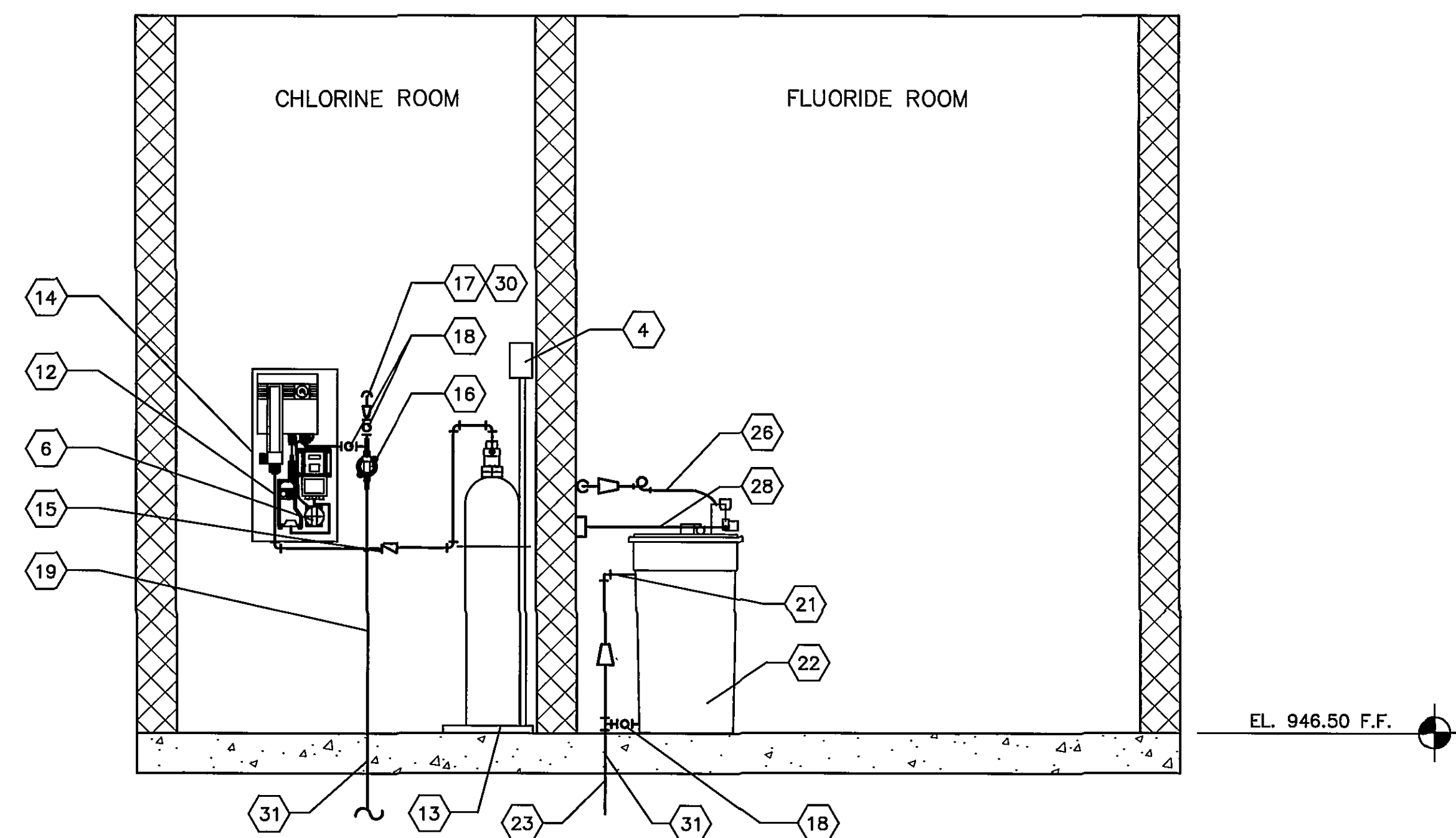
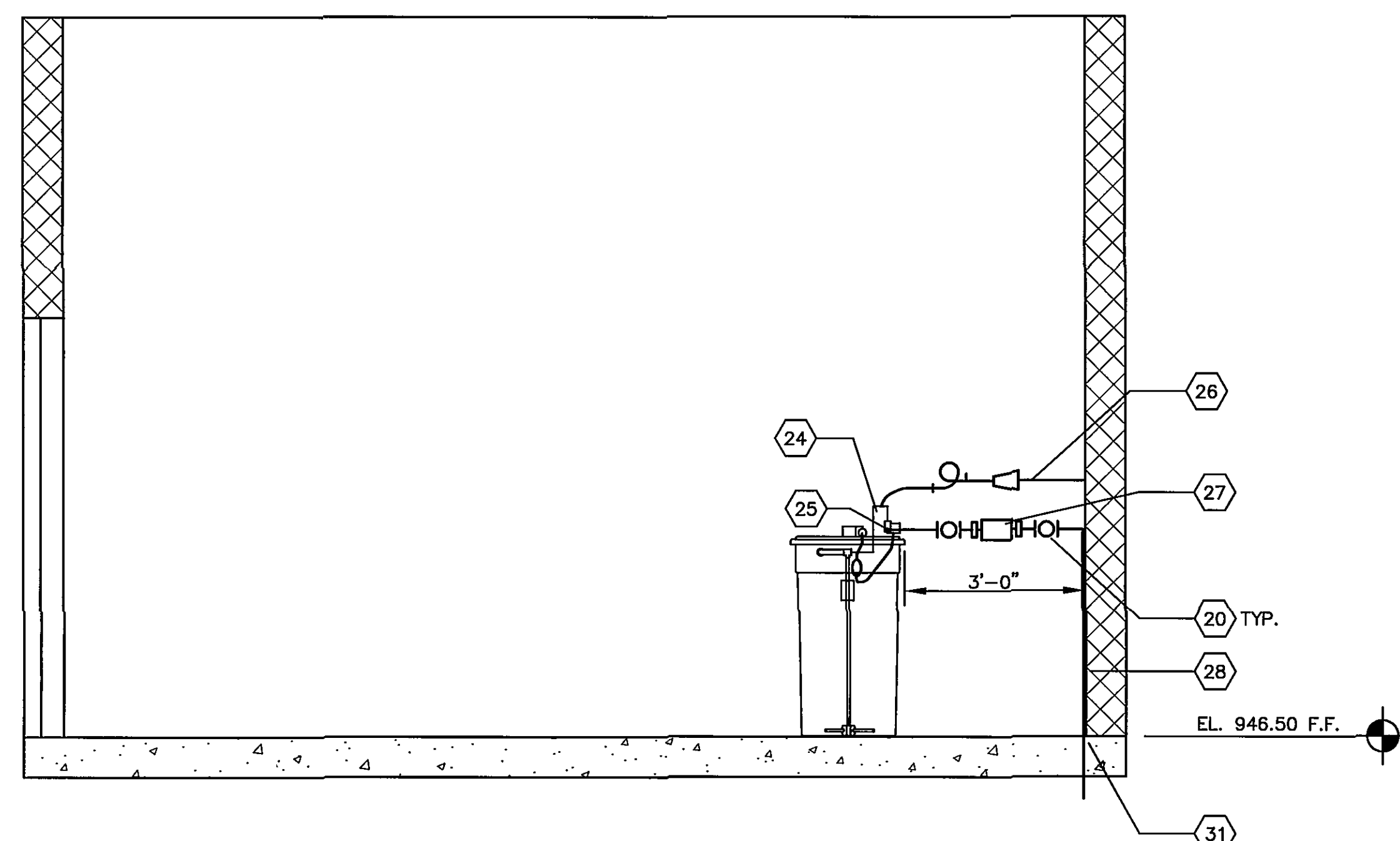


SECTION A
SCALE: 1/2" = 1'-0"
P-11



SECTION B
SCALE: 1/2" = 1'-0"
P-11



SECTION C
SCALE: 1/2" = 1'-0"
P-11

GENERAL NOTES

- A. OWNER WILL PROVIDE CHEMICALS FOR FULL SCALE OPERATIONS.
CONTRACTOR RESPONSIBLE FOR ALL CHEMICALS DURING START UP AND TESTING.

SPECIFIC NOTES

- | | |
|---|--|
| 1 CHLORINE DETECTOR READOUT PANEL | 16 1" FIXED THROAT ANTI-SYPHON INJECTOR |
| 2 CHLORINE DETECTOR | 17 1 1/4" CHLORINE SOLUTION TO CHEMICAL INJECTION VAULT |
| 3 150 LB CHLORINE CYLINDERS FOR REFERENCE ONLY | 18 1" BALL VALVE |
| 4 CYLINDER SCALES READOUT PANEL | 19 1" PW, SEE PLUMBING PLAN FOR CONTINUATION. |
| 5 1/2" CHLORINE VENT | 20 1/2" BALL VALVE |
| 6 VACUUM SWITCH | 21 1" NPT OVERFLOW CONNECTION |
| 7 1/2" FLEXIBLE TUBING | 22 50 GALLON FLUORIDE SATURATOR, WALLACE AND TIERNAN SERIES 47-050 OR APPROVED EQUAL |
| 8 WALL MOUNTED 4 TANK MANIFOLD WITH 2 AUTOMATIC SWITCHOVER VALVES WITH VACUUM REGULATORS & PRESSURE GAGE. | 23 2" PVC DRAIN |
| 9 1/2" PVC - CHLORINE GAS | 24 METERING PUMP |
| 10 AUXILIARY CYLINDER VALVE | 25 1/2" PW INLET CONNECTION |
| 11 150 LB CYLINDER RACK & CHAIN SYSTEM | 26 1 1/4" SATURATED FLUORIDE SOLUTION TO CHEMICAL INJECTION VAULT |
| 12 1/2" PVC - CHLORINE GAS TO CHLORINATORS | 27 5/8" STANDARD RESIDENTIAL WATER METER, WALL MOUNTED |
| 13 CHLORINE CYLINDER SCALES WITH CYLINDER CHAINS | 28 1/2" PW WATER INLET SUPPLY
SEE PLUMBING PLAN FOR CONTINUATION |
| 14 CHLORINATOR CONTROL PANEL MINIMUM 200 PPD, WALLACE AND TIERNAN MODEL V10K OR APPROVED EQUAL. | 29 1/2" CHLORINE VENT |
| 15 1/2" CHECK VALVE | 30 PIPE PENETRATION, SEE DETAIL 7, SHEET P-22 |
| | 31 FLOOR PENETRATION, SEE DETAIL 8, SHEET P-22. |

RECORD DRAWING
This record drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, HDR Engineering, Inc. cannot assure its accuracy, and thus is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

RECORD DRAWING
APRIL 28, 2003

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IN ASSOCIATION WITH
HDR
HDR Engineering, Inc.

DESIGNED ADE	DRAWN JMB	PROJECT CRYSTAL SPRING WATER TREATMENT PLANT FOR THE CITY OF ROANOKE, VIRGINIA
CHECKED PJD		REFERENCE PROCESS
COMM. NO.		TITLE CHLORINE AND FLUORIDE FEED SECTIONS
CADD NO.		DWG. NO. P-19
DATE AUGUST 27, 2001		SHEET NO. REV.

REV.	DATE	BY	APP.	DESCRIPTION
1	9/13/2001			REVISED AS PER ADDENDUM DATED (9/13/2001)
0	8/27/2001			ISSUED FOR CONSTRUCTION