



FACILITIES MANAGEMENT

HON. EDWIN J. DAY
COUNTY EXECUTIVE

ROBERT H. GRUFFI, P.E. LEED AP
DIRECTOR, FACILITIES MANAGEMENT

CAPITAL PROJECT 2098 HEALTH CENTER BUILDING IMPROVEMENTS BUILDING A DOMESTIC WATER BOOSTER PUMP REPLACEMENT

50 SANATORIUM ROAD
POMONA, NY 10970

DRAWING INDEX	
DWG#	DRAWING TITLE
COVER	
T0.1	COVER SHEET
PLUMBING	
P0.1	PLUMBING ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
P1.2	PLUMBING DEMOLITION AND NEW WORK PLANS
P7.1	PLUMBING DETAILS
ELECTRICAL	
E0.1	ELECTRICAL ABBREVIATIONS, SYMBOLS AND NOTES
E1.1	ELECTRICAL DEMOLITION PLAN
E1.2	ELECTRICAL NEW WORK PLAN
E7.1	ELECTRICAL DETAILS
TOTAL: 8	

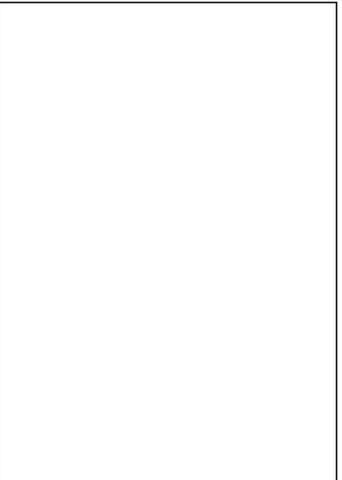


OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 900
New York, NY 10017
646.849.4110
olace.com

CLIENT



Rockland County
Facilities Management
Robert H. Gruffi, P.E., LEED AP
Director Facilities Management
Rockland County Courthouse
1 South Main Street
New City, NY 10956



NO.	DESCRIPTION	DATE
2	ISSUED FOR BID	9/9/24
1	ISSUED FOR 100% REVIEW	5/15/24

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of OLA Consulting Engineers, PC. Copyright © 2015

PROJECT

CAPITAL PROJECT 2098 HEALTH CENTER BUILDING IMPROVEMENTS BUILDING A DOMESTIC WATER BOOSTER PUMP REPLACEMENT

50 SANATORIUM ROAD
POMONA, NY 10970

DRAWING TITLE

COVER SHEET

SEAL	SCALE AS NOTED	PROJECT NO. RCK0019.00
	DRAWN BY JC	DRAWING NO.
	CHECKED BY RS	T0.1
	DATE 2024.04.05	

DOMESTIC WATER BOOSTER PUMP NOTES

FURNISH AND INSTALL A MODEL **TM-300-48-3VS** TRIPLEX VARIABLE SPEED, VARIABLE FLOW FACTORY ASSEMBLED WATER BOOSTER SYSTEM AS MANUFACTURED BY CANARIS, LLC, RIVERVIEW, FLORIDA AND SUPPLIED BY CULLEN COMPANY LLC (732-988-9600). THE UNIT SHALL BE RATED FOR A SYSTEM CAPACITY OF **300 GPM**, WITH A SYSTEM PRESSURE OF **78 PSIG**, INCLUDING A MINIMUM SUCTION PRESSURE OF **35 PSIG**. MAXIMUM SUCTION PRESSURE WILL BE **50 PSIG**.

THE COMPLETE PACKAGED PUMPING SYSTEM, INCLUDING PUMPS, MOTORS, CONTROL EQUIPMENT, VARIABLE FREQUENCY DRIVES, TANK, VALVES, FITTINGS AND MANIFOLDS MUST BE UL LISTED UNDER CATEGORY QCZJ (PACKAGED PUMPING SYSTEMS). IN ADDITION TO THE UL LISTING FOR THE COMPLETE SYSTEM THE CONTROL PANEL ASSEMBLY MUST BE SEPARATELY LISTED UNDER UL 508A (INDUSTRIAL CONTROL PANELS). ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH ASME SECTION IX.

FACTORY ASSEMBLY
THE BOOSTER SYSTEM SHALL BE FACTORY ASSEMBLED ON A STEEL SKID INCLUDING PUMPS, MOTORS, VALVES, 4" SCH10 300 SERIES STAINLESS STEEL SUCTION AND DISCHARGE MANIFOLDS, AND ALL INTERCONNECTING PIPING, WIRING AND CONTROLS. MANIFOLD CONNECTIONS WILL BE FLANGED AT ONE END. BRANCH PIPING AND TANK PIPING (IF APPLICABLE) SHALL BE THE SAME MATERIAL AS THE SUCTION AND DISCHARGE MANIFOLDS. PROVIDE ISOLATION VALVES ON THE SUCTION AND DISCHARGE OF EACH PUMP. THE VALVES SHALL BE FULL-PORT BALL VALVES. PROVIDE A THERMAL PURGE VALVE ON THE DISCHARGE OF EACH PUMP. PROVIDE TWO 4 1/2" ASME GRADE A, PANEL MOUNTED GAUGES FOR INDICATING SYSTEM SUCTION AND SYSTEM DISCHARGE PRESSURE. ALL SKID MOUNTED COMPONENTS SHALL BE FACTORY FINISHED IN A HIGH QUALITY ENAMEL PAINT.

INDIVIDUAL PUMPS, MOTORS AND PRESSURE REGULATING OR CHECK VALVES MAY BE SERVICED WITH THE BOOSTER SYSTEM IN OPERATION AND ALL COMPONENTS SHALL BE SUITABLE FOR THE MAXIMUM WORKING PRESSURE AND TEMPERATURE IN THE SYSTEM.

PUMPS
SYSTEM SHALL INCLUDE THREE MULTI-STAGE VERTICAL CENTRIFUGAL PUMPS WITH ANSI FLANGED CONNECTIONS. THE PUMP SUCTION/DISCHARGE CHAMBER, MOTOR STOOL AND PUMP SHAFT COUPLING SHALL BE CONSTRUCTED OF CAST IRON. THE IMPELLERS, PUMP SHAFT, DIFFUSER CHAMBERS, OUTER DISCHARGE SLEEVE AND IMPELLER SEAL RINGS OR SEAL RING RETAINERS SHALL BE CONSTRUCTED OF STAINLESS STEEL. INTERMEDIATE AND LOWER SHAFT BEARINGS SHALL BE BRONZE OR TUNGSTEN CARBIDE AND CERAMIC. PUMPS SHALL BE EQUIPPED WITH A MECHANICAL SEAL ASSEMBLY WITH TUNGSTEN CARBIDE SEAL FACES MOUNTED IN STAINLESS STEEL SEAL COMPONENTS. THE PUMP MOTOR SHALL BE NEMA C FACE DESIGN MOUNTED DIRECTLY TO THE TOP OF THE PUMP.

PUMP NO. 1, PUMP NO. 2 AND PUMP NO. 3 SHALL BE RATED **100 GPM AT 110 FT. HEAD**.

MOTORS
MOTORS SHALL BE VOLT, 3 PHASE, 60 HZ OPEN DRIP PROOF AND MANUFACTURED IN ACCORDANCE WITH NEMA STANDARDS. PUMP NO. 1, PUMP NO. 2 AND PUMP NO. 3 SHALL BE 5 HP, 3500 RPM. MOTORS SHALL BE SELECTED SO THAT THEY DO NOT EXCEED NAMEPLATE HP RATING THROUGHOUT THE PROGRAMMED SEQUENCE OF PUMP OPERATION.

SYSTEM VALVES
EACH PUMP DISCHARGE SHALL HAVE A WAFER STYLE SILENT NON-SLAM CHECK VALVE WITH CAST IRON BODY AND SIZED FOR A MAXIMUM LOSS OF 3 PSI AT DESIGN FLOW AND BE SUITABLE FOR THE MAXIMUM WORKING PRESSURE OF THE SYSTEM.

HYDRO-PNEUMATIC TANK
PROVIDE A HYDRO-PNEUMATIC TANK WITH A CARBON STEEL SHELL AND A REPLACEABLE F.D.A. APPROVED HEAVY DUTY BLADDER TO SEPARATE THE AIR AND WATER. NO WATER SHALL COME IN CONTACT WITH THE METAL WALLS OF THE TANK. FEATURES SHALL INCLUDE AN AIR FILL VALVE AND BOTTOM SYSTEM CONNECTION SUITABLE FOR 100% DRAWDOWN. THE TANK MUST BE CONSTRUCTED IN ACCORDANCE WITH SECTION VIII OF THE ASME CODE AND BE N.B. STAMPED AND SHALL BE RATED (79 GALLON - 125 PSIG). THE TANK SHALL BE MOUNTED IN A LOCATION AS SHOWN ON THE DRAWINGS, WHERE THE SYSTEM PRESSURE DOES NOT EXCEED THE TANK PRESSURE RATING.

VARIABLE FREQUENCY DRIVES PROVIDE AND MOUNT ON THE SYSTEM SKID THREE VARIABLE FREQUENCY DRIVES OF THE PWM DESIGN SUITABLE FOR VARIABLE TORQUE APPLICATIONS USING ANY STANDARD NEMA DESIGN B SQUIRREL CAGE INDUCTION MOTOR. VARIABLE FREQUENCY DRIVES SHALL BE SIZED FOR THE MAXIMUM POSSIBLE AMP DRAW THROUGHOUT THE PROGRAMMED SEQUENCE OF PUMP OPERATION.

STANDARD FEATURES
PULSE WIDTH MODULATED
STARTS INTO A ROTATING LOAD
KEYPAD OPERATOR DEVICE INCLUDING THE FOLLOWING:
2 LINE BACKLIT LCD DISPLAY
POWER ON AND ALARM/FAULT DISPLAYS
IN AUTO THE DRIVE FOLLOWS SIGNAL FROM LOGIC SECTION OF CONTROL PANEL
HAND/OFF/AUTO SWITCH AND MANUAL SPEED ADJUSTMENT
AUTO DRIVE SHUTDOWN FOR ELECTRICAL FAULT
AUTOMATIC RESTART AFTER POWER FAILS SHUTDOWN
OPERATIONAL DATA DISPLAYS INCLUDE: DRIVE SPEED (HZ), MOTOR POWER, ENERGY (KWH), CURRENT, ELAPSED TIME, RPM, AND MOTOR VOLTAGE
COMPLETE SERVICE DIAGNOSTICS WITH FAULT HISTORY LOG.

THE EFFICIENCY AT FULL LOAD AND FULL SPEED WILL BE 97% WITH A FUNDAMENTAL POWER FACTOR OF .98.

PRESSURE SENSOR/TRANSMITTER
PROVIDE ONE PRESSURE SENSOR/TRANSMITTER THAT PROVIDES A 4 TO 20 MA DC OUTPUT, COMPATIBLE WITH THE SYSTEM CONTROLS. TEMPERATURE AND PRESSURE REQUIREMENTS. PRESSURE SENSOR/TRANSMITTER SHALL HAVE ZERO, SPAN AND DAMPING DEVICES. THE TRANSMITTER SHALL BE INSTALLED ON THE SYSTEM DISCHARGE HEADER AND FACTORY WIRED TO THE CONTROL PANEL.

SEQUENCE OF OPERATION
THE LEAD PUMP SHALL RUN ONLY AS NECESSARY TO MAINTAIN SYSTEM PRESSURE AND WILL BE CONTROLLED AUTOMATICALLY BY MEANS OF A PRESSURE SENSOR/TRANSMITTER AND PROGRAMMABLE LOGIC CONTROLLER (PLC) PROGRAMMED TO PREVENT SHORT CYCLING. IF THE LEAD PUMP IS UNABLE TO MAINTAIN SYSTEM PRESSURE THE LAG PUMP(S) WILL BE CALLED ON AFTER A TIME DELAY AND WILL OPERATE IN PARALLEL WITH THE LEAD PUMP IN ACCORDANCE WITH THE PLC PROGRAM. WHEN ONE PUMP CAN HANDLE THE SYSTEM DEMAND THE CONTROLS WILL SHUT DOWN THE LAG PUMP(S). WHEN A LOW OR NO FLOW CONDITION IS REACHED, THE CONTROLS WILL ACCELERATE THE LEAD PUMP TO CHARGE THE SYSTEM AND HYDRO-PNEUMATIC TANK THEN SHUT THE LEAD PUMP DOWN AND ALTERNATE.

CONTROL PANEL LOGIC SECTION
PROVIDE, MOUNT AND WIRE ON THE SKID A PROGRAMMABLE LOGIC CONTROLLER IN AN ENCLOSURE TO INTERFACE THE SIGNAL FROM THE PRESSURE SENSOR TO THE VFD'S AND PROVIDE A STABILIZED RESPONSE TO SPEED UP OR SLOW DOWN THE PUMP OR ADD THE LAG PUMP(S) TO MEET SYSTEM REQUIREMENTS. THE CONTROLLER SHALL PROVIDE SETPOINT ADJUSTMENT, TIMER ADJUSTMENT, PID FUNCTIONS AND BOTH SYSTEM AND CONTROLLER SELF DIAGNOSTICS VIA A 5.7" STN TOUCHSCREEN DISPLAY. ALL USER INTERFACE SETPOINTS ARE EASILY ACCESSIBLE VIA THE PASSWORD PROTECTED DISPLAY SCREEN. NORMAL SYSTEM OPERATION IS TUNED TO ELIMINATE HUNTING. CONTROLLER SHALL HAVE ONE RS 485 COMMUNICATION PORT, REAL TIME CALENDAR/CLOCK AND EEPROM MEMORY TRANSFER CARTRIDGE.

POWER SECTION
EACH SYSTEM SHALL INCLUDE A UL LISTED ENCLOSED INDUSTRIAL CONTROL PANEL IN A NEMA 1 ENCLOSURE, FACTORY MOUNTED AND WIRED ON THE STEEL SKID. THE PANEL SHALL BE FURNISHED WITH INDIVIDUAL PUMP DISCONNECTS WITH THROUGH THE DOOR HANDLES, PUMP RUN LIGHTS, H-O-A SELECTOR SWITCHES AND 115 VOLT FUSED CONTROL TRANSFORMER.

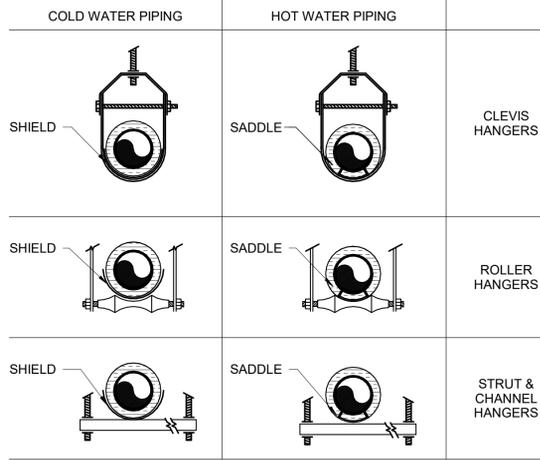
STANDARD CONTROL PANEL FEATURES
- UL LISTED ENCLOSED INDUSTRIAL CONTROL PANEL
- INDIVIDUAL FUSED DISCONNECTS WITH EXTERNAL HANDLE
- PROGRAMMABLE LOGIC CONTROLLER (PLC)
- PUMP RUNNING LIGHTS
- H/O/A SELECTOR SWITCHES
- 115 VOLT FUSED CONTROL CIRCUIT TRANSFORMER
- PUMP MINIMUM RUN TIMERS
- MOUNTED AND WIRED ON SKID
- PUMP OPERATING AND SEQUENCE CONTROLS

CONTROL PANEL OPTIONS
- CONTROL POWER (ON-OFF) SWITCH AND LIGHT
- LOW SUCTION PRESSURE SHUTDOWN CIRCUIT WITH AUTO RESET, DELAY TIMER AND LIGHT
- LOW SYSTEM PRESSURE CIRCUIT TO START STANDBY PUMP(S) WITH MANUAL RESET AND LIGHT
- HIGH SYSTEM PRESSURE SHUTDOWN CIRCUIT WITH MANUAL RESET AND LIGHT
- AUDIBLE ALARM WITH SILENCE PUSH BUTTON
- AUTO ALTERNATE (3) EQUAL PUMPS
- AUXILIARY RELAY CONTACTS

FACTORY TEST
THE BOOSTER SYSTEM SHALL BE HYDROSTATICALLY TESTED AND SHALL UNDERGO A COMPLETE ELECTRIC AND HYDRAULIC TEST FROM 0 TO 100% DESIGN FLOW AT THE FACTORY. ALL CONTROL DEVICES INCLUDING TRANSMITTERS AND ALL SAFETY FEATURES SHALL BE FACTORY CALIBRATED AND TESTED. THE OWNER'S REPRESENTATIVE MAY WITNESS THE TEST.

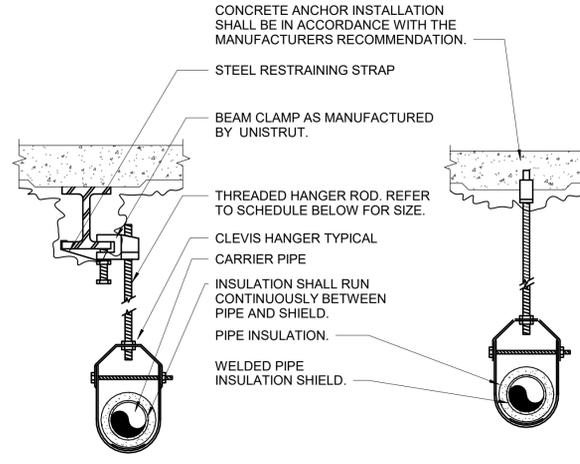
WARRANTY
THE BOOSTER SYSTEM SHALL BE WARRANTED IN WRITING AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP UNDER NORMAL USE AND SERVICE FOR A PERIOD OF ONE YEAR AFTER DATE OF ORIGINAL OPERATION BUT NOT MORE THAN 18 MONTHS FROM DATE OF SHIPMENT FROM THE COMPANY'S FACTORY WHEN INSTALLED AND USED IN ACCORDANCE WITH GOOD STANDARD PRACTICE.

START-UP SERVICE
THE SERVICE OF A FACTORY-TRAINED REPRESENTATIVE SHALL BE MADE AVAILABLE ON THE JOBSITE FOR START-UP AND INSTRUCTING OPERATING PERSONNEL.



NOTES:
1. INSULATION ON ALL COLD SURFACES SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL. HANGERS, SUPPORTS, ANCHORS, ETC., THAT ARE SECURED DIRECTLY TO COLD SURFACES SHALL BE ADEQUATELY INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION.
2. GALVANIZED METAL SHIELDS SHALL BE APPLIED BETWEEN HANGERS OR SUPPORTS AND THE PIPE INSULATION AS SHOWN ABOVE. SHIELDS SHALL BE FORMED TO FIT THE INSULATION AND SHALL EXTEND UP TO THE CENTERLINE OF THE PIPE.
3. RIGID INSULATION INSERTS SHALL BE INSTALLED ON PIPE SIZES 1-1/2" OR LARGER AS SHOWN ABOVE. INSERTS SHALL BE OF EQUAL THICKNESS TO THE ADJOINING INSULATION AND SHALL BE PROVIDED WITH VAPOR RETARDER SEALS.

3 PIPE INSULATION SADDLE/SHIELD SCHEDULE
SCALE: NONE

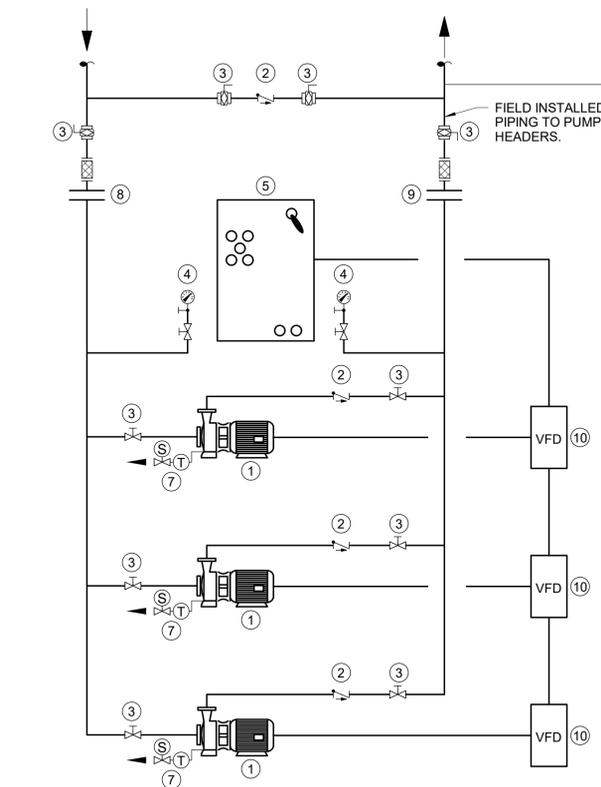


PIPE HANGER SCHEDULE

PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2. FOR PIPE 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED FOR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
7. COPPER PIPE AND TUBE SHALL BE SUPPORTED EVERY 8 FEET HORIZONTALLY AND 10 FEET VERTICALLY.

2 PIPE HANGER DETAIL
SCALE: NONE



NOTES:
1. PROVIDE SPRING TYPE VIBRATION ISOLATORS FOR ALL PIPE HANGERS A DISTANCE OF 50 PIPE DIAMETERS FROM BOOSTER PUMP SKID. MINIMUM STATIC DEFLECTION SHALL BE 1".
2. DOMESTIC WATER BOOSTER PUMP SKID SHALL BE MOUNTED ON 6" HIGH CONCRETE HOUSEKEEPING PAD WHICH SHALL EXTEND A MINIMUM OF 6" BEYOND ALL PORTIONS OF THE PUMP SKID.

LEGEND
1. PUMP AND MOTOR
2. CHECK VALVE
3. ISOLATION VALVES
4. PRESSURE GAUGES (MOUNTED ON CONTROL PANEL)
5. CONTROL PANEL
6. HYDRO-PNEUMATIC TANK
7. TEMPERATURE PROBE AND PURGE VALVE
8. SUCTION MANIFOLD
9. DISCHARGE MANIFOLD
10. VARIABLE FREQUENCY DRIVE
11. PRESSURE RELIEF VALVE
12. COUPLING

1 TRIPLEX DOMESTIC WATER BOOSTER PUMP SYSTEM
SCALE: NONE

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 900
New York, NY 10017
646.849.4110
olace.com

Rockland County
Facilities Management
Robert H. Gruffi, P.E., LEED AP
Director Facilities Management
Rockland County Courthouse
1 South Main Street
New City, NY 10956

NO.	DESCRIPTION	DATE
2	ISSUED FOR BID	9/9/24
1	ISSUED FOR 100% REVIEW	5/15/24

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of OLA Consulting Engineers, PC. Copyright © 2015.

PROJECT
CAPITAL PROJECT 2098 HEALTH CENTER
BUILDING IMPROVEMENTS BUILDING A
DOMESTIC WATER BOOSTER PUMP
REPLACEMENT
50 SANATORIUM ROAD
POMONA, NY 10970

DRAWING TITLE
PLUMBING DETAILS

SCALE	AS NOTED	PROJECT NO.
DRAWN BY	JC	RCK0019.00
CHECKED BY	RS	DRAWING NO.
DATE	04/23/24	P7.1

SYMBOLS AND ABBREVIATIONS

Table with 6 columns: SYMBOL, ABBREVIATION, DESCRIPTION, SYMBOL, ABBREVIATION, DESCRIPTION. Lists various electrical symbols and their corresponding abbreviations and descriptions.

NOTES:
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND



NOTES:
1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE...

DEFINITION OF TERMS

- 1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "ROCKLAND COUNTY" IS INTENDED.
2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
3. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS...

GENERAL NOTES

- 1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX).
2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING OF WORK AND COORDINATE NEW WORK.

DEMOLITION NOTES

- 1. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX).
2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN...

OLA Consulting Engineers
50 Broadway, Hawthorne, NY 10532
914.747.2800
8 West 38th Street, Suite 900
New York, NY 10017
646.849.4110
olace.com

CLIENT
Rockland County
Facilities Management
Robert H. Gruffi, P.E., LEED AP
Director Facilities Management
Rockland County Courthouse
1 South Main Street
New City, NY 10956

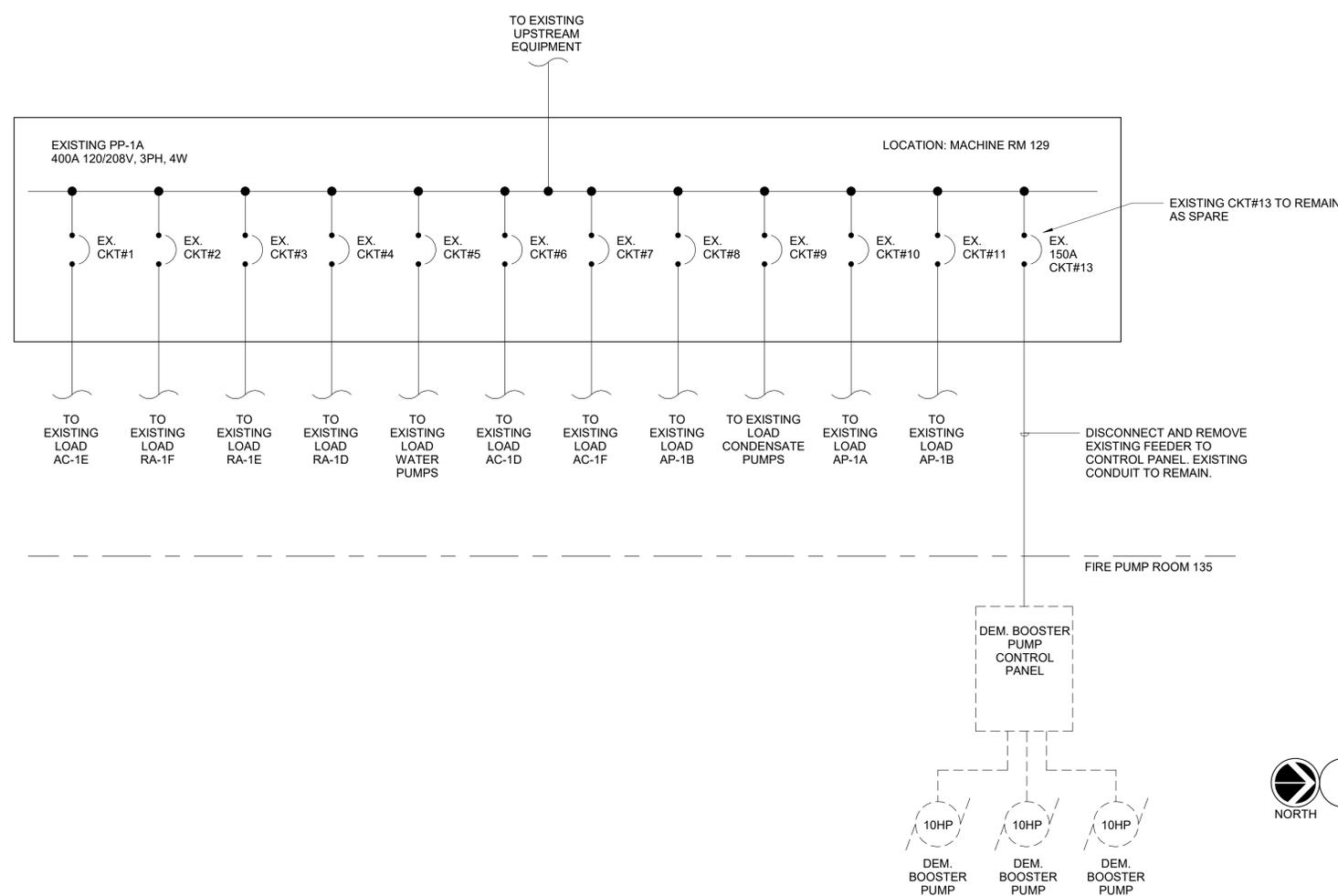
Table with 3 columns: NO., DESCRIPTION, DATE. Contains revision entries for 'ISSUED FOR BID' and 'ISSUED FOR 100% REVIEW'.

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of OLA Consulting Engineers, PC. Copyright © 2015

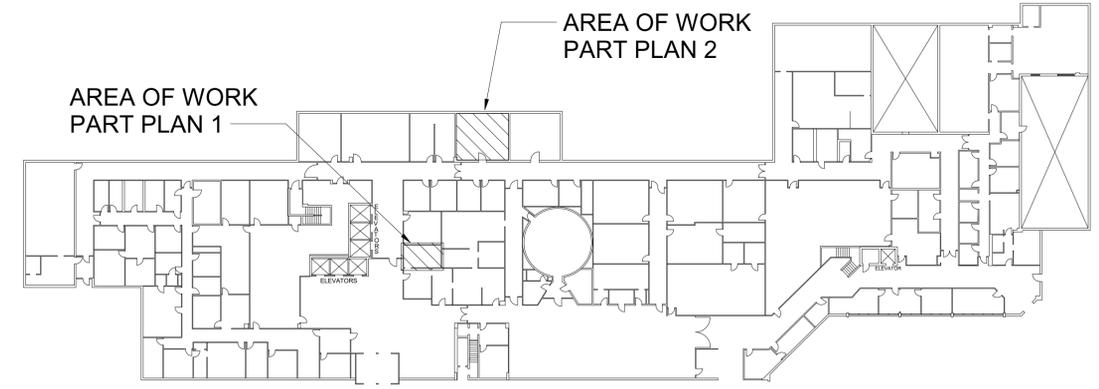
PROJECT
CAPITAL PROJECT 2098 HEALTH CENTER
BUILDING IMPROVEMENTS BUILDING A
DOMESTIC WATER BOOSTER PUMP
REPLACEMENT
50 SANATORIUM ROAD
POMONA, NY 10970

DRAWING TITLE
ELECTRICAL
ABBREVIATIONS, SYMBOLS
AND NOTES

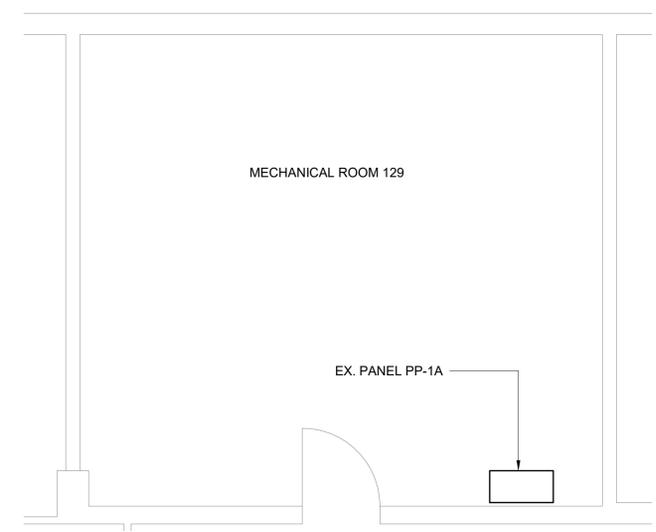
Table with 3 columns: SCALE AS NOTED, PROJECT NO. RCK0019.00, DRAWING NO., CHECKED BY RS, DATE 04/23/24, and E0.1.



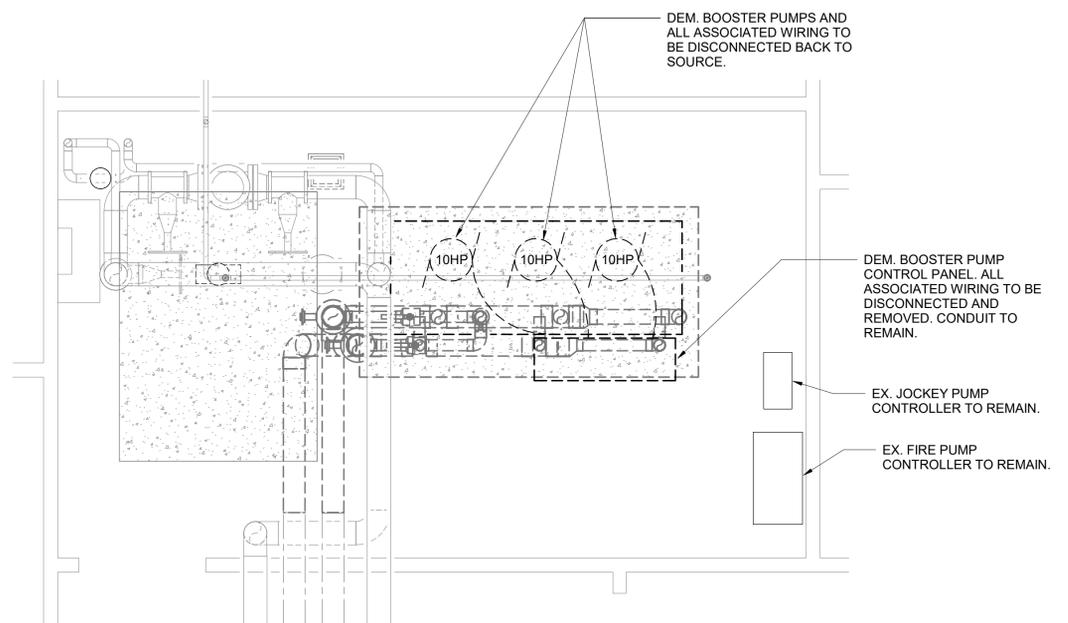
4 PP-1 SINGLE LINE DEMOLITION
 SCALE: NONE



3 LEVEL 01 KEY PLAN
 SCALE: 1" = 40'-0"



2 LEVEL 01 EXISTING ELECTRICAL PLAN MACHINE ROOM-129
 SCALE: 1/4" = 1'-0" NOTE: NOT ALL EXISTING EQUIPMENT IS SHOWN IN THE ROOM.



1 LEVEL 01 EXISTING ELECTRICAL PLAN FIRE PUMP ROOM 135
 SCALE: 1/2" = 1'-0"

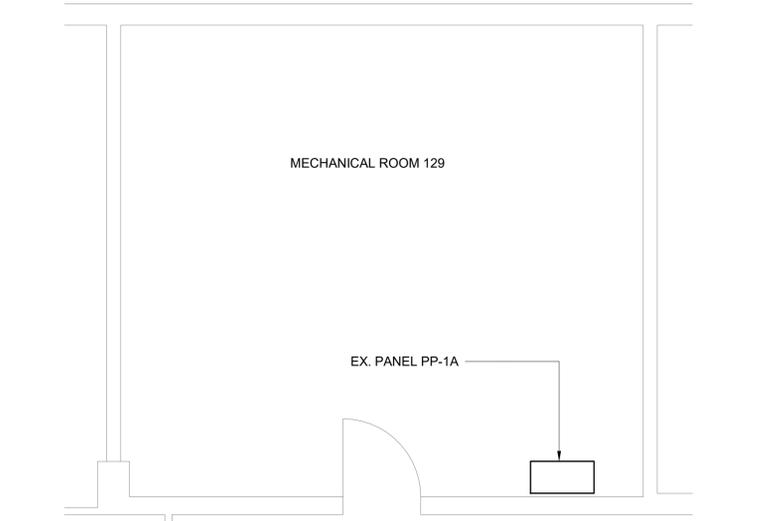
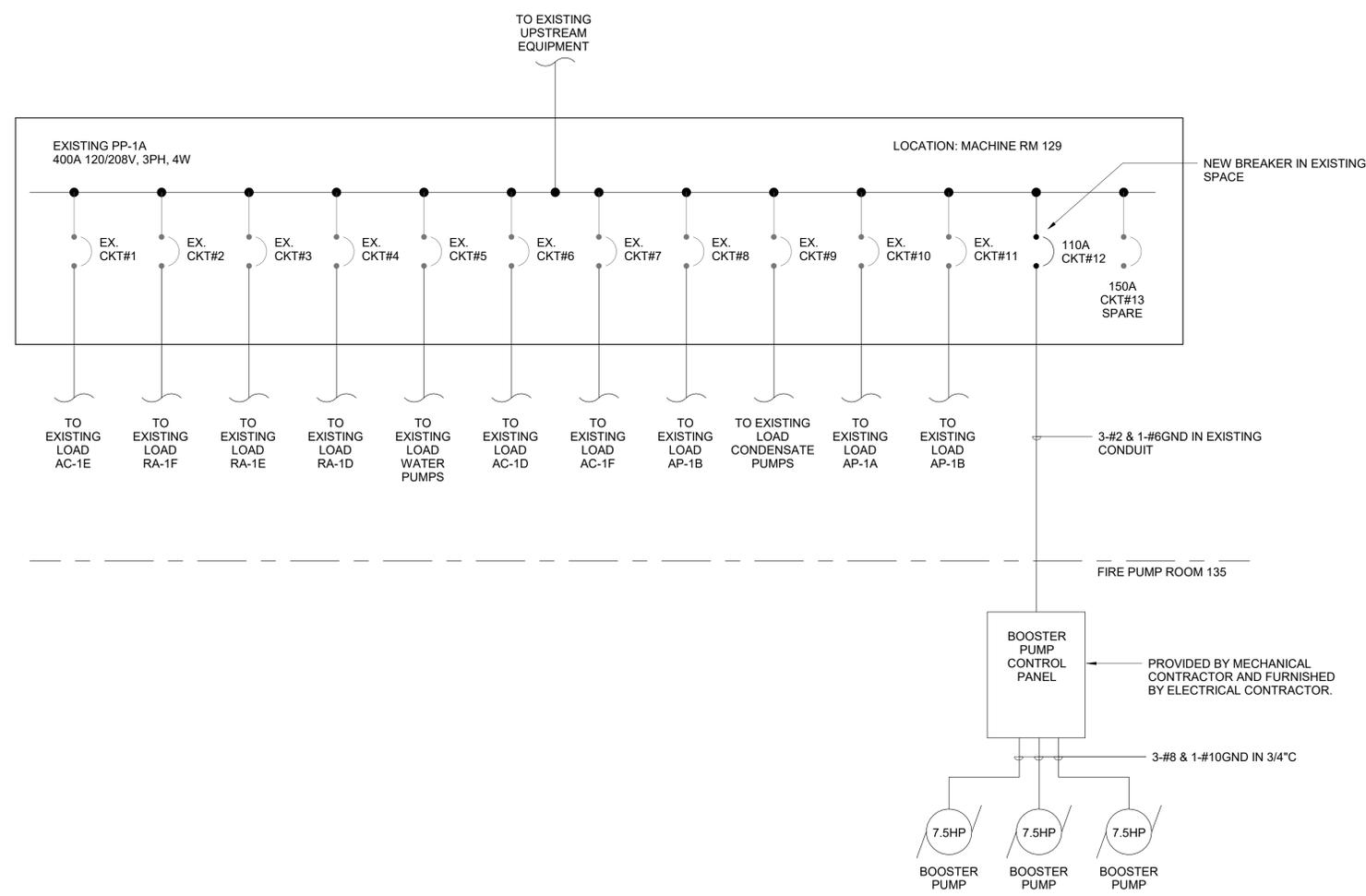
NO.	DESCRIPTION	DATE
2	ISSUED FOR BID	9/9/24
1	ISSUED FOR 100% REVIEW	5/15/24

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of OLA Consulting Engineers, PC. Copyright © 2015

PROJECT
 CAPITAL PROJECT 2098 HEALTH CENTER
 BUILDING IMPROVEMENTS BUILDING A
 DOMESTIC WATER BOOSTER PUMP
 REPLACEMENT
 50 SANATORIUM ROAD
 POMONA, NY 10970

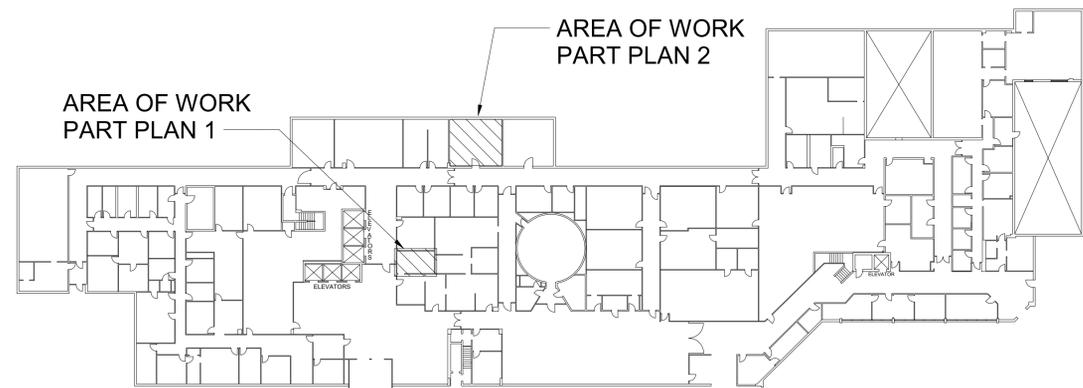
DRAWING TITLE
**ELECTRICAL DEMOLITION
 PLAN**

SEAL	SCALE AS NOTED	PROJECT NO. RCK0019.00
	DRAWN BY GD	DRAWING NO.
	CHECKED BY RS	E1.1
	DATE 04/23/24	

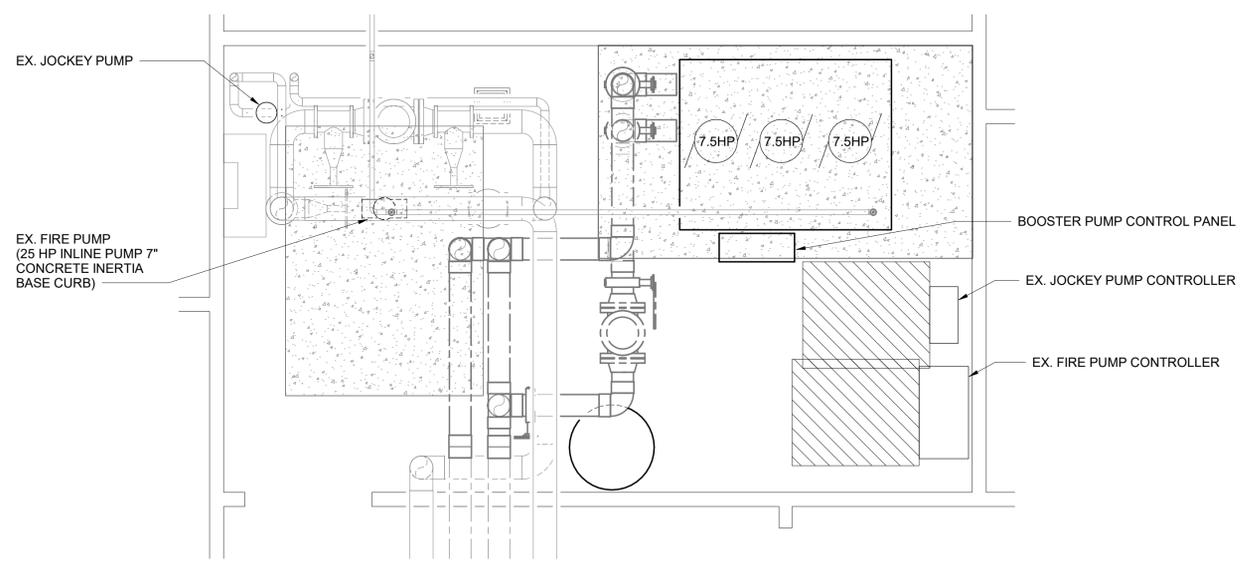


2 LEVEL 01 EXISTING ELECTRICAL PLAN MACHINE ROOM 129
 SCALE: 1/4" = 1'-0" NOTE: NOT ALL EXISTING EQUIPMENT IS SHOWN IN THE ROOM.

4 PP-1 SINGLE LINE NEW WORK
 SCALE: NONE



3 LEVEL 01 KEY PLAN
 SCALE: 1" = 40'-0"



1 LEVEL 01 ELECTRICAL PLAN NEW WORK
 SCALE: 1/2" = 1'-0"

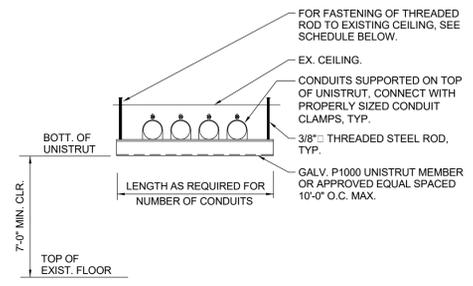
NO.	DESCRIPTION	DATE
2	ISSUED FOR BID	9/9/24
1	ISSUED FOR 100% REVIEW	5/15/24

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of OLA Consulting Engineers, PC. Copyright © 2015

PROJECT
 CAPITAL PROJECT 2098 HEALTH CENTER
 BUILDING IMPROVEMENTS BUILDING A
 DOMESTIC WATER BOOSTER PUMP
 REPLACEMENT
 50 SANATORIUM ROAD
 POMONA, NY 10970

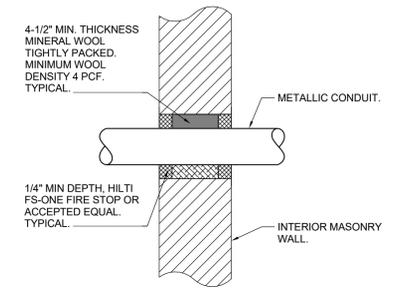
DRAWING TITLE
**ELECTRICAL NEW WORK
 PLAN**

SCALE AS NOTED	PROJECT NO. RCK0019.00
DRAWN BY GD	DRAWING NO.
CHECKED BY JF	E1.2
DATE 04/23/24	

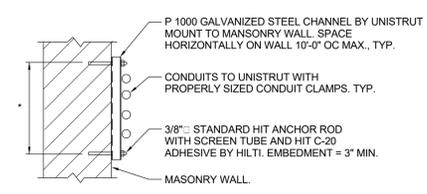


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

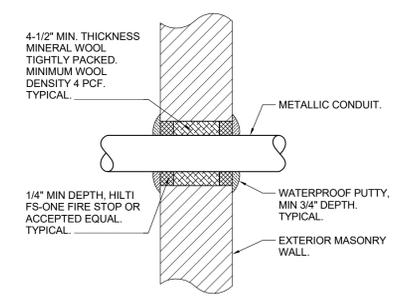
7 TRAPESE SUPPORT DETAIL
 SCALE: NONE



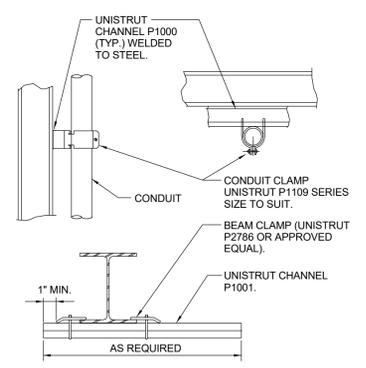
3 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
 SCALE: NONE



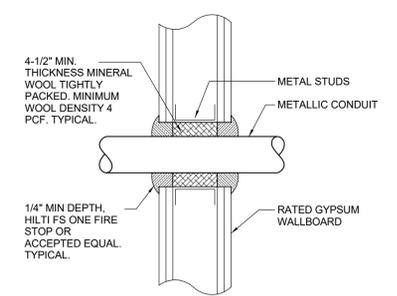
6 TYPICAL CONDUIT SUPPORT ON MASONRY DETAIL
 SCALE: NONE



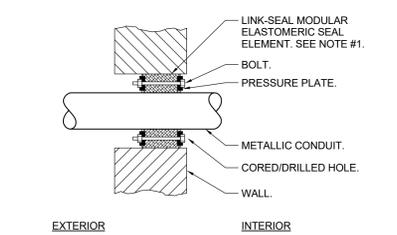
2 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
 SCALE: NONE



9 STRUCTURAL STEEL CONDUIT SUPPORTED FROM
 SCALE: NONE

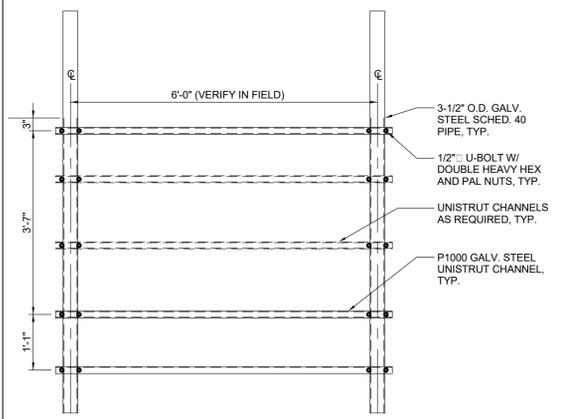


4 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
 SCALE: NONE

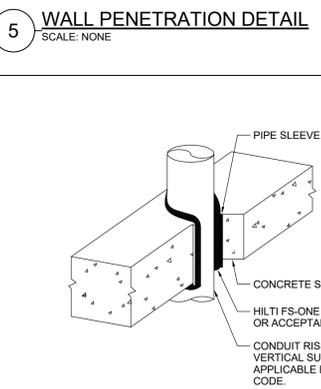


NOTES:
 1. SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
 2. PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
 3. PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

1 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
 SCALE: NONE



8 EQUIPMENT SUPPORT FRAME DETAIL
 SCALE: NONE
 NOTE:
 1.) DESIGN TYPICAL FOR MOUNTING ALL WALL MOUNTED POWER EQUIPMENT.



5 WALL PENETRATION DETAIL
 SCALE: NONE

NO.	DESCRIPTION	DATE
2	ISSUED FOR BID	9/9/24
1	ISSUED FOR 100% REVIEW	5/15/24

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of OLA Consulting Engineers, PC. Copyright © 2015

PROJECT
 CAPITAL PROJECT 2098 HEALTH CENTER BUILDING IMPROVEMENTS BUILDING A DOMESTIC WATER BOOSTER PUMP REPLACEMENT
 50 SANATORIUM ROAD
 POMONA, NY 10970

DRAWING TITLE
ELECTRICAL DETAILS

SCALE	SCALE AS NOTED	PROJECT NO.
	AS NOTED	RCK0019.00
	DRAWN BY GD	DRAWING NO.
	CHECKED BY RS	E7.1
	DATE 04/23/24	