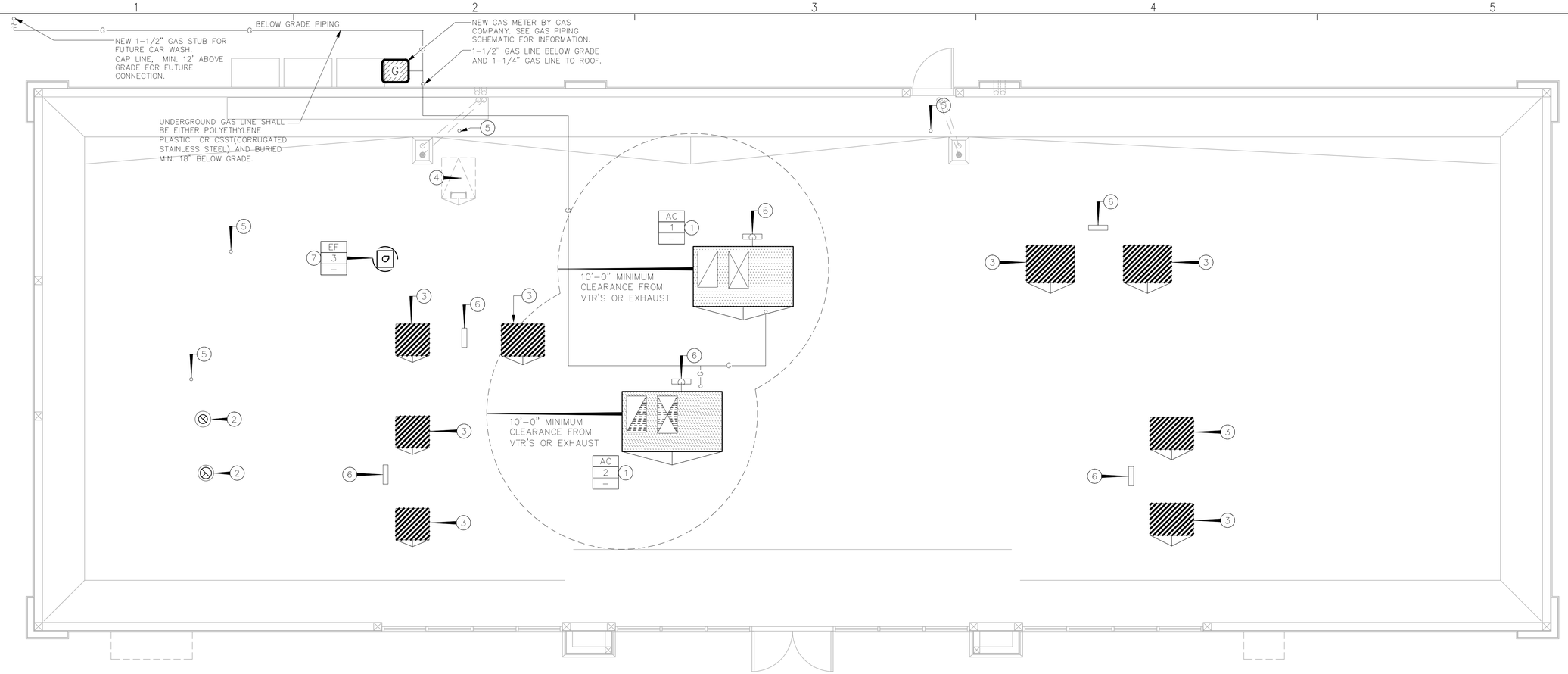


A1 MECHANICAL ROOF + GAS PLAN

1/4"=1'-0"

GENERAL NOTES

A. EQUIPMENT SHALL COMPLY WITH ASHRAE STANDARDS.

B. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, ACTS, AND AUTHORITIES HAVING JURISDICTION.

C. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARD OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.

D. ALL WORK SHALL BE LOCATED TO PROVIDE ADEQUATE CLEARANCE FOR ARCHITECTURAL DESIGN AND PROPER OPERATION AND SERVICE OF EQUIPMENT.

E. ALL WORK SHALL BE LOCATED TO AVOID CONFLICTS WITH OTHER TRADES. CLOSELY COORDINATES ALL WORK WITH ALL OTHER TRADES. FAILURE OF THE CONTRACTOR TOO COORDINATE WITH ALL OTHER TRADES SHALL RELIEVE THE OWNER/ENGINEER FROM ANY ADDED COSTS.

KEYED NOTES

1. ROOFTOP HVAC UNIT INSTALLED ON FACTORY CURB ON ROOF.
2. TWO (2) FACTORY ROOF CAPS FROM RESTROOM EXHAUST FANS. PROVIDE MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES ON HVAC UNITS.
3. CONDENSING UNIT FOR REFRIGERATION EQUIPMENT BY VENDOR SHOWN FOR REFERENCE ONLY. MOUNT ON WOOD PATTERN, CUT IN WEEP TROUGH. RIP SLEEPER FOR UNIT TO SET LEVEL. SEE 2009 IMC TABLE 1103.1 COMPLIANCE CALCULATIONS THIS PAGE FOR REFRIGERANT CONCENTRATION CALCULATIONS.
4. ROOF HATCH SHOWN FOR REFERENCE ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
5. VTR'S SHOWN FOR REFERENCE ONLY, REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION. PROVIDE MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES ON HVAC UNITS.
6. PIPE PORTAL FOR REFRIGERANT PIPING, ELECTRICAL CONDUIT AND/OR CONDENSATE LINE AS REQUIRED, REFER TO DETAIL 12/M1.1.
7. ROOFTOP EXHAUST FAN INSTALLED ON FACTORY ROOF CURB.

2009 IMC TABLE 1103.1 COMPLIANCE

REFRIGERANT TYPE IS 404a WITH MAXIMUM CONCENTRATION ALLOWANCE OF .031 lb./ft.³ PER TABLE TABLE 1103.1 OF THE 2009 IMC.

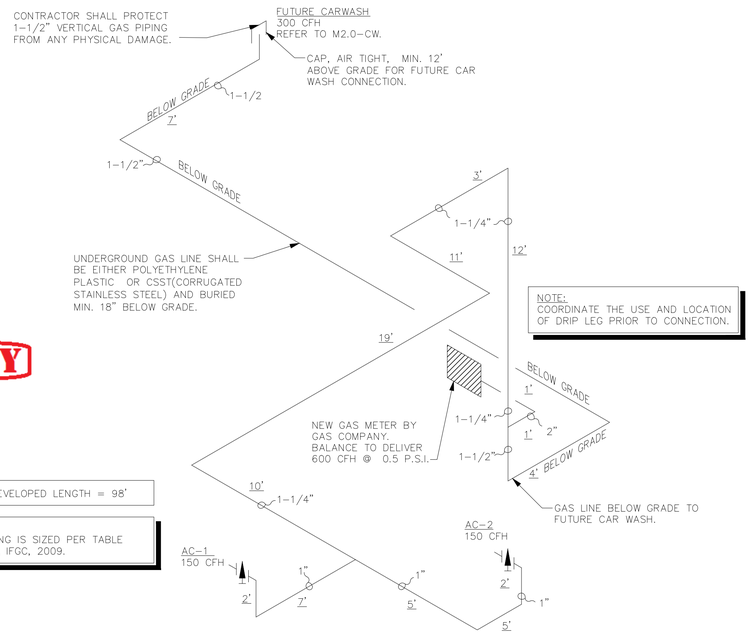
WALK-IN COOLER: 223 FT² x 8 FT WALL HT. = 1784 ft³
5 lb OF REFRIGERANT / 1784 FT³ = 0.003 lb/ft³ < 0.031 lb/ft³

WALK-IN COOLER: 272 FT² x 8 FT WALL HT. = 2176 ft³
7.4 lb OF REFRIGERANT / 2176 FT³ = 0.003 lb/ft³ < 0.031 lb/ft³

WALK-IN COOLER: 91 FT² x 8 FT WALL HT. = 726 ft³
2.8 lb OF REFRIGERANT / 726 FT³ = 0.004 lb/ft³ < 0.031 lb/ft³

WALK-IN FREEZER: 85 FT² x 8 FT WALL HT. = 678 ft³
3.7 lb OF REFRIGERANT / 726 FT³ = 0.005 lb/ft³ < 0.031 lb/ft³

FOR BID ONLY



A2 GAS RISER DIAGRAM

NO SCALE

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
01/19/15	PERMIT SET

PROFESSIONAL SEAL

COLORADO LICENSED PE 0048837 PROFESSIONAL ENGINEER

Signed: 01/19/15

PROFESSIONAL IN CHARGE
ERIC WOLF

PROJECT MANAGER
ALEX ADAIR

QUALITY CONTROL
DARCY HASBERRY

DRAWN BY
ALEX ADAIR

PROJECT NAME

CIRCLE K STORES, INC.

COLORADO SPRINGS COLORADO

E. FOUNTAIN BLVD & ACADEMY PARK LOOP

CIRCLE K STORES INC.

PROJECT NUMBER
20130780

SHEET TITLE
MECHANICAL ROOF & GAS PLAN

SHEET NUMBER
M2.1-CS

CIRCLE K SOUTHWEST PROTOTYPE 4480 - 08/13/2013
Drawing Name: P:\2013\2013038\CAD Mechanical Construction Documents 24" x 36"\Fountain and Academy Convenience Store\Produced\20130380-M2.1-CS.dwg Last Modified: Jan 19, 2015 - 9:06am Printed on: Jan 19, 2015 - 1:06pm by Jadair