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: Edward T. Steel Elementary School – Emergency Generator Replacement
SDP Contract No. B-057 (C) of 2016/17

Location: Edward T. Steel Elementary School
4301 Wayne Ave.
Philadelphia, Pennsylvania 19140

This Addendum, dated September 20, 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:

E101 – Revised generator location and bollards have been added. Conduits from the generator outside the building shall be routed under-ground.

E501 – Added bollard and conduit routing details.

Bid RFIs:

Question #1: Is the electrical contractor responsible to demolish the 24" x 24" fresh air intake duct work connected to the existing emergency generator?

Response – Yes. The electrical contractor shall be responsible for all work which includes demolish of ductwork.

Question #2: Will the school district environmental people clean up the oil residue all over the floor?

Response – The Electrical Contractor (EC) will be responsible for the disconnection of the service from the equipment. The EC will also be required to provide a schedule to the SDP Construction Project Management Team upon service disconnection that allows for remediation as necessary. At least 2 weeks' notice is required to allow for oil spill remediation to be performed (if necessary) by the SDP OEMS at no additional cost to the EC.

Question #3: Is the electrical contractor responsible to demolish the existing normal feeder and existing 480v to 120/208v transformer that now feeds the transfer switch?

Response – Yes, as indicated on drawing E101, the electrical contractor is responsible for all demolition of existing equipment and feeders.

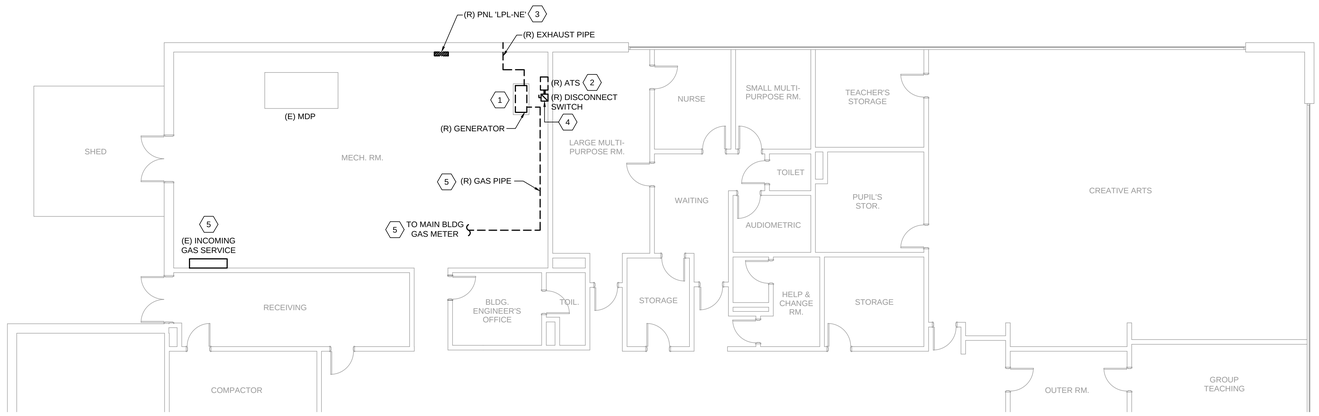
Question #4: Are bollards required to protect the fence in the parking lot where we are installing the new generator?

Response – Bollards are required to protect the fence. See updated drawing E101 and E501

Question #5: A small manhole labeled “Water” is in the exact location of the pad for the new generator. Should the generator be relocated?

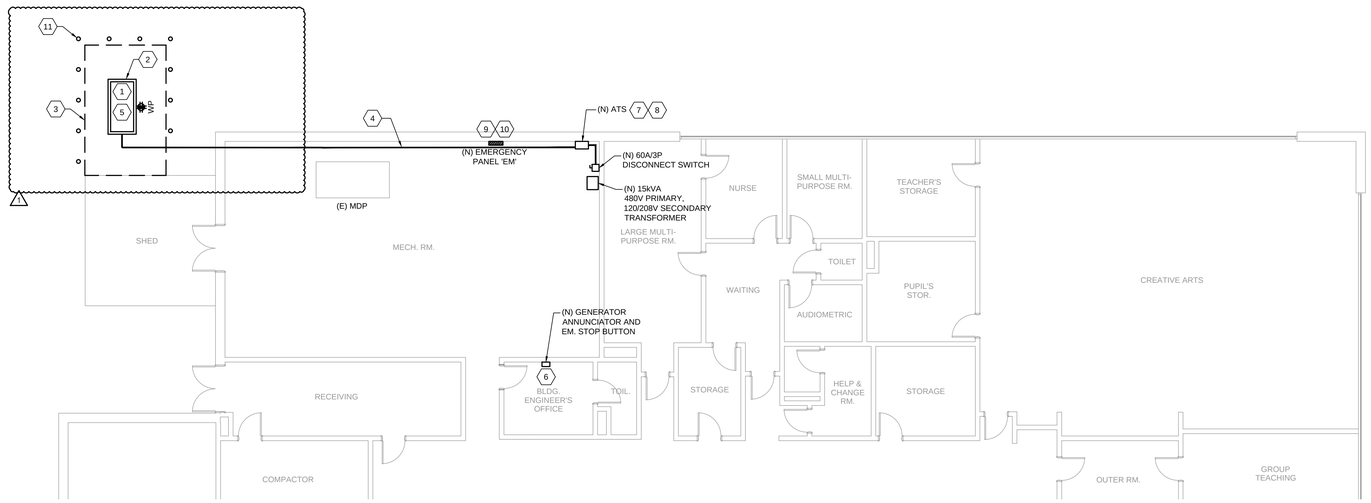
Response – The generator shall be located with required clearance away from any existing utilities. See updated drawing E101.

End of Addendum



PARTIAL DEMOLITION PLAN 1
1/8" = 1'-0"

DEMOLITION KEYNOTES	
1	DISCONNECT AND REMOVE GENERATOR, ALL ASSOCIATED ACCESSORIES (BATTERY CHARGERS, EXHAUST MANIFOLD, ETC), AND ALL ASSOCIATED WIRING AND CONDUIT. EXISTING CONCRETE HOUSEKEEPING PAD FOR GENERATOR TO REMAIN. DISCONNECT AND REMOVE ALL EXHAUST AND GAS PIPING AND HANGERS, PATCH AND REPAIR WALL PENETRATION FOR EXHAUST PIPING.
2	DISCONNECT AND REMOVE 100A, 3-POLE, 600V AUTOMATIC TRANSFER SWITCH (ATS). DISCONNECT EMERGENCY LINE FEEDERS, LOAD FEEDERS, AND ASSOCIATED CONDUIT. NORMAL POWER FEED FROM MDP TO BE DISCONNECTED AND PREPARED TO CONNECTION TO NEW AUTOMATIC TRANSFER SWITCH.
3	DISCONNECT AND REMOVE FUSED EMERGENCY PANEL. DISCONNECT AND SAFE OFF ALL (36) BRANCH CIRCUITS, PREPARE FOR RECONNECTION TO NEW PANEL BOARD. REMOVE EXISTING EMERGENCY ONLY AND NORMAL/EMERGENCY POWER FEEDERS AND CONDUIT BACK TO EXISTING AUTOMATIC TRANSFER SWITCH.
4	REMOVE EXISTING 100A, 600V FUSED DISCONNECT SWITCH. DISCONNECT AND REMOVE ALL INCOMING AND OUTGOING CONDUIT AND WIRING.
5	EXISTING GAS SERVICE FOR GENERATOR TO BE REMOVED BACK TO INCOMING GAS SERVICE. CAP AND SEAL PIPING AT TEE OR CROSS FITTING.

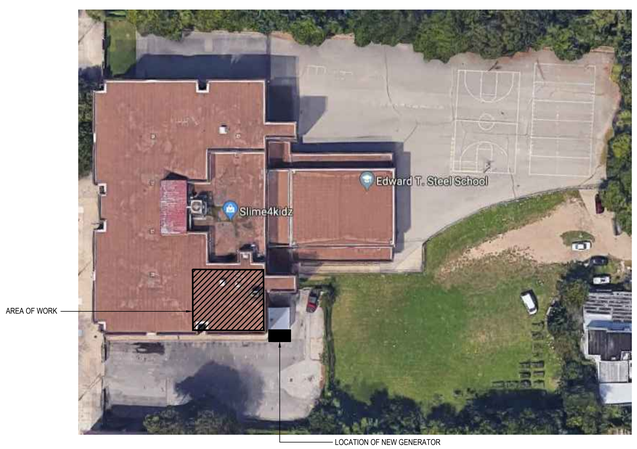


PARTIAL NEW WORK PLAN 2
1/8" = 1'-0"

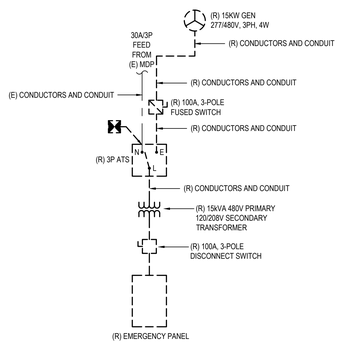
GENERAL NOTES:

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

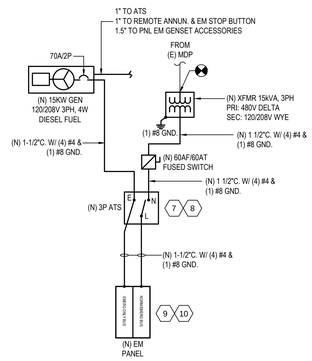
NEW WORK KEY NOTES	
1	PROVIDE NEW DIESEL GENERATOR WITH LEVEL 1 SOUND ATTENUATING WEATHERPROOF ENCLOSURE. GENERATOR SHALL BE RATED FOR 15KW, 480/277V, 3PH, WITH 80A/2P MCB AT GENERATOR CONTROL PANEL. PROVIDE GENERATOR WITH 48-HOUR DOUBLE-WALLED SKID-BASED DIESEL FUEL TANK WITH OVERFLOW AND SECONDARY VENTILATION, MOUNTED UNDER GENERATOR. LOCATE GENERATOR WITH CLEARANCE FROM ANY EXISTING UTILITIES. FIELD COORDINATE EXACT LOCATION.
2	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. FIELD COORDINATE EXACT LOCATION OF GENERATOR PAD WITH REQUIRED CLEARANCE FROM ANY EXISTING UTILITIES. SEE DWG E501 FOR GENERATOR PAD DETAIL.
3	PROVIDE CHAIN LINK FENCE FOR GENERATOR. SEE DWG E501 FOR FENCING DETAILS. CHAIN LINK FENCE GATE SHALL OPEN ON THE SIDE FACING THE BUILDING.
4	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 UNDER-GROUND 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 AND ENTER INTO ROOM. COORDINATE EXACT PATHWAY IN FIELD. SEE DWG E501 FOR DETAIL OF CONDUIT PENETRATION OF EXTERIOR WALL.
5	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 - EM/24, BLOCK HEATER - EM/26, BATTERY CHARGER - EM/28, CONV. RECEPTACLE - EM/30. 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 POSITION.
6	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.
7	PROVIDE NEW 100A, 3 POLE, 208V, 3-WIRE ATS, ASCO 300 SERIES OR APPROVED EQUAL. ATS CONTROLLER SHALL BE PROVIDED WITH AUTOMATIC ENGINE EXERCISER FUNCTION. RECONNECT EXISTING NORMAL POWER FEEDER TO NEW ATS.
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.
9	NEW CUSTOM PANEL "EM". SEE SINGLE LINE DIAGRAM AND DWG E601 FOR MORE DETAILS. RECONNECT ALL EXISTING (QTY 36) 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.
10	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."
11	PROVIDE BOLLARD AROUND FENCE FOR PROTECTION AGAINST VEHICULAR TRAFFIC. SEE DWG E501 FOR BOLLARD DETAIL.



PROJECT SITE PLAN 3
NTS



DEMOLITION SINGLE LINE DIAGRAM 4
NOT TO SCALE



NEW WORK SINGLE LINE DIAGRAM 5
NOT TO SCALE

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PROJECT TITLE
EMERGENCY GENERATOR REPLACEMENT

DRAWING TITLE
PARTIAL FIRST FLOOR PLAN – DEMOLITION AND NEW WORK PLAN

APPROVED BY

SCHOOL DISTRICT OF PHILADELPHIA
THE SCHOOL REFORM COMMISSION
DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
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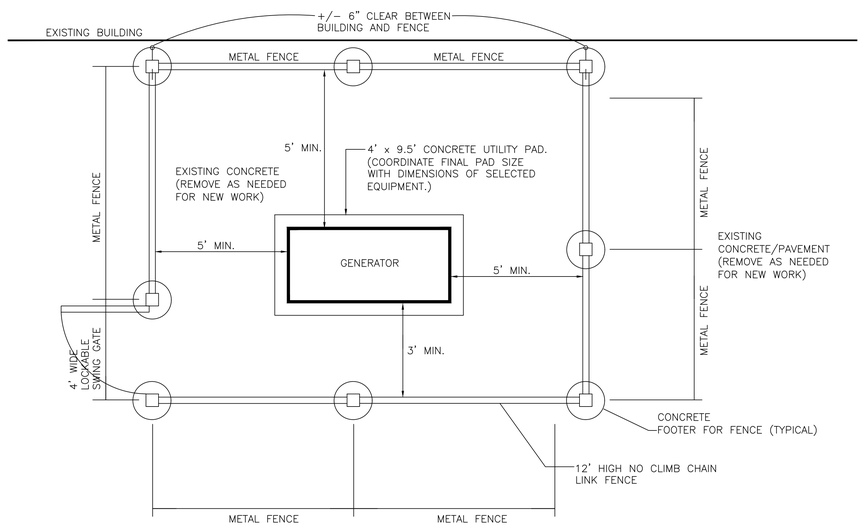
CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE

NO.	DATE	REVISION
1	09.19.18	ADDENDUM#1
2	08.17.18	ISSUED FOR BID

SPEC NO. B-057C 2017/18	DATE 08/17/18
SCALE AS NOTED	LOCATION NO.
DRAWN BY BAS	TYPE NO.
CHECKED BY NVP	FILE NO.

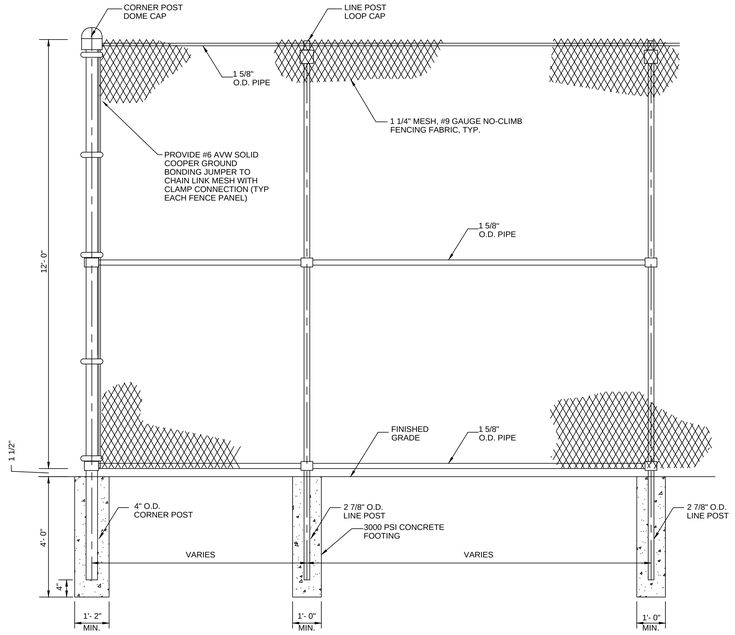
DRAWING NO.
E101

B-057C SHEET 2 OF 2017/18 OF 4



NOTES:
1. ALL DIMENSIONS TO BE VERIFIED WITH FIELD CONDITIONS.
2. METAL FENCE POST SHALL BE GROUNDED. SEE GROUNDING DETAIL.

GENERATOR FENCE PLAN 1
NOT TO SCALE



CHAIN LINK FENCE DETAIL 2
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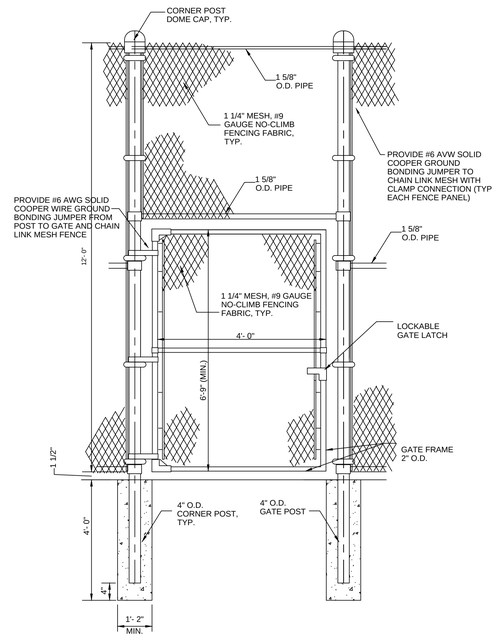
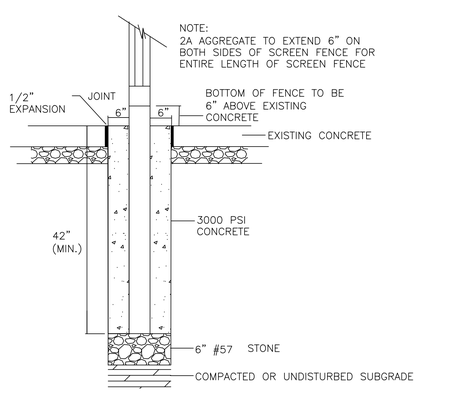
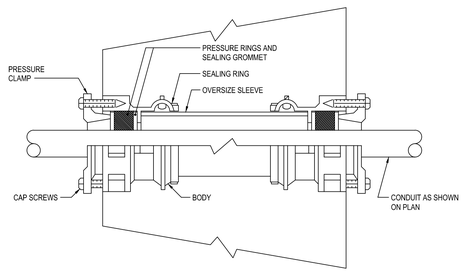


CHAIN LINK FENCE GATE DETAIL 3
NOT TO SCALE

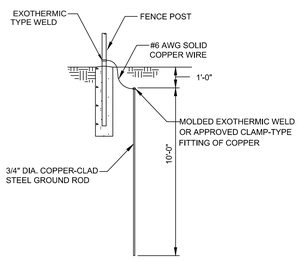


SCREEN FENCE POST FOOTER DETAIL 4
NOT TO SCALE



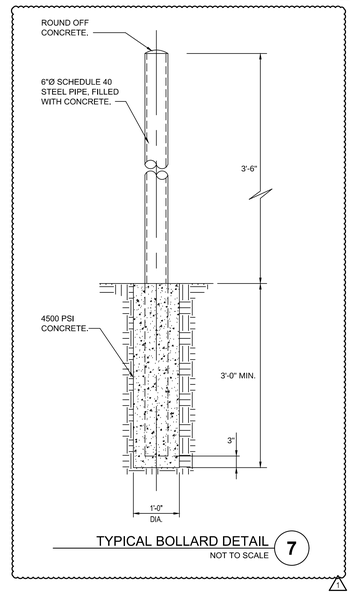
NOTE: PROVIDE LINK SEALS MODULAR WALL PENETRATION SEALS OR EQUAL.

EXTERIOR WALL CONDUIT PENETRATION DETAIL 5
NOT TO SCALE

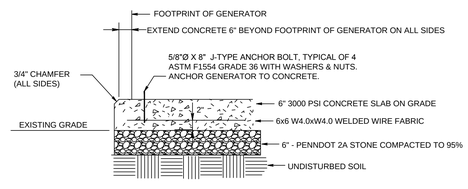


NOTE - GROUND EACH PENCE CORNER POST OF ENCLOSURE AND PROVIDE #6 AWG SOLID COPPER WIRE GROUND BONDING JUMPER

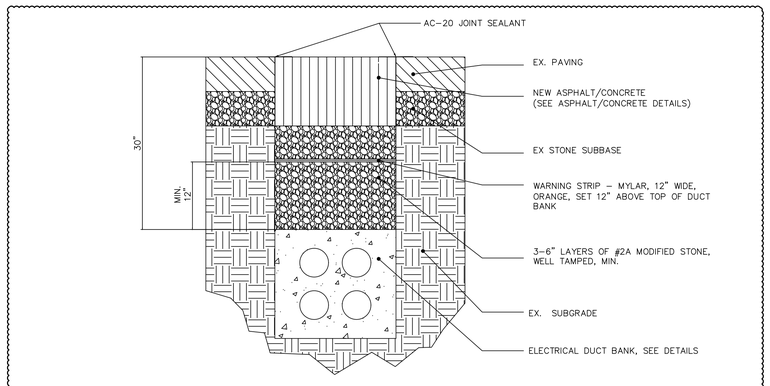
FENCE GROUNDING DETAIL 6
NOT TO SCALE



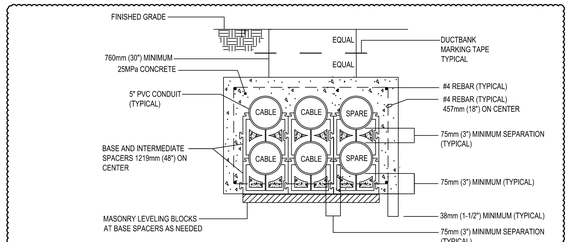
TYPICAL BOLLARD DETAIL 7
NOT TO SCALE



GENERATOR HOUSEKEEPING PAD DETAIL 8
NOT TO SCALE



ELECTRICAL DUCT BANK INSTALLATION UNDER CONCRETE OR ASPHALT DETAIL 9
NOT TO SCALE



NOTES:
1. GEOTECH TEST, IN ACCORD WITH ASTM D698, THE BOTTOM OF EXCAVATION TO ACHIEVE 85% TO 95% OF MAXIMUM DRY DENSITY, PRIOR TO CONCRETE PLACEMENT.

ELECTRICAL SECONDARY CONDUIT DUCTBANK DETAIL 10
NOT TO SCALE

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7		
6		
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SPEC NO. B–057C 2017/18	DATE 08/17/18
SCALE AS NOTED	LOCATION NO.
DRAWN BY BAS	TYPE NO.
CHECKED BY NVP	FILE NO.

DRAWING NO.
E501

B–057C OF 2017/18
SHEET 3 OF 4