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Date: September 5, 2024
Our Ref: 30227017
Subject: National Grid
North Albany Service Center
Electric Vehicle Charging Station Construction Project
Proposed Construction Environmental Requirements

Dear Ms. White,

On behalf of National Grid, this letter presents the proposed environmental requirements for ground-intrusive aspects of the upcoming direct current fast charging (DCFC) station construction project at the National Grid North Albany Service Center (see Figure 1 for site location). The proposed DCFC station is located northwest of the guard station, within the footprint of the former manufactured gas plant (MGP) site and boundaries of New York State Department of Environmental Conservation (NYSDEC) Site No. 401040 (see Figure 2). The proposed DCFC station is within the area proposed for capping as part of the final remedy for this site in accordance with the NYSDEC's Record of Decision (ROD) dated March 31, 2016.

Soil conditions near the proposed DCFC station have been characterized by previous investigations, including the site-wide Preliminary Site Assessment/Interim Remedial Measures (PSA/IRM) Study conducted during 1994, a Pre-Design Investigation (PDI) in the MGP area conducted in 2000, and the Focused Investigation conducted in 2020 in support of the guard station relocation. No coal tar dense non-aqueous phase liquid (DNAPL) has been identified in shallow soil samples collected from borings closest to the DCFC station. The soil analytical results for sampling locations closest to (and most relevant to this project) are from the 2020 Focused Investigation and are all less than the NYSDEC commercial soil cleanup objectives (SCOs) presented in Title 6 of the New York Codes, Rules, and Regulations (6 NYCRR) Part 375-6.8b, with the exception of slight exceedances of benzo(a)pyrene.

Relevant background information, including an overview of the proposed DCFC station project and additional historical environmental data for the area near the construction area, is presented below and followed by the proposed environmental requirements for the contractors that will perform the construction.

I. BACKGROUND INFORMATION

The proposed DCFC station construction will require: (1) removing asphalt in the western portion of the asphalt-paved parking lot (north of the new guard station and bordering Broadway); (2) excavating surface soil west of the paved parking lot and pavement subbase/soil below the parking lot (anticipated to generate up to approximately 160 cubic yards [CY] of material) for installation of new structures; (3) installing new structures, consisting of a new transformer, switchgear, switch boards, electric vehicle chargers, and associated subsurface features, including foundations and buried duct banks/conduits, etc.; (4) installing approximately 20 bollards to

approximately 4 feet below ground surface (bgs) around the new structures; (5) installing approximately 275 lineal feet (LF) of new electrical cable/duct bank west of the proposed new charging stations and parking spaces; and (6) installing approximately 240 LF of 2-inch diameter natural gas main east of the proposed new charging stations. Details of the ground-intrusive work planned for the DCFC station are shown on the design drawings (Attachment 1) and provided below:

- **Asphalt Removal:** Asphalt will be removed from four areas, including: (1) within the footprint of the new transformer pad (approximately 14 feet wide by 14 feet long); (2) within the footprint of the new switchboards pad (approximately 9 feet wide by 12 feet long); (3) along the proposed alignment for the new natural gas main (240 LF by 3 feet wide); and (4) along the alignment for a new electrical duct bank from a future vault location north to the proposed transformer and switchgear (35 LF by 3 feet wide) and from the future vault location extending east across the proposed new gas main alignment (for potential future DCFC connections) (20 LF by 3 feet wide). The asphalt pavement is assumed to be approximately 6-inches thick. Therefore, an estimated 22 CY of asphalt will be generated by the removal.
- **Stone Removal:** Crusher run stone subbase will be removed within the same areas identified for asphalt removal above. Stone subbase is assumed to be approximately 6-inches thick, for a total of 22 CY of stone.
- **Soil Excavation:** Soil will be excavated from several areas for installation of new electric cables/duct banks, a gas main, concrete pads for the transformer and switchboards, bollards, and trees, as described below:
 - **Electric Cables/Duct Bank:** Approximately 240 LF of trench will be excavated in the existing grass-covered area for new electric service to the transformer and vehicle chargers, between the existing security fence along Broadway and the parking lot. The new electric service will generally extend north to south (parallel to Broadway) in this grass-covered area. An approximately 35-foot section of duct bank will be installed in an existing paved area as identified above. Assuming the trenches are 1.25 to 2.75 feet wide (depending on the number of electric cables) and an average of 3.5 feet deep, the trench excavation will generate approximately 72 CY of spoils (69 CY of soil; 3 CY of asphalt/stone). Excavation for an electric hand hole north of the four EV charging stations (assumed to be 5 feet wide, 5 feet long, and 5 feet deep) will generate an additional 5 CY of soil.
 - **Natural Gas Main:** Approximately 240 LF of trench will be excavated for a new gas main to be installed approximately 25 feet east of the existing gas main. The new gas main will generally extend north to south (parallel to the existing gas main) in the asphalt covered driveway between the first and second rows of parking spaces. Assuming the trench is 3 feet wide and an average of 3 feet deep, the trench excavation will generate approximately 80 CY of spoils (13 CY of asphalt, 13 CY of stone, and 54 CY of soil).
 - **Concrete Pads:** The design drawings show installation of six new concrete pads for the transformer, switchboards, and charging stations between the site security fence and parking lot. The base of the excavations for the transformer, switchboards, and charging station pads is assumed to be approximately 24-, 14-, and 12-inches, respectively. The excavations for the transformer, switchboards, and charging stations are assumed to be 14 feet wide by 14 feet long, 12 feet wide by 9 feet long, and 8 feet wide by 8 feet long, respectively, resulting in the generation of approximately 29 CY of excavation spoils (6 CY of asphalt, 6 CY of stone, and 17 CY of soil).
 - **Bollards:** A total of 32 bollards will be installed adjacent to the new concrete pads to prevent vehicles damaging the transformer, switchboards, and charging stations. Assuming the excavations are 1.5 feet

wide, 1.5 feet long, and 4 feet deep, removal will result in generation of 11 CY of excavation spoils (0.5 CY of asphalt, 0.5 CY of stone, and 10 CY of soil).

- *Trees:* A total of eight trees will be planted south of the new DCFC station, between the guard station and site security fence. Assuming the excavations are 3 feet wide, 3 feet long, and 2 feet deep, removal will result in generation of 5 CY of soil.

Based on the estimates above, the DCFC station construction is anticipated to generate approximately 22 CY of asphalt, 22 CY of stone subbase, and 160 CY of soil/debris that will need to be properly managed. The final volumes will depend on contractor means and methods. The excavations will be backfilled with imported clean fill (crushed stone, select fill), reused crushed stone, and potentially some reused soil. The asphalt will be transported offsite for recycling. Some or all of the excavated soil/debris will be transported offsite for disposal. Before soil is reused onsite, it will be characterized in accordance with Section 5.4(e)4. of NYSDEC's Program Policy Document titled, "DER-10/ Technical Guidance for Site Investigation and Remediation", dated May 3, 2010 (DER-10) and must meet the commercial use and groundwater protection SCOs presented in 6 NYCRR Part 375-6.8b. The crushed stone may be reused without sampling.

Six soil borings were previously drilled (SB-13, SB-14, SB-139, SB-201, SB-202, and SB-203) and one test pit was excavated (TP-4) within approximately 75 feet horizontally away from the proposed construction area. One soil sample collected from each of these borings (except SB-202) and test pit were analyzed for polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and/or inorganics to assess conditions. Refer to the two figures and table in Attachment 2 for the soil boring/test pit locations and analytical results. Refer to Attachment 3 for copies of soil boring and test pit logs. The visual characterization information summarized in the soil boring/test pit logs and the laboratory analytical data demonstrate that shallow soil at those locations is unimpacted or relatively unimpacted.

II. PROPOSED ENVIRONMENTAL REQUIREMENTS FOR DCFC STATION CONSTRUCTION

The proposed excavations for the DCFC station construction will be accomplished using a standard excavator or backhoe. Sidewall support (e.g., trench boxes, slide-rail system, sloping, benching, etc.) will be provided for excavations extending below 5 feet bgs or within shallower soils that are unstable, as required per Occupational Safety and Health Administration (OSHA) requirements outlined in 29 Code of Federal Regulations (CFR) 1926, Subpart P. The groundwater table is not anticipated to be encountered during excavation; however, runoff from precipitation may collect within the excavation. The following environmental requirements have been established for the soil and water handling aspects of the proposed alterations construction work:

1. *Health & Safety:* A site-specific Health and Safety Plan (HASP) will be developed to fulfill the requirements of 29 CFR 1910 and 29 CFR 1926 and cover contractor and subcontractor personnel who will be performing the intrusive work. Contractor staff performing intrusive work activities (excavation, soil handling) will be required to have OSHA 40-hour Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) training, including 8-hour annual refresher course updates, and medical clearance in accordance with 29 CFR 1910.120. The contractor will use appropriate personal protective equipment as required by the HASP. Orange construction fence, barrels, and/or caution tape attached to temporary/moveable posts or drums will be used to demarcate the work area. Signage will also be installed to prevent unauthorized/untrained personnel from entering the work area.
2. *Dust/Vapor/Emissions Controls & Community Air Monitoring:* The contractor will be required to implement dust, vapor, and odor control measures, as needed, based on air monitoring and visual assessment (by Arcadis of New York, Inc. [Arcadis] or National Grid safety personnel) during intrusive and material handling

activities to maintain particulate and volatile organic vapor levels below the action limits identified in the Community Air Monitoring Plan (CAMP) contained in Appendix 1A to DER-10. Air monitoring will be performed upwind and downwind in accordance with the protocols presented in the CAMP. The 15-minute average air monitoring readings will be recorded by data loggers and will be e-mailed to the NYSDEC each day with a summary of the work performed that day. Instantaneous readings used to make decisions will also be documented and made available.

3. *Excavation/Material Handling:* The asphalt and any concrete within the proposed excavation area will be removed and transported for offsite recycling. Crushed stone will be set aside for later reuse. The underlying soil will be excavated to target depths and transferred to a lined material staging area or loaded directly into roll-off waste containers for further waste characterization sampling, as needed. Any onsite reuse of the excavated soil will require characterization sampling and results meeting commercial use and groundwater protection SCOs, as indicated in Section I. The material staging area will consist of polyethylene sheeting (i.e., single sheet with a minimum 30 mil thickness) placed over the asphalt pavement or gravel surface and extending over sidewalls formed using hay bales, jersey barriers, crushed stone, or similar. The material staging area will be constructed at a location selected by National Grid that does not interfere with ongoing site operations. Materials in the staging area will be covered at the end of each workday and more often during periods of precipitation, as appropriate, to minimize contact with precipitation. Each roll-off will be lined with one layer of polyethylene sheeting (minimum 10-mil thickness). In addition, the roll-offs will be covered with a low-permeability tarp (mesh tarps are prohibited) at the end of the workday, prior to departing the site, and during transport. Similarly, all dump truck beds or dump trailers will be lined and loads will be covered with a low-permeability tarp (mesh tarps are prohibited) before the truck departs the site. Loads will remain covered during transport. All covers and roll-off/dump truck/trailer gates are to be water-tight and securely closed to prevent leakage or release of wastes during transport. The waste soil/ debris generated by the excavation will be shipped from the site under waste manifest (non-hazardous or hazardous waste, depending on characterization sampling results). The waste manifests will be signed by National Grid or Arcadis (as an agent for National Grid).
4. *Water Management:* The proposed work will be performed during dry conditions, if possible. Diversion berms will be used (if needed) to direct storm water runoff around the excavation area, to minimize water handling. Runoff that collects in the excavation or material staging area (if any) will be removed by pump and/or a vacuum truck, as needed, and transferred to an onsite storage tank (e.g., frac tank). Water generated by gravity dewatering of the excavated soils and equipment decontamination will be transferred into the storage tank or vacuum truck. The wastewater generated by the project will be characterized and transported to an industrial wastewater treatment facility for offsite treatment/discharge, as appropriate based on the characterization sampling results.
5. *Erosion and Sedimentation Control Measures:* The ground surface in the proposed work area slopes gently to the east (toward the property boundary). As indicated above, diversion berms will be used as needed to direct runoff around the excavation area. Based on existing topography and the proposed excavation shape/depth, there will be no storm water "run-off" out of the excavation area. Although erosion and sedimentation control measures such as silt fencing, straw bales, or waddles are not anticipated to be needed, waddles (e.g., Siltsoxx™) will be available for use downslope from the work area should conditions change. In addition, excavated materials for reuse or offsite disposal will be stockpiled in a lined material staging area or roll-off waste containers that will be covered to minimize contact with precipitation. The lined

sidewalls of the material staging area and the steel sides of the roll-off waste containers will keep storm water runoff out.

6. *Imported Fill:* The proposed excavations will be backfilled using a combination of imported crusher run stone and select fill. If the imported fill is gravel, rock or stone, consisting of virgin material from a permitted mine or quarry, with less than 10% (by weight) passing through a size 100 sieve, the fill is anticipated to meet the NYSDEC's sampling exemption outlined in Section 5.4(e)(5.)(i.) of DER-10. If run-of-bank gravel and sand is to be used as backfill, the material will be sampled and analyzed as needed in accordance with the requirements outlined in Section 5.4(e) of DER-10 (e.g., with three discrete grab samples submitted for laboratory analysis for VOCs and one composite sample submitted for laboratory analysis for PCBs, pesticides, SVOCs [including 1,4-dioxane], inorganic constituents, and per- and polyfluoroalkyl substances for each material type and source, assuming between 100 and 200 CY of the fill is required). The constituent list will be consistent with that presented in Appendix 5 of DER-10 and Appendix G of the NYSDEC document titled "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs", dated April 2023 [NYSDEC PFAS Guidance]. The laboratory analytical results for the proposed backfill must meet the SCOs for commercial or industrial use as presented in DER-10 (Appendix 5) and the NYSDEC PFAS Guidance in order for the soil to be imported and used as backfill at the site. The NYSDEC's Request to Import/Reuse Fill or Soil form [latest version from NYSDEC's website: [Request To Reuse Soil \(ny.gov\)](https://www.nysdec.gov/Request-to-Reuse-Soil)] will be completed and submitted to the NYSDEC for approval before importing the proposed fill materials.
7. *Demarcation:* A demarcation layer will be installed to line the excavation bottom and sidewalls. The demarcation will designate the interface of the imported clean fill and surrounding soil that may have residual impacts. The demarcation layer will be placed in the excavation upon reaching the excavation limits. It will also provide a physical barrier to remaining soil for workers who may need to enter the excavation to install new duct banks or natural gas mains. To the extent possible, the work will be performed without manned entry into the excavation.
8. *Decontamination:* The contractor will be required to decontaminate equipment that contacts potentially-impacted soil. The equipment will be decontaminated by wiping and/or brushing off adhered soil/debris over the roll-off waste container or material staging area. The limited wash water anticipated to be generated by equipment decontamination will be absorbed by the soil or collected in a container for offsite disposal.

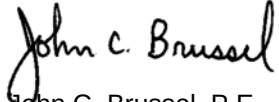
A full-time onsite representative will observe and document the soil management work and perform community air monitoring. A report will be prepared that summarizes the work and community air monitoring results. This report will be submitted to the NYSDEC within approximately one month following completion of the work activities.

We trust that the environmental requirements proposed above are acceptable to the NYSDEC. National Grid anticipates the ground intrusive portion of the work to begin as early as September 16, 2024 and be completed within approximately two to three weeks. Let us know if you would like to visit the site during construction, and we can arrange to meet you there.

Please do not hesitate to contact Garry Cummins (National Grid Site Investigation and Remediation Project Manager at 315.440.5825), Matt Root (National Grid Environment Compliance at 518.227.7508) or the undersigned at 315.671.9441 if you have any questions or need additional information.

Ms. Greta White, P.G.
September 5, 2024

Sincerely,
Arcadis of New York, Inc.



John C. Brussel, P.E.
Principal Engineer/Certified Project Manager

Email: John.Brussel@arcadis.com
Direct Line: 315.671.9441

CC:
Greg Crandell, National Grid
Matthew Root, National Grid
Gerald P. Cummins, National Grid
Andrew R. Blaszkow, Nelson Associates Architectural Engineering
Kyomin Lee, JLL
Matthew S. Hysell, P.E., Arcadis

Enclosures:

Figures

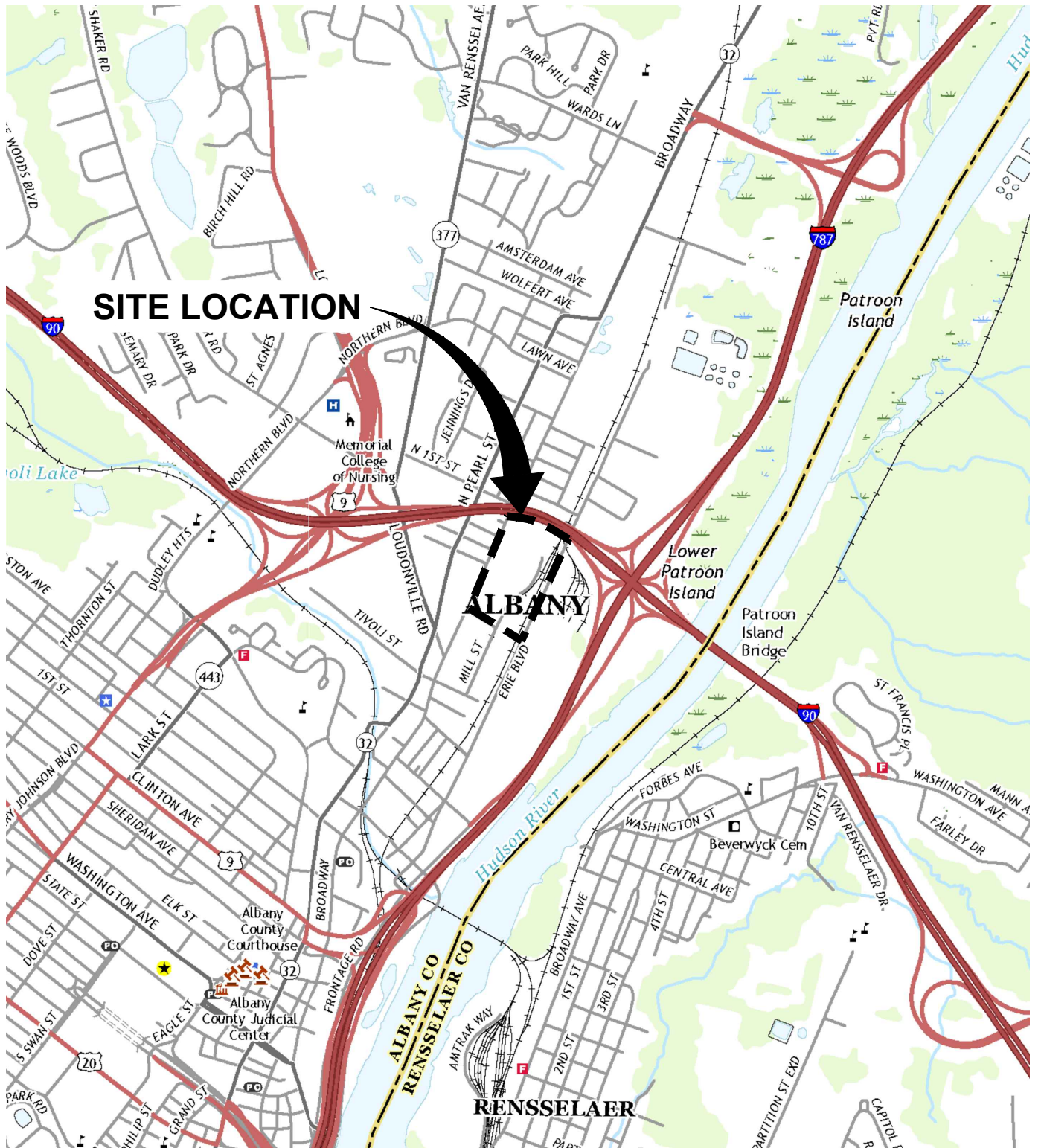
- 1 Site Location Map
- 2 Site Layout and Direct Current Fast Charger Station Construction Area

Attachments

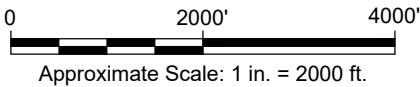
- 1 DC Fast Chargers Design Drawings
- 2 Analytical Results for Soil Near the Proposed DCFC Construction Area
- 3 Soil Boring Logs

Figures

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REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ALBANY & TROY SOUTH, NY, 2019.



NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK

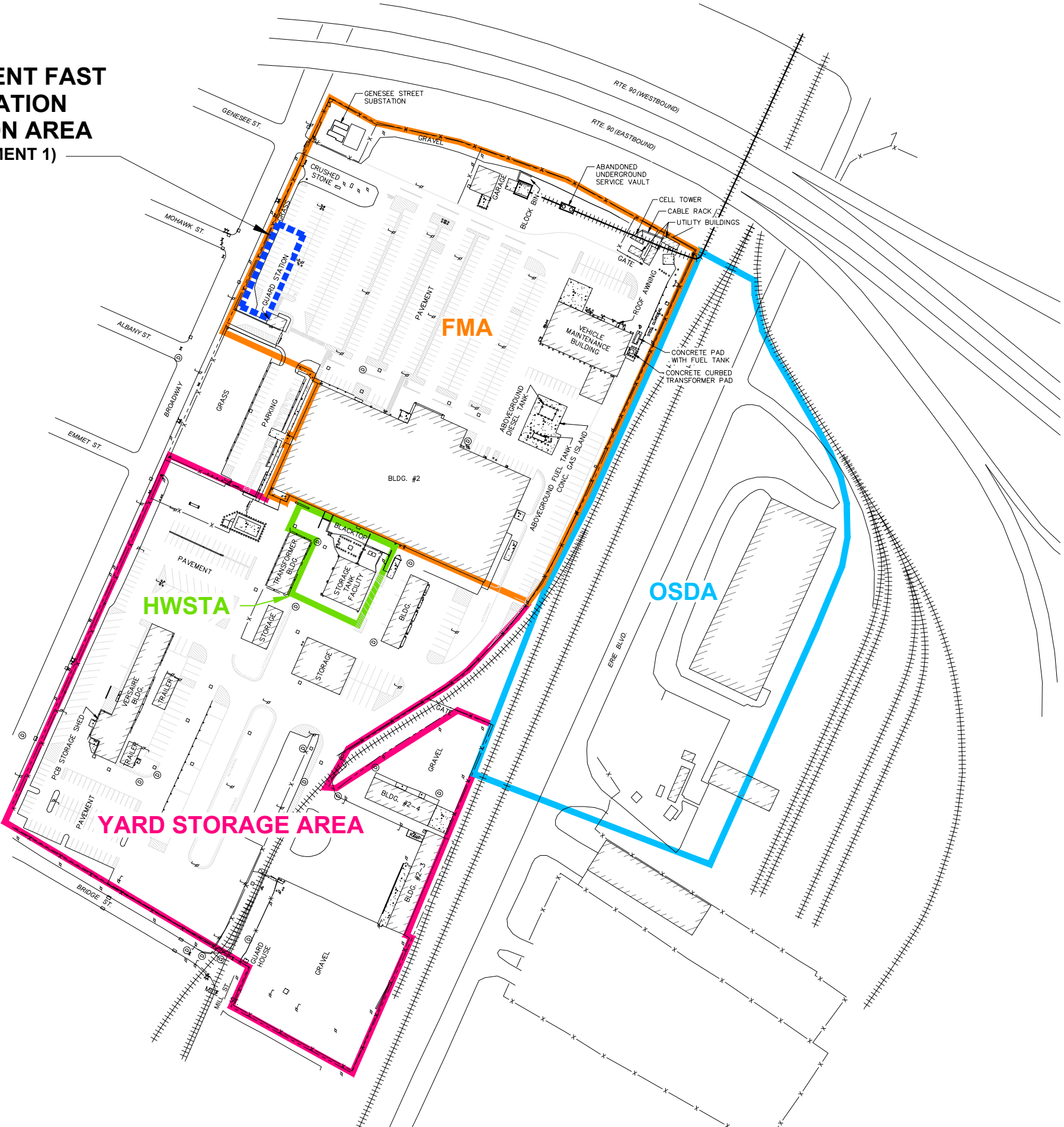
SITE LOCATION MAP



FIGURE

1

DIRECT CURRENT FAST
CHARGING STATION
CONSTRUCTION AREA
(REFER TO ATTACHMENT 1)

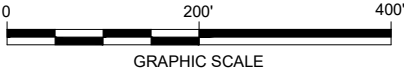


LEGEND:

- DIRECT CURRENT FAST CHARGING STATION CONSTRUCTION AREA
- FORMER MGP AREA
- OFF-SITE DOWNGRADIENT AREA
- HAZARDOUS WASTE STORAGE TANK AREA
- YARD STORAGE AREA
- APPROXIMATE PROPERTY LINE
- GUARD RAIL
- FENCE
- EXISTING RAILROAD
- APPROXIMATE LOCATION OF FORMER HIGH TEMPERATURE SUPERCONDUCTIVE CABLE

NOTES:

- BASE MAPPING WAS COMPILED FROM A SURVEY PERFORMED BY C.T. MALE ASSOCIATES ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C., OF ALBANY, NEW YORK, DATED SEPTEMBER 21, 2017.
- FMA = FORMER MANUFACTURED GAS (MGP) PLANT AREA.
- OSDA = OFF-SITE DOWNGRADIENT AREA.
- HWSTA = HAZARDOUS WASTE STORAGE TANK AREA.



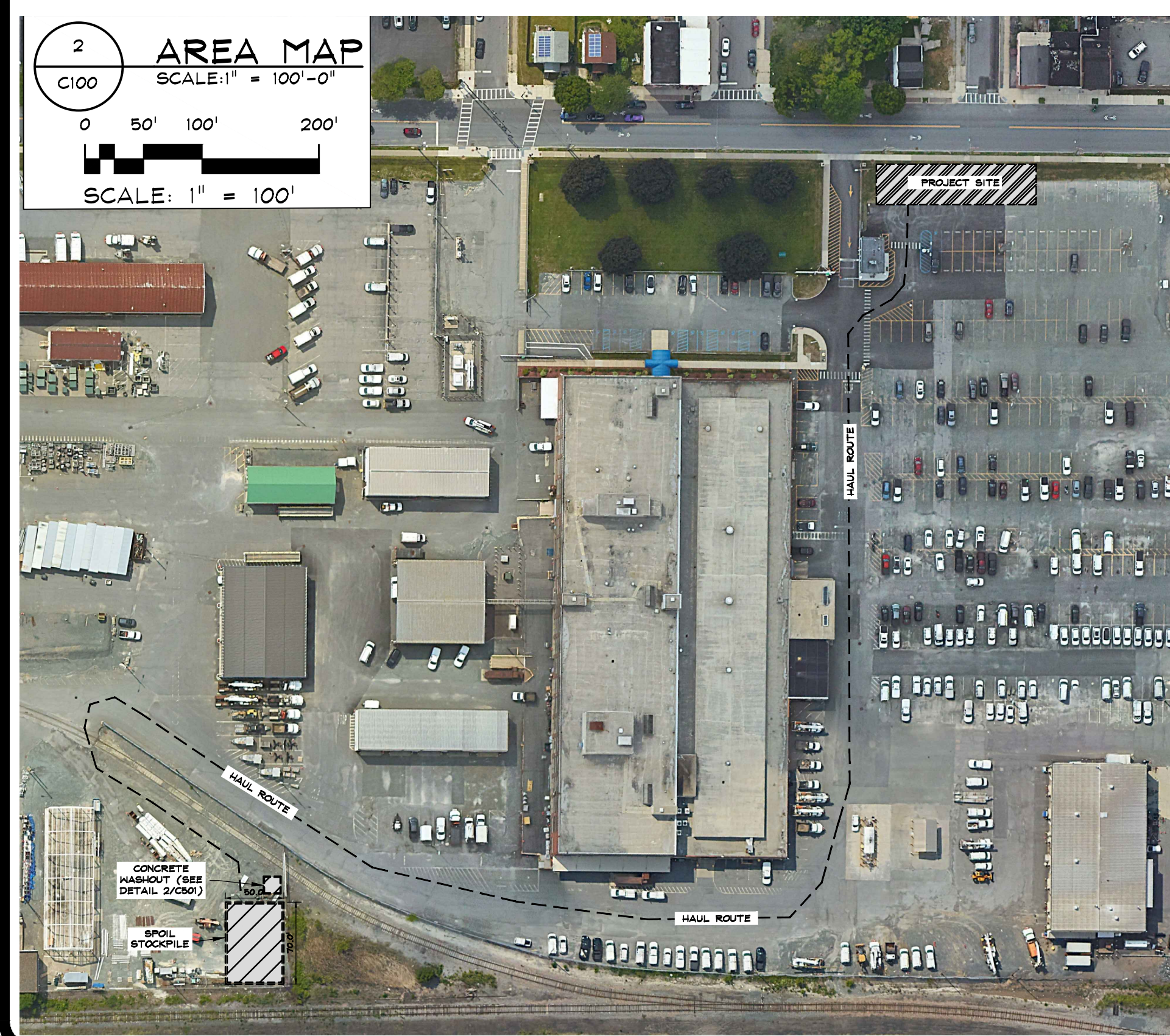
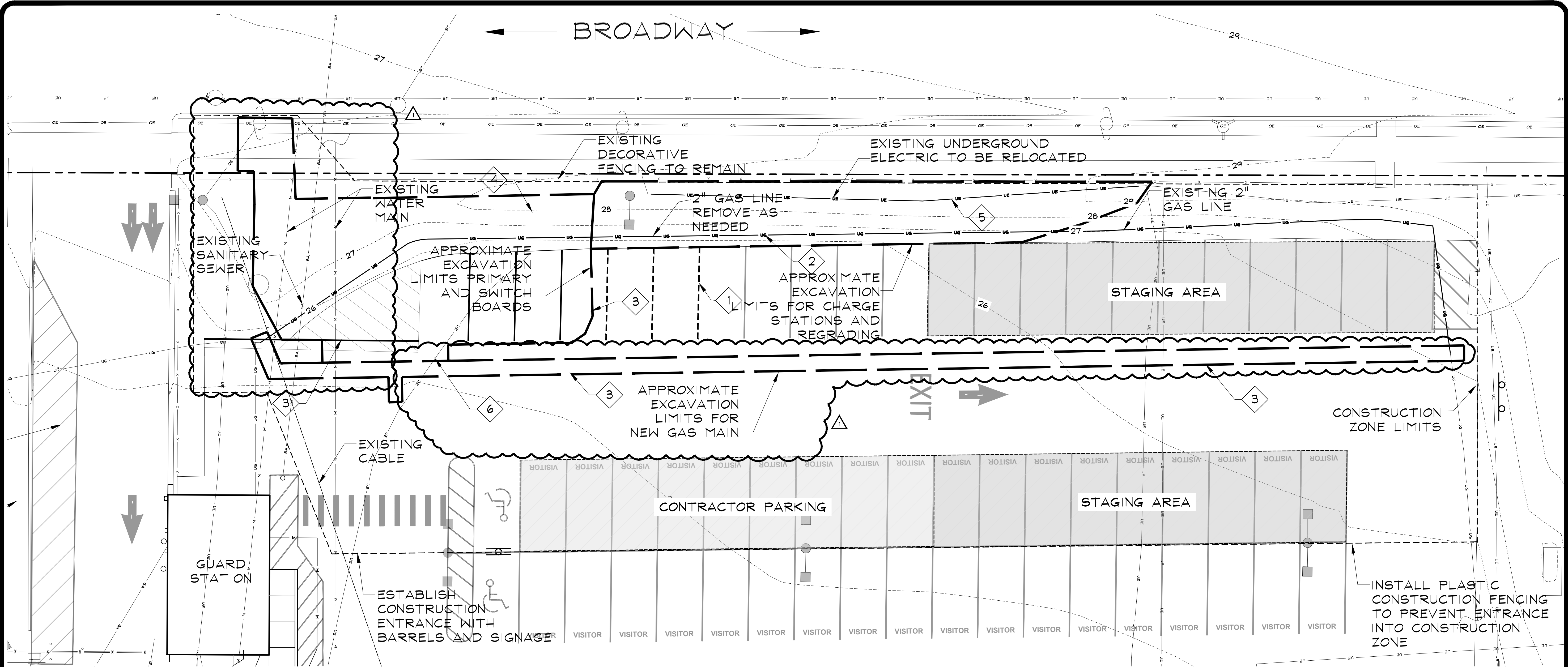
NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK

SITE LAYOUT AND DIRECT
CURRENT FAST CHARGING STATION
CONSTRUCTION AREA

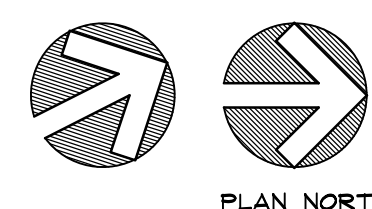


Attachment 1

DCFC Station Design Drawings



EXISTING
SITE PLAN
SCALE: 1" = 10'-0"



0 5' 10' 20'
SCALE: 1" = 10'

NOTE: Approximate Total Area of Disturbance = 3,620 sq.ft. (0.08 acres)

LEGEND

NEW	EXISTING	
—X—X—	—SA—	FENCE LINE
—SA—	—SA—	CONTOUR LINE
—ST—	—ST—	SANITARY SEWER
	—ST—	STORM LINE
—UE—	—UE—	UNDERGROUND CABLE
—H—	—H—	UNDERGROUND ELECTRIC
—UG—	—UG—	WATER
		UNDERGROUND GAS
		PARKING STRIPING
		PROPERTY LINE
		EXCAVATION LIMITS
		HAUL ROUTE
		DECIDUOUS TREE
		CONIFEROUS TREE
		AREA TO BE PAVED FULL DEPTH
		AREA TO RECEIVE 4" TOPSOIL AND GRASS SEED
		CONCRETE PAD

GENERAL NOTES

- DESIGNED IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE.
- DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
- THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PURPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR EQUIPMENT SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY ENGINEER.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BY MEANS OF GPR AS REQUIRED BY NATIONAL GRID BEFORE COMMENCING WORK. CONTRACTOR SHALL BEAR ALL COSTS OF THE GPR AND PROVIDE A REPORT TO THE OWNER PREPARED BY THE GPR SUBCONTRACTOR PRIOR TO DIGGING. GPR SHALL BE PERFORMED IN THE AREAS OF ANY EXCAVATIONS OR SAW CUTS. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AND FOR COMPLIANCE WITH ALL OSHA REGULATIONS DURING CONSTRUCTION.
- ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYS SDESC).
- ALL CONSTRUCTION WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST, AND DISTURBANCE.
- CONTRACTOR TO PROVIDE NECESSARY MEASURES TO PREVENT EROSION AND SEDIMENTATION CAUSED BY CONSTRUCTION IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYS SDESC) AND AS DIRECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR WILL TRANSFER ALL EXCAVATED SPOILS TO A LINED SPOIL STOCKPILE ON SITE AT LOCATION SPECIFIED BY NATIONAL GRID ENVIRONMENTAL.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS FROM THE LOCAL AUTHORITIES HAVING JURISDICTION.

DEMO NOTES

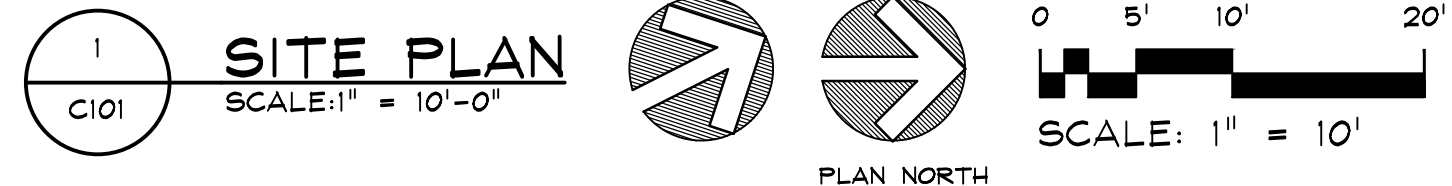
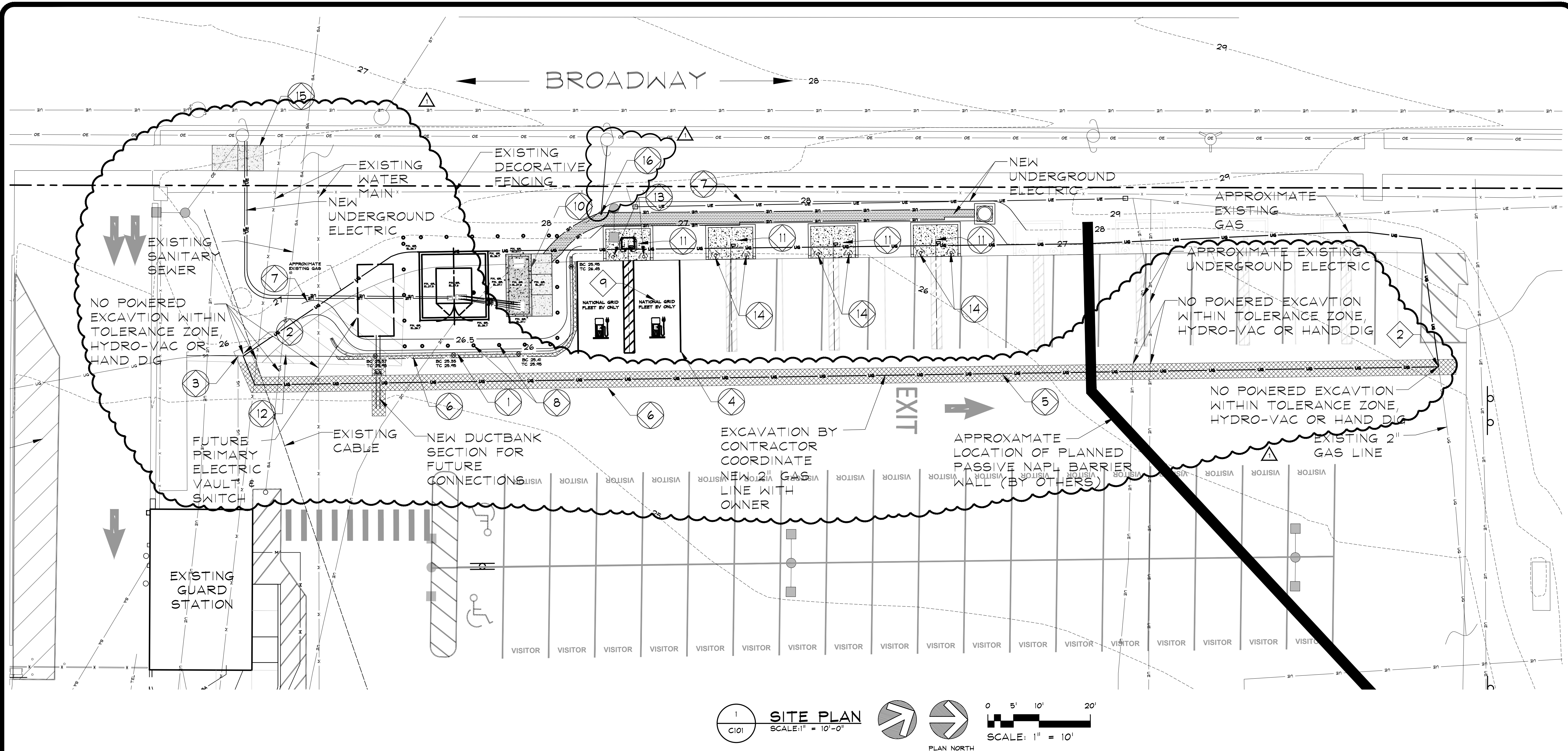
- REMOVE EXISTING PAVEMENT MARKING PAINTS WITH AS LITTLE DESTRUCTION TO EXISTING ASPHALT AS POSSIBLE. ADDITIONAL PAVEMENT MARKING REMOVAL IS INCLUDED UNDER ALTERNATE #1 FOR ADDITIONAL EV SPACES.
- REMOVE ABANDON GAS MAIN AFTER RELOCATION AND RECONNECTION HAS BEEN COMPLETE. COORDINATE W/ GAS UTILITY.
- SAW CUT, REMOVE AND RECYCLE ASPHALT WITHIN EXCAVATION AREA TO ALLOW FOR INSTALLATION OF NEW WORK. REFER TO C101 FOR NEW WORK.
- COORDINATE SOIL HANDLING/DISPOSAL WITH NATIONAL GRID ENVIRONMENTAL.
- REMOVE ABANDON ELECTRIC LINE AFTER REPLACEMENT AND RECONNECTION HAS BEEN COMPLETE.
- REMOVE ABANDON ELECTRIC LINE WITHIN BOUNDS OF EXCAVATION.

SEQUENCE OF CONSTRUCTION

- SCHEDULE A PRE-CONSTRUCTION MEETING WITH APPROPRIATE PERMITTING AUTHORITY, CONTRACTOR, AND CLIENT STAKEHOLDERS.
- DELINEATE RESOURCES TO PROTECT IN AND AROUND CONSTRUCTION AREA.
- ESTABLISH CONSTRUCTION ZONE LIMITS, STAGING AREA, CONSTRUCTION ENTRANCE, TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, SPOIL STOCKPILE, AND CONCRETE WASHOUT AREA. SEE DETAIL 2/CSP.
- COORDINATE WITH NATIONAL GRID GAS FOR RELOCATION OF GAS MAIN, EXCAVATED MATERIALS TO BE DEPOSITED IN SPOIL STOCKPILE BY CONTRACTOR.
-
- REMOVE EXISTING SANITARY SEWER AND WATER MAINS, TRANSFORMER, SWITCHBOARDS, CURBING, BOLLARDS, AND CHARGING PADS.
- SOIL RESTORATION AND FINAL MULCHING AND SEEDING FOR LANDSCAPING MEASURES, TREE PLANTINGS AND PAVEMENT RESTORATION.
- REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
- FINAL RESTORATION AND STABILIZATION OF ANY DISTURBED AREAS.
- COORDINATE WITH NATIONAL GRID FOR LOADING OF SPOIL MATERIALS FOR FINAL OFF SITE TRUCKING BY NATIONAL GRID.

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER, TO ALTER THIS DOCUMENT. IN ANY CASE, ALTERATIONS MUST HAVE THE SEAL, AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE OF THE UNDERSIGNED ARCHITECT/ENGINEER STATES THAT TO THE BEST OF THEIR KNOWLEDGE, INFORMATION, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2020 NEW YORK STATE FAMILY OF CODES, AND THE 2017 NATIONAL ELECTRICAL CODE. © 2024

REVISION	DATE	BY
1	03/19/2024	AES
DATE	03/01/24	
DRAWN BY	AES	
CHECKED BY	ARB	
APPROVED BY	PNN	
SCALE	AS NOTED	



LEGEND		KEYED NOTES	GENERAL NOTES	
NEW —X—X— —SA— —ST— —UE— —W— —UG—	EXISTING —SA— —SA— —ST— ----- —UE— —W— —UG— — — — — — AREA TO BE PAVED FULL DEPTH AREA TO RECEIVE 4" TOPSOIL AND GRASS SEED CONCRETE PAD	FENCE LINE CONTOUR LINE SANITARY SEWER STORM LINE UNDERGROUND CABLE UNDERGROUND ELECTRIC WATER UNDERGROUND GAS PARKING STRIPING PROPERTY LINE DECIDUOUS TREE CONIFEROUS TREE	1. PROVIDE NEW CONCRETE CURBING AS SHOWN. SLOPE CURB BACK TO GRADE AT TERMINATING ENDS. SLOPE 2% MAXIMUM. REFER TO DETAIL 1/C500. 2. CONTRACTOR TO PERFORM TRENCH EXCAVATION, SPOIL STOCKPILING, FURNISH AND INSTALL BACKFILL, DETECTABLE WARNING TAPE, AND PROVIDE COMPACTION. COORDINATE WORK WITH NATIONAL GRID GAS OPERATIONS, CARL VANDERVOELGE 518-941-6461. OWNER TO INSTALL NEW 2" GAS IN TRENCH IN CONJUNCTION WITH CONTRACTOR EXCAVATION. REFER TO TRENCH DETAIL 3/C501. CONNECTIONS TO EXISTING GAS, BY UTILITY. 3. EXISTING 3" GAS SERVICE. 4. TYPICAL EV PAVEMENT MARKING. PROVIDE PAVEMENT MARKINGS AS SHOWN, COLOR SHALL BE GREEN UNLESS OTHERWISE NOTED, REFER TO DETAIL 6/C500. 5. APPROXIMATE AREA OF ASPHALT PAVING TO BE INSTALLED AFTER COMPLETION OF BELOW GRADE WORK, REFER TO DETAIL 3/C500. 6. SAW CUT AND PATCH ASPHALT AS REQUIRED TO INSTALL NEW WORK, REFER TO DETAIL 3/C500. 7. GRADE AREA TO NEW CONTOURS DEPICTED. 8. PROVIDE AND INSTALL NG EQUIPMENT BOLLARDS. REFER TO DETAIL 6/C500. 9. PROVIDE EV CHARGING LOGO IN GREEN AND WHITE, REFER TO DETAIL 8/C500. 10. INSTALL 10" THICK CONCRETE SWITCHBOARD BASE AFTER ELECTRICAL CONDUIT HAS BEEN INSTALLED. COORDINATE BLOCK-OUT LOCATIONS AND DIMENSIONS WITH ELECTRICIAN, REFER TO DETAIL 3/E501. PROVIDE 4" THICK REINFORCED SIDEWALK SLAB, REFER TO DETAIL 4/C500. 11. INSTALL EV CHARGE STATION SUPPORT PAD AFTER ELECTRICAL CONDUIT HAS BEEN INSTALLED, SEE DETAIL 1/C501. 12. NEW ESTABLISHED EDGE OF PAVEMENT. 13. PROVIDE AND INSTALL NEW BOLLARDS, SIGN AND BOLLARD COVERS. REFER TO DETAIL 5/C500 & 7/C500. 14. PROVIDE AND INSTALL NEW BOLLARDS AND BOLLARD COVERS, REFER TO DETAIL 5/C500. (OMIT SIGN FOR BASE BID)(ADD SIGN 7/C500 FOR ALTERNATE #1) 15. REPLACE 4" SIDEWALK REMOVED FOR INSTALLATION OF NEW ELECTRIC. MATCH WIDTH AND FINISH. REFER TO DETAIL 4/C500. 16. COORDINATE WITH UTILITY RELOCATION OF EXISTING GUY-WIRE.	1. DESIGNED IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE. 2. DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD BY CONTRACTOR. 3. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS. 4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED. 5. THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED. 6. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PURPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR EQUIPMENT SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY ENGINEER. 7. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BY MEANS OF GPR AS REQUIRED BY NATIONAL GRID BEFORE COMMENCING WORK. CONTRACTOR SHALL BEAR ALL COSTS OF THE GPR AND PROVIDE A REPORT TO THE OWNER PREPARED BY THE GPR SUBCONTRACTOR PRIOR TO DIGGING. GPR SHALL BE PERFORMED IN THE AREAS OF ANY EXCAVATIONS OR SAW CUTS. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES. 8. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AND FOR COMPLIANCE WITH ALL OSHA REGULATIONS DURING CONSTRUCTION. 9. ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NTS S5ESC). 10. ALL CONSTRUCTION WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST, AND DISTURBANCE. 11. CONTRACTOR TO PROVIDE NECESSARY MEASURES TO PREVENT EROSION AND SEDIMENTATION CAUSED BY CONSTRUCTION IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NTS S5ESC) AND AS DIRECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. 12. CONTRACTOR WILL TRANSFER ALL EXCAVATED SPOILS TO A LINED SPOIL STOCKPILE ON SITE AT LOCATION SPECIFIED BY NATIONAL GRID ENVIRONMENTAL. 13. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS FROM THE LOCAL AUTHORITIES HAVING JURISDICTION.

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CERTIFICATE OF
AUTHORIZATION No. 0021429

NATIONAL GRID

N. ALBANY SERVICE CENTER
DC FAST CHARGERS

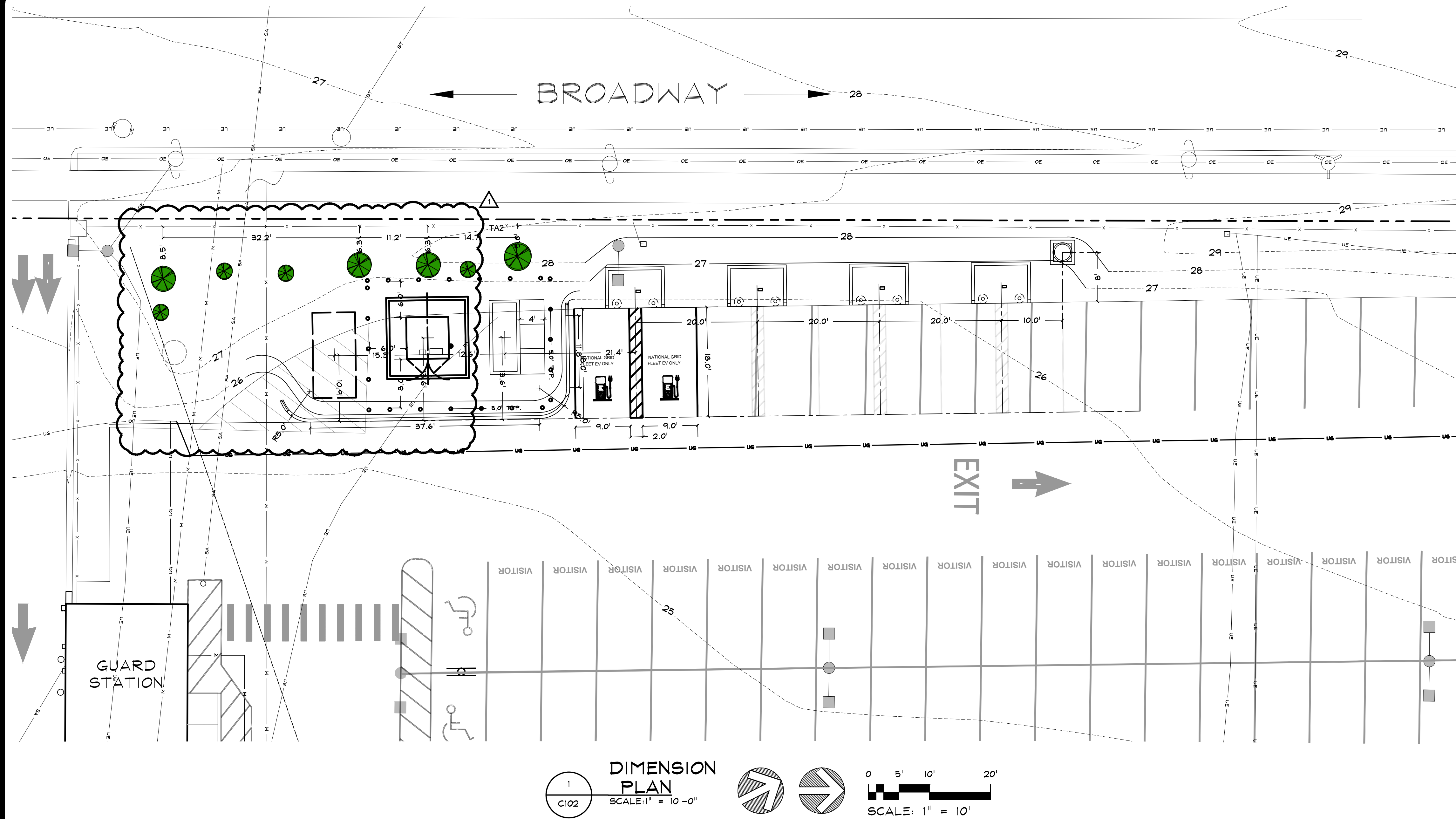
1125 BROADWAY
MENANDS, NEW YORK 13204

PROJECT NO. 23-2280

ADDENDUM NO. 1	03/19/2024	AES
REVISION	DATE	BY
DATE	03/01/24	
DRAWN BY	AES	
CHECKED BY	ARB	
APPROVED BY	PNN	
SCALE	AS NOTED	

SHEET TITLE
SITE PLAN

SHEET NO.
C101



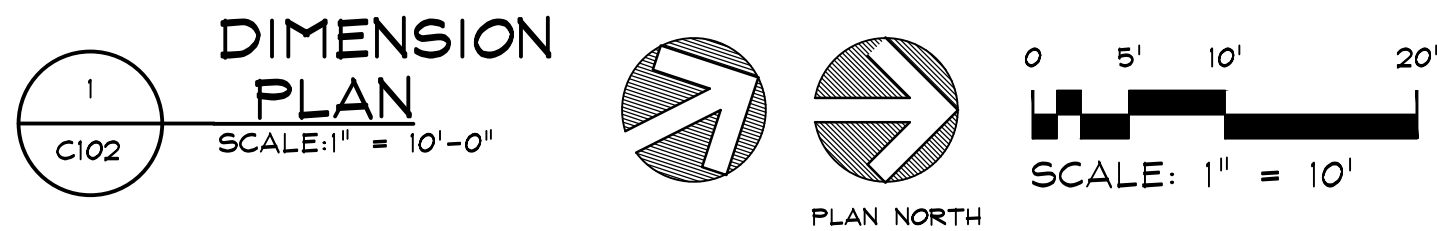
LEGEND

NEW	EXISTING	
—X—X—	—SA—	FENCE LINE
—BA—	—SA—	CONTOUR LINE
—BT—	—BT—	SANITARY SEWER
	—BT—	STORM LINE
	—UE—	UNDERGROUND CABLE
—W—	—W—	UNDERGROUND ELECTRIC
—UG—	—UG—	WATER
	—UG—	UNDERGROUND GAS
	—	PARKING STRIPING
	—	PROPERTY LINE
		DECIDUOUS TREE
		CONIFEROUS TREE
		AREA TO BE PAVED FULL DEPTH
		AREA TO RECEIVE 4" TOPSOIL AND GRASS SEED
		CONCRETE PAD

GENERAL NOTES

- DESIGNED IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE.
- DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS AND THE STRUCTURAL DRAWINGS.
- DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
- THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PURPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR EQUIPMENT SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY ENGINEER.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BY MEANS OF GPR AS REQUIRED BY NATIONAL GRID BEFORE COMMENCING WORK. CONTRACTOR SHALL BEAR ALL COSTS OF THE GPR AND PROVIDE A REPORT TO THE OWNER PREPARED BY THE GPR SUBCONTRACTOR PRIOR TO DIGGING. GPR SHALL BE PERFORMED IN THE AREAS OF ANY EXCAVATIONS OR SAW CUTS. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AND FOR COMPLIANCE WITH ALL OSHA REGULATIONS DURING CONSTRUCTION.
- ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYS S9ESC).
- ALL CONSTRUCTION WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST, AND DISTURBANCE.
- CONTRACTOR TO PROVIDE NECESSARY MEASURES TO PREVENT EROSION AND SEDIMENTATION CAUSED BY CONSTRUCTION IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYS S9ESC) AND AS DIRECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR WILL TRANSFER ALL EXCAVATED SPOILS TO A LINED SPOIL STOCKPILE ON SITE AT LOCATION SPECIFIED BY NATIONAL GRID ENVIRONMENTAL.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS FROM THE LOCAL AUTHORITIES HAVING JURISDICTION.

KEYED NOTES



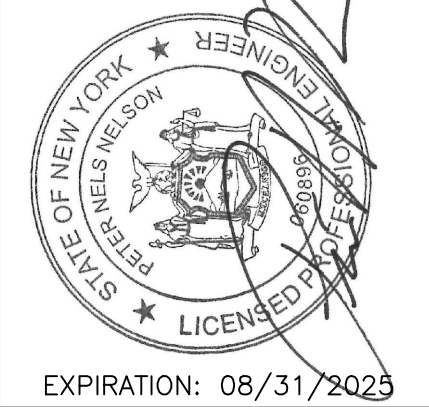
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CERTIFICATE OF AUTHORIZATION No. 0021429



NATIONAL GRID
N. ALBANY SERVICE CENTER
DC FAST CHARGERS
1125 BROADWAY
MENANDS, NEW YORK 13204

PROJECT TITLE

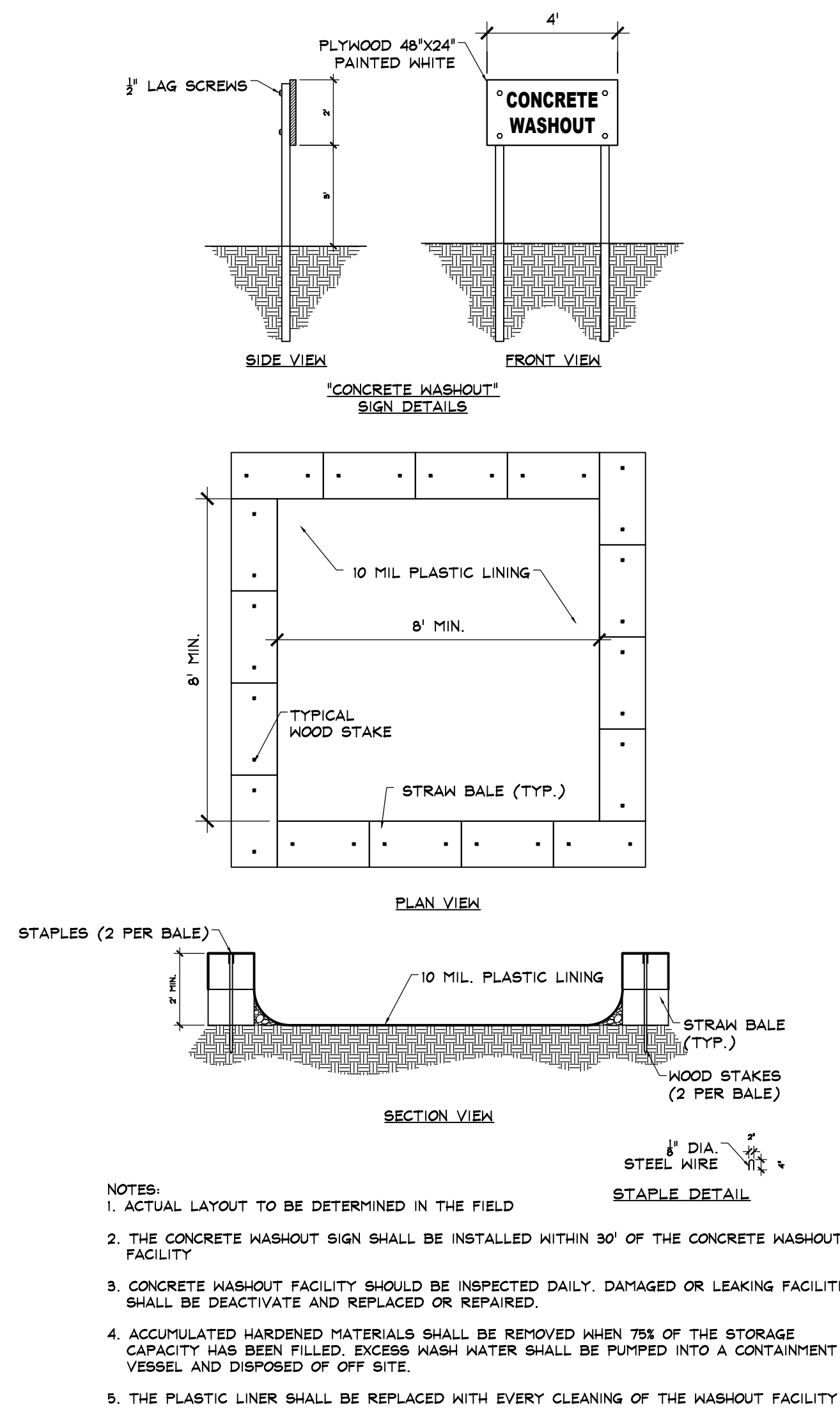
PROJECT NO. 23-2280

1	ADDENDUM NO. 1	03/19/2024 AES
REVISION	DATE	BY
DATE	03/01/24	
DRAWN BY	AES	
CHECKED BY	ARB	
APPROVED BY	PNN	
SCALE	AS NOTED	

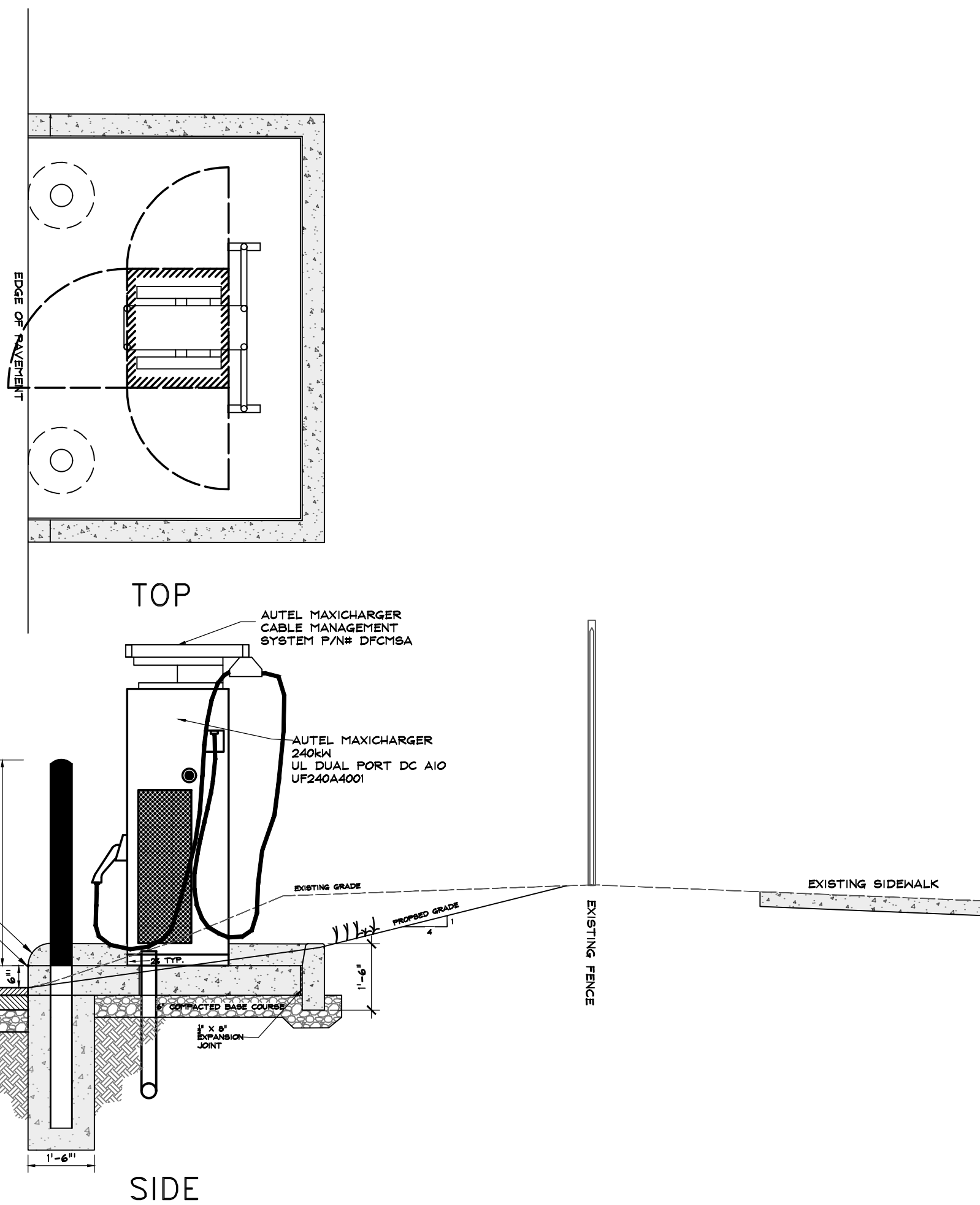
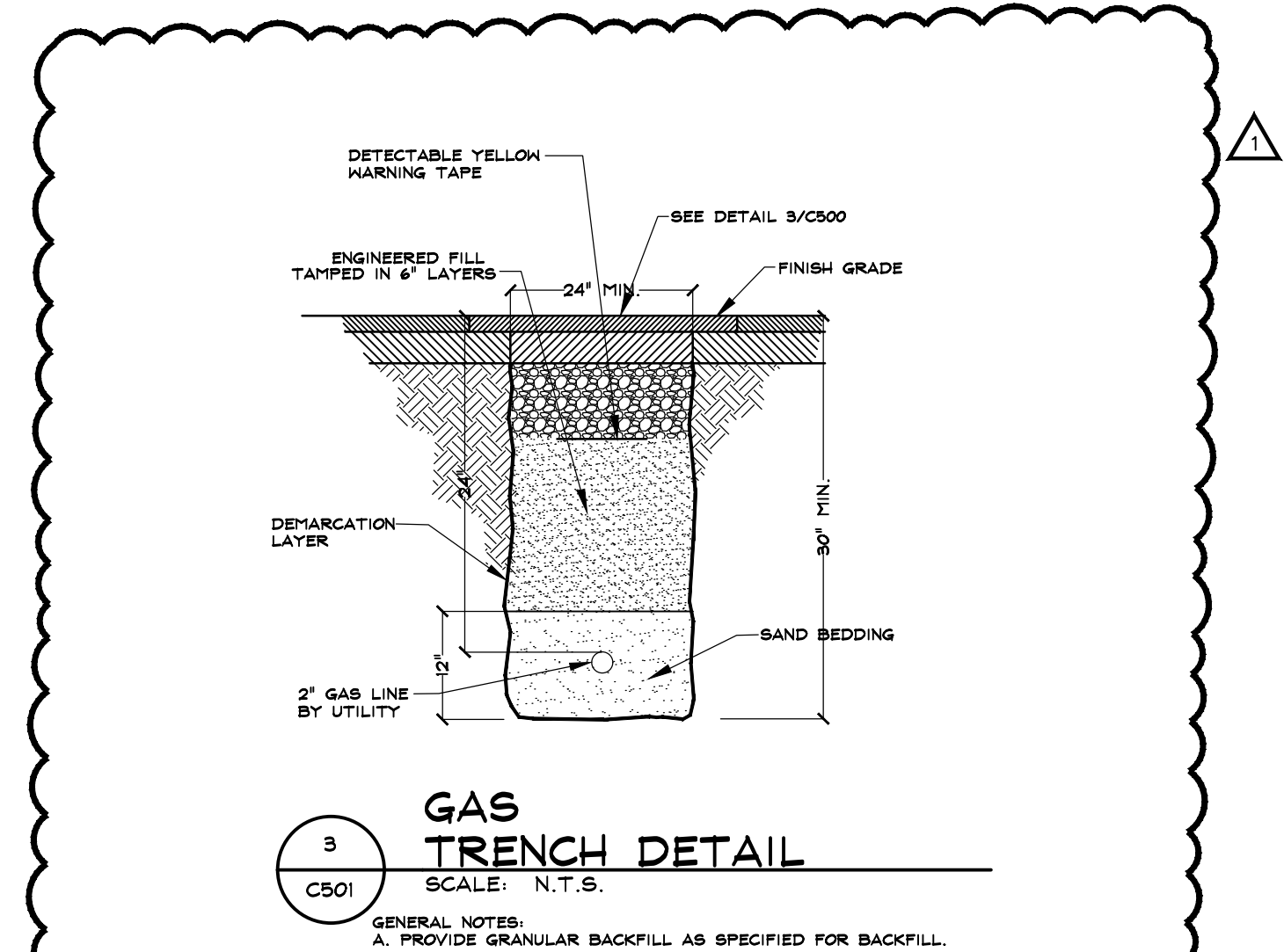
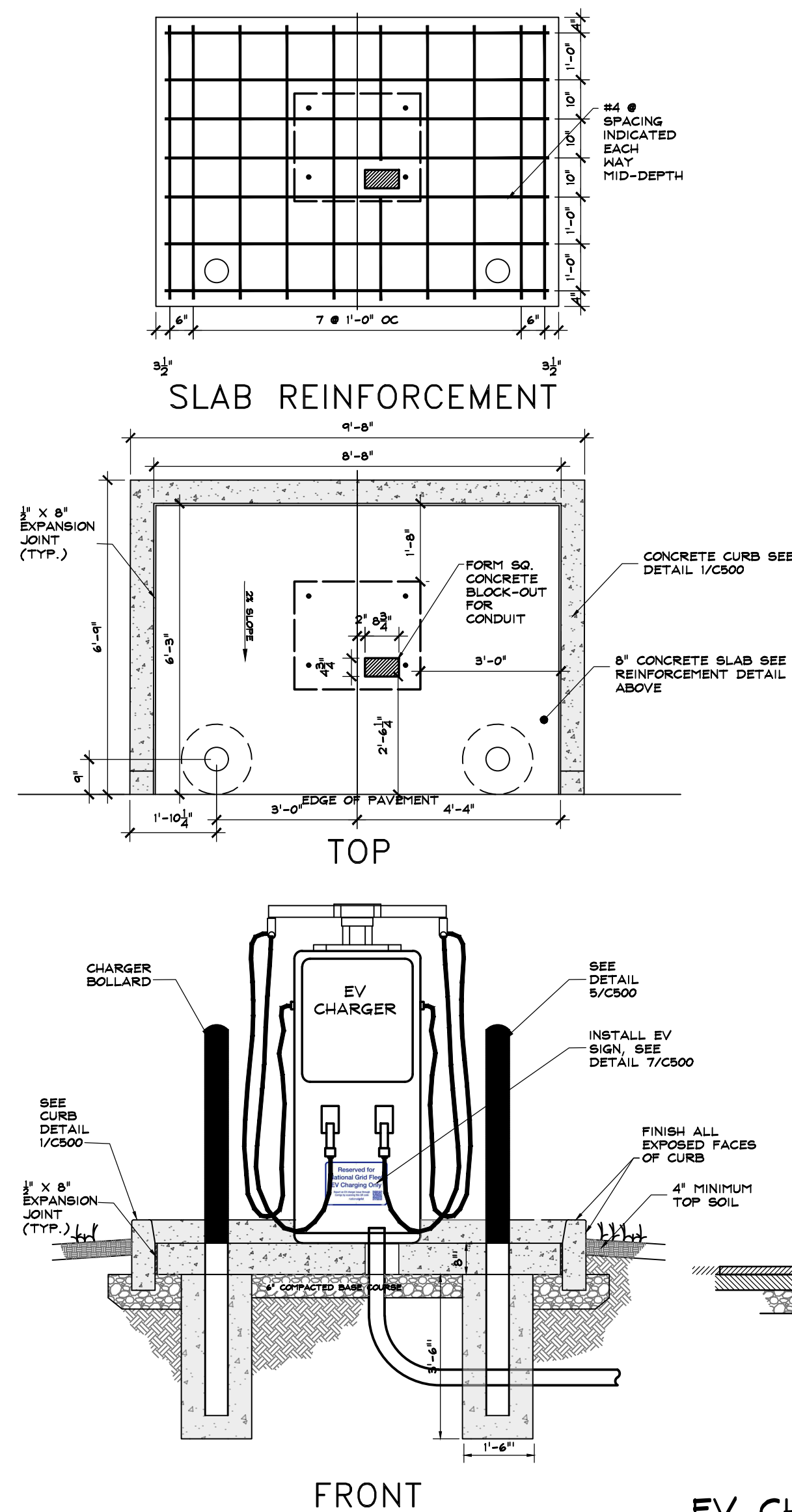
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DIMENSION PLAN

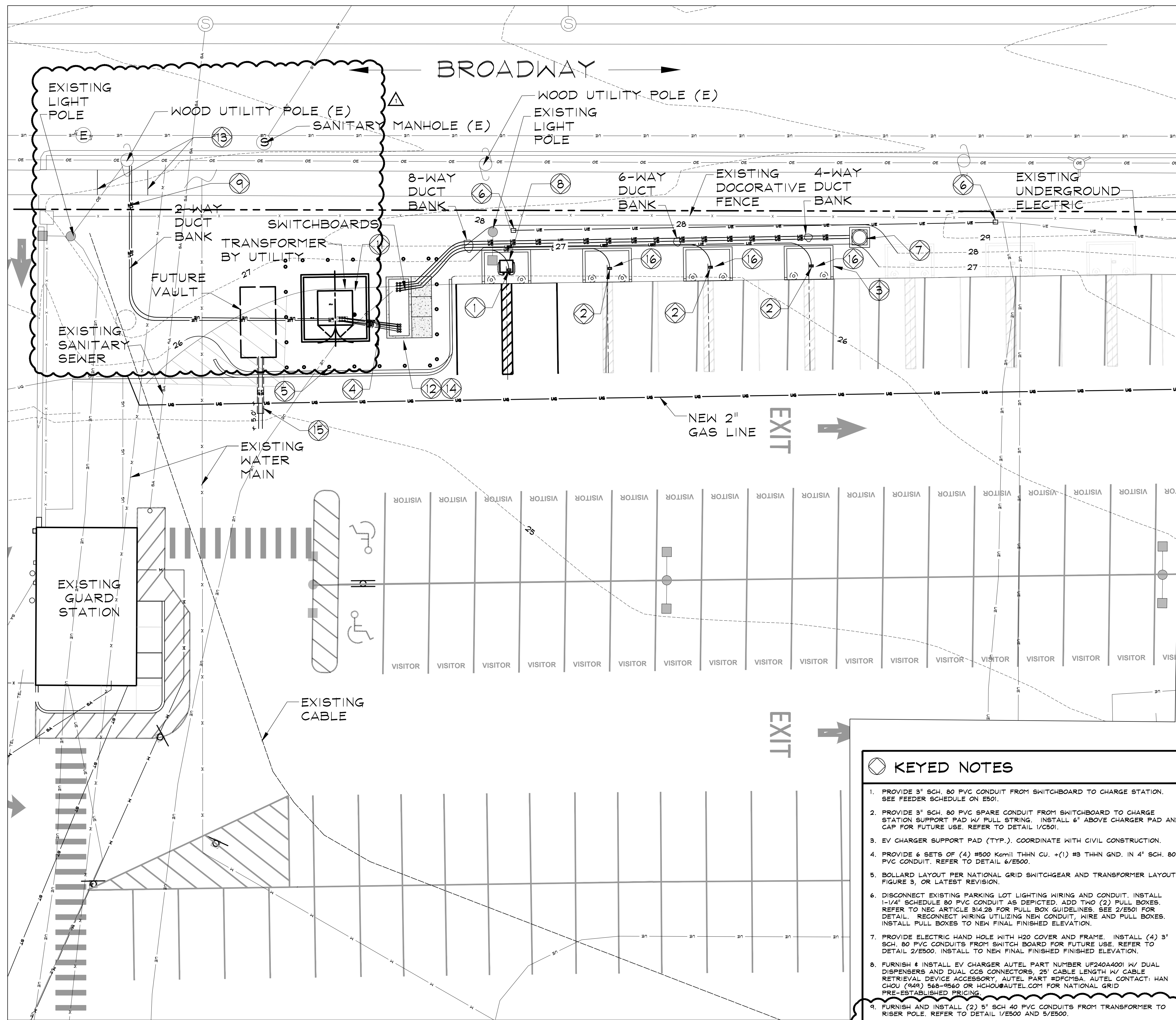
SHEET NO.

C102



2 CONCRETE WASHOUT
SCALE: NTS





1

E100

EXISTING
SITE PLAN
SCALE: 1" = 10'-0"

PLAN NORTH

0 5' 10' 20'
SCALE: 1" = 10'

LEGEND

NEW	EXISTING	
		DECIDUOUS TREE
		CONIFEROUS TREE
		POST & SIGN
		WATER METER
		WATER VALVE
		HYDRANT
		POST INDICATOR VALVE
		UTILITY POLE
		LIGHT POLE(S)
		CATCH BASIN
		DRAINAGE (STORMWATER) MANHOLE
		SANITARY MANHOLE
		ELECTRIC MANHOLE
		EXISTING
		FENCE LINE
		CONTOUR LINE
		SANITARY SEWER
		STORM LINE
		UNDERGROUND CABLE
		UNDERGROUND ELECTRIC
		WATER
		UNDERGROUND GAS
		PARKING STRIPING
		PROPERTY LINE

GENERAL NOTES

- THIS DRAWING IS INTENDED TO BE A SCHEMATIC REPRESENTATION OF THE GENERAL ELECTRICAL SYSTEMS DESIGN INTENT AND DOES NOT SHOW ALL POWER WIRING, STARTER MOTORS, RELAYS, TRANSFORMERS, AND LOW VOLTAGE CONTROL WIRING NECESSARY FOR CONSTRUCTION. THE CONTRACTOR HAS BEEN QUALIFIED UNDER THE SPECIFICATIONS AND IS EXPECTED TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS FOR ALL EQUIPMENT AND ELECTRICAL INSTALLATIONS REQUIRED BY THIS CONTRACT. COORDINATE ALL INSTALLATION REQUIREMENTS WITH THE EQUIPMENT MANUFACTURERS. FOLLOW ALL APPLICABLE CODES, RULES, AND REGULATIONS, AND PROVIDE ALL NECESSARY ELECTRICAL PARTS AND COMPONENTS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM INSTALLATION UNDER THE CONTRACT PRICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING CONDUIT PATHS AND SIZES IN SHOP DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE SUBMITTING BID.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, BUILDING CODES AND CURRENT OSHA REQUIREMENTS.
- IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, EQUIPMENT, MATERIAL, ECT. REQUIRED, EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THEY SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.
- BRANCH CIRCUITS FOR POWER AND LIGHTING SHALL NOT BE LESS THAN #12 AWG. WIRES AREA TO BE SIZED FOR THE APPROPRIATE VOLTAGE DROPS.
- PROVIDE ALL ELECTRICAL SYSTEM GROUNDING AS SHOWN ON DRAWINGS AND IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE LOCAL CODES.
- THE DESIGN IS BASED ON INITIAL DESIGN DATA. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL FEEDERS, FUSES AND C.B. TO MATCH THE NAME - PLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS SHALL BE ENTERTAINED.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF WORK. REPORT ANY DISCREPANCIES OR DISCOVERIES TO THE ARCHITECT IMMEDIATELY.
- PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY IN EACH EXISTING PANELBOARD MODIFIED FOR THIS PROJECT CLEARLY IDENTIFIED.

KEYED NOTES

- PROVIDE 3" SCH. 80 PVC CONDUIT FROM SWITCHBOARD TO CHARGE STATION. SEE FEEDER SCHEDULE ON E501.
- PROVIDE 3" SCH. 80 PVC SPARE CONDUIT FROM SWITCHBOARD TO CHARGE STATION SUPPORT PAD W/ PULL STRING. INSTALL 6" ABOVE CHARGER PAD AND CAP FOR FUTURE USE. REFER TO DETAIL 1/CB01.
- EV CHARGER SUPPORT PAD (TYP.). COORDINATE WITH CIVIL CONSTRUCTION.
- PROVIDE 6 SETS OF (4) #500 Kermil THHN CU. + (1) #3 THHN GND. IN 4" SCH. 80 PVC CONDUIT. REFER TO DETAIL 6/E500.
- BOLLARD LAYOUT PER NATIONAL GRID SWITCHGEAR AND TRANSFORMER LAYOUTS FIGURE 3, OR LATEST REVISION.
- DISCONNECT EXISTING PARKING LOT LIGHTING WIRING AND CONDUIT. INSTALL 1-1/4" SCHEDULE 80 PVC CONDUIT AS DEPICTED. ADD TWO (2) PULL BOXES. REFER TO NEC ARTICLE 314.28 FOR PULL BOX GUIDELINES. SEE 2/E501 FOR DETAIL. RECONNECT WIRING UTILIZING NEW CONDUIT, WIRE AND PULL BOXES. INSTALL PULL BOXES TO NEW FINAL FINISHED ELEVATION.
- PROVIDE ELECTRIC HAND HOLE WITH H20 COVER AND FRAME. INSTALL (4) 3" SCH. 80 PVC CONDUITS FROM SWITCH BOARD FOR FUTURE USE. REFER TO DETAIL 2/E500. INSTALL TO NEW FINAL FINISHED ELEVATION.
- FURNISH & INSTALL EV CHARGER AUTEL PART NUMBER UP240A4001 W/ DUAL DISPENSERS AND DUAL CCS CONNECTORS, 25' CABLE LENGTH W/ CABLE RETRIEVAL DEVICE ACCESSORY, AUTEL PART #DFCMA. AUTEL CONTACT: HAN GHOU (949) 568-7560 OR HGHOU@AUTEL.COM FOR NATIONAL GRID PRE-ESTABLISHED PRICING.
- FURNISH AND INSTALL (2) 3" SCH 40 PVC CONDUITS FROM TRANSFORMER TO RISER POLE. REFER TO DETAIL 1/E500 AND 5/E500.
- INSTALL TRANSFORMER PAD, REINFORCEMENT, GROUNDING, OIL CONTAINMENT, TRANSFORMER MECHANICAL PROTECTION, STEEL RISER INCLUDING 90 DEGREE SWEEP AND BONDING CLAMP WITH TAP. CONNECT SECONDARY CONNECTIONS FOR THE TRANSFORMER AND SELF CONTAINED METER BOX WHERE REQUIRED BY THE NATIONAL GRID, REFER TO DETAIL 3/E500 AND 4/E500.

KEYED NOTES

- FURNISH & INSTALL SWITCH BOARDS, WIRING AND CONNECTIONS, REFER TO DETAIL 3/E501.
- CUT SIDEWALK AT CONTROL JOINT TO REMOVE SIDEWALK SLAB NECESSARY TO INSTALL NEW WORK.
- ELECTRIC CONTRACTOR TO PERFORM AN ARC FLASH COORDINATION STUDY PER NFPA 70E AND 20E. SUBMIT RESULTS FOR REVIEW. PROVIDE OSHA REQUIRED LABELING ON ELECTRICAL EQUIPMENT INCLUDED IN THE STUDY.
- PROVIDE (2) 4" SCH 80 PVC CONDUITS ENCASED IN CONCRETE FOR FUTURE PRIMARY. LEAVE THE LAST 3FT. IN SAND BEDDING FOR FUTURE CONNECTIONS AND CAP ENDS OF THE CONDUIT, SEE DETAIL 7/E500.
- ALTERNATE #1: FURNISH & INSTALL (3)-ADDITIONAL EV CHARGER AUTEL PART NUMBER UP240A4001 W/ DUAL DISPENSERS AND DUAL CCS CONNECTORS, 25' CABLE LENGTH W/ MAXI-CHARGER CABLE MANAGEMENT SYSTEM, AUTEL PART #DFCMA.

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CERTIFICATE OF
AUTHORIZATION No. 0021429

EXPIRATION: 08/31/2025

NATIONAL GRID

N. ALBANY SERVICE CENTER
DC FAST CHARGERS

1125 BROADWAY
MENANDS, NEW YORK 13204

PROJECT TITLE

PROJECT NO. 23-2280

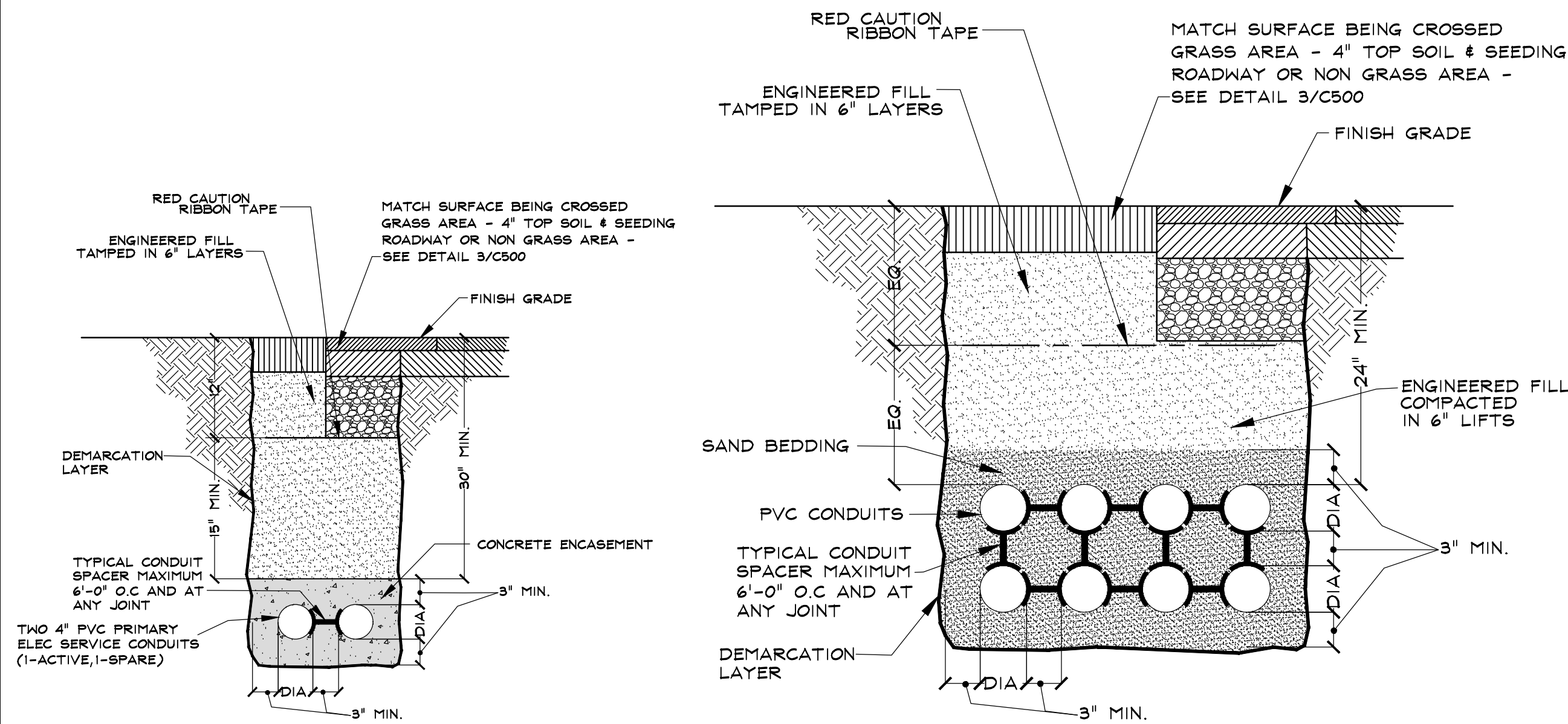
ADDENDUM NO. 1	03/19/2024	AES
REVISION	DATE	BY
DATE	03/01/24	
DRAWN BY	AES	
CHECKED BY	ARB	
APPROVED BY	PNN	
SCALE	AS NOTED	

SHEET TITLE

ELECTRICAL
SITE PLAN

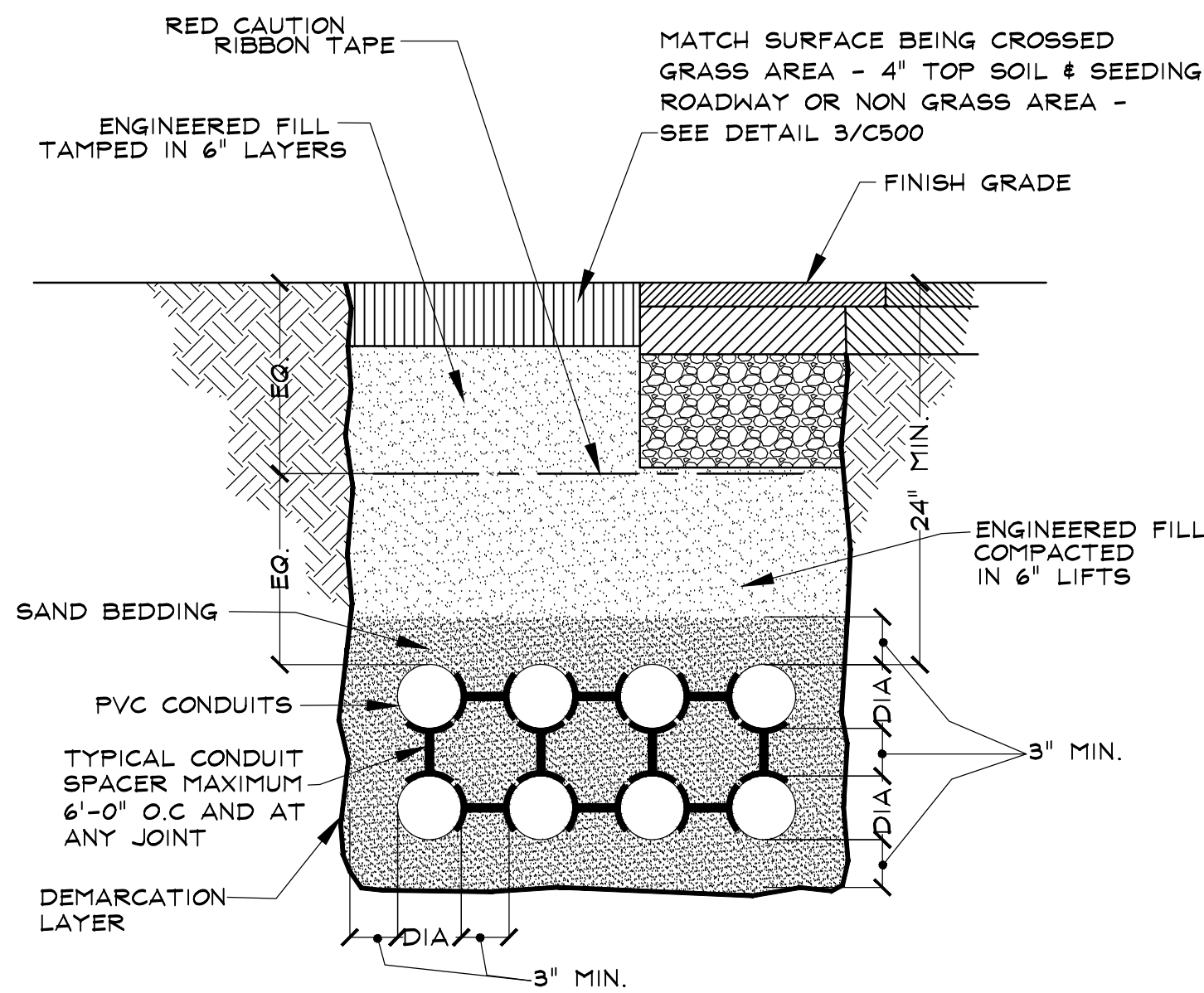
SHEET NO.

E101



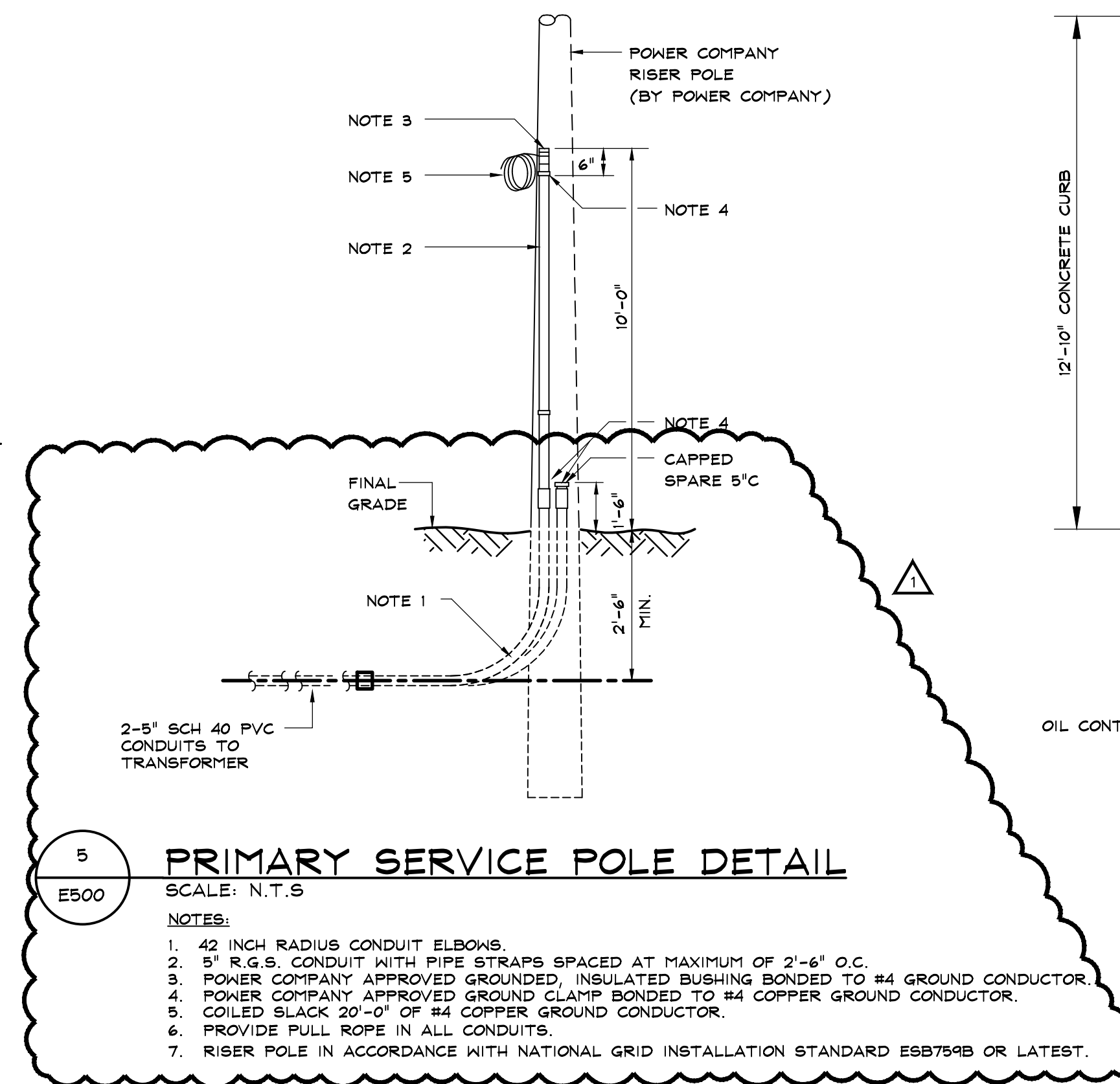
7
E500
FUTURE PRIMARY CONDUIT DETAIL
SCALE: N.T.S.

GENERAL NOTES:
A. PROVIDE GRANULAR BACKFILL AS SPECIFIED FOR BACKFILL.



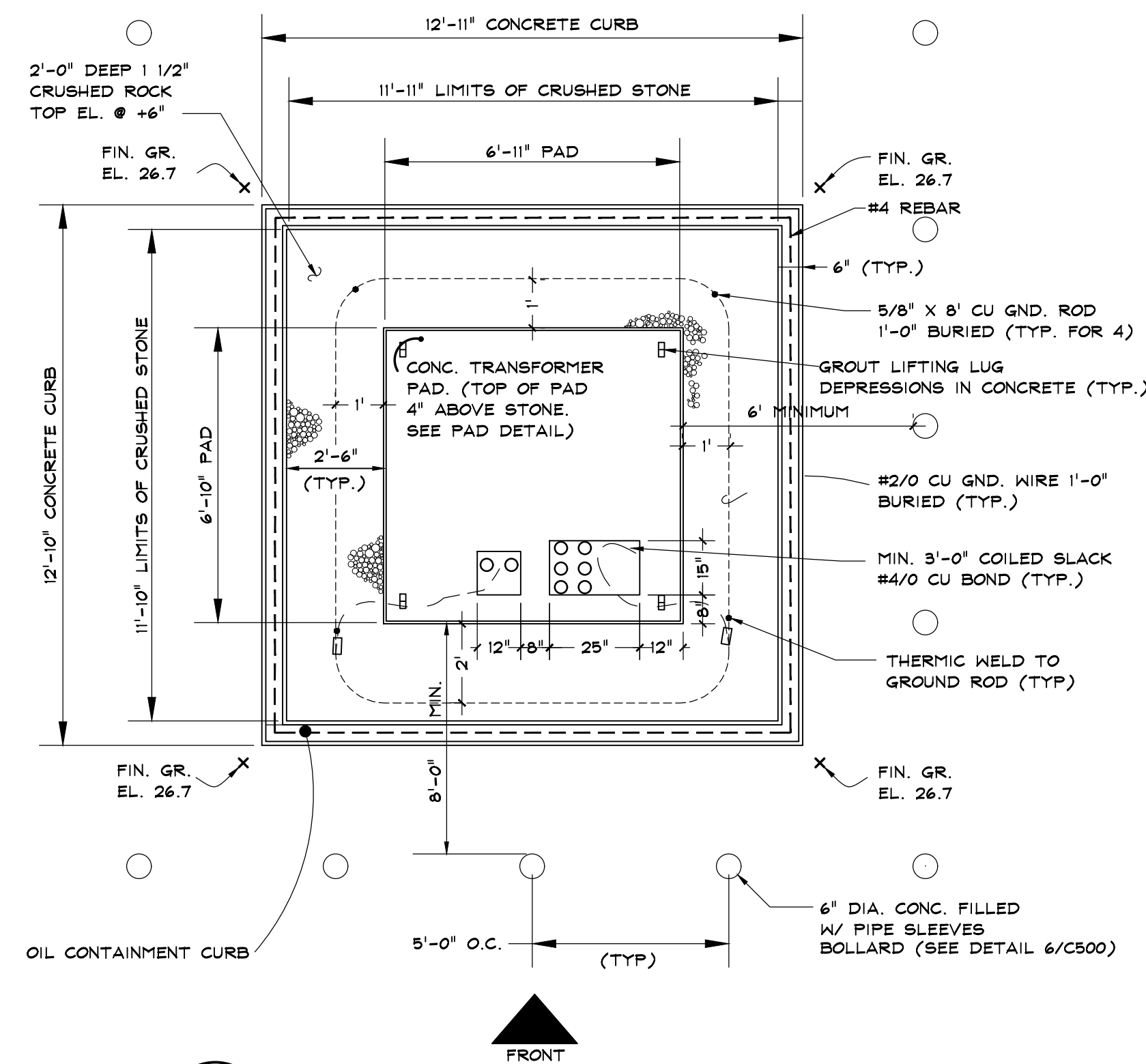
6
E500
MULTIWAY DUCT BANK DETAIL
SCALE: N.T.S.

GENERAL NOTES:
A. REFER TO ONE-LINE DIAGRAM FOR ACTUAL QUANTITY AND SIZE OF CONDUITS REQUIRED.



5
E500
PRIMARY SERVICE POLE DETAIL
SCALE: N.T.S.

NOTES:
1. 42 INCH RADIUS CONDUIT ELBOWS.
2. 5\"/>

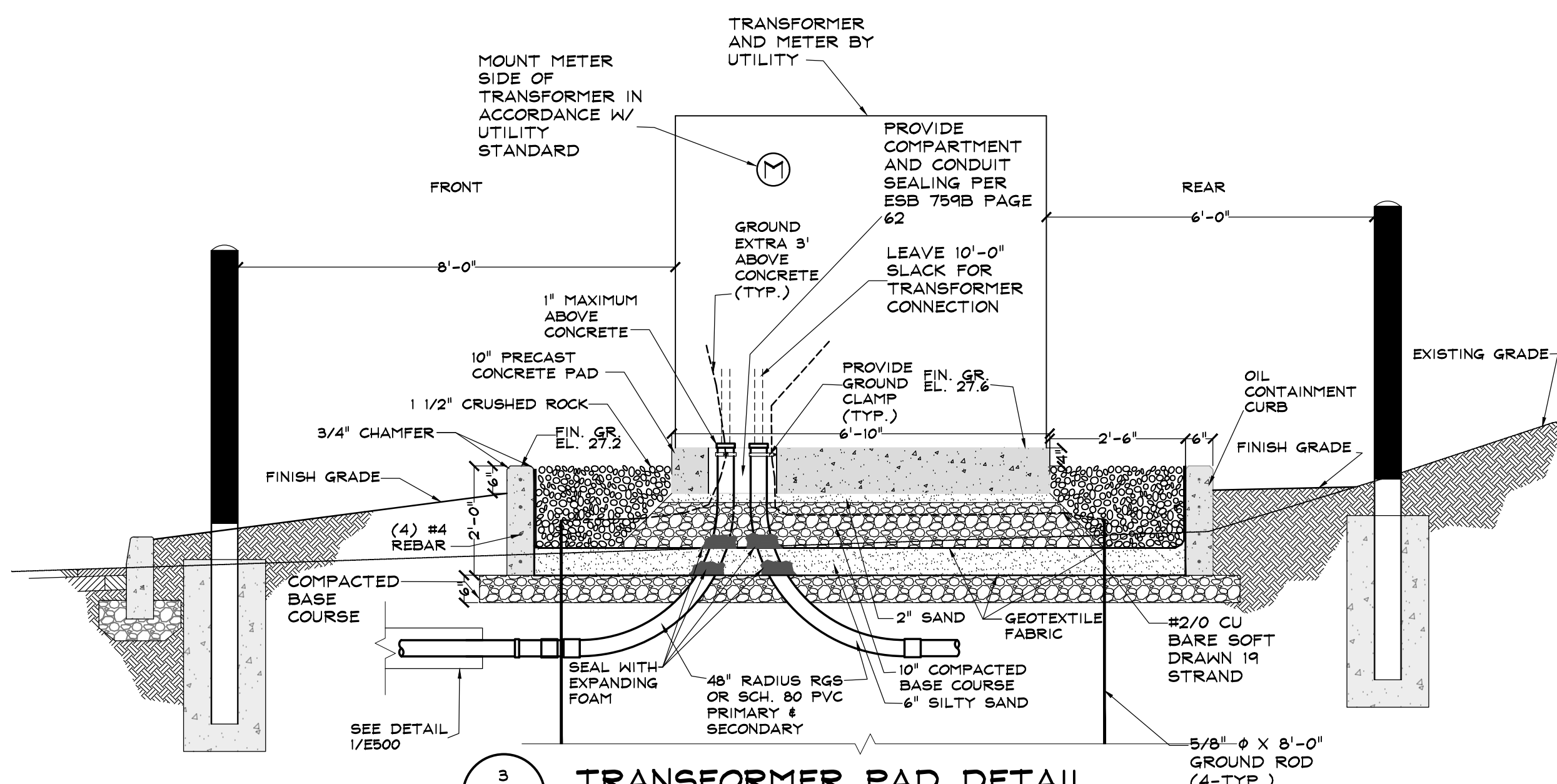


4
E500
TRANSFORMER PAD AREA
SCALE: N.T.S.

NOTES:
1. REFER TO SITE DUCT BANK SYSTEMS.
2. PAD AREA SHALL CONFORM TO CURRENT VERSION OF POWER COMPANY STANDARD ESB 759B.
3. PRECAST CONCRETE TRANSFORMER FOUNDATION SHALL BE BUILT TO NATIONAL GRID STANDARD FROM A VENDOR LISTED ON PAGE 53 OF ESB 759B.

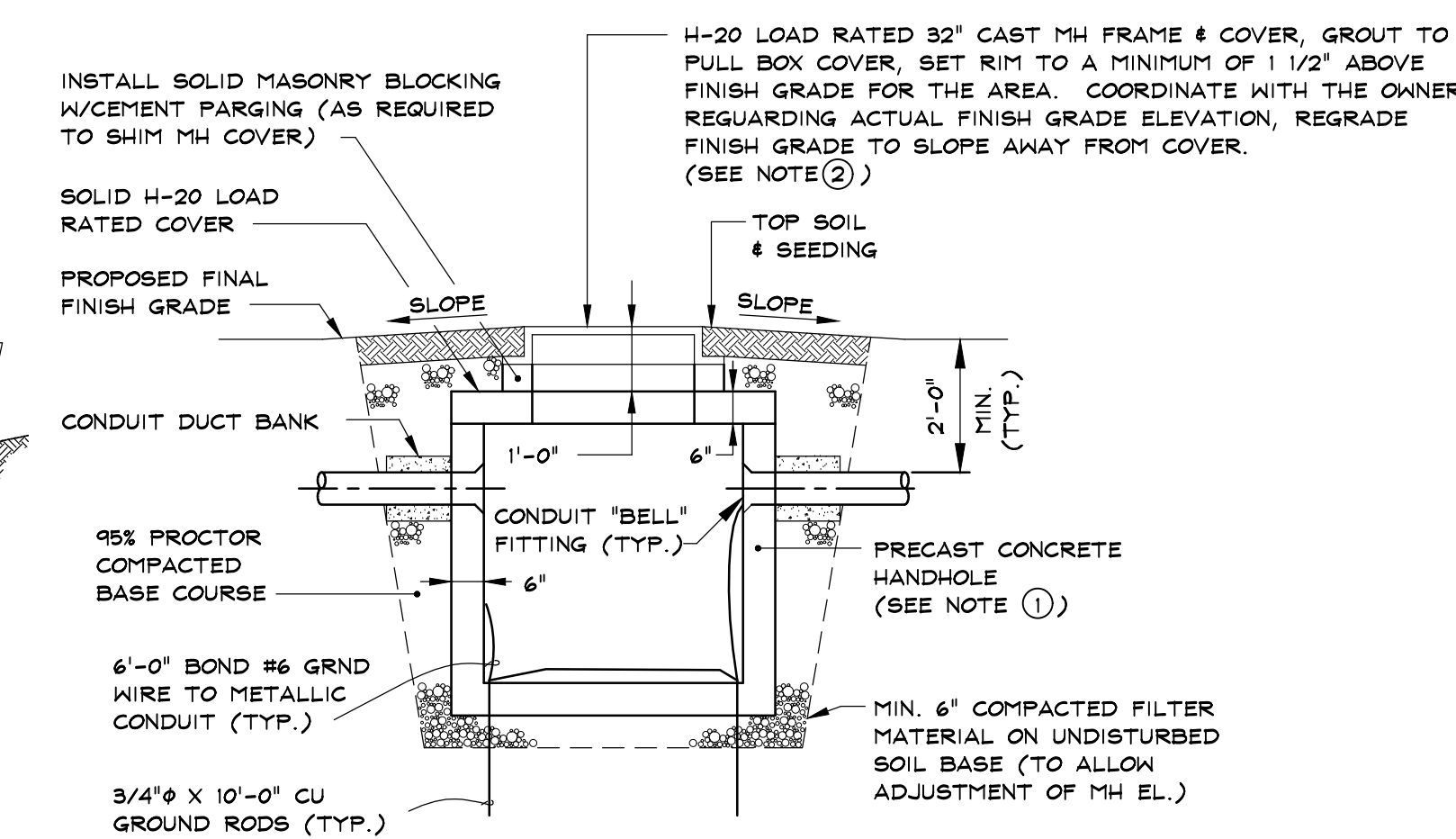
OIL CONTAINMENT NOTES:

- 1) Build oil curb, this should be installed with concrete in accordance with Mix #4 per concrete specifications on pages 45 thru 48 OF National Grids ESB 759B. Reinforcement to be #4, grade 60 rods minimum, 6 inches on center, bend rods around corners. Curb to be 24\"/>



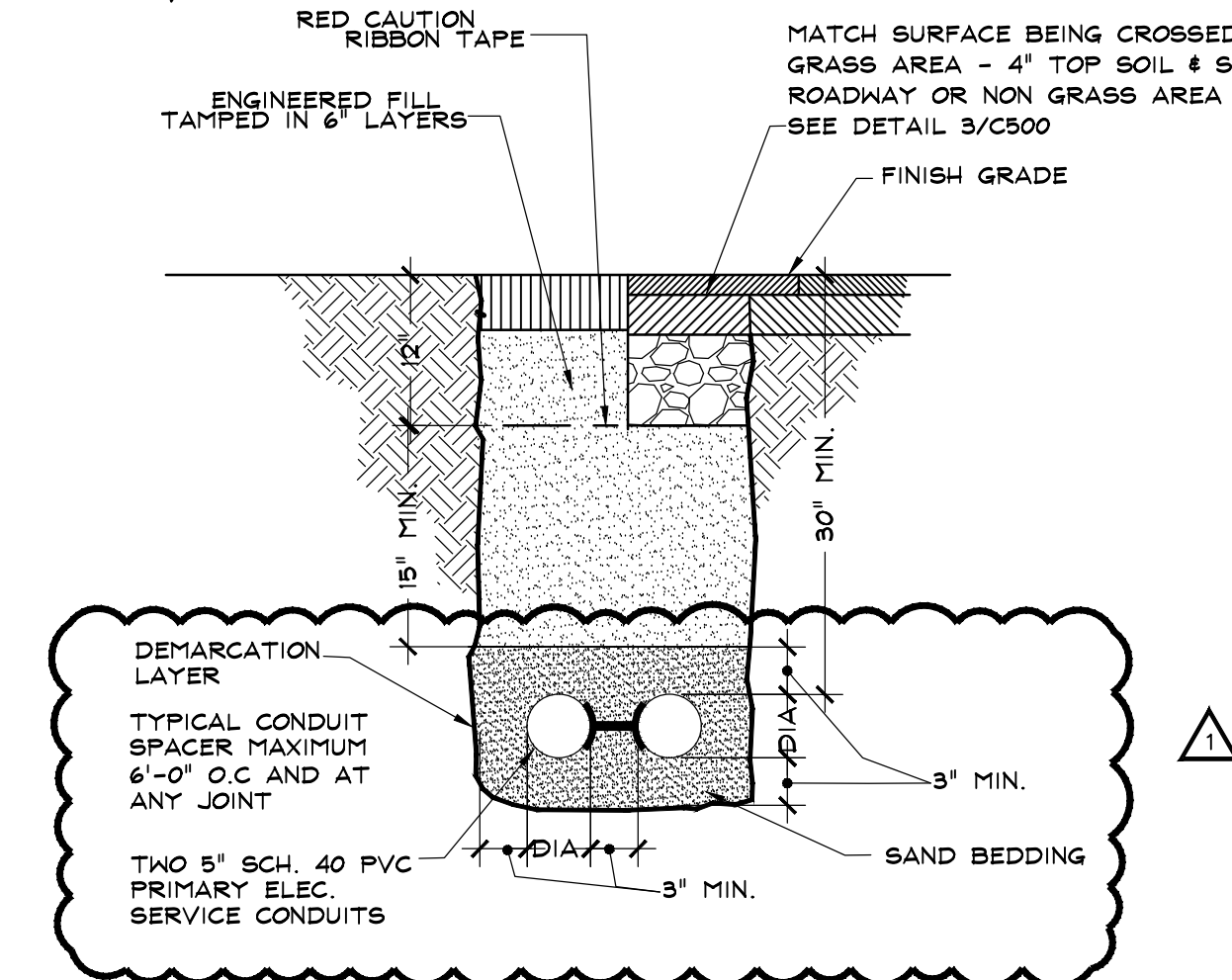
3
E500
TRANSFORMER PAD DETAIL
SCALE: N.T.S.

NOTE: DIRECTION OF CONDUIT ROTATED FOR ILLUSTRATION.



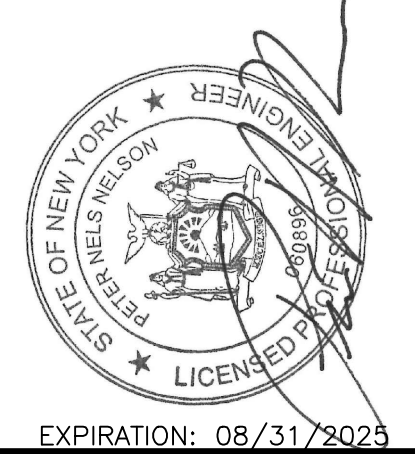
2
E500
TYP. HAND HOLE DETAIL
SCALE: N.T.S.

NOTES:
① PB SHALL BE 3\"/>

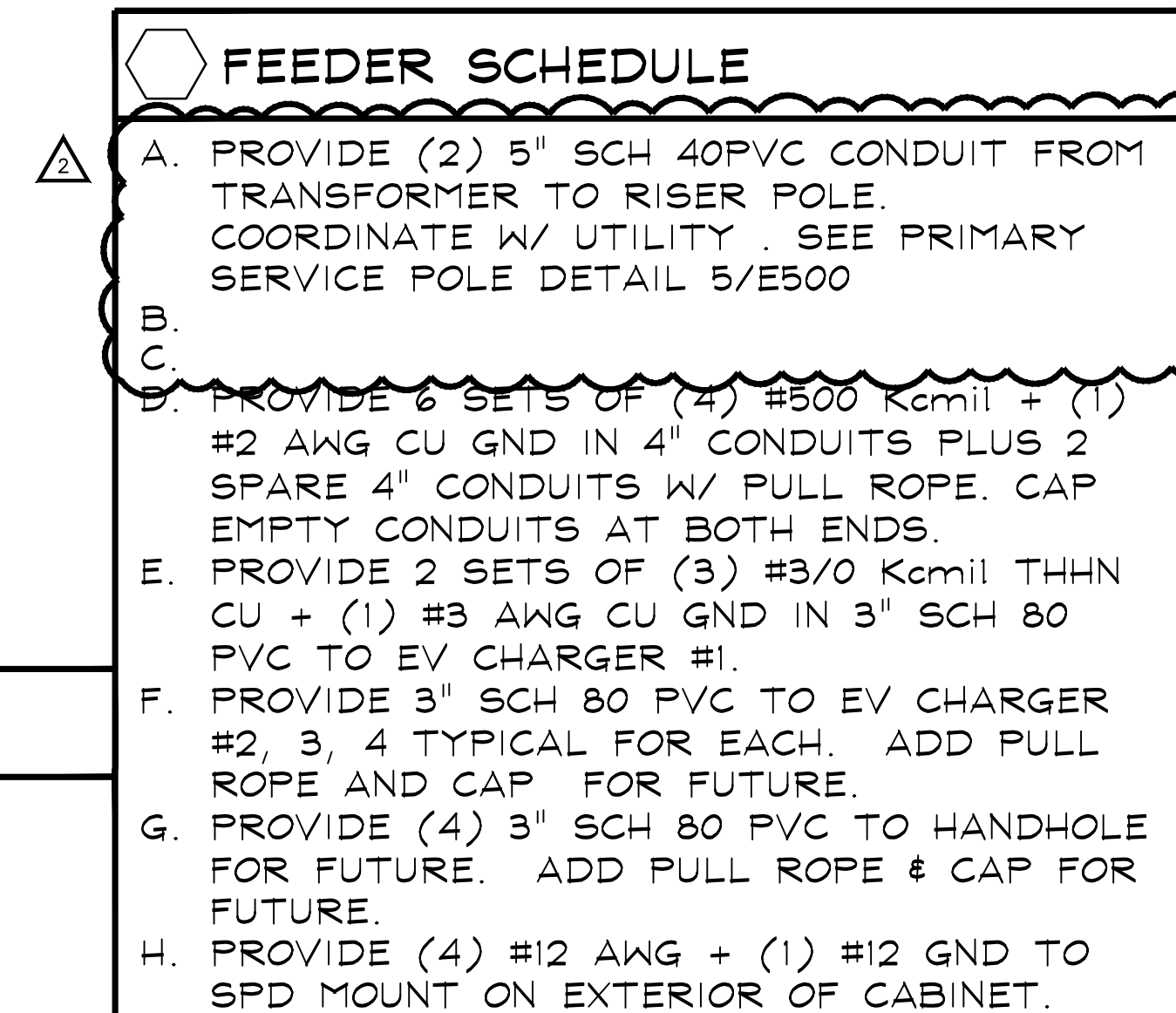
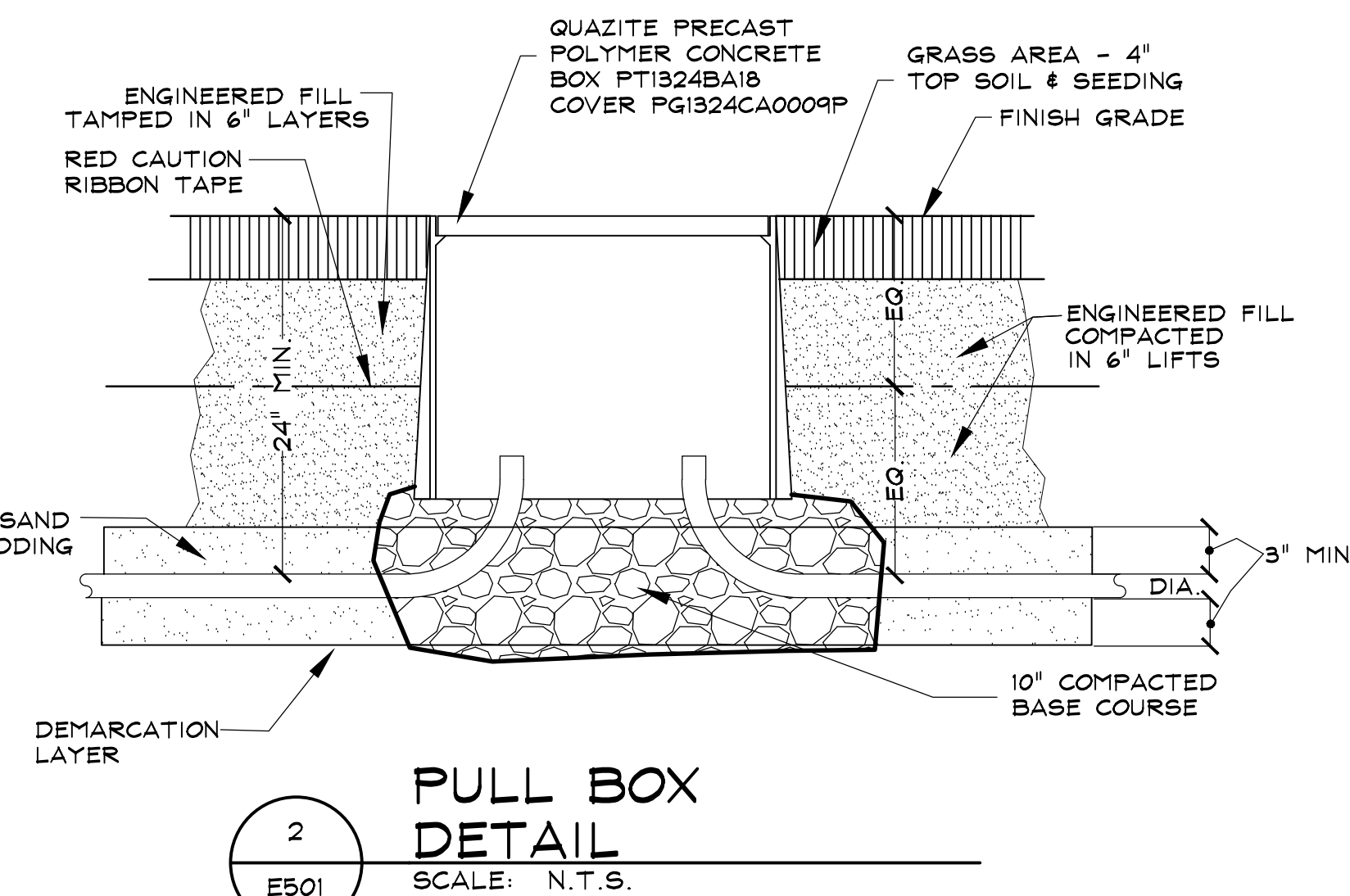


1
E500
PRIMARY ELECTRIC CONDUIT DETAIL
SCALE: N.T.S.

GENERAL NOTES:
A. REFER TO ONE-LINE DIAGRAM FOR ACTUAL QUANTITY AND SIZE OF CONDUITS REQUIRED.
B. PROVIDE GRANULAR BACKFILL AS SPECIFIED FOR BACKFILL.



ADDENDUM NO. 1	03/19/2024	AES
REVISION	DATE	BY
DATE	03/01/24	
DRAWN BY	AES	
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APPROVED BY	PNN	
SCALE	AS NOTED	



1. PROVIDE SURGE PROTECTION DEVICE.
EATON MODEL SPD 400480Y2M OR
APPROVED EQUAL.
2. METER AND CT'S TO BE FURNISHED &
INSTALLED BY UTILITY.
3. 1500 KVA PAD MOUNTED TRANSFORMER BY
UTILITY.
4. COORDINATE THE SIZE OF SWITCHBOARDS
WITH GC FOR EXACT CONCRETE PAD SIZE
REQUIREMENTS AND CONDUIT OPENING
LOCATIONS. SWITCHBOARDS FURNISHED AND
INSTALLED BY CONTRACTOR.

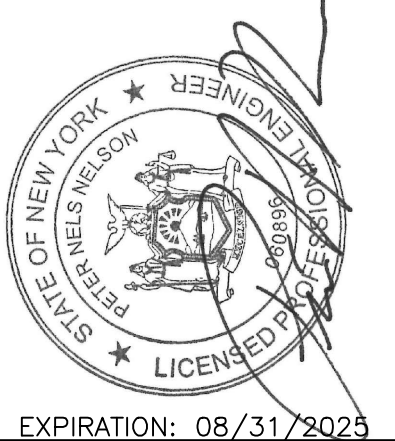
	METER
	FUSE
	KIRK KEY INTERLOCK
	GENERATOR
	CIRCUIT BREAKER
	SWITCH
	SURGE PROTECTIVE DEVICE
	EARTH GROUND
	FUSED SWITCH

C.T.	CURRENT TRANSFORMER
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
RGS	RIGID GALVANIZED STEEL

I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ARCHITECT/ENGINEER, TO ALTER THIS DOCUMENT IN ANY MANNER, BELIEF AND HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. THE UNDERSIGNED ARCHITECT/ENGINEER STATES THAT TO THE BEST OF THEIR KNOWLEDGE, INFORMATION, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2020 NEW YORK STATE FAMILY OF CODES, AND THE 2017 NATIONAL ELECTRICAL CODE. © 2024



CERTIFICATE OF
AUTHORIZATION No. 0021429



NATIONAL GRID
N. ALBANY SERVICE CENTER
DC FAST CHARGERS
1125 BROADWAY
MENANDS, NEW YORK 13204

PROJECT NO. 23-2280

2	ADDENDUM NO. 1	03/19 2024	AES
1	RFI NO. 3	03/12 2024	AES
REVISION	DATE	BY	
DATE	03/01/24		
DRAWN BY	AES		
CHECKED BY	ARB		
APPROVED BY	PNN		
SCALE	AS NOTED		

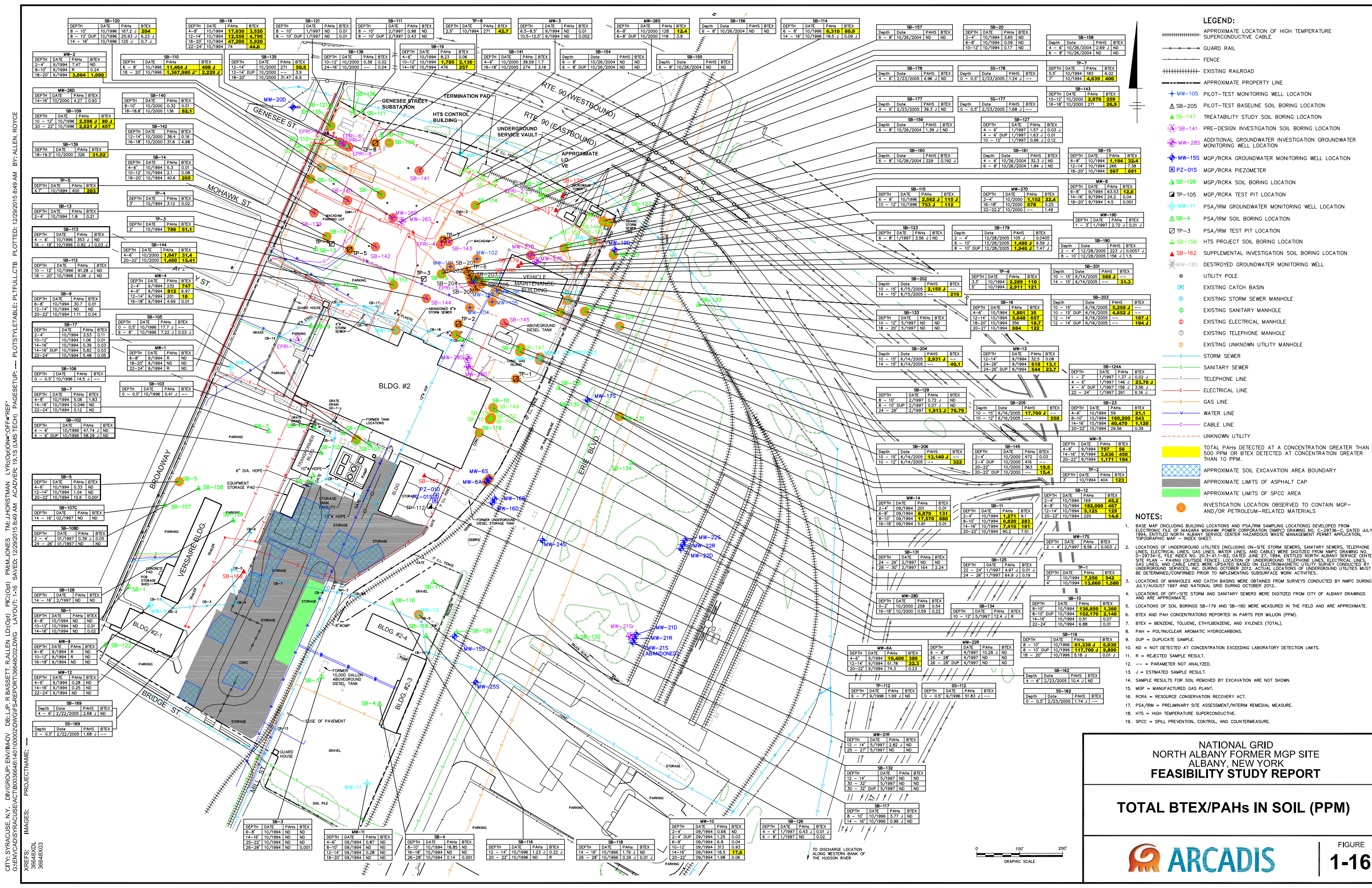
SHEET TITLE
ONE-LINE
DIAGRAM AND
DETAILS

SHEET NO.

E501

Attachment 2

**Analytical Results for Soil Near the Proposed DCFC
Construction Area**



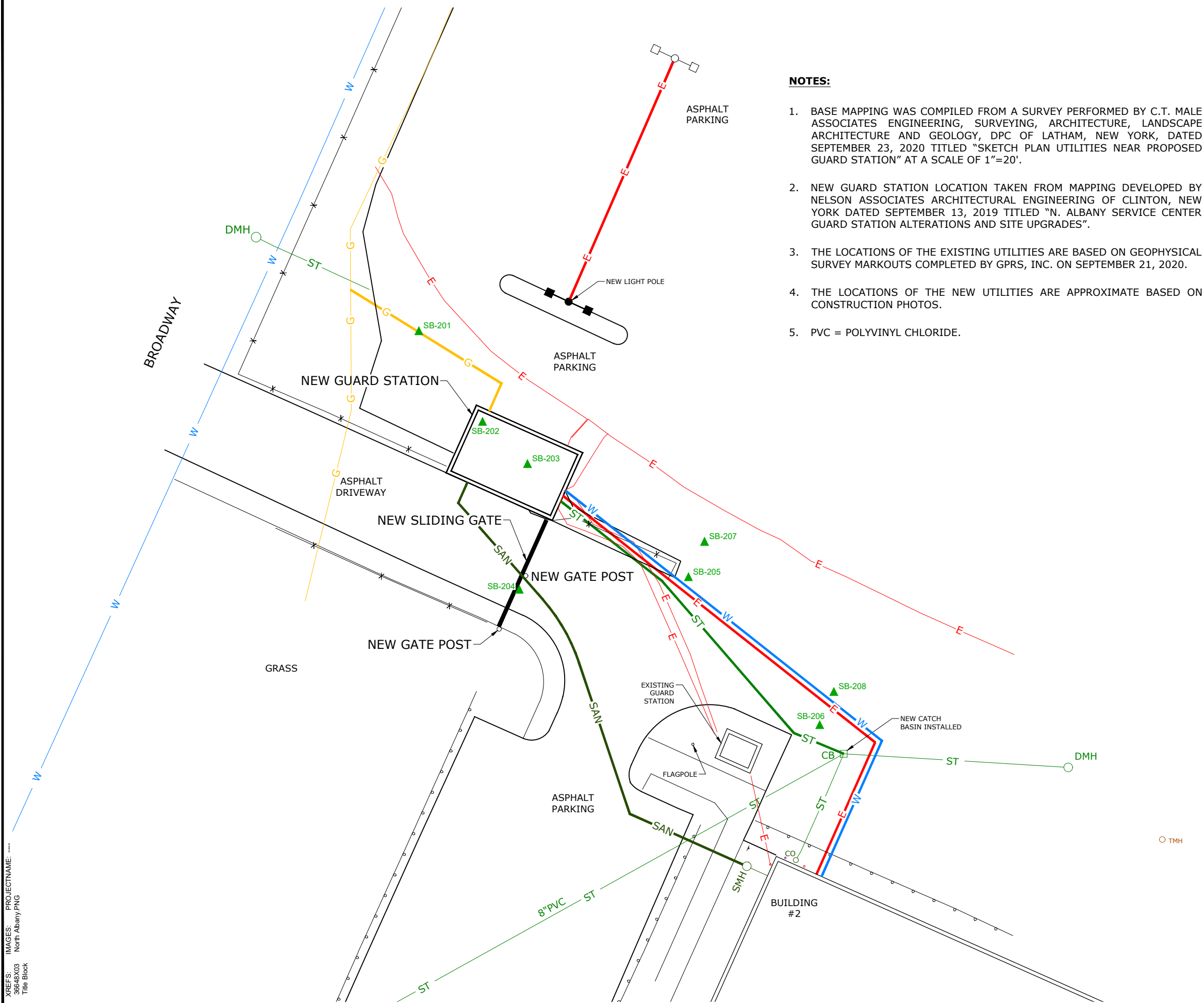
- LEGEND:**
- APPROXIMATE LOCATION OF HIGH TEMPERATURE SUPERCONDUCTIVE CABLE
 - GUARD RAIL
 - FENCE
 - EXISTING RAILROAD
 - APPROXIMATE PROPERTY LINE
 - MW-105 PILOT-TEST MONITORING WELL LOCATION
 - SB-205 PILOT-TEST BASELINE SOIL BORING LOCATION
 - SB-147 TREATABILITY STUDY SOIL BORING LOCATION
 - SB-141 PRE-DESIGN INVESTIGATION SOIL BORING LOCATION
 - MW-285 ADDITIONAL GROUNDWATER INVESTIGATION GROUNDWATER MONITORING WELL LOCATION
 - MW-155 MGP/RCRA GROUNDWATER MONITORING WELL LOCATION
 - PZ-015 MGP/RCRA PIEZOMETER
 - SB-126 MGP/RCRA SOIL BORING LOCATION
 - TP-105 MGP/RCRA TEST PIT LOCATION
 - MW-11 PSA/IRM GROUNDWATER MONITORING WELL LOCATION
 - SB-4 PSA/IRM SOIL BORING LOCATION
 - TP-3 HTS/IRM TEST PIT LOCATION
 - SB-156 HTS PROJECT SOIL BORING LOCATION
 - SB-162 SUPPLEMENTAL INVESTIGATION SOIL BORING LOCATION
 - MW-185 DESTROYED GROUNDWATER MONITORING WELL
 - UTILITY POLE
 - EXISTING CATCH BASIN
 - EXISTING STORM SEWER MANHOLE
 - EXISTING SANITARY MANHOLE
 - EXISTING ELECTRICAL MANHOLE
 - EXISTING TELEPHONE MANHOLE
 - EXISTING UNKNOWN UTILITY MANHOLE
 - STORM SEWER
 - SANITARY SEWER
 - TELEPHONE LINE
 - ELECTRICAL LINE
 - GAS LINE
 - WATER LINE
 - CABLE LINE
 - UNKNOWN UTILITY
 - UNKNOWN PAHs DETECTED AT A CONCENTRATION GREATER THAN 500 PPM OR BTEX DETECTED AT CONCENTRATION GREATER THAN 10 PPM
 - APPROXIMATE SOIL EXCAVATION AREA BOUNDARY
 - APPROXIMATE LIMITS OF ASPHALT CAP
 - APPROXIMATE LIMITS OF SPCC AREA
 - INVESTIGATION LOCATION OBSERVED TO CONTAIN MGP- AND/OR PETROLEUM-RELATED MATERIALS

- NOTES:**
- BASE MAP (INCLUDING BUILDING LOCATIONS AND PSA/IRM SAMPLING LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29736-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
 - LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLES) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-C, FILE INDEX NO. 203-A11-B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN - PAVING (OUTSIDE FENCE). LOCATION OF UNDERGROUND TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, AND CABLE LINES WERE VERIFIED BASED ON ELECTROMAGNETIC UTILITY SURVEY CONDUCTED BY UNDERGROUND SERVICES, INC. DURING OCTOBER 2012. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MUST BE DETERMINED/CONFIRMED PRIOR TO IMPLEMENTING SURFACE WORK ACTIVITIES.
 - LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM SURVEYS CONDUCTED BY NMPC DURING JULY/AUGUST 1997 AND NATIONAL GRID DURING OCTOBER 2012.
 - LOCATIONS OF OFF-SITE STORM AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.
 - LOCATIONS OF SOIL BORINGS SB-179 AND SB-180 WERE MEASURED IN THE FIELD AND ARE APPROXIMATE.
 - BTEX AND PAH CONCENTRATIONS REPORTED IN PARTS PER MILLION (PPM).
 - BTEX = BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES (TOTAL).
 - PAH = POLYNUCLEAR AROMATIC HYDROCARBONS.
 - DUP = DUPLICATE SAMPLE.
 - ND = NOT DETECTED AT CONCENTRATION EXCEEDING LABORATORY DETECTION LIMITS.
 - R = REJECTED SAMPLE RESULT.
 - = PARAMETER NOT ANALYZED.
 - J = ESTIMATED SAMPLE RESULT.
 - SAMPLE RESULTS FOR SOIL REMOVED BY EXCAVATION ARE NOT SHOWN.
 - MGP = MANUFACTURED GAS PLANT.
 - RCRA = RESOURCE CONSERVATION RECOVERY ACT.
 - PSA/IRM = PRELIMINARY SITE ASSESSMENT/INTERIM REMEDIAL MEASURE.
 - HTS = HIGH TEMPERATURE SUPERCONDUCTIVE.
 - SPCC = SPILL PREVENTION, CONTROL, AND COUNTERMEASURE.

NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
FEASIBILITY STUDY REPORT

TOTAL BTEX/PAHs IN SOIL (PPM)



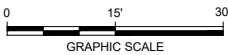


NOTES:

1. BASE MAPPING WAS COMPILED FROM A SURVEY PERFORMED BY C.T. MALE ASSOCIATES ENGINEERING, SURVEYING, ARCHITECTURE, LANDSCAPE ARCHITECTURE AND GEOLOGY, DPC OF LATHAM, NEW YORK, DATED SEPTEMBER 23, 2020 TITLED "SKETCH PLAN UTILITIES NEAR PROPOSED GUARD STATION" AT A SCALE OF 1"=20'.
2. NEW GUARD STATION LOCATION TAKEN FROM MAPPING DEVELOPED BY NELSON ASSOCIATES ARCHITECTURAL ENGINEERING OF CLINTON, NEW YORK DATED SEPTEMBER 13, 2019 TITLED "N. ALBANY SERVICE CENTER GUARD STATION ALTERATIONS AND SITE UPGRADES".
3. THE LOCATIONS OF THE EXISTING UTILITIES ARE BASED ON GEOPHYSICAL SURVEY MARKOUTS COMPLETED BY GPRS, INC. ON SEPTEMBER 21, 2020.
4. THE LOCATIONS OF THE NEW UTILITIES ARE APPROXIMATE BASED ON CONSTRUCTION PHOTOS.
5. PVC = POLYVINYL CHLORIDE.

LEGEND

	CB	CATCH BASIN
	DMH	DRAINAGE MANHOLE
		SOIL BORING
		GUARD RAIL
		FENCE
		LIGHT POLE
NEW:		
	G	GAS MAIN
	ST	STORM SEWER PIPE
	SAN	SANITARY PIPE
	E	ELECTRIC CONDUIT
	W	WATER PIPE
		LIGHT POLE
EXISTING:		
	G	GAS MAIN
	ST	STORM SEWER PIPE
	SAN	SANITARY PIPE
	E	ELECTRIC CONDUIT
	W	WATER PIPE



NATIONAL GRID
NORTH ALBANY FORMER MGP SITE
ALBANY, NEW YORK
GUARD STATION RELOCATION

GUARD STATION RELOCATION
CONSTRUCTION LIMITS

ARCADIS

FIGURE
3

Table 1
Soil Analytical Results (ppm)

Guard Station Relocation Focused Soil Investigation
National Grid
North Albany Former Manufactured Gas Plant Site
Albany, New York

Location ID: Sample Depth (Inches): Date Collected:	NYSDEC Part 375 Restricted Use Commercial SCOs	SB-201 10 09/24/20	SB-203 10 09/24/20	SB-204 10 09/23/20	SB-205 8 09/24/20	SB-208 10 09/23/20
Detected PCBs						
None Detected	--	<0.26	<0.23	<0.26	<0.43 [<0.24]	<0.26
Detected VOCs						
Styrene	--	0.0017 J	<0.0049	<0.0065	<0.0046 [<0.0049]	<0.015
Detected SVOCs						
Acenaphthylene	500	0.83 J	0.84 J	<19	<3.6 [<3.8]	<3.8
Acetophenone	--	0.36 J	<0.94	<19	<3.6 [<3.8]	<3.8
Benzo(a)anthracene	5.6	1.3 F1F2	1.1	<19	<3.6 [<3.8]	0.67 J
Benzo(a)pyrene	1	1.4 F1F2	1.1	<19	<3.6 [<3.8]	<3.8
Benzo(b)fluoranthene	5.6	2.1 F1F2	1.8	<19	<3.6 [<3.8]	0.72 J
Benzo(g,h,i)perylene	500	1.5	1.0	<19	<3.6 [<3.8]	<3.8
Benzo(k)fluoranthene	56	1.0	0.71 J	<19	<3.6 [<3.8]	<3.8
Chrysene	56	1.6 F1F2	1.3	<19	<3.6 [<3.8]	<3.8
Dibenz(a,h)anthracene	0.56	0.35 J	0.23 J	<19	<3.6 [<3.8]	<3.8
Fluoranthene	500	0.88 JF1F2	1.1	<19	<3.6 [<3.8]	0.83 J
Indeno(1,2,3-cd)pyrene	5.6	1.2	0.79 J	<19	<3.6 [<3.8]	<3.8
Phenanthrene	500	0.19 J	0.41 J	<19	<3.6 [<3.8]	0.93 J
Pyrene	500	1.6 F1	1.5	<19	<3.6 [<3.8]	1.2 J
Detected Inorganics						
Aluminum	--	13,200	7,960	10,000	12,300 [13,100]	8,300
Arsenic	16	8.80	6.10	7.30	6.50 [6.80]	8.80
Barium	400	110 *F1	88.1 *	72.1 *	69.9 * [74.7 *]	487 *
Beryllium	590	0.530	0.490	0.500	0.600 [0.630]	0.650
Cadmium	9.3	0.660	0.0780 J	0.0770 J	0.240 [0.250]	0.200 J
Calcium	--	2,560 BF1	5,350 B	9,090	19,700 B [19,200 B]	3,250
Chromium	--	19.8	14.2	14.3	15.9 [18.0]	12.9
Cobalt	--	6.20	6.90	8.10	9.00 [8.70]	7.70
Copper	270	42.9	49.2	33.9	24.8 [27.8]	30.5
Cyanide	27	3.20 F1	1.00	<1.10	<1.00 [<1.10]	<0.960
Iron	--	28,200	19,100	20,800	21,500 [23,000]	18,600
Lead	1,000	694	189	163	34.3 [53.5]	300
Magnesium	--	3,670 F1	3,010	3,750	10,300 [6,530]	2,320
Manganese	10,000	321 BF2	246 B	383 B	541 B [459 B]	202 B
Mercury	--	0.200	0.490	0.620	0.160 [0.110]	0.190
Nickel	310	18.6	16.9	19.4	21.5 [23.0]	23.8
Potassium	--	2,660 F1	1,630	1,780	2,260 [2,420]	1,240
Selenium	1,500	<4.60	0.580 J	0.600 J	<4.50 [<4.60]	<4.60
Sodium	--	873	530	677	678 [676]	2,290
Vanadium	--	27.9 F1	21.4	20.7	24.6 [27.8]	19.3
Zinc	10,000	122 F1	65.0	81.2	157 [165]	69.8
Detected Miscellaneous						
TPH DRO	--	450	200	40	<170 [66 J]	70
TPH GRO	--	0.74 J	0.84 J	1.3	<2.3 [<2.4]	2.7

Table 1
Soil Analytical Results (ppm)

Guard Station Relocation Focused Soil Investigation
National Grid
North Albany Former Manufactured Gas Plant Site
Albany, New York

Notes:

1. Samples were collected by Arcadis of New York, Inc. (Arcadis) on the dates indicated.
2. Samples were analyzed by Eurofins TestAmerica of Amherst, New York for the following:
 - Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8082A.
 - Target Compound List (TCL) volatile organic compounds (VOCs) using USEPA SW-846 Method 8260C.
 - TCL semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270D.
 - Target Analyte List (TAL) inorganic constituents using USEPA SW-846 Method 6010C, 7471B, and 9012B.
 - Total petroleum hydrocarbons (TPH) diesel range organics (DRO) using USEPA SW-846 Method 8015D.
 - TPH gasoline range organics (GRO) using USEPA SW-846 Method 8015D.
3. Concentrations reported milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).
4. Duplicate samples are shown in [].
5. Only those constituents detected in one or more samples are summarized.
6. Data qualifiers are defined as follows:
 - < - Constituent not detected at a concentration above the reported detection limit.
 - B - Compound was found in the blank and sample.
 - F1 - Matrix spike or matrix spike duplicate recovery exceeds control limits.
 - F2 - Matrix spike/matrix spike duplicate relative percent difference exceeds control limits
 - J - Indicates that the associated numerical value is an estimated concentration.
 - * - Instrument related quality control is outside acceptance limits.
7. 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) are from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b), effective December 14, 2006.
8. Shading indicates that the result exceeds the 6 NYCRR Part 375 Commercial Use SCO.
9. NA = not analyzed.
10. - - = No 6 NYCRR Part 375 SCO listed.
11. Results have not been validated.

Attachment 3

**Soil Boring/Test Pit Logs
(SB-13, SB-14, SB-139, SB-201, SB-202, SB-203, TP-4)**

LOG OF BORING

PROJECT: Wagamahohawok

PROJECT NO:

LOCATION: N. Albany, NY

GEOLOGIST: K. MacGregor

DRILLER: SSB

DRILLING/SAMPLING METHOD: 4 1/4" HSA 2" Carbon Steel Split Spoon

BORING NUMBER: SB-13

DATE STARTED: 10/18/94

DATE COMPLETED: 10/18/94

GROUNDWATER DEPTH:

ELEVATION:

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY	PRO-FILE	USCS CLASS	MATERIAL DESCRIPTION	COLLECTION		HNU ppm	COMMENTS
							Time	Date		
	0									
	0.5					asphalt				
		3-4-4	16"			0-13": Med. dk brn f-c SAND, little silt and f-engrvl, moist	0742	10/18/94	NAB	
						13-16": Med brn - blk f SAND and SILT, very moist				
SB-13	2									
2-4'		4-4-5-50/3"	18"			0-18": Med brn - blk f SAND and SILT, very moist to saturated.	0745	10/18/94	3.4 ppm	Indicators
						Boring terminated at 3.75'				

NOTES:

PAGE 1 OF 1

LOG OF BORING

PROJECT: Niagara Mohawk
PROJECT NO:
LOCATION: N. Albany, NY
GEOLOGIST: K. MacGregor
DRILLER: STB
DRILLING/SAMPLING METHOD: 4 1/4" HSA / 2" Carbon Steel Split Spoon

BORING NUMBER: SB-14
DATE STARTED: 10/15/94
DATE COMPLETED: 10/18/94
GROUNDWATER DEPTH: ~8 feet.
ELEVATION:

OVA

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY	PRO-FILE	USCS CLASS	MATERIAL DESCRIPTION	COLLECTION		HNU ppm	COMMENTS
							Time	Date		
	0									
	.5									
		7-6-5	6"		Fill	0-6": Med brn silt & f. sand, gravel base of asphalt	0816	10/15/94	NAB	
	2									
		6-5-2	12"		Fill	0-12": Med brn f-m sand, some silt, tr. clay, moist, few brick chunks	0821	10/18/94	NAB	
	4									
SB-14		3-3-3	7"		Fill	0-7": Med brn f-c sand, little silt and clay, moist	0830	10/18/94	NAB	Indicators
4-6'		4								
	6									
		6-4-4	0"			no recovery	0833	10/18/94	—	
		9								
	8									
SB-14		3-4-4	22"		SP	0-8": Med brn f-sand, little silt and clay, saturated.	0844	10/18/94	NAB	3" spoon - slight fuel oil odors
8-10'		5				8-22": Green-brn f-c sand tr. gravel and silt, saturated, fuel-like odors				between 8-22"
	10									
SB-14		1-2-5	19"		SP	0-19": Black m-c sand, tr. f-c gravel and f. sand, saturated, slight fuel oil odor	0846	10/18/94	0.1	NS/MSD Indicators
10-12'		11								
	12									
		9-4-8	16"		ML	0-2": as above	0851	10/18/94	NAB	
		12			OK	2-16": Med grey clayey silt, like f-c gravel, tr. f-c sand, few shale fragments, saturated				
	14									

NOTES:

LOG OF BORING

PROJECT: Niagara Mohawk
 PROJECT NO:
 LOCATION: W Albany, NY
 GEOLOGIST: K. MacGregor
 DRILLER: SJB
 DRILLING/SAMPLING METHOD: 4 1/4" HSA / 2" Carbon Steel Split Spoon

BORING NUMBER: SB-14
 DATE STARTED: 10/18/99
 DATE COMPLETED: 10/18/99
 GROUNDWATER DEPTH: ~8 feet
 ELEVATION:

SAMPLE ID	DEPTH (feet)	BLOWS per 6"	RECOVERY	PRO-FILE	USCS CLASS	MATERIAL DESCRIPTION	COLLECTION		HNU ppm	COMMENTS
							Time	Date		
	14	9-16-18-19	13"		CL SW	0-18": Med grey f-c SAND and CLAY, little f-c gravel and shale, saturated	0903	10/18/99	NAB	3" spoon
	16	8-16-23-33	14"		TIL	0-5": as above 5-14": Med grey silty CLAY and SHALE, little tr. f. m sand, moist	0907	10/18/99	NAB	
SB-14 18-20	20	20-21-18-14	16"		TIL	0-8": as above 8-16": Med grey SHALE, little f-c sand and clay, brown coal tar impregnations	0912	10/18/99	60 ppm	Indicators
SB-14 20-22		11-14-20-50 1/4"	17"	20.7	TIL SH	0-7": As above 7-17": Med grey SHALE, tr. silt, saturated w/ brown coal tar, very strong odors	0932	10/18/99	10 ppm in 3" spoon 62 dth are open.	TCLP metals
						Boring terminated at 21.8'				

NOTES:

Well ID: SB-139

Client: Niagara Mohawk Power Corporation

Location: 1125 Broadway
Albany, New York

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Dark gray fine SAND, SILT and CLAY.	Saturated Zones <table style="width: 100%; border-collapse: collapse;"><tr><th style="width: 33%;">Date / Time</th><th style="width: 33%;">Elevation</th><th style="width: 33%;">Depth</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	Date / Time	Elevation	Depth												
	Date / Time	Elevation	Depth														
Remarks: Submit 18'-19.3' (BTEX and PAH/CN (total))																	
Submit 18'-19.3' (MS/MSD, PAH/CN (total))																	
Auger refusal at 20.8'																	
Ref = Refusal.																	

Client:

Niagara Mohawk Power Corporation

Well ID: SB-139

Location:

1125 Broadway

Total Depth: 20.8

Albany, New York

DEPTH	ELEVATION	Sample Run Number	Sample Int/Type	Recovery (feet)	Blows / 6 inches	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Hydrostratigraphy	Construction Well Construction
		9	2" SS	2	10 10 14 15	24	665	SM			Dark gray fine SAND, SILT and CLAY. Gray fine to coarse SAND and SILT, little fine Gravel, saturated, sheen , odor.	Sand and Silt	
								SM			Gray fine to coarse SAND and Clayey SILT, poorly sorted, sheen .		
		10	2" SS	1.3	10 31 50/3	Ref	NA	GP			As above, saturated. Coarse SAND and fine GRAVEL (Shale), NAPL (film) visible, saturated, odor.		
								SM			Gray fine to coarse SAND and SILT, poorly sorted, wet.		
20.5		11	2" SS	0.3	100/3	Ref	663	CH			Dark gray SHALE, NAPL visible in spoon (film).	Shale	
25.0													
30.5													
35.10													

BBL

 BLASLAND, BOUCK & LEE, INC.
 engineers & scientists

Remarks: Submit 18'-19.3' (BTEX and PAH/CN (total))

Submit 18'-19.3' (MS/MSD, PAH/CN (total))

Auger refusal at 20.8'

Ref = Refusal.

Saturated Zones

Date / Time	Elevation	Depth

 18-19.3'
 BTEX-
 31.5
 PAHs-
 473

Site _____
Location Broadway, Manhasset, NY

Drilling _____
Started _____

Drilling _____
Completed _____

Land-Surface Elev. feet Surveyed Estimated Datum

Prepared By K. Liloia Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface)	Core Recovery	PID Reading	Time/Hydraulic Pressure or Blows per 6 inches	MS/MSD taken here	0930
				SB-201 (10'')	0930

From	To	(feet)	(ppm)	Inches	Sample/Core Description
0.5'	Below Bottom Asphalt (10" BGS)		0.1		Film/c sand w/ cobbles, Brown
	1'		0.1		Film/c Sand w/ cobbles, Brown
	2'		0.1		Film Sand w/ clumps of plastic Brown clay throughout. BROWN
	3'		0.1		Film Sand w/ few cobbles throughout - loose Brown
	4'		0.1		Film Sand w/ coarse sand throughout - loose Brown
	5'		0.1		Film Sand w/ cobbles throughout - loose - Brown

Found Possible Pipe in Original hole location - Already Saw cut 2' Field Forms-Environmental.xls
Boring Log of asphalt for MS/MSD sampling. • NO pipe found



Sample/Core Log

Boring/Well SB-202 Project/No. Nat. Grid North Albany Page of

Site Broadway, Menands, NY Drilling Drilling
Location Broadway, Menands, NY Started Completed

Total Depth Drilled 5' Feet Hole Diameter ~4" inches Type of Sample/
Coring Device Split Spoon ^{KL} Hand Auger

Length and Diameter of Coring Device 10" x 4" Hand Auger Sampling Interval 1 feet

Land-Surface Elev. NA feet Surveyed Estimated Datum

Drilling Fluid Used NA Drilling Method Hand Auger

Drilling Contractor Parrott Wolff Driller ^{Mark} Cover Helper Jared Evans

Prepared By K. Liloia Hammer Hammer
Weight NA Drop NA ins.

Sample/Core Depth (feet below land surface) Core Recovery (feet) PID Reading (ppm) Time/Hydraulic Pressure or Blows per 6 Inches Sample/Core Description

6" under	Asphalt		0.2		clm/f sand w/ cobbles - Dark Brown
	1' BGS		0.2		clm/f sand w Trace cobbles & Brick fragments - DK Brown
	2' BGS		0.2		m/f sand w/ increasing clay (15%) - some coarse sand throughout - trace angular gravel
	3' BGS		0.2		clm/f sand w/ glass debris, some cobbles & Brick fragments
	4' BGS		0.2		clm/f sand w/ gravel - increasing clay content (15%)
	5' BGS		0.2		SAA

Sample/Core Log



9-24-2020

Boring/Well SB-203 Project/No. Not Grid North Albany Page 1 of 1

Site Broadway, Menands, NY Drilling Started Drilling Completed

Total Depth Drilled 5' Feet Hole Diameter ~4" inches Type of Sample/ Coring Device Split Spoon Hand Auger

Length and Diameter of Coring Device 10" x 4" Hand Auger Sampling Interval 1 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Drilling Fluid Used NA Drilling Method Hand Auger

Drilling Contractor Parrott Wolff Driller Mark Eaves Helper Jared Eaves

Prepared By K. Liloia Hammer NA Hammer Weight NA Drop NA ins.

From	To	Core Recovery (feet)	PID Reading (ppm)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.5' from bottom of asphalt			0.3		clm/f sand w/ cobbles - loose - DK Brown
1' BGS			0.3		clm/f sand w/ cobbles - loose - DK Brown
2' BGS			0.3		m/f sand w/ ^{some} coarse sand throughout - loose Brown
3' BGS			0.3		Ash material w/ m/f sand throught - some Fibrous tree ~~pieces~~ ~~pieces~~ - little cobbles DK Brown / Black
4' BGS			0.1		Ash material w/ m/f/coarse sand & cobbles throughout DK Brown / Black
5' BGS			0.3		Plastic Clay w/ F/m sand throughout - Brown

Test Pit Record

[illegible]