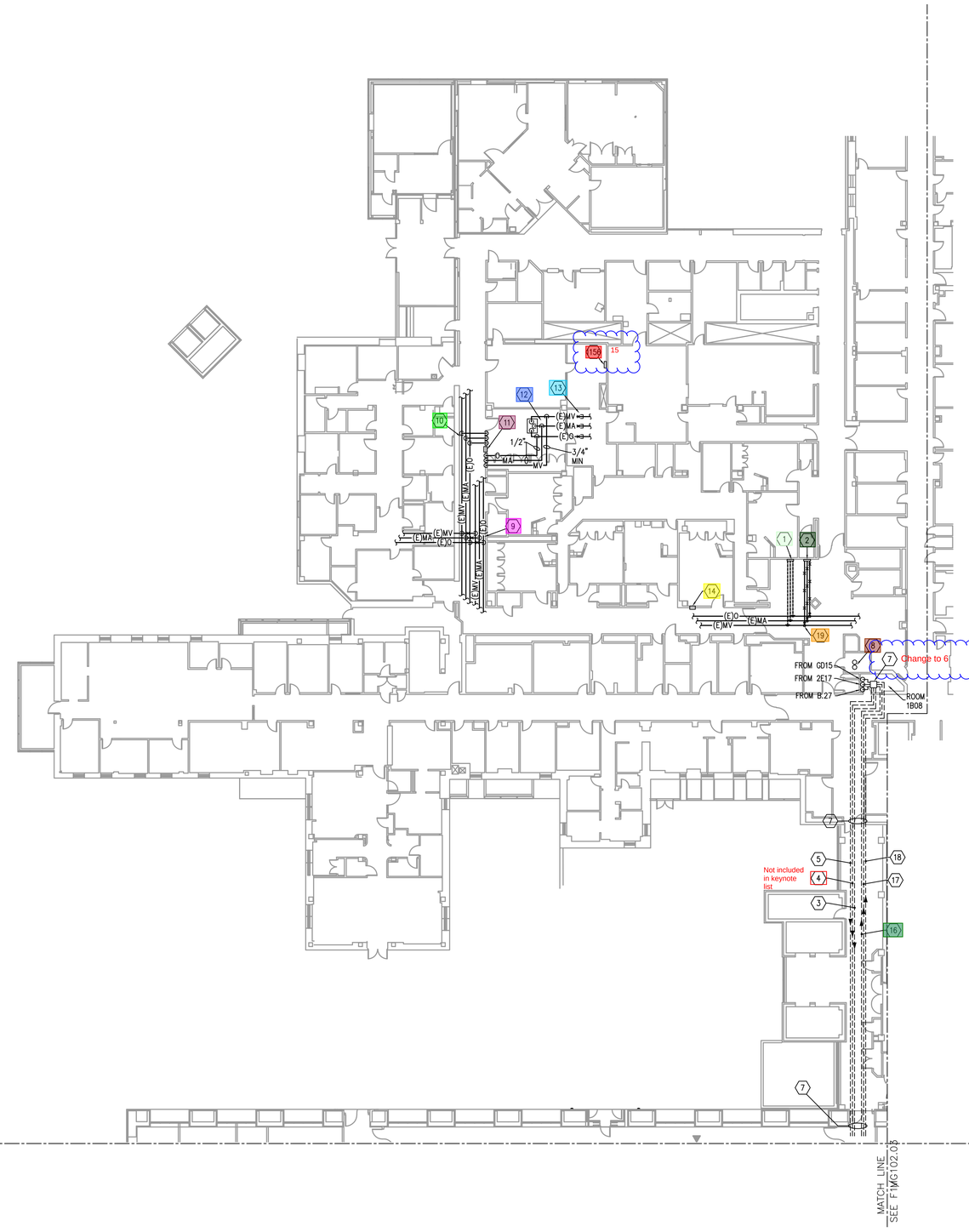

F1 FIRST LEVEL – BUILDING 1
1/16"=1'-0"

PROJECT TRUE NORTH

0 8" 16" 32"

KEYNOTES

1. EXISTING MEDICAL GAS AREA ALARM PANEL IN THE RECEPTION AREA: OXYGEN, MEDICAL AIR, AND MEDICAL VACUUM ALARMS.
2. REMOVE THE ABANDONED OHMEDA ALARM PANEL. PATCH AND REPAIR THE WALL.
3. RUN FOURTEEN PAIRS (INCLUDES THREE SPARE PAIR) OF NEW 18-GUAGE SHIELDED TWISTED-PAIR WIRES FROM THE NORMALLY-CLOSED CONTACTS OF EACH ALARM INITIATING DEVICE IN THE BUILDING B.1 BASEMENT MECHANICAL ROOMS TO THE BUILDING B.14 EMERGENCY DEPARTMENT MASTER ALARM PANEL. THE ROUTING SHOWN HAS BEEN EXAMINED BY THE DESIGNER. THE CONTRACTOR IS TO FIELD-VERIFY THE SITE CONDITIONS FOR THE CONDUIT ROUTING. FOLLOW NEC REQUIREMENTS FOR CORRECT CONDUIT SIZING FOR WIRE CABLE SIZE PROVIDED BY THE CONTRACTOR SEE SHEET MG112 FOR CONTINUATION. IT WILL MONITOR:
   - B.1 OXYGEN PRESSURE HIGH
   - B.1 OXYGEN PRESSURE LOW
   - B.1 MEDICAL AIR PRESSURE HIGH
   - B.1 MEDICAL AIR PRESSURE LOW
   - B.1 MEDICAL AIR DEWPOINT HIGH
   - B.1 MEDICAL AIR CARBON MONOXIDE ALARM
   - B.1 MEDICAL AIR MAIN BANK FILTER SET ALARM
   - B.1 MEDICAL VACUUM PRESSURE LOW
   - B.1 MEDICAL VACUUM OIL FILTER DIFFERENTIAL ALARM
   - B.1 MEDICAL VACUUM FAULT/ALARM
4. RUN FOUR 18-GUAGE SHIELDED TWISTED-PAIR WIRES FROM THE NEW J-BOX IN BUILDING BUILDING B.27 TO THE NEW BUILDING B.14 EMERGENCY DEPARTMENT MASTER ALARM PANEL AT THE NURSES STATION IN B.14 FOR EACH ALARM SIGNAL. THE WIRING IS TO RUN IN CONDUIT BETWEEN BUILDING B.27 AND BUILDING B.14. THE ROUTING SHOWN HAS BEEN EXAMINED BY THE DESIGNER. THE CONTRACTOR IS TO FIELD-VERIFY THE SITE CONDITIONS FOR THE CONDUIT ROUTING. FOLLOW NEC REQUIREMENTS FOR CORRECT CONDUIT SIZING FOR WIRE CABLE SIZE PROVIDED BY THE CONTRACTOR THE POINTS MONITORED ARE:
   - B.27 OXYGEN LEVEL LOW
   - B.27 OXYGEN RESERVE IN USE
   - B.27 OXYGEN RESERVE LEVEL LOW
   - B.27 OXYGEN RESERVE PRESSURE LOW
5. RUN THREE PAIRS OF NEW 18-GUAGE SHIELDED TWISTED-PAIR WIRES FROM THE NORMALLY-CLOSED CONTACTS OF EACH ALARM INITIATING DEVICE IN THE BUILDING B.1 NITROGEN MANIFOLD ROOM #2E17 TO THE BUILDING B.14 EMERGENCY DEPARTMENT MASTER ALARM PANEL. THE CONDUIT DROPS THROUGH THE PIPE CHASE. THE ROUTING SHOWN HAS BEEN EXAMINED BY THE DESIGNER. THE CONTRACTOR IS TO FIELD-VERIFY THE SITE CONDITIONS FOR THE CONDUIT ROUTING. FOLLOW NEC REQUIREMENTS FOR CORRECT CONDUIT SIZING FOR WIRE CABLE SIZE PROVIDED BY THE CONTRACTOR SEE "NOTE 9" BELOW FOR THE POINTS LIST. SEE SHEET MG101 FOR CONTINUATION. THE POINTS MONITORED ARE:
   - B.1 NITROGEN PRESSURE HIGH
   - B.1 NITROGEN PRESSURE LOW
   - B.1 NITROGEN RESERVE IN USE
6. CONDUIT FROM BELOW LOCATE NEW 24"x24"x6" JUNCTION BOX IN ELECTRICAL ROOM GB04. FIELD VERIFY EXACT LOCATION. UNDER THIS PROJECT PROVIDE TWO 40 PAIR DRY CONTACT STRIPS FOR TERMINATION OF WIRING.
7. CORE DRILL CONCRETE WALL ABOVE CORRIDOR. WALL THICKNESS IS 30 INCHES. FIELD VERIFY EXACT LOCATION OF CORE AND RECEIVE APPROVAL FORM VAMC RESIDENT ENGINEER.
8. REMOVE ABANDONED MA AND MV MEDICAL GAS PIPING FROM ROOM 1B06E MECHANICAL FROM LEVEL 1 TO LEVEL 6, TYPICAL.
9. EXISTING MEDICAL GAS PIPING TO WOMEN'S CLINIC TO BE DISCONNECTED FROM THE ZONE PIPING AND RECONNECTED TO THE EXISTING MEDICAL GAS MAIN PIPING IN CORRIDOR. CAP BRANCH TAKE OFF. FIELD VERIFY EXACT LOCATION AND ARRANGEMENT. COORDINATE SHUT DOWN OF GASES WITH VAMC RESIDENT ENGINEER.
10. CONNECT NEW BRANCH LINES TO EXISTING MAIN MEDICAL GAS PIPING. COORDINATE SHUT DOWN WITH VAMC RESIDENT ENGINEER.
11. PROVIDE NEW ZONE VALVE BOX IN WALL. SEE ARCHITECTURAL FOR WALL REPAIR.
12. CONNECT NEW BRANCH LINE MEDICAL GASES FROM NEW ZONE VALVE BOX TO EXISTING BRANCH LINES. FIELD VERIFY EXACT LOCATION.
13. CAP EXISTING MEDICAL GAS BRANCH LINES AT MAIN. FIELD VERIFY EXACT LOCATION.
14. EXISTING ZONE VALVE BOX. (Information Only)
15. EXISTING ZONE ALARM PANEL. (Information Only)
16. RUN FOUR PAIR OF NEW 18 GAUGE SHIELDED TWISTED PAIR WIRES FROM THE NORMALLY-CLOSED CONTACTS OF EACH ALARM INITIATING DEVICE IN BUILDING B.51 SPECIALTY CLINICS TO THE JUNCTION BOX IN 1B08. POINTS LIST ONE:
   - B.51 NITROUS OXIDE PRESSURE HIGH
   - B.51 NITROUS OXIDE PRESSURE LOW
   - B.51 NITROUS OXIDE RESERVE IN USE
   - B.51 SPARE

N/A Work completed by VA

KEYNOTES

17. RUN FOURTEEN PAIRS (INCLUDES THREE SPARE PAIR) OF NEW 18-GUAGE SHIELDED TWISTED-PAIR WIRES FROM THE NORMALLY-CLOSED CONTACTS OF EACH ALARM INITIATING DEVICE IN THE B.14 BASEMENT MECHANICAL ROOMS TO THE NEW JUNCTION BOX BUILDING B.1 ROOM 1B08. THE ROUTING SHOWN HAS BEEN EXAMINED BY THE DESIGNER. THE CONTRACTOR IS TO FIELD-VERIFY THE SITE CONDITIONS FOR THE CONDUIT ROUTING. FOLLOW NEC REQUIREMENTS FOR CORRECT CONDUIT SIZING FOR WIRE CABLE SIZE PROVIDED BY THE CONTRACTOR SEE SHEET M112 FOR CONTINUATION.. THE POINTS MONITORED ARE:
   - B.14 OXYGEN PRESSURE HIGH
   - B.14 OXYGEN PRESSURE LOW
   - B.14 MEDICAL AIR PRESSURE HIGH
   - B.14 MEDICAL AIR PRESSURE LOW
   - B.14 MEDICAL AIR DEWPOINT HIGH
   - B.14 MEDICAL AIR CARBON MONOXIDE ALARM
   - B.14 MEDICAL AIR MAIN BANK FILTER SET ALARM
   - B.14 MEDICAL AIR LOCAL FAULT/ALARM
   - B.14 MEDICAL VACUUM PRESSURE LOW
   - B.14 MEDICAL VACUUM OIL FILTER DIFFERENTIAL ALARM
   - B.14 MEDICAL VACUUM FUALT/ALARM
   - B.14 MEDICAL VACUUM OIL FILTER DIFFERENTIAL
18. IT WILL NOW BE A B.14 O.R. MEDICAL GAS "LOCAL" ALARM PANEL. THIS COMPONENT IS A LISTED MASTER ALARM PANEL ORDERED WITH A RELAY BOARD WITH DRY CONTACTS FOR CONNECTION TO THE B.6 MASTER ALARM PANEL THROUGH THE ETHERNET. THIS ALARM PANEL MATCHES THE SIGNAL VOLTAGE OF THE NEW B.14 E.R.MASTER ALARM PANEL. IT WILL MONITOR:
   - B.14 NITROUS OXIDE PRESSURE HIGH
   - B.14 NITROUS OXIDE PRESSURE LOW
   - B.14 NITROUS OXIDE RESERVE IN USE
   - B.14 NITROGEN PRESSURE HIGH
   - B.14 NITROGEN PRESSURE LOW
   - B.14 NITROGEN RESERVE IN USE
   - B.14 CARBON DIOXIDE PRESSURE HIGH
   - B.14 CARBON DIOXIDE PRESSURE LOW
   - B.14 CARBON DIOXIDE RESERVE IN USE
   - B.14 INSTRUMENT AIR PRESSURE HIGH
   - B.14 INSTRUMENT AIR PRESSURE LOW
   - B.14 INSTRUMENT AIR RESERVE IN USE
20. CAP EXISTING EAGLELINES AT MAIN.

N/A Work completed by VA

GENERAL NOTES

1. THESE DRAWINGS ARE NOT INTENDED TO SERVE AS COMPLETE AS-BUILT DRAWINGS. ONLY THE PIPING, EQUIPMENT, AND DEVICES THAT ARE MODIFIED BY THE SCOPE OF WORK OF THIS PROJECT ARE SHOWN.
2. ALL NEW OPENINGS AND PENETRATIONS TO BE FIRESTOPPED TO MATCH EXISTING WALL OR FLOOR CONSTRUCTION. IN THE ABSENCE OF DEFINITION AT THE WALL THE DEFAULT FIRE STOPPING IS TO BE 2-HR. ALL FLOORS TO BE 2-HR. IF OPENING TO BE CLOSED IS TO CONFORM TO UL REQUIREMENTS. RECASTING OF CONCRETE MAY BE REQUIRED TO CLOSE FLOOR OPENINGS IF THE CLOSURE EXCEEDS THE ALLOWABLE UL ASSEMBLY.
3. ALL CONDUITS THAT REMAIN OPEN THROUGH PARTITIONS ARE TO BE SEALED WITH FIRESTOPPING TO A 2-HR REQUIREMENT.

REVISIONS:	DATE

CONSULTANTS:

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12/19/2014
STATE OF UTAH

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DRAWING TITLE: MEDICAL GAS BUILDING #1 FIRST LEVEL

APPROVED: PROJECT DIRECTOR

PROJECT TITLE: B.1, B.14 MED GAS REPAIRS

PROJECT NUMBER: 660-12-82S

BUILDING NUMBER: B1, B14

LOCATION: SALT LAKE CITY, UTAH

DATE: JUNE 12, 2015 | CHECKED: DPB | DRAWN: CRO

DRAWING NUMBER: MG102.02

DWG. 8 OF 21

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
Department of Veterans Affairs

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