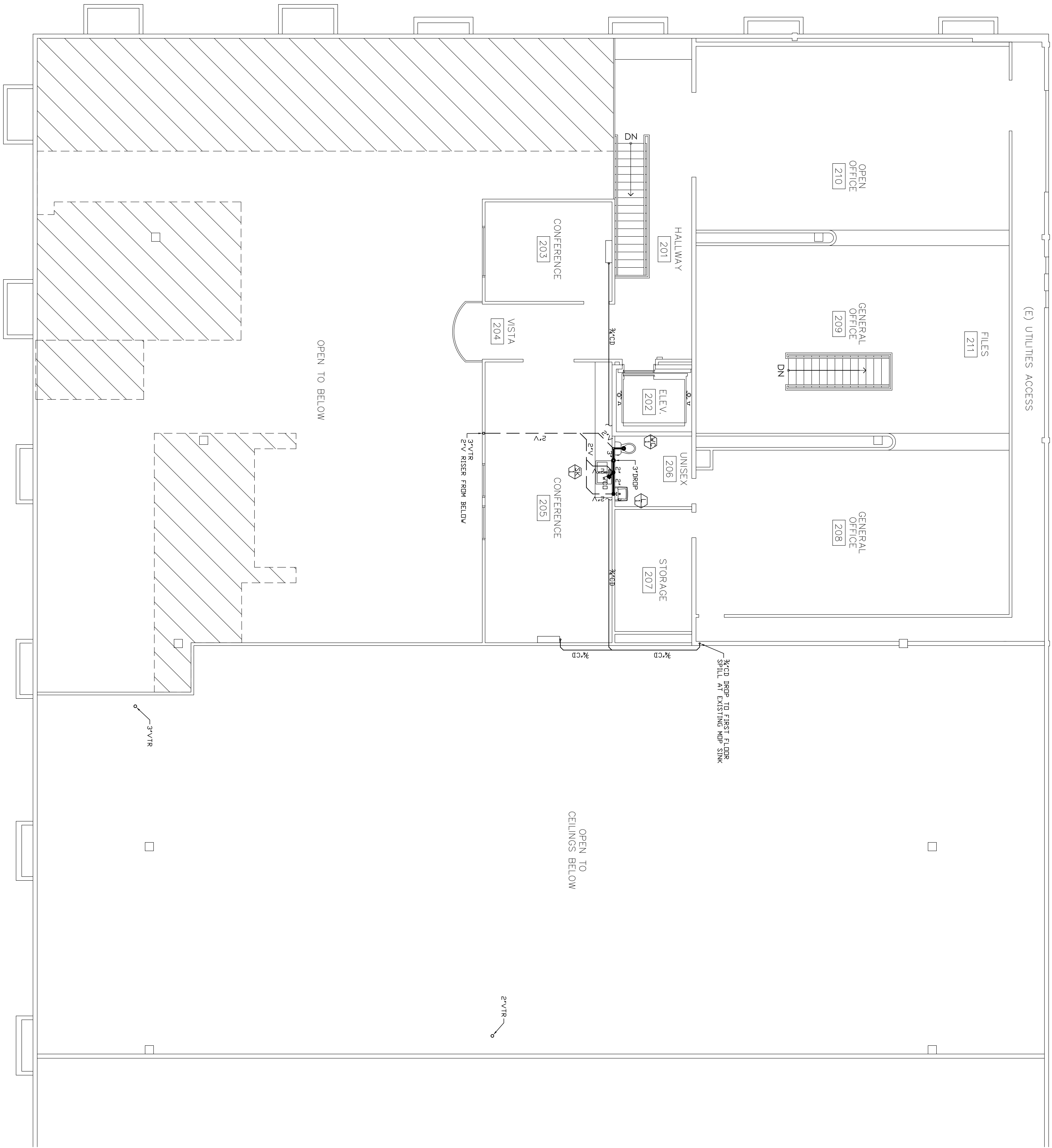


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LICENSE #724566



ALL VENT THRU ROOF MUST HAVE UP CLEARANCE
FROM ANY FRESH AIR INTAKE & EXHAUST
2. CONNECTION SCHEDULE SHALL BE ON THE SIDE SIDE
3. HWP & FLUSH LEVER SHALL BE ON THE WIDE SIDE

REVISIONS:

PROPOSED TENANT IMPROVEMENT FOR:

CENTER FOR HUMAN SERVICES

2000 W. BRIGGSMORE, SUITE I
MODESTO, CALIFORNIA 95350

DRAWN:

H. TURNER

DATE:

10/31/2014

FILE:

JOB:

PRINT DATE:

10/31/2014

TITLE:

WASTE & VENT
PIPING PLAN
SECOND FLOOR

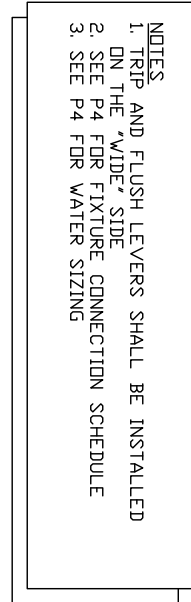
SCALE: 1/8"=1'-0"

SHEET NO. P1.2

DEHART
Plumbing, Heating & Air, Inc.
SINCE 1946

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DEHART PLUMBING, HEATING & AIR, INC.



PROPOSED TENANT IMPROVEMENT FOR:

CENTER FOR HUMAN SERVICES

2000 W. BRIGGSMORE, SUITE 1
MODESTO, CALIFORNIA 95350

REVISIONS

DRAWN

11. 710

93

10/31/

FILE:

JOB:

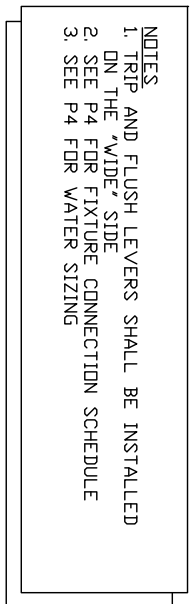
PRINT

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TITLE:
WATER PIPING PLAN
FIRST FLOOR

SCALE: 1/8"=1'-0"

SHEET NO. P2.1



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2000 W. BRIGGSMORE, SUITE 1
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REVISIONS

DRAWN: H TIPNER

10/31/2014

FILE:

JOB:

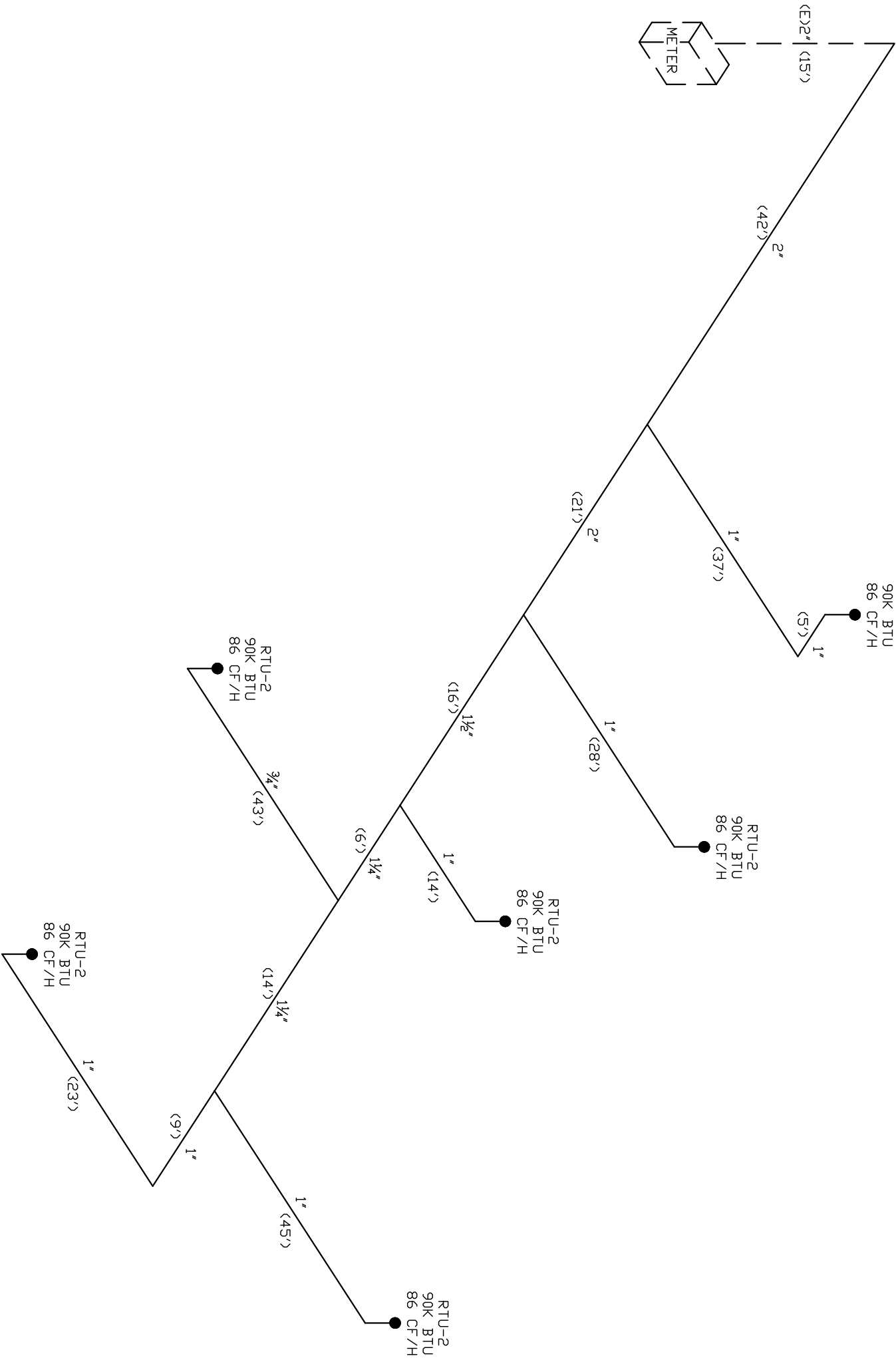
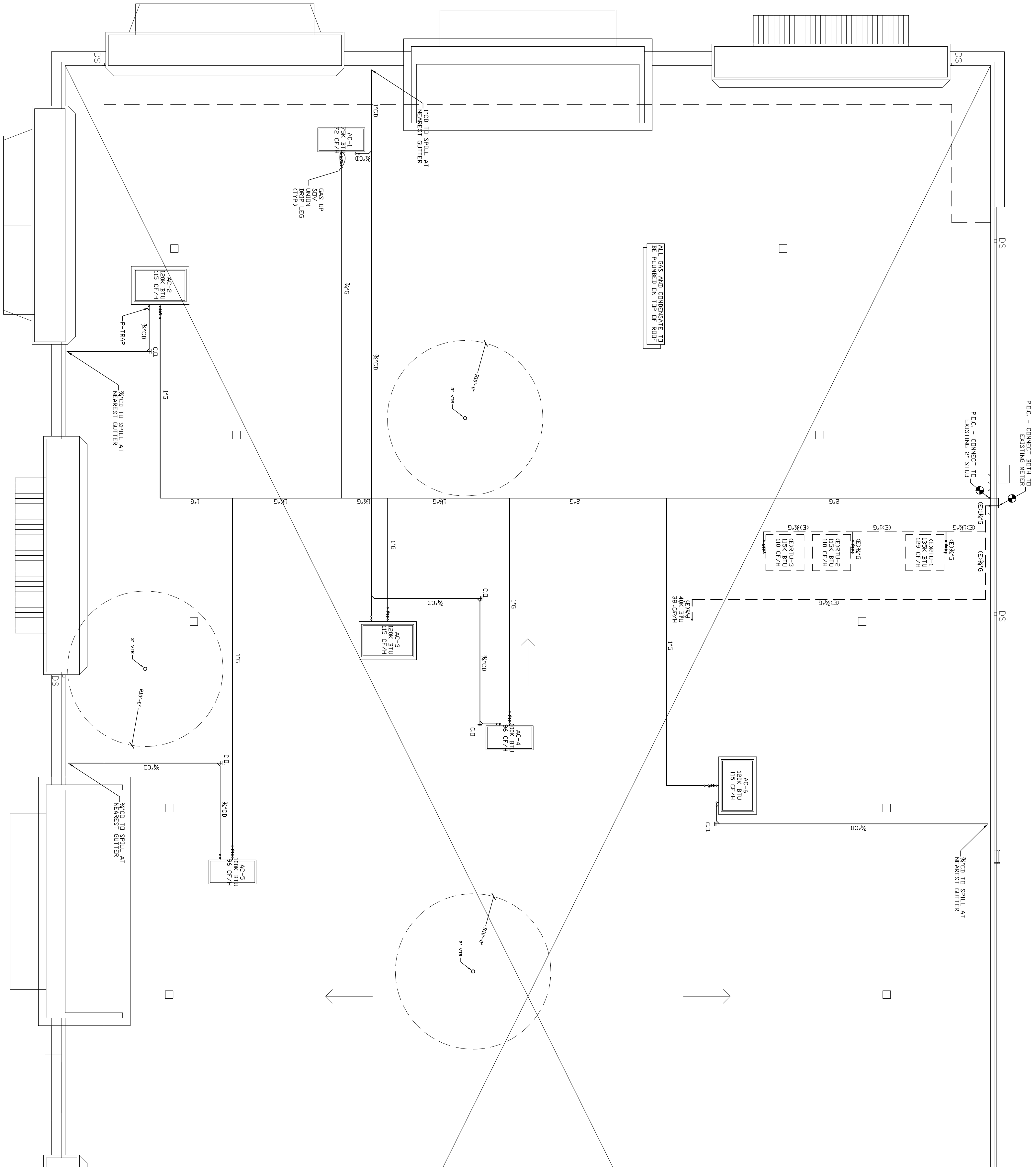
10/31/2014

TITLE:
WATER PIPING PLAN
SECOND FLOOR

SCALE: 1/8"=1'-0"

SHEET NO. P.2.2

COMPLETE GAS SIZING			
(E) TOTAL BTU/HR	405,000		
(E) TOTAL CF/HR	386		
(N) TOTAL BTU/HR	635,000		
(N) TOTAL CF/HR	605		
(N) TOTAL DEV. LENGTH	158'		
(N) SIZE REQUIRED	2"		
SIZED PER 2013 CPC 1216.2(1)			



PROPOSED TENANT IMPROVEMENT FOR:

CENTER FOR HUMAN SERVICES

2000 W. BRIGGSMORE, SUITE I
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REVISIONS:

DRAWN:	H. TURNER
DATE:	10/31/2014
FILE:	
JOB:	
PRINT DATE:	10/31/2014

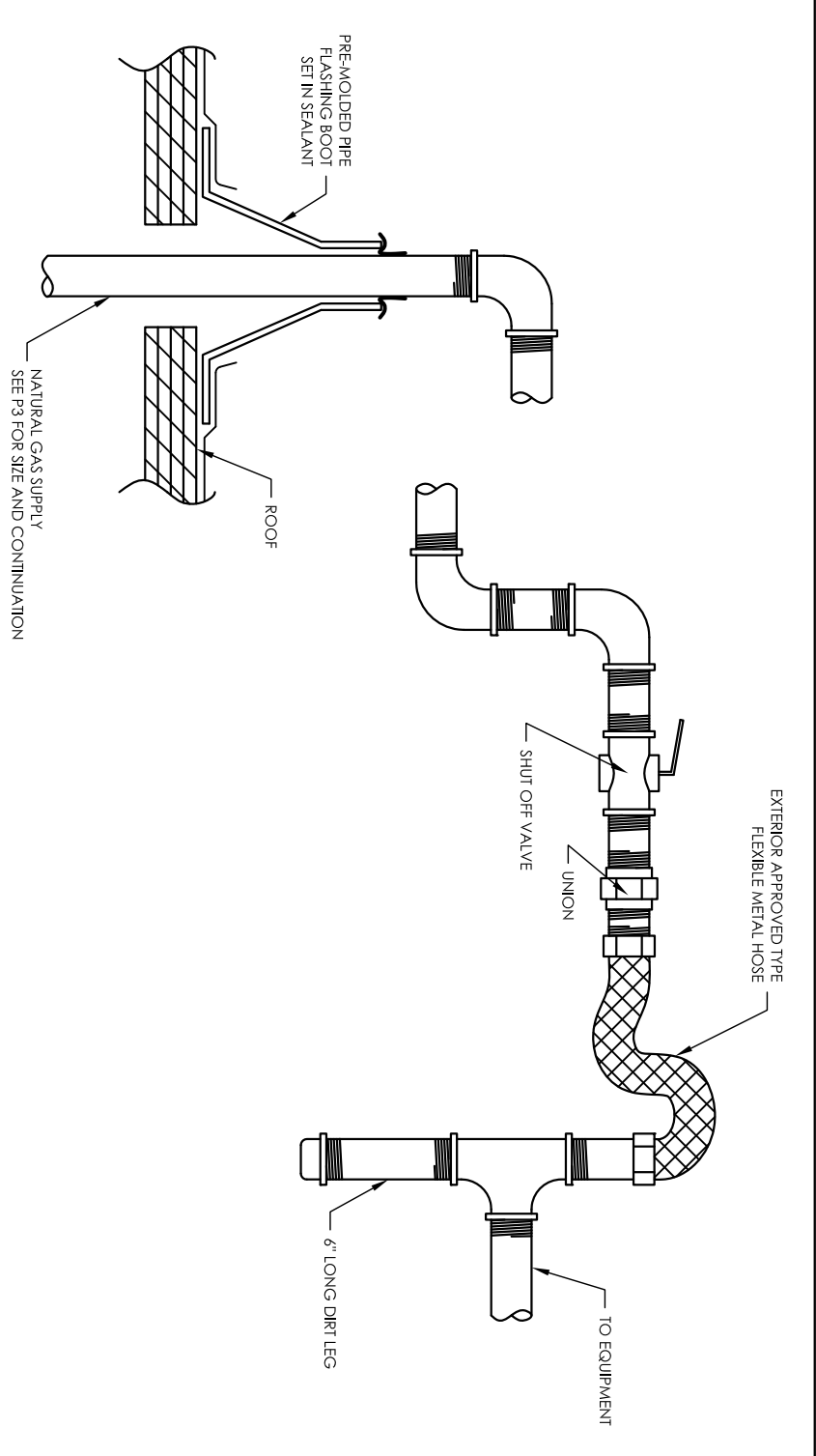
TITLE:
GAS & CONDENSATE
PIPING PLAN

SCALE: 1/8"=1'-0"
SHEET NO. P3

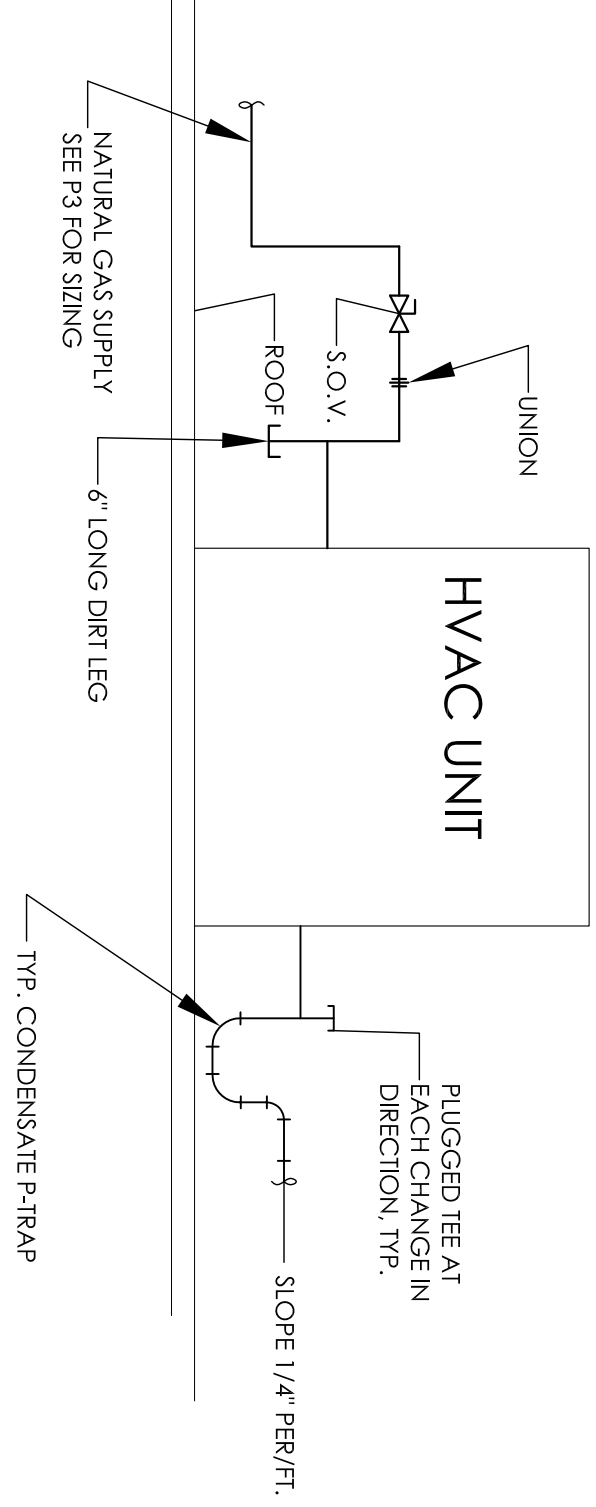


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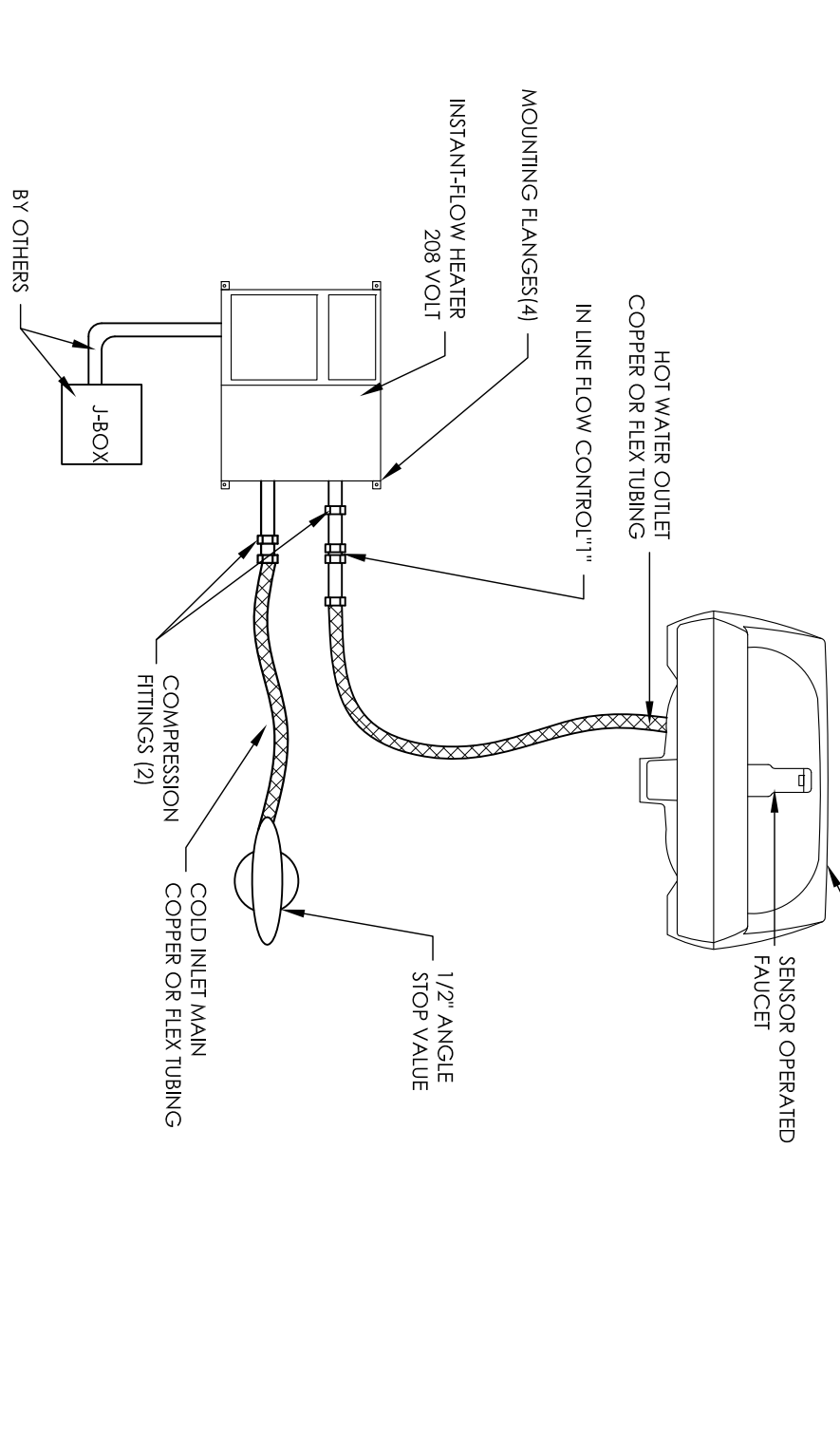
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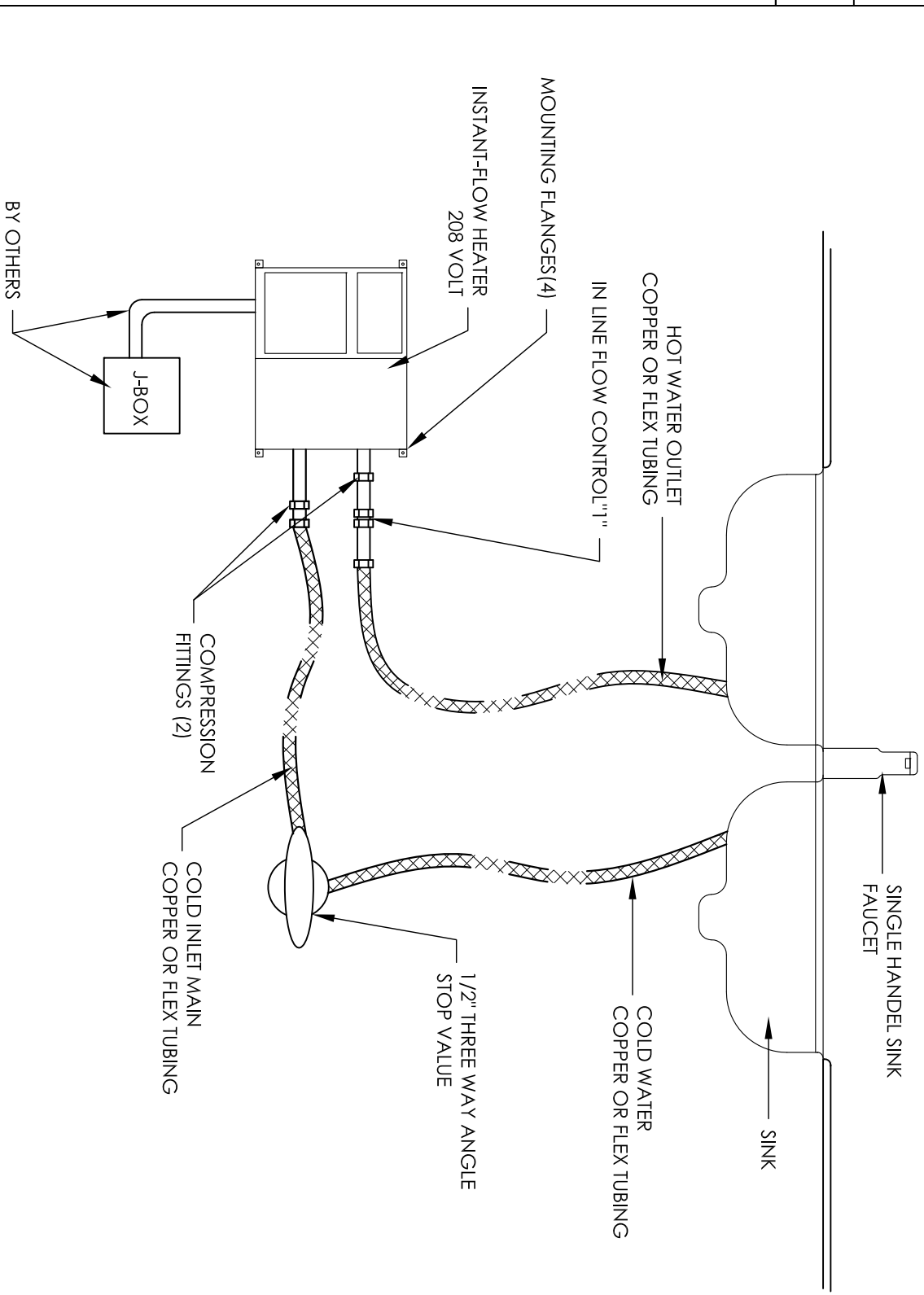
TYP. GAS PIPING DETAIL



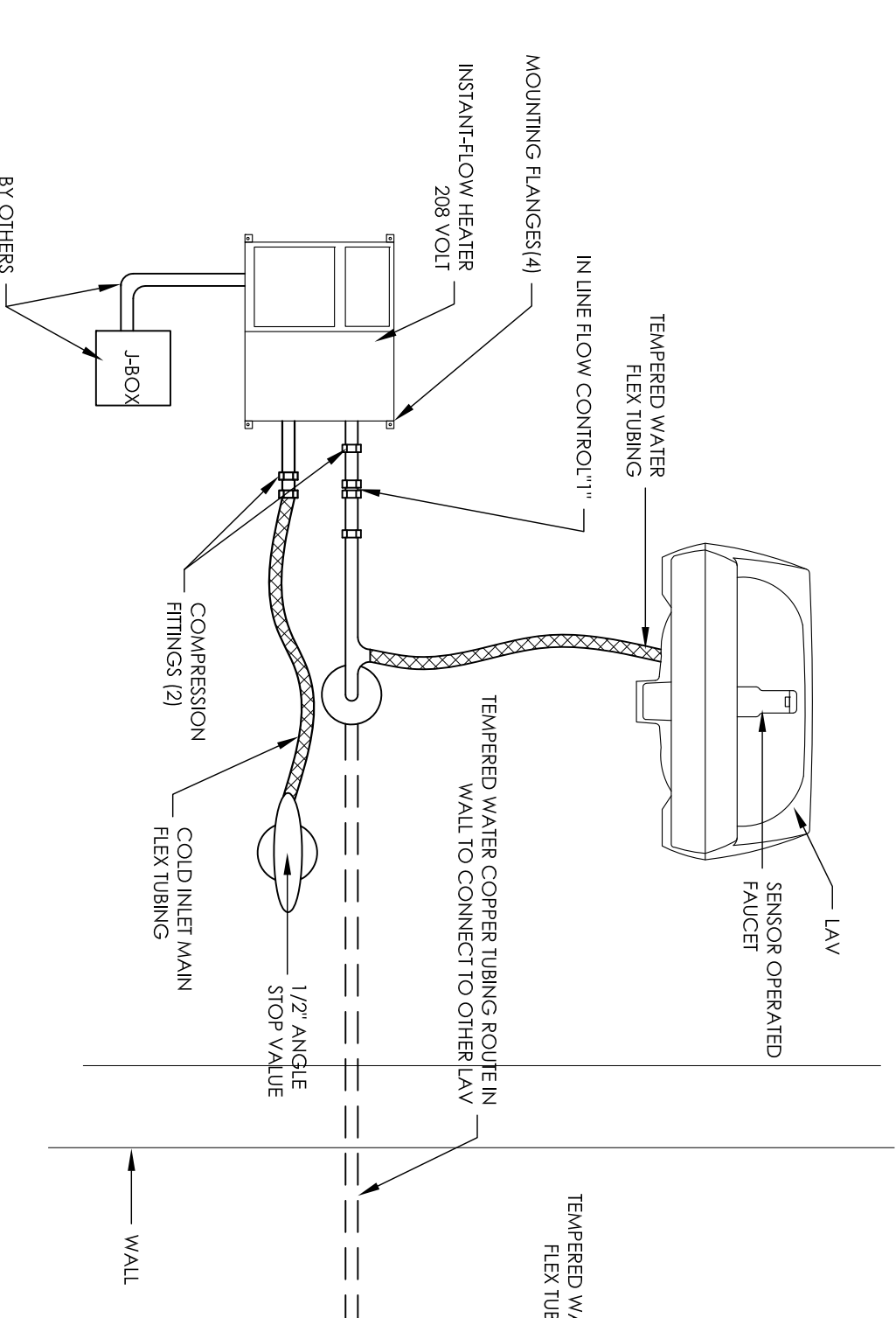
RTU PIPING DETAIL



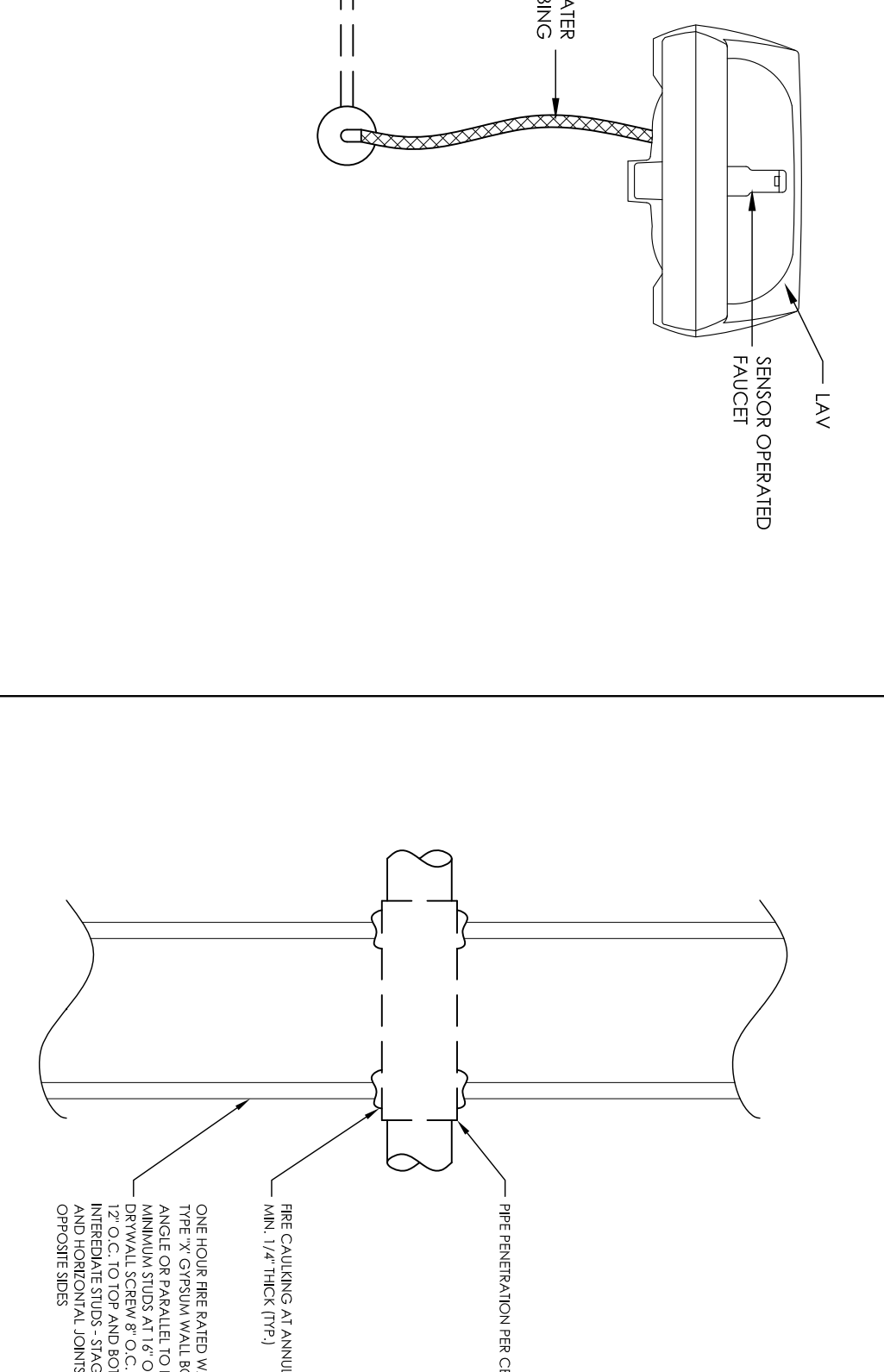
IWH-1 AT L-1



IWH-2 AT SK-1



IWH-1 AT L-1 SIDE-BY-SIDE RESTROOMS



PIPING PENETRATION DETAIL

CHART 19-63

DOMESTIC WATER DEMAND AND PIPE SIZING

WATER PIPES SHALL BE SIZED BY APPENDIX "A" OF THE CALIFORNIA PLUMBING CODE

WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

1. PRESSURE LOSSES IN THE SYSTEM DUE TO BACK FLOW PREVENTION VALVE, WATER SOFTENER, ETC. (EXCEPT WATER METERS).
2. STRUCTURES WITH TWO OR MORE STORIES.
3. STRUCTURES OVER TWO STORES.
4. TOTAL DEVELOPED LENGTH OVER 1,000 FEET.

DATE: 10/24/2014 PREPARED BY: H. TURNER

PROJECT: CENTER FOR HUMAN SERVICES LOCATION: MODESTO, CA

WATER METER SIZE: 2 EQUAL TOTAL GPM: 15

TOTAL FUTURE UNITS: 205 TOTAL FUTURE PLUG FIXTURE: 130

TOTAL DISTANCE FROM METER TO MOST REMOTE PLUG FIXTURE: 130

TOTAL RISE FOR HEAD LOSS FT.: 15 X 0.43

PSI REQUIRED FOR WATER CLOSURE TANK (T.V. = 150 PSI, F.T. = 80 PSI)

PSI FLOW LOSS THROUGH WATER METER (CHART A-1)

PSI FLOW LOSS THROUGH BACK FLOW PREVENTER (BFP=120 PSI, D.C.=120 PSI)

TOTAL SYSTEM LOSS

MINIMUM PSI AVAILABLE @ JOB SITE

TOTAL SYSTEM LOSS IN PSI

REMAINING PSI AVAILABLE (IF NEGATIVE USE BOOSTER PUMP)

BOOSTER PUMP PSI

TOTAL REMAINING PSI AVAILABLE

PSI AVAILABLE 23.55 / 130 TOTAL FEET = 0.181 X 100 18.1 PSI/100 FT.

USE LINE 1" ON CHART A.4.1

1" PIPE WILL DELIVER 28 GPM FOR 0 F.T.V. FUTURE UNITS 50 F.T. FUTURE UNITS

3/4" PIPE WILL DELIVER 14 GPM FOR 0 F.T.V. FUTURE UNITS 18 F.T. FUTURE UNITS

1/2" PIPE WILL DELIVER 4.5 GPM FOR 0 F.T.V. FUTURE UNITS 2 F.T. FUTURE UNITS

F.T. = FLUSHMETER

F.T. = FLUSH TANK

WATER DEMAND

FIXTURE DESCRIPTION	QTY	WSFU EACH	TOTAL F.U.	HOT F.U.	HOT F.U.
WC-1 (TANK)	4	2.5	10.0	—	—
L-1	4	1.0	4.0	0.75	3.0
SK-1	3	1.5	4.5	1.125	3.375
SK-2	1	1.5	1.5	1.125	1.125
DF-1	1	0.5	0.5	—	—
TOTAL(S)			20.5		7.5
GPM/GPH			15/900		7/420

1" MINIMUM REQUIRED PER 2013 CPC

MAXIMUM WATER SIZING

FIXTURE DESCRIPTION	QTY	DFU EACH	TOTAL F.U.
WC-1 (TANK)	4	4.0	16.0
L-1	4	1.0	4.0
SK-1	3	2.0	6.0
SK-2	1	2.0	2.0
DF-1	1	0.5	0.5
TOTAL(S)			28.5

3" MIN. REQUIRED PER 2013 CPC

MAXIMUM WASTE SIZING

WC	KOHLER #K-3909 WHITE "HIGHLINE" ADA TANK TYPE WATER CLOSET WITH PROFLO #PFTSCOF-2000WH SEAT
L	KOHLER #2005 "KINGSTON" WALL HUNG LAVATORY WITH ZURN #Z6915-XL AQUASENSE BATTERY POWERED CHROME FAUCET
SK	ELKAY #ELUHAD216 - 31 3/4" X 16 1/2" X 5 1/2" LUSTERTONE UNDERMOUNT STAINLESS STEEL DOUBLE BOWL SINK W/Delta #D4310L-F-SS SINGLE HANDLE PULL-OUT FAUCET
DF	ELKAY #EZ-STL-8LC - B-LEVEL ADA APPROVED ELECTRIC DRINKING FOUNTAIN
IWH	CHRONOMITE #M-20L/208 - 208 VOLT - INSTANT-FLOW MICRO - LOW FLOW INSTANTANEOUS WATER HEATER
IWH	CHRONOMITE #M-40/208 - 208 VOLT - INSTANT-FLOW MICRO - STANDARD FLOW INSTANTANEOUS WATER HEATER
FCO	WATTS #CO-200-R CAST IRON FLOOR CLEAN OUT WITH 6" ROUND NICKLE BRONZE TOP

DFU	DRAINAGE FIXTURE UNITS
WSFU	WATER SUPPLY FIXTURE UNITS
VTR	VENT THROUGH ROOF
WCO	WALL CLEAN OUT
FCO	FLOOR CLEAN OUT
GCO	GRADE CLEAN OUT
SOV	SHUT OFF VALVE

H	-----	HOT WATER
HWR	-----	HOT WATER RETURN
C	-----	COLD WATER
V	-----	VENT
W	-----	WASTE
G	-----	GAS
CD	-----	CONDENSATE

PLUMBING LEGEND

1. ALL WASTE AND VENT PIPING SHALL BE ABS - SLOPED AT 1/2" PER FOOT OR AS NOTED ON PLAN.
2. ABOVE SLAB WATER PIPING SHALL BE TYPE "L" COPPER TUBE WITH WROUGHT COPPER FITTINGS SOLDERED WITH LEAD FREE SOLDER.
3. BELOW SLAB WATER PIPING SHALL BE TYPE "K" COPPER TUBE WITH WROUGHT COPPER SOCKET FITTINGS SOLDERED WITH LEAD FREE SOLDER.
4. CONDENSATE PIPING SHALL BE TYPE "W" COPPER TUBE WITH WROUGHT COPPER FITTINGS AND LEAD FREE SOLDER.
5. ALL PLUMBING FIXTURES INSTALLED MEET THE REQUIREMENTS OF CALIFORNIA GREEN BUILDING STANDARDS CODE SECTIONS 5.303.8
6. ALL PLUMBING AND PLUMBING FIXTURES SHALL COMPLY WITH TITLE 24 HANDICAPPED STANDARDS AND REGULATIONS.
7. PROVIDE SEEBING RESTRAINTS AND EXPANSION TANK AT WATER HEATERS. PER 2013 C.P.C.
8. PROVIDE TEMPERATURE AND PRESSURE RELIEF AT WATER HEATER AND INSTAL PIPING AT 1/2" PER FOOT SLOPE TO BUILDING EXTERIOR AS SHOWN.
9. EXPOSED P-TRAPS SHALL BE WRAPPED TO PROTECT THE HANDICAPPED.
10. TRAP AND FLUSH LEVERS SHALL BE INSTALLED ON THE WIDE SIDE TO ACCOMMODATE THE HANDICAPPED.
11. WATER CLOSET FLUSHMETERS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH IN COMPLIANCE WITH CALIFORNIA GREEN BUILDING STANDARDS CODE SECTIONS 5.303.8
12. URINAL FLUSHMETERS SHALL NOT EXCEED 1.6 GALLONS PER FLUSH IN COMPLIANCE WITH CALIFORNIA GREEN BUILDING STANDARDS CODE SECTIONS 5.303.8
13. LAVATORY FAUCETS SHALL NOT EXCEED 0.45 GPM @ 60 PSI IN COMPLIANCE WITH CALIFORNIA GREEN BUILDING STANDARDS CODE SECTIONS 5.303.8
14. SINK FAUCETS SHALL NOT EXCEED 1.2 GPM @ 60 PSI IN COMPLIANCE WITH CALIFORNIA GREEN BUILDING STANDARDS CODE SECTIONS 5.303.8
15. KITCHEN SINK FAUCETS SHALL NOT EXCEED 1.5 GPM @ 60 PSI IN COMPLIANCE WITH CALIFORNIA GREEN BUILDING STANDARDS CODE SECTIONS 5.303.8
16. VENT SHALL TERMINATE THRU ROOF PER 2013 C.P.C. - VENTS SHALL MAINTAIN 10'-0" MINIMUM FROM ANY FRESH INTAKES.
17. NON-REMOVABLE VACUUM BREAKERS SHALL BE INSTALLED ON ALL HOSE BIBS AND MOP SINKS. PER 2013 C.P.C.

BUILDING PLUMBING NOTES

	SYN.	WASTE	TRAP	VENT	C/W	H/W
WATER CLOSET(TANK)	WC	3"	3"	2", 4"	1/2"	1/2"
WATER CLOSET(FLUSH)	WC	3"	3"	2", 4"	1/2"	1"
URINAL	UR	2"	2"	2"	1"	3/4"
LAVATORY	LAV	2"	2"	2"	3/4"	1/2"
SINK(KITCHEN)	S	2"	2"	2"	3/4"	1/2"
SERVICE SINK	SS	3"	3"	3"	3/4"	1/2"
SHOWER	SH	2"	2"	2"	3/4"	1/2"
BATH/TUB	BT	1.5"	1.5"	1.5"	3/4"	1/2"
DRINKING FOUNTAIN	DF	1.5"	1.5"	1.5"	3/4"	1/2"
FLOOR DRAIN 2" & 3" FD	2", 3"	2", 3"	2", 3"	2", 3"	---	---
FLOOR SINK	FS	2"	2"	2"	---	---
CLOTHES WASHER	CW	2"	2"	2"	3/4"	1/2"
HOSE BIBB	HB	---	---	---	3/4"	3/4"

FIXTURE CONNECTION SCHEDULE

PROPOSED TENANT IMPROVEMENT FOR:

CENTER FOR HUMAN SERVICES

2000 W. BRIGGSMORE, SUITE I
MODESTO, CALIFORNIA 95350

REVISIONS:

DRAWN: H. TURNER

DATE: 10/31/2014

FILE:

JOB:

PRINT DATE: 10/31/2014

TITLE: PLUMBING NOTES, SCHEDULE & DETAILS

SCALE: NOT TO SCALE

SHEET NO. P4

DEHART
Plumbing, Heating & Air, Inc.
SINCE 1946

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LICENSE #724566

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