

LEGEND:

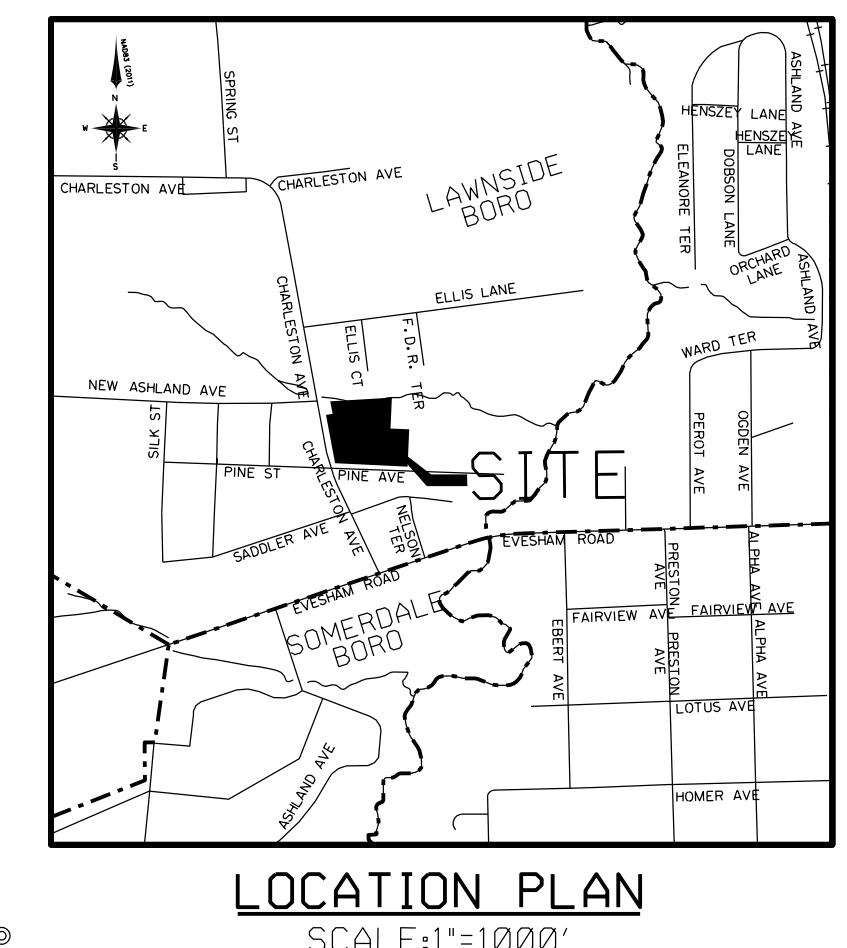
PROPERTY LINE
 EX. FDN
 PROP. FDN
 FENCE
 PROPERTY SETBACK
 BOLLARD
 69KV WOOD POLE
 SLIDING GATE
 PROP. SPOT ELEV. +69.65
 PROP. CONTOUR 69
 EXIST. TREE LINE
 PROP. TREE LINE
 RELOCATED 60' LIGHTNING MAST

CO CLEAN OUT
 C.R. CARD READER (GATE OPER.)
 H.P. HIGH POINT
 T.W. TOP OF WALL
 W.M. WATERBOUND MACADAM
 T.C. TOP OF CURB
 EX. EXISTING
 HH HANDHOLE
 HW HEADWALL
 MH ELECTRICAL MANHOLE
 O.S. OUTLET STRUCTURE
 R.A. RIP-RAP APRON
 SL&Ps STATION LIGHT & POWER TRANSFORMERS
 S.M. STORM MANHOLE
 SS SANITARY SEWER (4" D.I.P.) (SLOPE=0.25%)
 TPS TEMPORARY POLE SET
 W WATER (1/2" TYPE K COPPER)
 W.P. WORK POINT
 W.V. WATER VALVE
 BENCH MARK
 SLOPE
 YARD STONE
 RIP RAP
 GRASS PAVERS
 REINFORCED CONCRETE
 ASPHALT
 RETAINING WALL SECTIONS (SEE DWG. 760762)
 CONCRETE MANHOLE COLLAR
 DRIVEWAY RADIi COORD. NO. (SEE SCHEDULE DWG. 760761)

CONSTRUCTION NOTES:

1. ALL WORK DONE BY CONTRACTOR/INSTALLER PURSUANT TO THIS DRAWING SHALL: (A) CONFORM TO THE GOVERNING CONTRACT DOCUMENTS; (B) BE PERFORMED EXCLUSIVELY BY ITS TRAINED, COMPETENT PERSONNEL OR, WHERE PERMITTED, THAT OF ITS SUBCONTRACTOR(S); AND (C) COMPLY WITH ALL APPLICABLE SAFETY LAWS, REGULATIONS, PROGRAMS AND PRACTICES TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING THE CONTRACTOR'S/INSTALLER'S PERSONNEL OR THAT OF ITS SUBCONTRACTOR(S) PERFORMING THE WORK.

2. CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL OR THAT OF ITS SUBCONTRACTOR(S) PERFORMING THE WORK.



- ### NOTES:
- COORDINATES INDICATED ARE STATION COORDINATE SYSTEM, STATE PLANE COORDINATE SYSTEM (NAD 83/2011) TO BE USED TO SET BENCHMARKS, VERTICAL DATUM SHOWN IS NAVD-88. CONTRACTOR SHALL ESTABLISH BENCHMARK FOR VERTICAL CONTROL AS INDICATED. ELEVATIONS INDICATED ARE FINISH GRADE ELEVATIONS (TOP OF CRUSHED ROCK/DRIVEWAY SURFACING) UNLESS OTHERWISE NOTED.
 - EXISTING CONDITIONS ARE SHOWN IN GREY.
 - YARD AREAS WITHIN FENCE TO HAVE 4" THICK LAYER OF 3/4" CRUSHED STONE UP TO FENCE LINE AND 3' BEYOND. REFER TO PSE&G SPEC. 18, "CIVIL/STRUCTURAL/ENVIRONMENTAL DESIGN STANDARDS FOR SWITCHING AND SUBSTATIONS".
 - CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EARTH-MOVING ACTIVITIES.
 - SILT FENCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION. EXISTING TURF AREAS, DISTURBED BY CONSTRUCTION AND NEW TURF AREAS SHALL BE ESTABLISHED IN ACCORDANCE WITH NEW JERSEY SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS, SEE DWGS. 760769 THRU 760771.
 - FOR SITE DETAILS, SEE DWGS. 760761 THRU 760763. EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SITE GEOTECHNICAL REPORT PREPARED BY MELICK-TULLY & ASSOCIATES, A DIVISION OF GZA DATED MAY 22, 2019 FOR LAWSIDE SUBSTATION EXPANSION AND PSE&G GEN. SPEC. NO. 15-CIVIL05, "EXCAVATION AND TRENCHING FOR SWITCHING AND SUBSTATIONS".
 - EXISTING CONDITIONS/ITEMS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION AND IF DISTURBED OR DAMAGED THE CONTRACTOR SHALL REPAIR/REPLACE IN-KIND. SURVEY INFORMATION OF EXISTING SITE CONDITIONS IS PROVIDED BY OTHERS (SHOWN IN GRAYSCALE).
 - ASPHALT APRON FOR PRECAST TRENCH TO BE PER PSE&G STANDARD DWG. 716003.
 - REINFORCED CONCRETE COLLARS FOR NEW 69KV MANHOLES TO BE 8" THICK X 10'-0" SQUARE PER PSE&G STANDARDS.
 - AS SHOWN ON THE SURVEY, THE WETLAND TRANSITION AREA LIMIT DELINEATED IN THE FIELD AS PART OF AN LOI COMPLETED BY PSE&G.
 - PROVIDE 24" DIA. X 6'-0" DEEP ADS N-12 PIPE SECTION, FLUSH WITH GRADE (FOR TEMP. MOBILE WOOD POLE SETS). FILL PIPES WITH CLEAN SAND FOR FULL DEPTH.
 - SUBSTATION FENCE TO BE 8'-0" HIGH CHAIN LINK FENCE. STORMWATER BASIN FENCE TO BE 4'-0" HIGH CHAIN LINK FENCE. SEE DETAILS ON DWG. 760761.
 - PRECAST FIRE WALL AND COLUMNS, FOR STATION LIGHT AND POWER (SL&P) TRANSFORMERS, TO BE 8'-0" HIGH, 2-HOUR FIRE-RATED AND BE IN ACCORDANCE WITH PSE&G GEN. SPEC. NO. 13-CIVIL19 "PRECAST CONCRETE FIRE/SOUND WALLS AND PILASTERS FOR SWITCHING AND SUBSTATIONS". FOUNDATIONS AND CONTAINMENT TO BE IN ACCORDANCE WITH PSE&G STANDARD DWG. 716005.
 - ACCESS ROADS FROM DRIVE APRONS TO SUBSTATION GATES SHALL BE ASPHALT PAVED IN ACCORDANCE WITH PSE&G GENERAL SPEC. NO. 13-CIVIL04 "PAVING FOR SWITCHING AND SUBSTATIONS".
 - THE PROJECT SITE IS IN ZONE A, AREA OF MINIMAL FLOOD HAZARD, PER FEMA PANEL 34007C0107E ZONE A.
 - WORK INCLUDES REMOVAL OF EXISTING CONTROL BLDG., 69KV EQUIPMENT AND FOUNDATIONS, AND RELOCATION OF TWO (2) EXISTING 60' LIGHTNING MASTS.
 - UTILITY POLE TO BE RELOCATED BETWEEN CURB & SIDEWALK.
 - CONTRACTOR SHALL PROVIDE A SURVEY AND NJPE SIGNED/SEALED PLAN AND PROFILE DRAWING FOR MILLING/REPAVING/RESTORATION OF PINE STREET (2" DEPTH MILLING/REPAVING FROM CURB TO ROAD CENTERLINE, FOR INDICATED LENGTH OF ROAD AND RESTORATION OF ROAD FOR DUCT BANK CROSSING) FOR BOROUGH REVIEW/ APPROVAL AT LEAST 4 WEEKS PRIOR TO START OF WORK. METHODS, MATERIALS AND THICKNESSES SHALL BE AS APPROVED BY THE BOROUGH. PAVEMENT MARKINGS (ROAD CENTERLINE, CROSSWALK AND STOP BAR) SHALL BE RE-ESTABLISHED TO MATCH EXISTING.

PLAN SCALE: 1" = 20'-0"

LIST OF DRAWINGS FOR SITE DETAILS

COMPONENT	DRAWING NUMBER
RETAINING WALLS	760762
FENCE AND GATES	760761
GIS/CONTROL BLDG.	760763
ENTRANCE SLABS	760761
DRIVEWAYS	760761
SUBSTATION CURB	760761
BOLLARDS	760761
LIGHTNING MAST	760762
GRASS PAVERS	760762
SIDEWALK AND CURB	760763
DRIVEWAY APRON	760763
SEWER CONNECTION	760763
WATER CONNECTION	760763

- ### EXCAVATION NOTES:
- THE PRESENCE OF HAZARDOUS (E.G., ELECTRICAL DUCT BANKS, GAS LINES, ETC.) MAY ONLY BE SHOWN ON OTHER DISCIPLINE DRAWINGS.
 - CONTRACTOR MUST COMPLY WITH THE TRENCHING AND EXCAVATION REQUIREMENTS OF OSHA 29 CFR 1926.650 AND 1926.652. ALL EXCAVATIONS GREATER THAN 5 FEET IN DEPTH SHALL HAVE THEIR SIDES SLOPED PER OSHA REQUIREMENTS.

DRIVEWAY CONSTRUCTION RADIi COORDINATES & SIZES

POINT	NORTHING	EASTING	SIZE (R)
1	N0+35.96'	W1+12.96'	18'
2	N0+17.65'	W1+31.27'	18'
3	S0+43.96'	W1+19.27'	30'
4	S0+78.76'	W1+01.46'	18'
5	N0+23.96'	W1+00.00'	30'
6	S0+78.76'	W0+88.00'	18'
7	N0+29.96'	W0+34.00'	20'
8	S0+94.04'	W0+19.00'	35'
9	N0+14.96'	W0+09.17'	35'
10	S0+94.04'	W0+09.17'	35'
11	N0+29.96'	E0+61.83'	20'
12	S0+94.04'	E0+76.83'	35'
13	N0+60.21'	E1+08.93'	20'
14	S1+09.02'	E1+16.98'	20'
15	S0+10.79'	E1+45.00'	35'
16	S1+09.96'	E1+58.00'	5'
17	S0+94.96'	E1+60.00'	20'

FENCE OR WALL OR BASIN BOTTOM COORDINATE POINTS

POINT	NORTHING	EASTING	TOP OF WALL EL.	BOTTOM OF WALL EL.
1	N0+30.18'	W1+70.00'	-	-
2	S0+80.99'	W1+70.00'	-	-
3	S1+47.04'	W1+55.89'	-	-
4*	S1+47.04'	E1+98.25'	68.00'	65.0'
5	N0+12.31'	E1+98.25'	68.00'	61.1'
6	N0+43.46'	E1+67.10'	68.00'	58.3'
7	N0+43.46'	E1+01.00'	68.00'	58.8'
8	N0+69.46'	E0+84.40'	69.00'	57.9'
9	N0+69.21'	W1+31.21'	69.00'	67.6'
10	N0+70.75'	E0+85.12'	60.75'	57.9'
11	N1+21.46'	E0+85.12'	60.75'	54.4'
12	N1+21.46'	W0+55.38'	60.75'	53.3'
13	N0+98.96'	W0+55.38'	60.75'	57.0'
14	N0+98.96'	W1+02.88'	69.00'	54.0'
15*	N0+69.21'	W1+02.88'	69.00'	67.8'
16	N1+05.38'	W0+34.30'	-	-
17	N1+05.38'	E0+69.05'	-	-
18	N0+84.53'	E0+69.05'	-	-
19	N0+84.53'	W0+34.30'	-	-
20*	N0+69.45'	W0+88.37'	69.00'	68.0'

BENCHMARKS

POINT	STATION COORDINATES	STATE PLANE COORDINATES	ELEVATION		
	NORTHING	EASTING	NORTHING	EASTING	
BM1	S0+26.00'	W0+70.00'	LATER	LATER	*
BM2	S1+49.19'	W0+70.00'	LATER	LATER	*
BM3	S1+49.19'	E2+04.39'	LATER	LATER	*

*-BENCHMARK ELEVATION TO BE SET BY CONTRACTOR'S SURVEYOR.

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SYSTEM CODE: 2140
 AREA ELEV.: 6422

GENERAL NOTES:
 USE PRINTS OF LATEST REVISION ONLY.
 DO NOT SCALE - USE DIMENSIONS ONLY.
 FOR LIST OF REFERENCE DRAWINGS SEE DRAWING NO. 760764.
 THIS DRAWING SUPERSEDES 223492.
 THIS DRAWING IS SHEET NO. 1 OF 1 SHEETS.

EUGENE R. PORZIO
 N.J. PROFESSIONAL ENGINEER
 L.I.C. NO. 34431
 C.O.A. 240A27971100

PROJ. No. 13739-103

NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION	DNW	DKD	EXD	APD

YARD CIVIL/ENVR

REVISION
 LAWSIDE SUBSTATION
 69/13 KV SUBSTATION
 FENCE AND DRIVEWAYS
 PLAN

PSE&G
 PUBLIC SERVICE ELECTRIC AND GAS COMPANY
 ELECTRIC DELIVERY COMPANY - ASSET RELIABILITY, NEWARK, N.J.

DRAWN: J. J. J. CHECKED: G. PORZIO SCALE: 1"=20'-0"
 DATE: 02/24/20 EXAMINED: _____
 WBS/SD: C-920021811-21 APPROVED: _____

760760 A - 0