

NATIONAL GRID TEMPORARY SUBSTATION

0 & 14 MILL STREET

IN THE CITY OF

AMESBURY, MA

ISSUED FOR CITY OF AMESBURY REVIEW



SIMPSON GUMPERTZ & HEGER
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A	09/09/25	ISSUED FOR PERMIT	SPD
No.	Date	Description	By

NATIONAL GRID
TEMPORARY SUBSTATION
0 & 14 MILL STREET
AMESBURY, MA

Project

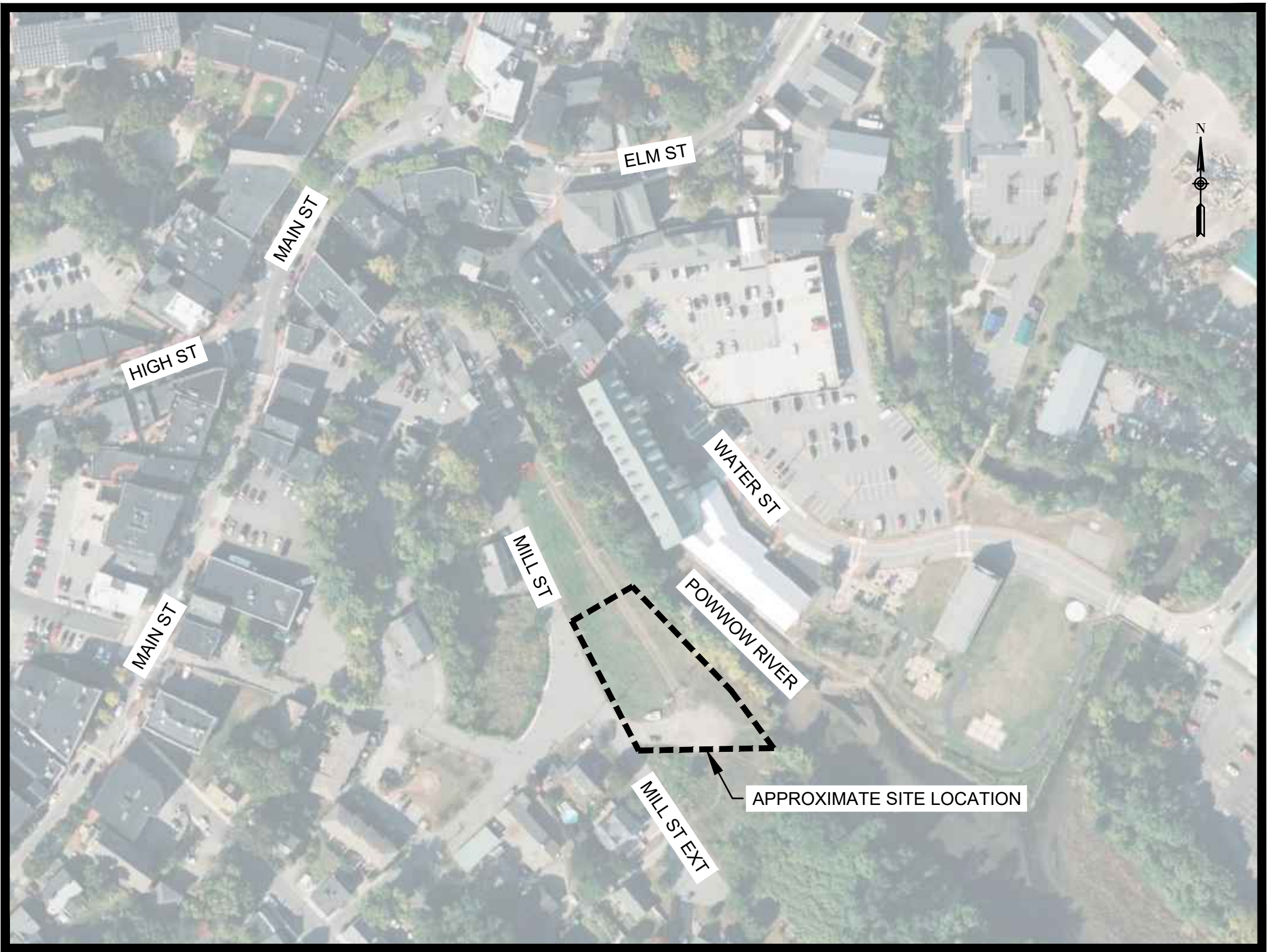
COVER SHEET

Drawing Title

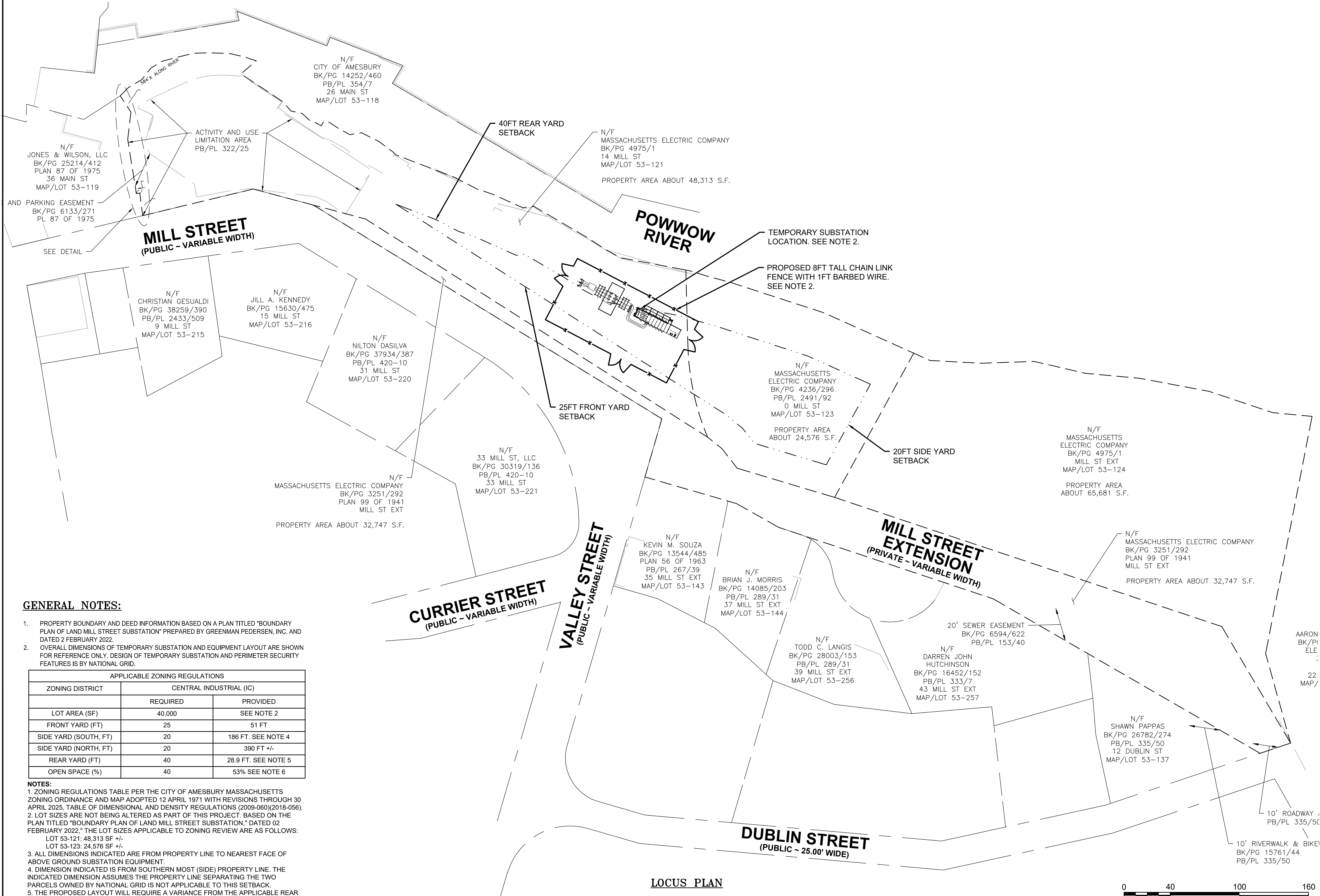
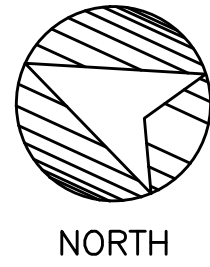
Project No. 211340.01	Checked CAC	Date 09/09/2025
Drawn BA	Approved SPD	Scale NTS
		Drawing No. G-0
Seal		09/09/2025

INDEX

SHEET NO.	DESCRIPTION	STATUS	DATE
G-0	COVER SHEET	IFP	09/09/2025
G-1	LOCUS PLAN	IFP	09/09/2025
N/A	BOUNDARY PLAN OF LAND (BY OTHERS)	-	02/02/2022
EX-1	EXISTING CONDITIONS MAP (BY OTHERS)	-	10/19/2021
C-0	CIVIL GENERAL NOTES	IFP	09/09/2025
C-1	DEMO, SITE PREP AND E&S PLAN	IFP	09/09/2025
C-2	SITE PLAN	IFP	09/09/2025
C-3	GRADING AND DRAINAGE PLAN	IFP	09/09/2025
C-4	UTILITY PLAN	IFP	09/09/2025
C-5	CIVIL DETAILS	IFP	09/09/2025
L-1	PLANTING PLAN	IFP	09/09/2025



SOURCE: PICTOMETRY, CONNECTEXPLORER (2022); NOT TO SCALE



GENERAL NOTES:

- PROPERTY BOUNDARY AND DEED INFORMATION BASED ON A PLAN TITLED "BOUNDARY PLAN OF LAND MILL STREET SUBSTATION" PREPARED BY GREENMAN PEDERSEN, INC. AND DATED 2 FEBRUARY 2022.
- OVERALL DIMENSIONS OF TEMPORARY SUBSTATION AND EQUIPMENT LAYOUT ARE SHOWN FOR REFERENCE ONLY. DESIGN OF TEMPORARY SUBSTATION AND PERIMETER SECURITY FEATURES IS BY NATIONAL GRID.

APPLICABLE ZONING REGULATIONS		
ZONING DISTRICT	CENTRAL INDUSTRIAL (IC)	
	REQUIRED	PROVIDED
LOT AREA (SF)	40,000	SEE NOTE 2
FRONT YARD (FT)	25	51 FT
SIDE YARD (SOUTH, FT)	20	186 FT. SEE NOTE 4
SIDE YARD (NORTH, FT)	20	390 FT +/-
REAR YARD (FT)	40	28.9 FT. SEE NOTE 5
OPEN SPACE (%)	40	53% SEE NOTE 6

NOTES:

- ZONING REGULATIONS TABLE PER THE CITY OF AMESBURY MASSACHUSETTS ZONING ORDINANCE AND MAP ADOPTED 12 APRIL 1971 WITH REVISIONS THROUGH 30 APRIL 2025. TABLE OF DIMENSIONAL AND DENSITY REGULATIONS (2009-060)(2018-056).
- LOT SIZES ARE NOT BEING ALTERED AS PART OF THIS PROJECT. BASED ON THE PLAN TITLED "BOUNDARY PLAN OF LAND MILL STREET SUBSTATION" DATED 02 FEBRUARY 2022, THE LOT SIZES APPLICABLE TO ZONING REVIEW ARE AS FOLLOWS:
LOT 53-121: 48,313 SF +/-
LOT 53-123: 24,576 SF +/-
- ALL DIMENSIONS INDICATED ARE FROM PROPERTY LINE TO NEAREST FACE OF ABOVE GROUND SUBSTATION EQUIPMENT.
- DIMENSION INDICATED IS FROM SOUTHERN MOST (SIDE) PROPERTY LINE. THE INDICATED DIMENSION ASSUMES THE PROPERTY LINE SEPARATING THE TWO PARCELS OWNED BY NATIONAL GRID IS NOT APPLICABLE TO THIS SETBACK.
- THE PROPOSED LAYOUT WILL REQUIRE A VARIANCE FROM THE APPLICABLE REAR SETBACK.
- PERCENT OPEN SPACE IS CALCULATED FOR THE TOTAL AREA OF LOTS 53-121 & 53-123 AND IS BASED ON THE BOUNDARY SURVEY (BY OTHERS), THE PROPOSED LAYOUT FOR THE TEMPORARY SUBSTATION, AND AERIAL IMAGERY.



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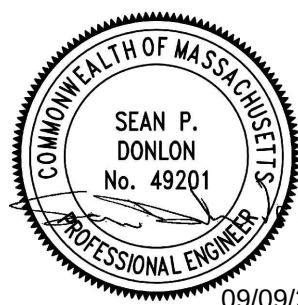
**NATIONAL GRID
TEMPORARY SUBSTATION
0 & 14 MILL STREET
AMESBURY, MA**

Project

LOCUS PLAN

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G-1

SURVEY BY OTHERS
SEE NOTE 1

GENERAL CIVIL NOTES:

PART 1 - GENERAL REQUIREMENTS AND DESIGN CRITERIA

- 1.1 SCOPE OF WORK (FOR REFERENCE ONLY, REFER TO PLANS)
- A. PROVIDE TEMPORARY CONSTRUCTION FACILITIES AS REQUIRED.
 - B. INSTALL ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS.
 - C. REMOVE AND DISPOSE ALL EXISTING SITE FEATURES AS INDICATED ON THE PLANS.
 - D. INSTALL PROPOSED UTILITIES.
 - E. PREPARE BASE MATERIAL AND INSTALL SUBSTATION EQUIPMENT & APPURTENANCES.
 - F. PERFORM FINE GRADING.
 - G. INSTALL SURFACE MATERIALS AS INDICATED.
 - H. REMOVE EROSION AND SEDIMENTATION CONTROLS ONCE SITE IS COMPLETELY STABILIZED.
- 1.2 GENERAL
- A. **THE PROPOSED WORK INDICATED HEREIN SHALL BE CONSISTENT WITH ALL RELEVANT CITY PERMITS AND APPROVALS. PERMITS AND APPROVALS SHALL BE OBTAINED PRIOR TO PROCEEDING WITH ANY AFFECTED WORK RELATED TO THE PROJECT.**
 - B. **THE TERM "CONTRACTOR" REFERS TO NATIONAL GRID OR OTHER CONTRACTOR DESIGNATED BY NATIONAL GRID TO COMPLETE THE WORK.**
 - C. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS REQUIRED FOR CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TEMPORARY PEDESTRIAN FACILITIES & TEMPORARY FENCING AND SITE ACCESS.
 - D. DEFICIENT WORK AND/OR WORK NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL COMPENSATE THE OWNER FOR SERVICES ARISING FROM DEFICIENT WORK, REVIEW OF MODIFICATIONS/CONTRACTOR SUBSTITUTION, OR EXPEDITING OF SUBMITTALS.
 - E. COST OF INVESTIGATION AND/OR REDESIGN INCURRED BY THE ENGINEER OF RECORD DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTOR'S EXPENSE.
 - F. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AND LOCAL REQUIREMENTS. CONTRACTOR MUST COMPLY WITH CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES AND ALL WORKER SAFETY STANDARDS. WORK SHALL NOT COMMENCE UNTIL ALL PERMITS REQUIRED FOR THE SUBJECT PORTION OF THE WORK ARE OBTAINED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL REQUIRED PERMITS AND/OR EVIDENCE OF COMPLIANCE WITH APPLICABLE REGULATIONS ON SITE AT ALL TIMES DURING THE EXECUTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL CONSTRUCTION PERMITS NOT FURNISHED BY THE OWNER, PRIOR TO THE START OF ANY CONSTRUCTION. ALL FEES AND PERMITS SHALL BE PAID FOR BY THE CONTRACTOR.
 - G. APPROVED PLANS SHALL BE KEPT IN A PLAN BOX. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF PLANS ON THE PREMISES IN GOOD CONDITION AT ALL TIMES. THIS SHALL INCLUDE ALL ADDENDA AND CHANGE ORDERS.
 - H. CONTRACTOR IS TO PROTECT ALL SITE FEATURES UNLESS OTHERWISE NOTED ON THE PLAN INCLUDING BUT NOT LIMITED TO CURBS, PAVEMENT, SIGNS, LANDSCAPED AREAS ETC., AND IS TO RESTORE ANY FEATURES THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER.
 - I. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL WHILE WORKING IN PUBLIC AND PRIVATE ROW OR ADJOINING PROPERTIES. ALL SIGNAGE AND TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATIONS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ANY APPLICABLE MASSDOT TRAFFIC CONTROL DESIGN CRITERIA, OR REQUIREMENTS OF THE CITY OF AMESBURY AS APPLICABLE.
 - J. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
 - K. TRUCKING ON OR ABOUT THE SITE WILL BE PERMITTED ONLY WITHIN REASONABLE LIMITS AND THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE PREMISES WITH EQUIPMENT AND MATERIALS. THE STORAGE SHALL BE CONFINED TO SUCH LIMITS AS MAY BE JOINTLY AGREED UPON BY THE OWNER AND CONTRACTOR.
 - L. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND LOCAL REGULATIONS AND REQUIREMENTS.
 - M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
 - N. THE CONTRACTOR SHALL NOT RESTRICT ACCESS TO ADJOINING AREAS OF THE PROPERTY DURING DEMOLITION OR CONSTRUCTION. ACCESS SHALL BE MAINTAINED SO AS NOT TO INTERRUPT NORMAL PEDESTRIAN MOVEMENTS TO ADJACENT FACILITIES. FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT, AND LABOR AS REQUIRED TO MAINTAIN ACCESS.
 - O. RESTORE ALL ACCESS ROADS, LANDSCAPED AREAS, AND SIDEWALKS OUTSIDE OF THE LIMIT OF WORK DAMAGED DURING CONSTRUCTION.
 - P. ALL NOTES APPLY TO ALL CONSTRUCTION PLANS.
- 1.3 EXISTING CONDITIONS, SURVEY, ELEVATIONS, & DIMENSIONS
- A. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DIMENSIONS AND ELEVATIONS NOTED IN THE CONTRACT DOCUMENTS AS (+/-) AND ALL FIELD CONDITIONS SHALL BE VERIFIED IN THE FIELD (VIF) BY THE CONTRACTOR PRIOR TO THE SUBMISSIONS OF SHOP DRAWINGS. UPON RECEIPT OF SHOP DRAWINGS, THE ENGINEER HAS THE RIGHT TO ASSUME THAT ALL FIELD DIMENSIONS, ELEVATIONS AND CONDITIONS HAVE BEEN VERIFIED BY THE CONTRACTOR AND THAT THE SHOP DRAWINGS ACCURATELY REFLECT SUCH VERIFICATIONS UNLESS STATED OTHERWISE ON THE SHOP DRAWINGS. CONTRACTOR SHALL SPECIFY COMPONENTS TO BE CUT TO FIT IN FIELD ON SHOP DRAWINGS.
 - B. EXISTING TOPOGRAPHIC AND SUBSURFACE UTILITY INFORMATION WITHIN THE LIMITS OF WORK ARE BASED UPON ELECTRONIC FILES, PREPARED BY BL COMPANIES IN OCTOBER 2021.
 - C. WETLAND DELINEATION PERFORMED BY LEC ENVIRONMENTAL CONSULTANTS IN SEPTEMBER 2021 AND IS SHOWN IN THE ELECTRONIC SURVEY FILE PREPARED BY BL COMPANIES.
 - D. ALL ELEVATIONS INDICATED ON PLANS ARE REFERENCED TO NAVD88 DATUM.
 - E. HORIZONTAL DATUM IS BASED ON MASS GRID SYSTEM, NAD 83.
 - F. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY STAMPED BY A REGISTERED LICENSED SURVEYOR IN THE COMMONWEALTH OF MASSACHUSETTS OF ALL THE IMPROVEMENTS WITHIN THESE CONSTRUCTION DOCUMENTS.
- 1.4 BUILDING CODES AND REFERENCED STANDARDS
- A. NATIONAL GRID ENVIRONMENTAL GUIDANCE, DOCUMENT NO. EG-303NE, DATED 06 AUGUST 2020.
- 1.5 QUALITY ASSURANCE
- A. THE CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LAWS, AND REGULATIONS OF THE CITY OF AMESBURY AND WITH ALL OTHER AUTHORITIES HAVING JURISDICTION. ALL SUCH REQUIREMENTS SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS HEREIN EXCEPT IN CASES WHERE THE REQUIREMENTS OF THE SPECIFICATIONS ARE MORE EXACTING OR STRINGENT.
 - B. TESTING OF MATERIALS AND INSPECTIONS OF INSTALLED WORK SHALL BE COMPLETED THROUGHOUT THE DURATION OF THE PROJECT, AS REQUIRED OR DIRECTED BY THE CIVIL EOR AND/OR THE CITY OF AMESBURY. THE CITY RESERVES THE RIGHT TO PERFORM INSPECTIONS AND TESTING AT ANY TIME DURING THE EXECUTION OF WORK. CONTRACTOR SHALL PROVIDE FREE AND SAFE ACCESS TO ALL RECORDS, MATERIAL STOCKPILES, AND FACILITIES FOR THE CIVIL EOR AND/OR CITY INSPECTORS.
 - C. THE TESTING AGENCY SHALL SUBMIT THE RESULTS OF ALL REQUIRED EARTHWORKS TESTING TO THE CIVIL EOR AND OWNER FOR REVIEW AND APPROVAL.

PART 2 - SITE PREPARATION AND TEMPORARY EROSION AND SEDIMENTATION CONTROL

- 2.1 SCOPE OF WORK (FOR REFERENCE ONLY, REFER TO PLANS)
- A. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THE DRAWINGS.
 - B. REMOVE EROSION AND SEDIMENTATION CONTROL MEASURES ONCE ALL SITE WORK IS COMPLETE AND FINAL GROUND COVER IS ESTABLISHED.
- 2.2 GENERAL
- A. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NATIONAL GRID'S ENVIRONMENTAL GUIDANCE (DOCUMENT NO. EG-303NE).
 - B. CONTRACTOR IS TO MAINTAIN EROSION CONTROL MEASURES IN GOOD CONDITION TO ENSURE PROPER EROSION CONTROL DURING WORK UNTIL AFTER LAWN/PAVEMENT/VEGETATION HAS BEEN ESTABLISHED IN GRADED AREAS.
 - C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS DURING CONSTRUCTION.
 - D. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, SHALL BE MAINTAINED DURING CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN-PLACE UNTIL SITE WORK IS COMPLETE AND FINAL GROUND COVER IS ESTABLISHED.
 - E. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SEDIMENT FILTER TUBE. THE LOCATION OF STOCKPILE AREAS MAY BE MODIFIED AS CONSTRUCTION PROGRESSES, HOWEVER MAY NOT BE LOCATED OR ON TOP OF ANY DRAINAGE OR UTILITY STRUCTURES, OR BELOW OVERHEAD UTILITIES. STOCKPILE LOCATIONS SHALL BE COORDINATED BY NATIONAL GRID.
 - F. IT IS RECOMMENDED THAT THE TOPS OF STOCKPILES BE COVERED IN SUCH A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THEM UNSUITABLE FOR FILL USE.
 - G. ALL DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR HAVE TEMPORARILY BEEN SUSPENDED FOR MORE THAN 14 DAYS.
 - H. A CATCH BASIN FILTER BAG SHALL BE INSTALLED IN EXISTING CATCH BASINS SUBJECT TO SEDIMENTATION. CONTRACTOR IS RESPONSIBLE TO CONTINUALLY MONITOR SEDIMENTATION FROM CONSTRUCTION ACTIVITY AND PROVIDE CATCH BASIN FILTER BAGS AS REQUIRED TO PREVENT SEDIMENTATION OF CATCH BASINS, WHETHER OR NOT THOSE CATCH BASINS ARE INDICATED HEREIN. INLET PROTECTION TO BE PROVIDED FOR THE DRAINAGE SYSTEM UNTIL ALL WORK HAS BEEN COMPLETED AND LAWNS ESTABLISHED.
 - I. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND CLEANED/REPAIRED AS NEEDED THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE WITHIN 24 HOURS AFTER A RAINFALL EVENT OF GREATER THAN 0.25 IN. OF RAINFALL WITHIN A 24 HOUR PERIOD.
 - J. THE CONTRACTOR SHALL KEEP ON-SITE AT ALL TIMES ADDITIONAL EXTRA SEDIMENT FILTER TUBE TO MITIGATE ANY EMERGENCY OR REPAIR CONDITION.
 - K. UNLESS OTHERWISE NOTED, ALL PROPOSED TEMPORARY SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL MATTING, INCLUDING AT THE TOE OF THE TEMPORARY SOE.
 - L. THE AREA OF ENTRANCE AND EXIT TO AND FROM THE CONSTRUCTION AREA SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ANY PUBLIC WAY OR BUFFER ZONE. ALL SEDIMENT SPILLED, DROPPED WASHED OR TRACKED ONTO A PUBLIC WAY MUST BE REMOVED IMMEDIATELY.
 - M. STOCKPILE OF TOPSOIL OR SUBSOIL SHALL BE SEEDED WITH ANNUAL RYE GRASS IF LEFT OVER 30 DAYS TO MINIMIZE SILTATION.

PART 3 - DEMOLITION, EARTHWORK, AND GRADING

- 3.1 SCOPE OF WORK (FOR REFERENCE ONLY, REFER TO PLANS)
- A. LOCATE ALL (E) UTILITY INFRASTRUCTURE WITHIN AREA(S) OF DEMOLITION.
 - B. REMOVE & DISPOSE (E) SURFACING AS INDICATED ON THE PLANS.
 - C. REMOVE DEMOLISHED MATERIALS, SURPLUS SOIL MATERIAL, AND WASTE MATERIALS, INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE THEM OFF SITE.
 - D. MAINTAIN/PROTECT (E) SITE FEATURES AND UTILITIES AS NOTED.
 - E. EXCAVATE FOR (P) UTILITIES.
 - F. COMPACT SUBGRADE AND INSTALL BACKFILL FOR (P) UTILITIES.
 - G. PERFORM FINE GRADING AND INSTALL PROPOSED SURFACE MATERIAL AS INDICATED ON THE PLANS.

3.2 GENERAL

- A. INSTALL ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO THE START OF ANY DEMOLITION/GRADING ACTIVITIES. REFER TO EROSION CONTROL PLAN FOR ADDITIONAL DETAILS.
- B. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE OWNER, AND UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY DIG-SAFE AT LEAST 72 HOURS PRIOR TO EXCAVATION. DIG-SAFE CAN BE CONTACTED AT 1-888-344-7233, FAX 1-800-322-4844.
- C. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. PROPOSED STRUCTURES AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- D. DO NOT INTERRUPT UTILITIES SERVING OWNER'S FACILITIES, OR OTHER FACILITIES UNLESS PERMITTED IN WRITING BY OWNER, UTILITY OWNER, AND OWNER OF FACILITIES BEING SERVED BY THE UTILITY. PROVIDE TEMPORARY UTILITY SERVICES AS REQUIRED.
- E. THE CONTRACTOR SHALL CLEAN UP THE CONSTRUCTION SITE DAILY AND THE SITE SHALL BE KEPT IN A NEAT AND ORDERLY CONDITION.
- F. REMOVE SURPLUS SOIL MATERIAL, CONCRETE, UNSUITABLE TOPSOIL, TRASH, AND OTHER DEBRIS AND LEGALLY DISPOSE OF THEM OFF SITE.
- G. PROTECT ALL OPEN TRENCHES AND EXCAVATIONS UNLESS IN AREAS OF ACTIVE CONSTRUCTION. PROVIDE ADEQUATE BRACING AND SHORING AS REQUIRED OF ALL EXCAVATIONS IN ACCORDANCE WITH ALL GOVERNING CODES AND REGULATIONS. SLOPE ALL EXCAVATIONS PER OSHA. CONTRACTOR TO OBTAIN ANY REQUIRED TRENCH OR EXCAVATION PERMIT AS APPLICABLE.
- H. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SUPPORT OF EXCAVATION (SOE). SUBMIT SOE DESIGN STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS TO THE EOR FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- I. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL EXISTING UTILITIES WITHIN PROPOSED AREAS OF EXCAVATION PRIOR TO CONSTRUCTION AND TAKE PRECAUTION TO NOT DAMAGE ANY EXISTING UTILITIES AS PART OF THE PROPOSED WORK.
- J. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL. IMMEDIATELY NOTIFY THE OWNER AND EOR SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER AND EOR.
- K. THE CONTRACTOR SHALL EXERCISE CARE WHEN OPERATING EQUIPMENT ADJACENT TO (E) STRUCTURES SO AS NOT TO CAUSE DAMAGE OR DISPLACEMENT. IF THE CONTRACTOR'S PLACEMENT AND COMPACTION OPERATIONS RESULT IN DAMAGE TO THE STRUCTURES, THE CONTRACTOR SHALL BE REQUIRED TO REPAIR ALL DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- L. EXCAVATE TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED. UNCLASSIFIED EXCAVATED MATERIALS MAY INCLUDE SOIL MATERIALS AND OBSTRUCTIONS. OBSTRUCTIONS MAY INCLUDE BUT ARE NOT LIMITED TO COBBLES, REINFORCED CONCRETE, BOULDERS, ETC.
- M. ALL MATERIAL TO BE PLACED IN MAXIMUM OF 6" LIFTS AND COMPACTED TO 95% (MINIMUM) OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER ASTM D698 BEFORE PLACING NEXT LIFT. UNIFORMLY MOISTEN OR AERATE EACH SUBSEQUENT BACKFILL SOIL LAYER BEFORE COMPACTION TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT. WHEN MOISTURE CONTENT IS EXCESSIVE, DEFER COMPACTION UNTIL THE MATERIAL HAS DRIED TO SUITABLE MOISTURE CONTENT. NATURAL DRYING MAY BE ACCELERATED BY MANIPULATION TO INCREASE THE RATE OF EVAPORATION, OR BY BLENDING SIMILAR MATERIALS FROM A DRY STOCKPILE. IF DRYING IS ACCOMPLISHED BY BLENDING IN A DRY MATERIAL, TAKE CARE NOT TO EXCEED THE SPECIFIED MAXIMUM LAYER THICKNESS FOR COMPACTION. REMOVE ANY EXCESS MATERIAL FROM THE LAYER BEFORE COMPACTION.
- N. PROPOSED GRADES TO BLEND SMOOTHLY WITH EXISTING GRADES.
- O. EXISTING GRADES SHALL BE MATCHED ALONG THE LIMITS OF CONSTRUCTION AND AS INDICATED ON THE PLANS.
- P. SOILS IMPORTED INTO THE SITE FOR BACKFILL SHALL BE CLEAN AND FREE OF ORGANIC MATERIALS.
- Q. NO SLOPE SHALL EXCEED A 3:1 SLOPE.
- R. CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORMWATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA.

PART 4 - UTILITIES

- 5.1 SCOPE OF WORK (FOR REFERENCE ONLY, REFER TO PLANS)
- A. PROTECT ALL (P) AND (E) UTILITIES DURING CONSTRUCTION.
 - B. INSTALL UTILITIES FOR PROPOSED SUBSTATION (DESIGN OF UTILITIES FOR SUBSTATION BY NATIONAL GRID).
- 5.2 GENERAL
- A. DESIGN, LAYOUT, AND INSTALLATION OF ALL EQUIPMENT AND UTILITIES RELATED TO THE TEMPORARY SUBSTATION IS BY NATIONAL GRID AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
 - B. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE (E) UTILITIES AND ANY AND ALL DAMAGE TO (E) UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PART 5 - MATERIALS AND PRODUCTS

GRAVEL	PER MHD M1.03.1
CRUSHED STONE	PER MHD M2.01.4 OR AASHTO NO. 57 STONE
SAND BEDDING	PER NATIONAL GRID REQUIREMENTS
CB FILTER BAG	CATCH BASIN FILTER BAG SHALL BE "SILTSACK" HIGH FLOW, MANUFACTURED BY SI GEOSOLUTIONS, ACF ENVIRONMENTAL, TERRAFIX GEOSYNTHETICS INC. OR APPROVED EQUAL.
SEDIMENT FILTER TUBE	SEDIMENT FILTER TUBE SHALL BE MULTI-FILAMENT, POLYPROPYLENE, W/ 100% STRENGTH FROM UV EXPOSURE AT 1000 HRS, MANUFACTURED BY FILTRESS, MVK SILT SOCK, GEI WORKS, OR APPROVED EQUAL.
SUITABLE BACKFILL	SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 IN. IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER. ONSITE MISCELLANEOUS FILL MAY BE USED AS BACKFILL UPON APPROVAL FROM ENGINEER OF RECORD.
FILTER FABRIC	NON-WOVEN GEOTEXTILE MEETING THE REQUIREMENTS OF AASHTO M288-06 CLASS 2.
WARNING TAPE	ACID- AND ALKALI-RESISTANT, POLYETHYLENE FILM MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, 6 IN. WIDE AND 4 MILS THICK.

*SUBMIT ALL PRODUCTS TO THE EOR FOR REVIEW AND APPROVAL, INCLUDING ANY PRODUCTS NOT SPECIFIED HEREIN.

ABBREVIATIONS

APPROX	APPROXIMATE
BM	BENCH MARK
(E)	EXISTING
E & S	EROSION AND SEDIMENTATION
EOR	ENGINEER OF RECORD
LOW	LIMIT OF WORK
MAX	MAXIMUM
ME	MATCH EXISTING
MIN	MINIMUM
NTS	NOT TO SCALE
(P)	PROPOSED
TEMP	TEMPORARY
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
WF	WETLAND FLAG

LEGEND

	APPROXIMATE LIMIT OF WORK
	WETLAND BUFFER
	PROPERTY LINE
	PROPERTY SETBACK
	WETLAND LIMITS
	(E) OVERHEAD POWER UTILITY LINES
	(E) CONTOUR
	(E) TREELINE
	(P) CHAIN LINK FENCE
	(P) SEDIMENT FILTER TUBE
	(P) CONTOUR
	(P) DEMO
	(P) CRUSHED STONE
	(P) GRAVEL



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No.	Date	Description	By

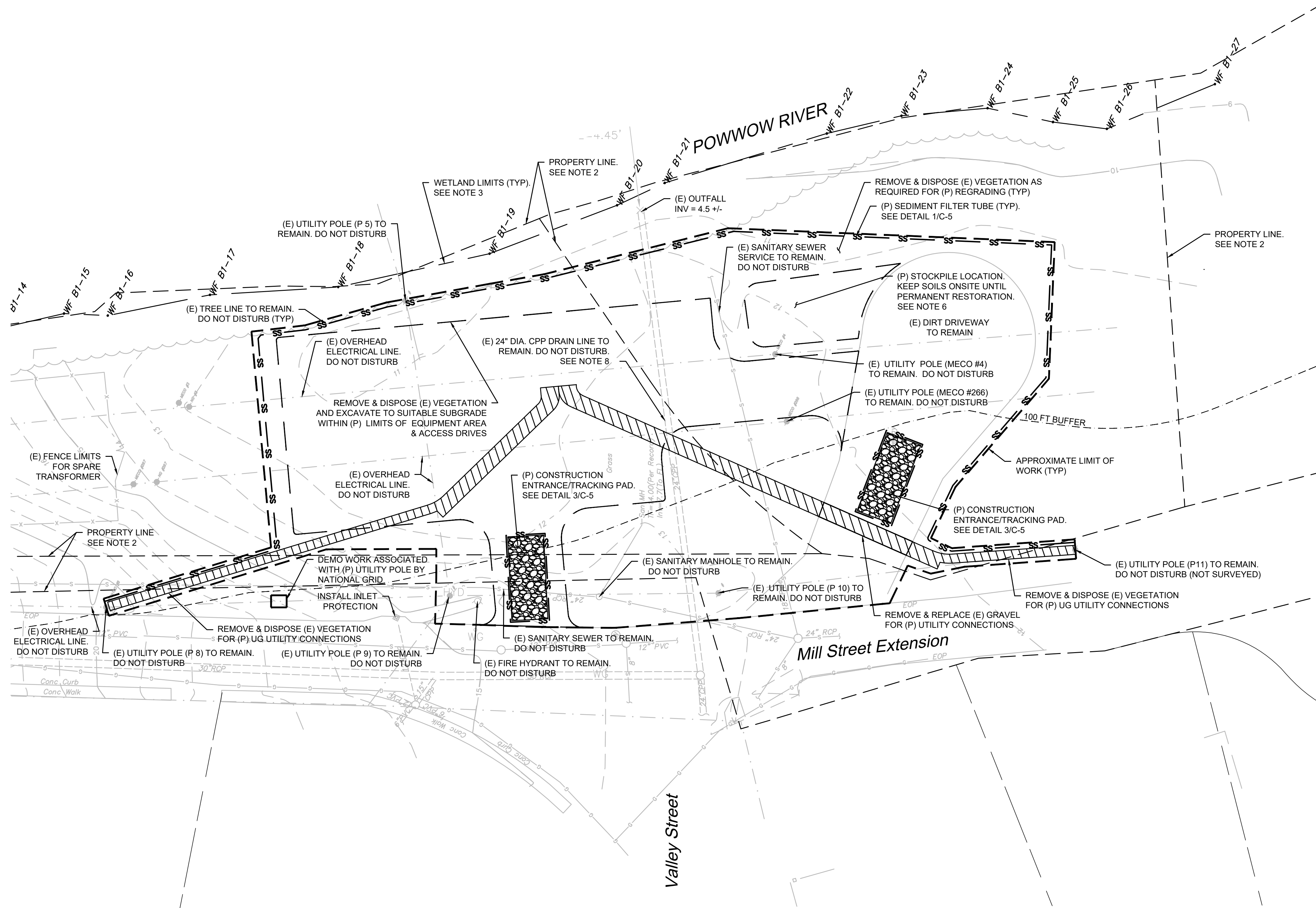
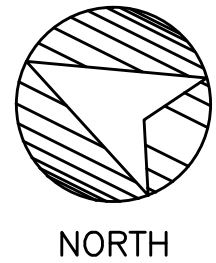
NATIONAL GRID
TEMPORARY SUBSTATION
0 & 14 MILL STREET
AMESBURY, MA

Project

CIVIL
GENERAL NOTES

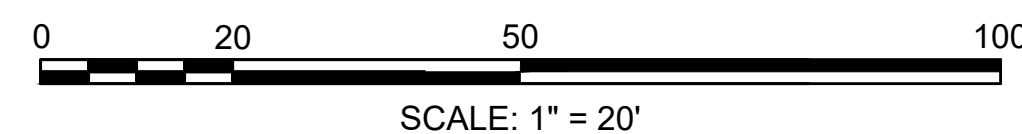
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Project No. 211340.01	Checked CAC	Date 09/09/2025
Drawn BA	Approved SPD	Scale NTS
		Drawing No. C-0
Seal		09/09/2025



GENERAL NOTES:

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- CONTRACTOR SHALL NOT STOCKPILE MATERIAL BELOW OVERHEAD UTILITIES OR AT LOCATIONS THAT MAY CAUSE DAMAGE TO OTHER EXISTING STRUCTURES OR UTILITIES. STOCKPILE LOCATIONS ARE SUBJECT TO CHANGE AND SHALL BE COORDINATED BY NATIONAL GRID. SEE C-0 FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS FOR WORK WITHIN THE RIGHT OF WAY.
- CONTRACTOR SHALL VERIFY LOCATION OF EXISTING DRAIN LINE IN FIELD PRIOR TO FENCE INSTALLATION. NOTIFY EOR OF ANY DISCREPANCIES.
- RESTORATION WILL INCLUDE THE REMOVAL OF INSTALLED MATERIAL AND RESTORING TO PRE-CONSTRUCTION CONDITION.



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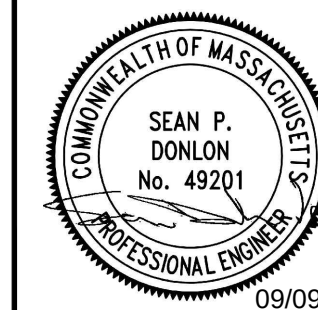
NATIONAL GRID TEMPORARY SUBSTATION 0 & 14 MILL STREET AMESBURY, MA

Project

DEMO, SITE PREP AND E&S PLAN

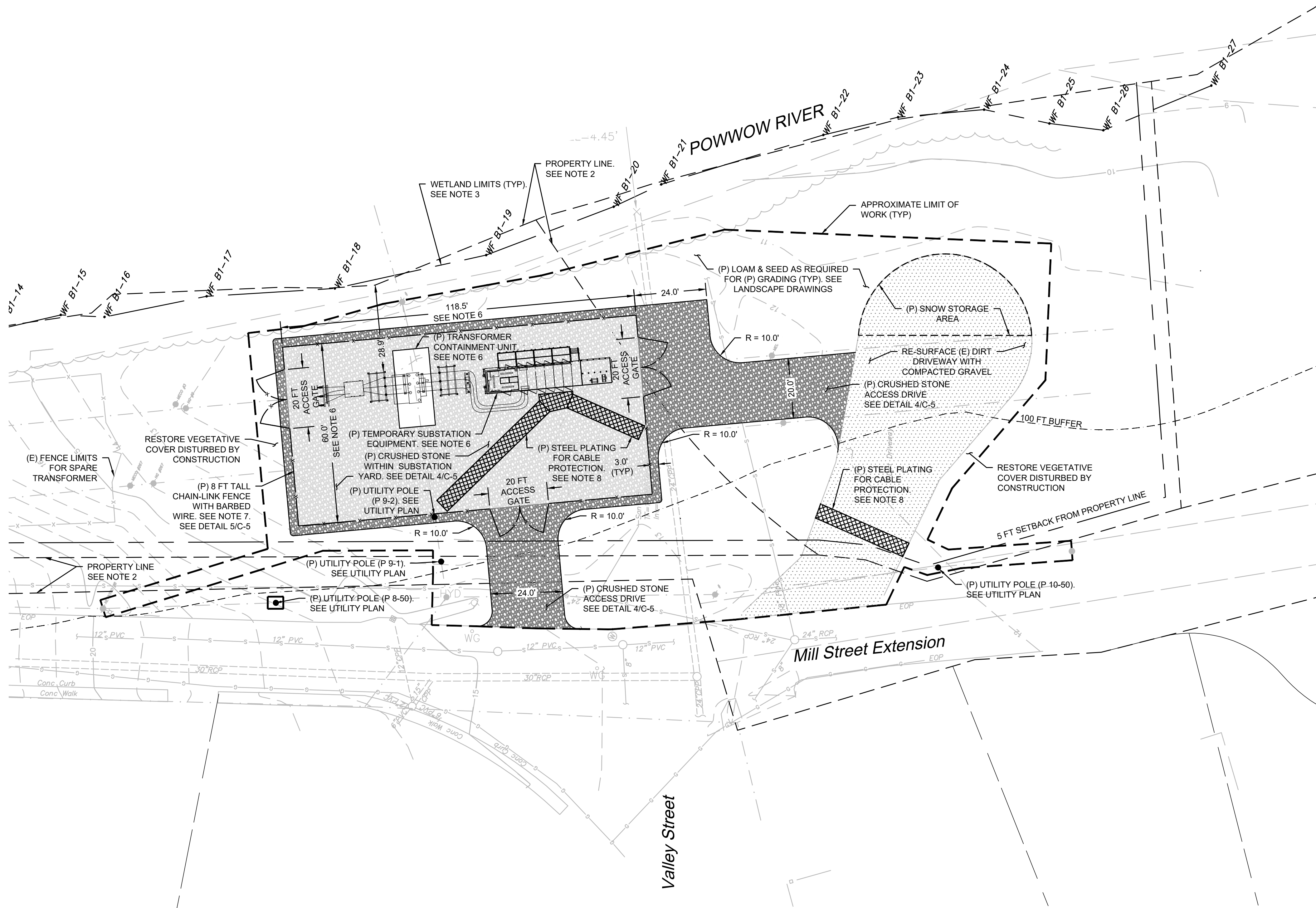
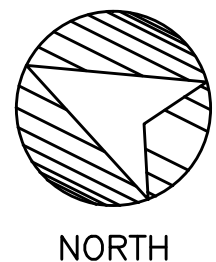
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Project No. 211340.01	Checked CAC	Date 09/09/2025
Drawn BA	Approved SPD	Scale AS SHOWN



Drawing No.

C-1

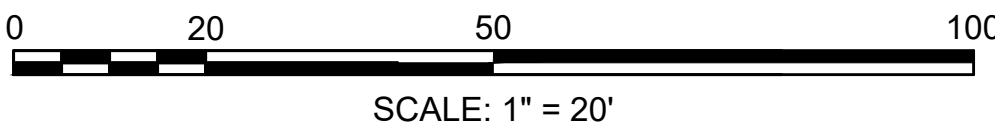


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- OVERALL DIMENSIONS OF TEMPORARY SUBSTATION, EQUIPMENT LAYOUT, EQUIPMENT FOUNDATIONS/PADS, AND CONTAINMENT UNIT REQUIREMENTS AND SIZING ARE BY NATIONAL GRID AND SHOWN FOR REFERENCE ONLY. CONTAINMENT UNIT INCLUDES A HYDROCARBON FILTER STOP VALVE.
- (P) CHAIN LINK FENCE, GATES, AND APPURTENANCES TO BE CONSTRUCTED PER NATIONAL GRID STANDARDS AND REQUIREMENTS.
- STEEL PLATING REQUIREMENTS FOR UNDERGROUND CABLE PROTECTION ARE BY NATIONAL GRID.
- CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS FOR WORK WITHIN THE RIGHT OF WAY.

APPLICABLE ZONING REGULATIONS		
ZONING DISTRICT	CENTRAL INDUSTRIAL (IC)	
	REQUIRED	PROVIDED
LOT AREA (SF)	40,000	SEE NOTE 2
FRONT YARD (FT)	25	51 FT
SIDE YARD (SOUTH, FT)	20	186 FT. SEE NOTE 4
SIDE YARD (NORTH, FT)	20	390 FT +/-
REAR YARD (FT)	40	28.9 FT. SEE NOTE 5
OPEN SPACE (%)	40	53% SEE NOTE 6

- NOTES:**
- ZONING REGULATIONS TABLE PER THE CITY OF AMESBURY MASSACHUSETTS ZONING ORDINANCE AND MAP ADOPTED 12 APRIL 1971 WITH REVISIONS THROUGH 30 APRIL 2025, TABLE OF DIMENSIONAL AND DENSITY REGULATIONS (2009-060)(2018-056).
 - LOT SIZES ARE NOT BEING ALTERED AS PART OF THIS PROJECT. BASED ON THE PLAN TITLED "BOUNDARY PLAN OF LAND MILL STREET SUBSTATION," DATED 02 FEBRUARY 2022, THE LOT SIZES APPLICABLE TO ZONING REVIEW ARE AS FOLLOWS:
LOT 53-121: 48,313 SF +/-
LOT 53-123: 24,576 SF +/-
 - ALL DIMENSIONS INDICATED ARE FROM PROPERTY LINE TO NEAREST FACE OF ABOVE GROUND SUBSTATION EQUIPMENT.
 - DIMENSION INDICATED IS FROM SOUTHERN MOST (SIDE) PROPERTY LINE. THE INDICATED DIMENSION ASSUMES THE PROPERTY LINE SEPARATING THE TWO PARCELS OWNED BY NATIONAL GRID IS NOT APPLICABLE TO THIS SETBACK.
 - THE PROPOSED LAYOUT WILL REQUIRE A VARIANCE FROM THE APPLICABLE REAR SETBACK.
 - PERCENT OPEN SPACE IS CALCULATED FOR THE TOTAL AREA OF LOTS 53-121 & 53-123 AND IS BASED ON THE BOUNDARY SURVEY (BY OTHERS), THE PROPOSED LAYOUT FOR THE TEMPORARY SUBSTATION, AND AERIAL IMAGERY.



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NATIONAL GRID TEMPORARY SUBSTATION 0 & 14 MILL STREET AMESBURY, MA

Project

SITE PLAN

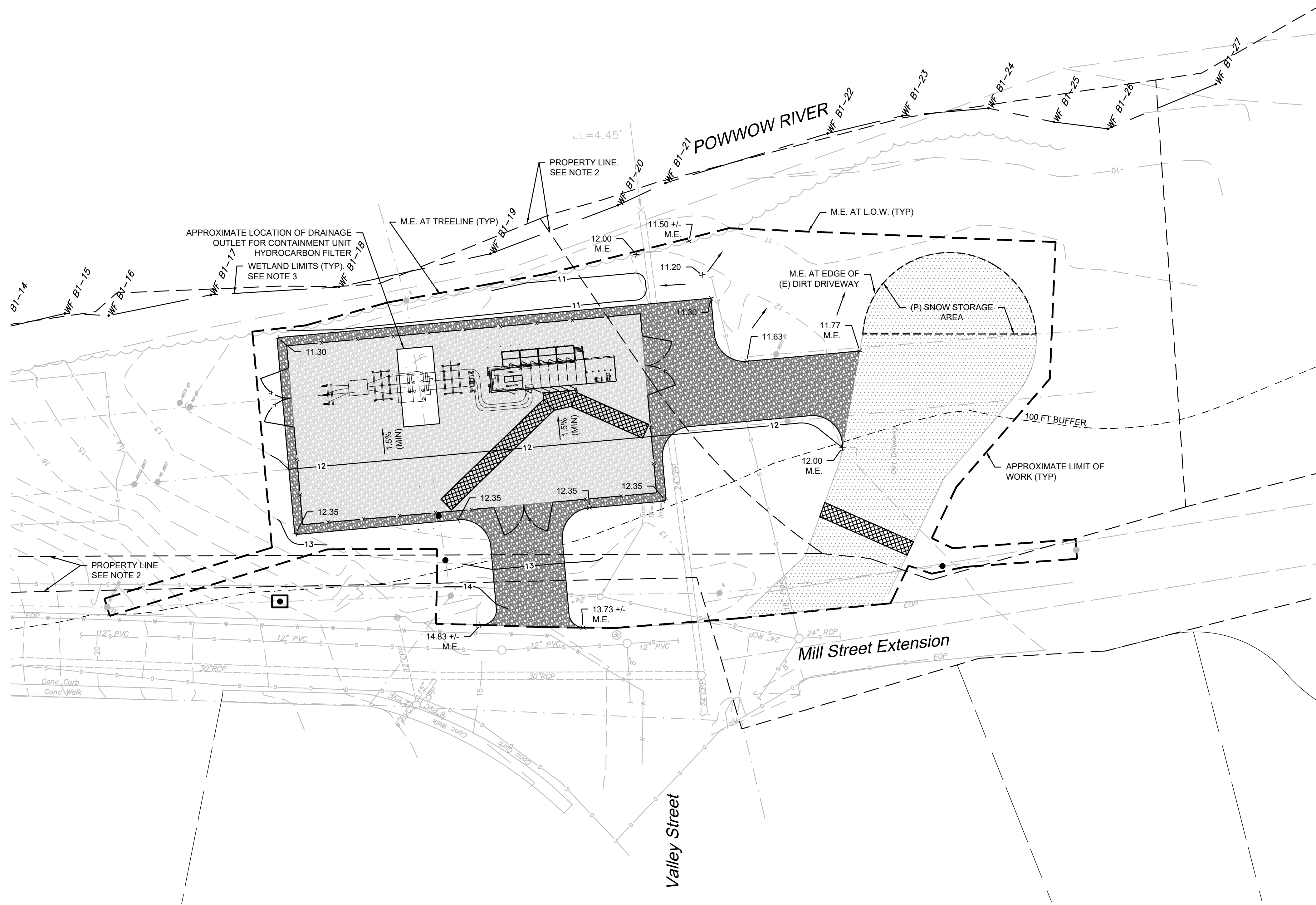
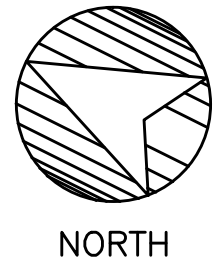
Drawing Title

Project No. 211340.01	Checked CAC	Date 09/09/2025
Drawn BA	Approved SPD	Scale AS SHOWN



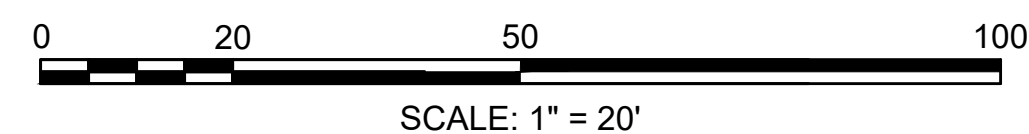
Drawing No.

C-2



GENERAL NOTES:

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6. CONTRACTOR SHALL OBTAIN APPLICABLE PERMITS FOR WORK WITHIN THE RIGHT OF WAY.



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**NATIONAL GRID
TEMPORARY SUBSTATION
0 & 14 MILL STREET
AMESBURY, MA**

Project

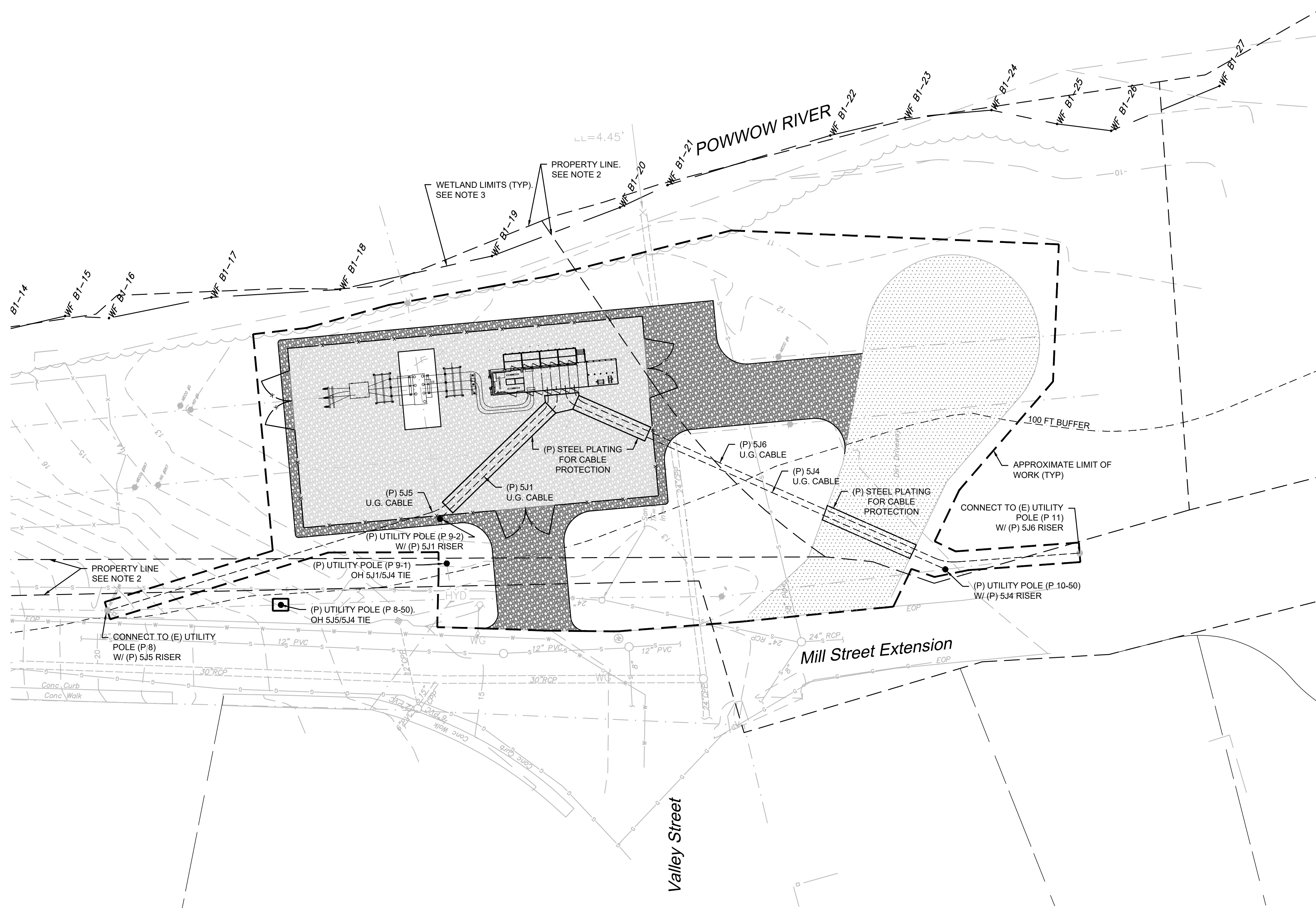
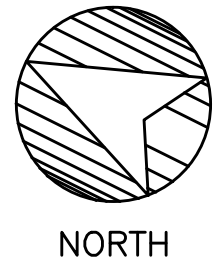
**GRADING AND
DRAINAGE PLAN**

Drawing Title

Project No. 211340.01	Checked CAC	Date 09/09/2025
Drawn BA	Approved SPD	Scale AS SHOWN

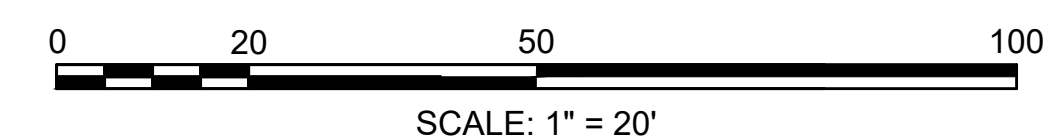


C-3



GENERAL NOTES:

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- PROPOSED UTILITY DESIGN, UTILITY LAYOUT, AND ASSOCIATED STEEL PLATING IS BY NATIONAL GRID AND SHOWN FOR REFERENCE ONLY. SEE DETAIL 6/C-5 FOR UTILITY TRENCH REQUIREMENTS.**
- MATERIAL EXCAVATED FOR UNDERGROUND CABLES SHALL BE BACKFILLED INTO TRENCH WITH THE EXCEPTION OF NEW BEDDING MATERIAL. SURPLUS MATERIAL SHALL BE RE-USED ON SITE.
- CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS FOR WORK WITHIN THE RIGHT OF WAY.



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**NATIONAL GRID
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0 & 14 MILL STREET
AMESBURY, MA

Project

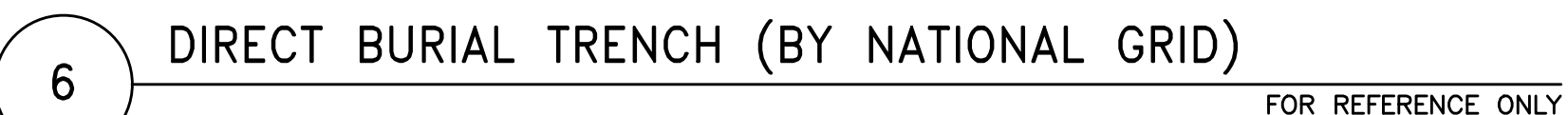
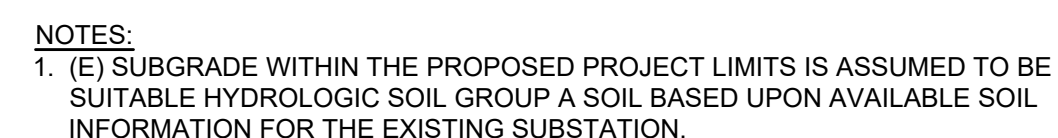
UTILITY PLAN

Drawing Title

Project No. 211340.01	Checked CAC	Date 09/09/2025
Drawn BA	Approved SPD	Scale AS SHOWN



C-4



 09/09/2025	Drawing No. C-5
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C-5



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HATCH

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A	09/09/25	ISSUED FOR PERMIT	JB
No.	Date	Description	By

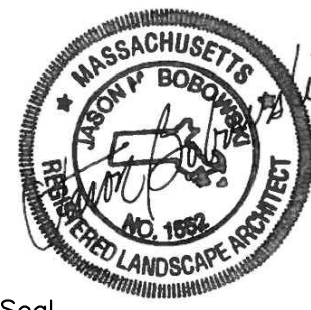
NATIONAL GRID
TEMPORARY SUBSTATION
0 & 14 MILL STREET
AMESBURY, MA

Project

PLANTING
PLAN

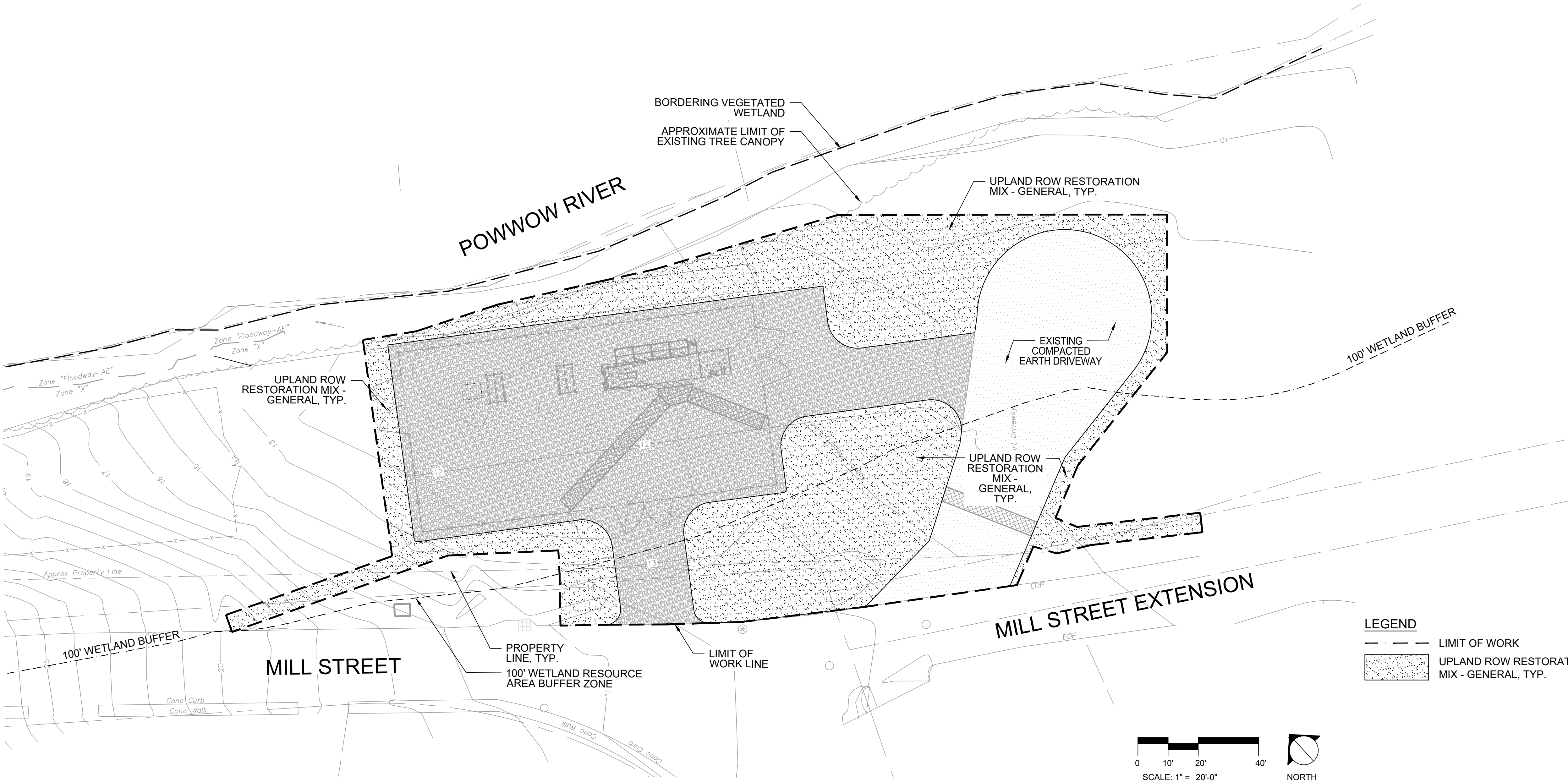
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Project No. H-367991	Checked AK	Date 09/09/2025
Drawn CCH	Approved AK	Scale AS NOTED



Drawing No.

L-1



PLANTING NOTES:

- SEE SHEET C-0 FOR GENERAL NOTES.
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- SEED ALL DISTURBED AREAS WITH APPROVED SEED MIX.
- NO SEEDING SHALL BE APPLIED PRIOR TO ACCEPTANCE OF FINAL GRADING BY THE OWNER'S REPRESENTATIVE.
- WATERING OF SEEDED AREAS, SHALL OCCUR AT THE TIME OF SEEDING AND CONTINUE AS OUTLINED IN THE CONTRACT DOCUMENTS.

SEED MIX:

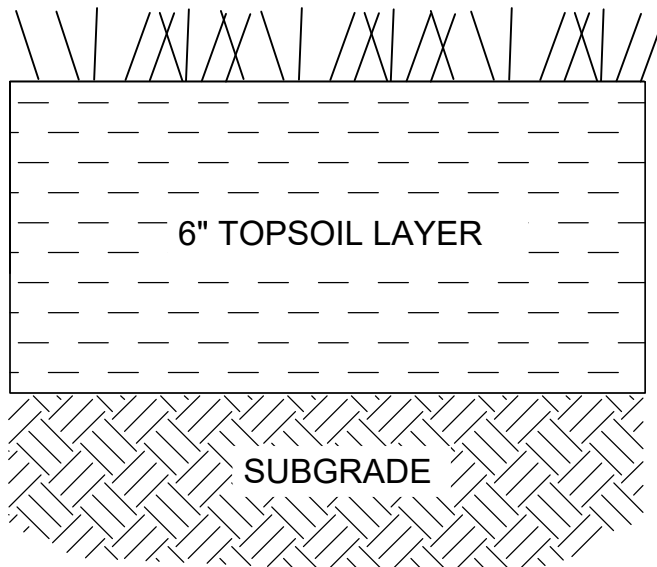
REFER TO DOC.NO.: EG-303NE

UPLAND ROW RESTORATION MIX - GENERAL

Species Composition Options:
Andropogon gerardii; Niagara Big Bluestem
Schizachyrium scoparium; Little Bluestem
Elymus Canadensis; Canada Wild Rye
Elymus virginicus; Virginia Wildrye
Lolium multiflorum; Annual Ryegrass
Sorghastrum nutans; Indiangrass
Chamaecrista fasciculata; Partridge Pea
Desmodium canadense; Showy Tick Trefoil
Helipopsis helianthoides; Ox-Eye Sunflower
Panicum virgatum; Switchgrass
Rudbeckia hirta; Black Eyed Susan
Poa palustris; Fowl Bluegrass
Agrostis perennans; Upland Bentgrass
Agrostis alba; Redtop
Festuca rubra; Red Fescue
Lotus corniculatus; Birds-Foot Trefoil
Chrysanthemum leucanthem; Ox-Eye Daisy
Aster novae - angliae; New England Aster

Example Seed Mixes

- Native Upland wildlife forage and Cover Meadow Mix - Ernst Conservation Seeds (ERNMX-123)
 - Eastern Ecotype Native Grass Mix - Ernst Conservation Seeds (ERNMX - 177)
 - New England Native Warm Season Grass Mix - New England Wetland Plants, Inc.
 - New England Logging Road Mix - New England Wetland Plants, Inc.
 - Northeast Upland Wildflower/ Restoration Erosion Mix - Southern Tier Consulting (STCMX-2)
- Grass varieties shall be within the top 50 percent and 25 percent respectively, of varieties tested in National Turfgrass Evaluation Program, or currently recommended as low maintenance varieties by University of Massachusetts or the University of Rhode Island.
 - Seeding rate shall be 30 pounds per acre.



- TOPSOIL NOTE:
- UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS, ALL DISTURBED AREAS SHALL BE DECOMPACTED AND RESTORED WITH 6" OF TOPSOIL, SEED AND FERTILIZER.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATERING REQUIRED TO RESTORE DISTURBED AREAS.

1 Topsoil Restoration
SCALE: NTS