

SHUT OFF WATER AND PUMP WATER
OUT OF LINE OR EXCAVATE BY STOP
BOX AND REMOVE PART OF THE LINE
EXISTING 4" CAST IRON LINE

PAIN T SHOP

MACHINE ROOM

SEE 2ND PAGE FOR ADDITIONAL FLOOR PLAN

1" BOILER WATER FEED
REMOVE EXISTING WATER METER AND RELOCATE
OR INSTALL NEW AS PER MERRILL WATER
UTILITY

BOILER ROOM

STOCK ROOM

HOSE RACK

REPAIR SHOP

TYPE OF FIXTURE	WATER SUPPLY	FIXTURE UNITS	HOT	COLD	TOTAL	UNITS	TOTAL	
WATER CLOSET - FLUSHOMETER				6.0	6.0	3	18.0	
URINAL - WASHDOWN				2.0	2.0	1	2.0	
LAVATORY			0.5	0.5	1.0	4	4.0	
SHOWER HEAD			1.0	1.0	2.0	1	2.0	
SERVICE SINK			2.0	2.0	3.0	1	3.0	
DRINKING FOUNTAIN				.25	.25	3	.75	
HOSE BIB 1/2" DIAMETER				3.0	3.0	9	27.0	
TOTAL							56.75	
WATER SUPPLY							51.0	= 30.8 GPM

CONTROLLING FIXTURE - PRESS-BALANCED SHOWER IN LOCKER ROOM 20 P 41
 FLUSHOMETER FIXTURE UNITS = 18.0
 FLUSH TANK FIXTURE UNITS = 38.75

- A 15.33 - PRESS AVAILABLE FOR UNIFORM LOSS (P41/100' OF PIPE)
- B 55 - AVAILABLE PRESS AFTER WATER METER
- C 20 - PRESSURE NEEDED AT CONTROLLING FIXTURE
- D 6.94 - DIFFERENCE IN ELEVATION (METER TO SHOWER 16' x .434 = 6.94)
- E 0 - PRESSURE LOSS DUE TO WATER SOFTENER, ETC.
- F 183 - DEVELOPED LENGTH FROM METER TO SHOWER 122' x 1.5

$$A = \frac{B \cdot (C + D + E) \times 100}{F}$$

$$= \frac{55 \cdot (20 + 6.94 + 0) \times 100}{183}$$

$$= \frac{55 \cdot (26.94) \times 100}{183}$$

$$= \frac{(1481.7) \times 100}{183}$$

$$= 810.22 \times 100 = 81022$$

$$A = 15.33 \text{ P 41}$$

2" WATER METER W/
1/2" BYPASS

6 GAL. ELECTRIC
WATER HEATER

HOSE RACK

HB

HB

HB

EXISTING 8" DUCTILE
WATER SERVICE

WC1

WC1

INSTALL 1/2" LINE TIGHT TO MEN'S ROOM
CEILING & TIGHT TO HALL ROOM FLOOR

L1

UR1

L1

DF1

EXPOSE WATER LINES IN WOMEN'S
ROOM - DRILL THROUGH WALLS
TO MEN'S ROOM FOR SUPPLY

GENERAL OFFICE

WC1

UR1

L1

S1

SST

DF2

LOCKER RM.

TRUCK PASSAGE

SEE ENLARGED DETAIL
ON PAGE 2

EMPLOYEE'S RM.

NOTE:
DISCONTINUE EXISTING WATER
LINES UNDER FLOOR AND REROUTE
OVERHEAD.

8" DUCTILE OFF 12" DUCTILE MAIN

TITLE	LINCOLN COUNTY HIGHWAY GARAGE	DRAWING NO.	PAGE 1
CITY of MERRILL	STATE of WISCONSIN	REVISED	
DRAWN FOR	LINCOLN COUNTY		
DATE	JAN 16 90	DRAWN BY	RLA
SCALE	AS NOTED	APPROVED BY	
FILE NO.		FIELD BOOK NO.	