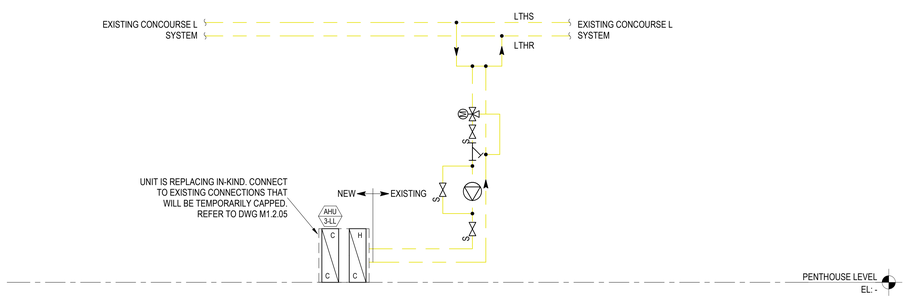
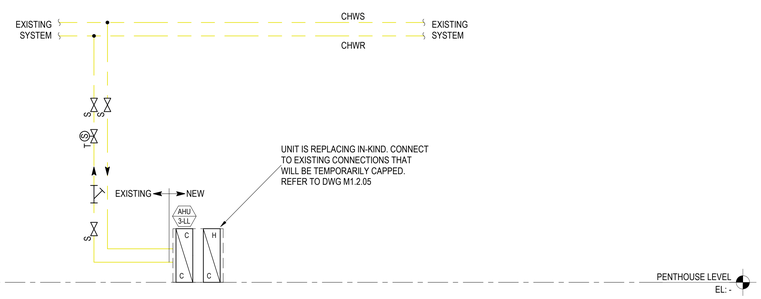


2 CONCOURSE L LTHW RISER DIAGRAM
NTS



1 CONCOURSE L CHW RISER DIAGRAM
NTS

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MECHANICAL PIPING CONCOURSE L RISERS

DRAWN BY: **KS** CHECKED BY: **HC**

SHEET NUMBER **M4.1.05** VOLUME: **2**

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EXISTING RADIANT PANEL. FOR INFORMATION ONLY.

PENTHOUSE LEVEL
EL: -

PERIMETER RADIANT CEILING PANELS (NORTH)

INTERIOR RADIANT CEILING PANEL(NORTH)

INTERIOR RADIANT CEILING PANELS (SOUTH)

DEMO EXISTING INTERIOR RADIANT CEILIING. REFER TO DWG. MD1.2.03

UPPER LEVEL CEILING

PERIMETER RADIANT CEILING PANELS (SOUTH)

UPPER LEVEL
EL: -

UNIT HEATERS (TYP.)

BAGGAGE HANDLING AREA SUPPLEMENTAL HEAT

DOWNBLAST PROPELLER UNIT HEATERS (TYP.)

LOWER LEVEL CEILING

PERIMETER RADIANT CEILING PANELS (NORTH)

LOWER LEVEL
EL: -

HTWS

HTWR

FROM EXISITNG RING TUNNEL

BASEMENT LEVEL
EL: -

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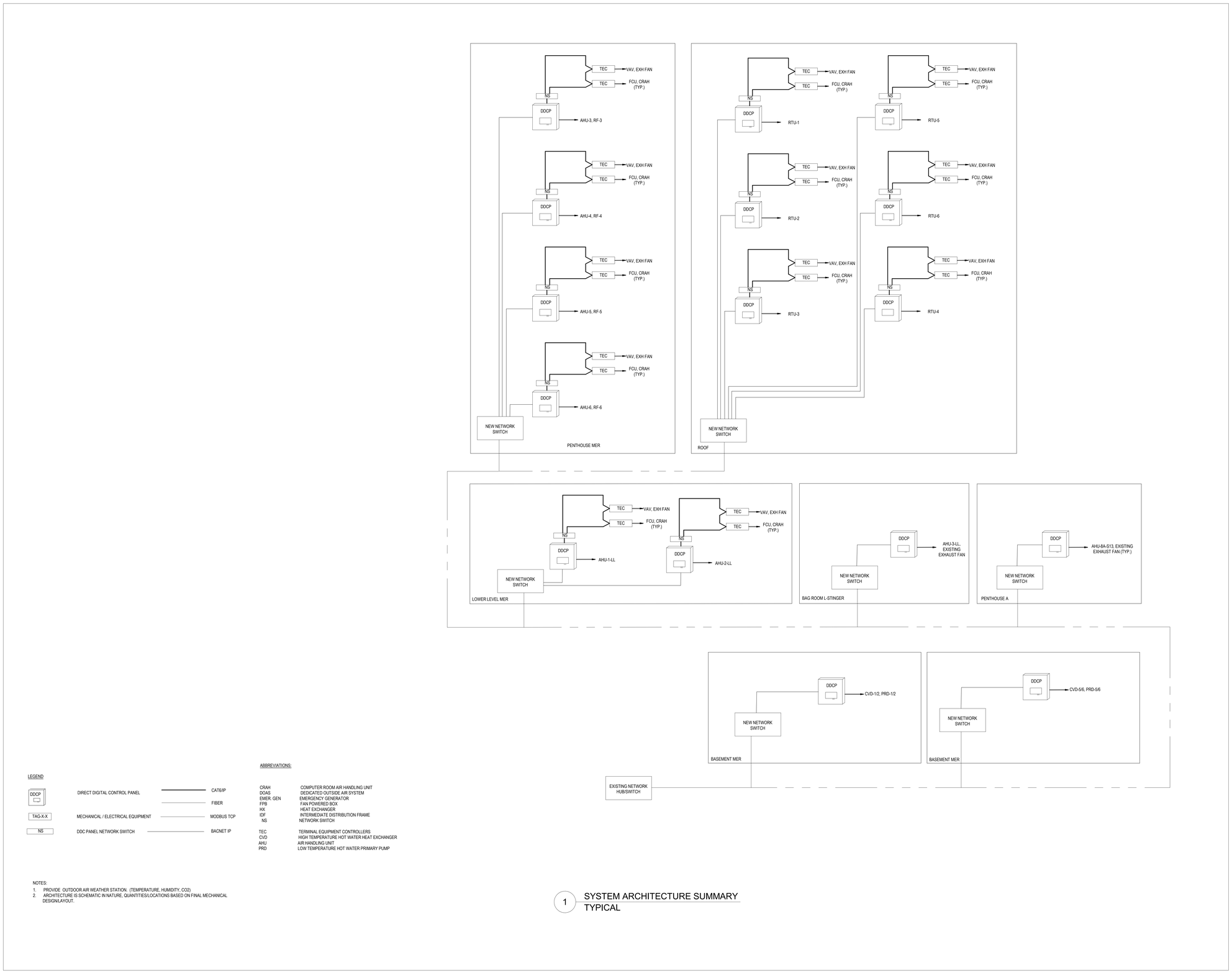
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

RADIANT SYSTEM RISER DIAGRAM

DRAWN BY: **ARC**
CHECKED BY: **MAN**
SHEET NUMBER **M4.3.01**
VOLUME: **2**



LEGEND

DDCP	DIRECT DIGITAL CONTROL PANEL	CAT6/IP	
		FIBER	
TAG-X-X	MECHANICAL / ELECTRICAL EQUIPMENT	MODBUS TCP	
NS	DDC PANEL NETWORK SWITCH	BACNET IP	

ABBREVIATIONS:

CRAH	COMPUTER ROOM AIR HANDLING UNIT
DOAS	DEDICATED OUTSIDE AIR SYSTEM
EMER. GEN	EMERGENCY GENERATOR
FPB	FAN POWERED BOX
HX	HEAT EXCHANGER
IDF	INTERMEDIATE DISTRIBUTION FRAME
NS	NETWORK SWITCH
TEC	TERMINAL EQUIPMENT CONTROLLERS
CVD	HIGH TEMPERATURE HOT WATER HEAT EXCHANGER
AHU	AIR HANDLING UNIT
PRD	LOW TEMPERATURE HOT WATER PRIMARY PUMP

NOTES:
1. PROVIDE OUTDOOR AIR WEATHER STATION. (TEMPERATURE, HUMIDITY, CO2)
2. ARCHITECTURE IS SCHEMATIC IN NATURE, QUANTITIES/LOCATIONS BASED ON FINAL MECHANICAL DESIGN/LAYOUT.

1 SYSTEM ARCHITECTURE SUMMARY TYPICAL

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MECHANICAL M&V SYSTEM

DRAWN BY: **KS** CHECKED BY: **HC**
SHEET NUMBER
M5.1.01
VOLUME: **2**

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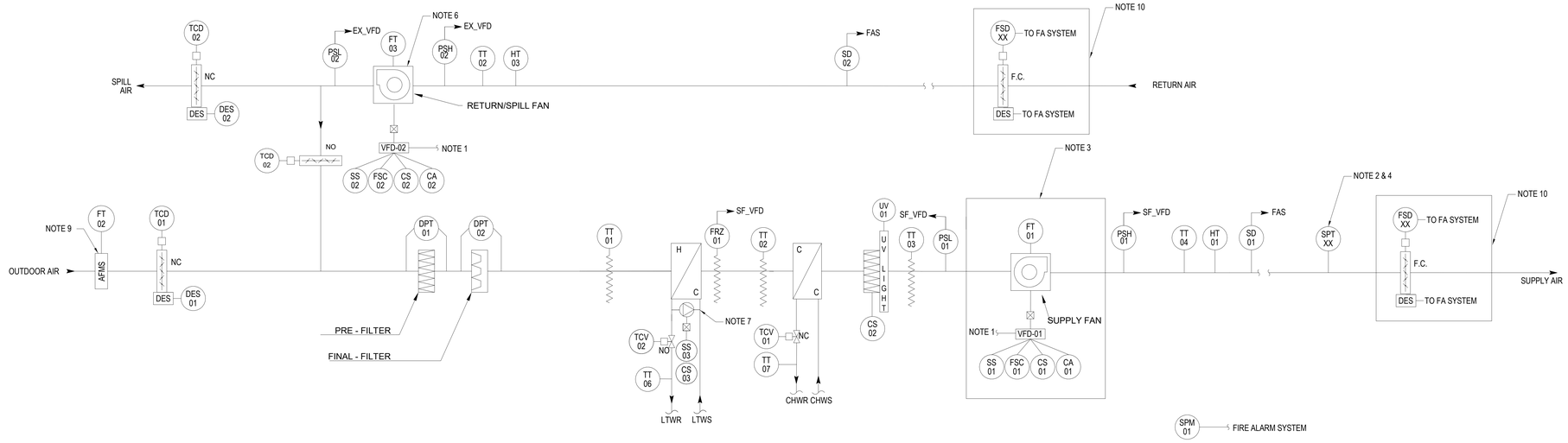

1. VARIABLE FLOW AIR HANDLING UNITS
2. GENERAL:
   a. OUTDOOR AIR DAMPER, MODULATING TYPE NORMALLY CLOSED (SPRING RETURN-FAIL-SAFE CLOSED).
   b. MIXED AIR DAMPER, MODULATING TYPE, NORMALLY OPEN (SPRING RETURN-FAIL SAFE CLOSED).
   c. SPILL AIR DAMPER, MODULATING TYPE, NORMALLY CLOSED (SPRING RETURN-FAIL SAFE CLOSED).
   d. COOLING COIL CONTROL VALVE, MODULATING TYPE, NORMALLY CLOSED.
   e. HEATING COIL CONTROL VALVE, MODULATING TYPE, NORMALLY OPEN.
   f. SUPPLY FAN VFD, 0% SPEED OUTPUT.
   g. RETURN/SPILL FAN VFD 0% SPEED OUTPUT. (IF APPLICABLE)
   h. MISCELLANEOUS EXHAUST FANS, OFF.
   i. PASSENGER BOARDING BRIDGE (PRESSURIZATION SYSTEM, OFF. (IF APPLICABLE)
2. HARDWIRED SAFETIES:
   k. SAFETIES SHALL BE ENABLED AT ALL TIMES.
   l. ON ACTIVATION OF DUCT SMOKE DETECTORS, THE SUPPLY AND RETURN FANS SHALL SHUT DOWN VIA FAS, THE RETURN FAN FIRE SMOKE DAMPERS SHALL BE COMMANDED CLOSED VIA HARDWIRED INTERLOCK WITH THE RETURN FAN, THE MIXED AIR AND OUTSIDE AIR DAMPERS SHALL BE COMMANDED CLOSED VIA HARDWIRED INTERLOCK WITH THE AIR HANDLING UNIT SUPPLY FAN. UNIT SHALL NOT BE ALLOWED TO RESTART UNTIL ALL ASSOCIATED DAMPERS ARE PROVED OPEN VIA ENDSWITCHES. AHU SHUTDOWN WIRING, RELAYS, ETC. FROM FAS OUTPUT MODULES TO SUPPLY AND RETURN FAN (IF APPLICABLE) VFD SHUTDOWN CIRCUIT SHALL BE PROVIDED BY M&V CONTRACTOR.
   c. LOW TEMPERATURE DEVICE (FRZ-PROVIDE ONE PER COIL SECTION) SHALL STOP THE SUPPLY AND RETURN/SPILL FAN (HARDWIRED TO FAN START CIRCUIT) WHENEVER HEATING COIL DISCHARGE AIR DROPS BELOW 35 DEG F (ADJ.). ASSOCIATED OUTSIDE AIR DAMPER SHALL CLOSE, MANUAL RESET.
   d. LOW SUCTION AND HIGH DISCHARGE PRESSURE SWITCHES FOR THE SUPPLY AND THE RETURN (IF APPLICABLE) FAN SHALL STOP BOTH THE SUPPLY AND RETURN (IF APPLICABLE) FANS VIA HARDWIRED INTERLOCK TO THE VFD WHEN THE DUCT PRESSURE EXCEEDS DESIGN. DUCT LOW AND HIGH STATIC PRESSURE SETTINGS SHALL CONFIRMED WITH THE BALANCING CONTRACTOR. A CRITICAL ALARM SHALL BE RAISED ON THE M&V WORKSTATION. MANUAL RESET TYPE.
3. SYSTEM OFF:
   a. WHEN THE SYSTEM IS OFF, ALL VALVES, DAMPERS AND CONTROL DEVICES SHALL BE IN THEIR NORMAL POSITION AS STATED ABOVE,
4. SYSTEM START-UP:
   a. THE SYSTEM SHALL BE STARTED AUTOMATICALLY BY THE M&V SYSTEM OPTIMUM START ROUTINE, TIME OF DAY SCHEDULE, NIGHT CYCLE MODE, OR VIA A MANUAL COMMAND FROM THE M&V WORKSTATION.
   b. WHEN THE SYSTEM IS COMMANDED ON THE MIXING DAMPERS SHALL BE INDEXED TO THE MINIMUM OUTSIDE AIR POSITION.
   c. WHEN THE SYSTEM IS COMMANDED ON, THE SUPPLY AND THE RETURN/SPILL (IF APPLICABLE) FANS SHALL START AT 0% (AFTER SUPPLY AIR AND RETURN AIR DAMPERS ARE PROVEN SUFFICIENTLY OPEN VIA DAMPER END SWITCH INDICATION) AND SLOWLY RAMP UP TO SPEED REQUIRED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT AND FAN TRACKING DIFFERENTIAL CFM SETPOINT. THE OUTSIDE AIR DAMPERS SHALL BE MODULATED TO MAINTAIN THE REDUCED MINIMUM OUTSIDE AIRFLOW SETPOINT (ADJUSTABLE) AS MEASURED BY THE OUTSIDE AIRFLOW SENSOR. THE MIXED AIR DAMPER SHALL MODULATE OPPOSITE IN RESPECT TO THE OUTSIDE AIR DAMPER TO ENSURE THAT THE MINIMUM OUTSIDE AIRFLOW FLOW CAN SATISFY SETPOINT. REFER TO FAN SCHEDULES FOR SUPPLY AND RETURN FAN CFM VALUES.
   d. THE RETURN/SPILL FAN(S) SHALL BE ENABLED TO RUN WHEN THE ASSOCIATED AHU SUPPLY FANS ARE COMMANDED ON. REFER TO MECHANICAL BALANCING AND INTERLOCK SCHEDULE.
   e. AFTER THE SUPPLY AND RETURN (IF APPLICABLE) FANS STATUS IS PROVEN ON VIA PROOF OF AIRFLOW THE SYSTEM SHALL BE INDEXED TO WARM-UP, COOL-DOWN OR OCCUPIED NORMAL TEMPERATURE CONTROL MODE.
5. WARM-UP MODE:
   a. ON RECEIPT OF A HEATING START SIGNAL WITH THE RETURN AIR TEMPERATURE BELOW SETPOINT OF 68 DEGF (ADJUSTABLE) THE THE AHU SHALL RUN IN THE WARM-UP MODE.
   b. THE OUTSIDE AND SPILL AIR DAMPER SHALL BE INDEXED TO THE CLOSED POSITION. THE MIXED AIR DAMPER SHALL BE INDEXED TO THE 100% OPEN POSITION.
   c. THE HEATING COIL SHALL BE ENABLED TO MAINTAIN THE WARM-UP DISCHARGE AIR TEMPERATURE SETPOINT (ADJUSTABLE). THE COOLING COIL CONTROL VALVE SHALL BE CLOSED.
   d. TERMINAL UNITS IN ZONES REQUIRING HEATING SHALL BE OPEN TO THE MAXIMUM DESIGN OVERALL VOLUME. TERMINAL UNIT HEATING COIL CONTROL VALVES SHALL MODULATE TO MAINTAIN THE ZONE WARM-UP TEMPERATURE SETPOINT (ADJUSTABLE).
   e. SUPPLY AND RETURN FAN PRESSURIZATION CONTROL SHALL BE DISABLED. THE SUPPLY FAN SHALL MODULATE UNDER NORMAL STATIC PRESSURE CONTROL AND THE RETURN/SPILL FAN SHALL BE CONTROLLED TO MAINTAIN A CFM VALUE.
   f. THE WARM-UP MODE SHALL BE DISABLED AT OCCUPANCY TIME OR WHEN THE RETURN TEMPERATURE EXCEED SETPOINT OF 68 DEF (ADJUSTABLE) BY 2 DEGF FOR 10 MINUTES. THE SYSTEM SHALL BE INDEXED TO THE OCCUPIED NORMAL TEMPERATURE CONTROL MODE.
6. COOL DOWN MODE:
   a. ON RECEIPT OF A COOLING START SIGNAL WITH ANY ZONE ABOVE SETPOINT (70 DEGF, ADJUSTABLE) THE AHU SHALL RUN UNDER NORMAL TEMPERATURE CONTROL WITH THE ENTHALPY LOOP ENABLED. THE DISCHARGE AIR TEMPERATURE SHALL BE MAINTAINED AT THE COOL DOWN SETPOINT (ADJUSTABLE).
   b. ALL TERMINAL BOXES REQUIRING COOLING SHALL BE OPEN TO THE MAXIMUM DESIGN VOLUME. THE HEATING COIL SHALL BE DISABLED.
   c. SUPPLY AND RETURN FANS TRACKING CONTROL SHALL BE DISABLED. THE SUPPLY FAN SHALL MODULATE UNDER NORMAL STATIC PRESSURE CONTROL AND THE RETURN FAN SHALL BE CONTROLLED TO MAINTAIN A VALUE MATCHING THE SUPPLY FAN VOLUME MINUS A DIFFERENTIAL.
   d. THE COOL DOWN MODE SHALL BE DISABLED WHEN EITHER THE OCCUPANCY TIME IS REACHED, OR WHEN THE SPACE TEMPERATURE IN ANY ZONE DROPS BELOW SETPOINT BY 3DEGF FOR 10 MINUTES (ADJUSTABLE). THE SYSTEM SHALL BE INDEXED TO THE OCCUPIED NORMAL TEMPERATURE CONTROL MODE.
7. NORMAL TEMPERATURE CONTROL MODE:
   a. ON A CALL FOR HEATING, VIA COMPARISON BETWEEN DISCHARGE AIR TEMPERATURE AND DISCHARGE AIR TEMPERATURE SETPOINT, THE PREHEAT COIL SHALL BE ENABLED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE (OFF UNIT) AT STARTING SETPOINT (55-60 DEGF, ADJUSTABLE). THE COOLING COIL CONTROL VALVE SHALL BE CLOSED.
   b. ON A CALL FOR COOLING, VIA COMPARISON BETWEEN DISCHARGE AIR TEMPERATURE AND DISCHARGE AIR TEMPERATURE SETPOINT, THE COOLING COIL CONTROL VALVE SHALL BE MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE RESET SETPOINT (OFF UNIT,ADJUSTABLE). THE PREHEAT COIL SHALL BE DISABLED.
8. ECONOMIZER CONTROL MODE:
   a. CONTROLLER SHALL COMPARE OUTSIDE AIR ENTHALPY TO RETURN AIR ENTHALPY. WHEN OUTSIDE AIR ENTHALPY IS LESS THAN RETURN AIR ENTHALPY, ECONOMIZER MODE SHALL BE ENABLED.
   b. WHEN ECONOMIZER MODE IS ENABLED, THE OUTSIDE, RETURN, AND SPILL AIR DAMPERS SHALL MODULATE IN UNISON (WITH RETURN AIR DAMPER ACTING OPPOSITE TO OUTSIDE AIR AND SPILL AIR DAMPERS) TO MAINTAIN DISCHARGE AIR TEMPERATURE AT SETPOINT.
   c. IF OUTSIDE AIR DAMPER IS GREATER THAN 95% OPEN (ADJ.) FOR 5 MINUTES (ADJ.) OR GREATER, THE UNIT SHALL LOCK THE MODULATING DAMPERS IN THEIR FULLY OPEN POSITIONS AND SHALL THEN MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE AT SETPOINT.
   d. IF THE COOLING COIL CONTROL VALVE SUBSEQUENTLY IS LESS THEN 3% OPEN (ADJ.) FOR 5 MINUTES (ADJ.), THE ECONOMIZER COIL CONTROL VALVE SHALL BE DISABLED, AND THE OUTSIDE, RETURN, AND SPILL AIR DAMPERS SHALL BE MODULATED IN UNISON (WITH RETURN AIR DAMPER ACTING OPPOSITE TO OUTSIDE AIR AND SPILL AIR DAMPERS) TO MAINTAIN DISCHARGE AIR TEMPERATURE AT SETPOINT.
   e. WHEN ECONOMIZER MODE IS DISABLED, THE OUTSIDE, RETURN AND EXHAUST AIR DAMPERS SHALL TO RETURN TO THEIR NORMAL POSITIONS AND THE UNIT SHALL MODULATE THE ECONOMIZER COIL AND CYCLE THE DX COIL IN SEQUENCE TO MAINTAINDISCHARGE TEMPERATURE AT SETPOINT.
   f. IF AIRSIDE ECONOMIZER IS DETERMINED TO BE UNSUITABLE, BASED ON THE COMPARISON BETWEEN OUTSIDE AIR ENTHALPY AND RETURN AIR ENTHALPY, THE MECHANICAL COOLING MODE SHALL BE ENABLED. THE PREHEAT COIL CONTROL VALVE SHALL CLOSE 100%. THE COOLING COIL SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE ATSETPOINT.
9. DISCHARGE AIR TEMPERATURE RESET:
   a. THE DEFAULT VALUE FOR THE SUPPLY AIR TEMPERATURE SETPOINT IS 55 DEGF (ADJUSTABLE).
   b. SUPPLY AIR TEMPERATURE SHALL BE RESET USING TRIM AND RESPONSE LOGIC (ASHRAE GUIDELINE 36) WITHIN A RANGE OF 55DEGF TO 60DEGF. WHEN THE SUPPLY FAN IS OFF THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE AT AN INITIAL VALUE OF 60DEGF (ADJUSTABLE). FIVE MINUTES AFTER THE SUPPLY FAN IS PROVEN ON THE TERMINAL UNIT SHALL COMMUNICATE WITH AHU WITH COOLING RESET REQUEST IN THE FOLLOWING MANNER:
   b.a. IF THE ZONE TEMPERATURE EXCEEDS THE ZONE'S COOLING SETPOINT BY 5 DEGF FOR 2 MINUTES SEND 3 REQUESTS.
   b.b. IF THE ZONE TEMPERATURE EXCEEDS THE ZONE'S COOLING SETPOINT BY 3 DEGF FOR 2 MINUTES SEND 2 REQUESTS.
   b.c. SEND ONE COOLING REQUEST UNTIL THE COOLING LOOP IS LESS THAN 85%.
   c. TRIM: WHEN THE SUPPLY FAN IS PROVEN ON, EVERY 2 MINUTES INCREASE THE SUPPLY AIR TEMPERATURE SETPOINT BY 0.2DEGF (ADJUSTABLE) IF THERE IS ONE OR FEWER TERMINAL BOX ZONE COOLING
   d. RESPONSE: IF THERE IS MORE THAN ONE (ADJUSTABLE) COOLING REQUEST DECREASE THE SETPOINT BY 0.3DEGF (ADJUSTABLE) EVERY 2 MINUTES FOR EVERY COOLING REQUEST BUT NO MORE THAN A MAXIMUM OF 1.0 DEGF PER TIME
   e. THE OPERATOR SHALL HAVE THE ABILITY TO REMOVE ANY TERMINAL UNIT FROM THE SUPPLY AIR TEMPERATURE RESET SEQUENCE VIA THEOPERATOR
10. SUPPLY AND RETURN FAN CFM CONTROL:
   a. THE SUPPLY FAN VFD SHALL BE MODULATED TO MAINTAIN THE SUPPLY DUCT STATIC PRESSURE SETPOINT (ADJUSTABLE).
   b. STATIC PRESSURE SETPOINT SHALL BE RESET USING TRIM AND RESPONSE LOGIC (ASHRAE GUIDELINE 36) WITHIN A CONTROL RANGE OF 0.15 TO 1.5 INCHES (ADJUSTABLE). THE SYSTEM SHALL HAVE AN INITIAL STATIC PRESSURE SETPOINT (ADJUSTABLE) AS DETERMINED BY THE TAB BALANCING CONTRACTOR. WHEN THE SUPPLY FAN IS OFF THE STATIC PRESSURE RESET SHALL BE AT THE INITIAL VALUE OF 1 INCHES (ADJUSTABLE). 5 MINUTES AFTER UNIT STARTUP ONCE ANY INDIVIDUAL TERMINAL BOX DAMPER IS OPEN AT LEAST 95% THE UNIT SHALL COMMUNICATE WITH THE AHU WITH STATIC PRESSURE RESET REQUESTS IN THE FOLLOWINGMANNER:
   b.a. IF THE MEASURED AIRFLOW IS LESS THAN 50% OF SETPOINT WHILE SETPOINT IS GREATER THAN ZERO AND THE DAMPER POSITION IS GREATER THAN 95% FOR 1 MINUTE SEND 3 PRESSURE
   b.b. IF THE MEASURED AIRFLOW IS LESS THAN 75% OF SETPOINT WHILE SETPOINT IS GREATER THAN ZERO AND THE DAMPER POSITION IS GREATER THAN 95% FOR 1 MINUTE SEND 2 PRESSURE
   b.c. SEND ONE PRESSURE REQUEST UNTIL THE DAMPER POSITION IS LESS THAN 85% OPEN.
   c. TRIM: WHEN THE NUMBER OF STATIC PRESURE REQUESTS FROM THE TERMINAL UNITS ARE AT 2 REQUESTS (ADJUSTABLE) OR BELOW THE SYSTEM WILL REDUCE (TRIM) AND THE STATIC PRESSURE SETPOINT SHALL BE DECREASED BY 0.04 INCHES EVERY 2 MINUTES (ADJUSTABLE).
   d. RESPONSE: IF THERE ARE MORE THAN 2 STATIC PRESSURE REQUESTS (ADJUSTABLE) THEN THE SYSTEM SHALL RESPOND BY INCREASING THE STATIC SETPOINT BY 0.04 INCHES EVERY TWO MINUTES (ADJUSTABLE) FOR EVERY PRESSURE REQUEST BUT NO MORE THAN A MAXIMUM OF 0.15 INCHES PER TIME STEP UNTIL THE STATIC PRESSURE REQUESTS ARE SATISFIED OR THE MAXIMUM STATIC PRESSURE VALUE IS REACHED.
   e. THE OPERATOR SHALL HAVE THE ABILITY TO REMOVE ANY TERMINAL UNIT FROM THE STATIC PRESSURE RESET SEQUENCE VIA THE OPERATORWORKSTATION.
11. POST FIRE SMOKE PURGE CONTROL:
   a. WHEN THE UNIT IS COMMANDED BY THE FIRE ALARM SYSTEM (VIA HARDWIRED RELAYS) TO RUN IN SMOKE PURGE MODE, THE PRIMARY AIR DAMPER AND MIXED AIR DAMPER SHALL CLOSE AND THE ECONOMIZER AIR DAMPER SHALL FULLY OPEN, THE SPILL AIR DAMPER SHALL FULLY OPEN, ALL ASSOCIATED FIRE SMOKE DAMPERS SHALL BE OPENED VIA COMMAND FROM THE FIRE ALARM SYSTEM. WHEN DAMPER POSITIONS ARE VERIFIED VIA INPUT FROM THEIR RESPECTIVE END SWITCHES, THE SUPPLY AIR FAN SHALL START AND RUN AT 100% TO PROVIDE MAKE-UP AIR TO THE RESPECTIVE ZONE THAT WAS PLACED INTO SMOKE PURGE MODE. SUPPLY FAN SHALL CONTINUE TO RUN UNTIL UNIT IS TAKEN OUT OF SMOKE PURGE MODE VIA COMMAND AT THE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM COMMAND SHALL OVERRIDE ANY COMMAND FROM THE M&V SYSTEM FOR UNIT OPERATION.

1 RE-CIRCULATING AHU TYPICAL

NOTES:

1. FAN VFD'S SHALL BE INTEGRATED WITH M&V SYSTEM VIA BACNET IP COMMUNICATIONS. ONE VFD FOR EACH FAN IN ARRAY.
2. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATIONS
3. SUPPLY FAN FLOW TRANSMITTERS (FOR EACH FAN IN ARRAY) TO BE FACTORY-PROVIDED BY AHU MANUFACTURER.
4. PRESSURE TRANSMITTER ARE TO BE MOUNTED AT A MINIMUM 2/3 DOWNSTREAM FROM AHU.
5. OUTSIDE AIR TEMPERATURE AND HUMIDITY VALUES VIA GLOBAL VALUES RESIDENT IN THE M&V SYSTEM.
6. RETURN FAN FLOW TRANSMITTERS TO BE PROVIDED/INSTALLED BY M&V CONTRACTOR.
7. STACKED DOUBLE COILS WILL REQUIRE 2 CIRCULATING PUMPS AND ASSOCIATED CONTROLS, ONE FOR EACH COIL.
8. POINT LIST IS TYPICAL PER SENSOR/DEVICE.
9. AIRFLOW MEASURING STATION TO BE PROVIDED BY M&V CONTRACTOR.
10. FIRE SMOKE DAMPERS TO BE CONTROLLED VIA FIRE ALARM SYSTEM. M&V SYSTEM SHALL INTEGRATE TO FIRE ALARM FOR MONITORING OF FSD POSITION.

POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS					SOFTWARE POINTS			NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
TT-XX	TEMPERATURE TRANSMITTER			X				X			TYPICAL
HT-XX	HUMIDITY TRANSMITTER			X				X			TYPICAL
FT-XX	FLOW TRANSMITTER (CFM)			X				X			TYPICAL
DPT-XX	DIFFERENTIAL PRESSURE TRANSMITTER			X				X			MAINTENANCE ALARM
PT-XX	PRESSURE TRANSMITTER			X				X			TYPICAL
TCV-XX	TEMPERATURE CONTROL VALVE				X			X			TYPICAL
TCD-XX	TEMPERATURE CONTROL DAMPER				X						TYPICAL
FRZ-XX	LOW TEMPERATURE DEVICE - FREEZESTAT	X							COV	ALARM	CRITICAL ALARM-SHUTDOWN
PSL-XX	PRESSURE SWITCH LOW	X							COV	ALARM	CRITICAL ALARM-SHUTDOWN
PSH-XX	PRESSURE SWITCH HIGH	X							COV	ALARM	CRITICAL ALARM-SHUTDOWN
CS-XX	CURRENT SENSOR			X				X			STATUS
UV-XX	UV LIGHT- STATUS	X						X			ALARM ON FAILURE
ST-XX	STATUS	X									
DES-XX	DAMPER END SWITCH	X						X			DAMPER POSITION STATUS
SPT-XX	STATIC PRESSURE TRANSMITTER			X				X			
SS-XX	START/STOP - CIRCULATING PUMP (HW COIL)		X								
SS-XX	START/STOP - FAN VFD		X				X				TYPICAL PER FAN
CS-XX	STATUS - FAN VFD	X					X	X	COV	ALARM ON FAILURE	TYPICAL PER FAN
FSC-01	FAN SPEED CONTROL - FAN VFD				X	X					TYPICAL PER FAN
FBK-XX	FEEDBACK - FAN VFD			X		X		X	1:00		TYPICAL PER FAN
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN POWER (KWH)					X			X		VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN RUN STATUS					X			X		VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN SPEED FEEDBACK						X		X		VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN FAULT ALARM						X		X	TYPICAL	VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN BYPASS STAUS					X					VFD INTEGRATION
SPM-XX	SMOKE PURGE MODE- ENABLE	X						X	COV		

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
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STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

MECHANICAL M&V SYSTEM

DRAWN BY: **KK** CHECKED BY: **TG**
SHEET NUMBER: **M5.1.02** VOLUME: **2**

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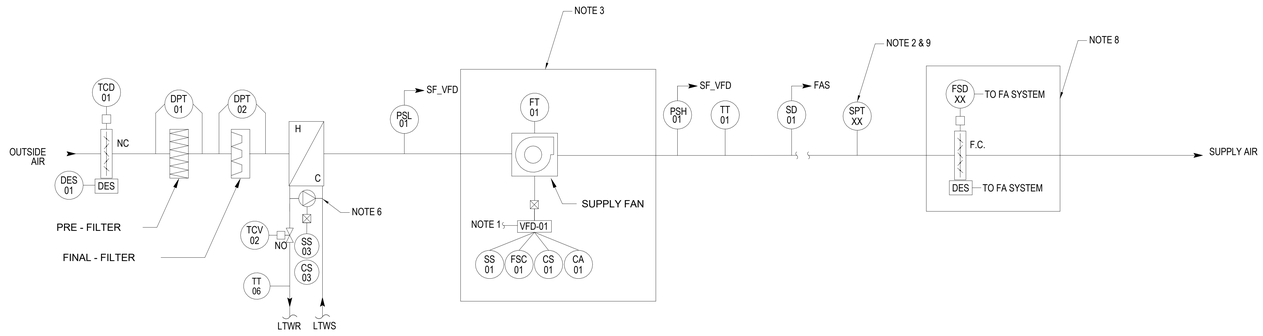

1. 100% OUTSIDE AIR HANDLING UNIT:
2. GENERAL:
   a. OUTSIDE AIR DAMPER, MODULATING TYPE, NORMALLY CLOSED.
   b. HEATING COIL CONTROL VALVE, MODULATING TYPE, NORMALLY CLOSED
   c. SUPPLY FAN VFD, 0% SPEED OUTPUT. (EACH VFD)
   d. MISCELLANEOUS EXHAUST FANS, OFF.
3. HARDWIRED SAFETIES:
   a. SAFETIES SHALL BE ENABLED AT ALL TIMES.
   b. ON ACTIVATION OF DUCT SMOKE DETECTORS THE SUPPLY FAN SHALL SHUT DOWN VIA FAS. AHU SHUTDOWN WIRING, RELAYS, ETC. FROM FAS OUTPUT MODULES TO SUPPLY FAN VFD SHUTDOWN CIRCUIT SHALL BE PROVIDED BY M&V SYSTEM CONTRACTOR.
   c. LOW TEMPERATURE DEVICE (FRZ-PROVIDE ONE PER COIL SECTION) SHALL STOP THE SUPPLY FAN (HARDWIRED TO FAN START CIRCUIT) WHENEVER HEATING COIL DISCHARGE AIR DROPS BELOW 35 DEG F (ADJ.). ASSOCIATED OUTSIDE AIR DAMPER SHALL CLOSE. MANUAL RESET.
   d. LOW SUCTION AND HIGH DISCHARGE PRESSURE SWITCHES FOR THE SUPPLY FAN SHALL STOP THE SUPPLY FAN VIA HARDWIRED INTERLOCK TO THE VFD WHEN THE DUCT STATIC PRESSURE EXCEEDS DESIGN. DUCT LOW AND HIGH STATIC PRESSURE SETTINGS SHALL CONFIRMED WITH THE BALANCING CONTRACTOR. A CRITICAL ALARM SHALL BE RAISED ON THE M&V WORKSTATION. MANUAL RESET TYPE.
4. SYSTEM OFF:
   a. WHEN THE SYSTEM IS OFF, ALL VALVES, DAMPERS AND CONTROL DEVICES SHALL BE IN THEIR NORMAL POSITION AS STATED ABOVE.
5. SYSTEM START-UP:
   a. THE AHU SYSTEM SHALL BE STARTED AUTOMATICALLY BY THE M&V OPTIMUM START ROUTINE, TIME OF DAY SCHEDULE, OR VIA A MANUAL COMMAND FROM THE M&V WORKSTATION. THE AHU SHALL BE INTERLOCKED TO RUN WHEN OR AC UNITS ARE ENABLED.
   b. WHEN THE SYSTEM IS COMMANDED ON THE OUTSIDE AND THE SUPPLY AIR DAMPER SHALL OPEN AND THE SUPPLY FAN SHALL START AFTER THE OUTSIDE AIR DAMPER HAS OPENED SUFFICIENTLY AS PROVEN BY THE DAMPER END SWITCH FEEDBACK.
   c. WHEN THE SYSTEM IS COMMANDED ON, THE SUPPLY FAN SHALL START AT 0% AND SLOWLY RAMP UP TO SPEED REQUIRED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT.
   d. THE TUG AREA EXHAUST FAN(S) SHALL BE ENABLED TO RUN WHEN THE ASSOCIATED AHU SUPPLY FAN IS COMMANDED ON. REFER TO MECHANICAL BALANCING AND INTERLOCK SCHEDULE FOR REQUIRED TENANT EXHAUST FAN INTERLOCKS.
   e. AFTER THE SUPPLY FANS STATUS IS PROVEN ON VIA PROOF OF AIRFLOW THE SYSTEM SHALL BE INDEXED TO THE OCCUPIED NORMAL TEMPERATURE CONTROL MODE.
6. NORMAL TEMPERATURE CONTROL MODE:
   a. ON A CALL FOR HEATING, VIA COMPARISON BETWEEN DISCHARGE AIR TEMPERATURE AND DISCHARGE AIR TEMPERATURE SETPOINT, THE HEATING COIL CONTROL VALVE SHALL BE MODULATED OPEN TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT SETPOINT (62-64 DEGF, ADJUSTABLE). THE COOLING COIL CONTROL VALVE SHALL BE CLOSED.
   b. THE DISCHARGE AIR TEMPERATURE SHALL BE RESET BASED ON SPACE TEMPERATURE
7. SUPPLY FAN PRESSURIZATION CONTROL:
   a. THE SUPPLY FAN VFD SHALL BE MODULATED TO MAINTAIN THE SUPPLY DUCT STATIC PRESSURE SETPOINT (ADJUSTABLE).
   b. STATIC PRESSURE RESET (FUTURE PROVISION): THE M&V SYSTEM SHALL MONITOR THE ACTUAL AIRFLOW THROUGH EACH TERMINAL UNIT AND COMPARE IT TO THE TERMINAL UNIT FLOW SETPOINT AND RESET THE SUPPLY FAN STATIC PRESSURE SETPOINT DOWN OR UP IN 0.1 INCH W.C. (ADJUSTABLE) INCREMENTS EVERY FIVE MINUTES TO MAINTAIN THE FLOW SETPOINT OF ALL TERMINAL UNITS. WHILE REDUCING SUPPLY FAN PRESSURE SETPOINT TO ITS LOWEST POSSIBLE SETTING. STATIC PRESSURE SETPOINT SHALL RESET NO LOWER THAN 0.8 IN WC (ADJUSTABLE) AND NO HIGHER THAN 1.5 IN WC (ADJUSTABLE).
8. FILTERS:
   a. THE FILTERS SHALL BE MONITORED BY DIFFERENTIAL PRESSURE SENSORS. A MAINTENANCE ALARM SHALL BE RAISED ON THE M&V WORKSTATION ON INDICATION OF A CHANGE FILTER CONDITION.
9. OUTSIDE AIR DAMPER OVERRIDE/ SHUTDOWN SWITCH:
   a. THE LOCAL WALL SWITCH SHALL BE LOCATED ADJACENT TO EACH 100% OUTSIDE AIR UNIT IN IT'S RESPECTIVE MER. WHEN THE WALL SWITCH IS INDEXED TO THE "SHUTDOWN POSITION" THE MAKE-UP UNIT SHALL SHUTDOWN AND IT'S ASSOCIATED OUTSIDE AIR DAMPER SHALL CLOSE. AN ALARM SHALL BE ANNUNCIATED AT THE M&V WORKSTATION. WHEN THE LOCAL WALL SWITCH IS INDEXED (AUTOMATICALLY, AFTER TIME DELAY RELAY, ADJ.) BACK TO THE "NORMAL AUTOMATIC POSITION" THE UNIT SHALL BE INDEXED TO THE NORMAL OPERATING MODE, THE OUTSIDE AIR DAMPER SHALL OPEN AND ONCE DAMPER HAS BEEN PROVEN SUFFICIENTLY OPEN VIA THE DAMPER END SWITCH THE SUPPLY FAN SHALL START.
   b. M&V CONTRACTOR SHALL PROVIDE AN ADDITIONAL MASTER SOFTWARE SWITCH AT THE M&V WORKSTATION (LABELED "MASTER OUTSIDE AIR DAMPER OVERRIDE") , SOFTWARE SWITCH SHALL ALLOW THE OPERATOR TO AUTOMATICALLY INDEX ALL OUTSIDE AIR DAMPERS CLOSED, SHUTDOWN THE DOAS AND OUTSIDE AIR UNITS, AND RUN THE AIR HANDLING UNITS IN FULL RE-CIRCULATION MODE. WHEN THE MASTER SOFTWARE SWITCH IS INDEXED BACK TO THE NORMAL OPERATING MODE, THE OUTSIDE AIR DAMPERS SHALL BEGIN TO OPEN AND THE AIR HANDLING UNITS SHALL SOFT START SEQUENTIALLY (ADJUSTABLE TIME DELAY BETWEEN AHU START SIGNALS).
10. POST FIRE SMOKE PURGE CONTROL:
   a. WHEN THE UNIT IS COMMANDED BY THE FIRE ALARM SYSTEM (VIA HARDWIRED RELAYS) TO RUN IN SMOKE PURGE MODE, THE PRIMARY AIR DAMPER SHALL OPEN, ALL ASSOCIATED FIRE SMOKE DAMPERS SHALL BE OPENED VIA COMMAND FROM THE FIRE ALARM SYSTEM. WHEN DAMPER POSITIONS ARE VERIFIED VIA INPUT FROM THEIR RESPECTIVE END SWITCHES, THE SUPPLY AIR FAN SHALL START AND RUN AT 100% TO PROVIDE MAKE-UP AIR TO THE RESPECTIVE ZONE THAT WAS PLACED INTO SMOKE PURGE MODE. SUPPLY FAN SHALL CONTINUE TO RUN UNTIL UNIT IS TAKEN OUT OF SMOKE PURGE MODE VIA COMMAND AT THE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM COMMAND SHALL OVERRIDE ANY COMMAND FROM THE M&V SYSTEM FOR UNIT OPERATION.

1 100% OA AHU (TUG UNIT) TYPICAL

NOTES:

1. FAN VFD'S SHALL BE INTEGRATED WITH M&V VIA BACNET IP COMMUNICATIONS. ONE VFD FOR EACH FAN IN ARRAY.
2. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATIONS
3. PROVIDE FLOW SENSORS QUANTITY FOR EACH FAN IN ARRAY. SUPPLY FAN FLOW TRANSMITTERS TO BE FACTORY-PROVIDED BY AHU MANUFACTURER.
4. OUTSIDE AIR TEMPERATURE AND HUMIDITY VALUES VIA GLOBAL VALUES RESIDENT IN THE M&V.
5. COOLING SECTION NOT INCLUDED ON HEATING AND VENTILATION UNITS. REFER TO MECHANICAL SCHEDULES FOR UNIT LAYOUT.
6. STACKED DOUBLE COILS WILL REQUIRE 2 CIRCULATING PUMPS AND ASSOCIATED CONTROLS, ONE FOR EACH COIL.
7. POINT LIST IS TYPICAL PER SENSOR/DEVICE.
8. FIRE SMOKE DAMPERS TO BE CONTROLLED VIA FIRE ALARM SYSTEM. M&V SHALL INTEGRATE TO FIRE ALARM FOR MONITORING OF FSD POSITION.
9. PRESSURE TRANSMITTER ARE TO BE MOUNTED AT A MINIMUM 2/3 DOWNSTREAM FROM AHU.

100% OUTSIDE AIR AHU (TUG MAKE-UP UNIT) - POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS				NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
TT-XX	TEMPERATURE TRANSMITTER			X				X			TYPICAL
FT-XX	FLOW TRANSMITTER (CFM)			X				X			TYPICAL
DPT-XX	DIFFERENTIAL PRESSURE TRANSMITTER			X				X			MAINTENANCE ALARM
FRZ-XX	LOW LIMIT TEMPERATURE SENSOR (FREEZE-STAT)			X							ALARM ON LOW TEMPERATURE
TCV-XX	TEMPERATURE CONTROL VALVE				X			X			TYPICAL
TCD-XX	TEMPERATURE CONTROL DAMPER				X						TYPICAL
PSL-XX	PRESSURE SWITCH LOW	X						X	COV	ALARM	CRITICAL ALARM-SHUTDOWN
PSH-XX	PRESSURE SWITCH HIGH	X						X	COV	ALARM	CRITICAL ALARM-SHUTDOWN
PS-XX	PRESSURE SENSOR- BLEED TYPE	X		X							MER PRESSURE (BLEED SENSOR)
CS-XX	CURRENT SENSOR			X				X			STATUS
DES-XX	DAMPER END SWITCH	X						X			DAMPER POSITION STATUS
SPT-XX	STATIC PRESSURE TRANSMITTER			X				X			
SD-XX	SMOKE DETECTOR- SUPPLY AIR								COV		FAS ALARM-SHUTDOWN
SS-XX	START/STOP - CIRCULATING PUMP (HW COIL)		X								
SS-XX	START/STOP - FAN VFD		X				X				TYPICAL PER FAN
CS-XX	STATUS - FAN VFD	X					X	X	COV	ALARM ON FAILURE	TYPICAL PER FAN
FSC-XX	FAN SPEED CONTROL - FAN VFD				X	X					TYPICAL PER FAN
FBK-XX	FEEDBACK - FAN VFD			X			X		1:00		TYPICAL PER FAN
CA-XX	COMMON ALARM - FAN VFD	X					X	X	COV	ALARM	TYPICAL PER FAN
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN POWER (KWH)					X			X		VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN RUN STATUS					X			X		VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN SPEED FEEDBACK						X		X	TYPICAL	VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN FAULT ALARM						X		X	TYPICAL	VFD INTEGRATION
VFD-XX	VARIABLE FREQUENCY DRIVE- FAN BYPASS STAUS										VFD INTEGRATION

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

MECHANICAL M&V SYSTEM

DRAWN BY: **KK** CHECKED BY: **TG**
SHEET NUMBER **M5.1.03** VOLUME: **2**

3/19/2023 8:55:07 PM

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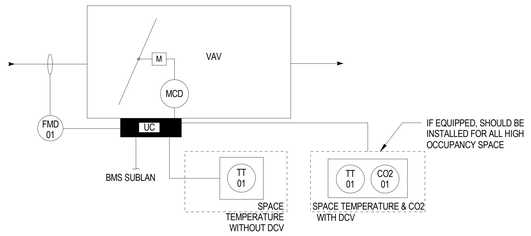


VAV SEQUENCE OF OPERATIONS:

A. GENERAL:
1. SPACE TEMPERATURE AT EACH ZONE SHALL BE MAINTAINED AT THE COOLING AND HEATING SETPOINTS (ADJ.). PROVIDE GLOBAL SETPOINT ADJUSTMENT VIA BMS WORKSTATION FOR THE VAV TERMINAL BOXES GROUPED BY AC UNITS AND FLOORS.
2. TIME-OF-DAY SCHEDULE: HVAC SYSTEMS WILL OPERATE AUTOMATICALLY BY A TIME SIGNAL FROM THE BUILDING MANAGEMENT SYSTEM (BMS). OCCUPIED/UNOCCUPIED ADJUSTABLE TIME DURATIONS SHALL BE SET AT THE BMS WORKSTATION BUT BE RESIDENT IN THE LOCAL UNITARY CONTROLLER (UC) FOR OPERATION.
3. DURING OPERATING MODE, THE VAV DAMPER SHALL MODULATE TO MAINTAIN AIRFLOW AT ACTIVE AIRFLOW SETPOINT (ADJ.).
4. VAV DAMPER SHALL BE NORMALLY CLOSED DURING THE UNOCCUPIED MODE.
5. VAV DAMPER SHALL FAIL IN PLACE IN THE EVENT OFA POWER LOSS.

B. COOLING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM COOLING SCHEDULE VALUES.

C. HEATING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM HEATING SCHEDULED VALUES. IF NO MAXIMUM HEATING SCHEDULED AIRFLOW IS PROVIDED, THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET TO THE MINIMUM SETPOINT.

D. NIGHT SETBACK: DURING UNOCCUPIED PERIODS, IF SPACE TEMPERATURE EXCEEDS UNOCCUPIED COOLING OR HEATING SETPOINT (ADJ.), VAV SHALL OPERATE IN NIGHT SETBACK MODE AS DESCRIBED IN THE AHU SEQUENCE OF OPERATIONS.

E. OPTIMAL START: IF COMMANDED TO OPTIMAL START OPERATING MODE (WARM UP OR COOL DOWN) BY ITS RESPECTIVE AHU, THE VAV SHALL MODULATE TO MAINTAIN AIRFLOW AT ITS MAXIMUM SCHEDULED VALUE UNTIL THE TRANSITION TO THE OCCUPIED OPERATING MODE

F. DEMAND CONTROL VENTILATION (IF EQUIPPED): UPON DETECTION OF AN ELEVATED CO2 LEVEL GREATER THAN 650 PPM ABOVE OUTSIDE AIR CO2 CONCENTRATION, THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET TO THE MAXIMUM SCHEDULED VALUE. UPON A SUBSEQUENT DETECTION OF A LOWERED CO2 LEVEL LESS THAN 450 PPM ABOVE OUTSIDE AIR CO2 CONCENTRATION, THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RELEASED BACK TO TEMPERATURE CONTROL.

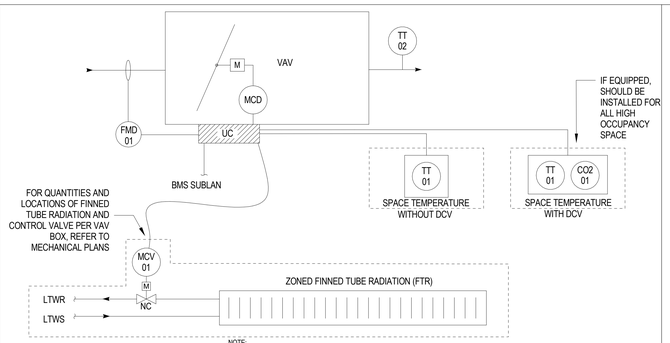
NOTE:

1. REFER TO MECHANICAL PLANS FOR QUANTITIES AND LOCATIONS OF AREAS SERVED.
2. PROVIDE ROOM TEMPERATURE SENSOR WITH ADJUSTABLE TYPE WITH DISPLAY. SENSORS INSTALLED IN PUBLIC SPACES SHALL HAVE BLANK FACES.
3. VAV BOX CONTROLLER, ACTUATOR AND AIR FLOW TRANSMITTER SHALL BE FURNISHED BY THE CONTROLS CONTRACTOR AND FACTORY MOUNTED BY THE VAV BOX MANUFACTURER.
4. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING.
5. DETAIL TYPICAL FOR VAV DUCT DAMPER ASSEMBLY, REFER TO MECHANICAL FLOOR-PLANS FOR QUANTITY AND LOCATIONS.

POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
TT-01	TEMPERATURE TRANSMITTER - SPACE							X	1:00		
FMD-01	FLOW MEASURING DEVICE - SUPPLY			X				X	1:00		
MCD-01	MODULATING CONTROL DAMPER - SUPPLY										
CO2-01	CO_2SENSOR - SPACE			X				X			

1 VAV BOX COOLING ONLY-CONTROL DETAIL TYPICAL



NOTE:

1. REFER TO MECHANICAL PLANS FOR QUANTITIES AND LOCATIONS OF AREAS SERVED.
2. PROVIDE ROOM TEMPERATURE SENSOR WITH ADJUSTABLE TYPE WITH DISPLAY. SENSORS INSTALLED IN PUBLIC SPACES SHALL HAVE BLANK FACES.
3. VAV BOX CONTROLLER, ACTUATOR AND AIR FLOW TRANSMITTER SHALL BE FURNISHED BY THE CONTROLS CONTRACTOR AND FACTORY MOUNTED BY THE VAV BOX MANUFACTURER.
4. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING.

VAV SEQUENCE OF OPERATIONS:

A. GENERAL:
1. SPACE TEMPERATURE AT EACH ZONE SHALL BE MAINTAINED AT THE COOLING AND HEATING SETPOINTS (ADJ.). PROVIDE GLOBAL SETPOINT ADJUSTMENT VIA BMS WORKSTATION FOR THE VAV TERMINAL BOXES GROUPED BY AC UNITS AND FLOORS.
2. TIME-OF-DAY SCHEDULE: HVAC SYSTEMS WILL OPERATE AUTOMATICALLY BY A TIME SIGNAL FROM THE BUILDING MANAGEMENT SYSTEM (BMS). OCCUPIED/UNOCCUPIED ADJUSTABLE TIME DURATIONS SHALL BE SET AT THE BMS WORKSTATION BUT BE RESIDENT IN THE LOCAL UNITARY CONTROLLER (UC) FOR OPERATION.
3. DURING OPERATING MODE, THE VAV DAMPER SHALL MODULATE TO MAINTAIN AIRFLOW AT ACTIVE AIRFLOW SETPOINT (ADJ.).
4. VAV DAMPER SHALL BE NORMALLY CLOSED DURING THE UNOCCUPIED MODE.
5. VAV DAMPER SHALL FAIL IN PLACE IN THE EVENT OF A POWER LOSS.
6. FTR CONTROL VALVE SHALL FAIL IN PLACE ON POWER FAILURE.

B. COOLING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM COOLING SCHEDULE VALUES.

C. HEATING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM HEATING SCHEDULED VALUES. IF NO MAXIMUM HEATING SCHEDULED AIRFLOW IS PROVIDED, THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET TO THE MINIMUM SETPOINT. ON A FURTHER CALL FOR HEATING, THE FIN TUBE RADIATOR (FTR) SHALL BE MODULATED TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.

D. NIGHT SETBACK: DURING UNOCCUPIED PERIODS, IF SPACE TEMPERATURE EXCEEDS UNOCCUPIED COOLING OR HEATING SETPOINT (ADJ.), VAV SHALL OPERATE IN NIGHT SETBACK MODE AS DESCRIBED IN THE AHU SEQUENCE OF OPERATIONS.

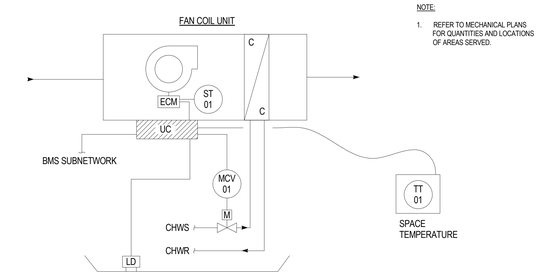
E. OPTIMAL START: IF COMMANDED TO OPTIMAL START OPERATING MODE (WARM UP OR COOL DOWN) BY ITS RESPECTIVE AHU, THE VAV SHALL MODULATE TO MAINTAIN AIRFLOW AT ITS MAXIMUM SCHEDULED VALUE UNTIL THE TRANSITION TO THE OCCUPIED OPERATING MODE

F. DEMAND CONTROL VENTILATION (IF EQUIPPED): UPON DETECTION OF AN ELEVATED CO2 LEVEL GREATER THAN 650 PPM ABOVE OUTSIDE AIR CO2 CONCENTRATION, THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET TO THE MAXIMUM SCHEDULED VALUE. UPON A SUBSEQUENT DETECTION OF A LOWERED CO2 LEVEL LESS THAN 450 PPM ABOVE OUTSIDE AIR CO2 CONCENTRATION, THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RELEASED BACK TO TEMPERATURE CONTROL.

POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
TT-01	TEMPERATURE TRANSMITTER - SPACE			X				X	1:00		
TT-02	HEATING COIL DISCHARGE TEMPERATURE			X				X	1:00		
FMD-01	FLOW MEASURING DEVICE			X				X	1:00		
MCD-01	MODULATING CONTROL DAMPER - SUPPLY			X				X	15 MINS		
MCV-01	MODULATING CONTROL VALVE				X						

2 VAV BOX COOLING & FTR-CONTROL DETAIL TYPICAL



NOTE:

1. REFER TO MECHANICAL PLANS FOR QUANTITIES AND LOCATIONS OF AREAS SERVED.

FAN COIL UNIT
A. GENERAL:
1. SPACE TEMPERATURE AT EACH ZONE SHALL BE MAINTAINED AT THE COOLING AND HEATING SETPOINTS (ADJ.). PROVIDE GLOBAL SETPOINT ADJUSTMENT VIA BMS WORKSTATION FOR THE VAV TERMINAL BOXES GROUPED BY AC UNITS AND FLOORS.
2. TIME-OF-DAY SCHEDULE: HVAC SYSTEMS WILL OPERATE AUTOMATICALLY BY A TIME SIGNAL FROM THE BUILDING MANAGEMENT SYSTEM (BMS). OCCUPIED/UNOCCUPIED ADJUSTABLE TIME DURATIONS SHALL BE SET AT THE BMS WORKSTATION BUT BE RESIDENT IN THE LOCAL UNITARY CONTROLLER (UC) FOR OPERATION.
3. DURING OPERATING MODE, THE ECM FAN SHALL MODULATE TO MAINTAIN AIRFLOW AT ACTIVE AIRFLOW SETPOINT (ADJ.).
4. ECM FAN SHALL BE NORMALLY OFF DURING THE UNOCCUPIED MODE.
5. COOLING COIL CONTROL VALVE SHALL BE NORMALLY CLOSED DURING THE UNOCCUPIED MODE
6. COOLING COIL CONTROL VALVE SHALL FAIL CLOSED IN THE EVENT OF A POWER LOSS.

B. COOLING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM COOLING SCHEDULED VALUES. ON A FURTHER CALL FOR COOLING, THE ECM FAN SHALL MAINTAIN AIRFLOW AT THE MAXIMUM COOLING SCHEDULED VALUE AND THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.

C. HEATING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM HEATING SCHEDULED VALUES. IF NO MAXIMUM HEATING SCHEDULED AIRFLOW IS PROVIDED, THE ECM FAN SHALL MAINTAIN AIRFLOW AT THE MAXIMUM COOLING SCHEDULED VALUE AND THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.

D. NIGHT SETBACK: DURING UNOCCUPIED PERIODS, IF SPACE TEMPERATURE EXCEEDS UNOCCUPIED COOLING OR HEATING SETPOINT (ADJ.), FCU SHALL OPERATE IN NIGHT SETBACK MODE AS DESCRIBED IN THE AHU SEQUENCE OF OPERATIONS.

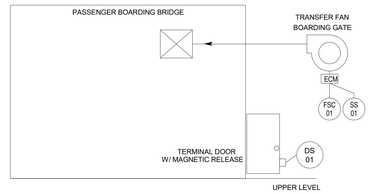
E. OPTIMAL START: IF COMMANDED TO OPTIMAL START OPERATING MODE (WARM UP OR COOL DOWN) BY ITS RESPECTIVE AHU, THE FCU SHALL MODULATE TO MAINTAIN AIRFLOW AT ITS MAXIMUM SCHEDULED VALUE UNTIL THE TRANSITION TO THE OCCUPIED OPERATING MODE. DURING COOL DOWN, THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT

F. UPON DETECTION OF A LEAK, THE UNIT SHALL BE SHUT DOWN AND ALL CONTROL DEVICES SHALL REVERT TO THEIR NORMAL POSITIONS. THE BMS SHALL RAISE AN ALARM.

POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
ST-01	STATUS - FAN	X						X	COV	ALARM ON FAILURE	
MCD-01	MODULATING CONTROL VALVE - COOLING COIL				X						
LD-01	LEAK DETECTOR	X						X	COV	ALARM	
TT-01	TEMPERATURE TRANSMITTER - SPACE			X				X	15 MINS		
TT-02	TEMPERATURE TRANSMITTER - DISCHARGE			X				X	15 MINS		
C02-01	SPACE CARBON DIOXIDE			X				X	15 MINS		

3 FAN COIL UNIT TYPICAL



NOTE:

1. REFER TO MECHANICAL PLANS FOR QUANTITIES AND LOCATIONS OF AREAS SERVED.
2. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING.
3. DOOR SWITCH SHALL BE INTEGRAL AS PART OF THE DOOR ASSEMBLY. PROVIDE DOUBLE POLE DOUBLE THROW DOOR CONTACTS.

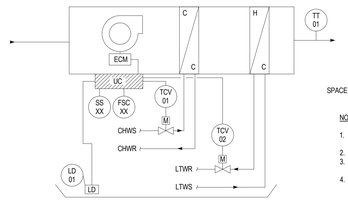
1. BOARDING GATE
a. OCCUPIED MODE:
1.1. THE ZONE SHALL BE INDEXED TO THE OCCUPIED MODE VIA THE TIME OF DAY SCHEDULE OR WHEN ANY OF THE DOORS BETWEEN THE PASSENGER BOARDING BRIDGE AND THE TERMINAL ARE OPEN.
1.2. WHEN THE DOOR BETWEEN THE BOARDING GATE AND PASSENGER BOARDING BRIDGE IS OPEN, THE BMS SHALL ENABLE THE TRANSFER FAN TO PROVIDE POSITIVE PRESSURIZATION TO THE PASSENGER BOARDING BRIDGE.

b. EMERGENCY MODE:
1.1. UPON ACTIVATION OF A FIRE ALARM SIGNAL AT THE PASSENGER BOARDING BRIDGE, THE TRANSFER AIR FAN SHALL BE ENABLED TO RUN TO MAINTAIN PRESSURIZATION, DISREGARD THE POSITION OF ANY OF THE DOORS AT THE PASSENGER BOARDING GATE.
1.1. UPON ACTIVATION OF A FIRE ALARM SIGNAL AT THE BOARDING GATE, ALL COMBINATION FIRE AND SMOKE DAMPERS (FSD) FROM THE ZONE AIR HANDLING UNIT AND TRANSFER AIR FAN SHALL BE OFF AS COMMANDED BY THE CENTRAL FIRE ALARM SYSTEM.

PASSENGER BOARDING PIER- POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
DS-01	DOOR SWITCH - TERMINAL DOOR UPPER LEVEL	X					X				
SS-01	START/STOP - FAN ECM		X								
FSC-01	FAN SPEED CONTROL - FAN ECM				X			X	COV	ALARM ON FAILURE	

6 PASSENGER BOARDING GATE TYPICAL



NOTE:

1. REFER TO MECHANICAL PLANS FOR QUANTITIES AND LOCATIONS OF AREAS SERVED.
2. FAN COIL UNITS INTEGRATED WITH BMS VIA BACnet PROTOCOL.
3. DISCHARGE TEMPERATURE AND SPACE HUMIDITY SENSOR FURNISHED BY FAN COIL UNIT MANUFACTURER, INSTALLED BY BMS CONTRACTOR.
4. WHENEVER MOISTURE IS SENSED BY THE LEAK DETECTOR, CHILLED WATER ISOLATION VALVE SHALL CLOSE, AS PART OF THE HARDWIRED SAFETY CIRCUIT.

FAN COIL UNIT
A. GENERAL:
1. SPACE TEMPERATURE AT EACH ZONE SHALL BE MAINTAINED AT THE COOLING AND HEATING SETPOINTS (ADJ.). PROVIDE GLOBAL SETPOINT ADJUSTMENT VIA BMS WORKSTATION FOR THE FAN COIL UNITS GROUP BY FLOORS.
2. TIME-OF-DAY SCHEDULE: HVAC SYSTEMS WILL OPERATE AUTOMATICALLY BY A TIME SIGNAL FROM THE BUILDING MANAGEMENT SYSTEM (BMS). OCCUPIED/UNOCCUPIED ADJUSTABLE TIME DURATIONS SHALL BE SET AT THE BMS WORKSTATION BUT BE RESIDENT IN THE LOCAL UNITARY CONTROLLER (UC) FOR OPERATION.
3. DURING OPERATING MODE, THE ECM FAN SHALL MODULATE TO MAINTAIN AIRFLOW AT ACTIVE AIRFLOW SETPOINT (ADJ.).
4. ECM FAN SHALL BE NORMALLY OFF DURING THE UNOCCUPIED MODE.
5. COOLING COIL CONTROL VALVE SHALL BE NORMALLY CLOSED DURING THE UNOCCUPIED MODE
6. COOLING COIL CONTROL VALVE SHALL FAIL CLOSED IN THE EVENT OF A POWER LOSS.
7. HEATING COIL CONTROL VALVE SHALL BE NORMALLY CLOSED DURING THE UNOCCUPIED MODE
8. HEATING COIL CONTROL VALVE SHALL FAIL CLOSED IN THE EVENT OF A POWER LOSS.

B. COOLING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM COOLING SCHEDULED VALUES. ON A FURTHER CALL FOR COOLING, THE ECM FAN SHALL MAINTAIN AIRFLOW AT THE MAXIMUM COOLING SCHEDULED VALUE AND THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.

C. HEATING MODE: THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET BETWEEN THE MINIMUM AND MAXIMUM HEATING SCHEDULED VALUES. IF NO MAXIMUM HEATING SCHEDULED AIRFLOW IS PROVIDED, THE ACTIVE AIRFLOW SETPOINT (ADJ.) SHALL BE RESET TO THE MINIMUM SETPOINT. ON A FURTHER CALL FOR HEATING, THE HEATING COIL CONTROL VALVE SHALL BE MODULATED TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.

D. NIGHT SETBACK: DURING UNOCCUPIED PERIODS, IF SPACE TEMPERATURE EXCEEDS UNOCCUPIED COOLING OR HEATING SETPOINT (ADJ.), FCU SHALL OPERATE IN NIGHT SETBACK MODE AS DESCRIBED IN THE AHU SEQUENCE OF OPERATIONS.

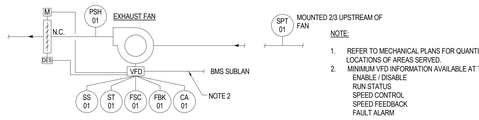
E. OPTIMAL START: IF COMMANDED TO OPTIMAL START OPERATING MODE (WARM UP OR COOL DOWN) THE FCU SHALL MODULATE TO MAINTAIN AIRFLOW AT ITS MAXIMUM SCHEDULED VALUE UNTIL THE TRANSITION TO THE OCCUPIED OPERATING MODE. DURING COOL DOWN, THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.

F. UPON DETECTION OF A LEAK, THE UNIT SHALL BE SHUT DOWN AND ALL CONTROL DEVICES SHALL REVERT TO THEIR NORMAL POSITIONS. THE BMS SHALL RAISE AN ALARM.

FAN COIL UNIT - POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
SS-XX	START/STOP - FAN ECM		X								
FSC-XX	FAN SPEED CONTROL - FAN ECM				X			X	COV	ALARM ON FAILURE	
TCV-01	CONTROL VALVE - COOLING COIL				X						
TCV-02	CONTROL VALVE - HEATING COIL				X						
LD-01	LEAK DETECTOR	X								ALARM	
	TT-01 SPACE TEMPERATURE			X				X	1:00		
	TT-02 DISCHARGE			X				X	1:00		

5 FAN COIL UNIT W/REHEAT TYPICAL



NOTE:

1. REFER TO MECHANICAL PLANS FOR QUANTITIES AND LOCATIONS OF AREAS SERVED.
2. MINIMUM VFD INFORMATION AVAILABLE AT THE BMS:
ENABLE / DISABLE
RUN STATUS
SPEED CONTROL
SPEED FEEDBACK
FAULT ALARM

GENERAL EXHAUST FAN - POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
SPT-01	STATIC PRESSURE TRANSMITTER - EXHAUST AIR			X				X	1:00		MOUNTED 2/3 UPSTREAM
PSH-01	PRESSURE SWITCH HIGH - EF DISCHARGE	X						X	COV	ALARM	
SS-01	START/STOP - EF VFD		X				X				VFD INTEGRATION
ST-01	STATUS - EF VFD	X					X	X	COV	ALARM ON FAILURE	VFD INTEGRATION
FSC-01	FAN SPEED CONTROL - EF VFD				X	X					VFD INTEGRATION
FBK-01	FEEDBACK - EF VFD			X		X		X	1:00		VFD INTEGRATION
CA-01	COMMON ALARM - EF VFD	X					X	X	COV	ALARM	VFD INTEGRATION

4 GENERAL EXHAUST FAN TYPICAL

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
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MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

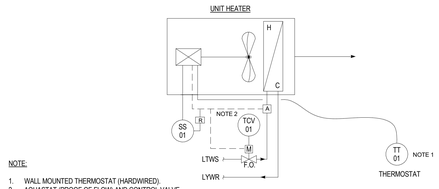
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

MECHANICAL M&V SYSTEM

DRAWN BY: **KK** CHECKED BY: **TG**

SHEET NUMBER **M5.1.04**

VOLUME: **2**



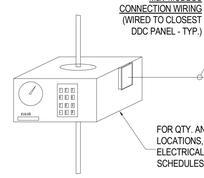
NOTE:

1. WALL MOUNTED THERMOSTAT (HARDWIRED).
2. AQUASTAT (PROOF OF FLOW) AND CONTROL VALVE.

UNIT HEATER (LTW) - POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
SS-XX	START/STOP		X								
TCV-01	CONTROL VALVE - HEATING COIL				X						

1 UNIT HEATER (LTW)
TYPICAL



M&V MODBUS CONNECTION WIRING (WIRED TO CLOSEST DDC PANEL - TYP.)

FOR QTY. AND LOCATIONS, REFER TO ELECTRICAL PLANS ANS SCHEDULES.

MINIMUM MONITORED SIGNALS (EACH):

- AMPERAGE
- VOLTAGE
- KVA
- KW
- PF
- KVAR
- ELECTRIC METER STATUS (COMMON ALARM)

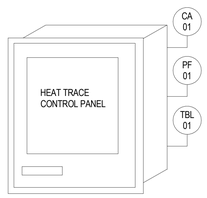
NOTE:

1. M&V CONTRACTOR SHALL PROVIDE ALL COMMUNICATION WIRING FOR ELECTRICAL METER MONITORING.
2. M&V CONTRACTOR SHALL COORDINATE FINAL COMMUNICATION PROTOCOL SELECTION WITH ELECTRICAL CONTRACTOR.

ELECTRICAL METER - POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
	AMPERAGE					X		X	1:00		MODBUS
	VOLTAGE					X		X	1:00		MODBUS
	KVA					X		X	1:00		MODBUS
	KW					X		X	1:00		MODBUS
	POWER FACTOR					X		X	1:00		MODBUS
	KVAR					X		X	1:00		MODBUS
	COMMON ALARM						X	X	COV		MODBUS

2 ELECTRICAL METER - MONITORING
TYPICAL FOR EACH TENANT



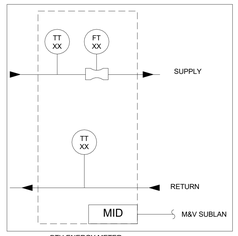
NOTE:

1. HEAT TRACE CONTRACTOR SYSTEM MONITORING PANEL (TYP.).
2. FOR QUANTITIES AND LOCATIONS, REFERENCE PLUMBING PLANS.

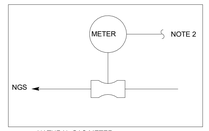
POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
CA-01	COMMON ALARM - HEAT TRACE	X						X	COV		
PF-01	POWER FAILURE - HEAT TRACE	X						X	COV		
TBL-01	TROUBLE - HEAT TRACE	X						X	COV		

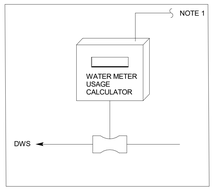
4 HEAT TRACE MONITORING
TYPICAL FOR EACH HEAT TRACE CONTROL PANEL



BTU ENERGY METER



NATURAL GAS METER



DOMESTIC WATER METER

NOTES:

1. TENANT DOMESTIC WATER UTILITY METERS TO PROVIDE A PULSE OUTPUT, M&V TO INTERFACE TO METERS FOR DOMESTIC WATER USAGE TOTALIZATION (GPM).
2. M&V TO INTERFACE TO TENANT NATURAL GAS UTILITY METERS (PULSE OUTPUT), IF APPLICABLE FOR INDIVIDUAL TENANT.
3. WATER AND GAS USAGE TO BE TRENDED IN MONTHLY REPORTS BY THE M&V SERVER FOR LEED ENERGY REPORTING AS WELL AS INDIVIDUAL TENANT BILLING.
4. REFER TO PLUMBING AND CIVIL DRAWINGS/SCHEDULES FOR METER QUANTITIES AND LOCATIONS.
5. BTU ENERGY METERS FOR CONDENSER AND CHILLED WATER USAGE TO BE INTEGRATED WITH M&V FOR LEED ENERGY REPORTING. CHILLED WATER USAGE SHALL BE TRENDED IN MONTHLY REPORTS ON A TENANT BY TENANT BASIS AND SENT TO OWNER FOR BILLING PURPOSES.

MISCELLANEOUS MONITORING - POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
FM-01	DOMESTIC WATER USAGE-GPM	X						X	15 MIN	PULSE OUTPUT	TOTALIZE USAGE
FM-02	NATURAL GAS USAGE-(IF PRESENT)	X						X	15 MIN	PULSE OUTPUT	TOTALIZE USAGE

3 MISCELLANEOUS ENERGY MONITORING
TYPICAL FOR TENANT/UTILITY METERS

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE **60% DESIGN**
PACKAGE ISSUE DATE **03/24/2023**
PHASE **DD**
REVISION **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE **C.O.C.A.002.01**

MECHANICAL M&V SYSTEM

DRAWN BY: **KK** CHECKED BY: **TG**
SHEET NUMBER **M5.1.05** VOLUME: **2**

3/19/2023 8:55:24 PM

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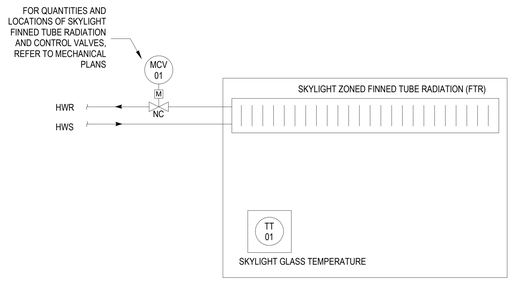


NOTES:
1. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATION OF FIN TUBE RADIATORS SERVING SKYLIGHT.
2. FTR VALVES TO FAIL OPEN

SKYLIGHT FTR SEQUENCE OF OPERATIONS:

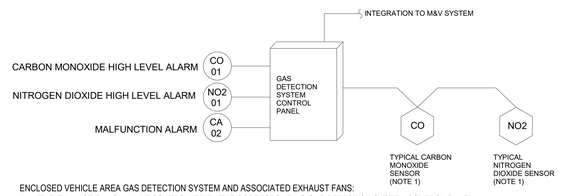
A. GENERAL:
1. SKYLIGHT GLASS TEMPERATURE AT EACH ZONE SHALL BE MAINTAINED AT SETPOINTS (ADJ.). PROVIDE GLOBAL SETPOINT ADJUSTMENT VIA M&V WORKSTATION FOR THE FTR GROUPED BY ZONE.
2. TIME-OF-DAY SCHEDULE: HVAC SYSTEMS WILL OPERATE AUTOMATICALLY BY A TIME SIGNAL FROM THE MANAGEMENT AND VERIFICATION SYSTEM (M&V). OCCUPIED/UNOCCUPIED ADJUSTABLE TIME DURATIONS SHALL BE SET AT THE M&V WORKSTATION BUT BE RESIDENT IN THE LOCAL UNITARY CONTROLLER (UC) FOR OPERATION.

B. HEATING MODE: THE M&V SYSTEM SHALL ENABLE FIN TUBE RADIATION SERVING SKYLIGHT IN A ZONE-BY ZONE BASIS. WHEN ENABLED, THE MODULATING CONTROL VALVES SERVING EACH SECTION OF SKYLIGHT FIN TUBE SHALL MODULATE TO MEET THE ZONE SPACE TEMPERATURE SETPOINT.

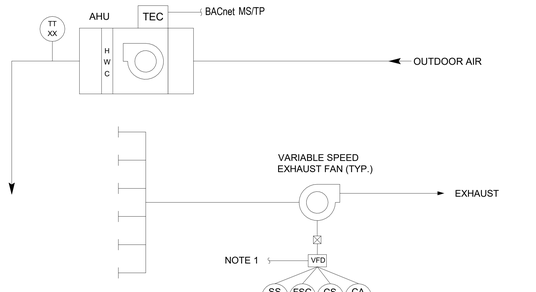
POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
TT-01	TEMPERATURE TRANSMITTER - SKYLIGHT			X				X	1:00		
MCV-01	MODULATING CONTROL VALVE - HWR				X						

1 SKYLIGHT FIN TUBE RADIATORS-CONTROL DETAIL TYPICAL



ENCLOSED VEHICLE AREA GAS DETECTION SYSTEM AND ASSOCIATED EXHAUST FANS:
1. THE EXHAUST FAN SHALL BE CONTROLLED BY THE CORRESPONDING GAS DETECTION SYSTEM CONTROL PANEL.
2. GAS DETECTION SYSTEM AND ALARMING SYSTEM SHALL BE CONTINUOUSLY ACTIVE.
3. DURING NORMAL OPERATION AREA SHALL BE SERVED BY A HEATING AND COOLING AHU UNIT TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT.
4. OPEN SENSING A LEVEL OF CARBON MONOXIDE (CO) GREATER THAN OR EQUAL TO 25 PPM (ADJ.) THE GAS DETECTION SYSTEM SHALL SIGNAL THE M&V SYSTEM TO START THE ASSOCIATED EXHAUST FANS AND RAMP UP IN SPEED TO MAINTAIN A CO LEVEL OF 15 PPM OR LESS (ADJUSTABLE). THE FAN SHALL REMAIN RUNNING AT 20 %SPEED AT ALL TIME. THE AHU SHALL MODULATE TO FULL SPEED TO PROVIDE MAKE-UP AIR. LOCAL ALARM AND STROBE SHALL ACTIVATE WHEN CO LEVELS EXCEED 50 PPM (ADJUSTABLE) , AN ALARM SHALL ALSO BE ANNUNCIATED AT THE OPERATOR'S WORKSTATION.
5. UPON SENSING A LEVEL OF NITROGEN DIOXIDE (NO2) GREATER THAN OR EQUAL TO 5PPM (ADJUSTABLE) THE GAS DETECTION SYSTEM SHALL SIGNAL THE M&V SYSTEM TO START THE ASSOCIATED EXHAUST FANS AND RAMP UP IN SPEED TO MAINTAIN A LEVEL OF 0.5 PPM (ADJUSTABLE). THE FAN SHALL REMAIN RUNNING AT 20% SPEED AT ALL TIME. THE AHU SHALL MODULATE TO FULL SPEED TO PROVIDE MAKE-UP AIR. LOCAL ALARM AND STROBE SHALL ACTIVATE WHEN COL LEVELS EXCEED 5 PPM (ADJUSTABLE) , AN ALARM SHALL ALSO BE ANNUNCIATED AT THE OPERATOR'S WORKSTATION.
6. EXHAUST FAN AND AHU SHALL BE CAPABLE OF SHUTDOWN VIA THE FIRE ALARM SYSTEM.

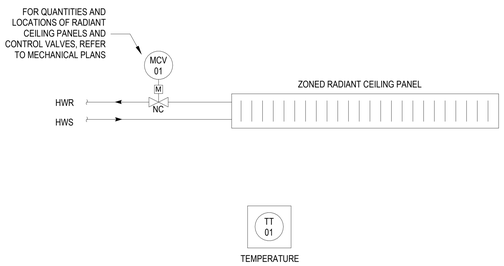


NOTES:
1. REFER TO MECHANICAL PLANS FOR QUANTITY AND LOCATION.
2. EXHAUST FAN VFD TO BE INTEGRATED TO M&V SYSTEM.

GAS DETECTION SYSTEM W/EXHAUST FAN- POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
SS-01	START/STOP - EXHAUST FAN		X			X					VFD INTEGRATION
CA-01	COMMON ALARM - EXHAUST FAN	X				X		X	COV	ALARM ON FAILURE	VFD INTEGRATION
CS-01	STATUS - EXHAUST FAN			X		X		X	COV	ALARM ON FAILURE	
FSC-01	FAN SPEED CONTROL - EXHAUST FAN		X			X					VFD INTEGRATION
CO-01	HIGH LEVEL ALARM -CARBON MONOXIDE	X						X	COV		
NO2-01	HIGH LEVEL ALARM -NITROGEN DIOXIDE	X						X	COV		
CA-02	COMMON ALARM -GAS DETECTION SYSTEM MALFUNCTION	X							COV	ALARM ON FAILURE	

2 ENCLOSED VEHICLE AREA GAS DETECTION SYSTEM (HEATING AHU & EXHAUST FAN) TYPICAL FOR BHS BAG MAKE-UP AREA



NOTES:
1. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATION.
2. VALVES TO FAIL OPEN

SKYLIGHT FTR SEQUENCE OF OPERATIONS:

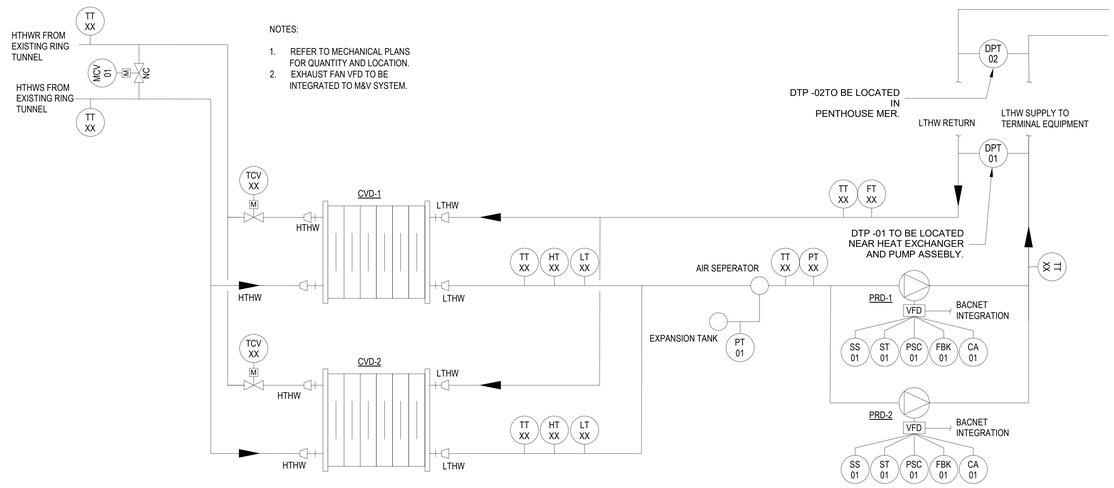
A. GENERAL:
1. TEMPERATURE AT EACH ZONE SHALL BE MAINTAINED AT SETPOINTS (ADJ). PROVIDE GLOBAL SETPOINT ADJUSTMENT VIA M&V WORKSTATION FOR THE CEILING PANELS GROUPED BY ZONE.
2. TIME-OF-DAY SCHEDULE: HVAC SYSTEMS WILL OPERATE AUTOMATICALLY BY A TIME SIGNAL FROM THE MANAGEMENT AND VERIFICATION SYSTEM (M&V). OCCUPIED/UNOCCUPIED ADJUSTABLE TIME DURATIONS SHALL BE SET AT THE M&V WORKSTATION BUT BE RESIDENT IN THE LOCAL UNITARY CONTROLLER (UC) FOR OPERATION.

B. HEATING MODE: THE M&V SYSTEM SHALL ENABLE RADIANT CEILING PANEL IN A ZONE-BY ZONE BASIS. WHEN ENABLED, THE MODULATING CONTROL VALVES SERVING EACH SECTION SHALL MODULATE TO MEET THE ZONE SPACE TEMPERATURE SETPOINT.

POINTS LIST

ID NO.	CONTROL POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS					NOTES
		DI	DO	AI	AO	AV	DV	TREND	INTERVAL	DESCRIPTION	
TT-01	TEMPERATURE TRANSMITTER			X				X	1:00		
MCV-01	MODULATING CONTROL VALVE - HWR				X						

3 RADIANT CEILING PANEL TYPICAL



NOTES:
1. REFER TO MECHANICAL PLANS FOR QUANTITY AND LOCATION.
2. EXHAUST FAN VFD TO BE INTEGRATED TO M&V SYSTEM.

NOTES:

A. PROVIDE NEW HOT WATER CONTROL VALVES AND NEW ELECTRONIC ACTUATORS RATED FOR 410F WATER TEMPERATURE, 600 PSI BODY RATING AND 300PSI SHUFT OFF PRESSURE TO BE FISHER 667-ES.

4 HIGH TEMPERATURE HEATING HOT WATER HEAT EXCHANGER AND PUMPS

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
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NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

MECHANICAL M&V SYSTEM

DRAWN BY: **KK**
CHECKED BY: **TG**
SHEET NUMBER
VOLUME: **2**

M5.1.06

3/19/2023 8:55:35 PM

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GENERAL NOTE:

EXISTING SYSTEMS AND CONNECTIONS SHOWN ARE BASED ON THE BEST AVAILABLE AS-BUILT DOCUMENTATION AND CASUAL FIELD OBSERVATIONS AT THE TIME OF DESIGN. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SURVEY OF THE EXISTING CONDITIONS TO VERIFY ALL EXISTING SYSTEMS, CONNECTIONS, AND EXTENSIONS BACK TO THE SOURCE AND PROVIDE A REPORT THAT DOCUMENTS THE DETAILS OF THE EXISTING FIELD CONDITIONS AS WELL AS ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING FIELD CONDITIONS TO THE ENGINEER AND COMMISSIONER PRIOR TO DISTURBING THE EXISTING INSTALLATION. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN.

EXISTING TO REMAIN AIR HANDLING UNIT SCHEDULE 8A & 8B

MARK	LOCATION	AREA SERVED	CFM
AHU-8A-S1/2	BLDG 8A P.H.	MEZZ LEVEL 2-4 / 8A-8B, MEZZ LEVEL 4-5 / 8A-8G	36800 CFM
AHU-8A-S3	BLDG 8A P.H.	MEZZ LEVEL 2-3 / 8A-8G	36800 CFM
AHU-8A-S4	BLDG 8A P.H.	MEZZ LEVEL 4-5 / 8G-8M	26790 CFM
AHU-8A-S5	BLDG 8A P.H.	MEZZ LEVEL 2-3 / 8G-8M, MEZZ LEVEL 3-4 / 8M-8N	36800 CFM
AHU-8A-S6	BLDG 8A P.H.	MEZZ LEVEL 3-4 / 8B-8G, UPPER LEVEL 3-4 / 8B-8G	14400 CFM
AHU-8A-S7	BLDG 8A P.H.	MEZZ LEVEL 3-4 / 8H-8M, UPPER LEVEL 3-4 / 8H-8M	15420 CFM
AHU-8A-S8	BLDG 8A P.H.	LOWER LEVEL 2-4 / 8B-8H	24180 CFM
AHU-8A-S9	BLDG 8A P.H.	LOWER LEVEL 2-4 / 8H-8N	25680 CFM
AHU-8A-S10	BLDG 8A P.H.	BASEMENT LEVEL 3-4 / 8B-8H	12000 CFM
AHU-8A-S11	BLDG 8A P.H.	BASEMENT LEVEL 3-4 / 8G-8M	13600 CFM
AHU-8B-S1	BLDG 8B P.H.	MEZZ LEVEL 2-3 / 8M-8Q, MEZZ LEVEL 4-5 / 8M-8P	19100 CFM
AHU-8B-S2	BLDG 8B P.H.	MEZZ LEVEL 2-3 / 8Q-8T	25300 CFM
AHU-8B-S3	BLDG 8B P.H.	MEZZ LEVEL 4-5 / 8P-8U	22800 CFM
AHU-8B-S4	BLDG 8B P.H.	MEZZ LEVEL 2-3 / 8T-8Z	24880 CFM
AHU-8B-S5/6	BLDG 8B P.H.	MEZZ LEVEL 2-4 / 8Y-8Z , MEZZ LEVEL 4-5 / 8U-8Z	25115 CFM
AHU-8B-S7	BLDG 8B P.H.	MEZZ LEVEL 3-4 / 8N-8S, UPPER LEVEL 3-4 / 8N-8S	14650 CFM
AHU-8B-S8	BLDG 8B P.H.	MEZZ LEVEL 3-4 / 8T-8Y, UPPER LEVEL 3-4 / 8T-8Y	14650 CFM
AHU-8B-S9	BLDG 8B P.H.	LOWER LEVEL 2-4 / 8N-8U	25340 CFM
AHU-8B-S10	BLDG 8B P.H.	LOWER LEVEL 2-4 / 8N-8T	24920 CFM
AHU-8B-S11	BLDG 8B P.H.	BASEMENT LEVEL 3-4 / 8N-8T	12300 CFM
AHU-8B-S12	BLDG 8B P.H.	BASEMENT LEVEL 3-4 / 8S-8Y	15000 CFM

EXISTING TO REMAIN AIR HANDLING UNIT SCHEDULE 8C

MARK	LOCATION	AREA SERVED	CFM
S-D-1	BLDG 8C P.H.	UPPER LEVEL 4-5 / 8Z-8FF	24000 CFM
S-D-2	BLDG 8C P.H.	UPPER LEVEL 2-3 / 8Z-8JJ	28800 CFM
S-D-9	BLDG 8C P.H.	BASEMENT LEVEL 4-5 / 8AA-8GG	6500 CFM
S-D-10	BLDG 8C P.H.	BASEMENT LEVEL 3-5 / 8GG-8KK	6730 CFM

DEMOLISHED AIR HANDLING UNIT SCHEDULE 8C

MARK	LOCATION	AREA SERVED	CFM
S-D-3	BLDG 8C P.H.	UPPER LEVEL 4-5 / 8FF-8KK	24520 CFM
S-D-4	BLDG 8C P.H.	UPPER LEVEL 2-5 / 8HH-8LL	21000 CFM
S-D-5	BLDG 8C P.H.	UPPER LEVEL 3-4 / 8HH-8KK AND MEZZ LEVEL 3-4 / 8AA-8KK	21810 CFM
S-D-6	BLDG 8C P.H.	LOWER LEVEL 2-5 / 8Y-8GG	21000 CFM
S-D-7	BLDG 8C P.H.	LOWER LEVEL 2-4 / 8EE-8LL	17680 CFM
S-D-8	BLDG 8C P.H.	LOWER LEVEL 4-5 / 8Y-8LL	15300 CFM

DEMOLISHED HEAT AND VENTILATION UNIT SCHEDULE

MARK	LOCATION	AREA SERVED
AHU-SA-13	PENTHOUSE A	BAG ALLEY
AHU-SL-7	CONCOURSE L PENTHOUSE	BHS

NEW RETURN FAN SCHEDULE

MARK	LOCATION	SERVICE	ESP	RPM	HP	Voltage	PhaseElec	FreqElec	Drive	PERFORMANCE DATA CFM	MANUFACTURER & MODEL	Notes
RF-3	BLDG 8C P.H.	UPPER LEVEL 4-5 / 8FF-8KK	1.25 in-wg	1709	15	460 V	3	60 Hz	MIXED FLOW	20000	GREENHECK - QEID-27	1 THRU 9
RF-4	BLDG 8C P.H.	UPPER LEVEL 2-5 / 8HH-8LL	1.25 in-wg	1709	15	460 V	3	60 Hz	MIXED FLOW	20000	GREENHECK - QEID-27	1 THRU 9
RF-5	BLDG 8C P.H.	UPPER LEVEL 3-4 / 8HH-8KK AND MEZZ LEVEL 3-4 / 8AA-8KK	1.25 in-wg	1709	15	460 V	3	60 Hz	MIXED FLOW	20000	GREENHECK - QEID-27	1 THRU 9
RF-6	BLDG 8C P.H.	LOWER LEVEL 2-5 / 8Y-8GG	1.25 in-wg	1709	15	460 V	3	60 Hz	MIXED FLOW	20000	GREENHECK - QEID-27	1 THRU 9
EF-SL-7	PENTHOUSE L-STINGER	LOWER - L-STINGER	0.00 in-wg	1316	5	480 V	3	60 Hz	DIRECT DRIVE	12000	GREENHECK - QEID-24	
EF-UL-1	UPPER GATE	GATE PRESSURIZATION	0.50 in-wg	1513	0	120 V	1	60 Hz	DIRECT DRIVE	1000	GREENHECK - SQ-100-VG	
EF-UL-2	UPPER GATE	GATE PRESSURIZATION	0.50 in-wg	1513	0	120 V	1	60 Hz	DIRECT DRIVE	1000	GREENHECK - SQ-100-VG	

NEW EXHAUST FAN SCHEDULE

MARK	LOCATION	SERVICE	ESP	RPM	HP	Voltage	PhaseElec	FreqElec	Drive	PERFORMANCE DATA CFM	MANUFACTURER & MODEL	Notes
TEF-1	PENTHOUSE A	LOWER, UPPER & MEZZ RESTROOMS	1.75 in-wg	1295	5.00	460 V	3	60 Hz	DIRECT DRIVE	8000	GREENHECK - SQ-22	
TEF-2	PENTHOUSE C	UPPER & MEZZ RESTROOMS	1.75 in-wg	1457	5.00	460 V	3	60 Hz	DIRECT DRIVE	10200	GREENHECK - SQ-22	
TEF-3	PENTHOUSE B	LOWER, UPPER & MEZZ RESTROOMS	1.75 in-wg	1281	5.00	460 V	3	60 Hz	DIRECT DRIVE	7800	GREENHECK - SQ-22	
EF-BM1	LOWER LEVEL	LOWER LEVEL EAST BAGROOM	1.50 in-wg	1768	15.00	480 V	3	60 Hz	DIRECT DRIVE	25500	GREENHECK - AX-90	
EF-BM2	LOWER LEVEL	LOWER LEVEL EAST BAGROOM	1.50 in-wg	1768	15.00	480 V	3	60 Hz	DIRECT DRIVE	25500	GREENHECK - AX-90	
EF-SL-7	PENTHOUSE L-STINGER	LOWER - L-STINGER	0.00 in-wg	1316	5.00	480 V	3	60 Hz	DIRECT DRIVE	12000	GREENHECK - QEID-24	
EF-UL-1	UPPER GATE	GATE PRESSURIZATION	0.50 in-wg	1513	0.25	120 V	1	60 Hz	DIRECT DRIVE	1000	GREENHECK - SQ-100-VG	
EF-UL-2	UPPER GATE	GATE PRESSURIZATION	0.50 in-wg	1513	0.25	120 V	1	60 Hz	DIRECT DRIVE	1000	GREENHECK - SQ-100-VG	

NEW AIR HANDLING UNIT SCHEDULE - HOT WATER HEATING AND VENTILATION ONLY

MARK	AREA SERVED	LOCATION	SYSTEM MIN. OA (CFM)	HEATING COIL DATA: MAX. FACE VELOCITY (FPM)	MIN. NO. ROWS	FINS PER INCH	AIR SIDE DATA: CAPACITY (MBH)	EDBT (°F)	LDBT (°F)	PD (IN WC)	WATER SIDE DATA: EWT (°F)	LWT (°F)	FLOW (GPM)	PD (FT) (FT H2O)	FAN DATA: UNIT CFM	NO. OF FAN	ESP (IN WC)	TSP (IN WC)	RPM	HP (EA)	DRIVE TYPE	MOTOR DATA (TOTAL): V	PH	FREQ (HZ)	FLA (EA)	PREFILTER: THICK	MAX FACE VELOCITY (FPM)	MERV	FINAL FILTER: THICK	MAX FACE VELOCITY (FPM)	MERV	ELECTRICAL DATA: V	PH	FREQ (HZ)	FLA	MCA	MOCP	PHYSICAL DATA: LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER	MODEL	NOTES
AHU-1-LL	LOWER LEVEL EAST BAGROOM	LOWER LEVEL	25000	524	3	6	2160.0	-10 °F	70.00 °F	0.25 in-wg	210 °F	180 °F	144.0	7.52	25000	6	1.50	4.50	3862	4.5	DIRECT	460	3	60	5.7	2 INCH	500	8	12 INCH	500	13	460	3	60	39.0	41.0	45.0	14' - 11"	11' - 5"	6' - 4"	10510.00	NORTEK	CSU-25K HW	
AHU-2-LL	LOWER LEVEL EAST BAGROOM	LOWER LEVEL	25000	524	3	6	2160.0	-10 °F	70.00 °F	0.25 in-wg	210 °F	180 °F	144.0	7.52	25000	6	1.50	4.50	3862	4.5	DIRECT	460	3	60	5.7	2 INCH	500	8	12 INCH	500	13	460	3	60	39.0	41.0	45.0	14' - 11"	11' - 5"	6' - 4"	10510.00	NORTEK	CSU-25K HW	
AHU-8A-S13	WEST END BAG ALLEY	PENTHOUSE	12000	569	3	6	1036.8	-10 °F	70.00 °F	0.25 in-wg	210 °F	180 °F	69.0	7.52	12000	4	2.50	4.53	3965	4.0	DIRECT	460	3	60	4.8	2 INCH	500	8	12 INCH	500	13	460	3	60	21.0	23.0	25.0	14' - 11"	6' - 4"	5' - 10"	6510.00	NORTEK	CSU-12K HW	
AHU-SL-7	BAG ROOM L-STINGER	PENTHOUSE	25000	524	3	6	2160.0	-10 °F	70.00 °F	0.25 in-wg	210 °F	180 °F	144.0	7.52	25000	6	1.50	4.50	3862	4.5	DIRECT	460	3	60	5.7	2 INCH	500	8	12 INCH	500	13	460	3	60	39.0	41.0	45.0	14' - 11"	11' - 5"	6' - 4"	10510.00	NORTEK	CSU-25K HW	

UNIT HEATER SCHEDULE - HOT WATER

MARK	SERVICE	LOCATION	TYPE	MOUNTING HEIGHT (FT)	FAN DATA: CFM	RPM	TYPE	MOTOR DATA: HP	V	PH	FREQ (HZ)	COIL DATA: CAPACITY (MBH)	AIR DATA: EDBT (°F)	LDBT (°F)	WATER DATA: GPM	PD (FT)	EWT (°F)	LWT (°F)	ELECTRICAL DATA: V	PH	FREQ (HZ)	MOT OR	AMPS	OPERATING WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	MODEL	NOTES
UH-01	INBOUND BAGROOM	INBOUND BAGROOM	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	
UH-02	INBOUND BAGROOM	INBOUND BAGROOM	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	
UH-03	INBOUND BAGROOM	INBOUND BAGROOM	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	
UH-04	INBOUND BAGROOM	INBOUND BAGROOM	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	
UH-05	OUTBOUND BAGGAGE	OUTBOUND BAGGAGE	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	
UH-06	OUTBOUND BAGGAGE	OUTBOUND BAGGAGE	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	
UH-07	OUTBOUND BAGGAGE	OUTBOUND BAGGAGE	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	
UH-08	OUTBOUND BAGGAGE	OUTBOUND BAGGAGE	VERTICAL AIRFLOW, FIXED DISCHARGE	12' - 0"	1400	1725	AXIAL	0.250	208	3	60	62.2	60	101	12.6	1.90	210	200	208	3	60	0.25	1.7	101	LJ WING	HFC- TYPE 5F&5R	

ROOFTOP AIR HANDLING UNIT SCHEDULE - CHILLED WATER / HOT WATER

MARK	AREA SERVED	LOCATION	SYSTEM MIN. OA (CFM)	HEATING COIL DATA: MAX. FACE VELOCITY (FPM)	AIR SIDE DATA: CAPACITY (MBH)	EDBT (°F)	LDBT (°F)	PD (IN WC)	WATER SIDE DATA: EWT (°F)	LWT (°F)	FLOW (GPM)	PD (FT H2O)	FAN DATA: UNIT CFM	NO. OF FAN	ESP (IN WC)	TSP (IN WC)	RPM	DRIVE TYPE	COOLING COIL DATA: CAPACITY (MBH) TOTAL	SENSIBLE	AIR SIDE DATA: EDBT (°F)	LDBT (°F)	EWBT (°F)	LWBT (°F)	WATER SIDE DATA: FLOW (GPM)	PD (FT H2O)	EWT (°F)	LWT (°F)	MAX. FACE VELOCITY (FPM)	SUPPLY FAN ELECTRICAL DATA: V	PH	FREQ (HZ)	FLA	MCA	MOCP	HP	RETURN FAN ELECTRICAL DATA: V	PH	FREQ (HZ)	FLA	MCA	MOCP	HP	PHYSICAL DATA: LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER	MODEL	NOTES
RTU-1	CONCESSION	UPPER FLOOR ROOF	1500	401	181.7	43	75	0.04	210	180	13	1.81	5000	1	2.00	4.45	3166	DIRECT	205.7	148.5	81	53	67	53	26	6.28	43	59	365	460	3	60	7.0	9.0	15.0	6.0	460	3	60	4	5	10	3	17' - 4"	9' - 4"	6' - 2"	10028.00	NORTEK	CSU-5K HW/CHW	
RTU-2	CONCESSION	UPPER FLOOR ROOF	1500	401	181.7	43	75	0.04	210	180	13	1.81	5000	1	2.00	4.45	3166	DIRECT	205.7	148.5	81	53	67	53	26	6.28	43	59	365	460	3	60	7.0	9.0	15.0	6.0	460	3	60	4	5	10	3	17' - 4"	9' - 4"	6' - 2"	10028.00	NORTEK	CSU-5K HW/CHW	
RTU-3	HOLDROOM	UPPER FLOOR ROOF	1500	401	181.7	43	75	0.04	210	180	13	1.81	5000	1	2.00	4.45	3166	DIRECT	205.7	148.5	81	53	67	53	26	6.28	43	59	365	460	3	60	7.0	9.0	15.0	6.0	460	3	60	4	5	10	3	17' - 4"	9' - 4"	6' - 2"	10028.00	NORTEK	CSU-5K HW/CHW	
RTU-4	HOLDROOM	UPPER FLOOR ROOF	1500	401	181.7	43	75	0.04	210	180	13	1.81	5000	1	2.00	4.45	3166	DIRECT	205.7	148.5	81	53	67	53	26	6.28	43	59	365	460	3	60	7.0	9.0	15.0	6.0	460	3	60	4	5	10	3	17' - 4"	9' - 4"	6' - 2"	10028.00	NORTEK	CSU-5K HW/CHW	
RTU-5	AIRLINE CLUB	UPPER FLOOR ROOF	1500	401	181.7	43	75	0.04	210	180	13	1.81	5500	1	2.00	4.45	3166	DIRECT	205.7	148.5	81	53	67	53	26	6.28	43	59	365	460	3	60	7.0	9.0	15.0	6.0	460	3	60	4	5	10	3	17' - 4"	9' - 4"	6' - 2"	10028.00	NORTEK	CSU-5K HW/CHW	
RTU-6	AIRLINE CLUB	UPPER FLOOR ROOF	1500	401	181.7	43	75	0.04	210	180	13	1.81	5500	1	2.00	4.45	3166	DIRECT	205.7	148.5	81	53	67	53	26	6.28	43	59	365	460	3	60	7.0	9.0	15.0	6.0	460	3	60	4	5	10	3	17' - 4"	9' - 4"	6' - 2"	10028.00	NORTEK	CSU-5K HW/CHW	

FUTURE MAKE-UP AIR SYSTEM UNIT SCHEDULE - CHILLED WATER / HOT WATER (PROVIDED BY TENANT)

MARK	AREA SERVED	LOCATION	CONFIGURATION	HEATING COIL DATA (PRE-HEAT): MAX. FACE VELOCITY (FPM)	MIN. NO. ROWS	FINS PER INCH	AIR SIDE DATA: CAPACITY (BTU/H)	EDBT (°F)	LDBT (°F)	PD (IN WC)	WATER SIDE DATA: EWT (°F)	LWT (°F)	FLOW (GPM)	PD (FT HD) (FT H2O)	SUPPLY FAN DATA: UNIT CFM	ESP (IN WC)	TSP (IN WC)	MAX. RPM	MIN. BHP	FAN TYPE	BLADE TYPE / CLASS	MOTOR DATA (EACH): QTY.	HP	V	PH	FREQ (HZ)	COOLING COIL DATA: CAPACITY: TOTAL (BTU/H)	SENSIBLE (BTU/H)	AIR SIDE DATA: COIL PD	EDBT (°F)	LDBT (°F)	EWBT (°F)	LWBT (°F)	WATER SIDE DATA: FLOW (GPM)	PD (FT HD) (FT H2O)	EWT (°F)	LWT (°F)	MIN. NO. ROWS	FINS PER INCH	CHW CONTROL VALVE TYPE	MAX. FACE VELOCITY	ELECTRICAL DATA: V	PH	FREQ (HZ)	FLA	MCA	MOCP	PHYSICAL DATA: LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER	MODEL	NOTES
MAU 1	CONCESSIONS	MEZZANINE LEVEL ROOF	INLINE HORIZONTAL	375 FPM	2	8	653204	-10 °F	89.6 °F	0.10 in-wg	200 °F	180.1 °F	65.6 GPM	14.40	6000 CFM	5.50 in-wg	6.74 in-wg	3909	5.5	CENTRIFUGAL - PLENUM	AIRFOIL / 2	2	15.0	460	3	60	466315	284093	0.55 in-wg	95 °F	51.7 °F	75 °F	51.5 °F	58.3 GPM	10.30	42 °F	58 °F	8	9	THREADED	358 FPM	460	3	60	17.8	40.0	50.0	20' - 8"	6' - 8"	3' - 10"	4292.00	DAIKIN	CAH018GDGM	
MAU 2	CONCESSIONS	MEZZANINE LEVEL ROOF	INLINE HORIZONTAL	375 FPM	2	8	653204	-10 °F	89.6 °F	0.10 in-wg	200 °F	180.1 °F	65.6 GPM	14.40	6000 CFM	5.50 in-wg	6.74 in-wg	3909	5.5	CENTRIFUGAL - PLENUM	AIRFOIL / 2	2	15.0	460	3	60	466315	284093	0.55 in-wg	95 °F	51.7 °F	75 °F	51.5 °F	58.3 GPM	10.30	42 °F	58 °F	8	9	THREADED	358 FPM	460	3	60	17.8	40.0	50.0	20' - 8"	6' - 8"	3' - 10"	4292.00	DAIKIN	CAH018GDGM	
MAU 3	CONCESSIONS	MEZZANINE LEVEL ROOF	INLINE HORIZONTAL	375 FPM	2	8	653204	-10 °F	89.6 °F	0.10 in-wg	200 °F	180.1 °F	65.6 GPM	14.40	6000 CFM	5.50 in-wg	6.74 in-wg	3909	5.5	CENTRIFUGAL - PLENUM	AIRFOIL / 2	2	15.0	460	3	60	466315	284093	0.55 in-wg	95 °F	51.7 °F	75 °F	51.5 °F	58.3 GPM	10.30	42 °F	58 °F	8	9	THREADED	358 FPM	460	3	60	17.8	40.0	50.0	20' - 8"	6' - 8"	3' - 10"	4292.00	DAIKIN	CAH018GDGM	
MAU 4	CONCESSIONS	MEZZANINE LEVEL ROOF	INLINE HORIZONTAL	375 FPM	2	8	653204	-10 °F	89.6 °F	0.10 in-wg	200 °F	180.1 °F	65.6 GPM	14.40	6000 CFM	5.50 in-wg	6.74 in-wg	3909	5.5	CENTRIFUGAL - PLENUM	AIRFOIL / 2	2	15.0	460	3	60	466315	284093	0.55 in-wg	95 °F	51.7 °F	75 °F	51.5 °F	58.3 GPM	10.30	42 °F	58 °F	8	9	THREADED	358 FPM	460	3	60	17.8	40.0	50.0	20' - 8"	6' - 8"	3' - 10"	4292.00	DAIKIN	CAH018GDGM	
MAU 5	CONCESSIONS	MEZZANINE LEVEL ROOF	INLINE HORIZONTAL	375 FPM	2	8	653204	-10 °F	89.6 °F	0.10 in-wg	200 °F	180.1 °F	65.6 GPM	14.40	6000 CFM	5.50 in-wg	6.74 in-wg	3909	5.5	CENTRIFUGAL - PLENUM	AIRFOIL / 2	2	15.0	460	3	60	466315	284093	0.55 in-wg	95 °F	51.7 °F	75 °F	51.5 °F	58.3 GPM	10.30	42 °F	58 °F	8	9	THREADED	358 FPM	460	3	60	17.8	40.0	50.0	20' - 8"	6' - 8"	3' - 10"	4292.00	DAIKIN	CAH018GDGM	

FAN COIL UNIT SCHEDULE - CHILLED WATER / HOT WATER

MARK	AREA SERVED	LOCATION	CONFIGURATION	FAN DATA: NOMINAL CFM	ESP (IN WC)	RPM	HP	MOTOR DATA: V	PH	FREQ (HZ)	MCA	MOCP	COOLING COIL DATA: CAPACITY (MBH) TOTAL	SENSIBLE	AIR SIDE DATA: EDBT (°F)	LDBT (°F)	EWBT (°F)	LWBT (°F)	WATER SIDE DATA: FLOW (GPM)	PD (FT H2O)	EWT (°F)	LWT (°F)	HEATING COIL DATA: CAPACITY (MBH)	AIR SIDE DATA: EDBT (°F)	LDBT (°F)	WATER SIDE DATA: FLOW (GPM)	PD (FT H2O)	EWT (°F)	LWT (°F)	PHYSICAL DATA: LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER	MODEL	NOTES
FC-LL-01	LL	LL	HORIZONTAL	1000	0.50	0	2 X 1/4	115	1	60	8.8	15	32.607	25.996	75.0	51.2	62.5	51.0	6.4	7.03	42	52	59.003	68	122	3.5	13.83	210	180	1' - 8 1/4"	5' - 3 1/2"	0' - 9 7/8"	134	DAIKIN APPLIED	FCHH210	
FC-LL-02	LL	LL	HORIZONTAL	1000	0.50	0	2 X 1/4	115	1	60	8.8	15	32.607	25.996	75.0	51.2	62.5	51.0	6.4	7.03	42	52	59.003	68	122	3.5	13.83	210	180	1' - 8 1/4"	5' - 3 1/2"	0' - 9 7/8"	134	DAIKIN APPLIED	FCHH210	
FC-LL-03	LL	LL	HORIZONTAL	1000	0.50	0	2 X 1/4	115	1	60	8.8	15	32.607	25.996	75.0	51.2	62.5	51.0	6.4	7.03	42	52	59.003	68	122	3.5	13.83	210	180	1' - 8 1/4"	5' - 3 1/2"	0' - 9 7/8"	134	DAIKIN APPLIED	FCHH210	
FC-LL-04	LL	LL	HORIZONTAL	1000	0.50	0	2 X 1/4	115	1	60	8.8	15	32.607	25.996	75.0	51.2	62.5	51.0	6.4	7.03	42	52	59.003	68	122	3.5	13.83	210	180	1' - 8 1/4"	5' - 3 1/2"	0' - 9 7/8"	134	DAIKIN APPLIED	FCHH210	
FC-LL-05	LL	LL	HORIZONTAL	1000	0.50	0	2 X 1/4	115	1	60	8.8	15	32.607	25.996	75.0	51.2	62.5	51.0	6.4	7.03	42	52	59.003	68	122	3.5	13.83	210	180	1' - 8 1/4"	5' - 3 1/2"	0' - 9 7/8"	134	DAIKIN APPLIED	FCHH210	
FC-LL-06	LL	LL	HORIZONTAL	510	0.50	0	1/4	115	1	60	4.4	15	18.014	14.940	75.0	52.2	62.5	52.0	3.6	1.92	42	52	26.105	68	108	1.8	8.20	210	180	1' - 8 1/4"	3' - 11"	0' - 9 7/8"	94	DAIKIN APPLIED	FCHH206	
FC-LL-07	LL	LL	HORIZONTAL	600	0.50	0	1/4	115	1	60	4.4	15	18.014	14.940	75.0	52.2	62.5	52.0	3.5	1.92	42	52								1' - 8 1/4"	3' - 11"	0' - 9 7/8"	94	DAIKIN APPLIED	FCHH206	
FC-LL-08	LL	LL	HORIZONTAL	1200	0.50	0	2 X 1/4	115	1	60	8.8	15	40.537	30.648	75.0	51.6	62.5	50.6	8.2	10.32	42	52	79.850	68	129	5.5	33.22	210	180	1' - 8 1/4"	6' - 0 1/2"	0' - 9 7/8"	155	DAIKIN APPLIED	FCHH212	
FC-UL-02	UL	UL	HORIZONTAL	600	0.50	0	1/4	115	1	60	4.4	15	18.014	14.940	75.0	52.2	62.5	52.0	3.5	1.92	42	52								1' - 8 1/4"	3' - 11"	0' - 9 7/8"	94	DAIKIN APPLIED	FCHH206	
FC-UL-03	UL	UL	HORIZONTAL	600	0.50	0	1/4	115	1	60	4.4	15	18.014	14.940	75.0	52.2	62.5	52.0	3.5	1.92	42	52								1' - 8 1/4"	3' - 11"	0' - 9 7/8"	94	DAIKIN APPLIED	FCHH206	

MODULAR INDOOR AIR HANDLING UNIT SCHEDULE - CHILLED WATER / HOT WATER

| MARK | AREA SERVED | LOCATION | TYPE | SYSTEM MIN. OA (CFM) | HEATING COIL DATA: MAX.

CITY OF CHICAGO VENTILATION SCHEDULE_MEZZANINE LEVEL

ROOM NO.	ROOM NAME	ORDINACE USE OF SPACE	ROOM AREA (SQ. FT.)	ORDINANCE REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	ORDINANCE REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	NOTES
	ELEC CLOSET	STORAGE (INACTIVE)	28	0	0	0	0	
	ELEC CLOSET	STORAGE (INACTIVE)	26	0	0	0	0	
ML.8FF.1	MENS RESTROOM	TOILET ROOM	336	0	673	630		
ML.8KK.1	OFFICE	OFFICE	11151	6691	3345	13040	13040	
			11541	6691	4018			

CITY OF CHICAGO VENTILATION SCHEDULE_BASEMENT LEVEL

ROOM NO.	ROOM NAME	ORDINACE USE OF SPACE	ROOM AREA (SQ. FT.)	ORDINANCE REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	ORDINANCE REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	NOTES
B1.8CC.1	MECHANICAL EQUIPMENT	STORAGE (INACTIVE)	1028	0	0	860	600	
B1.8KK.2	STORAGE	STORAGE (INACTIVE)	299	0	0	0	0	
B1.8KK.3	STORAGE	STORAGE (INACTIVE)	75	0	0	100	100	
B1.8KK.4	MECHANICAL EQUIPMENT	STORAGE (INACTIVE)	881	0	0	900	900	
B1.8LL.2	CORRIDOR	CORRIDOR	789	0	0	350	350	
			3072	0	0			

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

MARK	AREA SERVED	LOCATION	ASSOCIATED AHU	INLET SIZE (IN)	AIRFLOW (CFM) MINIMUM	AIRFLOW (CFM) DESIGN	MIN INLET STATIC (IN WC)	CONTROL TYPE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	NOTES
VAV-8A-S1/2-001	AIRLIINE SUPPORT - UL.8B.1 & UL.8B.3	AIRLIINE SUPPORT - UL.8B.3	8A-S1/2	12"	310 CFM	1030 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S1/2-002	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	260 CFM	860 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S1/2-003	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	260 CFM	860 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S1/2-004	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	260 CFM	860 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S4-001	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	250 CFM	820 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S4-002	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	14"	525 CFM	1740 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S6-001	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	250 CFM	820 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S6-002	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	415 CFM	1380 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S6-003	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	8"	140 CFM	460 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S6-004	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	280 CFM	920 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S6-005	AIRLIINE SUPPORT - UL.8G.7	AIRLIINE SUPPORT - UL.8G.7	8A-S6	10"	280 CFM	920 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S7-001	BOH COMMERCIAL - UL.8K.1	BOH COMMERCIAL - UL.8K.1	8A-S7	14"	575 CFM	1915 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S7-002	MEN RESTROOMS - UL.8M.4	MEN RESTROOMS - UL.8M.4	8A-S7	10"	300 CFM	1000 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S7-003	WOMEN RESTROOMS - UL.8M.5	BOH COMMERCIAL - UL.8K.1	8A-S7	10"	280 CFM	920 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S8-001	PPS - LL.8C.4	PPS - LL.8C.4	8A-S8	12"	370 CFM	1220 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S8-002	BSO - LL.8C.3	BSO - LL.8C.3	8A-S8	6"	90 CFM	300 CFM	0.00 in-wg		TITUS	DESV	
VAV-8A-S9-001	MAILROOM - LL.8J.1	MAILROOM - LL.8J.1	8A-S8	10"	300 CFM	1000 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S3-001	TSA BREAK ROOM - UL.8S.2	TSA BREAK ROOM - UL.8S.2	8B-S3	8"	180 CFM	600 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-001	MEN RESTROOMS - UL.8Q.10	MEN RESTROOMS - UL.8Q.10	8B-S7	10"	200 CFM	660 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-002	WOMEN RESTROOMS - UL.8R.2	WOMEN RESTROOMS - UL.8R.2	8B-S7	10"	270 CFM	900 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-003	SSCP - UL.8S.3	SSCP - UL.8S.3	8B-S7	10"	290 CFM	960 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-004	SSCP - UL.8S.3	SSCP - UL.8S.3	8B-S7	10"	220 CFM	720 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-005	SSCP - UL.8S.3	SSCP - UL.8S.3	8B-S7	10"	290 CFM	960 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-006	SSCP - UL.8S.3	SSCP - UL.8S.3	8B-S7	10"	290 CFM	960 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-007	SSCP - UL.8S.3	SSCP - UL.8S.3	8B-S7	10"	290 CFM	960 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S7-008	SSCP - UL.8S.3	SSCP - UL.8S.3	8B-S7	10"	290 CFM	960 CFM	0.00 in-wg		TITUS	DESV	
VAV-8B-S8-001				8"	135 CFM	450 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-001	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	17"	960 CFM	3200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-002	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	14"	960 CFM	3200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-003	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	14"	960 CFM	3200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-004	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	17"	960 CFM	3200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-005	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	14"	540 CFM	1800 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-006	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	14"	540 CFM	1800 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-007	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	12"	360 CFM	1200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-008	SSCP - UL.8EE.8	SSCP - UL.8EE.8	S-D-1	10"	285 CFM	950 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-01-009	CONCESSION - UL.8FF.3	CONCESSION - UL.8FF.3	S-D-1	12"	360 CFM	1200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-001			S-D-2	16"	620 CFM	2060 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-002			S-D-2	16"	620 CFM	2060 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-003			S-D-2	16"	620 CFM	2060 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-004			S-D-2	16"	620 CFM	2060 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-005	LANDSIDE CIRCULATION - UL.8KK.7	LANDSIDE CIRCULATION - UL.8KK.7	S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-006	LANDSIDE CIRCULATION - UL.8KK.7	LANDSIDE CIRCULATION - UL.8KK.7	S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-007	LANDSIDE CIRCULATION - UL.8KK.7	LANDSIDE CIRCULATION - UL.8KK.7	S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-008	LANDSIDE CIRCULATION - UL.8KK.7	LANDSIDE CIRCULATION - UL.8KK.7	S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-009	LANDSIDE CIRCULATION - UL.8KK.7	LANDSIDE CIRCULATION - UL.8KK.7	S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-010			S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-011			S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-012			S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-013	CHECK-IN - UL.8KK.6 & LANDSIDE CIRCULATION - UL.8KK.7	CHECK-IN - UL.8KK.6	S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-014	CHECK-IN - UL.8KK.6 & LANDSIDE CIRCULATION - UL.8KK.7	CHECK-IN - UL.8KK.6	S-D-2	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-02-015	LANDSIDE CIRCULATION - UL.8KK.7	LANDSIDE CIRCULATION - UL.8KK.7	S-D-2	12"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-001	BOH CORRIDOR -UL.8KK.7	BOH CORRIDOR -UL.8KK.7	AHU-3	16"	960 CFM	3200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-002	BOH CORRIDOR -UL.8KK.7	BOH CORRIDOR -UL.8KK.7	AHU-3	17"	0 CFM	0 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-003	BOH CORRIDOR -UL.8KK.7	BOH CORRIDOR -UL.8KK.7	AHU-3	12"	0 CFM	0 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-004				10"	310 CFM	1020 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-005				10"	285 CFM	935 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-006				10"	255 CFM	850 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-007				12"	310 CFM	1020 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-008				12"	310 CFM	1020 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-009				10"	280 CFM	920 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-010				14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-011				10"	255 CFM	850 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-012				10"	255 CFM	850 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-013				16"	960 CFM	3200 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-03-014				14"	480 CFM	1600 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-04-001			AHU-4	12"	390 CFM	1300 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-04-002	CHECK-IN - UL.8KK.6	CHECK-IN - UL.8KK.6	AHU-4	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-04-003	CHECK-IN - UL.8KK.6	CHECK-IN - UL.8KK.6	AHU-4	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-04-004	CHECK-IN - UL.8KK.6	CHECK-IN - UL.8KK.6	AHU-4	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-04-005	CHECK-IN - UL.8KK.6 & LANDSIDE CIRCULATION - UL.8KK.7	CHECK-IN - UL.8KK.6	AHU-4	14"	510 CFM	1700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-001	SSCP - UL.8EE.8	SSCP - UL.8EE.8	AHU-5	10"	300 CFM	1000 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-002	SSCP - UL.8EE.8	SSCP - UL.8EE.8	AHU-5	10"	210 CFM	700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-003	SSCP - UL.8EE.8	SSCP - UL.8EE.8	AHU-5	10"	180 CFM	600 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-004	SSCP - UL.8EE.8	SSCP - UL.8EE.8	AHU-5	12"	420 CFM	1400 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-005	SSCP - UL.8EE.8	SSCP - UL.8EE.8	AHU-5	14"	490 CFM	1620 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-006	SSCP - UL.8EE.8	SSCP - UL.8EE.8	AHU-5	10"	210 CFM	700 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-007			AHU-5	8"	190 CFM	630 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-05-008	MEN RESTROOMS - ML.8FF.1	MEN RESTROOMS - ML.8FF.1	AHU-5	8"	190 CFM	630 CFM	0.00 in-wg		TITUS	DESV	
VAV-8C-06-001				12"	375 CFM	1250 CFM	0.00 in-wg		TITUS	DESV	
VAV-EX-RTU-001	HOLDROOM - UL.8Z.7	HOLDROOM - UL.8Z.7	RTU-3	14"	480 CFM	1600 CFM	0.00 in-wg		TITUS	DESV	
VAV-EX-RTU-002	HOLDROOM - UL.8Z.7	HOLDROOM - UL.8Z.7	RTU-3	12"	420 CFM	1400 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-3-001	HOLDROOM - UL.8Z.7	HOLDROOM - UL.8Z.7	RTU-3	12"	385 CFM	1280 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-3-002	HOLDROOM - UL.8Z.7	HOLDROOM - UL.8Z.7	RTU-3	12"	340 CFM	1120 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-3-003	HOLDROOM - UL.8Z.7 & HOLDROOM - UL.8CC.2	HOLDROOM - UL.8Z.7	RTU-3	12"	385 CFM	1280 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-3-004	HOLDROOM - UL.8Z.7 & HOLDROOM - UL.8CC.2	HOLDROOM - UL.8Z.7	RTU-3	12"	400 CFM	1320 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-4-001	HOLDROOM - UL.8CC.2	HOLDROOM - UL.8CC.2	RTU-4	12"	400 CFM	1320 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-4-002	HOLDROOM - UL.8CC.2	HOLDROOM - UL.8CC.2	RTU-4	12"	385 CFM	1280 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-4-003	HOLDROOM - UL.8CC.2	HOLDROOM - UL.8CC.2	RTU-4	12"	385 CFM	1280 CFM	0.00 in-wg		TITUS	DESV	
VAV-RTU-4-004	HOLDROOM - UL.8CC.2	HOLDROOM - UL.8CC.2	RTU-4	12"	340 CFM	1120 CFM	0.00 in-wg		TITUS	DESV	

DIFFUSER SCHEDULE

TAG	CFM RANGE	SERVICE	NECK SIZE	DIFFUSER SIZE	BASE ON MANUFACTURER AND MODEL	REMARKS
S-1	0-200	SUPPLY	8" DIA.	24" x 24"	TITUS - TMS	1-5
	201-320	SUPPLY	10" DIA.	24" x 24"	TITUS - TMS	1-5
	321-420	SUPPLY	12" DIA.	24" x 24"	TITUS - TMS	1-5
	421-560	SUPPLY	14" DIA.	24" x 24"	TITUS - TMS	1-5
S-2	0-220	SUPPLY	12" x 6"	13-3/4" x 7-3/4"	TITUS - 300RL	1-5, 7
	221-360	SUPPLY	18" x 6"	19-3/4" x 7-3/4"	TITUS - 300RL	1-5, 7
	361-530	SUPPLY	24" x 6"	25-3/4" x 7-3/4"	TITUS - 300RL	1-5, 7
	531-690	SUPPLY	22" x 10"	23-3/4" x 11-3/4"	TITUS - 300RL	1-5, 7
	691-1000	SUPPLY	24" x 12"	25-3/4" x 13-3/4"	TITUS - 300RL	1-5, 7
	1001-1500	SUPPLY	30" x 16"	31-3/4" x 17-3/4"	TITUS - 300RL	1-5, 7
S-3	0-160	SUPPLY	8" DIA.	4' LONG, 1-SLOT, 1" SLOT WIDTH, PROVIDE WITH 4FT LONG PLENUM	TITUS - FL-10HT	1-6
S-4	60-90	SUPPLY	6" DIA.	4' LONG, SINGLE SIDE	NAILOR - 5410	1-6
S-5	0-300	SUPPLY	10" DIA.	4' LONG, 2-SLOT, 1" SLOT WIDTH, PROVIDE WITH 4FT LONG PLENUM	TITUS - FL-10HT	1-6
R-1	0-400	RETURN	15" x 15"	24" x 24"	TITUS - PAR	1-5
	401-800	RETURN	18" x 18"	24" x 24"	TITUS - PAR	1-5
	801-1300	RETURN	22" x 22"	24" x 24"	TITUS - PAR	1-5
R-2	VARIES	RETURN	VARIES	VARIES - REFER TO PLANS	TITUS - CT-540	1-5
E-1	0-300	EXHAUST	10" DIA.	4' LONG, 2-SLOT, 1" SLOT WIDTH, PROVIDE WITH 4FT LONG PLENUM	TITUS - FL-10HT	1-6
E-2	0-400	EXHAUST	12" x 12"	13-3/4" x 13-3/4"	TITUS - 350RL	1-5, 7
	401-1000	EXHAUST	18" x 18"	19-3/4" x 19-3/4"	TITUS - 350RL	1-5, 7
	1001-1500	EXHAUST	30" x 16"	31-3/4" x 17-3/4"	TITUS - 350RL	1-5, 7
TR-1	0-300	TRANSFER	10" DIA.	4' LONG, 2-SLOT, 1" SLOT WIDTH, PROVIDE WITH 4FT LONG PLENUM	TITUS - FL-10HT	1-6

NOTES:
1. ALL GRILLES & DIFFUSERS SHALL BE CLEAN AND FREE OF DEBRIS PRIOR TO TENANT MOVING INTO THE SPACE.
2. COORDINATE LOCATION OF NEW GRILLES & DIFFUSERS WITH NEW CEILING LAYOUT, SPRINKLER HEADS AND LIGHTING FIXTURES.
3. COORDINATE WITH ARCHITECT FOR CEILING TYPE, COLOR AND FINISH.
4. PROVIDE BORDER TO MATCH CEILING CONSTRUCTION.
5. PROVIDE CABLE DAMPERS AT DIFFUSER LOCATED ON DRYWALL OR NON ACCESSIBLE.
6. PROVIDE MOUNTING FRAMES AT DRY WALL CEILING AREAS. COORDINATE WITH ARCHITECTURE DRAWINGS.
7. PROVIDE WITH OPPOSED BLADE DAMPER.

CITY OF CHICAGO VENTILATION SCHEDULE_UPPER LEVEL

ROOM NO.	ROOM NAME	ORDINACE USE OF SPACE	ROOM AREA (SQ. FT.)	ORDINANCE REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	ORDINANCE REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	NOTES
B1.8CC.2	AIRLINE SUPPORT	OFFICE	5965	3579	1789	7560		
LL.8R.X	OFFICE	WAITING ROOM	192	192	192	26040	26040	
UL.8AA.1	WOMENS RESTROOM	TOILET ROOM	596	0	1191	1000		
UL.8B.2	AIRLINE OPERATIONS	OFFICE	311	187	93	400	400	
UL.8B.3	CORRIDOR	CORRIDOR	172	0	0	0	0	
UL.8B.4	AIRLINE SUPPORT	OFFICE	526	316	158	630	630	
UL.8CC.2	HOLDROOM	WAITING ROOM	2508	2508	2508	5680	5680	
UL.8EE.1	OFFICE	OFFICE	209	126	63	0	0	
UL.8EE.3	BOH CIRCULATION	CORRIDOR	138	0	0	0	0	
UL.8EE.B	TELEPHONE	STORAGE (INACTIVE)	49	0	0	0	0	
UL.8EE.D	CONTROLS	STORAGE (INACTIVE)	19	0	0	0	0	
UL.8EE.E	ELEC	STORAGE (INACTIVE)	96	0	0	0	0	
UL.8EE.H	OFFICE	OFFICE	103	62	31	0	0	
UL.8EE.H	OFFICE	OFFICE	107	64	32	0	0	
UL.8FF.3	CONCESSION	RETAIL - RETAIL STORE	707	707	707	1200	1200	
UL.8FF.4	OFFICE	OFFICE	665	399	200	700		
UL.8JJ.1	QUEUING	WAITING ROOM	3072	3072	3072	5500	5500	
UL.8JJ.B	TELEPHONE	STORAGE (INACTIVE)	49	0	0	0	0	
UL.8K.2	QUEUING	WAITING ROOM	1301	1301	1301	1915		
UL.8KK.2	SSCP	OFFICE	6627	3976	1988	0		
UL.8KK.3	CLUB	RETAIL - RETAIL STORE	2110	2110	2110	0	0	
UL.8KK.3	CLUB	RETAIL - RETAIL STORE	8303	8303	8303	11000	11000	
UL.8L.2	WOMENS RESTROOM	TOILET ROOM	500	0	1000	920		
UL.8L.3	JAN CLOSET	STORAGE (INACTIVE)	31	0	0	0		
UL.8LL.1	DISPLACED PROGRAM	OFFICE	1980	1188	594	0		
UL.8LL.4	DISPLACED PROGRAM	OFFICE	885	531	265	0		
UL.8LL.6	BREAKROOM	OFFICE	438	263	131	700		
UL.8M.2	MENS RESTROOM	TOILET ROOM	585	0	1171	1000		
UL.8P.3	JAN CLOSET	STORAGE (INACTIVE)	37	0	0	0		
UL.8P.5	MENS RESTROOM	TOILET ROOM	432	0	864	660		
UL.8Q.1	CONCESSION	RETAIL - RETAIL STORE	967	967	967	0	0	
UL.8Q.A	Room	RETAIL - RETAIL STORE	109	109	109	0	0	
UL.8S.3	SSCP	OFFICE	7534	4520	2260	5520	5520	
UL.8S.4	OFFICE	OFFICE	594	356	178	600	600	
UL.8S.D	ELEC	STORAGE (INACTIVE)	85	0	0	0	0	
UL.8T2.2	SSCP	OFFICE	5447	3268	1634	3400		
UL.8T2.2	SSCP	STORAGE (INACTIVE)	575	0	0	0	0	
UL.8T2.3	CONCESSION	RETAIL - RETAIL STORE	3568	3568	3568	600	600	
UL.8V.F	LOCKER ROOM	STORAGE (ACTIVE)	1648	824	824	250	250	
UL.8X.1	QUEUING	WAITING ROOM	2788	2788	2788	1650	1650	
UL.8Z.2	CORRIDOR	CORRIDOR	2575	0	0	320	320	
UL.8Z.2	CORRIDOR	CORRIDOR	1564	0	0	0	0	
UL.8Z.3	CORRIDOR	CORRIDOR	4568	0	0	600	600	
UL.8Z.4	HOLDROOM	WAITING ROOM	3164	3164	3164	6120	6120	
UL.8Z.H	CORRIDOR	CORRIDOR	71	0	0	0		
UL.8Z.H1	STORAGE	STORAGE (INACTIVE)	101	0	0	0		
UL.8Z.H2	STORAGE	STORAGE (INACTIVE)	136	0	0	0		
				74207	48448	43256		

CITY OF CHICAGO VENTILATION SCHEDULE_LOWER LEVEL

ROOM NO.	ROOM NAME	ORDINACE USE OF SPACE	ROOM AREA (SQ. FT.)	ORDINANCE REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	ORDINANCE REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION SUPPLY (CFM)	DESIGN REQUIREMENTS MECH. VENTILATION EXHAUST (CFM)	NOTES
LL.8AA.3	STORAGE	STORAGE (INACTIVE)	119	0	0	0		
LL.8AA.4	BHS CONTROL ROOM	OFFICE	225	135	68	0	0	
LL.8AA.5	BHS CONTROL ROOM	STORAGE (INACTIVE)	75	0	0	0		
LL.8AA.6	UTILITIES	STORAGE (INACTIVE)	70	0	0	0	0	
LL.8AA.8	ELEC	STORAGE (INACTIVE)	55	0	0	0	0	
LL.8B.L	STORAGE	STORAGE (INACTIVE)	335	0	0	350	350	
LL.8B.O	AIRSIDE CIRCULATION	CORRIDOR	1169	0	0	740	740	
LL.8C.2	BSO	STORAGE (INACTIVE)	552	0	0	300	300	
LL.8C.3	LOST & FOUND	OFFICE	810	486	243	1080	1080	
LL.8CC.A	VESTIBULE	CORRIDOR	413	0	0	0	0	
LL.8I.1	BAG CLAIM	WAITING ROOM	22945	22945	22945	24080	24080	
LL.8J.1	MAILROOM	OFFICE	863	518	259	1000	1000	
LL.8L.1	STORAGE	STORAGE (INACTIVE)	590	0	0	400	400	
LL.8L.2	BAG CONTROL	OFFICE	1666	1000	500	210	210	
LL.8M.1	BAG CLAIM	GARAGE (5 OR MORE CARS)	12011	9008	12011	12000		
LL.8X.1	AIR-UTILITY/STORAGE-TELECOMMUNICATIONS	STORAGE (INACTIVE)	73	0	0	0		
LL.8X.2	OFFICE	OFFICE	95	57	29	120		
LL.8X.3	BREAKOUT ROOM	OFFICE LUNCH ROOM (NO COOK)	337	505	505	240		
LL.8X.4	OFFICE	OFFICE	100	60	30	120		
LL.8Y.1	OFFICE	OFFICE	83	50	25	120		
LL.8Y.2	BREAKROOM	OFFICE LUNCH ROOM (NO COOK)	104	156	156	120		
LL.8Y.G	EQUIP	STORAGE (INACTIVE)	840	0	0	0		
LL.8Z.1	OFFICE	OFFICE	117	70	35	120		
LL.8Z.2	ELV EQUIP	STORAGE (INACTIVE)	73	0	0	0		
LL.8Z.3	TELEPHONE ROOM	STORAGE (INACTIVE)	48	0	0	0		
LL.8Z.4	AIRSIDE CIRCULATION	OFFICE	1970	1182	591	0		
LL.8Z.5	JAN CLOSET	STORAGE (INACTIVE)	59	0	0	0		
				45800	36173	37397		

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

MECHANICAL SCHEDULES

DRAWN BY: **KS**
CHECKED

PUMP SCHEDULE

ITEM TYPE	ITEM NO.	LOCATION	FLOW [GPM]	PUMP HEAD [FT WC]	MOTOR DATA HP	V	PH	HZ	SPEED CONTROL	NOTES
P	1	BLDG 8C BSMT EAST MR	1200	120	40.0	460	3	60	VFD	
P	2	BLDG 8C BSMT EAST MR	1200	120	40.0	460	3	60	VFD	
P	3	BLDG 8C BSMT WEST MR	264	54	10.0	460	3	60	VFD	
P	4	BLDG 8C BSMT WEST MR	264	54	10.0	460	3	60	VFD	
P	5	BLDG 8C BSMT WEST MR	303	63	10.0	460	3	60	VFD	
P	6	BLDG 8C BSMT WEST MR	303	63	10.0	460	3	60	VFD	
SP	1	BLDG 8C BSMT EAST MR	205	108	10.0	460	3	60	VFD	
SP	2	BLDG 8C BSMT EAST MR	53	67	10.0	460	3	60	VFD	
SP	3	BLDG 8C BSMT WEST MR	106	58	10.0	460	3	60	VFD	
SP	4	BLDG 8C BSMT WEST MR	162	51	10.0	460	3	60	VFD	
SP	5	BLDG 8C MEZZ ROOF	73	20	1.0	460	3	60	VFD	
SP	6	BLDG 8C MEZZ ROOF	73	20	1.0	460	3	60	VFD	
SP	7	BLDG 8C MEZZ ROOF	15	10	1.0	460	3	60	VFD	
SP	8	BLDG 8C MEZZ ROOF	15	10	1.0	460	3	60	VFD	
SP	9	BLDG 8C MEZZ ROOF	15	10	1.0	460	3	60	VFD	
SP	10	BLDG 8C MEZZ ROOF	15	10	1.0	460	3	60	VFD	
SP	11	BLDG 8C MEZZ ROOF	15	10	1.0	460	3	60	VFD	
SP	12	BLDG 8C MEZZ ROOF	15	10	1.0	460	3	60	VFD	
SP	13	BLDG 8B LL	29	10	1.0	460	3	60	VFD	
SP	14	BLDG 8C P.H.	7	20	1.0	460	3	60	VFD	
SP	15	BLDG 8C P.H.	46	20	1.0	460	3	60	VFD	
SP	16	BLDG 8C PH	73	20	1.0	460	3	60	VFD	
SP	17	BLDG 8C PH	33	20	1.0	460	3	60	VFD	
SP	18	BLDG 8B UL	9	20	1.0	460	3	60	VFD	
SP	19	BLDG 8C PH	46	20	1.0	460	3	60	VFD	
SP	20	BLDG 8C PH	46	20	1.0	460	3	60	VFD	
SP	21	BLDG 8C PH	46	20	1.0	460	3	60	VFD	
SP	22	BLDG 8C P.H.	7	5	1.0	460	3	60	VFD	
SP	23	BLDG 8C P.H.	31	10	1.0	460	3	60	VFD	
SP	24	BLDG 8C PH	73	20	1.0	460	3	60	VFD	
SP	25	BLDG 8C PH	73	20	1.0	460	3	60	VFD	
SP	26	BLDG 8C MEZZ ROOF	73	20	1.0	460	3	60	VFD	
SP	27	BLDG 8C LL MECH RM	144	30	1.5	460	3	60	VFD	
SP	28	BLDG 8C LL MECH RM	144	30	1.5	460	3	60	VFD	
SP	29	BLDG 8C BSMT EAST MR	191	50	5.0	460	3	60	VFD	
SP	30	BLDG 8B LL	67	25	1.0	460	3	60	VFD	

AIR SEPARATOR SCHEDULE

ITEM TYPE	ITEM NO.	LOCATION	SERVICE	TYPE	PIPE CONN SIZE [IN]	REQUIRED CAPACITY [GPM]	AIR REMOVAL %	FLUID SYSTEM	PRESSURE DROP [PSIG]	DESIGN PRESSURE [PSI]	OPERATING WEIGHT [LBS]	NOTES
AS	1	BLDG 8C BSMT EAST MR	LTHW	COALESCING	10"	940	60	WATER	0.78	150	888	
AS	2	BLDG 8C BSMT WEST MR	LTHW	COALESCING	5"	370	60	WATER	0.43	150	362	

VALVE SCHEDULE

TAG TYPE	TAG NO.	SERVING	BTUH	Δ T (°F)	FLOW	PIPE DIA.	EG OR PP (%)	TEMP (°F)	REMARKS
GVHT-B-HX	1	HX-1	17000000	150	226 GPM	4	0	450	
GVHT-B-HX	2	HX-2	17000000	150	226 GPM	4	0	450	
GVHT-B-HX	3	HX-3	2500000	150	33 GPM	2	0	450	
GVHT-B-HX	4	HX-4	2500000	150	33 GPM	2	0	450	
3WLT-MZ-SP	5	SP-5	653000	30	73 GPM	1	0	210	
3WLT-MZ-SP	6	SP-6	653000	30	73 GPM	1	0	210	
3WLT-MZ-SP	7	SP-7	182000	30	15 GPM	1	0	210	
3WLT-MZ-SP	8	SP-8	182000	30	15 GPM	1	0	210	
3WLT-MZ-SP	9	SP-9	182000	30	15 GPM	1	0	210	
3WLT-MZ-SP	10	SP-10	182000	30	15 GPM	1	0	210	
3WLT-MZ-SP	11	SP-11	182000	30	15 GPM	1	0	210	
3WLT-MZ-SP	12	SP-12	182000	30	15 GPM	1	0	210	
3WLT-LL-SP	13	SP-13	388000	30	29 GPM	1	0	210	
3WLT-PH-SP	14	SP-14	88000	30	7 GPM	1	0	210	
3WLT-PH-SP	15	SP-15	624000	30	46 GPM	1	0	210	
3WLT-PH-SP	16	SP-16	658000	30	73 GPM	1	0	210	
3WLT-PH-SP	17	SP-17	300000	30	33 GPM	1	0	210	
3WLT-UH-SP	18	SP-18	118000	30	9 GPM	1	0	210	
3WLT-PH-SP	19	SP-19	624000	150	46 GPM	4	0	210	
3WLT-PH-SP	20	SP-20	624000	30	46 GPM	1	0	210	
3WLT-PH-SP	21	SP-21	624000	30	46 GPM	1	0	210	
3WLT-PH-SP	22	SP-22	88000	30	7 GPM	1	0	210	
3WLT-PH-SP	23	SP-23	420000	30	31 GPM	1	0	210	
3WLT-PH-SP	24	SP-24	653000	30	73 GPM	1	0	210	
3WLT-PH-SP	25	SP-25	653000	30	73 GPM	1	0	210	
3WLT-MZ-SP	26	SP-26	653000	30	73 GPM	1	0	210	
3WLT-LL-SP	27	SP-27	2160000	30	144 GPM	2	0	210	
3WLT-LL-SP	28	SP-28	2160000	30	144 GPM	2	0	210	
3WLT-B-SP	29	SP-29	2600000	30	191 GPM	2	0	210	
3WLT-LL-SP	30	SP-30	690000	30	67 GPM	2	0	210	

FIN TUBE RADIATOR SCHEDULE

ITEM TYPE	ITEM NO.	MANUFACTURER	MODEL NO.	LOCATION	ENCLOSURE TYPE	ENCLOSURE LENGTH [FT]	HOT WATER EWT [°F]	HOT WATER LWT [°F]	NOTES
FT	1	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	2	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	3	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	4	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	5	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	6	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	7	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	8	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	9	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	10	STERLING	LS-10	SEE PLANS	METAL GRILLE	4' - 0"	210	180	X
FT	11	STERLING	LS-10	SEE PLANS	METAL GRILLE	9' - 0"	210	180	X
FT	12	STERLING	LS-10	SEE PLANS	METAL GRILLE	10' - 0"	210	180	X
FT	13	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	14	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	15	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	16	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	17	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	18	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	19	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	20	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	21	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	22	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	23	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	24	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	25	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	26	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	27	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X
FT	28	STERLING	LS-10	SEE PLANS	METAL GRILLE	12' - 0"	210	180	X

REFER DWG M1.2.03

RADIANT CEILING PANEL SCHEDULE

ITEM TYPE	ITEM NO.	WIDTH	LENGTH	MEAN T (°F)	PASSES	BTU/FT	Σ BTU	MANUFACTURER	Model	NOTES
CLG	1	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	2	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	3	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	4	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	5	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	6	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	7	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	8	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	9	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	10	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	11	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	12	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	13	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	14	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	15	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	16	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	17	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	18	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	19	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	20	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	21	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	22	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	23	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	24	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	25	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	26	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	27	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	28	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	29	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	30	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	31	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	32	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	33	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	34	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	35	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	36	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	37	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	38	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	39	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	40	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	41	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	42	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	43	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	44	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	45	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	46	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	47	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	48	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	49	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	50	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	51	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	52	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	53	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	54	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	55	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	56	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	57	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	58	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	59	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	60	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	61	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	62	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	63	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	64	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	65	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	66	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	67	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	68	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	69	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	
CLG	70	2' - 0"	9' - 0"	160	12	556	5004	STERLING	LINEAR RADIANT PANEL	

EXPANSION TANK SCHEDULE

ITEM TYPE	ITEM NO.	MANUFACTURER	MODEL NO.	LOCATION	TYPE	FLUID SYSTEM	SYSTEM VOLUME [GAL]	SYSTEM TEMP RANGE [°F]	ACCEPTANCE VOLUME [GAL]	TANK SIZE DIA [IN]	TANK SIZE LENGTH [IN]	INITIAL PRESSURE AT TANK [PSIG]	MAX OPERATING PRESSURE RELIEF VALVE [PSIG]	MAX OPERATING PRESSURE AT TANK [PSIG]	OPERATING WEIGHT [LBS]	NOTES
ET	1	BELL & GOSSETT	B1200	BLDG 8C P.H.	VERTICAL FLOOR MT	LTHW	317.0	40-210	317.0	36"	91"	12	75	125	3320	
ET	2	BELL & GOSSETT	B1200	BLDG 8C BSMT WEST MR	VERTICAL FLOOR MT	LTHW	317.0	40-210	317.0	36"	91"	12	75	125	3320	
ET	3	BELL & GOSSETT	B1200	BLDG 8C BSMT EAST MR	VERTICAL FLOOR MT	LTHW	317.0	40-210	317.0	36"	91"	12	75	125	3320	

SHELL & TUBE HEAT EXCHANGE SCHEDULE

ITEM TYPE	ITEM NO.	SHELL SIDE FLUID	SHELL SIDE TOTAL FLOW (GPM)	SHELL SIDE INLET TEMP (F)	SHELL SIDE OUTLET TEMP (F)	SHELL SIDE OPERATING PRESSURE (PSI)	SHELL SIDE PRESSURE DROP. ALLOW/CALC	SHELL SIDE SPECIFIED FOULING FACTOR	TUBE SIDE FLUID	TUBE SIDE TOTAL FLOW (GPM)	TUBE SIDE INLET TEMP (F)	TUBE SIDE OUTLET TEMP (F)	TUBE SIDE OPERATING PRESSURE (PSI)	TUBE SIDE PRESSURE DROP. ALLOW/CALC	TUBE SIDE SPECIFIED FOULING FACTOR	TOTAL HEAT EXCHANGE	LMTD	OVERALL HEAT TRANSFER COEFFICIENT CLEAN/ DIRTY	OVERALL HEAT TRANSFER COEFFICIENT SERVICE	SURFACE AREA (SQ. FT.)	EXCESS SURFACE AREA (%)	SHELL SIDE NUMBER OF PASSES	SHELL SIDE DESIGN PRESSURE (PSI)	SHELL SIDE DESIGN TEMP (F)	SHELL SIDE INLET CONN. TYPE	SHELL SIDE OUTLET CONN. TYPE	TUBE SIDE NUMBER OF PASSES	TUBE SIDE DESIGN PRESSURE	TUBE SIDE DESIGN TEMP (F)	TUBE SIDE INLET CONN. TYPE	TUBE SIDE OUTLET CONN. TYPE	TUBE MATERIAL/DIA	NO. TUBES/ GAUGE/ LENGTH/ PITCH	SHELL MATERIAL	TUBESHEET MATERIAL	HEAD TYPE/ MATERIAL	BAFFLE MATERIAL	GASKET MATERIAL	NOTES
HX	1	WATER	1170	180	210	150	6.5	0.000250	WATER	126	400	250	150	6.5	0.000250	17000000	92.4	1009 / 659	601	342.1	9.72	1	150	400	8.0 in 150#	10.0 in 150#	2	600	450	8 in 600#	8 in 600#	90/10 CU NI / 3/4 in	104 / 18 BWG / 84 / 15/16 TRI	STEEL	STEEL	FAB. STEEL	90/10 CU NI	SPIRAL WND	
HX	2	WATER	1170	180	210	150	6.5	0.000250	WATER	126	400	250	150	6.5	0.000250	17000000	92.4	1009 / 659	601	342.1	9.72	1	150	400	8.0 in 150#	10.0 in 150#	2	600	450	8 in 600#	8 in 600#	90/10 CU NI / 3/4 in	104 / 18 BWG / 84 / 15/16 TRI	STEEL	STEEL	FAB. STEEL	90/10 CU NI	SPIRAL WND	
HX	3	WATER	184	180	210	150	6.5	0.000250	WATER	39	400	250	600	6.5	0.000250	2664000	120	628 / 470	398	59.2	18.2	1	150	400	4.0 in 150#	4.0 in 150#	4	600	450	1.5 in 600#	1.5 in 600#	90/10 CU NI / 3/4 in	44 / 18 BWG / 84 / 15/16 TRI	STEEL	STEEL	FAB. STEEL	90/10 CU NI	SPIRAL WND	
HX	4	WATER	184	180	210	150	6.5	0.000250	WATER	39	400	250	600	6.5	0.000250	2664000	120	628 / 470	398	59.2	18.2	1	150	400	4.0 in 150#	4.0 in 150#	4	600	450	1.5 in 600#	1.5 in 600#	90/10 CU NI / 3/4 in	44 / 18 BWG / 84 / 15/16 TRI	STEEL	STEEL	FAB. STEEL	90/10 CU NI	SPIRAL WND	

DRAFT - PRE-DECISIONAL

NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE
60% DESIGN

PACKAGE ISSUE DATE
03/24/2023

PHASE
DD

REVISION
--

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

MECHANICAL PIPING SCHEDULES

DRAWN BY: **ARC** CHECKED BY: **MAN**

SHEET NUMBER
M6.2.01

VOLUME: **2**

3/22/2023 1:19:24 PM

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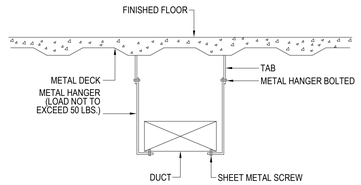
DUCT SUPPORT FROM METAL DECK — 12

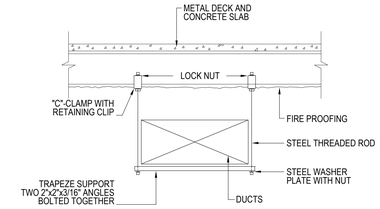
SCALE: NONE



NOTES:
1. DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY HUNG CEILING.
2. FOR DUCTS NOT EXCEEDING 2 SQ. FT. IN CROSS-SECTIONAL AREA, HANGERS SHALL BE OF METAL NOT LESS THAN 1/16".
3. FOR DUCTS LARGER THAN 2 SQ. FT. IN CROSS-SECTIONAL AREA, HANGERS SHALL BE OF METAL NOT LESS THAN 1" x 1/8".
4. FOR ALL DUCTS, HANGERS SHALL BE TURNED UNDER AND FASTENED TO THE BOTTOM OF DUCT AS SHOWN ABOVE.
5. WHERE CROSS-SECTIONAL AREA OF DUCTS EXCEEDS 8 SQ. FT. HANGERS SHALL BE SPACED NOT MORE THAN 4' ON CENTER.

DUCT SUPPORT FROM BEAMS — 8

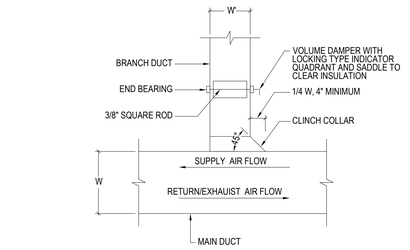
SCALE: NONE



NOTES:
1. PROVIDE VIBRATION ISOLATION AS REQUIRED OR INDICATED ON DRAWINGS.
2. FOR SIZE OF STEEL THREADED RODS, REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARD. METAL AND FLEXIBLE.

RECTANGULAR DUCT ANGULAR TAP W/ VOLUMN DAMPER — 4

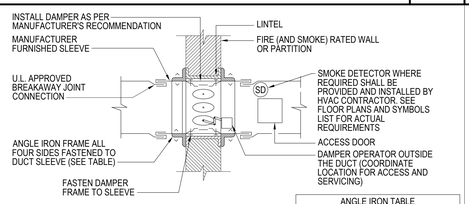
SCALE: NONE



NOTES:
1. USE FOR SYMBOL, WHERE BRANCH DUCT AIR QUANTITY IS LESS THAN 1000 CFM.
2. NOT TO BE USED AS SUBSTITUTE FOR ELBOW.
3. BRANCH DUCT DEPTH SHALL BE A MINIMUM OF 2" LESS THAN MAIN DUCT.

SMOKE DAMPER DETAIL — 11

SCALE: NONE



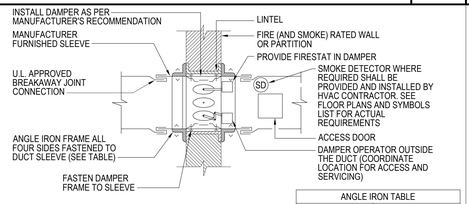
NOTES:
1. DETAIL SHOWN ARE FOR SMOKE DAMPERS IN HORIZONTAL DUCTWORK. FOR DAMPERS IN VERTICAL DUCTWORK, DETAIL IS SIMILAR.
2. ACCESS DOOR IS SHOWN INSIDE OF DUCT.
3. SMOKE DAMPER SHALL BE UL 555S LOW LEAKAGE RATED.
4. THIS DETAIL IS FOR GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1 1/2" x 1 1/2" x 1/8"
55" TO 84"	3" x 2" x 3/16"
85" TO 120"	3" x 2" x 3/16"

NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.

COMBINATION FIRE AND SMOKE DAMPER W/ FIRESTAT LINK — 7

SCALE: NONE



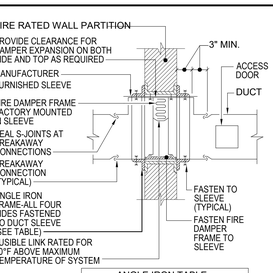
NOTES:
1. DETAIL SHOWN ARE FOR COMBINATION FIRE AND SMOKE DAMPERS IN HORIZONTAL DUCTWORK. FOR DAMPERS IN VERTICAL DUCTWORK, DETAIL IS SIMILAR.
2. ACCESS DOOR IS SHOWN INSIDE OF DUCT.
3. DETAIL FOR SMOKE DAMPER SHALL BE SIMILAR TO COMBINATION DAMPER, EXCEPT DELETE FIRESTAT IN DAMPER.
4. THIS DETAIL IS FOR GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1 1/2" x 1 1/2" x 1/8"
55" TO 84"	3" x 2" x 3/16"
85" TO 120"	3" x 2" x 3/16"

NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.

FIRE DAMPER — 3

SCALE: NONE



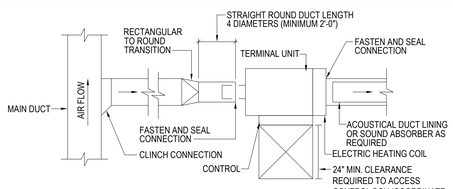
ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1 1/2" x 1 1/2" x 1/8"
55" TO 84"	3" x 2" x 3/16"
85" TO 120"	3" x 2" x 3/16"

NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.

GENERAL NOTES:
1. FIRE DAMPERS TO BE U.L. LABELED N.F.P.A. 90A AND BSA APPROVED.
2. N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF FIRE DAMPER FOR APPROVAL, WHICH SHALL MEET N.F.P.A. STANDARDS 90A.
3. DETAILS SHOWN ARE FOR FIRE DAMPERS IN HORIZONTAL DUCTWORK. FOR FIRE DAMPERS IN VERTICAL DUCTWORK DETAIL IS SIMILAR, EXCEPT DAMPERS SHALL BE SPRING LOADED.
4. ACCESS DOOR IS SHOWN INSIDE OF DUCT. IF FUSIBLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT, RELOCATE ACCESS DOOR.
5. U.L. APPROVED BREAKAWAY SLIP JOINT CONNECTION SHALL BE USED.
6. FIRE DAMPER FOR DUCT HEIGHT LARGER THAN 24" CAN BE IN AIR STREAM.
7. THE DETAIL IS FOR GUIDE ONLY. INSTALL FIRE DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

TERMINAL UNIT INSTALLATION W/HOT WATER HEATING COIL — 10

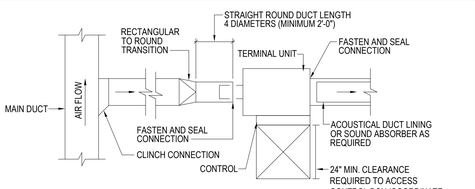
SCALE: NONE



NOTES:
1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS, AS INDICATED ABOVE, CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY THE MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. MANUFACTURER OF TERMINAL UNIT SHALL PROVIDE CONTROLS ON LEFT OR RIGHT SIDE, AS REQUIRED BY FIELD CONDITIONS.
4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.

TERMINAL UNIT INSTALLATION — 6

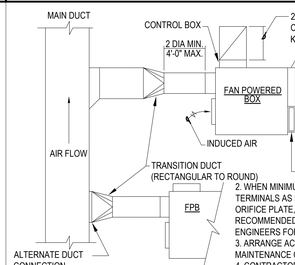
SCALE: NONE



NOTES:
1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS, AS INDICATED ABOVE, CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY THE MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. MANUFACTURER OF TERMINAL UNIT SHALL PROVIDE CONTROLS ON LEFT OR RIGHT SIDE, AS REQUIRED BY FIELD CONDITIONS.
4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.

FAN POWERED TERMINAL UNIT DETAIL INSTALLATION — 2

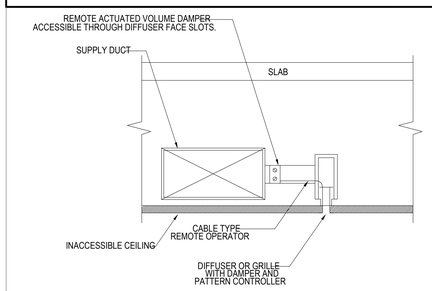
SCALE: NONE



NOTES:
1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTEN- ING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANU- FACTURER AND SUBMIT TO ENGINEERS FOR REVIEW PRIOR TO INSTALLATION.
3. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.
4. CONTRACTOR SHALL DETERMINE LOCATION OF CONTROL BOX BASED ON FIELD INSTALLATION REQUIREMENTS. COORDINATE WITH ALL TRADES TO ENSURE SUFFICIENT SERVICE, AND CODE MANDATED, CLEARANCES ARE MAINTAINED.
5. MOUNT FPB FROM STRUCTURAL STEEL ABOVE USING HANGER RODS OF APPROPRIATE SIZE.
6. INCLUDE FILTER RACK/FRAME AND FILTER ON INDUCED AIR INLET APPROPRIATE SIZE.

TYPICAL LINEAR AIR OUTLET CONNECTION — 9

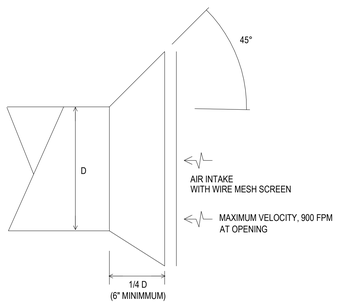
SCALE: NONE



NOTE:
1. CONNECT BRANCH DUCTS TO MAIN DUCT EVERY 4'-0".

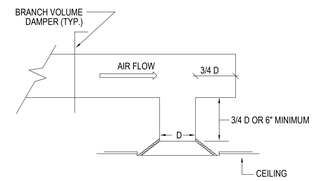
TYPICAL AIR INTAKE (OPEN ENDED DUCT) DETAIL — 5

SCALE: NONE



TYPICAL DIFFUSER INSTALLATION — 1

SCALE: NONE



NOTES:
-MAXIMUM 5 FT FLEXIBLE DUCT ALLOWED W/90° FLEX DUCT ELBOW BRACE SIMILAR TO TITUS FLEX RIGHT.
-ENTIRE BACK SURFACE OF DIFFUSER SHALL BE INSULATED

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NOT FOR CONSTRUCTION

CDA Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudiORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**
CDA WORK BREAKDOWN STRUCTURE (WBS) CODE: **C.O.C.A.002.01**

MECHANICAL TYPICAL DETAILS

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
VOLUME: **2**

M8.1.01

3/19/2023 8:56:46 PM

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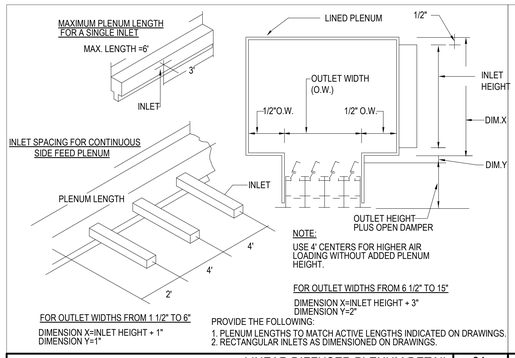
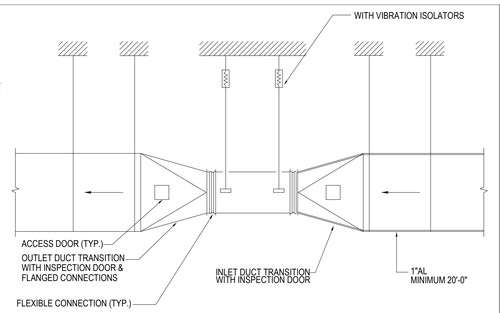
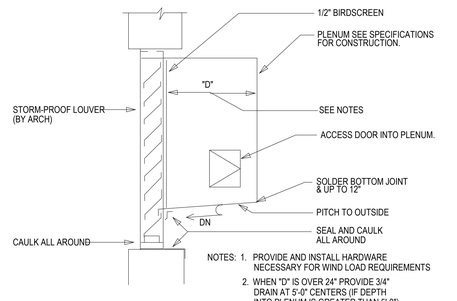


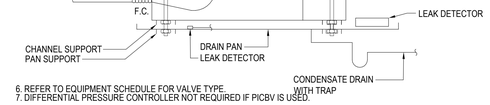
LINEAR DIFFUSER PLENUM DETAIL	24
SCALE: NONE	



INLINE CENTRIFUGAL FAN INSTALLATION	20
SCALE: NONE	

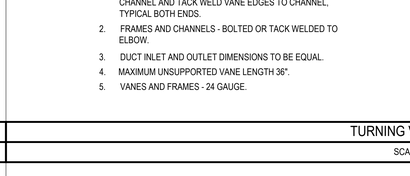


LOUVER CONNECTION DETAIL	16
SCALE: NONE	



6. REFER TO EQUIPMENT SCHEDULE FOR VALVE TYPE.
7. DIFFERENTIAL PRESSURE CONTROLLER NOT REQUIRED IF PICBV IS USED.

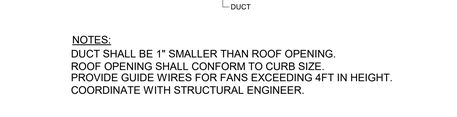
HVAC EQUIPMENT HANGING DETAIL	23
SCALE: NONE	



NOTES:

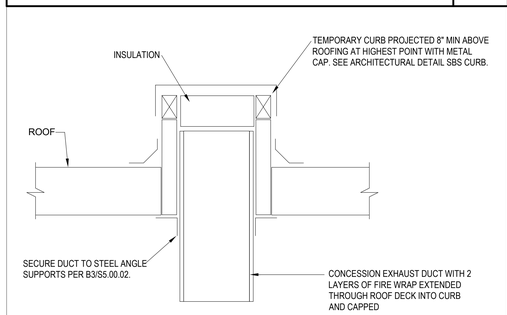
1. FOR HIGH VELOCITY APPLICATIONS PROVIDE 18 GAUGE CHANNEL AND TACK WELD VANE EDGES TO CHANNEL, TYPICAL BOTH ENDS.
2. FRAMES AND CHANNELS - BOLTED OR TACK WELDED TO ELBOW.
3. DUCT INLET AND OUTLET DIMENSIONS TO BE EQUAL.
4. MAXIMUM UNSUPPORTED VANE LENGTH 36".
5. VANES AND FRAMES - 24 GAUGE.

TURNING VANES	19
SCALE: NONE	

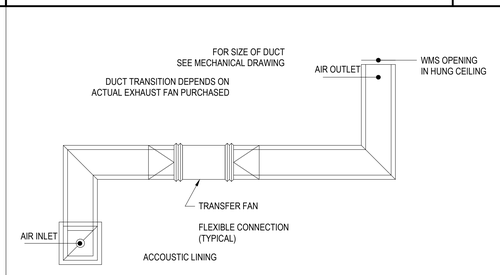


NOTES:
DUCT SHALL BE 1" SMALLER THAN ROOF OPENING.
ROOF OPENING SHALL CONFORM TO CURB SIZE.
PROVIDE GUIDE WIRES FOR FANS EXCEEDING 4FT IN HEIGHT.
COORDINATE WITH STRUCTURAL ENGINEER.

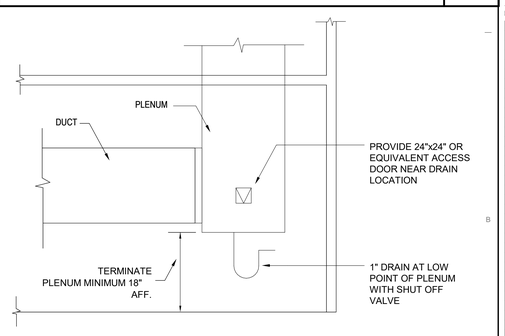
ROOF MOUNTED EXHAUST FAN	15
SCALE: NONE	



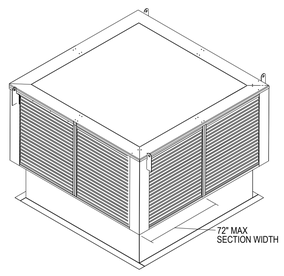
TEMPORARY CURB FOR KITCHEN/DISHWASHER EXHAUST DUCT ON ROOF	22
SCALE: NONE	



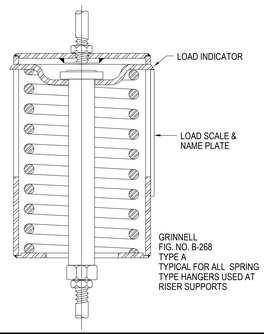
TRANSFER FAN	18
SCALE: NONE	



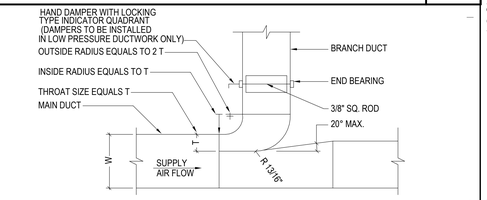
OUTSIDE AIR INTAKE PLENUM DETAIL	14
SCALE: NONE	



LOUVERED PANTHOUSE DETAIL	21
SCALE: NONE	



SPRING HANGER DETAIL	17
SCALE: NONE	



NOTES:
1. FURNISH THIS TYPE CONNECTION WHERE NOTED AND WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH MORE THAN 1000 CFM.
2. FURNISH THIS TYPE CONNECTION WITHOUT HAND DAMPERS FOR ALL HIGH PRESSURE DUCTWORK BRANCHES.
3. MUST BE USED WHEN W > 36".
4. MINIMUM T = 4".
5. UNLESS OTHERWISE NOTED THROAT SIZES SHALL BE PROPORTIONAL TO AIR QUANTITIES.
6. USE ONLY IN LOW PRESSURE DUCTWORK DOWNSTREAM OF TERMINAL UNITS.

RECTANGULAR DUCT BRANCH W/ THROAT AND VOLUME DAMPER	13
SCALE: NONE	

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NOT FOR CONSTRUCTION

CDA
Chicago Department of Aviation

CITY OF CHICAGO
LORI LIGHTFOOT
MAYOR

CHICAGO DEPARTMENT OF AVIATION
JAMIE L. RHEE
COMMISSIONER

PROJECT NUMBER
H1220.23-00

PROJECT NAME
Terminal 3 Improvements and Supplemental Bagroom

10000 W. O'HARE AVE.
CHICAGO, ILLINOIS 60666

PRIME CONSULTANT
StudioORD
Studio Gang | SCB | Corgan | Milhouse | STLarchitects

STAMPING CONSULTANT
SYSKA HENNESSY GROUP
A member company of SH Group, Inc.

MILHOUSE

NOTES

REVISION

NO.	DATE	DESCRIPTION

ISSUANCE: **60% DESIGN**
PACKAGE ISSUE DATE: **03/24/2023**
PHASE: **DD**
REVISION: **--**

CDA WORK BREAKDOWN STRUCTURE (WBS) CODE
C.O.C.A.002.01

MECHANICAL TYPICAL DETAILS

DRAWN BY: **KS**
CHECKED BY: **HC**
SHEET NUMBER
VOLUME: **2**

M8.1.02

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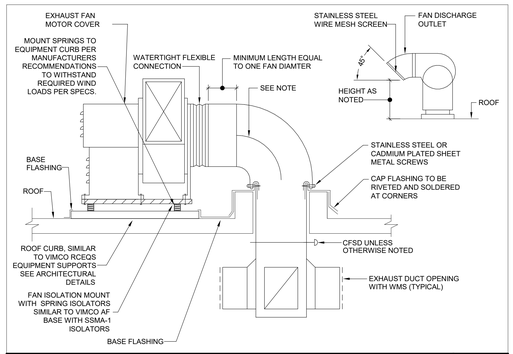
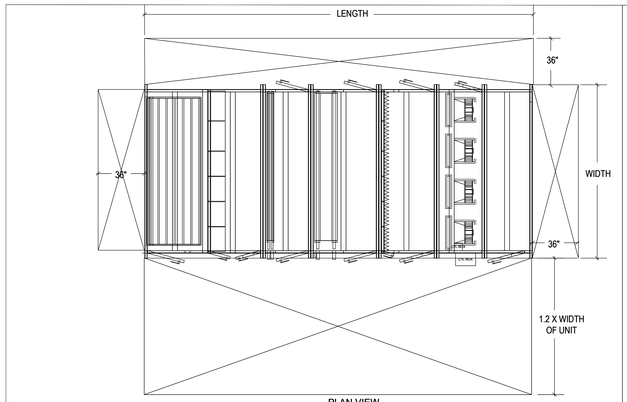
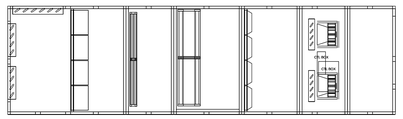


ROOF MOUNTED UTILITY FAN	25
SCALE: NONE	



PLAN VIEW

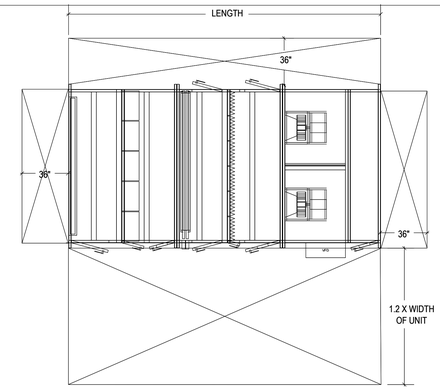


A B C D E F G H I J

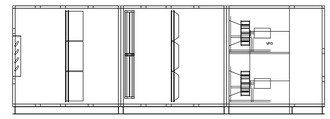
ELEVATION VIEW

A	MIXING BOX RIGHT DOOR	F	FILTER
B	FILTER	G	ACCESS SECTION
C	ACCESS SECTION	H	DAMPER
D	HOT WATER COIL	I	SUPPLY FAN
E	CHILLED WATER COIL	J	PLENUM SECTION

AHU TYPE A COMPONENTS DETAIL	27
SCALE:	



PLAN VIEW

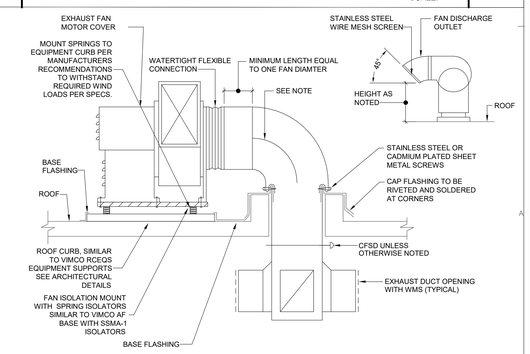


A B C D E F G H

ELEVATION VIEW

A	MIXING BOX RIGHT DOOR	F	ACCESS SECTION
B	FILTER	G	SUPPLY FAN
C	ACCESS SECTION	H	PLENUM SECTION
D	HOT WATER COIL		
E	FILTER		

AHU TYPE B COMPONENTS DETAIL (HEATING AND VENTILATING)	26
SCALE:	



ROOF MOUNTED UTILITY FAN	25
NONE	

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VOLUME: **2**

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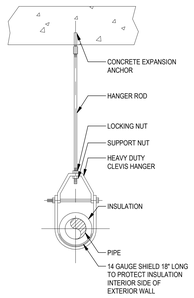
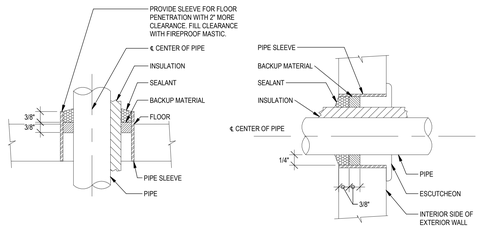


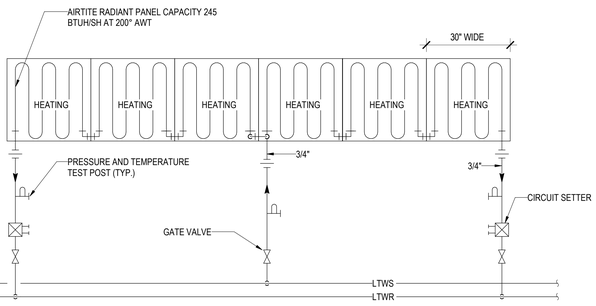
9 PIPE HANGER - CLEVIS TYPE
NTS



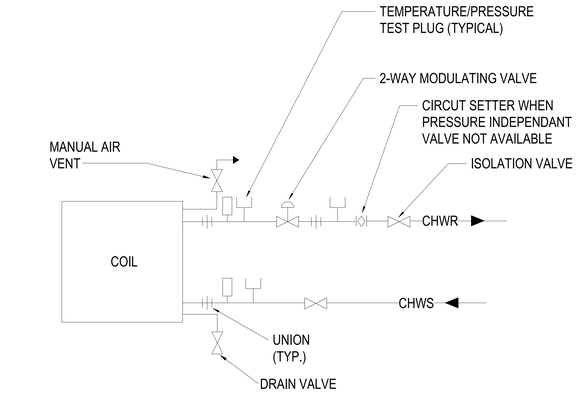
10 PIPE PENETRATIONS THROUGH VARIOUS STRUCTURES
NTS

NOTE:
VALVE CLUSTER WITHIN ENCLOSURE

11 TYPICAL CABINET UNIT HEATER PIPING DETAIL
NTS

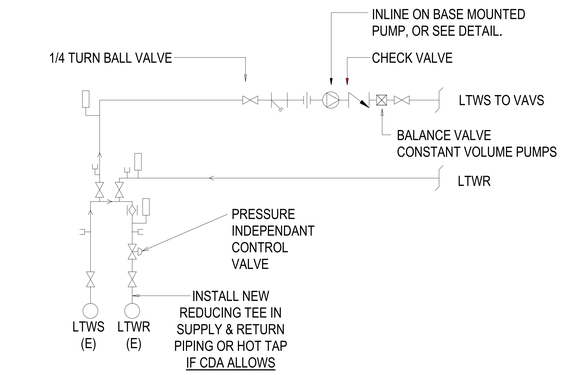


12 TYPICAL RADIANT HEATING PANEL DETAIL
NTS

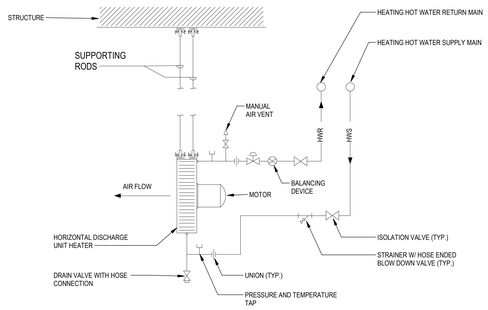


NOTE:
MULTIPLE COIL ARRANGEMENTS SHALL HAVE TEST PLUGS AND UNIONS ON EACH COIL CONNECTION, A BALANCING VALVE ON EACH RETURN CONNECTION AND A SHUTOFF VALVE ON EACH SUPPLY. PROVIDE BUTTERFLY VALVES WITH MEMORY STOP ON PIPE SIZES 2-1/2" AND LARGER.

5 CHILLED WATER COIL PIPING 2-WAY VALVE DETAIL
NTS

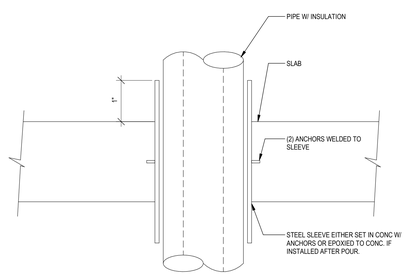


6 DETAIL LTW CONNECTION TO EXISTING
NTS

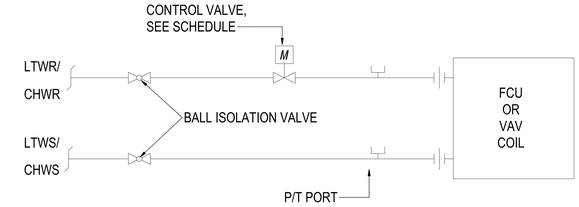


NOTE:
1. THERMOSTAT INTEGRATED WITH UNIT.

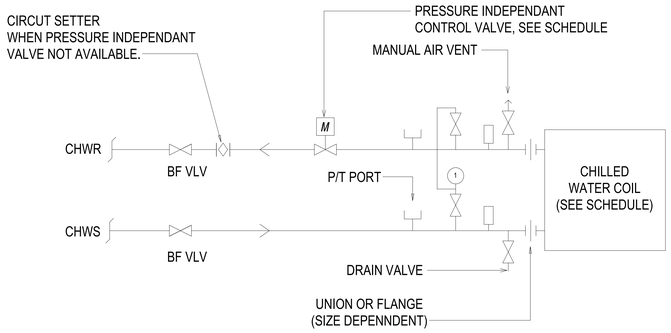
7 HORIZONTAL HOT WATER UNIT HEATER PIPING DETAIL
NTS



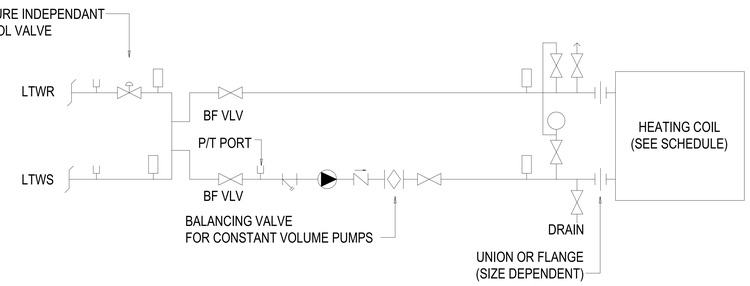
8 PIPE FLOOR PENETRATION
NTS



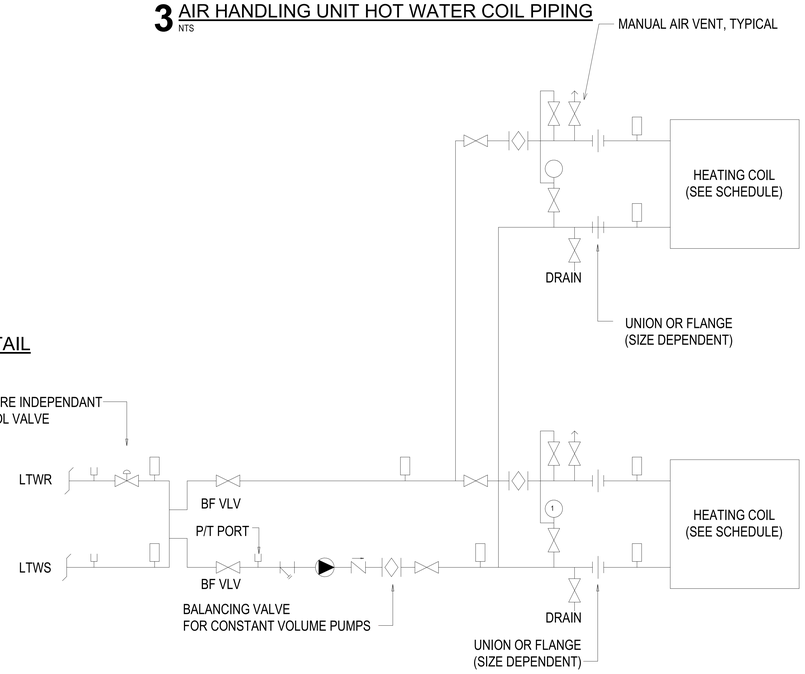
1 FCU/VAV PIPING DIAGRAM
NTS



2 AIR HANDLING UNIT CHILLED WATER COIL PIPING
NTS



3 AIR HANDLING UNIT HOT WATER COIL PIPING
NTS



4 AIR HANDLING UNIT HOT WATER COIL PIPING/MULTIPLE COILS
NTS

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MECHANICAL PIPING DETAILS

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