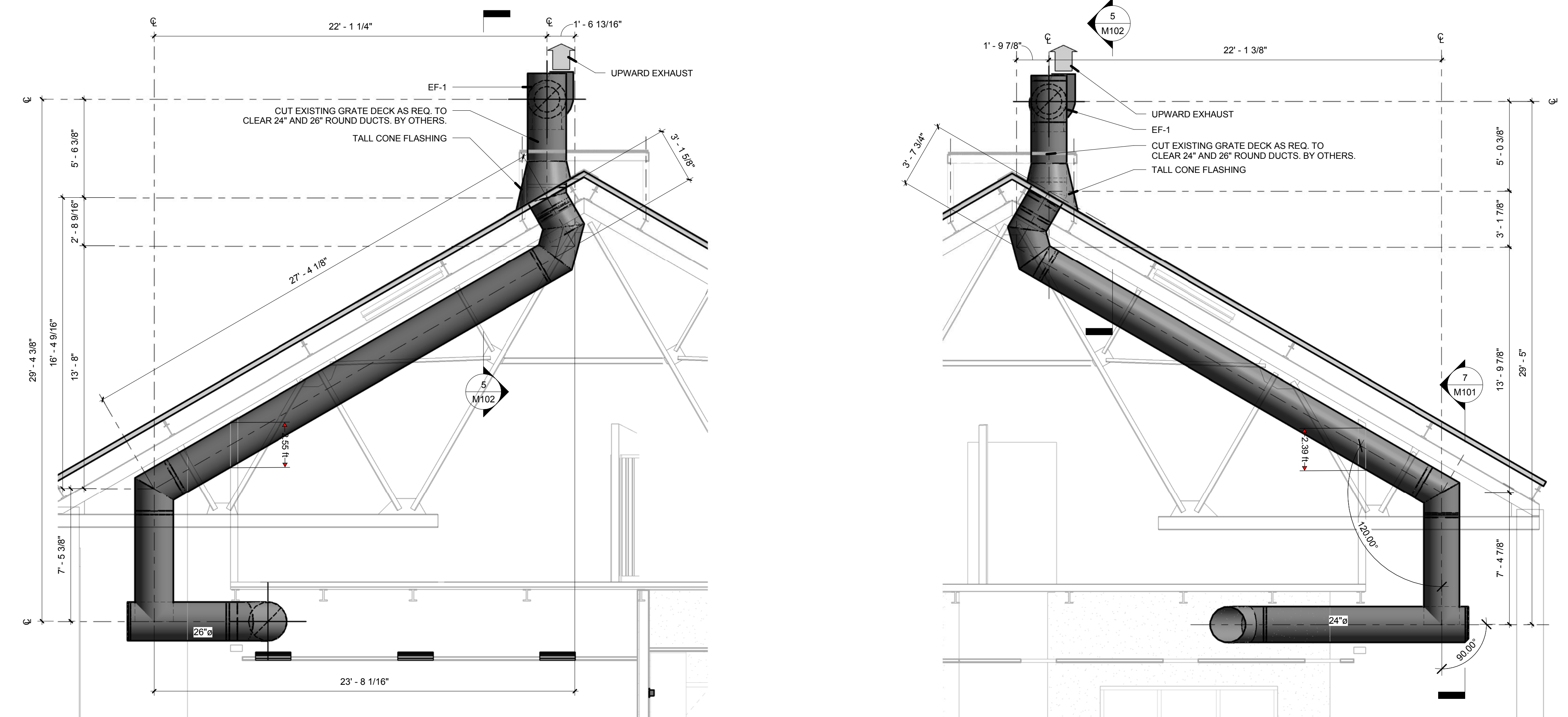


1 FIRST FLOOR DUCT FLOOR PLAN
1/4" = 1'-0"

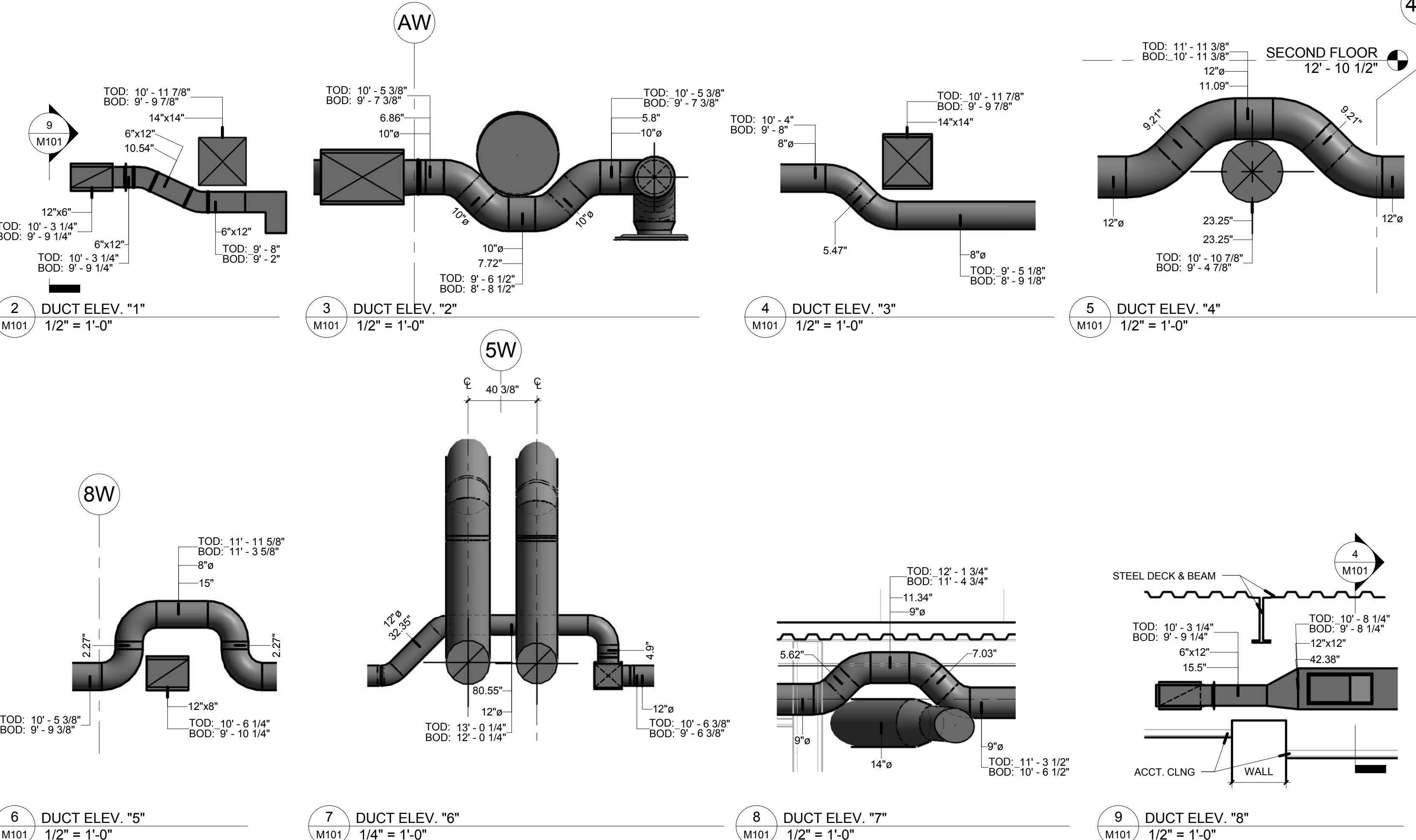
NOTES

- M02 NEW RETURN DUCTWORK. OPEN-END TO RETURN AIR PLENUM ABOVE CEILING. SEE M102 FOR CONTINUATION.
- M07 LINED (1.5") TRANSFER DUCT, CONNECT TO GRILLE IN CEILING, RUN AS SHOWN AND OPEN END TO PLENUM ABOVE CEILING.
- M09 RETURN DUCT ABOVE CEILING WITH (2) MOTORIZED 2-POSITION DAMPERS.
- M10 SUPPLY REGISTER IN BOTTOM OF DUCT. DIRECT AIR TOWARDS INTERIOR OF SPACE (TYP. OF 4).
- M11 CONNECT NEW EXHAUST DUCT TO KITCHEN EXHAUST HOOD. SEE M102 FOR CONTINUATION. HOOD PROVIDED BY OTHERS.
- M20 CONNECT 4" DUCT TO DRYER VENT. RUN UP IN WALL, ABOVE CEILING AND EXPOSED TO EXTERIOR WALL. TERMINATE WITH SEIHO CAP. DRYER PROVIDED BY OTHERS.
- M21 NEW EXHAUST GRILLE WITH TWO-POSITION LOW-LEAKAGE MOTORIZED DAMPER IN NECK. OPEN END TO PLENUM ABOVE CEILING. LETTER DESIGNATION IS CORRESPONDING VAV BOX OPERATION TO OPEN OR CLOSE DAMPER (TYP. OF 6).
- M22 MOTORIZED DAMPER ON RETURN DUCT RUNS (2) AND OUTSIDE AIR (1).
- M23 ALL NEW CONCEALED SUPPLY AND RETURN DUCT TO HAVE 2" FIBERGLASS DUCT WRAP. EXPOSED DUCT DOES NOT REQUIRE INSULATION UNLESS NOTED TO BE LINED.



12 KITCHEN EXHAUST DUCT ELEV. '1'
1/4" = 1'-0"

13 KITCHEN EXHAUST DUCT ELEV. '2'
1/4" = 1'-0"



2 DUCT ELEV. '1'
1/2" = 1'-0"

3 DUCT ELEV. '2'
1/2" = 1'-0"

4 DUCT ELEV. '3'
1/2" = 1'-0"

5 DUCT ELEV. '4'
1/2" = 1'-0"

6 DUCT ELEV. '5'
1/2" = 1'-0"

7 DUCT ELEV. '6'
1/4" = 1'-0"

8 DUCT ELEV. '7'
1/2" = 1'-0"

9 DUCT ELEV. '8'
1/2" = 1'-0"

10 DUCT ELEV. '9'
1/2" = 1'-0"

11 DUCT ELEV. '10'
1/2" = 1'-0"

14 DUCT ELEV. '11'
1/2" = 1'-0"

No.	Description	Date

CONCAT
CULINARY ARTS

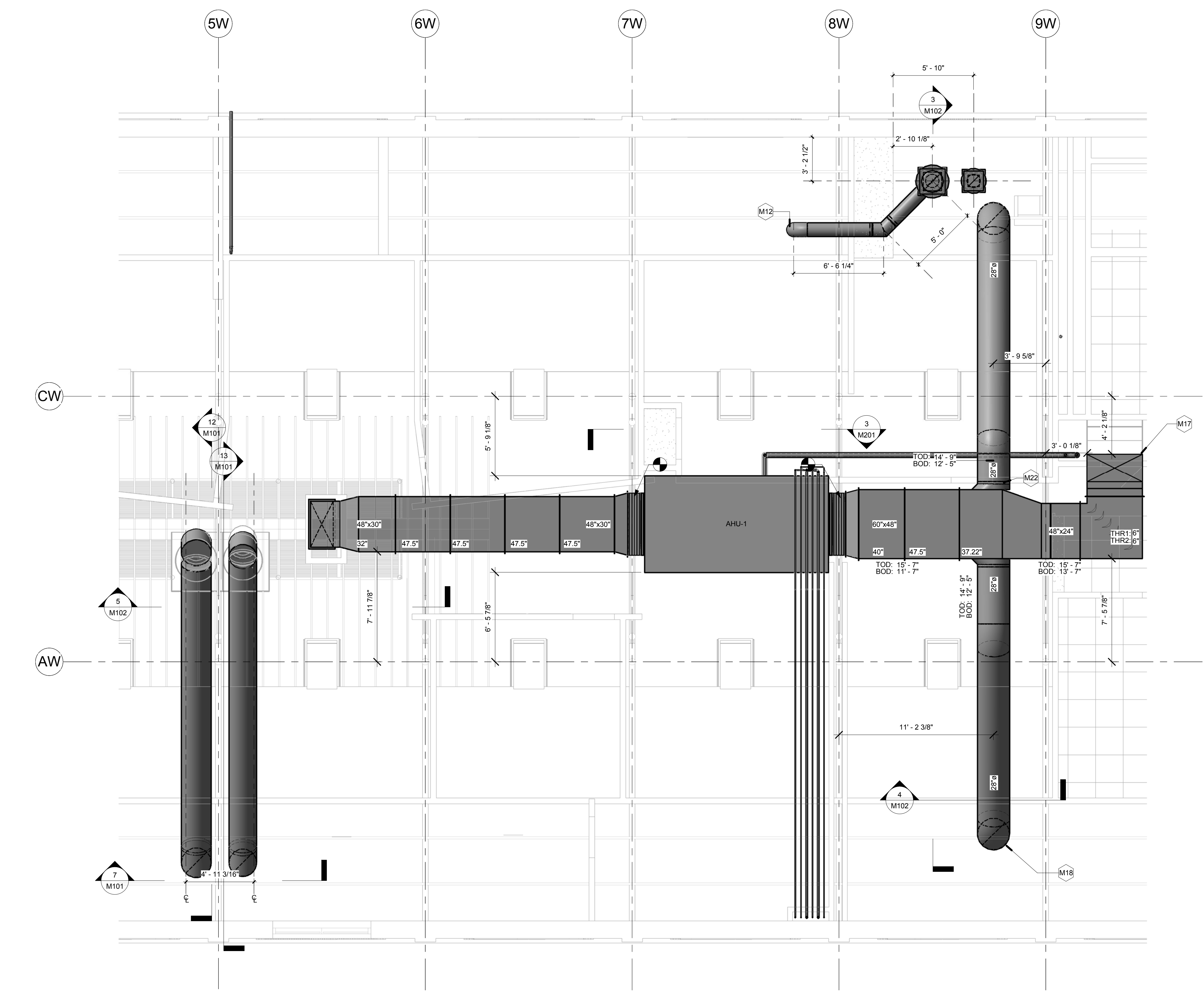
4 SCIENCE PARK
NEW HAVEN, CT 06511

DUCT PLANS
LOWER LVL.

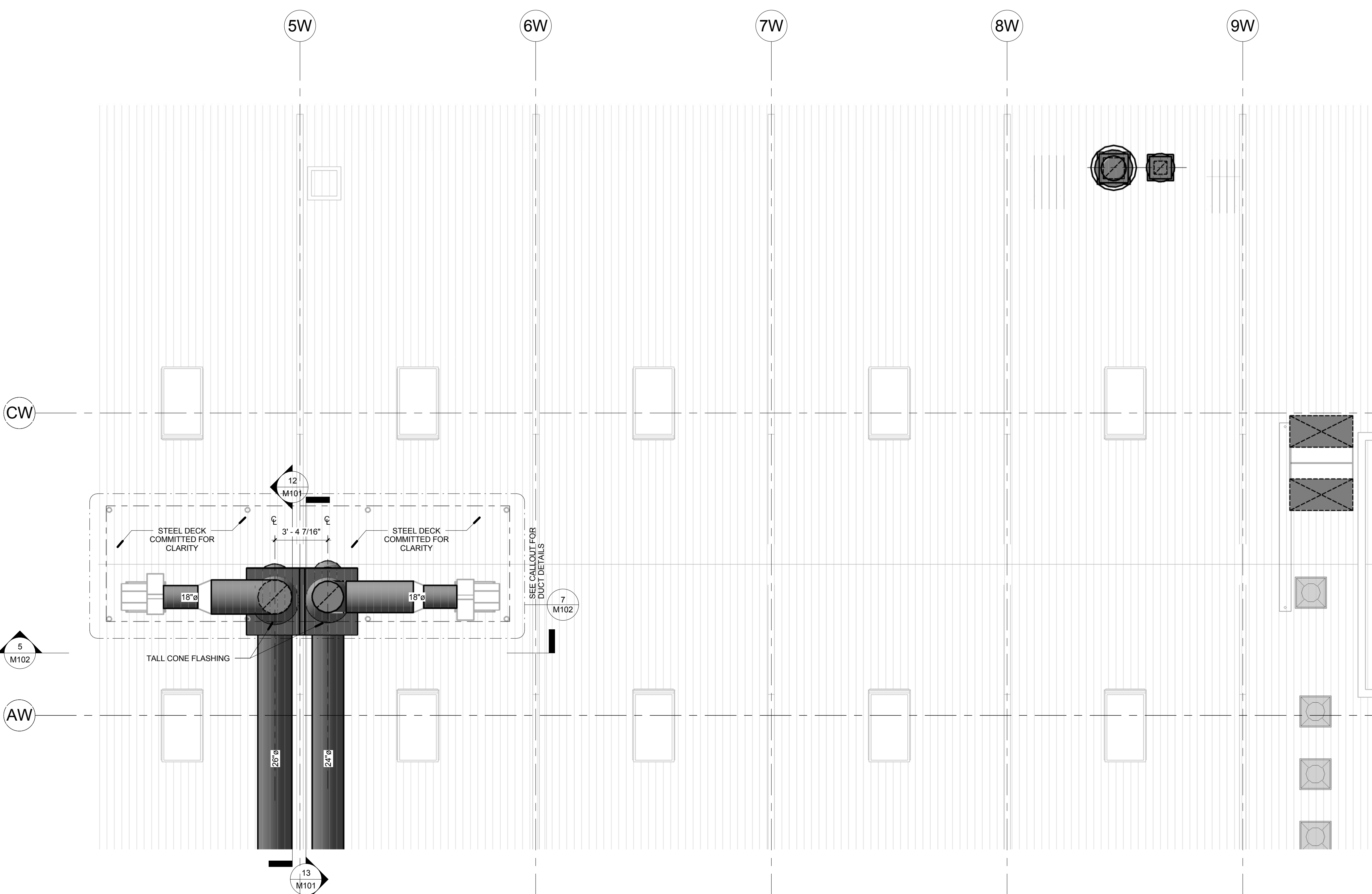
Project Number 4397
Date 09.04.15
Drawn By C. Colon
Checked By T. Huizinga

M101

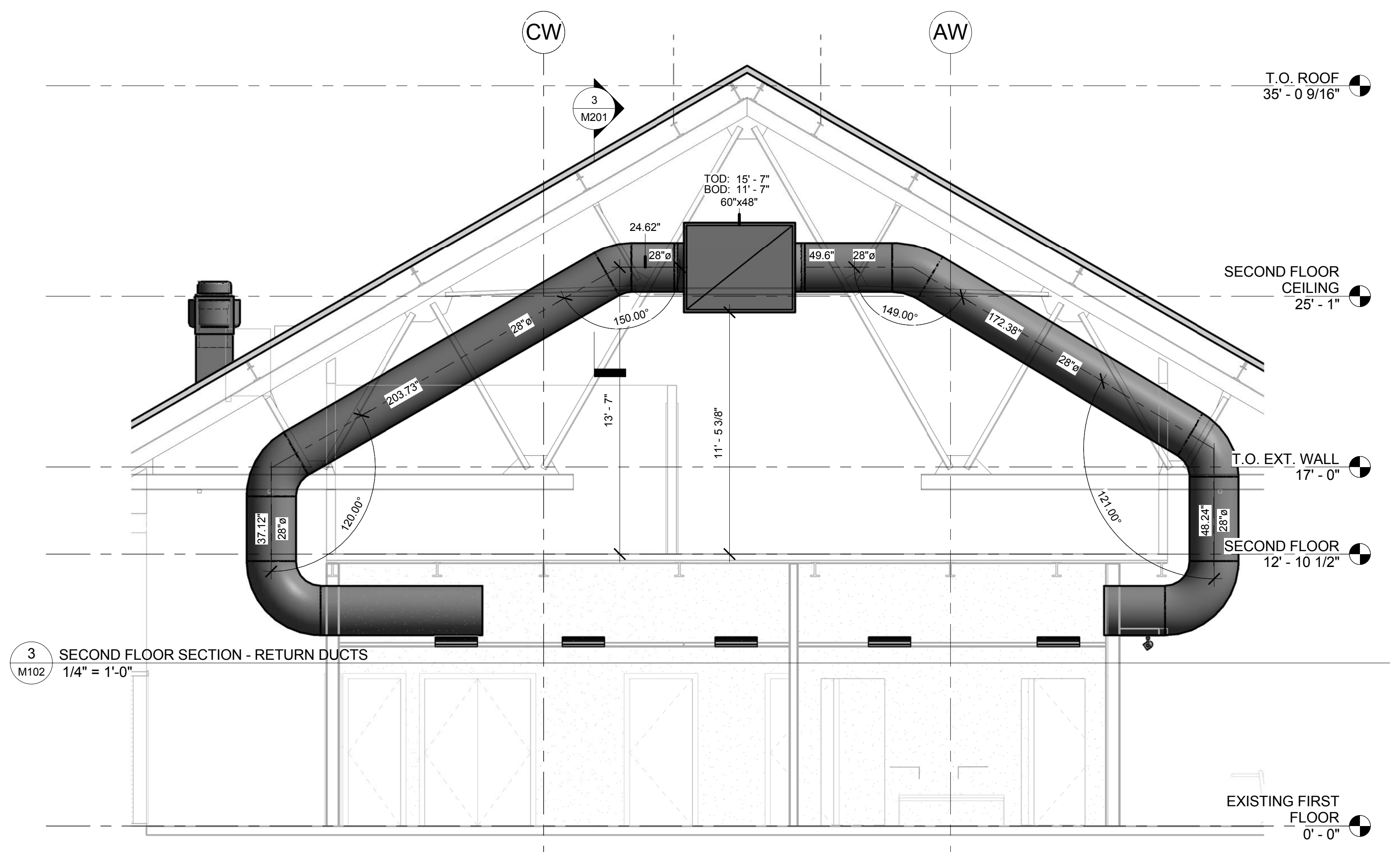
Scale As indicated



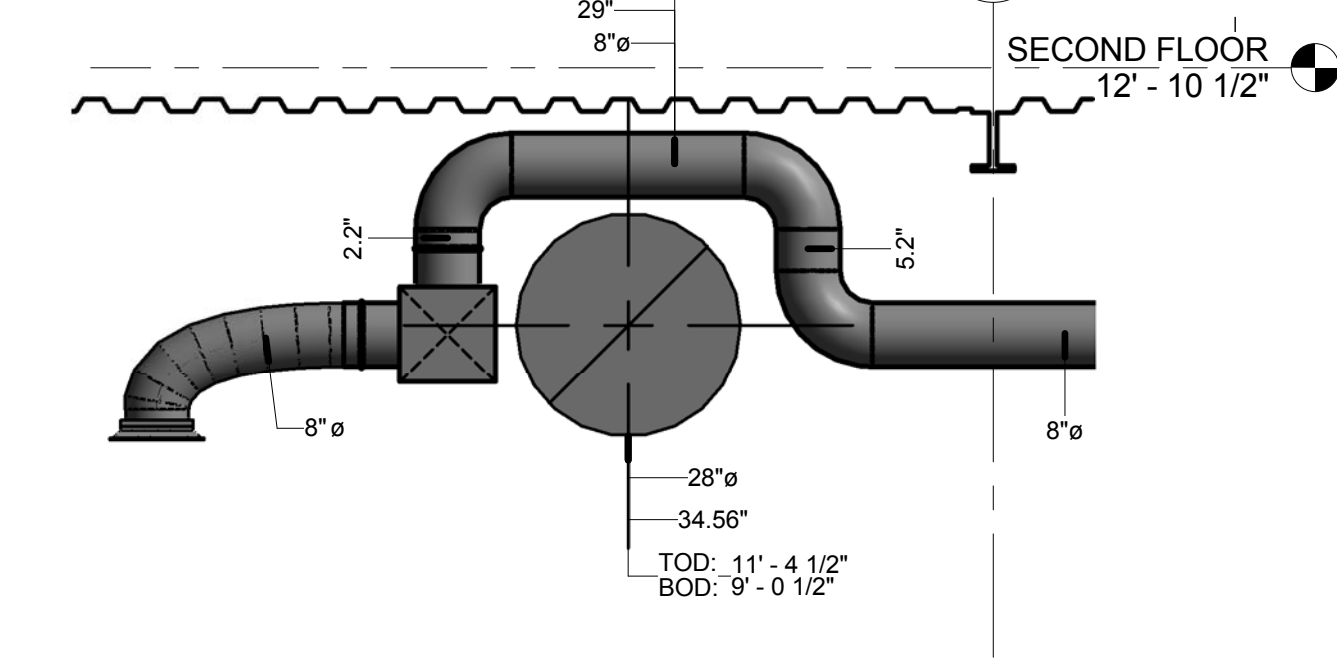
1 SECOND FLOOR DUCT FLOOR PLAN
 1/4" = 1'-0"



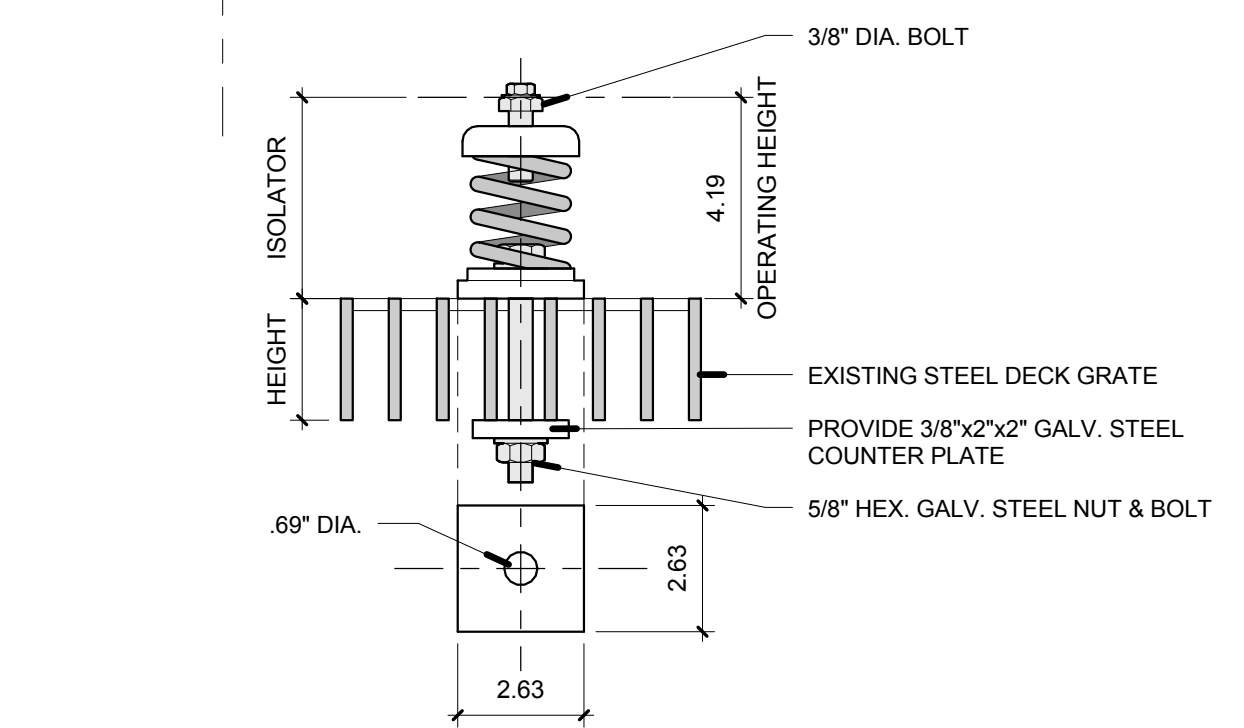
2 ROOF DUCT FLOOR PLAN
 1/4" = 1'-0"



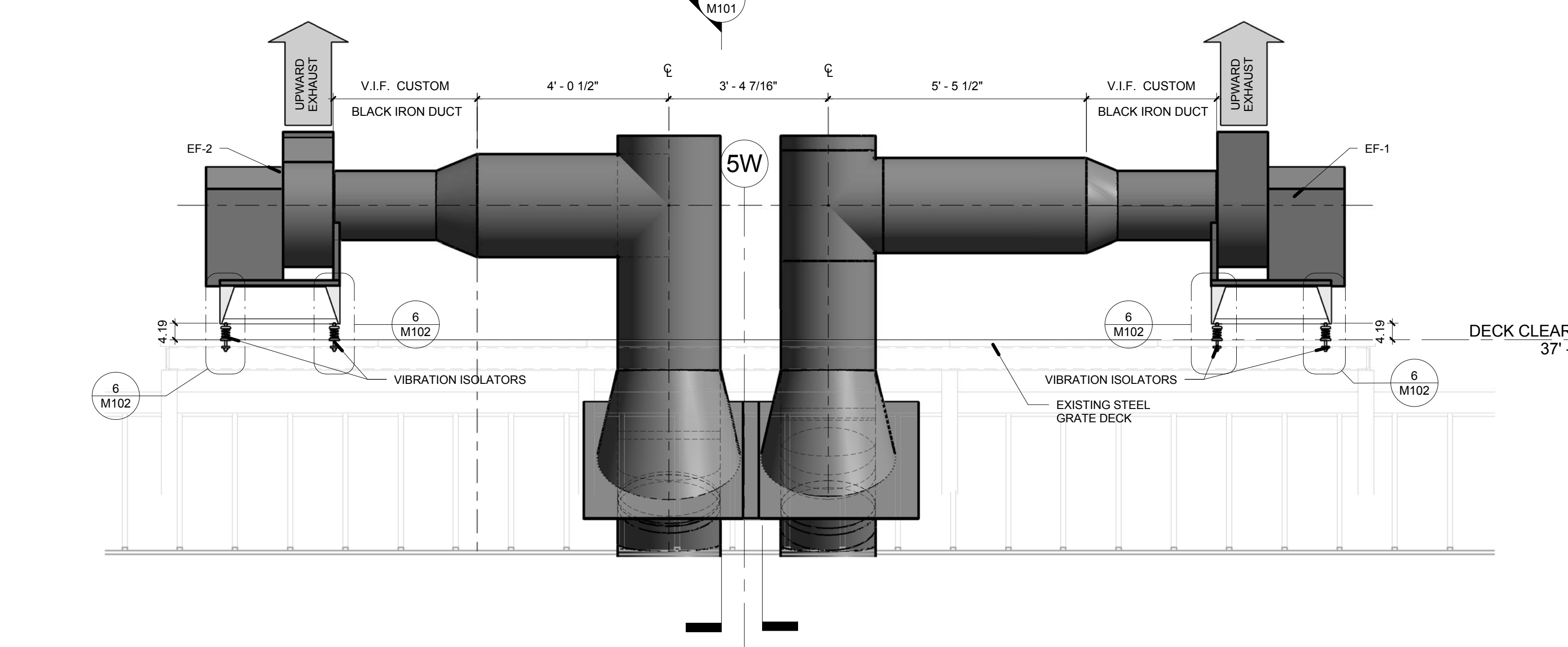
3 SECOND FLOOR SECTION - RETURN DUCTS
 1/4" = 1'-0"



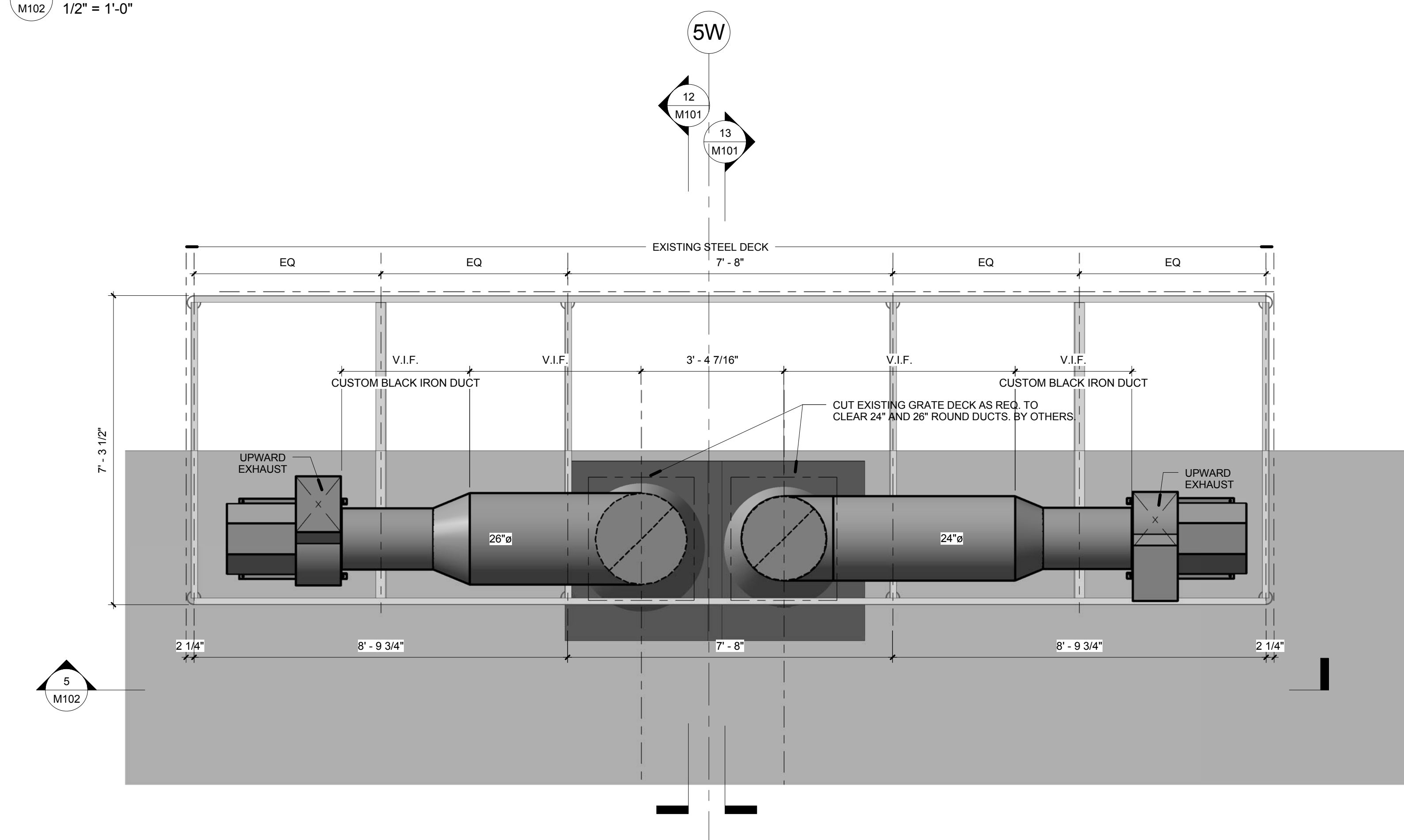
4 DUCT DTL. "1"
 1/2" = 1'-0"



6 VIBRATION ISOLATOR DTL.
 3" = 1'-0"



5 ROOF DECK SECTION "1"
 1/2" = 1'-0"



7 DECK CLEARANCE
 1/2" = 1'-0"

NOTES

M12	KITCHEN EXHAUST DUCT UP FROM FIRST FLOOR.
M17	NEW 48X24 OUTSIDE AIR DUCT FROM ROOF. SEE 2/M102.
M18	RETURN DUCT UP FROM FIRST FLOOR.
M22	MOTORIZED DAMPER ON RETURN DUCT RUNS (2) AND OUTSIDE AIR (1).

No.	Description	Date

**CONNCAT
 CULINARY ARTS**

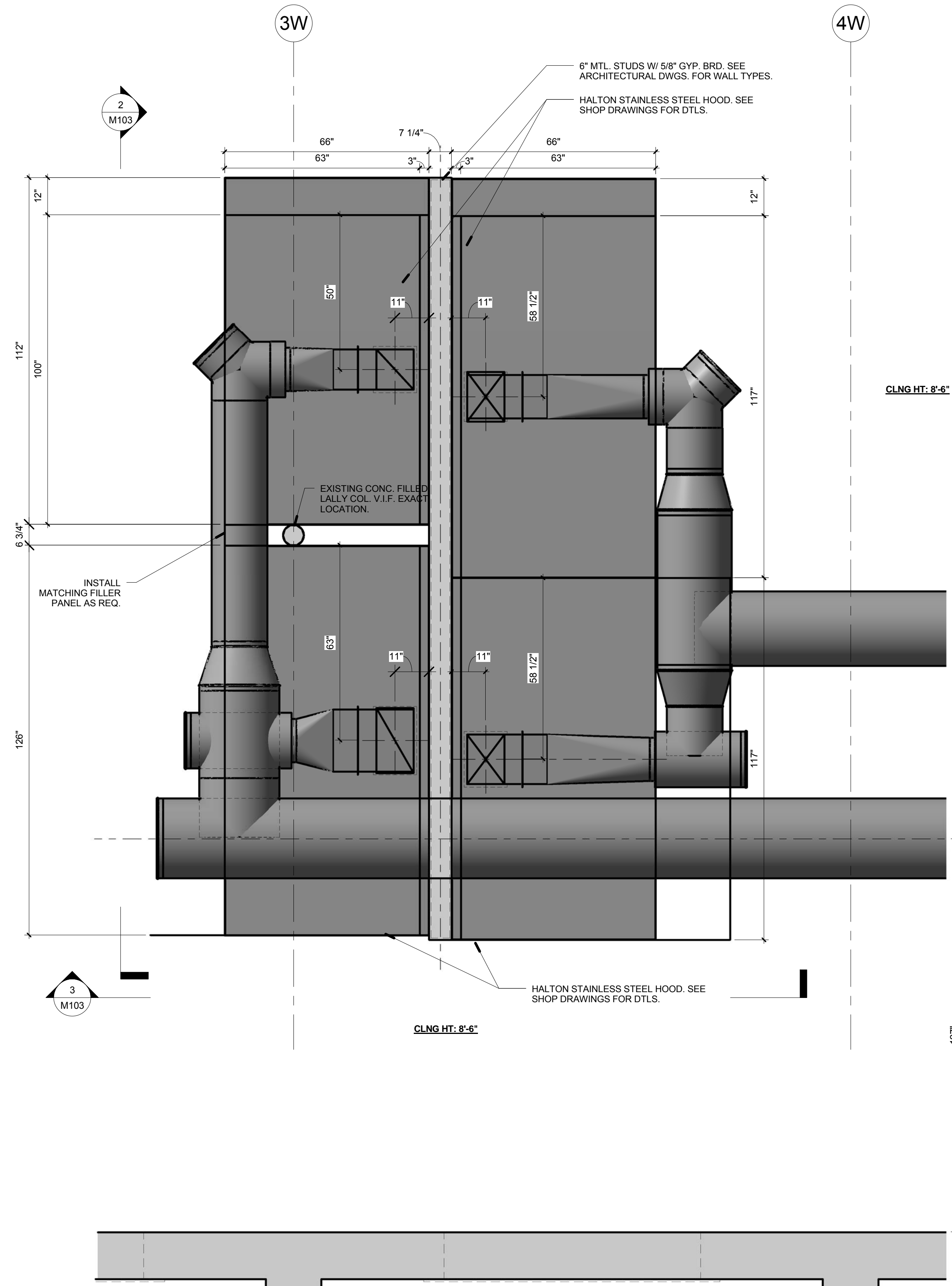
4 SCIENCE PARK
 NEW HAVEN, CT 06511

**DUCT PLANS
 UPPER LVL.**

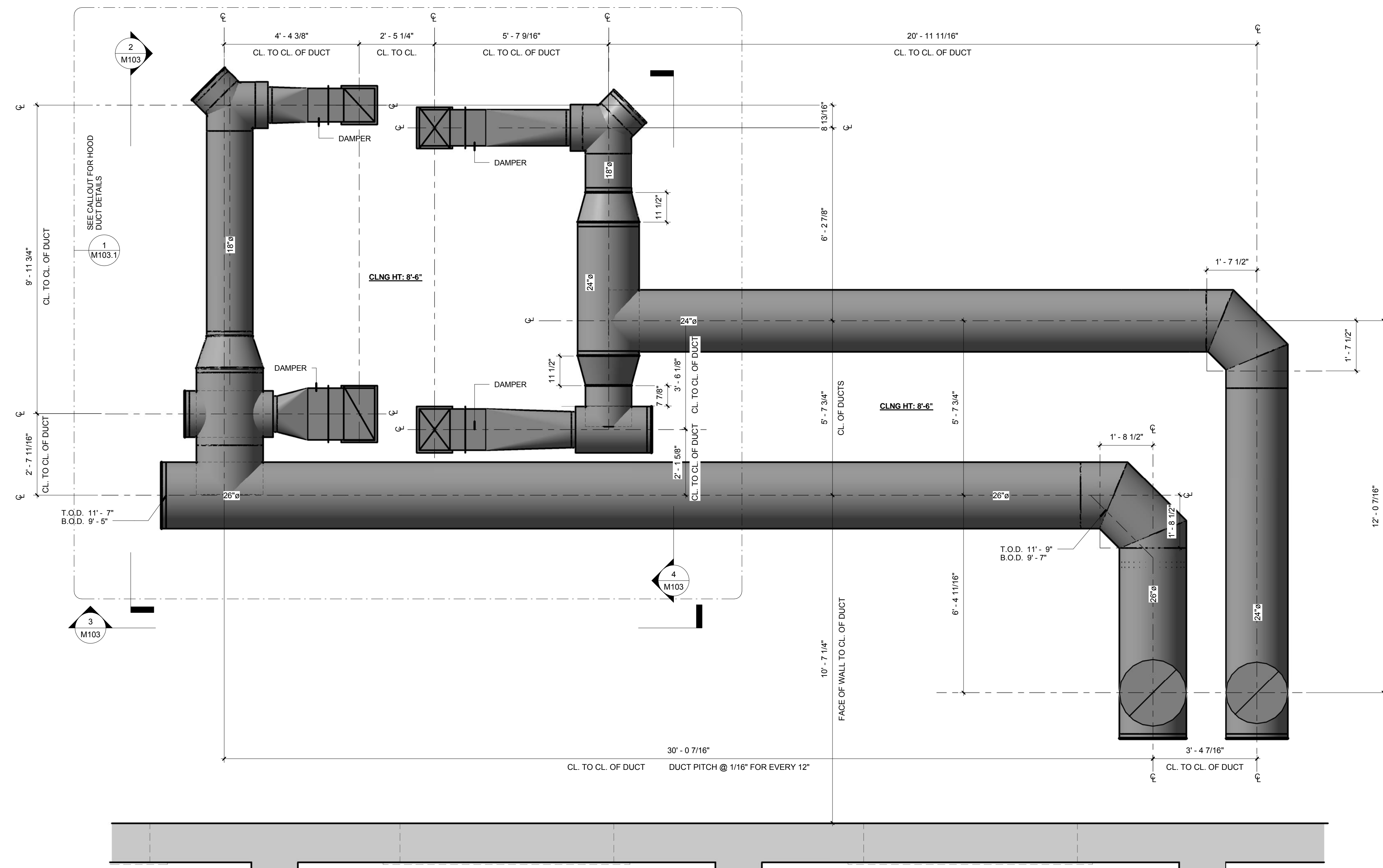
Project Number 4397
 Date 09.04.15
 Drawn By C. Colon
 Checked By T. Huizinga

M102

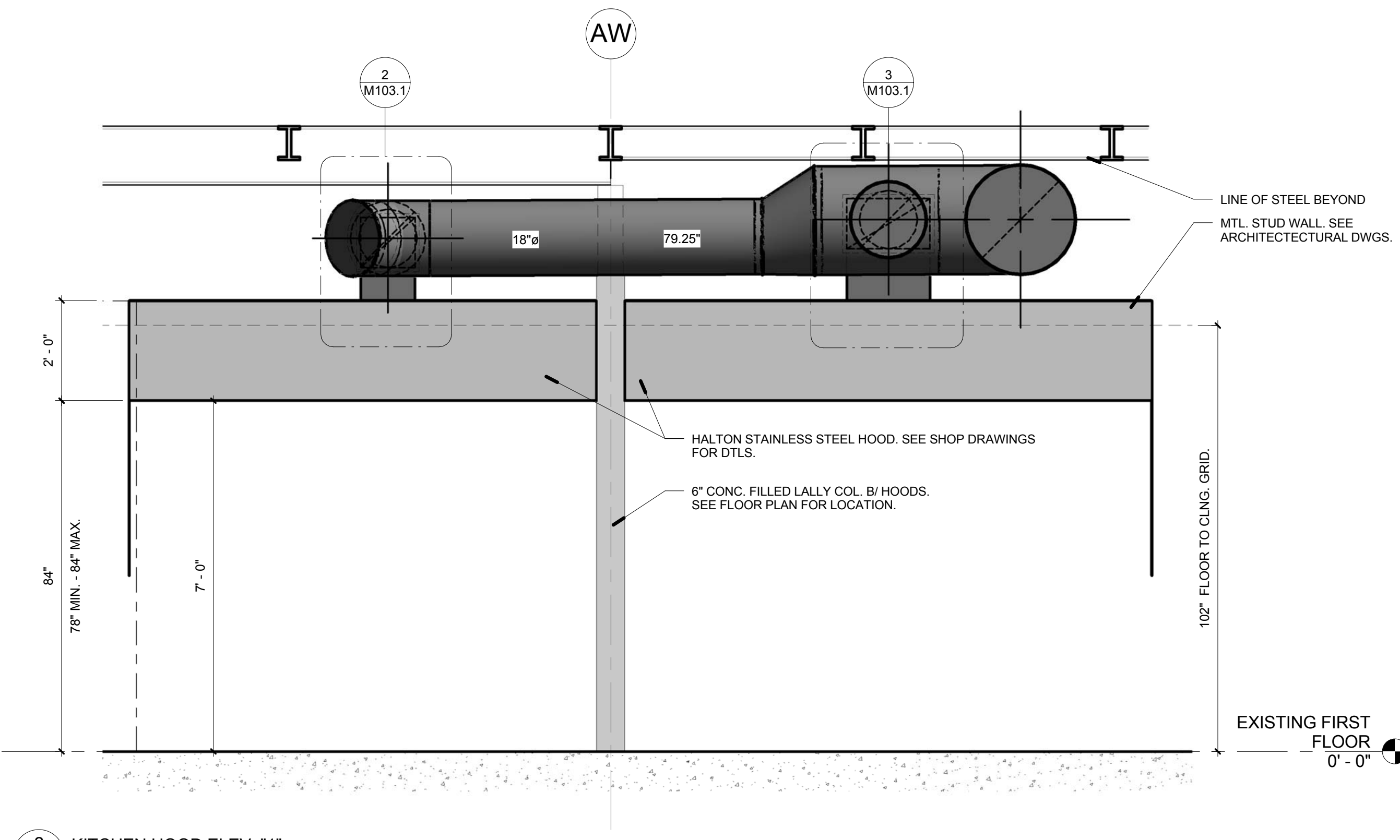
Scale As indicated



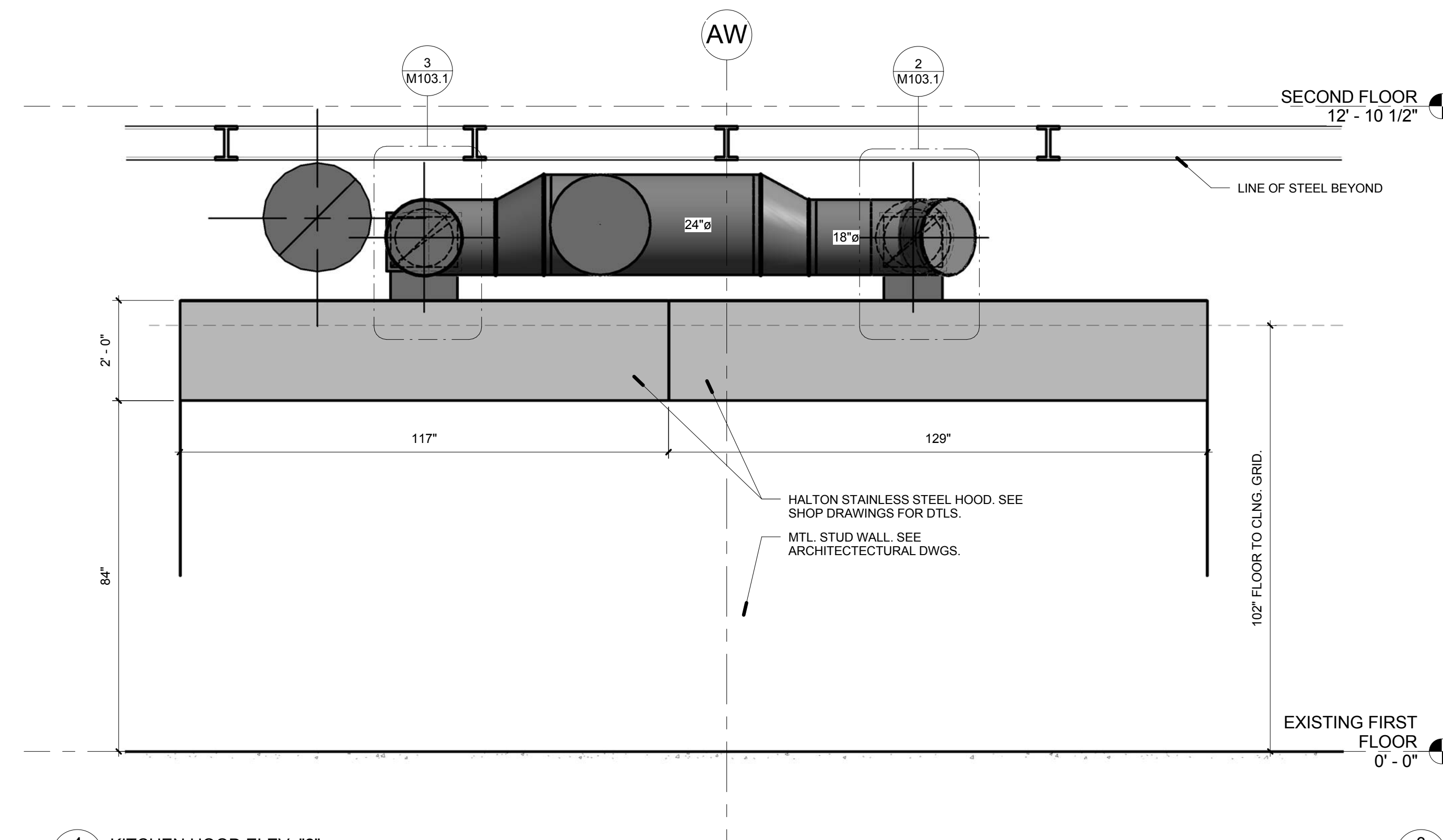
1 KITCHEN HOOD DUCT PLAN
1/2" = 1'-0"



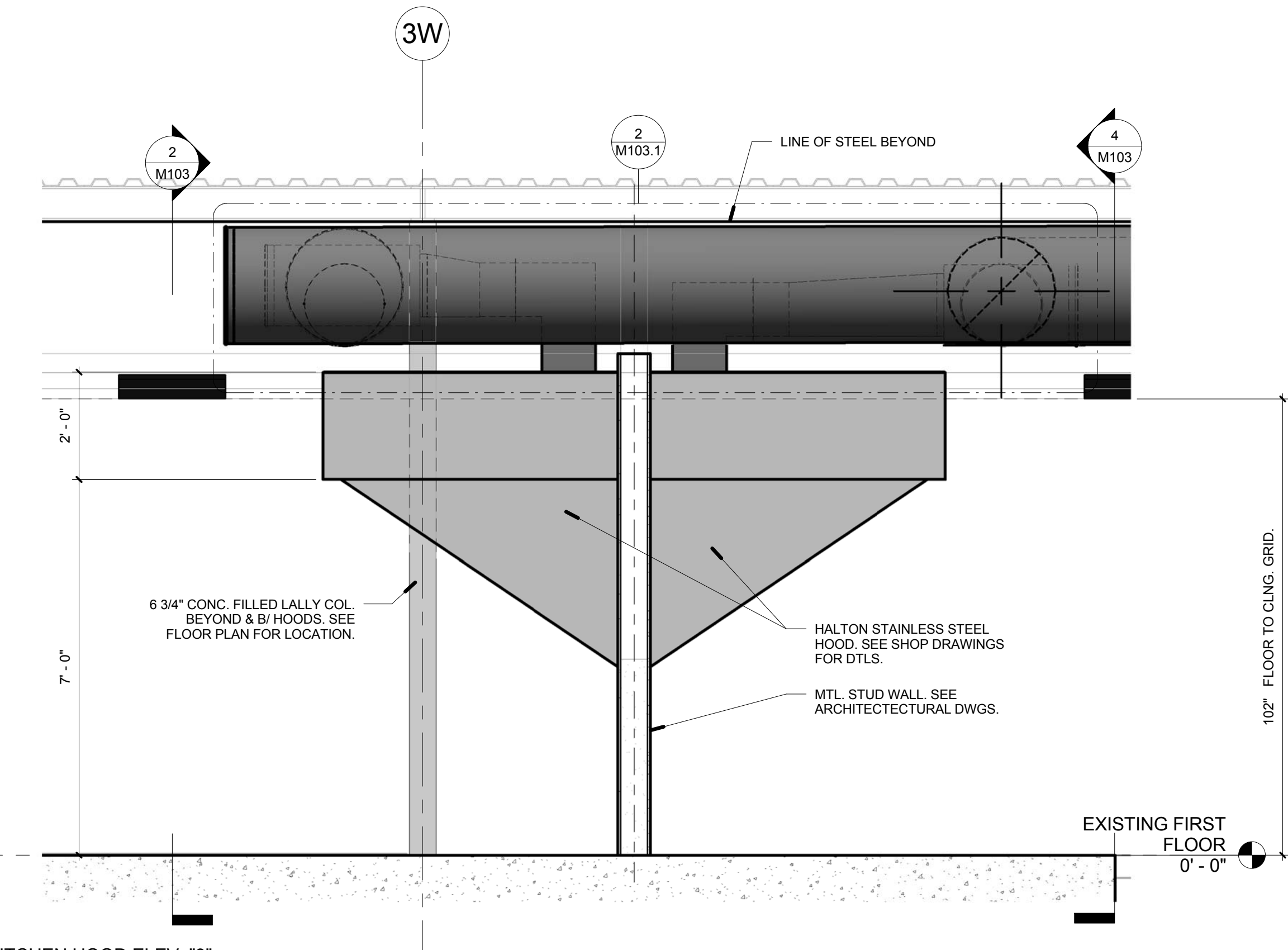
5 KITCHEN DUCT PLAN DIM.
1/2" = 1'-0"



2 KITCHEN HOOD ELEV. "1"
1/2" = 1'-0"



4 KITCHEN HOOD ELEV. "2"
1/2" = 1'-0"



3 KITCHEN HOOD ELEV. "3"
1/2" = 1'-0"

No.	Description	Date

CONNCAT CULINARY ARTS

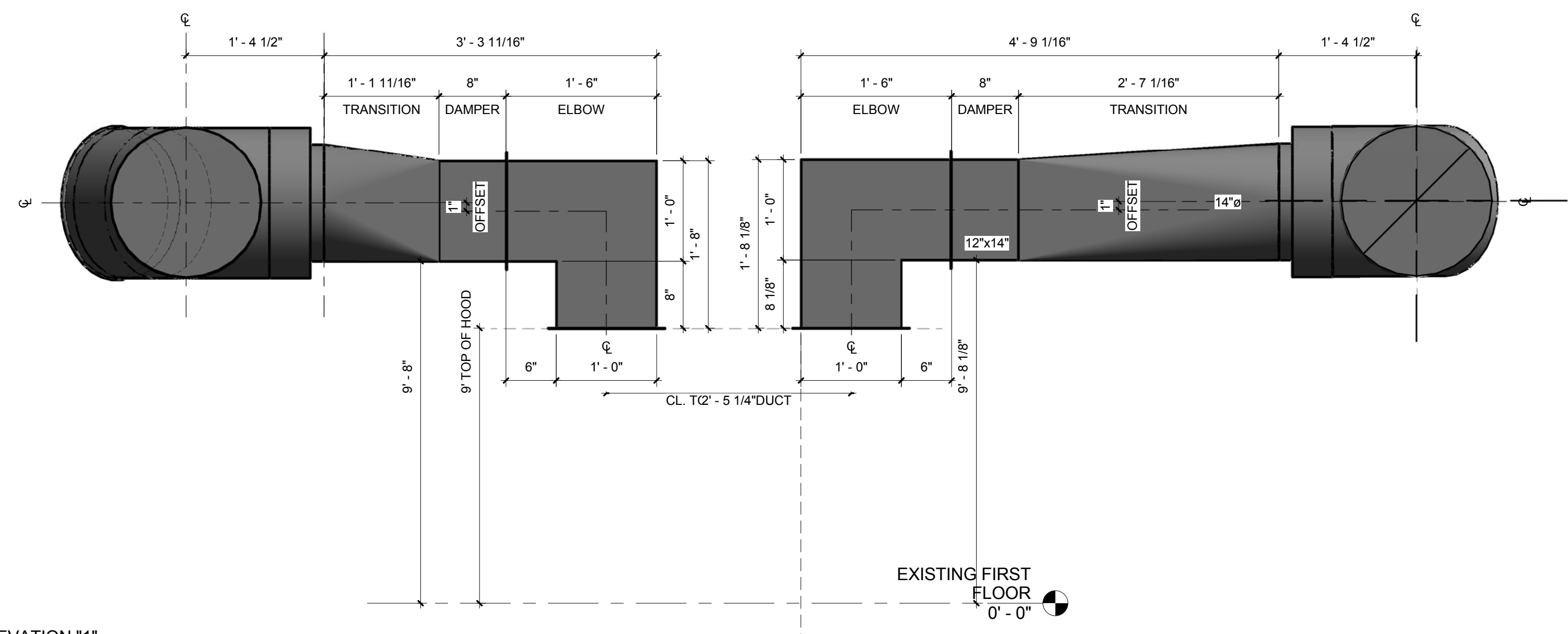
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KITCHEN HOOD PLAN & SECTIONS

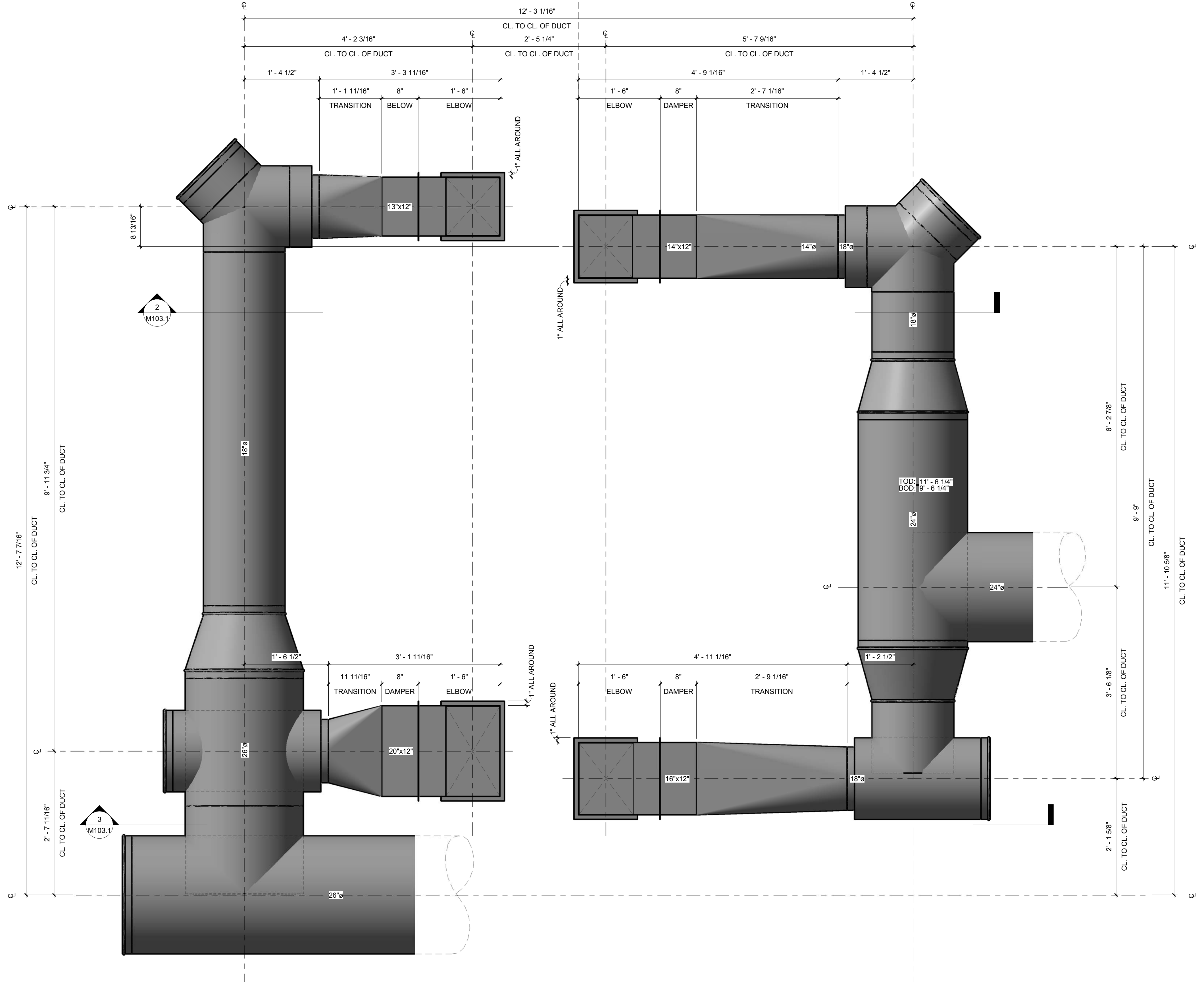
Project Number: 4397
Date: 09.04.15
Drawn By: C. Colon
Checked By: T. Huizinga

M103

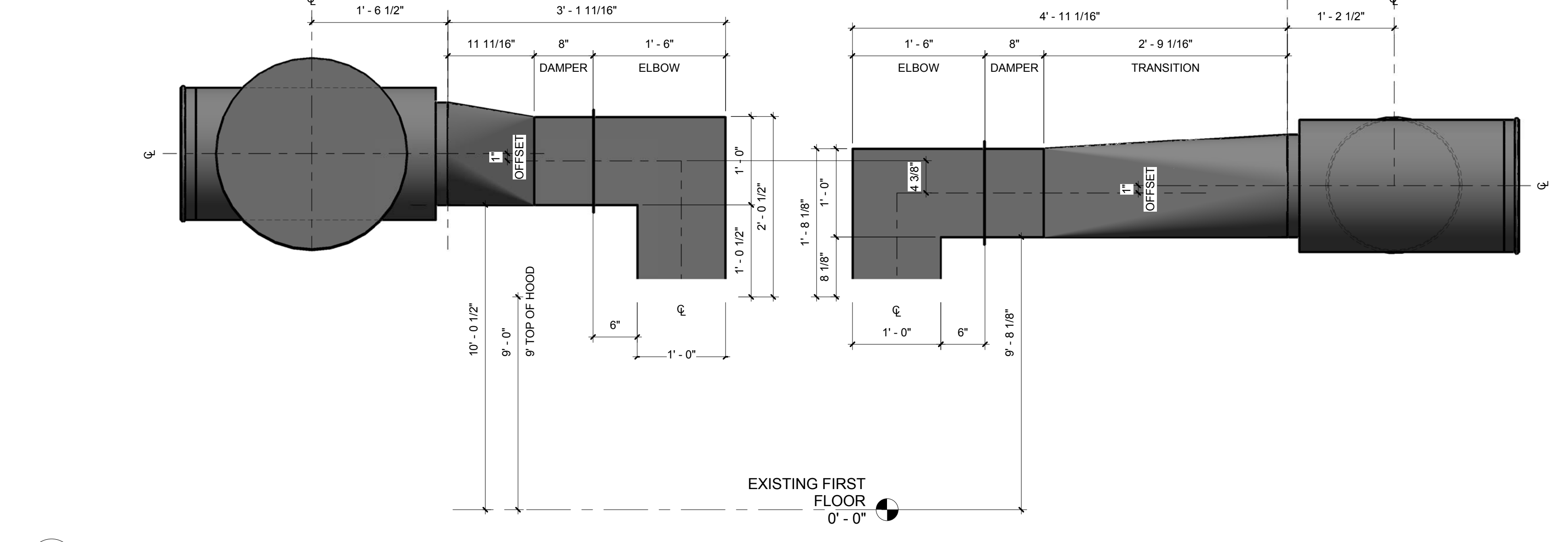
Scale: 1/2" = 1'-0"



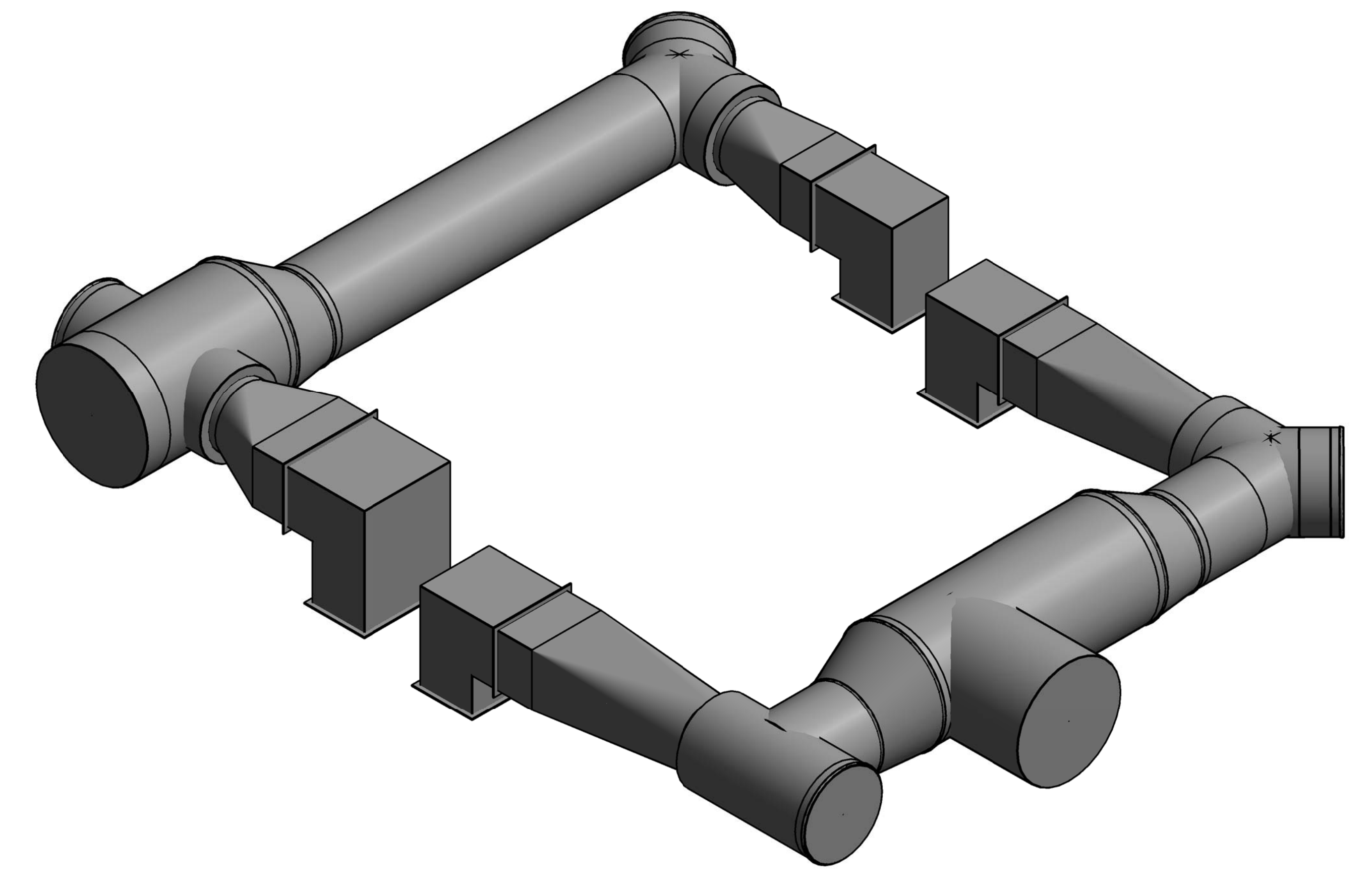
2 DUCT ELEVATION "1"
M103.1 1" = 1'-0"



1 HOOD DUCT DETAILS
M103.1 1" = 1'-0"



3 DUCT ELEVATION "2"
M103.1 1" = 1'-0"



4 HOOD DETAILS ISOMETRIC
M103.1

No.	Description	Date

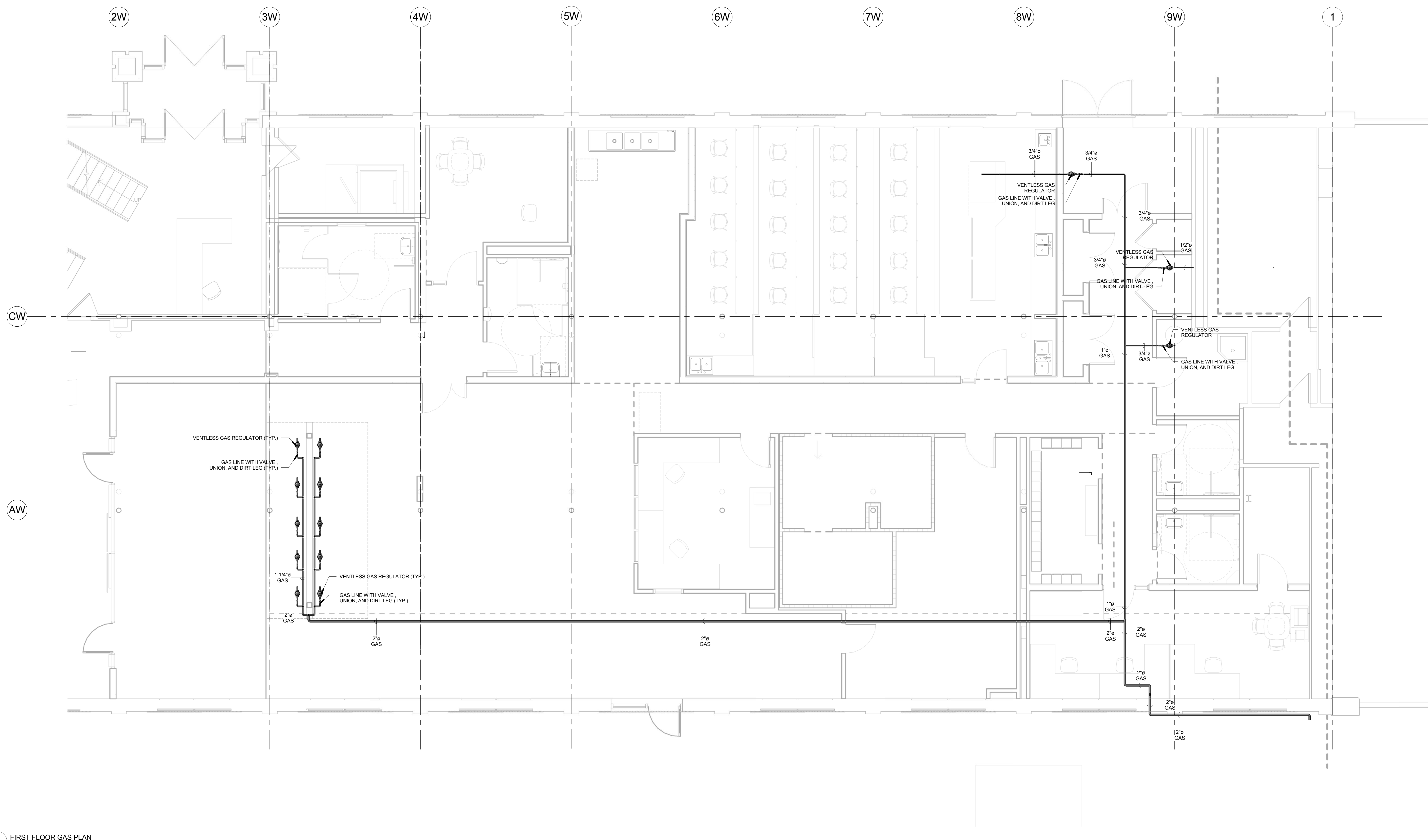
CONNCAT CULINARY ARTS

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NEW HAVEN, CT 06511

HOOD DUCT DETAILS

Project Number	4397
Date	09.04.15
Drawn By	C. Colon
Checked By	T. Huizinga

M103.1



1 FIRST FLOOR GAS PLAN
 M103.2 1/4" = 1'-0"

No.	Description	Date

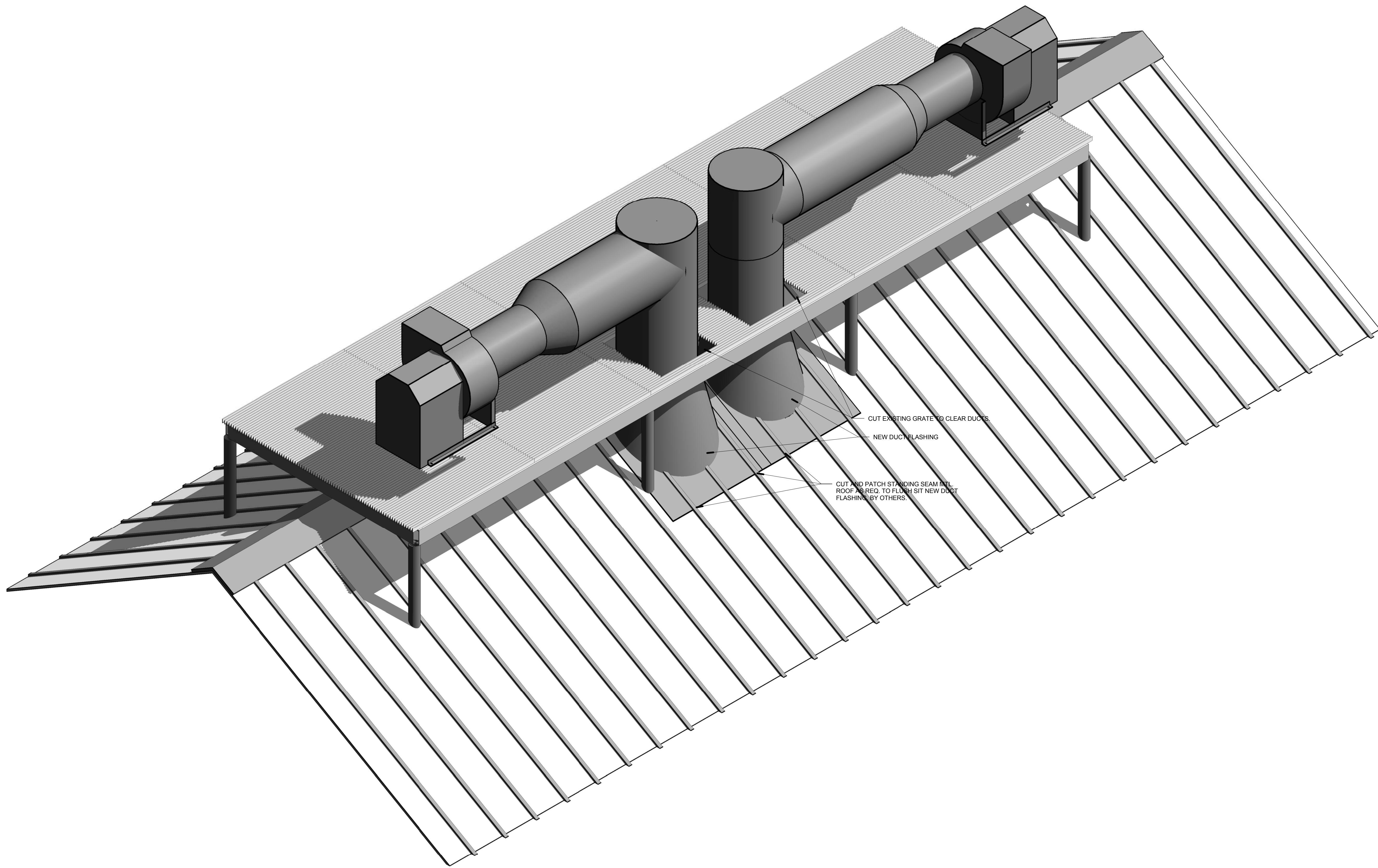
**CONNCAT
 CULINARY ARTS**

4 SCIENCE PARK
 NEW HAVEN, CT 06511

**GAS PIPE PLAN
 2 PSIG**

Project Number	4397
Date	09.04.15
Drawn By	C. Colon
Checked By	T. Huizinga

M103.2



1 ROOF DECK ISOMETRIC
 M103.3

No.	Description	Date

**CONN-CAT
 CULINARY ARTS**

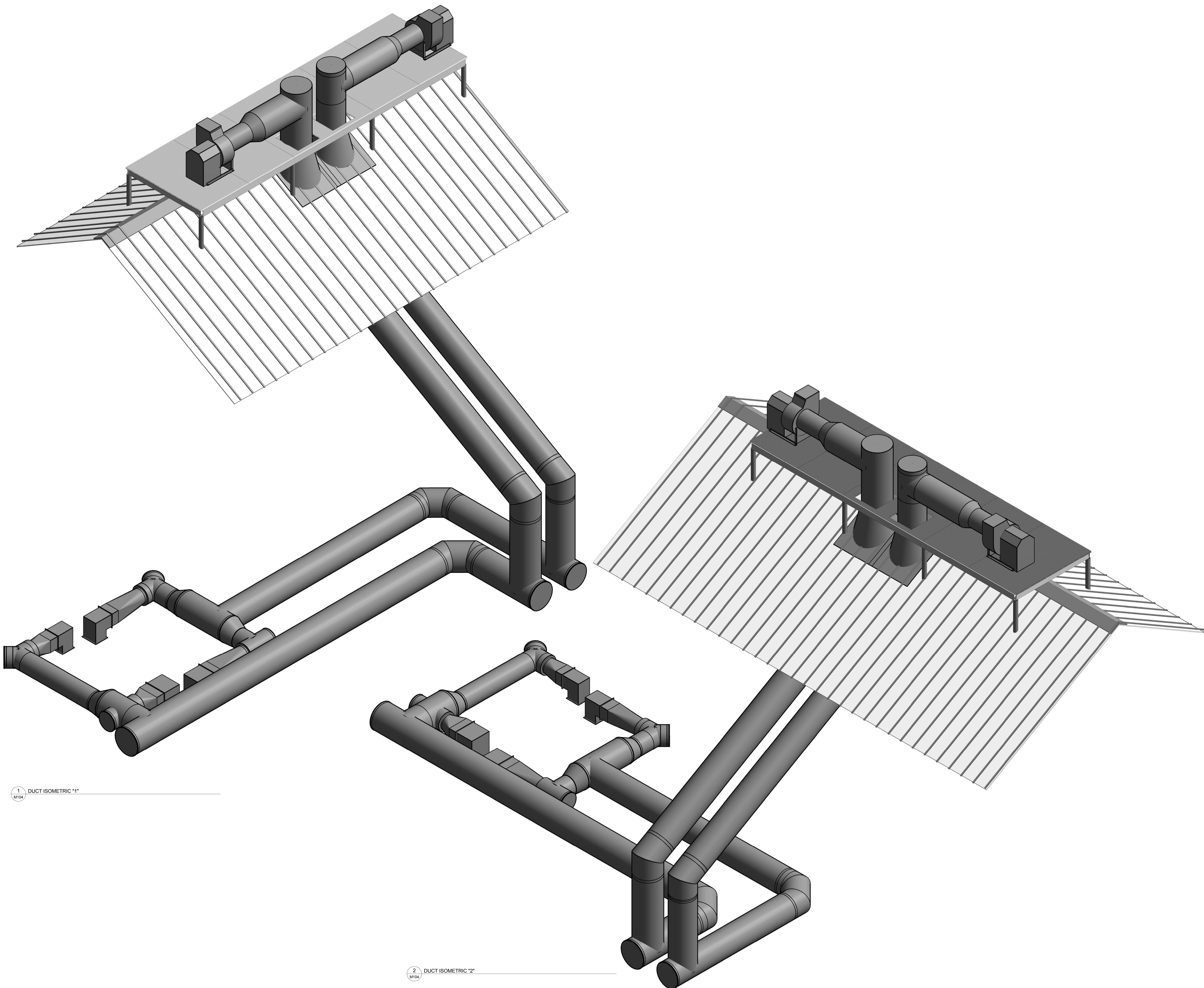
4 SCIENCE PARK
 NEW HAVEN, CT 06511

**ROOF DECK
 ISOMETRIC**

Project Number 4397
 Date 09.04.15
 Drawn By C. Colon
 Checked By T. Huizinga

M103.3

Scale



1 DUCT ISOMETRIC "1"

2 DUCT ISOMETRIC "2"

No.	Description	Date

CONNCAT
CULINARY ARTS

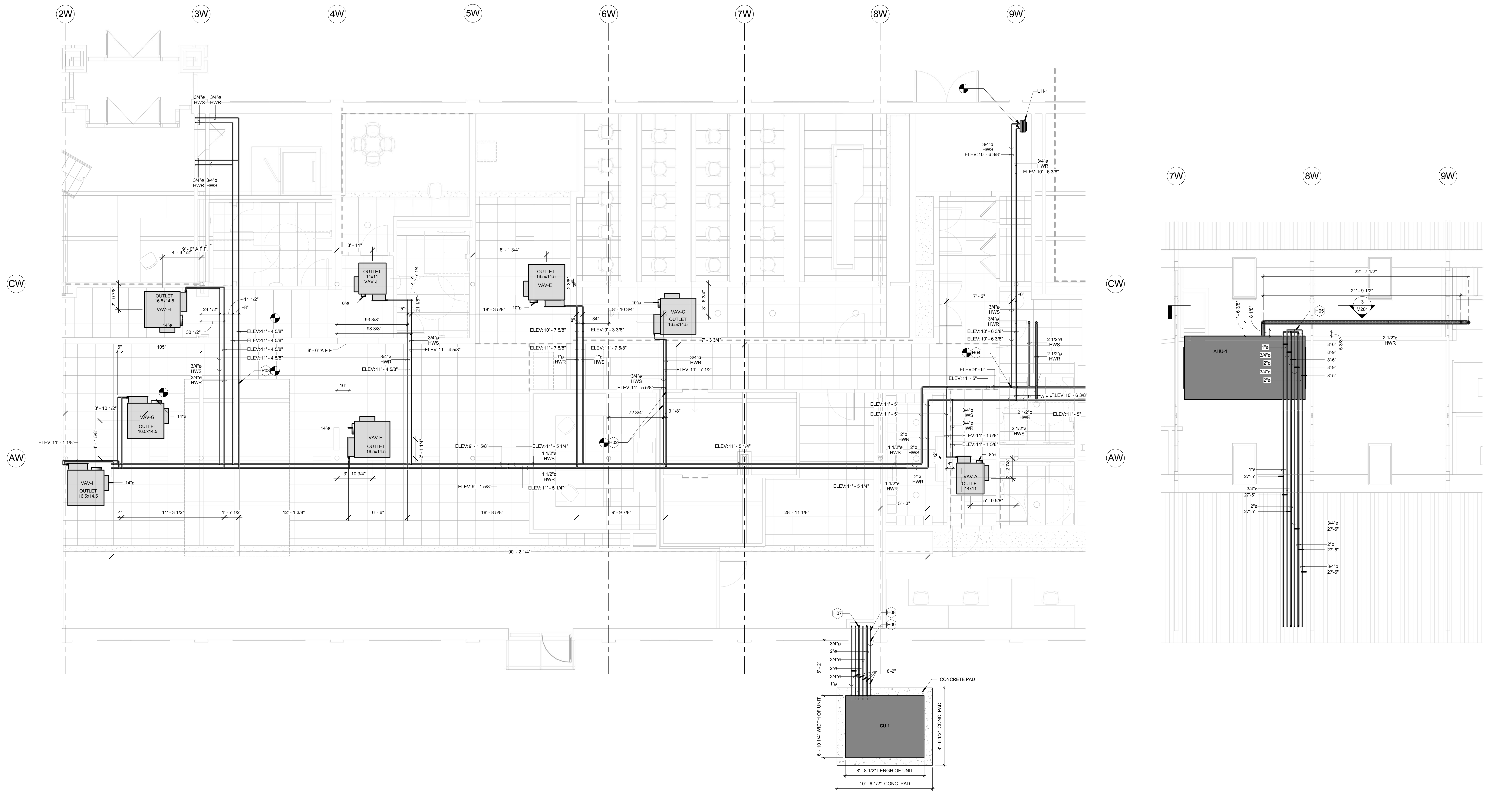
4 SCIENCE PARK
 NEW HAVEN, CT 06511

KITCHEN DUCT
ISOMETRIC

Project Number 4397
 Date 09.04.15
 Drawn By C. Colon
 Checked By T. Huizinga

M104

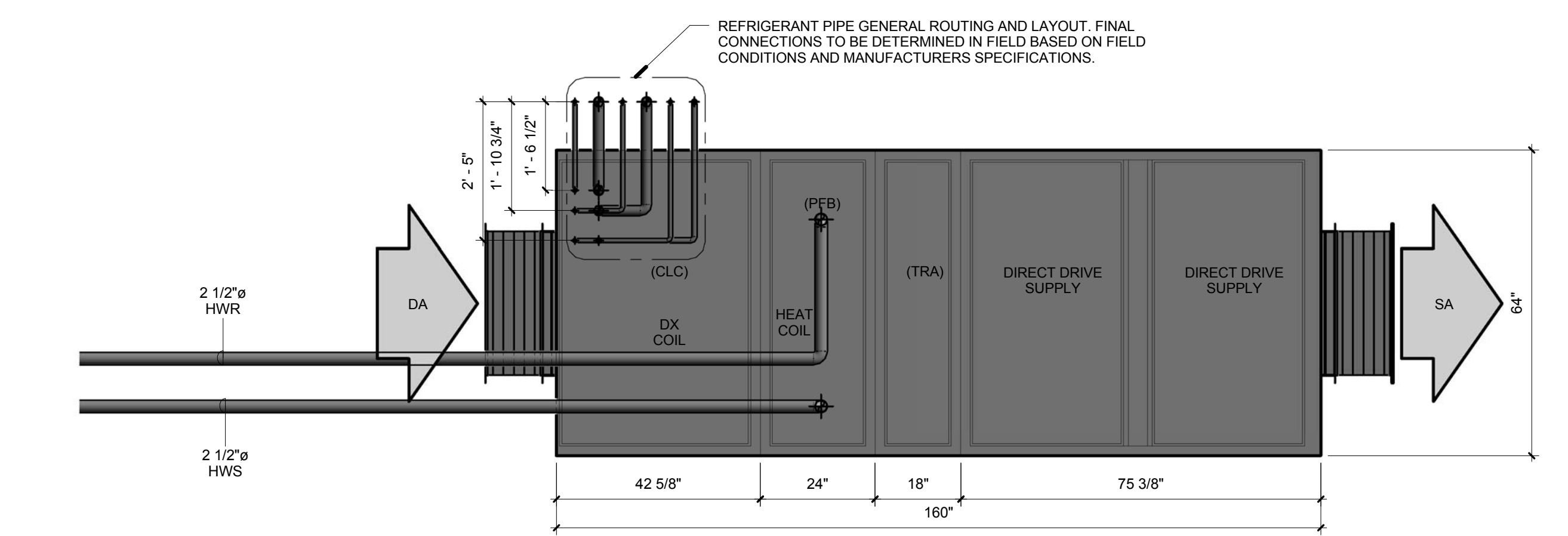
Scale



1 FIRST FLOOR HYDRONIC FLOOR PLAN
M201 1/4" = 1'-0"

2 SECOND FLOOR HYDRONIC FLOOR PLAN
M201 1/4" = 1'-0"

NOTES	
H02	CONNECT NEW 1" HEATING HOT WATER SUPPLY AND RETURN BRANCH PIPING TO EXISTING MAINS. RUN TO NEW VAV BOX VAV-C.
H04	CONNECT NEW 3/4" HEATING HOT WATER SUPPLY AND RETURN BRANCH PIPING TO EXISTING MAINS. RUN TO NEW HOT WATER UNIT HEATER.
H05	REFRIGERANT PIPE GENERAL ROUTING AND LAYOUT. FINAL CONNECTIONS TO BE DETERMINED IN FIELD BASED ON FIELD CONDITIONS AND MANUFACTURERS SPECIFICATIONS.
H07	REFRIGERANT PIPE UP IN CHASE. SEE 2/M201 FOR CONTINUATION.
H08	REFRIGERANT PIPE TO HAVE 1" THICK INSULATION.
H09	EXTERNAL REFRIGERANT PIPE TO BE SUPPORTED BY CADDY SUPPORT SYSTEM ANCHORED TO 4" CONCRETE PAD. CONCRETE PAD BY OTHERS.
P03	CONNECT TO EXISTING. CONFIRM SIZE AND PRECISE LOCATION OF EXISTING PIPE IN FIELD.



3 AIR HANDLING UNIT ELEVATION
M201 1/2" = 1'-0"

No.	Description	Date

**CONNCAT
CULINARY ARTS**

4 SCIENCE PARK
NEW HAVEN, CT 06511

**HYDRONIC
FLOOR PLAN**

Project Number	4397
Date	09.04.15
Drawn By	C. Colon
Checked By	T. Huizinga

M201

Scale As indicated

SUPPLY REGISTER SCHEDULE				
TYPE #	MANUFACTURER #	MODEL	COMMENTS	COUNT
1	Titus	S300FL	REGISTER FOR SPIRAL DUCT	19
2	Titus	PSS	SQUARE SUPPLY DIFFUSER	18
3	Titus	TDC	SQUARE SUPPLY DIFFUSER	2
4	Titus	PAR	SQUARE SUPPLY DIFFUSER	7

VAV BOX SCHEDULE									
MARK	MANUFACTURER	MODEL	Nominal Inlet Size	CFM	COIL ROWS	GPM	HEATING BTU	HP	VOLTAGE
VAV-A	Titus	DTOP	8"	650 CFM	1	1 GPM	18600 Btu/h	1/4	208 V
VAV-B	Titus	DESV	7"						
VAV-C	Titus	DTOP	10"	1200 CFM	1	4 GPM	35600 Btu/h	1/3	208 V
VAV-D	Titus	DESV	4"						
VAV-E	Titus	DTOP	10"	1000 CFM	1	2 GPM	28900 Btu/h	1/3	208 V
VAV-F	Titus	DTOP	14"	2000 CFM	2	2 GPM	62900 Btu/h	1/3	208 V
VAV-G	Titus	DTOP	14"	2000 CFM	2	2 GPM	62900 Btu/h	1/3	208 V
VAV-H	Titus	DTOP	14"	2300 CFM	2	2 GPM	62900 Btu/h	1/3	208 V
VAV-I	Titus	DTOP	14"	2000 CFM	2	2 GPM	62900 Btu/h	1/3	208 V
VAV-J	Titus	DTOP	6"	180 CFM	1	1 GPM	10200 Btu/h	1/6	208 V

EXHAUST FAN SCHEDULE								
MARK	MANUFACTURER	MODEL	CFM	DRIVE	HP	VOLTAGE	RPM	SONES
EF-1	GREENHECK	USF-318	4136 CFM	BELT	3	208 V	1725	
EF-2	GREENHECK	USF-318	4136 CFM	BELT	3	208 V	1725	

OUTDOOR CONDENSING UNIT SCHEDULE

SYMBOL	MAKE	MODEL	NOMINAL CAPACITY BTUH	SUCTION TEMPERATURE °F	AMBIENT TEMPERATURE °F DB/WB	EER BTUH/WATTS APPLICATION	VOLTAGE	MCA	MOCP
CU-1	AAON	CCC063	896,900	50°F	84/75	15	208-3PH	279	300

FURNISH WITH MODULATING FAN PRESSURE CONTROL, MODULATING HOT GAS REHEAT, SUCTION PRESSURE TRANSDUCER, COMPRESSOR SOUND BLANKET, 2,500 HOUR SALT-SPRAY TESTED EXTERIOR PAINT AND 5 YEAR EXTENDED COMPRESSOR WARRANTY. EACH SHALL HAVE A VARIABLE CAPACITY DIGITAL SCROLL COMPRESSOR WITH TWO CIRCUITS. START-UP BY FACTORY AUTHORIZED REPRESENTATIVE.

HOT WATER UNIT HEATER SCHEDULE

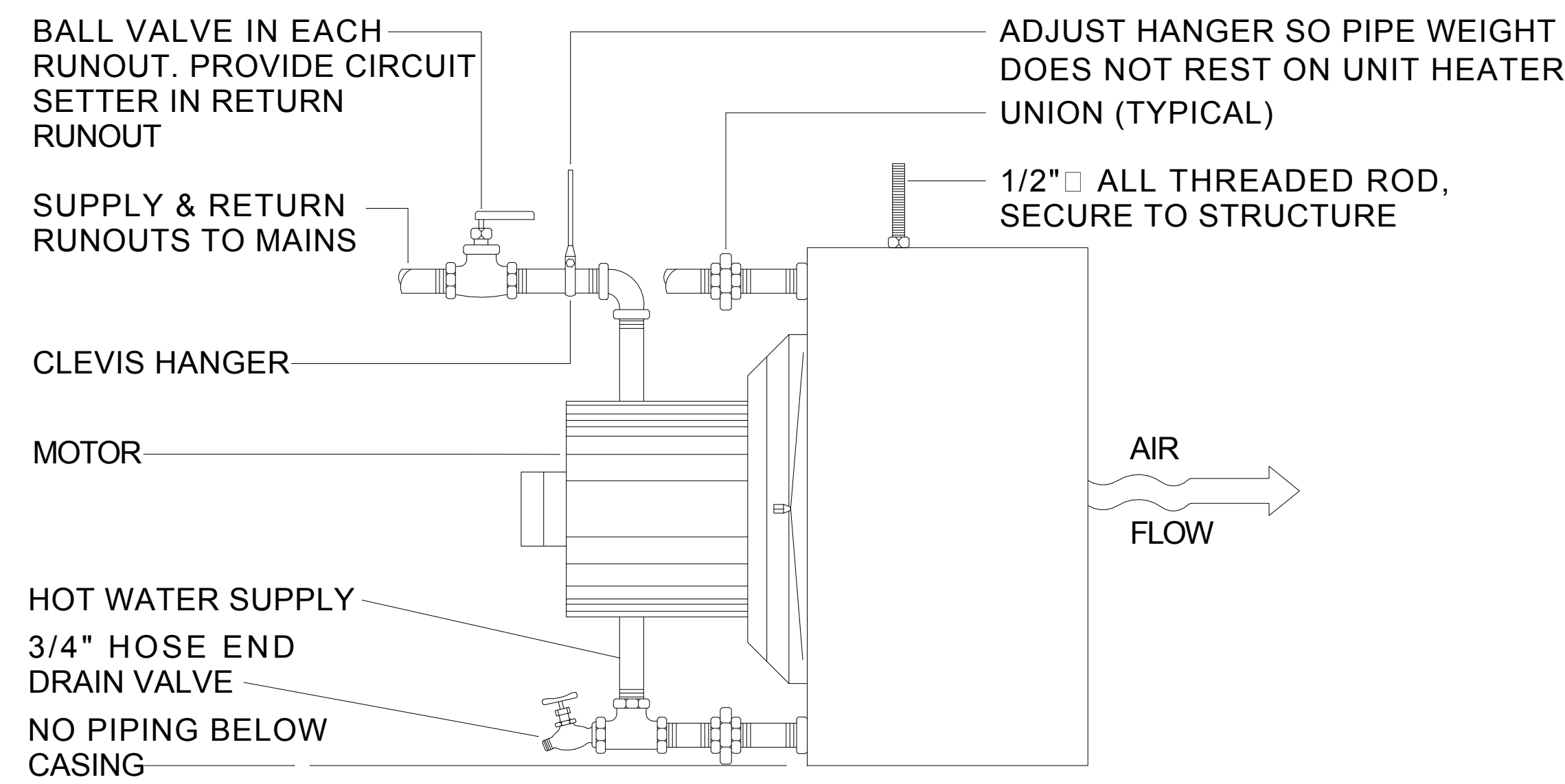
SYMBOL	MAKE	MODEL	CAPACITY BTUH	GPM	AWT	DT	CFM	HP	VOLTAGE
UH-1	MODINE	HSB-18	7456	0.75	170°F	20°F	230	1/60	120-1PH

EACH UNIT HEATER SHALL HAVE STRAP ON WATER CONTROL.

AIR HANDLING UNIT SCHEDULE

SYMBOL	MAKE	MODEL	SUPPLY AIR FAN			FAN MOTOR			DX COOLING COIL					HOT GAS REHEAT					HOT WATER HEATING COIL					OUTDOOR AIR MAXIMUM CFM	APPROX. WEIGHT INCLUDING ACCESSORIES LBS.	ELECTRICAL DATA					
			QUANTITY	NOMINAL TOTAL CFM	ESP	TSP	QUANTITY	HP	DRIVES	TOTAL CAPACITY NET BTUH	SENSIBLE CAPACITY NET BTUH	FACE AREA SF-ROWS -FPI	COIL EAT °F DB/WB	COIL LAT °F DB/WB	APD IN.	TOTAL CAPACITY NET BTUH	AIR °F DB	RELATIVE HUMIDITY	CAPACITY BTUH	FACE AREA SF-ROWS -FPI	COIL EDB/LDB	GPM	EWT			WTD °F	WPD FT.	APD IN.	UNIT VOLTAGE	MCA	MOCP
AHU-1	AAON	M2-H-026	1	13,000	3.0	4.21	1	20	DIRECT	866,300	415,000	27.2-8-12 INTERTWINED	82.5/73.6	52.2/52.2	1.05	243,100	72.59	60.16%	780.5	26.7-1-8	8.5/59.4	60	180	27.7	5.16	.16	11049	3956	208-3PH	74	125

ASSOCIATED CONDENSING UNIT FOR AHU-1 IS CU-1. TEMPERATURE CONTROLS ARE STAND ALONE DDC, NOT FURNISHED WITH UNIT. MODULES IN ORDER FROM INLET TO OUTLET: DX COOLING COIL, HOT WATER HEATING COIL AND DIRECT DRIVE FAN WITH PREMIUM EFFICIENCY MOTOR AND VFD (FAN MODULE IN SEPARATE LOCATION). FURNISH WITH NON-FUSED DISCONNECT.



1 M301 N.T.S. HOT WATER HEATER UNIT PIPING DETAIL

No.	Description	Date

CONNCAT CULINARY ARTS

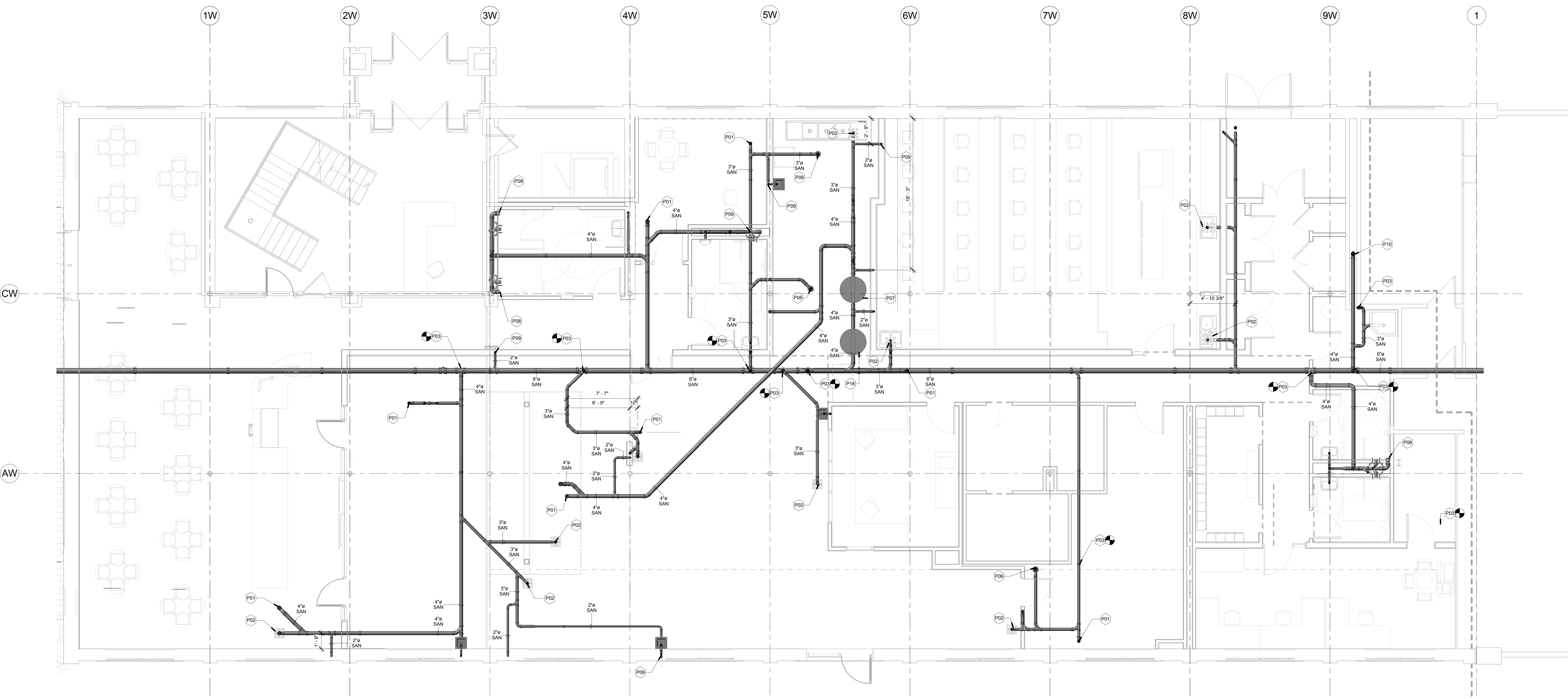
4 SCIENCE PARK
NEW HAVEN, CT 06511

SCHEDULES & DETAILS

Project Number	4397
Date	09.04.15
Drawn By	C. Colon
Checked By	T. Huizinga

M301

Scale: N.T.S.



1 SANITARY PIPE FLOOR PLAN
 P101 1/4" = 1'-0"

NOTES

P01	FLUSH FLOOR CLEANOUT.
P02	FLOOR SINK WITH 3" OUTLET. P-TRAP TO BE INSTALLED.
P03	CONNECT TO EXISTING. CONFIRM SIZE AND PRECISE LOCATION OF EXISTING PIPE IN FIELD.
P06	FLOOR DRAIN WITH 3" OUTLET. P-TRAP TO BE INSTALLED.
P07	GREASE TRAP OUTLET PIPING PER FIELD CONDITIONS. INSTALL SAMPLE PORT PER MANUFACTURER INSTRUCTIONS.
P08	WALL CLEANOUT.
P09	VENT RISER UP
P10	STAND PIPE WITH TRAP BEHIND WASHERS.
P18	SAMPLE PORT

No.	Description	Date

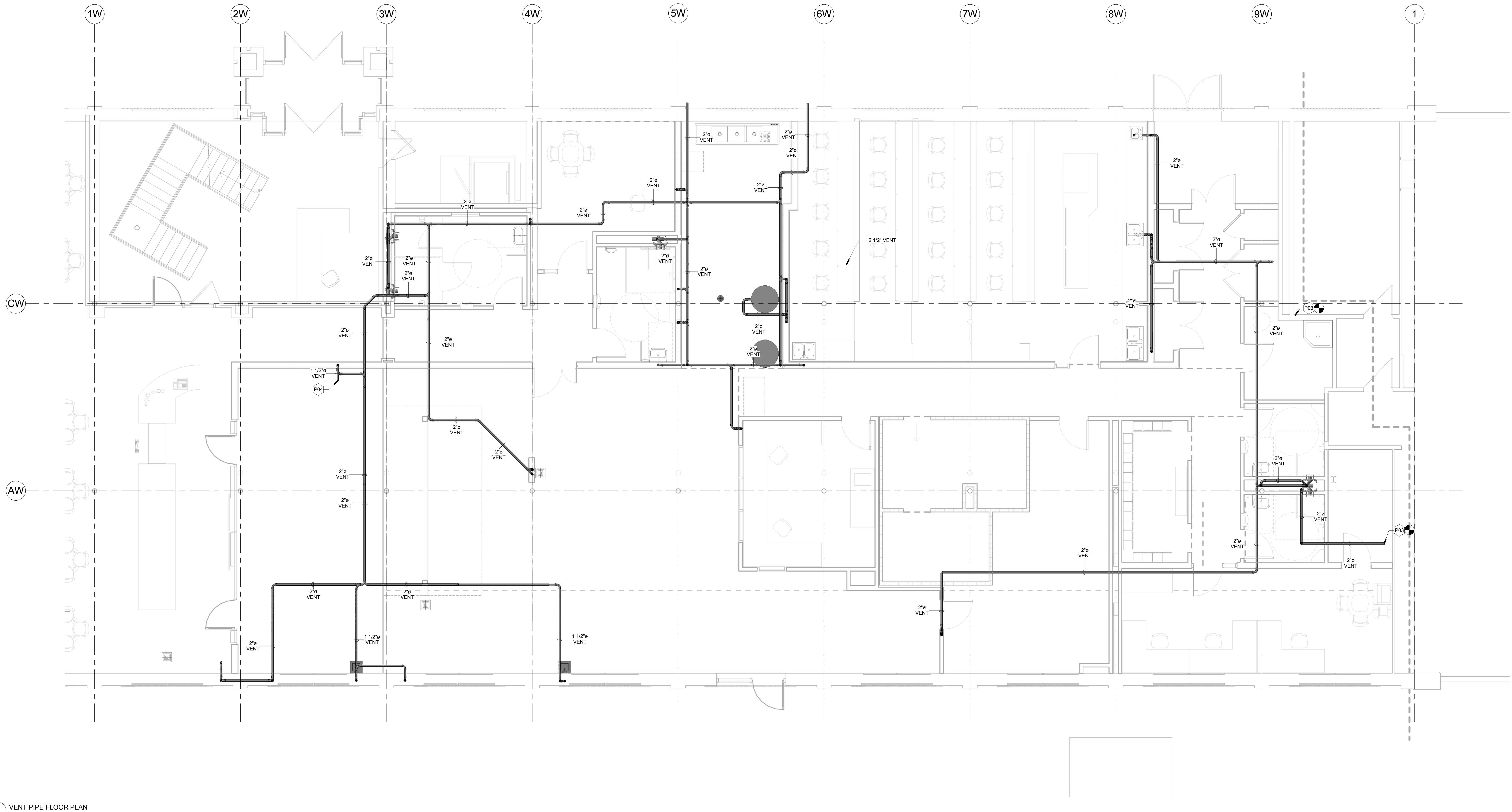
**CONN-CAT
 CULINARY ARTS**

4 SCIENCE PARK
 NEW HAVEN, CT 06511

**SANITARY PIPE
 FLOOR PLAN**

Project Number	4397
Date	09.04.15
Drawn By	C. Colon
Checked By	T. Huizinga

P101



1 VENT PIPE FLOOR PLAN
 P102 / 1/4" = 1'-0"

NOTES

- P03 CONNECT TO EXISTING. CONFIRM SIZE AND PRECISE LOCATION OF EXISTING PIPE IN FIELD.
- P04 RUN BELOW CONCRETE SLAB.

No.	Description	Date

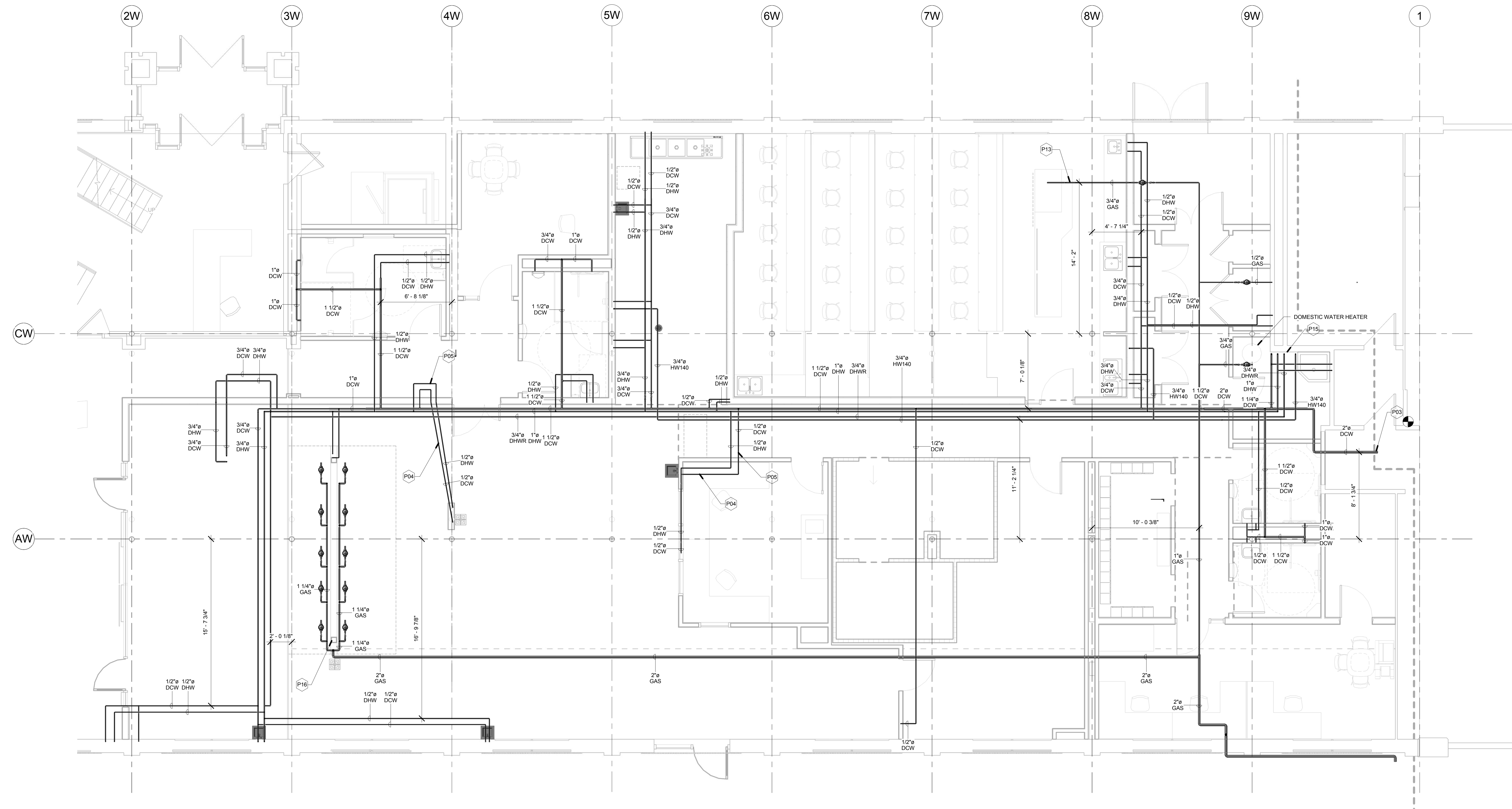
**CONN-CAT
CULINARY ARTS**

4 SCIENCE PARK
NEW HAVEN, CT 06511

**VENT PIPE
FLOOR PLAN**

Project Number	4397
Date	09.04.15
Drawn By	C. Colon
Checked By	T. Huizinga

P102



1 GAS & WATER PIPE FLOOR PLAN
P103 1/4" = 1'-0"

NOTES

P03	CONNECT TO EXISTING. CONFIRM SIZE AND PRECISE LOCATION OF EXISTING PIPE IN FIELD.
P04	RUN BELOW CONCRETE SLAB.
P05	RUN ABOVE SUSPENDED CEILING.
P13	GAS LINE UP TO RANGE WITH OVEN. PROVIDE VALVE, UNION AND DIRT LEG AT CONNECTION. CONNECTED LOAD 236,000 B.T.U.H.
P15	(5) PIPES DOWN TO DOMESTIC WATER HEATER. SEE WATER HEATER DETAIL.
P16	REFER TO ENGINEER DRAWING, P-1 FOR GAS CONNECTION POINTS AND ASSOCIATED LOAD VALUES.

No.	Description	Date

**CONNCAT
CULINARY ARTS**

4 SCIENCE PARK
NEW HAVEN, CT 06511

**GAS/WATER
PIPE FLOOR
PLAN**

Project Number	4397
Date	09.04.15
Drawn By	C. Colon
Checked By	T. Huizinga

P103