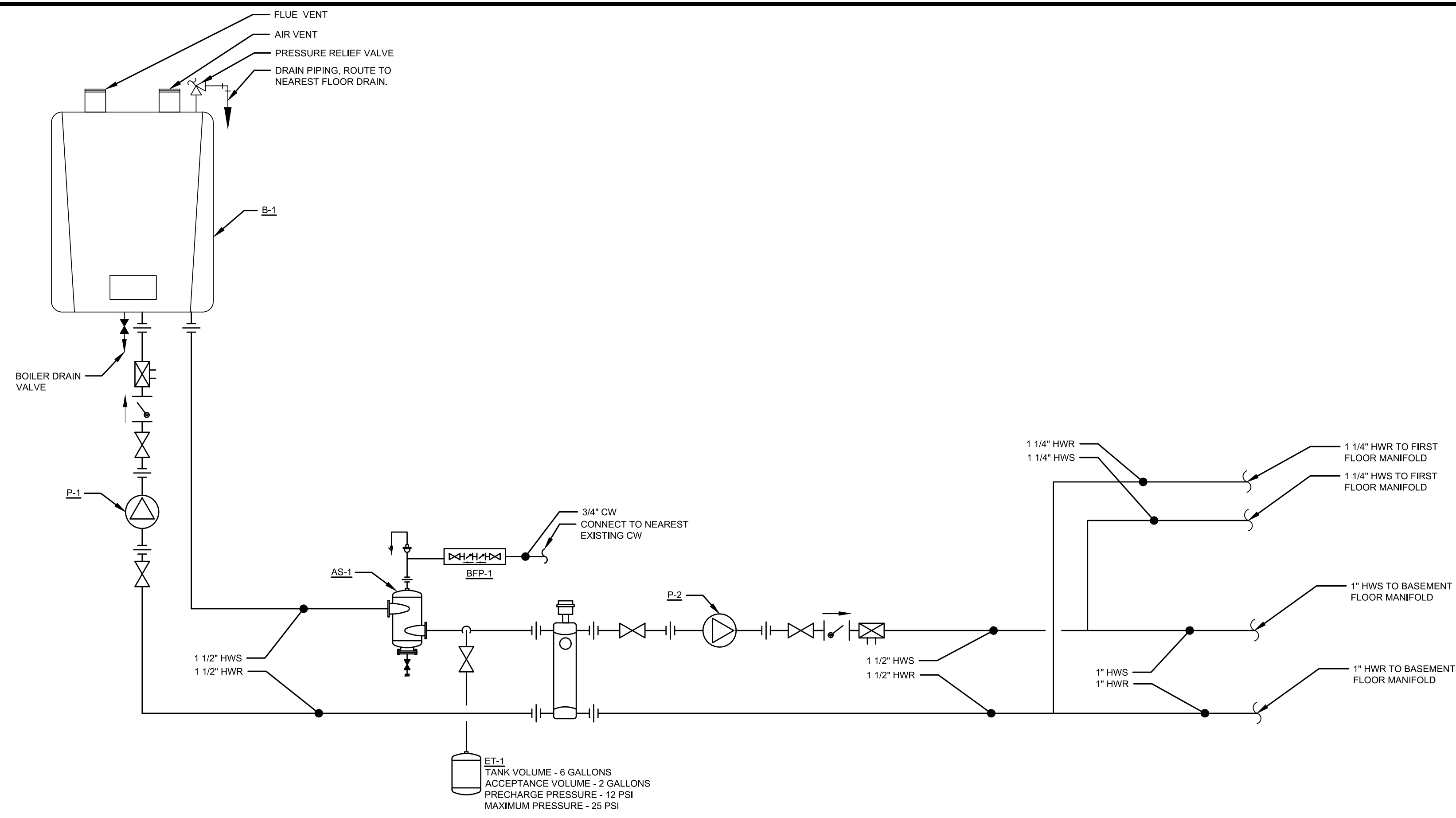


MECHANICAL GENERAL NOTES:

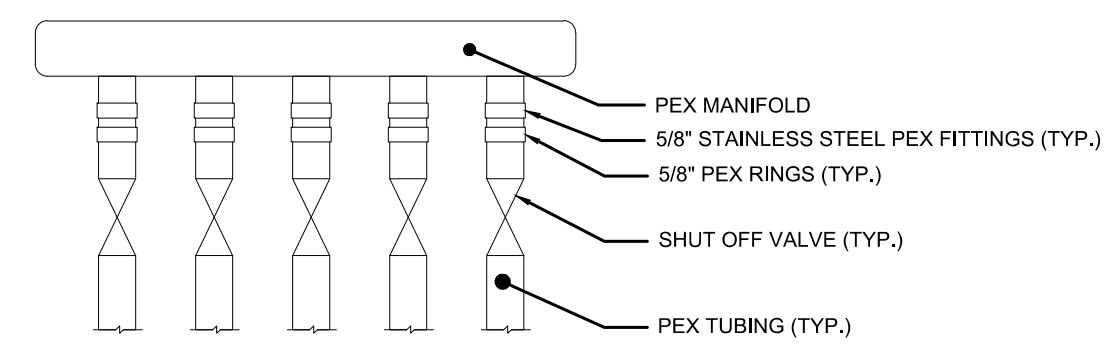
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING ETC.
- MANUFACTURER SHOWN IN SCHEDULE IS BASIS OF DESIGN.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAIL AS APPLICABLE TO THE PIPING SYSTEM.

NOT ALL SYMBOLS MAY APPLY.

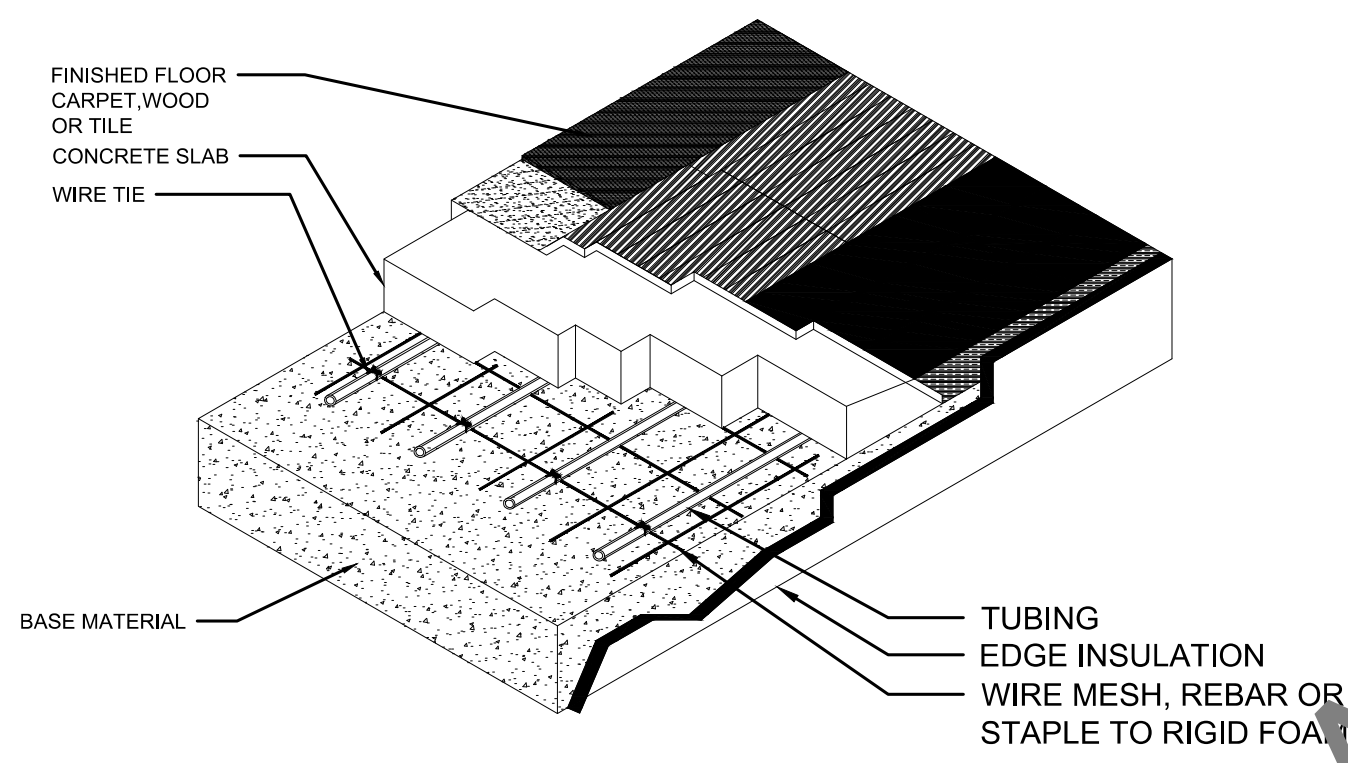
SYMBOL:	DESCRIPTION:
	PIPE DOWN
	PIPE UP
	UNION FLANGE
	SHUT OFF VALVE
	BALANCING VALVE
	DIRECTION OF FLOW IN PIPE
	CHECK VALVE
	SAFETY RELIEF VALVE
	PUMP
	AUTOMATIC AIR VENT
	RADIANT HEATING LOOP AREA
	LOOP #
	LOOP PIPE SIZE
	PIPE SPACING
	WATER FLOW
	RADIANT HEATING LOOP BORDER
AS	AIR SEPARATOR
B	BOILER
BFP	BACK FLOW PREVENTER
ET	AIR SEPARATOR
HWS	HEATING WATER SUPPLY
P	PUMP



1 BOILER PIPING DETAILS
NO SCALE



2 MANIFOLD DETAILS
NO SCALE



3 BELOW GRADE PIPE INSTALLATION DETAILS
NO SCALE

www.AmperEngineering.com

ENGINEER:	JAK
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.:	

PROPOSED ADDITION FOR
AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

BI

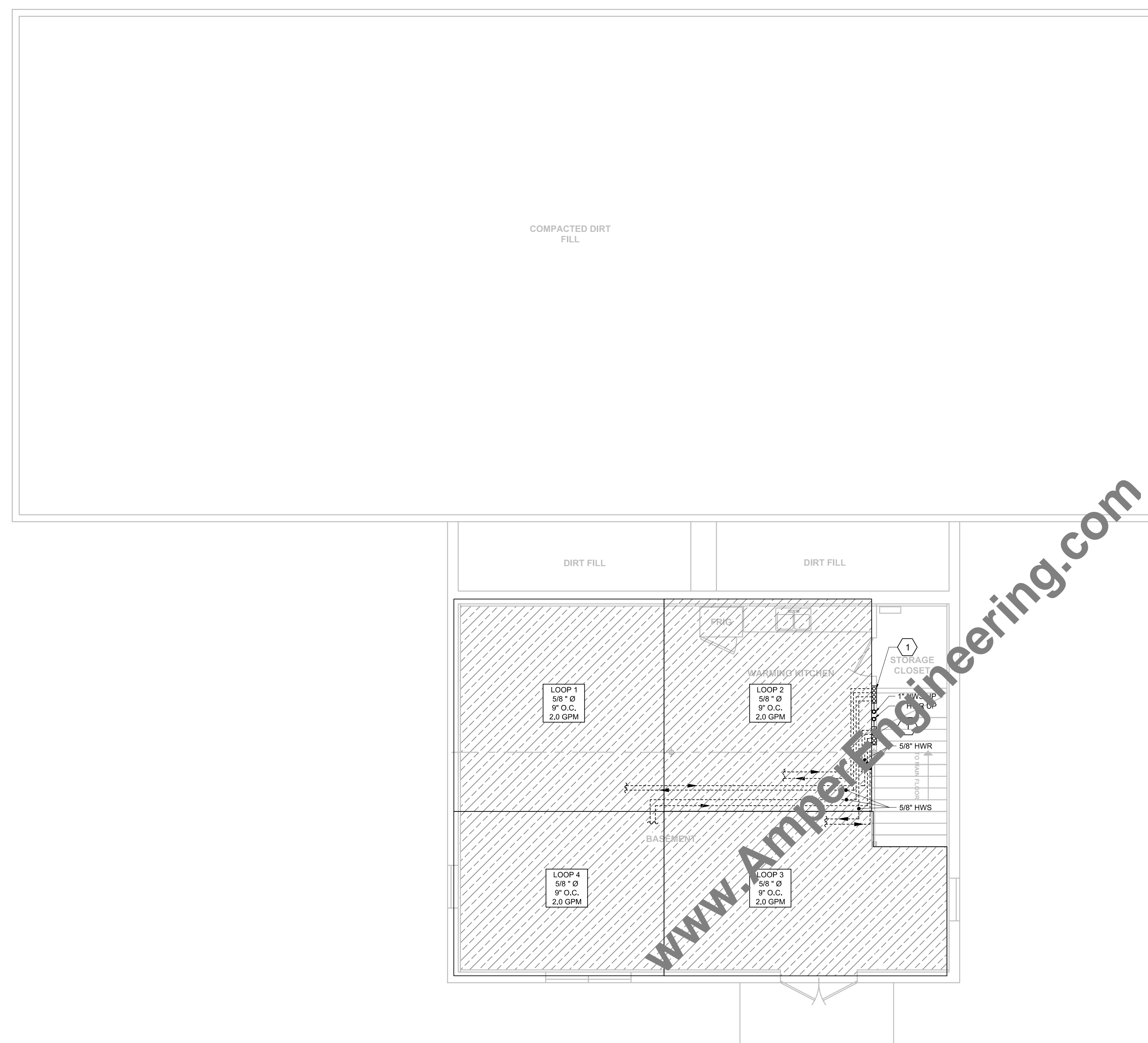
DRAWING INDEX:
 M-000 MECHANICAL COVER SHEET, DETAILS AND SCHEDULE
 M-101 MECHANICAL BASEMENT FLOOR PLAN.
 M-102 MECHANICAL FIRST FLOOR PLAN

AE JOB#1211
DATE ISSUED: 10-05-2020
DESIGNED BY: JAK
DRAWN BY: JAK
DRAWING TITLE: MECHANICAL COVER SHEET, DETAILS AND SCHEDULE
DRAWING NUMBER:

M-000

GENERAL NOTES
 1. ALL TUBING INSIDE THE FLOOR SHALL BE 5/8" OF SIZE AND PEX TYPE. PROVIDE O2 BARRIER.
 2. LOOP LENGTH SHALL NOT EXTEND 400 FEET.

KEY NOTE (K)
 1. PROVIDE 1" MANIFOLD, 4 LOOPS, UP/NOR MANUFACTURER TRUEFLOW MODEL OR APPROVED EQUAL.



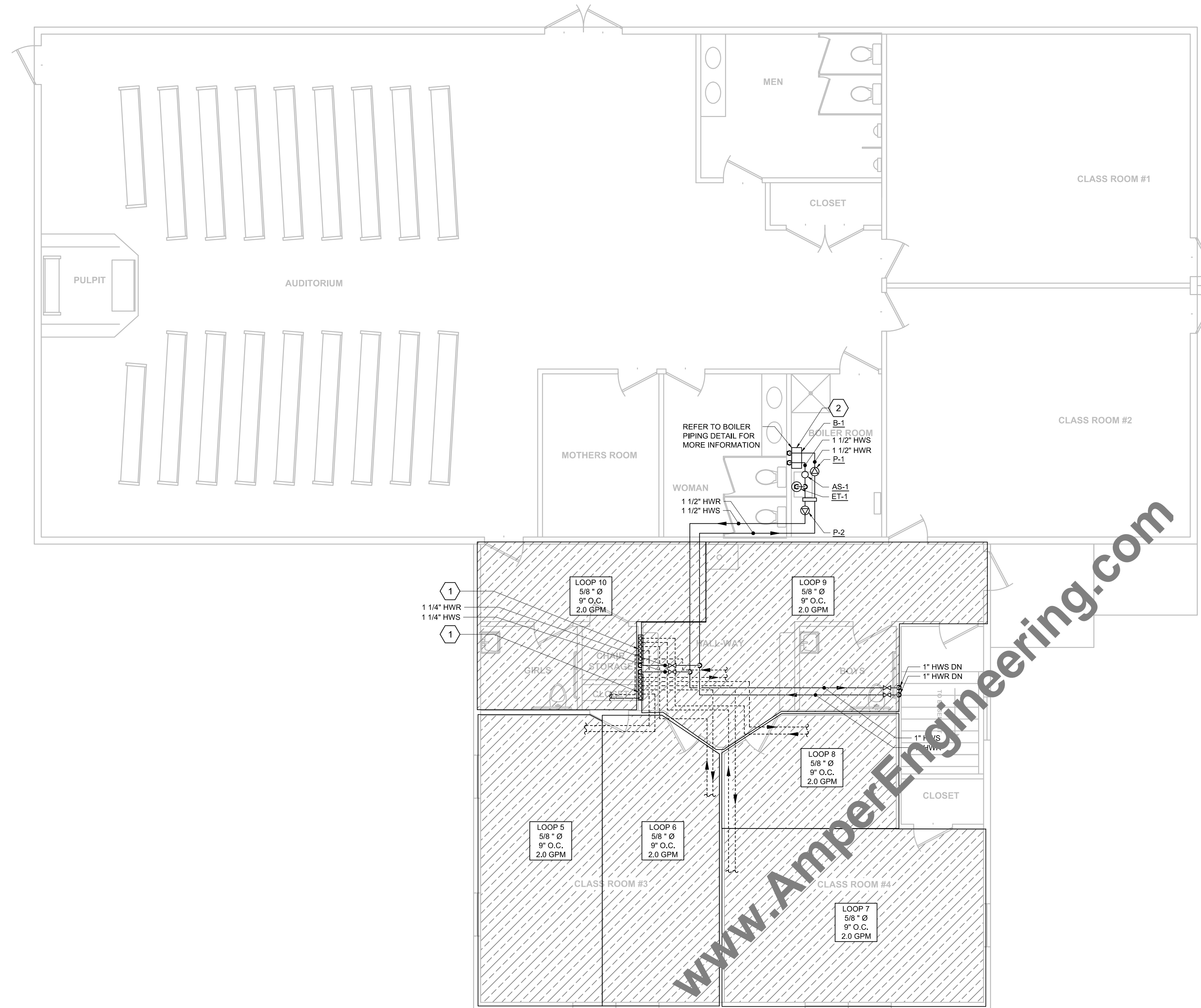
1 MECHANICAL BASEMENT FLOOR PLAN
 M-101 SCALE: 3/16" = 1'-0"

ENGINEER:	rrt
PROJECT COORDINATOR:	Jak
DATE:	
REVISION:	
NO.	
PROPOSED ADDITION FOR	AIN SCHOOL
ROAD	ROAD
NEW TRIPOLI, PA 18066	
AE JOB#1211	
DATE ISSUED:	10-05-2020
DESIGNED BY:	JAK
DRAWN BY:	JAK
DRAWING TITLE:	MECHANICAL BASEMENT FLOOR PLAN
DRAWING NUMBER:	

M-101

GENERAL NOTES
 1. ALL TUBING INSIDE THE FLOOR SHALL BE 5/8" OF SIZE AND PEX TYPE, PROVIDE O2 BARRIER.
 2. LOOP SHALL NOT EXTEND 400 FEET.

KEY NOTE (K)
 1. PROVIDE 1 1/4" MANIFOLD, 6 LOOPS, UPONOR MANUFACTURER TRUFLOW MODEL OR APPROVED EQUAL.
 2. ROUTE COMBUSTION AIR AND FLUE VENT UP TO THE ROOF, TERMINATE AS PER MANUFACTURER'S INSTRUCTION.



1 MECHANICAL FIRST FLOOR PLAN
 M-102 SCALE: 3/16" = 1'-0"

ENGINEER: Jan
 PROJECT COORDINATOR: J
 DATE:
 REVISION NO.
 NO.

PROPOSED ADDITION FOR
 B.I. AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED: 10-05-2020
 DESIGNED BY: JAK
 DRAWN BY: JAK
 DRAWING TITLE: MECHANICAL FIRST FLOOR PLAN
 DRAWING NUMBER:

M-102

GENERAL NOTES:

- THIS DESIGN MAY BE USED FOR SECURING PERMITS, BID, PLANNING, THE COMPANY'S REVIEW OR SOME OTHER GOAL. THIS DESIGN DOES NOT GUARANTEE THESE APPROVALS. NOR ARE THESE APPROVALS A REQUIREMENT FOR SERVICES OR THE COMPLETION OF THIS WORK.
- THIS DESIGN IS NOT A COMPLETE SET OF CONSTRUCTION DRAWING OR SHOP DRAWINGS. THIS DESIGN REPRESENTS DIAGRAMMATIC REPRESENTATION OF INTENDED SCOPE OF WORK.
- THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE LISTING INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE, NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NATIONAL ELECTRICAL CODE, I.E.C. LIFE SAFETY CODE, LOCAL BUILDING CODE, OSHA REGULATIONS, O.C.A.L., STATE, FEDERAL AND AUTHORITY HAVING JURISDICTION CODES APPLICABLE AT THE TIME OF THE CONSTRUCTION.
- GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA - STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION (ANSI)
- ALL MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS. LISTED LABELS FOR THE INTENDED PURPOSE BY UNDERWRITERS (UL) OR OTHER ORGANIZATION THAT IS ACCEPTABLE TO THE A.H.
- THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS ARE INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS WHICH WILL NOT INTERFERE WITH THE STRUCTURE OF THE BUILDING AND WHICH WILL FIT INTO THE AVAILABLE SPACES. THE CONTRACTOR IS RESPONSIBLE FOR CAREFULLY LAYING OUT ALL WORK TO CONFORM TO NATIONAL ELECTRICAL CODE CLEARANCES, ARCHITECTURAL, STRUCTURAL, MECHANICAL AND SITE CONDITIONS. TO AVOID OBSTRUCTIONS AND TO ALLOW THE PROPER INSTALLATION OF EACH ITEM.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE WITH DRAWINGS OF OTHER TRADES TO FIT THE ACTUAL SPACE CONDITIONS, HEADROOM AND SPACE CONDITION TO BE MAINTAINED.
- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATION AND DETAILS OF THE WORK TO BE INSTALLED.
- UPON THE COMPLETION OF THE WORK, THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEM READY FOR OPERATION AND INSPECTION BY A.H.
- TEST AND INSPECT ALL WIRING AND EQUIPMENT INSTALLED UNDER THIS SECTION OF SPECIFICATIONS. ALL WIRING MUST BE FREE SHORTS AND BROKEN WIRE. LEAVE ALL MATERIALS AND APPARATUS IN PROPER AND SATISFACTORY WORKING CONDITIONS.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE CORRECT PHASE SEQUENCE OF ALL THREE-PHASE FEEDERS AND BRANCH CIRCUITS. VERIFY PROPER ROTATION OF ALL MOTORS.
- CONDUIT RUNS WHEN SHOWN ARE DIAGRAMMATIC. FINAL LOCATION AND ROUTING SHALL BE ESTABLISHED BY THE CONTRACTOR BASED ON THE INSTALLATION CONDITIONS AND SHALL BE VERIFIED IN THE FIELD. ALL CONDUIT TYPES AND INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY DRAG WIRE. MEANS, ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A DRAG WIRE.
- PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FOR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS.
- THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH SHALL BE 6'-0".
- FLEXIBLE CONDUIT INSTALLED OUT OF DOORS, IN ANY MECHANICAL EQUIPMENT ROOMS, OR IN NORMALLY WET AREAS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.
- PROVIDE CONDUIT, WIRING, CIRCUITING AND REQUIRED CONNECTIONS TO ALL DEVICES, FIXTURES AND EQUIPMENT. CONNECT TO CIRCUITS AS INDICATED. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED IN THE PANEL SCHEDULE DIRECTORY AND ON THE AS-BUILT DRAWINGS.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING HEIGHTS OF ALL DEVICES MOUNTED IN CASEWORK OR IN ABOVE COUNTERS WITH EXISTING EQUIPMENT.
- UNLESS SPECIFICALLY DIRECTED OTHERWISE, FURNISH AND INSTALL EACH AND EVERY ITEM CONTAINED IN AND ASSOCIATED WITH. THE WORK INVOLVED AS SHOWN ON THE DRAWINGS AND/OR DESCRIBED IN THE ACCOMPANYING SPECIFICATIONS, TOGETHER WITH ALL APPURTENANCES, COMPONENTS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND CABLING TO ALL DEVICES, FIXTURES AND ETC. FOR A COMPLETE WORKING SYSTEM BASED ON THE CIRCUITS NOTED.
- PROVIDE INDEPENDENT SUPPORT FOR DISCONNECT SWITCHES, CONTROL STATIONS, BOXES, PANELS, ETC. WHERE NO WALLS OR OTHER STRUCTURAL SURFACE EXISTS.
- EQUIPMENT SIZED AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHED.
- PROVIDE BRANCH CIRCUIT WIRING TO ALL ITEMS REQUIRING ELECTRICAL CONNECTIONS. WHERE BRANCH CIRCUIT WIRING IS NOT SHOWN, CONNECT ITEMS TO CIRCUITS INDICATED. THE CONTRACTOR SHALL DETERMINE EXACT ROUTING OF CONDUITS AND WIRING, UNLESS INDICATED OTHERWISE. ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG.
- PROVIDE JUNCTION BOX FOR ANY DEVICE WITH PIG TAIL SUCH AS SOLENOID VALVES, LIMIT SWITCHES, SMOKE DETECTORS AND ETC. FOR PROPER ELECTRICAL CONNECTION. PROVIDE ALL HARDWARE FOR MOUNTING OF JUNCTION BOX.
- EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS.
- WHEREVER THE INSTALLATION OF ELECTRICAL EQUIPMENT AS SHOWN ON THE DRAWINGS IS IMPRACTICAL DUE TO LOCAL INTERFERENCE OR UNFORSSEEN FIELD CONDITIONS, THE CONTRACTOR SHALL INSTALL THE EQUIPMENT AT NEW LOCATIONS AS DIRECTED BY THE ENGINEER.
- DESIGN IS BASED ON ALL CONDUCTORS TO BE THIN COPPER AND NO MORE THAN 4 CURRENT CARRYING CONDUCTORS IN THE SAME RACEWAY OR CONDUIT, UNLESS OTHERWISE NOTED.
- WHEN EQUIPMENT IS BEING REMOVED/DISMO FROM THE FIELD, ALL WIRING ASSOCIATED WITH THE LOAD MUST BE REMOVED FROM THE JUNCTION BOX OR THE CIRCUIT BREAKER. DO NOT LEAVE UNUSED CONDUCTORS IN THE FIELD WITH ENDS TAPED WITH TAPE OR WIRE NUTS.
- PROVIDE DISCONNECT SWITCHES FOR ELECTRICAL HEATER, HVAC EQUIPMENT AND EXHAUST FANS WITHIN EYE SIGHT OF THE EQUIPMENT.
- PROVIDE SERVICE RECEPTACLE WITHIN 25 FEET OF EACH HVAC EQUIPMENT.

FOR ALL DISTRIBUTION EQUIPMENT.
 GFP - GROUND FAULT PROTECTION
 ST - SHUNT TRIP
 LSLG - LONG TIME, SHORT TIME
 INSTANTANEOUS AND GROUND FAULT PROTECTION FUNCTIONS
 100% - 100% RATED EQUIPMENT.

① - ELECTRIC OPERATED DEVICE
 Ⓜ - ELECTRONIC TRIP TYPE DEVICE

CIRCUIT BREAKER
 THERMAL MAGNETIC CIRCUIT BREAKER TOP NUMBER DENOTES TRIP AMPERE RATING BOTTOM NUMBER DENOTES FRAME SIZE AMPERE RATING #P - DENOTES NUMBER OF POLES
 UNFUSED DISCONNECT SWITCH. NUMBER DENOTES SWITCH AMPERE RATING #P - DENOTES NUMBER OF POLES
 FUSED DISCONNECT SWITCH TOP OR FIRST NUMBER DENOTES SWITCH AMPERE RATING #P - DENOTES NUMBER OF POLES SECOND NUMBER DENOTES AMPERE FUSE RATING #P - DENOTES NUMBER OF POLES

LIGHTING:
 TYPICAL FOR ALL LIGHTING FIXTURES: CAPITAL LETTER DENOTES FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, TYPE, AND DETAILS. NUMBER DENOTES BRANCH CIRCUIT NUMBER AT RESPECTIVE LIGHTING PANELBOARD. LOWER CASE LETTER DENOTES SWITCHED CIRCUIT.

⊙	SINGLE POLE SWITCH
⊙	DOUBLE POLE SWITCH
⊙	THREE-WAY SWITCH
⊙	FOUR-WAY SWITCH
⊙	SINGLE POLE KEY SWITCH
⊙	THREE WAY KEY SWITCH
⊙	SINGLE POLE SWITCH WITH PILOT LIGHT
⊙	DIMMING SWITCH
⊙	OCCUPANCY SENSOR TYPE SWITCH
⊙	THREE WAY DIMMING SWITCH
⊙	SPECIAL RECEPTACLE AMPERE AND VOLTAGE RATING AS INDICATED ON DRAWING
⊙	DUPLEX RECEPTACLE - FLOOR MOUNTED
⊙	QUAD RECEPTACLE - FLOOR MOUNTED

EMERGENCY LIGHTING WITH EXIT SIGN
 EXIT SIGN
 MOTION SENSOR
 PHOTOCELL
 OCCUPANCY SENSOR
 TIME CLOCK
 LIGHTING CONTACTOR. NUMBER DENOTES CONTACTOR IDENTIFICATION TAG. SEE CONTACTOR SCHEDULE FOR NUMBER OF POLES AND DETAILS.
 GENERATOR REMOTE ANNUNCIATOR
 PADDLE FAN
 2 X4 LED FIXTURE
 2 X6 LED FIXTURE

ABBREVIATIONS:

A	AMPERE	FIXT	FIXTURE	PP	POWER PANEL
AFB	ABOVE FINISHED FLOOR	FL	FLOOR	PWR	POWER
AFG	ABOVE FINISHED GRADE	FVNR	FULL VOLTAGE NON-REVERSING	RECEP	RECEPTACLE
AFI	ARC FLASH INTERRUPTER	G	GROUND	REL	EXISTING TO BE RELOCATED
AFCI	ARC FLASH CIRCUIT INTERRUPTER	GEN	GENERATOR	RVNR	REDUCED VOLTAGE, NON REVERSING
ASYM	ASYMMETRICAL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SH	SHIELDED CABLE
ATS	AUTOMATIC TRANSFER SWITCH	GFI	GROUND FAULT INTERRUPTER	SP	SPARE
AWG	AMERICAN WIRE GAUGE	HID	HIGH INTENSITY DISCHARGE	SS	SURGE SUPPRESSION
BL	BASIC IMPULSE	HOA	HAND-OFF-AUTOMATIC	SWBD	SWITCHBOARD
BKR	BREAKER BLDG BUILDING	HP	HORSE POWER	SWGR	SWITCHGEAR
CAT	CATALOG	IC	INTERRUPTING CAPACITY	SYM	SYMMETRICAL
CB	CIRCUIT BREAKER	IB	JUNCTION BOX	TEL	TELEPHONE
CCTV	CLOSED CIRCUIT TELEVISION	KV	KILOVOLT	TP	TAMPER PROOF
CKT	CIRCUIT	KVA	KILOVOLT AMPERE	TYP	TYPICAL
CL	CENTER LINE	KW	KILOWATT	UON	UNLESS OTHERWISE NOTED
CLG	CEILING	KWH	KILOWATT HOUR	V	VOLT OR VOLTAGE
CNTL	CONTROL	LCP	LOCAL CONTROL PANEL	VA	VOLT AMPERE
CO	CONDUIT ONLY	LIS	LOAD INTERRUPTER SWITCH	VFD	VARIABLE FREQUENCY DRIVE
CPT	CONTROL POWER TRANSFORMER	LP	LIGHTING PANEL	WHM	WATT HOUR METER
CT	CURRENT TRANSFORMER	LTG	LIGHTING	WP	WEATHERPROOF
CU	COPPER	MAX	MAXIMUM	WW	WIREWAY
CUH	CABINET UNIT HEATER	MCC	MOTOR CONTROL CENTER	XFMR	TRANSFORMER
D	DEMOLISH	MCS	MOLDED CASE SWITCH		
DIA	DIAMETER	MDP	MAIN DISTRIBUTION PANEL		
DISC	DISCONNECT	MIN	MINIMUM		
DN	DOWN	MSB	MAIN SWITCHBOARD		
DP	DISTRIBUTION PANEL BOARD	MSG	MAIN SWITCHGEAR		
DWG	DRAWING	MTS	MANUAL TRANSFER SWITCH		
EC	EMPTY CONDUIT	NA	NON-AUTOMATIC		
EL	ELEVATION	NC	NORMALLY CLOSED		
ELEC	ELECTRICAL	NEC	NATIONAL ELECTRIC CODE		
EQUIP	EQUIPMENT	NIC	NOT IN CONTRACT		
ER	EXISTING TO REMAIN	NO	NORMALLY OPEN		
EXIST	EXISTING	NTS	NOT TO SCALE		
FA	FIRE ALARM	P	POLE		
FBO	FURNISHED BY OTHER	PH	PHASE		
FDR	FEEDER	PNL	PANEL		
		PT	POTENTIAL TRANSFORMER		

ENGINEER: Jan

PROJECT COORDINATOR: Jan

DATE:

REVISION:

NO.:

PROPOSED ADDITION FOR
BL **AIN SCHOOL**
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED:
 10-05-2020
 DESIGNED BY:
 JAK

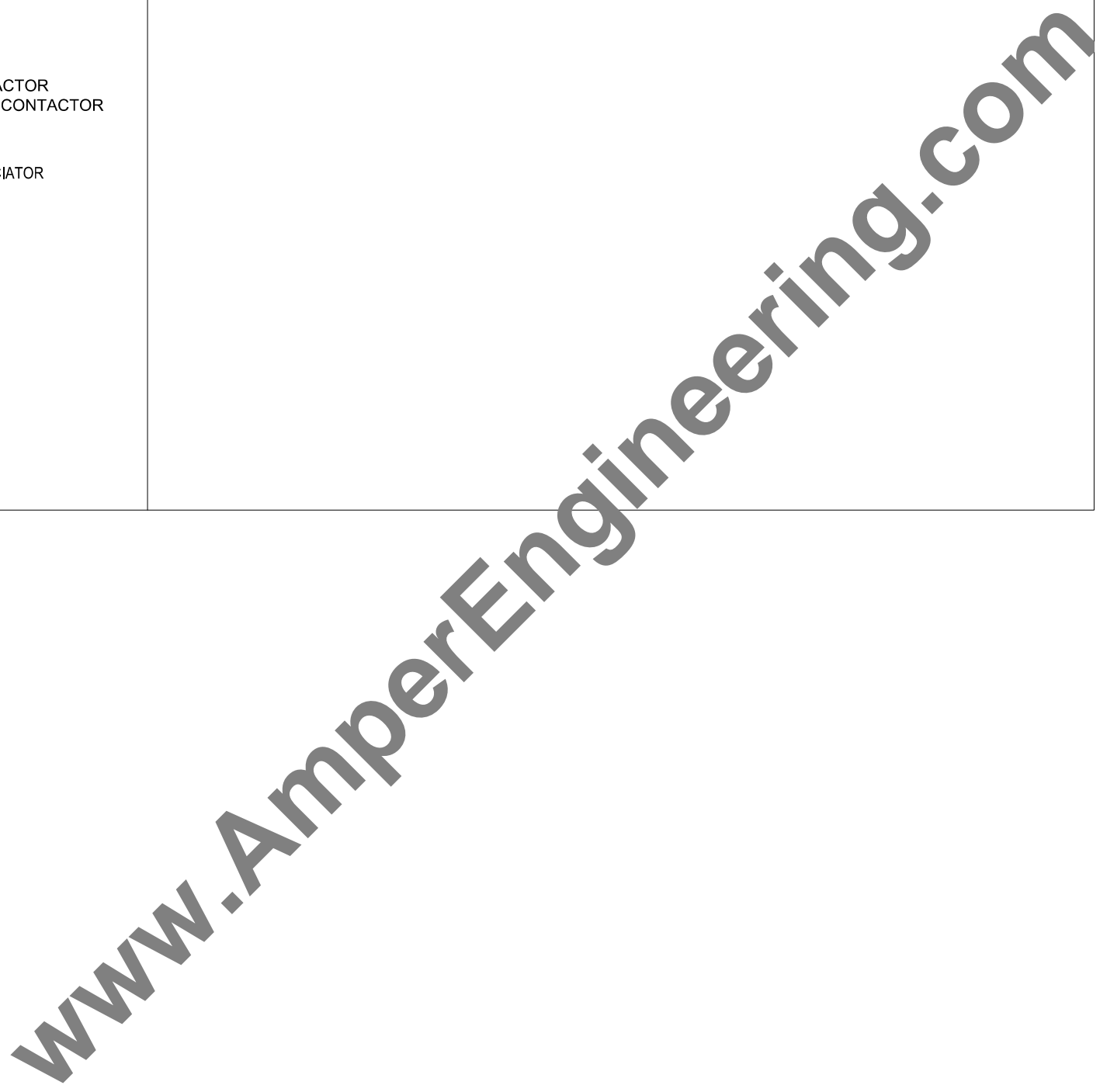
DRAWN BY:
 JAK

DRAWING TITLE:
 ELECTRICAL COVER SHEET

DRAWING NUMBER:

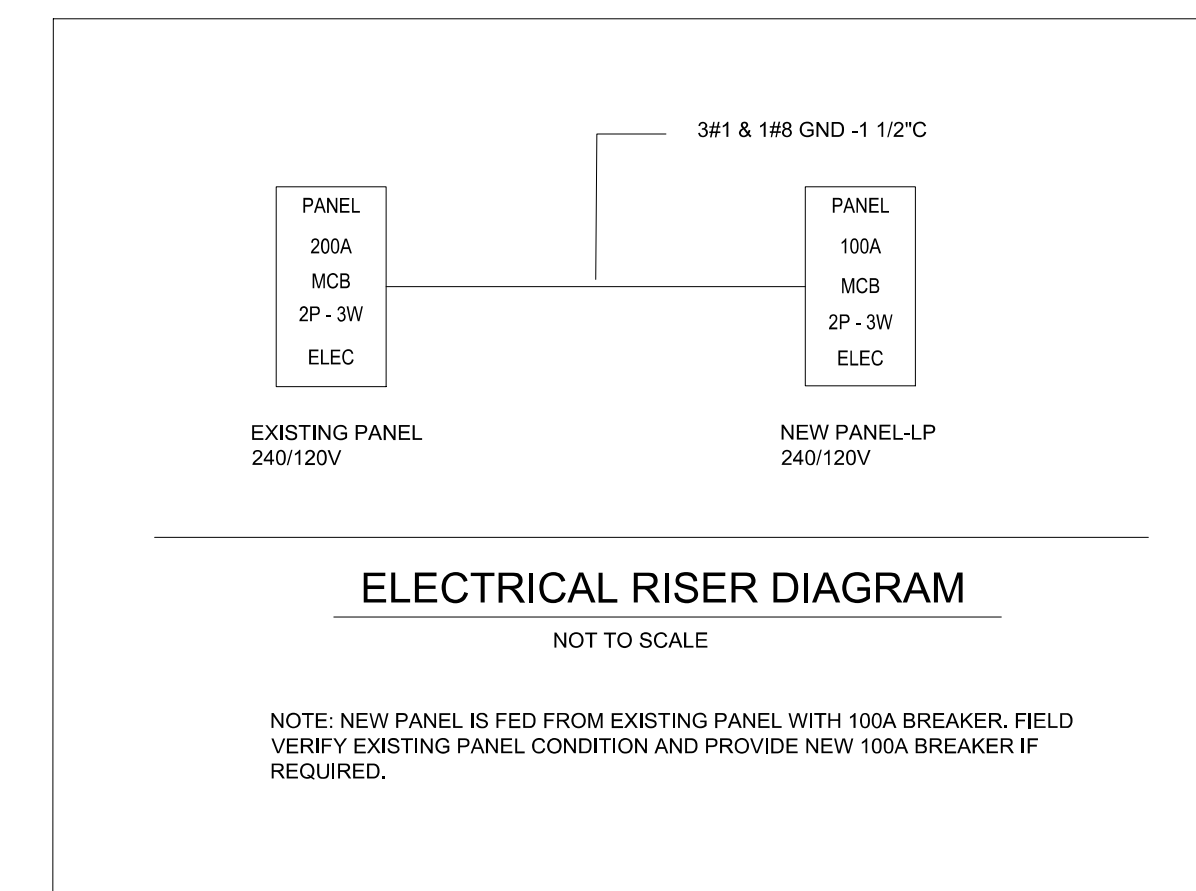
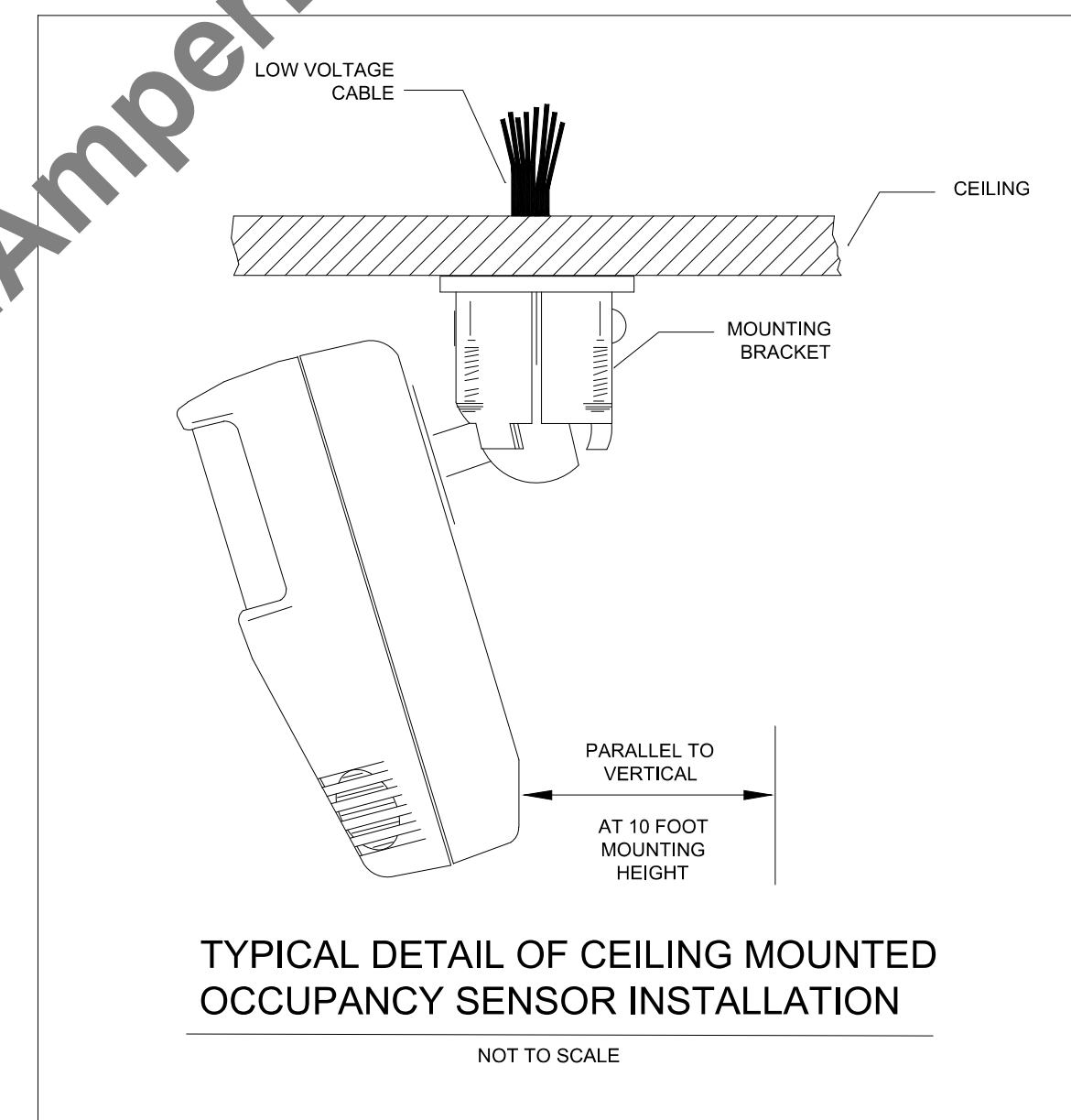
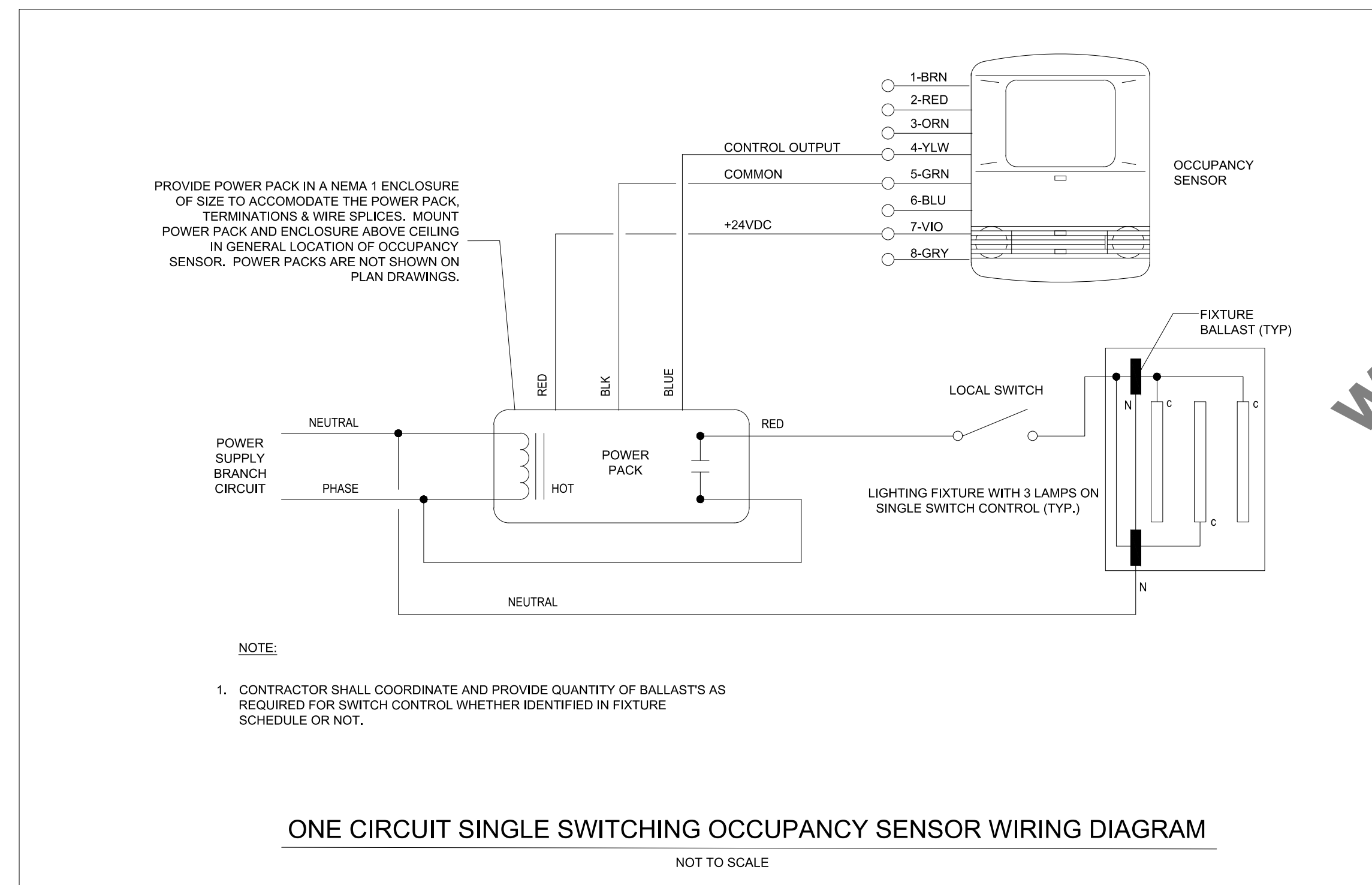
E-000

- DRAWING INDEX:
- E-001 ELECTRICAL COVER SHEET
 - E-002 ELECTRICAL SCHEDULE AND DETAILS
 - E-101 LIGHTING BASEMENT FLOOR PLAN
 - E-102 LIGHTING FIRST FLOOR PLAN
 - E-103 POWER BASEMENT FLOOR PLAN
 - E-104 POWER FIRST FLOOR PLAN
 - E-105 COMCHECK REPORT

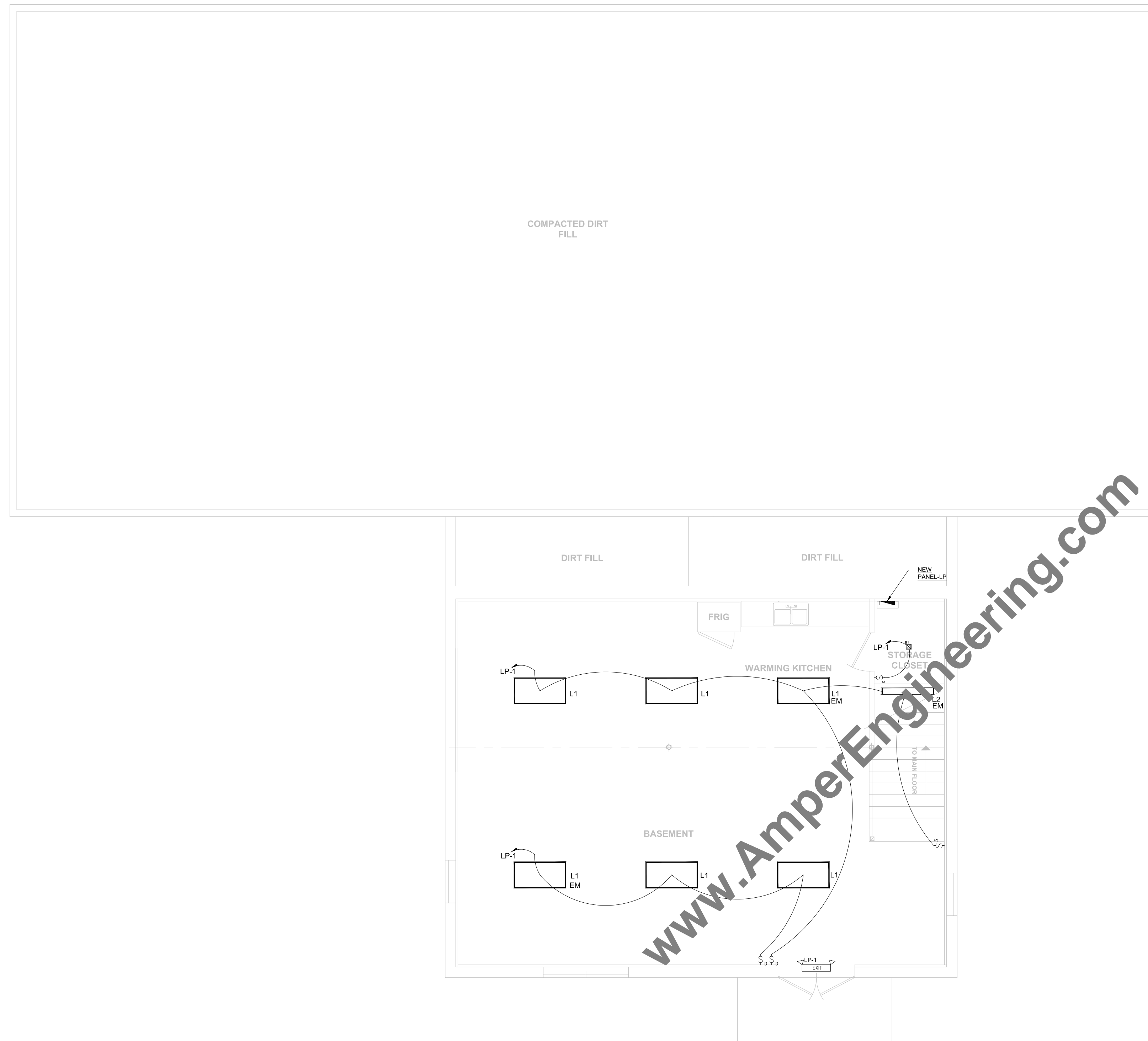


NEW ELECTRICAL PANEL "LP "															
MANUFACTURER:										BUS RATING: 100A					
TYPE/MODEL:										MAIN: 100A MCB					
MOUNTING: SURFACE										VOLTAGE: 240/120V					
ENCLOSURE: SURFACE										FED FROM: EXISTING PANEL					
LOCATION: STORAGE CLOSET															
CKT NO.	LOAD DESCRIPTION	NO. POLES	CB AMPS	CONT.VA	NON CONT.VA	LOAD VA	WIRE SIZE	WIRE SIZE	LOAD VA	NON CONT.VA	CONT.VA	CB AMPS	NO. POLES	LOAD DESCRIPTION	CKT NO.
1	BASEMENT LIGHTING	1	20	350.00		350.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	600.00		600.00	20	1	FIRST FLOOR LIGHTING	2
3	BASEMENT AREA RECEPTACLES	1	20		900.00	900.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	800.00	800.00		20	1	REFRIGERATOR RECEPTACLES	4
5	KITCHEN RECEPTACLES	1	20		180.00	180.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	180.00	180.00		20	1	KITCHEN RECEPTACLES	6
7	KITCHEN RECEPTACLES	1	20		180.00	180.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	180.00	180.00		20	1	STORAGE RECEPTACLES (BASEMENT)	8
9	CLASS ROOM #3 RECEPTACLES	1	20		1080.00	1080.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	1080.00	1080.00		20	1	CLASSROOM #4 RECEPTACLES	10
11	GIRL'S RESTROOM RECEPTACLE	1	20		180.00	180.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	180.00	180.00		20	1	BOYS' RESTROOM RECEPTACLE	12
13	HALL-WAY RECEPTACLES	1	20		720.00	720.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	500.00	500.00		20	1	DRINKING FOUNTAIN RECEPTACLES	14
15	B-1 (BOILER)	1	20	300.00		300.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	670.00		670.00	20	1	P-1 (CIRCULATING PUMP)	16
17	P-2 (CIRCULATING PUMP)	1	20	1600.00		1600.00	(2) #12 AWG CU & (1) #12 AWG CU GND	(2) #12 AWG CU & (1) #12 AWG CU GND	500.00	500.00		20	1	WH-1 (WATER HEATER)	18
19	SPARE	1	20									20	1	SPARE	20
21	SPARE	1	20									20	1	SPARE	22
23	SPARE	1	20									20	1	SPARE	24
DEMAND LOAD(VA):				11060.00											
DEMAND AMP:				46.08											
				2250.00	3240.00					3420.00	1270.00				

BLUE MOUNTAIN SCHOOL- LIGHTING FIXTURE SCHEDULE										
SYMBOL	TYPE	DESCRIPTION	LOCATION	LAMP/POWER	WATT	REMARKS	BASEMENT	1ST FLOOR	TOTAL	TOTAL WATT
	L1	2 X 4 LED LIGHT	BASEMENT CLASSROOM	50W MAX LED	50	WITH EMERGENCY BATTERY PACK WHERE REQUIRED	6	7	13	650
	B1	LED DOWN LIGHT	BOYS AND GIRLS RESTROOM, STORAGE	20W MAX LED	20	WITH EMERGENCY BATTERY PACK WHERE REQUIRED	1	5	6	120
	P1	LED PENDANT LIGHT	LOBBY & UTILITIES	30W MAX LED	30	WITH EMERGENCY BATTERY PACK WHERE REQUIRED	0	5	5	150
	L2	LED SURFACE LIGHT	STAIRS	30W MAX LED	30	WITH EMERGENCY BATTERY PACK WHERE REQUIRED	1	0	1	30
										990



ENGINEER:	Jak
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.:	
PROPOSED ADDITION FOR:	BL MOUNTAIN SCHOOL
ROAD:	ROAD
NEW TRIPOLI, PA 18066	
AE JOB#1211	
DATE ISSUED:	10-05-2020
DESIGNED BY:	JAK
DRAWN BY:	JAK
DRAWING TITLE:	ELECTRICAL SCHEDULE AND DETAILS
DRAWING NUMBER:	E-001



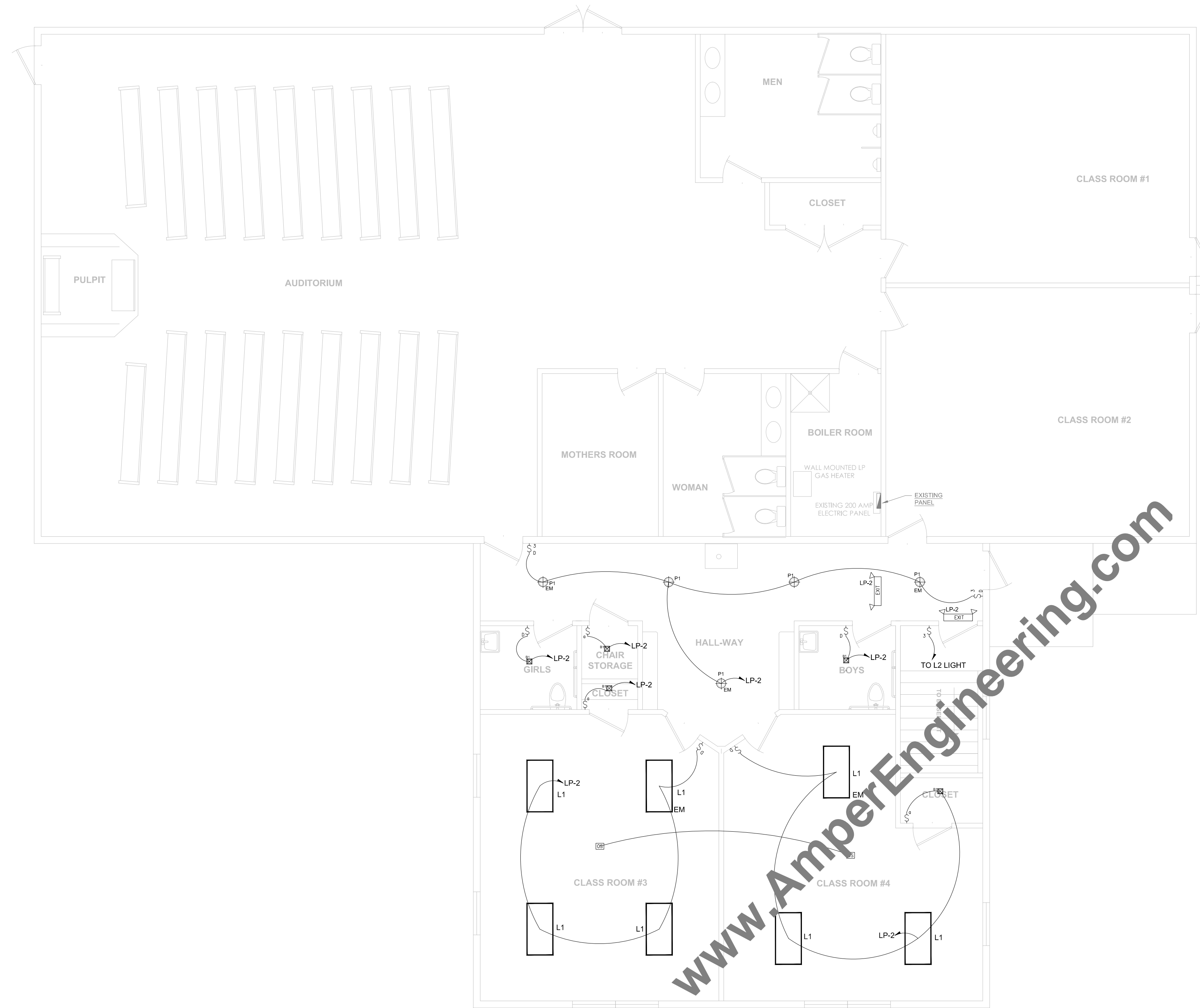
1 LIGHTING BASEMENT FLOOR PLAN
 E-101 SCALE: 3/16" = 1'-0"

ENGINEER:	Jan
PROJECT COORDINATOR:	J
DATE	
REVISION	
NO.	

PROPOSED ADDITION
 FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED:
 10-05-2020
 DESIGNED BY:
 JAK
 DRAWN BY:
 JAK
 DRAWING TITLE:
 LIGHTING
 BASEMENT
 FLOOR PLAN
 DRAWING NUMBER:

E-101



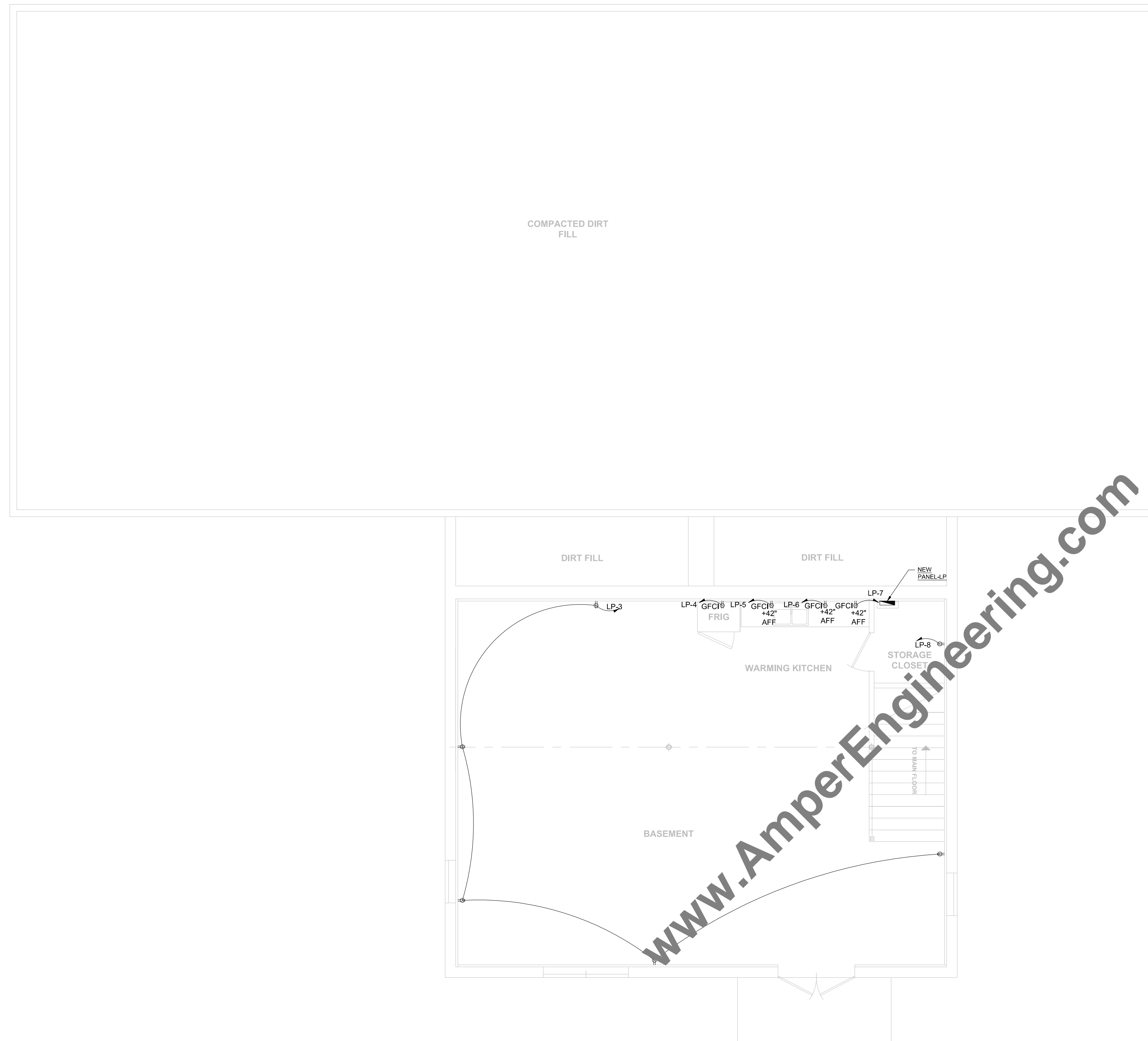
1 LIGHTING FIRST FLOOR PLAN
 E-102 SCALE: 3/16" = 1'-0"

ENGINEER:	Jak
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.:	

PROPOSED ADDITION
 FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
DATE ISSUED: 10-05-2020
DESIGNED BY: JAK
DRAWN BY: JAK
DRAWING TITLE: LIGHTING FIRST FLOOR PLAN
DRAWING NUMBER:

E-102



1 POWER BASEMENT FLOOR PLAN
 E-103 SCALE: 3/16" = 1'-0"

ENGINEER:	Jak
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.:	

PROPOSED ADDITION
 FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED:
 10-05-2020
 DESIGNED BY:
 JAK
 DRAWN BY:
 JAK
 DRAWING TITLE:
 POWER
 BASEMENT
 FLOOR PLAN
 DRAWING NUMBER:

E-103



1 POWER FIRST FLOOR PLAN
 E-104 SCALE: 3/16" = 1'-0"

www.AmperEngineering.com

ENGINEER:	Jan
PROJECT COORDINATOR:	J
DATE:	
REVISION:	
NO.:	

PROPOSED ADDITION
 FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED:
 10-05-2020
 DESIGNED BY:
 JAK
 DRAWN BY:
 JAK
 DRAWING TITLE:
 POWER
 FIRST FLOOR PLAN
 DRAWING NUMBER:

E-104

COMcheck Software Version 4.1.4.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: BLUE MOUNTAIN SCHOOL
 Project Type: Alteration

Construction Site: 5499 OWL VALLEY ROAD
 NEW TRIPOLI, PA 18066
 Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-BASEMENT/KITCHEN (Common Space Types:Dining Area - Cafeteria/Fast Food)	1060	0.65	689
2-STORAGE CLOSET (Common Space Types:Storage >=50 - <=1000 sq.ft.)	93	0.63	59
3-RESTROOMS (Common Space Types:Restrooms)	100	0.98	98
4-HALLWAY (Common Space Types:Corridor/Transition >=8 ft wide)	330	0.66	218
5-STAIR (Common Space Types:Stairwell)	75	0.69	52
6-CLASS ROOM (Common Space Types:Classroom/Lecture/Training)	822	1.24	1019
Total Allowed Watts =			2134

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
BASEMENT/KITCHEN (Common Space Types:Dining Area - Cafeteria/Fast Food 1060 sq.ft.)				
LED 1: L1: 2'x4 LED LIGHT Other:	1	6	50	300
STORAGE CLOSET (Common Space Types:Storage >=50 - <=1000 sq.ft. 93 sq.ft.)				
LED 2: B1: LED DOWN LIGHT Other:	1	4	20	80
RESTROOMS (Common Space Types:Restrooms 100 sq.ft.)				
LED 2: B1: LED DOWN LIGHT Other:	1	2	20	40
HALLWAY (Common Space Types:Corridor/Transition >=8 ft wide 330 sq.ft.)				
LED 9: P1: LED PENDANT LIGHT Other:	1	5	30	150
STAIR (Common Space Types:Stairwell 75 sq.ft.)				
LED 4: L2: LED SURFACE LIGHT Other:	1	1	30	30
CLASS ROOM (Common Space Types:Classroom/Lecture/Training 822 sq.ft.)				
LED 1: L1: 2'x4 LED LIGHT Other:	1	7	50	350
Total Proposed Watts =				950

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.4.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: BLUE MOUNTAIN SCHOOL Report date: 10/05/20
 Data filename: C:\Users\Admin\Dropbox\CD5 WORKING FILES\BLUE MOUNTAIN SCHOOL\WORKING FILE\BLUE MOUNTAIN Comcheck.cck Page 1 of 6

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F117]¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F118]¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting Fixture schedule for values.
C408.2.5.1 [F116]¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133]¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: BLUE MOUNTAIN SCHOOL Report date: 10/05/20
 Data filename: C:\Users\Admin\Dropbox\CD5 WORKING FILES\BLUE MOUNTAIN SCHOOL\WORKING FILE\BLUE MOUNTAIN Comcheck.cck Page 5 of 6

COMcheck Software Version 4.1.4.0
Inspection Checklist
 Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: BLUE MOUNTAIN SCHOOL Report date: 10/05/20
 Data filename: C:\Users\Admin\Dropbox\CD5 WORKING FILES\BLUE MOUNTAIN SCHOOL\WORKING FILE\BLUE MOUNTAIN Comcheck.cck Page 3 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15]¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18]¹	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, C405.2.2 [EL23]¹	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2.1 [EL22]¹	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [EL16]¹	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20]¹	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21]¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL4]¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL8]¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6]¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: BLUE MOUNTAIN SCHOOL Report date: 10/05/20
 Data filename: C:\Users\Admin\Dropbox\CD5 WORKING FILES\BLUE MOUNTAIN SCHOOL\WORKING FILE\BLUE MOUNTAIN Comcheck.cck Page 4 of 6

ri

ENGINEER:

Jan

PROJECT COORDINATOR:

DATE

REVISION

NO.

PROPOSED ADDITION FOR
 BLUE MOUNTAIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211

DATE ISSUED:
 10-05-2020

DESIGNED BY:
 JAK

DRAWN BY:
 JAK

DRAWING TITLE:
 COMCHECK REPORT

DRAWING NUMBER:

E-105

www.AmperEngineering.com

PLUMBING GENERAL NOTES:

- THE SYMBOLS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEM, WHETHER SPECIFIED OR NOT.
- REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATION FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES BEFORE INSTALLATION OR MAKE-UP OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON THE ARCHITECTURAL PLANS.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURE.
- FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE BALL VALVES FOR ALL WATER ISOLATION AND SUPPLY TAKEOFFS.
- COORDINATE ALL PLUMBING ROUTING WITH GENERAL CONTRACTOR AND OTHER TRADES. PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE SPECIFIC LOCATION OF PIPE. COORDINATE ROUTING OF ALL PIPING WITH ALL OTHER TRADES BEFORE INSTALLATION.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- VALVE SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANEL.
- VERIFY LOCATION AND DEPTH OF UTILITIES AT A POINT OF CONNECTION BEFORE START OF PIPING INSTALLATION.

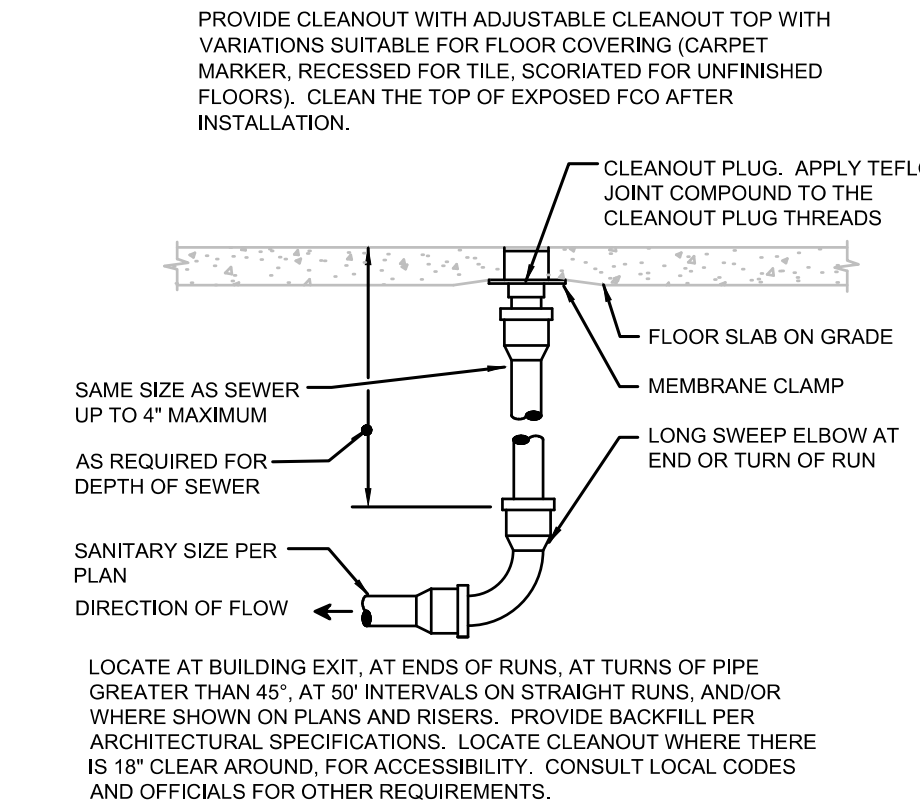
PLUMBING SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	CW COLD WATER
	HW HOT WATER
	SAN SANITARY
	V VENT
	PIPE CONTINUATION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	WATER HAMMER ARRESTOR
	VACUUM BREAKER

PLUMBING ROUGH-IN SCHEDULE					
FIXTURE TYPE	DOMESTIC C.W.	DOMESTIC H.W.	SANITARY	VENT	REMARK
WC	1"	-	4"	2"	TANK TYPE-PUBLIC
LAV	3/8"	3/8"	1 1/4"	1 1/4"	NOTE 1 & 2
KS	1/2"	1/2"	1 1/2"	1 1/2"	NOTE 1 & 2 (KITCHEN TYPE SINK)
FD	-	-	2"	1 1/2"	-

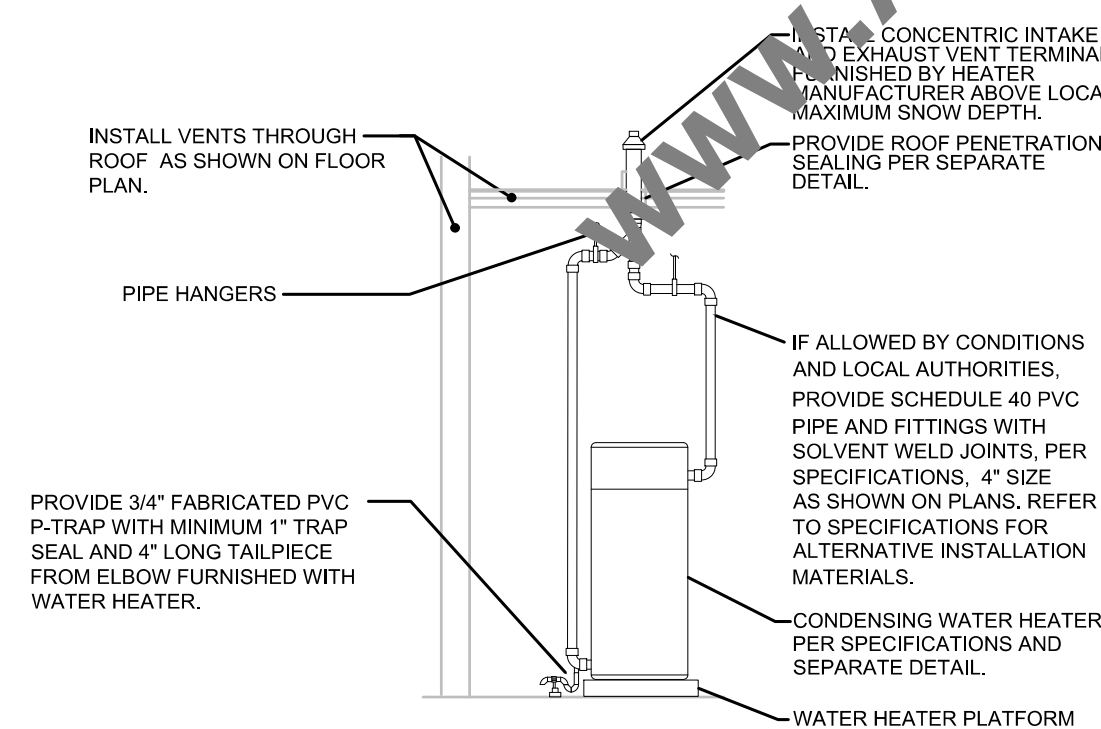
NOTES:
 1. SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2".
 2. 1/2" CW AND HW APPLIES TO THE FINAL VERTICAL RISER-DROP TO EACH FIXTURE. BRANCH PIPING TO VERTICAL DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE.
 3. SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT AREA LARGER THAN THE SIZE IS LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

GAS WATER HEATER SCHEDULE							
TAG	MANUFACTURER	MODEL	INPUT BTUH	TYPE OF GAS	STORAGE (GALLONS)	RECOVERY @ 80°F RISE GPH	NOTES
WH-1	A.O. SMITH	BTH-120	1,99,000	LIQUID PROPANE	60	8	1 TO 5

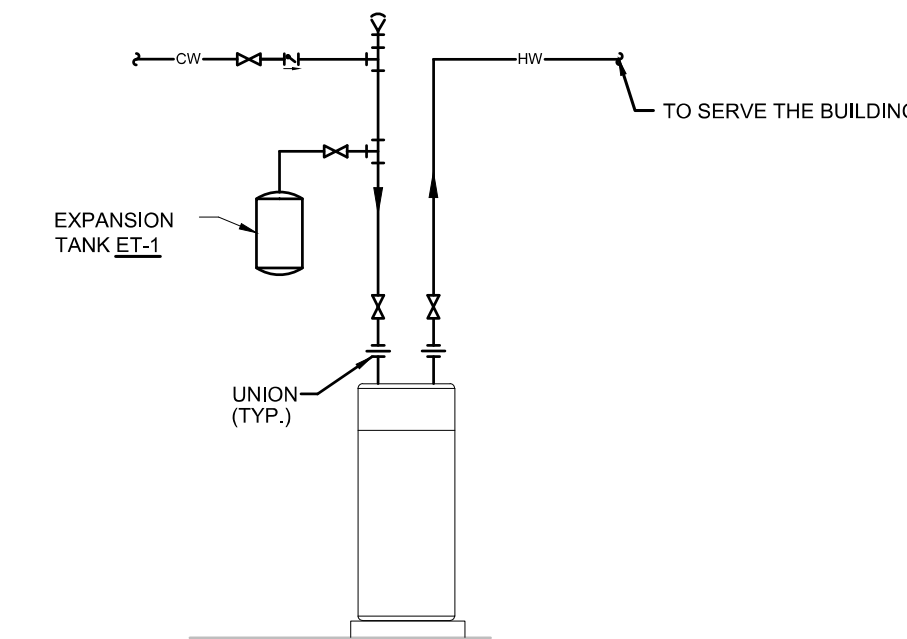
NOTES:
 1. GAS SUPPLY PRESSURE RANGE IS 8.5" MIN - 14" MAX.
 2. PROVIDE CONCENTRIC VENT ASSEMBLY FOR INTAKE AND EXHAUST.
 3. SET WATER HEATER DISCHARGE TEMPERATURE AT 120 F.
 4. PROVIDE 120V CIRCUIT FOR BLOWER AND CONTROLS HARD-WIRED.
 5. PROVIDE CONDENSATE DRAIN NEUTRALIZATION KIT.



1 FLOOR CLEANOUT
NO SCALE



2 GAS WATER HEATER VENTING DETAIL
NO SCALE



3 GAS WATER HEATER PIPING DETAIL
NO SCALE

DRAWING INDEX:

- P-000 PLUMBING COVER SHEET, DETAILS AND SCHEDULE
- P-101 WASTE WATER BASEMENT FLOOR PLAN.
- P-102 WASTE WATER FIRST FLOOR PLAN.
- P-103 DOMESTIC WATER BASEMENT FLOOR PLAN.
- P-104 DOMESTIC WATER FIRST FLOOR PLAN.
- P-300 PLUMBING RISERS.

ENGINEER:

Jak

PROJECT COORDINATOR:

DATE:

REVISION:

NO.:

PROPOSED ADDITION FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211

DATE ISSUED:
10-05-2020

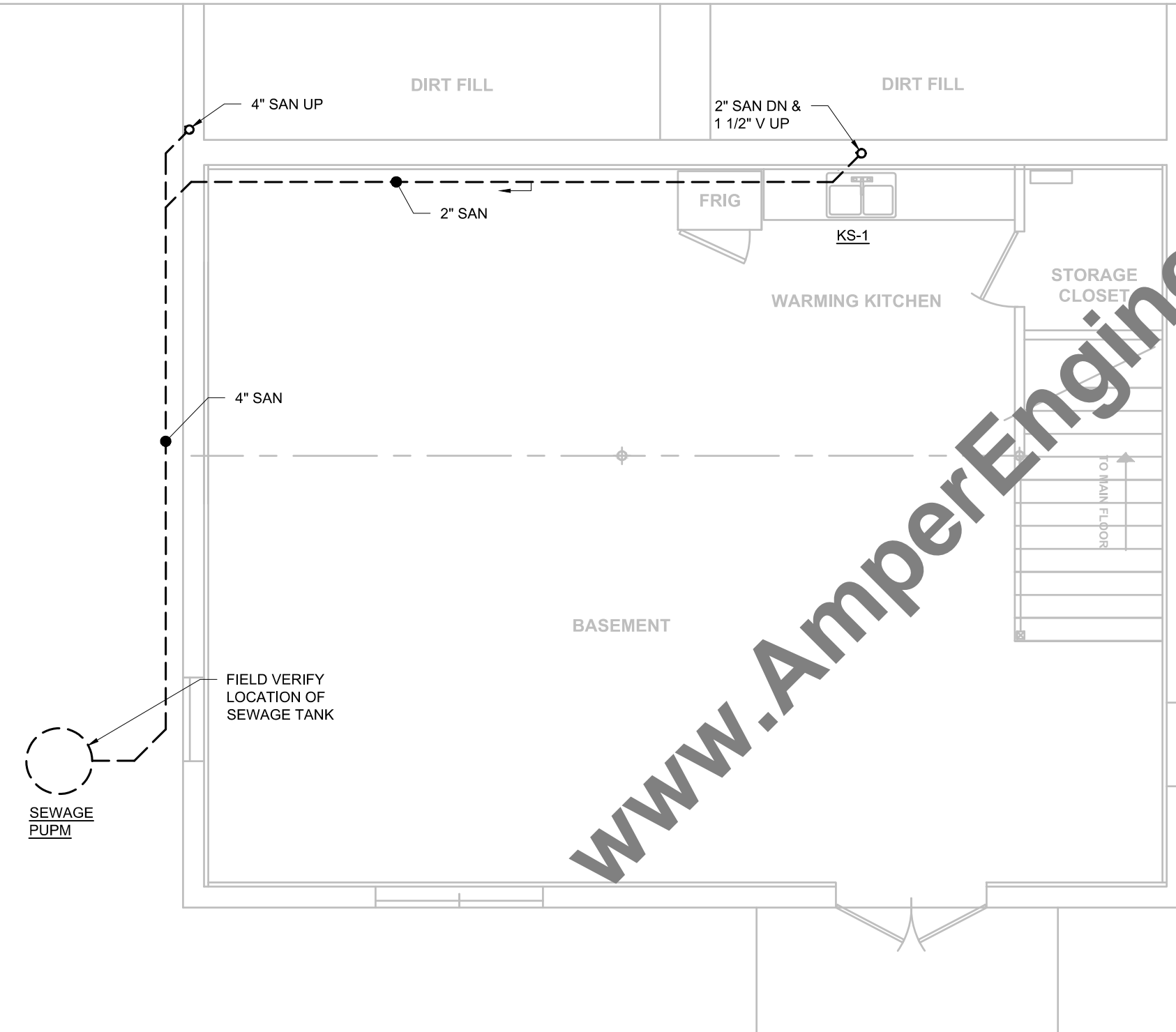
DESIGNED BY:
JAK

DRAWN BY:
JAK

DRAWING TITLE:
PLUMBING COVER SHEET, DETAILS AND SCHEDULE

DRAWING NUMBER:

P-000



1 WASTE WATER BASEMENT FLOOR PLAN
 P-101 SCALE: 3/16" = 1'-0"

www.AmperEngineering.com

ENGINEER:	Jak
PROJECT COORDINATOR:	J
DATE	
REVISION	
NO.	

PROPOSED ADDITION
 FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED:
 10-05-2020
 DESIGNED BY:
 JAK
 DRAWN BY:
 JAK
 DRAWING TITLE:
 WASTE WATER
 BASEMENT
 FLOOR PLAN
 DRAWING NUMBER:

P-101



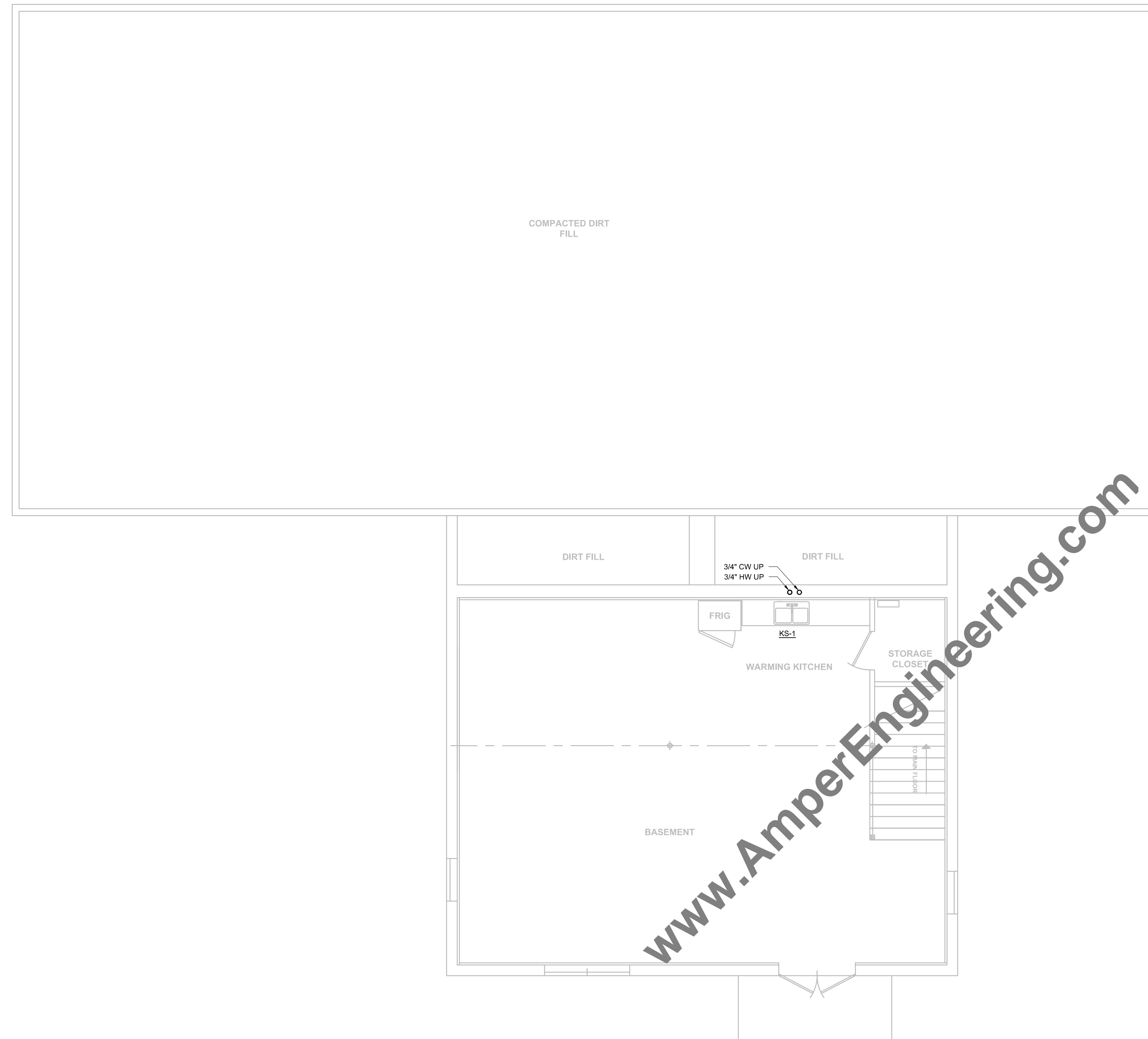
1 WASTE WATER FIRST FLOOR PLAN
 P-102 SCALE: 3/16" = 1'-0"

ENGINEER:	Jak
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.:	

PROPOSED ADDITION
 FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED:
 10-05-2020
 DESIGNED BY:
 JAK
 DRAWN BY:
 JAK
 DRAWING TITLE:
 WASTE WATER
 FIRST FLOOR PLAN
 DRAWING NUMBER:

P-102



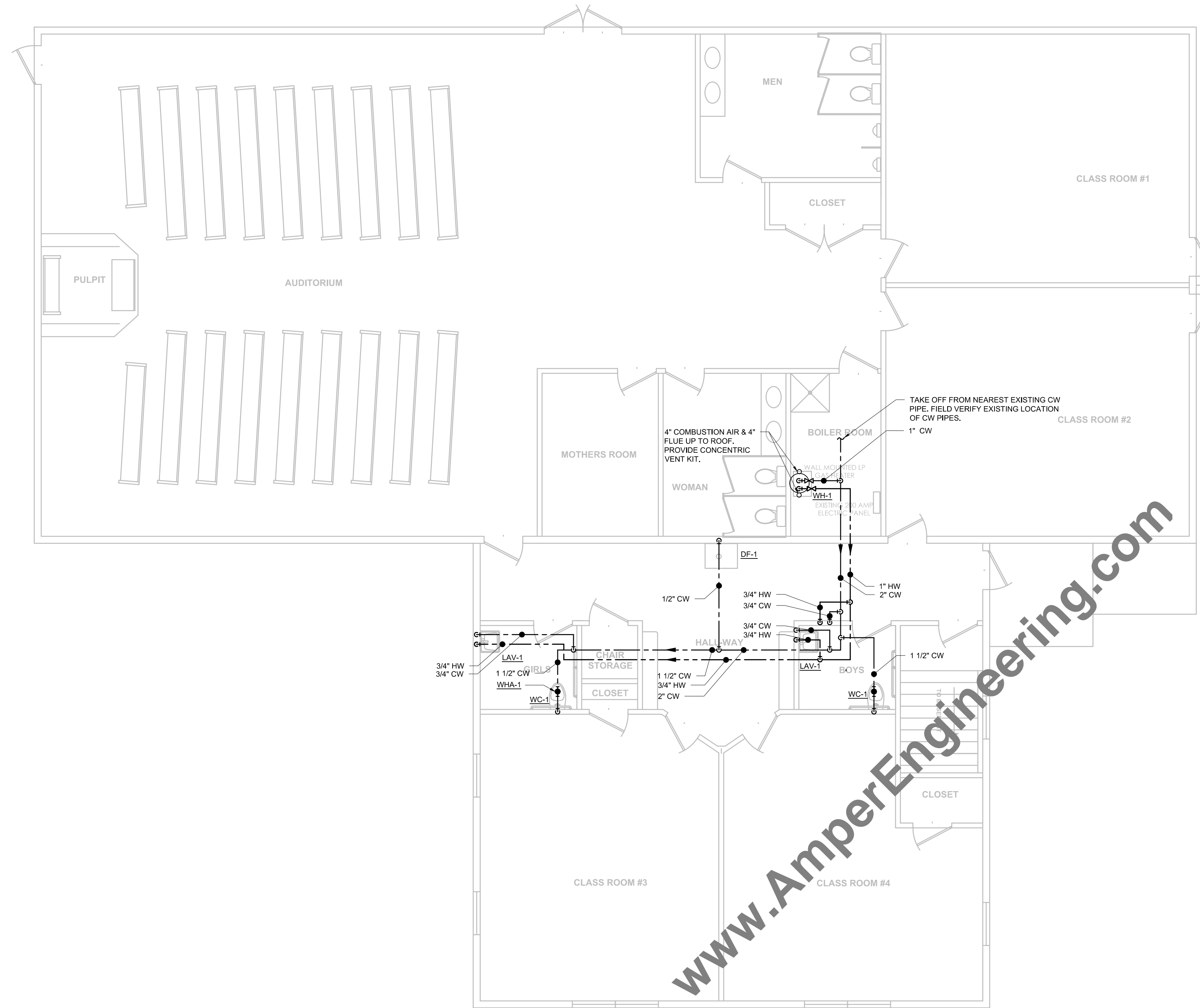
1 DOMESTIC WATER BASEMENT FLOOR PLAN
 P-103 SCALE: 3/16" = 1'-0"

ENGINEER:	Jak
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.	

PROPOSED ADDITION
 FOR
BL AIN SCHOOL
 ROAD
 NEW TRIPOLI, PA 18066

AE JOB#1211
 DATE ISSUED:
 10-05-2020
 DESIGNED BY:
 JAK
 DRAWN BY:
 JAK
 DRAWING TITLE:
 DOMESTIC WATER
 BASEMENT
 FLOOR PLAN
 DRAWING NUMBER:

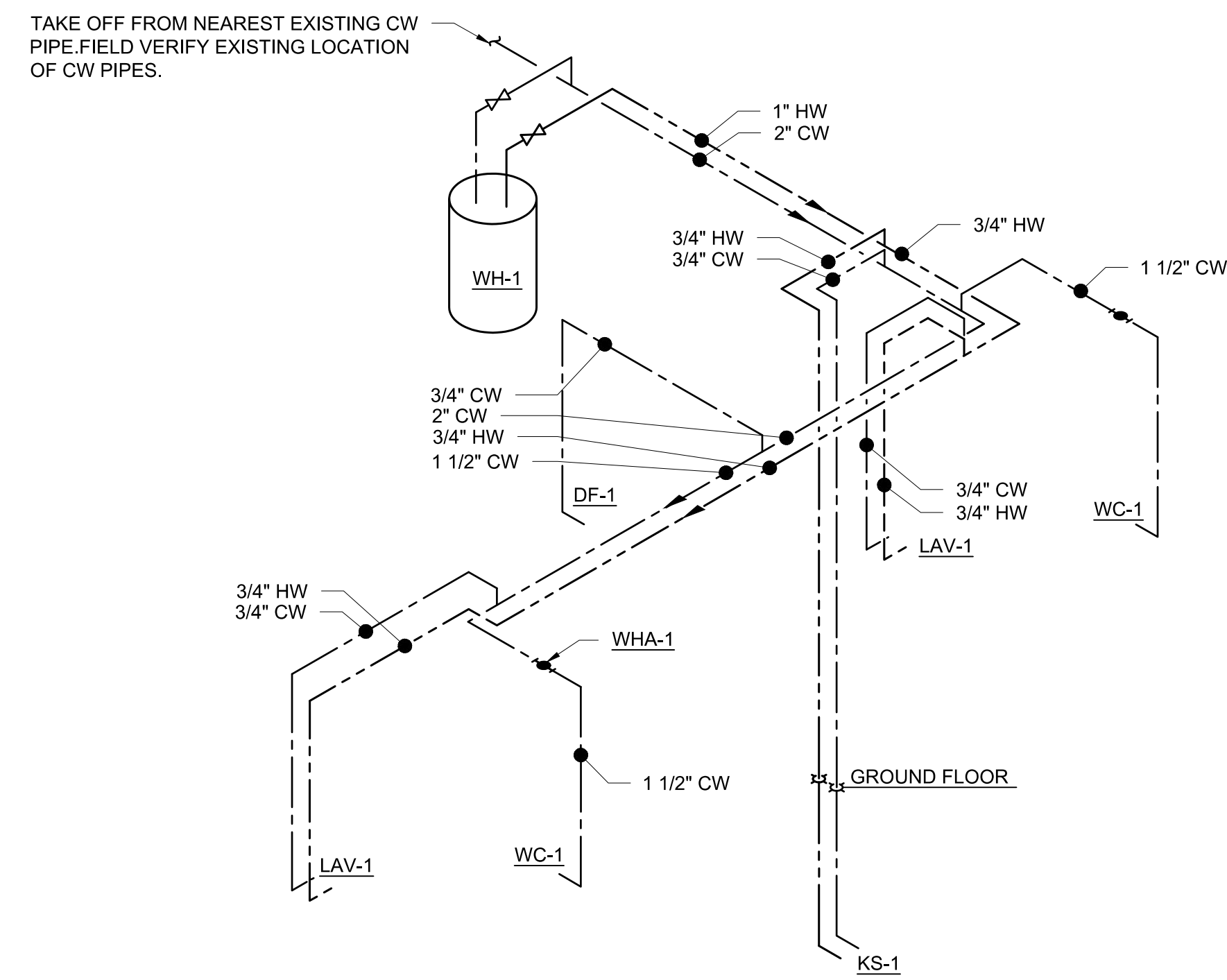
P-103



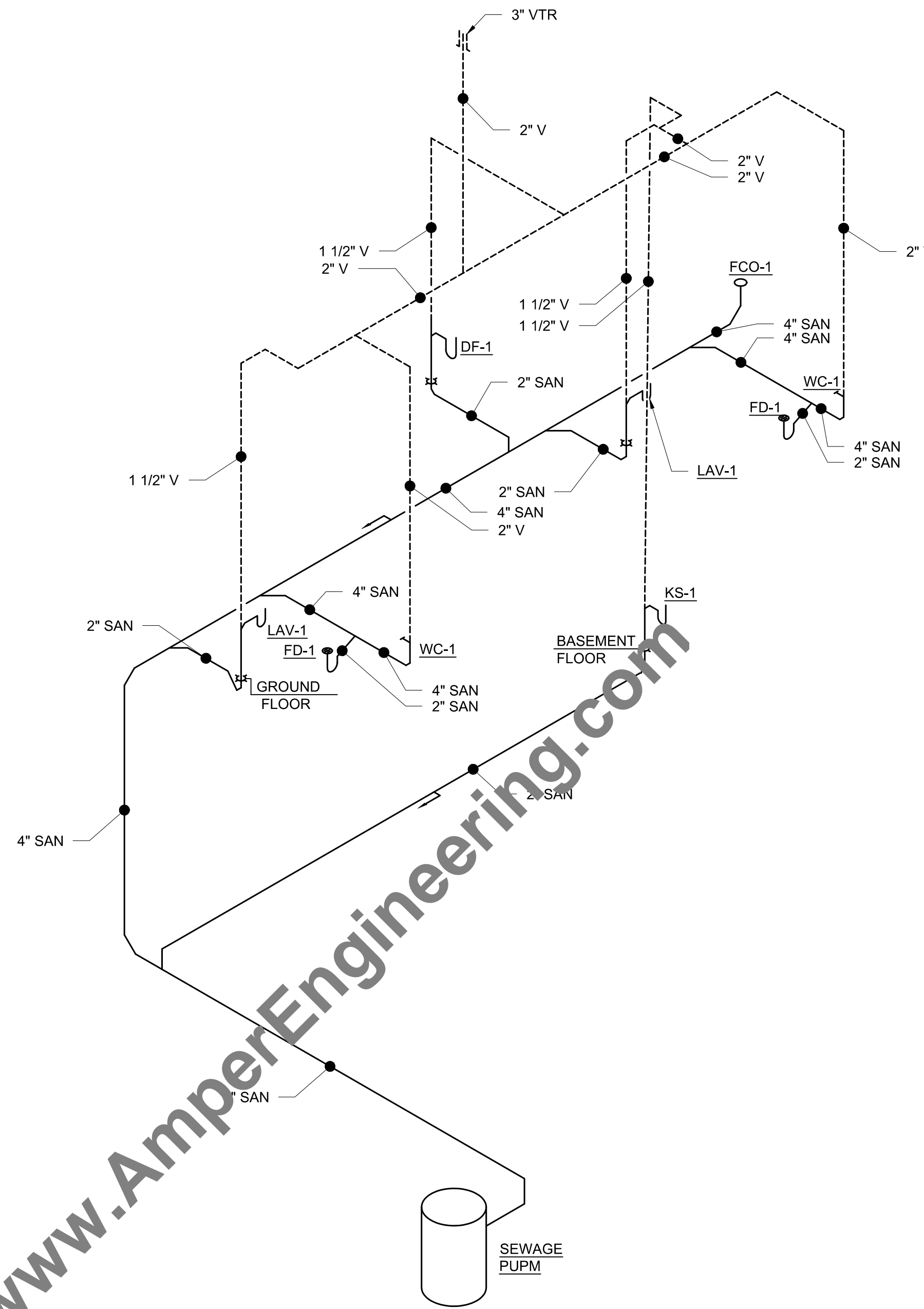
1 DOMESTIC WATER FIRST FLOOR PLAN
 P-104 SCALE: 3/16" = 1'-0"

ENGINEER:	Jak
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.:	
PROPOSED ADDITION FOR:	AIN SCHOOL
ROAD:	ROAD
NEW TRIPOLI, PA 18066	
AE JOB#1211	
DATE ISSUED:	10-05-2020
DESIGNED BY:	JAK
DRAWN BY:	JAK
DRAWING TITLE:	DOMESTIC WATER FIRST FLOOR PLAN
DRAWING NUMBER:	

P-104



1 DOMESTIC WATER RISER DIAGRAM
 P-300 SCALE: N.T.S



2 WASTE WATER RISER DIAGRAM
 P-300 SCALE: N.T.S

ENGINEER:	Jak
PROJECT COORDINATOR:	
DATE:	
REVISION:	
NO.:	
PROPOSED ADDITION FOR:	AIN SCHOOL
ROAD:	ROAD
NEW TRIPOLI, PA 18066	
AE JOB#1211	
DATE ISSUED:	10-05-2020
DESIGNED BY:	JAK
DRAWN BY:	JAK
DRAWING TITLE:	PLUMBING RISERS
DRAWING NUMBER:	

P-300