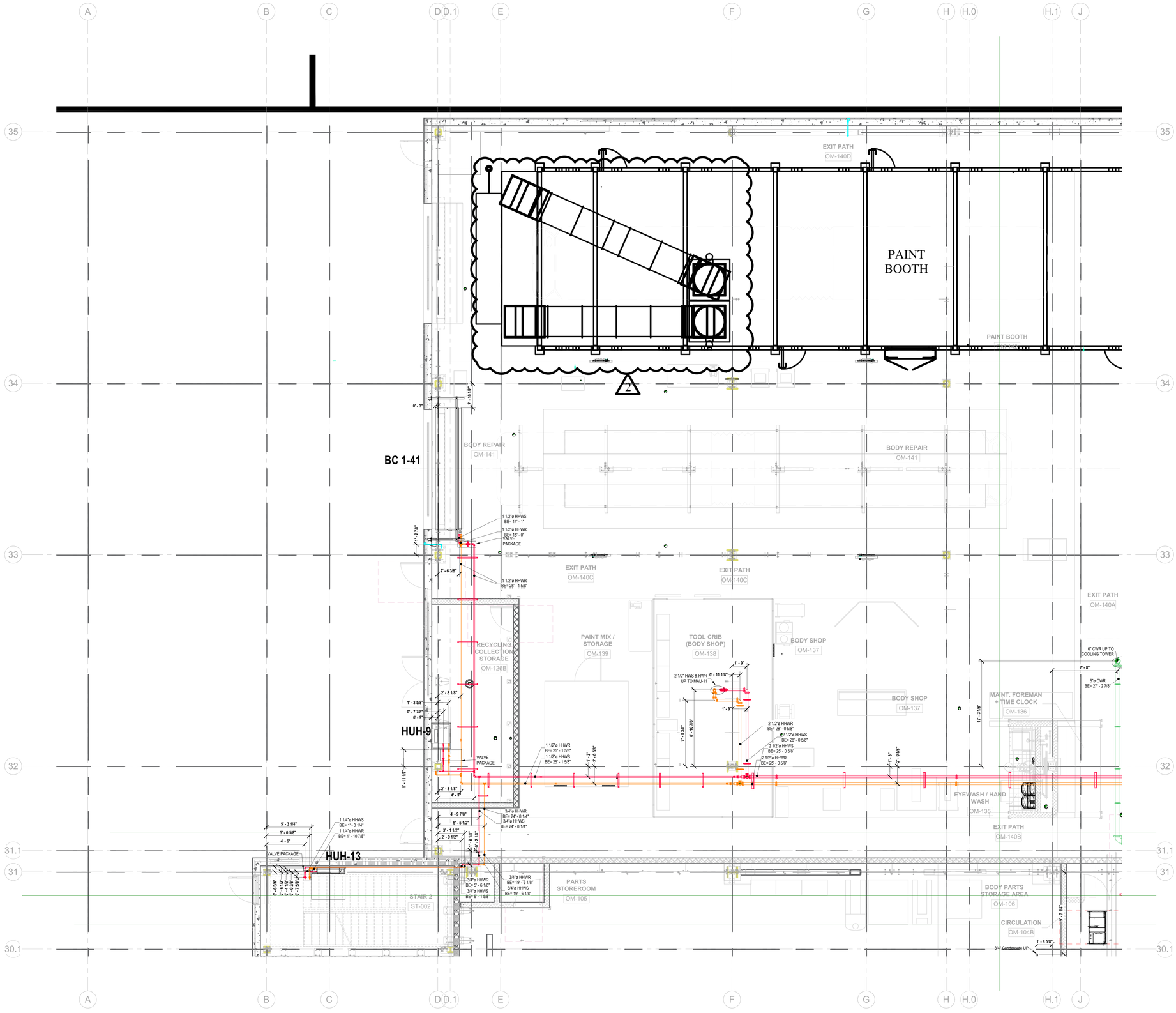
M/P Piping



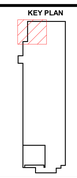
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A.	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

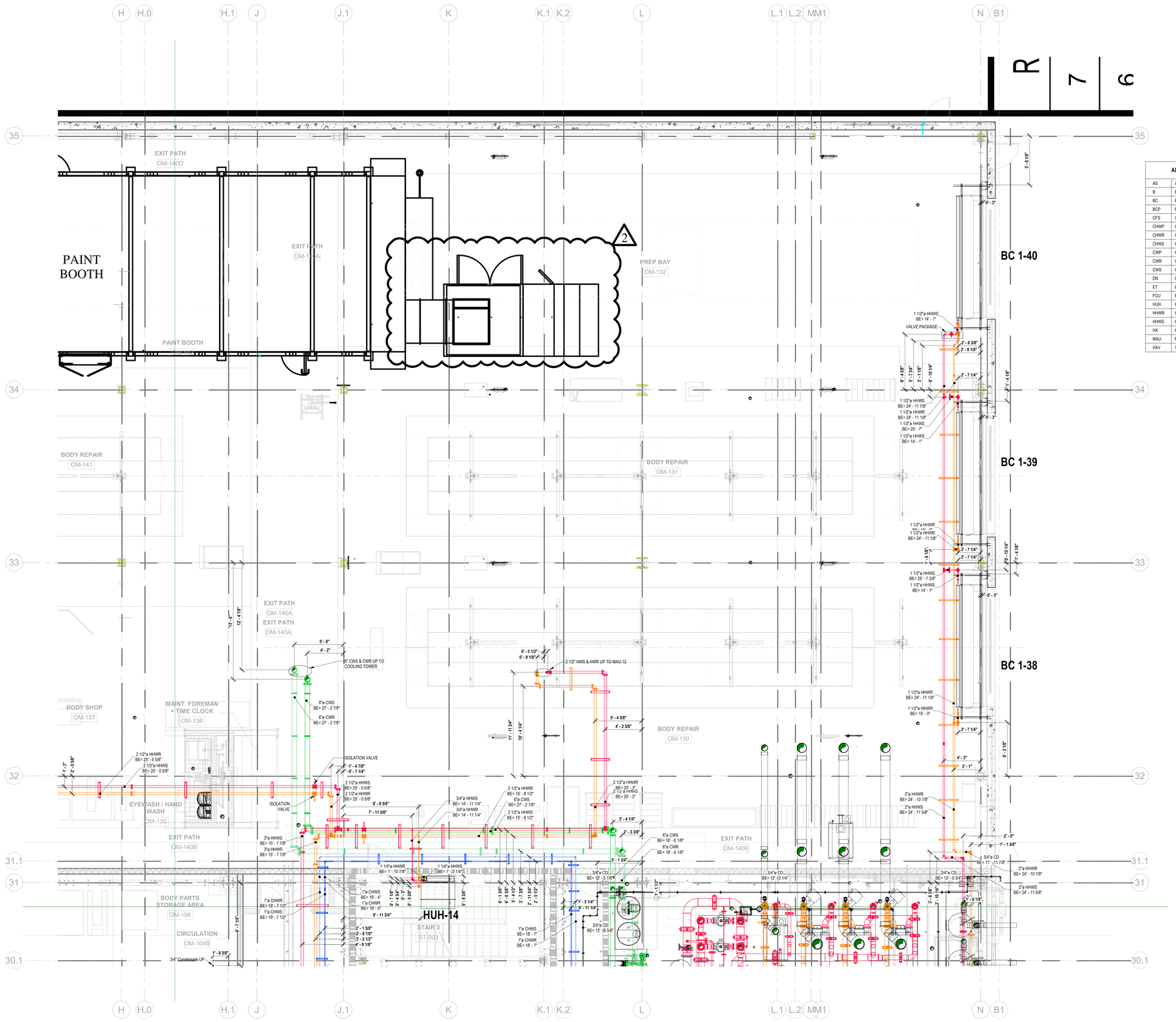
Level 01 Area 1A
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.1A

© 2021 Shapiro & Duncan Inc.

BIM 360://100 WMATA Bladensburg Bus Garage/3D BBGR Mechanical.rvt
2/27/2023 12:49:22 PM



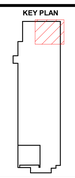
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #:
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

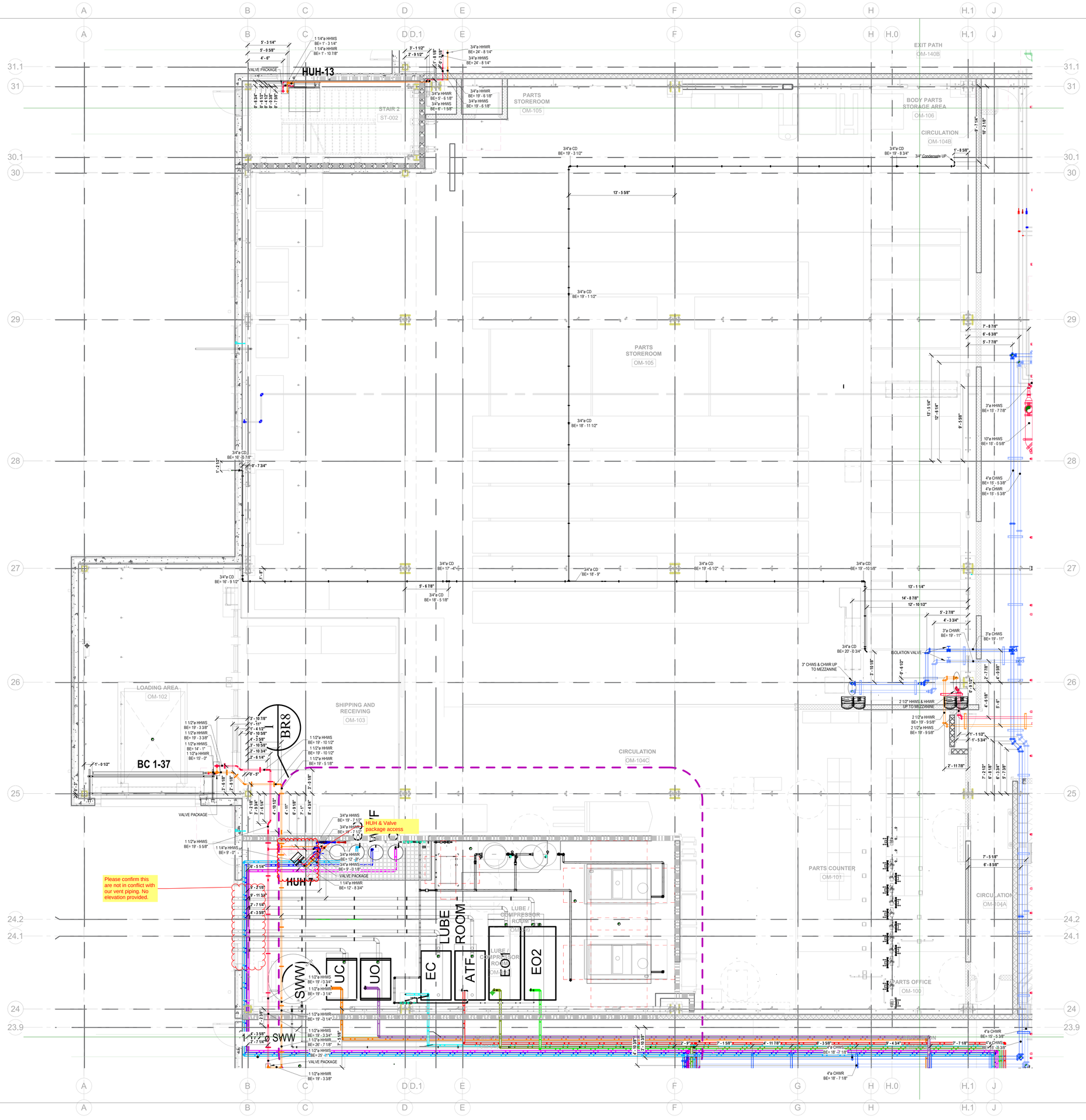
Level 01 Area 1B
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.1B

© 2021 Shapiro & Duncan Inc.

BIM 360://2160 WMATA Bladensburg Bus Garage/3D BBGR Mechanical.rvt
2/27/2024 12:49:29 PM



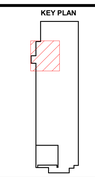
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6240
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A.	ISSUED FOR REVIEW	03/31/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

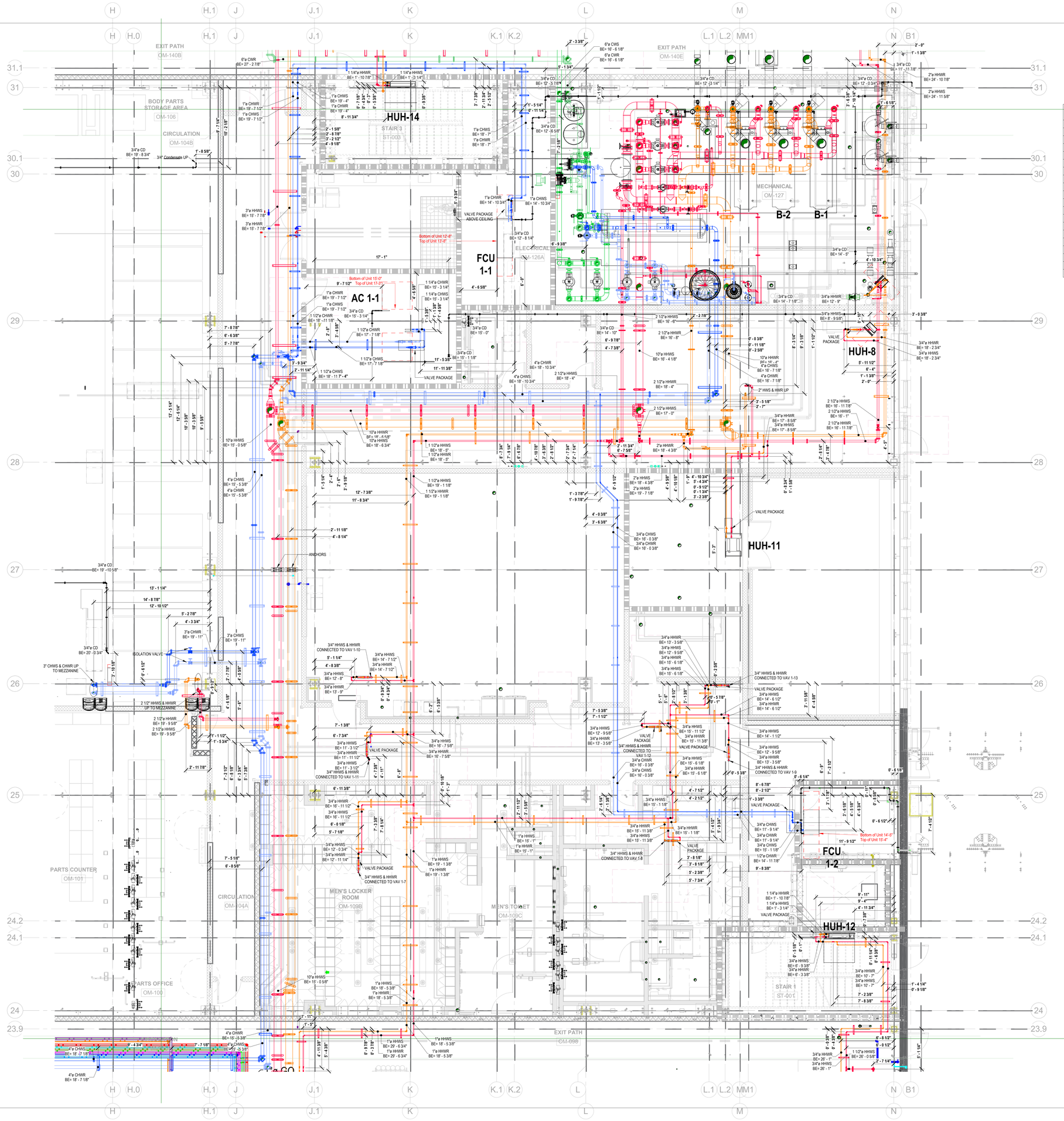
Level 01 Area 2A
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.2A

© 2021 Shapiro & Duncan Inc.

BIM 360://2160 WMATA Bladensburg Bus Garage/SD BBGR Mechanical.rvt
2/27/2024 12:49:37 PM



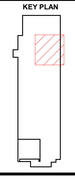
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #:
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

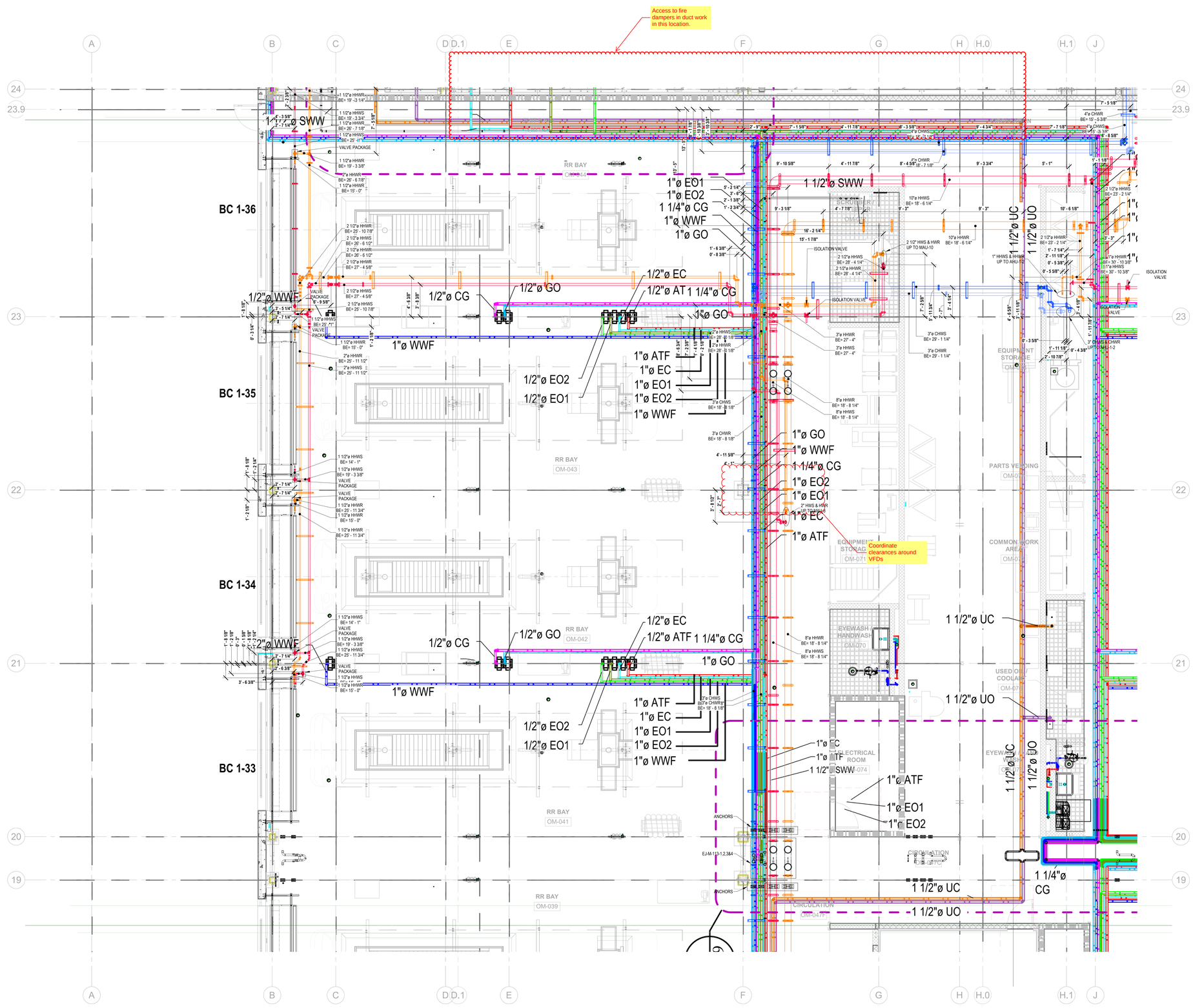
Level 01 Area 2B
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.2B

© 2021 Shapiro & Duncan Inc.

BIM 360:20160 WMATA Bladensburg Bus Garage/3D BIG/R Mechanical.rvt
2/27/2024 12:24:49 PM



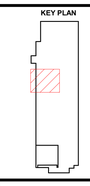
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 28th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

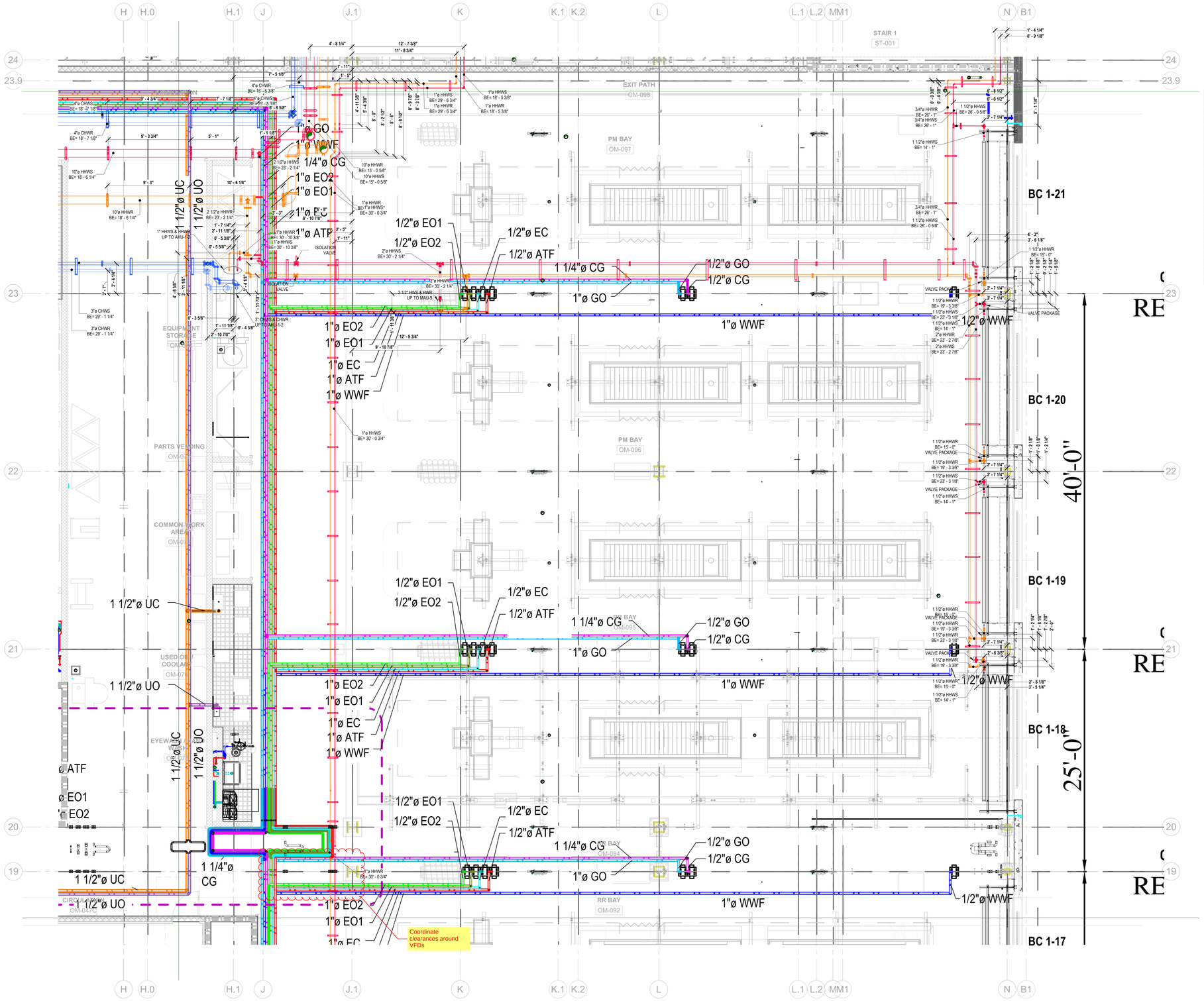
Level 01 Area 3A
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.3A

© 2021 Shapiro & Duncan Inc.

BIM 360://7139 HMATX Bladensburg Bus Garage/SD BBGR Mechanical.rvt
2/27/2023 12:49:51 PM

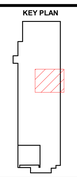


ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan
MECHANICAL CONTRACTORS
DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A.	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

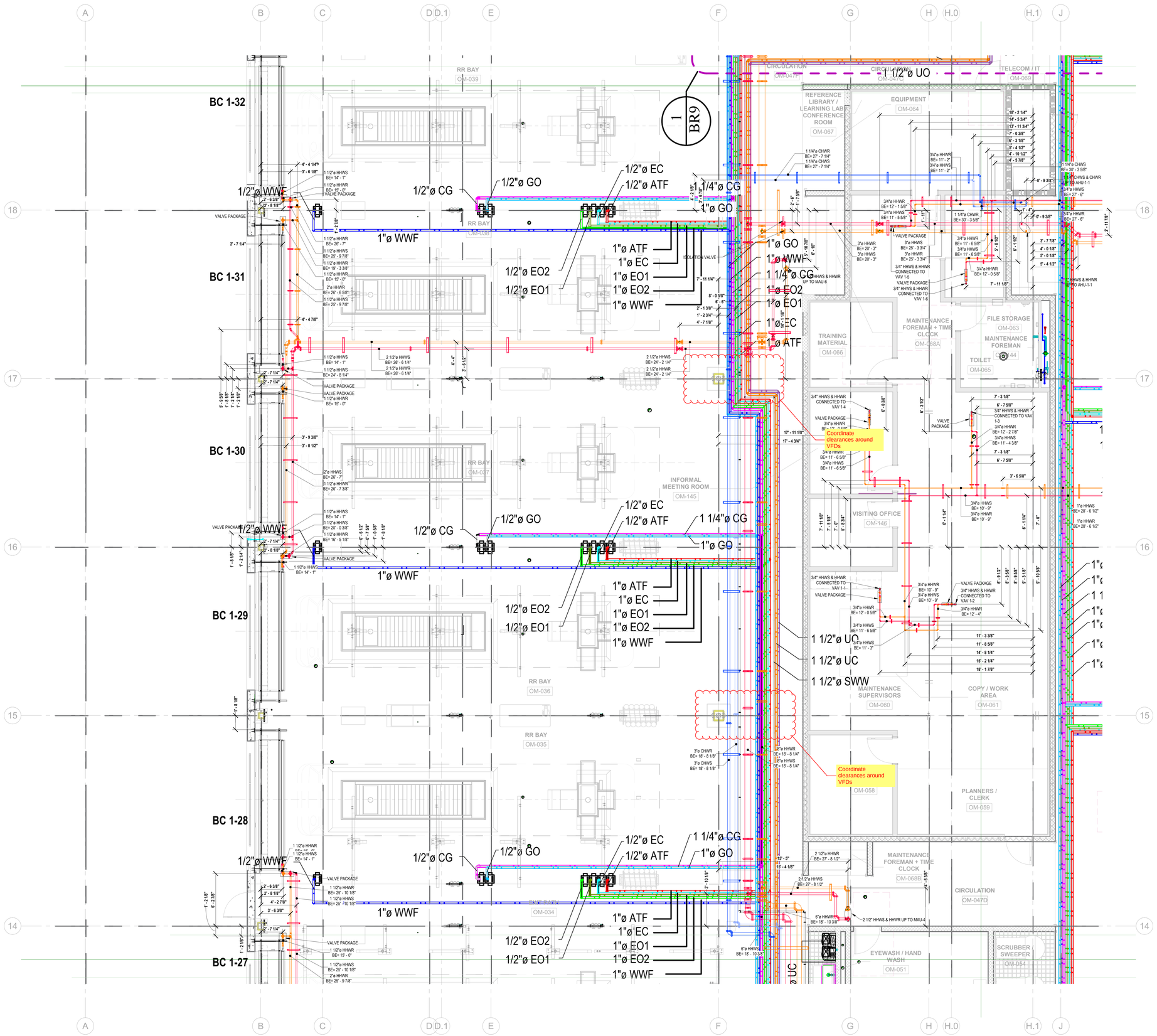
Level 01 Area 3B
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.3B

© 2021 Shapiro & Duncan Inc.

BIM 360://2100 WMATA Bladensburg Bus Garage/3D BBGR Mechanical.rvt
2/27/2023 12:46:59 PM



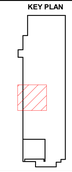
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

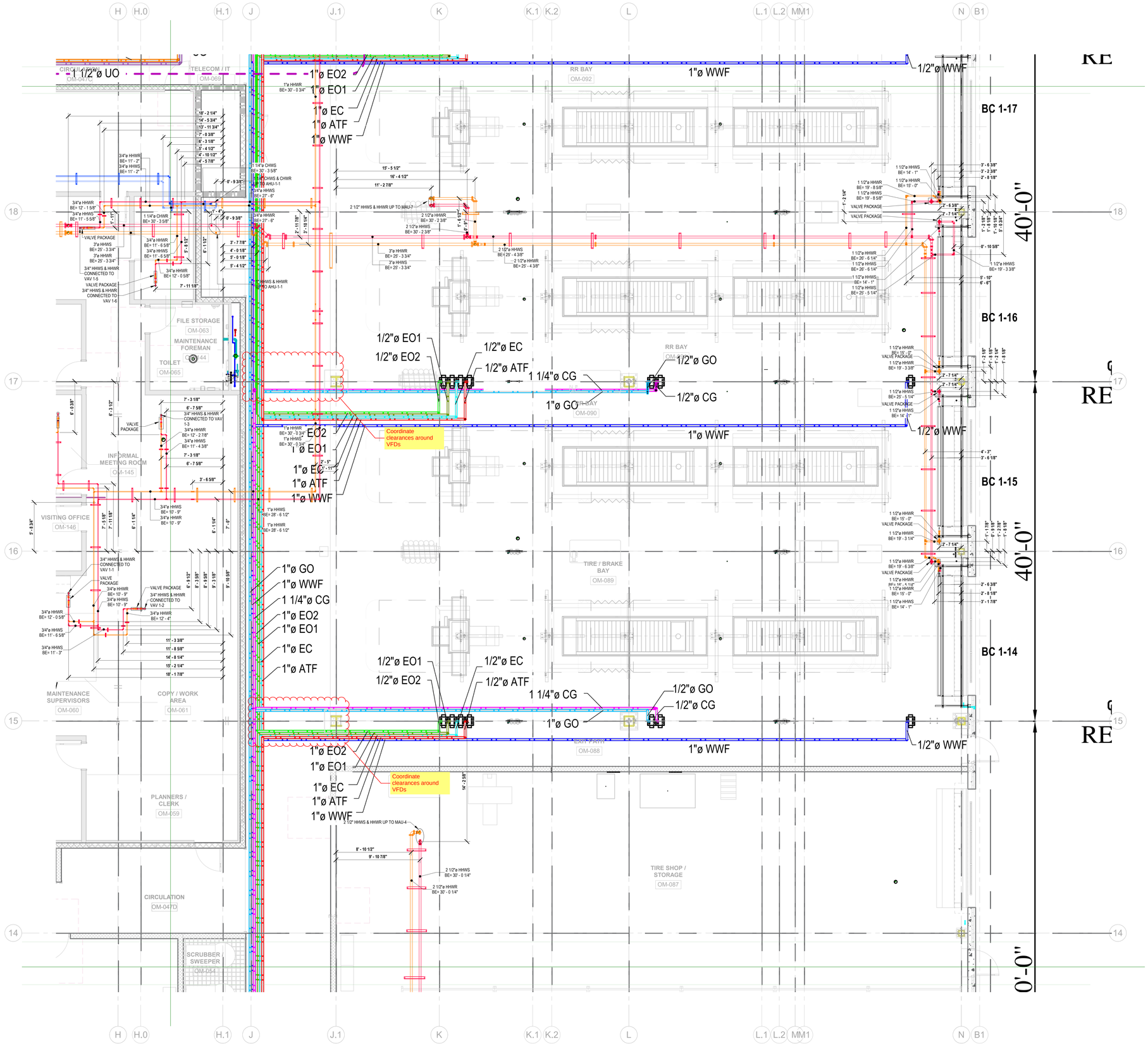
Level 01 Area 4A
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.4A

© 2021 Shapiro & Duncan Inc.

BIM 360:2160 WMATA Bladensburg Bus Garage/3D BBGR Mechanical.rvt
2/27/2024 12:53:05 PM

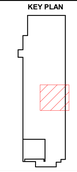


ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS
DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #:
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

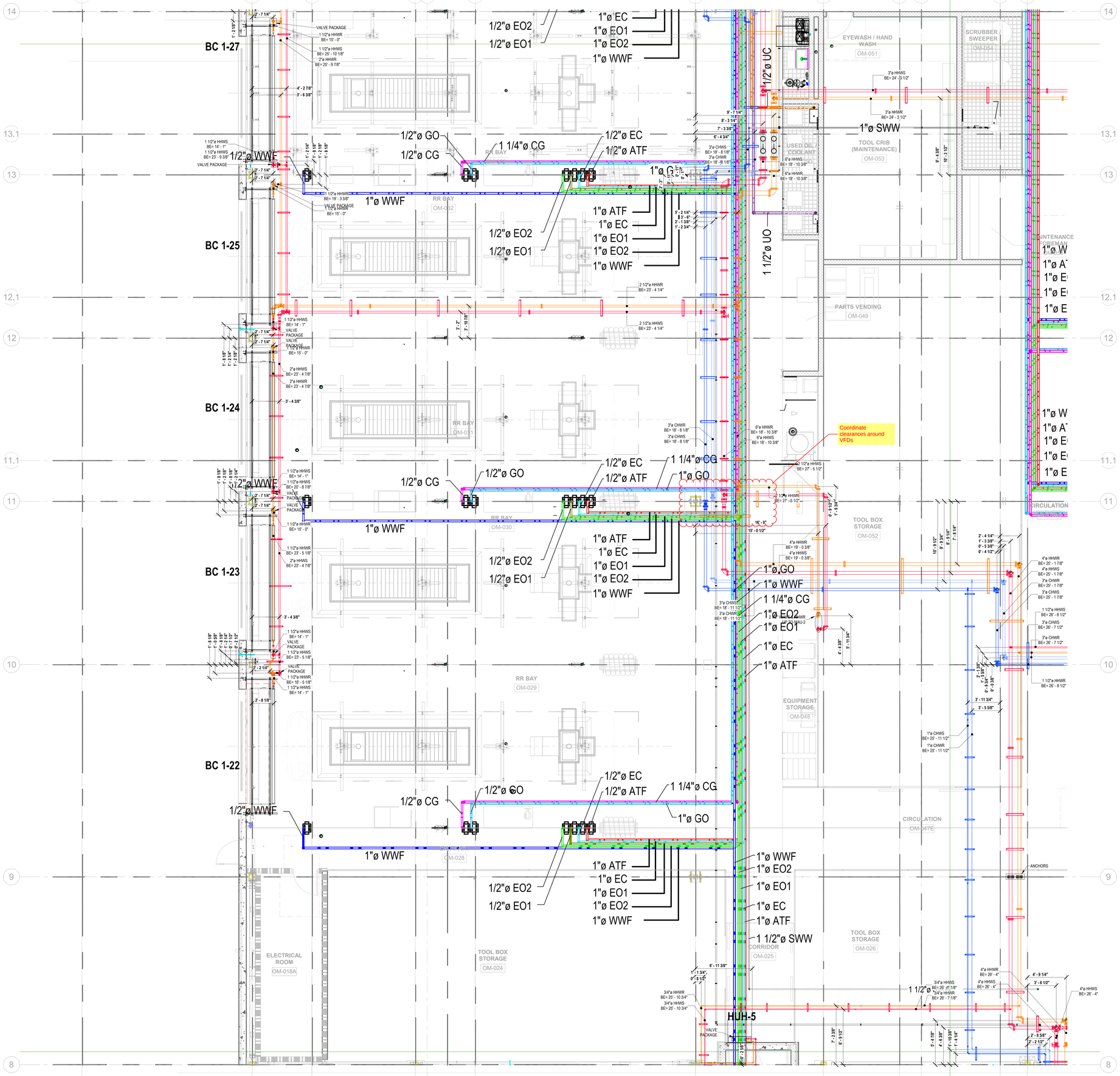
Level 01 Area 4B
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.4B

© 2021 Shapiro & Duncan Inc.

BIM 360://2160 WMATA Bladensburg Bus Garage/3D BIB/3R Mechanical.rvt
2/27/2024 1:25:12 PM



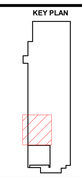
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

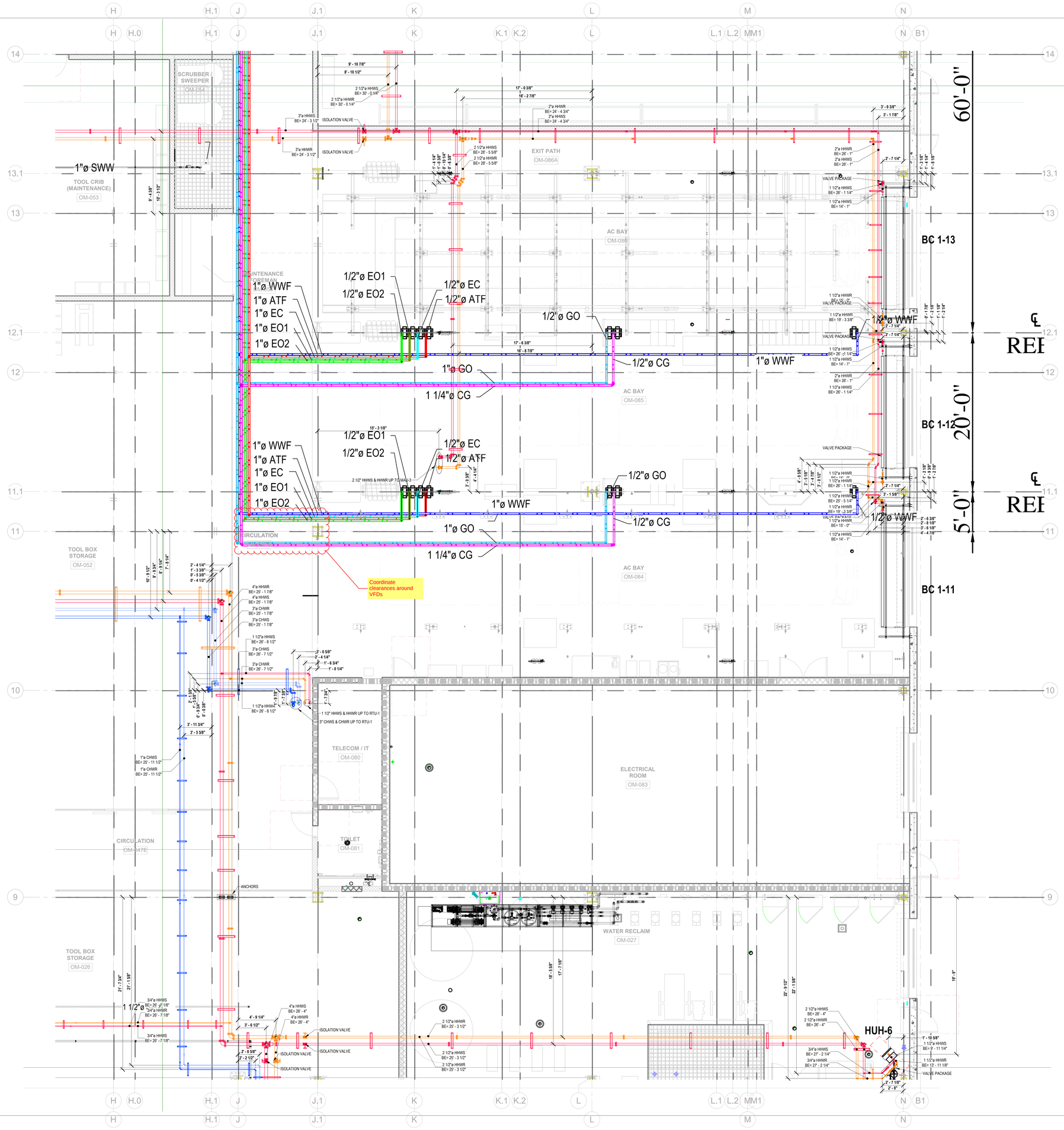
Level 01 Area 5A
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.5A

© 2021 Shapiro & Duncan Inc.

BIM 360://01ab1 HAMTA Bladensburg Bus Garage/SD BBGR Mechanical.rvt
2/27/2024, 12:20:20 PM



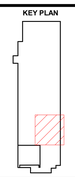
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

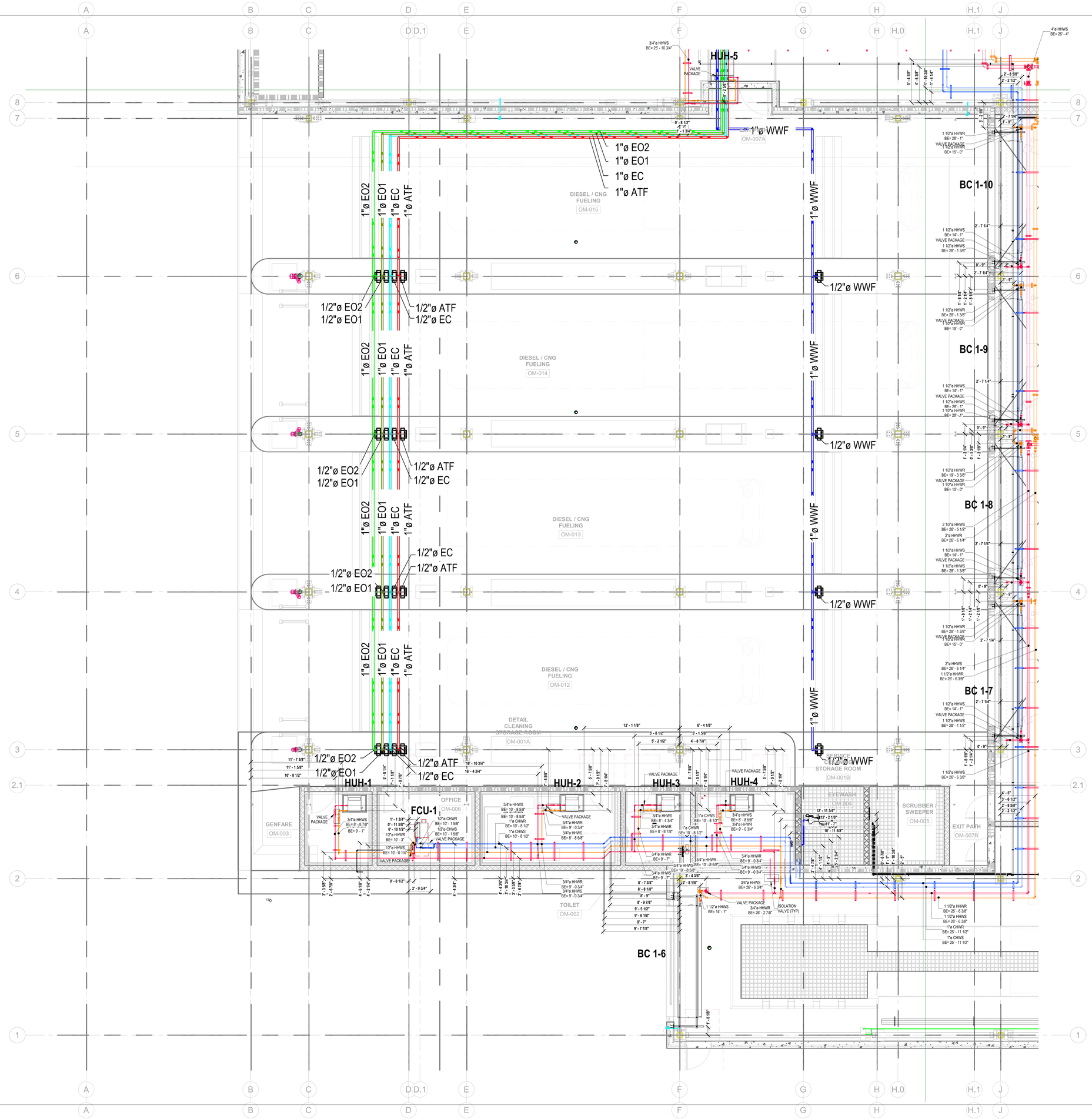
Level 01 Area 5B
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.5B

© 2021 Shapiro & Duncan Inc.

BIM 360://01(6)1/AMATA Bladensburg Bus Garage/SD BBGR Mechanical.rvt
2/27/2024 12:20:32 PM



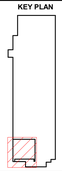
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6240
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/31/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

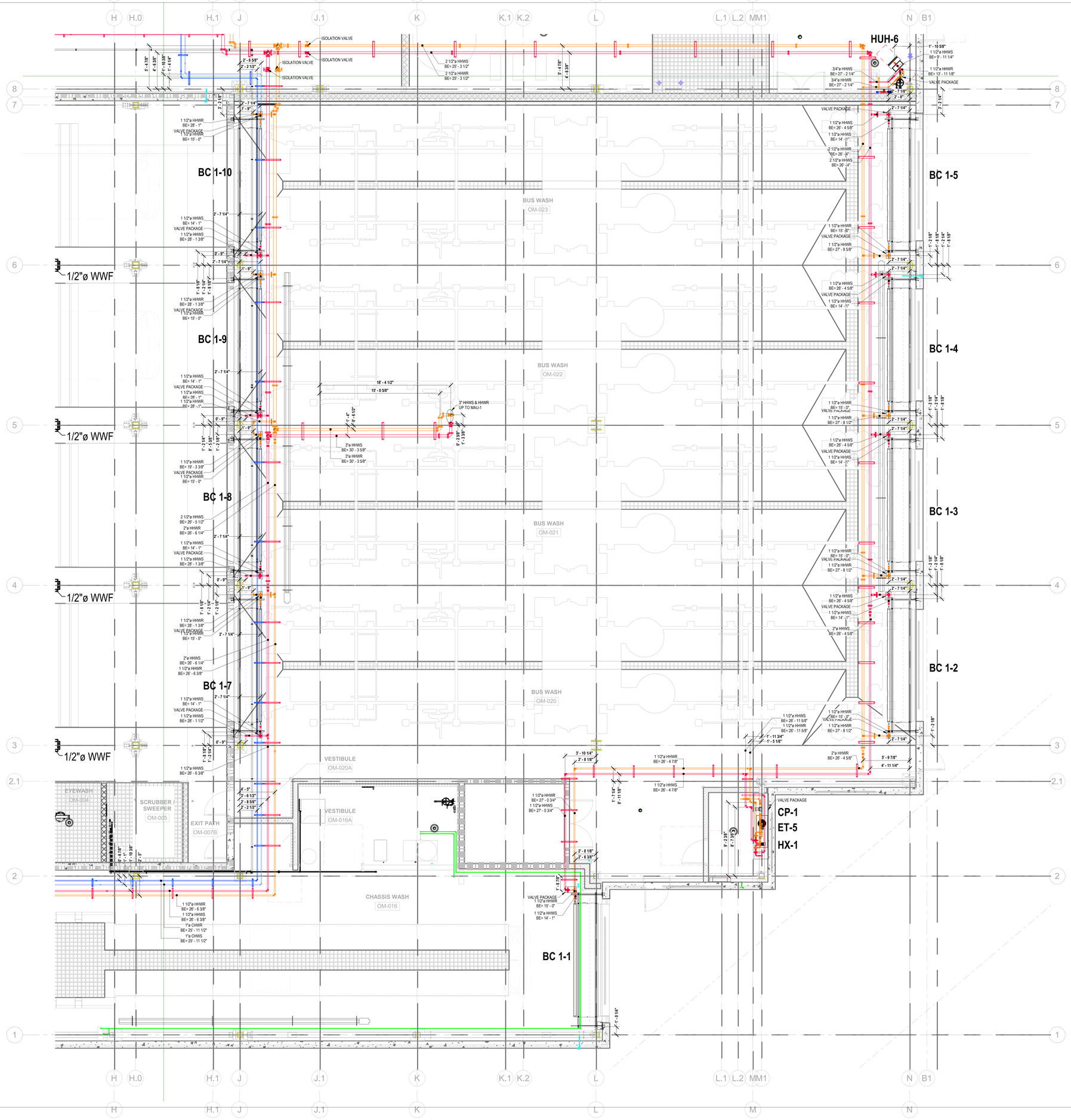
Level 01 Area 6A
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.6A

© 2021 Shapiro & Duncan Inc.

BIM 360://2160 HHWTA Bladensburg Bus Garage/3D BBGR Mechanical.rvt
2/27/2024 12:20:39 PM



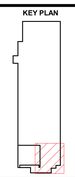
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6240
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION

NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/01/2023

© 2021 THE DRAWINGS AND DEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: 1/4" = 1'-0"
PLOT DATE: 02/28/23

DRAWING TITLE

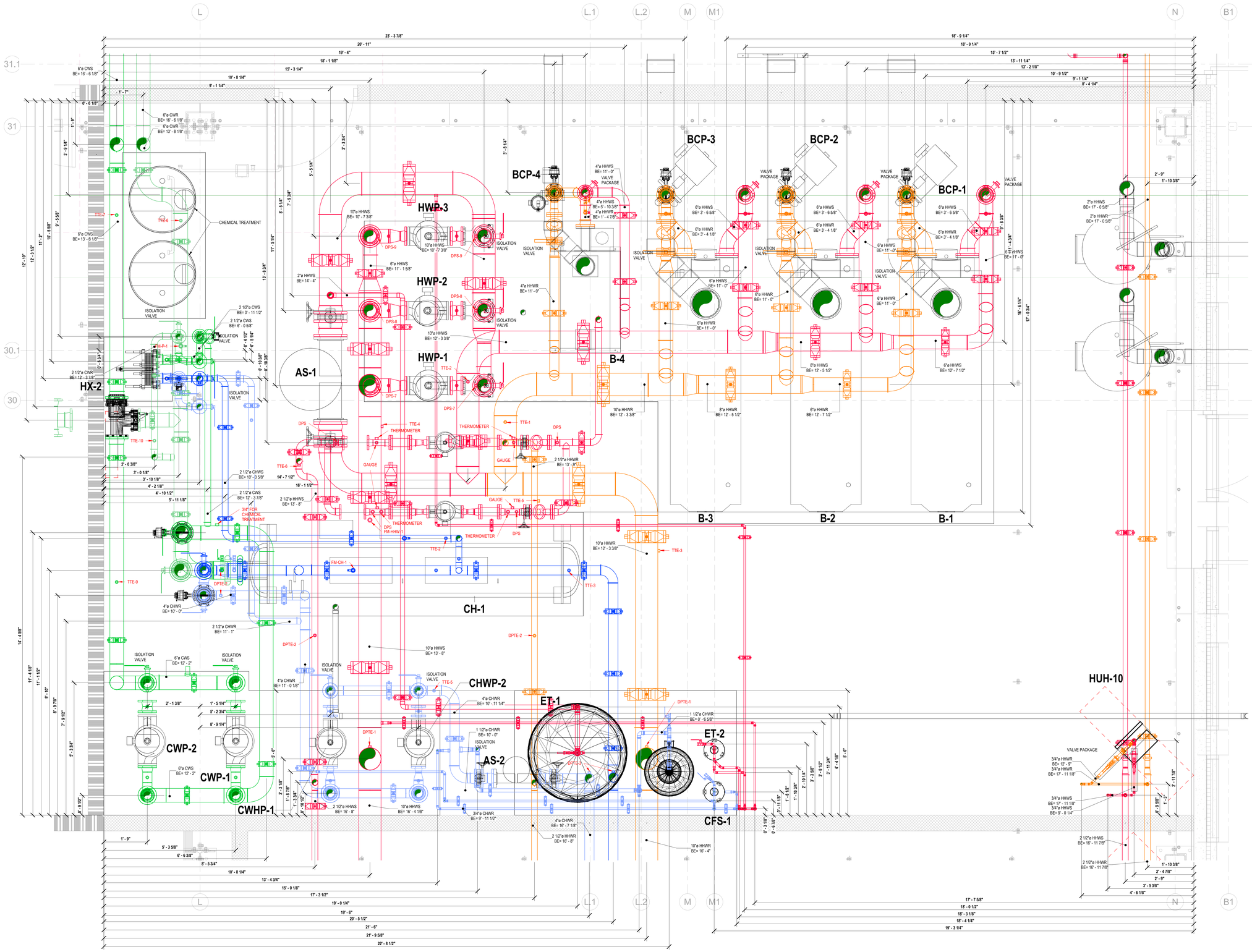
Level 01 Area 6B
Mechanical Piping Plan

DRAWING NUMBER

L01-MP-P.6B

© 2021 Shapiro & Duncan Inc.

B18-500-2/100 WMATA Bladensburg Bus Garage/SD BBGR Mechanical.rvt
2/27/2024 12:50:48 PM



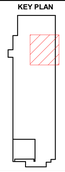
ABBREVIATION	
AS	AIR SEPARATOR
B	BOILER
BC	BLOWER CURTAIN
BCP	BOILER CIRCULATING PUMP
CFS	CHEMICAL FEEDER STORAGE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DN	DOWN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
HUH	HOT WATER UNIT HEATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
VAV	VARIABLE AIR VOLUME

Shapiro & Duncan MECHANICAL CONTRACTORS

DESIGN - BUILD
14620 Rothgeb Drive
Rockville, Maryland 20850
Tel. (301) 315 - 6260
www.shapiroandduncan.com

DRAWING NOTES

KEY PLAN



PROJECT NAME

Bladensburg Bus Garage

2251 26th Street NE
Washington, District of Columbia 20018
United States

ISSUANCES / REVISION		
NO.	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	03/31/2023

© 2021 THE DRAWINGS AND IDEAS CONTAINED HEREIN ARE THE PROPERTY OF SHAPIRO & DUNCAN INC. THEIR REPRODUCTION, OR USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION.

PROJECT NO: 2160
DRAWN BY:
CHECKED BY:
SPOOLED BY:
W.O. #
SCALE: As indicated
PLOT DATE: 02/28/23

DRAWING TITLE

Level 01 Mechanical Room Piping Plan

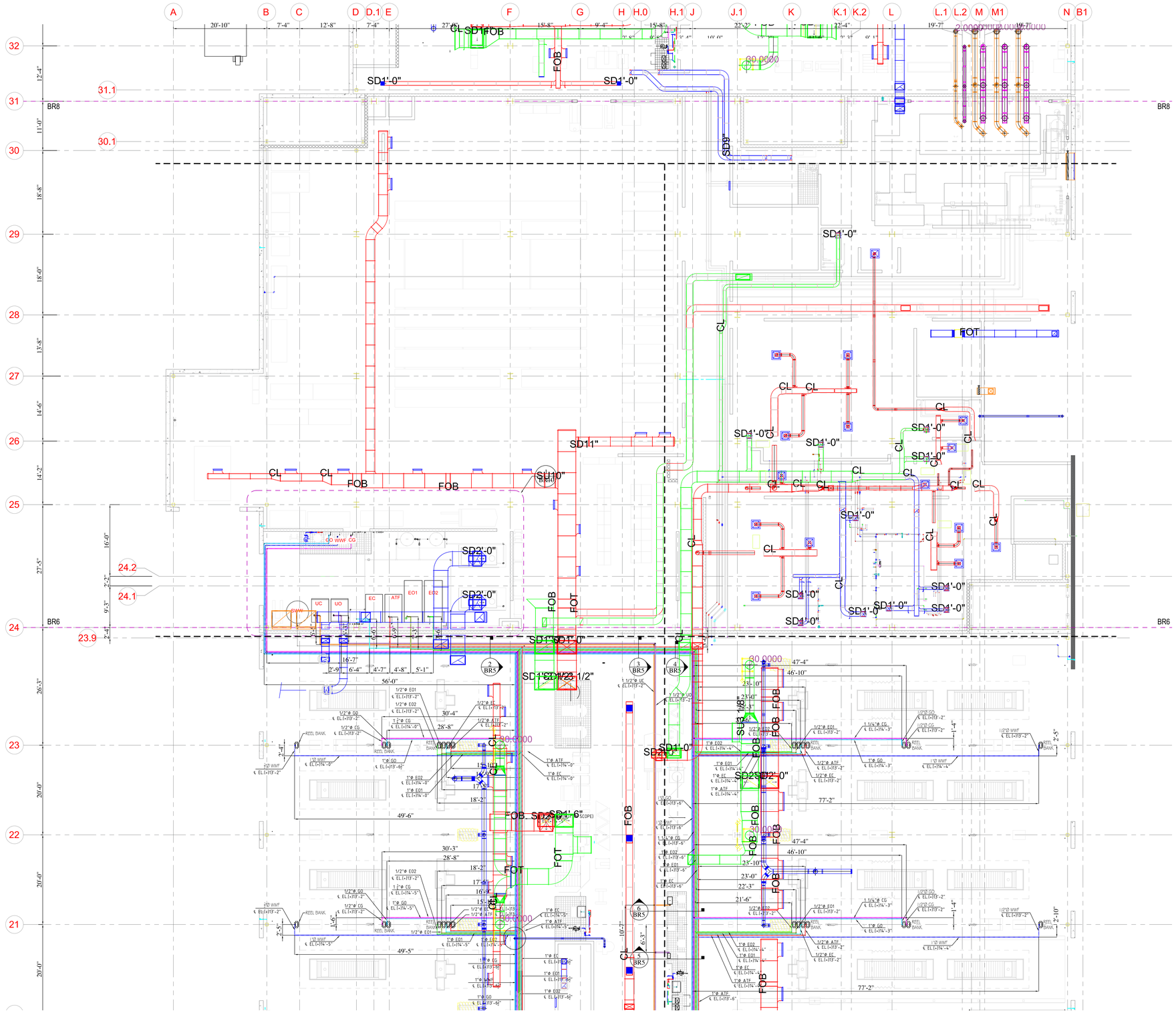
DRAWING NUMBER

L01-MP-P.MER

© 2021 Shapiro & Duncan Inc.

BIM 360://2160 WMATA Bladensburg Bus Garage/SD BBGR Mechanical.rvt
2/27/2024 12:50:53 PM

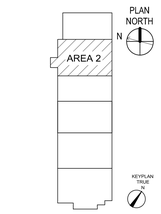
Ductwork



1 BR7 1ST FLOOR ABOVE GROUND PIPING- AREA 2 - LUBE SYSTEM
SCALE : 1/8" = 1'-0"

GENERAL NOTE:
1. PROVIDE A LINE SIZED BALL VALVE BEFORE EACH HOSE REEL TO ALLOW ISOLATION OF THE HOSE REEL FOR FUTURE MAINTENANCE WITHOUT IMPACTING THE ENTIRE LUBE FLUID SYSTEM.
2. LISTED ELEVATIONS ARE APPROXIMATIONS AND FINAL ELEVATIONS ARE TO BE SET BY THE PIPING INSTALLERS SUCH THAT ALL CONFLICTS ARE AVOIDED AND ALL NECESSARY PITCHES ARE MET.

ABBREVIATIONS
ATF - AUTOMATIC TRANSMISSION FLUID
CG - CHASSIS GREASE
EC - ENGINE COOLANT
EO1 - ENGINE OIL 1
EO2 - ENGINE OIL 2
GO - GEAR OIL
UC - USED COOLANT
UO - USED OIL
WWF - WINDSHIELD WASHER FLUID



KEY PLAN
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

..\..\LOGO\B&R\B&R Associates Logo.jpg

7954 CESSNA AVENUE
GAITHERSBURG, MD 20879
PHONE: 301-417-7777
TOLL FREE: 1-800-213-3390
FAX: 301-417-7777

General Notes

WMATA BLADENSBURG
NEW CONSTRUCTION

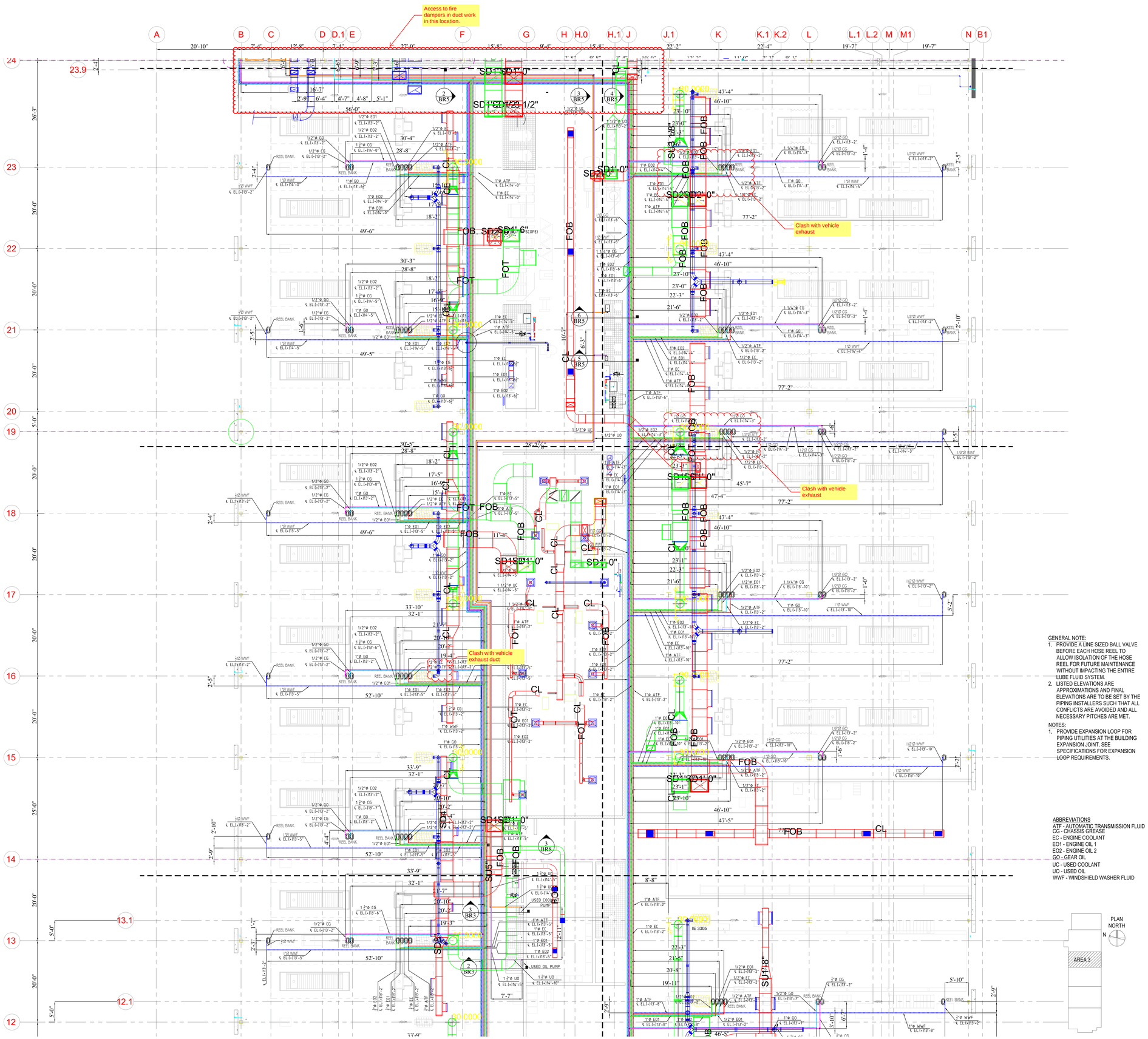
2250 26TH ST NE,
WASHINGTON, DC 20018

REVISIONS:

NO.	DATE	DESCRIPTION
7		
6		
5		
4		
3		
2		
1	09-16-2022	ISSUED FOR REVIEW

SHEET TITLE:
1ST FLOOR ABOVE GROUND PIPING - AREA 2

SCALE: 1/8" = 1'-0"
DATE: 9/16/2022
ISSUED FOR: REVIEW
DRAWN BY: JK
CHECKED BY: GD
QC BY: RS
DRAWING NO. BR7



GENERAL NOTE:
1. PROVIDE A LINE SIZED BALL VALVE BEFORE EACH HOSE REEL TO ALLOW ISOLATION OF THE HOSE REEL FOR FUTURE MAINTENANCE WITHOUT IMPACTING THE ENTIRE LUBE FLUID SYSTEM.
2. LISTED ELEVATIONS ARE APPROXIMATIONS AND FINAL ELEVATIONS ARE TO BE SET BY THE PIPING INSTALLERS SUCH THAT ALL CONFLICTS ARE AVOIDED AND ALL NECESSARY PITCHES ARE MET.

NOTES:
1. PROVIDE EXPANSION LOOP FOR PIPING UTILITIES AT THE BUILDING EXPANSION JOINT. SEE SPECIFICATIONS FOR EXPANSION LOOP REQUIREMENTS.

ABBREVIATIONS
ATF - AUTOMATIC TRANSMISSION FLUID
CG - CHASSIS GREASE
EC - ENGINE COOLANT
EO1 - ENGINE OIL 1
EO2 - ENGINE OIL 2
GO - GEAR OIL
UC - USED COOLANT
UO - USED OIL
WWF - WINDSHIELD WASHER FLUID

1 BR6 1ST FLOOR ABOVE GROUND PIPING - AREA 3 - LUBE SYSTEM

..\..\LOGO\B&R\B&R Associates Logo.jpg

7954 CESSNA AVENUE
GAITHERSBURG, MD 20879
PHONE: 301-417-7777
TOLL FREE: 1-800-213-3390
FAX: 301-417-7777

General Notes

WMATA BLADENSBURG NEW CONSTRUCTION

2250 26TH ST NE, WASHINGTON, DC 20018

REVISIONS:

NO.	DATE	DESCRIPTION
7		
6		
5		
4		
3		
2		
1	09-16-2022	ISSUED FOR REVIEW

SHEET TITLE:

1ST FLOOR ABOVE GROUND PIPING - AREA 3

SCALE: 1/8" = 1'-0"

DATE: 9/16/2022

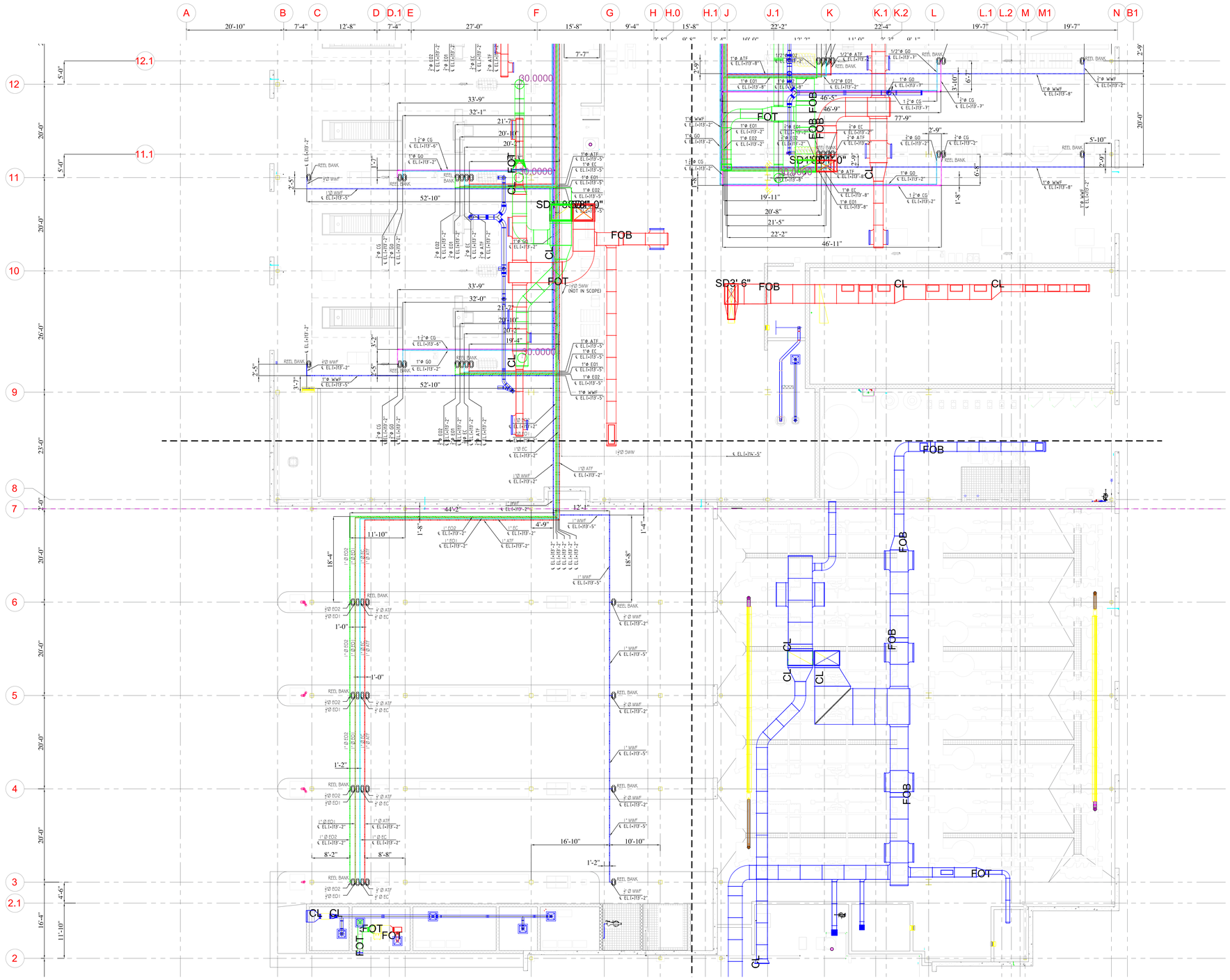
ISSUED FOR: REVIEW

DRAWN BY: JK

CHECKED BY: GD

QC BY: RS

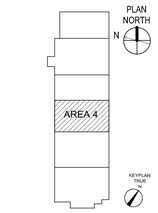
DRAWING NO. BR6



1 / BR5 1ST FLOOR ABOVE GROUND PIPING - AREA 4 - LUBE SYSTEM
SCALE : 1/8" = 1'-0"

GENERAL NOTE:
1. PROVIDE A LINE SIZED BALL VALVE BEFORE EACH HOSE REEL TO ALLOW ISOLATION OF THE HOSE REEL FOR FUTURE MAINTENANCE WITHOUT IMPACTING THE ENTIRE LUBE FLUID SYSTEM.
2. LISTED ELEVATIONS ARE APPROXIMATIONS AND FINAL ELEVATIONS ARE TO BE SET BY THE PIPING INSTALLERS SUCH THAT ALL CONFLICTS ARE AVOIDED AND ALL NECESSARY PITCHES ARE MET.

ABBREVIATIONS
ATF - AUTOMATIC TRANSMISSION FLUID
CG - CHASSIS GREASE
EC - ENGINE COOLANT
EO1 - ENGINE OIL 1
EO2 - ENGINE OIL 2
GO - GEAR OIL
UC - USED COOLANT
UO - USED OIL
WWF - WINDSHIELD WASHER FLUID



KEY PLAN

0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

..\..\LOGO\B&R\B&R Associates Logo.jpg

7954 CESSNA AVENUE
GAITHERSBURG, MD 20879
PHONE: 301-417-7777
TOLL FREE: 1-800-213-3390
FAX: 301-417-7777

General Notes

WMATA BLADENSBURG
NEW CONSTRUCTION

2250 26TH ST NE,
WASHINGTON, DC 20018

REVISIONS:

NO.	DATE	DESCRIPTION
7		
6		
5		
4		
3		
2		
1	09-16-2022	ISSUED FOR REVIEW

SHEET TITLE:

1ST FLOOR
ABOVE GROUND
PIPING - AREA 4

SCALE: 1/8" = 1'-0"

DATE: 9/16/2022

ISSUED FOR: REVIEW

DRAWN BY: JK

CHECKED BY: GD

QC BY: RS

DRAWING NO. BR5