



## Addendum No. 01

DATE June 20, 2016  
CLIENT Department of Veteran Affairs  
PROJECT Relocate Police Operation Center  
BWBR COMM. # 3.2015217.00

To: Bidders of Record

This Addendum modifies the Bidding Documents for the project identified above.

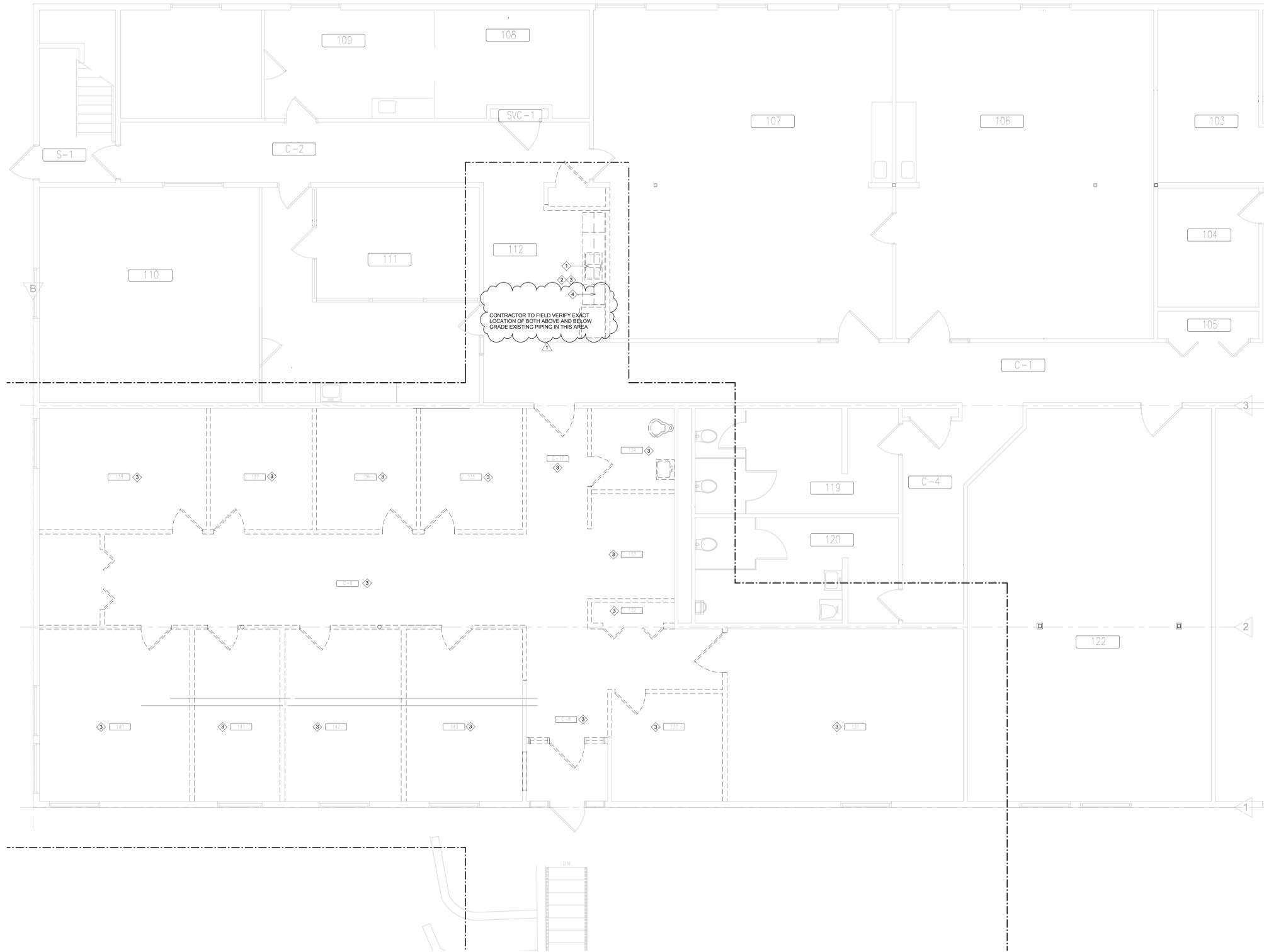
Acknowledge receipt of this Addendum by recording number and date of issue on the Bid Form. Failure to do so may result in disqualification of the Bid. This addendum consists of 1 pages and the following attachments:

ATTACHMENTS Project Manual: None  
Drawing Sheets: MD103, PP100, PP101, E068, ED102, EP101, E201

### DRAWINGS

1. **MD103 – First Floor Plumbing/Sprinkler Demolition Plan (Reissued)**
  - A. Refer to attached drawings for demolition of existing dishwasher rough-in for relocation.
2. **PP100 - Underground Plumbing Plan (Reissued)**
  - A. Refer to attached drawing for installation of standpipe drain for dishwasher and clarification for connection of piping to existing services.
3. **PP101 - First Floor Plumbing Plan (Reissued)**
  - A. Refer to attached drawing for installation of drain standpipe and water connection for relocated dishwasher.
4. **E068 - Building 68 Orientation Plan (Reissued)**
  - A. Disconnect electrical connection to existing power operated doors and fire alarm annunciate panel.
  - B. Add keynotes as indicated on reissued sheet.
5. **ED102 - Power and Systems Demolition Plan (Reissued)**
  - A. Disconnect electrical connection to existing dish machine to be relocated.
  - B. Add keynote as indicated on reissued sheet.
6. **EP101- Power Plan (Reissued)**
  - A. Extend electrical connection to relocated dish machine as indicated.
  - B. Add keynote as indicated on reissued sheet.
7. **E201- Enlarged Electrical Plan (Reissued)**
  - A. Demolish abandoned electrical enclosure and associated conduit as indicated.
  - B. Relocate existing fire alarm control panel and modify existing electrical feed as indicated.
  - C. Add keynotes as indicated on reissued sheet.
  - D. Revise location of new suspended transformer.

END ADDENDUM NO. 01



- GENERAL NOTES:**
- A. PLUMBING CONTRACTOR SHALL REFER TO THE VA MASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 PLUMBING DESIGN GUIDE. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
  - B. PLUMBING CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED. COORDINATION OF SCHEDULES WITH ADJACENT DEPARTMENTS AND CLEANING OF ALL DEBRIS AFTER EACH WORK SHIFT SHOULD BE ASSUMED IN THE BASE BID SCOPE.
  - C. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA FACILITIES WILL REQUIRE A MINIMUM OF TWO(2) WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
  - D. COORDINATE ALL NEW PLUMBING ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
  - E. THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
  - F. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
  - G. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
  - H. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPING PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED, OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.
  - I. ALL CORE DRILLING OR ANY ACTIVITIES CAUSING EXTREME VIBRATION OR NOISE SHALL BE COORDINATED TO BE PERFORMED AFTER BUSINESS HOURS TO NOT AFFECT CRITICAL HOSPITAL FUNCTIONS WITHIN ADJACENT AREAS. COORDINATE WITH UMMC REPRESENTATIVE AS REQUIRED.
  - J. FIELD VERIFY EXISTING WATER, WASTE, VENT, OR OTHER PIPING SYSTEMS FOR CONNECTIONS TO FIXTURES THAT MAY NOT BE IDENTIFIED ON PLANS PRIOR TO SERVICE OUTAGES, DEMOLITION, OR ALTERATIONS OF EXISTING PIPE ROUTING. COORDINATE UNKNOWN SERVICE WITH VA FACILITIES AND ENGINEER OF RECORD.
  - K. THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
  - L. REMOVE EXISTING PLUMBING SYSTEMS THAT ARE NO LONGER ACTIVE.
  - M. REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZING OF PIPE BRANCHES TO INDIVIDUAL FIXTURES.

- KEY NOTES:**
- ① REMOVE EXISTING SINK FIXTURE ALONG WITH ALL VENT AND WATER PIPING ROUGH-INS TO THIS LOCATION. REFER TO NEW PLANS FOR RECONNECTION OF NEW PLUMBING FIXTURES INTO SAME WATER AND VENT SERVICES PREVIOUSLY SERVING THIS EXISTING SINK TO BE DEMOLISHED.
  - ② KITCHENETTE SHALL REMAIN AVAILABLE ON A TEMPORARY BASIS. CONTRACTOR SHALL FACILITATE WORK IN THIS AREA AS TO MINIMIZE DISRUPTION TO DAY CARE FACILITY. COORDINATE OUTAGES OF SERVICE WITH DAY CARE THROUGH ENGINEERING COR.
  - ③ FIRE PROTECTION CONTRACTOR SHALL COORDINATE DEMOLITION OF ALL BRANCH SPRINKLER PIPING AND ASSOCIATED SPRINKLER HEADS THROUGHOUT THE ENTIRE CONSTRUCTION AREA. REUSE OF EXISTING HEADS AND/OR BRANCH PIPING WILL NOT BE PERMITTED-REFER TO NEW PLUMBING SPRINKLER DRAWING FOR INSTALLATION OF NEW SPRINKLER HEADS.
  - ④ REMOVE EXISTING WASTE PIPING AND DOMESTIC WATER CONNECTION WITH BACKFLOW PREVENTION, TO EXISTING DISHWASHER REQUIRING TO BE RELOCATED. COORDINATE FLOOR SAWCUTTING AND PATCHING REQUIRED TO RELOCATE THESE SERVICES TO NEW ROUGH-IN LOCATION AS REQUIRED.

1 - Plumbing/Sprinkler - Demolition - Plot  
1/4" = 1'-0"

CD ISSUE  
FULLY SPRINKLERED

This document may be an electronic file or may be printed from an electronic file provided to the user. It is the sole responsibility of the user to ensure that the content and quality is consistent with the content and quality of the paper documents on file at BWRB.

ADDENDUM #1	06/17/16
REVISIONS	DATE

**GENERAL NOTES:**

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS; ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE. FIRESTOPPING OF THESE OPENING SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

**BWRB**

380 St. Peter Street, Ste. 600  
Saint Paul, MN 55102  
651.222.3701  
bwr.com

**NORTH**

I HEREBY CERTIFY THAT THIS PLUMBING SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jason Gottwalt, P.E.  
DATE: 04/15/2016 REG. NO. 4180

Drawing Title  
**FIRST FLOOR PLUMBING/SPRINKLER DEMOLITION PLAN**

Approved: Division Chief

Approved: Service Director

Project Title  
Relocate Police Operations Center

Location  
VA MEDICAL CENTER  
ONE VETERANS DRIVE  
MINNEAPOLIS, MN 55417

Date: 04/15/2016  
Checked: JRG  
Drawn: BC/JG

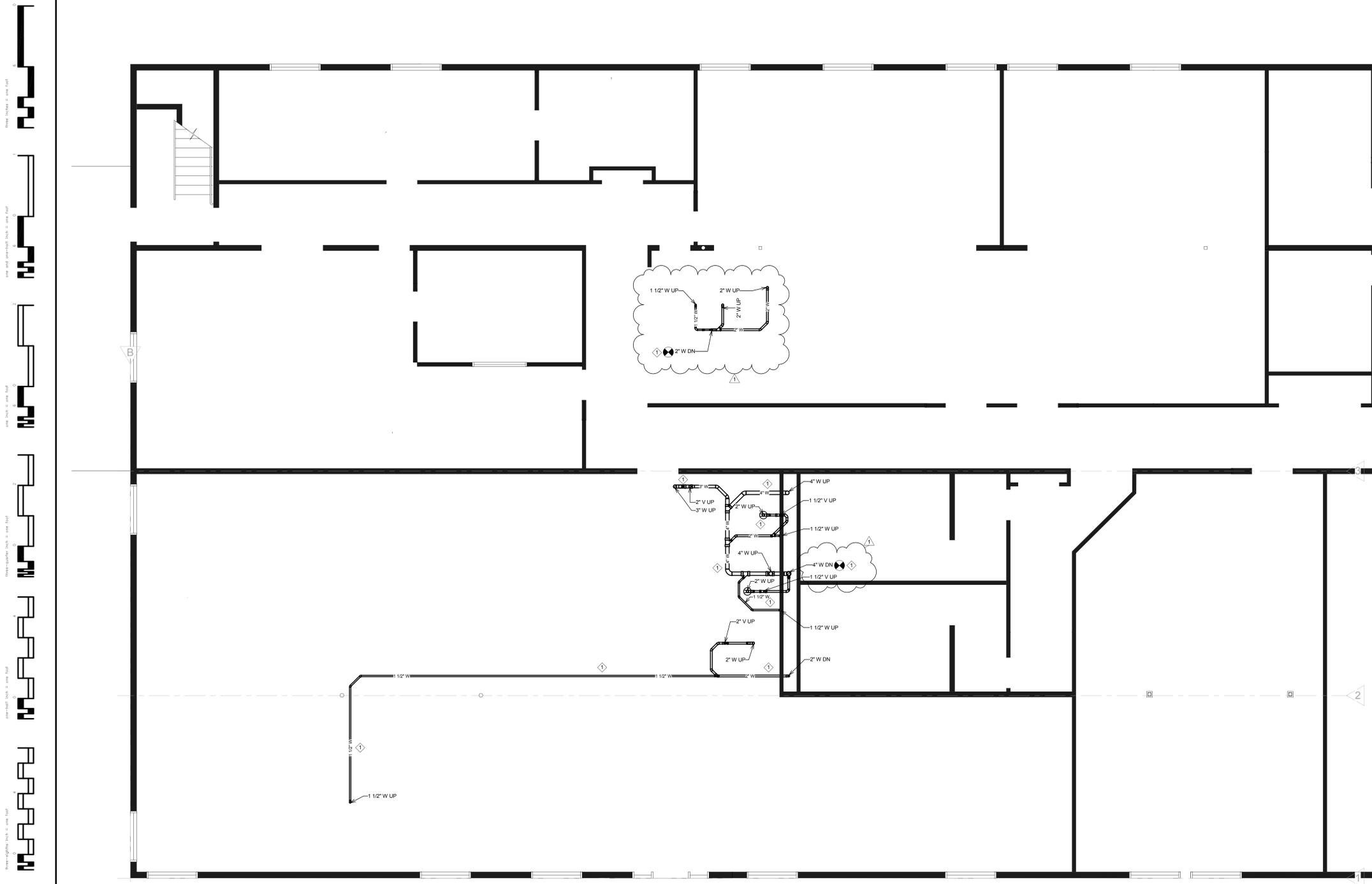
Project No.  
VA Project #: 618-14-117  
BWRB Project #: 3.2015217-00

Building Number  
68

DRAWING NO.  
**1319-MD103**  
Dwg. 13 Of 37

**Office of Facilities Management**

Department of Veterans Affairs



**GENERAL NOTES:**

A. CONTRACTOR WILL BE RESPONSIBLE FOR ALL SAWCUTTING OF FLOOR SLAB ON GRADE AND TRENCHING REQUIRED FOR NEW PLUMBING INSTALLATION. REFER TO SPECIFICATION FOR BACKFILLING REQUIREMENTS.

B. ALL PATCHING OF FLOOR SHALL BE PROVIDED BY MECHANICAL CONTRACTOR WITH FLOOR FINISHES WITHIN CONSTRUCTION AREA BY GENERAL CONTRACTOR UNDER THEIR SCOPE OF WORK. ANY FLOOR TRENCHED AREAS OUTSIDE OF THE CONSTRUCTION AREA SHALL HAVE FLOOR FINISHES REPAIRED AS REQUIRED BY MECHANICAL CONTRACTOR TO MATCH. COORDINATE ACCEPTABLE METHODS WITH ARCHITECT.

C. ELEVATION AND CONDITION OF EXISTING UNDERGROUND PIPING SHALL BE DETERMINED AT POINTS OF CONNECTION PRIOR TO ANY NEW PLUMBING INSTALLATION WORK. REFER TO KEY NOTES ON THIS DRAWING.

**KEY NOTES:**

◇ CONTRACTOR SHALL SAW CUT FLOOR AS REQUIRED TO INSTALL NEW PIPING. CONTRACTOR SHALL PROVIDE CLEAN FILL FOR BACKFILL, FREE OF CONCRETE AND CHUNKS. FLOOR PATCHING SHALL MATCH EXISTING FLOOR AREAS TO EXTENT POSSIBLE.

① 0 - Plumbing - New - Plot  
NO SCALE

CD ISSUE  
FULLY SPRINKLERED

This document may be an electronic file or may be printed from an electronic file provided to the user. It is the sole responsibility of the user to ensure that the content and quality is consistent with the content and quality of the paper documents on file at BWBR.

ADDENDUM #1	DATE
REVISIONS	06/17/16

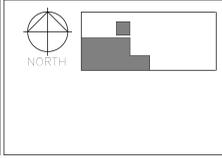
**GENERAL NOTES:**

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS; ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENING SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

**BWBR**

380 St. Peter Street, Ste. 600  
Saint Paul, MN 55102  
651.222.3701  
bwbr.com



I HEREBY CERTIFY THAT THIS PLUMBING SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JASON GOTTWALT, P.E.  
DATE 04/15/2016 REG. NO. 4180

Drawing Title  
**UNDERGROUND PLUMBING PLAN**

Approved: Division Chief

Approved: Service Director

Project Title  
Relocate Police Operations Center

Location  
V.A. MEDICAL CENTER  
ONE VETERANS DRIVE  
MINNEAPOLIS, MN 55417

Date  
04/15/2016

Checked  
JRG

Drawn  
BC/JG

Project No.  
VA Project # 618-14-117  
BWBR Project # 3.2015217.00

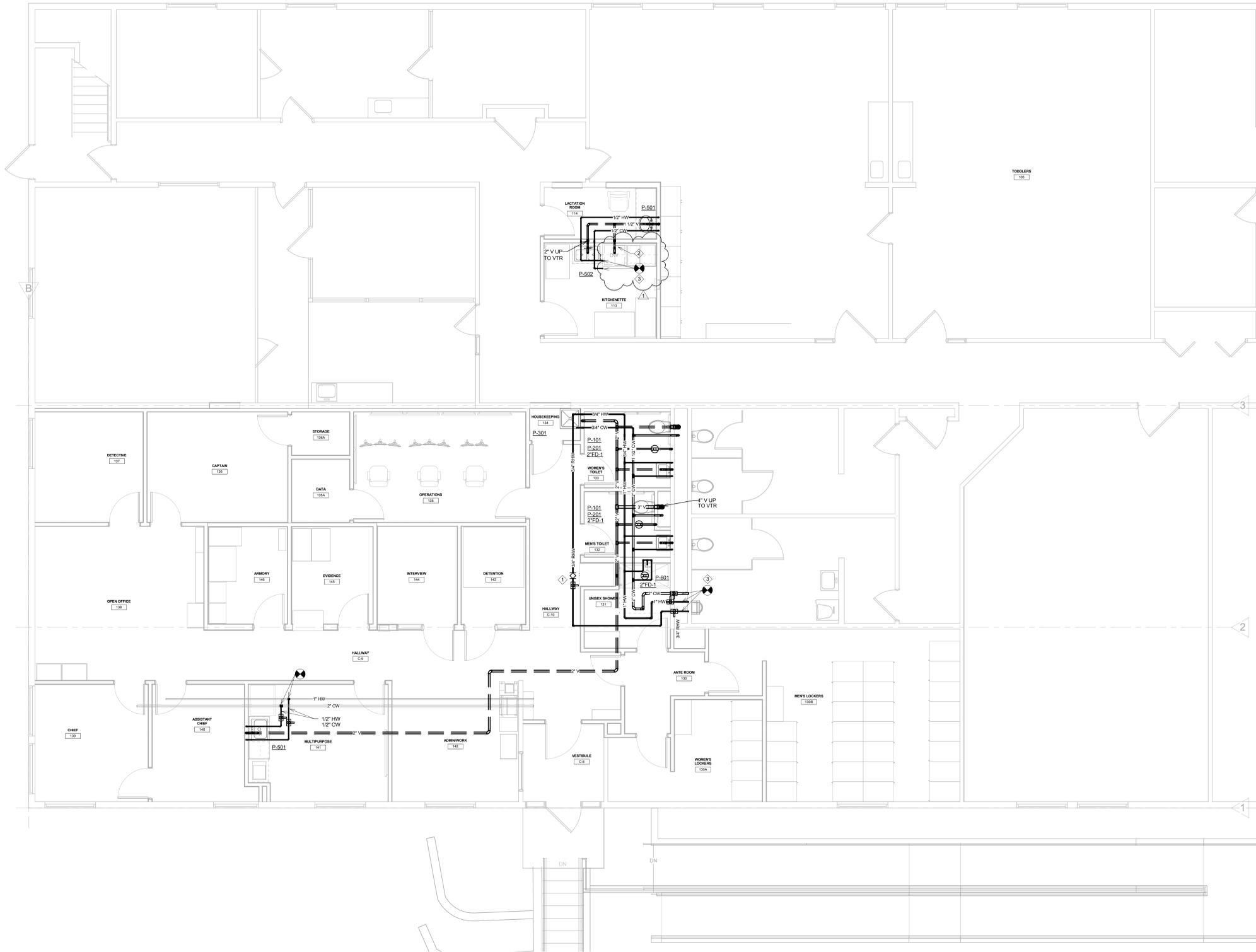
Building Number  
68

DRAWING NO.  
**1319-PP100**

Dwg. 18 of 37

**Office of Facilities Management**

Department of Veterans Affairs



- GENERAL NOTES:**
- A. PLUMBING CONTRACTOR SHALL REFER TO THE VAMASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 PLUMBING DESIGN GUIDE. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
  - B. PLUMBING CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED. COORDINATION OF SCHEDULES WITH ADJACENT DEPARTMENTS AND CLEANING OF ALL DEBRIS AFTER EACH WORK SHIFT SHOULD BE ASSUMED IN THE BASE BID SCOPE.
  - C. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA FACILITIES WILL REQUIRE A MINIMUM OF TWO WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
  - D. COORDINATE ALL NEW PLUMBING ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
  - E. THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
  - F. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
  - G. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
  - H. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPING PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED, OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.
  - I. ALL CORE DRILLING OR ANY ACTIVITIES CAUSING EXTREME VIBRATION OR NOISE SHALL BE COORDINATED TO BE PERFORMED AFTER BUSINESS HOURS TO NOT AFFECT CRITICAL HOSPITAL FUNCTIONS WITHIN ADJACENT AREAS. COORDINATE WITH UNMC REPRESENTATIVE AS REQUIRED.
  - J. FIELD VERIFY EXISTING WATER, WASTE, VENT, OR OTHER PIPING SYSTEMS FOR CONNECTIONS TO FIXTURES THAT MAY NOT BE IDENTIFIED ON PLANS PRIOR TO SERVICE OUTAGES, DEMOLITION, OR ALTERATIONS OF EXISTING PIPE ROUTING. COORDINATE UNKNOWN SERVICE WITH VA FACILITIES AND ENGINEER OF RECORD.
  - K. THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
  - L. REMOVE EXISTING PLUMBING SYSTEMS THAT ARE NO LONGER ACTIVE.
  - M. REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZING OF PIPE BRANCHES TO INDIVIDUAL FIXTURES.

- KEY NOTES:**
- 1. BALANCE TO 6.5 GPM
  - 2. PROVIDE 2" STANDPIPE DRAIN FOR DISHWASHER DISCHARGE. COORDINATE UNDERCOUNTER SPACE AVAILABLE WITH EXISTING EQUIPMENT TO INSTALL ROUGH-IN. RECONNECT WATER WITH PROPER BACKFLOW PREVENTION DEVICE (confirm existing is suitable for reuse).
  - 3. CONTRACTOR SHALL CONFIRM EXACT LOCATION AND ELEVATION OF DOMESTIC WATER PIPING FOR POINT OF CONNECTION. COORDINATE SERVICE OUTAGE AS REQUIRED AND REPLACE ANY FAULTY VALVES AS REQUIRED TO ASSIST IN REDUCING FUTURE OUTAGES.

1 - Plumbing - New - Plot  
1/4" = 1'-0"

CD ISSUE  
FULLY SPRINKLERED

This document may be an electronic file or may be printed from an electronic file provided to the user. It is the sole responsibility of the user to ensure that the content and quality is consistent with the content and quality of the paper documents on file at BWBR.

ADDENDUM #1	06/17/16
REVISIONS	DATE

**GENERAL NOTES:**

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS; ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE. FIRESTOPPING OF THESE OPENING SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

**BWBR**

380 St. Peter Street, Ste. 600  
Saint Paul, MN 55102  
651.222.3701  
bwbr.com

NORTH

HEREBY CERTIFY THAT THIS PLUMBING SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JASON GOTTWALT, P.E.  
DATE 04/15/2016 REG. NO. 4180

Drawing Title	FIRST FLOOR PLUMBING PLAN
Approved Division Chief	
Approved Service Director	

Project Title	Relocate Police Operations Center
Location	V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417
Date	04/15/2016
Checked	JRG
Drawn	BC/JG

Project No.	VA Project # 618-14-117
BWBR Project #	3.2015217.00
Building Number	68
DRAWING NO.	1319-PP101
Dwg.	19 Of 37

**Office of Facilities Management**

Department of Veterans Affairs









LUMINAIRE SCHEDULE								
FIXTURE LETTER	FIXTURE TYPE	VOLTAGE	MOUNTING	LAMPS	CONTROL MEDIA (LENS, LOUVER, ETC.)	MANUFACTURER'S SERIES NUMBERS	LUMINAIRE DESCRIPTION	NOTES
A1	2X4 LENSED TROFFER	120/277V	RECESSED LAY-IN GRID INVERTED TEE	LED 4800 LUMENS 4000K	125" MINIMUM ACRYLIC LENS FLAT SIDED PRISMS	COLUMBIA #L124 SERIES LITHONIA #Z124 SERIES METALUX #ZGR LED SERIES DAY-BRITE #T-GRID SERIES	SPRING LATCHES. POST PAINTED STEEL HOUSING. FLUSH WHITE ALUM. DOOR FRAME. GASKETED AND/OR WITH METAL LIGHT Baffles. DOOR CAN BE LATCHED FROM EITHER SIDE OF HOUSING. 3-11/16" MINIMUM HOUSING DEPTH.	-
A1E	2X4 LENSED TROFFER	120/277V	RECESSED LAY-IN GRID INVERTED TEE	LED 4800 LUMENS 4000K	125" MINIMUM ACRYLIC LENS FLAT SIDED PRISMS	COLUMBIA #L124 SERIES LITHONIA #Z124 SERIES METALUX #ZGR LED SERIES DAY-BRITE #T-GRID SERIES	SPRING LATCHES. POST PAINTED STEEL HOUSING. FLUSH WHITE ALUM. DOOR FRAME. GASK AND/OR WITH METAL LIGHT Baffles. DOOR LATCHED FROM EITHER SIDE OF HOUSING. 3-11/16" MINIMUM HOUSING DEPTH. EMERGENCY BATTERY PACK.	-
B1	2X4 RECESSED INDIRECT	120/277V	RECESSED LAY-IN GRID INVERTED TEE	LED 4800 LUMENS 4000K	HIGH TRANSMISSION EXTRUDED ACRYLIC LENS	COLUMBIA #L SER SERIES LITHONIA #ZV1LS SERIES CORELITE #CLASS R3 SERIES WILLIAMS #DI LED SERIES CREE #Z2R SERIES	POST PAINTED STEEL HOUSING. PLASTIC END CAPS SUPPORT REFLECTOR. LIGHT BASKET ACTS AS LIGHT SEAL. POWER SUPPLY WITH 0-10V CONTINUOUS DIMMING.	-
B1E	2X4 RECESSED INDIRECT	120/277V	RECESSED LAY-IN GRID INVERTED TEE	LED 4800 LUMENS 4000K	HIGH TRANSMISSION EXTRUDED ACRYLIC LENS	COLUMBIA #L SER SERIES LITHONIA #ZV1LS SERIES CORELITE #CLASS R3 SERIES WILLIAMS #DI LED SERIES CREE #Z2R SERIES	POST PAINTED STEEL HOUSING. PLASTIC END CAPS SUPPORT REFLECTOR. LIGHT BASKET ACTS AS LIGHT SEAL. POWER SUPPLY WITH 0-10V CONTINUOUS DIMMING. EMERGENCY BATTERY PACK.	-
B2	2X2 RECESSED INDIRECT	120/277V	RECESSED LAY-IN GRID INVERTED TEE	LED 4800 LUMENS 4000K	HIGH TRANSMISSION EXTRUDED ACRYLIC LENS	COLUMBIA #L SER SERIES LITHONIA #ZV1LS SERIES CORELITE #CLASS R3 SERIES WILLIAMS #DI LED SERIES CREE #Z2R SERIES	POST PAINTED STEEL HOUSING. PLASTIC END CAPS SUPPORT REFLECTOR. LIGHT BASKET ACTS AS LIGHT SEAL. POWER SUPPLY WITH 0-10V CONTINUOUS DIMMING.	-
B2E	2X2 RECESSED INDIRECT	120/277V	RECESSED LAY-IN GRID INVERTED TEE	LED 4800 LUMENS 4000K	HIGH TRANSMISSION EXTRUDED ACRYLIC LENS	COLUMBIA #L SER SERIES LITHONIA #ZV1LS SERIES CORELITE #CLASS R3 SERIES WILLIAMS #DI LED SERIES CREE #Z2R SERIES	POST PAINTED STEEL HOUSING. PLASTIC END CAPS SUPPORT REFLECTOR. LIGHT BASKET ACTS AS LIGHT SEAL. POWER SUPPLY WITH 0-10V CONTINUOUS DIMMING. EMERGENCY BATTERY PACK.	-
D1	6" DIAMETER DIMMABLE LED DOWNLIGHT	120/277	RECESSED GYP BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 3000 LUMENS MIN 4000K	WHITE REFLECTOR MEDIUM DISTRIBUTION	PORTFOLIO #LD6A SERIES PRESCLITE #LFLED SERIES ZUMTOBEL #R86LED SERIES LIGTOUER #CBL SERIES	SELF FLANGED TRIM. SOLID PLATE BAR HANGERS. ACCESSIBLE J-BOX FROM BELOW. WET LOCATION LISTED.	-
D1E	6" DIAMETER DIMMABLE LED DOWNLIGHT	120/277	RECESSED GYP BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 3000 LUMENS MIN 4000K	WHITE REFLECTOR MEDIUM DISTRIBUTION	PORTFOLIO #LD6A SERIES PRESCLITE #LFLED SERIES ZUMTOBEL #R86LED SERIES LIGTOUER #CBL SERIES	SELF FLANGED TRIM. SOLID PLATE BAR HANGERS. ACCESSIBLE J-BOX FROM BELOW. WET LOCATION LISTED. INTEGRAL EMERGENCY BATTERY PACK.	-
E1	EXIT SIGN SINGLE FACE EDGE LIT LED DIE CAST HOUSING	120/277	SURFACE CEILING	LED	CONCEALED CHEVRON KNOCKOUTS	LITHONIA #LE SERIES DUAL-LITE #SEMPRA SERIES SURELITES #CAX SERIES NAVILITE #NXD SERIES	LED SINGLE FACE EXIT FIXTURE WITH BRUSHED ALUMINUM FACE AND HOUSING. RED LETTERING. EMERGENCY BATTERY PACK.	-
E2	EXIT SIGN DOUBLE FACE EDGE LIT LED DIE CAST HOUSING	120/277	SURFACE CEILING	LED	CONCEALED CHEVRON KNOCKOUTS	LITHONIA #LE SERIES DUAL-LITE #SEMPRA SERIES SURELITES #CAX SERIES NAVILITE #NXD SERIES	LED DOUBLE FACE EXIT FIXTURE WITH BRUSHED ALUMINUM FACE AND HOUSING. RED LETTERING. EMERGENCY BATTERY PACK.	-
J1	4" LENSED INDUSTRIAL	120/277	SURFACE/CHAIN	LED 4800 LUMENS 4000K	CLEAR LENS	COLUMBIA #L CL SERIES HE WILLIAMS #7SL SERIES LITHONIA #ZL1D L48 SERIES METALUX #SNLED SERIES	STEEL CHANNEL. WHITE POWDER COAT.	-
R1	2X4 RECESSED ROUGH SURFACE	120/277	RECESSED LAY-IN GRID INVERTED TEE	LED 4200 LUMENS MIN 4000K	INNER/OUTER LENS 125 PRISMATIC ACRYLIC INNER WITH 0.375 CLEAR POLYCARBONATE OUTER LENS	FAIL-SAFE #MR SERIES KENALL #MIGHTY MAC RMCD SERIES LUMINAIRE LED #SUPER MAX RMG SERIES NEUTER #M7 SERIES	DIE-FORMED HOUSING WITH WELDED CORNERS. WHITE POWDER COAT FINISH. CONCEALED PIANO HINGE. ONE-PIECE 16 GA. DOOR FRAME. TORX HEAD FASTENERS	-
W1	2'-0" WALL BRACKET	120/277	SURFACE WALL MOUNTED	LED 4000K	#12 ACRYLIC PRISMATIC DIFFUSER	COLUMBIA #L CL SERIES LITHONIA #WL SERIES METALUX #CBLD SERIES WILLIAMS #SLF SERIES	DIE-FORMED HOUSING WITH WELDED CORNERS. WHITE POWDER COAT FINISH. CONCEALED PIANO HINGE. ONE-PIECE 16 GA. DOOR FRAME. TORX HEAD FASTENERS	-
W2	2'-0" INDOOR ADA COMPLIANT SCENCE	277	SURFACE VERTICAL WALL MOUNTED	LED 4000K	MATTE WHITE ACRYLIC LENS DIFFUSER	ALW #LIGHTPLANE 3.8 SERIES ARANCIA #C31 SERIES ARTEMIDE #Z 3 SQUARE STRIP SERIES OCL #VIA SERIES	BRUSHED ALUMINUM FINISH. EXTRUDED ALUMINUM. DIE-CAST ALUMINUM HOUSING. DIMMING DRIVER.	-

**GENERAL NOTES:**  
A. SEE SPECIFICATION SECTION 265100 AND 265600 FOR ADDITIONAL LIGHT FIXTURE REQUIREMENTS  
B. ANY CONFLICTS BETWEEN THE MANUFACTURER'S CATALOG NUMBER AND THE DESCRIPTIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.  
C. TO INSURE MATCHING COLOR AND APPEARANCE, ALL LAMPS SHALL BE FROM THE SAME MANUFACTURER. LAMPS SHALL HAVE COLOR TEMPERATURE 4000K WITH CRI OF 80 UNLESS OTHERWISE NOTED.  
D. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS NAMED, THE MANUFACTURER'S NAME AS ALTERNATES MUST SUBMIT CATALOG CUT SHEETS, IES FORMATTED PHOTOMETRIC REPORT TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO THE BID DATE. THE ENGINEER MAY REQUEST SAMPLE OF FIXTURE TO BE SUPPLIED.  
E. SUBSTITUTE FIXTURES SUBJECT TO ARCHITECT/ENGINEER/OWNER APPROVAL.  
F. TO INSURE MATCHING COLOR AND APPEARANCE, ALL LEADS SHALL BE FROM THE SAME MANUFACTURER AND BATCH. MINIMUM CRI OF 80 UNLESS OTHERWISE NOTED.  
G. PROVIDE FACTORY INSTALLED DISCONNECTING MEANS FOR ALL DOUBLE-ENDED LUMINAIRES WHERE REQUIRED BY NEC 410.130(G).

**KEY NOTES:**  
1. VERIFY CEILING TYPE PRIOR TO ORDERING FIXTURES

CAMERA	ROOM NAME	ROOM #	CAMERA TYPE	HOUSING TYPE	MOUNTING	NOTES
FIRST LEVEL						
C1	VESTIBULE	C-8	FIXED	DOMED	CEILING	
C2	DETENTION	143	FIXED	DOMED	CEILING	
C3	INTERVIEW	144	FIXED	DOMED	CEILING	
C4	INTERVIEW	144	FIXED	DOMED	CEILING	
C5	DATA	135A	FIXED	DOMED	CEILING	

NAME: EP-1											
VOLTAGE: 120/208			MIN. BUS RATING: 1550 A			MOUNTING: Surface			VOLTAGE: 480/277		
PHASE: 3			MAIN SIZE: 100 A			PHASE: 3			MAIN SIZE: 100 A		
WIRE: 4			MAIN OPTIONS: MCB			WIRE: 4			MAIN OPTIONS: MCB		
CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES
1	Existing Load		20 A	1	1	0 A	Existing Load		20 A	1	
3	Existing Load		20 A	1	1	0 A	Existing Load		20 A	1	
5	Existing Load		20 A	1	1	0 A	Existing Load		20 A	1	
7	Existing Load		20 A	1	1	0 A	Existing Load		20 A	1	
9	Existing Load		20 A	1	1	0 A	Existing Load		20 A	1	
11	Existing Load		20 A	1	1	0 A	Existing Load		20 A	1	
13	Existing Load		20 A	1	1	0 A	Existing Load		20 A	1	
15	Existing Load		20 A	1	3	30 A	Spare		20 A	1	
17	Existing Load		20 A	1					20 A	1	
19	Existing Load		20 A	1					20 A	1	
21					3	30 A	Spare		20 A	1	
23									20 A	1	
25									20 A	1	
27									20 A	1	
29									20 A	1	
31									20 A	1	
33									20 A	1	
35									20 A	1	
37									20 A	1	
39									20 A	1	
41									20 A	1	

**GENERAL NOTES:**  
A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

**NOTES:**  
1. EXISTING PANELBOARD  
2. PROVIDE NEW BREAKER  
3.  
4.

NAME: P-1B LEFT											
VOLTAGE: 120/208			MIN. BUS RATING: 3590 A			MOUNTING: Surface			VOLTAGE: 480/277		
PHASE: 3			MAIN SIZE: 100 A			PHASE: 3			MAIN SIZE: 100 A		
WIRE: 4			MAIN OPTIONS: MLO			WIRE: 4			MAIN OPTIONS: MLO		
CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES
1	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
3	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
5	Existing Load		20 A	2	1	20 A	Existing Load		20 A	1	
7					1	20 A	Existing Load		20 A	1	
9	Existing Load		20 A	2	1	20 A	Existing Load		20 A	1	
11					1	20 A	Existing Load		20 A	1	
13	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
15	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
17	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
19	Existing Load		20 A	1	3	20 A	Existing Load		20 A	1	
21									20 A	1	
23	Existing Load		20 A	1					20 A	1	
25	Existing Load		50 A	2	3	50 A	ACCU 1-01		20 A	1	
27									20 A	2	
29									20 A	2	
31					3	20 A	ACCU 1-01 EXTERIOR CONDENSING UNIT (PROV BKR)		20 A	1	
33									20 A	1	
35									20 A	1	
37									20 A	1	
39									20 A	1	
41									20 A	1	

**GENERAL NOTES:**  
A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

**NOTES:**  
1. EXISTING PANELBOARD  
2. PROVIDE NEW BREAKER  
3.  
4.

NAME: L-1											
VOLTAGE: 480/277			MIN. BUS RATING: 8370 A			MOUNTING: Surface			VOLTAGE: 120/208		
PHASE: 3			MAIN SIZE: 100 A			PHASE: 3			MAIN SIZE: 100 A		
WIRE: 4			MAIN OPTIONS: MCB			WIRE: 4			MAIN OPTIONS: MCB		
CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES
1	Existing Load		20 A	3	3	25 A	Existing Load		20 A	3	
3									20 A	3	
5									20 A	3	
7	Existing Load		20 A	3	1	20 A	Existing Load		20 A	3	
9									20 A	3	
11									20 A	3	
13	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
15	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
17	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
19	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
21	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
23	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
25	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
27	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
29	Existing Load		20 A	1	1	20 A	Existing Load		20 A	1	
31	POLICE OPERATIONS LIGHTING		2	20 A	1	1	20 A	2	EVAV 1-02	1	
33	EVAV 1-03		2	20 A	1	1	20 A	2	EVAV 1-04	1	
35	EVAV 1-05		2	20 A	1	1	20 A	2	EVAV 1-06	1	
37	EVAV 1-07		2	30 A	1	1	20 A	2	EVAV 1-08	1	
39	EVAV 1-09		2	30 A	1	1	20 A	2	EVAV 1-10	1	
41	SPARE (PROVIDE BREAKER)				20 A	1	20 A	2	SPARE (PROVIDE BREAKER)	1	

**GENERAL NOTES:**  
A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

**NOTES:**  
1. EXISTING PANELBOARD TYPE EATON PRL3E SERIES.  
2. PROVIDE NEW BREAKER.  
3.  
4.

NAME: P-1B RIGHT											
VOLTAGE: 120/208			MIN. BUS RATING: 3560 A			MOUNTING: Surface			VOLTAGE: 480/277		
PHASE: 3			MAIN SIZE: 100 A			PHASE: 3			MAIN SIZE: 100 A		
WIRE: 4			MAIN OPTIONS: MLO			WIRE: 4			MAIN OPTIONS: MLO		
CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES
1	Existing Load		20 A	1	1	20 A	REC - 137		20 A	1	
3	Existing Load		20 A	1	1	20 A	REC - 136, 136A		20 A	1	
5	Existing Load		20 A	1	1	20 A	REC - 144, 145, 146		20 A	1	
7	Existing Load		20 A	1	1	20 A	REC - BIZHUB RM 142		20 A	1	
9	Existing Load		20 A	1	1	20 A	REC - 142		20 A	1	
11	Existing Load		20 A	1	1	20 A	REC - 142		20 A	1	
13	Existing Load		20 A	1	1	20 A	REC - 141, C-8		20 A	1	
15	LITG AND RECEPTACLES - POLICE OPERATIONS ROOM...		20 A	1	1	20 A	REC - 141 REF		20 A	1	
17	REC - 131, 132, 133, 134		20 A	1	1	20 A	REC - 141		20 A	1	
19	REC - 130, 130A, 130B		20 A	1	1	20 A	REC - 141 MIC		20 A	1	
21	REC - OPEN OFFICE 138		20 A	1	1	20 A	Existing Load		20 A	1	
23	REC - OPEN OFFICE 138		20 A	1	1	20 A	REC - Data Room 135A		20 A	1	
25	REC - RM 139, 140		20 A	1	1	20 A	Existing Load		20 A	1	
27	Existing Load		20 A	2	1	20 A	Existing Load		20 A	1	
29							Existing Load		20 A	1	
31	ELECTRIFIED PRIVACY GLASS		2.3	20 A	1	1	20 A				