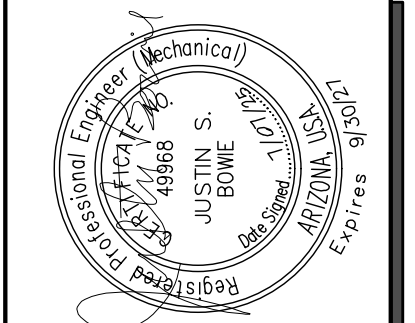


JOB SITE COPY
 THESE PLANS SHALL BE KEPT AT THE
 JOBSITE AND BE AVAILABLE TO CITY
 OF GLENDALE INSPECTORS DURING
 WORKING HOURS. PLANS SHALL NOT
 BE ALTERED WITHOUT BUILDING
 OFFICIALS APPROVAL.



Bowie Tiglas
Engineering Inc.
 Consulting Engineers
 Justin@BowieTiglas.com
 BTE # 29177
 Phone: 602.992.2800
 Fax: 602.992.1541
 2820 N BOSTON ST 110
 PHOENIX, AZ 85005

KDF JOB #: 24010

QuikTrip No. 1437
 5850 W GREENWAY RD
 GLENDALE, ARIZONA



© QUIKTRIP CORPORATION 2011
 ALL RIGHTS RESERVED. REPRODUCTION, PUBLIC ATION,
 OR TRANSMISSION IN ANY FORM OR BY ANY MEANS IS
 PROHIBITED.
 PROTOTYPE: FRYER ADDITION
 DIVISION: PHOENIX
 VERSION: G35-L
 DATE: 06/17/25

REV	DATE	DESCRIPTION

SHEET TITLE:
 MECHANICAL
 DUCTWORK
 CEILING PLAN - DEMO

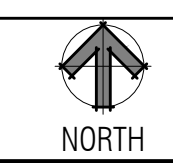
SHEET NUMBER:
M101



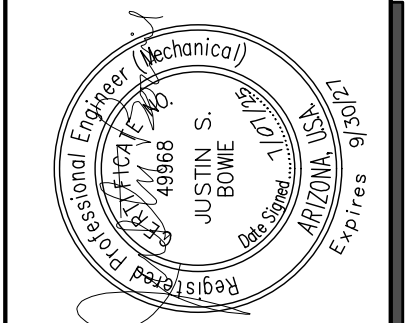
- 1 REMOVE KITCHEN HOOD SYSTEM AND ALL ASSOCIATED GREASE DUCT BETWEEN HOOD AND EXHAUST FAN ON ROOF. REMOVE HOOD SUPPLY PLENUM DUCT BACK TO RTU SUPPLY MAIN AND CAP AND PATCH AS REQUIRED. RE: M102.
- 2 REMOVE ROOF MOUNTED EXHAUST FAN AND ALL ASSOCIATED DUCT WORK.
- 3 EXISTING TEMPERATURE SENSOR AND HUMIDITY SENSOR SERVING KITCHEN RTU TO REMAIN, SHOWN FOR REFERENCE.
- 4 EXISTING ROOF EQUIPMENT TO REMAIN, SHOWN FOR REFERENCE.
- 5 REMOVE DIFFUSER/GRILLE AND MAINTAIN EXISTING DUCT WORK FOR NEW WORK.

A1 MECHANICAL DUCTWORK CEILING PLAN - DEMO

A13 PLAN NOTES



JOB SITE COPY
 THESE PLANS SHALL BE KEPT AT THE
 JOB SITE AND BE AVAILABLE TO CITY
 OF GLENDALE INSPECTORS DURING
 WORKING HOURS. PLANS SHALL NOT
 BE ALTERED WITHOUT BUILDING
 OFFICIALS APPROVAL.



Bowie Tiglas
 Engineering Inc.
 Consulting Engineers
 Justin@BowieTiglas.com
 BTE # 29177
 Phone: 602.992.2800
 Fax: 602.992.1541
 2420 N GILMANE STE 110
 PHOENIX, AZ 85016

KDF JOB #: 24010

QuikTrip No. 1437
 5850 W GREENWAY RD
 GLENDALE, ARIZONA



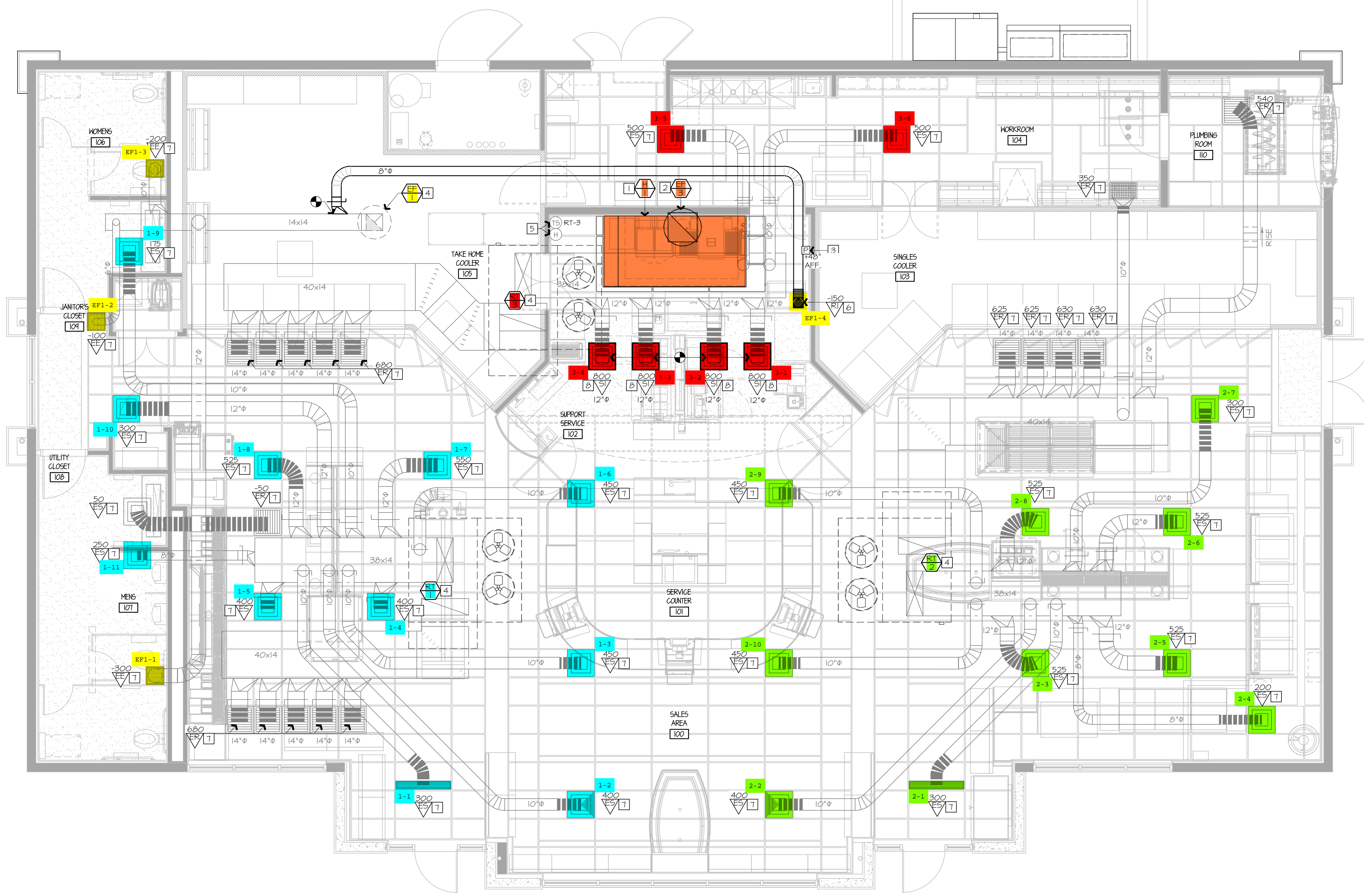
© 2024 QUIKTRIP CORPORATION. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF QUIKTRIP CORPORATION. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN.

PROTOTYPE	FRYER ADDITION
DIVISION	PHOENIX
VERSION	G35-L
DATE	06/17/25

REV	DATE	DESCRIPTION

SHEET TITLE:
 MECHANICAL
 DUCTWORK
 CEILING PLAN - NEW

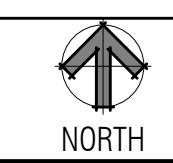
SHEET NUMBER:
M102

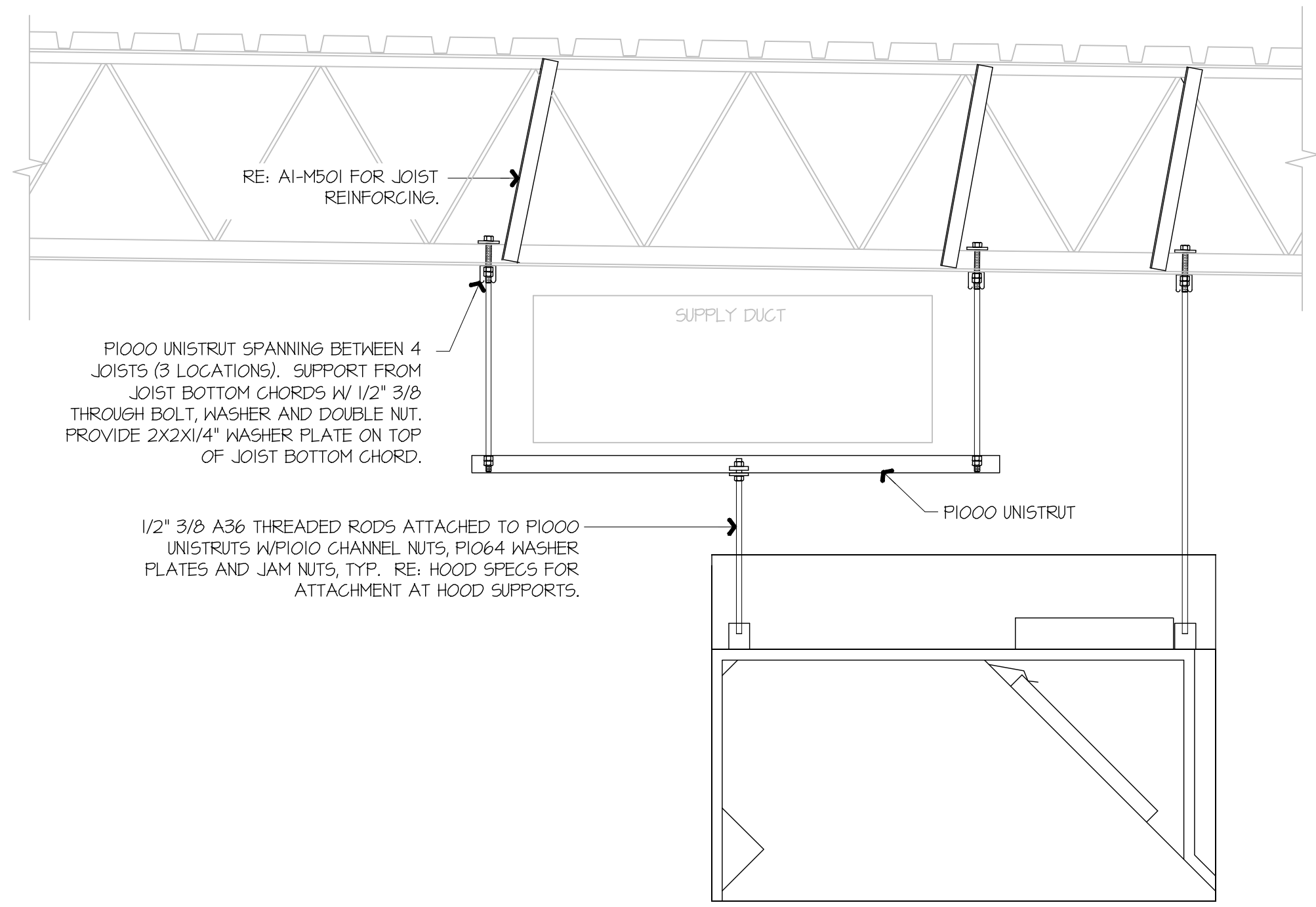


- 1 INSTALL NEW OWNER-FURNISHED TYPE-I KITCHEN HOOD EXHAUST SYSTEM, FIRE SUPPRESSION SYSTEM, GREASE DUCT, AND ALL OTHER REQUIREMENTS FOR A TYPE-I SYSTEM. INSTALL HOOD CONTROL PANEL, TEMPERATURE SENSOR(S), AND HUMIDITY SENSOR(S) WITHIN HOOD UTILITY CABINET ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 2 INSTALL NEW OWNER-FURNISHED ROOF-MOUNTED EXHAUST FAN. INSTALL 12" GREASE DUCT TO ROOF MOUNTED FAN. EXTEND HOOD COLLAR. BALANCE TO AIRFLOW RATE SCHEDULED ON M601. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FAN CONTROLS BETWEEN HOOD AND FAN. RE: QT INSTALL DRAWINGS AND HOOD MANUFACTURER'S INSTRUCTIONS.
- 3 INSTALL OWNER-FURNISHED HOOD SUPPRESSION PUSH STATION PER MANUFACTURER'S INSTALLATION REQUIREMENTS. RE: F4-E501 FOR ELEVATION.
- 4 EXISTING ROOF EQUIPMENT TO REMAIN, SHOWN FOR REFERENCE. RE: 6I-M601 TO RE-BALANCE AIRFLWS AS REQUIRED.
- 5 EXISTING TEMPERATURE SENSOR AND HUMIDITY SENSOR SERVING KITCHEN RTU TO REMAIN, SHOWN FOR REFERENCE.
- 6 PROVIDE EXHAUST GRILLE ABOVE COMBI OVENS AND PROVIDE DUCT AS SHOWN TO TAP INTO EXISTING RESTROOM EXHAUST DUCT. RE: 6I-M601 FOR MORE INFORMATION.
- 7 RE-BALANCE EXISTING DIFFUSER/GRILLE TO AIRFLOW SHOWN ON PLAN. RE: M601.
- 8 PROVIDE DIFFUSER/GRILLE AS SCHEDULED AND RECONNECT TO EXISTING DUCT MAINTAINED DURING DEMOLITION. RE-BALANCE TO AIRFLOW SHOWN ON PLAN. RE: M601.

A1 MECHANICAL DUCTWORK CEILING PLAN - NEW

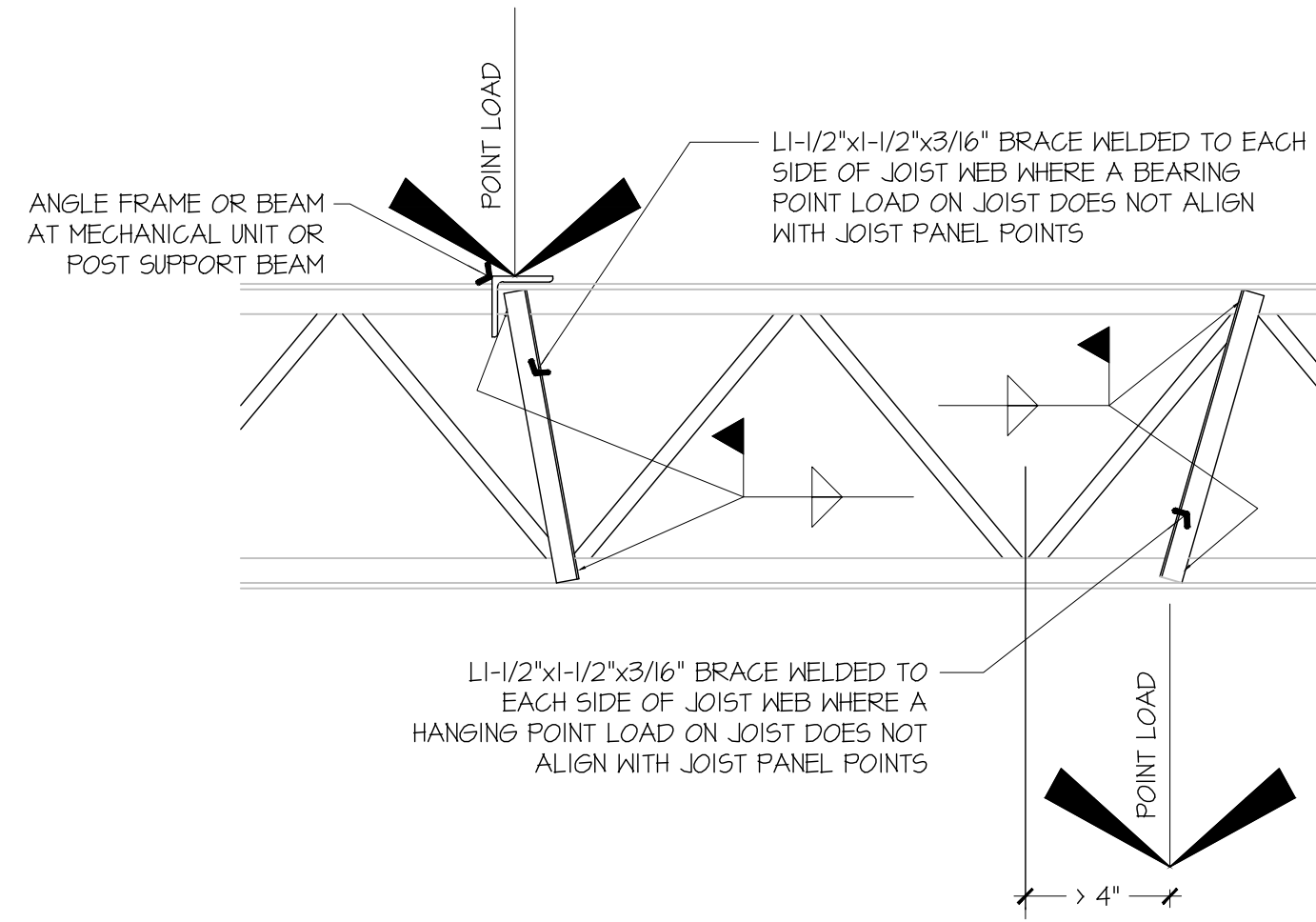
A13 PLAN NOTES





F1 KITCHEN EXHAUST HOOD SUPPORT DETAIL

NOT TO SCALE



A1 JOIST REINFORCING DETAIL

NOT TO SCALE

GENERAL NOTES:
 KITCHEN EXHAUST HOOD SHALL BE TYPE-I RATED FOR MEDIUM DUTY COOKING APPLIANCES THAT PRODUCE GREASE OR SMOKE AS A RESULT OF THE COOKING PROCESS. HOOD SHALL BE PROVIDED WITH AUTOMATIC FIRE SUPPRESSION SYSTEM INTERLOCKED WITH EQUIPMENT SHUTDOWN CONTROLS. HOOD SHALL BE PROVIDED WITH UL1046 GREASE FILTERS. HOOD SHALL BE LISTED IN ACCORDANCE WITH UL1010. HOOD SHALL BE LISTED AND LABELED FOR 0\"/>

HEAT AND MOISTURE LOADS FOR APPLIANCES THAT DO NOT PRODUCE GREASE OR SMOKE AS A RESULT OF THE COOKING PROCESS AND ARE NOT LOCATED UNDER THE HOOD, HAVE BEEN INCORPORATED INTO THE HVAC SYSTEM CAPACITY SERVING THE KITCHEN.

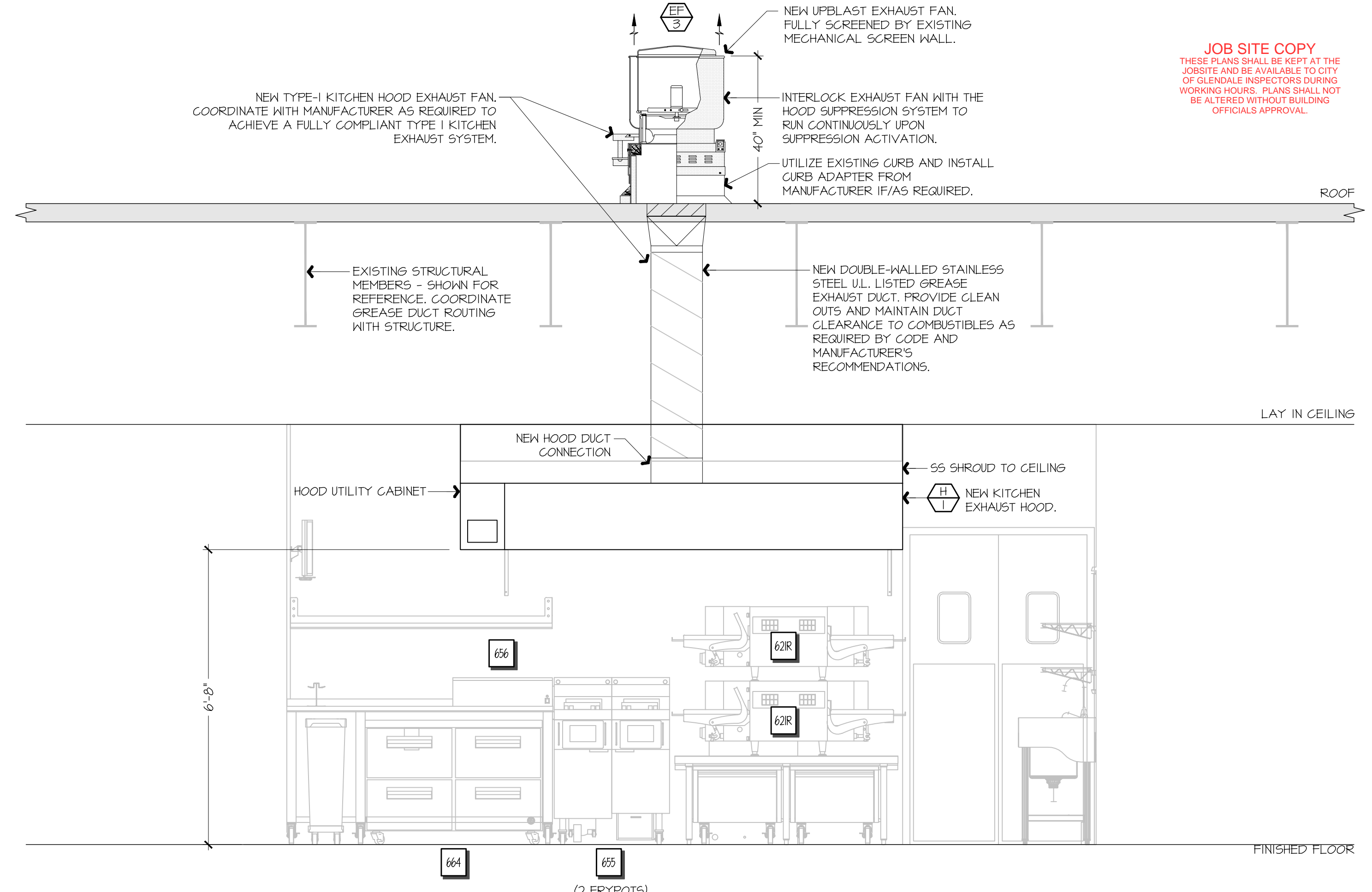
ALL OVENS NOT LOCATED UNDERNEATH A HOOD ARE UL1101B LISTED FOR VENTLESS OPERATION.

SEQUENCE OF OPERATION:
 THE FOLLOWING KITCHEN EQUIPMENT SHALL BE INTERLOCKED WITH CURRENT TRANSFORMERS THAT AUTOMATICALLY ACTIVATE THE HOOD EXHAUST FAN UPON THE KITCHEN EQUIPMENT BEING ENERGIZED: [621] PIZZA OVENS, [640] COMBI OVENS, [641] STEAM DRAWER, [655] FRYER, [656] FRY HOLDING STATION.

AS HOOD EXHAUST FAN ENERGIZES, RTU'S SHALL MODULATE OUTSIDE AIR TO MAINTAIN BUILDING PRESSURIZATION. RE: M601.

HEAT SENSORS SHALL BE PROVIDED WITHIN HOOD CANOPY FOR TEMPERATURE AND HUMIDITY MONITORING. RE: MANUFACTURER DRAWINGS.

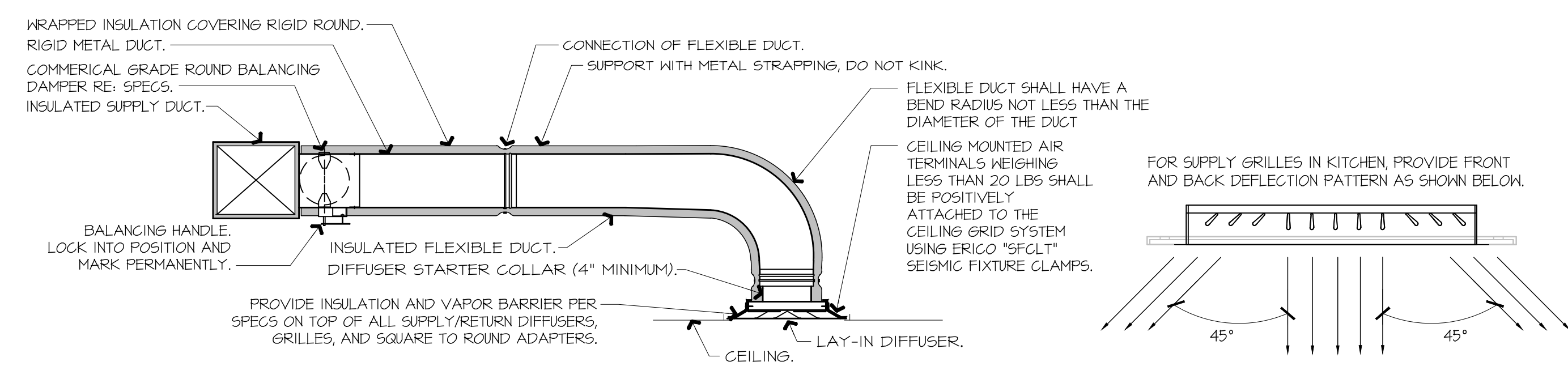
UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM, ALL EQUIPMENT LOCATED UNDER THE HOOD SHALL BE SHUTDOWN VIA CONTACTORS LOCATED WITHIN THE HOOD UTILITY CABINET, AND RTU SERVING KITCHEN SPACE SHALL BE AUTOMATICALLY SHUTDOWN. RE: A13-E601.



F9 FSC REAR WALL ELEVATION - NEW

1/8" = 1'-0"

A1-M102



- NOTES:**
- PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAWBAND WITH AN ADDITIONAL DRAWBAND.
 - PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
 - PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEX DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
 - BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE FIBER REINFORCED FOIL BACKED TAPE FOR INSULATION OVERLAP.

A9 DIFFUSER CONNECTION DETAIL

NOT TO SCALE

Bowie Tiglas Engineering Inc.
 Consulting Engineers
 Justin@BowieTiglas.com
 BTE # 29171

Phone: 602.992.2900
 Fax: 602.992.1541
 2820 N GLENDALE STE 110
 PHOENIX, AZ 85028

KDF JOB #: 24010

QuikTrip No. 1437

8850 W GREENWAY RD
 GLENDALE, ARIZONA

QT

© QUIKTRIP CORPORATION 2011. ALL RIGHTS RESERVED. REPRODUCTION, PUBLICATION, OR DISTRIBUTION OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF QUIKTRIP CORPORATION IS PROHIBITED.

PROTOTYPE	FRYER ADDITION
DIVISION	PHOENIX
VERSION	G35-L
DATE	06/17/25

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 8/23/2024

SHEET TITLE:
 MECHANICAL SECTIONS & DETAILS

SHEET NUMBER:
M501



