THE SCHOOL DISTRICT OF PHILADLPHIA SCHOOL REFORM COMMISSION

Office of Capital Programs 440 North Broad Street, 3rd Floor – Suite 371 Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

Addendum No. 01

Subject: Dunbar Elementary School – Emergency Generator Replacement

SDP Contract No. B-061C of 2018/19

Location: Paul Dunbar Elementary School

1750 N. 12th Street,

Philadelphia, Pennsylvania 19122

This Addendum, dated October 9, 2018, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

Drawing Revisions:

Drawings

E101:

- Drawing updated to indicate location of new generator and routing of conduit.
- Drawing viewport 1 updated to clarify location of existing Normal Power disconnect switch.
- 3. New Work Key Note 4 updated to indicate routing of conduit.
- 4. New Work Key Note 11 added to indicate requirement of bollards around fence.
- New Work Key Note 12 added to indicate coordination of existing storm water grate, bollards and fencing.
- 6. New Work Key Note 7 updated to indicate new normal feeder from disconnect switch to ATS.

E501:

- 1. Updated Generator Fence detail (Detail#1).
- 2. Added Typical Bollard Detail (Detail#7)
- 3. Updated Electrical Conduit Ductbank Detail (Detail#10)

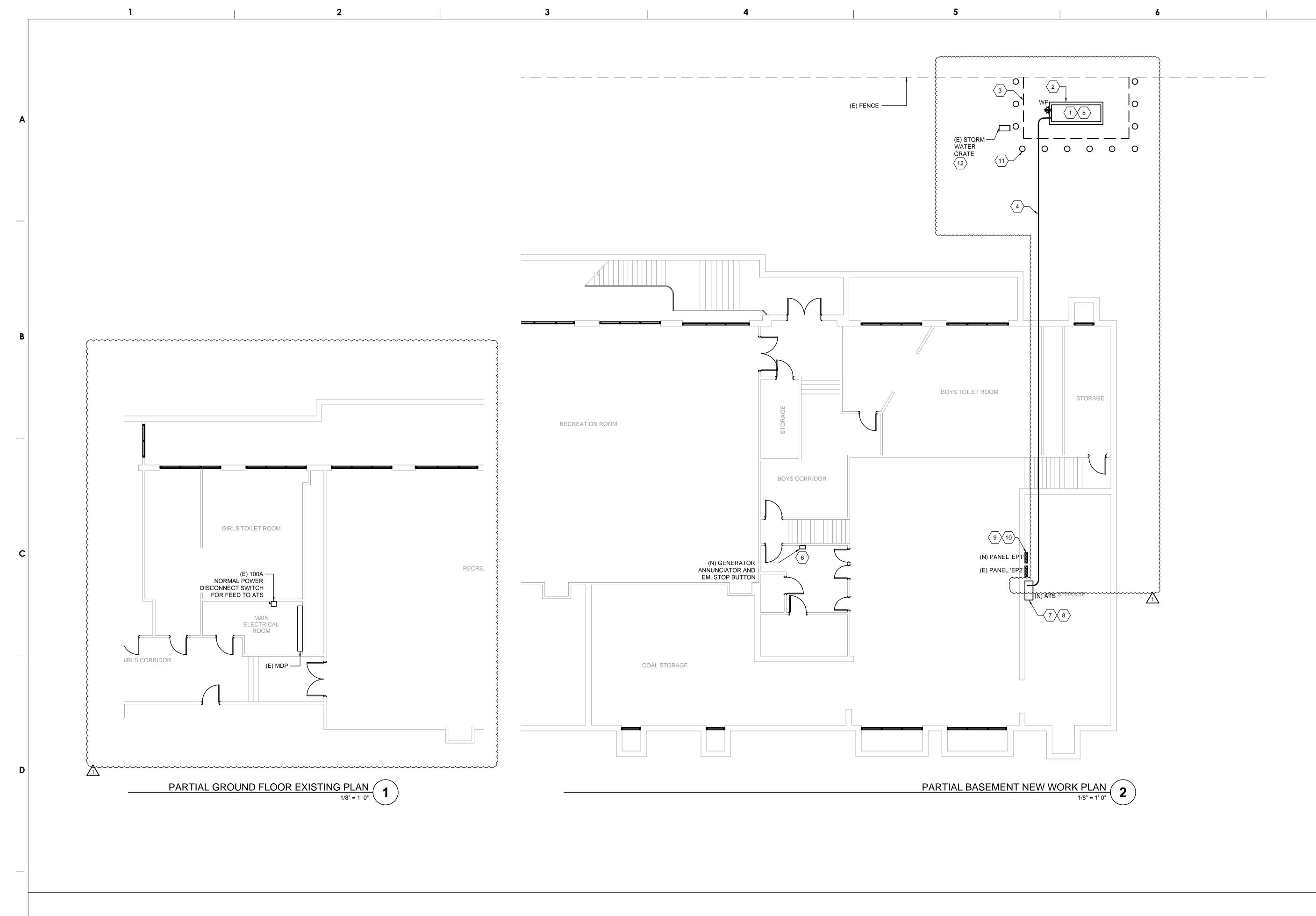
Bid RFIs:

- 1. Question #1: Demo Drawing Note 7 states to demolish normal feed conduit and wire. Single line shows new conduit & wire for normal feed. Drawing E101.0 Note 7 states to re-use existing normal feeder.
 - a. Do we install new conduit and wire for normal feed at ATS.
 - b. Can you furnish a drawing or a distance for the conduit run if we are installing

Response -

- a. Yes. Install new conduit and wire for normal feed from disconnect switch to ATS. See revised Note 7 on drawing E101.
- b. The approximate distance of conduit run is 225 feet.

End of Addendum



GENERAL NOTES:

A. ALL CONDUIT SHALL BE THREADED GALVANIZED RIGID METAL (STEEL) CONDUIT ONLY.
 B. CONTRACTORS SHALL COORDINATE INSTALLATION WITH SDP ENVIRONMENTAL TEAM.

NEW WORK KEY NOTES

- PROVIDE NEW DIESEL GENERATOR WITH LEVEL 1 SOUND ATTENUATING WEATHERPROOF ENCLOSURE.
 GENERATOR SHALL BE RATED FOR 15KW, 120/240V, 1PH, WITH 80A/2P MCB AT GENERATOR CONTROL PANEL.
 PROVIDE GENERATOR WITH 48-HOUR DOUBLE-WALLED SKID-BASED DIESEL FUEL TANK WITH OVERFLOW AND SECONDARY VENTILATION, MOUNTED UNDER GENERATOR.
- PROVIDE NEW 6" CONCRETE HOUSEKEEPING PAD, 3000 PSI CONCRETE SLAB FOR NEW GENERATOR. PAD SHALL EXTEND AT MINIMUM 6" BEYOND FOOTPRINT OF GENERATOR ENCLOSURE ON ALL SIDES. COORDINATE EXACT DIMENSIONS OF PAD WITH SELECTED GENERATOR EQUIPMENT. SEE DWG E501 FOR GENERATOR PAD DETAIL.
- PROVIDE CHAIN LINK FENCE FOR GENERATOR. SEE DWG E501 FOR FENCING DETAILS.
- PROVIDE (1) 2" CONDUIT FOR GENSET INCOMING POWER WIRING, (1) 1" CONDUIT FOR CONTROL WIRING TO ATS, (1) 1" FOR GENERATOR EM. STOP AND REMOTE ANNUNCIATOR PANEL, (1) 1-1/2" FOR GENSET ACCESSORIES BRANCH CIRCUITS. CONDUITS SHALL BE ROUTED UNDERGROUND OUTSIDE BUILDING, CONDUITS SHALL BE ROUTED WITHIN CONCRETE ENCASED DUCTBANK ROUTED MIN. 30 INCHES BELOW GRADE. PATCH AND REPAIR ASPHALT AND CONCRETE SURFACES, SEE DUCTBANK DETAIL ON E501. PENETRATE EXTERIOR WALL, PROVIDE CONDUIT LINK SEALS AT WALL PENETRATION, ROUTE CONDUIT TIGHT TO CEILING THROUGH BATHROOM AND STAIR AND TERMINATE IN ELECTRICAL ROOM AT ATS AND PANELBOARD. ALL INTERIOR WALL PENETRATIONS SHALL BE FIRESTOPPED. CONTRACTOR SHALL GET APPROVAL FROM SCHOOL DISTRICT OF PHILADELPHIA CONSTRUCTION MANAGER PRIOR TO ROUTING CONDUITS. SEE DWG E501 FOR DETAIL OF CONDUIT PENETRATION OF EXTERIOR WALL.
- PROVIDE POWER FOR GENERATOR ACCESSORIES: ANTI-CONDENSATE HEATER, BLOCK HEATER, CONVENIENCE RECEPTACLE, AND BATTERY CHARGER. UTILIZE DEDICATED 120V, 20AMP CIRCUITS FOR EACH ACCESSORY: ANTI-CONDENSATE HEATER EP2/13, BLOCK HEATER EP2/15, BATTERY CHARGER EP2/14, CONV. RECEPTACLE EM/16. PROVIDE (2) #12 + (1) #12 GND. FOR EACH CIRCUIT ROUTED WITHIN 1-1/2" CONDUIT TO GENERATOR. BREAKERS UTILIZED FOR GENERATOR ACCESSORIES SHALL BE LOCKED IN THE NORMAL/EMERGENCY SWITCH
- PROVIDE NEW EMERGENCY STOP BUTTON AND GENERATOR ANNUNCIATOR WITH WIRE GUARD CAGE, COMPATIBLE WITH NEW GENERATOR. PROVIDE 1" CONDUIT FROM GENERATOR TO EM. STOP BUTTON AND ANNUNCIATOR FOR INTERCONNECTION OF BUTTON AND ANNUNCIATOR TO GENERATOR CONTROL PANEL. PROVIDE WIRING INTERCONNECTION PER GENSET MANUFACTURER REQUIREMENTS. ANNUNCIATOR PANEL AND EM. STOP BUTTON TO BE LOCATED WITHIN BUILDING ENGINEER'S OFFICE.
- ' | SHALL BE PROVIDED WITH AUTOMATIC ENGINE EXERCISER FUNCTION PROVIDE NEW NORMAL POWER FEEDER FROM EXISTING DISCONNECT SWITCH TO NEW ATS.

 GENERATOR IS NOT A SEPARATELY DERIVED SYSTEM, GROUNDED NEUTRAL CONDUCTOR SHALL BE SOLIDLY

PROVIDE NEW 100A, 2 POLE, 240V, 3-WIRE ATS, ASCO 300 SERIES OR APPROVED EQUAL. ATS CONTROLLER

- 8 GENERATOR IS NOT A SEPARATELY DERIVED SYSTEM, GROUNDED NEUTRAL CONDUCTOR SHALL BE SOLIDLY INTERCONNECTED TO SUPPLY FEEDER CONDUCTORS NEUTRAL AT AUTOMATIC TRANSFER SWITCH. NEUTRAL CONDUCTOR SHALL NOT BE SWITCHED.

 NEW CUSTOM PANEL "EP1". SEE SINGLE LINE DIAGRAM AND DWG E601 FOR MORE DETAILS. RECONNECT ALL
- EXISTING (QTY 20) BRANCH CIRCUITS TO NEW PANEL BOARD. PROVIDE NAME PLATE PLACARDS FOR EACH BRANCH CIRCUIT. PANEL BOARD SHALL BE PROVIDED WITH (2) MAIN BREAKERS: (1) MCB FOR EMERGENCY ONLY FEEDER, (1) MCB FOR NORMAL/EMERGENCY FEEDER TO PANEL BOARD. PROVIDE PLACARD LABELS FOR EACH MAIN BREAKER. PROVIDE A TVSS FOR NEW PANEL BOARD: 30A, DISCONNECT WITH (2) 30A FUSES AND TRANSIENT SURGE SUPPRESSION DEVICE. RUN #10 AWG FROM DISCONNECT TO FEED THRU LUGS ON NORMAL POWER BUS BAR.

 PROVIDE A PLACARD LABEL AT PANEL BOARD IDENTIFYING THAT THE PANEL BOARD IS SUPPLIED FROM (2)
- SOURCES OF POWER. PLACARD SHALL STATE: "PANEL BOARD IS SUPPLIED FROM TWO SOURCES OF POWER. TO DE-ENERGIZE PANEL BOARD: 1. SHUT OFF EMERGENCY ONLY MAIN BREAKER AND NORMAL/EMERGENCY MAIN BREAKER, AND LOCK OUT BREAKER. AUTOMATIC TRANSFER SWITCH SHALL BE LOCKED INTO OPEN SWITCH POSITION."
- PROVIDE BOLLARD AROUND FENCE FOR PROTECTION AGAINST VEHICULAR TRAFFIC. SEE DWG E501 FOR BOLLARD DETAIL.
- CONTRACTOR SHALL FIELD COORDINATE THE EXACT LOCATION OF STORM WATER GRATE WITH THE LOCATIONS OF THE BOLLARDS AND FENCE. CONTRACTOR SHALL INSTALL BOLLARDS AND FENCE TO AVOID THE EXISTING STORM WATER GRATE.

100% CD BID SUBMISSION SEPTEMBER 5, 2018

OFFICE OF CAPITAL PROGRAMS

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| NO. | DATE | REVISION |

SCHOOL & LOCATION
PAUL DUNBAR
ELEMENTARY SCHOOL
1750 N. 12TH STREET

PHILADELPHIA, PA 19122
PROJECT TITLE

GENERATOR REPLACEMENT

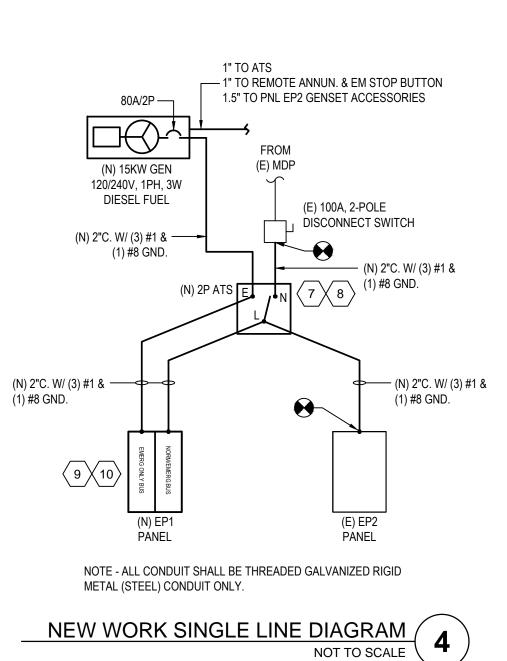
DRAWING TITLE

BASEMENT NEW WORK PLAN

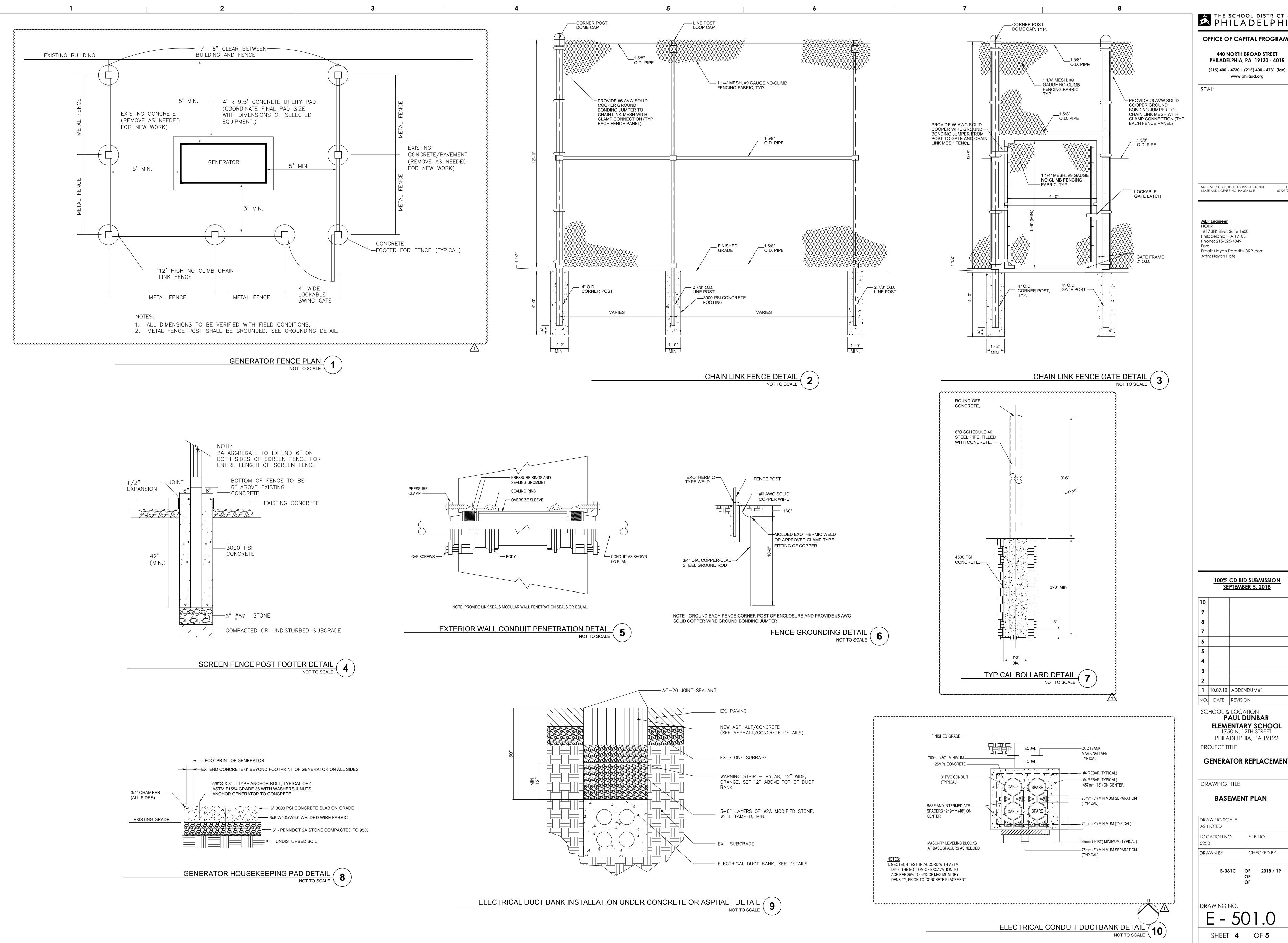
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PROJECT SITE PLAN NTS 3



THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

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> 100% CD BID SUBMISSION **SEPTEMBER 5, 2018**

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SCHOOL & LOCATION PAUL DUNBAR **ELEMENTARY SCHOOL** 1750 N. 12TH STREET

GENERATOR REPLACEMENT

BASEMENT PLAN

LOCATION NO. FILE NO. CHECKED BY B-061C OF 2018 / 19

DRAWING NO. E - 501.0 SHEET 4 OF 5