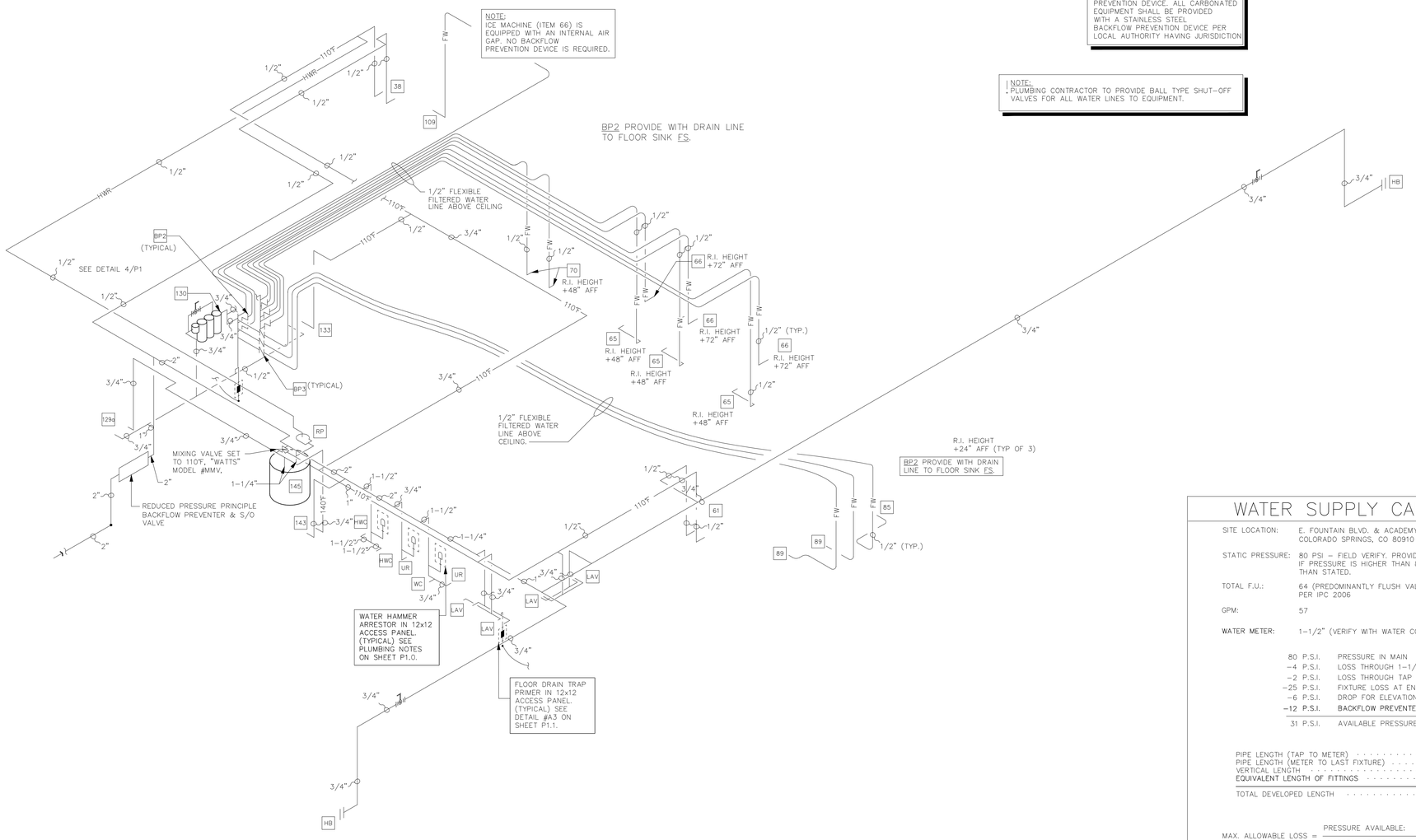

NOTE:
ALL CARBONATED AND NON-CARBONATED EQUIPMENT SHALL BE PROVIDED WITH A BACKFLOW PREVENTION DEVICE. ALL CARBONATED EQUIPMENT SHALL BE PROVIDED WITH A STAINLESS STEEL BACKFLOW PREVENTION DEVICE PER LOCAL AUTHORITY HAVING JURISDICTION.

NOTE:
PLUMBING CONTRACTOR TO PROVIDE BALL TYPE SHUT-OFF VALVES FOR ALL WATER LINES TO EQUIPMENT.

WATER SUPPLY CALCULATION

SITE LOCATION: E. FOUNTAIN BLVD. & ACADEMY PARK LOOP
COLORADO SPRINGS, CO 80910

STATIC PRESSURE: 80 PSI – FIELD VERIFY. PROVIDE WITH PRESSURE REDUCING VALVE IF PRESSURE IS HIGHER THAN 80 P.S.I., NOTIFY ENGINEER IF LOWER THAN STATED.

TOTAL F.U.: 64 (PREDOMINANTLY FLUSH VALVES) PER IPC 2006

GPM: 57

WATER METER: 1-1/2" (VERIFY WITH WATER COMPANY)

80	P.S.I.	PRESSURE IN MAIN
−4	P.S.I.	LOSS THROUGH 1-1/2" METER
−2	P.S.I.	LOSS THROUGH TAP
−25	P.S.I.	FIXTURE LOSS AT END
−6	P.S.I.	DROP FOR ELEVATION (14 FT.)
−12	P.S.I.	BACKFLOW PREVENTER
31	P.S.I.	AVAILABLE PRESSURE

PIPE LENGTH (TAP TO METER) . . . . . 209 FT.
PIPE LENGTH (METER TO LAST FIXTURE) . . . . . 140 FT.
VERTICAL LENGTH . . . . . 14 FT.
EQUIVALENT LENGTH OF FITTINGS . . . . . 181.5 FT.
TOTAL DEVELOPED LENGTH . . . . . 544.5 FT.

MAX. ALLOWABLE LOSS = PRESSURE AVAILABLE: 32.8 P.S.I. X 100 = 6.0 P.S.I./100 FT.
(PER 100 FT OF PIPE) TOTAL LENGTH: 545 FT.

SIZE PIPES PER 7 FT/SEC.

FOR BID ONLY

P1 HOT + COLD WATER PIPING SCHEMATIC
N.T.S. –

GreenbergFarrow

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
01/19/15	PERMIT SET

PROFESSIONAL SEAL
COLORADO LICENSED PE 0046031 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
SCHEMATICS

SHEET NUMBER
P3.1-CS

CIRCLE K SOUTHWEST REGIONTYPE 448D - 09/13/2013
Drawing Name: P:\2013\20130780\AR\Mechanical Construction Documents\P_MP\Furniture and Academy Convenience Store\Produced\20130780-P01-CD.dwg Last Modified: Jan 19, 2015 - 8:51am Plotted on: Jan 19, 2015 - 1:13pm by alador