

CITY OF BALTIMORE  
DEPARTMENT OF GENERAL SERVICES  
CAPITAL PROJECTS AND ENERGY DIVISION




CONTRACT NO. GS 21828

ENGINE 33 ELECTRICAL UPGRADES  
BALTIMORE CITY FIRE DEPARTMENT

1223 N MONTFORD AVENUE  
BALTIMORE, MD 21213

FOR  
THE MAYOR AND CITY COUNCIL  
BRANDON M. SCOTT, MAYOR

| REVISIONS |      |             |
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| <div><div><div><div></div></div><div>Gipe Associates, Inc.</div><div>CONSULTING ENGINEERS</div></div><div><div>1220 East Joppa Road, Suite 102</div><div>Towson, Maryland 21206</div><div>Baltimore, Maryland</div><div>Edison, Maryland</div><div>W.O.# 19036C</div></div><div><div>www.gipe.net</div><div>410.832.2420</div><div>410.832.8688</div></div></div> <div><div>THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO GIPE ASSOCIATES, INC. AND SHALL NOT BE ALTERED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF GIPE ASSOCIATES, INC. Copyright © 2022</div></div> | PROFESSIONAL<br>CERTIFICATION | USER AGENCY |  | <div>Craig Keenan</div> <div>PROJECT MANAGER<br/>DESIGN SECTION</div> | <div>Terence Abraham</div> <div>CONSTRUCTION MANAGER<br/>CONSTRUCTION SECTION</div> | <div>SECTION CHIEF,<br/>DESIGN SECTION</div> | <div>Marwan Alkharajat</div> <div>03/30/2010</div> <div>DIVISION CHIEF,<br/>CAPITAL PROJECTS AND<br/>ENERGY DIVISION</div> | <div></div> <div>DIRECTOR,<br/>DEPARTMENT OF GENERAL SERVICES</div> | 03/28/2022 |  |  |  |  |  |
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CONTRACT NO. GS 21828

PROJECT TITLE: ENGINE 33 ELECTRICAL UPGRADES

CONSULTANTS

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Consulting Engineers

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ARCHITECTURE

KPN

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 20555. EXP. DATE: 01-15-2025.

SEAL

CITY OF BALTIMORE

DEPARTMENT OF

GENERAL SERVICES

CAPITAL PROJECTS

AND ENERGY DIVISION

ENGINE 33

ELECTRICAL UPGRADES

BALTIMORE CITY FIRE DEPARTMENT

1223 N MONTFORD AVENUE

BALTIMORE, MARYLAND 21213

CONTRACT NO. GS 21828

03/28/2022

SHEET

CS-001

01 OF 06



PROJECT NOTES

GENERAL NOTES & CONDITIONS

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS AND REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
- THE CONTRACTOR IS CAUTIONED THAT THE WORK INCLUDES ALTERATIONS TO AN EXISTING FACILITY. THE CONTRACTORS SHALL VISIT THE SITE TO DETERMINE ACTUAL FIELD CONDITIONS, AND CHECK THE ACCURACY OF THE EXISTING CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THEM OF THE RESPONSIBILITY FOR CARRYING OUT ANY AND ALL WORK SHOWN, NOTED OR SPECIFIED.
- THE INTENT OF THESE DRAWINGS IS FOR THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIAL, FINISHES, EQUIPMENT, INSTALLATION AND SERVICES NECESSARY FOR AND INCIDENTAL WITH THE WORK, TO PROVIDE THE DGS CONSTRUCTION MANAGER WITH A COMPLETE PROJECT INCLUSIVE OF ALL SYSTEMS.
- ACTUAL FIELD CONDITIONS MAY VARY FROM THOSE INDICATED. SHOULD ACTUAL CONDITIONS DIFFER FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CONTRACTOR PROVIDED FOR IN THE CONTRACT, THE CONTRACTOR SHALL PROMPTLY, BEFORE CONDITIONS ARE DISTURBED, NOTIFY THE CONSTRUCTION MANAGER. FAILURE TO DO SO MAY WAIVE THE CONTRACTOR'S RIGHT TO RECEIVE ADDITIONAL TIME OR CONSIDERATION DUE TO SUCH CONDITIONS.
- PRIOR TO INITIATING ANY PORTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE ALL PORTIONS OF THE CONTRACT DOCUMENTS RELATING TO THAT PORTION OF THE WORK AND AFFECTING ADJOINING PORTIONS. IF DISCREPANCIES EXIST, THEY SHALL BE REPORTED TO THE ENGINEER AND DGS CONSTRUCTION MANAGER FOR CLARIFICATION AND/OR RESOLUTION BEFORE COMMENCING SUCH WORK.
- BY SUBMITTING A BID PROPOSAL THE CONTRACTOR CERTIFIES THAT THEY ARE FAMILIAR WITH THE EXISTING CONDITIONS OF THE SITE AND UNDERSTAND THE COMPLETE SCOPE OF WORK, WHICH IS INCLUDED IN THE PROPOSAL.
- DEFINITIONS: "PROVIDE" MEANS "FURNISH AND INSTALL". "VERIFY" MEANS "VERIFY IN THE FIELD AND COORDINATE DIMENSIONS AND DISCREPANCIES".
- THESE NOTES AND OTHER NOTES ON THE DRAWINGS ARE DIRECTIONS FOR THE CONTRACTOR'S PERFORMANCE, UNLESS NOTED OTHERWISE (U.N.O.). FOR EXAMPLE, THE VERB "INSTALL" MEANS "CONTRACTOR SHALL INSTALL", "RELOCATE" MEANS "CONTRACTOR SHALL RELOCATE", ETC.
- UNLESS NOTED OTHERWISE, NUMBERED DIMENSIONS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER SCALED DRAWINGS. DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. IF CONFLICT EXISTS ON THE DRAWINGS, THEN THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL INTERPRETATION SHALL BE MADE BY THE ENGINEER.
- SAMPLES AND SHOP DRAWINGS MUST BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND PROCESSING BEFORE THE PURCHASE OR FABRICATION OF ANY MATERIALS.
- DIMENSIONS OF EXISTING OPENINGS SHALL BE VERIFIED PRIOR TO PREPARATION OF SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE A SCHEDULE OF ACTUAL OPENING DIMENSIONS AS VERIFIED IN FIELD.
- DURING THE WORK, ANY CONDITION UNCOVERED THAT CAUSES CONFLICT WITH THE INTENDED DESIGN MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AS TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.
- EXCEPT FOR PRE-FINISHED SURFACES, ALL ITEMS DISTURBED OR DAMAGED BY WORK SHALL BE REFINISHED TO MATCH SURROUNDING AREA OR FINISHED AS INDICATED.
- REPAIRED AND NEW AREAS OF WALLS OR CEILINGS SHALL BE BLENDED AND FEATHERED INTO THE SURROUNDING AREA. THERE SHALL NOT BE ANY VISIBLE SEAMS OR CHANGE IN APPEARANCE BETWEEN THE REPAIRED OR NEW AREA AND THE SURROUNDING AREA WHEN VIEWED FROM A DISTANCE OF 3 FEET.
- ALL NEW AND EXISTING HOLES AND PENETRATIONS IN WALLS AND CEILING SURFACES SHALL BE PATCHED AND FIRE STOPPED.
- BEFORE COMMENCING ANY DEMOLITION, THE CONTRACTOR MUST COORDINATE DEMOLITION WITH PROPOSED WORK AND OTHER DISCIPLINES.
- THE ENGINEER SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES. CONTRACTOR TO CONTACT ENGINEER AND DGS CONSTRUCTION MANAGER IF THESE ITEMS ARE APPARENT OR SUSPECTED.
- ANY ALTERATION TO THE STRUCTURE (I.E., CORE DRILLING CONCRETE, ETC.) SHALL BE COORDINATED WITH THE DGS CONSTRUCTION MANAGER.
- IF THERE ARE OPERATIONS WHICH INVOLVE EXCESSIVE NOISE (I.E., SAW CUTTING CONCRETE, ETC.), IT SHALL BE COORDINATED WITH THE DGS CONSTRUCTION MANAGER TO BE PERFORMED DURING AN AGREED UPON TIMEFRAME.
- UNLESS OTHERWISE INDICATED ALL PIPING, CONDUIT, DUCTWORK AND SIMILAR SERVICES SHALL BE CONCEALED.
- PROVIDE DUST PROOF TEMPORARY CONSTRUCTION PARTITIONS IN AREAS TO BE DEMOLISHED - TO PREVENT DUST AND FUMES FROM ENTERING EXISTING BUILDING.
- GENERAL NOTES, THOSE FOUND ON THIS SHEET, APPLY TO ALL DRAWINGS RELATED TO THIS PROJECT.
- CONSTRUCTION NOTES SPECIFICALLY REFER TO ITEMS NOTED WITH NUMBER OR LETTER DESIGNATIONS ON THE RESPECTIVE DRAWING WHERE THE DESIGNATIONS ARE SHOWN.
- ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE BUILDING CODES:  
INTERNATIONAL BUILDING CODE 2018  
INTERNATIONAL ELECTRICAL CODE 2017  
INTERNATIONAL FIRE CODE 2018  
INTERNATIONAL GREEN CONSTRUCTION CODE 2018

GENERAL CONSTRUCTION NOTES:

- REPAIR EXISTING WALLS, CEILINGS, PAINTINGS, AND FLOORING/CARPETING AFFECTED BY DEMOLITION WORK, TO MATCH EXISTING. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING OR ADJACENT WORK, AND REPAIR OF THE SAME SHALL BE DONE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR MUST SCHEDULE CONSTRUCTION TRAFFIC AROUND TENANT WORK SCHEDULE. CONTRACTOR IS TO NOTE THAT THE FACILITY IS A FIRE STATION AND IS TO BE KEPT OPERATIONAL AND IN USE AT ALL TIMES DURING CONSTRUCTION. DOORS MAY NOT BE LOCKED IN THE DIRECTION OF EGRESS.
- LEAVE SPACE CLEAN ON COMPLETION, INCLUDING THE CLEANING OF GLASS, DOORS, FRAMES, FLOORS, BASE, AND LIGHT LENSES, ETC., VACUUM CARPETS.
- CONTRACTOR SHALL SEPARATE CONSTRUCTION AREA FROM EXISTING BUILDING WITH DUST PROOF BARRIERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF ALL MATERIALS. STAGING IN THE BUILDING IS NOT AVAILABLE OTHER THAN WHATEVER SPACE IS AVAILABLE ON THE FLOOR BEING WORKED ON AT THAT TIME.
- BUILDING WILL BE OCCUPIED THROUGHOUT THE CONSTRUCTION PERIOD. CONSTRUCTION WORK SHALL BE PHASED SO THAT WORK SHALL BE PERFORMED IN ONE AREA AT A TIME. CONTRACTOR SHALL PROVIDE DGS CONSTRUCTION MANAGER WITH SCHEDULE AT BEGINNING OF PROJECT OUTLINING WHEN WORK WILL BE PERFORMED IN EACH AREA TO ALLOW DGS CONSTRUCTION MANAGER TO COORDINATE WITH TENANTS.
- CONTRACTOR IS RESPONSIBLE FOR NOT ONLY PROTECTING FURNITURE BUT ALSO MOVING THE FURNITURE REQUIRED TO PERFORM WORK. ALL FURNITURE SHALL BE MOVED BACK TO IT ORIGINAL LOCATION BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH THE DGS CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH WORK.

PROJECT

ENGINE NO. 33  
ELECTRICAL UPGRADES  
BALTIMORE CITY FIRE DEPARTMENT  
1223 N. MONTFORD AVENUE  
BALTIMORE, MD 21213  
DGS PROJECT No. GS 21828

BID SUBMISSION

MARCH 28, 2022



ELECTRICAL

GIPE ASSOCIATES, INC.

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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 34699, EXPIRATION DATE: 07/16/2023. (KRISTOFER CURRERI)

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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 13720, EXPIRATION DATE: 01/30/2020.

DRAWING INDEX

GENERAL

CS-001 COVER SHEET  
TS-001 TITLE SHEET

ELECTRICAL

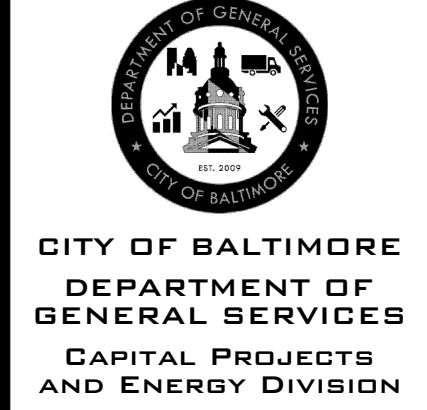
E-001 LEGEND, LIGHTING FIXTURE SCHEDULE & ABBREVIATIONS  
E-101 BASEMENT, FIRST & SECOND FLOOR PLANS ELECTRICAL DEMOLITION  
E-201 BASEMENT, FIRST & SECOND FLOOR PLANS ELECTRICAL NEW WORK  
E-301 RISER DIAGRAMS & PANELBOARD SCHEDULES

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SEAL



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TITLE SHEET

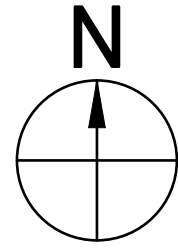
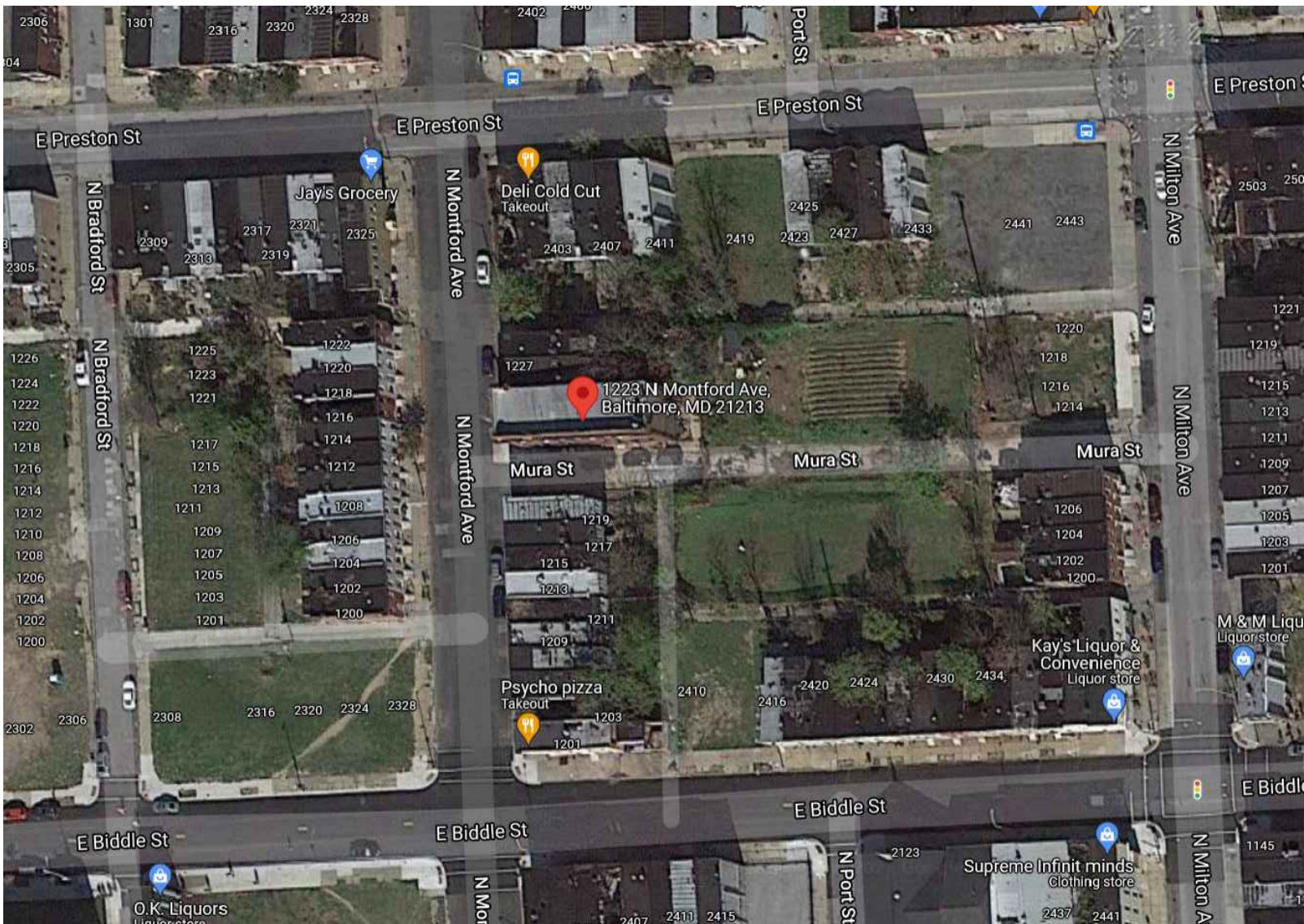
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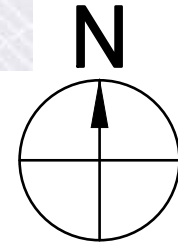
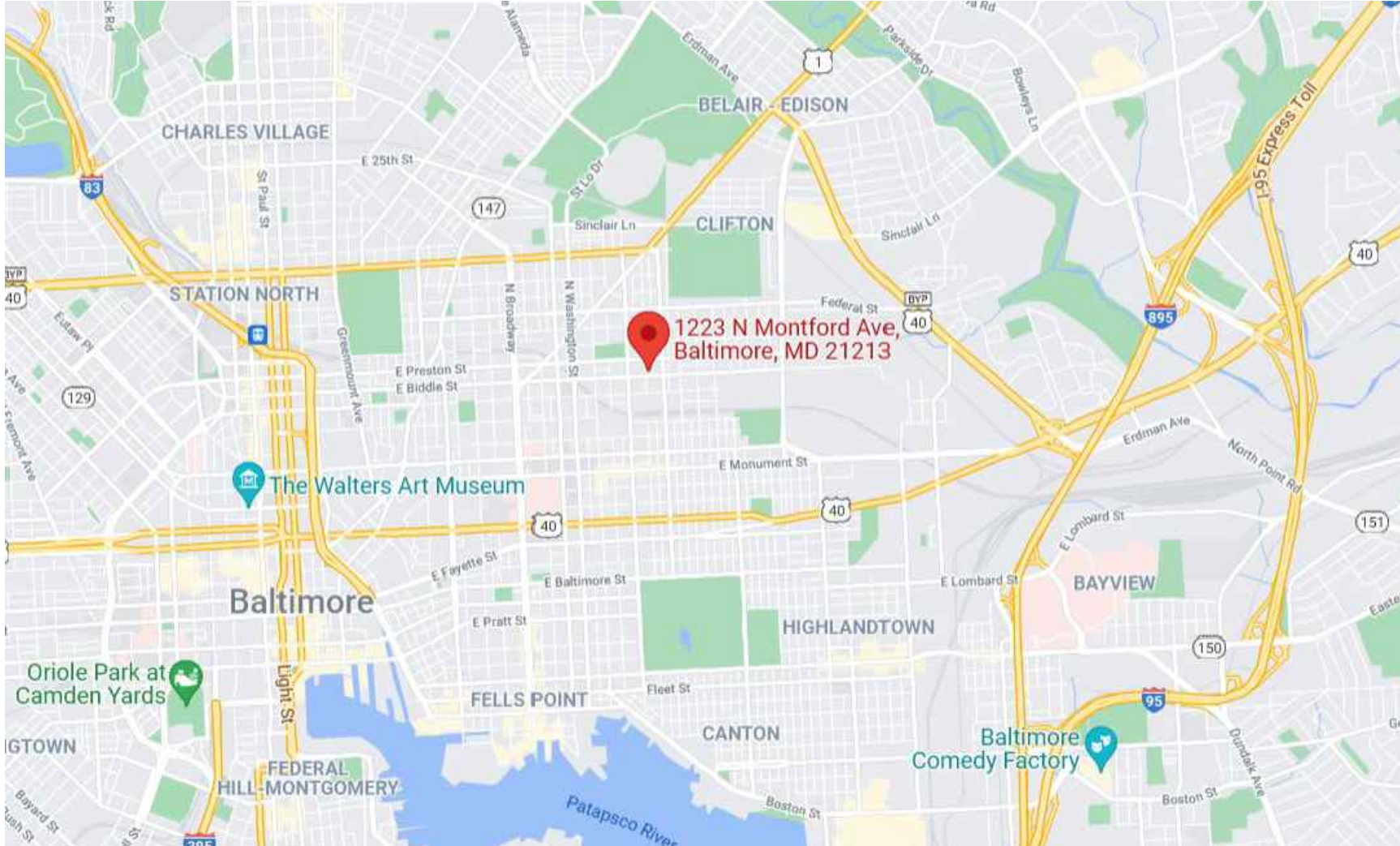
LOCATION MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE





GENERAL NOTES:

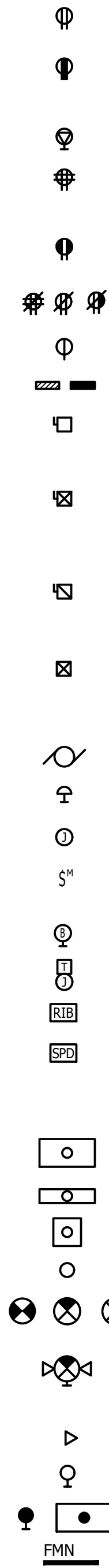
1. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON MECHANICAL, CIVIL, AND STRUCTURAL AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC. 20 AMPERE CIRCUITS SHALL BE SIZED AS FOLLOWS:

| 20 AMPERE CIRCUITS |           |                         |
|--------------------|-----------|-------------------------|
| 120 VOLT           |           | MINIMUM<br>CONDUIT SIZE |
| WIRING LENGTH      | WIRE SIZE |                         |
| 0' - 60'           | #12       |                         |
| 60' - 100'         | #10       |                         |
| 100' - 150'        | #8        |                         |
| 150' - 240'        | #6        |                         |
| OVER 240'          | #4        | 1"                      |

- WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND MAKE FINAL CONNECTIONS.
3. PROPERLY SUPPORT ALL EXISTING LV CABLING, INCLUDING BUT NOT LIMITED TO VOICE, DATA, VIDEO, CONTROLS, FIRE ALARM, SECURITY, CCTV, ETC. ABOVE CEILINGS.

DEMOLITION NOTES:

1. DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING ELECTRICAL WORK. EXISTING ELECTRICAL WORK SHALL REMAIN UNLESS WHEN AN ITEM IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED ELECTRICAL WORK BACK TO POINT OF SOURCE, UNLESS.
2. WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF THE BUILDING, OR WORK IN THE RENOVATION AREA INDICATED TO REMAIN, IT SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTORED TO NORMAL. COORDINATE ANY OUTAGES WITH DGS CONSTRUCTION MANAGER 7 DAYS IN ADVANCE.
3. WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.
4. VERIFY ALL EXISTING CONSTRUCTION RELATED CONDITIONS PRIOR TO DEMOLITION AND NEW CONSTRUCTION.
5. COORDINATE EXTENT OF DEMOLITION WITH NEW CONSTRUCTION DRAWINGS. PERFORM ALL NECESSARY DEMOLITION IN ORDER TO FULLY AND PROPERLY INSTALL ALL NEW WORK, REGARDLESS OF WHETHER OR NOT IT IS SHOWN AND/OR NOTED.
6. REMOVE FROM THE BUILDING AND THE CONSTRUCTION SITE, ALL CONSTRUCTION DEBRIS AND/OR ITEMS NOT TO BE RETAINED BY THE OWNER. THE OWNER WILL RETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE DGS CONSTRUCTION MANAGERS. THE DGS CONSTRUCTION MANAGER WILL DIRECT THE CONTRACTOR AS TO THE LOCATION OF STORAGE AREA FOR SALVAGED ITEMS.
7. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE OWNER TO MINIMIZE DISRUPTION OF THE NORMAL DAILY FUNCTIONING OF THE DGS CONSTRUCTION MANAGERS OCCUPIED AREAS.
8. ALL RECESSES, HOLES AND BOX OPENINGS IN EXISTING WALLS FROM REMOVAL OF EQUIPMENT, FIXTURES AND DEVICES NOT COVERED BY NEW WORK SHALL BE INFILLED AND PATCHED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUITY OF ALL POWER, CONTROL AND COMMUNICATION FUNCTIONS TO ALL AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.
10. THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM AND ASSOCIATED LIGHTING AND POWER DEVICES SHALL REMAIN IN USE AS THE REPLACEMENT ELECTRICAL SYSTEM AND DEVICES ARE INSTALLED. ONCE POWER IS SWITCHED OVER TO THE REPLACEMENT ELECTRICAL DISTRIBUTION SYSTEM, THE EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT AND DEVICES SHALL BE REMOVED.



POWER

- DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT 1'-6" AFF UON; SUBSCRIPT "U" - USB RECEPTACLE WITH (2) USB CHARGING OUTLETS.
- DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; WEATHERPROOF AND WEATHER RESISTANT; GROUND FAULT INTERRUPTING CIRCUIT MOUNT AT 1'-6" AFF UON.
- SPECIAL RECEPTACLE; TYPE AS NOTED. MOUNT AT 1'-6" AFF UON.
- DOUBLE DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT 1'-6" AFF UON; SUBSCRIPT "U" - USB RECEPTACLE WITH (4) USB CHARGING OUTLETS.
- DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; GROUND FAULT INTERRUPTING; MOUNT 1'-6" AFF UON.
- SLASH INDICATES DEVICE TO BE MOUNTED AT 42" AFF OR 6" ABOVE COUNTER UON.
- SIMPLEX RECEPTACLE; 1P, 3W, 20A, 125V, NEMA 5-20R; MOUNT 1'-6" AFF UON.
- PANELBOARD - M.H. 6'-6" AFF TO TOP OF PANEL
- SAFETY SWITCH, FUSED OR NON-FUSED, SIZE AS INDICATED ON DRAWINGS. ENCLOSURE SHALL BE NEMA 1 UON, MOUNT 5'-6" AFF TO TOP UNLESS OTHERWISE NOTED
- STARTER, COMBINATION STARTER FVNR TYPE NEMA SIZE 1 UNLESS OTHERWISE NOTED, WITH FUSED DISCONNECT SWITCH, H.O.A. SELECTOR SWITCH, RED & GREEN INDICATING LIGHTS AND CONTROL POWER TRANSFORMER IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED, M.H. 5'-6" AFF TO TOP
- ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED ON DRAWINGS. ENCLOSURE SHALL BE NEMA 1 UNLESS UON, MOUNT 5'-6" AFF TO TOP UNLESS OTHERWISE NOTED.
- STARTER, FVNR TYPE NEMA SIZE 1 UNLESS OTHERWISE NOTED, H.O.A. SELECTOR SWITCH, RED & GREEN INDICATING LIGHTS AND CONTROL POWER TRANSFORMER IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED, M.H. 5'-6" AFF TO TOP
- MOTOR
- EMERGENCY POWER OFF BUTTON - MOUNT 42" AFF UON
- JUNCTION BOX - CEILING, WALL MOUNTED
- MANUAL MOTOR STARTER WITH H.O.A. SELECTOR SWITCH IN NEMA 1 ENCLOSURE. MOUNT 4'-0" AFF TO TOP UNLESS OTHERWISE NOTED.
- FIREHOUSE BELL
- JUNCTION BOX WITH TRANSFORMER
- RELAY IN BOX
- SURGE PROTECTION DEVICE

LIGHTING

- FLUORESCENT FIXTURE - 2'x4', TYPE AS NOTED.
- FLUORESCENT FIXTURE - 1'x4', TYPE AS NOTED.
- FLUORESCENT FIXTURE - 2'x2', TYPE AS NOTED.
- CEILING MOUNTED DOWNLIGHT
- EXIT SIGN - CEILING, WALL MOUNTED - MOUNT 7'-6" AFF OR 6" ABOVE DOOR FRAME
- EXIT SIGN - CEILING, WALL MOUNTED - MOUNT 7'-6" AFF OR 6" ABOVE DOOR FRAME, WITH INTEGRAL EMERGENCY BATTERY AND EMERGENCY EGRESS LIGHTING.
- EMERGENCY EGRESS LIGHTING REMOTE HEAD; CEILING MOUNTED
- LIGHTING FIXTURE - WALL MOUNTED, TYPE AS NOTED.
- LIGHTING FIXTURES WITH INTEGRAL EMERGENCY BATTERY BALLAST/DRIVER
- CEILING MOUNTED FIRE STATION FIREMAN NOTIFICATION LIGHT

SWITCHES

- LINE VOLTAGE SWITCH; SINGLE LOAD UON, SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED PROVIDE NUMBER OF SWITCHES TO MATCH SUBSCRIPT MOUNT AT 4'-0" AFF TO TOP.
- LINE VOLTAGE DIMMER SWITCH; SINGLE LOAD UON, SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED PROVIDE NUMBER OF SWITCHES TO MATCH SUBSCRIPT MOUNT AT 4'-0" AFF TO TOP.
- LINE VOLTAGE TOGGLE SWITCH; SINGLE POLE, 3-WAY, 4-WAY; SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED; MOUNT AT 4'-0" AFF TO TOP.
- OCCUPANCY SENSOR, LINE VOLTAGE, DUAL TECHNOLOGY SINGLE LOAD, WALL SWITCH TYPE: MOUNT 4'-0" AFF TO TOP.
- OCCUPANCY SENSOR, LINE VOLTAGE, DUAL TECHNOLOGY SINGLE LOAD, CEILING MOUNTED.

CONDUIT

- HOMERUN TO PANELBOARD; NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
- BRANCH CIRCUIT CONDUIT AND WIRING CONCEALED IN CEILING OR WALL SPACE, OR SURFACE MOUNTED WHERE NO CEILING OR WALL SPACE EXISTS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
- BRANCH CIRCUIT CONDUIT AND WIRING IN SLAB, UNDER FLOOR OR UNDERGROUND; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES

FIRE ALARM

- SMOKE/CARBON MONOXIDE DETECTOR WITH STROBE - CEILING MOUNTED; SUBSCRIPT "S" DENOTES "SINGLE STATION", "M" DENOTES "MULTIPLE STATION" WITH RELAY
- CARBON MONOXIDE DETECTOR
- HEAT DETECTOR - CEILING MOUNTED

TELECOMMUNICATIONS

- SPEAKER; WALL MOUNTED, CEILING MOUNTED

MISCELLANEOUS

- DENOTES REFERENCE TO DRAWING NOTE
- ITEMS SHOWN DASHED/HEAVY ARE TO BE REMOVED
- ITEMS SHOWN SOLID/LIGHT ARE EXISTING TO REMAIN
- ITEMS SHOWN HEAVY ARE NEW WORK

- CIRCUIT NUMBERS ADJACENT TO WIRING DEVICES AND FIXTURES INDICATE CIRCUIT DESIGNATIONS. EXTEND HOMERUNS TO DEVICES WITH SAME CIRCUIT DESIGNATIONS.

ABBREVIATIONS:

|      |                                  |      |                            |
|------|----------------------------------|------|----------------------------|
| A    | AMP, AMPERE, AMPERES             | LTG  | LIGHTING                   |
| AFF  | ABOVE FINISHED FLOOR             | LV   | LOW VOLTAGE                |
| AFG  | ABOVE FINISHED GRADE             | MCB  | MAIN CIRCUIT BREAKER       |
| AHU  | AIR HANDLING UNIT                | MDF  | MAIN DISTRIBUTION FRAME    |
| AIC  | AMPERE INTERRUPTING CAPACITY     | MFGR | MANUFACTURER               |
| ALT  | ALTERNATE                        | MH   | MOUNTING HEIGHT OR MANHOLE |
| C    | CONDUIT                          | MLO  | MAIN LUGS ONLY             |
| CB   | CIRCUIT BREAKER                  | MPDP | MAIN POINT OF PRESENCE     |
| CKT  | CIRCUIT                          | MTD  | MOUNTED                    |
| CUH  | CABINET UNIT HEATER              | NIC  | NOT IN CONTRACT            |
| DN   | DOWN                             | NF   | NON-FUSED                  |
| DWG  | DRAWING                          | OH   | OVERHEAD                   |
| ECB  | ENCLOSED CIRCUIT BREAKER         | P    | POLE, POLES                |
| EF   | ELECTRIC FAN                     | PNL  | PANEL                      |
| ETR  | EXISTING TO REMAIN               | PR   | PAIR                       |
| EVC  | ELECTRIC WATER COOLER            | RR   | REMOVE & REINSTALL         |
| EWB  | ELECTRIC WATER HEATER            | RX   | REMOVE EXISTING            |
| EX   | EXISTING                         | RGS  | RIGID GALVANIZED STEEL     |
| EMER | EMERGENCY                        | SS   | SAFETY SWITCH              |
| EUH  | ELECTRIC UNIT HEATER             | SWBD | SWITCHBOARD                |
| F    | FUSE, FUSIBLE                    | TTB  | TELEPHONE TERMINAL BOARD   |
| GFI  | GROUND FAULT INTERRUPTING DEVICE | TYP  | TYPICAL                    |
| GRD  | GROUND                           | UH   | UNIT HEATER                |
| GW   | GROUND WIRE                      | UG   | UNDERGROUND                |
| HOA  | HANDS-OFF AUTOMATIC              | UON  | UNLESS OTHERWISE NOTED     |
| JB   | JUNCTION BOX                     | V    | VOLT, VOLTS                |
| KVA  | KILO VOLT AMPERES                | WP   | WEATHERPROOF               |
| KVAR | REACTIVE KILO VOLT AMPERES       | W    | WIRE, WIRES                |
| KW   | KILO WATT AMPERES                | W/   | WITH                       |
|      |                                  | Ø    | PHASE                      |
|      |                                  | XFMR | TRANSFORMER                |

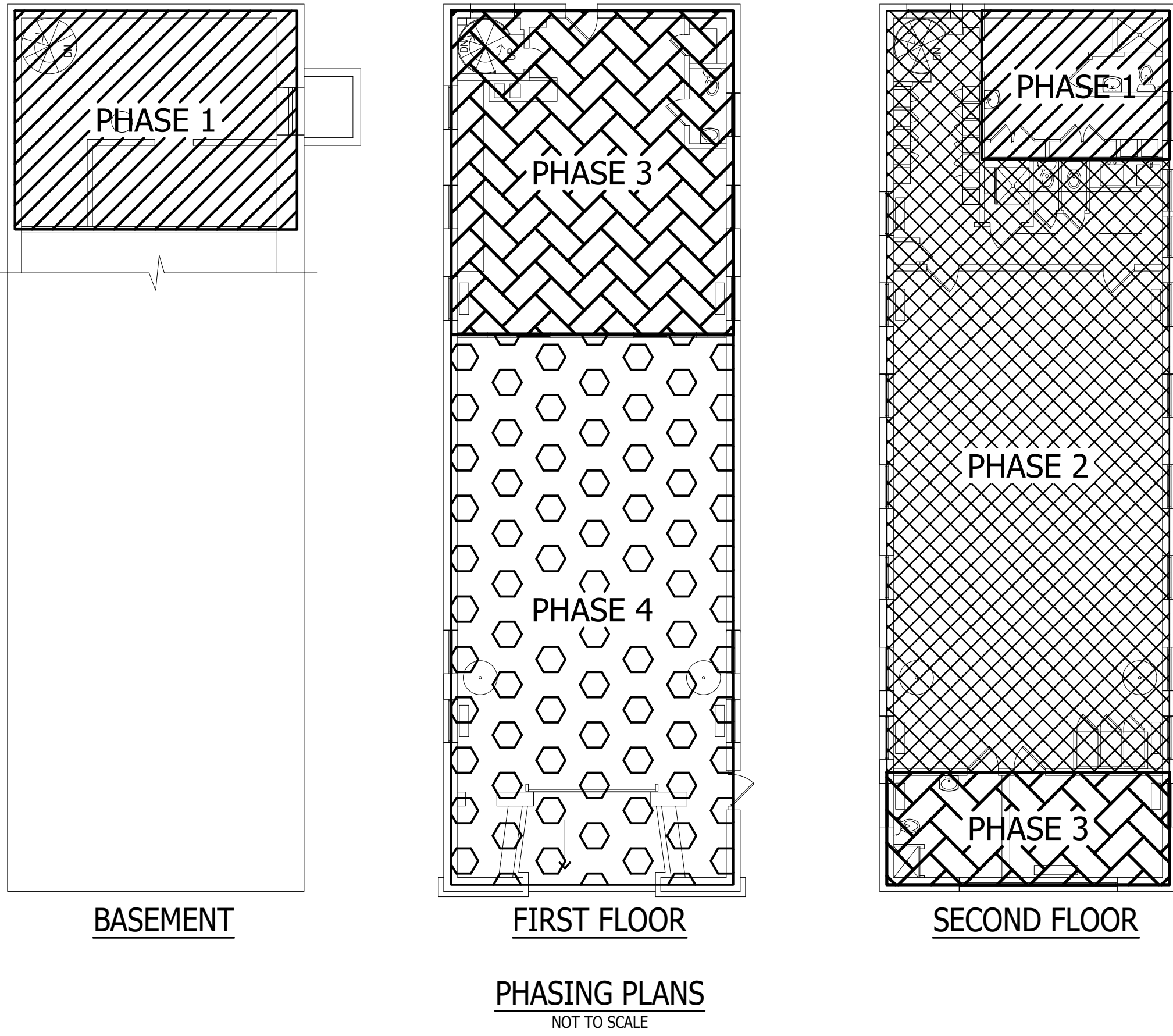
GENERAL DESCRIPTION OF PHASES:

- PHASE 1: INSTALLATION OF ELECTRICAL DISTRIBUTION EQUIPMENT, INCLUDING PANELBOARDS AND FEEDERS. REPLACEMENT OF MAIN SERVICE ENTRANCE CIRCUIT BREAKER SHALL BE COORDINATED WITH BGE OUTAGE. WORK ASSOCIATED WITHIN THE BASEMENT AND SECOND FLOOR UTILITY ROOM. THIS INCLUDES THE INSTALLATION OF THE LIGHTING, FIRE ALARM DEVICES, RECEPTACLE OUTLETS AND THE INTERCEPTION AND EXTENSION OF EXISTING CIRCUITS TO PANELS PB AND P2.
- PHASE 2: WORK ASSOCIATED WITHIN THE MAJORITY OF THE SECOND FLOOR, INCLUDING THE CORRIDOR, MAIN TOILET ROOM, AND BUNK ROOM. THIS INCLUDES THE INSTALLATION OF THE LIGHTING, FIRE ALARM DEVICES, AND RECEPTACLE OUTLETS.
- PHASE 3: WORK ASSOCIATED WITHIN THE FIRST FLOOR COMMONS AREA AND SECOND FLOOR OFFICE & TOILET ROOMS. THIS INCLUDES THE INSTALLATION OF THE LIGHTING, FIRE ALARM DEVICES, AND RECEPTACLE OUTLETS.
- PHASE 4: WORK ASSOCIATED WITHIN THE FIRST FLOOR FIRE ENGINE BAY AND STORAGE CLOSETS. THIS INCLUDES THE INSTALLATION OF THE LIGHTING, FIRE ALARM DEVICES, AND RECEPTACLE OUTLETS. REMOVAL OF THE ORIGINAL ELECTRICAL PANELS LOCATED WITHIN THE BASEMENT AND STORAGE CLOSET AFTER ALL EXISTING CIRCUITS HAVE BEEN REFERED FROM PANELS PB & P2.

PHASING NOTES:

1. THE BUILDING SHALL REMAIN IN OPERATION AT ALL TIMES DURING CONSTRUCTION PERIOD. ALL CONSTRUCTION WORK IS REQUIRED TO BE SEQUENCED/PHASED IN SUCH A MANNER TO ENSURE THE LEAST INTERRUPTION TO THE BUILDING OPERATION AND TO ENSURE SECURITY. PRIOR TO COMMENCING ANY WORK ON SITE, THE CONTRACTOR SHALL PREPARE A PHASING PLAN ALONG WITH THE CONSTRUCTION SCHEDULE TO IDENTIFY THE APPROACH THAT THEY INTEND ON COMPLETING THE WORK. THIS PLAN SHALL INCLUDE BUT NOT LIMITED TO SCOPE OF WORK, DURATION OF WORK, SHUTDOWNS REQUIRED AND SYSTEMS AFFECTED BY EACH SHUTDOWN. THIS APPROACH SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO CONSTRUCTION ACTIVITY. CONTRACTOR SHALL REVISE AND RESUBMIT PHASING PLAN AS REQUIRED UNTIL OWNER & ENGINEER APPROVAL IS OBTAINED.
2. ANY INTERRUPTION IN UTILITY SERVICES MUST BE COORDINATED AND APPROVED BY THE OWNER AND ENGINEER AT LEAST 14 DAYS IN ADVANCE.
3. ALL EXISTING UTILITIES MUST BE PROVIDED TO THE BUILDING AT ALL TIMES, 24/7/365. THE CONTRACTOR SHALL AT NO COST PROVIDE TEMPORARY UTILITIES TO MAINTAIN SUCH SERVICES INCLUDING HEATING, POWER, LIGHTING, SECURITY TO BUILDING FROM NOTICE TO PROCEED (NTP) UNTIL FINAL COMPLETION OF CONTRACT.
4. THE CONTRACTOR SHALL COMMUNICATE WITH AND PROVIDE FOR THE APPROVAL OF THE OWNER AND ENGINEER THE SCHEDULE AND THE WORK SEQUENCE AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF THE TASK. THE CONTRACTOR SHALL UPDATE THE OWNER AND ENGINEER DAILY ON THE PROGRESS.

| LIGHTING FIXTURE SCHEDULE  |  |              |  |       |             |                                |              |   |
|--|--|--------------|--|-------|-------------|--------------------------------|--------------|---|
| TYPE   | DESCRIPTION  | MANUFACTURER | CATALOG NO.  | VOLTS | INPUT WATTS | LAMP                           | MOUNTING     | REMARKS   |
| A  | 2'x4' LED SHALLOW PLENUM TROFFER 3-1/4" DEEP WITH CRS HOUSING, WHITE POWDERCOAT FINISH, WITH HIGHLY TRANSMISSIVE PRISMATIC PATTERN LENS 0-10V DIMMING DRIVER   | LITHONIA     | 2GTL-420L-FW-A12125-120-E21-LP840                                    | 120   | 29          | LED 4000K, 4000 LUMENS, 80 CRI | RECESSED     |   |
| B  | 1'x8' LINEAR LIGHT FIXTURE WITH WIDE AREA DISTRIBUTION WITH UPLIGHT, EXTRUDED ALUMINUM HOUSING, WHITE FINISH, PRECISION MOLDED ACRYLIC LENS, 0-10V 10" DIMMING AND DAMP LOCATION LISTED  | LITHONIA     | PTNSL6-WD-MVOLT-OSR2-41K-80CRI-UPL2-DWH                              | 120   | 81          | LED 4100K, 7300 LUMENS, 80CRI  | SUSPENDED    | PROVIDE AFAC120 ADJUSTABLE AIRCRAFT CABLE FOR MOUNTING  |
| C  | 2'x2' LED SHALLOW PLENUM TROFFER 3-1/4" DEEP WITH CRS HOUSING, WHITE POWDERCOAT FINISH, WITH HIGHLY TRANSMISSIVE PRISMATIC PATTERN LENS 0-10V DIMMING DRIVER   | LITHONIA     | 2GTL-233L-FW-A12125-120-E21-LP840                                    | 120   | 27.6        | LED 4000K, 3408 LUMENS         | RECESSED     |   |
| D  | 1'x4' LED SHALLOW PLENUM TROFFER 3-1/4" DEEP WITH CRS HOUSING, WHITE POWDERCOAT FINISH, WITH HIGHLY TRANSMISSIVE PRISMATIC PATTERN LENS 0-10V DIMMING DRIVER   | LITHONIA     | GTL-4-40L-A12125-120-G210-LP840                                      | 120   | 31          | LED 4000K, 3844 LUMENS         | RECESSED     | PROVIDE DGA14 DRYWALL GRID ADAPTER FOR DRYWALL CEILINGS |
| F  | 4' LED INDUSTRIAL STRIP CHANNEL FIXTURE CONSTRUCTED OF COLD ROLLED STEEL, SYMMETRIC REFLECTOR WITH UPLIGHT, GALVANIZED WHITE ENAMEL FINISH AND MVOLT BALLAST   | LITHONIA     | ZL1D-L48-SMR-3000LM-FST-120-40K-80CRI-GALVW-HC36-ZLR-L48-SYM-UPL-VWH | 120   | 30          | LED 4000K, 3000 LUMENS, 80CRI  | SUSPENDED    |   |
| F1   | SAME AS TYPE F EXCEPT WALL MOUNTED   | LITHONIA     | ZL1D-L48-SMR-3000LM-FST-120-40K-80CRI-GALVW-ZLR-L48-SYM-VWH          | 120   | 30          | LED 4000K, 3000 LUMENS, 80CRI  | WALL MOUNTED |   |
| G  | 6" DIAMETER WAFER LED WET LOCATION DOWNLIGHT WITH MATTE WHITE FINISH AND ALUMINUM DIECAST OUTER FRAME AND ADJUSTABLE COLOR TEMPERATURE, REMOTE DRIVER AND 10% DIMMING  | LITHONIA     | WF6-LED-40K-90CRI-MMV  | 120   | 13.4        | LED 4000K, 1190 LUMENS, 90CRI  | RECESSED     |   |
| H  | 24" LONG LED CYLINDER VANITY LIGHT WITH CHROM FINISH AND ACRYLIC DIFFUSER  | LITHONIA     | FMVCLS-24IN-MVOLT-40K-80CRI-KR                                       | 120   | 18          | LED 4000K, 1850 LUMENS, 90CRI  | WALL         |   |
| J  | 19" DIAMETER PARKING GARAGE LED FIXTURE WITH 2 PIECE DIECAST HOUSING, ACRYLIC LENS AND UPLIGHT WITH MOTION/AMBIENT SENSOR AND EMERGENCY BATTERY PACK   | LITHONIA     | VCPO-LED-V4-P1-40K-80CRI-LANE-MVOLT-PMYK-UPL1-EBWC                   | 120   | 33.5        | LED 4000K, 3690 LUMENS, 80CRI  | SUSPENDED    |   |
| K  | LED DIE-CAST WALL PACK WITH GLASS REFRACTOR TYPE III MEDIUM DISTRIBUTION AND TEXTURED DARK BRONZE FINISH   | LITHONIA     | ARC2-LED-P4-40K-MVOLT-DBDXB  | 120   | 30          | LED 4000K, 4124 LUMENS, 80CRI  | WALL         |   |
| EXIT   | LED EXIT SIGN WITH INJECTION MOLDED FLAME-RETARDANT HIGH IMPACT THERMOPLASTIC HOUSING, GREEN STENCIL LETTERS AND DIRECTIONAL CHEVRON KNOCKOUTS, NI-MH BACK-UP BATTERY, SINGLE OR TWIN FACE AND UNIVERSAL MOUNTING AS INDICATED | LITHONIA     | EXRGEL-M6 (GREEN)  | 120   | 1           | LED ARRAY                      | UNIVERSAL    |   |
| LIGHTING NOTES<br>1. VERIFY CEILING CONSTRUCTION IN ALL AREAS WITH DRAWINGS AND PROVIDE ALL MOUNTING FRAMES AND HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. SUITABLE FOR THE CEILING TYPE AND CONFIGURATION.<br>2. REFER TO INTERIOR/EXTERIOR LIGHTING SPECIFICATIONS FOR ADDITIONAL LAMP AND DRIVER INFORMATION. PROVIDE DRIVERS FOR VOLTAGE AS INDICATED.<br>3. FIRST NAMED PRODUCT IS BASIS OF DESIGN. PROVIDE PRODUCTS WHICH INCLUDE ALL FEATURES AND ACCESSORIES AS INDICATED IN THE DESCRIPTION AND MODEL NUMBER OF THE BASIS OF DESIGN PRODUCT.<br>4. FIXTURES WITH "E" SUFFIX SHALL BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY.<br>5. MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED. |  |              |  |       |             |                                |              |   |



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**SEAL**

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**CITY OF BALTIMORE**  
**DEPARTMENT OF GENERAL SERVICES**  
**CAPITAL PROJECTS AND ENERGY DIVISION**

**BID SUBMISSION**

**ENGINE 33**  
**ELECTRICAL UPGRADES**  
**BALTIMORE CITY FIRE DEPARTMENT**  
1223 N MONTGOMERY AVENUE  
BALTIMORE, MARYLAND 21213

**CONTRACT NO. GS 21828**

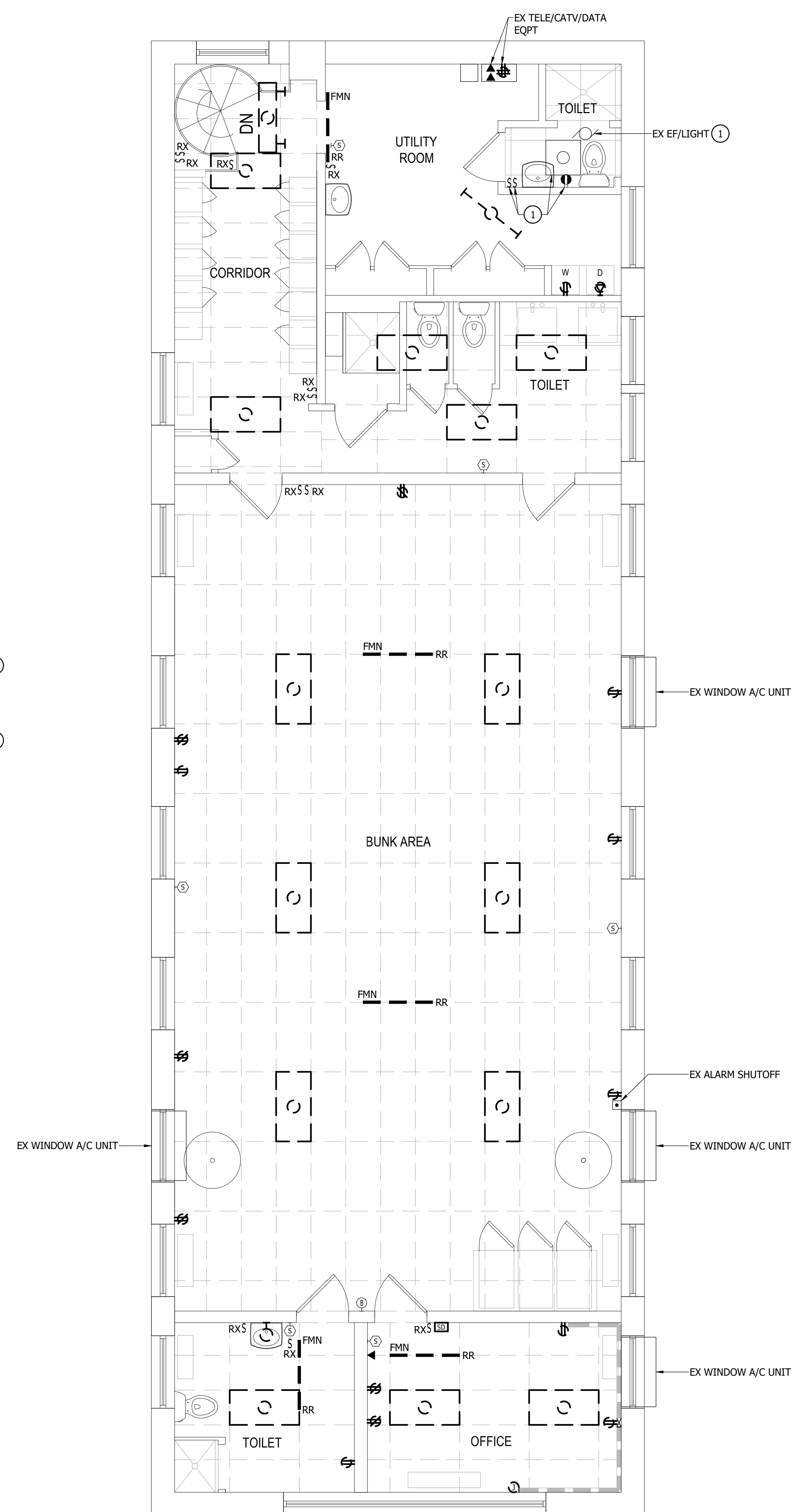
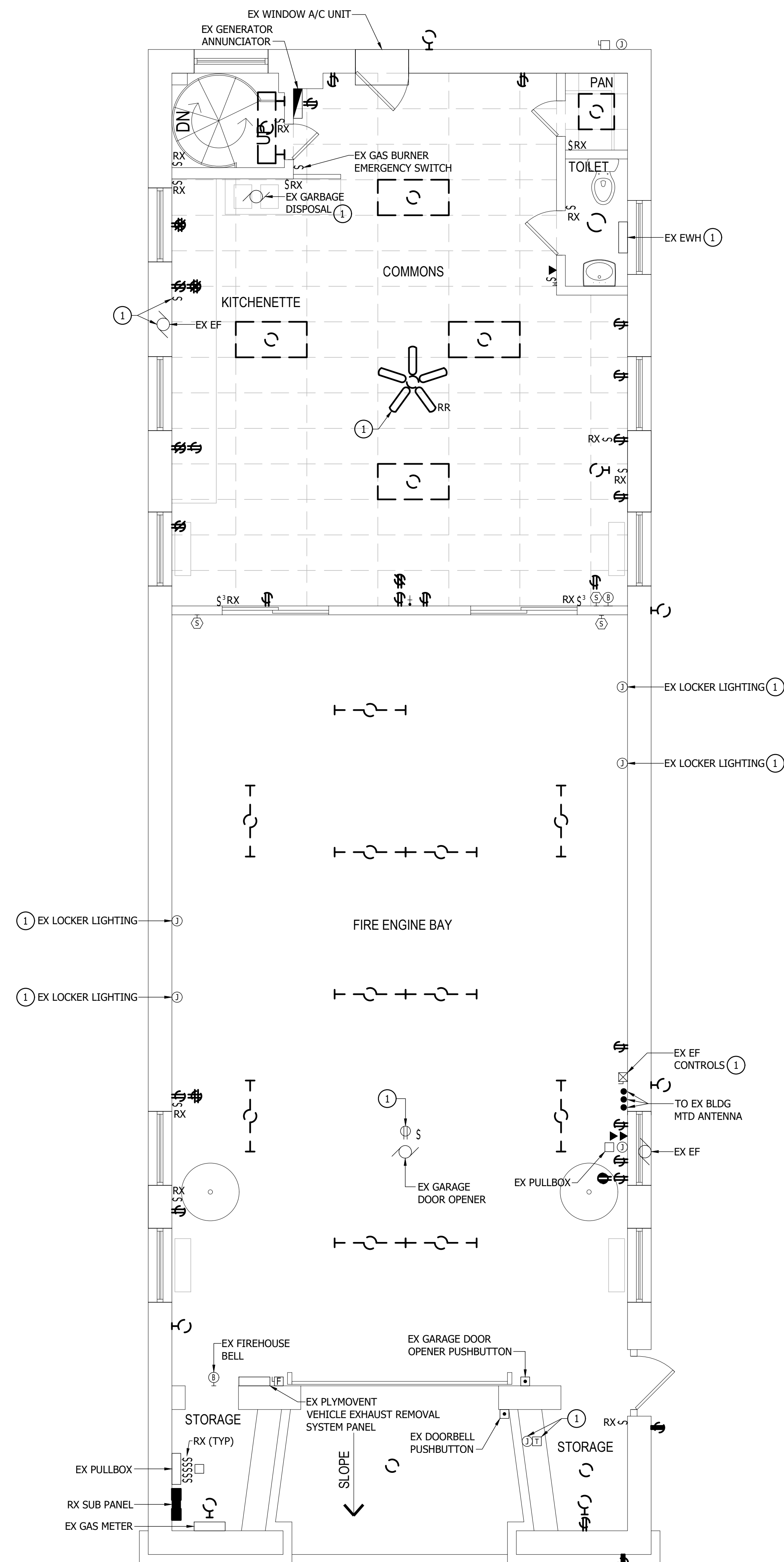
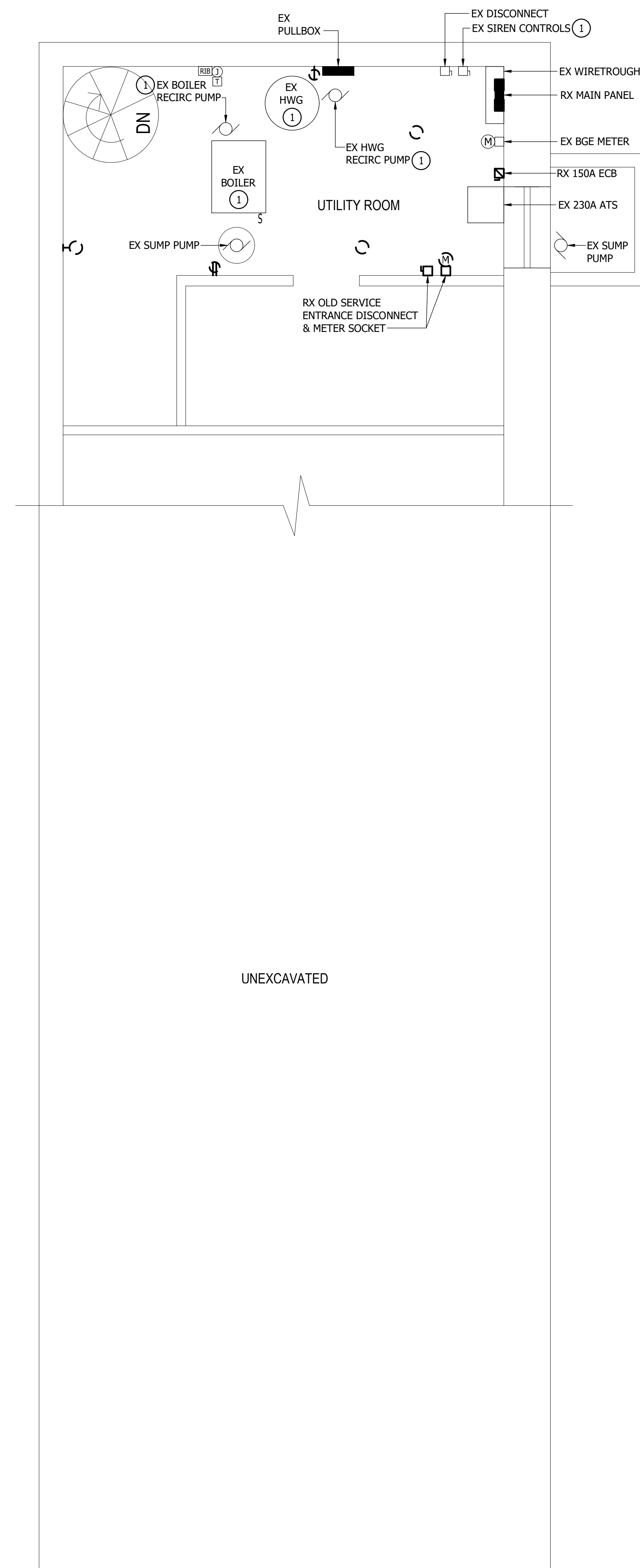
**LEGEND, LIGHTING FIXTURE SCHEDULE & ABBREVIATIONS**

03/28/2022

**SHEET E-001**

03 OF 06



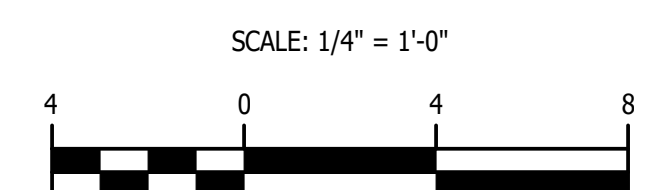


DEMOLITION NOTES:

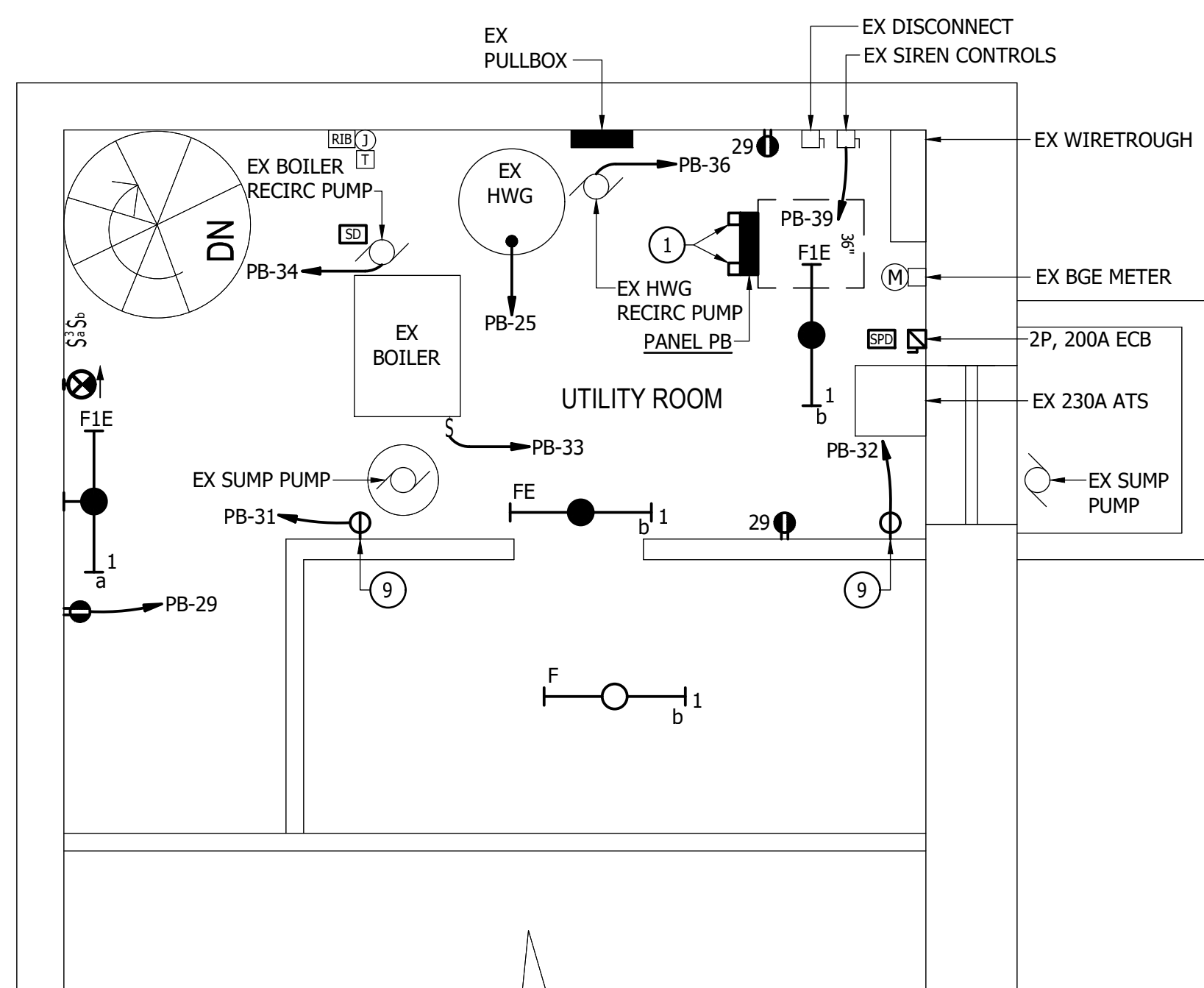
1. REFER TO DEMOLITION NOTES ON SHEET E-001 FOR ADDITIONAL REQUIREMENTS.
2. THE SUSPENDED CEILING SYSTEM THROUGHOUT THE BUILDING SHALL BE REMOVED AND REPLACED IN KIND.
3. REMOVE AND SAFELY STORE FOR RE-INSTALLATION ALL CEILING MOUNTED DEVICES EXISTING TO REMAIN, INCLUDING SMOKE DETECTORS ETC. AS REQUIRED FOR INSTALLATION OF NEW ELECTRICAL WORK UON. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND RELOCATION OF ADDITIONAL DEVICES NOT INDICATED AS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

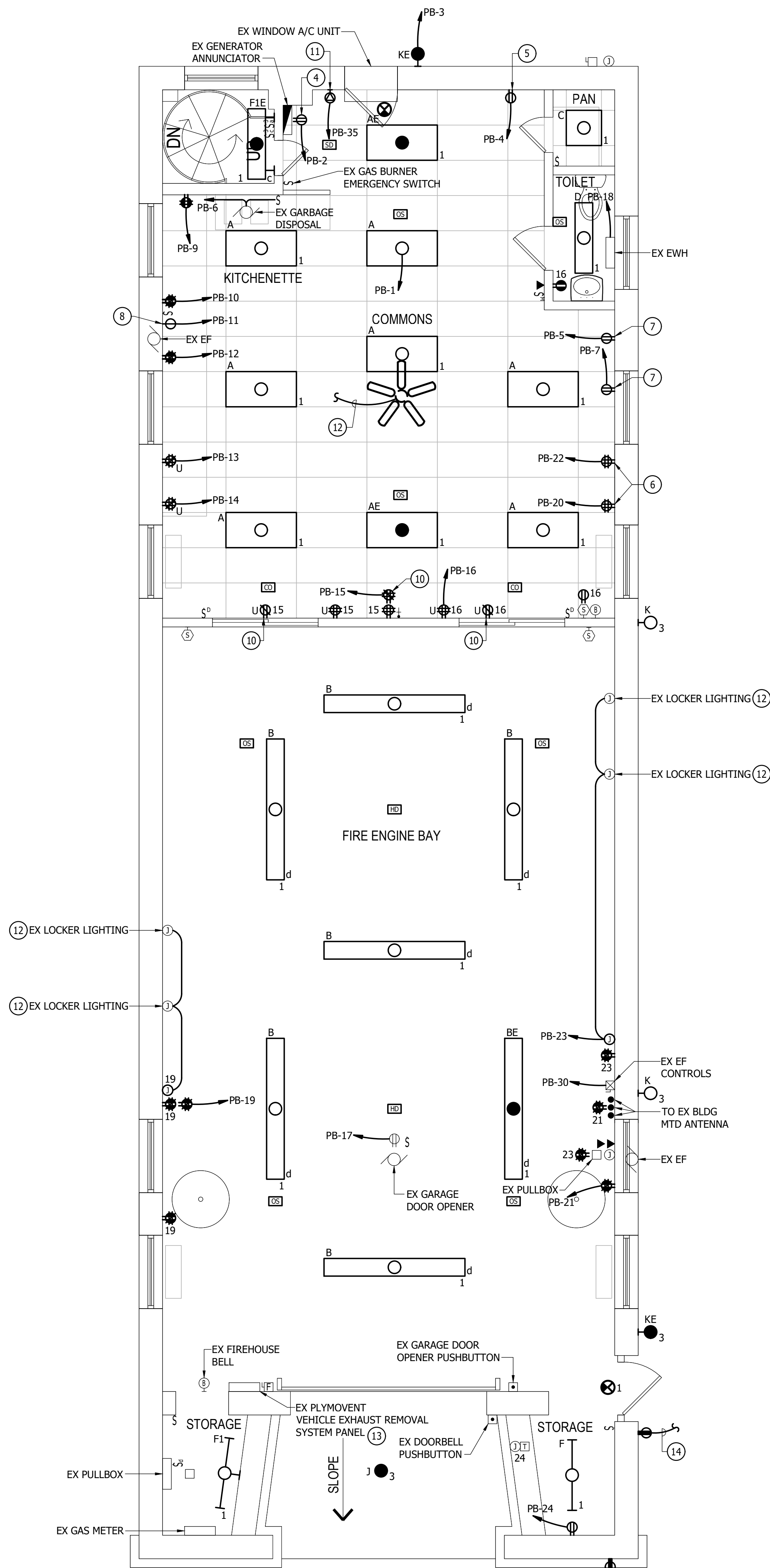
- ① REMOVE ASSOCIATED ELECTRICAL WORK FOR RE-CONNECTION TO NEW CIRCUIT.

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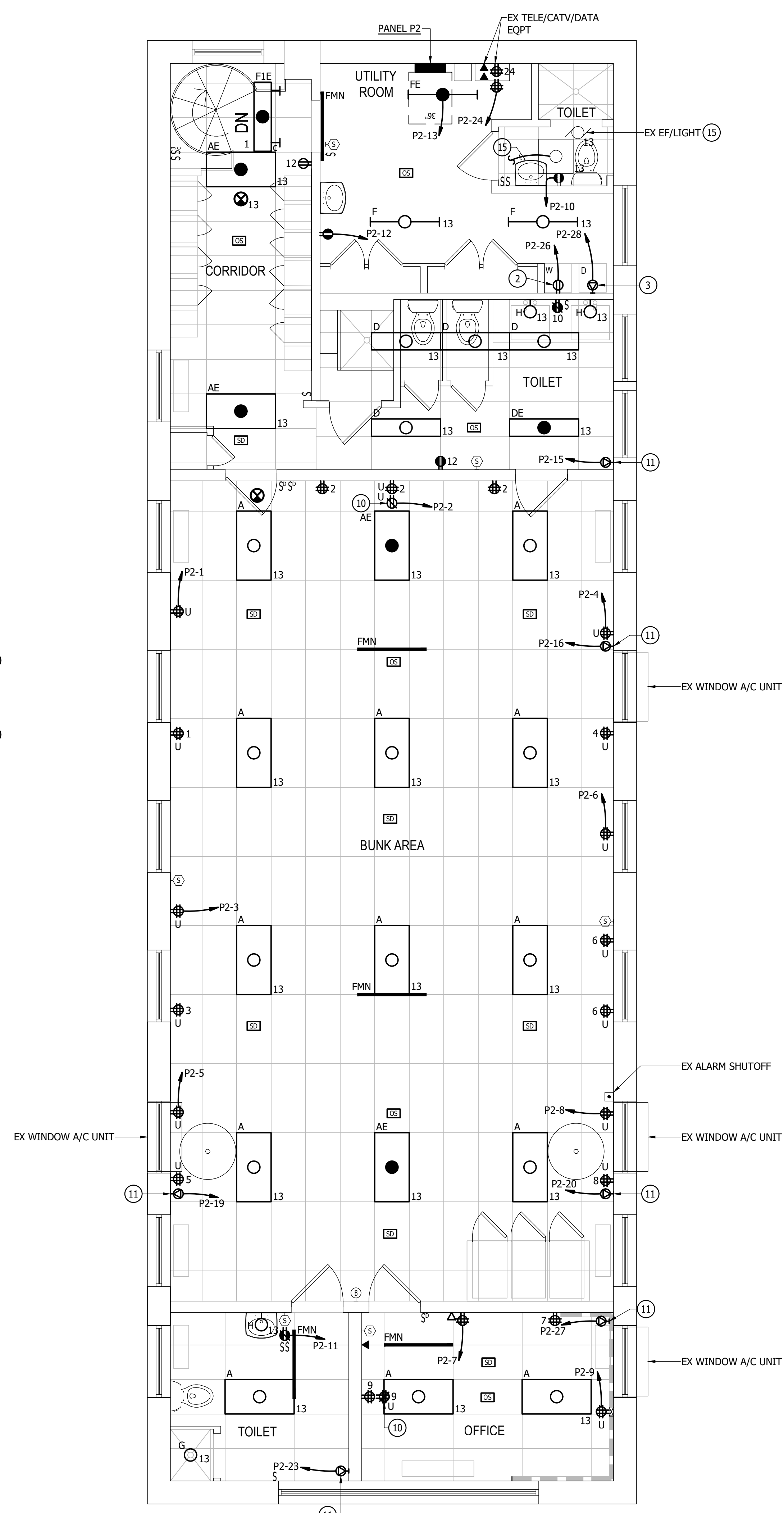




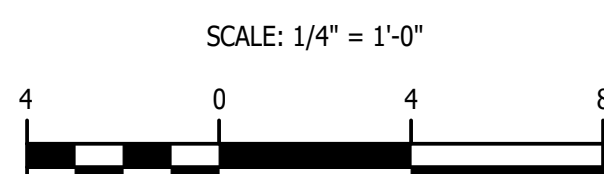
**BASEMENT FLOOR PLAN**  
**ELECTRICAL NEW WORK**  
SCALE: 1/4" = 1'-0"



**FIRST FLOOR PLAN**  
**ELECTRICAL NEW WORK**  
SCALE: 1/4" = 1'-0"



**SECOND FLOOR PLAN**  
**ELECTRICAL NEW WORK**  
SCALE: 1/4" = 1'-0"



**GENERAL NOTES:**

1. CEILING TILES, T-BAR AND SUPPORTS SHALL BE REPLACED THROUGHOUT THE BUILDING.
2. MAKE CONNECTION TO EXIT SIGN BATTERY UNIT VIA UN-SWITCHED PORTION OF LIGHTING CIRCUIT INDICATED.

**DRAWING NOTES:**

- 1 PROVIDE KINDORF SUPPORTS FOR MOUNTING OF PANELBOARD. REFER TO DETAIL ON DRAWING E-301 FOR ADDITIONAL INFORMATION.
- 2 MOUNT TO SUIT WASHER.
- 3 MOUNT TO SUIT DRYER.
- 4 MOUNT TO SUIT ICE MACHINE.
- 5 MOUNT TO SUIT VENDING MACHINE.
- 6 MOUNT TO SUIT RADIO CONSOLE.
- 7 MOUNT TO SUIT REFRIGERATOR.
- 8 MOUNT TO SUIT RANGE.
- 9 MOUNT TO SUIT EXISTING SUMP PUMP.
- 10 MOUNT BEHIND TV. COORDINATE WITH EXISTING MOUNTING HEIGHT.
- 11 NEMA 6-20R. MOUNT 6" BELOW CEILING.
- 12 MAKE ALL CONNECTIONS TO UPSTREAM OF GFCI RECEPTACLE CIRCUIT PB-12.
- 13 INTERCEPT CIRCUIT AT PANELBOARD AND EXTEND TO PANEL PB AS REQUIRED.
- 14 INTERCEPT AND EXTEND EXISTING CIRCUIT AND MAKE ALL CONNECTIONS TO NEW CIRCUIT PB-24.
- 15 INTERCEPT AND EXTEND EXISTING CIRCUIT AND MAKE ALL CONNECTIONS TO NEW LIGHTING CIRCUIT SERVED FROM PANEL P2.

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PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. NOTED NO. 38555. EXP. DATE: 01-15-2025.

**SEAL**

*Signature*

**CITY OF BALTIMORE**  
**DEPARTMENT OF GENERAL SERVICES**  
**CAPITAL PROJECTS AND ENERGY DIVISION**

**BID SUBMISSION**

| NO | DATE | DESCRIPTION |
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**ENGINE 33**  
**ELECTRICAL UPGRADES**  
**BALTIMORE CITY FIRE DEPARTMENT**  
1223 N MONTGOMERY AVENUE  
BALTIMORE, MARYLAND 21213

**CONTRACT NO. GS 21828**

**BASEMENT, FIRST & SECOND FLOOR PLANS**  
**ELECTRICAL NEW WORK**

**03/28/2022**

**SHEET E-201**

**05 OF 06**





| RX SUB PANEL               |     |                    |              |            |                  |   |     |                          |              | MOUNTING: SURFACE                |                  |   |             |  |  |  |  |  |  |
|----------------------------|-----|--------------------|--------------|------------|------------------|---|-----|--------------------------|--------------|----------------------------------|------------------|---|-------------|--|--|--|--|--|--|
| VOLTAGE: 240/120V, 1PH, 3W |     |                    |              |            |                  |   |     |                          |              | LOCATION: UTILITY ROOM           |                  |   |             |  |  |  |  |  |  |
| MAIN BUS: 100A             |     |                    |              |            |                  |   |     |                          |              | 22,000 A.I.C.                    |                  |   |             |  |  |  |  |  |  |
| SQUARE D QO LOAD CENTER    |     |                    |              |            |                  |   |     |                          |              | 100% RATED NEUTRAL BUS           |                  |   |             |  |  |  |  |  |  |
| 60A MLO                    |     |                    |              |            |                  |   |     |                          |              |                                  |                  |   |             |  |  |  |  |  |  |
| CONN<br>KVA                | CKT | DESCRIPTION        | BREAKER<br>P | AMPS<br>NO | SIZE<br>GND      | C | CKT | DESCRIPTION              | BREAKER<br>P | AMPS<br>NO                       | SIZE<br>GND      | C | CONN<br>KVA |  |  |  |  |  |  |
|                            | 1   | GARAGE LTG         | 1            | 20         | EXISTING CIRCUIT |   | 2   | TV/DW/BWMT & PLAN RM LTG | 1            | 20                               | EXISTING CIRCUIT |   |             |  |  |  |  |  |  |
|                            | 2   | CIRCUIT            | 1            | 20         | EXISTING CIRCUIT |   | 4   | EX CIRCUIT               | 1            | 20                               | EXISTING CIRCUIT |   |             |  |  |  |  |  |  |
|                            | 5   | REC #1             | 1            | 20         | EXISTING CIRCUIT |   | 6   | EX CIRCUIT               | 1            | 20                               | EXISTING CIRCUIT |   |             |  |  |  |  |  |  |
|                            | 7   | GARAGE LTG/CLG FAN | 1            | 20         | EXISTING CIRCUIT |   | 8   | REC #2                   | 1            | 20                               | EXISTING CIRCUIT |   |             |  |  |  |  |  |  |
|                            | 9   | BUNK ROOM          | 1            | 20         | EXISTING CIRCUIT |   | 10  | EX CIRCUIT               | 1            | 20                               | EXISTING CIRCUIT |   |             |  |  |  |  |  |  |
|                            | 11  | EX CIRCUIT         | 1            | 20/20      | EXISTING CIRCUIT |   | 12  | SPARE/SPARE              | 1            | 20/20                            | EXISTING CIRCUIT |   |             |  |  |  |  |  |  |
|                            | 13  | SPACE              | 1            |            |                  |   | 14  | SPACE                    | 1            |                                  |                  |   |             |  |  |  |  |  |  |
|                            | 15  | SPACE              | 1            |            |                  |   | 16  | SPACE                    | 1            |                                  |                  |   |             |  |  |  |  |  |  |
| TOTAL CONNECTED LOAD       |     |                    |              |            |                  |   |     |                          |              | KVA PER PHASE: A 0.0 B 0.0 C 0.0 |                  |   |             |  |  |  |  |  |  |
| 0 KVA                      |     |                    |              |            |                  |   |     |                          |              |                                  |                  |   |             |  |  |  |  |  |  |

| PANEL P2                    |     |                         |                     |    |                           |                |    |     |                           | MOUNTING: SURFACE               |    |                        |     |    |               |     |  |  |  |
|-----------------------------|-----|-------------------------|---------------------|----|---------------------------|----------------|----|-----|---------------------------|---------------------------------|----|------------------------|-----|----|---------------|-----|--|--|--|
| VOLTAGE: 240/120V, 1 PH, 3W |     |                         |                     |    |                           |                |    |     |                           | LOCATION: BASEMENT UTILITY ROOM |    |                        |     |    |               |     |  |  |  |
| MAIN BUS: 100A              |     |                         |                     |    | 100A MAIN CIRCUIT BREAKER |                |    |     |                           | 100% RATED NEUTRAL BUS          |    |                        |     |    | 22.000 A.I.C. |     |  |  |  |
| CONN<br>KVA                 | CKT | DESCRIPTION             | BREAKER<br>P / AMPS | NO | CIRCUIT WIRING<br>SIZE    | GND            | C  | CKT | DESCRIPTION               | BREAKER<br>P / AMPS             | NO | CIRCUIT WIRING<br>SIZE | GND | C  | CONN<br>KVA   |     |  |  |  |
| 0.8                         | 1   | REC - BUNK AREA - NORTH | 1                   | 20 | 2                         | 12             | 12 | 3/4 | 2 REC - BUNK AREA - EAST  | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 1.4 |  |  |  |
| 0.8                         | 3   | REC - BUNK AREA - NORTH | 1                   | 20 | 2                         | 12             | 12 | 3/4 | 4 REC - BUNK AREA - SOUTH | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 1.2 |  |  |  |
| 0.6                         | 5   | REC - BUNK AREA - NORTH | 1                   | 20 | 2                         | 12             | 12 | 3/4 | 6 REC - BUNK AREA - SOUTH | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 1.0 |  |  |  |
| 0.8                         | 9   | REC - CHIEFS OFFICE     | 1                   | 20 | 2                         | 12             | 12 | 3/4 | 8 REC - BUNK AREA - SOUTH | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 0.6 |  |  |  |
| 1.2                         | 9   | REC - CHIEFS OFF/BATHRM | 1                   | 20 | 2                         | 12             | 12 | 3/4 | 10 REC - TOILETS          | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 0.4 |  |  |  |
| 0.2                         | 11  | REC - TOILET            | 1                   | 20 | 2                         | 12             | 12 | 3/4 | 12 REC - 2ND FLOOR        | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 0.6 |  |  |  |
| 0.8                         | 13  | LIGHTING - 2ND FLOOR    | 1                   | 20 | 2                         | 12             | 12 | 3/4 | 14 SPARE                  | 1                               | 20 |                        |     |    |               |     |  |  |  |
| 1.5                         | 15  | A/C UNIT - TOILET       | 2                   | 20 | 2                         | 12             | 12 | 3/4 | 16 A/C UNIT - BUNK AREA   | 2                               | 20 | 2                      | 12  | 12 | 3/4           | 1.5 |  |  |  |
| 1.5                         | 17  | -                       | -                   | -  | -                         | -              | -  | -   | 18 -                      | -                               | -  | -                      | -   | -  | -             | 1.5 |  |  |  |
| 1.5                         | 19  | A/C UNIT - BUNK AREA    | 2                   | 20 | 2                         | 12             | 12 | 3/4 | 20 A/C UNIT - BUNK AREA   | 2                               | 20 | 2                      | 12  | 12 | 3/4           | 1.5 |  |  |  |
| 1.5                         | 21  | -                       | -                   | -  | -                         | -              | -  | -   | 22 -                      | -                               | -  | -                      | -   | -  | -             | 1.5 |  |  |  |
| 1.5                         | 23  | A/C UNIT - TOILET       | 2                   | 20 | 2                         | 12             | 12 | 3/4 | 24 TELE/CATV/DATA EQPT    | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 1.0 |  |  |  |
| 1.5                         | 25  | -                       | -                   | -  | -                         | -              | -  | -   | 26 WASHER                 | 1                               | 20 | 2                      | 12  | 12 | 3/4           | 1.0 |  |  |  |
| 1.5                         | 27  | A/C UNIT - OFFICE       | 2                   | 20 | 2                         | 12             | 12 | 3/4 | 28 DRYER - 2ND FLOOR      | 2                               | 30 | 3                      | 10  | 10 | 3/4           | 1.2 |  |  |  |
| 1.5                         | 29  | -                       | -                   | -  | -                         | -              | -  | -   | 30 -                      | -                               | -  | -                      | -   | -  | -             | 1.2 |  |  |  |
|                             | 31  | SPARE                   | 1                   | 20 |                           |                |    |     | 32 SPARE                  | 1                               | 20 |                        |     |    |               |     |  |  |  |
|                             | 33  | SPARE                   | 1                   | 20 |                           |                |    |     | 34 SPARE                  | 1                               | 20 |                        |     |    |               |     |  |  |  |
|                             | 35  | SPACE                   | 1                   |    |                           |                |    |     | 36 SPACE                  | 1                               |    |                        |     |    |               |     |  |  |  |
|                             | 37  | SPACE                   | 1                   |    |                           |                |    |     | 38 SPACE                  | 1                               |    |                        |     |    |               |     |  |  |  |
|                             | 39  | SPACE                   | 1                   |    |                           |                |    |     | 40 SPACE                  | 1                               |    |                        |     |    |               |     |  |  |  |
|                             | 41  | SPACE                   | 1                   |    |                           |                |    |     | 42 SPACE                  | 1                               |    |                        |     |    |               |     |  |  |  |
| TOTAL CONNECTED LOAD        |     |                         | 33 KVA              |    |                           | KVA PER PHASE: |    |     | A 17.4 B 15.4             |                                 |    |                        |     |    |               |     |  |  |  |

- ### DRAWING NOTES:
- 1 3 #3/0 + #6 GW - 2" C.
  - 2 3 #3/0 + #6 GW - 2" C FROM FEED THROUGH LUGS TO EX MAIN PANEL.
  - 3 CONDUITS AS REQUIRED TO INTERCEPT AND EXTEND EXISTING CIRCUITS TO PANEL PB.
  - 4 COORDINATE REMOVAL WITH BGE AS POWER MAY STILL BE LIVE TO THE DISCONNECT.