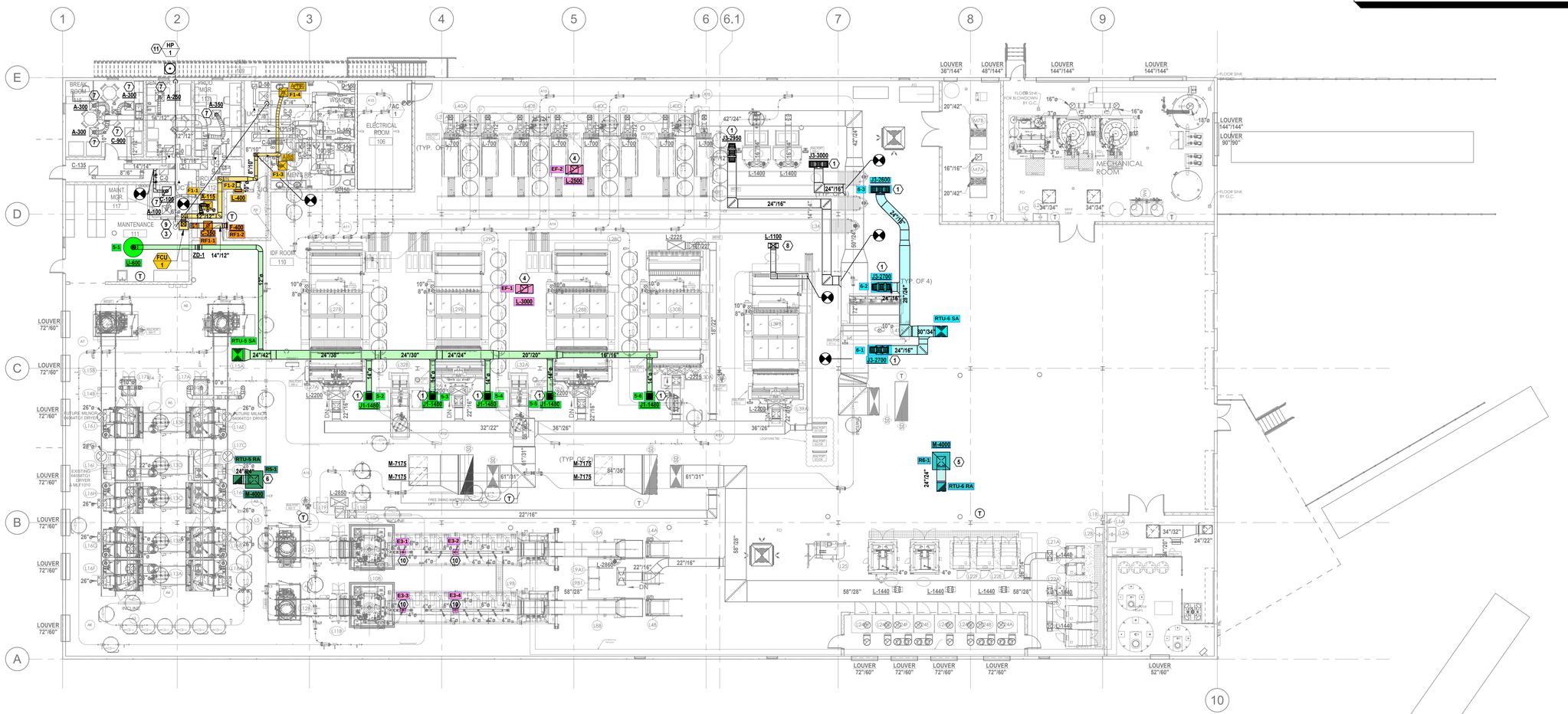
SHEET REFERENCE NOTES: (X)

1. EXTEND SUPPLY DUCT DOWN SO THAT DIFFUSER HEIGHT FROM FINISH FLOOR MATCHES EXISTING DIFFUSERS IN AREA.
2. ALL EXISTING DUCTWORK, PIPING AND EQUIPMENT TO REMAIN. NOT SHOWN FOR CLARITY.
3. MOUNT VERTICAL FAN COIL UNIT AS SHOWN IN DETAIL ON SHEET M-4.0. COORDINATE EXACT LOCATION OF UNIT AND THERMOSTAT WITH ELECTRICAL CONTRACTOR. SEE MANUFACTURER'S RECOMMENDATION FOR LINE SIZE. ROUTE TO HEAT PUMP ON 6" PAD ON GRADE. DO NOT EXCEED PIPE LENGTHS FOR REFRIGERANT PIPING AS RECOMMENDED BY THE MANUFACTURER.
4. KEEP GRILLE AS HIGH AS POSSIBLE FOR 20" X 20" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
5. EXTEND RETURN AIR DUCTS DOWN SO THAT RETURN GRILLE IS 12'-0" ABOVE FINISHED FLOOR.
6. EXTEND RETURN AIR DUCTS DOWN AS LOW AS POSSIBLE WITHOUT BLOCKING THE CLEARANCES FOR THE EQUIPMENT BELOW. FINAL HEIGHT TO BE APPROVED BY OWNER.
7. REBALANCE EXISTING GRILLES TO NEW VALUES SHOWN.
8. SHIFT EXISTING DIFFUSER. BRING DOWN TO MATCH HEIGHT OF EXISTING DIFFUSERS IN AREA.
9. PROVIDE WITH LITTLE GIANT CONDENSATE PUMP. ROUTE CONDENSATE TO JANITOR'S SINK.
10. MODIFY DUCTWORK WHERE TUNNEL WASHER EXHAUST FAN WAS REMOVED TO CREATE A FULLY FUNCTIONING EXHAUST SYSTEM. EXISTING 6" ROUND UP TO NEW UTILITY FANS ON ROOF. SEE SHEET M-2.2 FOR NEW FAN LOCATION.
11. HEAT PUMP LOCATED ON GRADE UNDERNEATH STAIRS. INSTALL HEAT PUMP ON PAD PER DETAIL ON SHEET M-4.0.

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND ADJUST DUCT ROUTING AS NECESSARY TO FIT WITHIN CURRENT STRUCTURAL LAYOUT.
2. THE FINAL LOCATION OF GRILLES/DIFFUSERS ARE TO BE APPROVED BY OWNER BEFORE CONSTRUCTION BEGINS.



1 **FLOOR PLAN - MECHANICAL**
3/32" = 1'-0"

PLAN NORTH

TRUE NORTH

02/22/2024 ISSUE FOR PERMIT

NO	REVISION/ SUBMISSION	DATE

2023 Rosen Laundry HVAC Enhancement

4100 Destination Parkway, Orlando, FL 32819

CA# 26306

INGENUITY ENGINEERS, INC.
"PROACTIVE ENGINEERING SOLUTIONS"
6275 HAZELTINE NATIONAL DR. ORLANDO, FLORIDA | 407.398.6007

DRAWN BY: CJZ	CHECKED/APPROVED BY: BSH
I23364.00	

FLOOR PLAN - MECHANICAL

BRIAN S. HESSINGER
LICENSE No.52660
STATE OF FLORIDA
PROFESSIONAL ENGINEER

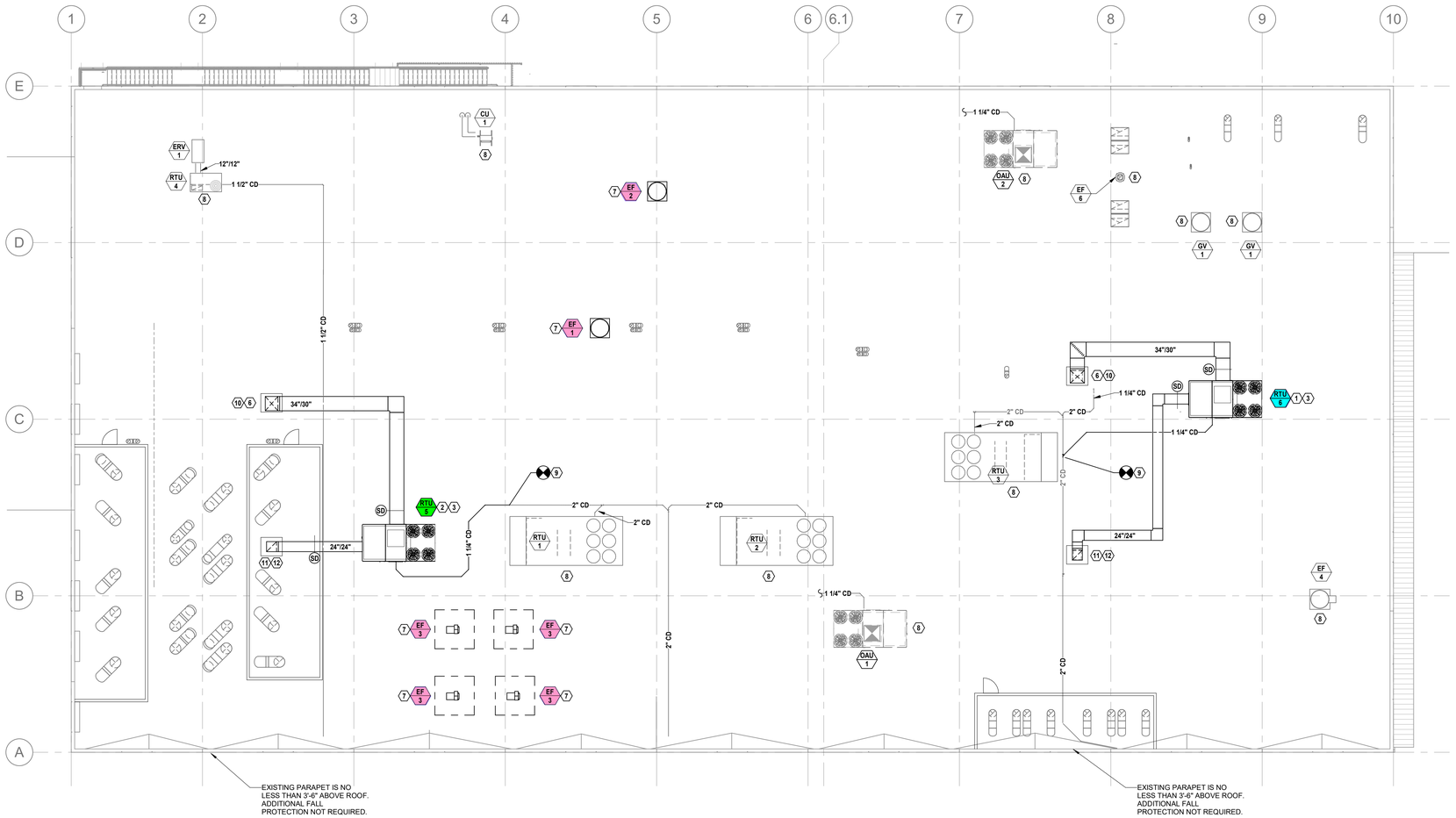
BRIAN S HESSINGER
PE 52660

SHEET NUMBER:
M-2.0

DATE: 2/22/2024 10:01:34 AM

SHEET REFERENCE NOTES: (X)

1. PROVIDE AND INSTALL NEW RTU (50% OUTSIDE AIR UNIT) ON NEW ROOF CURB. COORDINATE AS REQUIRED WITH EXISTING STRUCTURE. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION IN THE FIELD AND COMPLY WITH ALL MANUFACTURER AND CODE MINIMUM CLEARANCE REQUIREMENTS (E.G. 4'-0" ALL AROUND FOR ACCESS/MAINTENANCE AND 10'-0" FROM ANY EXHAUST AND OR VENTS.)
2. PROVIDE AND INSTALL NEW RTU (50% OUTSIDE AIR UNIT) ON EXISTING ROOF CURB. COORDINATE AS REQUIRED WITH EXISTING STRUCTURE. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION IN THE FIELD AND COMPLY WITH ALL MANUFACTURER AND CODE MINIMUM CLEARANCE REQUIREMENTS (E.G. 4'-0" ALL AROUND FOR ACCESS/MAINTENANCE AND 10'-0" FROM ANY EXHAUST AND OR VENTS.)
3. PROVIDE AND INSTALL NEW P-TRAP AND CONDENSATE PIPE SLOPED MINIMUM OF 1/8" PER FOOT. CONNECT TO EXISTING CONDENSATE DRAIN LINE (OF SUFFICIENT SIZE) OR TERMINATED INDIRECTLY AT NEAREST ROOF DRAIN.
4. MOUNT CONDENSING UNIT PER DETAIL ON SHEET M-3.0.
5. PROVIDE AND INSTALL NEW AIRWASHER LINT FILTER PER MANUFACTURER'S INSTRUCTIONS.
6. 34/30 DUCT DOWN THROUGH EXISTING ROOF CURB. PROVIDE ROOF CAP AND SEAL WATER TIGHT.
7. MOUNT EXHAUST FAN PER DETAIL ON SHEET M-4.0. TERMINATE EXHAUST DUCT IN GOOSENECK AWAY FROM INTAKE FOR RTUS.
8. EQUIPMENT IS EXISTING TO REMAIN.
9. CONNECT TO EXISTING CONDENSATE LINE. PROVIDE WITH LIKE MATERIAL.
10. 34/30 INSULATED SUPPLY AIR DUCT ON ROOF SUPPORT CURBS. REFER TO DETAILS ON SHEET M-4.0 FOR ADDITIONAL INFORMATION.
11. 24/24 DUCT DOWN THROUGH EXISTING ROOF CURB. PROVIDE ROOF CAP AND SEAL WATER TIGHT.
12. 24/24 INSULATED SUPPLY AIR DUCT ON ROOF SUPPORT CURBS. REFER TO DETAILS ON SHEET M-4.0 FOR ADDITIONAL INFORMATION.



1 **ROOF PLAN - MECHANICAL**
3/32" = 1'-0"

PLAN NORTH TRUE NORTH

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Digitally signed by Brian S Hessinger
DN: c=US, o=Florida, st=Florida, cn=Brian S Hessinger, email=bhessinger@ingenuity.com
Date: 2024.02.22 10:06:11-05'00'

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ROOF PLAN - MECHANICAL

BRIAN S. HESSINGER LICENSE No.52660 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRIAN S HESSINGER
PE 52660

SHEET NUMBER:
M-2.2

DATE: 2/22/2024 10:01:54 AM