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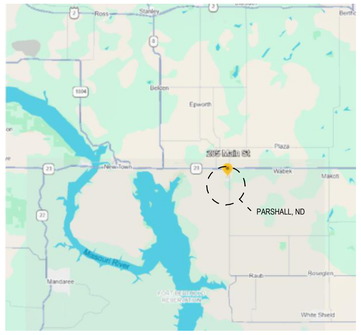
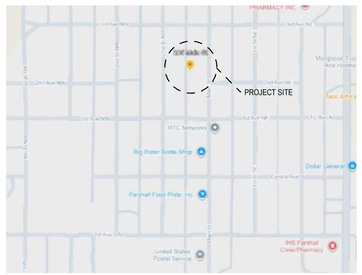
## SITE VICINITY MAP




## SITE LOCATION MAP




# PARSHALL HOTEL and LAUNDROMAT

## PARSHALL, NORTH DAKOTA

## ISSUE FOR REBID BP2.0R1 - 05/04/2026

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# MECHANICAL, PLUMBING, ELECTRICAL, LOW VOLTAGE, SECURITY and FIRE ALARM and PROTECTION

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ME301 MECHANICAL and ELECTRICAL SCHEDULES
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LV101 FIRST FLOOR IT PLAN
LV102 SECOND FLOOR IT PLAN
LV103 UNITS IT PLAN

AC1.00 WIRELESS ACCESS CONTROL PLAN

SEC1.00 SECURITY PLAN

AV1.00 AUDIO-VISUAL PLAN



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Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 08/28/2025 | Bid Package 1.0 |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 02/06/2026 | BP2.0R, ADD4.0 |
| | 05/04/2026 | Issued for Re-Bid BP2.0R1 |

VOLUME 2 TITLE SHEET, PROJECT PARTICIPANTS and SHEET INDEX

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Checked by: RML

SHEET NUMBER
T002


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## GENERAL

- MECHANICAL NOTE REFERENCE
- ELECTRICAL NOTE REFERENCE
- DEMOLITION NOTE REFERENCE
- REVISION NOTE REFERENCE
- CONNECT TO EXISTING WORK
- DETAIL REFERENCE - NO./SHEET NO.
- SECTION CUT - SECTION/SHEET NO.
- BRACKET DENOTES A WALL MOUNTED DEVICE, TYP

## CONDUIT AND WIRE

- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. 3-#12 AWG CONDUCTORS, UNLESS NOTED OTHERWISE.
- TICK MARKS (UN-SWITCHED LINE, NEUTRAL, GROUND)
- ARROW INDICATES HOME RUN TO PANEL.
- CONDUIT RUN UNDERGROUND OR CONCEALED IN SLAB.D)
- LOW VOLTAGE WIRING/CONDUIT RUN

## LIGHTING

- BATTERY OPERATED EMERGENCY LIGHT (WALL MOUNTED)
- BATTERY OPERATED EMERGENCY LIGHT (CEILING MOUNTED)
- SURFACE/RECESSED LIGHT FIXTURE
- DENOTES A WALL MOUNTED FIXTURE
- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- 1X4 LIGHT FIXTURE
- STRIP / LINEAR LIGHT FIXTURE
- SHADING DENOTES EMERGENCY FIXTURE
- POLE MOUNTED LIGHT FIXTURE - SINGLE HEAD
- POLE MOUNTED LIGHT FIXTURE - DUAL HEAD
- POLE MOUNTED LIGHT FIXTURE - PEDESTRIAN SCALE
- EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN
- EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN
- LINE VOLTAGE SWITCHES-SINGLE POLE, 3-WAY, 4-WAY, KEY, PILOT LIGHT, DIMMER
- VACANCY SWITCH
- VACANCY DIMMER SWITCH
- LOW VOLTAGE SWITCH
- LOW VOLTAGE DIMMER SWITCH
- LOW VOLTAGE SCENE SWITCH
- DIGITAL TIMER SWITCH
- OCCUPANCY SENSOR (LETTER DENOTES TYPE)
- PHOTOCELL
- LIGHTING CONTROL NOTE

## WIRING DEVICES

- DUPLEX RECEPTACLE
- FOURPLEX RECEPTACLE
- SIMPLEX/SPECIAL RECEPTACLE (NEMA CONFIG. NOTED)
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- RECEPTACLE TYPES - (IG) ISOLATED GROUND, (GFI) GROUNDFAULT, (U) UPS, (USB) W/ INTEGRAL USB, (S) SPLIT WIRED, (C) OCCUPANCY CONTROLLED (SEE DETAIL)
- DUPLEX RECEPTACLE SUPPLIED BY GENERATOR (SINGLE, FOURPLEX AND SPECIAL ARE SIMILAR)
- CEILING MOUNTED RECEPTACLE
- RECESSED FLOOR BOX W/DUPLEX RECEPTACLE
- MULTI-SERVICE WALL BOX (SEE DETAIL WHEN TAGGED WITH "C")
- MULTI-SERVICE FLOOR BOX (SEE DETAIL WHEN TAGGED WITH "C")
- DIVIDED POWER POLE
- MULTI-OUTLET ASSEMBLY
- C = CONDUIT OR "OCCUPANCE CONTROLLED" WHEN USED AS A WIRING DEVICE TAG

## POWER DEVICE AND CONTROLS

- DISCONNECT SWITCH. 30A/3P NON-FUSED EXCEPT AS NOTED OTHERWISE.
- MAGNETIC MOTOR STARTER
- COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
- MOTOR
- PANELBOARD (SEE ONE-LINE)
- CONTACTOR
- AUTOMATIC TRANSFER SWITCH
- JUNCTION BOX
- JUNCTION BOX - FURNITURE FEED WHIP CONNECTION
- PUSHBUTTON
- EMERGENCY POWER OFF PUSHBUTTON
- TRANSFORMER
- CONTROL RELAY

## TELECOMMUNICATIONS

- TELEPHONE OUTLET
- DATA OUTLET
- TELEPHONE/DATA OUTLET
- TELEVISION OUTLET
- ABOVE CEILING DATA OUTLET FOR WIRELESS ACCESS POINT
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- CIRCLE INDICATES FLOOR MOUNTED OUTLET
- SQUARE INDICATES CEILING MOUNTED OUTLET

## SPECIAL SYSTEMS

- MICROPHONE OUTLET
- SPEAKER
- HORN TYPE SPEAKER
- SPEAKER VOLUME CONTROL
- PUBLIC ADDRESS AMPLIFIER AND CABINET
- DOOR BELL
- INTERCOM STATION
- INTERCOM STATION - MASTER
- AUDIO/VISUAL BOX
- CEILING MOUNTED AUDIO/VISUAL BOX

## SECURITY

- SURVEILLANCE CAMERA ('F' DENOTES FISH-EYE TYPE)
- PTZ SURVEILLANCE CAMERA
- SURVEILLANCE CAMERA WITH 180° VIEWING ANGLE (PANORAMIC STYLE)
- SURVEILLANCE CAMERA WITH 360° VIEWING ANGLE (PANORAMIC STYLE, WITH MULTIPLE CAMERA LENSES)
- CCTV DISPLAY SCREEN
- CARD READER ('D' DENOTES A DUAL LEVEL TYPE (W/PIN)
- ACCESS CONTROL DOOR INTERFACE
- DOOR HARDWARE POWER SUPPLY
- DUAL AUTHENTICATION CARD READER (WITH KEYPAD)
- BALANCED MAGNETIC SWITCH
- MOTION SENSOR REQUEST TO EXIT ABOVE DOOR
- REQUEST TO EXIT PUSHBUTTON
- DELAYED EGRESS PANIC BAR
- ELECTRIFIED LOCKSET
- ELECTRIFIC DOOR STRIKE
- MAGNETIC DOOR LOCK
- ACCESS CONTROL STATION (ENROLLMENT)
- SECURITY MANAGEMENT STATION
- INTRUSION - ACTIVATION/DEACTIVATION KEYPAD
- DOOR CONTACT
- REFRIGERATOR ALARM
- MOTION SENSOR - SECURITY
- GLASS BREAK SENSOR
- WINDOW MESH SENSOR
- WIRELESS DURESS (PANIC) BUTTON - CONCEALED AT DESK
- WIRELESS DURESS (PANIC) BUTTON - WALL MOUNT TYPE
- DURESS PHONE, PEDESTAL TYPE ("CODE BLUE PHONE")
- DURESS (PANIC) MASTER STATION/ANNUNCIATION PANEL

## FIRE ALARM

- FIRE ALARM ANNUNCIATION PANEL
- FIRE ALARM CONTROL PANEL
- MANUAL PULL STATION
- SMOKE DETECTOR
- SMOKE DETECTOR - DUCT MOUNTED
- SMOKE DETECTOR - WITH SOUNDER BASE
- COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
- CARBON MONOXIDE DETECTOR
- COMBO SMOKE/CARBON MONOXIDE/SOUNDER BASE
- THERMODETECTOR(HEAT) DETECTOR
- THERMODETECTOR(HEAT) DETECTOR - DUCT MOUNTED
- DOOR HOLDER
- CHIME
- BELL
- FIRE ALARM HORN
- FIRE ALARM SPEAKER
- FIRE ALARM STROBE
- COMBINATION FIRE ALARM HORN AND STROBE
- COMBINATION FIRE ALARM SPEAKER AND STROBE
- REMOTE ALARM LAMP
- POST INDICATOR SWITCH
- FLOW SWITCH
- TAMPER SWITCH
- ADDRESSABLE INTERFACE

## NURSE CALL

- MASTER STATION
- MASTER STATION W/ SPEAKER (HANDSET)
- STAFF STATION W/ SPEAKER
- DUTY STATION
- DUTY STATION W/ SPEAKER
- EMERGENCY PULLCORD
- EMERGENCY PULLCORD W/ SPEAKER
- CODE BUTTON
- STAFF ASSIST BUTTON
- CODE AND STAFF ASSIST BUTTONS
- PATIENT STATION - SINGLE
- PATIENT STATION - DUAL
- PATIENT STATION W/ CODE/STAFF ASSIST
- BED INTERFACE
- AUXILIARY INPUT - SINGLE
- AUXILIARY INPUT - DUAL
- DOME LIGHT
- DOME LIGHT - ZONE TYPE

## HVAC

- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- DUAL TEMP SUPPLY
- DUAL TEMP RETURN
- CONDENSER SUPPLY
- CONDENSER RETURN
- HEATING HOT WATER SUPPLY
- HEATING HOT WATER RETURN
- STEAM SUPPLY
- STEAM CONDENSATE RETURN
- HVAC DRAIN (CONDENSATE)
- REFRIGERANT
- THERMOSTAT
- TEMPERATURE SENSOR
- HUMIDITY SENSOR
- CARBON DIOXIDE SENSOR
- THERMOSTAT / CO2 SENSOR COMBO
- THERMOSTAT / CO2 / HUMIDITY SENSOR COMBO
- CHLORINE SENSOR
- SPACE PRESSURE MONITOR
- CARBON MONOXIDE SENSOR
- NITROGEN DIOXIDE SENSOR
- CARBON MONOXIDE / NITROGEN DIOXIDE SENSOR
- WALL SWITCH
- HUMIDIFIER

## FIRE PROTECTION

- FIRE PROTECTION PIPING
- FIRE HOSE CABINET
- FIRE DEPARTMENT VALVE
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER
- RECESSED SPRINKLER
- CONCEALED SPRINKLER
- SIDEWALL SPRINKLER.
- DOUBLE CHECK DETECTOR BACKFLOW PREVENTER
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- WAG LINE

## PLUMBING

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER 140°
- DOMESTIC TEMPER WATER
- SOFT DOMESTIC COLD WATER
- SOFT DOMESTIC HOT WATER
- SOFT HOT WATER RECIRC
- DOMESTIC HOT WATER RECIRC
- DOMESTIC HOT WATER RECIRC 140°
- DOMESTIC DEIONIZED WATER
- REVERSE OSMOSIS WATER
- COMPRESSED AIR
- SANITARY WASTE
- SANITARY WASTE UNDERGROUND
- VENT
- PUMP DISCHARGE
- GREASE WASTE
- GREASE WASTE UNDERGROUND
- STORM DRAIN
- STORM DRAIN UNDERGROUND
- STORM OVERFLOW DRAIN
- STORM OVERFLOW DRAIN UNDERGROUND
- HOSE BIBB, WALL / ROOF / YARD HYDRANT
- CLEAN OUT, WALL CLEAN OUT
- FLOOR CLEAN OUT
- FLOOR / AREA DRAIN
- FLOOR SINK / TROUGH
- ROOF DRAIN / OVERFLOW ROOF DRAIN
- TRENCH DRAIN
- REDUCED PRESSURE BACKFLOW PREVENTER
- PLUMBING RISER CALL-OUT NUMBER

## MEDICAL / LABORATORY

- MEDICAL COMPRESSED AIR
- MEDICAL VACUUM
- DENTAL VACUUM
- OXYGEN
- NITROGEN
- NITROUS OXIDE
- WAG LINE
- INSTRUMENT COMPRESSED AIR
- OXYGEN OUTLET
- MEDICAL VACUUM OUTLET
- MEDICAL AIR OUTLET
- NITROUS OXIDE OUTLET
- INSTRUMENT AIR OUTLET

## PIPING

- ELBOW DOWN
- ELBOW UP
- TEE UP
- TEE DOWN
- CAP
- UNION
- PIPE FLEX
- STRAINER
- PRESSURE GAUGE WITH GAUGE COCK
- TEMPERATURE GAUGE
- THERMOMETER.
- SITE GLASS
- FILTER-DRIER
- BASKET STRAINER
- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- BALANCING VALVE
- RELIEF VALVE
- TEST PLUG
- TRIPLE DUTY VALVE
- CHECK VALVE
- AUTOMATIC CONTROL VALVE (2-WAY)
- AUTOMATIC CONTROL VALVE (3-WAY)
- SOLENOID VALVE
- PRESSURE REDUCING VALVE / PRESSURE REGULATOR

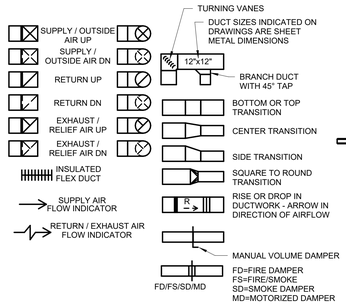
## FUEL UTILITIES

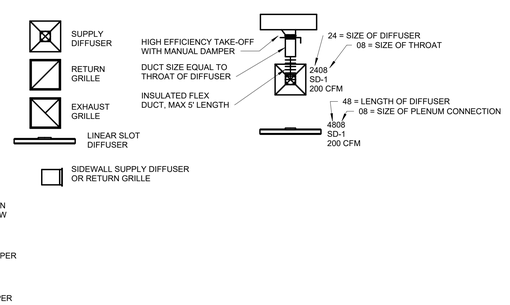
- FUEL OIL SUPPLY
- FUEL OIL RETURN
- LIQUID PETROLEUM
- NATURAL GAS

## AUTOMOTIVE

- AUTOMOTIVE COMPRESSED AIR
- TRANSMISSION FLUID
- COOLANT
- LUBE OIL
- COMPRESSED AIR OUTLET
- LUBE OIL OUTLET

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A | AMPS | CO | CLEANOUT, CARBON MONOXIDE | GCO | GRADE CLEANOUT | MD | MOTORIZED DAMPER | SF | SQUARE FEET |
| A/C | AIR CONDITIONING | CO2 | CARBON DIOXIDE | GFI/GFCI | GROUND FAULT CIRCUIT INTERRUPTER | MOCP | MAXIMUM OVERCURRENT CIRCUIT PROTECTION | SP | STATIC PRESSURE |
| AD | ACCESS DOOR | CU | COPPER, CONDENSING UNIT | GND | GROUND | MFR | MANUFACTURER | SWBD | SWITCHBOARD |
| AFC | ABOVE FINISH CEILING | CW | DOMESTIC COLD WATER | GPM | GALLONS PER MINUTE | MLO | MAIN LUGS ONLY | TOD | TOP OF DUCT |
| AFG | ABOVE FINISH GRADE | DDC | DIRECT DIGITAL CONTROL | HOA | HAND OFF AUTOMATIC | MU | MAKE UP | TOP | TOP OF PIPE |
| AFF | ABOVE FINISHED FLOOR | DN | DOWN | HW | DOMESTIC HOT WATER | N/A | NOT APPLICABLE | TSTAT | THERMOSTAT |
| BD | BACKDRAFT DAMPER | DX | DIRECT EXPANSION | IE | INVERT ELEVATION | N/C | NORMALLY CLOSED | UNO | UNLESS NOTED OTHERWISE |
| BFF | BELOW FINISHED FLOOR | EA | EXHAUST AIR | IG | ISOLATED GROUND | N/O | NORMALLY OPEN | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| BFG | BELOW FINISHED GRADE | EAT | ENTERING AIR TEMPERATURE | KV | KILOVOLT | NF | NON-FUSED DEVICE | VAV | VARIABLE AIR VOLUME |
| BFP | BACKFLOW PREVENTER | EC | ELECTRICAL CONTRACTOR | KVA | KILOVOLT AMPS | NIC | NOT IN CONTRACT | VD | MANUAL VOLUME DAMPER |
| BKR | BREAKER | EPO | EMERGENCY POWER OFF | KW | KILOWATT | NL | NIGHT LIGHT | VTR | VENT THROUGH ROOF |
| BOD | BOTTOM OF DUCT | ETR | EXISTING TO REMAIN | KWH | KILOWATT HOUR | OA | OUTSIDE AIR | W | WATT(S) |
| BOP | BOTTOM OF PIPE | EWB | ENTERING WET BULB | LAT | LEAVING AIR TEMPERATURE | PH | PHASE | W/ | WITH |
| BOS | BOTTOM OF STRUCTURE | EXH | EXHAUST | LDB | LEAVING DRY BULB | PRV | PRESSURE REDUCING VALVE | W/O | WITHOUT |
| BTU | BRITISH THERMAL UNIT | F/S | COMBINATION FIRE AND SMOKE DAMPER | LRA | LOCKED ROTOR AMPS | QTY | QUANTITY | WB | WET BULB |
| C | CONDUIT | FACP | FIRE ALARM CONTROL PANEL | LV | LOW VOLTAGE | RA | RETURN AIR | WCO | WALL CLEANOUT |
| CA | COMPRESSED AIR | FAACP | FIRE ALARM ANNUNCIATOR CONTROL PANEL | LWB | LEAVING WET BULB | REV | REVISION | WP | WEATHERPROOF |
| CATV | CABLE TELEVISION SYSTEM | FCO | FLOOR CLEANOUT | LWT | LEAVING WATER TEMPERATURE | RH | RELATIVE HUMIDITY | XFMR | TRANSFORMER |
| CB | CIRCUIT BREAKER | F/D | FIRE DAMPER | MBH | 1000 BTU PER HOUR | RLA | RELIEF AIR, RUNNING LOAD AMPS | XP | EXPLOSION PROOF |
| CCTV | CLOSED CIRCUIT TELEVISION | FLA | FULL LOAD AMPS | MC | MECHANICAL CONTRACTOR | RPM | REVOLUTIONS PER MINUTE | | |
| CFM | CUBIC FEET PER MINUTE | FL | FLOW LINE | MCA | MINIMUM CIRCUIT AMPACITY | SA | SUPPLY AIR | | |
| CKT | CIRCUIT | G | GROUND | MCC | MOTOR CONTROL CENTER | SD | SMOKE DAMPER | | |




# MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

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| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME101

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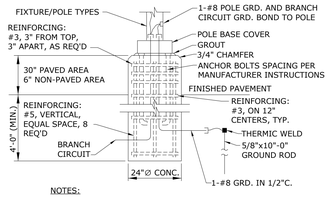



NOTES:

1. CONCRETE BASES SHALL BE 4000 PSI COMPRESSIVE STRENGTH AIR ENTRAINED CONCRETE MINIMUM, CAST IN PLACE OR PRE-CAST. REINFORCING # TIES SHALL EXTEND FULL LENGTH OF BASES ST 12" O.C., WITH ADDITIONAL TIES AT TOP.
2. ANCHOR BOLTS AND BASE PLATE TEMPLATE SHALL BE PROVIDED BY LIGHTING POLE MANUFACTURER TO VENDOR FOR BASES PRIOR TO CONSTRUCTION.
3. INSTALL A CURVED LID JUNCTION BOX IN THE FACE OF ALL POLE BASES. SERVES AS A TERMINATION POINT FOR SECURITY CONDUIT AND A LOCATION TO MOUNT LOW VOLTAGE EQUIPMENT. J-BOX MANUFACTURED BY CARLON.

## LIGHT POLE BASE DETAIL

NOT TO SCALE 265619-01

ELECTRICAL PLAN NOTES:

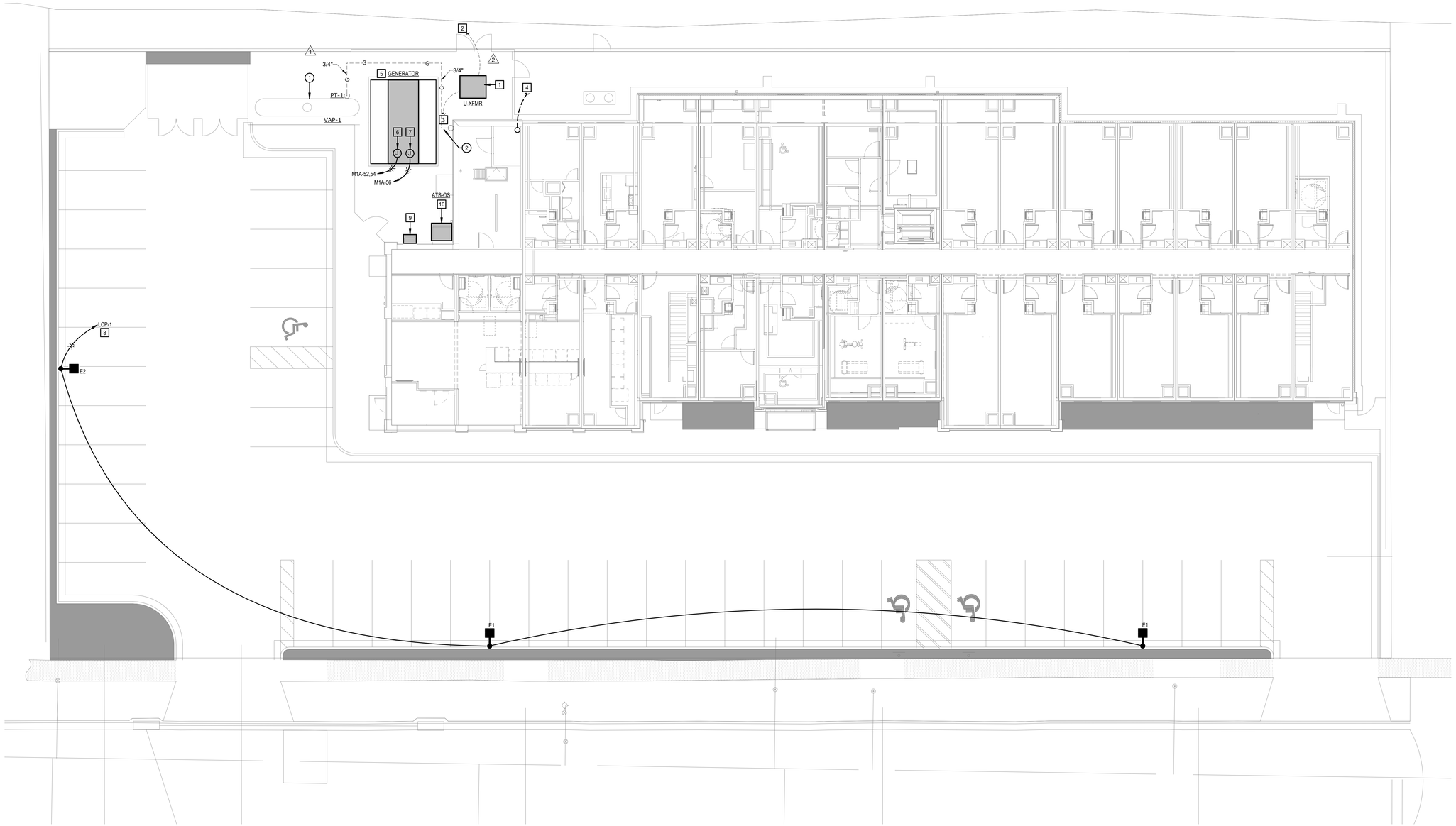
1. PAD MOUNTED UTILITY TRANSFORMER WITH INTEGRAL METER AND CT'S. PAD BY CONTRACTOR PER UTILITY STANDARDS. COORDINATE WITH UTILITY STANDARDS AND SERVICE REPRESENTATIVE PRIOR TO EXCAVATION.
2. PRIMARY FEEDER. PROVIDE (1) 4" CONDUIT.
3. SECONDARY FEEDER. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. PROVIDE (2) 4" CONDUIT FOR TELECOM SERVICE ENTRANCE ROUTED FROM IT ROOM TO PROPERTY LINE. COORDINATE REQUIREMENTS WITH OWNER SELECTED IT SERVICE PROVIDER. REFER TO SHEET E201 FOR EXACT LOCATION OF IT EQUIPMENT.
5. NEW PAD MOUNTED DIESEL GENERATOR. PAD TO SUPPORT GENERATOR AND ITS PLATFORMS. PROVIDE ALUMINUM ACCESS PLATFORMS AND STAIRS WITH HANDRAILS ON BOTH LONG SIDES OF GENSET TO PROVIDE ACCESS TO ALL GENSET ENCLOSURE DOORS. COMPLY WITH OSHA AND NFPA 70 & 110 REQUIREMENTS. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
6. ELECTRICAL CONNECTION FOR GENERATOR BLOCK HEATER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.
7. ELECTRICAL CONNECTION FOR GENERATOR BATTERY CHARGER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.
8. REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
9. MANUAL TRANSFER SWITCH AND TAP BOX. MOUNT ON UNISTRUT IN LOCATION SHOWN. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
10. PAD MOUNTED OPTIONAL STANDBY AUTOMATIC TRANSFER SWITCH 'ATS-OS'.

ELECTRICAL GENERAL NOTES:

1. ELECTRICAL UTILITY COMPANY IS OTTERTAIL. FURTHER REFERENCED ON THIS SHEET AS 'UTILITY'
2. COORDINATE ALL UTILITY REQUIREMENTS AND WORK PRIOR TO COMMENCING PROJECT.
3. PROVIDE #10AWG MINIMUM CONDUCTORS FOR ALL EXTERIOR CIRCUITS UNLESS OTHERWISE NOTED.
4. REFER TO CIVIL PLANS FOR ELECTRICAL PRIMARY CONDUIT AND TELECOM ROUTING OUTSIDE OF BUILDING LINE.
5. EXTERIOR LIGHT FIXTURES SHALL UTILIZE LIGHTING CONTROL TYPE #. REFER TO "LIGHTING CONTROL REQUIREMENTS AND DESCRIPTIONS" SCHEDULE FOR ADDITIONAL INFORMATION.

PLUMBING PLAN NOTES:

1. PROVIDE 2000 GALLON BURIED PROPANE TANK SYSTEM AND VAPORIZER. ENGAGE THE PROPANE SYSTEM INSTALLER TO PROVIDE A TURNKEY SYSTEM THAT DELIVERS 10 PSI PROPANE TO THE BUILDING. REFER TO SCHEDULES FOR PROPANE TANK AND VAPORIZER INFORMATION.
2. EXTEND 3/4" 10PSI LP GAS LINE BELOW GRADE TO PRESSURE REGULATOR AT BUILDING. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITES CONTRACTOR PRIOR TO INSTALLATION.




1 OVERALL MECHANICAL AND ELECTRICAL SITE PLAN
1" = 10'-0"

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Three Affiliated Tribes of North Dakota
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New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/26 | BP2.0R, ADD2.0 |
| 2 | 02/01/2026 | BP2.0R, ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## MECHANICAL AND ELECTRICAL SITE PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME201

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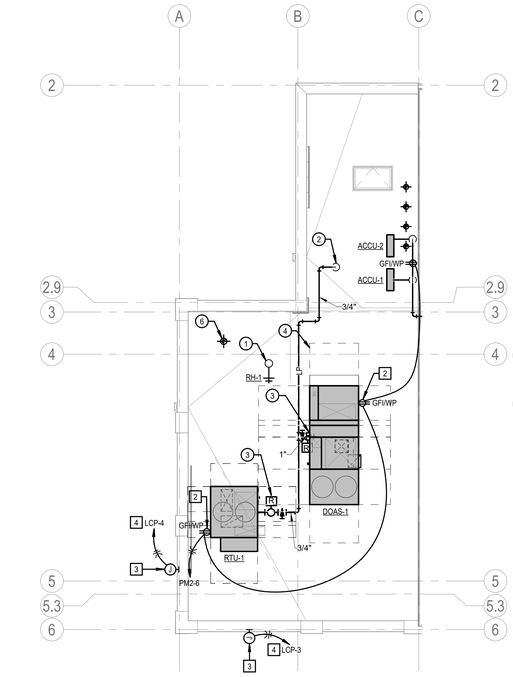
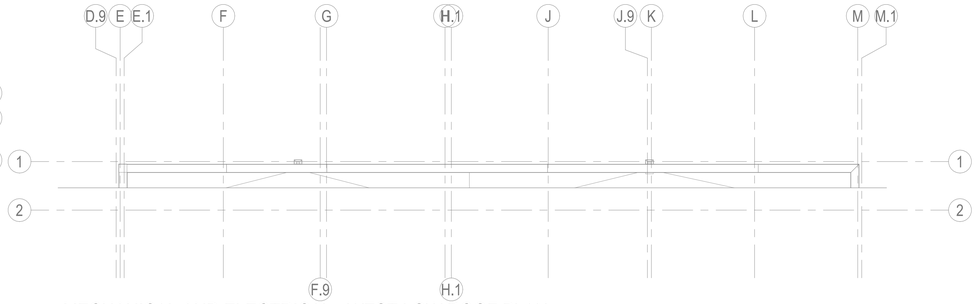
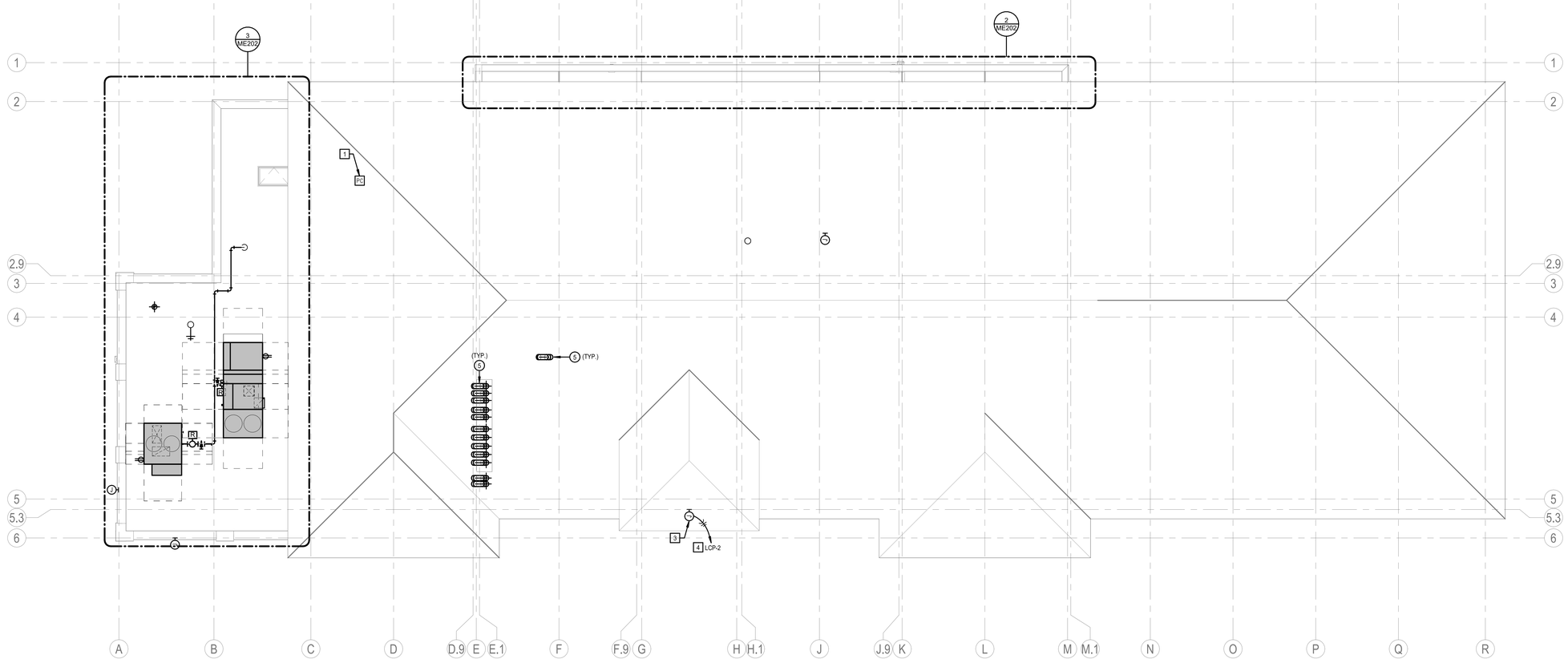



3 MECHANICAL AND ELECTRICAL - SOUTH LOW ROOF PLAN
1/8" = 1'-0"



2 MECHANICAL AND ELECTRICAL - WEST LOW ROOF PLAN
1/8" = 1'-0"




1 OVERALL MECHANICAL AND ELECTRICAL ROOF PLAN
1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. CAREFULLY COORDINATE ROUTING OF SERVICES WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES.
3. COORDINATE INSTALLATION AND PENETRATIONS OF ALL NEW SERVICES WITH STRUCTURAL PRIOR TO CUTTING.
4. EXTEND ALL CONDENSATE DRAINS TO NEAREST ROOF DRAIN.
5. PAINT ALL PVC PIPING ON ROOF TO PROVIDE FOR UV PROTECTION.
6. ALL SERVICES SHOWN HALF TONE ARE EXISTING.
7. PROVIDE LIGHTING PROTECTION SYSTEM PER SPECIFICATION AND MANUFACTURER WRITTEN REQUIRMENTS.

MECHANICAL PLAN NOTES:

1. 3/4" CW DOWN THRU THE ROOF.
2. 3/4" LP GAS DOWN THRU THE ROOF.
3. PROVIDE LP GAS REGULTOR. INLET PRESSURE IS 2 PSI AND OUTLET PRESSURE IS 7" TO 11" WC. COORDINATE LOAD WITH EQUIPMENT PROVIDED.
4. GAS PIPING SHOWN FOR CLARITY, NOT ACTUAL CONFIGURATION. COORDINATE INSTALLATION SUCH THAT THE PIPING DOES NOT BLOCK THE MAIN WALKING PATHWAY ON THE ROOF.
5. DRYER EXHAUST DUCT GOOSENECK. TERMINATE MINIMUM 24" ABOVE THE ROOFLINE.

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E201 FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.
2. REFER TO SHEET E101 FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

ELECTRICAL PLAN NOTES:

1. PHOTOCELL FOR EXTERIOR LIGHTING CONTROL. MOUNT ON ROOF AND AIM NORTH. INSTALL PER MANUFACTURER'S MOUNTING RECOMMENDATIONS. REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
2. RECEPTACLE PROVIDED WITH UNIT, WIRED BY ELECTRICAL CONTRACTOR.
3. ELECTRICAL CONNECTION TO BUILDING SIGNAGE. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL ELEVATIONS AND PRODUCT SUBMITTALS.
4. REFER TO LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

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Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | | |
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| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## OVERALL MECHANICAL & ELECTRICAL ROOF PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME202

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## VERTICAL PACKAGED TERMINAL A/C UNIT

| | DESIGNATION | VTAC-A | VTAC-B | VTAC-C | VTAC-1 | VTAC-2 | VTAC-3 | VTAC-4 | VTAC-5 | VTAC-6 | VTAC-7 | VTAC-8 | VTAC-9 | VTAC-10 | VTAC-11 | VTAC-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MANUFACTURER | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH | FRIEDRICH |
| | MODEL NO. | VHA09K50RC | VHA12K50RC | VHA18K50RC | VHA09K50RC | VHA24K10RC | VHA24K10RC | VHA18K50RC | VHA18K50RC | VHA12K50RC | VHA09K50RC | VHA18K50RC | VHA24K10RC | VHA18K50RC | VHA18K50RC | VHA18K50RC |
| | UNIT TYPE | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT | HP W/ BACKUP ELEC. HEAT |
| CAPACITY | AIRFLOW (CFM) | 360 | 420 | 560 | 360 | 580 | 580 | 560 | 560 | 420 | 360 | 560 | 580 | 560 | 560 | 560 |
| CAPACITY | EXTERNAL STATIC PRESSURE (W.C) | 0.3 | 0.4 | 0.4 | 0.4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| CAPACITY | OUTSIDE AIR CFM | 30 | 30 | 30 | 30 | 50 | 0 | 0 | 0 | 0 | 30 | 30 | 30 | 0 | 30 | 30 |
| CAPACITY | COOLING CAPACITY (MBH) | 9.4 | 11.2 | 17.8 | 9.4 | 22.6 | 22.6 | 18 | 18 | 11.2 | 10 | 17.8 | 22.6 | 17.8 | 17.8 | 17.8 |
| CAPACITY | E.E.R. / S.E.E.R2 | 12.3 | 12.3 | 12.1 | 11 | 12.1 | 12.1 | 12.1 | 12.1 | 12.3 | 11 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| CAPACITY | HEATING CAPACITY (KW) | 5 | 5 | 5 | 5 | 10 | 10 | 5 | 5 | 5 | 6.5 | 5 | 10 | 5 | 5 | 5 |
| CAPACITY | COP / HSPF2 | 6.3 | 6.3 | 6.7 | 6.3 | 6.7 | 6.7 | 6.7 | 6.7 | 6.3 | 6.3 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| ELEC/CONT | VOLTAGE/PHASE | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 | 208/1 |
| ELEC/CONT | MCA | 28.2 | 28.2 | 28.5 | 28.2 | 55.4 | 55.4 | 28.5 | 28.5 | 28.2 | 28.2 | 28.5 | 55.4 | 28.5 | 28.5 | 28.5 |
| ELEC/CONT | MOCP | 30 | 30 | 30 | 30 | 60 | 60 | 30 | 30 | 30 | 30 | 30 | 60 | 30 | 30 | 30 |
| ELEC/CONT | PANEL & CIRCUIT | RE: PANEL SCHEDULES | RE: PANEL SCHEDULES | RE: PANEL SCHEDULES | CT-1,3 | M1B-2,4 | M1B-1,3 | M1B-6,8 | M1B-5,7 | M1B-10,12 | M1B-9,11 | M1B-14,16 | M1B-13,15 | M1B-18,20 | M1B-17,19 | M2-1,3 |
| ELEC/CONT | WIRE & CONDUIT | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#4, (1)#10G., IN 1"C. | (3)#4, (1)#10G., IN 1"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#4, (1)#10G., IN 1"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. | (3)#10, (1)#10G., IN 1/2"C. |
| ELEC/CONT | OVERCURRENT DEVICE | 30A-2P CB | 30A-2P CB | 30A-2P CB | 30A-2P CB | 60A-2P CB | 60A-2P CB | 30A-2P CB | 30A-2P CB | 30A-2P CB | 30A-2P CB | 30A-2P CB | 60A-2P CB | 30A-2P CB | 30A-2P CB | 30A-2P CB |
| ELEC/CONT | DISCONNECT | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL |
| ELEC/CONT | CONTROL | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 | NOTE 4 |
| | REFERENCE DRAWING/DETAIL | M103 | M103 | M103 | M103 | M101 | M101 | M101 | M101 | M101 | M101 | M101 | M101 | M101 | M101 | M102 |
| | REMARKS | NOTE 2,3,5,6 | NOTE 2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 2,3,5,6 | NOTE 2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 1,2,3,5,6 | NOTE 1,2,3,5,6 |

NOTE 1: FURNISH UNIT WITH DRAIN PAN AND KIT.
NOTE 2: FURNISH UNIT WITH WALL SLEEVE AND BRACKET; MOUNT UNIT 12" ABOVE FINISHED FLOOR. COORDINATE WITH WALL CONSTRUCTION.
NOTE 3: FURNISH UNIT WITH ARCHITECTURAL ALUMINUM EXTERIOR LOUVER. COLOR BY ARCHITECT
NOTE 4: PROVIDE WITH WIRED THERMOSTAT CAPABLE OF BAS CONNECTION. PROVIDE UNIT WITH ENERGY MANAGEMENT THERMOSTAT WITH OCCUPANCY SENSOR AND HUMIDITY CONTROLS.
NOTE 5: PROVIDE WITH RETURN AIR GRILLE ACCESS PANEL.
NOTE 6: CONDENSATE OVERFLOW IS THROUGH THE WALL SLEEVE.

## FAN SCHEDULE

| | DESIGNATION | EF-A | EF-1 | EF-2 | EF-3 | EF-4 | EF-5 | EF-6 |
|---|---|---|---|---|---|---|---|---|
| | SERVICE | RESTROOM | STORM SHELTER | HOUSEKEEPING | LAUNDRY RESTRM | CARETAKER | KITCHEN | CUSTODIAN |
| | MANUFACTURER | PANASONIC | COOK | COOK | COOK | PANASONIC | COOK | COOK |
| | FAN TYPE | CEILING | INLINE CENTRIF. | INLINE CENTRIF. | INLINE CENTRIF. | CEILING | INLINE CENTRIF. | INLINE CENTRIF. |
| | MODEL | FV-0511VQC1 | GN-186 | GNVF-180 | GNVF-180 | FV-0511VQC1 | GNVF-700 | GNVF-180 |
| | WEIGHT (LBS) | 11.2 | 13 | 16 | 16 | 11.2 | 37 | 16 |
| UNIT DATA | CFM | 50 | 150 | 175 | 200 | 50 | 600 | 300 |
| UNIT DATA | STATIC PRESSURE | 0.5 | 0.75 | 0.75 | 0.75 | 0.5 | 0.75 | 0.75 |
| UNIT DATA | FAN RPM | -- | 1100 | 1557 | 1657 | -- | 1725 | 1557 |
| UNIT DATA | BRAKE HORSEPOWER | 10.6 W | 0.1 | 0.1 | 0.12 | 10.6 W | 0.22 | 0.1 |
| UNIT DATA | MOTOR HORSEPOWER | 0.18 | 0.04 | 0.013 | 0.013 | 0.18 | 0.33 | 0.013 |
| UNIT DATA | DRIVE | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT |
| ELECTRL./CONTROL DATA | VOLTAGE/PHASE | 120/1 | 120/1 | 120/1 | 120/1 | 120/1 | 120/1 | 120/1 |
| ELECTRL./CONTROL DATA | PANEL & CIRCUIT | NOTE 5 | INV-1 | M1A-50 | M1A-48 | NOTE 5 | M1A-51 | M1A-49 |
| ELECTRL./CONTROL DATA | WIRE & CONDUIT | (2)#12, #12G., 1/2"C. | (2)#12, #12G., 1/2"C. | (2)#12, #12G., 1/2"C. | (2)#12, #12G., 1/2"C. | (2)#12, #12G., 1/2"C. | (2)#12, #12G., 1/2"C. | (2)#12, #12G., 1/2"C. |
| ELECTRL./CONTROL DATA | OVERCURRENT DEVICE | 20A-1P CB | 15A-1P CB | 15A-1P CB | 15A-1P CB | 20A-1P CB | 15A-1P CB | 15A-1P CB |
| ELECTRL./CONTROL DATA | DISCONNECT | NOTE 4 | NOTE 1 | NOTE 1 | NOTE 1 | NOTE 4 | NOTE 1 | NOTE 1 |
| ELECTRL./CONTROL DATA | COMBINATION STARTER | - | - | - | - | - | - | - |
| ELECTRL./CONTROL DATA | CONTROL | NOTE 4 | ON 24/7 | ON 24/7 | ON 24/7 | NOTE 4 | NOTE 4 | ON 24/7 |
| ELECTRL./CONTROL DATA | DAMPER TYPE | BACKDRAFT | BACKDRAFT | BACKDRAFT | BACKDRAFT | BACKDRAFT | BACKDRAFT | BACKDRAFT |
| ELECTRL./CONTROL DATA | DAMPER VOLTAGE | -- | - | 2 | - | -- | - | - |
| | REFERENCE DRAWING/DETAIL | M103 | M101 | M101 | M101 | M101 | M101 | M102 |
| | REMARKS | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

NOTES:
1: PROVIDE MOTOR RATED TOGGLE SWITCH ADJACENT TO FAN.
2: DAMPER VOLTAGE TO BE 120, 24, OR 12 COORDINATE WITH THE CONTROL CONTRACTOR. DAMPER SHALL BE POWERED CLOSED, FAIL OPEN.
3: PROVIDE WITH FAN SPEED CONTROLER
4: CONTROL FAN VIA LIGHT SWITCH LOCATED IN SPACE.
5: CONNECT TO LIGHTING CIRCUIT WITHIN THE SAME SPACE.

## UNIT HEATER SCHEDULE - ELECTRIC

| | DESIGNATION | EUH-1 | EUH-2 | EUH-3 | EUH-4 | EUH-5 | EUH-6 | EUH-7 | EUH-8 | EUH-9 | EUH-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HEATER TYPE | CEILING | CEILING | CEILING | CEILING | CEILING | CEILING | CEILING | CEILING | CEILING | CEILING |
| | LOCATION | VESTIBULE I101 | VESTIBULE 101 | VESTIBULE | VESTIBULE 109 | CRAWL SPACE | CRAWL SPACE | CRAWL SPACE | CRAWL SPACE | CRAWL SPACE | CRAWL SPACE |
| | MOUNTING | CEILING | CEILING | CEILING | WALL | CEILING | CEILING | CEILING | CEILING | CEILING | CEILING |
| | MANUFACTURER | RAYWALL | RAYWALL | RAYWALL | RAYWALL | RAYWALL | RAYWALL | RAYWALL | RAYWALL | RAYWALL | RAYWALL |
| | MODEL | J3484A1 | J3484A1 | J3484A1 | F2FUHE05 | F2FUHE05 | F2FUHE05 | F2FUHE05 | F2FUHE05 | F2FUHE05 | F2FUHE05 |
| | WEIGHT (LBS) | 45 | 45 | 45 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| UNIT DATA | CFM | 600 | 600 | 600 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| UNIT DATA | FAN DRIVE | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT |
| UNIT DATA | HEATER KW | 4.0 | 4.0 | 4.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| UNIT DATA | AMPS | 11.1 | 11.1 | 11.1 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| UNIT DATA | VOLTAGE/PHASE | 208/3 | 208/3 | 208/3 | 208/3 | 208/3 | 208/3 | 208/3 | 208/3 | 208/3 | 208/3 |
| ELEC./CTRL DATA | PANEL & CIRCUIT | M1A-11,13,15 | M1A-10,12,14 | M1A-17,19,21 | M1A-16,18,20 | M1A-23,25,27 | M1A-22,24,26 | M1A-29,31,33 | M1A-28,30,32 | M1A-35,37,39 | M1A-34,36,38 |
| ELEC./CTRL DATA | WIRE & CONDUIT | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. | (4)#12, (1)#12G., IN 1/2"C. |
| ELEC./CTRL DATA | OVERCURRENT DEVICE | 15A-3P CB | 15A-3P CB | 15A-3P CB | 20A-3P CB | 20A-3P CB | 20A-3P CB | 20A-3P CB | 20A-3P CB | 20A-3P CB | 20A-3P CB |
| ELEC./CTRL DATA | DISCONNECT | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL | INTEGRAL |
| ELEC./CTRL DATA | CONTROL | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS | BMS RE: DWGS |
| | REFERENCE DRAWING/DETAIL | M101 | M101 | M101 | M101 | M100 | M100 | M100 | M100 | M100 | M100 |
| | REMARKS | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 |

NOTES:
1: PROVIDE UNIT WITH FIELD INSTALLED, RELAY FOR BMS CONTROL.
2: PROVIDE UNIT WITH FIELD INSTALLED, DISCONNECT.

## SPLIT SYSTEM A/C UNIT SCHEDULE

| | INDOOR UNIT | | |
|---|---|---|---|
| | DESIGNATION | AC-1 | AC-2 |
| UNIT DATA | MANUFACTURER | DAIKIN | DAIKIN |
| UNIT DATA | MODEL | FTXS30LVJU | FTXS30LVJU |
| UNIT DATA | SERVICE | IT | ELEVATOR SHAFT |
| UNIT DATA | CFM | 705 | 705 |
| UNIT DATA | TOTAL COOLING CAP (MBH) | 23.6 / 21.7 | 23.6 / 21.7 |
| UNIT DATA | TOTAL HEATING CAP @17°F (MBH) | - | - |
| UNIT DATA | WEIGHT (LBS) | 40 | 40 |
| ELEC. DATA | VOLTAGE/PHASE | 24V DC | 24V DC |
| ELEC. DATA | PANEL AND CIRCUIT | NOTE 5 | NOTE 5 |
| ELEC. DATA | WIRE AND CONDUIT | NOTE 4 | NOTE 4 |
| ELEC. DATA | OVERCURRENT DEVICE | NOTE 5 | NOTE 5 |
| ELEC. DATA | DISCONNECT | INTEGRAL | INTEGRAL |
| ELEC. DATA | CONTROLS | THERMOSTAT | THERMOSTAT |
| | REMARKS | 1, 2, 3, 4 | 1, 2, 3, 4 |
| | OUTDOOR UNIT | | |
| | DESIGNATION | ACCU-1 | ACCU-2 |
| UNIT DATA | MANUFACTURER | DAIKIN | DAIKIN |
| UNIT DATA | MODEL NO. | RKS30LVJU | RKS30LVJU |
| UNIT DATA | TOTAL COOLING CAP (MBH) | 23.6 / 21.7 | 23.6 / 21.7 |
| UNIT DATA | TOTAL HEATING CAP (MBH) | - | - |
| UNIT DATA | SEER | 19.3 | 19.3 |
| UNIT DATA | AMBIENT AIR TEMP (°F.) | 95 / -40 | 95 / -40 |
| UNIT DATA | WEIGHT (LBS) | 180.0 | 180.0 |
| ELEC. DATA | VOLTAGE/PHASE | 208/1 | 208/1 |
| ELEC. DATA | PANEL AND CIRCUIT | M1A-7,9 | M1A-6,8 |
| ELEC. DATA | WIRE AND CONDUIT | (3)#10,#10G., 1/2"C. | (3)#10,#10G., 1/2"C. |
| ELEC. DATA | MCA | 19.5 | 19.5 |
| ELEC. DATA | OVERCURRENT DEVICE | 30A-2P CB | 30A-2P CB |
| ELEC. DATA | DISCONNECT | INTEGRAL | INTEGRAL |
| | VIBRATION ISOLATION | NEOPRENE PAD | NEOPRENE PAD |
| | REMARKS | 1, 2, 3 | 1, 2, 3 |

NOTES:
1: INSULATE ALL REFRIGERANT LINES.
2: PROVIDE LOW AMBIENT KIT FOR RATED COOLING OPERATION DOWN TO -40°F.
3: PROVIDECONCRETE PAD AND QUICK SLING SUPPORT TO ELEVATE THE EQUIPMENT 24" ABOVE THE PAD. SECURE UNIT TO STAND AND SECURE STAND TO PAD.
4: PROVIDE CONTROL WIRING PER MANUFACTURERS RECOMMENDATIONS.
5: INDOOR UNIT CIRCUITED THROUGH OUTDOOR UNIT.

## ROOFTOP UNIT SCHEDULE - GAS HEAT

| | DESIGNATION | DOAS-1 | RTU-1 |
|---|---|---|---|
| UNIT DATA | MANUFACTURER | DAIKIN | DAIKIN |
| UNIT DATA | MODEL NUMBER | DPSC16B | DPSC10B |
| UNIT DATA | NOMINAL TONS | 15 | 15 |
| UNIT DATA | UNIT WEIGHT (LBS.) | 4,040 | 1,856 |
| UNIT DATA | AREA SERVED | CORRIDORS | LAUNDROMAT |
| SUPPLY FAN | SUPPLY AIRFLOW (CFM) | 3,500 | 5,000 |
| SUPPLY FAN | OUTSIDE AIRFLOW (CFM) | 3,500 | 500 |
| SUPPLY FAN | EXTERNAL STATIC PRESSURE (IN.W.C.) | 0.75 | 0.75 |
| SUPPLY FAN | TOTAL STATIC PRESSURE (IN.W.C.) | 1.4 | 2 |
| SUPPLY FAN | DIRECT | DIRECT | DIRECT |
| SUPPLY FAN | BRAKE HORSEPOWER | 1.07 | 2.46 |
| SUPPLY FAN | MOTOR HORSEPOWER | 3 | 4.3 |
| SUPPLY FAN | VFD | YES. ECM | YES. ECM |
| DX COOLING COIL | AMBIENT AIR (DB) | 93.6/67.3 | 93.6/67.3 |
| DX COOLING COIL | ENT. AIR (DB/WB) | 93.6/68.5 | 76.5/62.6 |
| DX COOLING COIL | LVG. AIR (DB/WB) | 57/54.6 | 56.9/55.7 |
| DX COOLING COIL | TOTAL COOLING CAPACITY (MBH) | 164.3 | 102.6 |
| DX COOLING COIL | SENSIBLE COOLING CAPACITY (MBH) | 64.8 | 97.7 |
| DX COOLING COIL | MINIMUM S.E.E.R.2 @ ARI | 13.4 | 13.4 |
| DX COOLING COIL | REFRIGERANT | R-32 | R-32 |
| DX COOLING COIL | NUMBER OF COMPRESSORS | 1 | 1 |
| DX COOLING COIL | STAGES OF COOLING | MODULATING | MODULATING |
| LP GAS HEAT | MINIMUM HEATING AIRFLOW (CFM) | 3,000 | 5,000 |
| LP GAS HEAT | ENT. AIR (DB) | -30 | 64.5 |
| LP GAS HEAT | LVG. AIR (DB) | 70 | 90 |
| LP GAS HEAT | HEATING INPUT (MBH) | 450 | 300 |
| LP GAS HEAT | HEATING OUTPUT (MBH) | 365 | 243 |
| LP GAS HEAT | STAGES / MODULATION | 10-100% | 10-100% |
| FILTERS | PRE-FILTER TYPE | 2"PLEATED | 2"PLEATED |
| FILTERS | MERV RATING | MERV 8 | MERV 8 |
| FILTERS | MAX FACE VELOCITY (FPM) | 500 | 500 |
| ELECT./CONT. | VOLTAGE/PHASE | 208V / 3PH | 208V / 3PH |
| ELECT./CONT. | SCCR (kAIC) | 10 | 10 |
| ELECT./CONT. | MCA | 82.4 | 65.8 |
| ELECT./CONT. | MOCP | 125 | 100 |
| ELECT./CONT. | PANEL & CIRCUIT | M1A-43,45,47 | M1A-42,44,46 |
| ELECT./CONT. | WIRE & CONDUIT | (4)#1, (1)#6G., 1-1/2"C. | (4)#1, (1)#8G., 1-1/2"C. |
| ELECT./CONT. | OVERCURRENT DEVICE | 125A-3P CB | 100A-3P CB |
| ELECT./CONT. | DISCONNECT | INTEGRAL | INTEGRAL |
| OPTIONS | CONTROL | NOTE 1 | NOTE 1 |
| OPTIONS | ECONOMIZER | ENTHALPY | ENTHALPY |
| OPTIONS | SMOKE DETECTOR | NOTE 2 | NOTE 2 |
| OPTIONS | RECEPTACLE | NOTE 3 | NOTE 3 |
| OPTIONS | ROOF CURB | NOTE 4 | NOTE 4 |
| | REFERENCE DRAWING/DETAIL | M102 | M102 |
| | REMARKS | 5 | 5 |

NOTES:
1: PROVIDE MANUFACTURER CONTROLLER WITH COMMUNICATION CARD SUITABLE FOR CONNECTION TO THE EXISTING BAS.
2: SYSTEM DUCT MOUNTED SMOKE DETECTOR IN RETURN DUCT, PROVIDED BY FIRE ALARM CONTRACTOR. CONNECT TO RTU FOR SHUTDOWN AS REQUIRED.
3: FURNISH WITH MANUFACTURER PROVIDED NON-POWERED RECEPTACLE.
4: PROVIDE VIBRATION ISOLATION ROOF CURB. KINETICS KSCR OR EQUAL.
5: PROVIDE HAIL GUARDS ON CONDENSER COILS.

## DUCTWORK SCHEDULE

| SERVICE | DUCT SHAPE | SMACNA REQUIREMENTS | | | LINER REQUIREMENTS | INSULATION REQUIREMENTS | OTHER REQUIREMENTS |
|---|---|---|---|---|---|---|---|
| | | CLASSIFICATION | SEAL CLASS | LEAKAGE CLASS | | | |
| LOW PRESSURE SUPPLY DUCTWORK CONNECTED TO SINGLE ZONE AIR HANDLING UNITS, SINGLE ZONE PACKAGED ROOFTOP UNITS, DOAS UNITS | RECTANGULAR | 2" WG POSITIVE | B | 12 | 1", 3LB DENSITY LINER | --- | PAINTABLE WHERE EXPOSED |
| | ROUND (CONCEALED) | 4" WG POSITIVE SPIRAL SEAM | B | 3 | --- | 1-1/2", 1.5 LB. FIBERGLASS BLANKET, VAPOR-BARRIER FACED, WITH HEAVY DUTY FOIL-SCRIM-KRAFT FACING | |
| | ROUND (EXPOSED) | 4" WG POSITIVE SPIRAL SEAM | B | 3 | --- | --- | PAINTABLE WHERE EXPOSED |
| RETURN/TRANSFER AIR DUCTWORK | RECTANGULAR | 2" WG NEGATIVE | B | 12 | 1", 3LB DENSITY LINER | --- | PAINTABLE WHERE EXPOSED |
| | ROUND | 2" WG NEGATIVE | A | 3 | --- | --- | PAINTABLE WHERE EXPOSED |
| GENERAL EXHAUST AIR DUCTWORK | RECTANGULAR | 2" WG NEGATIVE | B | 12 | --- | --- | PAINTABLE WHERE EXPOSED |
| | ROUND | 2" WG NEGATIVE | A | 3 | --- | --- | PAINTABLE WHERE EXPOSED |

## LOUVER SCHEDULE

| PLAN MARK | MANUFACTURER | MODEL NUMBER | SIZE (W x H) | MATERIAL | MINIMUM FREE AREA (SF) | CFM | MAX PRESSURE DROP (W.G.) | ARCH. LOUVER TYPE (REF. ARCH DWGS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| L-1 | RUSKIN | XP500WD | REF. ARCHITECTURAL | ALUMINUM | 0.75 | 250 | 0.05 | LVR-2 | 1, 2 |
| L-1A | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 0.75 | 250 | 0.05 | LVR-2 | 2, 3 |
| L-2 | RUSKIN | XP500WD | REF. ARCHITECTURAL | ALUMINUM | 0.54 | 150 | 0.05 | LVR-1 | 1, 2 |
| L-2A | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 0.54 | 150 | 0.05 | LVR-1 | 2, 3 |
| L-3 | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 6.7 | 3,000 | 0.05 | LVR-4 | 2 |
| L-4 | RUSKIN | XP500WD | REF. ARCHITECTURAL | ALUMINUM | 0.35 | 60 | 0.05 | LVR-3 | 1, 2 |
| L-4A | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 0.35 | 60 | 0.05 | LVR-3 | 2, 3 |
| L-5 | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 0.87 | 350 | 0.05 | LVR-1 | 2 |
| L-6 | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 0.69 | 225 | 0.05 | LVR-1 | 2 |
| L-7 | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 0.62 | 175 | 0.05 | LVR-1 | 2 |
| L-8 | RUSKIN | ELF375DX | REF. ARCHITECTURAL | ALUMINUM | 0.62 | 175 | 0.05 | LVR-1 | 2 |

NOTES:
1: PROVIDE ICC 500 WIND DRIVEN RAIN LOUVER SUITABLE FOR IN WALL INSTALLATION TO BE FLUSH WITH EXTERIOR OF SHTELTER WALL.
2: CONFIRM LOUVER COLOR WITH ARCHITECT'S SELECTION.
3: ARCHITECTURAL LOUVER TO BE INSTALLED IN FRONT OF STORM LOUVER. INSTALLATION TO BE FLUSH WITH FINISHED ARCHITECTURAL WALL.

## GRILLE, REGISTER & DIFFUSER SCHEDULE

| PLAN MARK | MANUFACTURER | MODEL NUMBER | SERVICE | MOUNT TYPE | VOLUME DAMPER | MATERIAL | COLOR | REMARKS |
|---|---|---|---|---|---|---|---|---|
| SD-1 | TITUS | OMNI | SUPPLY | LAY-IN | NOTE 5 | STEEL | WHITE | 4 |
| SD-2 | TITUS | 300RS | SUPPLY | SURFACE/DUCT | NOTE 5 | STEEL | NOTE 1 | 4 |
| SD-3 | TITUS | FL-20-2 | SUPPLY | SURFACE | NOTE 5 | ALUMINUM | NOTE 2 | 3,4 |
| RG-1 | TITUS | 355 RL | RETURN | LAY-IN/SURFACE | NO | STEEL | NOTE 1 | |
| EG-1 | TITUS | 355 FL | EXHAUST | LAY-IN/SURFACE | NOTE 5 | ALUMINUM | NOTE 1 | 4 |

NOTES:
1: FURNISH WITH WHITE FINISH FOR CEILING MOUNTED APPLICATIONS AND PAINTABLE FINISH FOR WALL MOUNTED APPLICATIONS.
2: FURNISH WITH END CAPS, BORDER TYPE 22, AND COLOR CHART FOR SELECTION BY INTERIORS.
3: PROVIDE INSULATED SHEET METAL PLENUM. PREMANUFACTUERED PRODUCT IS ACCEPTABLE WHERE SPACE PERMITS.
4: FURNISH WITH REMOTE DAMPER ACTUATOR FOR INACCESSIBLE CEILING APPLICATIONS.
5: PROVIDE MANUAL BALANCING DAMPER IN BRANCH DUCTWORK FOR EACH DIFFUSER.


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Owner


# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

# MECHANICAL AND ELECTRICAL - SCHEDULES

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME301


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PROJECT NAME:
ADDRESS OR LOCATION \ NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:

2516701 Parshall Hotel
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## BACKFLOW PREVENTER SCHEDULE

| APPLICATION | TYPE | SIZE | SHEET | REMARKS |
|---|---|---|---|---|
| DOM. WTR SUPPLY | RPZ | 2-1/2" | P101 | 1 |
| FIRE PROTECTION | DOUBLE CHECK | 6" | P101 | 1 |
| OVEN | DOUBLE CHECK (WATTS LF007) | NOTE 3 | P104 | 1 |
| ICE/COFFE MAKER | DOUBLE CHECK (WATTS LF007) | 1/2" | P100 | 1 |

NOTES:
1: PROVIDE TESTABLE DEVICE
2: COORDINATE SIZE AND LOCATION WITH IRRIGATION CONTRACTOR
3: COORDINATE SIZE WITH OVEN CONNECTION. REFER TO KEC FOR ADDITIONAL INFORMATION.

## DOMESTIC WATER HEATER - PROPANE

| DESIGNATION | | DWH-1 | DWH-2 | DWH-3 | DWH-4 |
|---|---|---|---|---|---|
| UNIT DATA | MANUFACTURER | LOCHINVAR | LOCHINVAR | LOCHINVAR | LOCHINVAR |
| | MODEL | SWR200N | SWR200N | SWR200N | SWR200N |
| | SERVICE | DOM. HOT WTR | DOM. HOT WTR | DOM. HOT WTR | DOM. HOT WTR |
| | CAPACITY (GALLONS) | 90 | 90 | 90 | 90 |
| | RECOVERY @ 100°F RISE (GPH) | 232 | 232 | 232 | 232 |
| | OUTLET TEMP. (°F) | 140 | 140 | 140 | 140 |
| | INPUT (MBH) | 199 | 199 | 199 | 199 |
| | EFFICIENCY (%) | 96 | 96 | 96 | 96 |
| ELEC./CONTROL | VOLTS/PHASE | 120/1 | 120/1 | 120/1 | 120/1 |
| | PANEL & CIRCUIT | M1A-1 | M1A-2 | M1A-3 | M1A-4 |
| | WIRE & CONDUIT | (2)#12, (1)#12G., 1/2"C. | (2)#12, (1)#12G., 1/2"C. | (2)#12, (1)#12G., 1/2"C. | (2)#12, (1)#12G., 1/2"C. |
| | OVERCURRENT DEVICE | 20A/1P CB | 20A/1P CB | 20A/1P CB | 20A/1P CB |
| | DISCONNECT | 1 | 1 | 1 | 1 |
| REFERENCE DRAWING/DETAIL | | P101 | P101 | P101 | P101 |
| REMARKS | | 2 | 2 | 2 | 2 |

NOTES:
1: PROVIDE MOTOR RATED TOGGLE SWITCH.
2: PROVIDE WITH COMMUNICATION CARD FOR CONNECTION TO BAS

## DRAIN SCHEDULE

| MARK | MANUFACTURER/ MODEL | DESCRIPTION |
|---|---|---|
| FD-1 | WADE W-1100-STD-6 | CAST IRON DRAIN WITH ADJUSTABLE TOP AND 6" NICKEL BRASS STRAINER WITH VANDAL RESISTANT SCREWS. PROVIDE WITH PROSET TRAP GUARD BY PROVENT SYSTEMS INC. |
| FD-2 | WADE W-2370-5 | 12"X12" DEEP SUMP FLOOR DRAIN. PROVIDE WITH PROSET TRAP GUARD BY PROVENT SYSTEMS INC. |
| DS-1 | WADE W-3940 | CAST BRONZE DOWNSPOUT NOZZLE WITH NO-HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. |
| TD-1 | STRIEM TT-10 | POLYETHYLENE TRENCH DRAIN WITH REMOVABLE, CORROSION-RESISTANT PRIMARY FILTER SCREEN AND SECONDRY SCREEN. MOUNTED ON SLAB. 4" PLAIN END OUTLET |
| TD-2 | STRIEM TT-3 | POLYETHYLENE TRENCH DRAIN WITH REMOVABLE, CORROSION-RESISTANT PRIMARY FILTER SCREEN AND SECONDRY SCREEN. MOUNTED ON SLAB. 4" PLAIN END OUTLET |

NOTES:
1: REFER TO PLANS FOR OUTLET SIZES

## DOMESTIC WATER EXPANSION TANK SCHEDULE

| DESIGNATION | | ET-1 |
|---|---|---|
| UNIT | MANUFACTURER | ELBI |
| | MODEL | DXT-80 |
| | SERVICE | DOM. HOT WATER |
| UNIT DATA | MIN. TEMP. (°F) | 40 |
| | MAX. TEMP. (°F) | 140 |
| | LINE PRESSURE (PSIG) | 35 |
| | MAX. PRESSURE (PSIG) | 125 |
| | TANK SIZE (GAL) | 20 |
| | ACCEPTANCE (GAL) | 16 |
| | HEIGHT (IN.) | 27 |
| | DIAMTER (IN.) | 15.5 |
| | WEIGHT (LBS.) | 27 |
| REFERENCE DRAWING/DETAIL | | P101/ ME402 |
| REMARKS | | |

## PROPANE TANK SCHEDULE

| DESIGNATION | PT-1 |
|---|---|
| MANUFACTURER | - |
| MODEL | - |
| CAPACITY (GALLONS) | 2000 |
| USEABABLE CAPACITY (GALLONS) | 1600 |
| HEIGHT (IN.) | 78" ⚠1 |
| DIAMTER (IN.) | 46.5 |
| WEIGHT (LBS.) | 3550 |
| REFERENCE DRAWING/DETAIL | ME201 |
| REMARKS | 1,2,3,4 ⚠ |

1: PROVIDE WITH COATING FOR BURIED APPLICATION. MANHOLE ACCESS, CATHODIC PROTECTION AND ANCHORS AS NEEDED TO ENSURE STABILITY
2: ASME AND NFPA 58 COMPLIANT.
3: VACUUM PRE-PURGED TANK.
4: ENGAGE THE PROPANE TANK INSTALLER TO BURY THE TANK AND ENSURE IT IS PROPERLY ANCHORED AND PIPED TO THE ASSOCIATED VAPORIZER.

⚠

## VAPORIZER - PROPANE

| DESIGNATION | | VAP-1 |
|---|---|---|
| UNIT DATA | MANUFACTURER | |
| | MODEL | ⚠1 TX-50 |
| | SERVICE | PROPANE SYSTEM |
| | PEAK LOAD (MBH) | 1600 |
| | EXPECTED CONTINUOUS LOAD (MBH) | 800 |
| | PRESSURE (PSI) | 10 |
| | KW | 5.9 ⚠1 |
| ELEC./CONTROL | VOLTS/PHASE | 208/3 |
| | AMPS | 16.4 ⚠1 |
| | PANEL & CIRCUIT | M1B-41,43,45 |
| | WIRE & CONDUIT | (4)#10,(1)#10G.,3/4" C. |
| | OVERCURRENT DEVICE | 25A-3P CB |
| | DISCONNECT | 30A, NF, NEMA 3R |
| REFERENCE DRAWING/DETAIL | | ME 201 |
| REMARKS | | 1 ⚠1 |

NOTES
1: ASME COMPLIANT ⚠

## PIPE INSULATION SCHEDULE - PLUMBING

| SERVICE | PIPE SIZE | INSULATION |
|---|---|---|
| DOMESTIC COLD WATER | 1/2" - 2" | 1/2" FIBERGLASS, ASJ |
| | 2-1/2" AND LARGER | 1" FIBERGLASS, ASJ |
| DOMESTIC HOT WATER<br>RECIRCULATING HOT WATER | 1/2" - 1-1/2"<br>1-1/2" AND LARGER | 1-1/2" FIBERGLASS, ASJ<br>2" FIBERGLASS, ASJ |
| EXPOSED FIXTURE WASTETRAPS AND DOMESTIC HOT WATER AT HANDICAPPED ACCESSIBLE SINKS AND LAVATORIES | ALL | TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER OVER 1/2" FIBERGLASS INSULATION |
| ROOF DRAIN BODIES<br>ROOF DRAIN PIPING | ALL | 1" FIBERGLASS, ASJ |

NOTE: FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE RIGID FOAM INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.

## INTERCEPTOR SCHEDULE

| MARK | MANUFACTURER/ MODEL | DESCRIPTION |
|---|---|---|
| GI-1 | SCHIER GB-50 | 75 GPM, 287 LBS GREASE CAPACITY AND GALLON SOLIDS CAPACITY INTERCEPTOR. |

NOTES:
1: REFER TO PLANS FOR OUTLET SIZES. INSTALL PER MANUFACTURE GUIDELINES

## WATER SOFTENER SCHEDULE

| DESIGNATION | | WS-1 |
|---|---|---|
| UNIT DATA | LOCATION | WATER ROOM |
| | MANUFACTURER | CULLIGAN |
| | MODEL | CTM-150 |
| | CONFIGURATION | DUPLEX |
| | PEAK DEMAND (GPM) | 76 |
| | CONTINUOUS DEMAND (GPM) | 59 |
| | MAX OPERATING PRESSURE (PSI) | 125 |
| | BRINE TANK SIZE (IN.) | 24X50 |
| | NORMAL PRESSURE DROP (PSI) | 10.82 |
| ELEC./ CONTROL | VOLTS/PHASE | 120/1 |
| | PANEL & CIRCUIT | M1A-40 |
| | WIRE & CONDUIT | (2)#12, (1)#12G., IN 1/2"C. |
| | OVERCURRENT DEVICE | 20A-1P CB |
| | DISCONNECT | RECEPTACLE |
| REFERENCE DRAWING/DETAIL | | P101 |
| REMARKS | | 1 |

NOTES:
1: PROVIDE WITH COMMUNICATION CARD FOR CONNECTION TO BAS

## DIGITAL THERMOSTATIC MIXING VALVE

| DESIGNATION | | TMV-1 |
|---|---|---|
| UNIT DATA | LOCATION | WATER ROOM |
| | MANUFACTURER | LEONARD |
| | MODEL | M-PNV-125-LF |
| | MIN GPM | 0.3 |
| | PEAK DEMAND GPM | 25 |
| | SYSTEM MAX PRESSURE DROP | 5 |
| | OUTLET TEMP. (°F) | 120 |
| ELEC. DATA | VOLTAGE/PHASE | 120/1 |
| | PANEL & CIRCUIT | M1A-41 |
| | WIRE & CONDUIT | (2)#12, (1)#12G., IN 1/2"C. |
| | OVERCURRENT DEVICE | 20A-1P CB |
| | DISCONNET | RECEPTACLE |
| REFERENCE DRAWING/DETAIL | | P101 |
| REMARKS | | 1, 2 |

NOTES:
: FURNISH ONLY MANUFACTURED ASSEMBLY SYSTEM WITH PRE-PIPED CHECK VALVES AND BALL VALVES AND CONNECTIONS TO HOT WATER, COLD WATER AND RECIRULATION.
2: FURNISH WITH BMS CONNECTIVITY

## DOMESTIC WATER PUMP SCHEDULE

| DESIGNATION | | RCP-1 |
|---|---|---|
| UNIT DATA | MANUFACTURER | BELL & GOSSETT |
| | LOCATION | JANITOR CLOSET |
| | MODEL NO. | NBF-36 |
| | PUMP TYPE | INLINE |
| | GPM | 7.5 |
| | PUMP HEAD (FT.) | 20 |
| | PRESSURE BOOST (PSI) | --- |
| | MOTOR HORSEPOWER | 1/6 |
| | MOTOR RPM | 1725 |
| ELEC./CONTROL DATA | VOLTAGE/PHASE | 120/1 |
| | PANEL & CIRCUIT | M1A-5 |
| | WIRE & CONDUIT | (2)#12, (1)#12G., IN 1/2"C. |
| | OVERCURRENT DEVICE | 15A-1P CB |
| | DISCONNECT | TOGGLE SWITCH |
| | STARTER | -- |
| | COMBINATION STARTER | -- |
| | CONTROL | BAS |
| REFERENCE DRAWING/DETAIL | | P101 |
| REMARKS | | -- |

## PLUMBING FIXTURE SCHEDULE

| MARK | USE | MFGR./ MODEL | DESCRIPTION | FITTINGS MANUFACTURER/MODEL | FITTINGS DESCRIPTION | NOTE | PIPING CONNECTIONS CW | HW | SAN | VENT |
|---|---|---|---|---|---|---|---|---|---|---|
| WC-1 | WATERCLOSET | GERBER GVP31518 VIPER | ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNT, TANK TYPE, 1.6 GPF. | PROFLO PFTSWEC2000 | ELONGATED SEAT: SOLID PLASTIC, CLOSED FRONT, WITH COVER. | --- | 1/2" | --- | 4" | 2" |
| L-1 | UNIT/CARETAKER LAVATORY | GERBER G0012760 | ADA COMPLIANT LAVATORY: 20-1/2"X17-1/8"X7-1/2", WHITE VITREOUS CHINA, UNDERMOUNT FRONT OVERFLOW, | GERBER G004002 LEONARD LF-170 | SINGLE HANDLE LAVATORY FAUCET, 1.2 GPM MAX FLOW, CERAMIC DISC CARTRIDGE, SINGLE HOLE MOUNT, CHROME FINISH ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE. | 1,2,3 | 1/2" | 1/2" | 2" | 1-1/2" |
| L-2 | PUBLIC LAVATORY | AMERICAN STANDARD DECORUM | ADA COMPLIANT WALL HUNG LAVATORY WITH CENTER HOLE, ADA COMPLIANT, WHITE VITREOUS CHINA | GERBER G004002 LEONARD LF-170 | SINGLE HANDLE LAVATORY FAUCET, 1.2 GPM MAX FLOW, CERAMIC DISC CARTRIDGE, SINGLE HOLE MOUNT, CHROME FINISH ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE. | 1,2,3 | 1/2" | 1/2" | 2" | 1-1/2" |
| SH-1 | UNIT SHOWER | MINCEY MARBLE SP-32-60-0S-SF-RENO | CAST MARBLE SHOWER BASE: NON-POROUS, ONE-PIECE FLANGED CAST MARBLE SHOWER BASE WITH A GEL-COAT FINISH, INTEGRAL FRONT CURB AND OFF SET DRAIN. | GERBER G00G9154TC | SINGLE HANDLE SHOWER ONLY TRIM KIT & CERAMIC DISC CARTRIDGE CHROME FINISH, 1.75 GPM MAX | --- | 1/2" | 1/2" | 2" | 1-1/2" |
| SH-2 | ADA UNIT SHOWER | MINCEY MARBLE RI-3162-C-SF | ROLL-IN CAST MARBLE SHOWER BASE: NON-POROUS, ONE-PIECE FLANGED CAST MARBLE SHOWER BASE WITH A GEL-COAT FINISH, FLUSH ENTRANCE AND CENTER DRAIN, | GERBER D461424 | HAND SHOWER AND ADA GRAB BAR/ SLIDE BAR, 24" BAR LENGTH, 1.75 GPM MAX PUSH BUTTIN FOR PAUSE, INTEGRAL CHECK VALVE, ADA COMPLIANT, CHROME FINISH | --- | 1/2" | 1/2" | 2" | 1-1/2" |
| B-1 | CARETAKER BATHTUB | AMERICAN STANDARD CAMBRIDGE 5' 2460.002 GERBER G00GS52 | BATHING POOL: NOMINAL DIMENSIONS 60"X32"X17-3/4"AMERICAST BRAND ENGINEERED MATERIAL, FULL SLIP-RESISTANT, TUB AND SHOWER FAUCET ROUGH-IN VALVE ASSEMBLY | GERBER G00G9155TC | SINGLE HANDLE TUB & SHOWER TRIM KIT & CERAMIC DISC CARTRIDGE CHROME FINISH, 1.75 GPM MAX | --- | 1/2" | 1/2" | 2" | 1-1/2" |
| S-1 | CARETAKER SINK | ELKAY DXUH2416 INSINKERATOR DRAIN STOP | SINK: 26-1/2" X 18-1/2" SINGLE BOWL, 18-GAUGE TYPE STAINLESS STEEL, SINGLE BOWL UNDERMOUNT, FULLY UNDERCOATED, SATIN FINISH, 8" BOWL DEPTH 1/2 HP GARBAGE DISPOSAL ELKAY D1125 | GERBER G0040164 | FAUCET: SINGLE LEVER HANDLE, PUL-DOWN KITCHEN FAUCET SPOUT CHROME FINISH, 1.75 GPM MAX | 1,2,3 | 1/2" | 1/2" | 2" | 1-1/2" |
| S-2 | LAUNDROMAT SINK | ELKAY EFRU211510T DRAIN STOP | CROSSTOWN 23-1/2"X18-1/4"X10" SINGLE BOWL UNDERMOUNT SINK, 16 GAUGE 304 STAINLESS STEEL ELKAY LK35 | GERBER GC04455 LEONARD LF-170 | TWO HANDLE CENTERSET FAUCET, .5 GPM MAX, 11" SPOUT HEIGHT, 3 HOLE ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE. | 1,2,3 | 1/2" | 1/2" | 2" | 1-1/2" |
| JS-1 | JANITOR SINK | STERN WILLIAMS SB-802 | PRECAST TERRAZO RECEPTOR, FLOOR MOUNTED, 24"X24" WITH BRASS DRAIN, STAINLESS STEEL STRAINER, AND TILING FLANG ON TWO SIDES. | STERN WILLIAMS T-15 VB LEONARD LF-170 | SERVICE SINK FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE, 3/4" HOSE THREAD SPOUT, AND POLISHED CROME FINISH. ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE. | --- | 3/4" | 3/4" | 3" | 2" |
| LU-1 | LAUNDRY UTILITY SINK | MUSTEE 17 UTILATUB | DURASTONE LAUNDRY TUBS WITH BUILT-IN SCRUB BOARD, 19-GALLON CAPACITY, LEAKPROOF ACCOMMODATES DUAL-HANDLE FAUCET WITH 4"CENTERS | GERBER GC04455 LEONARD LF-170 | TWO HANDLE CENTERSET FAUCET, .5 GPM MAX, 11" SPOUT HEIGHT, 3 HOLE ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE. | --- | 3/4" | 3/4" | 2" | 1-1/2" |
| EDF-1 | DRINKING FOUNTAIN | ELKAY LZSTL8WSLK | ADA COMPLIANT, BI-LEVEL BARRIER FREE ELECTRIC WATER COOLER PROVIDING 8 GPH OF 50 DEG WATER AT 90 DEGREE AMBIENT. NON-CORROSIVE STAINLESS STEEL BASIN AND PANELS. SENSOR OPERATED BOTTLE FILLER ABOVE ADA FOUNTAIN. | --- | --- | --- | 1/2" | --- | 2" | 1-1/2" |
| EDF-2 | DRINKING FOUNTAIN | ELKAY LZS8WSLK | ADA COMPLIANT, BI-LEVEL BARRIER FREE ELECTRIC WATER COOLER PROVIDING 8 GPH OF 50 DEG WATER AT 90 DEGREE AMBIENT. NON-CORROSIVE STAINLESS STEEL BASIN AND PANELS. SENSOR OPERATED BOTTLE FILLER ABOVE ADA FOUNTAIN. | --- | --- | --- | 1/2" | --- | 2" | 1-1/2" |
| RH-1 | ROOF HYDRANT | HOEPTNER 2131RE | FREEZE-PROOF YARD HYDRANT. NO WINTERIZATION REQUIRED. LOCKABLE. | --- | --- | --- | 1" | --- | --- | --- |
| WH-1 | WALL HYDRANT | WADE 8600-175 | WALL HYDRANT WITH ANTI-SIPHON | --- | --- | --- | 3/4" | --- | --- | --- |

NOTES:
1: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
2: PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
3: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.

## PLUMBING PUMP SCHEDULE

| DESIGNATION | | SP-1 | SP-2 | SP-3 |
|---|---|---|---|---|
| UNIT DATA | SERVES | MAIN ELEVATORS | FOUNDATION DRAIN | FOUNDATION DRAIN |
| | MANUFACTURER | WEIL | WEIL | WEIL |
| | MODEL NO. | 1411 | 1411 | 1411 |
| | PUMP TYPE | SUBMERSIBLE | SUBMERSIBLE | SUBMERSIBLE |
| | GPM | 50 | 50 | 50 |
| | PUMP HEAD (FT.) | 20 | 20 | 20 |
| | MOTOR HORSEPOWER | 1/2 | 1/2 | 1/2 |
| | MOTOR RPM | 1750 | 1750 | 1750 |
| ELEC./CONTROL DATA | VOLTAGE/PHASE | 120/1 | 120/1 | 120/1 |
| | PANEL & CIRCUIT | M1B-27 | M1B-28 | M1B-29 |
| | WIRE & CONDUIT | (2)#12, (1)#12G., IN 1/2"C. | (2)#12, (1)#12G., IN 1/2"C. | (2)#12, (1)#12G., IN 1/2"C. |
| | OVERCURRENT DEVICE | 20A-1P CB | 20A-1P CB | 20A-1P CB |
| | DISCONNECT | NOTE 4 | NOTE 4 | NOTE 4 |
| | STARTER | CONTROL PANEL | CONTROL PANEL | CONTROL PANEL |
| | COMBINATION STARTER | - | - | - |
| | CONTROL | NOTE 1 | NOTE 1 | NOTE 1 |
| REFERENCE DRAWING/DETAIL | | P001 | P001 | P001 |
| REMARKS | | 2,3 | 2,3 | 2,3 |

NOTES:
1 FURNISH WITH HIGH WATER ALARM CONTROL PANEL WITH FLOAT ACTIVATION AND ALARM RELAY FOR CONNECTION TO BMS. PROVIDE PANEL FOR 120/1 HARD WIRED POWER
2 PROVIDE SUMP BASIN AND GRATE BASIN COVER. BASIN TO BE 36" DEEP.
3 CONTROL PANEL SHALL BE PROVIDED WITH DISCONNECT, STARTER, LOW VOLTAGE CONTROL TERMINALS, ETC. FOR CONTROL AND MONITORING OF SUMP PUMP.
4 PROVIDE MELTRIC PLUG/SIMPLEX RECEPTACLE AND CABLE DISCONNECT IN PIT.

## PIPING MATERIAL SCHEDULE - PLUMBING

| APPLICATION | SIZE | LOCATION | PIPE MATERIAL |
|---|---|---|---|
| DOMESTIC WATER | 2" AND SMALLER | ABOVE GROUND | HARD COPPER TUBE, ASTM B88, TYPE L; CAST OR WROUGHT COPPER SOLDER-JOINT FITTINGS; AND BRAZED JOINTS.<br>OR<br>PEX-A PIPE WITH ASTM F1960 FITTINGS (FOR USE INSIDE DWELLING UNITS ONLY; NOT INTENDED FOR BUILDING MAINS). PEX-B PIPE AND FITTINGS NOT ALLOWED. |
| DOMESTIC WATER | 2-1/2" AND LARGER | ABOVE GROUND | HARD COPPER TUBE, ASTM B88, TYPE L; CAST OR WROUGHT COPPER SOLDER-JOINT FITTINGS; AND BRAZED JOINTS. |
| SOIL/WASTE/VENT | ALL SIZES | BELOW GROUND | SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS. |
| SOIL/WASTE/VENT | ALL SIZES | ABOVE GROUND | SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS. *****WRAP PVC LOCATED IN RETURN AIR PLENUMS WITH 1" MINERAL FIBER INSULATION WITH ALL SERVICE JACKET. |
| GAS | ALL SIZES | BELOW GROUND | POLYETHYLENE YELLOW GAS (ASTM D2513) PIPE WITH HEAT FUSED JOINTS. |
| GAS | ALL SIZES | ABOVE GROUND | SCHEDULE 40 BLACK STEEL PIPE AND SCREWED OR WELDED FITTINGS. WELDED FITTINGS MUST BE USE WHERE PIPING IS INSTALLED IN CONCEALED LOCATIONS. PROVIDE CORROSION PROTECTION FOR ALL PORTIONS OF GAS PIPING THAT ARE IN CONTACT WITH EARTH, ATMOSPHERE AND/OR MATERIALS THAT COULD CAUSE CORROSION. PROVIDE IN ACCORDANCE WITH NFPA 54 AND ALL LOCAL REQUIREMENTS. |


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Project Number: 251670

Headwaters Development
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Albertville, MN 55301
Boelter
Foodservice Design, Equipment & Supply
boelter.com


Consultants

Mandan, Hidatsa and Arikara Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

# MECHANICAL AND ELECTRICAL - SCHEDULES

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME302

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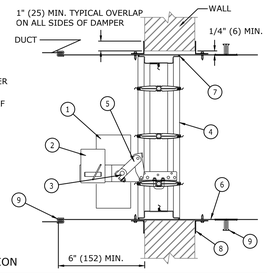
PROJECT NAME: Parshall Hotel
ADDRESS / LOCATION \ NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:
25167.01 Parshall Hotel
Author: Boelter Inc\Documents - Revit\25167.01_Parshall Hotel_Central_Sbi.rvt
Bosley, Charles Wednesday, April 29, 2026 10:56:40 AM
Bosley, Charles Friday, May 1, 2026 4:20:56 PM

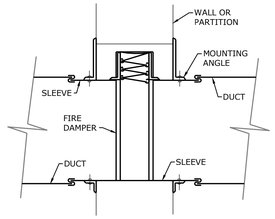
VERTICAL INSTALLATION

| ITEM. | DESCRIPTION |
|---|---|
| 1. | ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. RUSKIN'S UL LISTED FIRE DAMPER ACTUATORS MAY BE FIELD INSTALLED IF PROPERLY LABELED. SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS. |
| 2. | OPTIONAL FIRESTAT OR SP100 |
| 3. | AUXILLARY OPERATING JACK SHAFT |
| 4. | DAMPER |
| 5. | OVER CENTER LOCK |
| 6. | SLEEVE |
| 7. | CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME |
| 8. | PFMA OR CONVENTIONAL MOUNTING ANGLES |
| 9. | S-JOINT/DUCT MATE, SLEEVE TO DUCT |

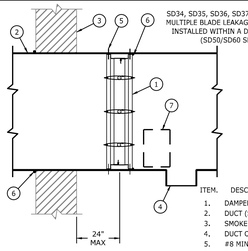



TYPICAL INSTALLATION

## FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



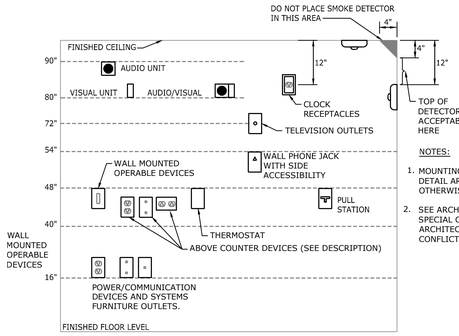

## FIRE DAMPER DETAIL
NOT TO SCALE




SD34, SD35, SD36, SD37, SD50, OR SD60 MULTIPLE BLADE LEAKAGE RATED DAMPER INSTALLED WITHIN A DUCT OR SLEEVE (SD50/SD60 SHOWN)

| ITEM. | DESCRIPTION |
|---|---|
| 1. | DAMPER |
| 2. | DUCT (SLEEVE) |
| 3. | SMOKE BARRIER |
| 4. | DUCT OUTLET |
| 5. | #8 MIN FASTENER |
| 6. | CAULKING MATERIAL |
| 7. | OPERATOR/ACTUATOR |

## SMOKE DAMPER DETAIL
NO SCALE




NOTES:

1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS SHOWN OTHERWISE ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.

VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICES) DEVICE 80" ABOVE HIGHEST FLOOR LEVEL OR 6" BELOW CEILING WHICH EVER IS LOWER (ADA 2010). BOTTOM OF DEVICE 80" AFF (NFPA).

AUDIO UNIT (FIRE ALARM NOTIFICATION DEVICE) TOP OF UNIT AT LEAST 90" AFF OR 6" BELOW CEILING WHICH EVER IS LOWER (NFPA).

AUDIO/VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICE) LOCATION DETERMINED BY VISUAL UNIT REQUIREMENTS (NFPA).

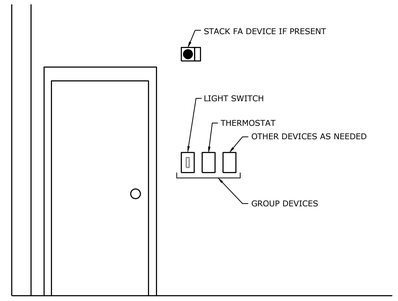
PULL STATION (FIRE ALARM ACTIVATION DEVICE) HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) ADA 2010. OPERABLE PART (T-HANDLE) SHALL BE NOT LESS THAN 42" AFF (NFPA).

WALL MOUNTED OPERABLE DEVICES

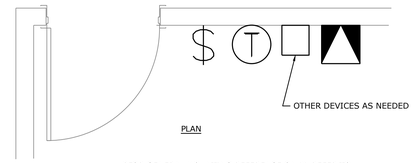
OPERABLE DEVICES SHALL BE LOCATED 48" AFF. TO THE TOP OF OPERABLE PORTION OF DEVICE. WALL MOUNTED TELEPHONES WITH SIDE ACCESSIBILITY MAY BE MOUNTED UP TO 54" AFF. WALL MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- ADJUSTABLE THERMOSTATS OR C02 SENSORS
- LIGHTING SWITCHES/DIMMERS/CONTROLS
- PUSH BUTTONS
- OTHER CONTROL OR "CALL" DEVICES

POWER/COMMUNICATION DEVICES:

OUTLETS SHALL BE LOCATED 16" AFF TO THE BOTTOM OF THE BOX.
*ABOVE COUNTER DEVICES (PLAN DESIGNATION ⊟⊟★ ) SHALL BE LOCATED AT 44" TO THE TOP OF THE BOX, MOUNTED VERTICALLY UNLESS ABOVE CASEWORK. WHEN ABOVE CASEWORK LOCATE THESE DEVICES AT 2" ABOVE BACKSPLASH OF COUNTER TOP MEASURED TO THE BOTTOM OF DEVICE. VERIFY W/ ARCHITECTURAL DETAILS.




ELEVATION

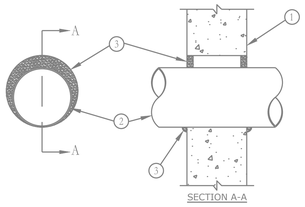



PLAN

*FOR GENERAL MOUNTING REFERENCE ONLY. REFER TO PLANS FOR ALL DEVICE LOCATIONS AND QUANTITIES

## WALL MOUNTED DEVICES: MOUNTING HEIGHTS
NO SCALE

**System No.W-J-1127**
September 07, 2004
F Rating - 2 Hr
T Rating - 1/4 Hr




**1. Wall Assembly** - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 10-1/2 in. (267 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

**2. Through Penetrants** - One metallic pipe, conduit, tubing or flexible metal pipe installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening to be min 0 in. (point contact) to max 1-7/8 in. (0 mm to max 48 mm) Penetrant to be rigidly supported on both sides of wall. The following types and sizes of penetrants may be used:

A. **Steel Pipe** - Nom 8 in. (203 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
B. **Iron Pipe** - Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
C. **Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 6 in. (152 mm) rigid steel conduit.
D. **Copper Tubing** - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. **Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
F. **Through Penetrating Product* - Flexible Metal Piping** - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**OMEGA FLEX INC.**

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**TITEFLEX CORP, A BUNDY CO.**

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**WARD MFG INC.**

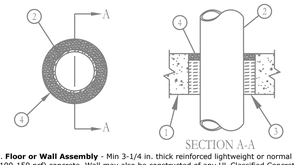
**3. Fill,Void or Cavity Material* - Caulk or Sealant** - Min 5/8 in. (16 mm) thickness of caulk or sealant applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to penetrant/wall interface at point contact location on both sides of wall.

**3M COMPANY** - CP 25WB+, IC 15WB caulk or FB-3000 WT sealant.

*Bearing the UL Classification Marking

This material was extracted by 3M Fire Protection Products from the 2004 edition of the UL Fire Resistance Directory

**SYSTEM NO C-AJ-1014**
(FORMERLY SYSTEM NO. 133)
F RATING--2 HR
T RATING--0 HR
L RATING AT AMBIENT--LESS THAN 1 CFM/sq ft (SEE ITEM 4)
L RATING AT 400° F--LESS THAN 1 CFM/sq ft (SEE ITEM 4)




1. **Floor or Wall Assembly** - Min 3-1/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular opening is 6 in.

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** - One metallic pipe or conduit to be centered within the firestop system. A nom annular space of 3/4 in. is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:

A. **Steel Pipe** - Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Conduit** - Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

3. **Packing Material** - Min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as require to accommodate the required thickness of fill material. Min thickness of packing material in floors and walls to be 2-3/4 in. and 2-1/4 in., respectively.

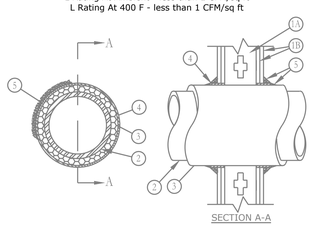
4. **Fill,Void or Cavity Material* - Sealant** - Min 1/2 in. thickness of fill material applied within annulus, flush with top surface of floor or with both surfaces of wall. As an alternate, the permanent forming material (Item 3) may be omitted if the fill material thickness is increased to a min 1-1/2 in.

**MINNESOTA MINING & MFG CO** - Types FB-2000 or FB-2000+. (Note: L Ratings apply only when FB-2000+ is used.)

*Bearing the UL Classification Marking

This material was extracted by 3M Fire Protection Products from the 2002 edition of the UL Fire Resistance Directory

**System No.W-L-5009**
September 07, 2004
(Formerly System No. 566)
F Rating - 2 Hr
T Rating - 1/2 Hr
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft




**1. Wall Assembly** - The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (51 mm by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3 5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** - Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design. Diam of opening cut in gypsum wallboard layers on each side of wall assembly (concentric with pipe, Item 2) to be 1/2 in. to 3/4 in. (13 mm to 19 mm) larger than outside diam of pipe insulation (Item 3) such that, when installed, a 1/4 in. to 3/8 in. (6 mm to 10 mm annular space will be present between the pipe insulation and the gypsum wallboard around the entire circumference of the opening. Max diam of opening is 4 in. (102 mm).

**2. Copper Pipe** - Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper pipe. A max of one pipe is permitted in the firestop system. Pipe to be installed near center of stud cavity width and is to be rigidly supported on both sides of wall assembly.

**3. Pipe Insulation - Plastic#** - Nom 5/8 in. (16 mm) thick acrylonitrile butadiene/polyvinyl chlori (AB/PVC) flexible foam supplied in the form of tubes with skin. Pipe insulation to be sized to outside diam of copper pipe.

See **Plastics** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component pipe insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.

**4. Fill,Void or Cavity Materials* - Wrap Strip** - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in (51 mm wide strip tightly wrapped around pipe insulation (foil side out) with seam butted. Wrap strip shall be securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. Wrap strip installed symmetrically on both sides of wall.

**3M COMPANY** - FS-195+

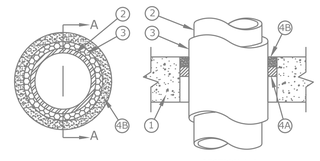
**5. Fill,Void or Cavity Materials* - Caulk or Sealant** - Min 1/4 in. (6 mm) diam continuous bead applied to leading edge of wrap strip layer (Item 4) prior to insertion of wrap strip layer into annular space. After insertion of wrap strip layer in annular space, a nom 1/4 in. (6 mm) diam continuous bead is to be applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.

**3M COMPANY** - CP-25 WB+, IC 15WB, FireDam-150+ caulk or FB-3000 WT sealant

#Bearing the UL Recognized Component Marking.
*Bearing the UL Classification Marking

This material was extracted by 3M Fire Protection Products from the 2004 edition of the UL Fire Resistance Directory

**System No. C-AJ-5001**
Sepember 03, 2004
(Formerly System No. 91)
F Ratings - 1-1/2, 2 and 3 Hr (See Item 4)
T Ratings - 0, 1/2, 3/4 and 1 Hr (See Items 1A and 4)
L Rating At Ambient - 2 CFM per sq ft
L Rating At 400 F - less than 1 CFM per sq ft




**1. Floor or Wall Assembly** - Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150) pcf concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 18 in.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

**1A. Steel Sleeve** (Optional, not shown) - Nom 10 in. (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. above top of floor or beyond either surface of wall.

**T Rating is 0 Hr when sleeve is used.**

**2. Through Penetrant** - Nom 4 in. diam (or smaller) Type L (or heavier) copper pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe or nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assembly.

**3. Pipe Covering*** - Nom 1/2 to 2 in. thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self sealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.

See **Pipe and Equipment Covering - Materials*** (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

**4. Firestop System** - The details of the firestop system shall be as follows:

A. **Packing Material** - Min 1 in. thickness of firmly packed mineral wool batt insulation used as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item B).

B. **Fill,Void or Cavity Material* - Caulk or sealant** - Applied to fill the annular space flush with the top surface of the floor or sleeve or flush with both surfaces of wall. When nom pipe covering thickness is 2 in., min thickness of caulk or sealant fill material is 2 in. When nom pipe covering thickness is 1-1/2 in. or less, min thickness of caulk or sealant fill material is 1 in.

The hourly F and T Ratings of the firestop system are dependent upon the thickness of the floor or wall, the size of pipe, the thickness of pipe covering material and the size of the annular space (between the pipe covering material and the edge of the circular through opening), as shown in the following table:

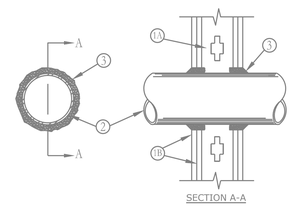
| Min Floor or Wall Thkns in. | Max Pipe Diam in. | Nom Pipe Covering Thkns in. | Annular Space in. | F Rating Hr | T Rating Hr |
|---|---|---|---|---|---|
| 2-1/2 | 4 | 1 or 1-1/2 | 1/2 to 2-3/8 | 2 | 1 |
| 4-1/2 | 4 | 2 | 1/4 to 3-5/8 | 2 | 1-1/2 |
| 2-1/2 | 12 | 1 | 1/2 to 1-1/2 | 2 | 1/2 |
| 4-1/2 | 12 | 1 | 1/2 to 2-3/8 | 3 | 1 |
| 2-1/2 | 12 | 1/2 | 1/2 to 2-3/8 | 2 | 0 |

**3M COMPANY** - CP 25WB+ caulk or FB-3000 WT sealant.

*Bearing the UL Classification Marking

This material was extracted by 3M Fire Protection Products from the 2004 edition of the UL Fire Resistance Directory

**System No.W-L-1001**
September 07, 2004
(Formerly System No. 147)
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft




**1. Wall Assembly** - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. **Gypsum Board*** - Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

**2. Through Penetrant** - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** - Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. **Iron Pipe** - Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. **Conduit** - Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing
D. **Copper Tubing** - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
E. **Copper Pipe** - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
F. **Through Penetrating Product* - Flexible Metal Piping** - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
**OMEGA FLEX INC**

2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
**TITEFLEX CORP.**
**A BUNDY CO**

3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
**WARD MFG INC**

**3. Fill,Void or Cavity Material* - Caulk or Sealant** - Min 5/8. 1-1/4,1-7/8 and 2-1/2 in. thickness of caulk or sealant for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk or sealant applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

| Max Pipe or Conduit Diam. in. | F Rating Hr | T Rating Hr |
|---|---|---|
| 1 | 1 or 2 | 0+, 1 or 2 |
| 1 | 3 or 4 | 3 or 4 |
| 4 | 1 or 2 | 0 |
| 6 | 3 or 4 | 0 |
| 12 | 1 or 2 | 0 |

+When copper pipe is used, T Rating is 0 hr.

**3M COMPANY** - CP 25WB+ caulk or FB-3000 WT sealant,

*Bearing the UL Classification Marking

This material was extracted by 3M Fire Protection Products from the 2004 edition of the UL Fire Resistance Directory

## FIRE STOPPING DETAILS
NO SCALE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257 Market Street, Suite 313
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Phone 630.574.8300

Albertson Engineering Inc.
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MINOT, ND 58701
405.343.9606

smith & boucher engineers
Smith & Boucher, Inc.
29618 W 103rd St.
Olathe, KS 66061
913.345.2127
Project Number: 210970

HEADWATERS
Headwaters Development
6757 Karment Ave NE
Albertville, MN 55301

Boelter
Foodservice Design, Equipment & Supply
boelter.com


Consultants

Mandan, Hidatsa and Arikara Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

MECHANICAL AND ELECTRICAL - DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME401

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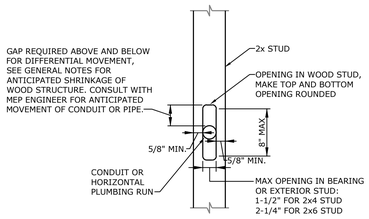
PROJECT NAME & LOCATION \ NAME:
ADDRESS OF PLOT:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:
2516701 Parshall Hotel
Wednesday, April 29, 2026 10:57:36 AM
Friday, May 1, 2026 4:21:03 PM
Booty Charles




WOOD SHRINKAGE NOTES:

THE FOLLOWING IS A LIST OF REQUIREMENTS TO MINIMIZE POTENTIAL ISSUES RELATED TO WOOD SHRINKAGE AND VENEER EXPANSION (VENEER EXPANSION IS SEASONABLE AND VARIABLE BASED ON SUN EXPOSURE). THE MAJORITY OF WOOD SHRINKAGE WILL OCCUR IN THE FIRST 12-18 MONTHS OF OCCUPANCY. VENEER EXPANSION IS SEASONABLE AND VARIABLE DEPENDING ON SUN EXPOSURE.

A. PROVIDE OVERSIZED AND VERTICALLY SLOTTED HOLES AT PIPE HORIZONTAL PENETRATION AND NOTCHES. REFER TO TYPICAL NOTCHING AND CUTTING OF STUD WALL DETAIL FOR ADDITIONAL CONSIDERATIONS ON SIZE LIMITATIONS.

B. ALL PLUMBING PIPE AND ELECTRICAL CONDUIT JOINTS AND CONNECTIONS SHALL BE FLEXIBLE AND ALLOW FOR EXPANSION/CONTRACTION TO PREVENT A RIGID ASSEMBLY.

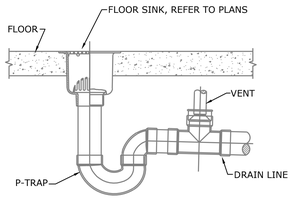
C. HANGERS AND NECESSARY RIGID CONNECTIONS SHALL BE ADJUSTED PRIOR TO COMPLETION OF CONSTRUCTION OR CLOSING OF WALL/CEILING ASSEMBLY.

D. VENT PENETRATIONS SHALL BE PROVIDED WITH DOUBLE FLASHING.

E. ALL SHEET METAL VERTICAL DOWN SPOUTS SHALL HAVE INTERMEDIATE SLIP JOINTS.

F. ROOF DRAINS SHALL BE ADJUSTED BACK TO THE ROOF FINISH SHEATHING ELEVATION AT THE COMPLETION OF CONSTRUCTION AND THEN SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN PROPER DRAINAGE.

## STUD HOLE SHRINKAGE DETAIL
NOT TO SCALE




## NEW FLOOR SINK DETAIL
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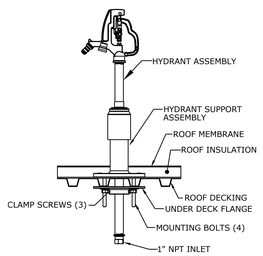


## ROOF HYDRANT DETAIL
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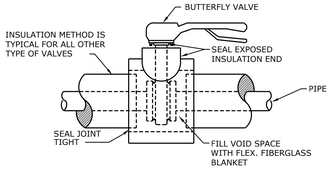
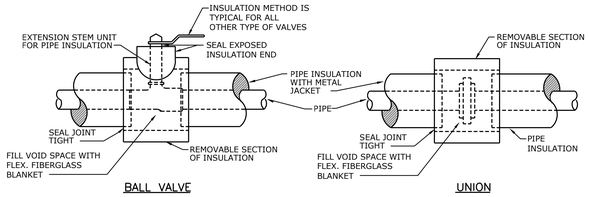


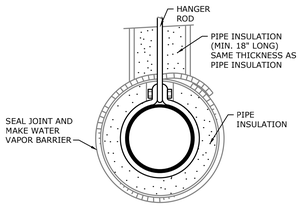

BUTTERFLY VALVE



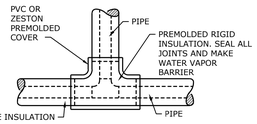

BALL VALVE



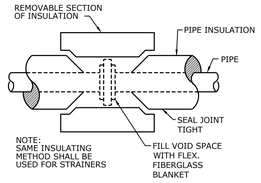

UNION



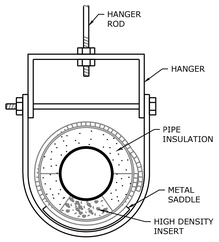

SLIP RING HANGERS
(HOT SERVICES ONLY)



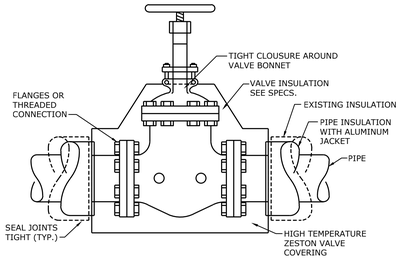

BRANCH CONNECTION



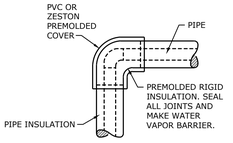

FLANGE & UNION




CLEVIS HANGERS




GATE & OSY VALVES

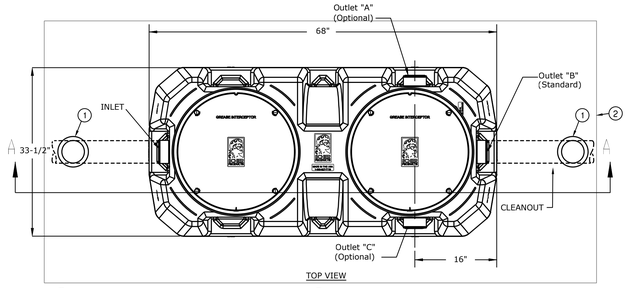



ELBOWS

GENERAL NOTE:

LOOSE INSULATION FILL INSIDE PIPING ELBOWS OR DIAPERS ARE NOT ACCEPTABLE.

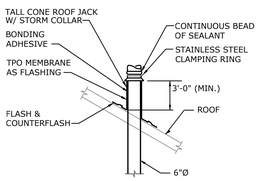
## PIPE INSULATION DETAILS
NOT TO SCALE




PLAN NOTES:

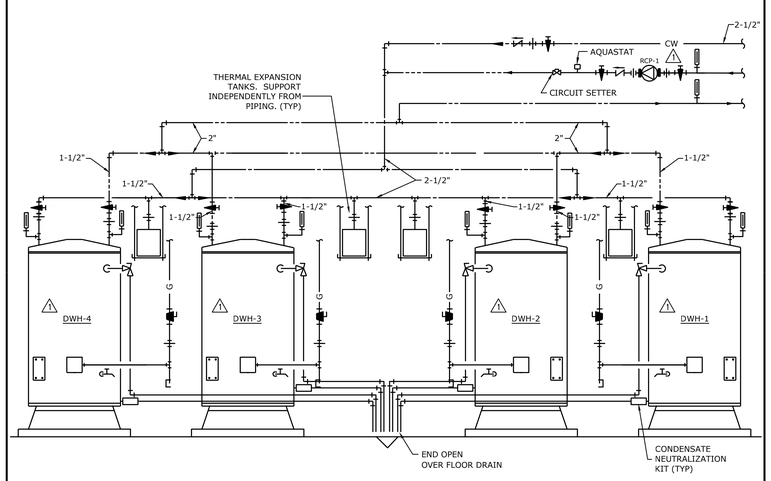
1. CLEANOUT CAP.
2. FINISHED GRADE.
3. CRUSHED AGGREGATE OR SAND BEDDING UNDER UNIT AND ALL SIDES.
4. HIGHWAY RATED BOLTED AND GASKETED COMPOSITE COVER.
5. INTEGRAL AIR RELIEF/ANTI-SIPHON SAMPLING ACCESS.

## GREASE INTERCEPTOR DETAIL
SCALE: 1/2"=1'-0" (BASED ON SCHIER GB-250)

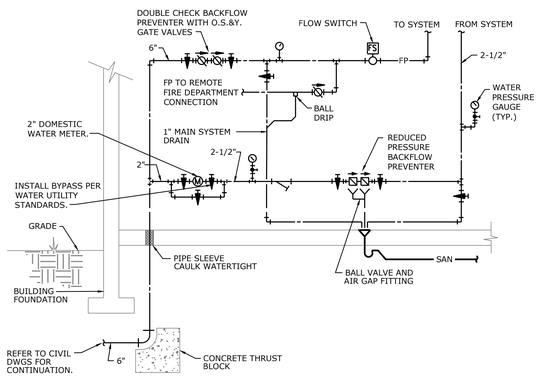



NOTES:
1. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
2. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
3. NO WRINKLES OR FOLDS UNDER CLAMPING RING.
4. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.

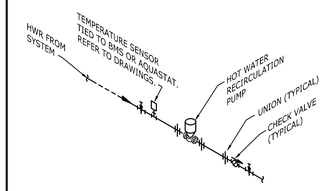
## SECTION THRU PLUMBING VENT
NOT TO SCALE



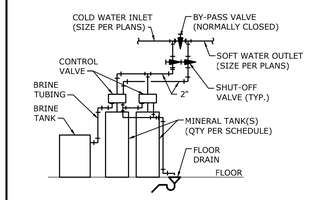

## GAS WATER HEATER DETAIL
NOT TO SCALE



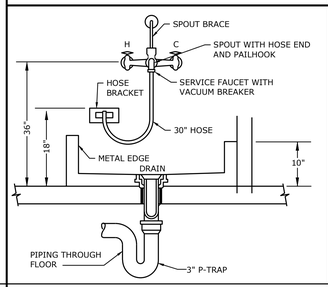

## COMBINED DOMESTIC WATER AND FIRE PROTECTION SERVICE DETAIL
NOT TO SCALE



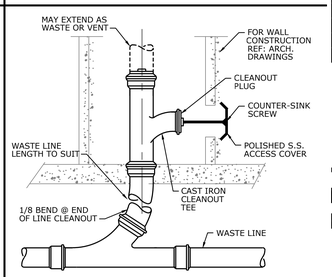

## HOT WATER RECIRC PUMP DETAIL
NOT TO SCALE




## WATER SOFTENER PIPING DETAIL
NOT TO SCALE




## JANITORS CLOSET MOP SINK DETAIL
NOT TO SCALE




## WALL CLEANOUT
NOT TO SCALE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257 Market Street, Suite 313
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www.rml-architects.com

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Albertson Engineering Inc.
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MARSHALL, MI 49068
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Smith & Boucher, Inc.
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Olathe, KS 66061
913.345.2127
Project Number: 251870

Headwaters Development
5757 Karment Ave NE
Albertville, MN 55301

Boelter Foodservice Design, Equipment & Supply
boelter.com


Consultants

Mandan, Hidatsa and Arikara Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

MECHANICAL AND ELECTRICAL - DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME402

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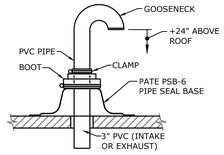
251870 | Parshall Hotel
C:\Users\sbi\Documents_Documents\251870 Parshall Hotel_sbi@smith-boucher.com.rvt
Wednesday, April 29, 2026 10:58:08 AM
Bcolyc ◆ Bscher ◆ Cbarnes Friday, May 1, 2026 4:21:09 PM
Bcoly Charnes

PROJECT NAME: ◆ DATE:
ADDRESS: ◆ CITY, STATE, ZIP:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:




## WATER HEATER INTAKE/VENT
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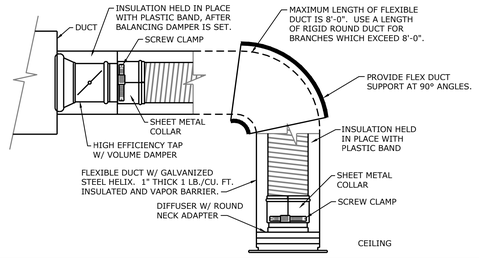
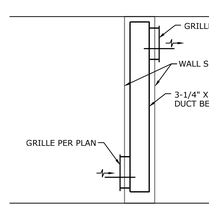
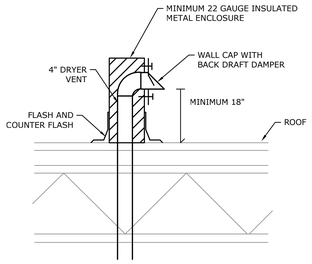


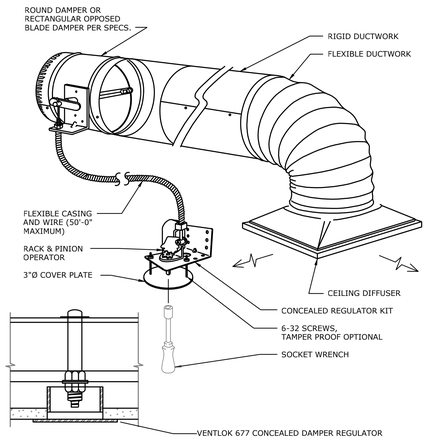

## FLEXIBLE BRANCH DUCT DETAIL
NOT TO SCALE




## STUD SPACE TRANSFER
NOT TO SCALE



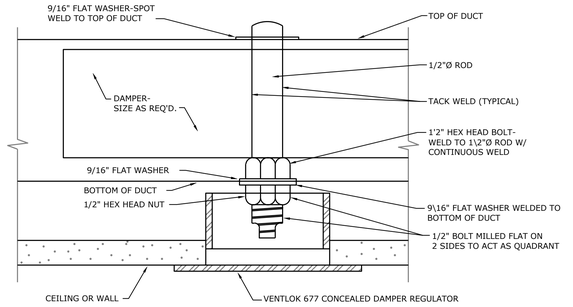

## DRYER VENT DETAIL
NOT TO SCALE




NOTE:

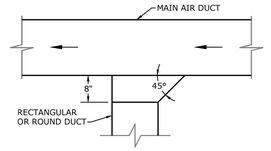
1) COORDINATE EXACT LOCATION OF CEILING MOUNTED CONCEALED REGULATOR WITH ARCHITECT PRIOR TO INSTALLATION.
2) THE YOUNG REGULATOR 270-301EZ BOWDEN CABLE CONTROL SYSTEM IS DESIGNED TO BE IMBEDDED IN THE CEILING FLUSH WITH THE FINISHED SURFACE. DAMPER POSITION INDICATOR VISIBLE UNDER COVER PLATE.
3) CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
4) LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
5) CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

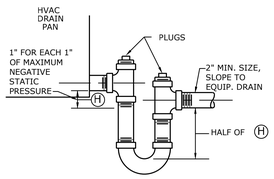
## DETAIL OF ADJUSTABLE DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS OR WALLS
NO SCALE



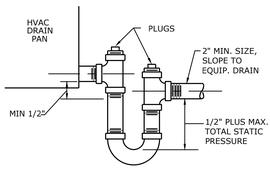

PROVIDE DOUBLE SOCKET WRENCH TO FIT MLLED BOLT SHANK & 1/2" HEX NUT

## DETAIL OF ADJUSTABLE DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS OR WALLS
NOT TO SCALE



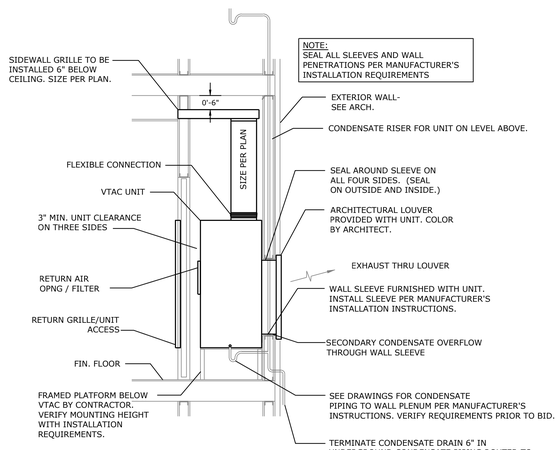

DRAW THRU UNITS



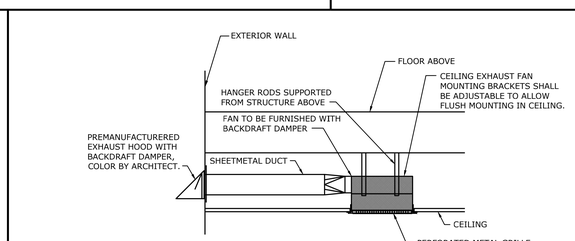

BLOW THRU UNITS

## TYPICAL BRANCH DUCT TAKEOFF
NOT TO SCALE

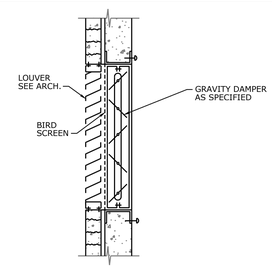
## CONDENSATE TRAP DRAIN DETAIL
NOT TO SCALE



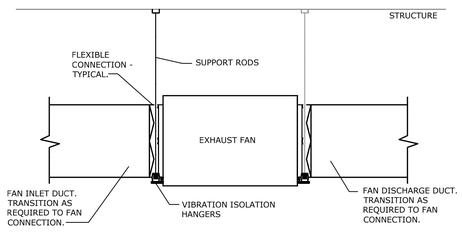

## PACKAGED VERTICAL A/C UNIT DETAIL
NOT TO SCALE




## CEILING EXHAUST FAN DETAIL
SUSPENDED CEILING INSTALLATION – NOT TO SCALE




## DAMPERED AIR INTAKE/EXHAUST
NOT TO SCALE




## IN-LINE EXHAUST FAN DETAIL
NOT TO SCALE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Phone 972-243-3444

Albertson Engineering Inc.
1001 W. Main, 107C
Rapid City, SD 57702
605.343.9606

Smith & Boucher, Inc.
29618 W 103rd St.
Olathe, KS 66061
913.345.2127
Project Number: 251870

Headwaters Development
5757 Karment Ave NE
Alberville, MN 55301

Boelter Foodservice Design, Equipment & Supply
boelter.com

Consultants

Mandan, Hidatsa and Arikara Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner


# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
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| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

MECHANICAL AND ELECTRICAL - DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME403

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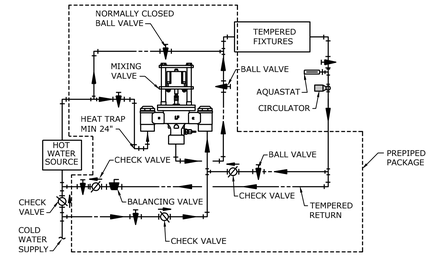
PROJECT NAME: 251870 Parshall Hotel
ADDRESS & LOCATION \ NAME: Parshall, ND \ Parshall Hotel and Laundromat
LAST CORRECTION BY ◆ DATE ◆ TIME: Bosly,c Wednesday, April 29, 2026 10:58:54 AM
PLOTTED BY ◆ DATE ◆ TIME: Bosly Charles Friday, May 1, 2026 4:21:18 PM




REFER TO PLANS FOR PIPE SIZES. REFER TO SCHEDULE FOR PLUMBING EQUIPMENT.

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL INSTALLATION CONDITIONS. INSTALL WITH MANUFACTURER'S REQUIRED CLEARANCES.

## DIGITAL MIXING VALVE ASSEMBLY

NOT TO SCALE

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Albertson Engineering Inc.
Smith & Boucher, Inc.
Headwaters Development
6757 Karment Ave NE
Alberville, MN 55301
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205 Main Street
Parshall, ND 58770

Jurisdictional Approval

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REBID DOCUMENTS

Project Phase

**Revisions**

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| 2 | 03/24/2026 | RFI#021 |
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| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## MECHANICAL AND ELECTRICAL - DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
ME404

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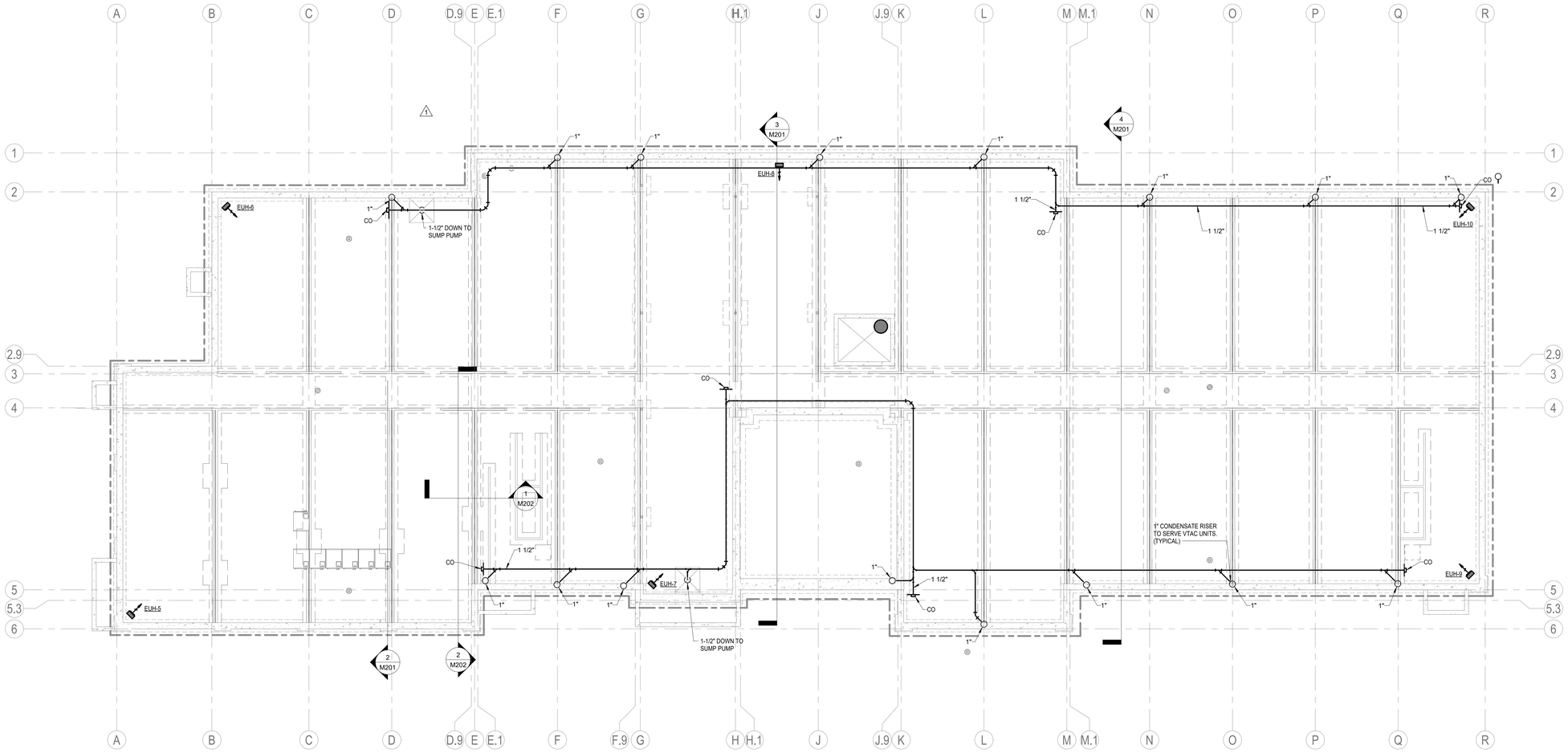
PROJECT NAME: 2516701 Parshall Hotel
LAYOUT FILE LOCATION \ NAME: C:\Users\sbooyc\Desktop\Parshall Hotel_Revit_Central_sbooyc.rvt
LAST CORRECTION BY ◆ DATE ◆ TIME: Booyc Wednesday, April 29, 2026 10:59:12 AM
PLOTTED BY ◆ DATE ◆ TIME: Booly Charles Friday, May 1, 2026 4:21:24 PM

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
3. COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL PRIOR TO CUTTING FLOORS OR BEARING WALLS.
4. WALL MOUNTED DEVICES SUCH AS THERMOSTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND PRESSURE SENSORS ARE SHOWN ON PLANS FOR CLARITY AND GENERAL REFERENCE OF LOCATIONS. LOCATIONS SHOW ARE NOT TO BE CONSIDERED THE EXACT MOUNTING LOCATION. COORDINATE THE INSTALLATION OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND OTHER TRADES WALL MOUNTED DEVICES. GROUP THE INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH MILL WORK, TELEVISIONS, FURNITURE, TEACHING BOARDS, AND OTHER SIMILAR OBSTRUCTIONS.
5. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
6. FURNISH ALL EXPOSED DUCTWORK IN FINISHED SPACES WITH PAINTABLE FINISH. PROVIDE A TRIM FLANGE AT WALL PENETRATIONS OF EXPOSED DUCTWORK, FINISH BY ARCHITECT.
7. DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.
8. ALL SERVICES SHOWN WITH HALF TONE LINE WEIGHT ARE EXISTING.
9. RETURN GRILLES ARE 22"X22" RG-1 UNLESS NOTED OTHERWISE.
10. TEST & BALANCE CONTRACTOR TO BALANCE AIRFLOWS TO VALUES INDICATED ON THE PLANS.




2 LOWER LEVEL HVAC PLAN
1/8" = 1'-0"

5/1/2026 4:29:35 PM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Smith & Boucher, Inc.
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HEADWATERS
Headwaters Development
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Albertville, MN 55301
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Consultants

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307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 02/01/2026 | BP2.0R, ADD3.0 |

## LOWER LEVEL HVAC PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M100

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**BUILDING PRESSURIZATION CALCULATION:**

DOAS-1 = 3500 CFM

EF-1 = 150 CFM
EF-2 = 175 CFM
EF-3 = 200 CFM
EF-4 = 50 CFM
EF-5 = 600 CFM
EF-6 = 225 CFM
EF-A = 50 CFM * 36 GUEST ROOMS = 1800 CFM

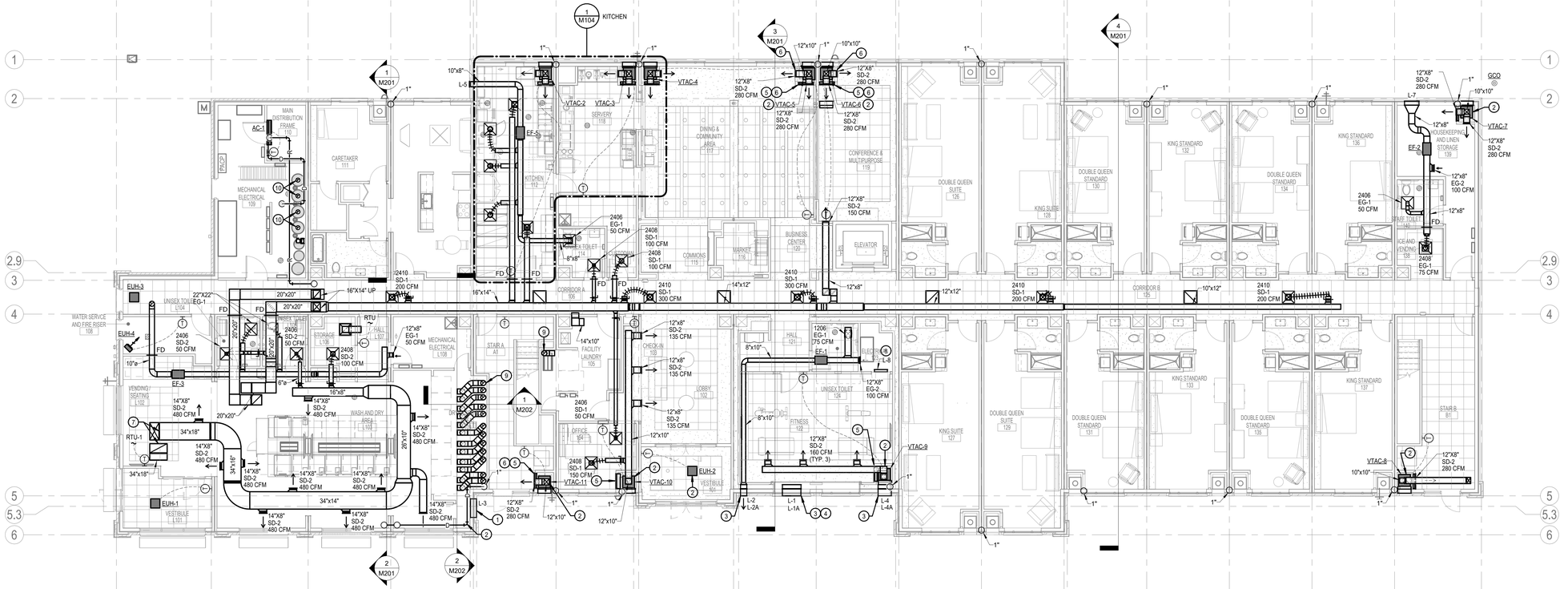
3500-150-175-200-50-600-225-1800 = 300 CFM

**GENERAL NOTES:**

1. REFER TO SHEET M100 FOR ADDITIONAL GENERAL NOTES.

**PLAN NOTES:**

1. PROVIDE LOUVER WITH BACK DRAFT DAMPER.
2. CONDENSATE STACKS TO ROUTE DOWN INTO CRAWL SPACE.
3. PROVIDE (2) LOUVERS IN APPROXIMATE LOCATION SHOWN. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. ICC500 LOUVER TO BE INSTALLED IN MASONRY SHELTER WALL. ARCHITECTURAL LOUVER TO BE INSTALLED IN THE BUILDING SKIN. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. LOUVER FOR STORM SHELTER EMERGENCY VENTILATION TO BE PROVIDED WITH HINGED BLAST STORM DOOR. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE RETURN AIR GRILLE/ACCESS PANEL FLUSH WITH INDICATED WALL FOR EQUIPMENT ACCESS.
6. PROVIDE 10"X8" SUPPLY GRILLE ON FACE OF CHASE. DUCT FROM EQUIPMENT TO GRILLE. INSTALL GRILL 6" BELOW THE CEILING.
7. PROVIDE OVAL DUCTWORK FROM RTU-1 IN THIS AREA. SIZES SHOWN INDICATE OVAL SIZES.
8. LOUVER TO BE PROVIDED IN DOOR. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
9. 10a DRYER EXHAUST DUCT TO BE ROUTED AS HIGH AS POSSIBLE TO ALLOW FOR MAINTENANCE PERSONNELL ACCESS. COORDINATE EXACT ROUTING WITH STRUCTURE. UPSIZE DUCTWORK AS REQUIRED FOR THE NUMBER OF ELBOWS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
10. ROUTE 8" FLUE FROM WATER HEATER UP THROUGH ROOF. TERMINATE WITH GOOSENECK A MINIMUM OF 24" ABOVE THE ROOF LINE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.




1 FIRST FLOOR HVAC PLAN
1/8" = 1'-0"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| 1 | 02/01/2026 | BP2.0R, ADD3.0 |

## FIRST FLOOR HVAC PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M101

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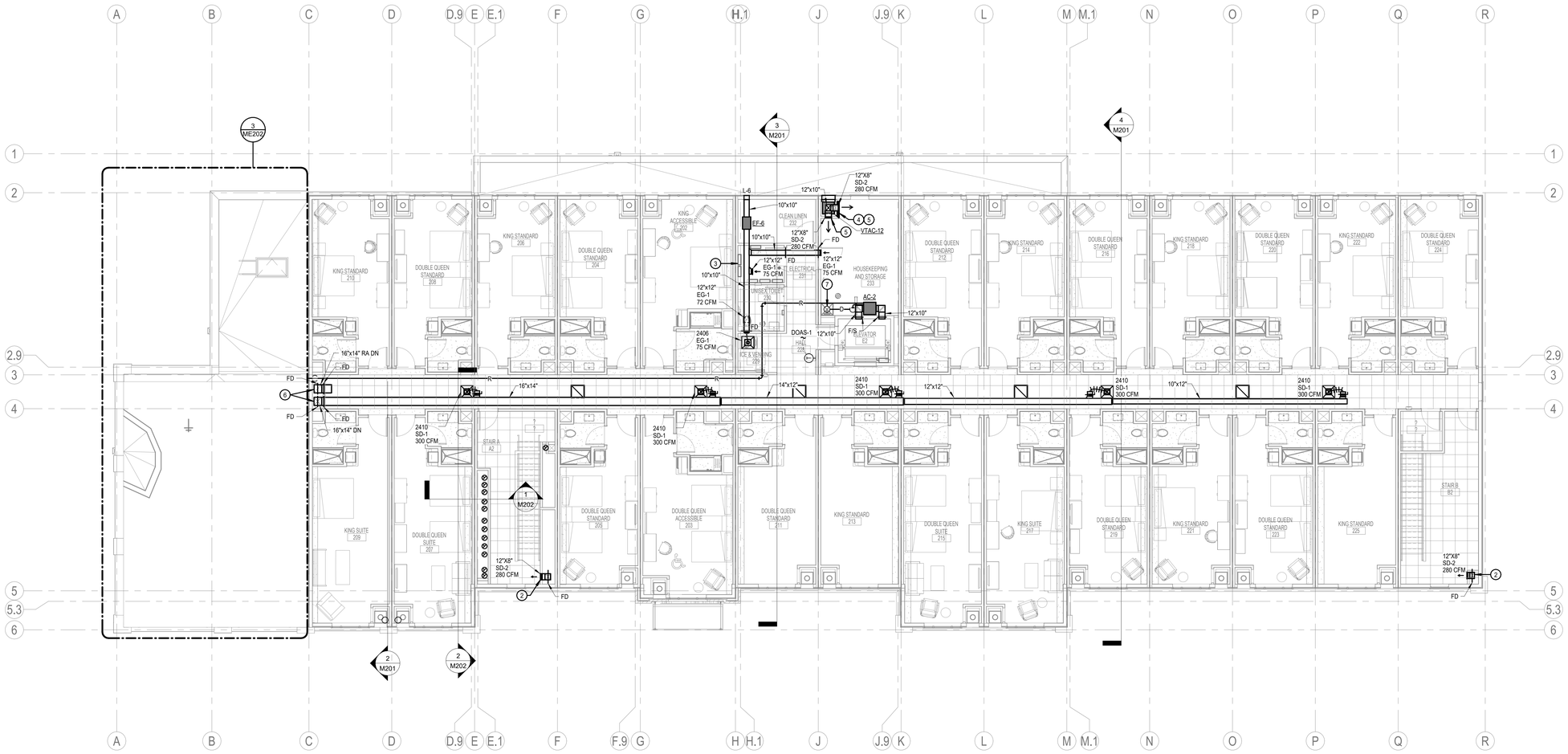
5/1/2026 4:29:43 PM

GENREAL NOTES:

1. REFER TO SHEET M100 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. PROVIDE LOUVER WITH BACKDRAFT DAMPER.
2. 12"X8" FLOOR GRILLE DOWN TO VTAC UNIT BELOW. PROVIDE RADIATION DAMPER IN DUCTWORK THROUGH RATED ASSEMBLY.
3. COORDINATE EXACT DUCT ROUTING TO ENSURE THAT DUCTWORK DOES NOT ROUTE OVER PANELBOARD TO MAINTAIN ALL REQUIRED CLEARANCES.
4. PROVIDE RETURN AIR GRILLE/ACCESS PANEL FLUSH WITH INDICATED WALL FOR EQUIPMENT ACCESS.
5. PROVIDE 10"X8" SUPPLY GRILLE ON FACE OF CHASE. DUCT FROM EQUIPMENT TO GRILLE. INSTALL GRILL 6" BELOW THE CEILING.
6. PROVIDE FIRE DAMPERS AT FLOOR LEVEL. COORDINATE ACCESS PANELS WITH ARCHITECTURAL DRAWINGS.
7. CONDENSATE DRAIN TO BE TERMINATED ABOVE JANITOR'S SINK WITH INDIRECT CONNECTION AND AIR GAP. SIZE CONDENSATE LINE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.




1 SECOND FLOOR HVAC PLAN
1/8" = 1'-0"

5/1/2026 4:29:49 PM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## SECOND FLOOR HVAC PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M102

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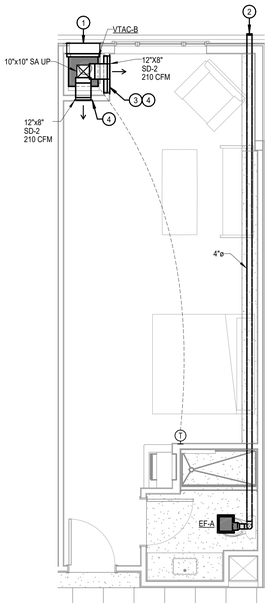
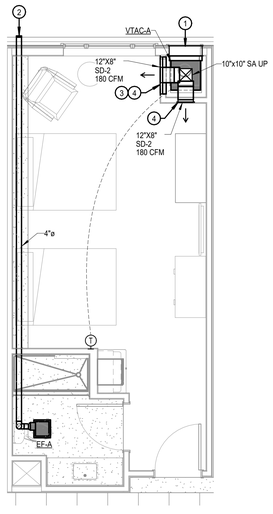
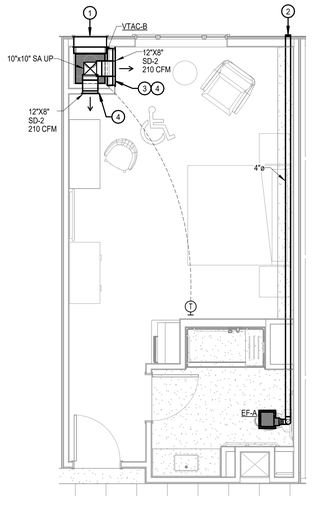


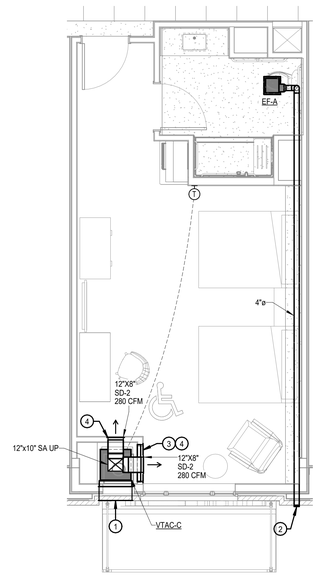

1 HVAC UNIT PLAN - KING SUITE
1/4" = 1'-0"



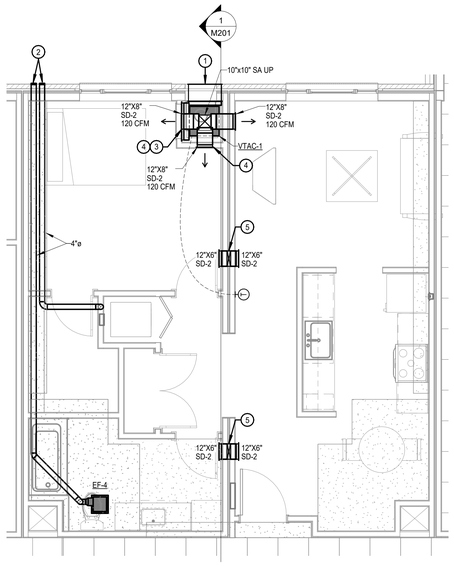

2 HVAC UNIT PLAN - DOUBLE STANDARD
1/4" = 1'-0"



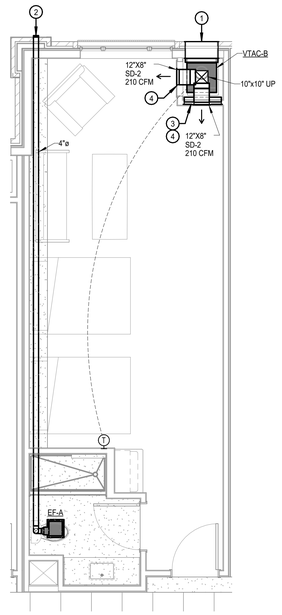

3 HVAC UNIT PLAN - KING ACCESSIBLE
1/4" = 1'-0"



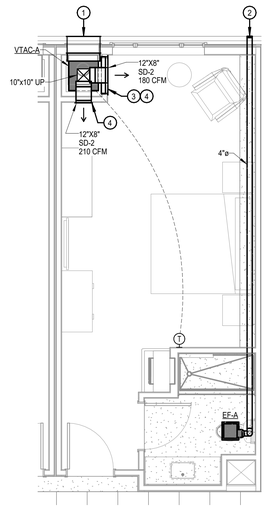

4 HVAC UNIT PLAN - DOUBLE QUEEN DELUXE ACCESSIBLE
1/4" = 1'-0"




5 HVAC UNIT PLAN - CARETAKER
1/4" = 1'-0"




6 HVAC UNIT PLAN - DOUBLE QUEEN SUITE
1/4" = 1'-0"




7 HVAC UNIT PLAN - KING STANDARD
1/4" = 1'-0"

GENREAL NOTES:

1. REFER TO SHEET M100 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. COLLECT CONDENSATE FROM UNIT ON LEVEL ABOVE, COMBINE AND TERMINATE 3/4" CONDENSATE DRAIN IN CONDENSATE RISER AND ROUTE TO PIPING BELOW GRADE. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
2. EXHAUST DUCT TO BE ROUTED IN SOFFIT TO SIDEWALL. COORDINATE EXHAUST DUCT IN LOCATION THAT IS 10' AWAY FROM ANY FRESH AIR INTAKE.
3. PROVIDE RETURN AIR GRILLE/ACCESS PANEL FLUSH WITH INDICATED WALL FOR EQUIPMENT ACCESS.
4. PROVIDE 10"X8" SUPPLY GRILLE ON FACE OF CHASE. DUCT FROM EQUIPMENT TO GRILLE. INSTALL GRILL 6" BELOW THE CEILING.
5. PROVIDE TRANSFER DUCT IN STUD SPACE. ROUTE 14"X4" DUCT IN SPACE BETWEEN GRILLES. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

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307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |

## UNITS HVAC PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M103

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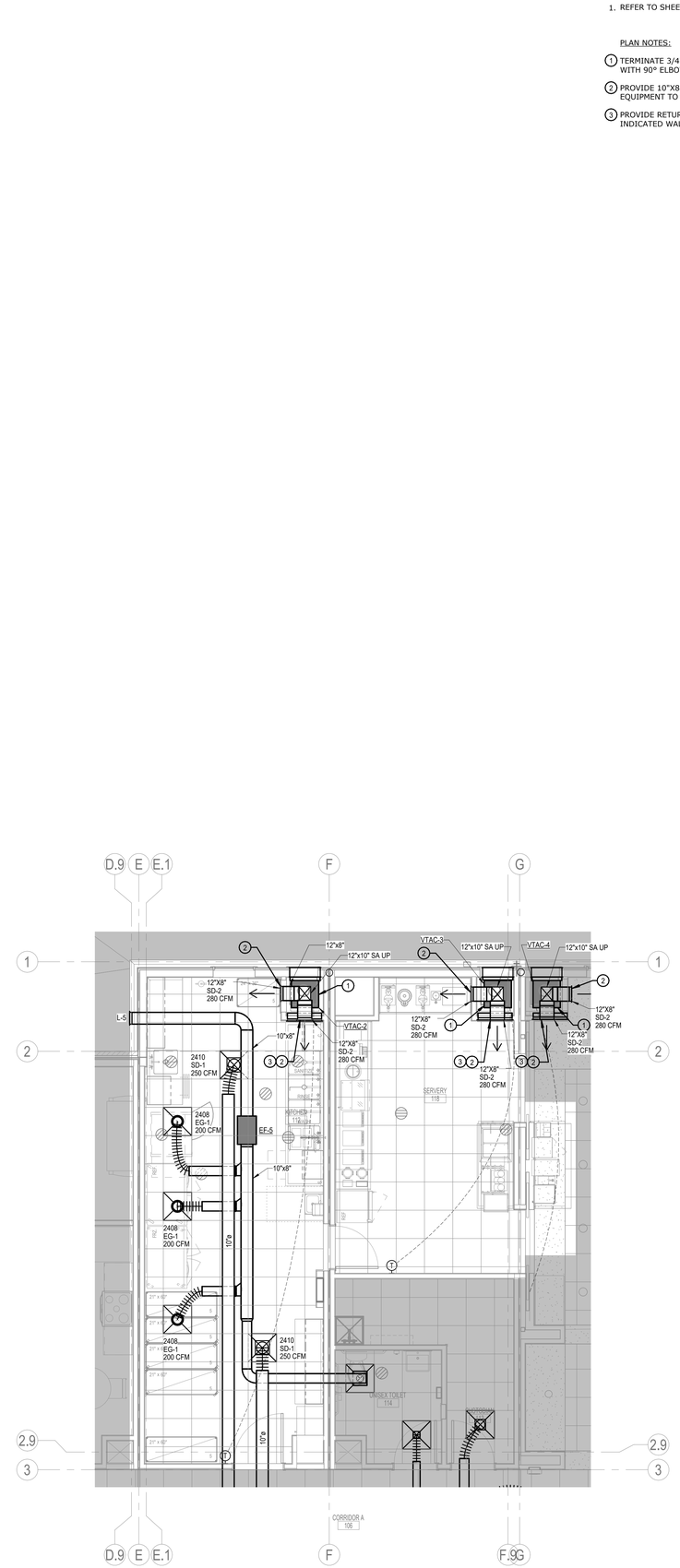
GENERAL NOTES:

1. REFER TO SHEET M100 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. TERMINATE 3/4" CONDENSATE DRAIN THROUGH EXTERIOR WALL WITH 90° ELBOW TURNED DOWN.
2. PROVIDE 10"X8" SUPPLY GRILLE ON FACE OF CHASE. DUCT FROM EQUIPMENT TO GRILLE. INSTALL GRILL 6" BELOW THE CEILING.
3. PROVIDE RETURN AIR GRILLE/ACCESS PANEL FLUSH WITH INDICATED WALL FOR EQUIPMENT ACCESS.




1 HVAC PLAN - KITCHEN
1/4" = 1'-0"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Project Number 2516701

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| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |

## ENLARGED HVAC PLAN - KITCHEN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M104

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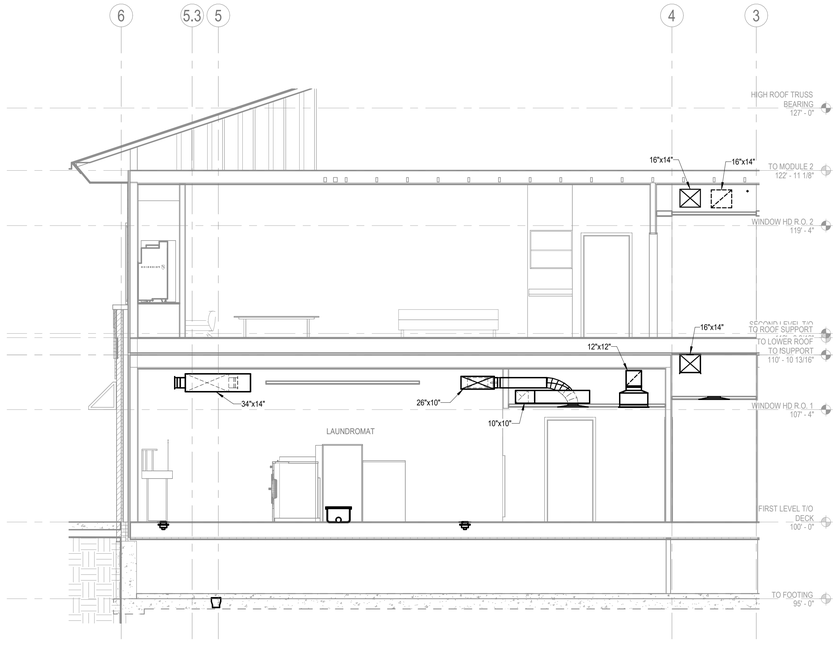
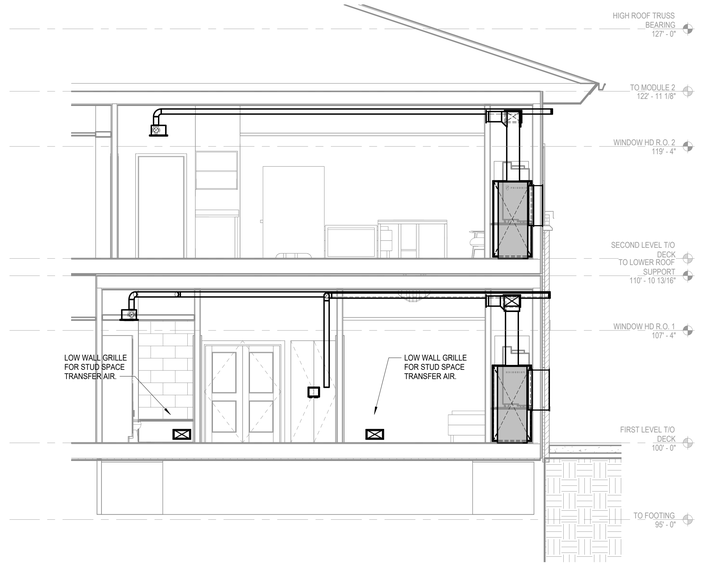
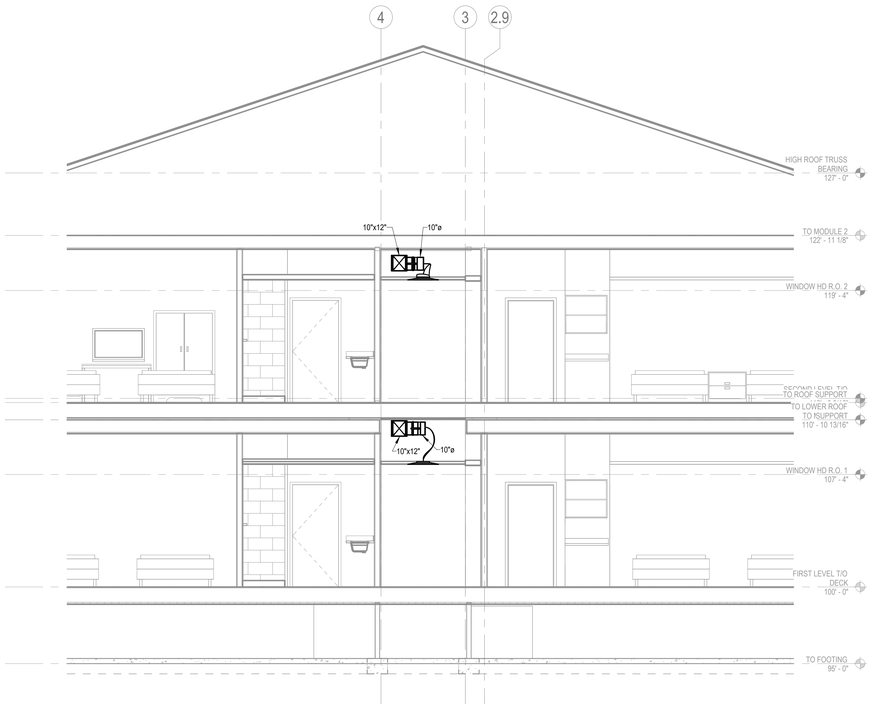


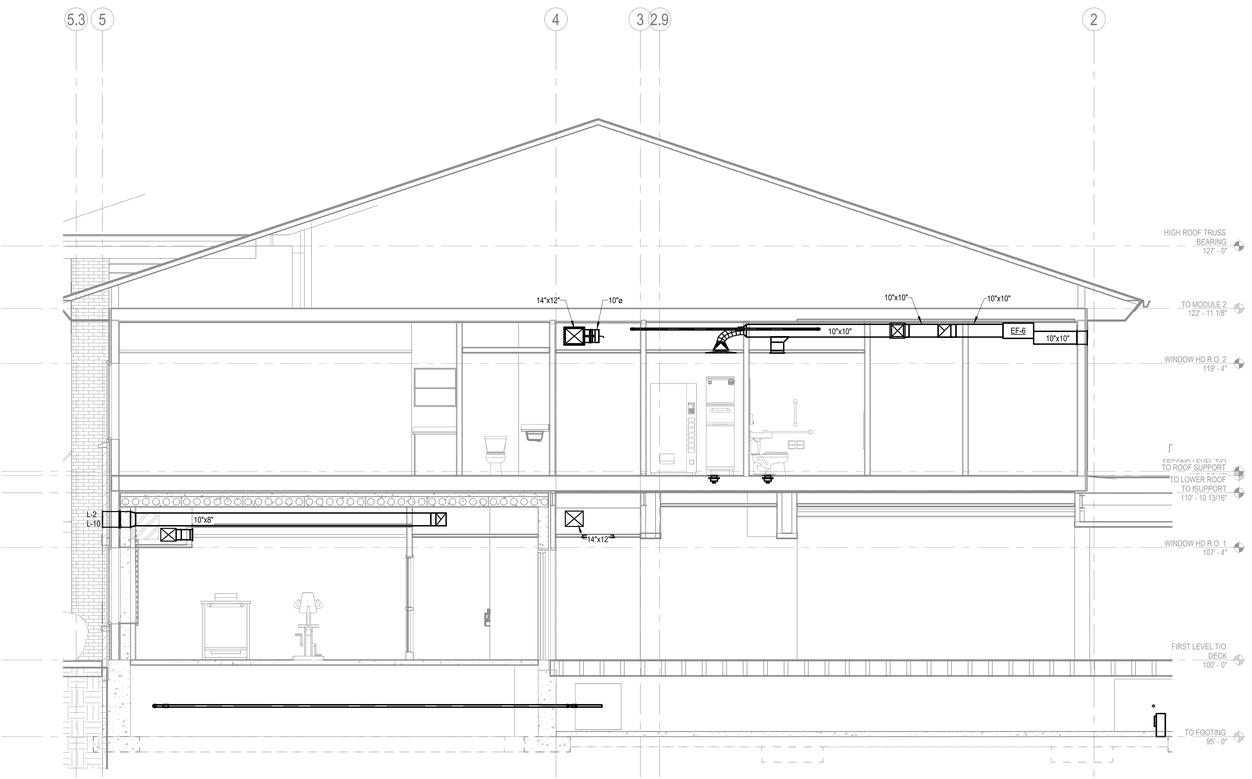

2 HVAC SECTION - LAUNDROMAT
1/4" = 1'-0"




1 HVAC SECTION - CARETAKER
1/4" = 1'-0"




4 HVAC SECTION - CORRIDOR
1/4" = 1'-0"




3 HVAC SECTION - FITNESS CENTER
1/4" = 1'-0"

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## HVAC SECTION

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M201

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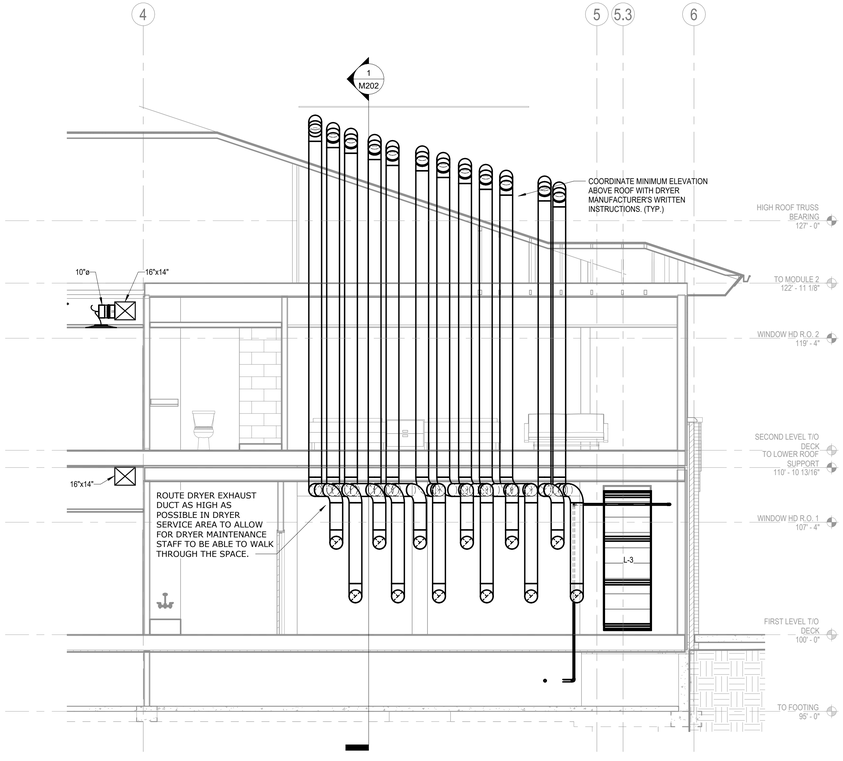
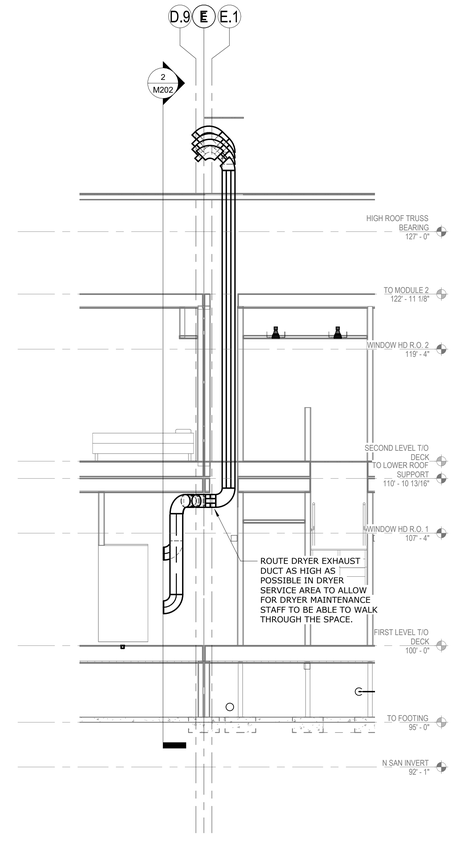



2 LAUNDROMAT DRYER EXHAUST SECTION NORTH/SOUTH
1/4" = 1'-0"




1 LAUNDROMAT DRYER EXHAUST SECTION EAST/WEST
1/4" = 1'-0"

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| | 01/06/2026 | Issued for Bid, BP2.0R |

## HVAC SECTION

Project No.: 22.1010
Date: 05/04/2026
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SHEET NUMBER
M202

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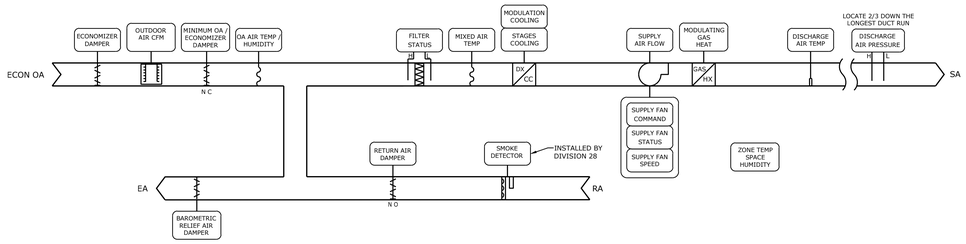



**VAV AIR ROOFTOP HANDLING UNIT SEQUENCE**

THE ROOFTOP UNITS SHALL BE FURNISHED WITH INTEGRAL OEM CONTROLS WITH BACNET OR LON COMMUNICATION INTERFACE FOR INTEGRATION INTO THE BMS. MANUFACTURER TO PROVIDE FACTORY START-UP AND ONSITE ASSISTANCE FOR BMS INTEGRATION.

THE BMS SHALL SHOW ALL POINTS INDICATED ON THE GRAPHIC DISPLAY AS WELL AS ALARMS AS AVAILABLE.

OCCUPIED MODE:

THE OCCUPANCY MODE WILL BE CONTROLLED VIA A NETWORK INPUT. THE OCCUPANCY MODE CAN ALSO BE OVERRIDDEN BY A NETWORK INPUT.

SUPPLY FANS:

THE SUPPLY FAN SHALL BE STARTED ACCORDING TO THE BUILDING OCCUPANCY SCHEDULE. IF THE SUPPLY FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM SHALL BE GENERATED. UPON A LOSS OF AIRFLOW, THE SYSTEM WILL AUTOMATICALLY RESTART. WHEN THE SUPPLY FAN STATUS INDICATES THE FANS STARTED, THE CONTROL SEQUENCE SHALL BE ENABLED.

DISCHARGE AIR CONTROL:

THE DISCHARGE AIR TEMPERATURE SHALL MODULATE TO MEET SPACE TEMPERATURE SET POINT. ON A CALL FOR COOLING, THE DX COOLING SHALL STAGE/MODULATE ON AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE AT SET POINT. ON A CALL FOR HEATING, THE HEAT SHALL STAGE/MODULATE TO MAINTAIN THE SPACE TEMPERATURE AT SET POINT.

SUPPLY AIR TEMPERATURE RESET:

SUBJECT TO SPACE TEMPERATURE AND HUMIDITY REQUIREMENTS BEING SATISFIED, THE DISCHARGE AIR TEMPERATURE SET POINT SHALL BE RESET UPWARDS IN 1°F INCREMENTS (ADJ) UP TO A MAXIMUM OF 62°F (ADJ.)

GAS HEAT EXCHANGER:

THE GAS HEAT EXCHANGER WILL STAGE/MODULATE TO MAINTAIN THE DISCHARGE TEMPERATURE SET POINT. WHEN THE UNIT IS SHUTDOWN, THE GAS HEAT EXCHANGER WILL BE OFF.

COOLING COIL:

THE DX COOLING COIL WILL BE STAGED/MODULATED IN SEQUENCE TO MAINTAIN THE DISCHARGE TEMPERATURE SET POINT. THE COOLING COIL WILL BE LOCKED OUT ON A DROP IN OUTDOOR AIR TEMPERATURE BELOW THE LOCKOUT SET POINT.

MINIMUM OUTSIDE AIR CONTROL:

THE MINIMUM OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW SET POINT, REFER TO THE VAV ROOFTOP UNIT SCHEDULE FOR VALUES.

ECONOMIZER MODE (INTEGRATED DRY BULB):

WHEN THE OUTSIDE AIR DRY BULB IS BETWEEN 65 F (ADJ.) AND 35 F (ADJ.) ECONOMIZER FUNCTION SHALL BE ENABLED. WHEN THE OUTSIDE AIR IS ABOVE THE COOLING SUPPLY AIR TEMPERATURE SET POINT, THE COOLING COOL SHALL BE ENABLED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT. WHEN THE OUTSIDE AIR IS BELOW THE SUPPLY AIR TEMPERATURE SET POINT BY 2 F (ADJ), THE COOLING COIL SHALL BE LOCKED OUT AND THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT.

UNOCCUPIED MODE:

WHEN THE UNIT IS IN UNOCCUPIED MODE ACCORDING TO THE SCHEDULE, THE OUTSIDE AIR DAMPER IS CLOSED, THE RELIEF AIR DAMPER IS CLOSED, THE RETURN AIR DAMPER IS OPEN AND THE UNIT IS OFF. UPON A REQUEST FOR COOLING BY A MINIMUM OF FIVE ZONES NEEDING TO MAINTAIN THEIR UNOCCUPIED COOLING TEMPERATURE SET POINT, OR IF A SINGLE ZONE IS 5°F (ADJ.) OUT OF SET POINT, ACTIVATE THE UNIT SUPPLY FAN. THE UNIT SUPPLY FAN, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL REMAIN CLOSED. TERMINAL UNITS SHALL PROVIDE UNOCCUPIED SPACE HEATING TEMPERATURE CONTROL.

MORNING WARM-UP MODE AND COOL-DOWN MODES:

OPTIMAL START WHEN THE UNIT TRANSITIONS FROM THE UNOCCUPIED MODE TO OCCUPIED MODE, MORNING WARM-UP OR COOL-DOWN SHALL BE ACTIVATED. WHEN THERE IS A CALL FOR HEATING, A MORNING WARM-UP SEQUENCE SHALL BE INITIATED. DURING MORNING WARM-UP THE FAN SHALL BE TURNED ON, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, THE COOLING SHALL BE DISABLED, THE HEATING SHALL BE ACTIVE AND THE DISCHARGE AIR TEMPERATURE SET POINT SHALL BE 90°F (ADJ). DURING MORNING COOL DOWN THE AHU FAN SHALL BE TURNED ON, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, THE HEATING SHALL BE DISABLED, THE COOLING SHALL BE ENABLED, AND THE DISCHARGE AIR TEMPERATURE SET POINT SHALL BE 52°F (ADJ.) WHEN ALL ZONE TERMINALS ARE READY TO SWITCH TO THE OCCUPIED MODE, THE RTU SHALL TRANSITION TO THE OCCUPIED SEQUENCE.

FILTER STATUS:

THE DIFFERENTIAL PRESSURE ACROSS THE FILTERS SHALL BE MONITORED AND AN ALARM GENERATED IF THE DIFFERENTIAL PRESSURE RISES ABOVE SET POINT.

SMOKE DETECTOR ALARM:

MONITOR THE SMOKE DETECTOR AND NOTIFY BMS IF IT GOES INTO ALARM.

TIMED OVERRIDE:

WHEN OCCUPANCY OVERRIDE IS INITIATED BY THE USER AT A LOCAL THERMOSTAT, THE UNIT OA DAMPER SHALL REMAIN CLOSED AND THE UNIT SHALL OTHERWISE OPERATE PER IT'S NORMAL OCCUPIED MODE SEQUENCE FOR A PERIOD OF 1 HOUR (ADJ.) WHEN THE TIMED OVERRIDE PERIOD ENDS THE UNIT SHALL SWITCH BACK TO THE SCHEDULED MODE OF OPERATION.

SHUTDOWN:

WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT SHALL BE SET AS FOLLOWS:
- SUPPLY FAN SHALL BE OFF
- OUTSIDE AIR DAMPERS SHALL BE CLOSED
- RETURN AIR DAMPER SHALL OPEN
- HEATING SHALL BE OFF
- COOLING SHALL BE OFF
- ASSOCIATED ERU SHALL BE OFF

SAFETIES:

GENERATE AN ALARM IN THE EVENT ANY INTERNAL UNIT SAFETY ACTIVATES.

WHERE MULTIPLE SENSORS ARE PROVIDED FOR CONTROL, BMS TO MONITOR FOR OUTLIERS AND/OR FAILED SENSORS AND GENERATE AN ALARM. PROVIDE ABILITY TO REMOVE INDIVIDUAL SENSORS FROM SEQUENCE.

TEST AND BALANCE COORDINATION:

ENGAGE TAB CONTRACTOR TO TEST AND PROVIDE INPUT ON ON DAMPER POSITIONS, PRESSURE SET POINTS, FAN SET POINTS, ETC. AS NEEDED TO ESTABLISH BUILDING. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION AND SETPOINTS.

APPLICABLE EQUIPMENT LIST:

RTU-1

## PACKAGED VARIABLE AIR VOLUME ROOFTOP UNIT
NOT TO SCALE

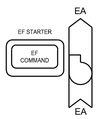
ELEVATOR SUMP PUMP MONITORING: THE BAS SYSTEM SHALL MONITOR THE SUMP PUMP ALARM CONTACTS AND PROVIDE ALARM BASED UPON SUMP ALARM CONTACT INPUT.

REFER TO DRAWINGS FOR QUANTITIES AND LOCATIONS.

## SUMP PUMP MONITORING
NO SCALE

SENSORS MOUNTED ON THE NORTH SIDE OF THE BUILDING SHALL CONTINUALLY BROADCAST OUTSIDE AIR TEMPERATURE AND HUMIDITY ON THE NETWORK AS GLOBAL INFORMATION. OUTSIDE AIR TEMPERATURE AND HUMIDITY SHALL BE DISPLAYED ON ALL SYSTEM GRAPHICS.

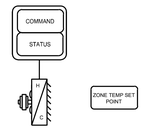
## OUTSIDE AIR
NO SCALE




**GENERAL EF CONTROL AND MONITORING**
PUBLIC RESTROOMS ROOM AND JANITOR CLOSETS ARE CONTROLLED BY THE BMS TO OPERATE 24/7.

GENERATE ALARM IN THE EVENT THEY ARE DISABLED.

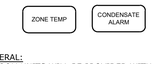
## GENERAL EF CONTROL




**UNIT HEATER CONTROL SCHEMATIC**
ALL UNIT HEATERS WILL BE CONTROLLED BY THE BMS SYSTEM. WHEN THE ZONE DROPS BELOW SET POINT (60°F, ADJ.), THE UNIT HEATER WILL BE ENABLED.

IF THE SPACE DROPS BELOW 50 DEG (ADJ) THE DDC WILL ANNUNCIATE AN ALARM AT THE OPERATOR WORKSTATION.

## UNIT HEATER
NO SCALE




GENERAL:
IT ROOM UNITS WILL BE PROVIDED WITH FACTORY CONTROL PACKAGE WITH OEM CONTROL AND BMS INTERFACE.

PROVIDE CAPABILITY TO REMOTELY ENABLE/DISABLE AND TO MONITOR AND ADJUST SPACE TEMPERATURE SET POINT AND GENERATE ALARM IN THE EVENT THE SPACE DEVIATES MORE THAN 5°F (ADJ.) FROM SET POINT (75°F ADJ.)

PROVIDE FILTER ALARM AND GENERAL ALARM.

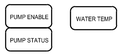
CONDENSATE OVERFLOW SENSOR:
IN THE EVENT THE CONDENSATE OVERFLOW SENSOR SENSES WATER OVERFLOWING THE DRAIN PAN, THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM.

## IT ROOM UNIT SEQUENCE
NO SCALE

**DOMESTIC HOT WATER RECIRCULATING PUMP**
PUMP OPERATION SHALL BE MATCHED TO THE BUILDING SCHEDULE. INITIAL SET UP IS FOR 24/7 OPERATION.

PUMP SHALL OPERATE TO MAINTAIN A 110 °F (ADJ.) RETURN WATER TEMPERATURE.

SHOULD THE PUMP FAIL TO OPERATE GENERATE AN ALARM.




## HOT WTR RECIRC PUMP

THE BAS CONTRACTOR SHALL PROVIDE THE CAPABILITY OF COMMUNICATING (VIA BACNET OR OTHER PROTOCOL) TO THE METERS LOCATED IN THE MAIN SWITCHBOARDS OR SHALL PROVIDE INDEPENDENT METERS. THE BAS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND/OR UTILITY PROVIDER AS NEEDED. THE BAS CONTRACTOR SHALL PROVIDE ALL WIRING AND CONDUIT NECESSARY.

THE BAS SHALL INDICATE ON THE OPERATOR STATION INFORMATION FOR BOTH DEMAND (KW) AND CONSUMPTION. THE BAS SHALL TREND AND GRAPH THE DAILY ENERGY CONSUMPTION AND DEMAND.

DISPLAY THE CURRENT DAILY, MONTHLY, AND YEAR-TO-DATE CONSUMPTION IN KWH.

DISPLAY THE CURRENT DAILY, MONTHLY, AND YEAR-TO-DATE DEMAND IN KW. ADDITIONALLY DISPLAY THE DATE AND VALUES FOR THE ANNUAL MINIMUM, AVERAGE, AND MAXIMUM DEMAND.

MONITOR AND ALARM FOR ANY LOSE OF PHASE

## POWER MONITORING

PROVIDE GRAPHICAL DISPLAY FOR GENERATOR OPERATION.

PROVIDE MONITORING AND ALARMING OF GENERATORS AND TRANSFER SWITCHES.

- GENERATOR STATUS
- GENERATOR ALARM
- TRANSFER SWITCH STATUS (NORMAL AND EMERGENCY INDICATION)
- TEST MODE OPERATION

REFER TO DRAWINGS FOR QUANTITIES AND LOCATIONS.

WHEN BUILDING POWER LOSS OCCURS GENERATE ALARM. BMS TO DISPLAY THAT POWER IS DOWN ON ALL NON-EMERGENCY SYSTEMS AND DISABLE ALARMING WHILE POWER LOSS IS PRESENT ON THOSE SYSTEMS TO PREVENT NUISANCE ALARMS.

ONCE BMS SEES EMERGENCY POWER AVAILABLE, PROVIDE ORDERLY STARTUP OF BACKED UP HVAC SYSTEMS TO LIMIT IN RUSH CURRENT TO GENERATOR.

SYSTEMS SHALL AUTOMATICALLY RESTART UPON RESTORATION OF POWER. PROVIDE ORDERLY RESTART OF HVAC SYSTEMS.

IN THE EVENT NORMAL POWER IS LOST AND THE GENERATOR IS STARTED, THE HVAC SYSTEMS SHALL DELAY RE-STARTING.

THE STEP 1 SYSTEMS ARE:
- BMS CONTROLS
- STORM SHELTER BACKUP POWER SYSTEMS

THE STEP 2 SYSTEMS ARE:
- AHU DOAS/RTU FAN
- IT ROOM UNIT

THE STEP 3 SYSTEMS ARE:
- BUILDING EXHAUST FANS
- GUEST ROOM VTAC UNITS

PROVIDE A DELAY OF 5 MINUTES BETWEEN STEPS.

## GENERATORS & EMERGENCY SYSTEMS
NO SCALE

BUILDING MANAGEMENT SYSTEM:

THE BMS SYSTEM SHALL INCLUDE A FLOOR PLAN MAP OF THE BUILDING AND GRAPHICAL DISPLAY OF EACH SYSTEM. IT SHALL HAVE REMOTE ACCESS CAPABILITIES.

THERMOSTATS WITH DIGITAL DISPLAY SHALL BE PROVIDED IN ALL AREAS.

THE BMS SYSTEM SHALL PROVIDE THERMOSTATS TO INTERFACE WITH ALL TERMINAL UNITS, FAN COIL UNITS AND AIR HANDLING UNITS TO SET OCCUPANCY SCHEDULES, SETBACK TEMPERATURES AND OCCUPANT SET POINT LIMITS.

ALL ZONE SET POINTS SHALL HAVE THE ABILITY FOR LIMITS TO BE SET THROUGH THE BMS. BMS INITIAL SET UP SHALL LIMIT LOCAL THERMOSTAT ADJUSTMENTS TO +/-3 °F (ADJ.)

THE BMS SHALL BE ABLE TO REMOTELY ADJUST SET POINTS AND OCCUPANCY SCHEDULES FOR ALL EQUIPMENT. GRAPHICS SHALL DISPLAY ALL EQUIPMENT AND INCLUDE, TEMPERATURE, STAGING AND ALARM INFORMATION.

THE BMS SHALL HAVE THE CAPABILITY TO EMAIL AND PAGE ALARMS AS CHOSEN BY THE OWNER TO NOTIFY OF EQUIPMENT FAILURE.

UPON LOSS OF POWER AND RESTORATION OF POWER (BY GENERATOR AND/OR UTILITY) EQUIPMENT SHALL BE PROVIDED WITH AN ORDERLY STARTUP OF LARGE MOTORS, COMPRESSORS, AND PUMPS.

## GENERAL BMS REQUIREMENTS
NO SCALE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Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
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| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

HVAC CONTROL DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M301

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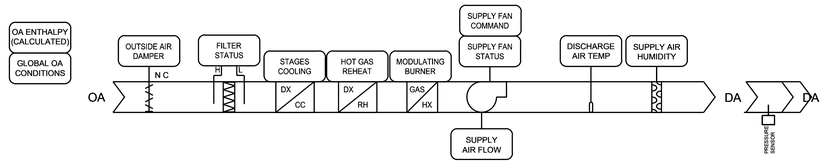
PROJECT NAME ◆ LOCATION \ NAME
ISSUED FOR ◆ DATE ◆ TIME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:
2516701 Parshall Hotel
C:\Users\...\Documents\Revit Central Files\2516701 Parshall Hotel_Central_sbooty.rvt
Wednesday, April 29, 2026 11:03:59 AM
sbooty
Friday, May 1, 2026 4:21:31 PM
Booty, Charles




SCHEDULING:
THE UNIT SHALL RUN CONTINUOUSLY.

- ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.). LOW AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.). CONTROLS CONTRACTOR TO INTEGRATE TO INTERNAL ALARMING POINTS AND DISPLAY ALARM CODE WITH DESCRIPTION ON USER INTERFACE.

SUPPLY AIR CONTROL:
THE SUPPLY FAN SHALL BE STARTED ACCORDING TO THE BUILDING OCCUPANCY SCHEDULE. IF THE SUPPLY FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM SHALL BE GENERATED. WHEN THE SUPPLY FAN STATUS INDICATES THE FAN STARTED, THE CONTROL SEQUENCE SHALL BE ENABLED. THE SUPPLY FAN SHALL MODULATE TO MAINTAIN THE DISCHARGE STATIC PRESSURE AT SET POINT (ADJ.).

DURING COOLING MODE, THE UNIT WILL MODULATE/STAGE THE COMPRESSOR(S) TO MAINTAIN A SUPPLY AIR TEMPERATURE SET POINT OF 75°F (ADJ). DURING HEATING MODE THE UNIT WILL MODULATE HEATING TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 70°F (ADJ).

DEHUMIDIFICATION / HOT GAS REHEAT:
WHEN THE OUTSIDE AIR DEW POINT IS ABOVE THE FACTORY SET POINT OF 54°F (ADJ.) COOLING LAT SHALL BE 50 (ADJ) AND UNIT LAT SHALL BE 75°F. THE COOLING/DEHUMIDIFICATION MODE IS ENABLED. THESE SETTINGS SHALL BE CAPABLE OF BEING ADJUSTED THROUGH THE BMS. IN THIS MODE THE REFRIGERANT SOLENOID VALVES INDEX TO DIVERT REFRIGERANT BETWEEN THE DX COOLING COIL AND THE REHEAT COIL TO MAINTAIN THE LEAVING AIR TEMPERATURE SET POINT. THE ELECTRONIC MODULATING REFRIGERANT VALVES WILL INDEX TO RESET THE LEAVING AIR TEMPERATURE TO MAINTAIN THE ZONE TEMPERATURE SET POINT.

SHUTDOWN:
WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT SHALL BE SET AS FOLLOWS:
SUPPLY FAN SHALL BE OFF
OUTSIDE AIR DAMPERS SHALL CLOSE
RETURN AIR DAMPER SHALL OPEN
HEATING SHALL BE DISABLED
COOLING SHALL BE DISABLED

## DOAS CONTROL DIAGRAM (DOAS-1,2,3&4)
NO SCALE

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Parshall, ND 58770

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REBID DOCUMENTS

Project Phase

**Revisions**

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|---|---|---|
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| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

HVAC CONTROL DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
M302

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PROJECT NAME:
ADDRESS / LOCATION \ NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:

2516701 Parshall Hotel
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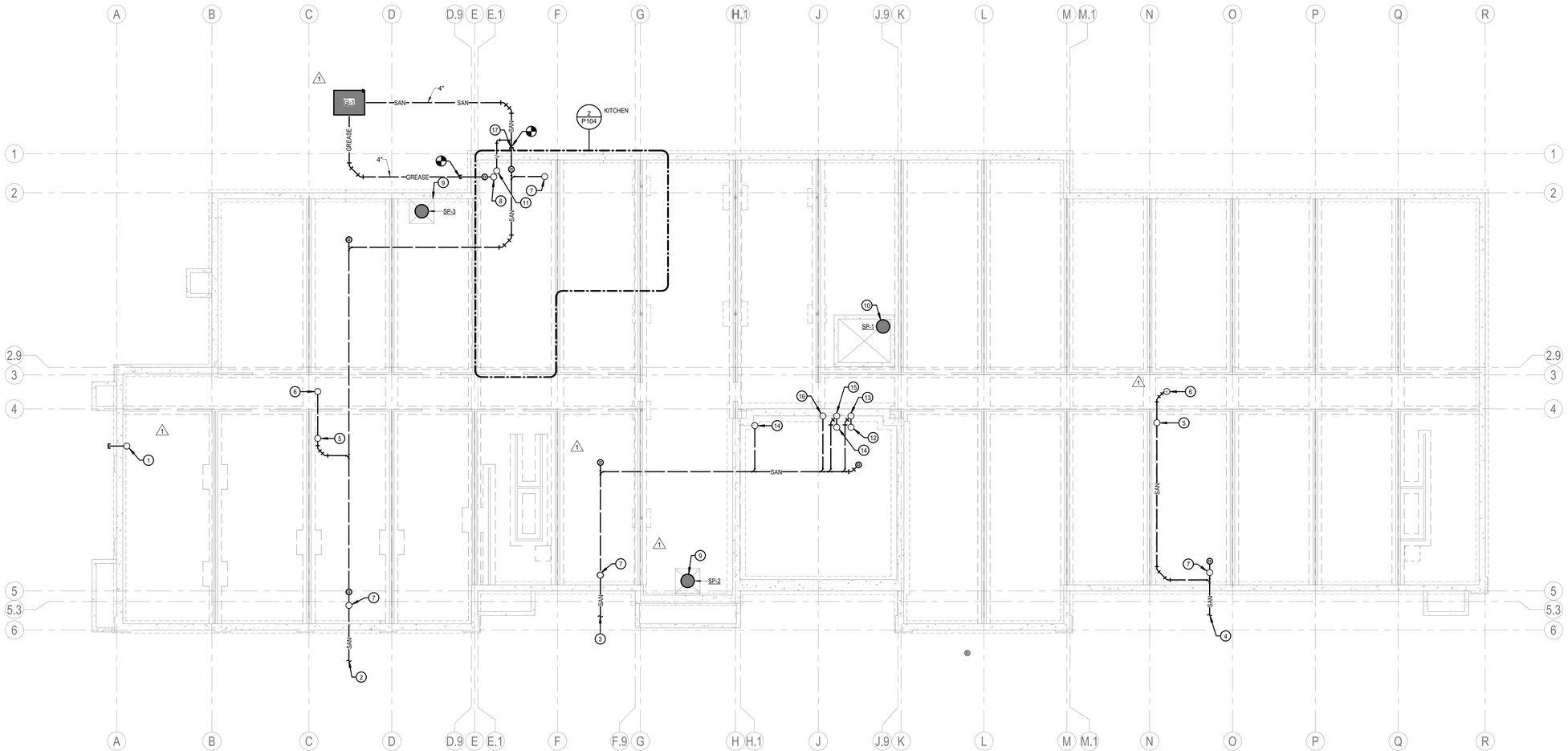
Booly, Charles
Wednesday, April 29, 2026 10:59:40 AM
Booly, Charles
Friday, May 1, 2026 4:21:37 PM

PLAN NOTES:

1. 6" COMBINED DOMESTIC WATER AND FIRE SERVICE ENTRANCE LOCATION. APPROXIMATE FLOWLINE 66" BELOW FINISHED FLOOR.
2. 4" SANITARY SEWER SERVICE ENTRANCE LOCATION. 76 DFU LOAD. APPROXIMATE FLOWLINE 47" BELOW FINISHED FLOOR. REFER TO CIVIL DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITIES CONTRACTOR PRIOR TO INSTALLATION.
3. 4" SANITARY SEWER SERVICE ENTRANCE LOCATION. 122 DFU LOAD. APPROXIMATE FLOWLINE 36" BELOW FINISHED FLOOR. REFER TO CIVIL DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITIES CONTRACTOR PRIOR TO INSTALLATION.
4. 4" SANITARY SEWER SERVICE ENTRANCE LOCATION. 93 DFU LOAD. APPROXIMATE FLOWLINE 35" BELOW FINISHED FLOOR. REFER TO CIVIL DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITIES CONTRACTOR PRIOR TO INSTALLATION.
5. 1-1/2" VENT UP THRU FLOOR.
6. 2" SAN UP TO FLOOR DRAIN.
7. 4" SAN UP THRU FLOOR.
8. 4" GREASE ENTRANCE LOCATION. APPROXIMATE FLOWLINE 30" BELOW CRAWL SPACE FINISHED FLOOR.
9. COORDINATE SLAB LEAVE OUT FOR SUMP PUMP. REFER TO ARCHITECTURAL FOR EXACT LOCATION.
10. ELEVATOR SUMP PIT BY STRUCTURAL.
11. 3" VENT UP THRU FLOOR.
12. 4" SAN UP THRU FLOOR TO WATER CLOSET.
13. 2" VENT UP THRU FLOOR.
14. 2" SAN UP THRU FLOOR TO WATER CLOSET.
15. 1-1/2" VENT UP THRU FLOOR.
16. 2" SAN UP THRU FLOOR.
17. 4" SANITARY ENTRANCE LOCATION TO SINK/LAV. APPROXIMATE FLOWLINE 38" BELOW CRAWL SPACE FINISHED FLOOR.

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. CAREFULLY COORDINATE PIPE ROUTING WITH NEW AND EXISTING STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
3. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
4. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
5. PLUMBING CONTRACTOR TO BALANCE ALL HOT WATER RECIRCULATION CIRCUIT SETTERS TO 0.25 GPM.




1 LOWER LEVEL UNDERSLAB PLUMBING PLAN
1/8" = 1'-0"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| 1 | 01/23/26 | BP2.0R, ADD2.0 |
| 2 | 02/01/2026 | BP2.0R, ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## FIRST FLOOR UNDERSLAB PLUMBING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P001

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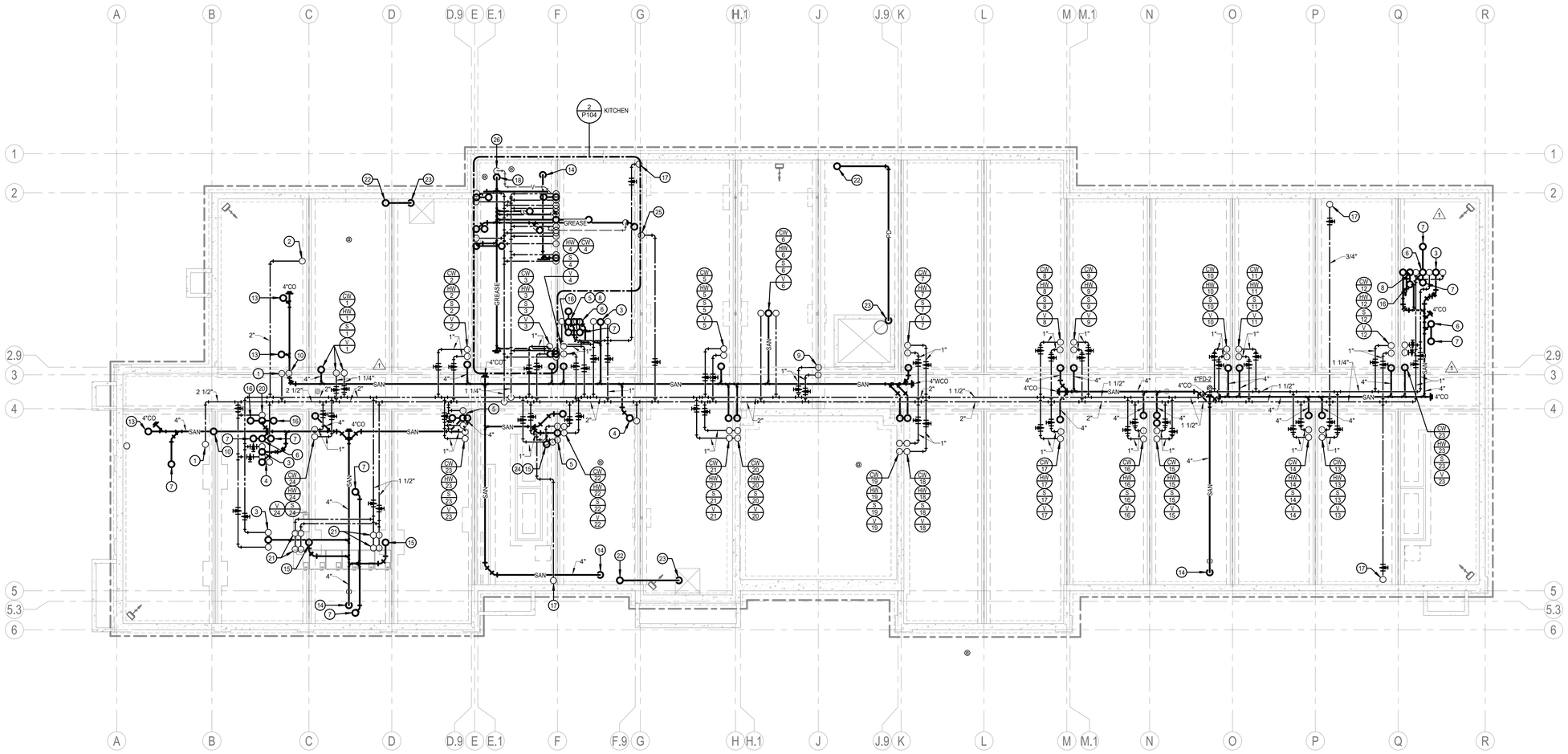
5/1/2026 4:30:25 PM

GENERAL NOTES:

1. REFER TO SHEET P100 FOR GENERAL NOTES.

PLAN NOTES:

1. 2-1/2" CW UP THRU FLOOR.
2. 2" HW UP THRU FLOOR.
3. 1/2" CW, 1/2" HW, 2" SAN UP TO LAV/SINK.
4. 1/2" CW, 2" SAN UP TO DRINKING FOUNTAIN.
5. 3/4" CW, 3/4" HW, 2" SAN UP TO JANITOR SINK.
6. 1-1/2" VENT UP.
7. 2" SAN UP TO FLOOR DRAIN.
8. 2" VENT, 1/2" CW UP THRU FLOOR TO SERVE WATER CLOSET.
9. 1-1/4" HW, 1-1/2" CW UP THRU FLOOR.
10. 2" VENT UP THRU FLOOR.
11. 3" VENT UP THRU FLOOR.
12. 3" SAN UP THRU FLOOR IN CHASE.
13. 4" SAN UP TO FLOOR DRAIN.
14. 4" SAN DOWN THRU FLOOR.
15. 4" SAN UP TO TRENCH DRAIN.
16. 4" SAN UP TO WATER CLOSET.
17. 3/4" CW UP TO WALL HYDRANT.
18. 4" GREASE UP/DOWN THRU FLOOR.
19. 2" SAN UP DRINKING FOUNTAIN.
20. 2" VENT, 1" CW UP THRU FLOOR TO SERVE WATER CLOSET.
21. 1-1/2" CW, 1-1/2" HW UP TO SERVE WASHING MACHINES.
22. 2" SUMP PUMP DRAIN UP THRU FLOOR.
23. 2" SUMP PUMP DRAIN DOWN TO SUMP PUMP.
24. 3/4" CW, 3/4" HW UP TO WASHING MACHINE.
25. 1/2" CW UP TO COFFEE MAKER. PROVIDE BACKFLOW PREVENTER PER SCHEDULE.
26. 3" VENT DOWN THRU FLOOR.




1 LOWER LEVEL PLUMBING PLAN
1/8" = 1'-0"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Owner

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205 Main Street
Parshall, ND 58770

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Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | | |
| | 09/18/2025 | Bid Package 2.0 |
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| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/26 | BP2.0R, ADD2.0 |
| 2 | 01/28/26 | Rd. 1 Plan Checks Comments |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## LOWER LEVEL PLUMBING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P100

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5/1/2026 4:30:31 PM

PLAN NOTES:

1. 2-1/2" DOMESTIC WATER SERVICE LOCATION WITH RPZ BACKFLOW PREVENTOR, AND PRESSURE REGULATOR. REFER TO DETAIL.
2. LP GAS METER LOCATION. 1550 MBH LOAD AT 10 PSI TO 2 PSI PRESSURE.
3. 1/2" CW, 1/2" HW, 1-1/2" VENT DOWN TO LAV/SINK.
4. 2-1/2" CW DOWN THRU FLOOR.
5. 1-1/2" VENT DOWN TO JANITOR SINK.
6. 1-1/2" VENT DOWN.
7. 2-1/2" CW DOWN THRU FLOOR.
8. 2" HW DOWN THRU FLOOR.
9. 3/4" CW UP THRU ROOF.
10. 3/4" LP GAS UP THRU ROOF.

△2

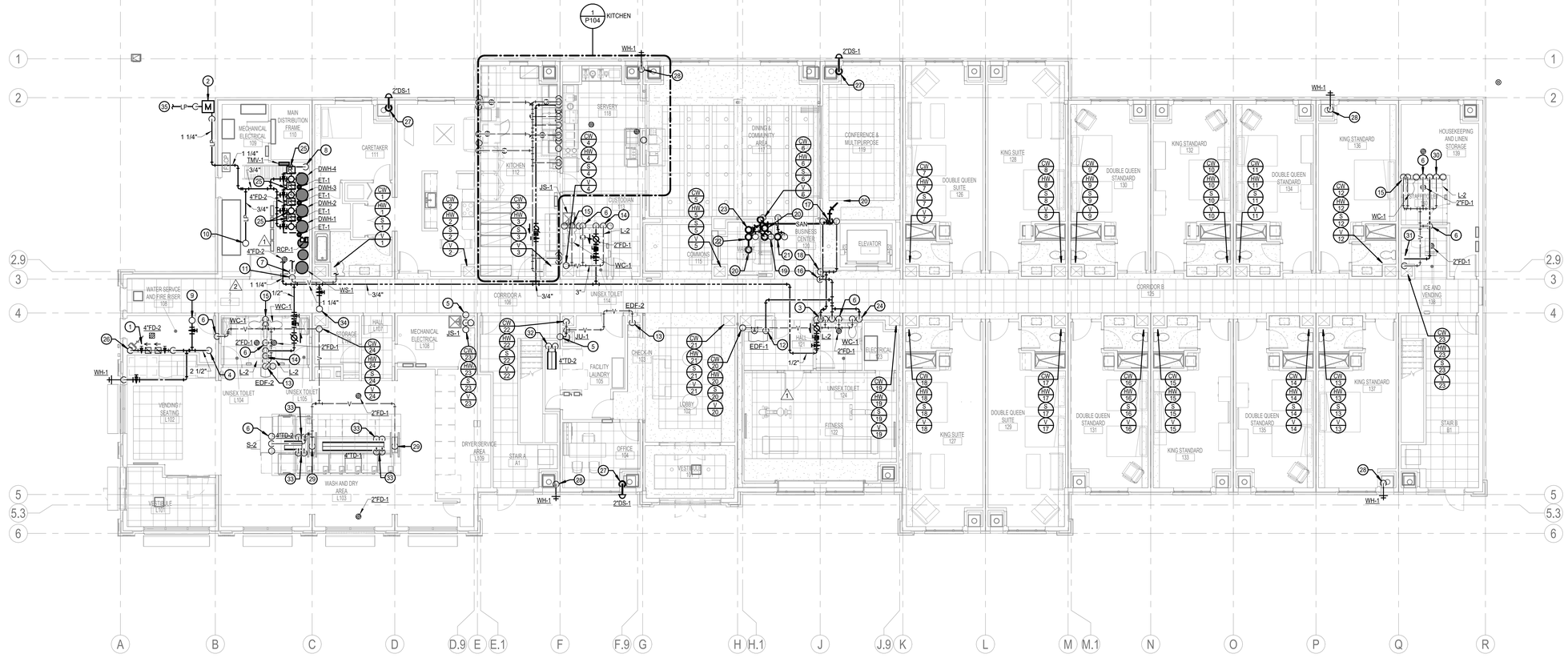
11. 2" VENT DOWN THRU FLOOR.
12. 1/2" CW, 1-1/2" VENT DOWN TO DRINKING FOUNTAIN.
13. 1-1/2" VENT DOWN TO DRINKING FOUNTAIN.
14. 1/2" HWRC, 1-1/2" VENT DOWN TO SINK/LAV.
15. 3" VENT DOWN TO WATER CLOSET.
16. 3/4" HW, 1" CW DOWN THRU FLOOR.
17. 3/4" CW, 3/4" HW, 2" VENT UP TO JANITORS SINK.
18. 3" SAN DOWN THRU FLOOR.
19. 1-1/2" VENT UP THRU FLOOR.
20. 2" SAN UP TO FLOOR DRAIN.
21. 2" SAN, 1/2" CW, 1/2" HW UP TO LAV/SINK.
22. 3" VENT, 1/2" CW UP TO WATER CLOSET.
23. 4" SAN UP TO WATER CLOSET.
24. 3" VENT, 1/2" CW DOWN TO WATER CLOSET.
25. PROVIDE VENTLESS LP GAS WATER HEATER REGULATOR. INLET PRESSURE IS 2 PSI AND OUTLET PRESSURE IS 11" WC. COORDINATE LOAD WITH EQUIPMENT PROVIDED.
26. 6" COMBINED FIRE AND DOMESTIC WATER DOWN THRU FLOOR. CONNECT TO EXISTING 6" DOMESTIC PIPE.
27. 2" SUMP PUMP DRAIN DOWN THRU FLOOR.
28. 3/4" DOWN THRU FLOOR.
29. 3" VENT DOWN TO FLOOR DRAIN.
30. 1/2" HW, 1-1/2" VENT DOWN TO LAV/SINK.

PLAN NOTES:

31. 3" VENT, UP THRU CHASE. 1/2" HW TO CONNECT TO HW IN CHASE.
32. 3/4" CW, 3/4" HW TO CONNECT TO WASHING MACHINE.
33. 1-1/2" CW, 1-1/2" HW DOWN TO FLOOR BELOW. EXTEND PIPING MAINS BEHIND WASHERS, MOUNTED ABOVE THE FLOOR. PROVIDE 3/4" CW, 3/4" HW STUBS WITH VALVE AND THREADED CONNECTION WITH CAP FOR CONNECTION TO EACH WASHER. COORDINATE EXACT MOUNTING HEIGHT WITH WASHERS SUCH THAT PIPING AND POWER CONNECTION REMAIN ACCESSIBLE.
34. 1-1/4" HWRC UP THRU FLOOR.
35. 3/4" LP GAS @ 10PSI TO BURIED LP TANK. REFER TO SITE PLAN FOR CONTINUATION. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITES CONTRACTOR PRIOR TO INSTALLATION.

GENERAL NOTES:

1. REFER TO SHEET P100 FOR GENERAL NOTES.




1 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"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## FIRST FLOOR PLUMBING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P101

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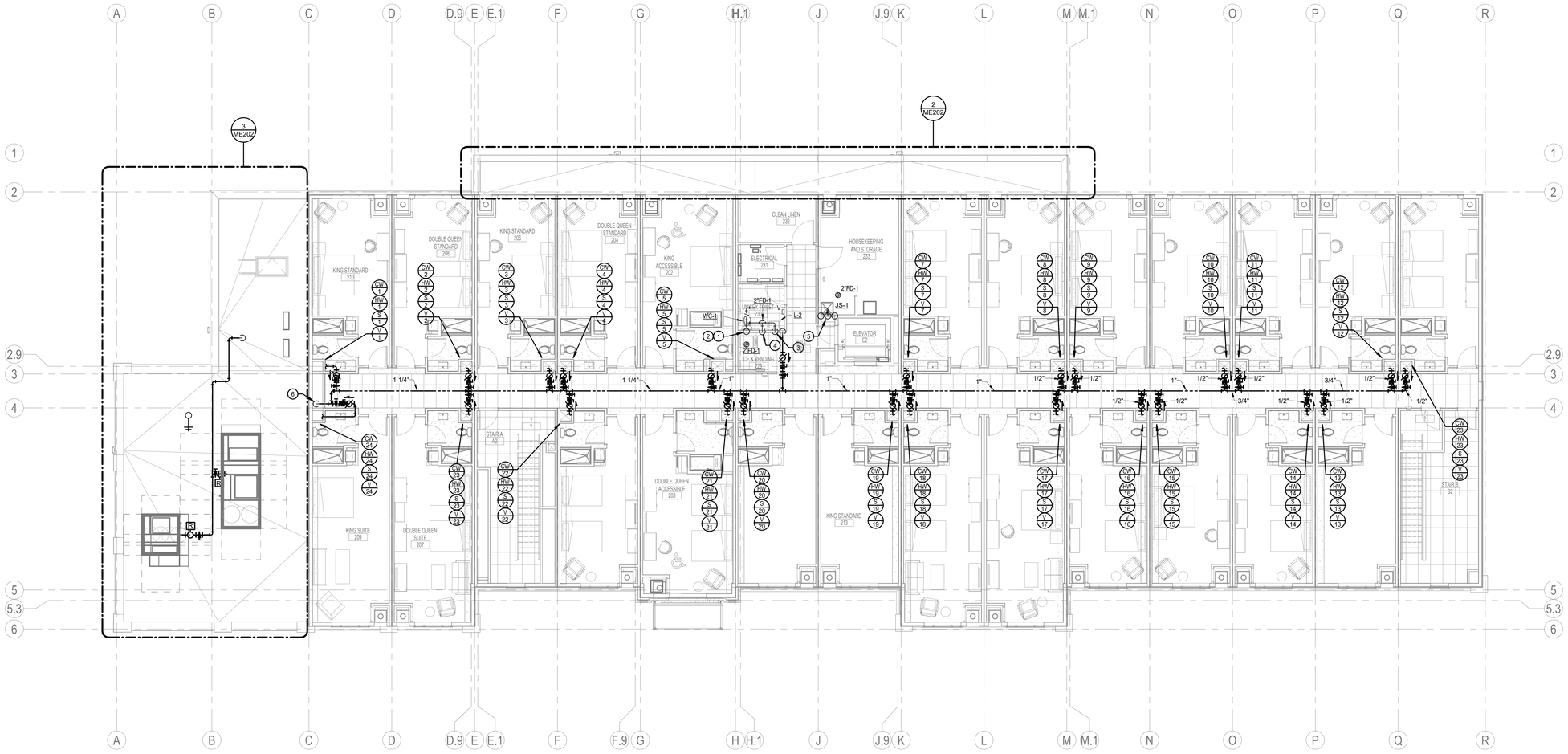
GENERAL NOTES:

1. REFER TO SHEET P100 FOR GENERAL NOTES.

PLAN NOTES:

1. 3" VENT UP THRU ROOF.
2. 2" VENT DOWN TO WATER CLOSET.
3. 1-1/2" VENT, 1/2" HWRC DOWN TO LAV/SINK.
4. 1-1/2" VENT DOWN THRU FLOOR IN WALL.
5. 1-1/2" VENT DOWN TO JANITORS CLOSET.
6. 1-1/4" HWRC DOWN THRU FLOOR IN CHASE.




1 SECOND FLOOR PLUMBING PLAN
1/8" = 1'-0"

5/1/2026 4:30:45 PM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913.345.2127

Albertson Engineering Inc.
102 W. Main, Suite C
Rapid City, SD 57702
605.343.9606

Smith & Boucher, Inc.
29618 W 103rd St.
Olathe, KS 66061
913.345.2127
Project Number 2516701

Headwaters Development
6757 Karnert Ave NE
Albertville, MN 55301

Boelter
Foodservice Design, Equipment & Supply
boelter.com


Consultants

Mandan, Hidatsa and Arikara Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## SECOND FLOOR PLUMBING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P102

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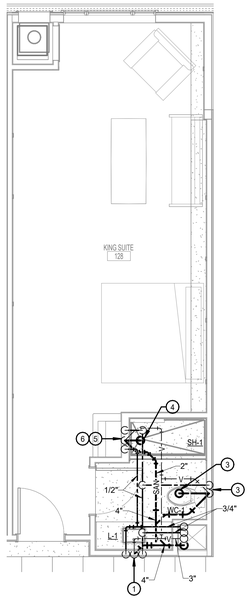
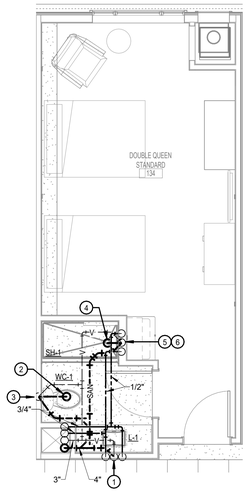
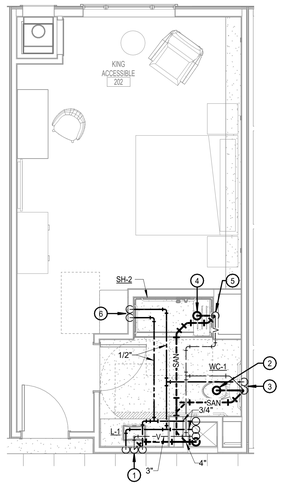


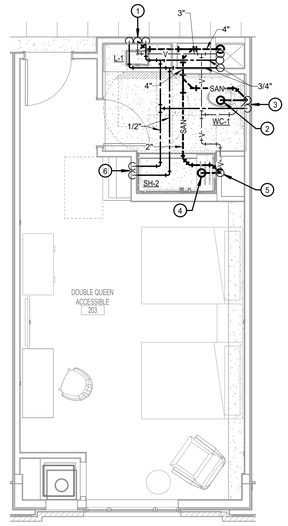

1 PLUMBING UNIT PLAN - KING SUITE
1/4" = 1'-0"




2 PLUMBING UNIT PLAN - DOUBLE QUEEN STANDARD
1/4" = 1'-0"




3 PLUMBING UNIT PLAN - KING ACCESSIBLE
1/4" = 1'-0"



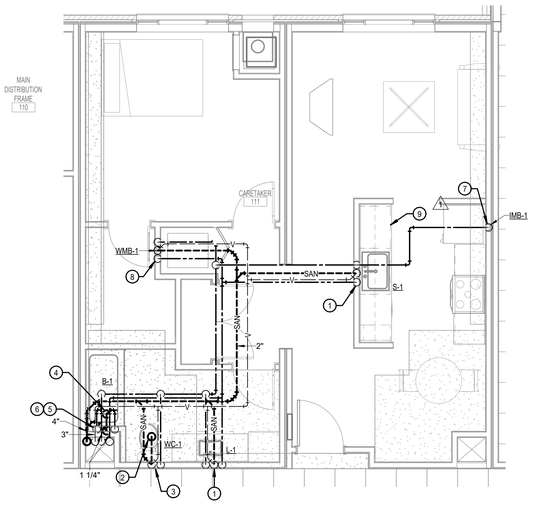

4 PLUMBING UNIT PLAN - DOUBLE QUEEN DELUXE ACCESSIBLE
1/4" = 1'-0"

GENERAL NOTES:

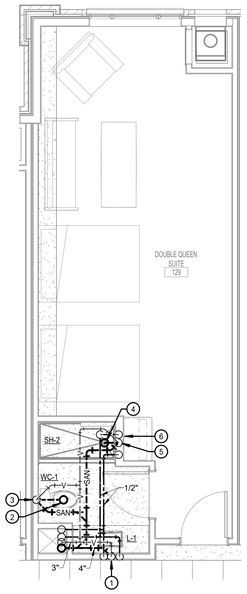
1. REFER TO SHEET P001.

PLAN NOTES:

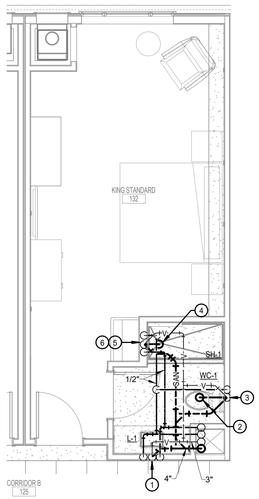
1. 1/2" CW, 1/2" HW, 1-1/2" VENT DOWN TO LAV. 2" SAN UP TO LAV.
2. 4" SAN UP TO WATER CLOSET.
3. 1/2" CW, 2" VENT DOWN TO WATER CLOSET.
4. 2" SAN UP TO SHOWER/TUB.
5. 1-1/2" VENT DOWN TO SHOWER/TUB.
6. 1/2" CW, 1/2" HW DOWN TO SHOWER/TUB.
7. 1/2" CW DOWN TO ICE MAKER BOX
8. 1-1/2" VENT, 1/2" CW, 1/2" HW DOWN TO WASHING MACHINE BOX. 2" SAN UP TO WASHER MACHINE BOX.
9. TEE SUPPLY PIPING FOR DISWASHER OFF SUPPLY PIPING FOR SINK WITH SHUT OFF VALVE. CONNECT DISHWASHER DRAIN TO SINK DRAIN.




5 PLUMBING UNIT PLAN - CARETAKER
1/4" = 1'-0"




6 PLUMBING UNIT PLAN - DOUBLE QUEEN SUITE
1/4" = 1'-0"




7 PLUMBING UNIT PLAN - KING STANDARD
1/4" = 1'-0"

5/1/2026 4:30:54 PM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605.343.9606

Smith & Boucher, Inc.
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913.345.2127
Project Number 2516701

HEADWATERS
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New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/26 | BP2.0R, ADD2.0 |
| 2 | 01/28/26 | Rd. 1 Plan Checks Comments |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## UNITS PLUMBING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P103

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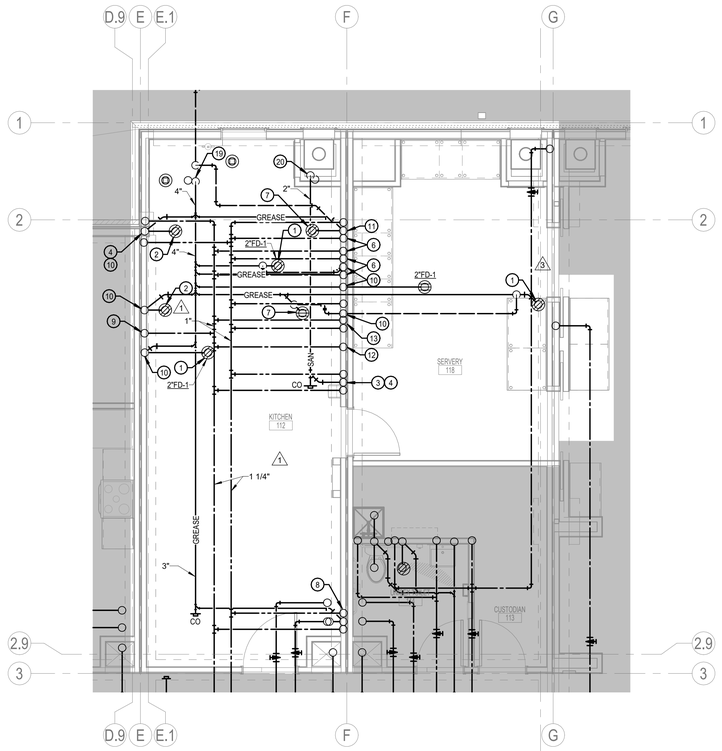
GENERAL NOTES:

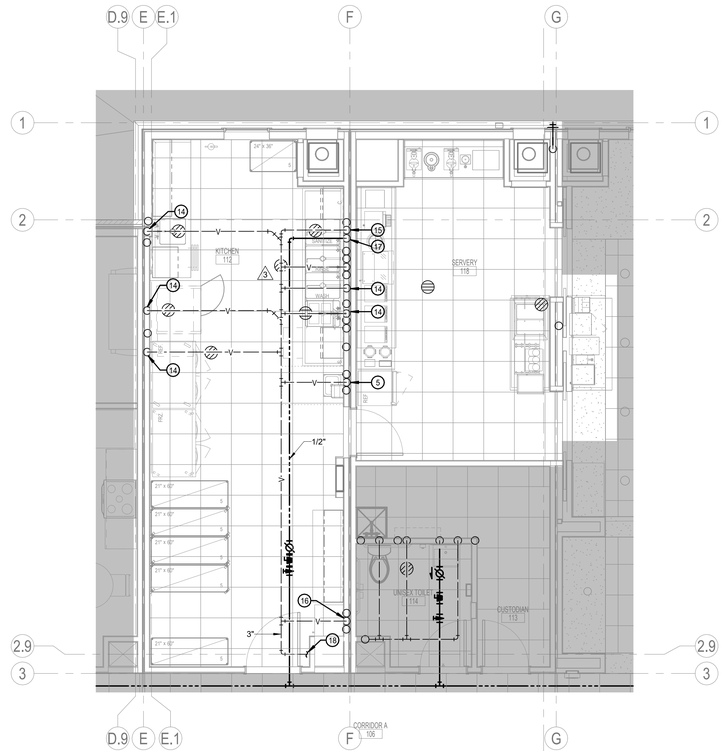
1. REFER TO SHEET P001.

PLAN NOTES:

1. 2" GREASE UP TO FLOOR DRAIN.
2. 2" GREASE UP TO FLOOR SINK.
3. 2" SAN UP TO LAV/SINK.
4. 1/2" CW, 1/2" HW UP TO SINK/LAV
5. 1-1/2" VENT DOWN TO SINK/LAV.
6. 3/4" CW, 3/4" HW UP TO THREE COMPARTMENT SINK.
7. 4" GREASE UP TO FLOOR DRAIN.
8. 3/4" CW, 3/4" HW AND 3" GREASE UP TO MOP SINK.
9. 3/4" CW UP TO COMBINATION OVEN W/ WATER FILTER PROVIDE BACKFLOW PREVENTER.
10. 1-1/2" VENT UP THRU FLOOR IN WALL.
11. 3" VENT UP THRU FLOOR IN WALL.
12. 1/2" CW, 1/2" HW UP TO DISHWASHER.
13. 3/4" CW, 3/4" HW UP TO SINK/LAV.
14. 1-1/2" VENT DOWN THRU FLOOR IN WALL.
15. 3" VENT DOWN THRU FLOOR IN WALL.
16. 2" VENT DOWN TO MOP SINK.
17. 1/2" HWRC DOWN THRU FLOOR.
18. 3" VENT UP THRU FLOOR IN CHASE.
19. 4" GREASE DOWN TO CONNECT TO EXISTING GREASE PIPE IN EARLIER PHASE.
20. 4" SAN DOWN TO CONNECT TO EXISTING SAN PIPE IN EARLIER PHASE.




2 UNDERSLAB PLUMBING PLAN - LEVEL 1 - KITCHEN
1/4" = 1'-0"




1 PLUMBING PLAN - KITCHEN
1/4" = 1'-0"

5/1/2026 4:31:00 PM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Project Number 2516701

Albertson Engineering Inc.
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Consultants

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Owner

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205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/26 | BP2.0R, ADD2.0 |
| 2 | 01/28/26 | Rd. 1 Plan Checks Comments |
| 3 | 03/24/2026 | RFI#021 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## ENLARGED PLUMBING PLAN - KITCHEN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P104

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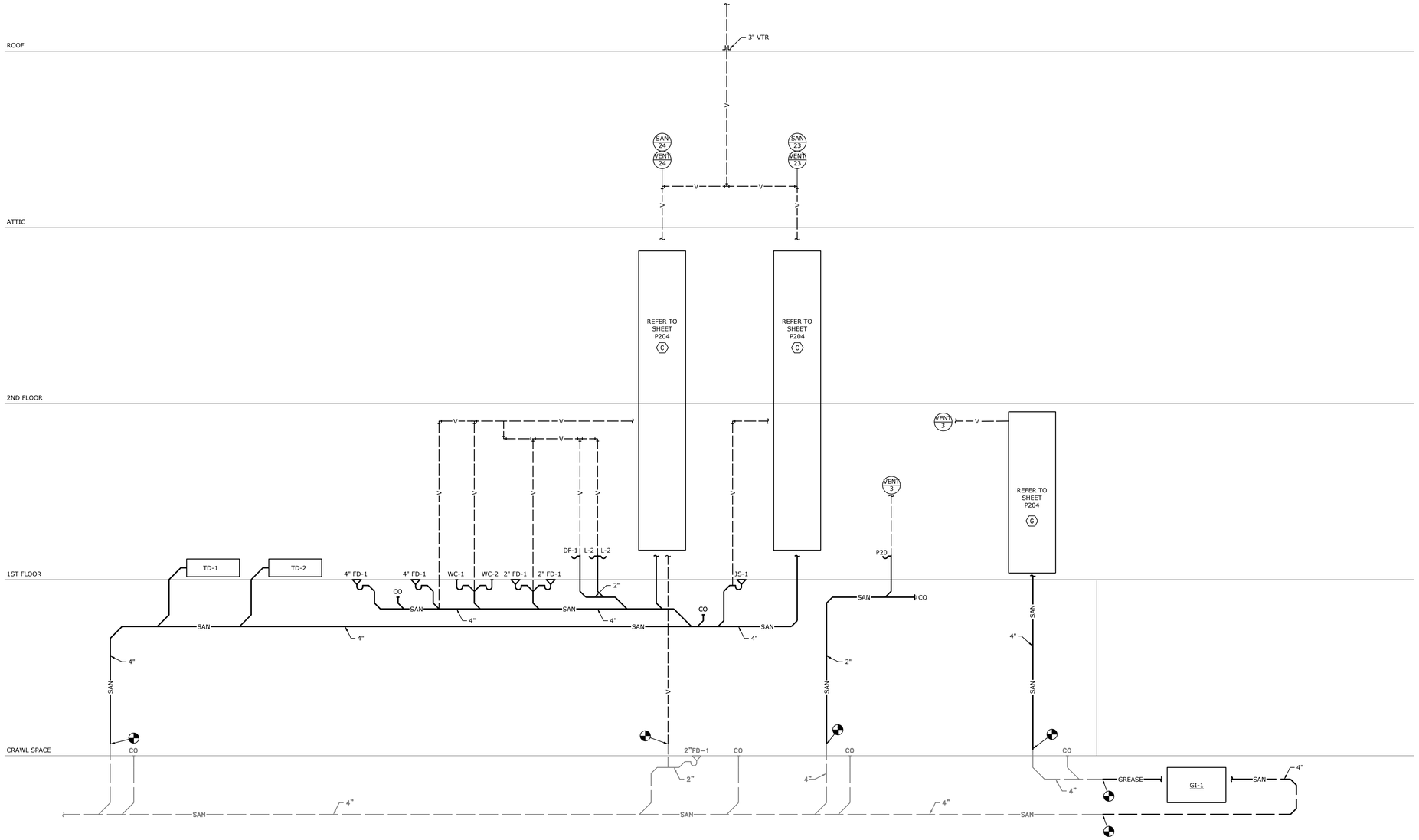


## PLUMBING RISER DIAGRAM

NTS


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Spectrum Mechanical Consultants P.C.
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913.345.2127
Project Number: 2318701

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5757 Karment Ave NE
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Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## PLUMBING - RISER DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P201

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2316701 Parshall Hotel
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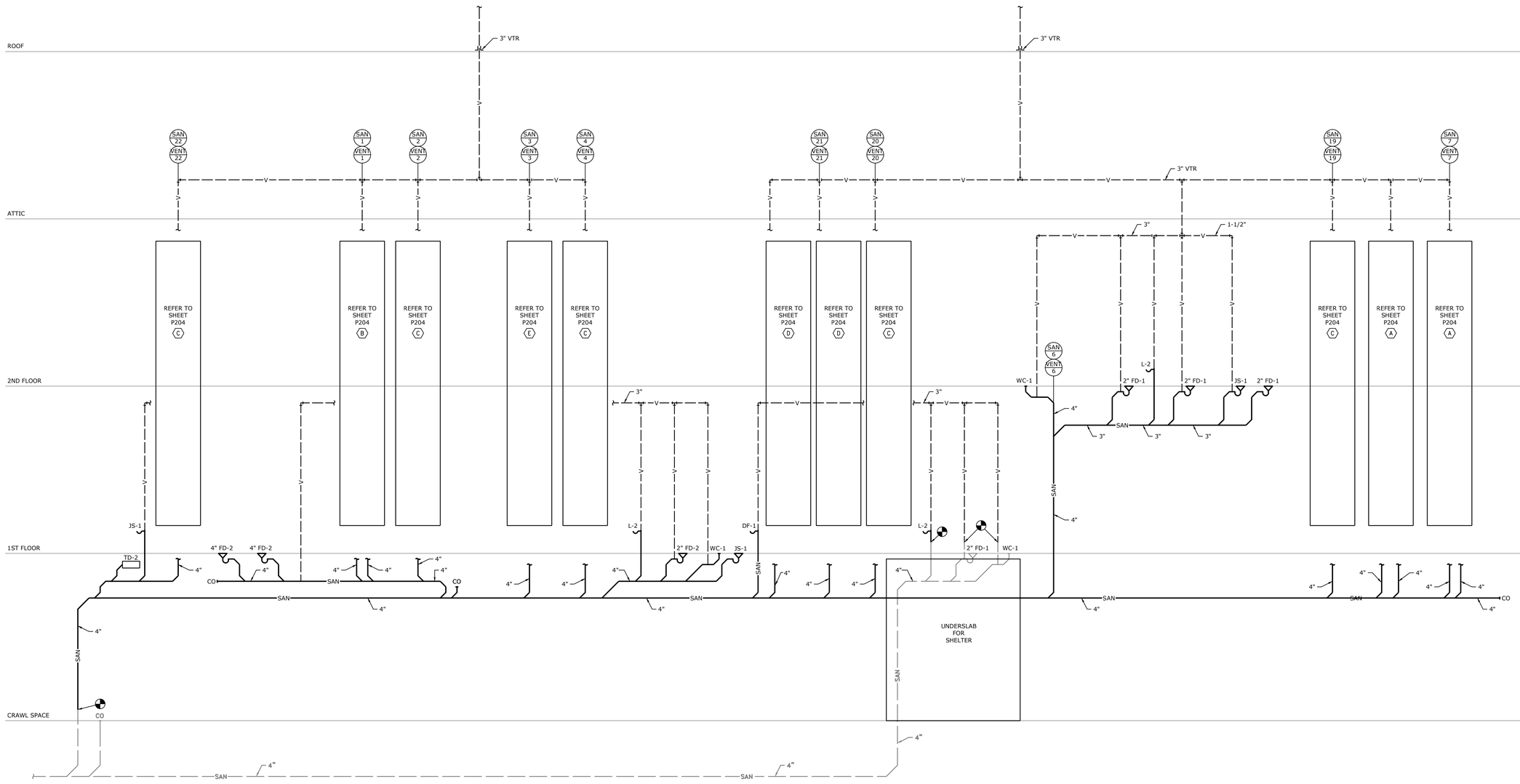


## PLUMBING RISER DIAGRAM

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Project Number: 251870

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REBID DOCUMENTS

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| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

PLUMBING - RISER DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P202

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Central File
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PROJECT NAME
AUTHOR ♦ FILE LOCATION \ NAME
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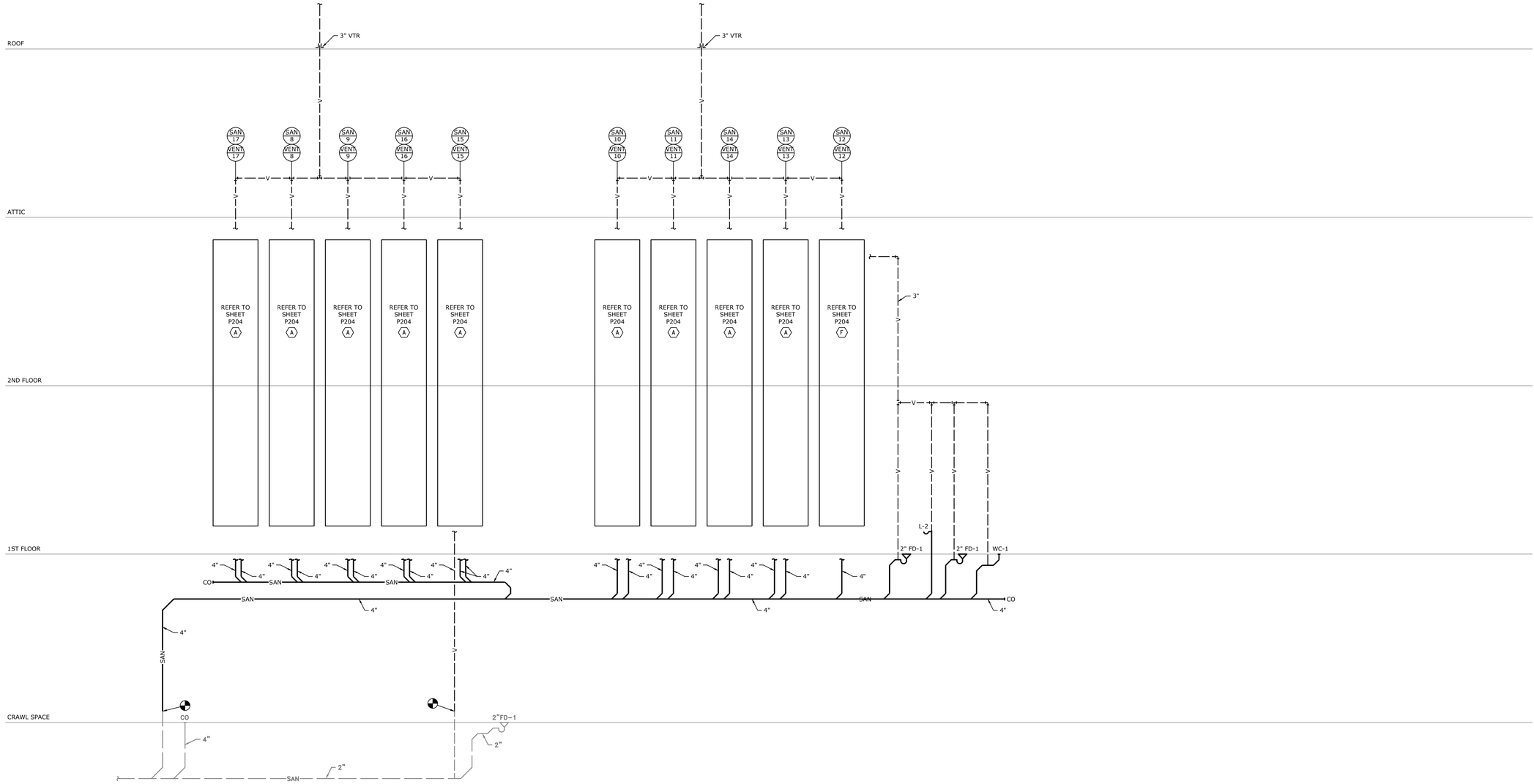


## PLUMBING RISER DIAGRAM
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Certification

REBID DOCUMENTS

Project Phase

**Revisions**

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|---|---|---|
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| | 12/01/2025 | Modular Package |
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| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

PLUMBING - RISER DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P203

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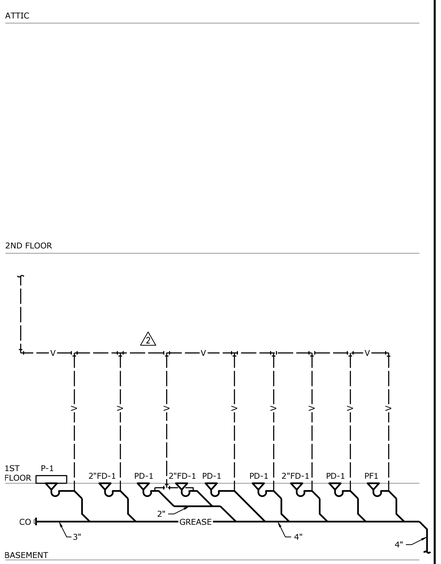


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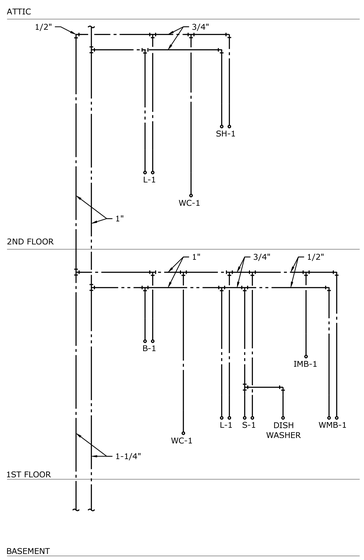


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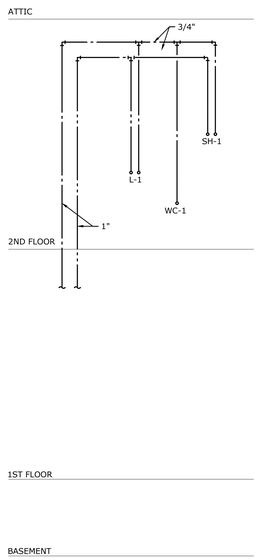


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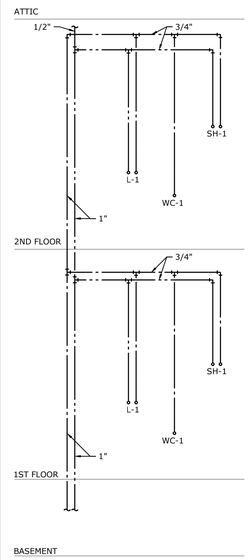
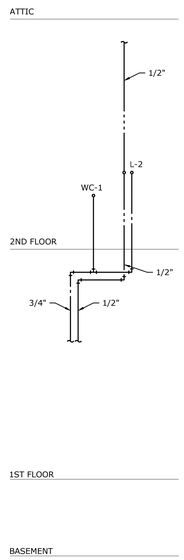
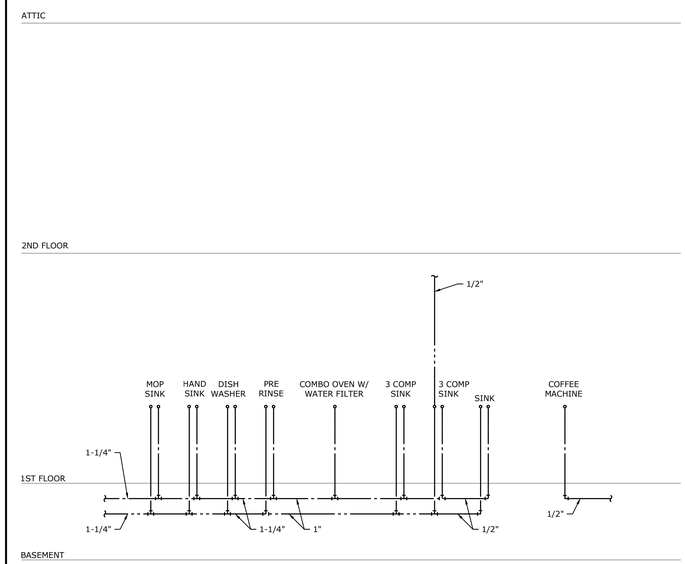



**RISER J**
NTS




**RISER K**
NTS




**RISER L (KITCHEN)**
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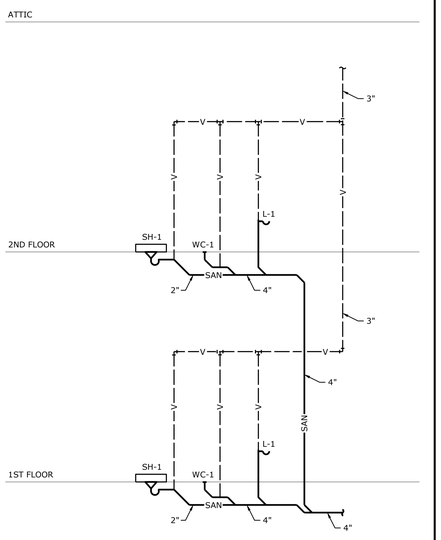
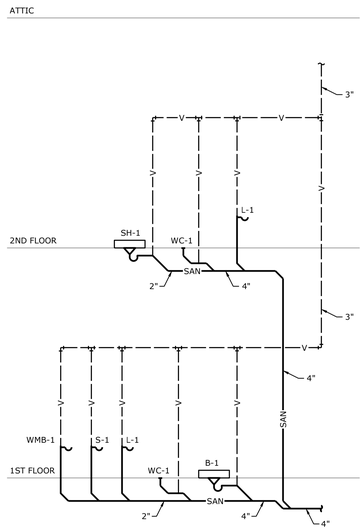
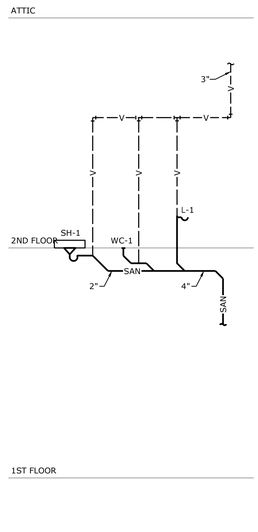


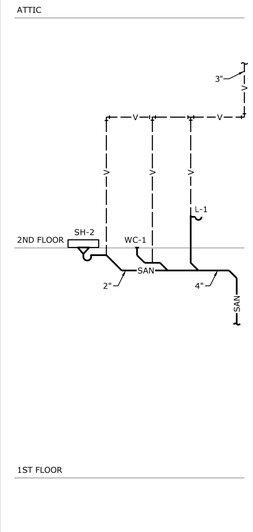

**RISER A**
NTS



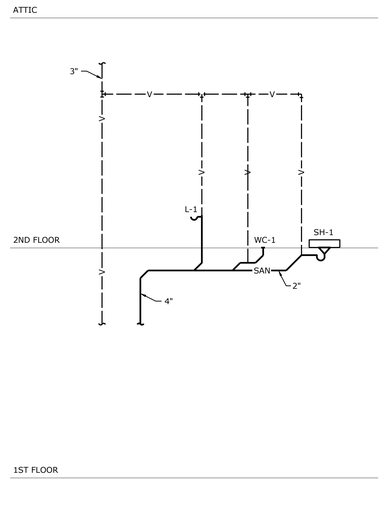

**RISER B**
NTS



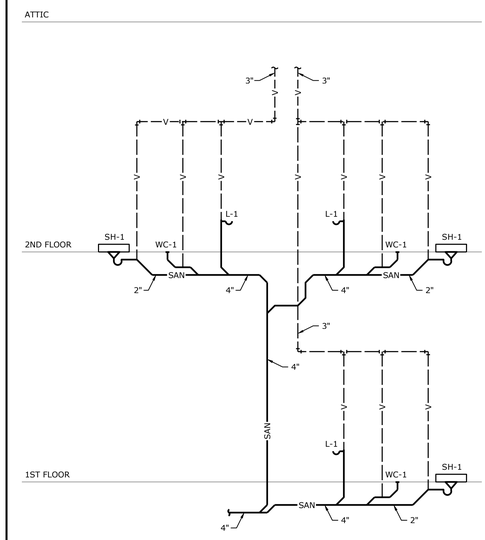

**RISER C**
NTS




**RISER D**
NTS




**RISER E**
NTS




**RISER F**
NTS

**PLUMBING RISER DIAGRAMS**
NTS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Project Number: 2516701

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Boelter
Foodservice Design, Equipment & Supply
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Consultants

Mandan, Hidatsa and Arikara Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

PLUMBING - RISER DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P204

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2516701 Parshall Hotel
4-4-Plumbing-Riser_Diagrams.dwg
Bodyc
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Bodyc Charles
Friday, May 1, 2026 4:22:03 PM

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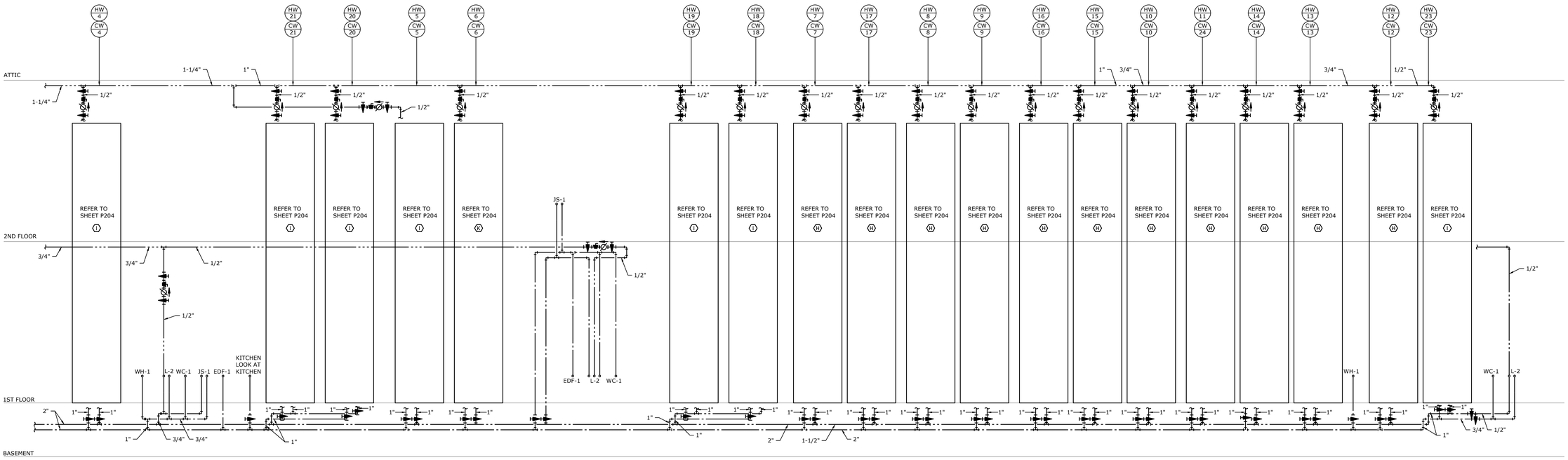
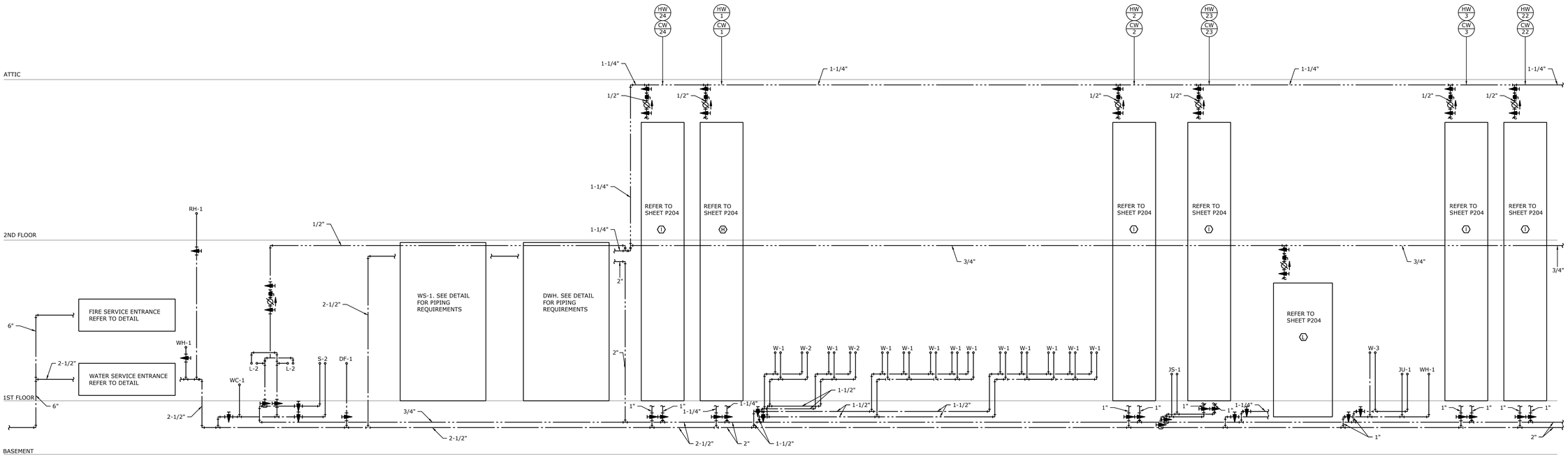
AUTODESK FILE LOCATION \ NAME:
LAST CORRECTION BY: ◆ DATE: ◆ TIME:
PLOTTED BY: ◆ DATE: ◆ TIME:




## DOMESTIC WATER PLUMBING RISER DIAGRAMS

NTS




## DOMESTIC WATER PLUMBING RISER DIAGRAMS

NTS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205 Main Street
Parshall, ND 58770

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REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

PLUMBING - RISER DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
P205

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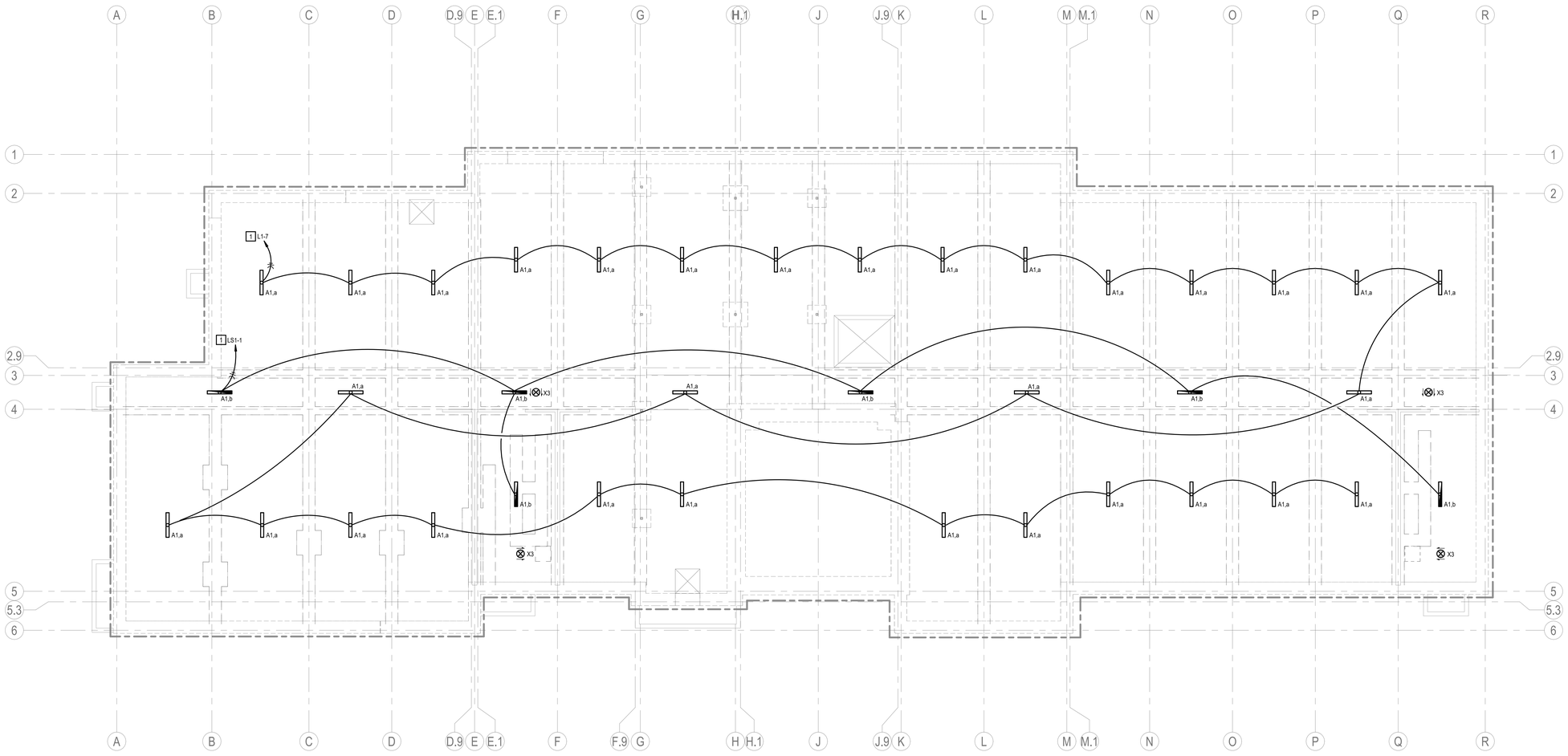
231701 Parshall Hotel
Bootyc
Booty Charles
Wednesday, April 29, 2026 11:01:16 AM
Friday, May 1, 2026 4:22:09 PM
PROJECT NAME & LOCATION \ NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:

GENERAL NOTES:

1. REFER TO SHEET E101 FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

1 ALL LIGHT FIXTURES IN CRAWLSPACE TO BE CONTROLLED VIA KEYED 3-WAY SWITCHES LOCATED AT EACH CRAWLSPACE ENTRANCE. REFER TO SHEET E101 FOR THE EXACT LOCATIONS.




2 LOWER LEVEL LIGHTING PLAN
1/8" = 1'-0"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smith & boucher engineers
Smith & Boucher, Inc.
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Project Number 2516701
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New Town, ND 58763

Owner

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205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## LOWER LEVEL LIGHTING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E100

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5/1/2026 4:28:20 PM

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

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PLAN NOTES:

5 WALL MOUNT A1 FIXTURES IN THIS SPACE 7'-0" AFF.

6 COORDINATE FINAL LOCATIONS OF LIGHT FIXTURES IN MDF ROOM WITH IT RACK LOCATIONS.

7 REFER TO LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

8 CIRCUIT CONTINUED IN 2ND FLOOR STAIRWELL.

9 LIGHTING CONTROLS WITHIN KITCHEN SPACE TO CONTROL LIGHT FIXTURES AND EXHAUST FAN WITHIN SPACE.

⚠1

10 LIGHTING CONTROL SYSTEM TOUCHPAD TO ONLY SERVE THE SCHEDULED LIGHTING IN THE LAUNDROMAT SPACE. REFER TO LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

11 LIGHTING CONTROL SYSTEM MASTER CONTROLLER TOUCHPAD FOR ENTIRE SYSTEM. REFER TO LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

12 **BASE BID:** NO WORK.

**ALTERNATE BID:** COVE LIGHTING 'C1'. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND ADDITIONAL INFORMATION.

GENERAL NOTES:

1. CIRCUIT ALL EMERGENCY FIXTURES, EMERGENCY LIGHTING CONTROL UNITS, AND EXIT SIGNS TO A LOCAL (ROOM) UNSWITCHED HOT CONDUCTOR.
2. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS FOR EXTERIOR BUILDING MOUNTED LIGHT FIXTURES.
3. ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES, PROVIDE # 10 AWG MINIMUM CONDUCTORS UNLESS NOTED OTHERWISE. APPLY SEALANT BETWEEN MOUNTING PLATE AND WALL SURFACE TO ENSURE A DRY J-BOX.
4. REFER TO ARCHITECTURAL FLOORING PLANS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF ALL LIGHT FIXTURES AND WALL MOUNTED ELECTRICAL DEVICES.
5. PATCH AND REPAIR ALL OPENINGS CREATED THAT PENETRATE FIRE RATED WALLS, FLOORS AND CEILING USING UL APPROVED METHODS AND MATERIALS CONSISTENT WITH THE RATING OF THE SURFACE PENETRATED.
6. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

   0-100' = #12 AWG
   101'-150' = #10 AWG
   151'-250' = #8 AWG

   GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.
7. ALL CONDUIT SHALL BE CONCEALED IN CMU AND/ OR FRAMED WALLS UNLESS OTHERWISE NOTED.
8. REFER TO SHEET E402 FOR THE DIAMOND NOTES THAT ARE PART OF "LIGHTING CONTROL REQUIREMENTS & DESCRIPTIONS - PER SPACE TYPE" SCHEDULE.
9. FOR SPACES WITH NO CEILING(S) AND EXPOSED TO STRUCTURE (OTS), CONDUIT AND APPLICABLE DEVICES SHALL NOT BE MOUNTED TO BOTTOM OF BEAM(S). ROUTE PARALLEL TO EXPOSED BEAM(S) AS INDICATED, UNLESS APPROVED BY ARCHITECT/ENGINEER. SUBMIT A RACEWAY ROUTING PLAN FOR APPROVAL BY ARCHITECT/ENGINEER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR CONDUIT RELOCATING DUE TO LACK OF COORDINATION WITH DESIGN TEAM.

PLAN NOTES:

1 CODE REQUIRED LOW LEVEL EXIT SIGN FOR GUESTROOM CORRIDORS. THE BOTTOM OF THE SIGN SHALL BE MOUNTED BETWEEN 10-12" AFF, THE EDGE OF THE SIGN SHALL BE WITHIN 4" OF THE EXIT DOOR FRAME.

2 COORDINATE FINAL LOCATIONS OF LIGHT FXITURES AND SWITCHES IN ELEVATOR HOISTWAY WITH ELEVATOR CONTRACTOR.

3 CIRCUIT CONTINUED IN 2ND FLOOR ELEVATOR HOISTWAY.

4 KEYED 3-WAY SWITCH TO CONTROL THE LIGHT FIXTURES WITHIN THE CRAWLSPACE. PROVIDE SWITCH WITH LABEL WHICH STATES "CRAWLSPACE LIGHTING".


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Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/26 | BP2.0R, ADD2.0 |
| 2 | 02/01/2026 | BP2.0R, ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## FIRST FLOOR LIGHTING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E101

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GENERAL NOTES:

1. REFER TO SHEET E101 FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

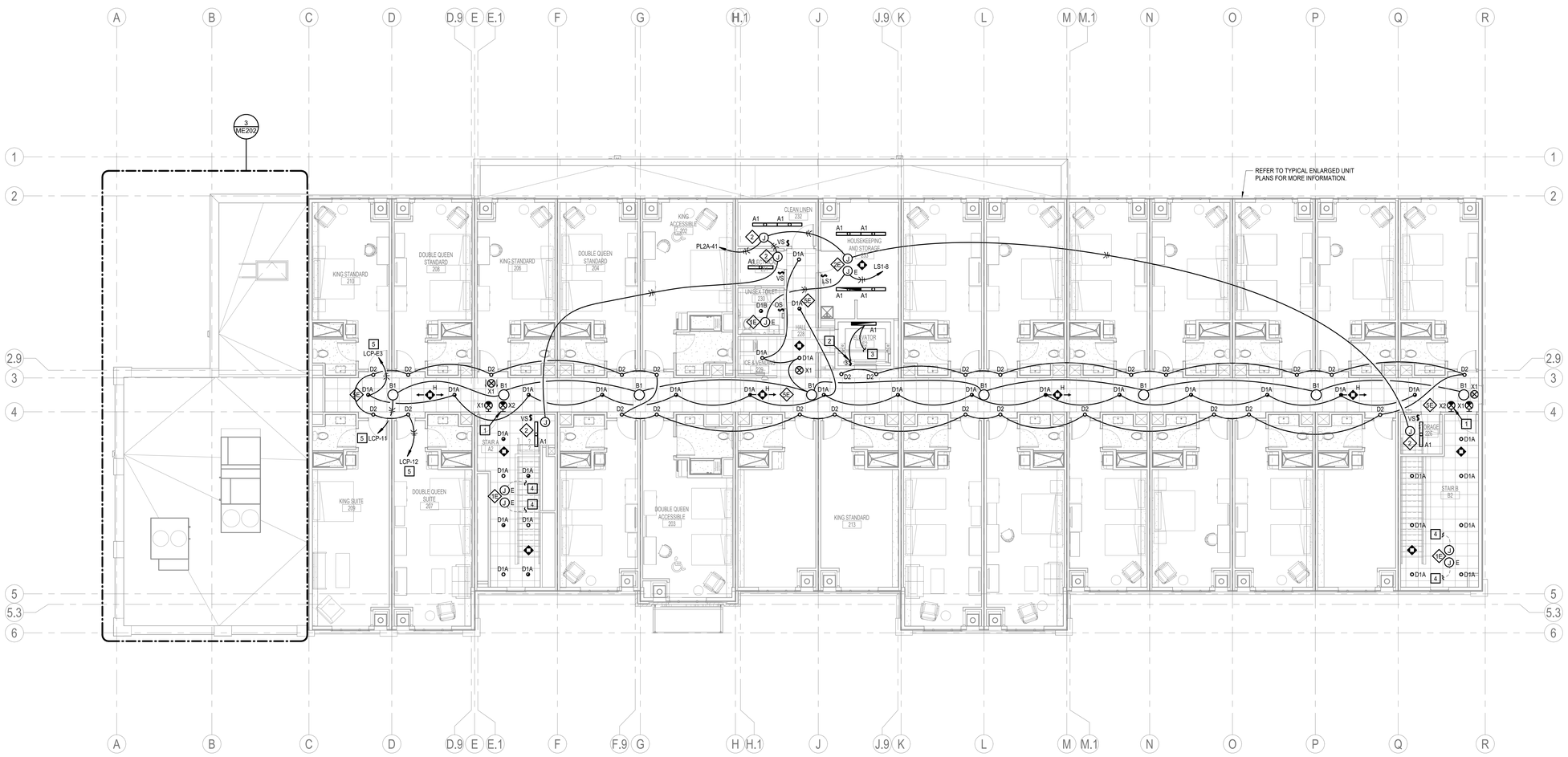
1 CODE REQUIRED LOW LEVEL EXIT SIGN FOR GUESTROOM CORRIDORS. THE BOTTOM OF THE SIGN SHALL BE MOUNTED BETWEEN 10-12" AFF, THE EDGE OF THE SIGN SHALL BE WITHIN 4" OF THE EXIT DOOR FRAME.

2 COORDINATE FINAL LOCATIONS OF LIGHT FIXTURES AND SWITCHES IN ELEVATOR HOISTWAY WITH ELEVATOR CONTRACTOR.

3 CIRCUIT CONTINUED IN 1ST FLOOR ELEVATOR HOISTWAY.

4 CIRCUIT CONTINUED IN 1ST FLOOR STAIRWELL.

5 REFER TO LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.




1 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"

5/1/2026 4:28:30 PM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Owner

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205 Main Street
Parshall, ND 58770

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REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## SECOND FLOOR LIGHTING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E102

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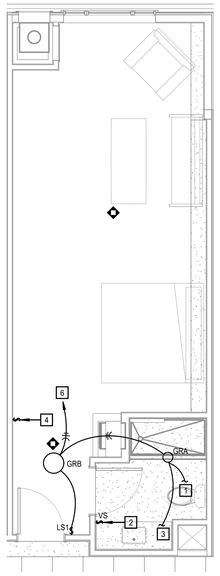
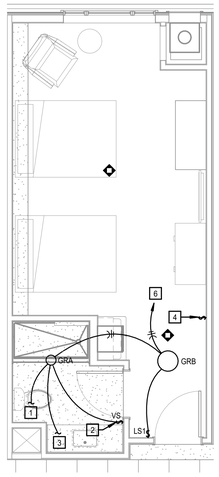
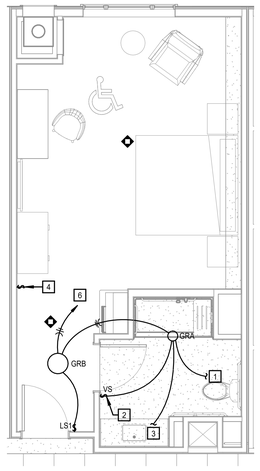


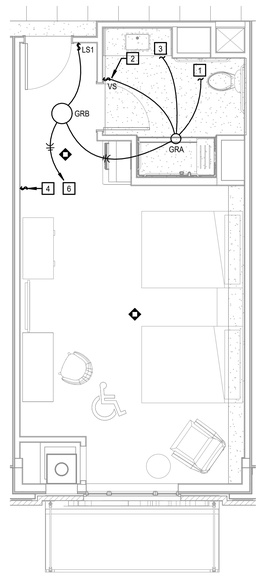

1 LIGHTING UNIT PLAN - KING SUITE
1/4" = 1'-0"



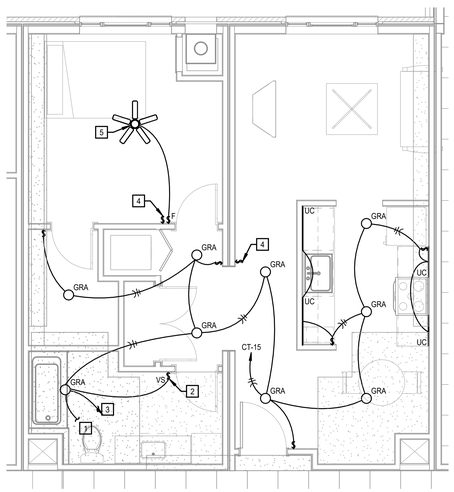

2 LIGHTING UNIT PLAN - DOUBLE QUEEN STANDARD
1/4" = 1'-0"




3 LIGHTING UNIT PLAN - KING ACCESSIBLE
1/4" = 1'-0"




4 ENLARGED LIGHTING - DOUBLE QUEEN DELUXE ACCESSIBLE
1/4" = 1'-0"




5 LIGHTING UNIT PLAN - CARETAKER
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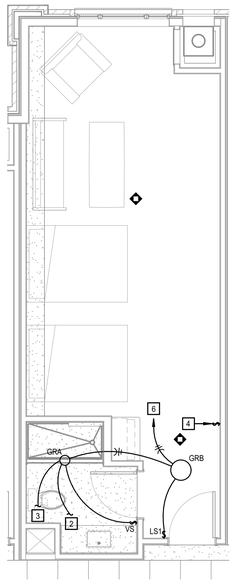
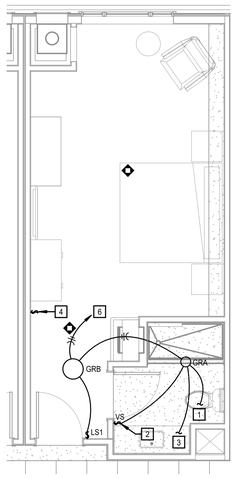



6 LIGHTING UNIT PLAN - DOUBLE QUEEN SUITE
1/4" = 1'-0"




7 LIGHTING UNIT PLAN - KING STANDARD
1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LIGHT FIXTURE LOCATIONS.
2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING LOCATION OF ALL WALL MOUNTED ELECTRICAL DEVICES. DEVICES NOT REFERENCED ON THE ARCHITECTURAL DRAWINGS ARE TYPICAL, UNLESS SPECIFICALLY NOTED OTHERWISE ON THIS SHEET. REFER TO TYPICAL MOUNTING HEIGHT DETAIL. SPECIFIC MOUNTING HEIGHTS NOTED ON THIS SHEET ARE MEASURED FROM THE CENTER LINE OF THE JUNCTION BOX.
3. PROVIDE (1) 1/2" CONDUIT FROM ALL THERMOSTATS UP TO ABOVE NEAREST ACCESSIBLE CEILING OR TO ASSOCIATED HVAC EQUIPMENT. REFER TO MECHANICAL PLANS AND ARCHITECTURAL ELEVATIONS FOR LOCATIONS.
4. EXTEND (1) 3/4" CONDUIT FROM EACH GUESTROOM PHONE, DATA OR TELEVISION OUTLET TO ABOVE THE NEAREST ACCESSIBLE CORRIDOR CEILING.
5. WHERE ANY DEVICE JUNCTION BOXES ARE RECESSED WITHIN OPPOSITE SIDES OF A FIRE RATED WALL AND ARE WITHIN 24" OF EACH OTHER MEASURED HORIZONTALLY. FURNISH AND INSTALL AN INTUMESCENT MOLDABLE FIRE STOP PUTTY PAD AROUND EACH JUNCTION BOX.
6. WHERE GUESTROOM DEVICES ARE LOCATED BACK-TO-BACK, SEPARATE JUNCTION BOXES AT LEAST 6" BUT NO MORE THAN 12" (6" MAX IN EITHER DIRECTION).
7. GUESTROOM SMOKE DETECTORS SHALL BE CONNECTED TOGETHER SO THAT IF ONE GOES INTO ALARM THEY ALL DO WITHIN THE SAME UNIT.
8. ALL RECEPTACLES IN GUESTROOMS ARE TO BE TAMPER RESISTANT TYPE.

PLAN NOTES:

1. CONNECT TO BATHROOM EXHAUST FAN. REFER TO MECHANICAL PLANS AND SCHEDULES FOR ADDITIONAL INFORMATION.
2. BATHROOM EXHAUST FAN AND LIGHT FIXTURES SWITCHED TOGETHER ON SAME LIGHT SWITCH.
3. CONNECT TO ELECTRICAL CONNECTION FOR ILLUMINATED MIRROR (SWITCHED WITH BATHROOM DOWNLIGHTS).
4. SWITCH LOCATION FOR SWITCHED RECEPTACLE. REFER TO POWER PLANS FOR LOCATION AND CIRCUITING.
5. PROVIDE SECURED J-BOX MOUNTED TO STRUCTURE FOR CEILING FAN. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. INSTALL AND SECURE J-BOX PER NEC 422.18(A), FOR FANS 35LBS OR LESS. INSTALL LABEL INSIDE BOX INDICATION MAXIMUM WEIGHT OF 35LBS.
6. REFER TO PANELBOARD SCHEDULES FOR CIRCUIT DESIGNATION.

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Landscape: Alliance Engineering
Interior Design: RML Architects
Fitness: Fitness Consultants

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Project Number: 2516701

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## UNITS LIGHTING PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E103

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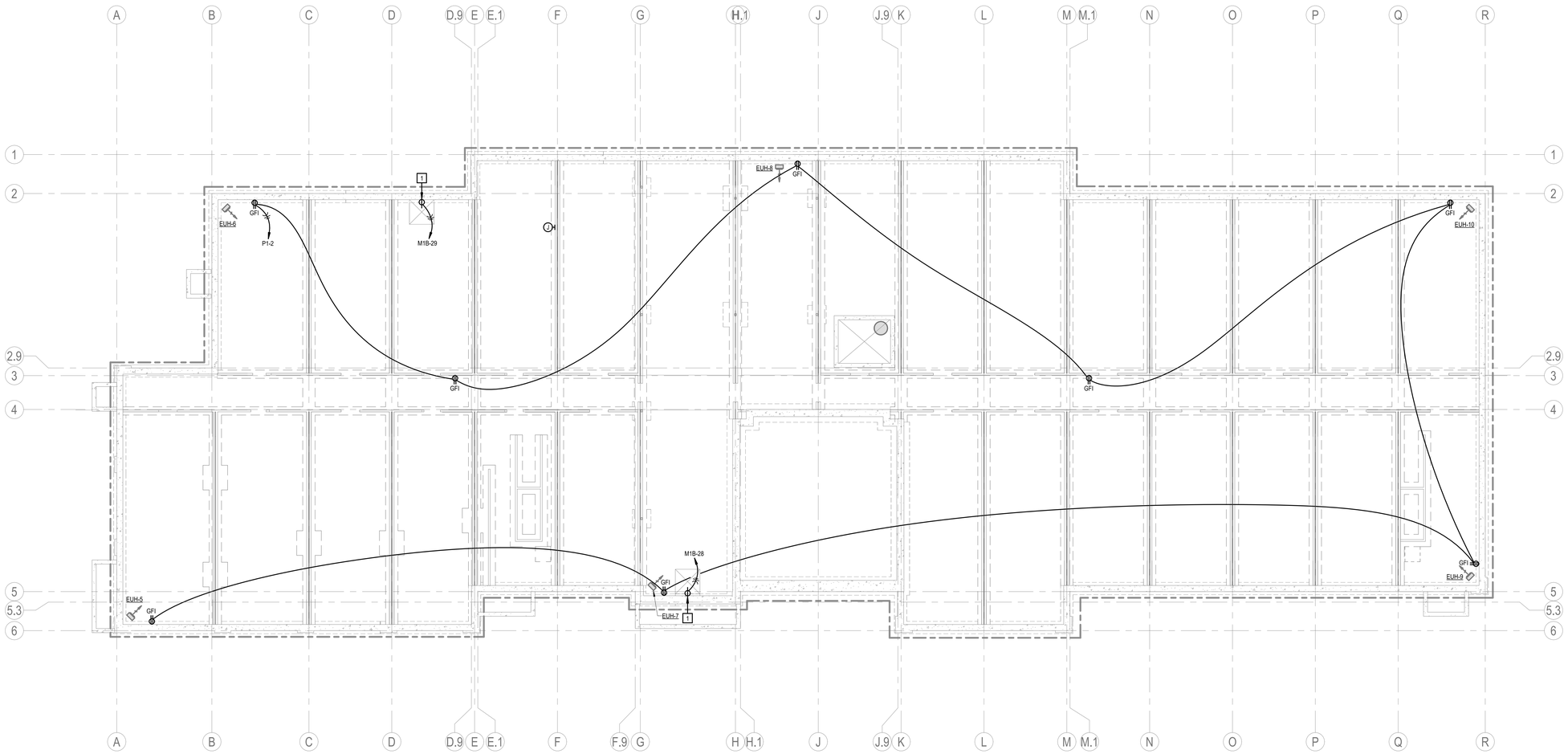
5/1/2026 4:28:36 PM

POWER GENERAL NOTES:

1. REFER TO SHEET E201 FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

1 RECEPTACLE FOR SUMP PUMP CONNECTION. VERIFY EXACT ELECTRICAL CONNECTION TYPE REQUIRED WITH SUMP PUMP PROVIDED.




2 LOWER LEVEL POWER PLAN
1/8" = 1'-0"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Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | | |
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## LOWER LEVEL POWER PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E200

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PLAN NOTES:

16 ELECTRICAL CONNECTION TO BUILDING SIGNAGE. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL ELEVATIONS AND PRODUCT SUBMITTALS.

17 REFER TO LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

18 ELECTRICAL CONNECTION FOR VENDING MACHINE. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECTURAL ELEVATIONS AND PRODUCT SUBMITTALS.

19 POWER FOR ACCESS CONTROL. REFER TO DOOR INFRASTRUCTURE DETAIL FOR ADDITIONAL INFORMATION. PROVIDE INFRASTRUCTURE AS REQUIRED.

1 20 PROVIDE (2) GANG HUBBELL SYSTEM ONE FLOORBOX (OR EQUAL) WITH (1) GANG FOR DUPLEX RECEPTACLE AND (1) GANG FOR AV. PROVIDE (1) 1-1/4" CONDUIT FOR AV, STUBBED TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT AV DEVICE WITH AV CONTRACTOR. COORDINATE EXACT FLOOR BOX LOCATION AND FINISH WITH ARCHITECT.

21 ELECTRIC CONNECTION TO ELECTRIC FIREPLACE. COORDINATE CONTROL TYPE WITH EQUIPMENT PROVIDED AND LOCATION OF FIREPLACE CONTROL WITH ARCHITECT.

22 30A/NF/3P/NEMA 1 DISCONNECT FOR POWER TO COMMERCIAL WASHER. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT WITH (4)#12, (1)# 12G., 3/4"C. ROUTE CONDUIT FROM WASHER TO DISCONNECT ALONG THE CEILING. INTENT IS TO AVOID CONFLICTS WITH DUCTWORK.

23 ROUTE PORTION OF CIRCUIT THROUGH RELAY PROVIDED WITH THE ASSOCIATED ROOM LIGHTING CONTROLS. REFER TO OCCUPANCY CONTROLLED RECEPTACLES DETAIL FOR ADDITIONAL INFORMATION.

24 ELECTRICAL CONNECTION FOR PAPER TOWEL DISPENSER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

25 ELECTRICAL CONNECTION FOR CHANGE MACHINE(S). COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

26 ELECTRICAL CONNECTION FOR LAUNDRY PRODUCT VENDING MACHINE. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

27 GENERATOR ANNUNCIATOR PANEL (GAP) TO BE RECESS MOUNTED. COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

2 28 ELECTRICAL CONNECTION FOR CASEWORK LIGHTING. COORDINATE CONNECTION TYPE WITH CASEWORK PROVIDED. COORDINATE EXACT LOCATION WITH ARCHITECT.

PLAN NOTES:

1 12" LONG x 2" WIDE x 1/4" THICK GROUNDING BUSBAR WITH PRE-DRILLED HOLES. EXTEND (1) # 3/0 COPPER CONDUCTOR, IN RACEWAY, BETWEEN EACH BUSBAR IN BUILDING AND TO BUILDING SERVICE GROUND.

2 NEMA L5-30R RECEPTACLES FOR DATA RACKS. CIRCUIT WITH (2)#10, #10G, IN 3/4" C. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE VENDOR.

3 ELECTRICAL CONNECTION TO SECURITY IDF CABINET BY OTHERS.

4 TELECOM MPOE. COORDINATE EXACT LOCATION WITH LOW VOLTAGE CONTRACTOR. REFER TO SITE PLAN FOR MORE INFORMATION.

5 4'x8', 3/4" A-C GRADE, FIRE-RETARDANT - TREATED PLYWOOD WITH THE (A) SIDE OF THE PLYWOOD INSTALLED FACING OUT.

6 30A/NF/3P/NEMA 1 DISCONNECT FOR POWER TO COMMERCIAL DRYER. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT WITH (4)#12, (1)# 12G., 3/4"C. ROUTE CONDUIT FROM DRYER TO DISCONNECT ALONG THE CEILING. INTENT IS TO AVOID CONFLICTS WITH DUCTWORK.

7 ELECTRICAL CONNECTION FOR DOOR HARDWARE.

8 ROUTE CONDUIT FROM CEILING DOWN TO HALF WALL. ROUTE CONDUIT ALONG HALF WALL TO EACH RECEPTACLE SERVING THE WASHERS. COORDINATE EXACT NEMA CONFIGURATION OF RECEPTACLES SERVING WASHING MACHINES WITH EQUIPMENT PROVIDED.

1 9 PROVIDE (3) GANG HUBBELL SYSTEM ONE POKE-THRU (OR EQUAL) WITH (2) GANGS FOR DUPLEX RECEPTACLES, AND (1) GANG FOR (2) DATA JACKS. PROVIDE (1) 1" CONDUIT FOR DATA, STUBBED TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT POKE-THRU LOCATION AND FINISH WITH ARCHITECT.

10 COORDINATE CONDUIT ROUTING FOR DEVICES WITHIN CASEWORK WITH A/E PRIOR TO ROUGH-IN.

11 RECEPTACLE FOR SUMP PUMP CONNECTION. VERIFY EXACT ELECTRICAL CONNECTION TYPE REQUIRED WITH SUMP PUMP PROVIDED.

12 CIRCUIT CONTINUED IN 2ND FLOOR ELEVATOR HOISTWAY.

13 COORDINATE LOCATION OF DEVICES SERVING TV WITH ARCHITECT PRIOR TO ROUGH-IN.

14 ELECTRICAL CONNECTION FOR ELECTRIC HAND DRYER. VERIFY EXACT ELECTRICAL CONNECTION TYPE REQUIRED WITH ELECTRIC HAND DRYER PROVIDED.

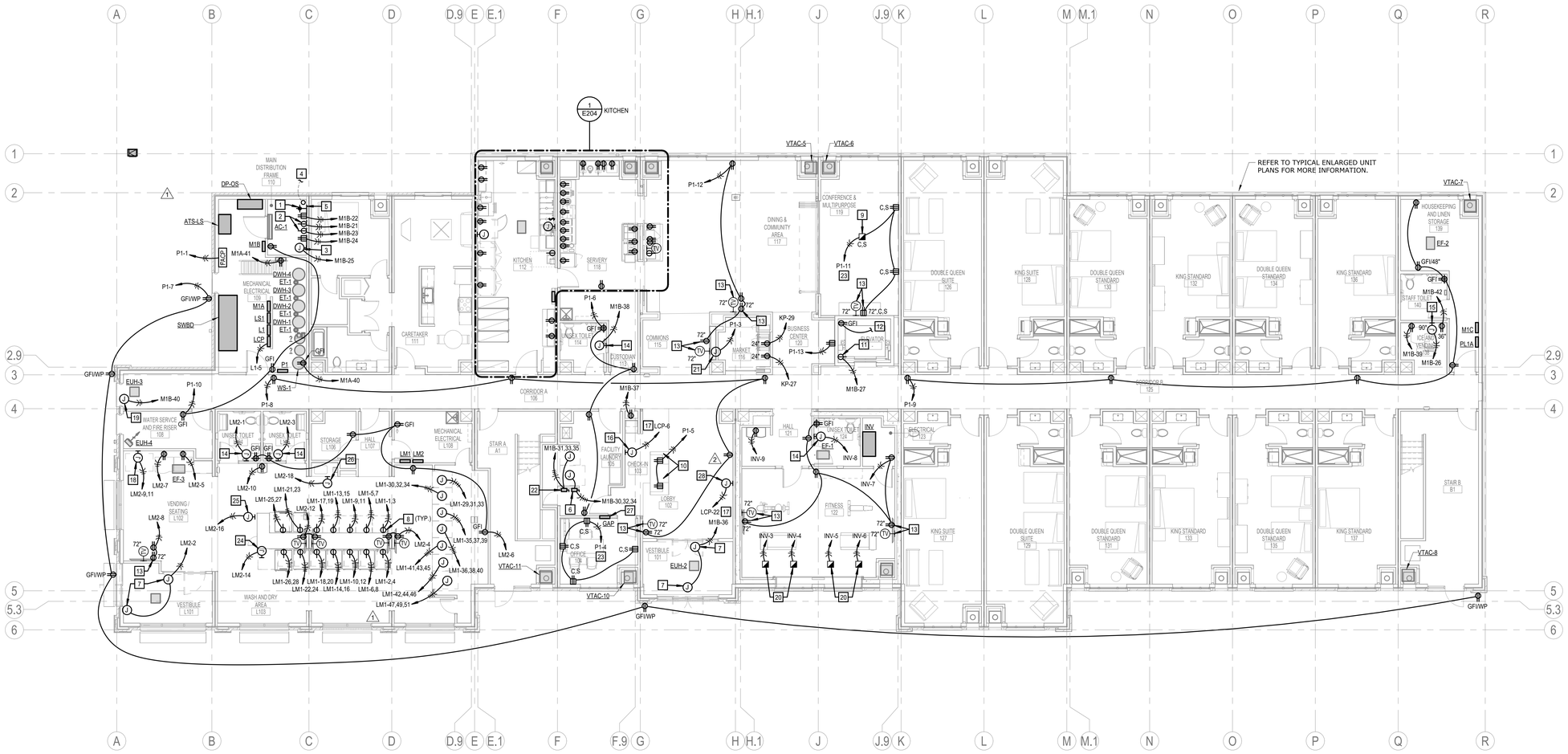
15 ELECTRICAL CONNECTION FOR ICE MAKER. COORDINATE EXACT ELECTRICAL REQUIREMENTS PER FOOD SERVICE DRAWINGS AND EQUIPMENT PROVIDED.

GENERAL NOTES:

1. PROVIDE (1) 3/4" CONDUIT FROM ALL THERMOSTATS TO ABOVE ACCESSIBLE CEILING OR TO ASSOCIATED HVAC EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
2. DATA/VOICE/TELEVISION BOX DEVICES ARE SHOWN FOR REFERENCE ONLY. REFER TO LOW VOLTAGE DRAWINGS FOR EXACT LOCATIONS AND DEVICES. PROVIDE RING AND STRING FOR LOW VOLTAGE CABLING BY OTHERS. OTHER CONDUITS IDENTIFIED ON PLAN SHALL BE 3/4" MINIMUM, UNLESS NOTED OTHERWISE. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.
3. COORDINATE FINISHES OF ALL SWITCHES, RECEPTACLES AND COVER PLATES WITH ARCHITECT. LABEL ALL RECEPTACLES, SWITCHES, AND MISCELLANEOUS ELECTRICAL DEVICES WITH PANEL AND CIRCUIT NUMBER (UTILIZE PRINTED LABELS). LABEL ALL JUNCTION BOXES WITH VOLTAGE, PANEL AND CIRCUIT NUMBER.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR ADDITIONAL CIRCUITING INFORMATION.
5. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS: (UNLESS SPECIFICALLY NOTED OTHERWISE)

   0-100' = #12 AWG.
   101-150' = #10 AWG.
   151-250' = #8 AWG.

   GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.
6. SEAL ALL PENETRATIONS AS REQUIRED TO MAINTAIN ALL RATINGS FOR ALL FIRE RESISTANCE/RATED CONSTRUCTION. REFER TO ARCHITECTURAL CODE PLANS FOR RATED WALL AND FLOOR LOCATIONS.
7. WHERE ANY DEVICE JUNCTION BOXES ARE RECESSED WITHIN OPPOSITE SIDES OF A FIRE RATED WALL AND ARE WITHIN 24" OF EACH OTHER MEASURED HORIZONTALLY. FURNISH AND INSTALL A MOLDABLE FIRE STOP PUTTY PACK AROUND EACH JUNCTION BOX TO MAINTAIN FIRE RATING OF WALL.
8. ALL CONDUIT SHALL BE CONCEALED IN CMU AND/ OR FRAMED WALLS UNLESS OTHERWISE NOTED.
9. NO OTHER DEVICES ON SAME CIRCUIT AS GFI RECEPTACLE SHALL BE FED DOWNSTREAM OF GFI LOAD TERMINALS.
10. PROVIDE TAMPER-RESISTANT RECEPTACLES FOR ALL 20A, 120V RECEPTACLES IN OFFICES, CORRIDORS, WAITING ROOMS, ETC. PER NEC REQUIREMENTS.
11. ELECTRICAL CONNECTIONS FOR MODULES TO BE ROUTED TO JUNCTION BOX. LOCATE JUNCTION BOX ABOVE DROP CEILING IN HALLWAY INFRONT OF THE MODULE IT SERVES. CONNECTIONS ARE MADE TO THE MODULES ONCE THEY HAVE BEEN SET.




1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"

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| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/26 | BP2.0R, ADD2.0 |
| 2 | 02/01/2026 | BP2.0R, ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## FIRST FLOOR POWER PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E201

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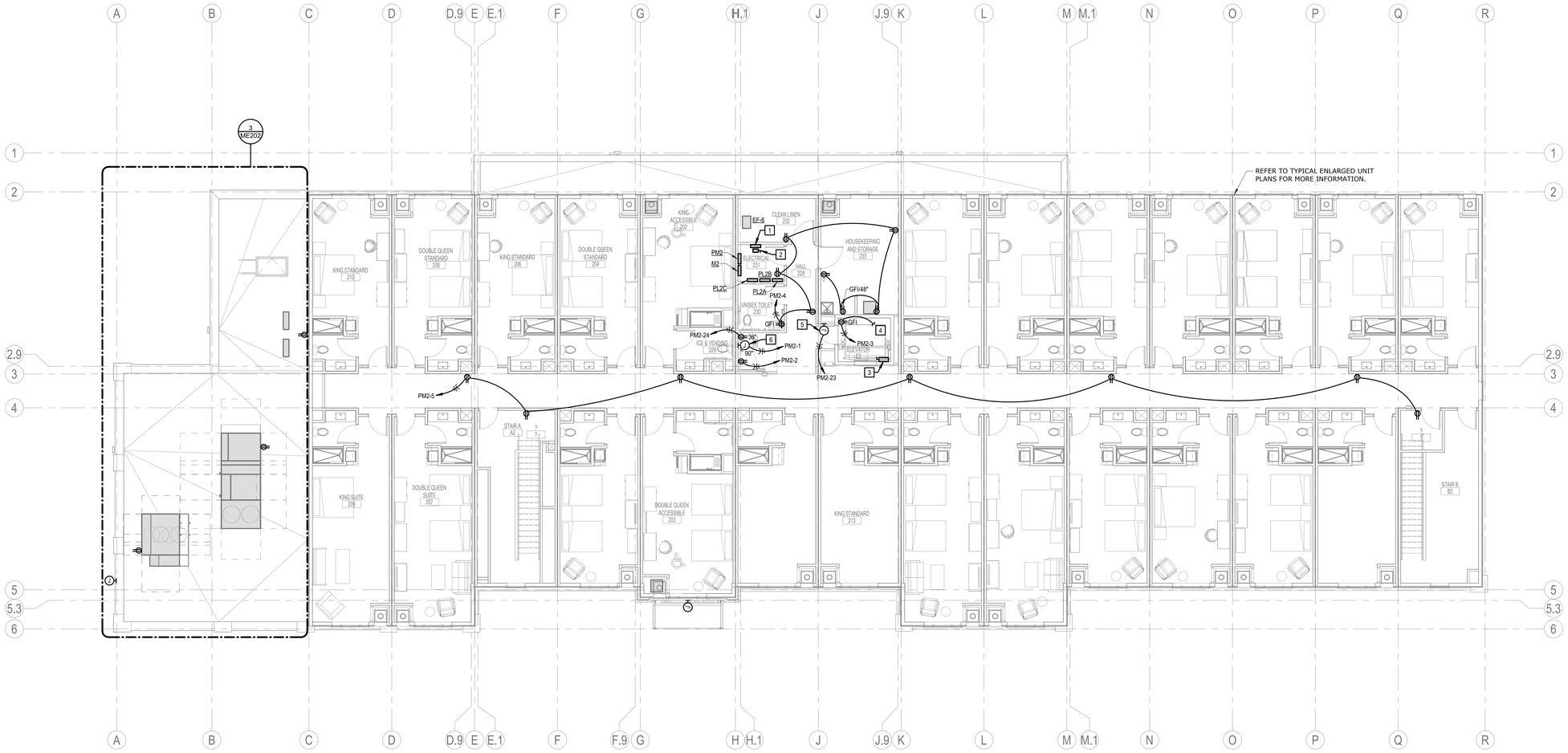
POWER GENERAL NOTES:

1. REFER TO SHEET E201 FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

POWER PLAN NOTES:

1. ELEVATOR POWER MODULE. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
2. 30A/15A FUSED LOCKABLE DISCONNECT FOR ELEVATOR CAB LIGHT/RECEPTACLE/ VENTILATION MEANS. CONNECT DISCONNECT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND APPLICABLE CODES. LABEL DISCONNECT FOR WHICH ELEVATOR CAB IT SERVES.
3. ELEVATOR AUXILIARY MOTOR DISCONNECT. COORDINATE LOCATION IN HOISTWAY WITH ELEVATOR VENDOR SHOP DRAWINGS. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
4. CIRCUIT CONTINUED IN 1ST FLOOR ELEVATOR HOISTWAY.
5. ELECTRICAL CONNECTION TO DOOR HOLD DEVICE.
6. ELECTRICAL CONNECTION FOR ICE MAKER. COORDINATE EXACT ELECTRICAL REQUIREMENTS PER FOOD SERVICE DRAWINGS AND EQUIPMENT PROVIDED.




1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"

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| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
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| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## SECOND FLOOR POWER PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E202

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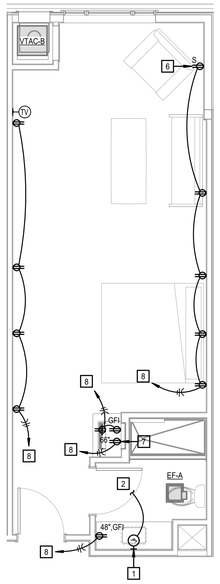
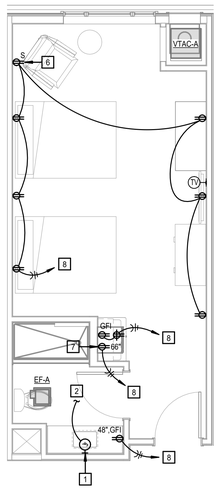
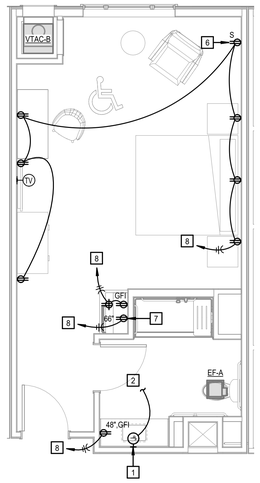


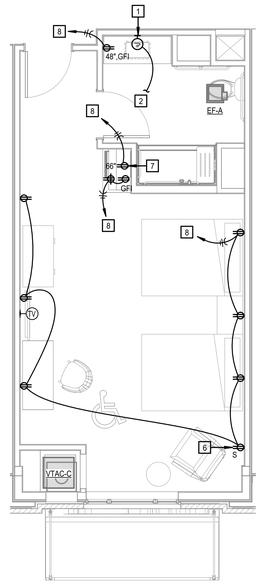

1 POWER UNIT PLAN - KING SUITE
1/4" = 1'-0"



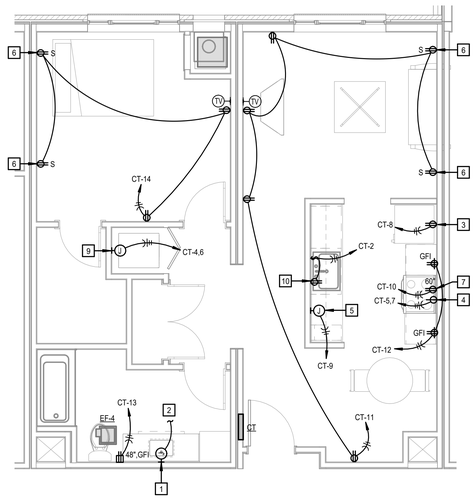

2 POWER UNIT PLAN - DOUBLE QUEEN STANDARD
1/4" = 1'-0"



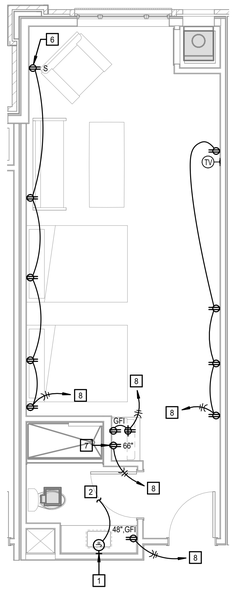

3 POWER UNIT PLAN - KING ACCESSIBLE
1/4" = 1'-0"



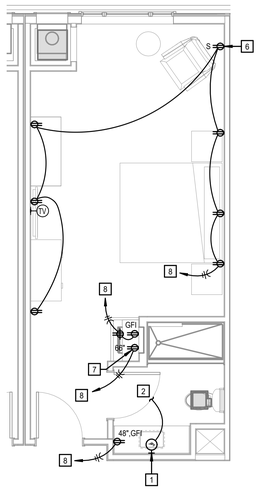

4 POWER UNIT PLAN - DOUBLE QUEEN DELUXE ACCESSIBLE
1/4" = 1'-0"




5 POWER UNIT PLAN - CARETAKER
1/4" = 1'-0"




6 POWER UNIT PLAN - DOUBLE QUEEN SUITE
1/4" = 1'-0"




7 POWER UNIT PLAN - KING STANDARD
1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E103 FOR TYPICAL GUESTROOM GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

1 ELECTRICAL CONNECTION FOR BACK-LIT MIRROR.

2 CONNECT TO LIGHTING CIRCUIT SERVING THE UNIT.

3 DEDICATED RECEPTACLE FOR REFRIGERATOR. REFER TO ARCHITECTURAL PLANS/CASEWORK ELEVATIONS FOR EXACT LOCATION.

4 ELECTRICAL CONNECTION FOR STOVE TOP. CIRCUIT WITH (2)#10, (1)#10G., IN 3/4"C. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

5 ELECTRICAL CONNECTION FOR DISHWASHER. REFER TO ARCHITECTURAL PLANS/CASEWORK ELEVATIONS FOR EXACT LOCATION. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

6 HALF SWITCHED, SPLIT WIRED DUPLEX RECEPTACLE. DESIGNATE WHICH OUTLET IS SWITCHED WITH LABEL ON COVERPLATE. REFER TO CORRESPONDING UNIT LIGHTING PLAN FOR SWITCH LOCATION. NIGHT STAND LAMP TO BE PLUGGED INTO SWITCHED SIDE OF RECEPTACLE.

7 DEDICATED RECEPTACLE FOR MICROWAVE. REFER TO ARCHITECTURAL PLANS/CASEWORK ELEVATIONS FOR EXACT LOCATION.

8 REFER TO PANELBOARD SCHEDULES FOR CIRCUIT DESIGNATION.

9 ELECTRICAL CONNECTION FOR WASHER/DRYER. CIRCUIT WITH (3)#10, (1)#10G., IN 3/4"C. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.

10 DEDICATED CIRCUIT FOR GARBAGE DISPOSAL. SPLIT WIRED DUPLEX RECEPTACLE WITH ONE OUTLET SWITCHED FOR DISPOSAL. DESIGNATE WHICH OUTLET IS SWITCHED WITH LABEL ON COVERPLATE. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED. REFER TO ARCHITECTURAL PLAN/CASEWORK ELEVATIONS FOR EXACT LOCATIONS.

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| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## UNITS POWER PLAN

| | |
|---|---|
| Project No.: | 22.1010 |
| Date: | 05/04/2026 |
| Drawn by: | SBI |
| Checked by: | CEA |

SHEET NUMBER
E203

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GENERAL NOTES:

1. REFER TO E201 FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

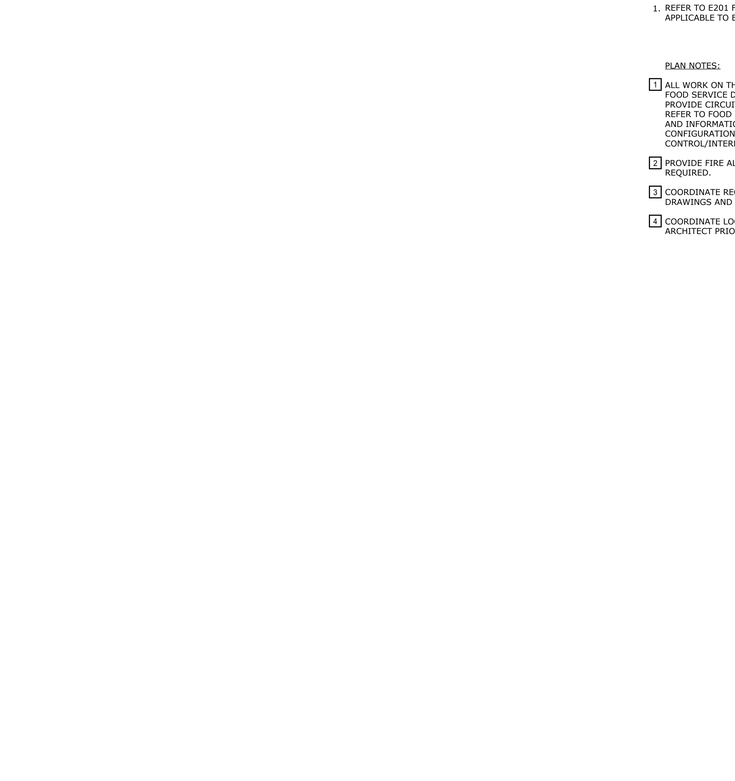
PLAN NOTES:

1 ALL WORK ON THIS SHEET SUPPLEMENTS THE WORK SHOWN ON FOOD SERVICE DRAWINGS. THE INTENT OF THIS SHEET IS TO PROVIDE CIRCUIT NUMBERS FOR EQUIPMENT CONNECTIONS. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL WORK AND INFORMATION SUCH AS EQUIPMENT LOCATIONS, NEMA CONFIGURATION, MOUNTING HEIGHTS, CONDUIT ROUTING, CONTROL/INTERLOCK WIRING, ETC.

2 PROVIDE FIRE ALARM DEVICES FOR ALL KITCHEN EQUIPMENT AS REQUIRED.

3 COORDINATE RECEPTACLE TYPE REQUIRED PER FOOD SERVICE DRAWINGS AND EQUIPMENT PROVIDED.

4 COORDINATE LOCATION OF DEVICES SERVING TV WITH ARCHITECT PRIOR TO ROUGH-IN.




1 ELECTRICAL PLAN - KITCHEN
1/4" = 1'-0"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## ENLARGED ELECTRICAL PLAN - KITCHEN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E204

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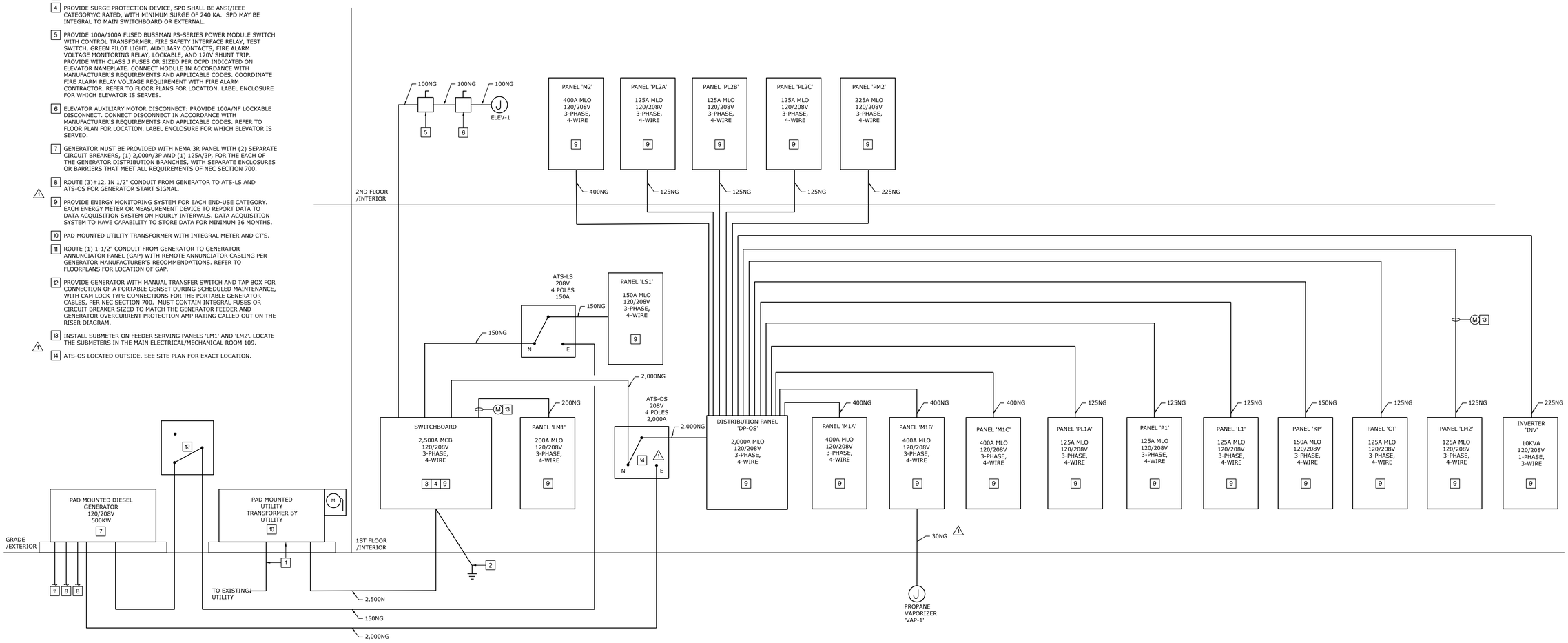
RISER DIAGRAM GENERAL NOTES:

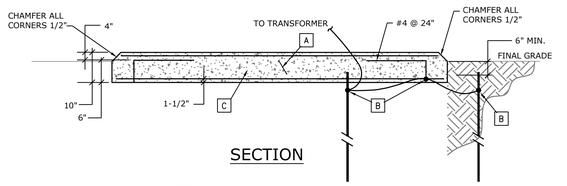
1. CONDUCTOR SIZING IS BASED ON ALUMINUM AA-8800, UNLESS NOTED OTHERWISE.
2. ELECTRICAL UTILITY COMPANY IS OTTERTAIL. FURTHER REFERENCED ON THIS SHEET AS 'UTILITY'.

PLAN NOTES:

1. PRIMARY FEEDER. PROVIDE PRIMARY ELBOW(S) PER UTILITY STANDARDS AS REQUIRED. PRIMARY FEEDER, CT'S, AND METER BY UTILITY, PER UTILITY REQUIREMENTS. REFER TO SITE PLAN FOR ADDITIONAL UTILITY INFORMATION. COORDINATE WITH UTILITY ON ALL REQUIREMENTS.
2. REFER TO TYPICAL SERVICE GROUNDING DIAGRAM FOR GROUNDING INFORMATION.
3. PROVIDE INTEGRAL DIGITAL METER WITH MAIN SWITCHBOARD.
4. PROVIDE SURGE PROTECTION DEVICE, SPD SHALL BE ANSI/IEEE CATEGORY/C RATED, WITH MINIMUM SURGE OF 240 KA. SPD MAY BE INTEGRAL TO MAIN SWITCHBOARD OR EXTERNAL.
5. PROVIDE 100A/100A FUSED BUSSMAN PS-SERIES POWER MODULE SWITCH WITH CONTROL TRANSFORMER, FIRE SAFETY INTERFACE RELAY, TEST SWITCH, GREEN PILOT LIGHT, AUXILIARY CONTACTS, FIRE ALARM VOLTAGE MONITORING RELAY, LOCKABLE, AND 120V SHUNT TRIP. PROVIDE WITH CLASS J FUSES OR SIZED PER OCPD INDICATED ON ELEVATOR NAMEPLATE. CONNECT MODULE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND APPLICABLE CODES. COORDINATE FIRE ALARM RELAY VOLTAGE REQUIREMENT WITH FIRE ALARM CONTRACTOR. REFER TO FLOOR PLANS FOR LOCATION. LABEL ENCLOSURE FOR WHICH ELEVATOR IS SERVES.
6. ELEVATOR AUXILIARY MOTOR DISCONNECT: PROVIDE 100A/NF LOCKABLE DISCONNECT. CONNECT DISCONNECT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND APPLICABLE CODES. REFER TO FLOOR PLAN FOR LOCATION. LABEL ENCLOSURE FOR WHICH ELEVATOR IS SERVED.
7. GENERATOR MUST BE PROVIDED WITH NEMA 3R PANEL WITH (2) SEPARATE CIRCUIT BREAKERS, (1) 2,000A/3P AND (1) 125A/3P, FOR THE EACH OF THE GENERATOR DISTRIBUTION BRANCHES, WITH SEPARATE ENCLOSURES OR BARRIERS THAT MEET ALL REQUIREMENTS OF NEC SECTION 700.
8. ROUTE (3)#12, IN 1/2" CONDUIT FROM GENERATOR TO ATS-LS AND ATS-OS FOR GENERATOR START SIGNAL.
9. PROVIDE ENERGY MONITORING SYSTEM FOR EACH END-USE CATEGORY. EACH ENERGY METER OR MEASUREMENT DEVICE TO REPORT DATA TO DATA ACQUISITION SYSTEM ON HOURLY INTERVALS. DATA ACQUISITION SYSTEM TO HAVE CAPABILITY TO STORE DATA FOR MINIMUM 36 MONTHS.
10. PAD MOUNTED UTILITY TRANSFORMER WITH INTEGRAL METER AND CT'S.
11. ROUTE (1) 1-1/2" CONDUIT FROM GENERATOR TO GENERATOR ANNUNCIATOR PANEL (GAP) WITH REMOTE ANNUNCIATOR CABLING PER GENERATOR MANUFACTURER'S RECOMMENDATIONS. REFER TO FLOORPLANS FOR LOCATION OF GAP.
12. PROVIDE GENERATOR WITH MANUAL TRANSFER SWITCH AND TAP BOX FOR CONNECTION OF A PORTABLE GENSET DURING SCHEDULED MAINTENANCE, WITH CAM LOCK TYPE CONNECTIONS FOR THE PORTABLE GENERATOR CABLES, PER NEC SECTION 700. MUST CONTAIN INTEGRAL FUSES OR CIRCUIT BREAKER SIZED TO MATCH THE GENERATOR FEEDER AND GENERATOR OVERCURRENT PROTECTION AMP RATING CALLED OUT ON THE RISER DIAGRAM.
13. INSTALL SUBMETER ON FEEDER SERVING PANELS 'LM1' AND 'LM2'. LOCATE THE SUBMETERS IN THE MAIN ELECTRICAL/MECHANICAL ROOM 109.
14. ATS-OS LOCATED OUTSIDE. SEE SITE PLAN FOR EXACT LOCATION.




## ELECTRICAL RISER DIAGRAM
NOT TO SCALE




PLAN NOTES:

A. ALL CONCRETE SHALL BE AIR ENTRAINED AND TEST 3000 PSI(MIN.) IN 28 DAYS.

B. EXOTHERMIC WELD GROUND CONDUCTORS TO GROUND ROD AND REINFORCING STEEL (TYP.). INSTALL GROUND RODS AND CONDUCTORS AS SHOWN ON THE PLANS.

C. CONCRETE SLAB TO SLOPE DOWN 1/4"/FT FROM EAST TO WEST.

## GENERATOR PAD DETAIL
NOT TO SCALE

### SUBSCRIPT KEY

| SUBSCRIPT | CONDUCTORS PER CONDUIT (ALL CONTAIN 3-PHASE CONDUCTORS) |
|---|---|
| G | 1 GROUNDING CONDUCTOR |
| N | 1 NEUTRAL CONDUCTOR |
| NG | 1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR |
| NGI | 1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR |
| NG-T | 1 NEUTRAL CONDUCTOR, 1 TRANSFORMER GROUNDING CONDUCTOR |
| NGI-T | 1 NEUTRAL CONDUCTOR, 1 TRANSFORMER GROUNDING CONDUCTOR, 1 ISOLATED TRANSFORMER GROUNDING CONDUCTOR |
| NNG-T | 2 NEUTRAL CONDUCTOR, 1 TRANSFORMER GROUNDING CONDUCTOR |

**EXAMPLE:**




### FEEDER SCHEDULE - AA-8000 ALUMINUM ALLOY CONDUCTORS

AA-8000 ALUMINUM ALLOY ALLOWED AS A SUBSTITUTE FOR COPPER ON ALL FEEDERS 100 AMPS AND ABOVE THREE PHASE FEEDERS ONLY (ALUMINUM NOT ALLOWED FOR ANY BRANCH CIRCUITS)

| CIRCUIT RATING | CONDUIT SIZE (INCHES), MULTIPLE CONDUITS = MULTIPLE CONDUCTOR SETS | | | | | | | CONDUCTOR SIZE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | G | N | NG | NGI | NG-T | NGI-T | NNG-T | PHASE/ NEUTRAL | GND/ IG | XFMR GND/IG |
| 100 | 1.5 | 1.5 | 1.5 | 2 | 1.5 | 2 | 2 | #1/0 | #6 | #4 |
| 110 | 1.5 | 2 | 2 | 2 | – | – | – | #1/0 | #4 | – |
| 125 | 1.5 | 2 | 2 | 2 | – | – | – | #2/0 | #4 | – |
| 150 | 2 | 2 | 2 | 2.5 | 2 | 2.5 | 2.5 | #3/0 | #4 | #4 |
| 175 | 2 | 2.5 | 2.5 | 3 | – | – | – | #4/0 | #4 | – |
| 200 | 2 | 2.5 | 2.5 | 3 | – | – | – | #250 | #4 | – |
| 225 | 2.5 | 3 | 3 | 3.5 | – | – | – | #300 | #2 | – |
| 250 | 2.5 | 3 | 3 | 3.5 | 3 | 3.5 | 3.5 | #350 | #2 | #1/0 |
| 300 | 3 | 3.5 | 3.5 | 3.5 | – | – | – | #500 | #2 | – |
| 350 | (2) 2 | (2) 2.5 | (2) 2.5 | (2) 3 | (2) 2.5 | (2) 3 | (2) 3 | #4/0 | #1 | #3/0 |
| 400 | (2) 2.5 | (2) 2.5 | (2) 2.5 | (2) 3 | – | – | – | #250 | #1 | – |
| 450 | (2) 2.5 | (2) 3 | (2) 3 | (2) 3 | – | – | – | #300 | #1/0 | – |
| 500 | (2) 2.5 | (2) 3 | (2) 3 | (2) 3.5 | (2) 3 | (2) 3.5 | (2) 3.5 | #350 | #1/0 | #3/0 |
| 600 | (2) 3 | (2) 3.5 | (2) 3.5 | (2) 3.5 | – | – | – | #500 | #2/0 | – |
| 700 | (3) 2.5 | (3) 3 | (3) 3 | (3) 3.5 | (3) 3 | (3) 3.5 | (3) 3.5 | #350 | #3/0 | #4/0 |
| 800 | (3) 3 | (3) 3 | (3) 3 | (3) 3.5 | – | – | – | #400 | #3/0 | – |
| 1000 | (3) 3.5 | (3) 3.5 | (3) 3.5 | (3) 4 | (3) 3.5 | (3) 4 | (3) 4 | #600 | #4/0 | #250 |
| 1200 | (4) 3 | (4) 3.5 | (4) 3.5 | (4) 4 | – | – | – | #500 | #250 | – |
| 1600 | (5) 3.5 | (5) 4 | (5) 4 | (5) 4 | (5) 4 | (5) 4 | (5) 4 | #600 | #350 | #250 |
| 2000 | (6) 3.5 | (6) 4 | (6) 4 | (6) 4 | – | – | – | #600 | #400 | – |
| 2500 | (8) 3.5 | (8) 4 | (8) 4 | (8) 5 | – | – | – | #600 | #600 | – |
| 3000 | (9) 3.5 | (9) 4 | (9) 4 | (9) 5 | – | – | – | #600 | #600 | – |
| 4000 | (11) 4 | (11) 5 | (11) 5 | (11) 5 | – | – | – | #750 | #750 | – |

### FEEDER SCHEDULE - COPPER CONDUCTORS

THREE PHASE FEEDERS ONLY

| CIRCUIT RATING | CONDUIT SIZE (INCHES), MULTIPLE CONDUITS = MULTIPLE CONDUCTOR SETS | | | | | | | CONDUCTOR SIZE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | G | N | NG | NGI | NG-T | NGI-T | NNG-T | PHASE/ NEUTRAL | GND/ IG | XFMR GND/IG |
| 15 | 0.5 | 0.5 | 0.5 | 0.5 | – | – | – | #12 | #12 | – |
| 20 | 0.5 | 0.5 | 0.5 | 0.5 | – | – | – | #12 | #12 | – |
| 30 | 0.75 | 0.75 | 0.75 | 0.75 | – | – | – | #10 | #10 | – |
| 40 | 0.75 | 0.75 | 0.75 | 1 | – | – | – | #8 | #10 | – |
| 50 | 0.75 | 1 | 1 | 1.25 | 1 | 1.25 | 1.25 | #6 | #10 | #8 |
| 60 | 1 | 1.25 | 1.25 | 1.5 | – | – | – | #4 | #10 | – |
| 70 | 1 | 1.25 | 1.25 | 1.5 | – | – | – | #4 | #8 | – |
| 80 | 1 | 1.25 | 1.25 | 2 | – | – | – | #3 | #8 | – |
| 90 | 1.25 | 1.25 | 1.25 | 2 | – | – | – | #2 | #8 | – |
| 100 | 1.25 | 1.5 | 1.5 | 2 | 1.5 | 2 | 2 | #1 | #8 | #6 |
| 110 | 1.25 | 1.5 | 1.5 | 2 | – | – | – | #1 | #6 | – |
| 125 | 1.25 | 1.5 | 1.5 | 2 | – | – | – | #1 | #6 | – |
| 150 | 1.5 | 1.5 | 1.5 | 2 | 1.5 | 2 | 2 | #1/0 | #6 | #6 |
| 175 | 1.5 | 2 | 2 | 2.5 | – | – | – | #2/0 | #6 | – |
| 200 | 2 | 2 | 2 | 2.5 | – | – | – | #3/0 | #6 | – |
| 225 | 2 | 2.5 | 2.5 | 3 | – | – | – | #4/0 | #4 | – |
| 250 | 2 | 2.5 | 2.5 | 3 | 2.5 | 3 | 3 | #250 | #4 | #2 |
| 300 | 2.5 | 3 | 3 | 3.5 | – | – | – | #350 | #4 | – |
| 350 | 3 | 3.5 | 3.5 | 4 | 3.5 | 4 | 4 | #500 | #3 | #1/0 |
| 400 | 3 | 3.5 | 3.5 | 4 | – | – | – | #500 | #3 | – |
| 450 | (2) 2 | (2) 2.5 | (2) 2.5 | (2) 3 | – | – | – | #4/0 | #2 | – |
| 500 | (2) 2 | (2) 2.5 | (2) 2.5 | (2) 3 | (2) 2.5 | (2) 3 | (2) 3 | #250 | #2 | #1/0 |
| 600 | (2) 2.5 | (2) 3 | (2) 3 | (2) 3.5 | – | – | – | #350 | #1 | – |
| 700 | (2) 3 | (2) 3.5 | (2) 3.5 | (2) 4 | (2) 3.5 | (2) 4 | (2) 4 | #500 | #1/0 | #2/0 |
| 800 | (2) 3 | (2) 3.5 | (2) 3.5 | (2) 4 | – | – | – | #500 | #1/0 | – |
| 1000 | (3) 3 | (3) 3 | (3) 3 | (3) 4 | (3) 3 | (3) 4 | (3) 4 | #400 | #2/0 | #3/0 |
| 1200 | (4) 2.5 | (4) 3 | (4) 3 | (4) 3.5 | – | – | – | #350 | #3/0 | – |
| 1600 | (5) 3 | (5) 3 | (5) 3 | (5) 4 | (5) 3 | (5) 4 | (5) 4 | #400 | #4/0 | #3/0 |
| 2000 | (6) 3 | (6) 3 | (6) 3 | (6) 4 | – | – | – | #400 | #250 | – |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New Town, ND 58763

Owner

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Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## ELECTRICAL - ONE-LINE DIAGRAMS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E301

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PROJECT NAME: 2516701 Parshall Hotel
ADDRESS / LOCATION \ NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:
Booby Charles Wednesday, April 29, 2026 11:01:41 AM
Booby Charles Friday, May 1, 2026 4:22:16 PM

## LIGHTING CONTROL REQUIREMENTS & DESCRIPTIONS - PER SPACE TYPE

| TYPE | LIGHTING CONTROL REQUIREMENTS FOR SPACE |
|---|---|
| 1 | CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF:<br><br>POWER PACKS/CONTROLLERS:<br>-LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED.<br><br>OCCUPANCY SENSOR(S):<br>-TYPE AND MINIMUM QUANTITY NOTED ON PLANS, MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM.<br>-SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES. |
| 2 | CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL ON/OFF CONTROLS:<br><br>POWER PACKS/CONTROLLERS:<br>-LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED.<br><br>OCCUPANCY SENSOR(S):<br>-TYPE, LOCATION(S), AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM.<br>-SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES.<br><br>ON/OFF ZONE SWITCHES:<br>-LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS.<br>-ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS.<br>-ZONE DESIGNATIONS ARE DENOTED FOR EACH SWITCH WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT SWITCHES WITHIN THE SAME ROOM.<br>-ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC.<br>-ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. |
| 3 | CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL OVERRIDE DIMMING CONTROLS:<br><br>POWER PACKS/CONTROLLERS:<br>-LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED.<br><br>OCCUPANCY SENSOR(S):<br>-TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM.<br>-SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES.<br><br>DIMMABLE ZONE SWITCHES:<br>-LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS.<br>-ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS.<br>-ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM.<br>-ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC.<br>-ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE.<br>-RAISE AND LOWER CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT SLIDER STYLE. |
| 4 | CONTROL METHOD: PHOTOCELL/TIME CLOCK ON - PHOTOCELL/TIME CLOCK OFF:<br><br>POWER PACKS/CONTROLLERS:<br>-LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. |
| 5 | CONTROL METHOD: TIME CLOCK ON/MANUAL ON - TIME CLOCK OFF - MANUAL DIMMING CONTROL:<br><br>POWER PACKS/CONTROLLERS:<br>-LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED.<br><br>ON/OFF AND DIMMABLE ZONE SWITCHES:<br>-LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. REFER TO FLOORPLANS FOR SWITCH TYPE USED IN EACH SPACE.<br>-ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS.<br>-ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM.<br>-ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC.<br>-ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE.<br>-RAISE AND LOWER CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT SLIDER STYLE<br>-AFTER BUSINESS HOURS, LIGHTS TURN OFF. SWITCH FOR EACH ZONE ALLOWS LIGHTS TO TURN ON FOR UP TO 2 HOURS, THEN AUTOMATICALLY TURN OFF. |
| R | ADDITIONAL EGRESS LIGHTING PROVISIONS NEEDED:<br><br>POWER PACKS/CONTROLLERS:<br>-SEPARATE DEVICES AND ENCLOSURES AS REQUIRED TO SEPARATELY CIRCUIT THE LIGHT FIXTURES IN EACH ZONE WHICH NOTED TO BE CONNECTED TO EGRESS CIRCUITS.<br>-MUST MEET UL924 REQUIREMENTS FOR REVERTING CONTROL OF ALL EGRESS LIGHTING TO FULL ON DURING A LOSS OF NORMAL POWER TO THE ROOM/BUILDING. |
| RC | ADDITIONAL CONTROLLED RECEPTACLES NEEDED:<br><br>POWER PACKS/CONTROLLERS (SPECIFICALLY RATED FOR 20 AMP PLUG LOADS):<br>-SEPARATE DEVICES AND ENCLOSURES AS REQUIRED TO DISCONNECT POWER TO EVERY OCCUPANCY CONTROLLED RECEPTACLE SPECIFIED WITHIN THE SPACE.<br>-REFER TO CORRESPONDING POWER PLANS FOR ALL CONTROLLED RECEPTACLE QUANTITIES, AND PARTICULARLY CIRCUITING AS MORE THAN ONE CIRCUIT MAY NEED TO BE CONTROLLED.<br>-PROVIDE EITHER SINGLE POWER PACK/CONTROLLERS PER CONTROLLED CIRCUIT, OR INDIVIDUAL RECEPTACLES THAT RESPOND DIRECTLY TO SIGNALS FROM THE LIGHTING CONTROLS. |

GENERAL NOTES:

1. WHERE LIGHTS ARE TIME CLOCK CONTROLLED, REFER TO LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR MUST INCLUDE SHOP DRAWINGS WITH LIGHTING CONTROLS SUBMITTAL SHOWING WIRING SCHEMATICS/DIAGRAMS OVERLAYED ON FLOOR PLANS FOR EACH ROOM.
3. ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.
4. PROVIDE A DIGITAL LIGHTING CONTROL SYSTEM FROM A MANUFACTURER LISTED IN SPECIFICATION SECTION 260923 - LIGHTING CONTROL DEVICES. WIRELESS SYSTEMS ARE NOT PERMITTED.
5. CONTRACTOR TO MODIFY OCCUPANCY SENSOR LOCATIONS, AND/OR INCREASE QUANTITIES, AS REQUIRED BASED ON COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.
6. CONTRACTOR MUST COORDINATE WITH LIGHT FIXTURE SCHEDULE, AND MOST IMPORTANTLY THE LIGHT FIXTURE SUBMITTAL, TO VERIFY DIMMING TYPE NEEDED FOR EACH RELAY/CONTROLLER.

## LIGHTING CONTROL DEVICE SCHEDULE

| SYMBOL | DESCRIPTION | DETECTION TYPE | SETTINGS (TYPICAL) | MANUFACTURER/MODEL | NOTES |
|---|---|---|---|---|---|
| $_{VS} | WALL MOUNTED SWITCH/VACANCY SENSOR<br>LINE VOLTAGE - SINGLE RELAY | DUAL TECHNOLOGY | ON: MANUAL<br>OFF: 15 MINUTE DELAY | WATTSTOPPER<br>LMDW-101-ENG1 | 1,2 |
| $_{OS} | WALL MOUNTED SWITCH/OCCUPANCY SENSOR<br>LINE VOLTAGE - SINGLE RELAY | DUAL TECHNOLOGY | ON: AUTOMATIC<br>OFF: 15 MINUTE DELAY | WATTSTOPPER<br>LMDW-101-ENG1 | 1,2 |
| $_{VD} | WALL MOUNTED SWITCH/VACANCY SENSOR<br>LOW VOLTAGE - SINGLE RELAY - WITH 0-10V DIMMING | DUAL TECHNOLOGY | ON: MANUAL<br>OFF: 15 MINUTE DELAY | WATTSTOPPER<br>LMDW-102-ENG2 | 1,2 |
| $_{LS\#} | ON/OFF SWITCH<br># INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION | - | - | WATTSTOPPER<br>LMSW-101-ENG1 | 1,2 |
| $_{LD\#} | WALL MOUNTED ON/OFF DIMMER SWITCH<br># INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION | - | - | WATTSTOPPER<br>LMDM-101-ENG1 | 1,2 |
| $_{F} | WALL MOUNTED COMBO LIGHT AND FAN CONTROLS<br>DIMMING SWITCH - 4 SPEED FAN CONTROL | - | - | MINKA-AIRE<br>WC116L | 2 |
| $_{3K} | WALL MOUNTED SWITCH<br>LINE VOLTAGE - 3-WAY - KEYED | - | - | WATTSTOPPER | 1 |
| $_{TS} | 7" WALL MOUNTED LIGHTING SYSTEM TOUCHSCREEN | - | - | PER SUBMITTAL | 1 |
| H | MOTION SENSOR | ULTRASONIC | CEILING | WATTSTOPPER<br>UT-355-3<br>HALLWAY APPLICATION | 1,3,4 |
| | CEILING MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR | DUAL TECHNOLOGY | - | WATTSTOPPER<br>LMDC-100 | 1,3,4 |
| PC | LIGHTING SYSTEM EXTERIOR PHOTOCELL | CLOSED LOOP | - | PER SUBMITTAL | 1 |

NOTES:

1. THE MANUFACTURERS AND MODELS LISTED ARE THE BASIS OF DESIGN, ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. REFER TO DRAWINGS FOR QUANTITIES.
2. ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.
3. OCCUPANCY SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.
4. MODIFY LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED SO THAT NO OCCUPANCY SENSOR IS WITHIN 4'-0" OF AN HVAC SUPPLY DIFFUSER.

## LIGHTING CONTROL PANEL - "LCP"

| RELAY # | RELAY AREA DESCRIPTION | CIRCUIT | DIMMING | SCHEDULED ON | SCHEDULED OFF | NOTES |
|---|---|---|---|---|---|---|
| 1 | PARKING LOT POLE LIGHTS | L1-1 | NO | PHOTOCELL | PHOTOCELL | |
| 2 | BUILDING SIGNAGE | L1-2 | NO | PHOTOCELL | PHOTOCELL | |
| 3 | BUILDING SIGNAGE | L1-3 | NO | PHOTOCELL | PHOTOCELL | |
| 4 | BUILDING SIGNAGE | L1-4 | NO | PHOTOCELL | PHOTOCELL | |
| 5 | BUILDING SIGNAGE - RECEPTION DESK | L1-6 | NO | NOTE 1,2 | NOTE 1,2 | |
| 6 | BUILDING MOUNTED LIGHTS | L1-8 | NO | PHOTOCELL | PHOTOCELL | |
| 7 | 1ST FLR HALL - ARCH LIGHTING | L1-10 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| 8 | 1ST FLR HALL - UNIT ENTRY DOWNLIGHTS | L1-11 | YES | NOTE 1,2 | NOTE 1,2 | |
| 9 | TRACK LIGHTING - MARKET | L1-10 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| 10 | TRACK LIGHTING - SERVERY | L1-12 | YES | NOTE 1,2 | NOTE 1,2 | |
| 11 | 2ND FLR HALL - ARCH LIGHTING | L1-15 | YES | NOTE 1,2 | NOTE 1,2 | |
| 12 | 2ND FLR HALL - UNIT ENTRY DOWNLIGHTS | L1-16 | YES | NOTE 1,2 | NOTE 1,2 | |
| 13 | LAUNDROMAT - VENDING DOWNLIGHTS | L1-17 (PART) | YES | NOTE 1,2 | NOTE 1,2 | NOTE 4 |
| 14 | LAUNDROMAT - WASH & DRY DOWNLIGHTS | L1-17 (PART) | YES | NOTE 1,2 | NOTE 1,2 | NOTE 4 |
| 15 | LAUNDROMAT - VESTIBULE | L1-17 (PART) | YES | NOTE 1,2 | NOTE 1,2 | NOTE 4 |
| 16 | MAIN VESTIBULE | L1-18 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| 17 | COVE LIGHTING | L1-18 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| 18 | CHECK-IN DESK | L1-18 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| 19 | COMMONS & BUSINESS CENTER-ARCH LTG | L1-20 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| 20 | COMMONS & BUSINESS CENTER-DWNLTS | L1-20 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| 21 | DINING AND COMMUNITY - ARCH LTG | L1-20 (PART) | YES | NOTE 1,2 | NOTE 1,2 | 3 |
| 22 | LOBBY CASEWORK LIGHITING | L1-19 | YES | NOTE 1,2 | NOTE 1,2 | |
| 23 | | | | | | |
| 24 | | | | | | |
| E1 | BUILDING MOUNTED EM WALL PACKS | LS1-2 | NO | PHOTOCELL | PHOTOCELL | |
| E2 | 1ST FLR HALL - DOWNLIGHTS | LS1-4 | YES | NOTE 1,2 | NOTE 1,2 | |
| E3 | 2ND FLR HALL - DOWNLIGHTS | LS1-9 | YES | NOTE 1,2 | NOTE 1,2 | |
| E4 | LAUNDROMAT - LINEAR LIGHTING | LS1-10 (PART) | YES | NOTE 1,2 | NOTE 1,2 | NOTE 4 |
| E5 | LAUNDROMAT - VESTIBULE | LS1-10 (PART) | YES | NOTE 1,2 | NOTE 1,2 | NOTE 4 |
| E6 | MAIN VESTIBULE | LS1-11 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| E7 | LOBBY ARCH LIGHTING | LS1-11 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| E8 | DINING AND COMMUNITY | LS1-11 (PART) | YES | NOTE 1,2 | NOTE 1,2 | |
| E9 | | | | | | |
| E10 | | | | | | |
| E11 | | | | | | |
| E12 | | | | | | |

NOTES:

CABINET REQUIREMENTS:

- BASIS OF DESIGN IS THE WATTSTOPPER LMCP SERIES. ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL.
- ALL RELAYS TO BE RATED FOR 20A (MINIMUM) - NORMALLY CLOSED.
- PHOTOCELL INPUT FOR CONTROL OF EXTERIOR LIGHTING. ELECTRICAL CONTRACTOR TO PROVIDE CABLING REQUIRED BETWEEN THE EXTERIOR PHOTOCELL AND RELAY CABINETS. MOUNT PHOTOCELL ON ROOF AND AIM NORTH.
- SEVEN DAY TIME CLOCK INCLUDING SKIP-A-DAY CAPABILITY.
- PROVIDE ETHERNET INTERFACE FOR REMOTE PROGRAMMING, BAS INTERFACE, AND OWNER LOCAL AREA NETWORK FOR REMOTE SCHEDULE PROGRAMMING.
- CONNECT ALL LIGHTING CONTROL PANELS PER MANUFACTURER DIRECTIONS SUCH THAT THEY FUNCTION AS ONE SYSTEM.
- PROVIDE BARRIERS WITHIN RELAY CABINET AS REQUIRED TO SEPARATE LIFE SAFETY AND NON-LIFE SAFETY CIRCUITS.
- PROVIDE LIGHTING CONTROL SYSTEM MASTER TOUCHPAD. REFER TO SHEET E101 FOR EXACT LOCATION.

NOTES

1. COORDINATE SCHEDULED ON/OFF TIME OF DAY WITH OWNER PRIOR TO SUBSTANTIAL COMPLETION.
2. SCHEDULE TO BE COORDINATED WITH OWNER AND MEET IECC 2021.
3. AFTER BUSINESS HOURS, LIGHTS TURN OFF. MANUAL OVERRIDE SWITCH ALLOWS LIGHTS TO TURN ON FOR UP TO 2 HOURS, THEN AUTOMATICALLY TURN OFF. OVERRIDE SWITCH SHOULD NOT FUNCTION DURING NORMAL OPERATING HOURS.
4. INTERFACE WITH LOCAL LIGHTING CONTROL SYSTEM TOUCHPAD LOCATED IN SPACE. REFER TO SHEET E101 FOR EXACT LOCATION. THIS TOUCHPAD TO ONLY CONTROL SCHEDULED LIGHT FIXTURES IN LAUNDROMAT SPACE.

## LIGHT FIXTURE SCHEDULE

| TYPE | DESCRIPTION | MOUNTING | SOURCE | VOLTS | MANUFACTURER | V-A |
|---|---|---|---|---|---|---|
| A1 | 4'-0" LONG STRIP LIGHT FIXTURE. WHITE HOUSING. PROVIDE WITH SYMMETRIC REFLECTOR. UL LISTED FOR WET LOCATION, NON-DIMMING DRIVER. PROVIDE WITH ALL REQUIRED HARDWARE FOR EACH MOUNTING OPTION. | SURFACE WALL PENDANT | LED<br>5,000 LUMENS<br>3000K<br>80 CRI | MVOLT | LITHONIA 2L1D,<br>WILLIAMS 75R SERIES,<br>COLUMBIA SERIES CSL,<br>OR APPOVED EQUAL | 40 |
| B1 | 22" DIAMETER, CIRCULAR ARCHITECTURAL FIXTURE. SHADE COLOR MATTE BLACK. FRAME FINISH DARK STAINED WALNUT. LARGE SIZE. DIMMING. | SURFACE | LED<br>2,000 LUMENS<br>3500K<br>90 CRI | MVOLT | CASIA 14 PART #08-110-22-B-D-35 | 30 |
| C1 | <1" TALL FIXTURE, FROSTED ROUND LENS, HARDWIRED. MOUNT END-TO-END FOR ENTIRE LENGTH OF COVE. COORDINATE EXACT LENGTHS WITH ARCHITECTURAL DRAWINGS. PROVIDE DAISY CHAIN CONNECTORS AS NEEDED. PROVIDE WITH CH-006 MOUNTING CHANNEL. COORDINATE FINISH WITH ARCHITECT. PROVIDE WITH POWER SUPPLY COMPATIBLE WITH 120V INPUT VOLTAGE AND 0-10V DIMMING. | SURFACE | LED<br>176 LUMENS/FT<br>3000K<br>80 CRI | 120 | KELVIX PL3K-24V<br>ACOLYTE<br>OR APPROVED EQUAL | 2/FT |
| D1A | 4" ROUND DOWNLIGHT, OPEN REFLECTOR, MEDIUM 45 DEGREE DISTRIBUTION. CLEAR SEMI-SPECULAR TRIP TYPE. COORDINATE FLANGE TYPE AND FINISH WITH ARCHITECT. IC RATED. 0-10V DIMMING. | RECESSED | LED<br>1,000 LUMENS<br>3000K<br>80 CRI | 120 | HE WILLIAMS 4DR,<br>OR APPROVED EQUAL | 15 |
| D1B | SAME AS D1A, BUT PROVIDE WITH WIDE 65 DEGREE DISTRIBUTION AND DIFFERENT LUMEN PACKAGE. | RECESSED | LED<br>1,500 LUMENS<br>3000K<br>80 CRI | 120 | SAME AS D1A. | 20 |
| D2 | 2" ROUND DOWNLIGHT, OPEN REFLECTOR, MEDIUM 45 DEGREE DISTRIBUTION. CLEAR SEMI-SPECULAR TRIP TYPE. COORDINATE FLANGE TYPE AND FINISH WITH ARCHITECT. IC RATED. 0-10V DIMMING. | RECESSED | LED<br>500 LUMENS<br>3000K<br>80 CRI | 120 | HE WILLIAMS 2DR,<br>OR APPROVED EQUAL | 10 |
| D3 | 7" ROUND DOWNLIGHT, LOW PROFILE, WHITE FINISH. 0-10V DIMMING. SELECTABLE COLOR TEMPERATURE, SET AT 3000K. | SURFACE | LED<br>1,200 LUMENS<br>3000K<br>90 CRI | MVOLT | JUNO SLIMFORM,<br>OR APPROVED EQUAL | 15 |
| D4 | 4" ROUND PIN DOWNLIGHT, 40 DEGREE DISTRIBUTION. COORDINATE FINISH WITH ARCHITECT. 0-10V DIMMING. | RECESSED | LED<br>1,300 LUMENS<br>3000K<br>80 CRI | 120 | LUMENCORE RECESSED LCRS,<br>OR APPROVED EQUAL | 16 |
| E1 | SINGLE HEAD, DIE CAST ALUMINUM POLE LIGHT FIXTURE, WITH MEDIUM TYPE 3 DISTRIBUTION. 20'-0" SQUARE STRAIGHT POLE WITH BASE COVER. PROVIDE WITH INTEGRAL MOTION SENSOR THAT DIMS LIGHT TO 50% OUTPUT AFTER NO MOTION HAS BEEN DETECTED, AND INCREASES TO FULL OUTPUT UPON MOTION DETECTION. PROVIDE WITH HOUSE SHIELD OPTION. COORDINATE FINISH WITH ARCHITECT. | POLE<br>20'-0" | LED<br>20,500 LUMENS<br>4000K<br>80 CRI | 120 | LITHONIA D-SERIES DSX1,<br>OR APPROVED EQUAL | 180 |
| E2 | SAME AS E1, BUT PROVIDE WITH MEDIUM TYPE 4 DISTRIBUTION. | POLE<br>20'-0" | LED<br>20,800 LUMENS<br>4000K<br>80 CRI | 120 | SAME AS E1. | 180 |
| F1 | COMBINATION 3-BLADE CEILING FAN AND LIGHT. LIGHT IS DIMMABLE. FROSTED WHITE LENS, WHITE FINISH. | SURFACE | LED<br>830 LUMENS<br>3000K<br>80 CRI | 120 | MINKA-AIRE AIRETOR III - LED 54"<br>CEILING FAN F670L-WHF | 100 |
| GRA | 6" ROUND, LOW PROFILE, DOME FIXTURE. WET LOCATION LISTED, AND IC RATED. COORDINATE FINISH WITH ARCHITECT. | SURFACE | LED<br>1,070 LUMENS<br>3000K<br>90 CRI | 120 | NORA LIGHTING NLOPAC2-R6509T2430W,<br>OR APPROVED EQUAL | 20 |
| GRB | 16" ROUND ARCHITECTURAL FIXTURE. PROVIDE WITH (3) COMPATIBLE LIGHT BULBS WITH FIXTURE. BLACK WITH BLACK FAUX RATTAN. | SURFACE | LED<br>4,800 LUMENS<br>2700K<br>90 CRI | 120 | CANARM BELLAMY FLUSHMOUNT | 45 |
| H1 | 2X2 TROFFER, CURVED SMOOTH DIFFUSER. 0-10V DIMMING. | RECESSED | LED<br>4,000 LUMENS<br>3000K<br>80 CRI | MVOLT | LITHONIA BLT,<br>OR APPROVED EQUAL | 35 |
| K1 | 2X2 FLAT PANEL FIXTURE. SATIN WHITE LENS. | RECESSED | LED<br>4,000 LUMENS<br>3000K<br>80 CRI | MVOLT | LITHONIA CPX,<br>OR APPROVED EQUAL | 40 |
| L1 | 4" WIDE, 4'-0" LONG DIRECT LINEAR FIXTURE WITH BATWING DISTRIBUTION AND FLUSH LENS. BLACK FINISH. 0-10V DIMMING. PROVIDE WITH CABLE AND HARDWARE FOR PENDANT MOUNTING INSTALLATION. PENDANT MOUNT AT 8'-0" AFF. | PENDANT | LED<br>1,200 LUMENS/FT<br>3000K<br>80 CRI | MVOLT | AXIS BEAM 4,<br>LUMENWERX,<br>PINNACLE,<br>OR APPROVED EQUAL | 14/FT |
| P1 | ARCHITECTURAL FIXTURE, ROUND 30" DIAMETER. NATURAL ROPE LAMPSHADE. COORDINATE FINISH WITH ARCHITECT. DIMMING. PROVIDE WITH (4) COMPATIBLE LIGHT BULBS WITH FIXTURE. | SURFACE | LED<br>3000K<br>80 CRI | 120 | JUSTICE DESIGN ECO-8293-MBLK,<br>OR APPROVED EQUAL | 36 |
| P2 | ARCHITECTURAL FIXTURE, ROUND CONE, 18" DIAMETER. NATURAL ROPE LAMPSHADE. COORDINATE FINISH WITH ARCHITECT. DIMMING. PROVIDE WITH (3) COMPATIBLE LIGHT BULBS WITH FIXTURE. PROVIDE WITH 12" STEM. | PENDANT | LED<br>3000K<br>80 CRI | 120 | JUSTICE DESIGN ECO-8291-MBLK,<br>OR APPROVED EQUAL | 27 |
| P3 | ARCHITECTURAL FIXTURE, ROUND CONE, 24" DIAMETER. NATURAL ROPE LAMPSHADE. COORDINATE FINISH WITH ARCHITECT. DIMMING. PROVIDE WITH (5) COMPATIBLE LIGHT BULBS WITH FIXTURE. PROVIDE WITH 12" STEM AND 6" STEM. COORDINATE PENDANT LENGTHS WITH ARCHITECT. | PENDANT | LED<br>3000K<br>80 CRI | 120 | JUSTICE DESIGN ECO-8292-MBLK,<br>OR APPROVED EQUAL | 45 |
| S1 | CYLINDRICAL WALL SCONCE. UP AND DOWN LIGHT DISTRIBUTION. NARROW 20 DEGREE DISTRIBUTION. WET LOCATION AND OUTDOOR LISTED. COORDINATE FINISH WITH ARCHITECT. | WALL | LED<br>1,000 LUMENS<br>4000K<br>80 CRI | MVOLT | BEGA B66516,<br>OR APPROVED EQUAL | 25 |
| T1 | 2.5" DIAMETER LED TRACK HEAD LIGHT FIXTURE. ADJUSTABLE LIGHT DISTRIBUTION AND ROTATABLE 360 DEGREES. PROVIDE (4) FIXTURE HEADS FOR EACH 4'-0" RUN OF TRACK. PROVIDE ALL HARDWARE REQUIRED FOR SUSPENDED MOUNT INSTALLATION. PROVIDE WITH 1A CURRENT LIMITER FOR EACH TRACK. DIMMING. COORDINATE FINISHES WITH ARCHITECT. | SUSPENDED | LED<br>2,275 LUMENS<br>3000K<br>90 CRI | 120 | TIMES SQUARE LIGHTING TL030,<br>OR APPROVED EQUAL | 30/HEAD |
| T2 | SAME AS T1, BUT PROVIDE 8'-0" RUN OF TRACK, (8) FIXTURE HEADS, AND 2A CURRENT LIMITER. | SUSPENDED | LED<br>2,275 LUMENS<br>3000K<br>90 CRI | 120 | SAME AS T1. | 30/HEAD |
| T3 | SAME AS T1, BUT PROVIDE 4'-0" RUN OF TRACK, (6) FIXTURE HEADS, AND 1.5A CURRENT LIMITER. | SUSPENDED | LED<br>2,275 LUMENS<br>3000K<br>90 CRI | 120 | SAME AS T1. | 30/HEAD |
| UC | FLEXIBLE TAPE LIGHT, FIELD CUTTABLE, DIMMABLE. PROVIDE WITH ALUMINUM CHANNEL AND FLUSH FROSTED LENS. | SURFACE | LED<br>380 LUMENS/FT<br>3000K<br>80 CRI | UNV | Q-TRAN SD-SW24/4.0 SERIES,<br>OR APPROVED EQUAL | 4/FT |
| X1 | LED EXIT SIGN, SINGLE OR DOUBLE FACE AS REQUIRED AND/OR SHOWN ON DRAWINGS. UNIVERSAL MOUNT. EDGE-LIT, RED LETTERING ON CLEAR FACE. SEALED NI-CAD BATTERY, MINIMUM OF 90 MINUTES CAPACITY. DRAWINGS INDICATE ARROWS. | UNIVERSAL | LED | MVOLT | LITHONIA EDG-EDGR,<br>OR APPROVED EQUAL | 3 |
| X2 | RECESSED DIE CAST ALUMINUM LED EXIT SIGN FOR GUESTROOM CORRIDORS. BATTERY BACKUP. COORDINATE FINISHES WITH ARCHITECT. PROVIDE ARROWS AS INDICATED ON PLANS. | RECESSED | LED | MVOLT | LITHONIA LRE,<br>OR APPROVED EQUAL | 3 |
| X3 | LED EXIT SIGN, SINGLE OR DOUBLE FACE AS REQUIRED AND/OR SHOWN ON DRAWINGS. UNIVERSAL MOUNT. THERMOPLASTIC, RED LETTERING ON WHITE FACE. SEALED NI-CAD BATTERY, MINIMUM OF 90 MINUTES CAPACITY. DRAWINGS INDICATE ARROWS. | UNIVERSAL | LED | MVOLT | LITHONIA LQM,<br>OR APPROVED EQUAL | 3 |
| W1 | EXTERIOR WALL PACK FIXTURE, VISUAL COMFORT OPTIC. COORDINATE FINISH WITH ARCHITECT. | SURFACE WALL | LED<br>1,500 LUMENS<br>4000K<br>80 CRI | UNV | LITHONIA WDGE2,<br>OR APPROVED EQUAL | 15 |


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Consultants

Mandan, Hidatsa and Arikan Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

# ELECTRICAL - SCHEDULES AND DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E302

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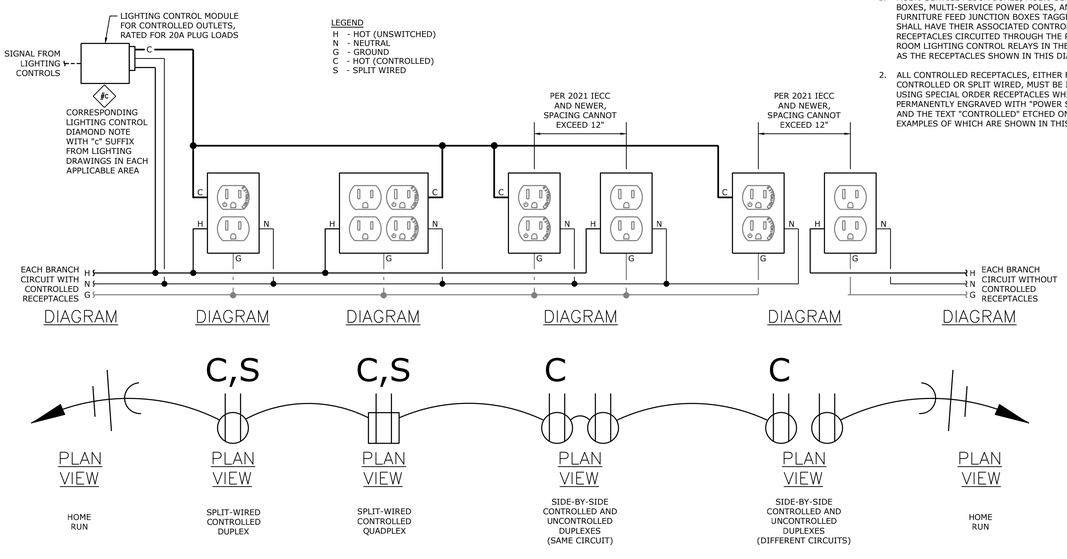
2516701 Parshall Hotel
Boulyc ◆ Booty Charles
Wednesday, April 29, 2026 11:02:12 AM
Friday, May 1, 2026 4:22:24 PM

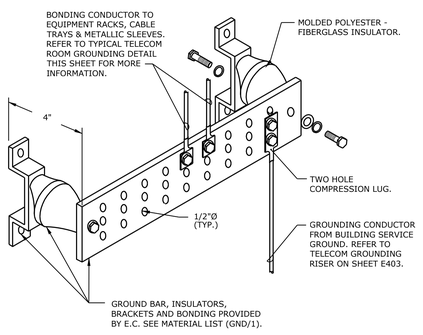
PROJECT NAME:
ACTIVITY FILE LOCATION & NAME:
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:




NOTES:

1. MULTI-SERVICE FLOOR BOXES, MULTI-SERVICE WALL BOXES, MULTI-SERVICE POWER POLES, AND FURNITURE FEED JUNCTION BOXES TAGGED WITH "C" SHALL HAVE THEIR ASSOCIATED CONTROLLED RECEPTACLES CIRCUITED THROUGH THE PROVIDED ROOM LIGHTING CONTROL RELAYS IN THE SAME WAY AS THE RECEPTACLES SHOWN IN THIS DIAGRAM.
2. ALL CONTROLLED RECEPTACLES, EITHER FULLY CONTROLLED OR SPLIT WIRED, MUST BE INSTALLED USING SPECIAL ORDER RECEPTACLES WHICH MUST BE PERMANENTLY ENGRAVED WITH "POWER SYMBOLS" AND THE TEXT "CONTROLLED" ETCHED ON THEM. EXAMPLES OF WHICH ARE SHOWN IN THIS DETAIL.

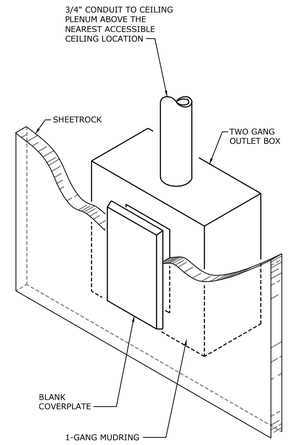
## OCCUPANCY CONTROLLED OUTLETS DETAIL
NOT TO SCALE




NOTES:

1. SEE MATERIAL LIST (GND/1) FOR WIDTH REQUIREMENTS.

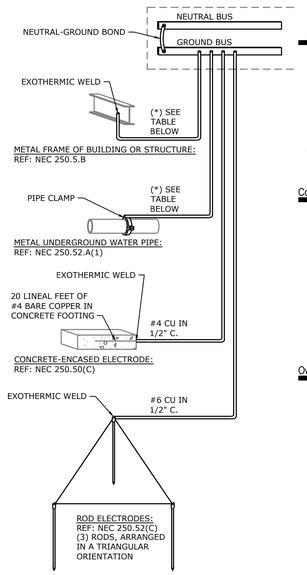
## TYPICAL GROUND BAR DETAIL
NOT TO SCALE



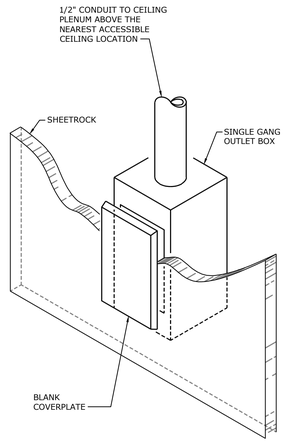

INCLUDES:

- PHONE OUTLETS
- DATA OUTLETS
- TELEVISION OUTLETS
- INTERCOM OUTLETS
- MICROPHONE OUTLETS

## COMMUNICATIONS / AV OUTLET DETAIL
NOT TO SCALE



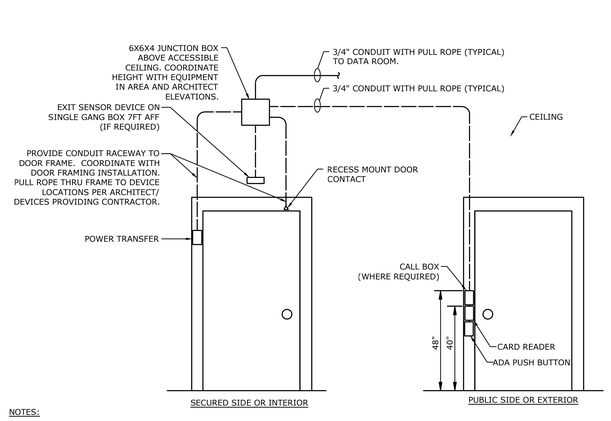

| SERVICE SIZE | (*) |
|---|---|
| 400 AMPS OR LESS | #1/0 CU IN 3/4" C. |
| 600 OR 800 AMPS | #2/0 CU IN 3/4" C. |
| 1,000 AMPS OR MORE | #3/0 CU IN 1" C. |




INCLUDES:

- VOLUME CONTROL DEVICES
- SPEAKERS
  (CEILING SPEAKERS DO NOT REQUIRE J-BOX)
- CARD READERS
- SECURITY CAMERAS
- PANIC BUTTONS

## PUBLIC ADDRESS / SECURITY OUTLET DETAIL
NOT TO SCALE



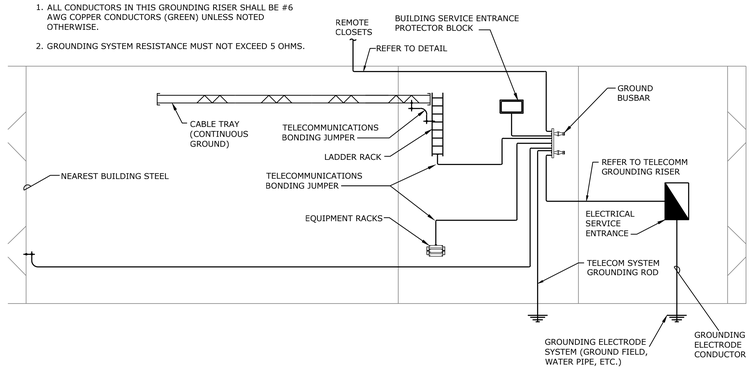

NOTES:

1. COORDINATE EXACT REQUIRMENTS OF DOOR ACCESS SYSTEM WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
2. ALL CONDUIT SHALL HAVE BUSHINGS ON BOTH ENDS TO PREVENT DAMAGE TO CABLE.
3. DOOR DEVICES AND CABLING BY SECURITY CONTRCTOR - REFER TO ACCESS CONTROL AND SECURITY EQUIPMENT LIST.

## SECURITY DOOR ROUGH-IN - SINGLE DOOR DETAIL
NOT TO SCALE (SYMBOL CR)

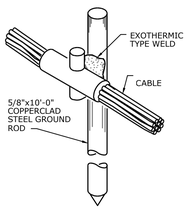
NOTE:

1. ALL CONDUCTORS IN THIS GROUNDING RISER SHALL BE #6 AWG COPPER CONDUCTORS (GREEN) UNLESS NOTED OTHERWISE.
2. GROUNDING SYSTEM RESISTANCE MUST NOT EXCEED 5 OHMS.

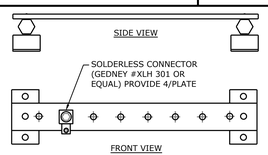



## TELECOMMUNICATIONS GROUNDING SYSTEM DIAGRAM
NOT TO SCALE

## ELECTRIC SERVICE GROUNDING DIAGRAM
NOT TO SCALE




## TYPICAL GROUND ROD CONNECTION
NOT TO SCALE




GROUND BUS ASSEMBLY:

1/4" X 2" X 18" COPPER GROUND BAR WITH 7/16" DIAMETER HOLES ON 2" CENTERS.

1-3/8" STAND-OFF INSULATORS WITH 3/8: 16 HARDWARE.

GALVANIZED MOUNTING BRACKETS, 14 GAUGE.

GROUND BUS ASSEMBLY AS MANUFACTURED BY EMI OR EQUAL.

## TELECOMMUNICATIONS GROUNDING BUS BAR DETAIL
NOT TO SCALE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| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

ELECTRICAL - SCHEDULES AND DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E303

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PROJECT NAME: 2516701 Parshall Hotel
AUTODESK FILE LOCATION \ NAME: Boelter • Revit w/Detailing - Parshall/2516701_Parshall_Hotel_Mechanical_v25_Detailing.rvt
LAST CORRECTION BY ◆ DATE ◆ TIME: Wednesday, April 29, 2026 11:02:29 AM
PLOTTED BY ◆ DATE ◆ TIME: Brady Charles Friday, May 1, 2026 4:22:30 PM

## PANEL SWBD

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 2,500 A | AIC: 65,000 A | | |
| MAIN BREAKER: 2,500 A GFI | SECTIONS: 1 - 8 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | SERVICE ENTRANCE | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| DP-OS | 3 | 2,000 | 1 | 2 | 100ST | 3 | ELEVATOR |
| PANEL LS1 | 3 | 150 | 3 | 4 | 200 | 3 | PANEL LM1 |
| | 3 | | 5 | 6 | | 3 | |
| | 3 | | 7 | 8 | | 3 | |

ST - SHUNT TRIP

## PANEL DP-OS

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 2,000 A | AIC: 65,000 A | | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 18 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| PANEL M1A | 3 | 400 | 1 | 2 | 400 | 3 | PANEL M1B |
| PANEL P1 | 3 | 125 | 3 | 4 | 150 | 3 | PANEL KP |
| PANEL M1C | 3 | 400 | 5 | 6 | 125 | 3 | PL1A |
| PL2A | 3 | 125 | 7 | 8 | 125 | 3 | PL2B |
| PL2C | 3 | 125 | 9 | 10 | 125 | 3 | PANEL L1 |
| PANEL CT | 3 | 125 | 11 | 12 | 400 | 3 | PANEL M2 |
| PANEL PM2 | 3 | 225 | 13 | 14 | 225 | 1 | INVERTER |
| | | | | | | 1 | PREPARED SPACE |
| | | | | | | 1 | PREPARED SPACE |
| PANEL LM2 | 3 | 125 | 15 | 16 | | 3 | |
| | 3 | | 17 | 18 | | 3 | |

## PANEL M1A

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 400 A | AIC: 65,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 66 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| DWH-1 | 1 | 20 | 1 | 2 | 20 | 1 | DWH-2 |
| DWH-3 | 1 | 20 | 3 | 4 | 20 | 1 | DWH-4 |
| RCP-1 | 1 | 15LCK | 5 | 6 | 30 | 2 | ACCU-2 |
| ACCU-1 | 2 | 30 | 7 | 8 | | | |
| | | | 9 | 10 | 15 | 3 | EUH-2 |
| EUH-1 | 3 | 15 | 11 | 12 | | | |
| | | | 13 | 14 | | | |
| | | | 15 | 16 | 20 | 3 | EUH-4 |
| EUH-3 | 3 | 15 | 17 | 18 | | | |
| | | | 19 | 20 | | | |
| | | | 21 | 22 | 20 | 3 | EUH-6 |
| EUH-5 | 3 | 20 | 23 | 24 | | | |
| | | | 25 | 26 | | | |
| | | | 27 | 28 | 20 | 3 | EUH-8 |
| EUH-7 | 3 | 20 | 29 | 30 | | | |
| | | | 31 | 32 | | | |
| | | | 33 | 34 | 20 | 3 | EUH-10 |
| EUH-9 | 3 | 20 | 35 | 36 | | | |
| | | | 37 | 38 | | | |
| | | | 39 | 40 | 20 | 1 | WS-1 |
| TMV-1 | 1 | 20 | 41 | 42 | 100 | 3 | RTU-1 |
| DOAS-1 | 3 | 125 | 43 | 44 | | | |
| | | | 45 | 46 | | | |
| | | | 47 | 48 | 15 | 1 | EF-3 |
| EF-6 | 1 | 15 | 49 | 50 | 15 | 1 | EF-2 |
| EF-5 | 1 | 15 | 51 | 52 | 30 | 2 | GENERATOR BLOCK HEATER |
| SPARE | 1 | 20 | 53 | 54 | | | |
| SPARE | 1 | 20 | 55 | 56 | 20 | 1 | GENERATOR BATTERY CHARGER |
| SPARE | 1 | 20 | 57 | 58 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 59 | 60 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 61 | 62 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 63 | 64 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 65 | 66 | 20 | 1 | SPARE |

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

## PANEL M1B

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 400 A | AIC: 65,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 54 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| VTAC-3 | 2 | 60 | 1 | 2 | 60 | 2 | VTAC-2 |
| | | | 3 | 4 | | | |
| VTAC-5 | 2 | 30 | 5 | 6 | 30 | 2 | VTAC-4 |
| | | | 7 | 8 | | | |
| VTAC-7 | 2 | 30 | 9 | 10 | 30 | 2 | VTAC-6 |
| | | | 11 | 12 | | | |
| VTAC-9 | 2 | 60 | 13 | 14 | 30 | 2 | VTAC-8 |
| | | | 15 | 16 | | | |
| VTAC-11 | 2 | 30 | 17 | 18 | 30 | 2 | VTAC-10 |
| | | | 19 | 20 | | | |
| REC - IT EQUIPMENT | 1 | 30 | 21 | 22 | 20 | 1 | REC - IT EQUIPMENT |
| REC - IT EQUIPMENT | 1 | 30 | 23 | 24 | 20 | 1 | REC - IT EQUIPMENT |
| REC - SECURITY EQUIPMENT | 1 | 20 | 25 | 26 | 20LCK | 1 | KITCHEN EQUIPMENT - E49 |
| SP-1 | 1 | 20 | 27 | 28 | 20 | 1 | SP-2 |
| SP-3 | 1 | 20 | 29 | 30 | 10 | 3 | DRYER - FACILITY LAUNDRY |
| WASHER - FACILITY LAUNDRY | 3 | 20 | 31 | 32 | | | |
| | | | 33 | 34 | | | |
| | | | 35 | 36 | 20 | 1 | DOOR HARDWARE |
| ELECTRIC WATER COOLER | 1 | 20GFI | 37 | 38 | 20LCK | 1 | HAND DRYER |
| VENDING MACHINE | 1 | 20GFI | 39 | 40 | 20 | 1 | ACCESS CONTROL |
| VAPORIZER | 3 | 25 | 41 | 42 | 20 | 1 | KITCHEN EQUIPMENT - E49A |
| | | | 43 | 44 | 20 | 1 | SPARE |
| | | | 45 | 46 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 47 | 48 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 49 | 50 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 51 | 52 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 53 | 54 | 20 | 1 | SPARE |

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

## PANEL M1C

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 400 A | AIC: 18,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 42 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ROOM 126 - VTAC | 2 | 30 | 1 | 2 | 30 | 2 | ROOM 127 - VTAC |
| | | | 3 | 4 | | | |
| ROOM 128 - VTAC | 2 | 30 | 5 | 6 | 30 | 2 | ROOM 129 - VTAC |
| | | | 7 | 8 | | | |
| ROOM 130 - VTAC | 2 | 30 | 9 | 10 | 30 | 2 | ROOM 131 - VTAC |
| | | | 11 | 12 | | | |
| ROOM 132 - VTAC | 2 | 30 | 13 | 14 | 30 | 2 | ROOM 133 - VTAC |
| | | | 15 | 16 | | | |
| ROOM 134 - VTAC | 2 | 30 | 17 | 18 | 30 | 2 | ROOM 135 - VTAC |
| | | | 19 | 20 | | | |
| ROOM 136 - VTAC | 2 | 30 | 21 | 22 | 30 | 2 | ROOM 137 - VTAC |
| | | | 23 | 24 | | | |
| SPARE | 1 | 20 | 25 | 26 | 30 | 2 | SPARE |
| SPARE | 1 | 20 | 27 | 28 | | | |
| SPARE | 1 | 20 | 29 | 30 | 30 | 2 | SPARE |
| SPARE | 1 | 20 | 31 | 32 | | | |
| PREPARED SPACE | 1 | | 33 | 34 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 35 | 36 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 37 | 38 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 39 | 40 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 41 | 42 | | 1 | PREPARED SPACE |

## PANEL PL1A

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 125 A | AIC: 10,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 72 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ROOM 126 - PLUG - MICROWAVE | 1 | 20AF | 1 | 2 | 20AF | 1 | ROOM 127 - PLUG - COUNTER |
| ROOM 126 - PLUG - COUNTER | 1 | 20AF | 3 | 4 | 20AF | 1 | ROOM 127 - PLUG - MICROWAVE |
| ROOM 126 - PLUG - BATHROOM REC | 1 | 20AF | 5 | 6 | 20AF | 1 | ROOM 127 - PLUG - BATHROOM REC |
| ROOM 126 - LTG - LTG AND EF | 1 | 20AF | 7 | 8 | 20AF | 1 | ROOM 127 - LTG - LTG AND EF |
| ROOM 126 - PLUG - BED WALL | 1 | 20AF | 9 | 10 | 20AF | 1 | ROOM 127 - PLUG - BED WALL |
| ROOM 126 - PLUG - TV WALL | 1 | 20AF | 11 | 12 | 20AF | 1 | ROOM 127 - PLUG - TV WALL |
| ROOM 130 - PLUG - MICROWAVE | 1 | 20AF | 13 | 14 | 20AF | 1 | ROOM 134 - PLUG - COUNTER |
| ROOM 130 - PLUG - COUNTER | 1 | 20AF | 15 | 16 | 20AF | 1 | ROOM 134 - PLUG - MICROWAVE |
| ROOM 130 - PLUG - BATHROOM REC | 1 | 20AF | 17 | 18 | 20AF | 1 | ROOM 134 - PLUG - BATHROOM REC |
| ROOM 130 - LTG - LTG AND EF | 1 | 20AF | 19 | 20 | 20AF | 1 | ROOM 134 - LTG - LTG AND EF |
| ROOM 130 - PLUG - BED/LIVING | 1 | 20AF | 21 | 22 | 20AF | 1 | ROOM 134 - PLUG - BED/LIVING |
| ROOM 132 - PLUG - MICROWAVE | 1 | 20AF | 23 | 24 | 20AF | 1 | ROOM 136 - PLUG - COUNTER |
| ROOM 132 - PLUG - COUNTER | 1 | 20AF | 25 | 26 | 20AF | 1 | ROOM 136 - PLUG - MICROWAVE |
| ROOM 132 - PLUG - BATHROOM REC | 1 | 20AF | 27 | 28 | 20AF | 1 | ROOM 136 - PLUG - BATHROOM REC |
| ROOM 132 - LTG - LTG AND EF | 1 | 20AF | 29 | 30 | 20AF | 1 | ROOM 136 - LTG - LTG AND EF |
| ROOM 132 - PLUG - BED/LIVING | 1 | 20AF | 31 | 32 | 20AF | 1 | ROOM 136 - PLUG - BED/LIVING |
| ROOM 128 - PLUG - MICROWAVE | 1 | 20AF | 33 | 34 | 20AF | 1 | ROOM 129 - PLUG - COUNTER |
| ROOM 128 - PLUG - COUNTER | 1 | 20AF | 35 | 36 | 20AF | 1 | ROOM 129 - PLUG - MICROWAVE |
| ROOM 128 - PLUG - BATHROOM REC | 1 | 20AF | 37 | 38 | 20AF | 1 | ROOM 129 - PLUG - BATHROOM REC |
| ROOM 128 - LTG - LTG AND EF | 1 | 20AF | 39 | 40 | 20AF | 1 | ROOM 129 - LTG - LTG AND EF |
| ROOM 128 - PLUG - BED WALL | 1 | 20AF | 41 | 42 | 20AF | 1 | ROOM 129 - PLUG - BED WALL |
| ROOM 128 - PLUG - TV WALL | 1 | 20AF | 43 | 44 | 20AF | 1 | ROOM 129 - PLUG - TV WALL |
| ROOM 131 - PLUG - MICROWAVE | 1 | 20AF | 45 | 46 | 20AF | 1 | ROOM 135 - PLUG - COUNTER |
| ROOM 131 - PLUG - COUNTER | 1 | 20AF | 47 | 48 | 20AF | 1 | ROOM 135 - PLUG - MICROWAVE |
| ROOM 131 - PLUG - BATHROOM REC | 1 | 20AF | 49 | 50 | 20AF | 1 | ROOM 135 - PLUG - BATHROOM REC |
| ROOM 131 - LTG - LTG AND EF | 1 | 20AF | 51 | 52 | 20AF | 1 | ROOM 135 - LTG - LTG AND EF |
| ROOM 131 - PLUG - BED/LIVING | 1 | 20AF | 53 | 54 | 20AF | 1 | ROOM 135 - PLUG - BED/LIVING |
| ROOM 133 - PLUG - MICROWAVE | 1 | 20AF | 55 | 56 | 20AF | 1 | ROOM 137 - PLUG - COUNTER |
| ROOM 133 - PLUG - COUNTER | 1 | 20AF | 57 | 58 | 20AF | 1 | ROOM 137 - PLUG - MICROWAVE |
| ROOM 133 - PLUG - BATHROOM REC | 1 | 20AF | 59 | 60 | 20AF | 1 | ROOM 137 - PLUG - BATHROOM REC |
| ROOM 133 - LTG - LTG AND EF | 1 | 20AF | 61 | 62 | 20AF | 1 | ROOM 137 - LTG - LTG AND EF |
| ROOM 133 - PLUG - BED/LIVING | 1 | 20AF | 63 | 64 | 20AF | 1 | ROOM 137 - PLUG - BED/LIVING |
| SPARE | 1 | 20AF | 65 | 66 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 67 | 68 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 69 | 70 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 71 | 72 | 20AF | 1 | SPARE |

AF - ARC FAULT BREAKER
LCK - LOCKABLE TAB
AG - COMBO AF AND GFI BREAKER

## PANEL P1

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 125 A | AIC: 42,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 42 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| FACP | 1 | 20LCK | 1 | 2 | 20 | 1 | REC - CRAWLSPACE |
| ELECTRIC FIRE PLACE | 1 | 20 | 3 | 4 | 20 | 1 | REC - OFFICE |
| REC - FRONT DESK | 1 | 20 | 5 | 6 | 20 | 1 | REC - BOH SPACES |
| REC - EXTERIOR | 1 | 20 | 7 | 8 | 20 | 1 | REC - BOH SPACES AND HALL |
| REC - BOH SPACES AND HALL | 1 | 20 | 9 | 10 | 20 | 1 | REC - BOH SPACES |
| REC - CONFERENCE ROOM | 1 | 20 | 11 | 12 | 20 | 1 | REC - DINING SPACE |
| REC - COMPUTER STATION | 1 | 20 | 13 | 14 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 15 | 16 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 17 | 18 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 19 | 20 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 21 | 22 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 23 | 24 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 25 | 26 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 27 | 28 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 29 | 30 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 31 | 32 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 33 | 34 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 35 | 36 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 37 | 38 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 39 | 40 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 41 | 42 | | 1 | PREPARED SPACE |

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

## PANEL L1

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 125 A | AIC: 42,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 42 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| LTG - PARKING LOT POLE LIGHTS | 1 | 20 | 1 | 2 | 20 | 1 | BUILDING SIGNAGE |
| BUILDING SIGNAGE | 1 | 20 | 3 | 4 | 20 | 1 | BUILDING SIGNAGE |
| LCP - LIGHTING CONTROL PANEL | 1 | 20 | 5 | 6 | 20 | 1 | BUILDING SIGNAGE - INTERIOR |
| LTG - CRAWLSPACE | 1 | 20 | 7 | 8 | 20 | 1 | LTG - BUILDING MTD SCONCES |
| LTG - BOH SPACES | 1 | 20 | 9 | 10 | 20 | 1 | LTG - 1ST FLR HALL ARCH LTG |
| LTG - 1ST FLR UNIT ENTRY DWNLTG | 1 | 20 | 11 | 12 | 20 | 1 | LTG - SERVERY TRACK LTG |
| LTG - NORTH STAIRWELL | 1 | 20 | 13 | 14 | 20 | 1 | LTG - SOUTH STAIRWELL |
| LTG - 2ND FLR HALL ARCH LTG | 1 | 20 | 15 | 16 | 20 | 1 | LTG - 2ND FLR UNIT ENTRY DWNLTG |
| LTG - LAUNDROMAT, NOTE 1 | 1 | 20 | 17 | 18 | 20 | 1 | LTG - LOBBY |
| LTG - LOBBY CASEWORK | 1 | 20 | 19 | 20 | 20 | 1 | LTG - DINING, CONF |
| SPARE | 1 | 20 | 21 | 22 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 23 | 24 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 25 | 26 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 27 | 28 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 29 | 30 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 31 | 32 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 33 | 34 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 35 | 36 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 37 | 38 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 39 | 40 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 41 | 42 | | 1 | PREPARED SPACE |

NOTE 1: PROVIDE SUBMETER. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.

## PANEL LS1

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 150 A | AIC: 65,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 30 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| LTG - CRAWLSPACE | 1 | 20 | 1 | 2 | 20 | 1 | LTG - BLD MTD WALL PACKS |
| LTG - BOH SPACES | 1 | 20 | 3 | 4 | 20 | 1 | LTG - 1ST FLR HALL DOWNLIGHTS |
| LTG - NORTH STAIRWELL | 1 | 20 | 5 | 6 | 20 | 1 | LTG - SOUTH STAIRWELL |
| LTG - ELEVATOR HOISTWAY | 1 | 20 | 7 | 8 | 20 | 1 | LTG - 2ND FLOOR BOH |
| LTG - 2ND FLOOR HALL DOWNLIGHTS | 1 | 20 | 9 | 10 | 20 | 1 | LTG - LAUNDROMAT, NOTE 1 |
| LTG - LOBBY, DINING, VESTIBULE | 1 | 20 | 11 | 12 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 13 | 14 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 15 | 16 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 17 | 18 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 19 | 20 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 21 | 22 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 23 | 24 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 25 | 26 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 27 | 28 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 29 | 30 | | 1 | PREPARED SPACE |

NOTE 1: PROVIDE SUBMETER. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.

## PANEL CT

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 125 A | AIC: 18,000 A | | |
| MAIN BREAKER: N/A | SECTIONS: 1-24 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: RECESSED | | |
| PHASES/WIRES: 1 PH / 3 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| VTAC-1 | 2 | 30 | 1 | 2 | 20AF | 1 | S-1 |
| | | | 3 | 4 | 30LCK | 2 | WASHER AND DRYER |
| STOVE TOP | 2 | 40 | 5 | 6 | | | |
| | | | 7 | 8 | 20AG | 1 | REC - REFRIGERATOR |
| DISHWASHER | 1 | 20 | 9 | 10 | 20AF | 1 | REC - MICROWAVE |
| REC - KITCHEN AND LIVING ROOM | 1 | 20AF | 11 | 12 | 20AF | 1 | REC - KITCHEN COUNTER |
| REC - BATHROOM | 1 | 20AF | 13 | 14 | 20AF | 1 | REC - BEDROOM |
| LTG - UNIT LIGHTING | 1 | 20AF | 15 | 16 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 17 | 18 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 19 | 20 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 21 | 22 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 23 | 24 | | 1 | PREPARED SPACE |

AF - ARC FAULT BREAKER
LCK - LOCKABLE TAB
AG - COMBO AF AND GFI BREAKER

## PANEL KP

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 150 A | AIC: 18,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 54 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: RECESSED | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| KITCHEN EQUIPMENT - E6 | 1 | 20GFI | 1 | 2 | 20GFI | 1 | KITCHEN EQUIPMENT - E7 |
| KITCHEN EQUIPMENT - E8 | 3 | 35LCK | 3 | 4 | 20GFI | 1 | KITCHEN EQUIPMENT - E12 |
| | | | 5 | 6 | 20LCK | 3 | KITCHEN EQUIPMENT - E18 |
| | | | 7 | 8 | | | |
| KITCHEN EQUIPMENT - E8A | 1 | 20 | 9 | 10 | | | |
| KITCHEN EQUIPMENT - E21 | 1 | 20GFI | 11 | 12 | 50GFI | 2 | KITCHEN EQUIPMENT - E19 |
| KITCHEN EQUIPMENT - E22 | 1 | 20 | 13 | 14 | | | |
| KITCHEN EQUIPMENT - E22 | 1 | 20 | 15 | 16 | 20 | 1 | KITCHEN EQUIPMENT - E24 |
| KITCHEN EQUIPMENT - E22 | 1 | 20 | 17 | 18 | 20 | 1 | KITCHEN EQUIPMENT - E32 |
| KITCHEN EQUIPMENT - E23 | 1 | 20 | 19 | 20 | 20 | 1 | KITCHEN EQUIPMENT - E36 |
| KITCHEN EQUIPMENT - E26 | 1 | 20 | 21 | 22 | 20 | 1 | KITCHEN EQUIPMENT - E36 |
| KITCHEN EQUIPMENT - E27 | 1 | 20 | 23 | 24 | 20 | 1 | KITCHEN EQUIPMENT - E37 |
| KITCHEN EQUIPMENT - E31 | 1 | 20 | 25 | 26 | 20 | 1 | KITCHEN EQUIPMENT - E39 |
| KITCHEN EQUIPMENT - E51 | 1 | 20GFI | 27 | 28 | 35LCK | 2 | KITCHEN EQUIPMENT - E41 |
| KITCHEN EQUIPMENT - E52 | 1 | 20GFI | 29 | 30 | | | |
| REC - KITCHEN | 1 | 20 | 31 | 32 | 20 | 1 | REC - SERVERY |
| REC - KITCHEN | 1 | 20 | 33 | 34 | 20 | 1 | REC - SERVERY |
| REC - KITCHEN | 1 | 20 | 35 | 36 | 20 | 1 | REC - SERVERY |
| REC - KITCHEN | 1 | 20 | 37 | 38 | 20 | 1 | REC - SERVERY |
| SPARE | 1 | 20 | 39 | 40 | 20 | 1 | REC - SERVERY |
| SPARE | 1 | 20 | 41 | 42 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 43 | 44 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 45 | 46 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 47 | 48 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 49 | 50 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 51 | 52 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 53 | 54 | 20 | 1 | SPARE |

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

## PANEL PL2A

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 125 A | AIC: 10,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 54 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ROOM 210 - PLUG - MICROWAVE | 1 | 20AF | 1 | 2 | 20AF | 1 | ROOM 208 - PLUG - COUNTER |
| ROOM 210 - PLUG - COUNTER | 1 | 20AF | 3 | 4 | 20AF | 1 | ROOM 208 - PLUG - MICROWAVE |
| ROOM 210 - PLUG - BATHROOM REC | 1 | 20AF | 5 | 6 | 20AF | 1 | ROOM 208 - PLUG - BATHROOM REC |
| ROOM 210 - LTG - LTG AND EF | 1 | 20AF | 7 | 8 | 20AF | 1 | ROOM 208 - LTG - LTG AND EF |
| ROOM 210 - PLUG - BED/LIVING | 1 | 20AF | 9 | 10 | 20AF | 1 | ROOM 208 - PLUG - BED/LIVING |
| ROOM 206 - PLUG - MICROWAVE | 1 | 20AF | 11 | 12 | 20AF | 1 | ROOM 204 - PLUG - COUNTER |
| ROOM 206 - PLUG - COUNTER | 1 | 20AF | 13 | 14 | 20AF | 1 | ROOM 204 - PLUG - MICROWAVE |
| ROOM 206 - PLUG - BATHROOM REC | 1 | 20AF | 15 | 16 | 20AF | 1 | ROOM 204 - PLUG - BATHROOM REC |
| ROOM 206 - LTG - LTG AND EF | 1 | 20AF | 17 | 18 | 20AF | 1 | ROOM 204 - LTG - LTG AND EF |
| ROOM 206 - PLUG - BED/LIVING | 1 | 20AF | 19 | 20 | 20AF | 1 | ROOM 204 - PLUG - BED/LIVING |
| ROOM 202 - PLUG - MICROWAVE | 1 | 20AF | 21 | 22 | 20AF | 1 | ROOM 214 - PLUG - COUNTER |
| ROOM 202 - PLUG - COUNTER | 1 | 20AF | 23 | 24 | 20AF | 1 | ROOM 214 - PLUG - MICROWAVE |
| ROOM 202 - PLUG - BATHROOM REC | 1 | 20AF | 25 | 26 | 20AF | 1 | ROOM 214 - PLUG - BATHROOM REC |
| ROOM 202 - LTG - LTG AND EF | 1 | 20AF | 27 | 28 | 20AF | 1 | ROOM 214 - LTG - LTG AND EF |
| ROOM 202 - PLUG - BED/LIVING | 1 | 20AF | 29 | 30 | 20AF | 1 | ROOM 214 - PLUG - BED/LIVING |
| ROOM 212 - PLUG - MICROWAVE | 1 | 20AF | 31 | 32 | 20AF | 1 | ROOM 216 - PLUG - COUNTER |
| ROOM 212 - PLUG - COUNTER | 1 | 20AF | 33 | 34 | 20AF | 1 | ROOM 216 - PLUG - MICROWAVE |
| ROOM 212 - PLUG - BATHROOM REC | 1 | 20AF | 35 | 36 | 20AF | 1 | ROOM 216 - PLUG - BATHROOM REC |
| ROOM 212 - LTG - LTG AND EF | 1 | 20AF | 37 | 38 | 20AF | 1 | ROOM 216 - LTG - LTG AND EF |
| ROOM 212 - PLUG - BED/LIVING | 1 | 20AF | 39 | 40 | 20AF | 1 | ROOM 216 - PLUG - BED/LIVING |
| LTG - 2ND FLOOR BOH | 1 | 20AF | 41 | 42 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 43 | 44 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 45 | 46 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 47 | 48 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 49 | 50 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 51 | 52 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 53 | 54 | 20AF | 1 | SPARE |

AF - ARC FAULT BREAKER
LCK - LOCKABLE TAB
AG - COMBO AF AND GFI BREAKER

## PANEL PL2B

| | | | |
|---|---|---|---|
| MAIN BUS AMPS: 125 A | AIC: 10,000 A | MAIN LUGS ONLY | |
| MAIN BREAKER: N/A | SECTIONS: 1 - 54 SPACE | EQUIPMENT GROUND BUS | |
| VOLTAGE: 208Y/120 V | MOUNTING: SURFACE | | |
| PHASES/WIRES: 3 PH / 4 W | ENCLOSURE TYPE: NEMA 1 | | |

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ROOM 218 - PLUG - MICROWAVE | 1 | 20AF | 1 | 2 | 20AF | 1 | ROOM 222 - PLUG - COUNTER |
| ROOM 218 - PLUG - COUNTER | 1 | 20AF | 3 | 4 | 20AF | 1 | ROOM 222 - PLUG - MICROWAVE |
| ROOM 218 - PLUG - BATHROOM REC | 1 | 20AF | 5 | 6 | 20AF | 1 | ROOM 222 - PLUG - BATHROOM REC |
| ROOM 218 - LTG - LTG AND EF | 1 | 20AF | 7 | 8 | 20AF | 1 | ROOM 222 - LTG - LTG AND EF |
| ROOM 218 - PLUG - BED/LIVING | 1 | 20AF | 9 | 10 | 20AF | 1 | ROOM 222 - PLUG - BED/LIVING |
| ROOM 220 - PLUG - MICROWAVE | 1 | 20AF | 11 | 12 | 20AF | 1 | ROOM 224 - PLUG - COUNTER |
| ROOM 220 - PLUG - COUNTER | 1 | 20AF | 13 | 14 | 20AF | 1 | ROOM 224 - PLUG - MICROWAVE |
| ROOM 220 - PLUG - BATHROOM REC | 1 | 20AF | 15 | 16 | 20AF | 1 | ROOM 224 - PLUG - BATHROOM REC |
| ROOM 220 - LTG - LTG AND EF | 1 | 20AF | 17 | 18 | 20AF | 1 | ROOM 224 - LTG - LTG AND EF |
| ROOM 220 - PLUG - BED/LIVING | 1 | 20AF | 19 | 20 | 20AF | 1 | ROOM 224 - PLUG - BED/LIVING |
| ROOM 219 - PLUG - MICROWAVE | 1 | 20AF | 21 | 22 | 20AF | 1 | ROOM 223 - PLUG - COUNTER |
| ROOM 219 - PLUG - COUNTER | 1 | 20AF | 23 | 24 | 20AF | 1 | ROOM 223 - PLUG - MICROWAVE |
| ROOM 219 - PLUG - BATHROOM REC | 1 | 20AF | 25 | 26 | 20AF | 1 | ROOM 223 - PLUG - BATHROOM REC |
| ROOM 219 - LTG - LTG AND EF | 1 | 20AF | 27 | 28 | 20AF | 1 | ROOM 223 - LTG - LTG AND EF |
| ROOM 219 - PLUG - BED/LIVING | 1 | 20AF | 29 | 30 | 20AF | 1 | ROOM 223 - PLUG - BED/LIVING |
| ROOM 221 - PLUG - MICROWAVE | 1 | 20AF | 31 | 32 | 20AF | 1 | ROOM 225 - PLUG - COUNTER |
| ROOM 221 - PLUG - COUNTER | 1 | 20AF | 33 | 34 | 20AF | 1 | ROOM 225 - PLUG - MICROWAVE |
| ROOM 221 - PLUG - BATHROOM REC | 1 | 20AF | 35 | 36 | 20AF | 1 | ROOM 225 - PLUG - BATHROOM REC |
| ROOM 221 - LTG - LTG AND EF | 1 | 20AF | 37 | 38 | 20AF | 1 | ROOM 225 - LTG - LTG AND EF |
| ROOM 221 - PLUG - BED/LIVING | 1 | 20AF | 39 | 40 | 20AF | 1 | ROOM 225 - PLUG - BED/LIVING |
| SPARE | 1 | 20AF | 41 | 42 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 43 | 44 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 45 | 46 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 47 | 48 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 49 | 50 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 51 | 52 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 53 | 54 | 20AF | 1 | SPARE |

AF - ARC FAULT BREAKER
LCK - LOCKABLE TAB
AG - COMBO AF AND GFI BREAKER


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New Town, ND 58763

Owner


# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## ELECTRICAL - SCHEDULES AND DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E304


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PROJECT NAME: 2516701 Parshall Hotel
AUTOCAD FILE LOCATION \ NAME: C:\SBI\Smith & Boucher Inc\SANDBINC365 - Documents\25\25167\2516701 Parshall Hotel\Drawings\06-2516701_E304.dwg
LAST CORRECTION BY ◆ DATE ◆ TIME: Bootyc Wednesday, April 29, 2026 11:03:07 AM
PLOTTED BY ◆ DATE ◆ TIME: Booty Charles Friday, May 1, 2026 4:22:52 PM

## PANEL LM1

**MAIN BUS AMPS:** 200 A | **AIC:** 42,000 A | **MAIN LUGS ONLY**
**MAIN BREAKER:** N/A | **SECTIONS:** 1 - 66 SPACE | **EQUIPMENT GROUND BUS**
**VOLTAGE:** 208Y/120 V | **MOUNTING:** SURFACE
**PHASES/WIRES:** 3 PH / 4 W | **ENCLOSURE TYPE:** NEMA 1

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| WASHER | 2 | 15 | 1 | 2 | 15 | 2 | WASHER |
| | | | 3 | 4 | | | |
| WASHER | 2 | 15 | 5 | 6 | 15 | 2 | WASHER |
| | | | 7 | 8 | | | |
| WASHER | 2 | 15 | 9 | 10 | 15 | 2 | WASHER |
| | | | 11 | 12 | | | |
| WASHER | 2 | 15 | 13 | 14 | 15 | 2 | WASHER |
| | | | 15 | 16 | | | |
| WASHER | 2 | 15 | 17 | 18 | 15 | 2 | WASHER |
| | | | 19 | 20 | | | |
| WASHER | 2 | 15 | 21 | 22 | 15 | 2 | WASHER |
| | | | 23 | 24 | | | |
| WASHER | 2 | 20 | 25 | 26 | 20 | 2 | WASHER |
| | | | 27 | 28 | | | |
| DRYER | 3 | 15LCK | 29 | 30 | 15LCK | 3 | DRYER |
| | | | 31 | 32 | | | |
| | | | 33 | 34 | | | |
| DRYER | 3 | 15LCK | 35 | 36 | 15LCK | 3 | DRYER |
| | | | 37 | 38 | | | |
| | | | 39 | 40 | | | |
| DRYER | 3 | 15LCK | 41 | 42 | 15LCK | 3 | DRYER |
| | | | 43 | 44 | | | |
| | | | 45 | 46 | | | |
| DRYER | 3 | 10LCK | 47 | 48 | | 1 | PREPARED SPACE |
| | | | 49 | 50 | | 1 | PREPARED SPACE |
| | | | 51 | 52 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 53 | 54 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 55 | 56 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 57 | 58 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 59 | 60 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 61 | 62 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 63 | 64 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 65 | 66 | | 1 | PREPARED SPACE |

LCK - LOCKABLE TAB

## PANEL LM2

**MAIN BUS AMPS:** 125 A | **AIC:** 18,000 A | **MAIN LUGS ONLY**
**MAIN BREAKER:** N/A | **SECTIONS:** 1 - 30 SPACE | **EQUIPMENT GROUND BUS**
**VOLTAGE:** 208Y/120 V | **MOUNTING:** SURFACE
**PHASES/WIRES:** 3 PH / 4 W | **ENCLOSURE TYPE:** NEMA 1

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ELECTRIC HAND DRYER | 1 | 20LCK | 1 | 2 | 20 | 1 | DOOR HARDWARE |
| ELECTRIC HAND DRYER | 1 | 20LCK | 3 | 4 | 20 | 1 | CEILING MOUNTED TVS |
| VENDING MACHINE | 1 | 20GFI | 5 | 6 | 20 | 1 | REC - CONVENIENCE |
| VENDING MACHINE | 1 | 20GFI | 7 | 8 | 20 | 1 | WALL MOUNTED TV |
| VENDING MACHINE | 2 | 30 | 9 | 10 | 20GFI | 1 | ELECTRIC WATER COOLER |
| | | | 11 | 12 | 20 | 1 | CEILING MOUNTED TVS |
| PREPARED SPACE | 1 | 20 | 13 | 14 | 20LCK | 1 | PAPER TOWEL DISPENSER |
| SPARE | 1 | 20 | 15 | 16 | 20 | 1 | CHANGE MACHINE(S) |
| SPARE | 1 | 20 | 17 | 18 | 20 | 1 | LAUNDRY PRODUCT VENDING |
| SPARE | 1 | 20 | 19 | 20 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 21 | 22 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 23 | 24 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 25 | 26 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 27 | 28 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 29 | 30 | 20 | 1 | SPARE |

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

## INV - INVERTER SCHEDULE

| CIRCUIT | LOAD DESCRIPTION | CIRCUIT BREAKER | LOAD (VA) | REMARKS |
|---|---|---|---|---|
| 1 | EF-1 | 20A-1P NORMALLY ON | 200 | 1 |
| 2 | LIGHT FIXTURES | 20A-1P NORMALLY ON | 400 | 1 |
| 3 | FLOORBOX | 20A-1P NORMALLY ON | 1000 | 1 |
| 4 | FLOORBOX | 20A-1P NORMALLY ON | 1000 | 1 |
| 5 | FLOORBOX | 20A-1P NORMALLY ON | 1000 | 1 |
| 6 | FLOORBOX | 20A-1P NORMALLY ON | 1000 | 1 |
| 7 | REC - CONVENIENCE | 20A-1P NORMALLY ON | 1080 | 1 |
| 8 | HAND DRYER | 20A-1P LCK NORMALLY ON | 800 | 1 |
| 9 | ELECTRIC WATER COOLER | 20A-1P GFI NORMALLY ON | 500 | 1 |

GENERAL NOTES:
PROVIDE 10 KW, 120V/1PH IN - 120V/1PH OUT, MYERS ILLUMINATOR SUPERNOVA OUTPUT BREAKERS FOR NOTED LOADS, NO BYPASS, CAPACITY SIZED PER NOTES BELOW OR EQUAL. AIC RATING OF 65,000.

KEYED NOTES:
1: INVERTER SYSTEM IS TO PROVIDE A MINIMUM RUN TIME OF 2 HOURS FOR ALL NOTED LOADS. A MINIMUM RUN TIME OF 90 MINUTES WILL NOT BE ACCEPTABLE FOR THIS STORM SHELTER APPLICATION.

## PANEL PL2C

**MAIN BUS AMPS:** 125 A | **AIC:** 10,000 A | **MAIN LUGS ONLY**
**MAIN BREAKER:** N/A | **SECTIONS:** 1 - 54 SPACE | **EQUIPMENT GROUND BUS**
**VOLTAGE:** 208Y/120 V | **MOUNTING:** SURFACE
**PHASES/WIRES:** 3 PH / 4 W | **ENCLOSURE TYPE:** NEMA 1

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ROOM 217 - PLUG - MICROWAVE | 1 | 20AF | 1 | 2 | 20AF | 1 | ROOM 215 - PLUG - COUNTER |
| ROOM 217 - PLUG - COUNTER | 1 | 20AF | 3 | 4 | 20AF | 1 | ROOM 215 - PLUG - MICROWAVE |
| ROOM 217 - PLUG - BATHROOM REC | 1 | 20AF | 5 | 6 | 20AF | 1 | ROOM 215 - PLUG - BATHROOM REC |
| ROOM 217 - LTG - LTG AND EF | 1 | 20AF | 7 | 8 | 20AF | 1 | ROOM 215 - LTG - LTG AND EF |
| ROOM 217 - PLUG - BED WALL | 1 | 20AF | 9 | 10 | 20AF | 1 | ROOM 215 - PLUG - BED WALL |
| ROOM 217 - PLUG - TV WALL | 1 | 20AF | 11 | 12 | 20AF | 1 | ROOM 215 - PLUG - TV WALL |
| ROOM 213 - PLUG - MICROWAVE | 1 | 20AF | 13 | 14 | 20AF | 1 | ROOM 211 - PLUG - COUNTER |
| ROOM 213 - PLUG - COUNTER | 1 | 20AF | 15 | 16 | 20AF | 1 | ROOM 211 - PLUG - MICROWAVE |
| ROOM 213 - PLUG - BATHROOM REC | 1 | 20AF | 17 | 18 | 20AF | 1 | ROOM 211 - PLUG - BATHROOM REC |
| ROOM 213 - LTG - LTG AND EF | 1 | 20AF | 19 | 20 | 20AF | 1 | ROOM 211 - LTG - LTG AND EF |
| ROOM 213 - PLUG - BED/LIVING | 1 | 20AF | 21 | 22 | 20AF | 1 | ROOM 211 - PLUG - BED/LIVING |
| ROOM 205 - PLUG - MICROWAVE | 1 | 20AF | 23 | 24 | 20AF | 1 | ROOM 203 - PLUG - COUNTER |
| ROOM 205 - PLUG - COUNTER | 1 | 20AF | 25 | 26 | 20AF | 1 | ROOM 203 - PLUG - MICROWAVE |
| ROOM 205 - PLUG - BATHROOM REC | 1 | 20AF | 27 | 28 | 20AF | 1 | ROOM 203 - PLUG - BATHROOM REC |
| ROOM 205 - LTG - LTG AND EF | 1 | 20AF | 29 | 30 | 20AF | 1 | ROOM 203 - LTG - LTG AND EF |
| ROOM 205 - PLUG - BED/LIVING | 1 | 20AF | 31 | 32 | 20AF | 1 | ROOM 203 - PLUG - BED/LIVING |
| ROOM 207 - PLUG - MICROWAVE | 1 | 20AF | 33 | 34 | 20AF | 1 | ROOM 209 - PLUG - COUNTER |
| ROOM 207 - PLUG - COUNTER | 1 | 20AF | 35 | 36 | 20AF | 1 | ROOM 209 - PLUG - MICROWAVE |
| ROOM 207 - PLUG - BATHROOM REC | 1 | 20AF | 37 | 38 | 20AF | 1 | ROOM 209 - PLUG - BATHROOM REC |
| ROOM 207 - LTG - LTG AND EF | 1 | 20AF | 39 | 40 | 20AF | 1 | ROOM 209 - LTG - LTG AND EF |
| ROOM 207 - PLUG - BED WALL | 1 | 20AF | 41 | 42 | 20AF | 1 | ROOM 209 - PLUG - BED WALL |
| ROOM 207 - PLUG - TV WALL | 1 | 20AF | 43 | 44 | 20AF | 1 | ROOM 209 - PLUG - TV WALL |
| SPARE | 1 | 20AF | 45 | 46 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 47 | 48 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 49 | 50 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 51 | 52 | 20AF | 1 | SPARE |
| SPARE | 1 | 20AF | 53 | 54 | 20AF | 1 | SPARE |

AF - ARC FAULT BREAKER
LCK - LOCKABLE TAB
AG - COMBO AF AND GFI BREAKER

## PANEL M2

**MAIN BUS AMPS:** 400 A | **AIC:** 22,000 A | **MAIN LUGS ONLY**
**MAIN BREAKER:** N/A | **SECTIONS:** 1 - 42 SPACE | **EQUIPMENT GROUND BUS**
**VOLTAGE:** 208Y/120 V | **MOUNTING:** SURFACE
**PHASES/WIRES:** 3 PH / 4 W | **ENCLOSURE TYPE:** NEMA 1

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| VTAC-12 | 2 | 30 | 1 | 2 | 30 | 2 | ROOM 203 - VTAC |
| | | | 3 | 4 | | | |
| ROOM 202 - VTAC | 2 | 30 | 5 | 6 | 30 | 2 | ROOM 205 - VTAC |
| | | | 7 | 8 | | | |
| ROOM 204 - VTAC | 2 | 30 | 9 | 10 | 30 | 2 | ROOM 207 - VTAC |
| | | | 11 | 12 | | | |
| ROOM 206 - VTAC | 2 | 30 | 13 | 14 | 30 | 2 | ROOM 209 - VTAC |
| | | | 15 | 16 | | | |
| ROOM 208 - VTAC | 2 | 30 | 17 | 18 | 30 | 2 | ROOM 211 - VTAC |
| | | | 19 | 20 | | | |
| ROOM 210 - VTAC | 2 | 30 | 21 | 22 | 30 | 2 | ROOM 213 - VTAC |
| | | | 23 | 24 | | | |
| ROOM 212 - VTAC | 2 | 30 | 25 | 26 | 30 | 2 | ROOM 215 - VTAC |
| | | | 27 | 28 | | | |
| ROOM 214 - VTAC | 2 | 30 | 29 | 30 | 30 | 2 | ROOM 217 - VTAC |
| | | | 31 | 32 | | | |
| ROOM 216 - VTAC | 2 | 30 | 33 | 34 | 20 | 1 | SPARE |
| | | | 35 | 36 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 37 | 38 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 39 | 40 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 41 | 42 | 20 | 1 | SPARE |

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB

## PANEL PM2

**MAIN BUS AMPS:** 225 A | **AIC:** 18,000 A | **MAIN LUGS ONLY**
**MAIN BREAKER:** N/A | **SECTIONS:** 1 - 42 SPACE | **EQUIPMENT GROUND BUS**
**VOLTAGE:** 208Y/120 V | **MOUNTING:** SURFACE
**PHASES/WIRES:** 3 PH / 4 W | **ENCLOSURE TYPE:** NEMA 1

| CIRCUIT DESCRIPTION | POLES | AMPS | CKT NO | CKT NO | AMPS | POLES | CIRCUIT DESCRIPTION |
|---|---|---|---|---|---|---|---|
| KITCHEN EQUIPMENT - E49 | 1 | 20LCK | 1 | 2 | 20GFI | 1 | REC - VENDING MACHINE |
| REC - ELEVATOR HOISTWAY | 1 | 20 | 3 | 4 | 20 | 1 | REC - BOH 2nd FLOOR |
| REC - 2nd FLOOR CORRIDOR | 1 | 20 | 5 | 6 | 20 | 1 | REC - ROOF |
| ROOM 218 - VTAC | 2 | 30 | 7 | 8 | 30 | 2 | ROOM 219 - VTAC |
| | | | 9 | 10 | | | |
| ROOM 220 - VTAC | 2 | 30 | 11 | 12 | 30 | 2 | ROOM 221 - VTAC |
| | | | 13 | 14 | | | |
| ROOM 222 - VTAC | 2 | 30 | 15 | 16 | 30 | 2 | ROOM 223 - VTAC |
| | | | 17 | 18 | | | |
| ROOM 224 - VTAC | 2 | 30 | 19 | 20 | 30 | 2 | ROOM 225 - VTAC |
| | | | 21 | 22 | | | |
| DOOR HOLD | 1 | 20LCK | 23 | 24 | 20 | 1 | KITCHEN EQUIPMENT - E49A |
| SPARE | 1 | 20 | 25 | 26 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 27 | 28 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 29 | 30 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 31 | 32 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 33 | 34 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 35 | 36 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 37 | 38 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 39 | 40 | | 1 | PREPARED SPACE |
| PREPARED SPACE | 1 | | 41 | 42 | | 1 | PREPARED SPACE |

GFI - GROUND FAULT BREAKER
LCK - LOCKABLE TAB


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307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/08/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| 2 | 03/24/2026 | RFI#021 |
| 3 | 01/30/2026 | BP2.0R ADD3.0 |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

# ELECTRICAL - SCHEDULES AND DETAILS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
E305

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PROJECT NAME ◆ LOCATION \ NAME
ARCHITECT ◆ LOCATION \ NAME
LAST CORRECTION BY ◆ DATE ◆ TIME:
PLOTTED BY ◆ DATE ◆ TIME:

2516701 Parshall Hotel
C:\Users\...\2516701 Parshall Hotel_Central_sbucher.rvt
Boelter Wednesday, April 29, 2026 11:03:41 AM
Booty Charles Friday, May 1, 2026 4:23:02 PM

PLAN NOTES:

1 SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLERS AS REQUIRED.

2 SMOKE AND HEAT DETECTOR LOCATED IN ELEVATOR PIT. PROVIDE ADDITIONAL HEAT DETECTOR WITHIN 24" OF EACH ELEVATOR SHAFT SPRINKLER HEAD AS REQUIRED.

3 PROVIDE WEATHER ROOF HORN/STROBE. MOUNT ABOVE FIRE DEPARTMENT CONNECTION. COORDINATE EXACT LOCATION WITH FIRE PROTECTION CONTRACTOR.

1 FIRST FLOOR FIRE ALARM PLAN
1/8" = 1'-0"

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Consultants

Mandan, Hidatsa and Arikara Nation
Three Affiliated Tribes of North Dakota
307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

**Revisions**

| No. | Date | Revision Description |
|---|---|---|
| | 09/18/2025 | Bid Package 2.0 |
| | 10/01/2025 | Design Development |
| | 11/06/2025 | 50% Construction Documents |
| | 12/01/2025 | Modular Package |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## FIRST FLOOR FIRE ALARM PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
FA101

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PLAN NOTES:

1 SMOKE DETECTOR FOR ELEVATOR RECALL. MAKE CONNECTIONS TO ELEVATOR CONTROLLERS AS REQUIRED.

2 SMOKE AND HEAT DETECTOR LOCATED IN ELEVATOR HOISTWAY. PROVIDE ADDITIONAL HEAT DETECTOR WITHIN 24" OF EACH ELEVATOR SHAFT SPRINKLER HEAD AS REQUIRED.

3 LOCATE SMOKE DETECTOR WITHIN 5'-0" OF DOOR WITH ASSOCIATED DOOR HOLD DEVICE.

1 SECOND FLOOR FIRE ALARM PLAN
1/8" = 1'-0"

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**Revisions**

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| | 01/06/2026 | Issued for Bid, BP2.0R |
| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## SECOND FLOOR FIRE ALARM PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
FA102

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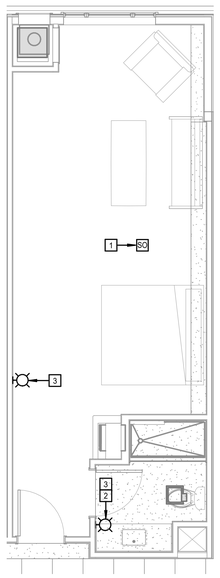
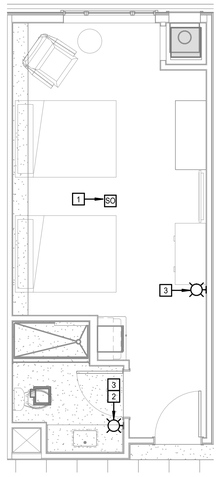
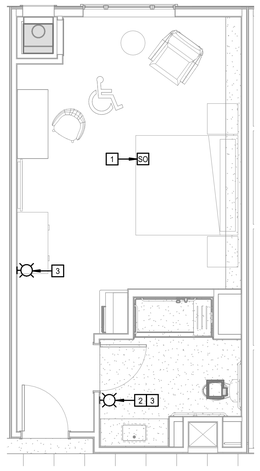


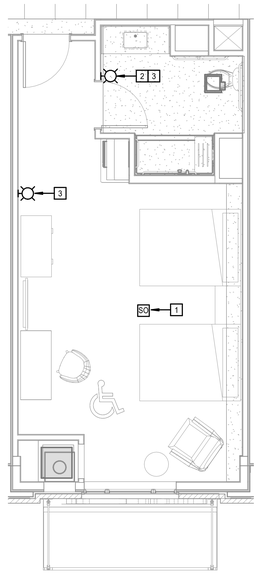

1 FIRE ALARM UNIT PLAN - KING SUITE
1/4" = 1'-0"




2 FIRE ALARM UNIT PLAN - KING STANDARD
1/4" = 1'-0"

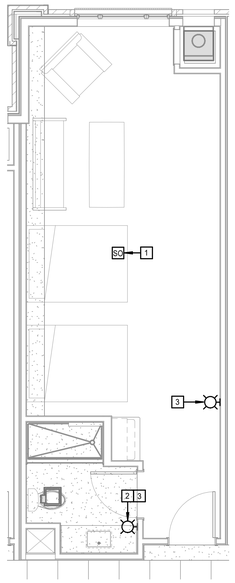



3 FIRE ALARM UNIT PLAN - KING ACCESSIBLE
1/4" = 1'-0"

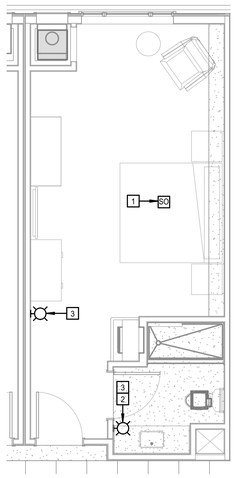



4 FIRE ALARM UNIT PLAN - DOUBLE QUEEN DELUXE ACCESSIBLE
1/4" = 1'-0"

5 FIRE ALARM UNIT PLAN - CARETAKER
1/4" = 1'-0"




6 FIRE ALARM UNIT PLAN - DOUBLE QUEEN SUITE
1/4" = 1'-0"




7 FIRE ALARM UNIT PLAN - KING STANDARD
1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E103 FOR TYPICAL GUESTROOM GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

1 CEILING MOUNTED SYSTEM COMBINATION CARBON MONOXIDE AND SMOKE DETECTOR WITH LOW FREQUENCY SOUNDER BASE.

2 LOCATE STROBE DIRECTLY ABOVE LIGHT SWITCHES IN BATHROOMS.

3 INSTALL FIRE ALARM STROBE IN HEARING IMPAIRED ROOMS ONLY.

4 120V SYSTEM COMBINATION CARBON MONOXIDE/SMOKE DETECTOR TO BE CIRCUITED WITH AN UNSWITCHED HOT CONDUCTOR. PROVIDE WITH LOW FREQUENCY 520 Hz SOUNDER BASE. ALL DETECTORS WITHIN A UNIT SHALL BE INTERCONNECTED AND ON THE SAME PHASE. ALL DETECTORS TO HAVE BATTERY BACK-UP. DO NOT INSTALL WITHIN 36" OF AIR GRILLES OR WITHIN KITCHENS.

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| | 05/04/2026 | Issued for Re-Bid, BP2.0R1 |

## UNITS FIRE ALARM PLANS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
FA103

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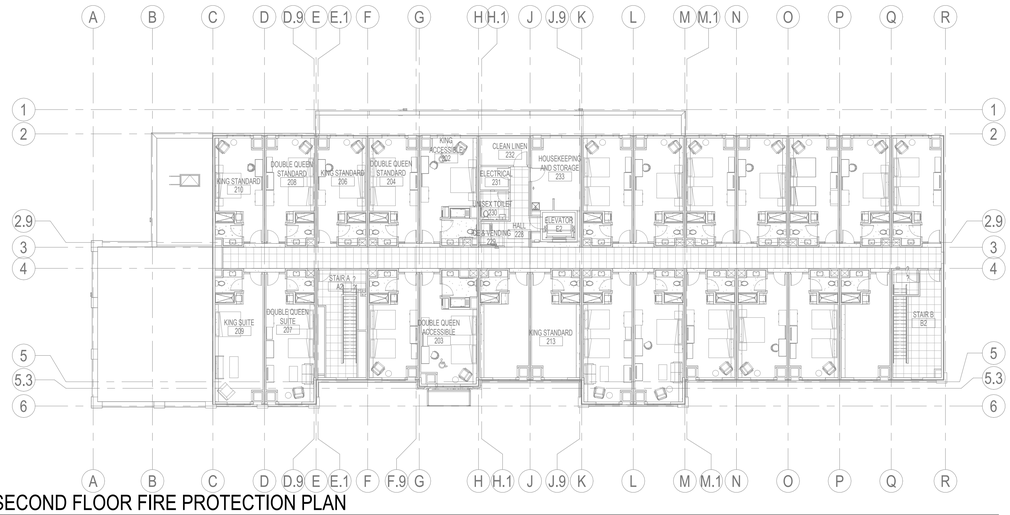
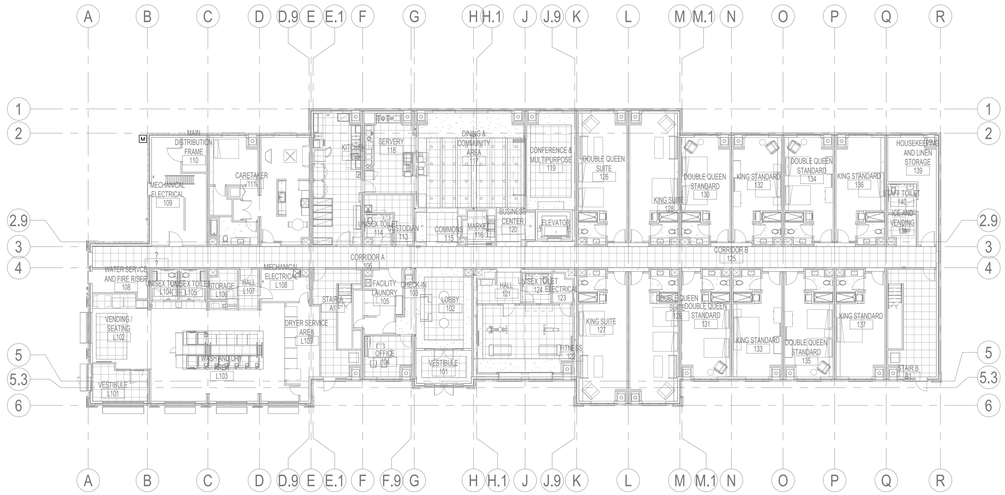


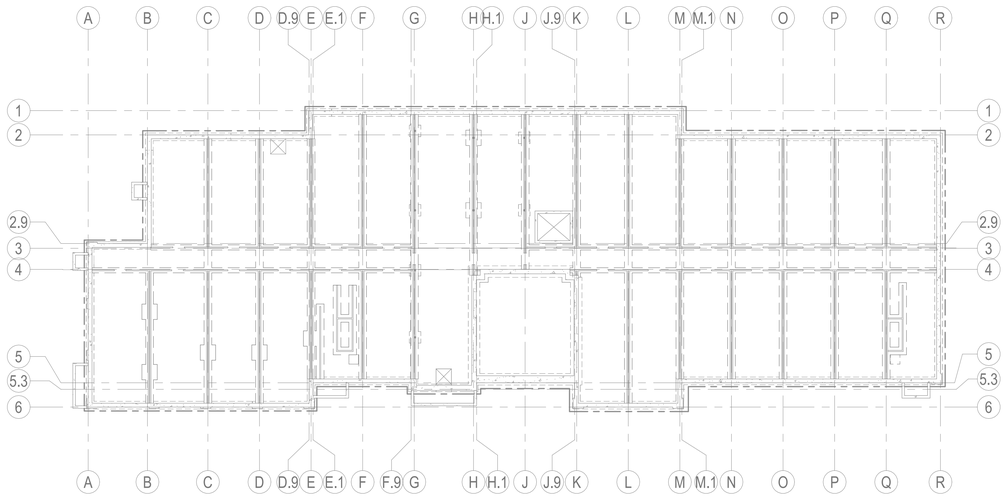

3 SECOND FLOOR FIRE PROTECTION PLAN

1/16" = 1'-0"




2 FIRST FLOOR FIRE PROTECTION PLAN

1/16" = 1'-0"




1 LOWER LEVEL FIRE PROTECTION PLAN

1/16" = 1'-0"

GENERAL NOTES:

1. PROVIDE NFPA 13 COMPLIANT SPRINKLER SYSTEM FOR THE ENTIRE FACILITY.
2. CAREFULLY COORDINATE ALL SPRINKLER HEAD TYPES, COLOR, AND EXPOSED PIPING LOCATIONS WITH ARCHITECT FOR DESIRED AESTHETICS OF THE SPACES PRIOR TO INSTALLATION.
   a. REFER TO ARCHITECTURAL RCP LAYOUT FOR CEILING TYPES AND SPACES OPEN TO STRUCTURE.
   b. GYP. CEILINGS REQUIRE CONCEALED HEADS WITH COVER. WHITE COLOR FOR WHITE CEILNIGS. PROVIDE CUSTOM COLOR BY ARCHITECT.
   c. WOOD AND OTHER SPECIALTY CEILINGS SHALL USE CONCEALED HEADS WITH CUSTOM FINISH BY ARCHITECT.
   d. ACT CEILINGS PROVIDE SEMI-RECESSED PENDANT HEADS.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CAREFULLY COORDINATE PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
5. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
6. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.

PLAN NOTES:

1. COMBINED 6" DOMESTIC WATER AND FIRE PROTECTION SERVICE ENTRANCE. PROVIDE 6" FIRE PROTECTION BACKFLOW PREVENTOR TAPPED FROM COMBINED SERVICE IN THE WATER SERVICE ROOM.
2. ELECTRICAL ROOM. COORDINATE SPRINKLER PIPING ROUTING SUCH THAT IT IS NOT DIRECTLY ABOVE ANY PANELS.
3. FIRE ALARM PANEL LOCATION. SHOWN FOR REFERENCE ONLY, REFER TO ELECTRICAL SHEETS FOR EXACT LOCATION AND REQUIREMNTS.
4. IT ROOM. DO NOT ROUTE SPRINKLER PIPING THROUGH IT ROOMS. PROVIDE SIDEWALL HEADS.
5. ROUTE 2ND FLOOR FIRE PROTECTION PIPING UP IN CHASE.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## FIRE PROTECTION PLANS

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
FP101

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POWER GENERAL NOTES:

1. REFER TO SHEET E201 FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

1 REFER TO SHEET E201 FOR FLOORBOX AND POKE-THRU INFORMATION.

2 COORDINATE CONDUIT ROUTING FOR DEVICES WITHIN CASEWORK WITH A/E PRIOR TO ROUGH-IN.

3 COORDINATE LOCATION OF DEVICES SERVING TV WITH ARCHITECT PRIOR TO ROUGH-IN.

1 FIRST FLOOR IT PLAN
1/8" = 1'-0"

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## FIRST FLOOR IT PLAN

Project No.: 22.1010
Date: 05/04/2026
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SHEET NUMBER
LV101

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1 SECOND FLOOR IT PLAN
1/8" = 1'-0"

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## SECOND FLOOR IT PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SBI
Checked by: CEA

SHEET NUMBER
LV102

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GENERAL NOTES:

1. REFER TO SHEET E103 FOR TYPICAL GUESTROOM GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

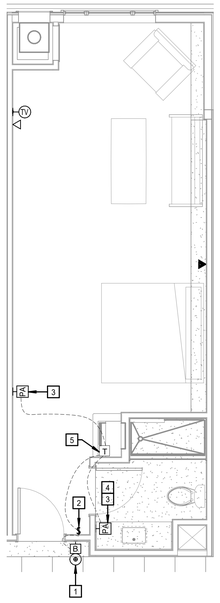
1 DOORBELL PUSHBUTTON (HEARING IMPAIRED AND ACCESSIBLE ROOMS ONLY).

2 DOORBELL DISABLE SWITCH (HEARING IMPAIRED AND ACCESSIBLE ROOMS ONLY). LOCATE ADJACENT TO OTHER SWITCH(ES) BUT IN SEPARATE J-BOX WITH SEPARATE COVERPLATE. LIGHT SWITCHES TO BE LABELED PER WHAT THEY CONTROL.

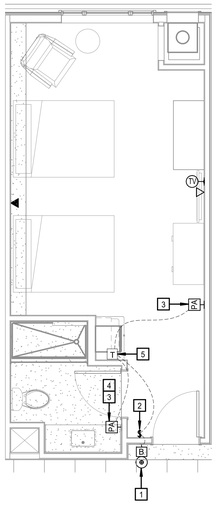
3 DOORBELL WITH AUDIBLE AND VISUAL ANNUNCIATION (HEARING IMPAIRED AND ACCESSIBLE ROOMS ONLY).

4 LOCATE DOORBELL DIRECTLY ABOVE LIGHT SWITCHES IN BATHROOMS.

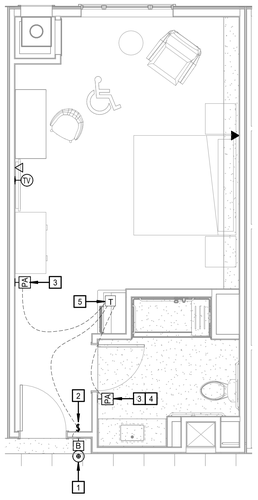
5 DOORBELL TRANSFORMER IN SOFFIT OR CABINET AND PROVIDE ACCESS. COORDINATE EXACT LOCATION WITH ARCHITECT. (HEARING IMPAIRED AND ACCESSIBLE ROOMS ONLY).



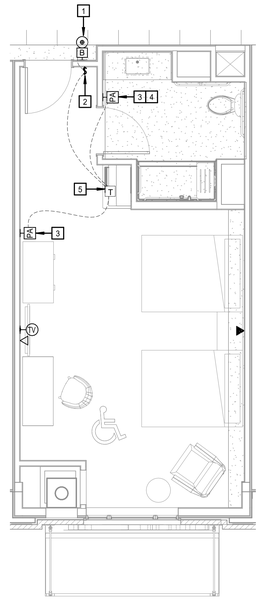

1 IT UNIT PLAN - KING SUITE
1/4" = 1'-0"



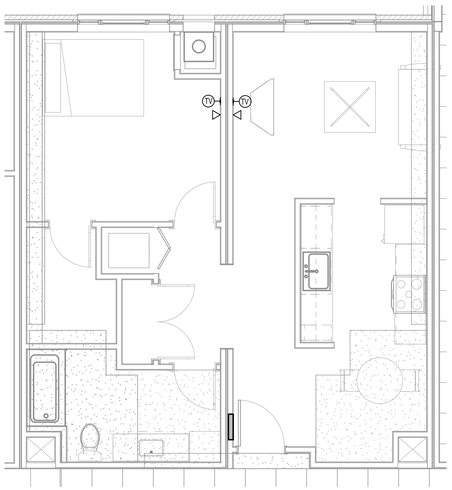

2 IT UNIT PLAN - DOUBLE QUEEN STANDARD
1/4" = 1'-0"



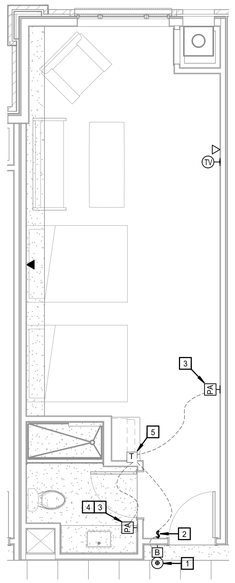

3 IT UNIT PLAN - KING ACCESSIBLE
1/4" = 1'-0"



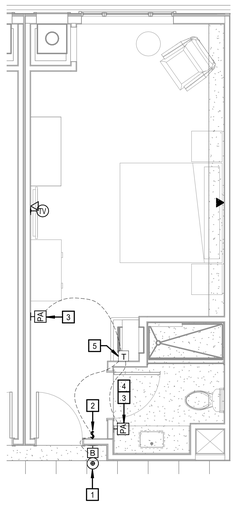

4 IT UNIT PLAN - DOUBLE QUEEN DELUXE ACCESSIBLE
1/4" = 1'-0"




5 IT UNIT PLAN - CARETAKER
1/4" = 1'-0"




6 IT UNIT PLAN - DOUBLE QUEEN SUITE
1/4" = 1'-0"




7 IT UNIT PLAN - KING STANDARD
1/4" = 1'-0"

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## UNITS IT PLANS

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SHEET NUMBER
LV103

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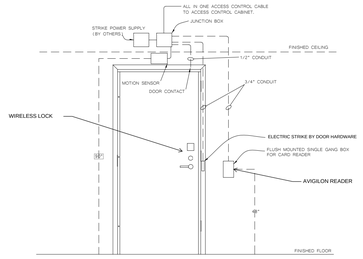
**DEVICE LEGEND**

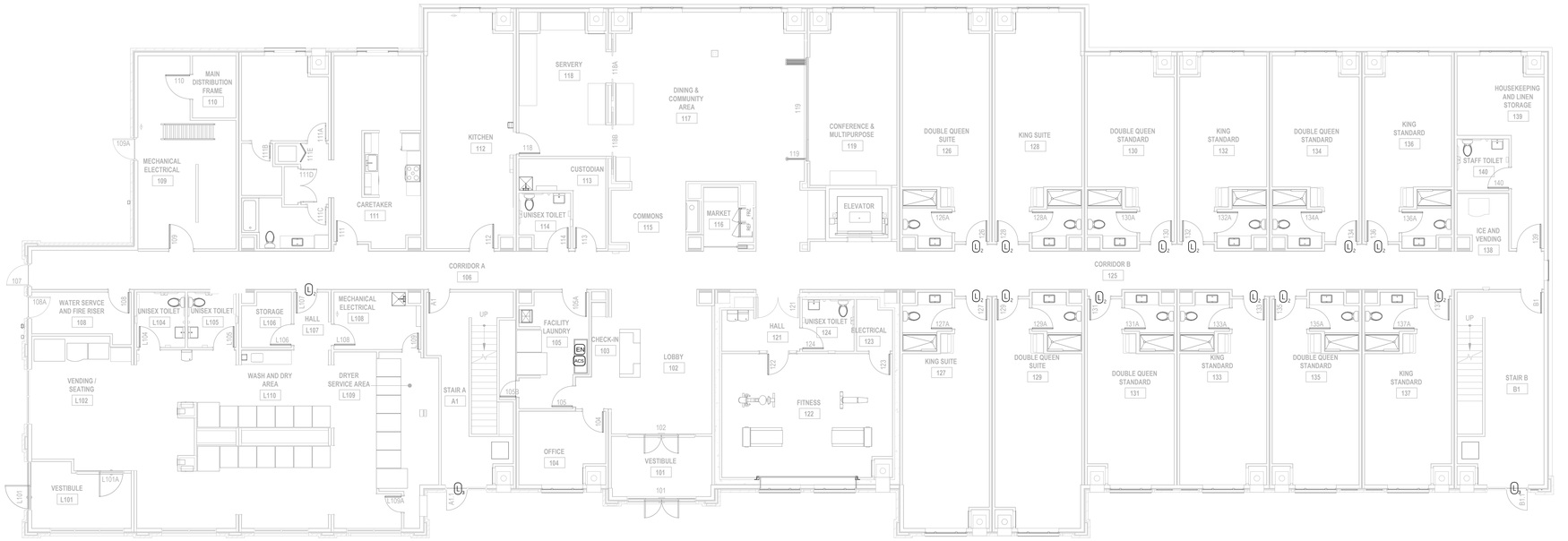
| SYMBOL | DESCRIPTION | MANUFACTURE | MODEL | BACKBOX | HEIGHT | RACEWAY | COMMENT |
|---|---|---|---|---|---|---|---|
| ACS | WIRELESS ACCESS CONTROL SYSTEM | SCHLAGE | ZENTRA | | DESK MOUNT | | PROVIDE PC, MONTIOR, KEYBOARD MOUSE AND SOFTWARE FOR WIRELESS ACCESS CONTROL SYSTEM. SEE SPECIFICATION 281500 |
| EN | CREDENTIAL ENCODER | SCHLAGE | VENTRA | | DESK MOUNT | | SEE SPECIFICATIONS 281500 |
| $L_2$ | WIRELESS INTEGRATED MORTICE LOCKSET | SCHLAGE | XE SERIES | | | | SEE DOOR HARDWARE SPECIFICATIONS AND SPECIFICATION 281500 |
| $L_3$ | WIRELESS INTEGRATED EXIT TRIM SET | SCHLAGE | XE SERIES | | | | SEE DOOR HARDWARE SPECIFICATIONS AND SPECIFICATION 281500 |




TYPICAL EXTERIOR DOOR FOR BOTH GUEST ACCESS AND MHA PERSONEL ACCESS

SECOND FLOOR PLAN

1/8" = 1'-0"




FIRST FLOOR PLAN

1/8" = 1'-0"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Mandan, Hidatsa and Arikara Nation
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307 5th Avenue
New Town, ND 58763

Owner

# Parshall Hotel and Laundromat

205 Main Street
Parshall, ND 58770

Jurisdictional Approval

Certification

REBID DOCUMENTS

Project Phase

| Revisions | | |
|---|---|---|
| No. | Date | Revision Description |
| | | |
| | 12/12/2025 | Modular Fabrication |
| | 01/06/2026 | Issued for Bid, BP2.0R |
| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| | 05/04/2026 | Issued for Re-Bid,BP2.0R1 |

## WIRELESS ACCESS CONTROL PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SEL
Checked by: ECC

SHEET NUMBER
AC1.00

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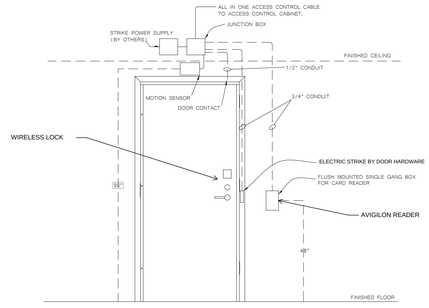
**DEVICE LEGEND**

| SYMBOL | DESCRIPTION | MANUFACTURE | MODEL | BACKBOX | HEIGHT | RACEWAY | COMMENT |
|---|---|---|---|---|---|---|---|
| ACP | ACCESS CONTROL PANEL | AVIGILON | | CUSTOM | | 1-1/4" CONDUIT TO CABLE TRAY | SURFACE MOUNT ENCLOSURE. 120VAC REQUIRED BY ELECTRICAL |
| NVR | NETWORK VIDEO RECORDER | AVIGILON | | RACK MOUNT | | 1-1/4" CONDUIT TO CABLE TRAY | MOUNT IN IT RACK |
| | CARD READER | HID | SIGNO | 1 GANG | 4'-0" AFF | 3/4" CONDUIT TO ACCESSIBLE CEILING | |
| | ELECTRONIC ELECTRONIC STRIKE | HESS | | | | 3/4" CONDUIT TO ACCESSIBLE CEILING | SEE DOOR HARDWARE SPECIFICATIONS |
| | RECESSED DOOR POSITION SWITCH | SENTROL | | N/A | | 3/4" CONDUIT TO ACCESSIBLE CEILING | SEE DOOR HARDWARE SPECIFICATIONS |
| 1 | CAMERA - CORNER MOUNTED | AVIGILON | 3.0C-H5A-CR1-IR | CUSTOM | CEILING | 3/4" CONDUIT TO ACCESSIBLE CEILING | |
| 2 | DOME CAMERA 4MP | AVIGILON | 4.0C-H5A-4MH | CUSTOM | CEILING | 3/4" CONDUIT TO ACCESSIBLE CEILING | |
| | QUAD VIEW CAMERA | AVIGILON | 32C-H5A-4MH | CUSTOM | CEILING | 3/4" CONDUIT TO ACCESSIBLE CEILING | |
| | QUAD VIEW CAMERA | AVIGILON | 20C-H5A-4MH | CORNER MOUNT | 14'-0" AFF | 3/4" CONDUIT TO ACCESSIBLE CEILING | PROVIDE PENDANT CORNER MOUNT |

## SHEET NOTES - VIDEO SURVEILLANCE

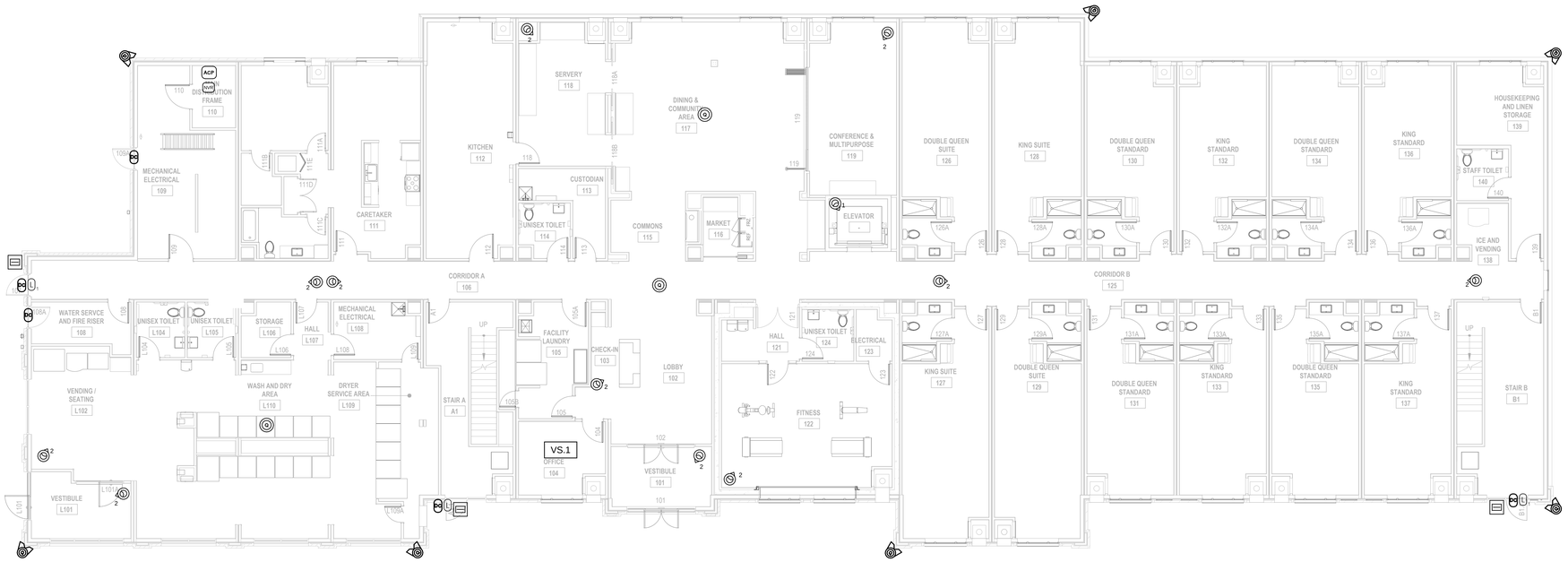
| | |
|---|---|
| VS.1 | PROVIDE (2) 32" MONITORS, MONITOR ARM MOUNTS, AND WORKSTATION FOR VIEWING OF CAMERAS. COORDINATE FINAL LOCATION OF MONITORS WITH OWNER PRIOR TO INSTALLATION. |




TYPICAL EXTERIOR DOOR FOR BOTH GUEST ACCESS AND MHA PERSONEL ACCESS

SECOND FLOOR PLAN

1/8" = 1'-0"




FIRST FLOOR PLAN

1/8" = 1'-0"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Owner

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Certification

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| 1 | 01/23/2026 | BP2.0R, ADD2.0 |
| | 05/04/2026 | Issued for Re-Bid,BP2.0R1 |

## SECURITY PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SEL
Checked by: ECC

**SHEET NUMBER**

SEC1.00

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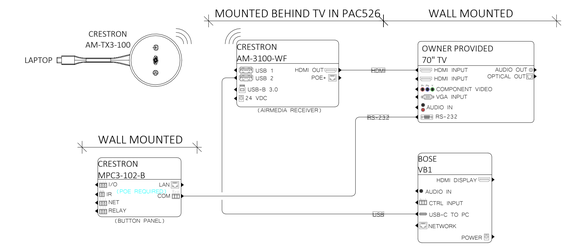
| DEVICE LEGEND | | | | | | | |
|---|---|---|---|---|---|---|---|
| SYMBOL | DESCRIPTION | MANUFACTURE | MODEL | BACKBOX | HEIGHT | RACEWAY | COMMENT |
| TV | TV-65" | Samsung | QB65R | PAC525 | 60" AFF | 3/4" Conduit to Accessible Ceiling | Furnish with TS525TU articulating mount |
| SB | Video Sound Bar | Bose | VB1 | 1 Gang Horizontal | 42" AFF | 3/4" Conduit to Accessible Ceiling | |

| SHEET NOTES | |
|---|---|
| AV.1 | FURNISH CRESTRON AIR MEDIA (OR EQUIVALENT) SYSTEM AS SHOWN IN DETAIL |






TYPICAL CONFERENCE ROOM ONE-LINE DIAGRAM

FIRST FLOOR PLAN

1/8" = 1'-0"

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| | 05/04/2026 | Issued for Re-Bid,BP2.0R1 |

AUDIO-VIDEO PLAN

Project No.: 22.1010
Date: 05/04/2026
Drawn by: SEL
Checked by: ECC

SHEET NUMBER
AV1.00

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