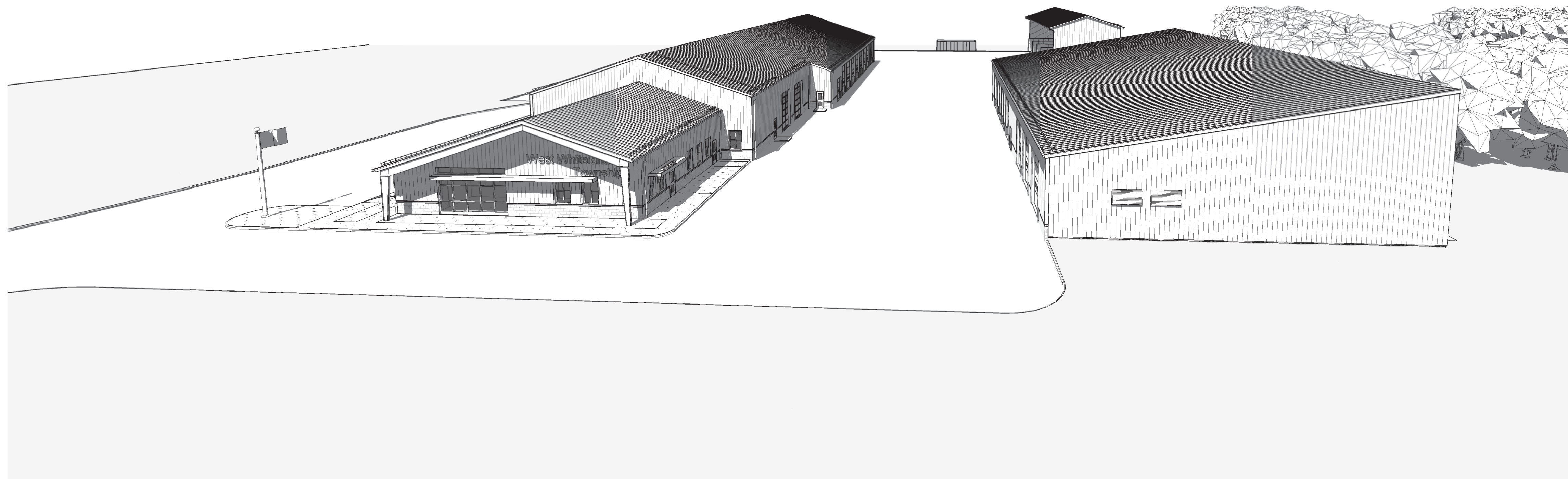


121 VALLEY CREEK BOULEVARD, EXTON PA 19341



Plumbing

A001	CODE REVIEW
A002	FIRST FLOOR FIRE SAFETY & EGRESS PLAN
A003	GENERAL NOTES AND ABBREVIATION
A004	PARTITION & ROOF TYPES
A100	SITE PLAN
A101	FIRST FLOOR PLAN - BUILDING A
A102	FIRST FLOOR PLAN - BUILDING B & C
A103	BUILDING A AXONOMETRIC
A104	BUILDING B & C AXONOMETRIC
A121	REFLECTED CEILING PLAN - BUILDING A
A122	REFLECTED CEILING PLAN - BUILDING B & C
A141	ROOF PLAN - BUILDING A
A142	ROOF PLAN - BUILDING B & C
A201	BUILDING A ELEVATIONS
A202	BUILDING B ELEVATIONS
A203	BUILDING C ELEVATIONS ALTERNATE 6
A301	BUILDING SECTIONS - BUILDING A
A302	BUILDING SECTIONS - BUILDING B & C
A401	WALL SECTIONS BLDG A
A402	WALL SECTIONS BLDG A
A403	WALL SECTIONS BLDG A INTERIOR
A404	WALL SECTIONS BLDG B
A405	WALL SECTIONS BLDG C ALTERNATE 6
A501	PLAN DETAILS
A502	SECTION DETAILS
A503	ROOF DETAILS
A601	DOOR SCHEDULE
A602	FRAME ELEVATIONS
A701	STAIR AND RAILING DETAILS
A702	GUARDRAIL ELEVATIONS
A801	ENLARGED TOILET ROOM PLANS & DETAILS
A811	ENLARGED PLANS & ELEVATIONS
A812	CORRIDOR ELEVATIONS
A841	CASEWORK LEGEND
A851	SIGNAGE SCHEDULE AND DETAILS
A900.1	FINISH SCHEDULE & FINISH SPECIFICATIONS
A901	FIRST FLOOR FINISH PLAN - BUILDING A

M000	COVER SHEET - MECHANICAL
M101	FIRST FLOOR PLAN - BUILDING A - MECHANICAL
M102	FIRST FLOOR PLAN - BUILDING B - MECHANICAL
M501	DETAILS - MECHANICAL
M601	SCHEDULES - MECHANICAL
M602	SCHEDULES - MECHANICAL

P000	COVER SHEET - PLUMBING
P001	FIXTURE LIST - PLUMBING
P101	FIRST FLOOR PLAN - BUILDING A - DRAINAGE & VENT PIPING
P102	FIRST FLOOR PLAN - BUILDING B - PLUMBING
P201	FIRST FLOOR PLAN - BUILDING A - SUPPLY PIPING
P202	FIRST FLOOR PLAN - BUILDING B - SUPPLY PIPING
P601	DETAILS - PLUMBING
P602	DETAILS - PLUMBING
P603	DETAILS - PLUMBING

FP000	COVER SHEET - FIRE PROTECTION
FP101.1	FIRST FLOOR PLAN - FIRE PROTECTION
FP101.2	MEZZANINE FLOOR PLAN - FIRE PROTECTION
FP102	FIRST FLOOR PLAN - BUILDING B - FIRE PROTECTION

E000	COVER SHEET - ELECTRICAL
E101.1	FIRST FLOOR PLAN - BUILDING A - LIGHTING
E101.2	MEZZANINE FLOOR PLAN - BUILDING A - LIGHTING
E102	FIRST FLOOR PLAN - BUILDING B & C - LIGHTING
E201	FIRST FLOOR PLAN - BUILDING A - POWER
E202	FIRST FLOOR PLAN - BUILDING B & C - POWER
E301	ENLARGED PLANS - ELECTRICAL
E501	DETAILS AND DIAGRAMS - ELECTRICAL
E502	DETAILS AND DIAGRAMS - ELECTRICAL
E601	SCHEDULES - ELECTRICAL
E602	SCHEDULES - ELECTRICAL
SE101	SITE PLAN - POWER

Consultants:

Civil:

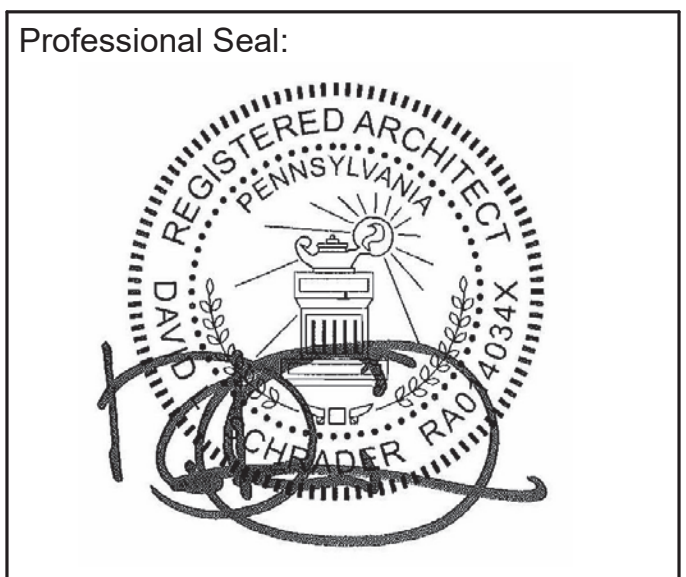
JMR Engineering, LLC
106 Schubert Drive
Downingtown, PA 19335
484-880-7342

MEP:

Snyder Hoffman
1005 West Lehigh Street
Bethlehem, PA 18018
610-694-6020

Structural:

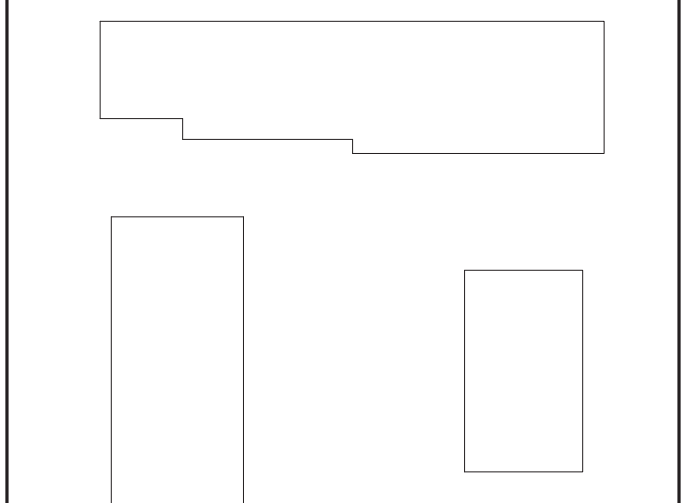
SchradlerGroup Architecture
153 East King Street, Suite 211-212
Lancaster, PA 17602
717-299-8965



New Construction of:
**WEST WHITELAND PUBLIC
WORKS FACILITY**
121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

[illegible]

Key Plan:



Drawing Number:

CS.1

Civil:

JMR Engineering, LLC
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Downingtown, PA 19335
484-880-7342

MEP

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Structural.

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Lancaster, PA 17602
717-299-8965

Professional Seal



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

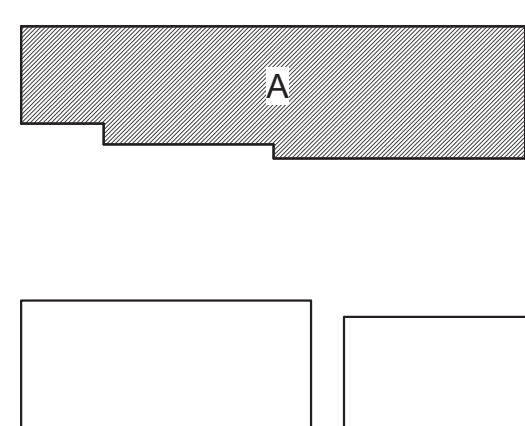
ISSUED FOR:

NO.	DESCRIPTION	DATE
	100% CONSTRUCTION DOCUMENTS	05/30/2023
	BID DOCUMENTS	07/05/2023

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

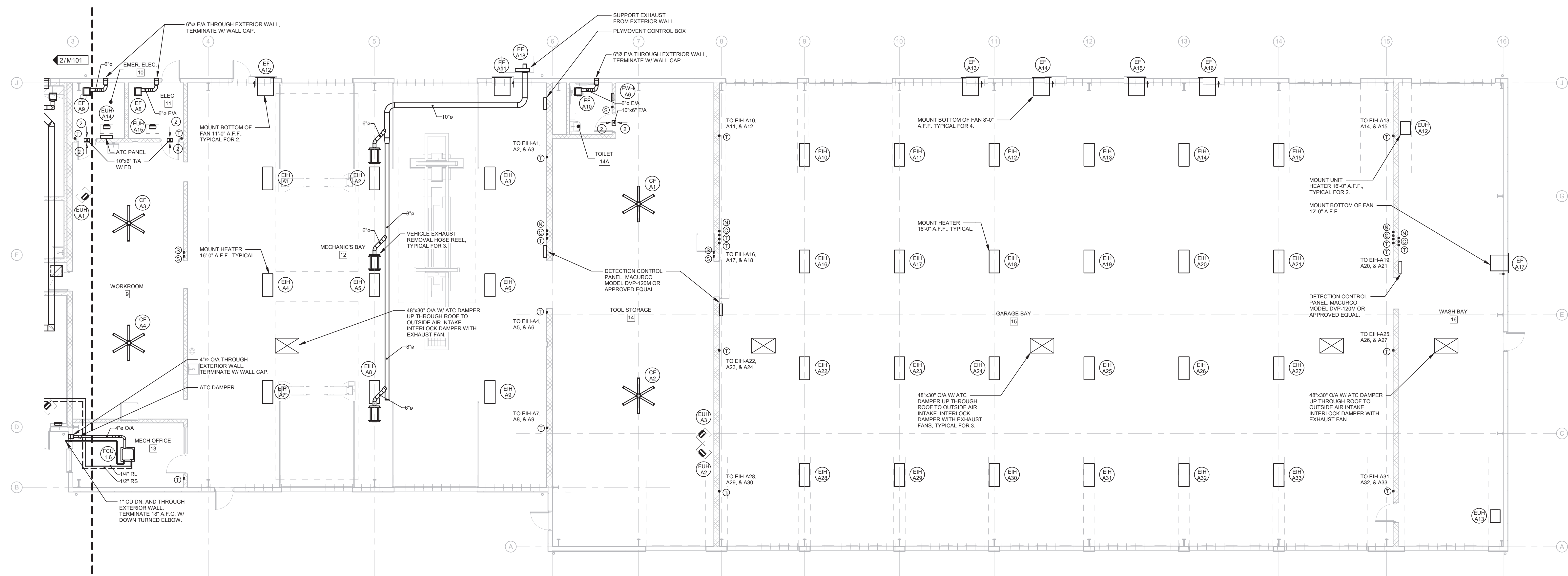


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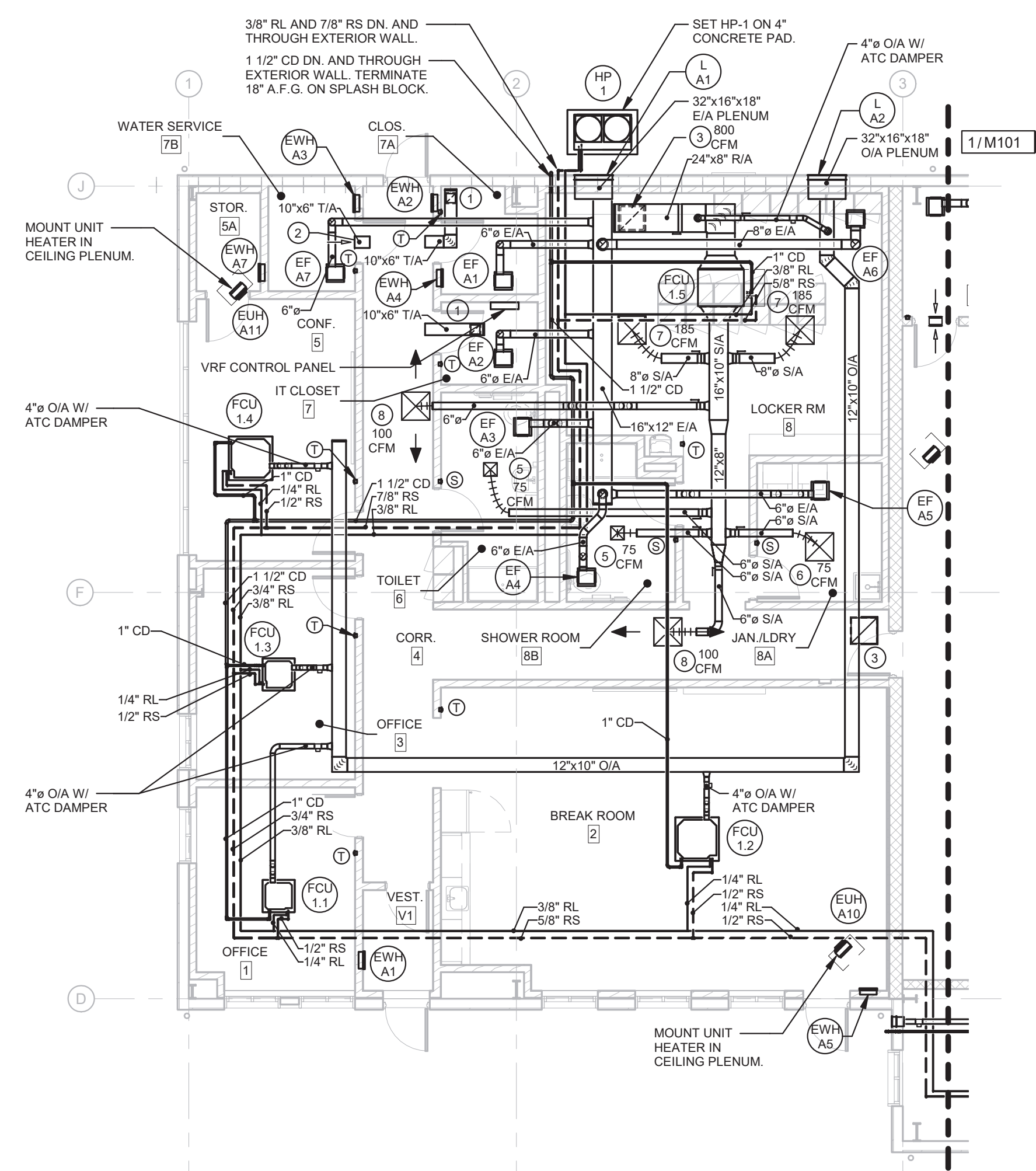
FIRST FLOOR PLAN -
BUILDING A -
MECHANICAL

Drawing Number:

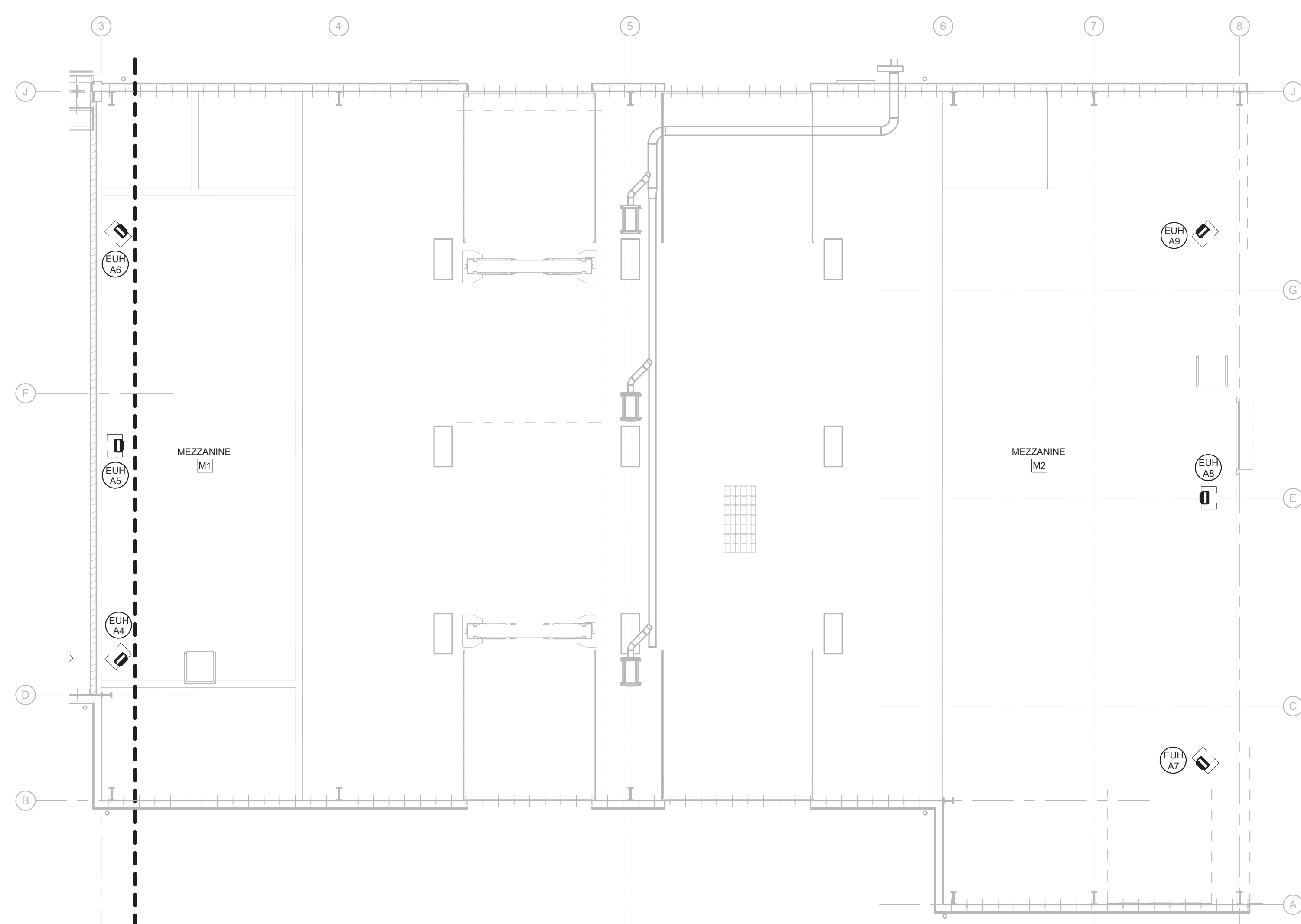
M101



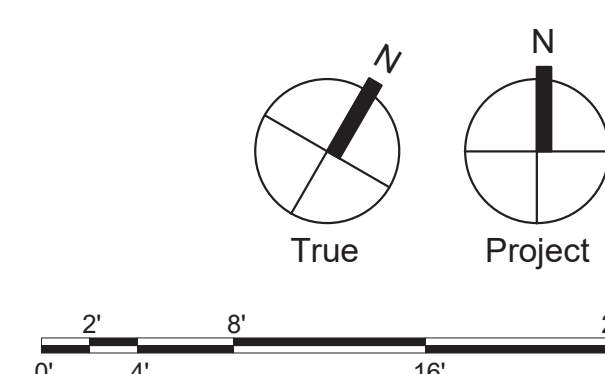
1 FIRST FLOOR PLAN - BUILDING A
M101 SCALE: 1/8" = 1'-0"



2 FIRST FLOOR PLAN - BUILDING A
M101 SCALE: 1/8" = 1'-0"



3 | MEZZANINE PLAN - BUILDING A
M101 SCALE: 1/8" = 1'-0"



Civil:

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Downingtown, PA 19335
484-880-7342

MEP

1005 West Lehigh Street
Bethlehem, PA 18018
610-694-8020

Structural.

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Lancaster, PA 17602
717-299-8965

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
SHANE E. MILLER
PE089735

101 Commerce Drive
Exton, PA 19341

New Construction of:

**WEST WHITELAND PUBLIC
WORKS FACILITY**

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

[illegible]

DATE: 07/05/2023

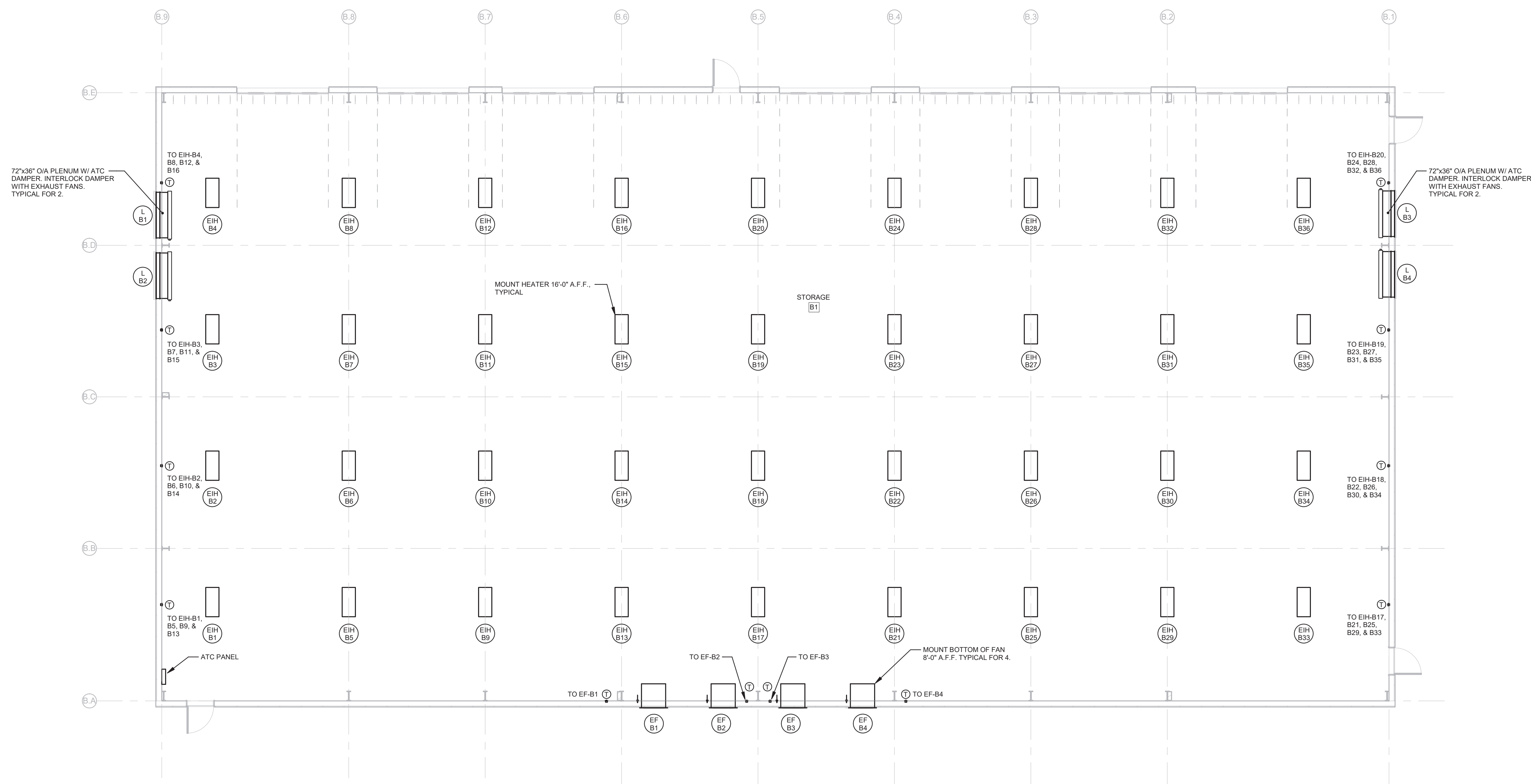
SG PROJECT NUMBER: 21-037



FIRST FLOOR PLAN -
BUILDING B -
MECHANICAL

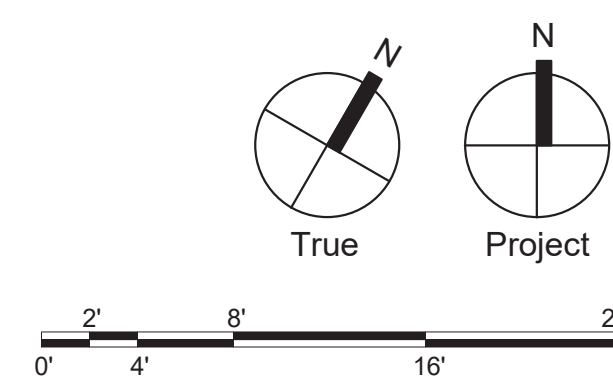
Drawing Number:

M102



1 | FIRST FLOOR PLAN - BUILDING B

M102 SCALE: 1/8" = 1'-0"



Civil

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Exton, PA 19341

New Construction of:

**WEST WHITELAND PUBLIC
WORKS FACILITY**

**121 VALLEY CREEK BOULEVARD,
EXTON PA 19341**

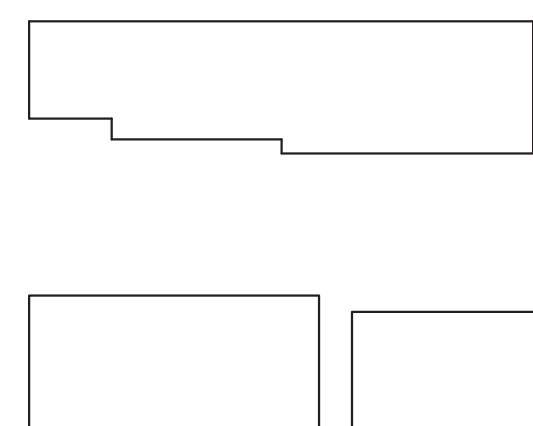
ISSUED FOR:

[illegible]

DATE: 07/05/2023

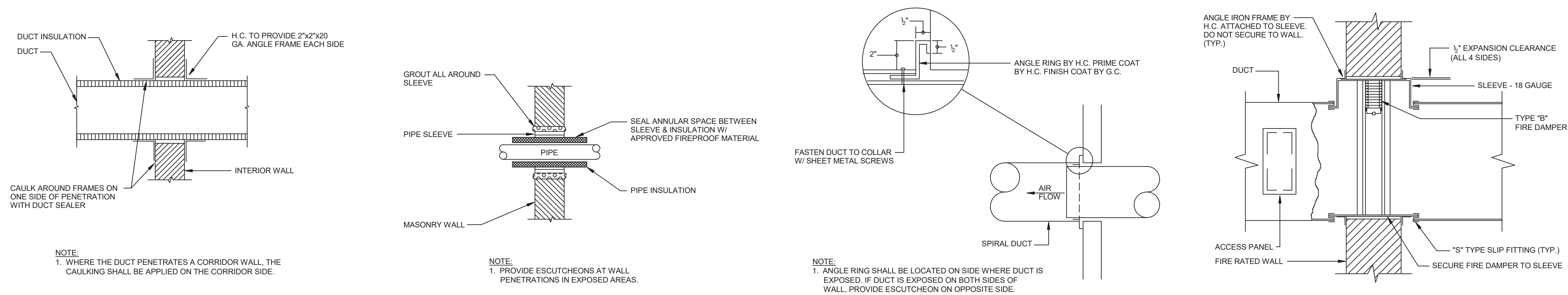
SG PROJECT NUMBER: 21-037

Key Plan:



DETAILS - MECHANICAL

M501



WALL PENETRATION DETAIL, DUCT

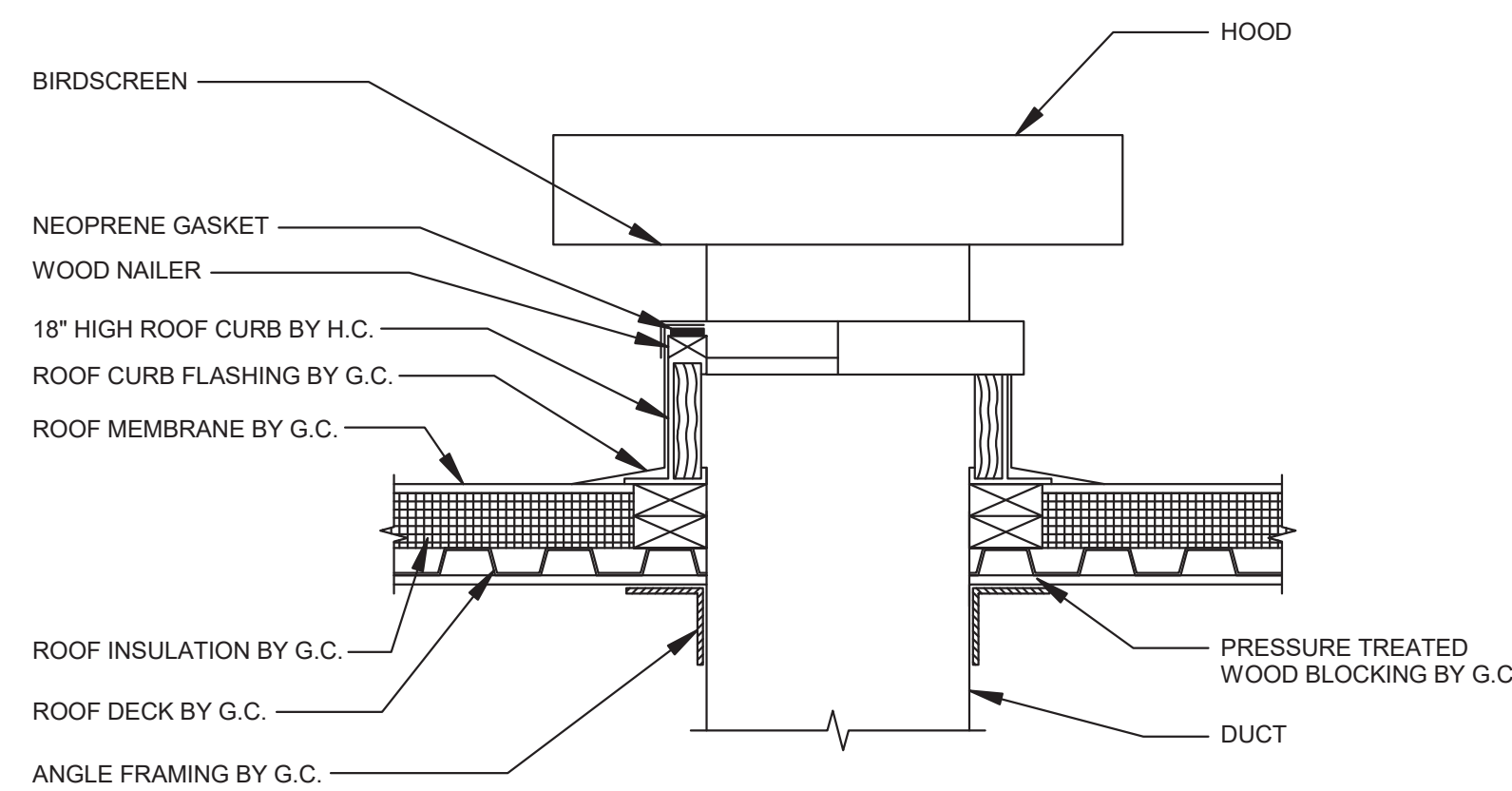
NO SCALE

PIPE SLEEVE DETAIL

NO SCALE

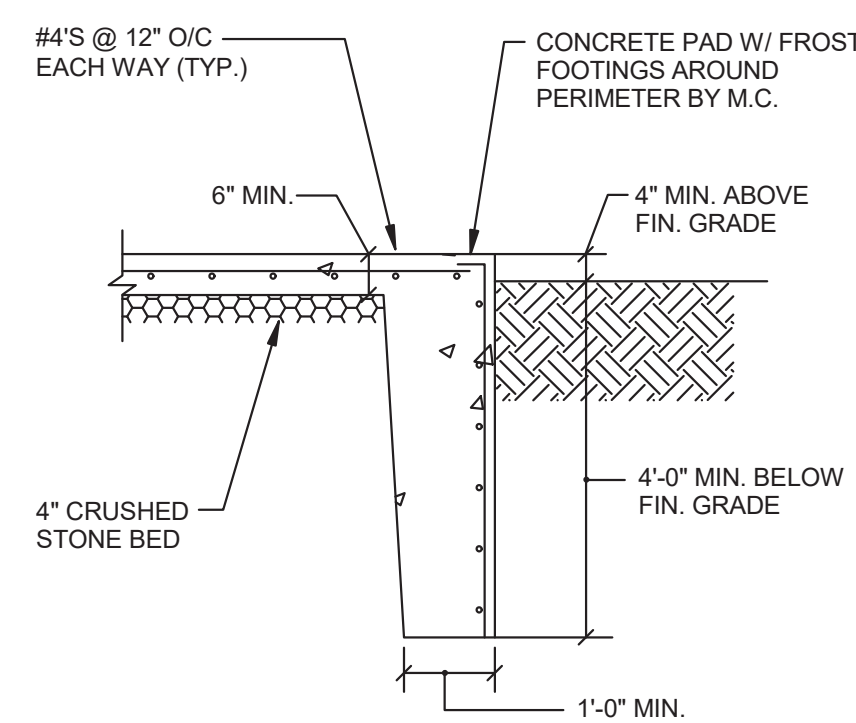
SPIRAL DUCT WALL PENETRATION DETAIL FIRE DAMPER DETAIL, HORIZONTAL DUCT

NO SCALE



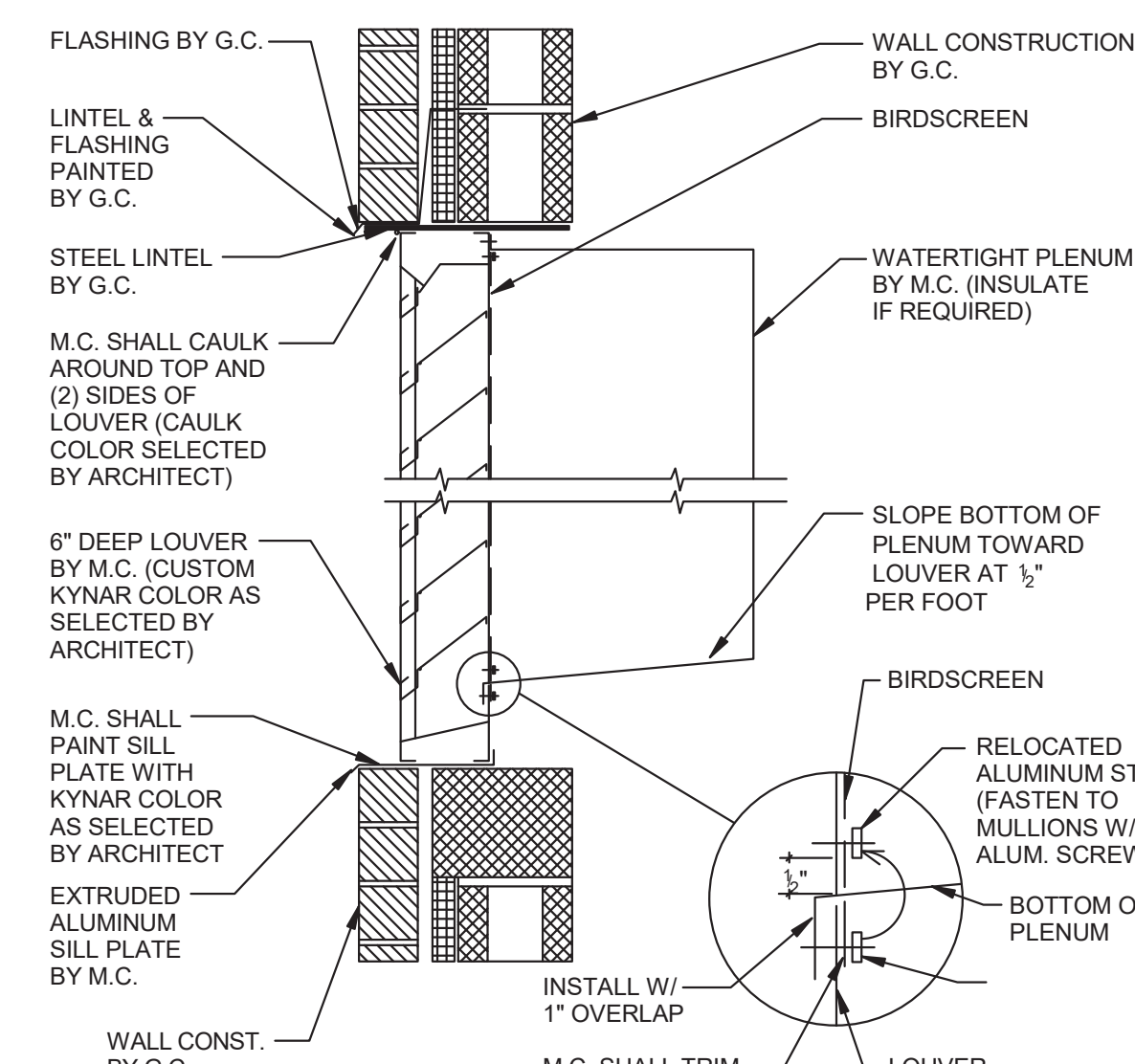
OUTSIDE AIR INTAKE DETAIL

NO SCALE



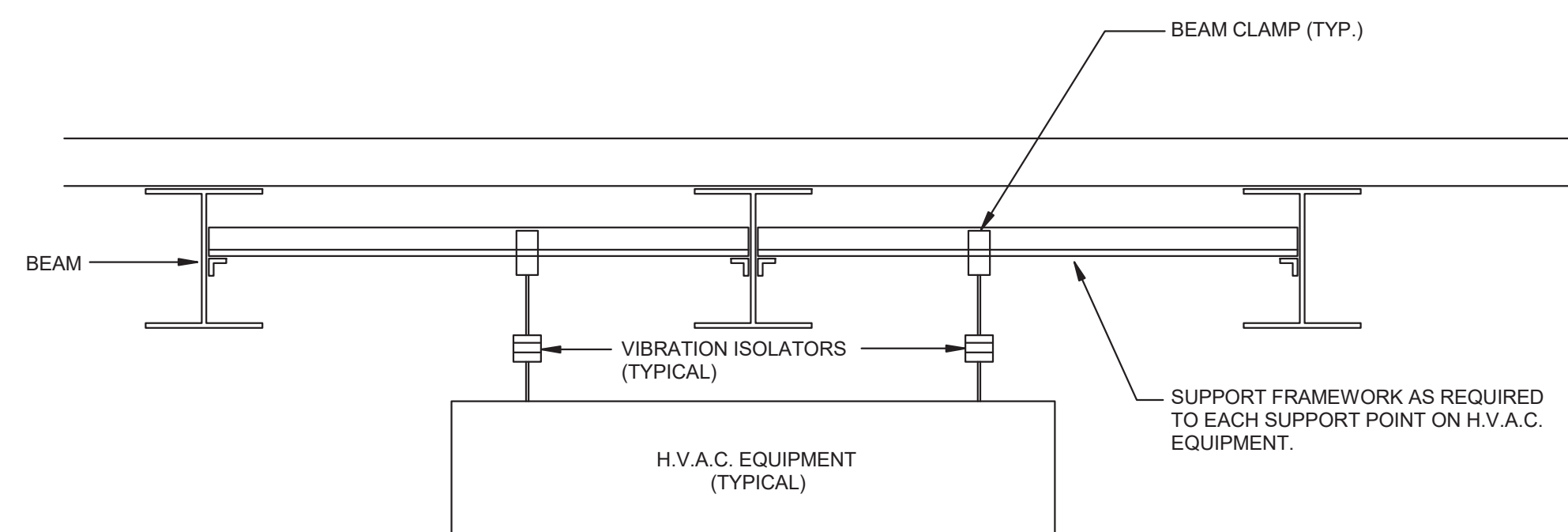
CONCRETE PAD DETAIL

NO SCALE



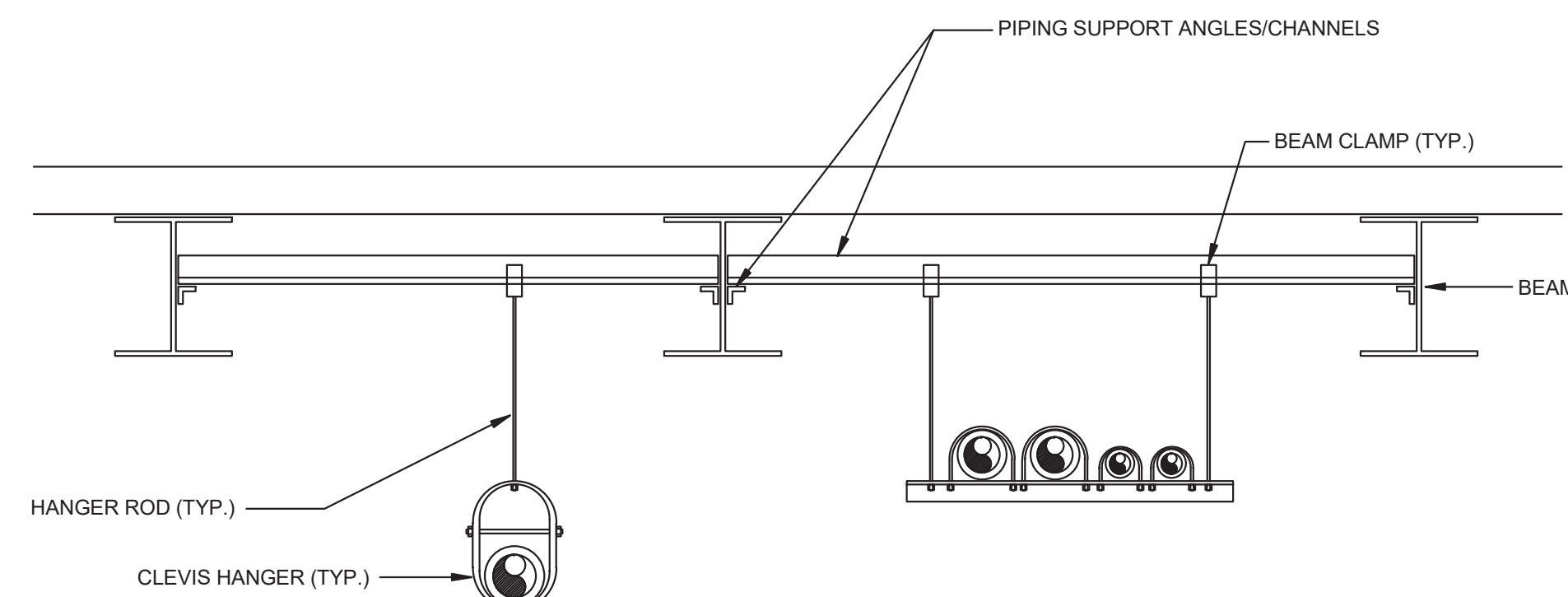
LOUVER / PLENUM DETAIL

NO SCALE



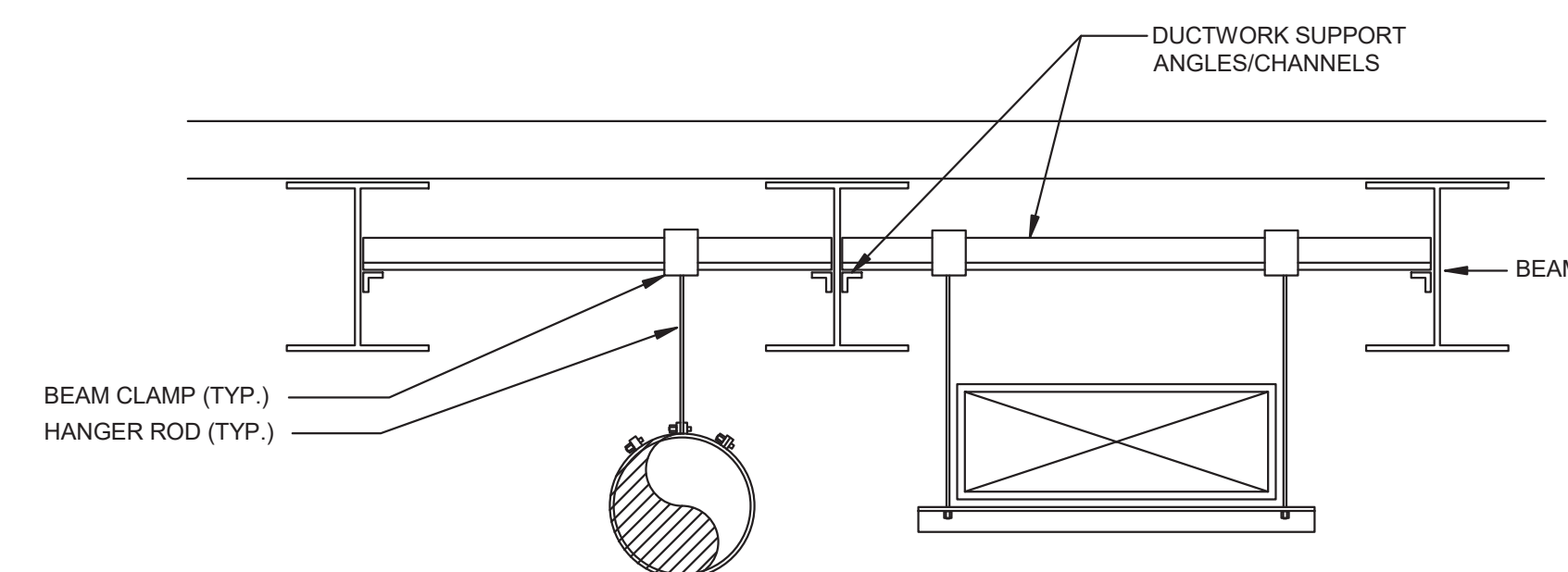
RESTRAINT DETAIL - SUSPENDED EQUIPMENT, STEEL BEAM CONSTRUCTION

NO SCALE



RESTRAINT DETAIL - PIPING, STEEL BEAM CONSTRUCTION

NO SCALE



RESTRAINT DETAIL - DUCTWORK, STEEL BEAM CONSTRUCTION

NO SCALE

M501

Civil

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MEP

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Bethlehem, PA 18018
610-694-8020

Structural.

SchraderGroup Architecture
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717-299-8965

Professional Seal



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

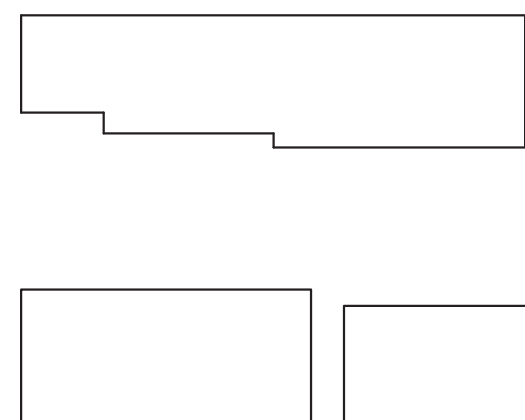
ISSUED FOR:

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:



Drawing Title:

SCHEDULES -
MECHANICAL

Drawing Number:

M601

NOTES

1. INSTALL ALL VRF UNITS FOLLOWING MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION, CLEARANCES AND SERVICEABILITY.
2. REFRIGERANT PIPING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR SIZING AND MAXIMUM PIPING LENGTH. PROVIDE PROPER REFRIGERANT CHARGE AS RECOMMENDED BY MANUFACTURER IF EQUIVALENT LENGTH EXCEEDS RATINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFRIGERANT PIPING ACCESSORIES AND APPURTENANCES AS REQUIRED TO COMPLETE THE SYSTEM.
4. PROVIDE CONDENSATE PUMP FOR ALL FCUs.
5. PROVIDE DISCONNECT SWITCH FOR EACH FCU AND HP.

NOTES:

1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
2. PROVIDE ON/OFF SWITCH. SWITCH FURNISHED BY H.C. AND INSTALLED BY E.C.
3. PROVIDE WALL MOUNTED THERMOSTAT WITH AUTO/MANUAL CONTROLS.
4. PROVIDE WALL HOUSING, MOTOR GUARD, AND COMBINATION LOUVER/SHUTTER.
5. REFER TO SPECIFICATION SECTION 234200 FOR ADDITIONAL INFORMATION.
6. FAN SHALL BE REMOVED FROM PROJECT SCOPE IF ALTERNATE #2 IS ACCEPTED.

NOTES

1. PROVIDE AUXILIARY DRAIN PAN.
2. PROVIDE MOTORIZED DAMPER.
3. INTAKE SHALL BE REMOVED FROM PROJECT SCOPE IF ALTERNATE #2 IS ACCEPTED.

NOTES:

- 1

NOTES:

1. PROVIDE CUSTOM COLOR AS SELECTED BY THE ARCHITECT

NOTES:

1. PROVIDE INTEGRAL DISCONNECT SWITCH & SINGLE POINT POWER CONNECTION
2. PROVIDE INTEGRAL THERMOSTAT.

NOTES:

1. PROVIDE DISCONNECT SWITCH & SINGLE POINT POWER CONNECTION.
2. PROVIDE INTEGRAL THERMOSTAT AND UNIVERSAL MOUNTING BRACKET.
3. UNIT SHALL BE CONSTRUCTED OF STAINLESS STEEL.
4. UNIT SHALL BE REMOVED FROM PROJECT SCOPE IF ALTERNATE #2 IS ACCEPTED.

[illegible]

Civil

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Snyder Hoffman

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
SHANE E. MILLER
ENGINEER
PE089735

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

T WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

SCHEDULES - MECHANICAL

Drawing Number:

M602

NOTES:

1.

NOTES:

1. PROVIDE FIXED WALL MOUNTED CONTROLLER

NOTES:

1.

Civil

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Structural

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Professional Seal



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

**WEST WHITELAND PUBLIC
WORKS FACILITY**

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

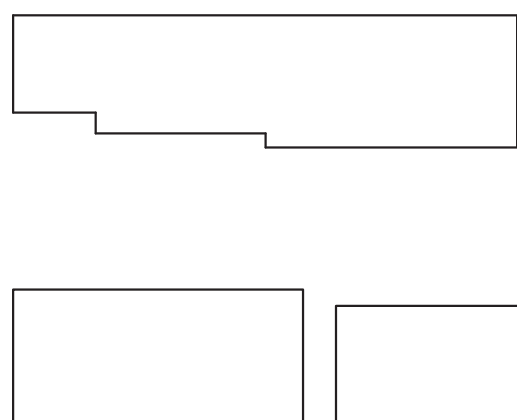
ISSUED FOR:

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:


















































Drawing Title:

COVER SHEET -
ELECTRICAL

Drawing Number:

E000

	FIRE ALARM PULL STATION
	FIRE ALARM AUDIOVISUAL HORN ALARM DEVICE # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	FIRE ALARM VISUAL-ONLY ALARM DEVICE # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	FIRE ALARM BELL
	CEILING-MOUNTED AUDIOVISUAL FIRE ALARM DEVICE # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	CEILING-MOUNTED AUDIO ONLY FIRE ALARM DEVICE.
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	SPRINKLER SYSTEM FLOW SWITCH (BY OTHERS)
	SPRINKLER SYSTEM TAMPER SWITCH (BY OTHERS)
	SPRINKLER SYSTEM PRESSURE SWITCH (BY OTHERS)
	RESCUE ASSISTANCE REMOTE CALL STATION
	RESCUE ASSISTANCE MASTER STATION/ANNUNCIATOR PANEL
	SPRINKLER SYSTEM ELECTRIC MOTOR GONG
	DOORBELL
	DOOR HOLDER - FIRE ALARM SYSTEM
	INDIVIDUAL ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	ZONE ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	CONTROL RELAY ZONE ADDRESSABLE MODULE - FIA SYSTEM
	REQUEST-TO-EXIT DETECTOR
	CLOCK, SPEAKER UNIT
	WALL MOUNTED CLOCK
	DOUBLE FACE CLOCK
	CORD REEL WITH 20A 120V OUTLET
	EXISTING DEVICES TO REMAIN
	MICROPHONE JACK - SOUND SYSTEM
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, WALL-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, WALL-MOUNTED)
	PUBLIC ADDRESS/ INTERCOM VOLUME CONTROL
	INTERCOM DOOR STATION
	INTERCOM MASTER STATION
	MOTION DETECTOR - SECURITY SYSTEM
	CEILING MOUNTED, 360° MOTION DETECTOR
	DOOR MAGNET CONTACT - SECURITY SYSTEM
	SECURITY CAMERA
	ALARM HORN - SECURITY SYSTEM
	ELECTRIC DOOR STRIKE
	CARD READER
	KEY PAD
	RESET KEYSWITCH STATION
	PUSH PLATE
	EMERGENCY OFF PUSH-BUTTON
	EMERGENCY KILLSWITCH
	GAS SOLENOID VALVE
	NURSE CALL DOME LIGHT. 'C' INDICATES CEILING MOUNTED
	NURSE CALL AUXILIARY STATION
	NURSE CALL CODE BLUE STATION
	CALL CANCEL BUTTON
	DUTY STATION
	EMERGENCY CALL STATION
	NURSE CALL PATIENT STATION W/ CODE BLUE AND STAFF ASSISTANCE
	NURSE CALL SINGLE PATIENT WALL-MOUNTED PUSH BUTTON STATION
	NURSE CALL PATIENT STATION W/ STAFF ASSISTANCE AND PILLOW SPEAKER
	NURSE CALL PATIENT STATION W/ STAFF ASSISTANCE
	NURSE CALL STAFF STATION W/ CODE BLUE
	NURSE CALL DECENTRALIZED MINI-MASTER TOUCH STATION
	NURSE CALL CONTROL STATION HEAD END
	NURSE CALL MASTER STATION
	NURSE CALL FULL SIZED MASTER STATION
	NURSE CALL PULL CORD STATION
	SLAVE SHOWER BATH STATION WITH PULL CORD
	NURSE CALL STAFF STATION
	NURSE CALL STAFF ASSISTANCE STATION

ELECTRICAL ABBREVIATIONS	
A/a	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AFI	ARC FAULT INTERRUPTER RECEPTACLE
ARCH.	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
A/V	AUDIOVISUAL
AWG.	AMERICAN WIRE GAUGE
BEPs	BUILDING ENTRANCE PROTECTORS
BKR.	BREAKER
CKT.	CIRCUIT
CLG.	CEILING
COND.	CONDUIT
CT	COUNTERTOP
DISC.	DISCONNECT
DN	DOWN
DWG.	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EM.	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EW	ELECTRIC WATER COOLER (PROVIDE GROUND FAULT PROTECTION)
EXIST./EX./E	EXISTING
F.A.	FIRE ALARM
G.C.	GENERAL CONTRACTOR
GEN.	GENERATOR
GFI	GROUND FAULT INTERRUPTER RECEPTACLE
GND.	GROUND
H.C.	HEATING CONTRACTOR
HD	HAND DRYER
HWH	HOT WATER HEATER
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX.	MAXIMUM
M.C.	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MIN.	MINIMUM
MTD.	MOUNTED
NIE	NORMAL EMERGENCY
P	POLE
P.C.	PLUMBING CONTRACTOR
PNL.	PANEL
POTS	PLAIN OLD TELEPHONE SERVICE
PTZ	PAN, TILT, ZOOM
S.F.	SQUARE FEET
SW.	SWITCH
TR	TAMPER RESISTANT
TYP.	TYPICAL
UE	UNDERGROUND ELECTRIC
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

EQUIPMENT TAG LEGEND	
NOTE: NOT ALL TAGS SHOWN ON THE LEGEND ARE USED ON THIS PROJECT	
(ACC) X	AIR-COOLED CHILLER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(ACU) X	AIR-COOLED CONDENSER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(AHU) X	AIR HANDLING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(ATC) X	AUTOMATIC TEMPERATURE CONTROL DAMPER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(B) X	BOILER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(CF) X	CEILING FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(CH) X	CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(CHP) X	CONSOLE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(CP) X	CONDENSATE PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(CT) X	COOLING TOWER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(CU) X	CONDENSING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(CV) X	CONSTANT VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(DRU) X	DEHUMIDIFICATION UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(DSS) X	DUCTLESS SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(ECH) X	ELECTRIC CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(EDC) X	ELECTRIC DUCT COOL - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(EF) X	EXHAUST FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(EIH) X	ELECTRIC INFRARED HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(FH) X	FUME HOOD - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(FPU) X	FAN-POWERED VAV BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(FCU) X	FAN COIL UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(GF) X	GAS FURNACE - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(GUR) X	GAS-FIRED UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(H) X	HUMIDIFIER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(HP) X	HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(HRU) X	HEAT RECOVERY UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(IR) X	INFRARED HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(MALU) X	MAKEUP AIR UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(P) X	PUMP - SUPPLIED AND INSTALLED BY OTHERS, FINAL CONNECTION BY E.C.
(PTAC) X	PACKAGED THRU-WALL A/C UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(RF) X	RETURN AIR FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(RTU) X	ROOFTOP UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(SF) X	SUPPLY FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(SS) X	SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(UH) X	UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(UV) X	UNIT VENTILATOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(VAN) X	VARIABLE AIR VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(WH) X	WALL HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
(WSP) X	WATER SOURCE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.

ELECTRICAL GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, WIRE SIZES SHALL BE AS FOLLOWS: 20A #12, 30A #10, 40A #8, 50A #6, 70A #4, 100A #1.

2. LIGHTING LAYOUT IS DIAGRAMMATIC. E.C. SHALL COORDINATE LIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES AND ADJUST AS REQUIRED.

3. ALL ROOF AND EXTERIOR MOUNTED, GROUND-FAULT RECEPTACLES SHALL HAVE LOCKABLE "WET/DRY" WEATHER-PROOF COVERS. IN ALL OCCUPANCY RECEPTACLES, SHOWN ON THE DRAWINGS, THE E.C. SHALL PROVIDE AND INSTALL (4) ADDITIONAL "GFCI" PROOF RECEPTACLES. THE E.C. SHALL COORDINATE THE LOCATION OF THE OWNER. EACH OF THE RECEPTACLES SHALL HAVE 80' OF BRANCH CIRCUIT WIRING TO CONNECT TO THE NEAREST AVAILABLE RECEPTACLE CIRCUIT. E.C. SHALL ASSUME RESPONSIBILITY FOR CONSTRUCTION PURPOSES OF THE INSTALLATION OF THESE RECEPTACLES.

4. E.C. SHALL REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL DEVICE LOCATIONS, WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR MOUNTING HEIGHT AND LOCATION OF THE DEVICES.

5. E.C. SHALL COORDINATE THE INSTALLATION OF THE DOOR HARDWARE WITH THE G.C. TO INSURE THAT THE DOORS OPERATE PROPERLY. THE E.C. SHALL INCLUDE THE MAGNETIC LOCKS, MAGNETIC DOOR HOLDERS, AND/OR OTHER DEVICES REQUIRED TO PROVIDE AND POWER ANY NECESSARY INTERVIEW DEVICES SUCH AS TRANSFORMERS OR RELAYS AND POWER FEED WIRING AS REQUIRED TO SUPPORT THE INSTALLATION OR SYSTEM. ALSO INCLUDE POWER BRANCH CIRCUIT WIRING FOR ALL ELECTRIC DOOR STRIKES AS REQUIRED.

6. IN ADDITION TO THE QUANTITIES SHOWN ON THE DRAWING, THE E.C. SHALL PROVIDE AND INSTALL THE FOLLOWING: (1) DATA OUTLETS, (2) EXIT SIGNS, (3) FIRE ALARM DETECTORS, (4) MANUAL PULL STATIONS, (5) AUDIOVISUAL DEVICES, AND (6) VISUAL ALOY DEVICES, INCLUDE THE COST OF INSTALLATION WITH UP TO 10' OF SYSTEM WIRING PER DEVICE AND ASSUME INSTALLATION WILL BE AFTER FINISHES ARE COMPLETE AND CEILINGS HAVE BEEN INSTALLED, CONNECT EACH DEVICE TO ITS RESPECTIVE SYSTEM AND INCLUDE WIRING TO REPRODUCE THE OPERATING SYSTEM TO ADD ANY OF THE ABOVE MENTIONED DEVICES. THE E.C. SHALL TURN OVER TO THE OWNER ANY DEVICES THAT ARE NOT UTILIZED ON THE PROJECT AS SPARE PARTS.

7. THE E.C. SHALL PROVIDE A 4" HIGH CONCRETE PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT PROVIDED UNDER THE ELECTRICAL CONTRACT. THIS SHALL INCLUDE SCHEDULERS, EMERGENCY STOP DEVICES, AND OTHER FLOOR-MOUNTED EQUIPMENT. THE EQUIPMENT MOUNTED ON THE PADS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

8. THE E.C. SHALL NOT INSTALL ANY CONDUITS WITHIN ANY OF THE ELEVATED FLOOR SLABS, ANY CONDUITS INSTALLED BELOW THE SLAB ON GRADE SHALL BE INSTALLED IN THE STONE BASE AND NOT WITHIN THE CONCRETE.

9. ALL 120V SINGLE-PHASE 15A AND 20A RECEPTACLES IN KITCHEN AND SERVING AREAS SHALL BE GFI PROTECTED.

10. THE E.C. SHALL VERIFY ROOM-IN-LOCATION FOR ELECTRIC WATER COOLER (EWC) AND RELOCATE WITH P.H. BEFORE DRAINAGE WORK. PROVIDE OUTLET, CORD AND PLUG FOR REMOTE CHART MOUNTED ABOVE CEILING. PROVIDE GFI-TYPE RECEPTACLES FOR ALL EWC'S.

11. THE E.C. SHALL INCLUDE IN THE ELECTRICAL BID FOR THE POST-CONSTRUCTION ADJUSTMENT OF THE OCCUPANCY SENSORS AS DIRECTED BY THE ARCHITECT OR OWNER. THIS SHALL INCLUDE ADJUSTING THE SENSORS TO THE LOCATION OF THE DEVICES. ALSO INCLUDE THE COST TO RELOCATE (10) SENSORS UP TO 26" IN ORDER TO ELIMINATE FALSE TRIPPING OF THE SENSORS.

12. DEVICE MOUNTING HEIGHTS AS FOLLOWS:

RECEPTACLES 18" ABOVE FINISHED FLOOR TO CENTER OF BOX

CT RECEPTACLES 3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH






SWITCHES 48" ABOVE FINISHED FLOOR TO TOP OF BOX

FIRE ALARM PULL STATIONS THE OPERATING PART (1) HANDLE/1) LEVER SHALL BE 54" TO 60" MAXIMUM FIRE ALARM BOX SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 42" A.F.F.

PANELS 54" TO CENTERLINE

FIRE ALARM A/V UNITS UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED AUDIOVISUAL OR VISUAL-ONLY DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 60" ABOVE FINISHED FLOOR.

WALL MOUNTED TELEPHONES 48" ABOVE FINISHED FLOOR TO TOP OF BOX

OCCUPANCY SENSOR SCHEDULE					
SYMBOL	MANUFACTURER	MODEL #	COVERAGE AREA SQ. FT.	SENSOR TYPE	ADDITIONAL REMARKS
	WATTSTOPPER	WS-301	900	INFRARED	WALL MOUNTING
	WATTSTOPPER	DT-200	2000	DUAL TECHNOLOGY	WALL OR CEILING MOUNTING
	WATTSTOPPER	DT-300	1000	DUAL TECHNOLOGY	360° CEILING MOUNTING
	WATTSTOPPER	WT-225S	90 LINEAL FEET	ULTRASONIC	CEILING MOUNTED CORRIDOR SENSOR
	WATTSTOPPER	UT-35S-2	1000	ULTRASONIC	CEILING MOUNTED

NOTES: DISABLE SMART SET TECHNOLOGY IN ALL SPACES

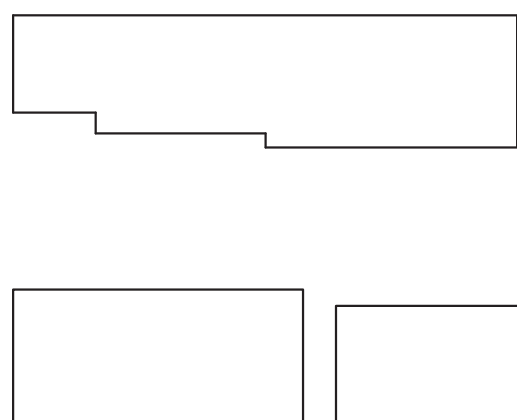
CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO ROUGH-IN

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:



Drawing Title:

COVER SHEET -
ELECTRICAL

Drawing Number:

E000

Civil

106 Schubert Drive

Downingtown, PA 19335
484-880-7342

MEP:

Snyder Hoffman

1005 West Lehigh Street

Bethlehem, PA 18018

610-694-8020

Structural.

SchraderGroup Architecture

153 East King Street, Suite 211-212

Lancaster, PA 1760

717-299-8965

Professional Seal:



Owner:

West Whiteland Township

101 Commerce Drive

Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

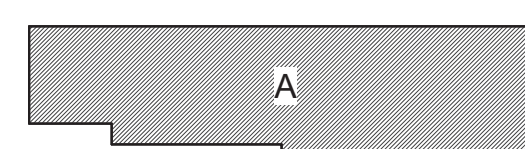
ISSUED FOR:

NO.	DESCRIPTION	DATE
	100% CONSTRUCTION DOCUMENTS	05/30/2023
	BID DOCUMENTS	07/05/2023

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

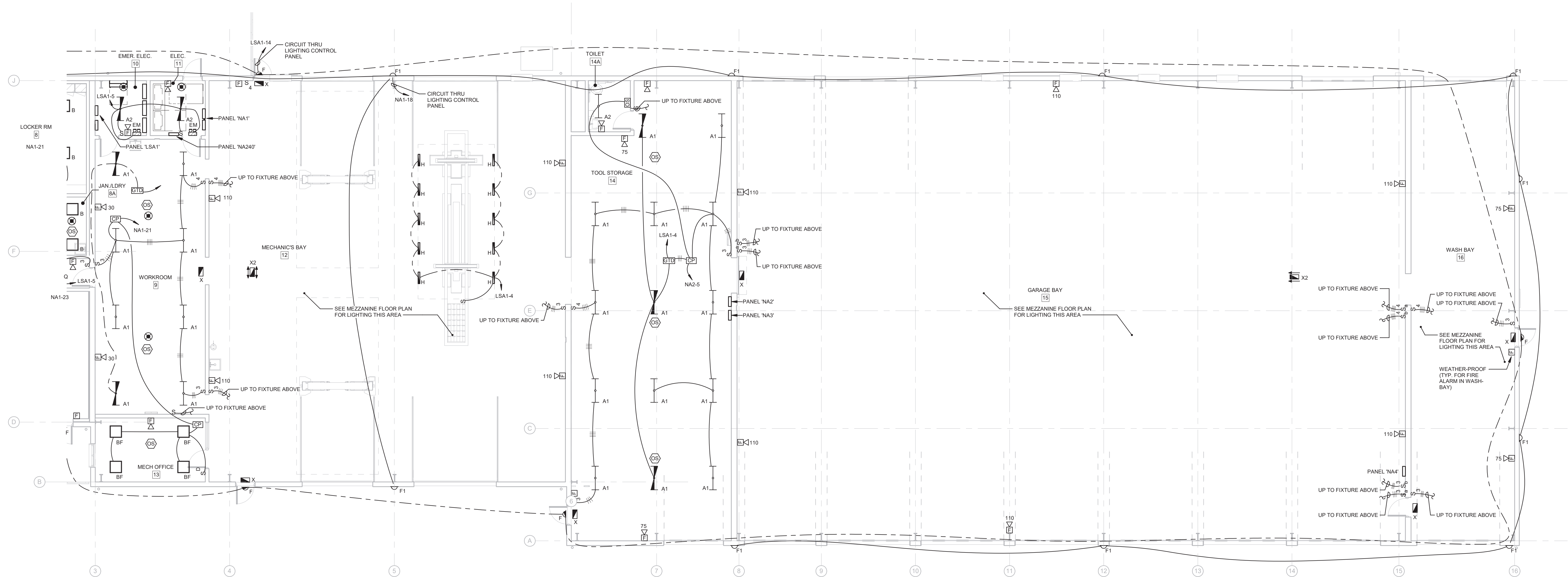


Drawing Title:

FIRST FLOOR PLAN -
BUILDING A - LIGHTING

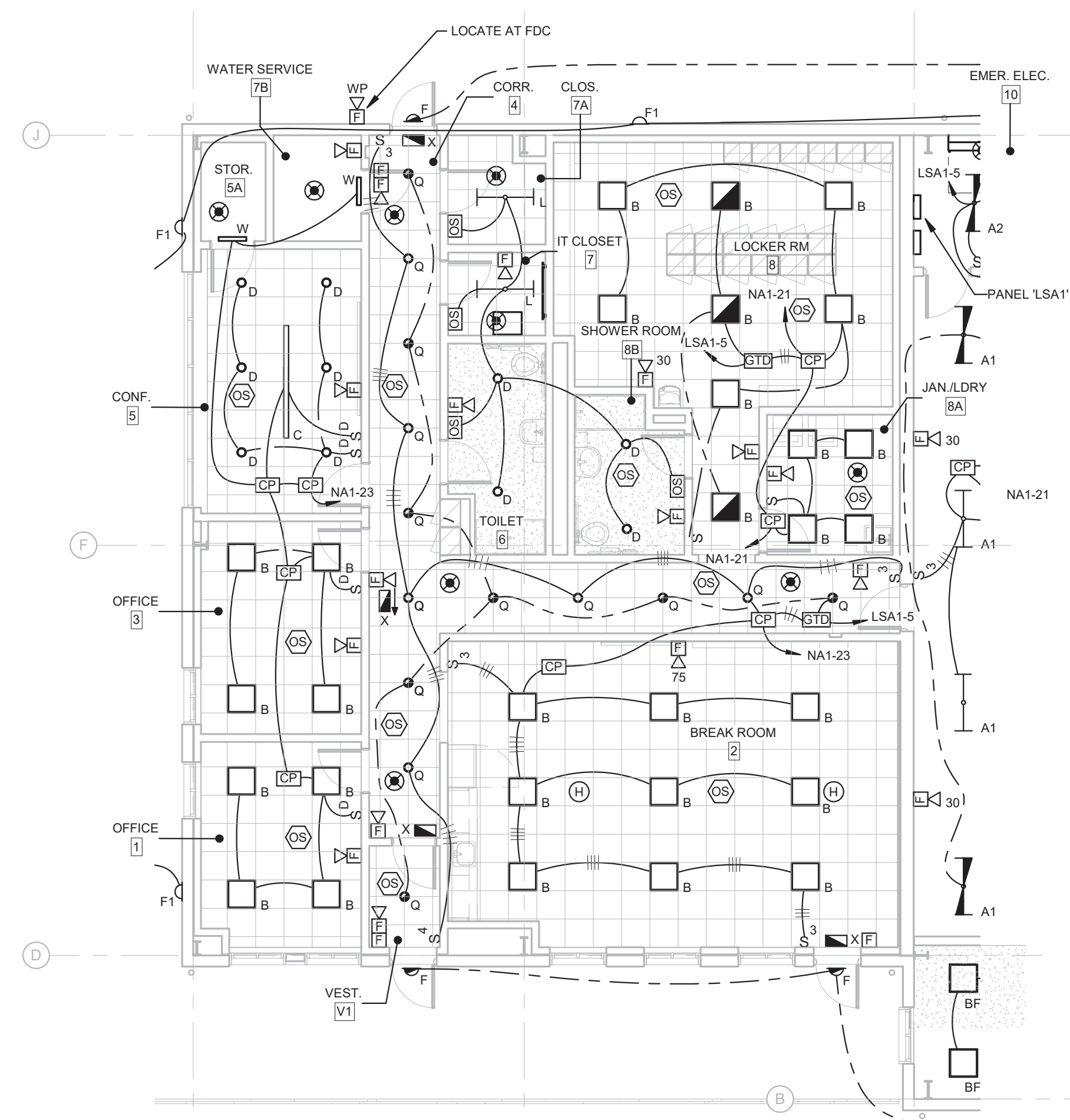
Drawing Number:

E101.1



2 | FIRST FLOOR PLAN - BUILDING A - AREA 2 - LIGHTING

E101.1 SCALE: 1/8" = 1'-0"

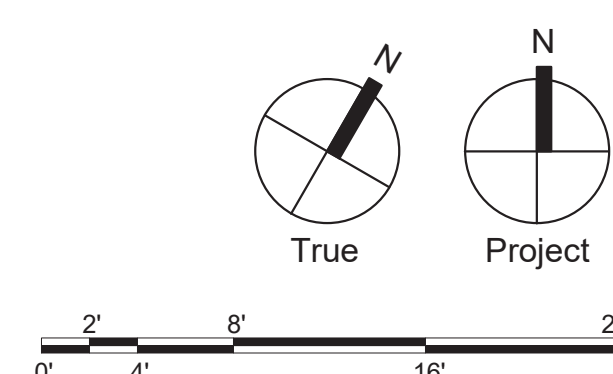


1 | FIRST FLOOR PLAN - BUILDING A - AREA 1 - LIGHTING

E101.1 SCALE: 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

1. REFER TO E000 FOR LEGEND AND GENERAL NOTES.
2. CIRCUIT ALL EXIT SIGNS TO NEAREST UNSWITCHED 120V LIFESAFTY CIRCUIT.



Civil:

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
SHANE E. MILLER
PE089735

Owner:

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

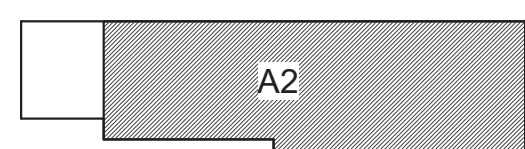
ISSUED FOR:

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DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

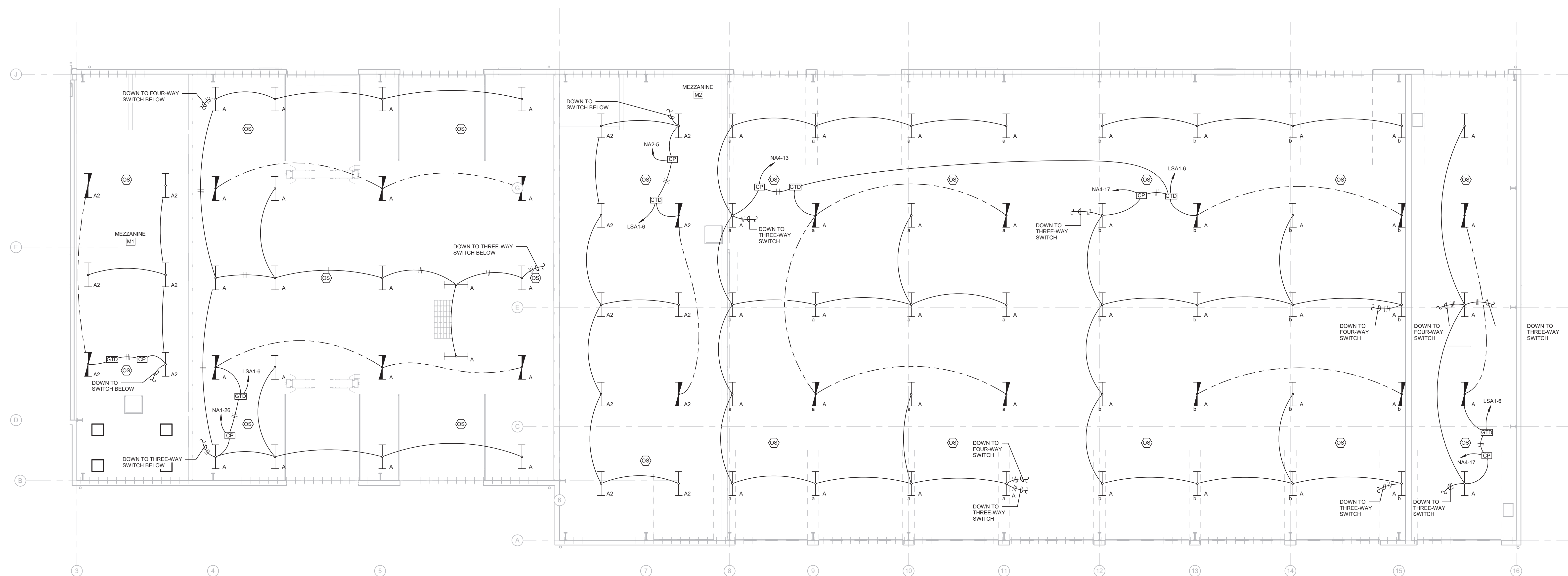


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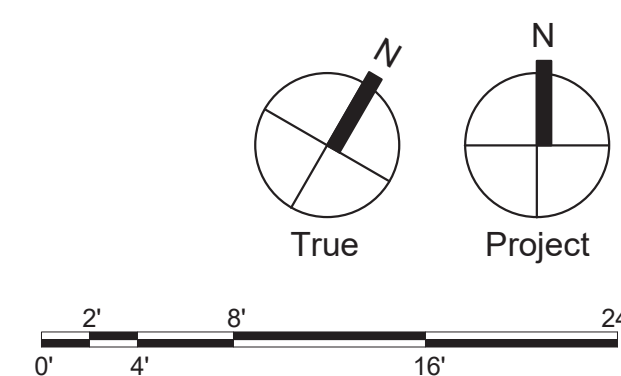
MEZZANINE FLOOR
PLAN - BUILDING A -
LIGHTING

Drawing Number:

E101.2



1 | MEZZANINE FLOOR PLAN - BUILDING A - LIGHTING



Civil:

106 Schubert Drive
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COMMONWEALTH OF PENNSYLVANIA
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Exton, PA 19341

New Construction of:

**WEST WHITELAND PUBLIC
WORKS FACILITY**

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

NO.	DESCRIPTION	DATE
	100% CONSTRUCTION DOCUMENTS	05/30/2023
	BID DOCUMENTS	07/05/2023

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

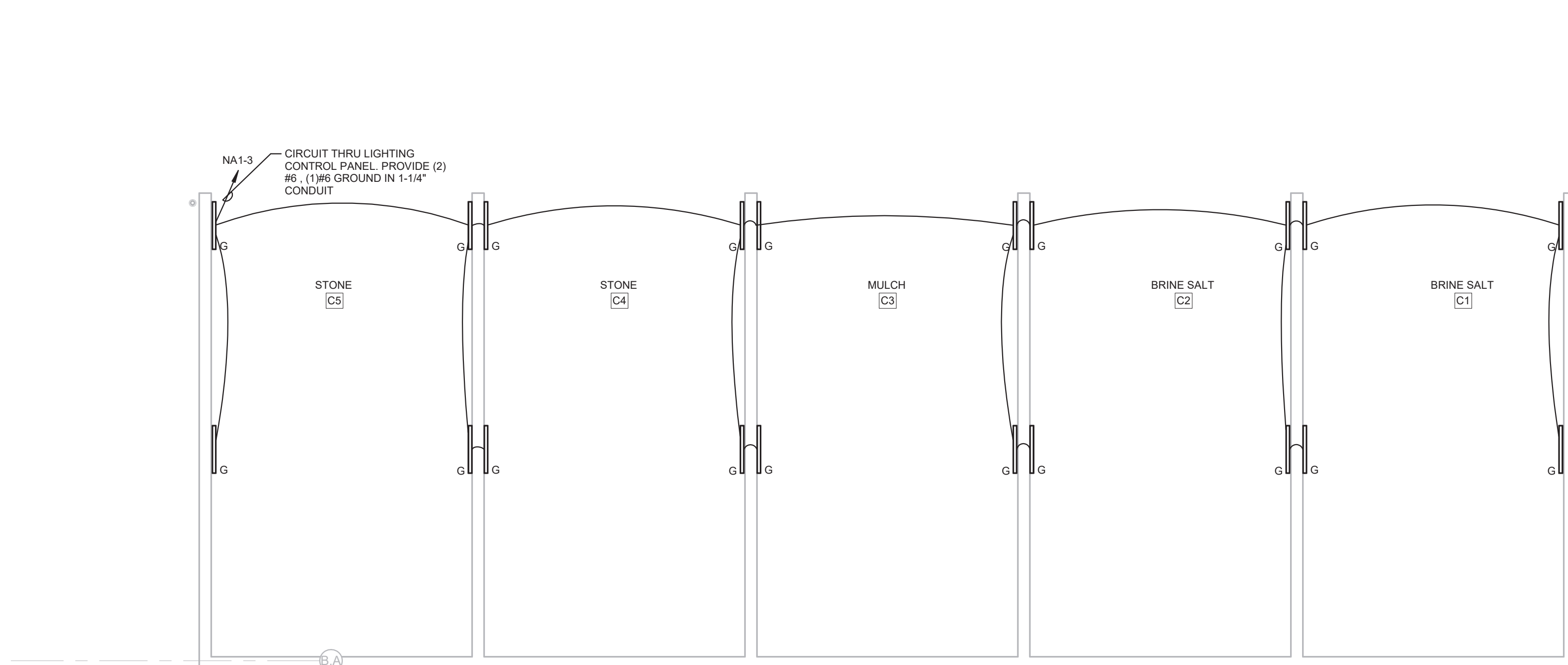
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5

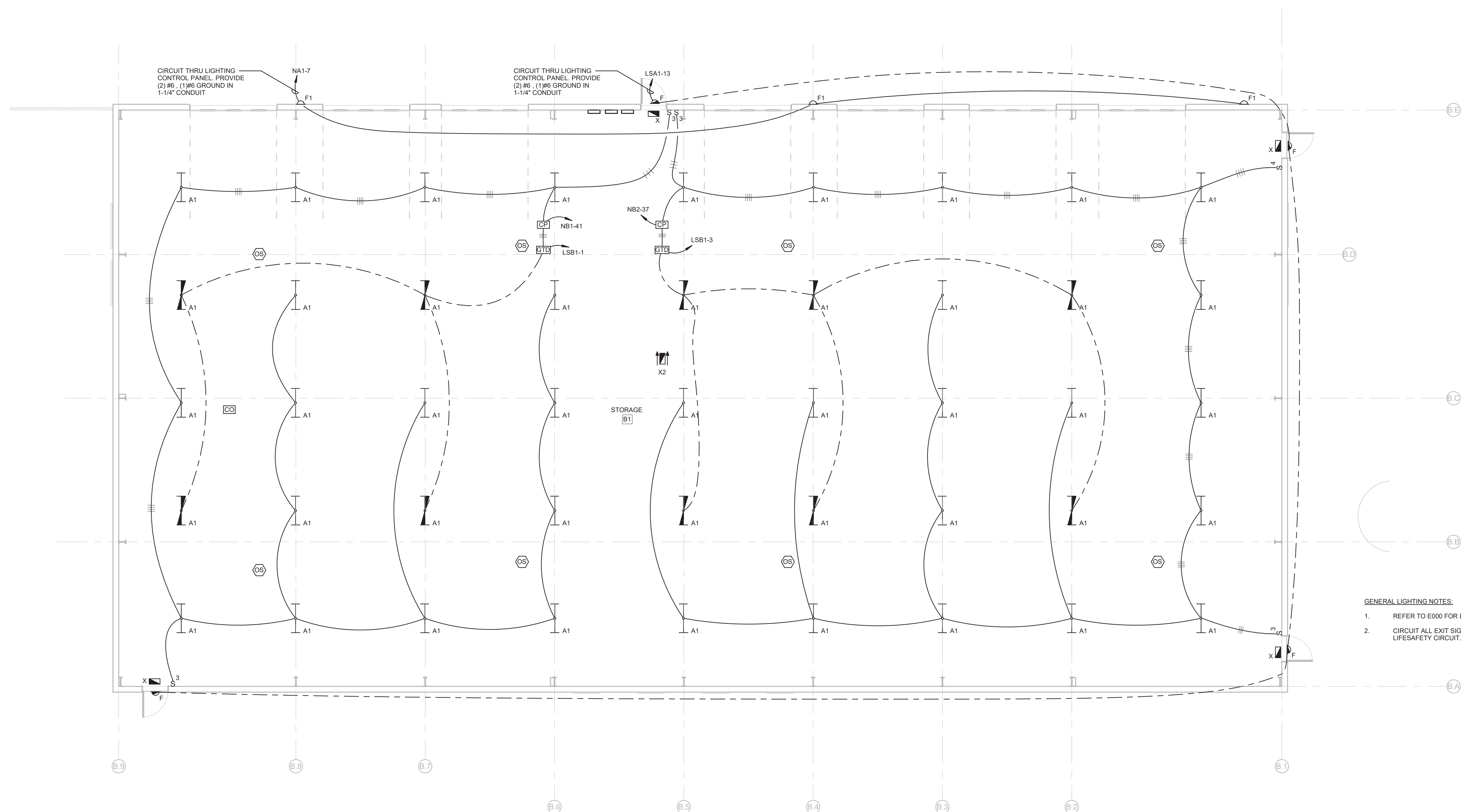
FIRST FLOOR PLAN -
BUILDING B & C -
LIGHTING

Drawing Number:

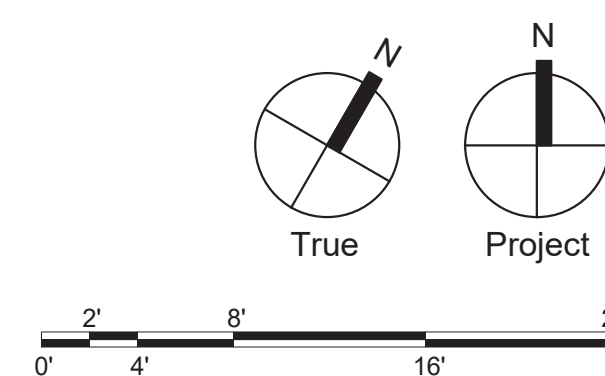
E102



E102 SCALE: 1/8" = 1'-0"



E102 SCALE: 1/8" = 1'-0"



Consultants:

Civil:

JMR Engineering, LLC

106 Schubert Drive
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MEP:

Snyder Hoffman

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610-694-8020

Structural:

SchraderGroup Architecture

153 East King Street, Suite 211-212
Lancaster, PA 17602
717-299-8965

Professional Seal:



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

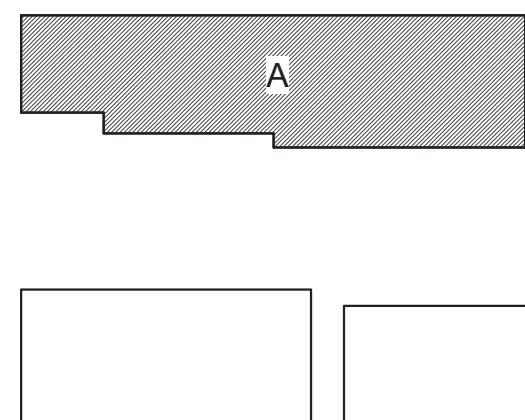
ISSUED FOR:

NO.	DESCRIPTION	DATE
100%	CONSTRUCTION DOCUMENTS	05/30/2023
BID	DOCUMENTS	07/05/2023

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

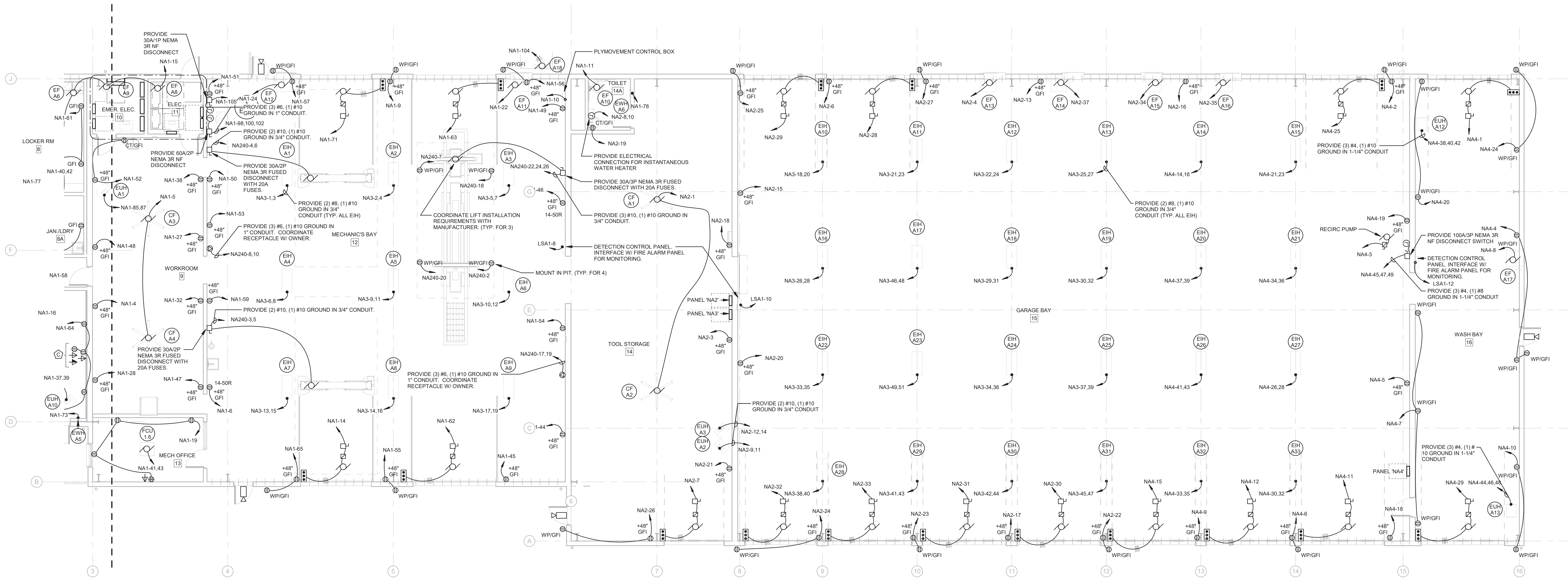


Drawing Title:

FIRST FLOOR PLAN -
BUILDING A - POWER

Drawing Number:

E201



2 FIRST FLOOR PLAN - BUILDING A - AREA 2 - POWER

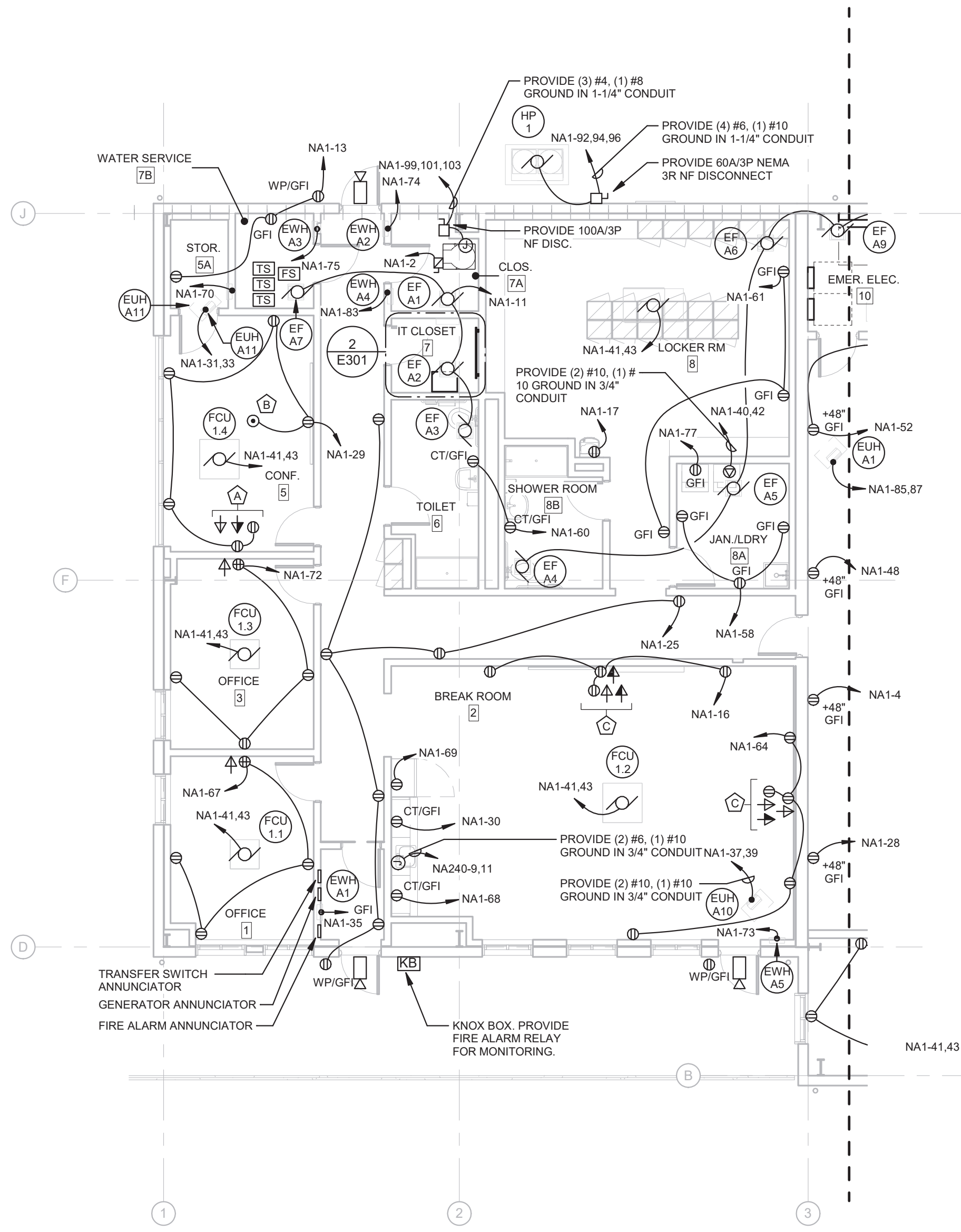
E201 SCALE: 1/8" = 1'-0"

CODED POWER NOTES:

- A PROVIDE (1) DUPLEX RECEPTACLE, (1) HDMI OUTPUT, AND (2) DATA DROPS BEHIND WALL MOUNTED TELEVISION. PROVIDE 1-1/2" CONDUIT WITH KRAMER HDMI CABLE CAT6P-HMMETH BETWEEN INPUT AND OUTPUT COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- B PROVIDE (2) DUPLEX RECEPTACLES, (2) DATA DROPS, AND (1) HDMI INPUT FOR TELEVISION IN WIREMOLD EVOLUTION 8-GANG EFB8 FLOOR BOX.
- C PROVIDE (1) DUPLEX RECEPTACLE, (1) HDMI OUTPUT, AND (2) DATA DROPS BEHIND WALL MOUNTED TELEVISION. PROVIDE DUPLEX RECEPTACLE AND HDMI INPUT AT 18" AFF. PROVIDE 1-1/2" CONDUIT WITH KRAMER HDMI CABLE CAT6P-HMMETH BETWEEN INPUT AND OUTPUT. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.

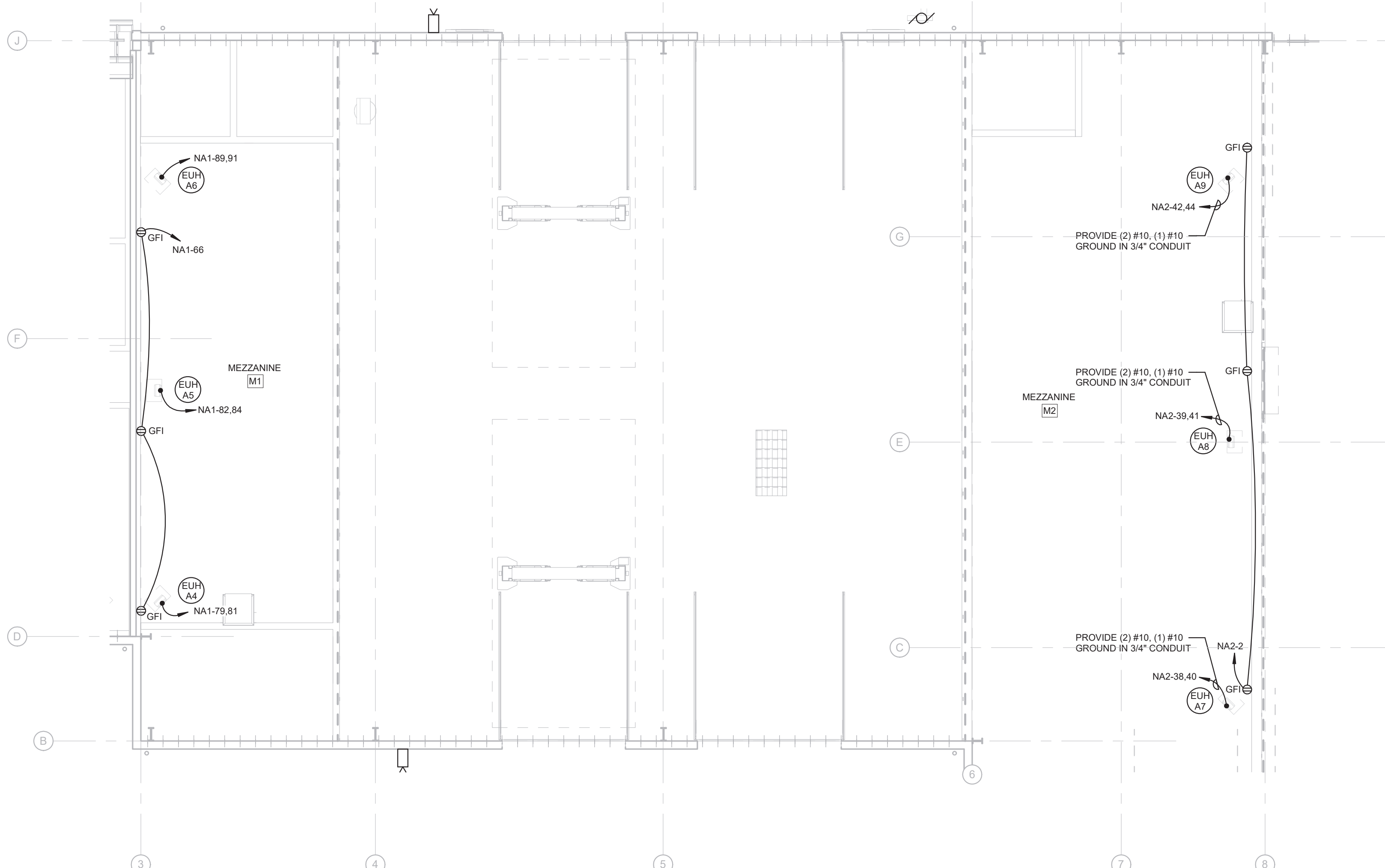
GENERAL POWER NOTES:

- REFER TO E000 FOR LEGEND AND GENERAL NOTES.
- E.C. SHALL REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGHING IN.



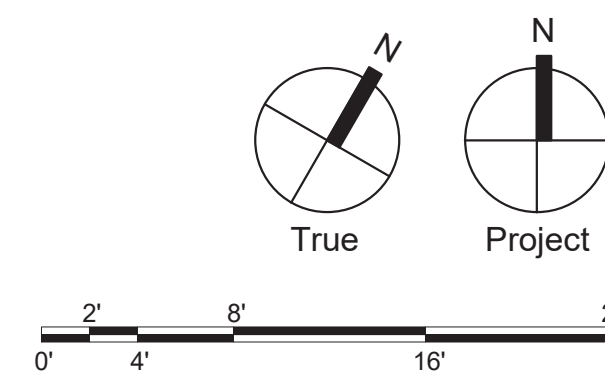
1 FIRST FLOOR PLAN - BUILDING A - AREA 1 - POWER

E201 SCALE: 1/8" = 1'-0"



3 MEZZANINE PLAN - BUILDING A - POWER

E201 SCALE: 1/8" = 1'-0"



Civil

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484-880-7342

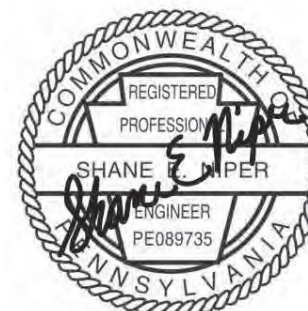
MEP

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Professional Seal



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

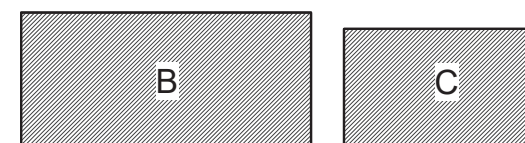
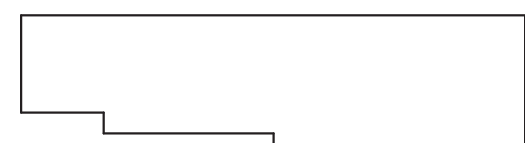
WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

ISSUED FOR:

DATE:	07/05/2023
SG PROJECT NUMBER:	21-037

Key Plan:

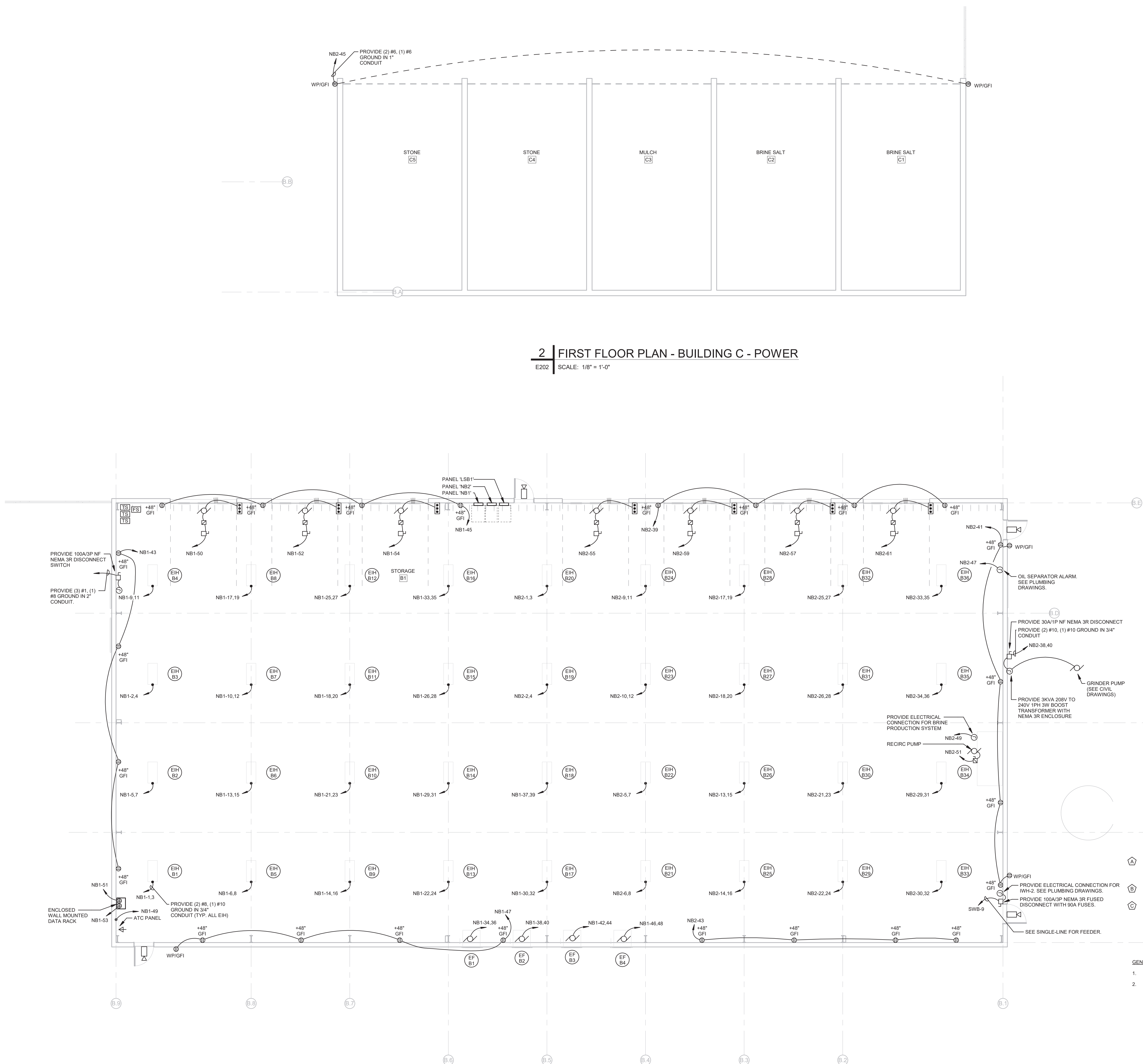


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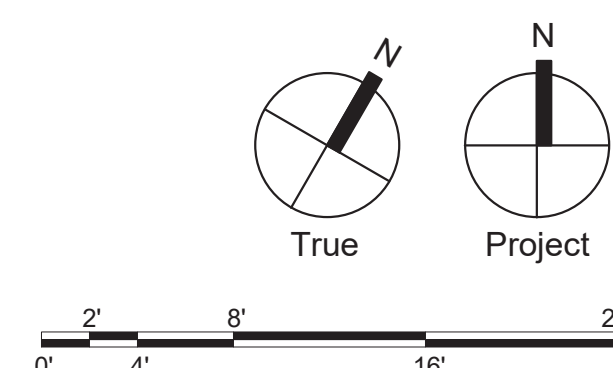
FIRST FLOOR PLAN -
BUILDING B & C - POWER

Drawing Number:

E202



E202 SCALE: 1/8" = 1'-0"



Civil

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Professional Seal



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

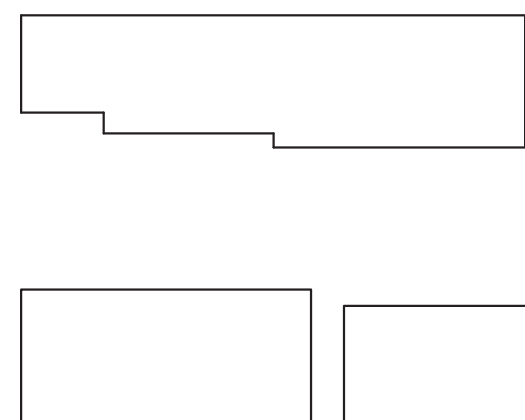
ISSUED FOR:

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan

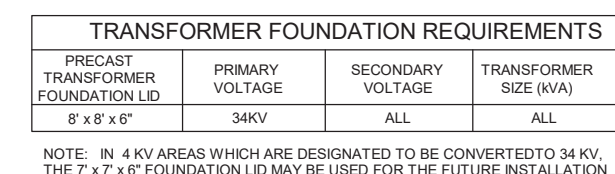


Drawing Title:

DETAILS AND DIAGRAMS - ELECTRICAL

Drawing Number:

E501



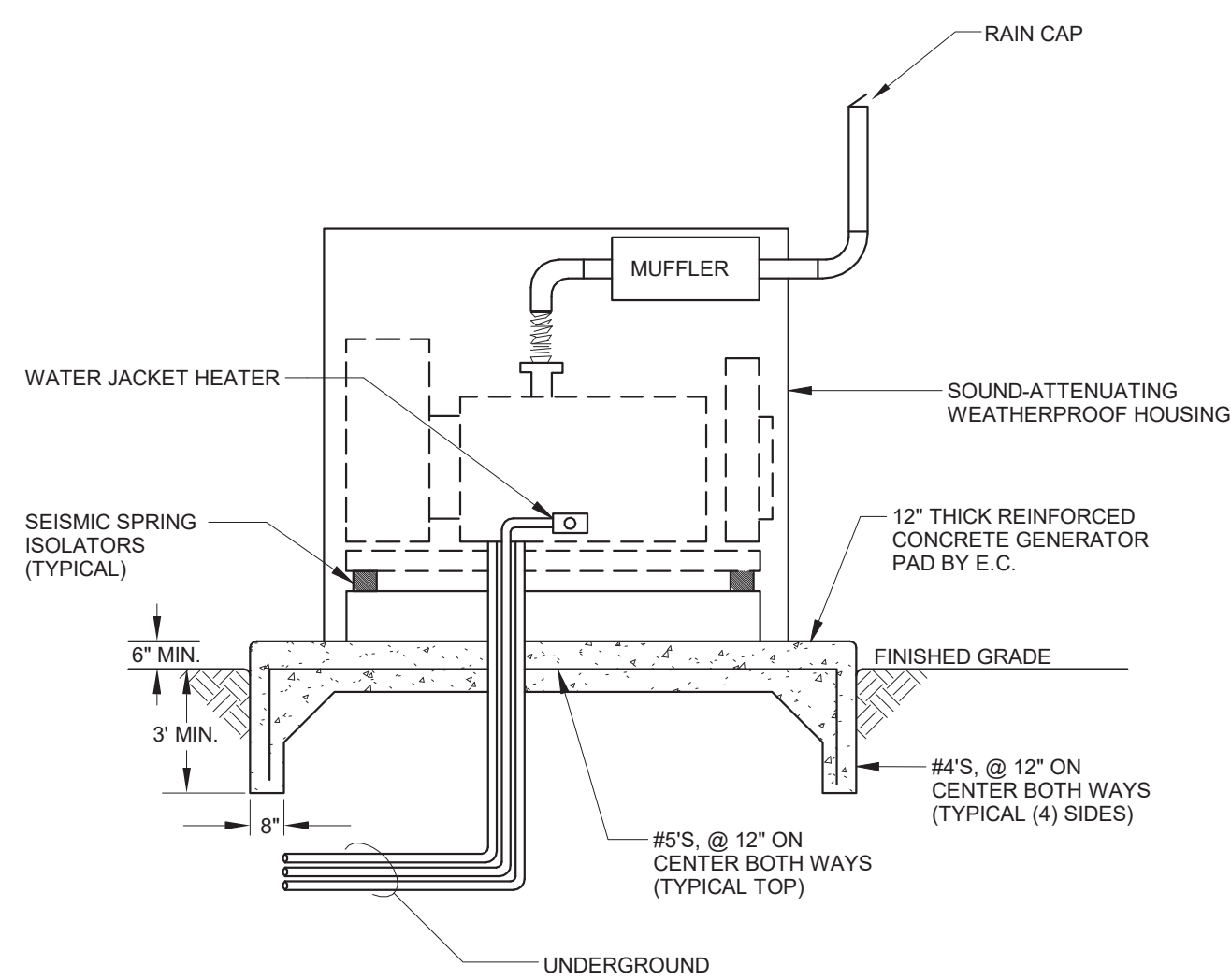
BILL OF MATERIAL		
ITEM	DESCRIPTION	QUANTITY
1	139-84515 PRECAST TRANSFORMER FOUNDATION WITH 8' x 10' TOP	1
2	138-55527 ROD, GROUND, 1/2" x 8"	1
3	132-14608 CLAMP, GROUND ROD	1
4	135-76855 WIRE, #4 SOLID COPPER, BARE	65'
5	132-14606 CONNECTOR, TAP, WIRE TYPE, #4 SOLID COPPER	1
6	* METERING DUCT, METALLIC, 1-1/2" MINIMUM I.D.	*
7	* BUSHING INSULATED * AS REQUIRED FOR 480V/277V * LOW VOLTAGE RATINGS ONLY * SUPPLIED BY CUSTOMER	*
8	* GROUNDING BUSHING FOR METERING CONDUIT	*

NOTE

- (A) SET PRECAST TRANSFORMER FOUNDATION ON CRUSHED STONE. MINIMUM EXCAVATION IS 6' x 8' x 5' DEEP.
- (B) INSTALL GUARD POSTS WHEN TRANSFORMER IS SUBJECT TO DAMAGE BY VEHICLES. USE 4" GALVANIZED STEEL PIPE FILLED WITH CONCRETE, SET IN 15" DIAMETER CONCRETE 3' DEEP. PIPE TO EXTEND 4' ABOVE FINAL GRADE.
- (C) INSTALL 4" BARE COPPER FOR GROUNDING, PROVIDE 12" TO 18" COVER. EXTEND TO GROUND (ITEM 7) AND 20 COPPER WIRE EXTENDING THROUGH WALL OF PRECAST TRANSFORMER FOUNDATION.
- (D) INSTALL WITH TOP APPROXIMATELY 3' ABOVE GRADE.
- (E) ENTERING METERING CONDUIT 6" ABOVE VAULT LID IN FRONT RIGHT CORNER OF VAULT OPENING.

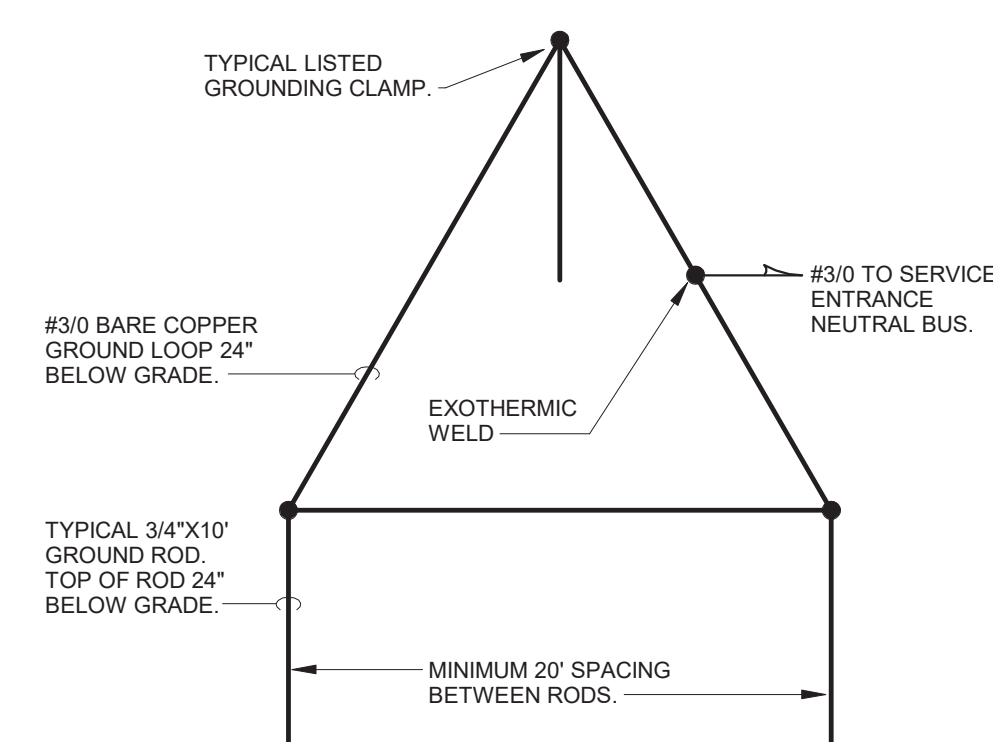
4 | TRANSFORMER VAULT DETAIL

E501	SCALE: NO SCALE
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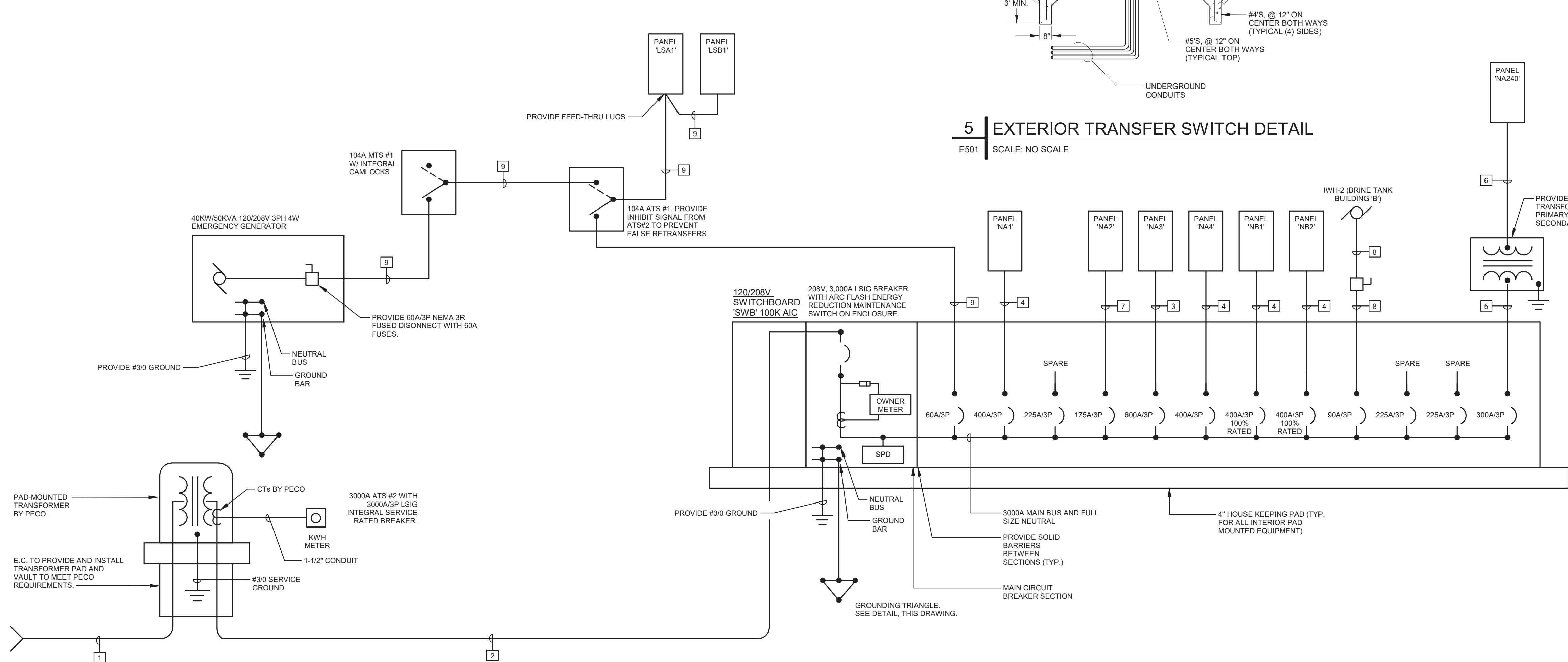
3 | GENERATOR INSTALLATION DETAIL

E501	SCALE: NO SCALE
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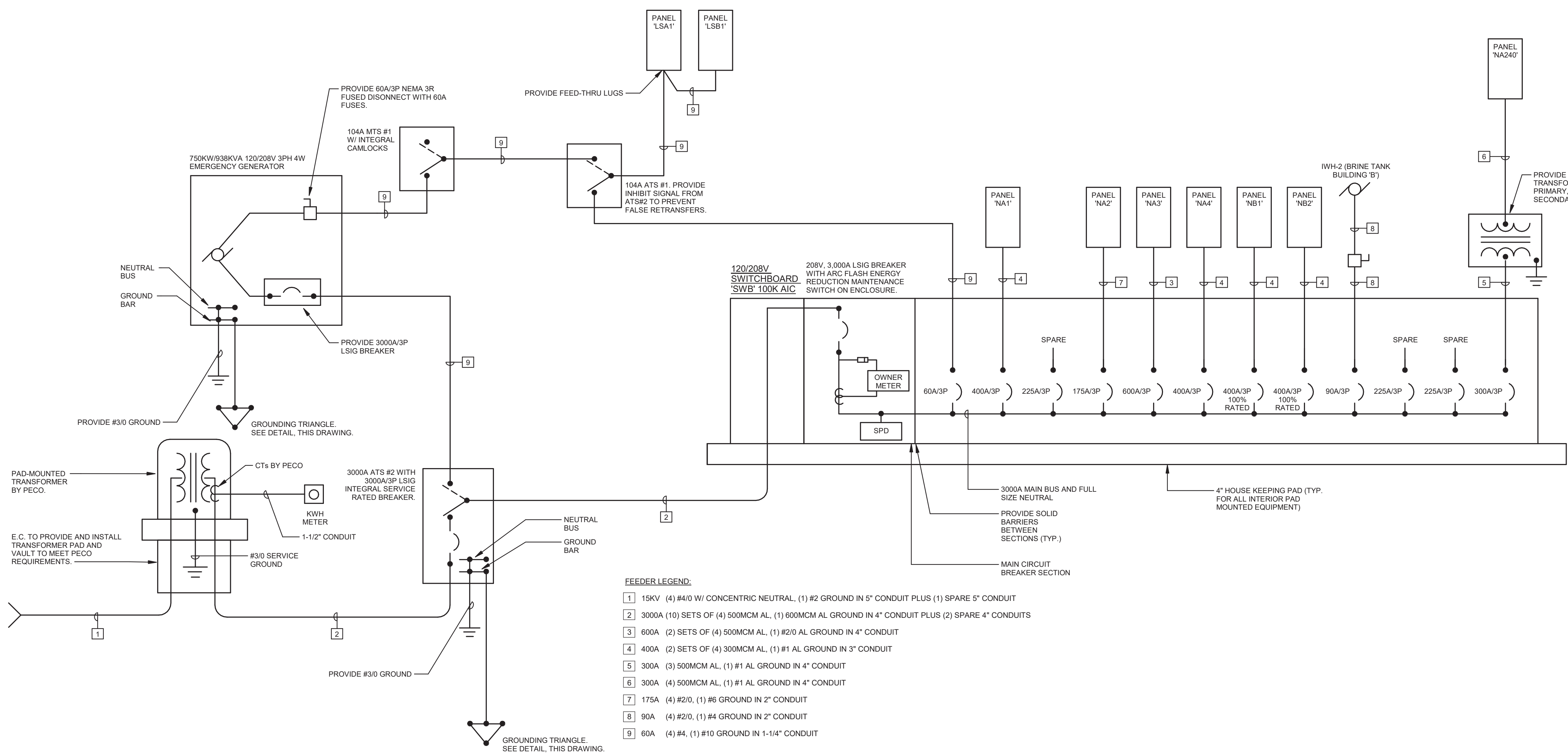
2 | GROUNDING TRIANGLE DETAIL

E501	SCALE: NO SCALE
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6 | SINGLE-LINE DIAGRAM - ELECTRICAL (ALTERNATE)

E501	SCALE: NO SCALE
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1 | SINGLE-LINE DIAGRAM - ELECTRICAL

E501	SCALE: NO SCALE
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Civil

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REGISTERED PROFESSIONAL ENGINEER
SHANE E. MILLER
PENNSYLVANIA
PE089735

West Whiteland Township

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EXTON PA 19341

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

DETAILS AND DIAGRAMS - ELECTRICAL

Drawing Number:

E502



Drawing Number:

Location: ELEC. 11	Volts: 120/208 Wye	A.I.C. Rating: 22000
Supply From: SWB	Phases: 3	Mains Type: MLO
Mounting: Surface	Wires: 4	Mains Rating: 400 A
Enclosure: Type 1		MCB Rating:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
HVAC	1311 VA	100.00%	1311 VA	
Heating	49450 VA	100.00%	49450 VA	Total Conn. Load: 119087 VA
Lighting	4759 VA	100.00%	4759 VA	Total Est. Demand: 110327 VA
Motor	6820 VA	100.00%	6820 VA	Total Conn. Current: 331 A
Other	28867 VA	100.00%	28867 VA	Total Est. Demand: 306 A
Receptacle	27520 VA	68.17%	18760 VA	
Branch Panel: NA3	360 VA	100.00%	360 VA	

Location: TOOL STORAGE 14	Volts: 120/208 Wye	A/C Rating: 22000
Backfeed: Rated Copper Buses, Equipment Ground Bars and Isolated Ground Bar (where Required)	Phases: 3	Main Type: MLO
Supply From: SWB	Wires: 4	Main Rating: 600 A
SPD: 120/208 V Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 50A/30 Breaker		MCB Rating:
Manufacturer: Equipment Manufacturer		
Enclosure: Type 1		

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Heating	150000 VA	100.00%	150000 VA		
				Total Conn. Load:	150000 VA
				Total Est. Demand:	150000 VA
				Total Conn. Current:	416 A
				Total Est. Demand...	416 A

Location: TOOL STORAGE 14	Volts: 120/208 Wye	A.I.C. Rating: 220k
Supply From: SWB	Phases: 3	Mains Type: MLC
Mounting: Surface	Wires: 4	Mains Rating: 225
Enclosure: Type 1		MCB Rating:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Heating	25000 VA	100.00%	25000 VA	
Lighting	959 VA	100.00%	959 VA	Total Conn. Load: 43513 VA
Motor	858 VA	100.00%	858 VA	Total Est. Demand: 43513 VA
Other	5000 VA	100.00%	5000 VA	Total Conn. Current: 121 A
Receptacle	4500 VA	100.00%	4500 VA	Total Est. Demand... 121 A

Location: GARAGE BAY 15	Volts: 120/208 Wye	A.I.C. Rating: 220k
Supply From: SWB	Phases: 3	Mains Type: MLC
Mounting: Surface	Wires: 4	Mains Rating: 400
Enclosure: Type 1		MCB Rating:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Heating	7800 VA	100.00%	7800 VA	
Lighting	3255 VA	100.00%	3255 VA	Total Conn. Load: 107322 VA
Motor	3627 VA	100.00%	3627 VA	Total Est. Demand: 107322 VA
Other	18840 VA	100.00%	18840 VA	Total Conn. Current: 298 A
Receptacle	3600 VA	100.00%	3600 VA	Total Est. Demand...: 298 A

Location: ELEC. 11	Volts: 120/240V High Leg	A.I.C. Rating: 100
Supply From: T1	Phases: 3	Mains Type: MCB
Mounting: Surface	Wires: 4	Mains Rating: 400
Enclosure: Type 1		MCB Rating: 300

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
				Total Conn. Load:	58092 VA
				Total Est. Demand:	54412 VA
				Total Conn. Current:	140 A
				Total Est. Demand...	131 A

MEP:
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Bethlehem, PA 18018
610-694-8020

Structural:
SchraderGroup Architecture
153 East King Street, Suite 211-212
Lancaster, PA 17602
717-299-8965

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
SHANE E. MILLER
ENGINEER
PE089735

101 Commerce Drive
Exton, PA 19341


New Construction of:

**WEST WHITELAND PUBLIC
WORKS FACILITY**

**121 VALLEY CREEK BOULEVARD,
EXTON PA 19341**

ISSUED FOR:		
NO.	DESCRIPTION	DATE
	100% CONSTRUCTION DOCUMENTS	05/30/2023
	BID DOCUMENTS	07/05/2023

SG PROJECT NUMBER: 21-037



SCHEDULES -
ELECTRICAL

E601

Civil

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484-880-7342

MEP

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1005 West Lehigh Street
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Structural

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Professional Seal



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

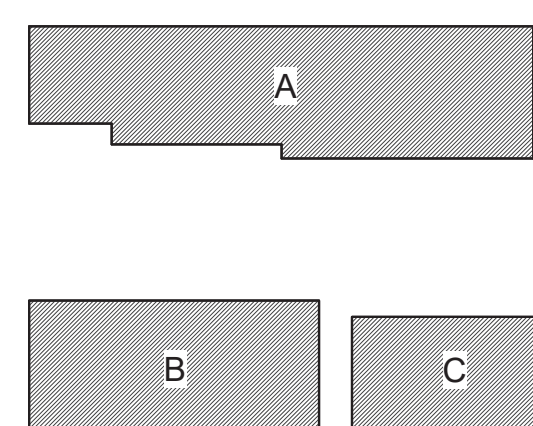
ISSUED FOR:

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:



Drawing Title:

SITE PLAN - POWER

Drawing Number:

SE101

NOTES

A DUCT SYSTEM WHICH CROSSES OVER OR UNDER EXISTING UNDERGROUND FACILITIES MUST HAVE THE FOLLOWING MINIMUM CLEARANCE:

TELEPHONE	3 INCHES OF CONCRETE OR 12 INCHES OF EARTH
GAS AND WATER MAINS	12 INCHES OF EARTH
SEWERS	12 INCHES OF EARTH
STEAM LINES	6 FEET OF EARTH (CAN BE REDUCED IF DUCT SYSTEM IS PROPERLY INSULATED)

*** IF THESE CLEARANCES CANNOT BE OBTAINED,
INFORM THE PPL EU ENGINEER PRIOR TO CONSTRUCTION**

WHEN APPROVED BY PECO, NEW ELECTRIC AND COMMUNICATION CONCRETE ENCASED DUCTS MAY BE INSTALLED IN A JOINT TRENCH (SEE FIGURE 1). A MINIMUM OF 12 INCHES MUST BE MAINTAINED BETWEEN FACILITIES. A 4 INCH SOLID BARRIER SHALL BE CENTRALLY PLACED BETWEEN THE FACILITIES TO CREATE A DISTINCT SEPARATION. THE BARRIER SHALL EXTEND A MINIMUM OF 4 INCHES ABOVE THE TOP OF THE CONCRETE ENCASED DUCT PACK.

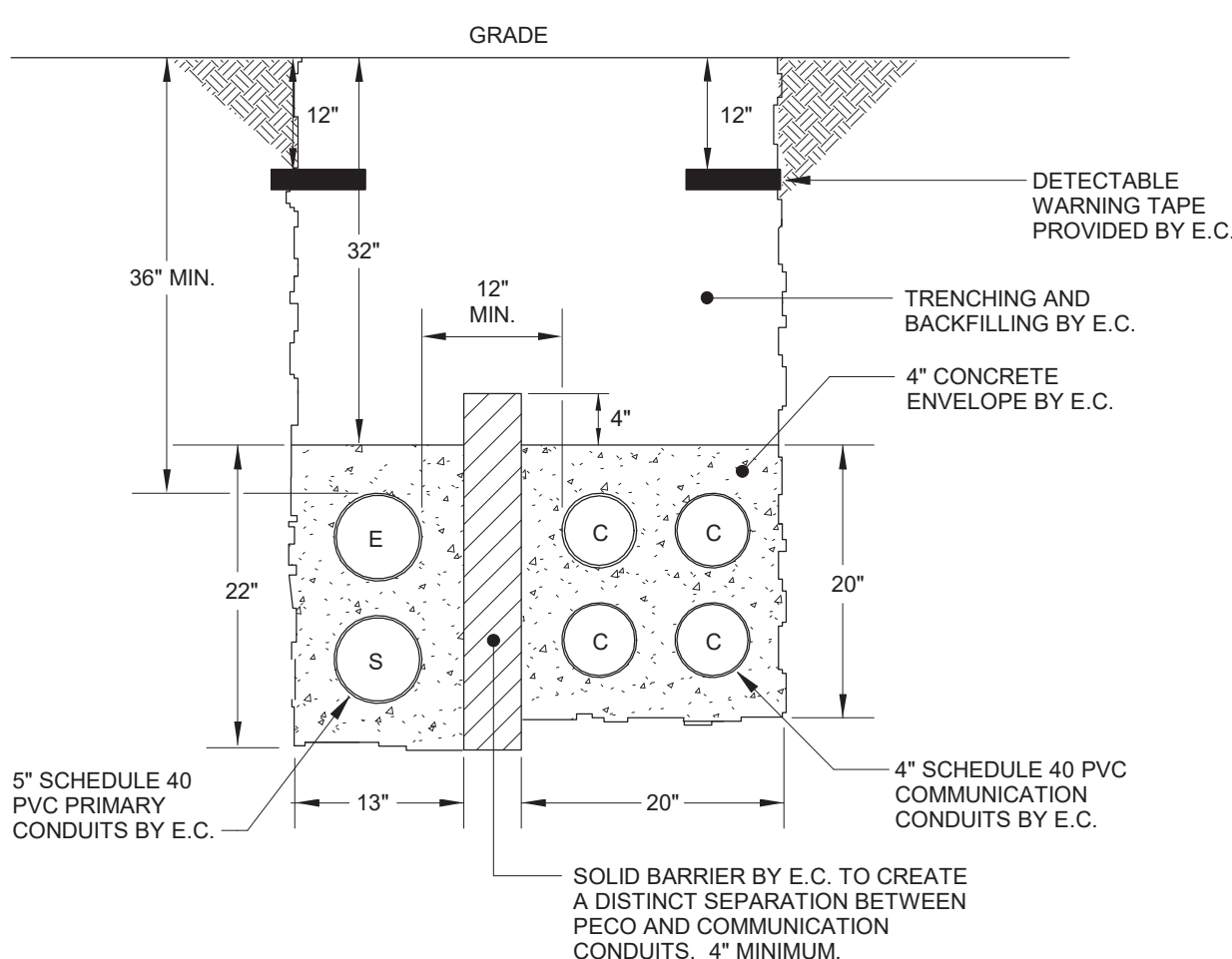
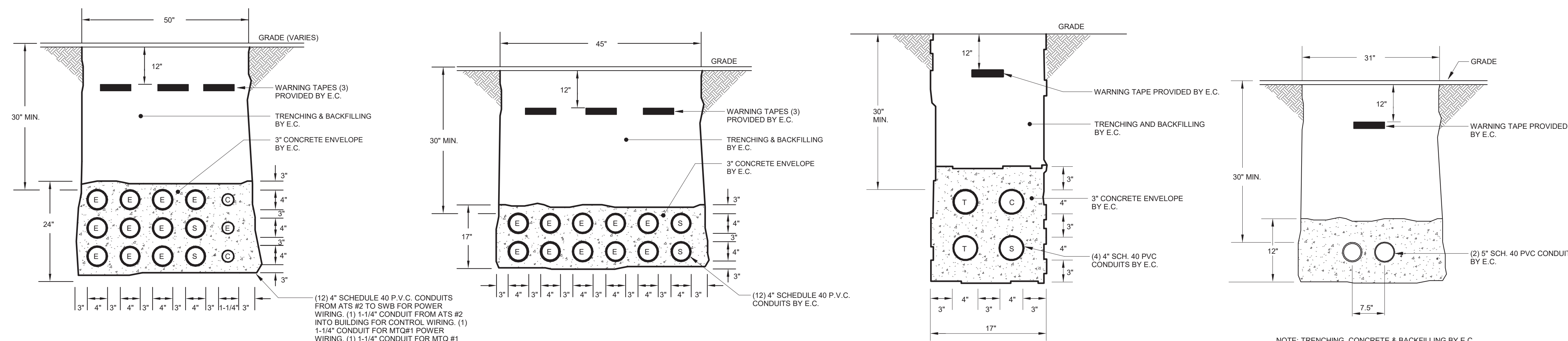
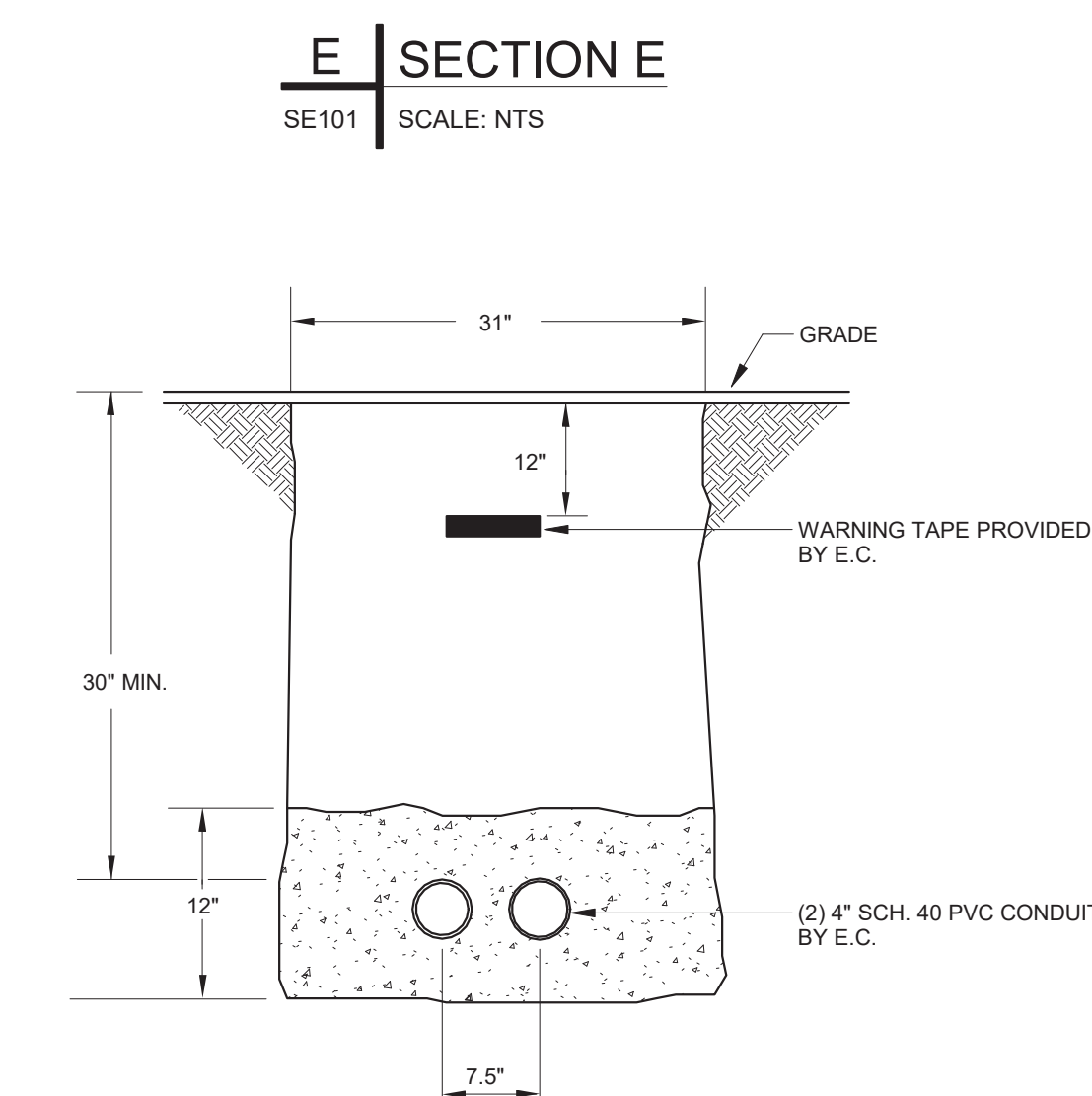


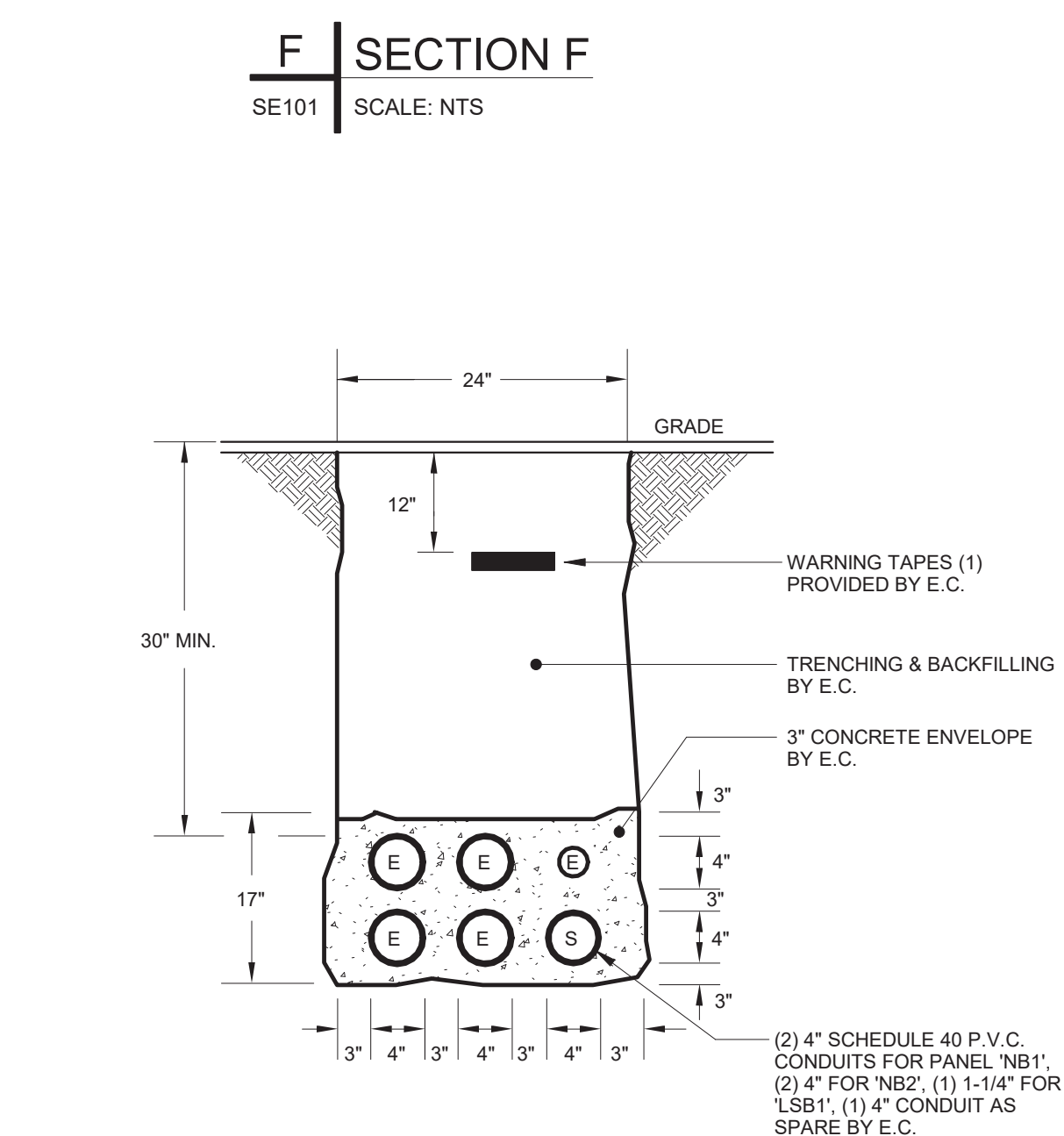
FIGURE 1



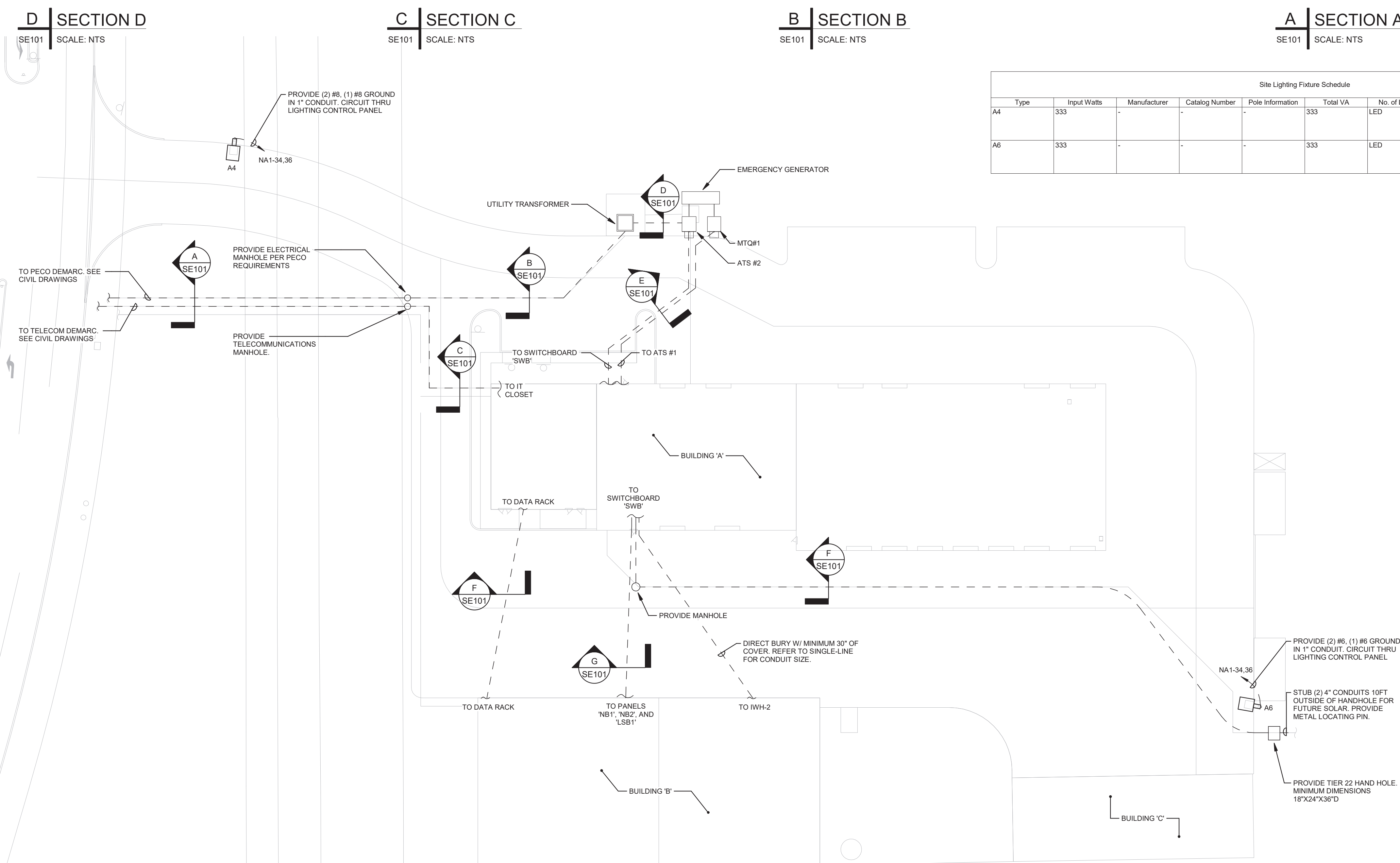
NOTE: TRENCHING, CONCRETE & BACKFILLING BY E.C.



NOTE: TRENCHING, CONCRETE & BACKFILLING BY E.C

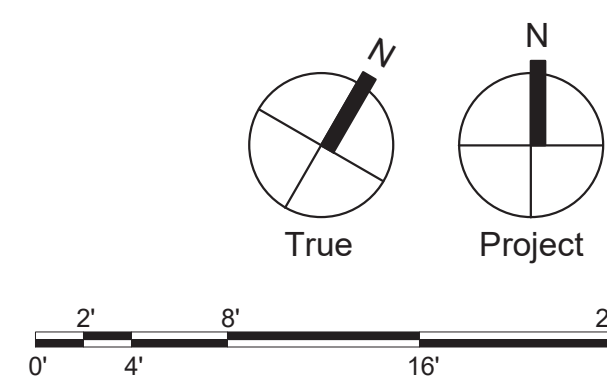


G	SECTION G
SE101	SCALE: NTS



GENERAL SITE NOTES

1. REFER TO E000 FOR LEGEND AND GENERAL NOTES.
2. REFER TO CIVIL DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION.
3. MINIMUM CONDUCTOR SIZE SHALL BE (2) #10, (1) #10 GROUND IN 1" CONDUIT A MINIMUM 24" BELOW FINISHED GRADE.
4. PROVIDE A PA ONE-CALL PRIOR TO CONDUCTING ANY SITE WORK.



1 | SITE PLAN - ELECTRICAL

SE101	SCALE: 1" = 30'-0"
-------	--------------------

Civil:

MEP

Structural.

Professional Seal



101 Commerce Drive
Exton, PA 19341

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COVER SHEET -
PLUMBING

P000

WATER & GAS PIPING

AS	Acid Sanitary (Below Slab/Grade)
AV	Acid Vent
AW	Acid Waste (Above Slab/Grade)
CD	Condensate Drain
ERW	Emergency Rainwater
FM	Forced Main/Pumped Drain
GW	Grease Waste
GSAN	Grease Sanitary (Below Slab/Grade)
SAN	Sanitary (Below Slab/Grade)
ST	Storm (Below Slab/Grade)
REP	Radon Evacuation Piping
RW	Rain Water (Above Slab/Grade)
V	Vent
W	Waste (Above Slab/Grade)

DESIGN CODE REFERENCES

REFERENCED DESIGN STANDARDS

NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA 13	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS
NFPA 99	NATIONAL FIRE PROTECTION ASSOCIATION - HEALTH CARE FACILITIES CODE: 2015 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.
NFPA 101	NATIONAL FIRE PROTECTION ASSOCIATION - CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES: 2015 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS

PLUMBING GENERAL NOTES	
1.	Provide all labor, material, and equipment required for the completion and operation of all systems specified within the Division 22 specifications. Drawings shall be coordinated with all applicable codes including but not limited to PA Uniform Construction Code (PA-UCC), International Plumbing Code (IPC), ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities, International Building Code (IBC), International Fuel Gas Code (IFGC). Verify the latest adopted code editions and any additional adopted amendments with the Local Authority Having Jurisdiction (LAHJ) prior to beginning work.
2.	Coordinate connection of all Water, Sewer, and Gas utility services with the associated Utility provider. Coordination includes but is not limited to: pre-installation verification of all required connection/valving details, arrangements and performing of all required tests and inspections, supports/base pads for meter installation, and final service activation.
3.	Provide a complete domestic water, gas and waste/water systems to all fixtures and or equipment requiring such. verify all rough-in locations and provide all plumbing locations with work under other divisions of the specifications to avoid conflicts.
4.	Provide all plumbing fixtures and appliances complete with all required supplies, stops, valves, faucets, drains, traps, tail pieces, escutcheons, etc. All fixture traps shall be semi-rigid style, removable and/or provided with access for clearance. All stops and shutoff valves shall be quarter turn style and installed in a readily accessible locations.
5.	All plumbing fixtures, equipment, and materials shall be new and shall fit the space available. Verify dimensions at site are adequate prior to order of any materials.
6.	All piping, apparatus, equipment, etc. shall be properly supported, braced vertically and horizontally in accordance with applicable codes and as required to prevent excessive movement during normal service conditions.
7.	Do not scale the plans. See architectural plans for exact location of doors, windows, fixtures, wall dimensions, equipment devices, etc. Coordinate exact locations of fixtures, equipment, specialties, and piping in field prior to rough-in.
8.	All valves, cleanouts, plumbing specialties, etc., shall be so located and installed to permit access for service without damage to building or finished materials.
9.	In addition to cleanouts indicated on the plumbing drawings, provide cleanouts at base of all waste and rainwater stacks, at all changes in direction of piping in excess of 45 degrees and every 50 feet. Floor cleanouts shall be installed flush with finished floor. All cleanouts shall be installed to permit access for service without damage to building or finished materials, wall cleanouts shall be minimum 18" A.F.F. Wall cleanouts covers shall be stainless steel or where directed by architect provide primer painted steel coverplates to receive final painted finish, same as wall finish. (final paint by G.C.)
10.	All exposed supply and waste piping in rest room areas shall be min. 17 ga. thick or semi-rigid chrome plated brass, with matching stops and escutcheons.
11.	Drainage and vent piping systems, and water distribution piping systems shall be tested with air or water in accordance with IPC Section 312. Coordinate and schedule all required testing with local A.H.J. prior to testing.
12.	Sanitize domestic water piping in accordance with IPC requirements, Local Health Department, and American Water Works Association's (AWWA) specifications. Provide final reports and test results to Owner.
13.	All domestic water piping shall be hung level without pitch unless noted otherwise on plans.
14.	Protect copper piping against contact with dissimilar metals. All hangers, supports, anchors, and clips shall be copper or copper plated. Where copper piping is carried on iron trusses hangers with other piping, satisfactory and permanent electrical isolation material shall prevent contact with other metals.
15.	Protect copper piping against contact with all masonry. Where copper is sleeved through masonry, copper or red brass sleeves shall be used. Where copper must be concealed in or against masonry partitions, contact shall be prevented by coating the copper heavily with asphaltic enamel and #15 asphalt saturated felt between the pipe and the masonry partition.
16.	Install piping in areas not subject to freezing temperatures. Water piping in exterior walls shall be installed on conditioned side of exterior wall insulation.
17.	Provide shock absorbers, supplies and stops at each fixture as required by IPC and additionally as noted on the plans. Exposed stops shall be chrome plated.
18.	Provide drain valves at all low points of domestic water piping systems for complete drainage and indicate location of same on record drawings.
19.	Provide vacuum breakers as required by code.
20.	Vent all plumbing fixture drains in accordance with all applicable codes.
21.	Verify all fixture mounting heights with architectural interior elevations, schedules, etc. prior to fixture installation. Verify locations of Accessible fixtures and install in strict accordance with ICC/ANSI A117.1 requirements.
22.	"Provide sleeves at all wall/floor penetrations. Coordinate sleeves with GC for installation in wall/floor construction. In exposed areas provide chrome plated steel elbows at pipe penetrations. Seal all fire rated floor and wall penetrations with fire stopping materials as specified in the Div. 7 specifications. Where firestopping materials are not specified in Div. 7, provide firestopping materials U.L. listed for use and as manufactured by 3m or equal."
23.	Install ball style shutoff valves on the entire domestic water system. Ball valves shall be furnished with blowout proof stem, insulated external handles, and chrome plated ball.
24.	Insulate all domestic water piping as noted in Div. 22 specifications and in accordance with minimum thickness specified in IECC Section C404 and Table C403.1.3. Insulate all vertical and horizontal overhead slab rainwater and sewerage rainwater piping as noted in Div. 22 specifications.
25.	Seal all fixtures to walls, floor, counters, etc. using a sanitary-type one-part, mildew resistant, silicone sealant. match sealant color to fixture color.
26.	Install all underground sanitary/storm piping at 2% slope (unless noted otherwise).
27.	Install all above ground waste, rainwater, sewerage rainwater piping at 2% slope (unless noted otherwise).
28.	Install all above ground vent piping at 1% slope (unless noted otherwise).
29.	Install all above ceiling cleanouts in locations above accessible ceiling construction. Coordinate exact locations in field. No cleanouts shall be installed within plenum ceilings.
30.	Coordinate all equipment floor drain and floor sink locations with the work of all other trades and with associated equipment in field prior to rough in. Coordinate all general area floor drains with architectural plans and with G.C. in field prior to rough-in.
31.	Provide all floor drains with deep seal traps (unless noted otherwise) and trap seal protection.
32.	Install cleanouts to grade at all locations where storm and sanitary laterals exit building. Contractor shall coordinate required invert elevations with site contractor prior to installation, and make final connection to site Sanitary/Storm piping with all required fittings.
33.	Verify all "Accessible" toilet locations on Architectural plans. Installation of flusher lever actuator shall comply with ANSI A117.1 and shall be mounted on the accessible (wide) side of toilet areas no more than 44 inches above the finished floor. Coordinate rough-ins of all supplies, flush valves, sensors, etc., to avoid conflict with grab bars and other toilet accessories.
34.	All piping located in return air plenums shall conform to the flame spread and smoke developed limits of ASTM E84 or must be tested with U.L. and listed for use in plenums.
35.	In finished spaces with exposed structure, provide and install 1" thick "fiberglass insulation with all-service jacket" in lieu of insulation specified. Prep and paint pipe insulation in color selected by Architect.
36.	All fixture trim, including faucets, strainers, escutcheons, stops, waste traps, visible waste piping or visible hangers shall be made of brass and shall be polished chrome plated. Plastic, zinc or white metal will not be acceptable.
37.	Install all exposed horizontal and vertical piping in a neat arrangement in locations which are the most inconspicuous. Vertical drops shall be coordinated and run within chases, walls, soffits with other mechanical / electrical feeds. All such locations are to be reviewed by the Owner representative and Architect prior to installation.
38.	Provide domestic water heater temperature / pressure relief valves with discharge piped full size to the nearest approved floor drain or waste receptor.
39.	Provide flexible expansion joints in piping systems at all locations where piping crosses horizontal / vertical building expansion joints. Refer joints to specifications for expansion joint information and refer to architectural draws. for horizontal / vertical expansion joint locations.
40.	At all locations where indirect/special waste connections are indicated or called for by the plumbing drawings, the installation of such connections shall be in strict compliance with IPC Chapter 8.
41.	All rainwater and sanitary waste piping drops to below grade within the building shall start at minimum (-) 10" below finished floor elevation with the first above connection below bottom of floor slab (unless noted otherwise). Where floor cleanouts are provided minimum starting pipe elevation shall be (-) 16" (unless noted otherwise).
42.	Provide thermal expansion control equipment/specialties on all segments of hot water and hot water return piping between 50F, and at intervals not to exceed 100ft. Thermal expansion control equipment shall include pipe anchors, pipe guides, and expansion loops. Expansion loops shall be provided as specified and verified by manufacturer's calculation to be adequate to accommodate thermal expansion of the applicable piping system.
43.	All piping penetrations through exterior wall shall be sealed weathertight. Piping penetrations through foundation walls shall be sleeved and provided with Link Seal Thrudrunner annular space sealings.
44.	Provide emergency eyewash EEWY-1 (emergency tempering valve, and cold water hose bibb connection with all accessories) supply piping at all MFG. shop receptor locations. For additional information refer to "Mop Receptor and Accessories Detail" on plumbing drawings. Coordinate exact location of accessories in field with owner representative prior to rough in of accessories/fixtures.
45.	All piping drops to fixtures, shall be concealed within wall or chase construction, unless noted otherwise.

Civ.

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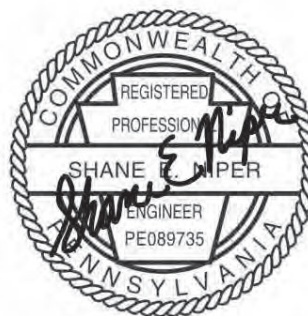
MEP

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Structural.

SchraderGroup Architecture
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Professional Seal:



Owner:

West Whiteland Township

101 Commerce Drive
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WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

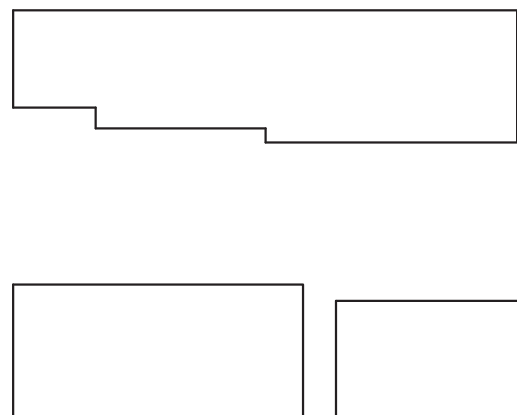
ISSUED FOR:

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DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:



Drawing Title:

FIXTURE LIST - PLUMBING

Drawing Number:

P001

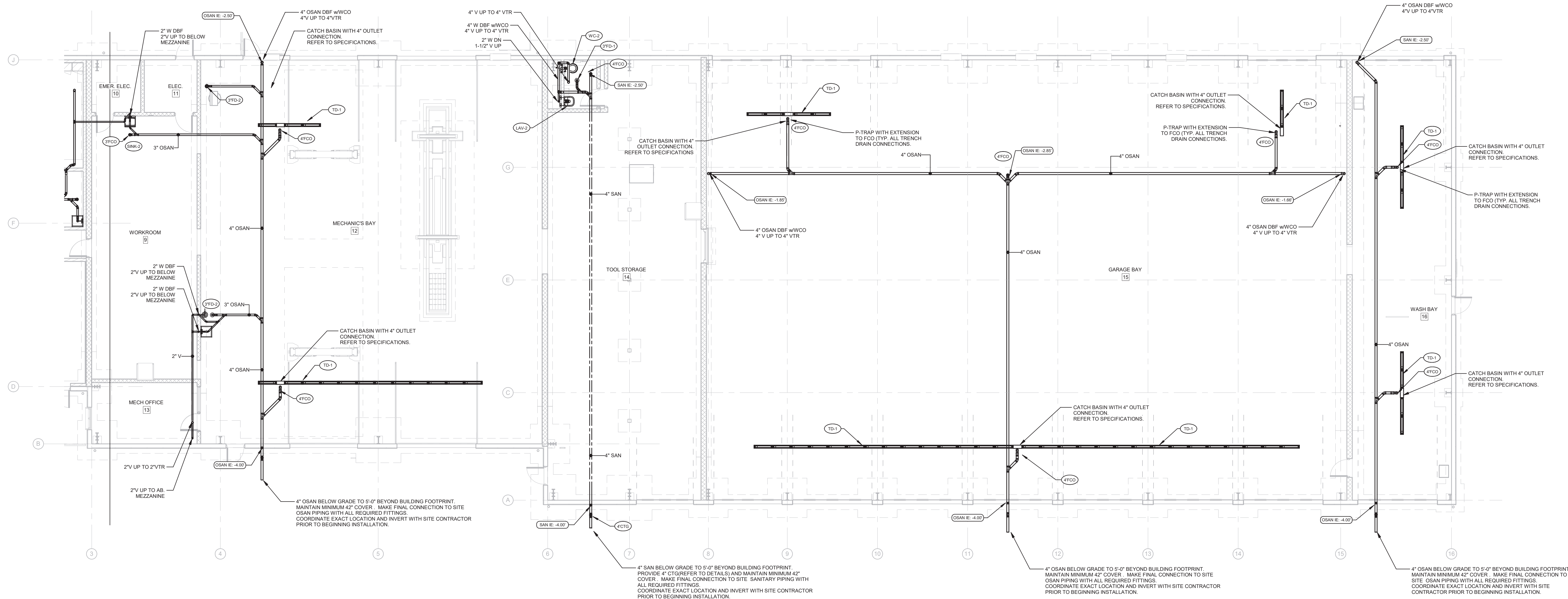
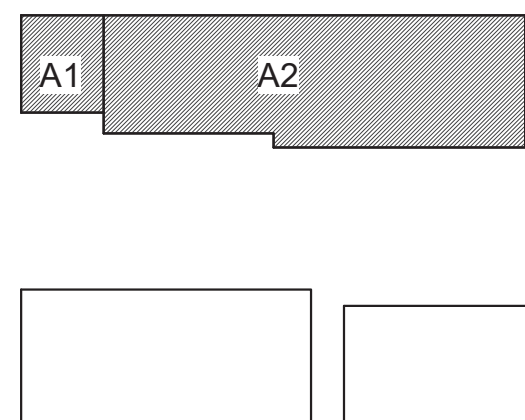
PLUMBING FIXTURE LIST					
*****Note: Refer to Specification Sections 22 1006 and 22 4400 for complete plumbing fixture and specialties specifications.*****					
FIXTURE TAG	FIXTURE DESCRIPTION	FIXTURE SPECIFICATIONS	DRAIN ROUGH IN CONNECTION	WATER ROUGH IN CONNECTION	
				HOT	COLD
AWC-1	Automatic Washer Connection Box	Automatic Washer Box -2" Drain -Chrome Plated Quarter Turn Shut-off Valves with Water Hammer Arrestors Basis of Design: IPS/Waterite Model W2700HA	2"	1/2"	1/2"
EEW-1	Emergency Eye Wash/ Drench Hose	Emergency Eye Wash/Drench Hose -Eyewash/drench hose with wall mounting bracket, ABS spray heads, Chrome plated ball valve with stay open handle. -Signage as required by ANSI Z358.1 -Emergency Thermostatic Mixing Valve, ASSE-1071 compliant Basis of Design: Guardian G5014BP	1-1/2"	1/2"	1/2"
EEW-2	Freeze Resistant Emergency Eye/Face Wash	Emergency Eye/Face Wash - Freeze Resistant Eye/Face wash with wall mounting bracket, ABS spray heads, Chrome plated ball valve with stay open handle. -Signage as required by ANSI Z358.1 -Emergency Thermostatic Mixing Valve, ASSE-1071 compliant Basis of Design: Guardian GFR1724	1-1/2"	1/2"	1/2"
ES-1	Emergency Eye Wash w/ Auxiliary Drench Hose	Emergency Eye/Face Wash w/Auxiliary Drench Hose -Eye/Face Wash with wall mounting bracket, ABS spray heads, Chrome plated ball valve with stay open handle. -Auxiliary drench hose with inline backflow preventer -Signage as required by ANSI Z358.1 -Emergency Thermostatic Mixing Valve, ASSE-1071 compliant Basis of Design: Guardian G1750-HS-BP	1-1/2"	1/2"	1/2"
EW-C-1	Bi-Level Electric Indoor Water Cooler w/ Bottle Filler	Electric Water Cooler with Bottle Filler, Bi-Level, Surface Mounted, Vandal Resistant - 18ga 304 Stainless Steel body panels, 16ga support arms steel body - Elevated anti-squirt chrome plated bubbler with mouthguard - Vandal resistant front push button operation - Bottle filler mounted in ABS alcove above lower bowl w/sensor operation and Green Ticker - Cane Touch Skirt (where required for compliance with ANSI A117.1) Basis of Design: Ekay Model LVRCGRNLTWSK- LKAPREZL - MLP200	1-1/2"	----	----
FCO-1	Floor Cleanout	Floor Cleanout - Cast iron body with flashing clamp - Twist to Floor adjustable Nickel Bronze top - Cover type coordinated with floor finish - Basis of Design: J.R. Smith 4000-4100 series	Refer to Plans	----	----
FD-1	Floor Drain General Purpose	Floor Drain - Cast iron body with flashing clamp - P" Nickel Bronze strainer - Deep Seal P-Trap w/ProSet Trap Guard seal protection. Basis of Design: J.R. Smith 2005 (6"NB Strainer)	Refer to Plans	----	----
FD-2	Floor Drain Garage Areas	Floor Drain - Cast iron body with flashing clamp - 8-1/2" Ductile Iron adjustable height "sure set" strainer with sediment bucket. - Deep Seal P-Trap w/ProSet Trap Guard seal protection. Basis of Design: J.R. Smith 2350-MBG	Refer to Plans	----	----
FD-3	Floor Drain Janitor Closets/ Mechanical closets	Floor Drain - Cast iron body with flashing clamp - 7" Nickel Bronze strainer - Deep Seal P-Trap w/ProSet Trap Guard seal protection. Basis of Design: J.R. Smith 2005 (7"NB Strainer)	Refer to Plans	----	----
LAV-1	Lavatory Wall Hung Manual Faucet (Toilet Rooms)	Basin: - Wall Hung, Vitreous China, ADA/ANSI A117.1 compliant Basis of Design: American Standard: Lucerne 0555.012 Faucet: - Chrome Plated Cast Brass, Manual single lever operated, with .5 gpm aerator. Basis of Design: Moen Commercial 8413F05 Carrier: - Dura-Coated Steel Stanchions with welded feet - Adjustable Supports with Plates & Mounting Bolts and Trim Basis of Design: Zurn Z1231 Accessories: - Below deck ASSE-1070 compliant mixing valve - TrueBowl Lav Guard supply and drain insulating covers. - Chrome plated, Lead Free, heavy duty, quarter" turn Loose Key Angle Stops - Chrome plated copper supplies	1-1/2"	1/2"	1/2"
MR-1	Mop Receptor with Utility Faucet & Emergency Eyewash	Base: - 36"x36"x12"H, Neo-Corner Terazzo mop receptor basin Basis of Design: Acorn TNC-36 Faucet: - Chrome finish, wall mounted utility faucet w/integral Vacuum Breaker, integral stops and check valves, 3/4 GHT outlet, Wrist blade handles, Wall brace, and pall hook. Basis of Design: Moen Commercial, Model 8124 / Chicago Faucets: 897CCP Accessories: - Quick connect drain fitting, (3) bracket Mop Hanger, 30" hose and hose bracket - Stainless Steel wall guards (Qty 3) - Emergency Eyewash/Drench Hose with Emergency Tempering Valve - Refer to detail for additional information.	3"	1/2"	1/2"
SH-1A	Shower ADA (ADA Showers)	Surround & Base: - Solid Surface finish w/molded fiberglass construction, 60"x30" ICC-ANSI A117.1 compliant, roll in type shower with integral front trench drain and 3/4" threshold, molded fiberglass construction - Included Accessories: ANSI A117.1 compliant wood grain phenolic fold up seat, ANSI A117.1 compliant grab bars 36" horizontal stainless steel grab bar on rear wall, 24" horizontal and 24" vertical stainless steel grab bar on side wall opposite seat, stainless steel curtain rod with mounting hardware Basis of Design: Comfort Designs SST 6238 TR.75 L-Bar-1 (Order left/Right hand orientation as shown on architectural drawings)	2"	1/2"	1/2"
SH-1	Shower (Standard Non-Accessible Showers)	Controls: - Chrome Plated ADA Showering valve system - T/P Thermostatic/Pressure Balancing shower valve complying with ASSE 1016, manual lever control - Diverter valve and Handshower complying with ANSI A117.1 Basis of Design: Chicago Model SH-TP1-00-021 w/763-CP diverter valve and trim and 600-CP fixed shower head			

NOTES:

1. P.C. shall coordinate all "Accessible" fixture locations with Architectural plans prior to rough in.
2. Refer to Architectural drawings for all fixture mounting heights.
3. At all "Accessible" water closet compartments, installation of flush controls shall comply with ANSI 117.1. Flush controls shall be mounted on the wide/accessible side of toilet compartments, no more than 44 inches above the floor. Where sensor operated flush controls are provided, the rough in of the flush control shall be opposite the wide/accessible side of the compartment to permit conversion to manual controls installed in accordance with the above requirements.
4. Provide deep seal trap and Proset Trapguard trap seal protection in all floor drains. Refer to plans for outlet size/trap size.

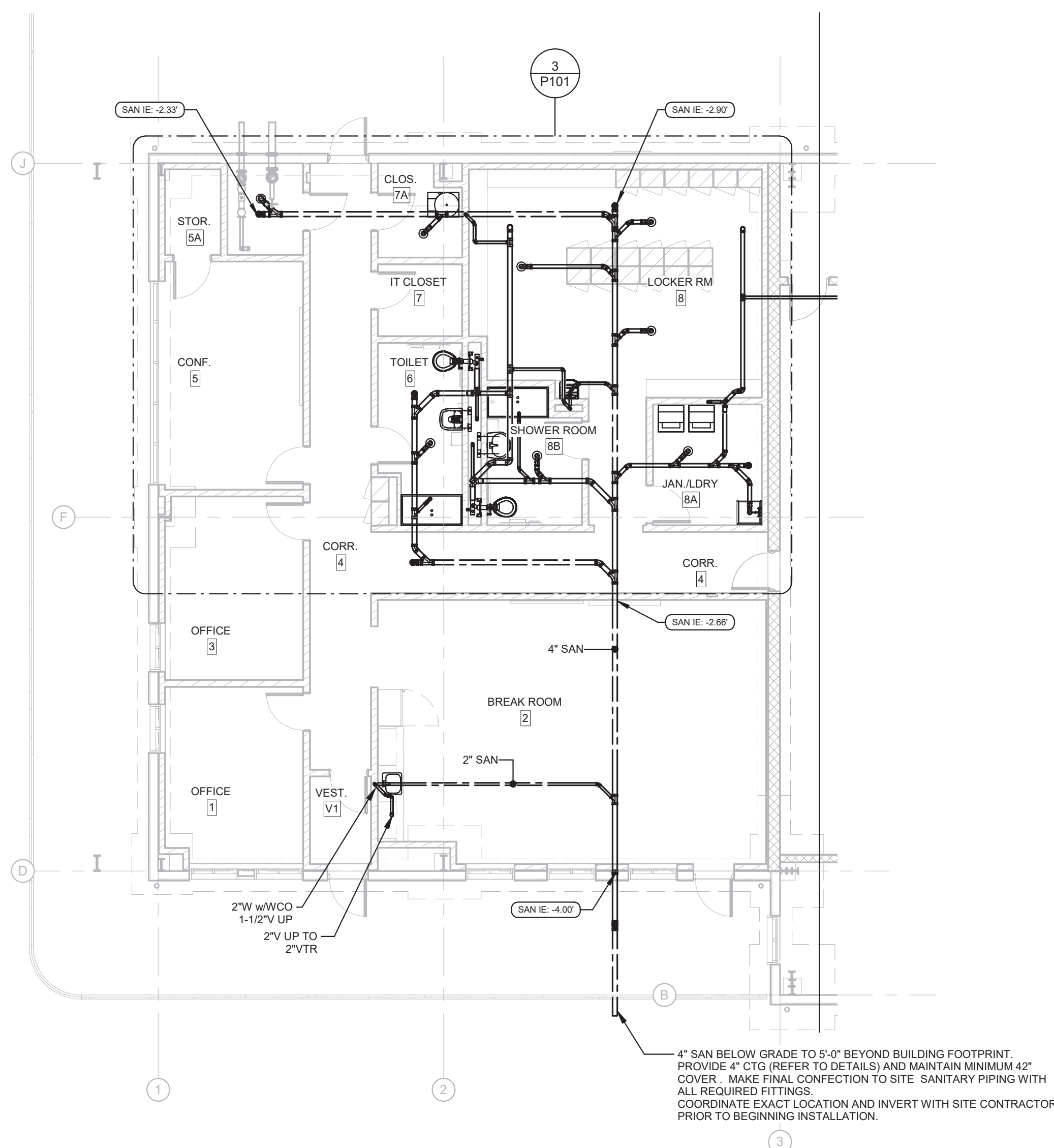


NO.	DESCRIPTION	DATE
100%	CONSTRUCTION DOCUMENTS	05/30/2023
	BID DOCUMENTS	07/05/2023



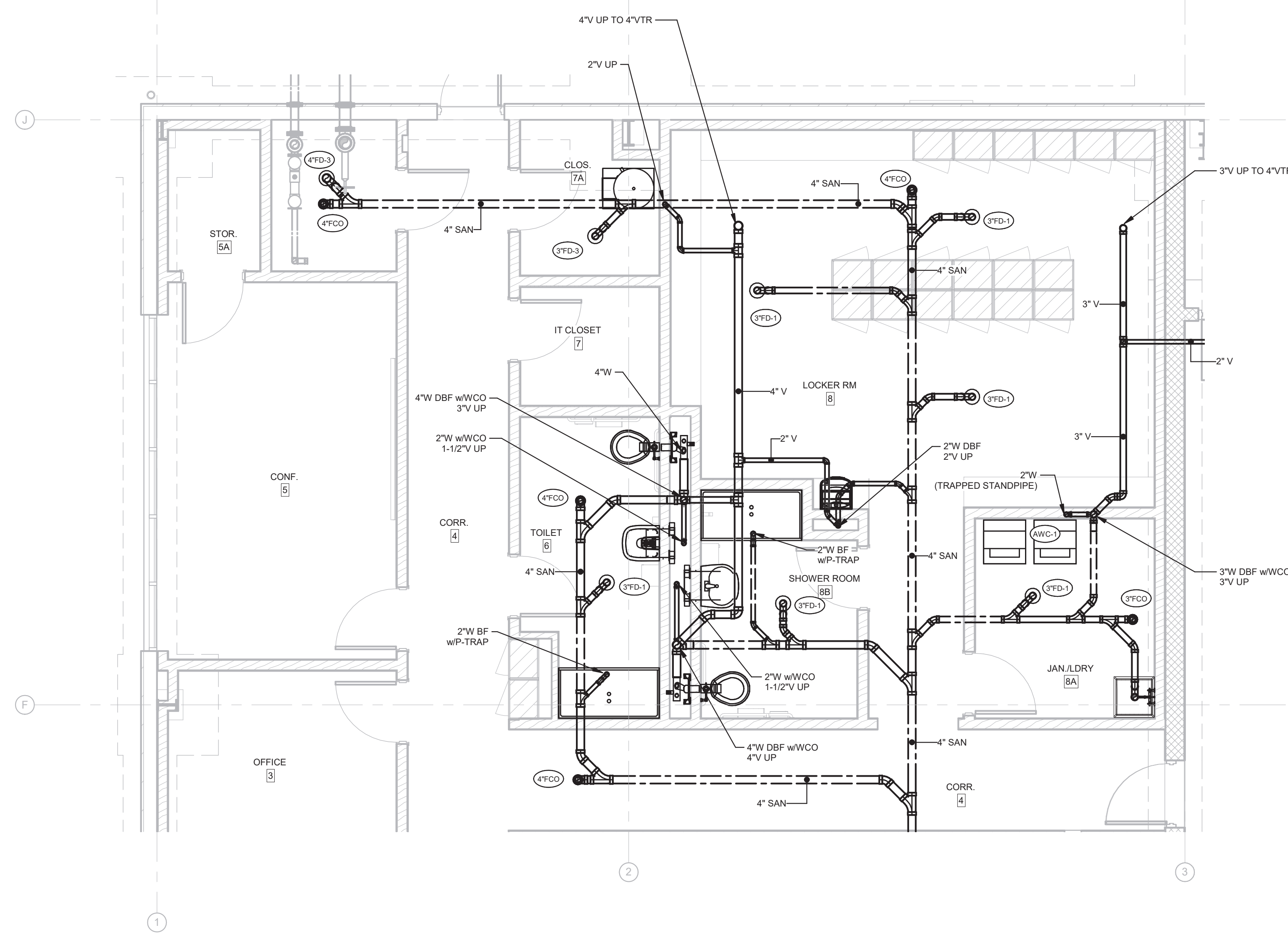
1 FIRST FLOOR PLAN - BUILDING A2 - DRAINAGE & VENT PIPING

P101 SCALE: 1/8" = 1'-0"



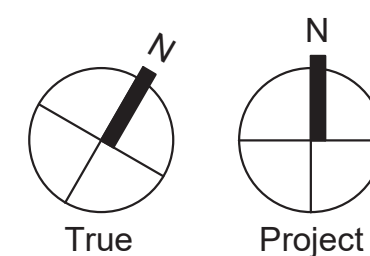
2 FIRST FLOOR PLAN - BUILDING A1 - DRAINAGE & VENT PIPING

P101 SCALE: 1/8" = 1'-0"



3 ENLARGED LOCKER ROOM PLAN - DRAINAGE & VENT PIPING

P101 SCALE: 1/4" = 1'-0"



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Snyder Hoffman

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610-694-8020

SchraderGroup Architecture

Lancaster, PA 17602
717-299-8965

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
SHANE E. PINNER
PE089735

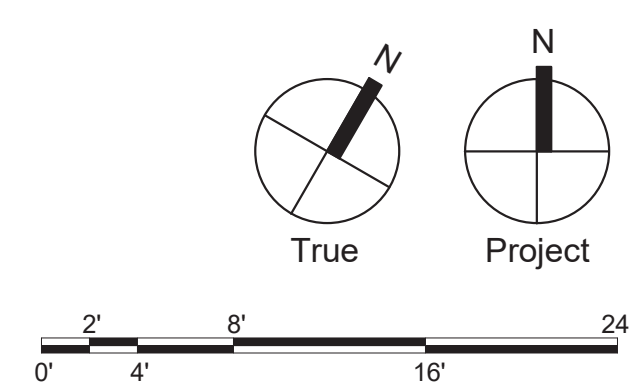
Exton, PA 19341

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

SG PROJECT NUMBER: 21-037

A diagram consisting of two adjacent squares. The left square is shaded with diagonal lines and contains the letter 'B'. The right square is white and empty.

P102



Consultants:
Civil:

JMR Engineering, LLC
106 Schubert Drive
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484-880-7342

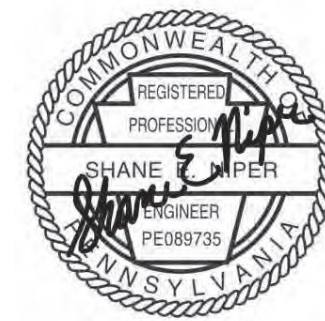
MEP:

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1005 West Lehigh Street
Bethlehem, PA 18018
610-694-8020

Structural:

SchraderGroup Architecture
153 East King Street, Suite 211-212
Lancaster, PA 17602
717-299-8965

Professional Seal:



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

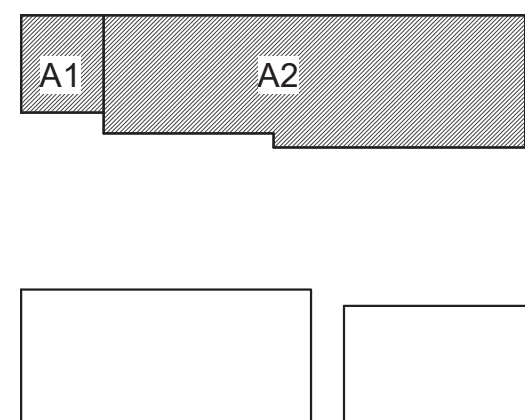
ISSUED FOR:

NO.	DESCRIPTION	DATE
1	100% CONSTRUCTION DOCUMENTS	05/30/2023
2	BID DOCUMENTS	07/05/2023

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

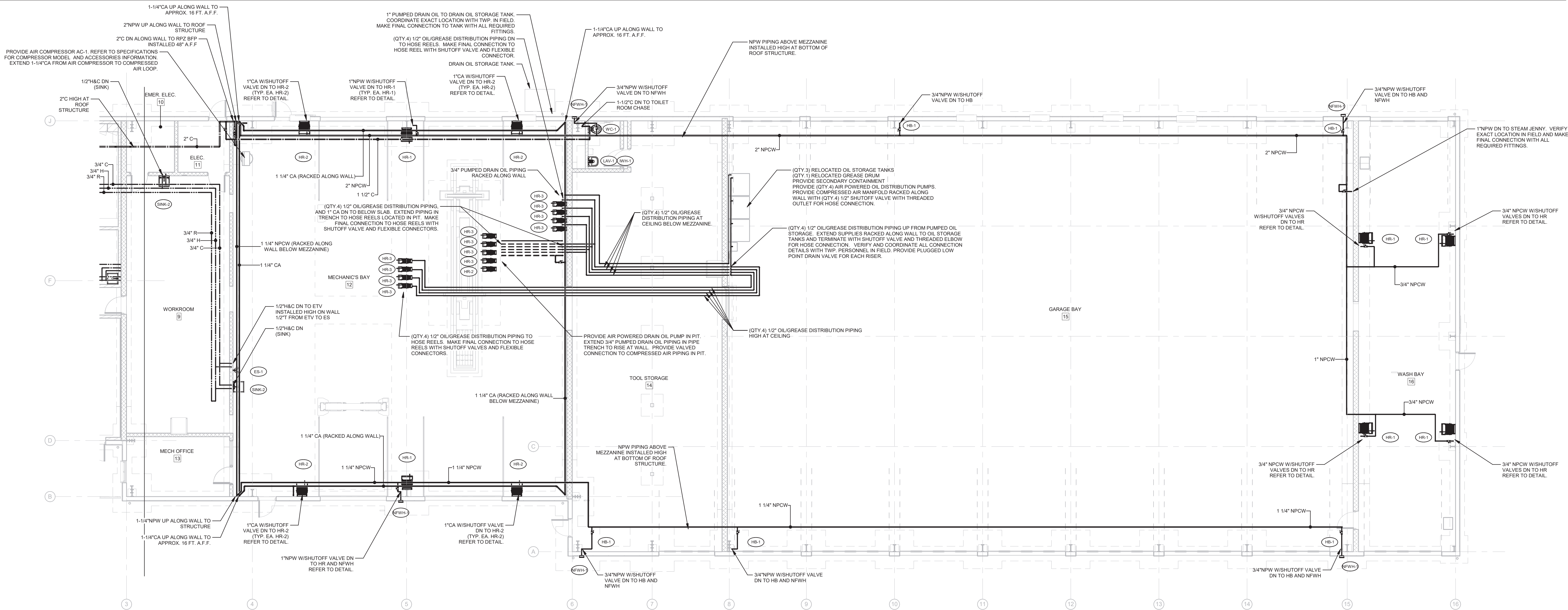


Drawing Title:

FIRST FLOOR PLAN -
BUILDING A - SUPPLY
PIPING

Drawing Number:

P201

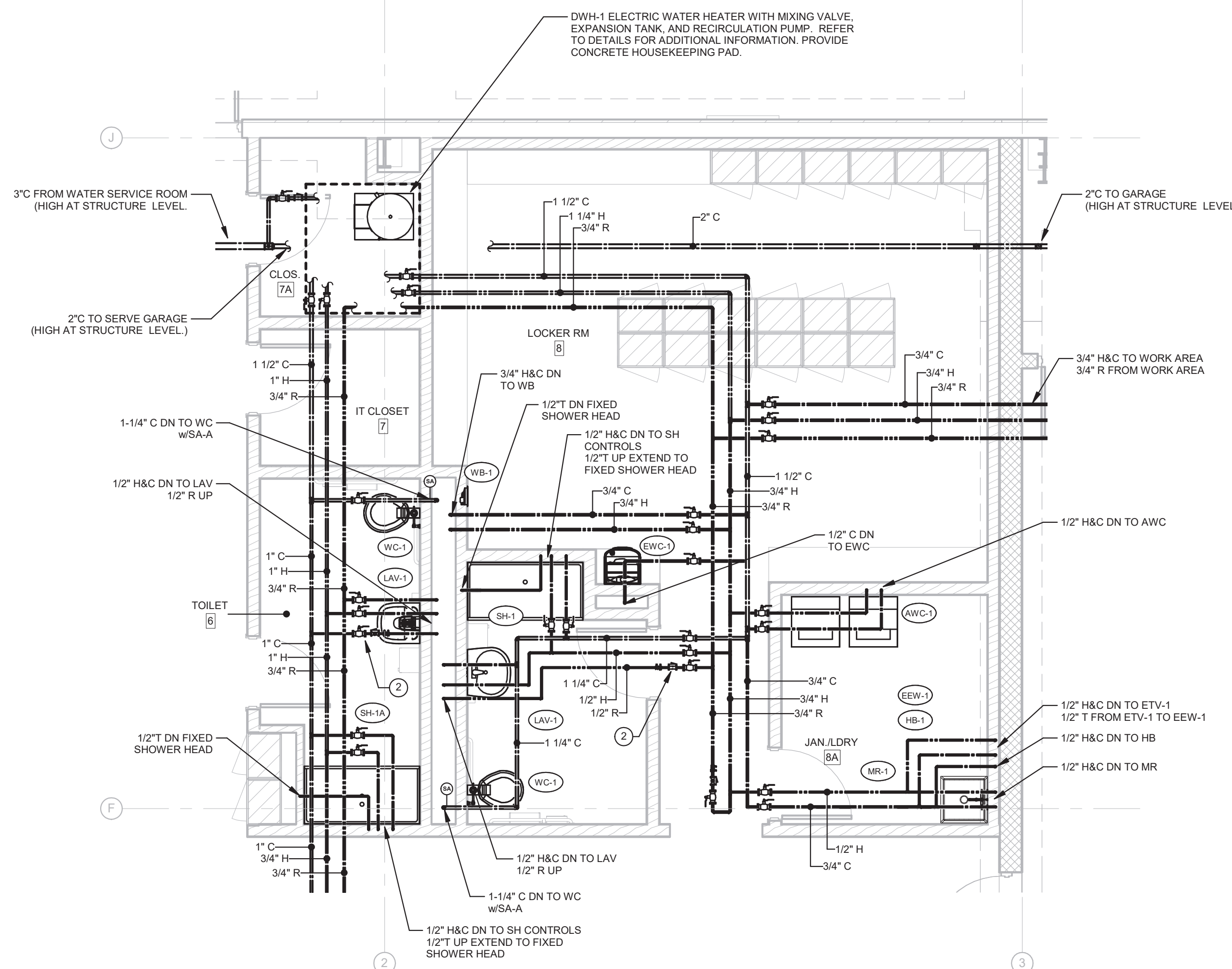


1 FIRST FLOOR PLAN - BUILDING A2 - SUPPLY PIPING

P201 SCALE: 1/8" = 1'-0"

4" CEMENT LINED DUCTILE IRON DOMESTIC WATER SERVICE AND 6" CEMENT LINED DUCTILE IRON FIRE PROTECTION SERVICE BELOW GRADE BY SITE CONTRACTOR. MAINTAIN MINIMUM 48" COVER OVER PIPING.
4" DOMESTIC WATER SERVICE UP FROM BELOW SLAB WITH FLANGED FITTING 12" A.F.F. TRANSITION TO 3" COPPER PIPING. PROVIDE 3" FULL PORT BALL VALVE AND 3" RPZ BACKFLOW PREVENTER WITH INLET AND OUTLET PRESSURE.

PROVIDE WATTS LFN223BS PRESSURE REDUCER SET AT 55PSI WITH PARALLEL WATTS 2" LP223S PRESSURE REDUCER SET AT 65PSI. EACH REGULATOR SHALL BE PROVIDED WITH INLET AND OUTLET ISOLATION BALL VALVES AND PRESSURE GAUGES LOCATED BETWEEN PRESSURE REDUCER OUTLET AND ISOLATION VALVE.

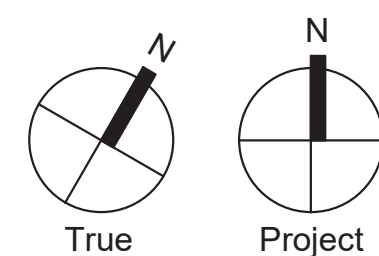


3 ENLARGED PLAN - LOCKER ROOM - SUPPLY PIPING

P201 SCALE: 1/4" = 1'-0"

2 FIRST FLOOR PLAN - BUILDING A1 - SUPPLY PIPING

P201 SCALE: 1/8" = 1'-0"



Civil

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Professional Seal



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

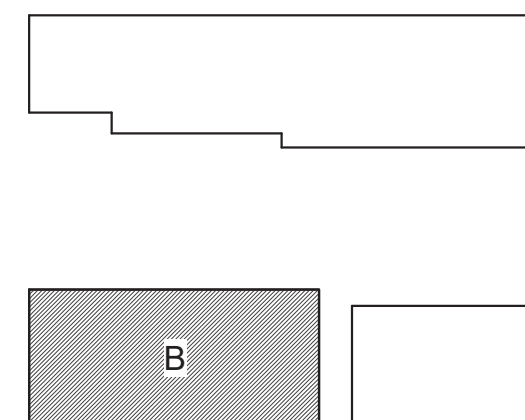
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DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

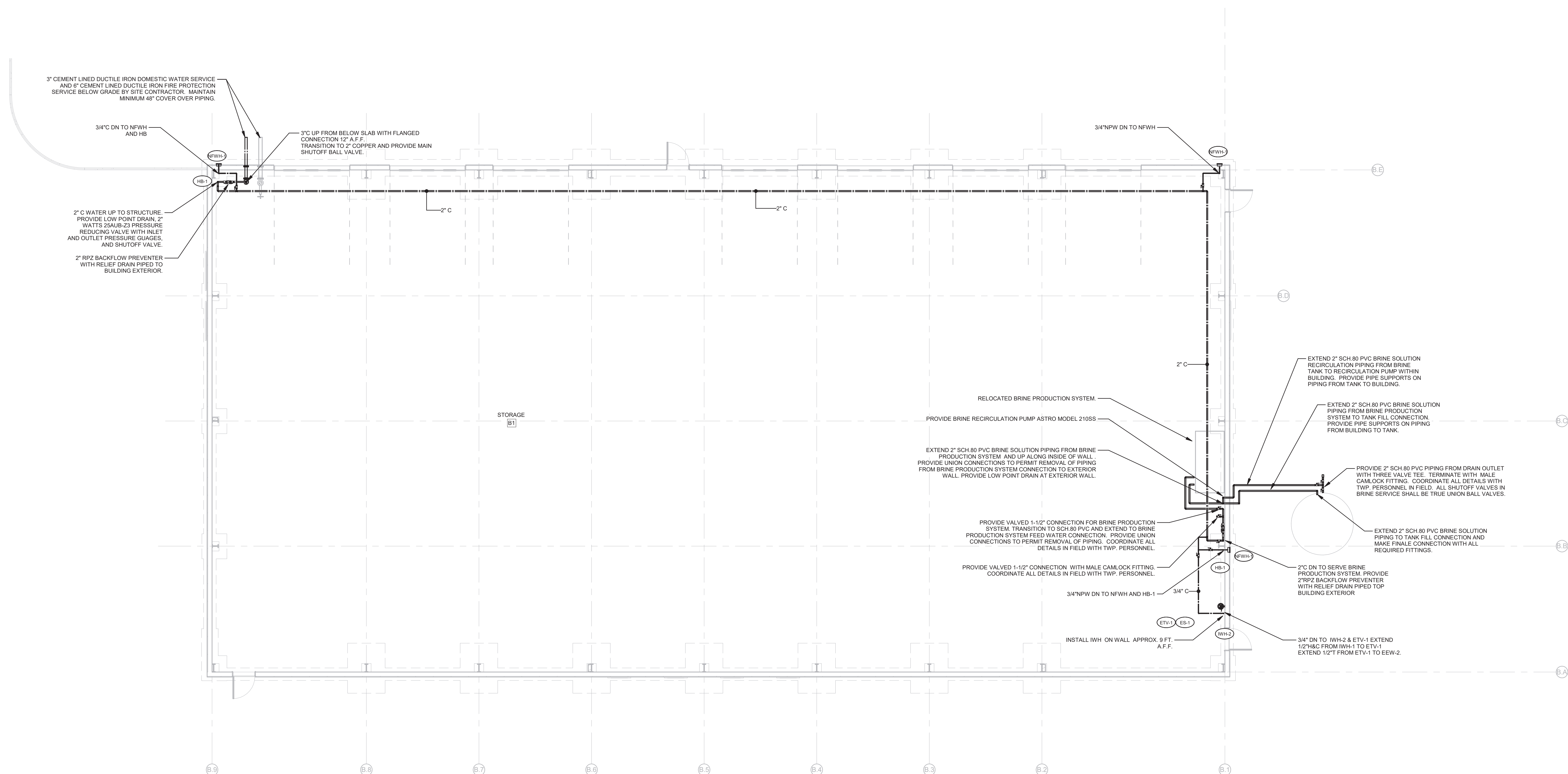


Drawing Title:

FIRST FLOOR PLAN -
BUILDING B - SUPPLY
PIPING

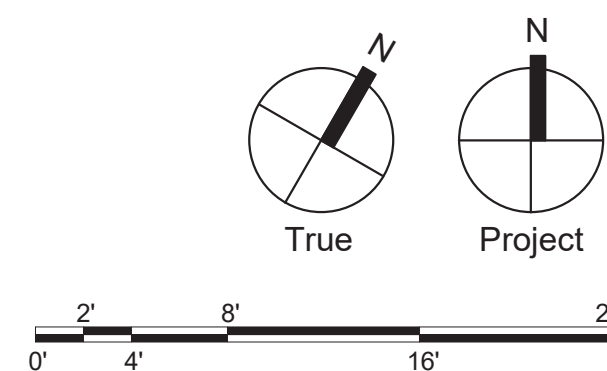
Drawing Number:

P202



1 | FIRST FLOOR PLAN - BUILDING B - SUPPLY PIPING

P202 SCALE: 1/8" = 1'-0"



P602

Civil:

JMR Engineering, LLC
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Downingtown, PA 19335
484-880-7342

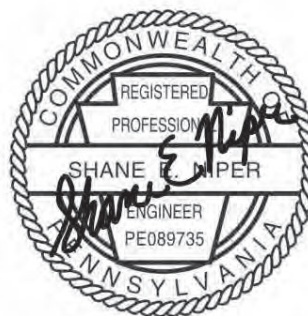
MEP

Snyder Hoffman
1005 West Lehigh Street
Bethlehem, PA 18018
610-694-8020

Structural:

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Lancaster, PA 17602
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Professional Seal:



Owner:

West Whiteland Township

101 Commerce Drive
Exton, PA 19341

New Construction of:

**WEST WHITELAND PUBLIC
WORKS FACILITY**

New Construction of:

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

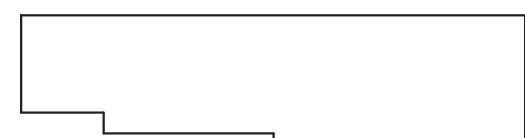
ISSUED FOR:

[illegible]

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

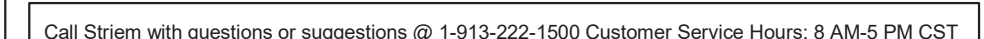
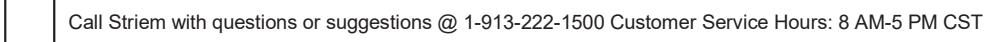


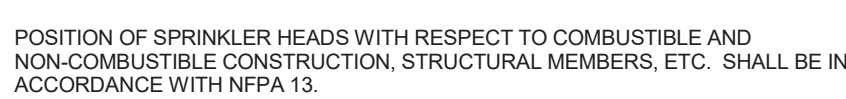
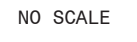
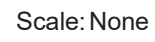
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DETAILS - PLUMBING

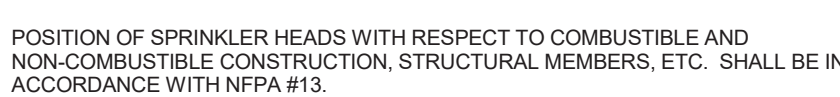
Drawing Number:

P603

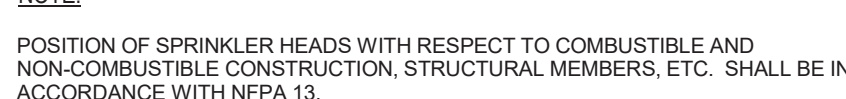




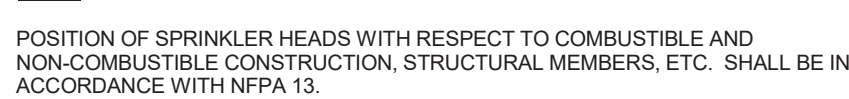
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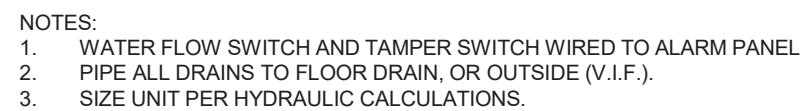
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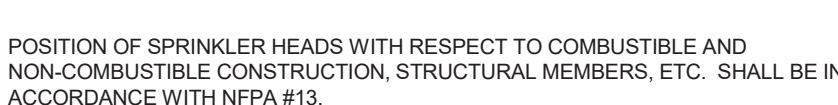
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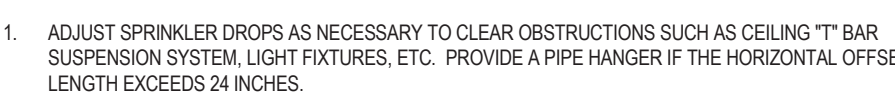
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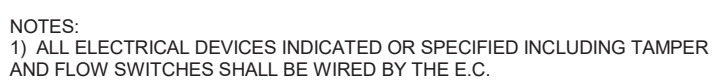
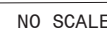
Scale: None



Scale: None



Scale: None



NO SCALE

REFERENCED DESIGN STANDARDS

DESIGN CODE REFERENCES

FIRE PROTECTION - GENERAL NOTES

SPRINKLER HEAD LEGEND

FIRE PROTECTION DESIGN LEGEND

Consultants:
Civil:

MEP

Struc

Professional Seal

New Construction of:

WEST WHITELAND PUBLIC
WORKS FACILITY

121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:



Drawing Title:

COVER SHEET - FIRE PROTECTION

Drawing Number:

FP000

JMR Engineering, LLC
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Exton, PA 19341

New Construction of:

**WEST WHITELAND PUBLIC
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121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

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SG PROJECT NUMBER:	21-037
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FIRST FLOOR PLAN - FIRE PROTECTION

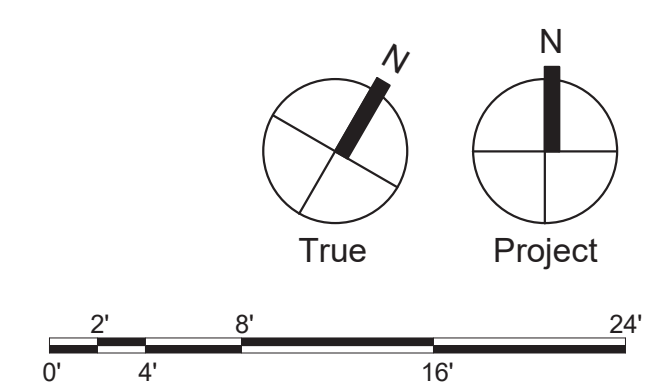
FP101.1



FP101.1 SCALE: 1/8" = 1'-0"



FP101.1 SCALE: 1/8" = 1'-0"



Civil:

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COMMONWEALTH OF PENNSYLVANIA
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SHANE E. PIPER
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121 VALLEY CREEK BOULEVARD,
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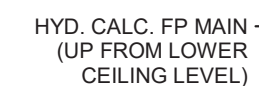
Page 10 of 10

MEZZANINE FLOOR
PLAN - FIRE
PROTECTION

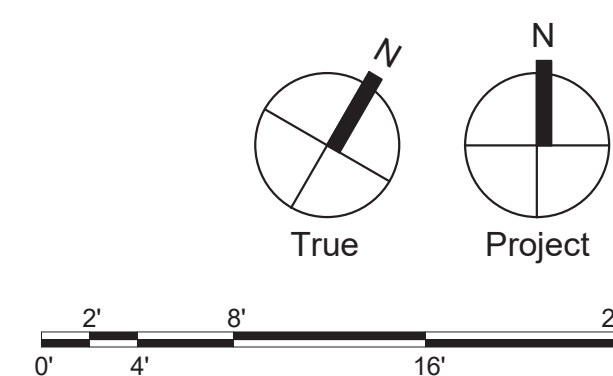
FP101.2



FP101.2 SCALE: 1/8" = 1'-0"



FP101.2 SCALE: 1/8" = 1'-0"



Civil

106 Schubert Drive
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SHANE E. PINNER
PE089735

Owner:

101 Commerce Drive
Exton, PA 19341

New Construction of:

**WEST WHITELAND PUBLIC
WORKS FACILITY**

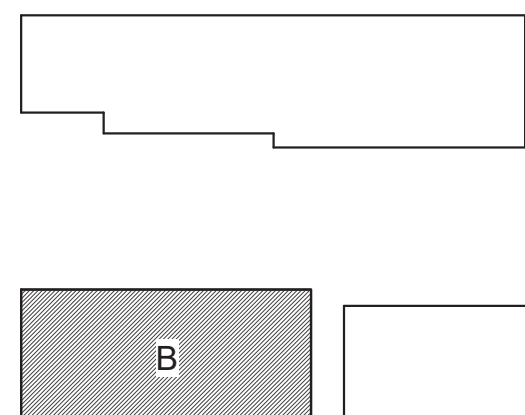
121 VALLEY CREEK BOULEVARD,
EXTON PA 19341

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DATE: 07/05/2023

SG PROJECT NUMBER: 21-037

Key Plan:

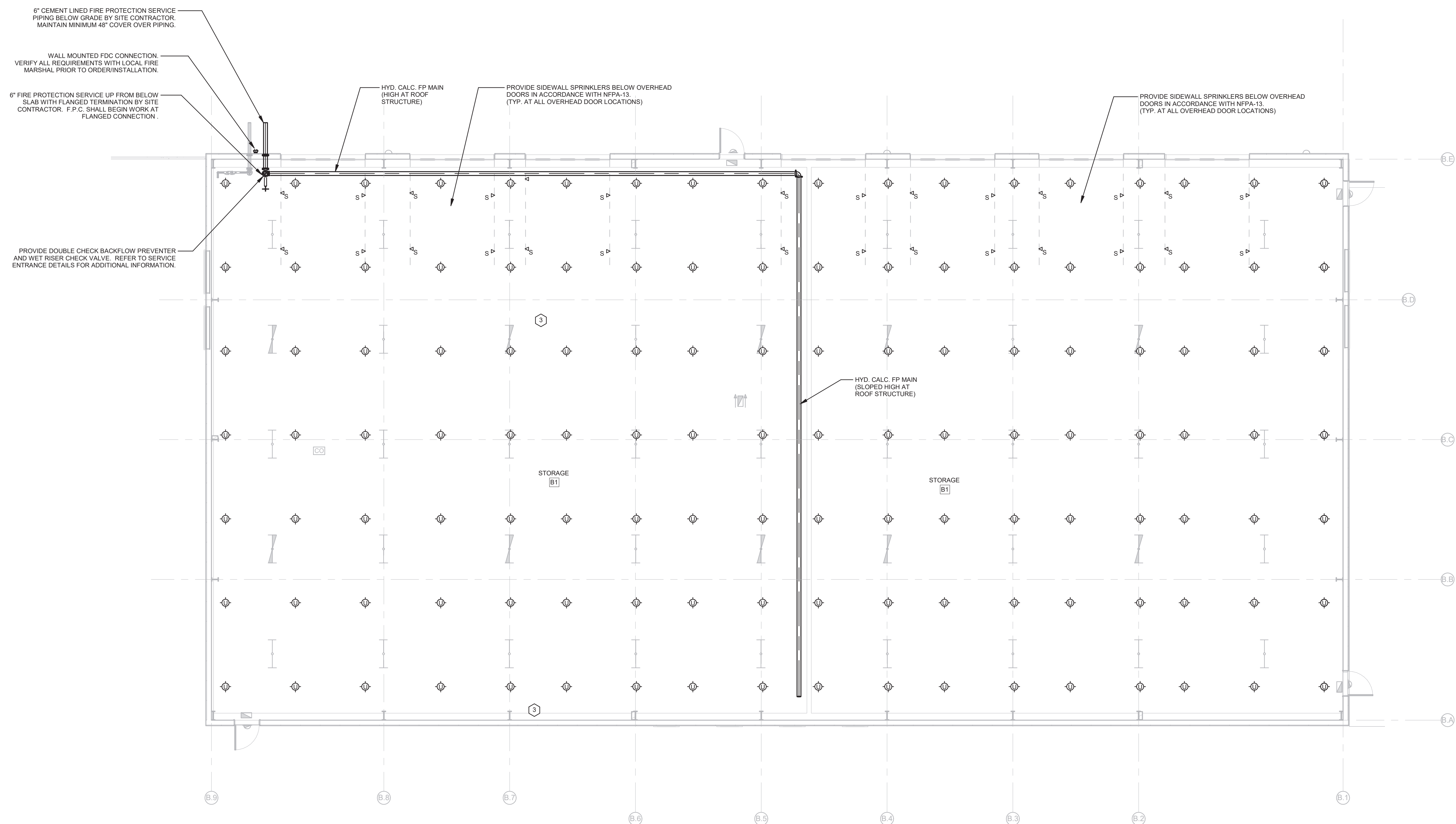


Drawing Title:

FIRST FLOOR PLAN -
BUILDING B - FIRE
PROTECTION

Drawing Number:

FP102



1 FIRST FLOOR PLAN - BUILDING B - FIRE PROTECTION

FP102 SCALE: 1/8" = 1'-0"

