

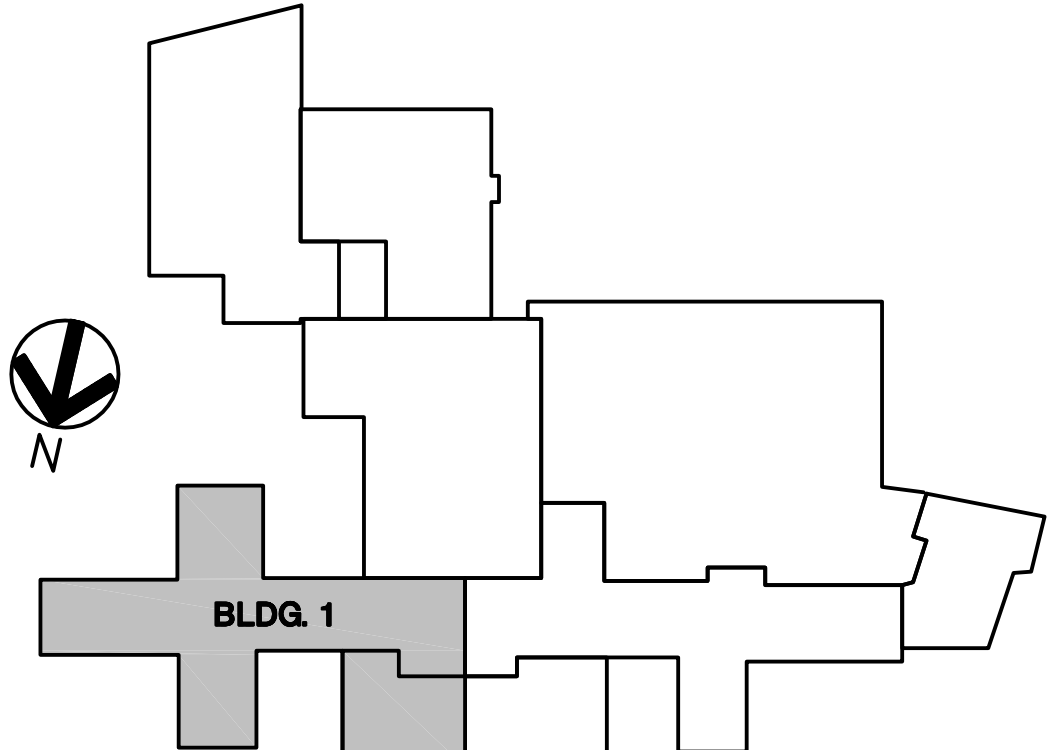
GENERAL PLUMBING DEMOLITION NOTES:

1. ASBESTOS TESTING HAS BEEN PERFORMED THROUGHOUT THE PROJECT AREA AND IT HAS BEEN DETERMINED NO ASBESTOS IS PRESENT. IN THE EVENT THAT ASBESTOS OR OTHER SUSPECT MATERIAL IS FOUND IN THE COURSE OF WORKING, CONTRACTOR IS TO SUSPEND WORK IN THAT AREA AND CONTACT THE OWNER.
2. DISCONNECT AND REMOVE ALL PREVIOUSLY ABANDONED PIPING. REMOVE EXISTING/ABANDONED HANGERS AND SUPPORTS IF DEEMED NOT REUSABLE.
3. ALL PIPING SHOWN IS BASED ON ORIGINAL DRAWINGS AND FIELD VERIFICATION OF MAINS. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE ROUTE AND TO VERIFY ALL EXISTING CONDITIONS OF BRANCH PIPING TO INDIVIDUAL AND GANG-FIXTURE LOCATIONS. ALL DEMOLISHED PIPING SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
4. ALL PIPING ASSOCIATED WITH EXISTING SYSTEMS TO BE REMOVED SHALL BE DEMOLISHED. NO PIPING SHALL BE ABANDONED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING PIPING SYSTEMS TO BE CUT, CAPPED, OR REMOVED. DISCHARGE FROM SUCH SYSTEMS SHALL BE APPROPRIATELY DISPOSED PER FEDERAL, STATE AND LOCAL REQUIREMENTS.
6. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ANY EQUIPMENT THE MAINTENANCE DEPARTMENT MAY WISH TO RETAIN AFTER REMOVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL REMOVED AND/OR DEMOLISHED EQUIPMENT THE OWNER CHOOSES NOT TO RETAIN.
7. ALL PLUMBING FIXTURES AND/OR ARCHITECTURAL FEATURES TEMPORARILY REMOVED DURING DEMOLITION FOR ACCESS TO DEMO AND/OR NEW WORK AND FUTURE RECONNECTION/REINSTALLATION, SHALL BE REINSTALLED UNDER WORK REQUIRED ON THESE DRAWINGS. ALL COMPONENTS SHALL BE REINSTALLED AND FINISHED TO ORIGINAL CONDITION OR REPLACED WITH NEW UNDER THIS CONTRACT.
8. COORDINATE WITH GENERAL CONTRACTOR FOR FLOOR, WALL AND ROOF PATCHING REQUIRED DUE TO PENETRATIONS RESULTING FROM DEMOLITION OF EXISTING AND INSTALLATION OF NEW MECHANICAL EQUIPMENT AND COMPONENTS.
9. REFER TO SPECIFICATIONS FOR UTILITY TIE-IN AND DISRUPTION REQUIREMENTS.
10. (48) FORTY-EIGHT HOUR WRITTEN NOTICE SHALL BE GIVEN TO THE OWNER PRIOR TO DISRUPTION OF UTILITIES OR SERVICES TO OR WITHIN THE BUILDING, SUBJECT TO THE OWNER'S APPROVAL. SEE SPECIFICATION SECTION 01 00 00 GENERAL REQUIREMENTS.

PLUMBING DEMOLITION KEYED NOTES:

1. REMOVE EXISTING COMPRESSED AIR OUTLET AND ASSOCIATED PIPING.
2. RELOCATE EXISTING AIR COMPRESSOR AND DRYER AS SHOWN ON NEW WORK PLAN.
3. REMOVE EXISTING WC. PIPING TO REMAIN FOR CONNECTION TO NEW FIXTURE.
4. REMOVE EXISTING UR AND CAP ASSOCIATED PIPING.
5. REMOVE EXISTING LAV. PIPING TO REMAIN FOR CONNECTION TO NEW FIXTURE.
6. REMOVE EXISTING MA, VAC AND OX OUTLETS AND ASSOCIATED PIPING.
7. REMOVE EXISTING MED GAS VALVE BOX.
8. REMOVE EXISTING MA OUTLET AND ASSOCIATED PIPING.
9. REMOVE EXISTING SINK AND ASSOCIATED UTILITIES. CAP WASTE BELOW FLOOR. CAP VENT, CW AND HW AS SHOWN.
10. REMOVE EXISTING FLOOR DRAIN AND ASSOCIATED UTILITIES. CAP WASTE BELOW FLOOR. CAP VENT AS SHOWN.
11. REMOVE EXISTING CW AND HW, CAP AS SHOWN.
12. REMOVE EXISTING WASTE AND CW SERVING EQUIPMENT. CAP WASTE AT MAIN RISER AND CAP CW AS SHOWN.
13. REMOVE EXISTING SINK, ELECTRIC WATER COOLER AND ASSOCIATED UTILITIES. CAP WASTE BELOW FLOOR. CAP VENT, CW AND HW AS SHOWN.
14. REMOVE EXISTING CW, HW AND HWC.
15. REMOVE EXISTING MASTER MED GAS ALARM PANEL AND ASSOCIATED SENSORS AND PIPING. PANEL AND SENSORS SHALL NOT BE REMOVED UNT NEW MASTER ALARM PANEL AND SENSORS ARE INSTALLED AND OPERATIONAL.
16. REMOVE EXISTING CW AND CAP.
17. REMOVE EXISTING ABANDONED VENT, CW AND HW IN WALL. CAP AS SHOWN.
18. REMOVE EXISTING VENT AND CAP.
19. REMOVE EXISTING VAC, OX AND MA, VALVE AND CAP.

RECERTIFICATION OF (E) VAC, OX AND MA SHALL BE PROVIDED PER NFPA 99 REQUIREMENTS.



1-B

Veterans Administration

Date: 12-17-2012
CONSTRUCTION DOCUMENTS

Project No.
DVA#636-311
S-H#110240-0

DRAWING NO.
1-B-PD1

Dwg. 1 of 15

Project Title
RENOVATE AND EXPAND SPACE FOR PATIENT SUPPORT AREAS

Building Number
1

Location
IOWA CITY VA HEALTH CARE SYSTEM
IOWA CITY, IOWA

Drawing Title
BASEMENT PLUMBING DEMOLITION PLAN

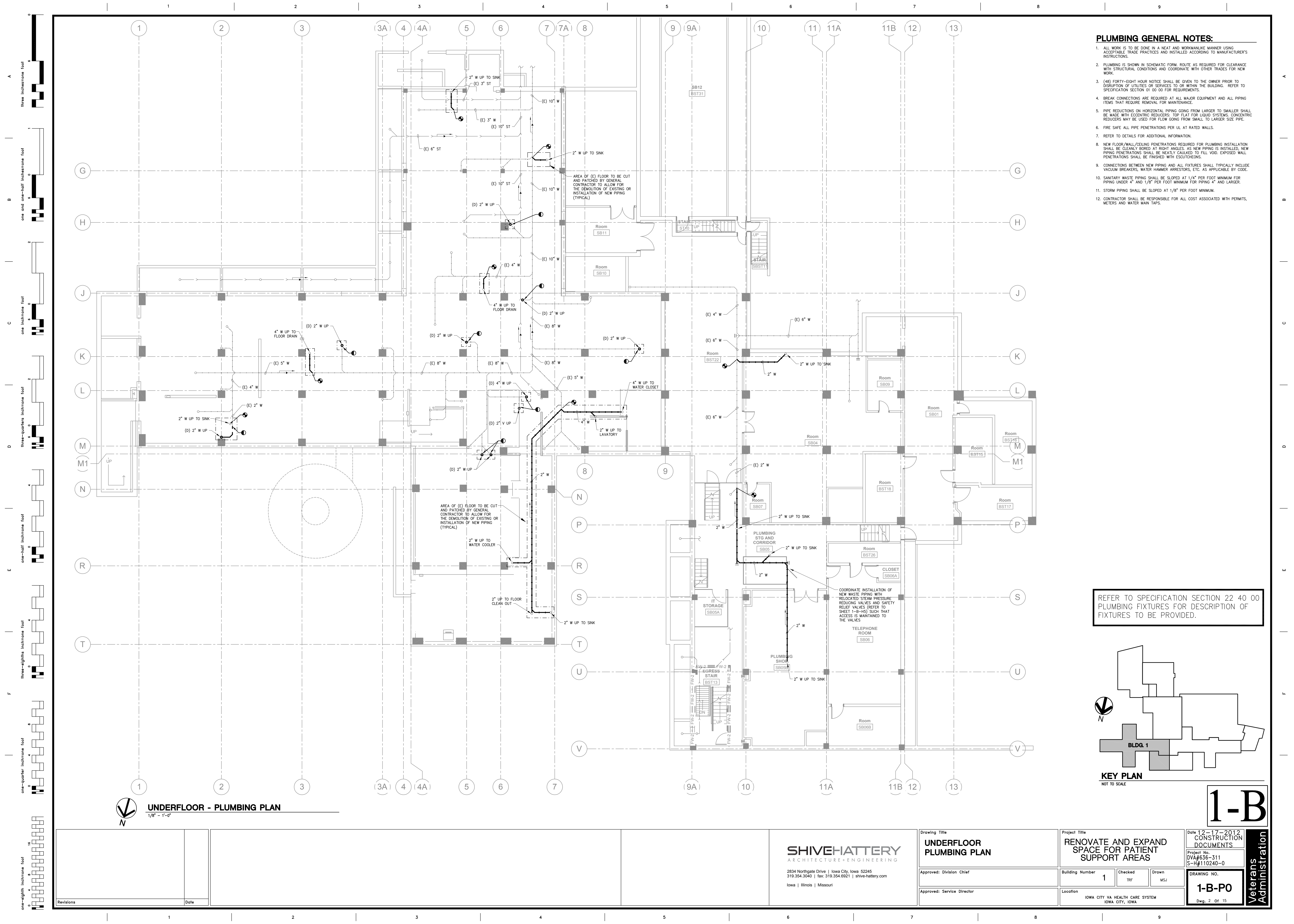
Approved: Division Chief

Approved: Service Director

SHIVEHATTERY
ARCHITECTURE+ENGINEERING

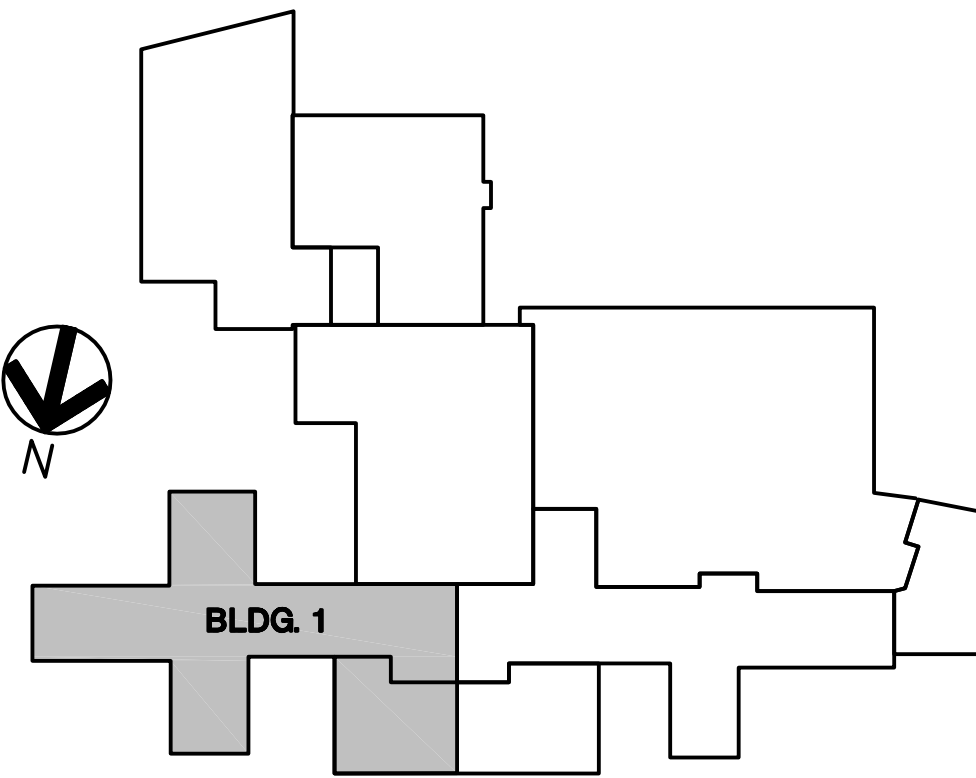
2834 Northgate Drive | Iowa City, Iowa 52245
319.354.3040 | fax: 319.354.6921 | shive-hattery.com
Iowa | Illinois | Missouri

Revisions	Date



- PLUMBING GENERAL NOTES:**
1. ALL WORK IS TO BE DONE IN A NEAT AND WORKMANLIKE MANNER USING ACCEPTABLE TRADE PRACTICES AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 2. PLUMBING IS SHOWN IN SCHEMATIC FORM. ROUTE AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS AND COORDINATE WITH OTHER TRADES FOR NEW WORK.
 3. (48) FORTY-EIGHT HOUR NOTICE SHALL BE GIVEN TO THE OWNER PRIOR TO DISRUPTION OF UTILITIES OR SERVICES TO OR WITHIN THE BUILDING. REFER TO SPECIFICATION SECTION 01 00 00 FOR REQUIREMENTS.
 4. BREAK CONNECTIONS ARE REQUIRED AT ALL MAJOR EQUIPMENT AND ALL PIPING ITEMS THAT REQUIRE REMOVAL FOR MAINTENANCE.
 5. PIPE REDUCTIONS ON HORIZONTAL PIPING GOING FROM LARGER TO SMALLER SHALL BE MADE WITH ECCENTRIC REDUCERS. TOP FLAT FOR LIQUID SYSTEMS. CONCENTRIC REDUCERS MAY BE USED FOR FLOW GOING FROM SMALL TO LARGER SIZE PIPE.
 6. FIRE SAFE ALL PIPE PENETRATIONS PER UL AT RATED WALLS.
 7. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
 8. NEW FLOOR/WALL/CEILING PENETRATIONS REQUIRED FOR PLUMBING INSTALLATION SHALL BE CLEANLY BORED AT RIGHT ANGLES. AS NEW PIPING IS INSTALLED, NEW PIPING PENETRATIONS SHALL BE NEATLY CAULKED TO FILL VOID. EXPOSED WALL PENETRATIONS SHALL BE FINISHED WITH ESCUTCHEONS.
 9. CONNECTIONS BETWEEN NEW PIPING AND ALL FIXTURES SHALL TYPICALLY INCLUDE VACUUM BREAKERS, WATER HAMMER ARRESTORS, ETC. AS APPLICABLE BY CODE.
 10. SANITARY WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM FOR PIPING UNDER 4" AND 1/8" PER FOOT MINIMUM FOR PIPING 4" AND LARGER.
 11. STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH PERMITS, METERS AND WATER MAIN TAPS.

REFER TO SPECIFICATION SECTION 22 40 00
PLUMBING FIXTURES FOR DESCRIPTION OF
FIXTURES TO BE PROVIDED.



KEY PLAN
NOT TO SCALE

1-B

**Veterans
Administration**

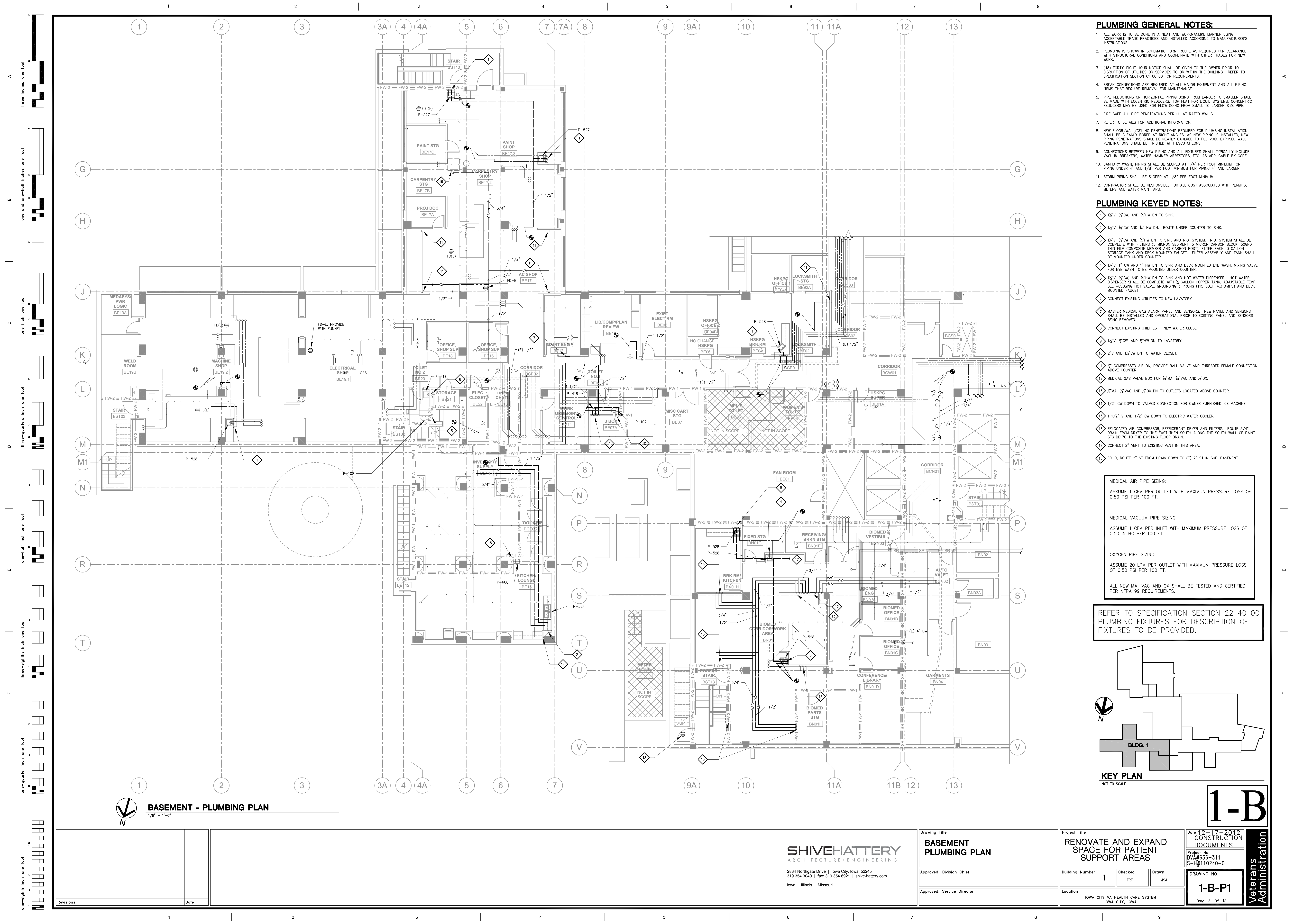
Date: 12-17-2012
CONSTRUCTION
DOCUMENTS
Project No.
DVA#636-311
S-H#110240-0
DRAWING NO.
1-B-P0
Dwg. 2 of 15

Project Title
**RENOVATE AND EXPAND
SPACE FOR PATIENT
SUPPORT AREAS**
Building Number
1
Checked
TRF
Drawn
MSJ
Location
IOWA CITY VA HEALTH CARE SYSTEM
IOWA CITY, IOWA

Drawing Title
**UNDERFLOOR
PLUMBING PLAN**
Approved: Division Chief
Approved: Service Director

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- 6. FIRE SAFE ALL PIPE PENETRATIONS PER UL AT RATED WALLS.
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- 8. NEW FLOOR/WALL/CEILING PENETRATIONS REQUIRED FOR PLUMBING INSTALLATION SHALL BE CLEANLY BORED AT RIGHT ANGLES. AS NEW PIPING IS INSTALLED, NEW PIPING PENETRATIONS SHALL BE NEATLY CAULKED TO FULL VOID. EXPOSED WALL PENETRATIONS SHALL BE FINISHED WITH ESUTCHEONS.
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- 11. STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH PERMITS, METERS AND WATER MAIN TAPS.

PLUMBING KEYED NOTES:

- 1. 1/2" V, 3/4" CW, AND 3/4" HW DN TO SINK.
- 2. 1/2" V, 3/4" CW AND 3/4" HW DN. ROUTE UNDER COUNTER TO SINK.
- 3. 1/2" V, 3/4" CW AND 3/4" HW DN TO SINK AND R.O. SYSTEM. R.O. SYSTEM SHALL BE COMPLETE WITH FILTERS (5 MICRON SEDIMENT, 5 MICRON CARBON BLOCK, 50GPD 1/2" FILM COMPOSITE MEMBRANE AND CARBON POST), FILTER RACK, 3 GALLON STORAGE TANK AND DECK MOUNTED FAUCET. FILTER ASSEMBLY AND TANK SHALL BE MOUNTED UNDER COUNTER.
- 4. 1/2" V, 1" CW AND 1" HW DN TO SINK AND DECK MOUNTED EYE WASH. MIXING VALVE FOR EYE WASH TO BE MOUNTED UNDER COUNTER.
- 5. 1/2" V, 3/4" CW, AND 3/4" HW DN TO SINK AND HOT WATER DISPENSER. HOT WATER DISPENSER SHALL BE COMPLETE WITH 1/2 GALLON COPPER TANK, ADJUSTABLE TEMP. SELF-CLOSING HOT VALVE, GROUNDING 3 PRONG (115 VOLT, 4.3 AMPS) AND DECK MOUNTED FAUCET.
- 6. CONNECT EXISTING UTILITIES TO NEW LAVATORY.
- 7. MASTER MEDICAL GAS ALARM PANEL AND SENSORS. NEW PANEL AND SENSORS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO EXISTING PANEL AND SENSORS BEING REMOVED.
- 8. CONNECT EXISTING UTILITIES TO NEW WATER CLOSET.
- 9. 1/2" V, 3/4" CW, AND 3/4" HW DN TO LAVATORY.
- 10. 2" V AND 1 1/2" CW DN TO WATER CLOSET.
- 11. 1" COMPRESSED AIR DN, PROVIDE BALL VALVE AND THREADED FEMALE CONNECTION ABOVE COUNTER.
- 12. MEDICAL GAS VALVE BOX FOR 3/4" MA, 3/4" VAC AND 1/2" OX.
- 13. 1/2" MA, 3/4" VAC AND 1/2" OX DN TO OUTLETS LOCATED ABOVE COUNTER.
- 14. 1/2" CW DOWN TO VALVED CONNECTION FOR OWNER PROVIDED ICE MACHINE.
- 15. 1 1/2" V AND 1 1/2" CW DOWN TO ELECTRIC WATER COOLER.
- 16. RELOCATED AIR COMPRESSOR, REFRIGERANT DRYER AND FILTERS. ROUTE 3/4" DRAIN FROM DRYER TO THE EAST THEN SOUTH ALONG THE SOUTH WALL OF PAINT STG BE17C TO THE EXISTING FLOOR DRAIN.
- 17. CONNECT 2" VENT TO EXISTING VENT IN THIS AREA.
- 18. FD-D, ROUTE 2" ST FROM DRAIN DOWN TO (E) 2" ST IN SUB-BASEMENT.

MEDICAL AIR PIPE SIZING:

ASSUME 1 CFM PER OUTLET WITH MAXIMUM PRESSURE LOSS OF 0.50 PSI PER 100 FT.

MEDICAL VACUUM PIPE SIZING:

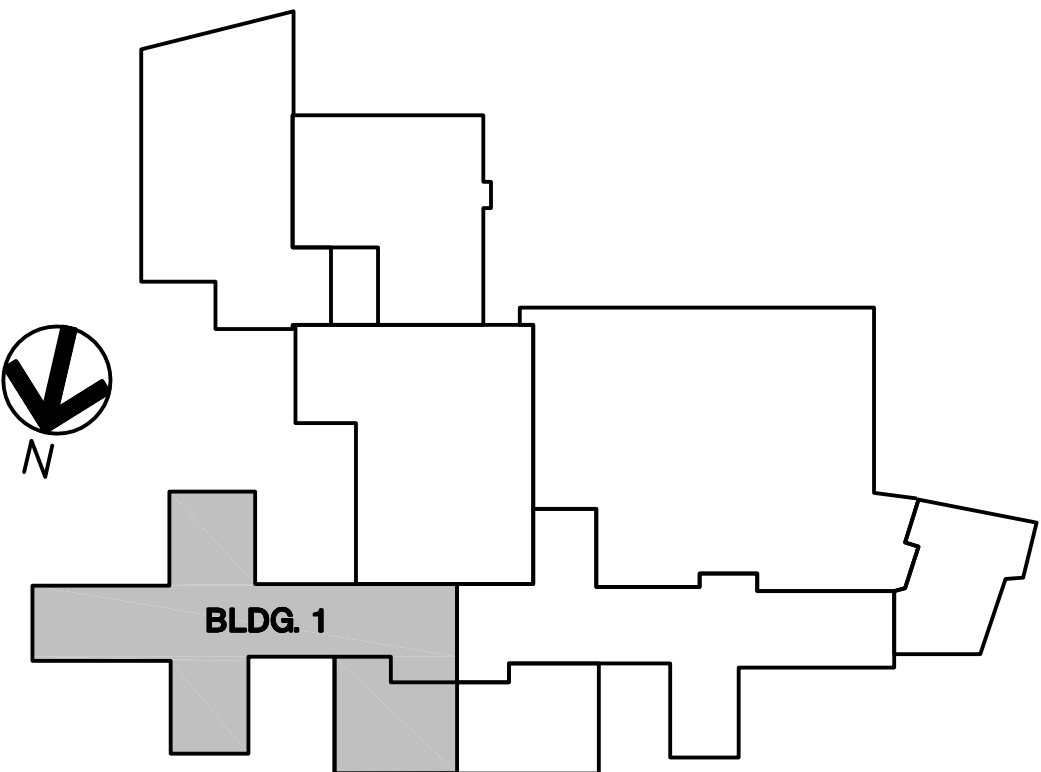
ASSUME 1 CFM PER INLET WITH MAXIMUM PRESSURE LOSS OF 0.50 IN HG PER 100 FT.

OXYGEN PIPE SIZING:

ASSUME 20 LPM PER OUTLET WITH MAXIMUM PRESSURE LOSS OF 0.50 PSI PER 100 FT.

ALL NEW MA, VAC AND OX SHALL BE TESTED AND CERTIFIED PER NFPA 99 REQUIREMENTS.

REFER TO SPECIFICATION SECTION 22 40 00 PLUMBING FIXTURES FOR DESCRIPTION OF FIXTURES TO BE PROVIDED.



KEY PLAN
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Date: 12-17-2012
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Project No.
DVA#636-311
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DRAWING NO.

1-B-P1
Dwg. 3 of 15

Project Title
RENOVATE AND EXPAND
SPACE FOR PATIENT
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Building Number

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IOWA CITY VA HEALTH CARE SYSTEM
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Approved: Division Chief

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