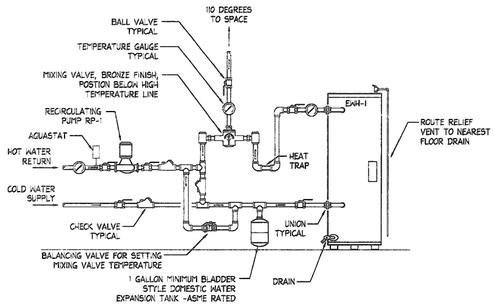
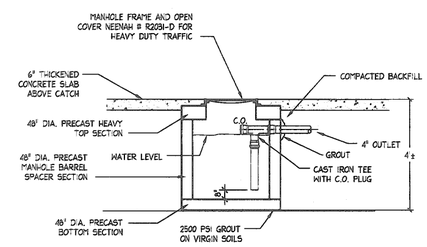
MECHANICAL SYMBOLS (NOT ALL SYMBOLS APPLY TO THESE SHEETS)

	EC	ELECTRICAL CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	TCC	TEMPERATURE CONTROL CONTRACTOR
	MC	MECHANICAL CONTRACTOR
	SMC	SHEET METAL CONTRACTOR
	MD	MANUAL DAMPER
M	MDD	MOTOR OPERATED DAMPER
	FD	FIRE DAMPER
	RG	RETURN REGISTER
	EG	EXHAUST GRILL
	EF	EXHAUST FAN
	TB	TERMINAL BOX
	RA	RETURN AIR
	SA	SUPPLY AIR
	OA	OUTSIDE AIR
	OAL	OUTSIDE AIR LOUVER
	EAL	EXHAUST AIR LOUVER
	BDD	BACKDRAFT DAMPER
T		THERMOSTAT
		SHEET METAL TRANSITION
TS		TAMPER SWITCH
FS		FLOW SWITCH
PG		PRESSURE GUAGE
T		THERMOMETER
FD		FLOOR DRAIN
S		SINK
WC		WATER CLOSET
L		LAVATORY
U		URINAL
MB		MOP BASIN
CO		CLEANOUT
HB		HOSE BIBB
MXV		WATER MIXING VALVE
VTR		VENT THRU ROOF
LAT		LEAVING AIR TEMPERATURE
LWT		LEAVING WATER TEMPERATURE
EAT		ENTERING AIR TEMPERATURE
EWT		ENTERING WATER TEMPERATURE
MAT		MIXED AIR TEMPERATURE
VFD		VARIABLE FREQUENCY DRIVE
TSP		TOTAL STATIC PRESSURE
ESP		EXTERNAL STATIC PRESSURE
EWT		ENTERING WATER TEMPERATURE
CFM		CUBIC FEET PER MINUTE
F.C.		FORWARD CURVED FAN
FPF		FINS PER FOOT
APD		AIR PRESSURE DROP
GPM		GALLONS PER MINUTE
TCP		TEMPERATURE CONTROL PANEL
MBH		1000 BTU PER HR
HP		HEAT PUMP
FDC		FIRE DEPARTMENT CONNECTION
CHWS		CHILLED WATER SUPPLY
CHWR		CHILLED WATER RETURN
HWS		HOT WATER SUPPLY
HWR		HOT WATER RETURN
HPS		HEAT PUMP SUPPLY
HPR		HEAT PUMP RETURN
S		SUCTION
L		LIQUID
V		VENT FROM FURNACE
CA		COMBUSTION AIR TO FURNACE
G		GAS
A		AIR
		COLD WATER (DOMESTIC)
		HOT WATER (DOMESTIC)
		HOT WATER RETURN (DOMESTIC)
ST		STORM
		WASTE (SANITARY)
		VENT (SANITARY)
		SUPPLY AIR DUCTWORK
ST		STORM ABOVE CEILING
		WASTE ABOVE CEILING (SANITARY)

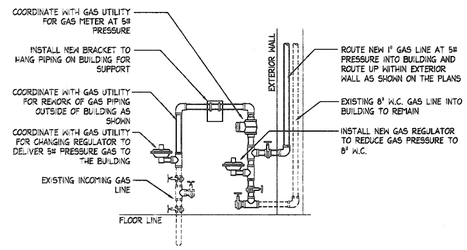


WATER HEATER DETAIL
SCALE: NTS

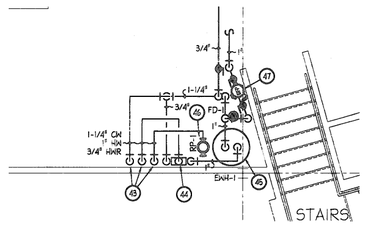


CATCH-BASIN DETAIL
SCALE: NTS

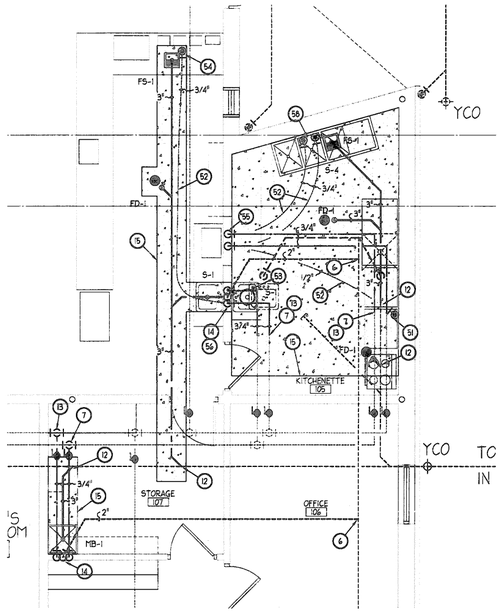
WALL CLEANOUT DETAIL
SCALE: NTS



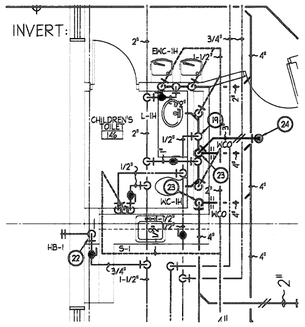
GAS METER DETAIL
SCALE: NTS



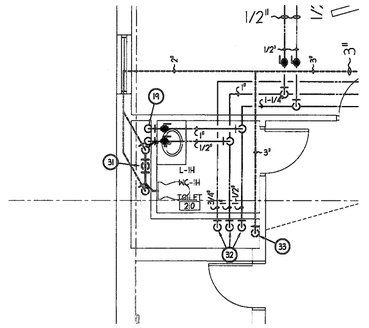
3 ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"
NORTH



4 ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"
NORTH



2 ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"
NORTH



1 ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"
NORTH

TYPICAL PLUMBING CONNECTION SIZES

ITEM	HOT	COLD	WASTE	VENT	NOTES
WC-1H	NA	1"	4"	2"	ALL FLUSHVALVE WATERCLOSETS
L-1H	1/2"	1/2"	1 1/2"	1 1/4"	ALL LAVATORIES
S-1, S-2, S-3, S-4, S-5	1/2"	1/2"	1 1/2"	1 1/4"	ALL SINKS
EHC-1H	NA	1/2"	1 1/2"	1 1/4"	ALL WATER COOLERS
HB-1, HB-2	NA	3/4"	NA	NA	ALL HOSE BIBBS
FD-1, FS-1	NA	NA	3"	NA	ALL FLOOR DRAINS AND FLOOR SINKS
NOTE: THESE ARE MINIMUM SIZES UNLESS NOTED OTHERWISE					

PLUMBING REMODEL NOTES (NOT ALL NOTES ARE USED ON THIS SHEET)

1. INSTALL NEW FIRE DEPARTMENT CONNECTION ON THIS NEW WALL AND CONNECT TO EXISTING FIRE RISER PER NFPA CODES.
2. ROUTE NEW FIRE ZONE PIPE DOWN INTO RISER ROOM AND CONNECT TO FIRE RISER. INSTALL NEW FLOW SWITCH, ISOLATION VALVE WITH TAMPER SWITCH & MAIN DRAIN FOR THIS ZONE. SEE SPECIFICATIONS.
3. CONNECT NEW 3/4" DOMESTIC LINE TO THIS EXISTING LINE FOR THE NEW HB-1.
4. ROUTE 3/4" DOMESTIC LINE INTO THE CHASE AND INSTALL NEW HOSE BIBB (HB-1) IN THE NEW EXTERIOR WALL.
5. ROUTE NEW 2" DOMESTIC LINE DOWN AND CONNECT TO INCOMING 4" DOMESTIC WATER LINE. THIS NEW 2" LINE SHALL SERVE THE NEW ADDITION.
6. CONNECT NEW SANITARY VENT LINE INTO EXISTING AT THIS LOCATION AND ROUTE AS SHOWN.
7. CONNECT NEW DOMESTIC HOT WATER LINE INTO EXISTING AT THIS LOCATION AND ROUTE AS SHOWN.
8. CONNECT NEW DOMESTIC HOT AND COLD WATER LINES INTO EXISTING AT THIS LOCATION AND ROUTE AS SHOWN.
9. ROUTE NEW HOT AND COLD WATER DOMESTIC LINES DOWN WITHIN ENCLOSURE AND ROUTE LINES WITHIN CABINET AND CONNECT TO RELOCATED SINK. RECONNECT WASTE LINE TO SINK AS REQUIRED.
10. CUT AND PATCH EXISTING WALL TO ROUTE NEW GAS LINE FROM EXTERIOR TO ABOVE THE CEILING. THIS CONTRACTOR SHALL COORDINATE WITH G.C. FOR REMOVAL OF THE CEILING TO ROUTE THE GAS PIPING.
11. PIN #4 REBAR AT 20' O.C. IN EXISTING SLAB AND POUR NEW 3500 PSI CONCRETE SLAB FLUSH WITH EXISTING AFTER DEMOLITION OF BELOW SLAB WASTE LINES.
12. CONNECT NEW SANITARY WASTE LINE INTO EXISTING AT THIS LOCATION AND ROUTE AS SHOWN.
13. CONNECT NEW DOMESTIC COLD WATER LINE INTO EXISTING AT THIS LOCATION AND ROUTE AS SHOWN.
14. ROUTE NEW HOT AND COLD DOMESTIC WATER LINE DOWN WITHIN EXISTING WALL AND CONNECT TO NEW PLUMBING FIXTURE. ROUTE VENT UP WALL AND CONNECT AS SHOWN.
15. PIN #4 REBAR AT 20' O.C. IN EXISTING SLAB AND POUR NEW 3500 PSI CONCRETE SLAB FLUSH WITH EXISTING AFTER NEW SANITARY WASTE LINES ARE INSTALLED.
16. CONNECT NEW STORM LINE INTO EXISTING AND ROUTE AS SHOWN.
17. ROUTE NEW HOT AND COLD DOMESTIC WATER LINE DOWN WITHIN NEW WALL AND CONNECT TO NEW PLUMBING FIXTURE. ROUTE VENT UP WALL AND CONNECT AS SHOWN.
18. ROUTE NEW 2" DOMESTIC WATER LINE AND NEW FIRE ZONE PIPE ABOVE THE CEILINGS IN THIS AREA TO THE NEW BUILDING ADDITION.
19. ROUTE WASTE, WATER AND VENT FULL SIZE IN CHASE/WALL AND CONNECT TO INDIVIDUAL PLUMBING FIXTURES PER FIXTURE CONNECTION SCHEDULE. TYPICAL.
20. ROUTE NEW 4" VENT THROUGH ROOF AT THIS LOCATION.
21. FIRE PROTECTION CONTRACTOR SHALL DESIGN AND INSTALL FIRE PROTECTION SYSTEM FOR NEW BUILDING ADDITION PER SPECIFICATIONS.
22. ROUTE 3/4" COLD WATER LINE DOWN WITHIN COLUMN ENCLOSURE AND CONNECT TO EXTERIOR HOSE BIBB.
23. ROUTE SANITARY LINE DOWN WITHIN CHASE TO BELOW FLOOR AND ROUTE AS SHOWN. INSTALL WALL CLEANOUT AT 12" AFF AS SHOWN.
24. SANITARY WASTE LINE UP TO FLOOR ABOVE, SEE SHEET P1.2.
25. SANITARY WASTE LINE UP TO FLOOR ABOVE, SEE ENLARGED PLAN 1/P2.1.
26. SANITARY VENT LINE UP TO FLOOR ABOVE, SEE ENLARGED PLAN 1/P2.1.
27. DOMESTIC WATER LINES UP TO FLOOR ABOVE, SEE ENLARGED PLAN 1/P2.1.
28. SEE SITE UTILITY PLAN ON SHEET C2.0 FOR CONTINUATION OF NEW SANITARY WASTE LINE.
29. CONNECT NEW 1" GAS LINE (5# PRESSURE) INTO EXISTING GAS LINE AT THIS LOCATION. ROUTE AS SHOWN ABOVE THE CEILING. SEE DETAIL ON SHEET P2.1.
30. SEE MEZZANINE PLUMBING PLAN ON SHEET P1.2 FOR CONTINUATION OF NEW GAS LINE.
31. ROUTE WASTE LINE DOWN TO FLOOR BELOW., SEE SHEET P1.1
32. ROUTE DOMESTIC WATER LINES DOWN TO FLOOR BELOW, SEE SHEET P1.1.
33. ROUTE VENT LINE DOWN TO FLOOR BELOW, SEE SHEET P1.1.
34. SANITARY WASTE LINE FROM FLOOR DRAIN ON FLOOR ABOVE, SEE MEZZANINE PLAN ON THIS SHEET. ROUTE SANITARY LINE UP WITHIN JOISTS AS HIGH AS POSSIBLE. TYPICAL.
35. SANITARY WASTE LINE FROM FLOOR DRAIN ON FLOOR ABOVE, SEE ENLARGED PLAN 3/P2.1. ROUTE SANITARY LINE UP WITHIN JOISTS AS HIGH AS POSSIBLE. TYPICAL.
36. ROUTE WASTE LINE FROM ABOVE CEILING DOWN WITHIN WALL TO FLOOR BELOW, SEE ENLARGED PLAN 2/P2.1.
37. ROUTE COLD WATER DOMESTIC LINE DOWN WITHIN WALL AND CONNECT TO GALVANIZED GUY GRAY ICE MAKER BOX. LOCATE THIS BOX AT 18" AFF.
38. DOMESTIC WATER LINES UP TO FLOOR ABOVE, SEE ENLARGED PLAN 3/P2.1.
39. COORDINATE WITH MECHANICAL PLANS FOR EXACT PLACEMENT OF FLOOR DRAINS IN MECHANICAL ROOMS.
40. SEE MECHANICAL PLAN ON SHEET M1.2 FOR CONTINUATION OF GAS PIPING INTO BOILER ROOM. THIS CONTRACTOR SHALL ROUTE GAS LINE INTO BOILER ROOM, WHERE MECHANICAL CONTRACTOR WILL CONTINUE.
41. SEE FIRST FLOOR PLUMBING PLAN ON SHEET P1.1 FOR CONTINUATION OF GAS PIPING.
42. ROUTE DOMESTIC COLD WATER PIPING DOWN ALONG WALL AND CONNECT TO EXTERIOR HOSE BIBB FOR CLEANING MECHANICAL UNITS ON THE ROOF.
43. ROUTE DOMESTIC WATER LINES DOWN TO FLOOR BELOW, SEE SHEET P1.2.
44. INSTALL TEMPERATURE MIXING VALVE EQUAL TO LAWLER 61-25, WITH CHECK STOPS. PIPE PER DETAIL ON SHEET P2.1.
45. ELECTRIC WATER HEATER (EWH-1) SHALL BE EQUAL TO LOCHINVAR MODEL ET.105ZRK, 208V/60, 50 GALLON CAPACITY STORAGE, 4.5 KW INPUT, 20 GPH RECOVERY AT 90 DEG F RISE, SET UNIT AT 140 DEG STORAGE TEMPERATURE. ROUTE RELIEF DRAIN TO FLOOR DRAIN.
46. INSTALL HOT WATER RETURN PUMP (RP-1) EQUAL TO BELL & GOSSETT, PR-AB, ALL BRONZE PUMP, 115/1/60, 10 GPM @ 16 FEET HEAD PRESSURE. PROVIDE UNIONS AND BALL VALVES ON PUMP INLET AND OUTLET.
47. ROUTE 1" DOMESTIC COLD WATER TAP AT THIS LOCATION AND PROVIDE BACKFLOW PREVENTER FOR M.C. TO CONNECT TO HYDRONIC FILL SYSTEM. INSTALL BFP ALONG ADJACENT WALL AT 48" MAX AFF. ROUTE RECEPTOR CUP FROM BFP TO FLOOR DRAIN.
48. INSTALL NEW CATCH BASIN IN THIS LOADING DOCK AREA. SEE DETAIL ON SHEET P2.1. THIS CONTRACTOR TO COORDINATE SLAB GRADING WITH G.C. FOR RIM ELEVATION. OUTLET OF CATCH BASIN IS 24" BELOW FINISHED FLOOR MINIMUM.
49. ROUTE WASTE LINE DOWN WITHIN CHASE/WALL TO BELOW FLOOR AND ROUTE AS SHOWN.
50. ROUTE STORM LINE UP FROM BELOW GRADE INTO COLUMN ENCLOSURE AND UP TO FLOOR ABOVE. SEE SHEET P1.2. PROVIDE WALL CLEANOUT AT 12" AFF.
51. STUB 1/2" CH LINE UP ABOVE SLAB AT THIS LOCATION AND PROVIDE INLINE STOP AND ESCUTCHEON FOR OWNER TO CONNECT TO ICE MAKER THROUGH FILTERS PROVIDED BY OWNER.
52. ALL UNDERGROUND DOMESTIC WATER SUPPLY LINES SHALL BE PRE-INSULATED TYPE K SOFT COPPER, SEE SPECIFICATIONS. THERE SHALL BE NO JOINTS BELOW THE SLAB.
53. PROVIDE AND INSTALL GARBAGE DISPOSAL UNIT EQUAL TO IN-SINKERATOR MODEL #SS555S, 120V/60, 3/4 HP, ALL STAINLESS STEEL GRINDER ELEMENTS AND GRINDING CHAMBER.
54. STUB 3/4" CH LINE UP ABOVE SLAB AT THIS LOCATION AND PROVIDE INLINE STOP AND ESCUTCHEON FOR OWNER TO CONNECT TO ESPRESSO MACHINE AND COFFEE BREWERS THROUGH FILTERS PROVIDED BY OWNER.
55. ROUTE 3/4" HW AND CH LINES DOWN WITHIN WALL TO BELOW SLAB AND ROUTE LINES BELOW SLAB TO 3-POT SINK AND TO ICE MACHINE LOCATION AS SHOWN.
56. ROUTE 3/4" CH LINE FROM THIS LOCATION WITHIN THE NEW TRENCH TO THE EXPRESSO MACHINE LOCATION.
57. ROUTE VENT LINE UP TO FLOOR ABOVE. SEE SHEET P1.2.
58. STUB 3/4" HW AND CH LINE UP ABOVE SLAB AT THIS LOCATION AND PROVIDE INLINE STOP AND ESCUTCHEONS AND CONNECT TO FAUCETS ON 3-POT SINK.
59. SEE SITE UTILITY PLAN ON SHEET C2.0 FOR CONTINUATION OF NEW STORM LINE.
60. ROUTE STORM LINE ABOVE CEILING OVER TO CHASE AND DOWN WITHIN CHASE TO BELOW FLOOR AND CONTINUE.
61. THIS CONTRACTOR SHALL CONNECT NEW 4" STORM LINE INTO EXISTING 8" STORM LINE AT THIS LOCATION.
62. ROUTE STORM LINE UP TO ABOVE GRADE AND PROVIDE BOOT TO CONNECT INTO DOWNSPOUT LINES. PROVIDE SLEEVES IN FOUNDATION WALL BELOW GRADE.
63. CONNECT STORM LINES TO ROOF DRAINS. COORDINATE LOCATIONS WITH ROOF PLAN. ROUTE ALL STORM PIPING UP WITHIN JOISTS AND ROUTE AS SHOWN. TYPICAL.
64. ROUTE STORM PIPING DOWN WITHIN COLUMN ENCLOSURE TO FLOOR BELOW. SEE SHEET P1.1.
65. ROUTE VENT LINE DOWN WITHIN COLUMN ENCLOSURE TO FLOOR BELOW. SEE SHEET P1.1.

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CERTIFICATION

TERRANCE J. WAGNER REGISTERED No. 20707 STATE OF INDIANA PROFESSIONAL ENGINEER

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TITLE: Enlarged Plumbing Plans and Details

SHEET: P2.1