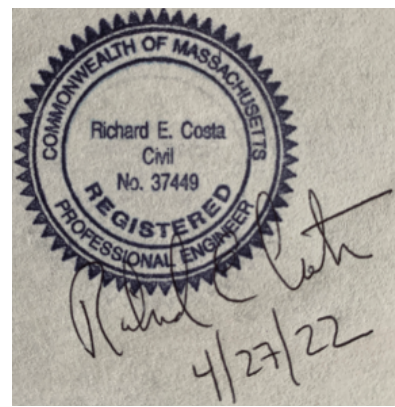
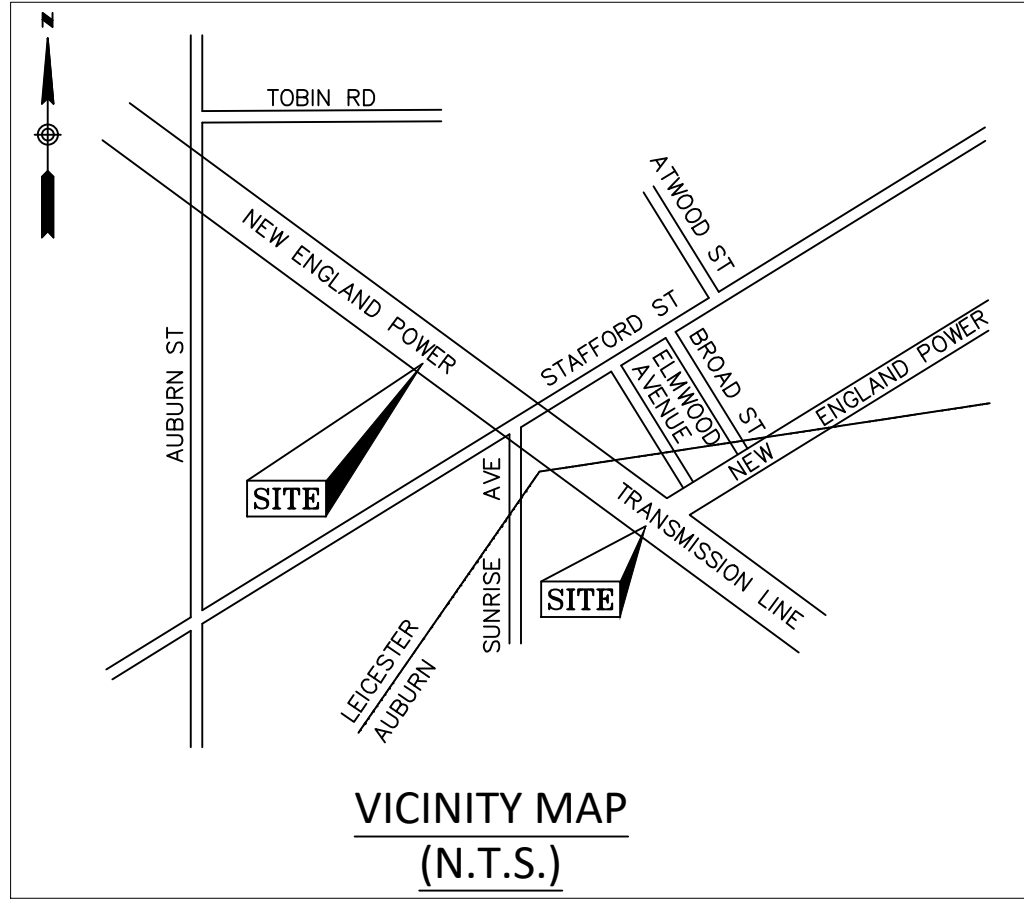


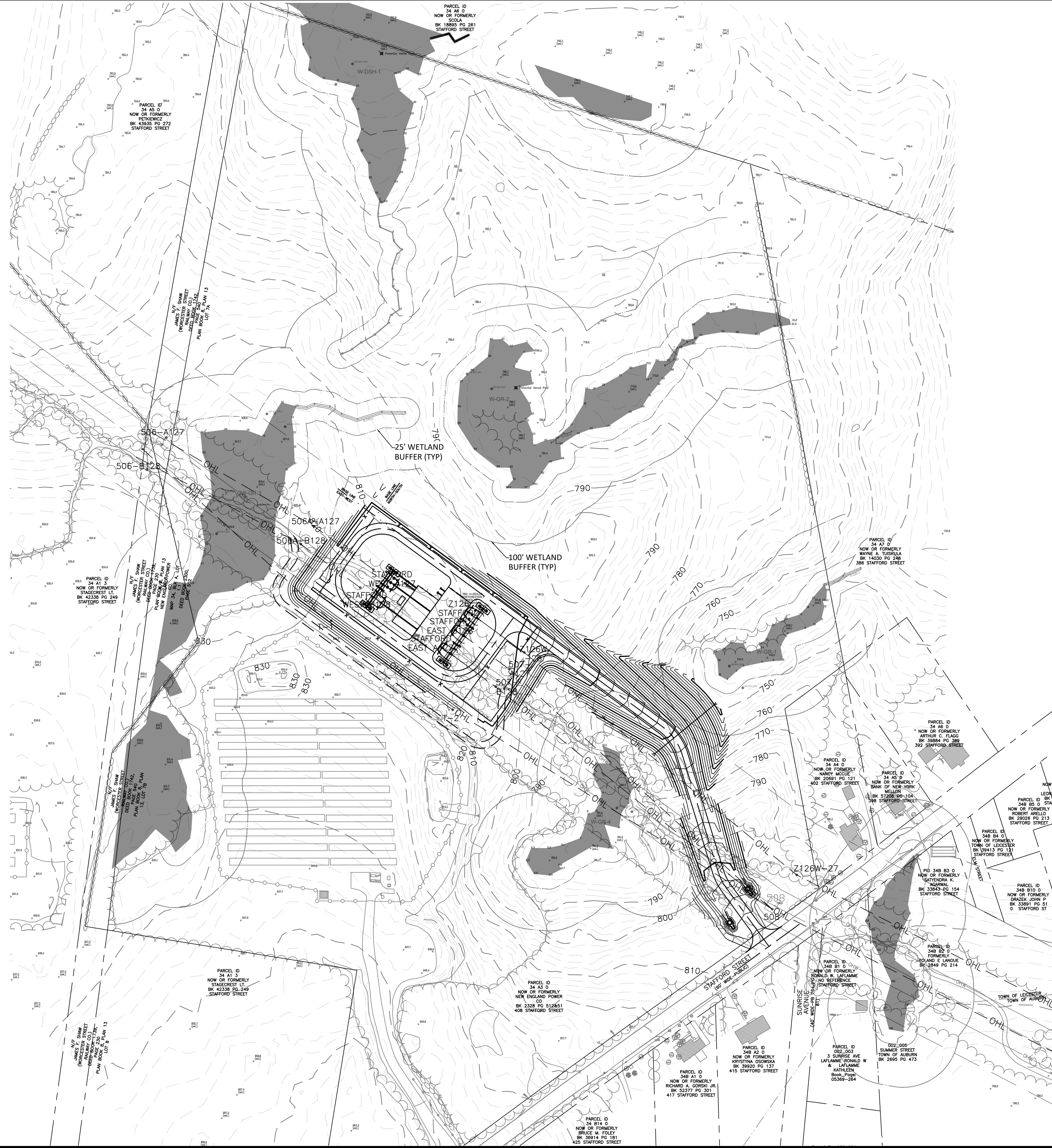
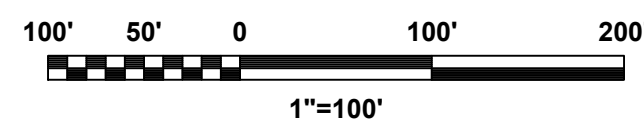
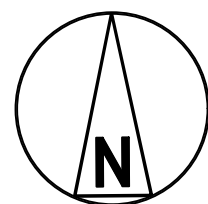
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16121391



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INCHES ON ORIGINAL

NOTES

- TOPOGRAPHIC SURVEY PERFORMED BY WSP USA, INC. DATED 02/07/2020. HORIZONTAL DATUM - NAD 83 MASSACHUSETTS STATE PLANE COORDINATE SYSTEM MAINLAND ZONE, U.S. SURVEY FEET. VERTICAL DATUM NAVD 88, U.S. SURVEY FEET.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION BY CONTACTING 811.

LEGEND

- CBDH □ CONCRETE BOUND W/ DRILL HOLE
- CB □ CONCRETE BOUND
- DPH ⊙ DRILL HOLE FOUND
- IPF ⊙ IRON PIPE FOUND
- ∅ UTILITY POLE
- ⊙ UTILITY POLE WITH LIGHT
- POST
- × 863.2 SPOT ELEVATION
- 🌳 DECIDUOUS TREE
- 🌲 CONIFER TREE
- 🌿 SHRUB
- DI DROP INLET ELEVATION
- INV PIPE INVERT ELEVATION
- NPV NO PIPED VISIBLE
- ⊕ TEMP. BENCHMARK
- 🪨 LANDSCAPE BOULDER
- ⊕ WATER WELL
- 🗑️ CATCH BASIN
- CATCH BASIN DROP INLET
- ◁ CULVERT
- ☆ LIGHT POLE
- BC BITUMINOUS CURBING
- BIT BITUMINOUS PAVEMENT
- CB CATCH BASIN
- CLF CHAIN LINK FENCE
- CM CORRUGATED METAL PIPE
- CNO COULD NOT OPEN
- GUARDRAIL LINES
- - - ROADWAY CENTERLINES
- ROADWAYS AND PARKING LINES
- SECURITY FENCE AND GATE LINES
- - - EXISTING MAJOR CONTOUR LINES
- - - EXISTING MINOR CONTOUR LINES
- FINISH GRADE CONTOUR LINES
- 🌳 EXISTING VEGETATION
- 🌳 EXISTING WETLANDS

ISSUED FOR PERMITTING

SHEET REFERENCE

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- H121394 - SURFACE & FENCING PLAN
- H121395 - ACCESS ROAD PLAN & PROFILE
- H121396 - GRADING AND DRAINAGE DETAILS
- H121397 - EROSION CONTROL FENCE
- H121398 - CONSTRUCTION DETAILS
- H122297 - LANDSCAPING PLAN
- H122298 - SITE PAD CROSS-SECTIONS

VERSION	3
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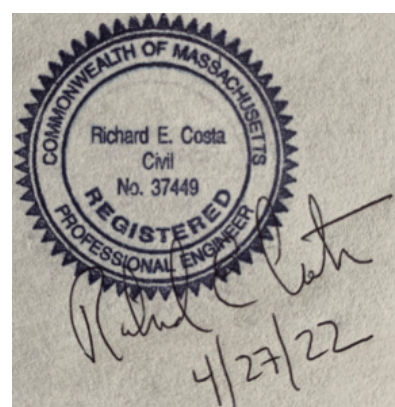
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4		
5		
6		
7		

REVIEWED BY: MEY/BJ	DATE: 4/21/22
REVIEWED BY: DUK/BJ	DATE: 4/21/22
APPROVED BY: RC/NS	DATE: 4/21/22
SCALE: 1" = 100'-0"	
SHEET: 1	OF: 10
INDEX:	

STAFFORD STREET SUBSTATION
EXISTING CONDITIONS

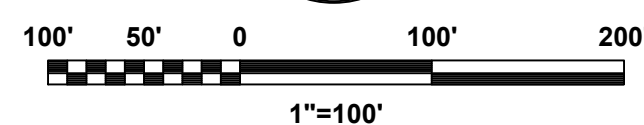
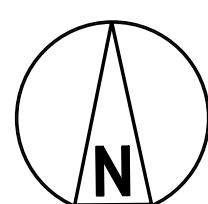
H121391

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INCHES ON ORIGINAL

NOTES

1. THE INTENT OF THIS PLAN IS TO SHOW THE LAND AND EASEMENTS OWNED BY NEW ENGLAND POWER COMPANY.
2. TOPOGRAPHY AND PHOTOGRAMMETRY SHOWN ON THIS PLAN WERE COMPILED FROM AERIAL PHOTOS DATED APRIL 17TH, 2017.
3. PROPERTY BOUNDARY AND WETLAND FLAG LOCATIONS SHOWN ON THIS PLAN WERE PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP BETWEEN JANUARY 9TH, 2015 AND JANUARY 26TH, 2020.
4. THE HORIZONTAL DATUM SHOWN HEREON IS BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE, NORTH AMERICAN DATUM OF 1983.
5. THE VERTICAL DATUM SHOWN HEREON REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988.
6. WETLANDS WERE DELINEATED BY TRC IN NOVEMBER 2019. WETLAND FLAGS WERE LOCATED WITH SUB-METER ACCURATE GPS.

LEGEND

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- FINISH GRADE CONTOUR LINES
- ~ EXISTING VEGETATION
- EXISTING WETLANDS

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SHEET REFERENCE

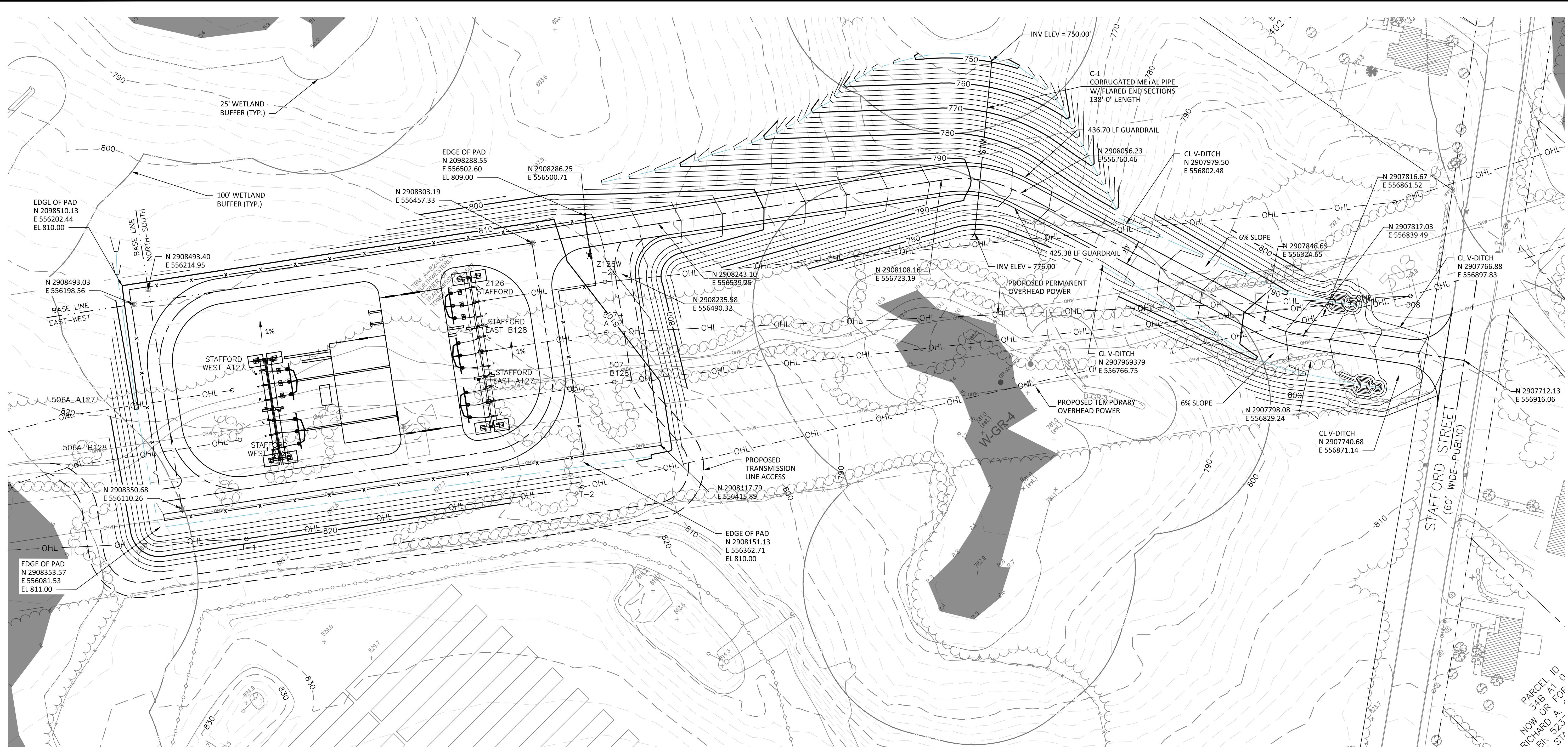
- H121391 - EXISTING CONDITIONS
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REVISION	DATE	DESCRIPTION	ISSUED FOR PERMITTING
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4			
5			
6			
7			

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STAFFORD STREET SUBSTATION
PROPOSED SITE PLAN

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INLET AND OUTLET PROTECTION RIP RAP TABLE

CULVERT NO.	INLET L	OUTLET L	INLET T	OUTLET T	INLET W	OUTLET W	INLET D50	OUTLET D50	REMARKS
C-1	15'-0"	15'-0"	1'-6"	1'-6"	9'-0"	9'-0"	-	-	SEE NOTE 5 ON H121394

- NOTES:**
- TOPOGRAPHIC SURVEY PERFORMED BY WSP USA, INC. DATED 02/07/2020. HORIZONTAL DATUM - NAD 83 MASSACHUSETTS STATE PLANE COORDINATE SYSTEM MAINLAND ZONE, U.S. SURVEY FEET. VERTICAL DATUM - NAVD 88, U.S. SURVEY FEET.
 - CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION BY CONTACTING 811.
 - ALL SIDE SLOPES SHALL BE 2(H): 1(V) OR FLATTER.
 - CONTOURS AND SPOT ELEVATIONS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT MATERIAL THICKNESS TO OBTAIN SUBGRADE ELEVATIONS.
 - SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D1557 AT A MAXIMUM OF +/- 3% OPTIMUM MOISTURE CONTENT. FILL MATERIAL SHALL BE CONSISTENT WITH ONSITE SOILS CONSISTING OF A MIX OF SAND AND GRAVEL.
 - GUARD RAIL SHALL BE TL-2 GUARD RAIL SYSTEM. SEE MASSACHUSETTS DOT DRAWINGS 400.1.0, 400.1.2, 400.1.3, 400.1.4, AND 400.1.5 FOR GUARD RAIL DETAIL. 826.08 TOTAL LF GUARDRAIL.
 - ALL LOOSE SOIL, TOPSOIL, PEAT, AND FOREST SHALL BE REMOVED FROM FILL AREAS BEFORE PLACING FILL. THICKNESS OF REMOVAL LAYER IS EXPECTED TO BE IN THE RANGE OF 3 TO 6 INCHES.

LEGEND

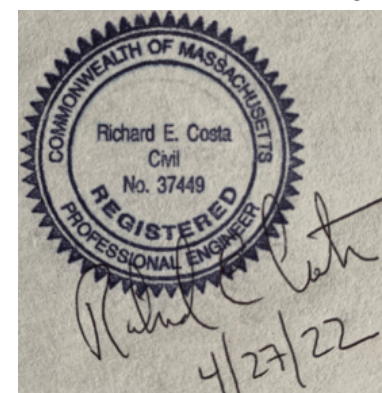
- GUARDRAIL LINES
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- ROADWAYS AND PARKING LINES
- SECURITY FENCE AND GATE LINES
- EXISTING MAJOR CONTOUR LINES
- EXISTING MINOR CONTOUR LINES
- FINISH GRADE CONTOUR LINES
- EXISTING VEGETATION
- EXISTING WETLANDS

CULVERT TABLE

CULVERT NO.	CENTERLINE COORDINATES				LENGTH (FT)	INLET INV ELEVATION	OUTLET INV ELEVATION	END TYPE	PIPE DIAMETER	NUMBER OF BARRELS	PIPE MATERIAL	REMARKS
	INLET END		OUTLET END									
	NORTH	EAST	NORTH	EAST								
C-1	2,908.059.45	556.712.11	2,908.147.02	556.818.77	138'-0"	776.00	750.00	PROJECTING	36"	1	CMP	

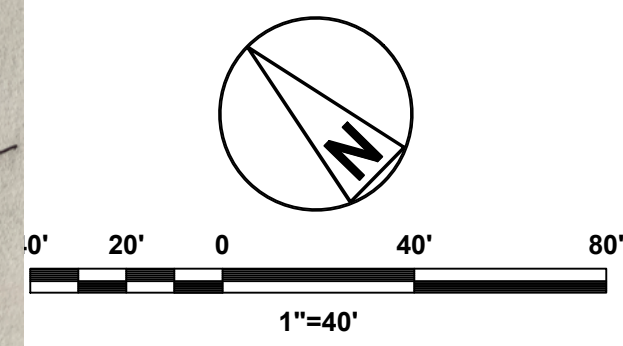
Volume Summary

Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
AR-1 (Vols)	full	1.0000	1.0000	175660.4004	25066.8864	29940.3027	4873.4164<-Fill>



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- H122298 - SITE PAD CROSS-SECTIONS

STAFFORD STREET SUBSTATION
GRADING & DRAINAGE PLAN

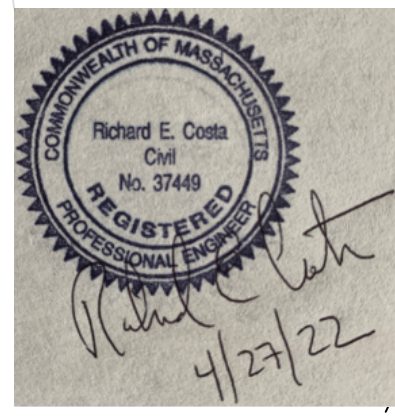
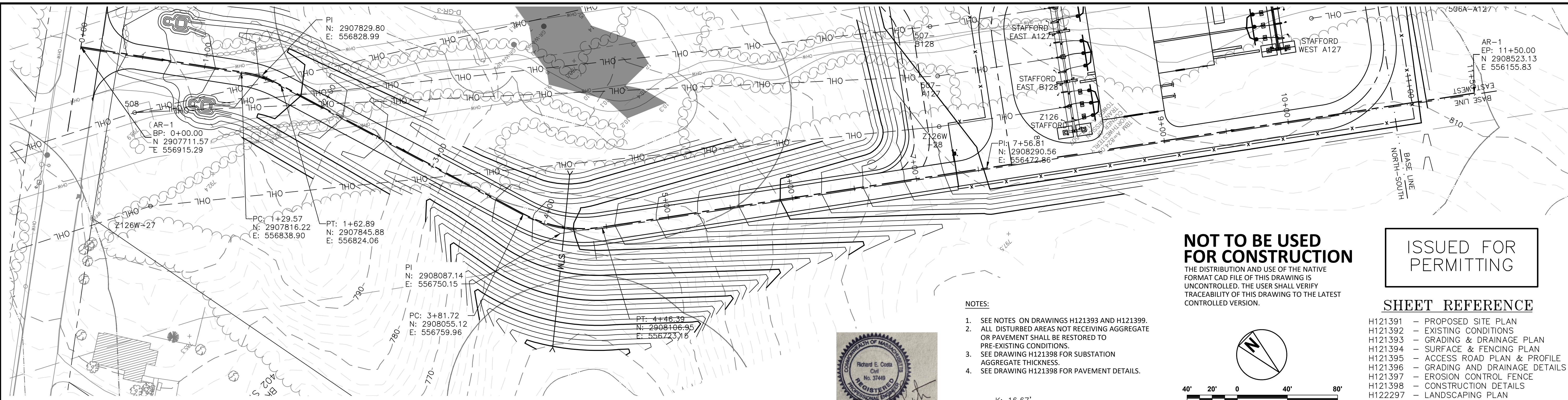
H121393

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PARCEL ID: 345 A1 C
 NOW OR 323 A, FOR C 517

INCHES ON ORIGINAL

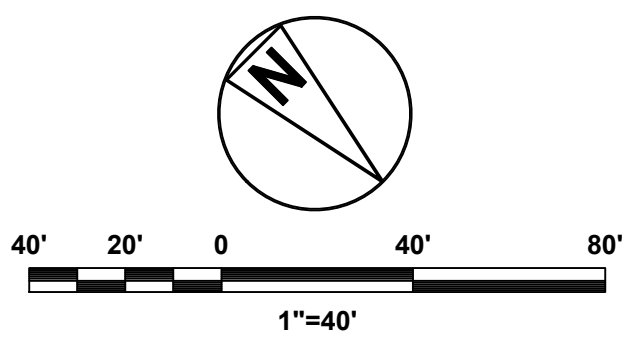
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- NOTES:
- SEE NOTES ON DRAWINGS H121393 AND H121399.
 - ALL DISTURBED AREAS NOT RECEIVING AGGREGATE OR PAVEMENT SHALL BE RESTORED TO PRE-EXISTING CONDITIONS.
 - SEE DRAWING H121398 FOR SUBSTATION AGGREGATE THICKNESS.
 - SEE DRAWING H121398 FOR PAVEMENT DETAILS.

NOT TO BE USED FOR CONSTRUCTION

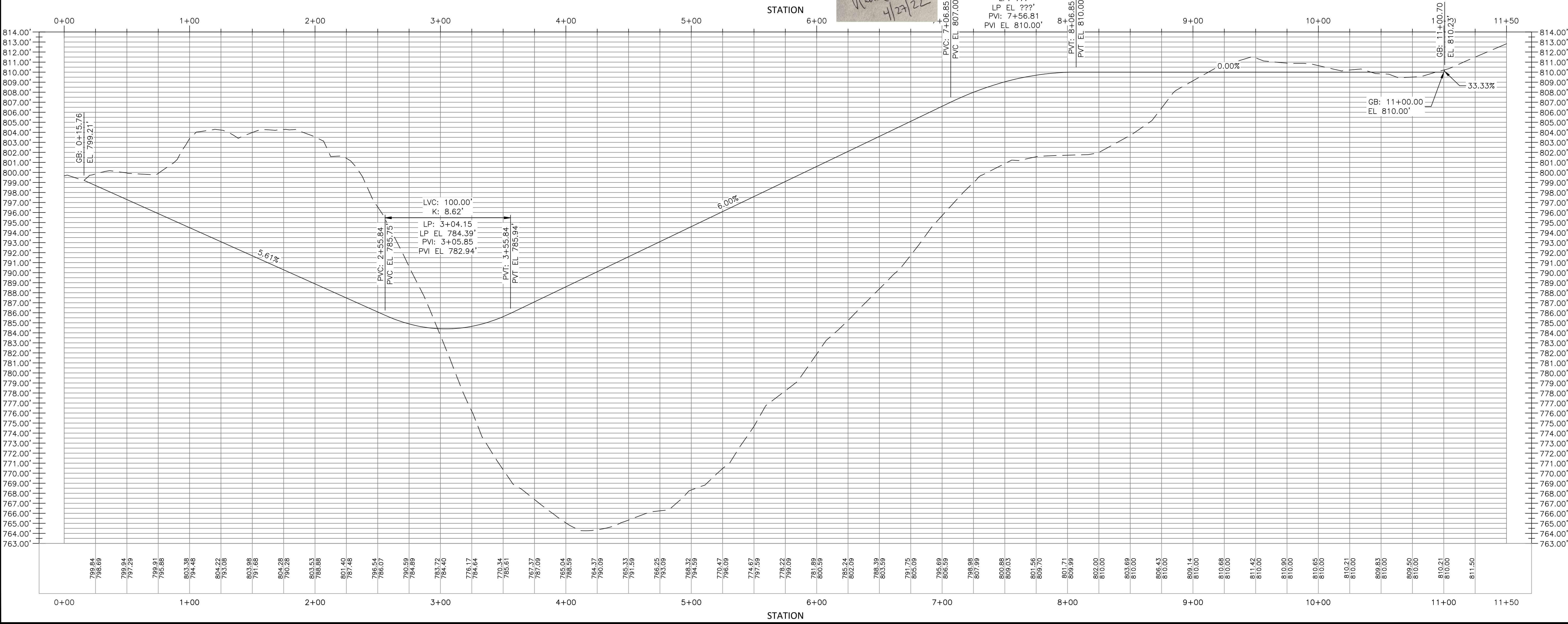
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STAFFORD STREET SUBSTATION

ACCESS ROAD PLAN & PROFILE

nationalgrid

SCALE 1" = 40'-0"
SHEET 5 OF 10
INDEX

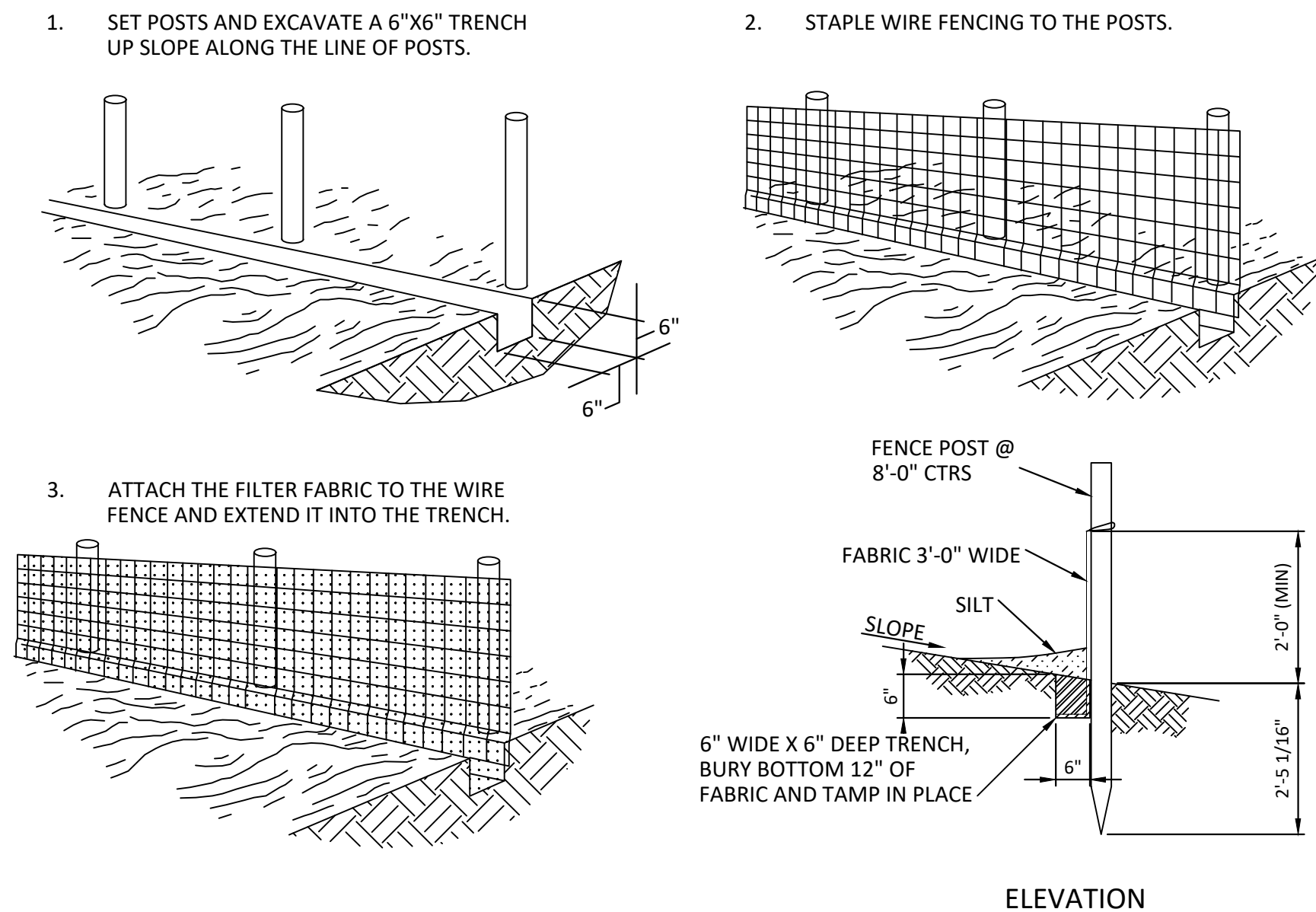
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3

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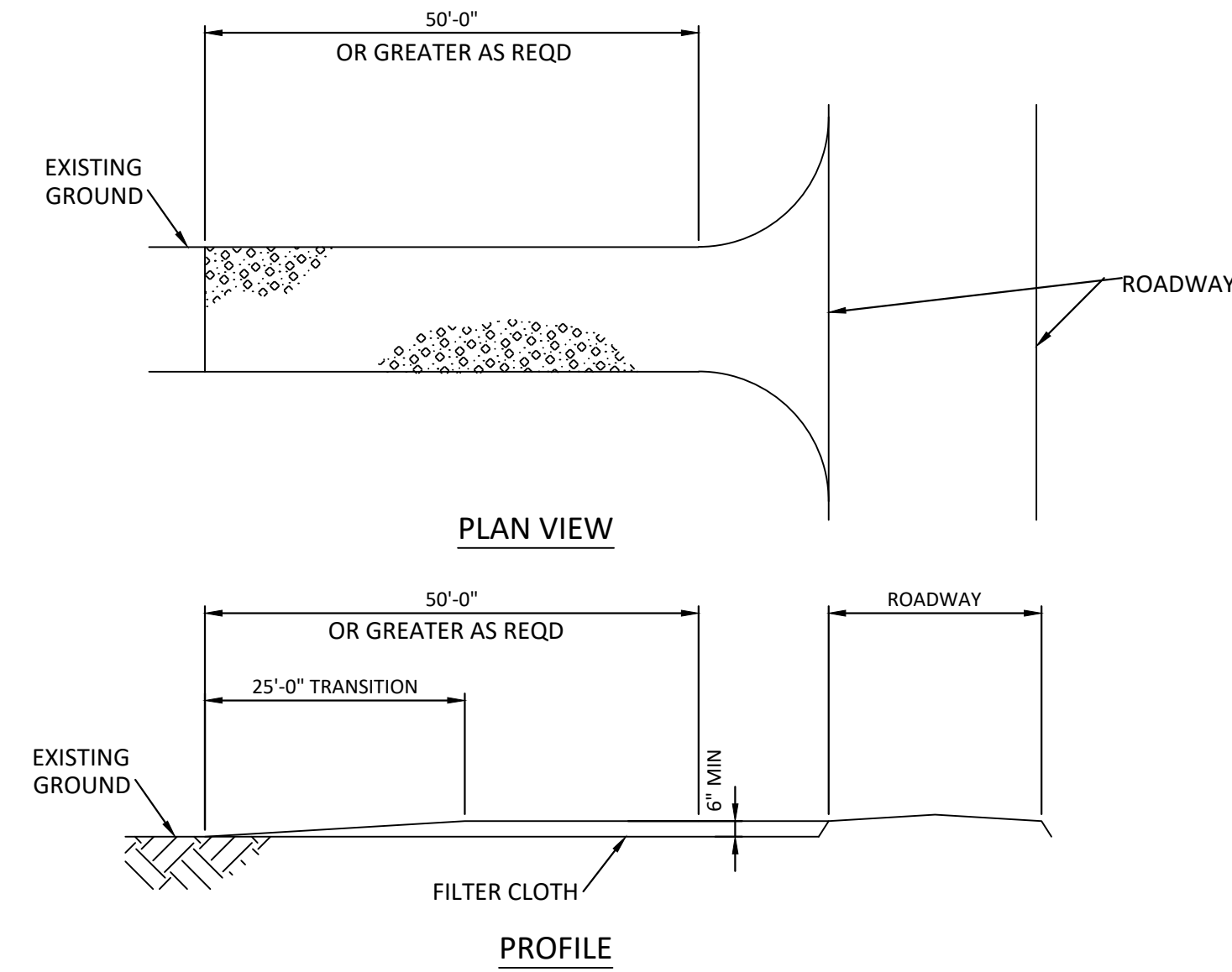
SILT FENCE INSTALLATION NOTES:

- SILT FENCE SHALL BE INSTALLED WHERE INDICATED ON THE PLAN DRAWINGS.
- FILTER FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF SIX INCHES (6") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF THREE FEET (3').

SILT FENCE MAINTENANCE NOTES:

- ALL SILT FENCE SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
- INSPECTION SHALL BE FREQUENT (AT MINIMUM WEEKLY AND BEFORE AND AFTER ANY RAINFALL THAT EXCEEDS 1/2") AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

LIGHT DUTY SILT FENCE DETAIL
NO SCALE

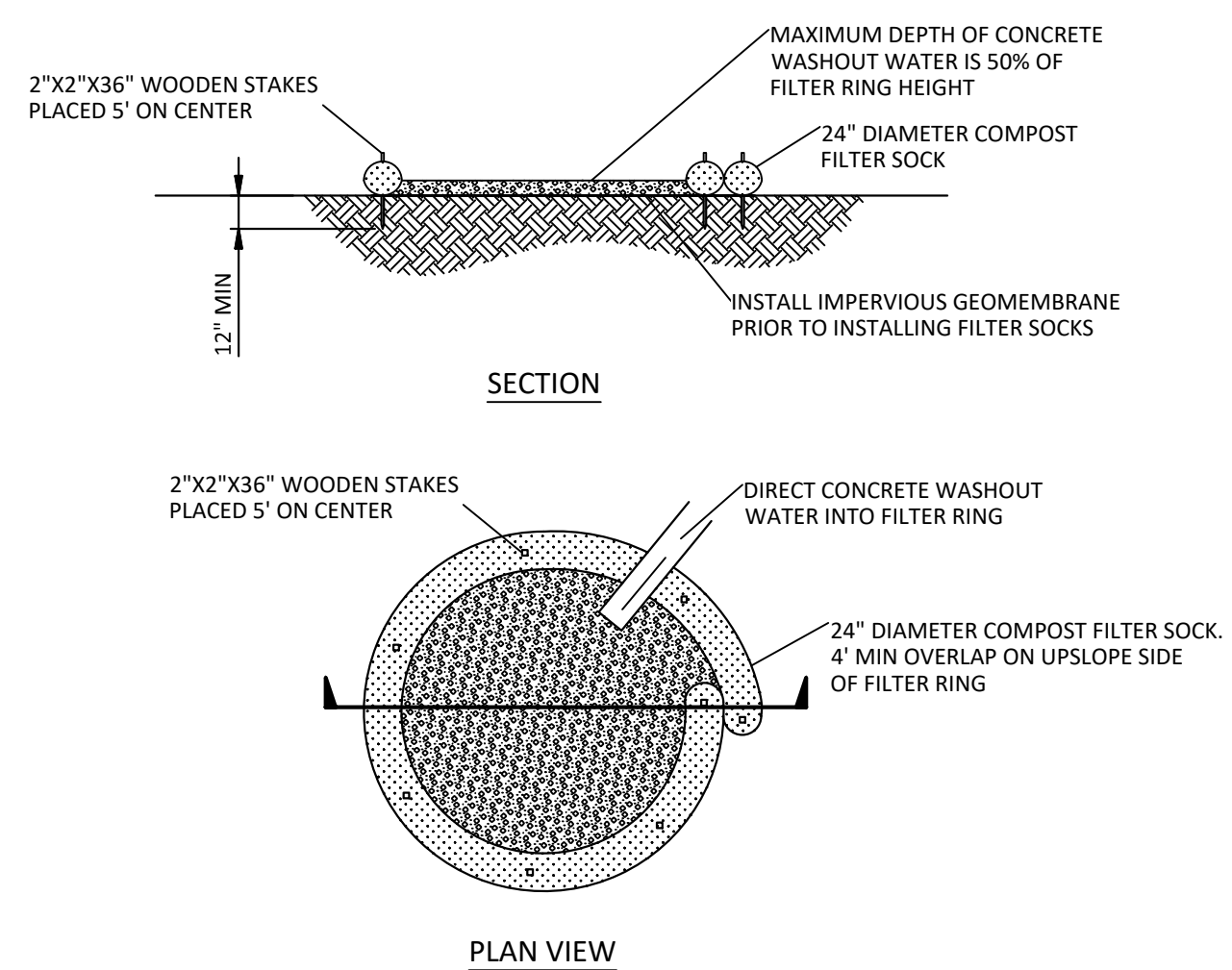


NOTES

- PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W. DESIGN CRITERIA FOR STABILIZED CONSTRUCTION ENTRANCE.

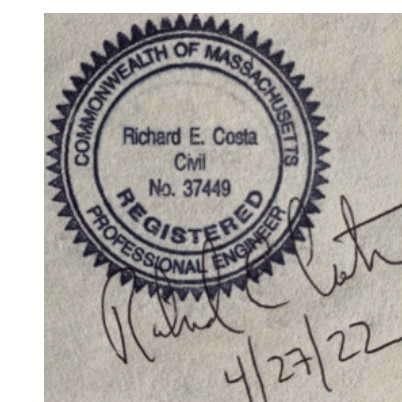
- STONE SIZE - USE ASTM C-33, SIZE NO. 2 OR 3, USE CRUSHED STONE.
- THICKNESS - NOT LESS THAN 8 INCHES.
- WIDTH - NOT LESS THAN FULL WIDTH OF POINTS OF INGRESS OR EGRESS.
- LENGTH - 50 FEET MINIMUM WHERE THE SOILS ARE SANDS OR GRAVEL OR 100 FEET MINIMUM WHERE SOILS ARE CLAYS OR SILTS, EXCEPT WHERE THE TRAVELED LENGTH IS LESS THAN 50 OR 100 FEET RESPECTIVELY. THESE LENGTHS MAY BE INCREASED WHERE FIELD CONDITIONS DICTATE.
- FILTER CLOTH - WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC RIGHT-OF-WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

TYPICAL STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



- NOTES:**
- INSTALL IMPERVIOUS GEOMEMBRANE PRIOR TO INSTALLING FILTER SOCKS.
 - INSTALL ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
 - 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

COMPOST SOCK WASHOUT INSTALLATION DETAIL
NO SCALE



ISSUED FOR PERMITTING

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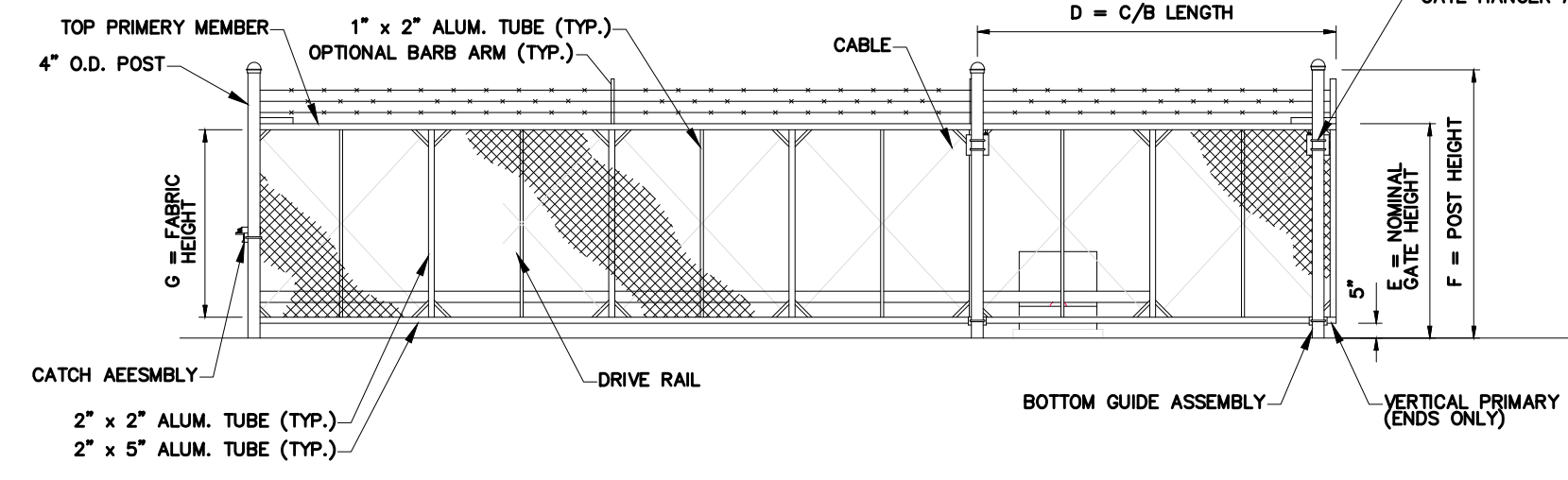
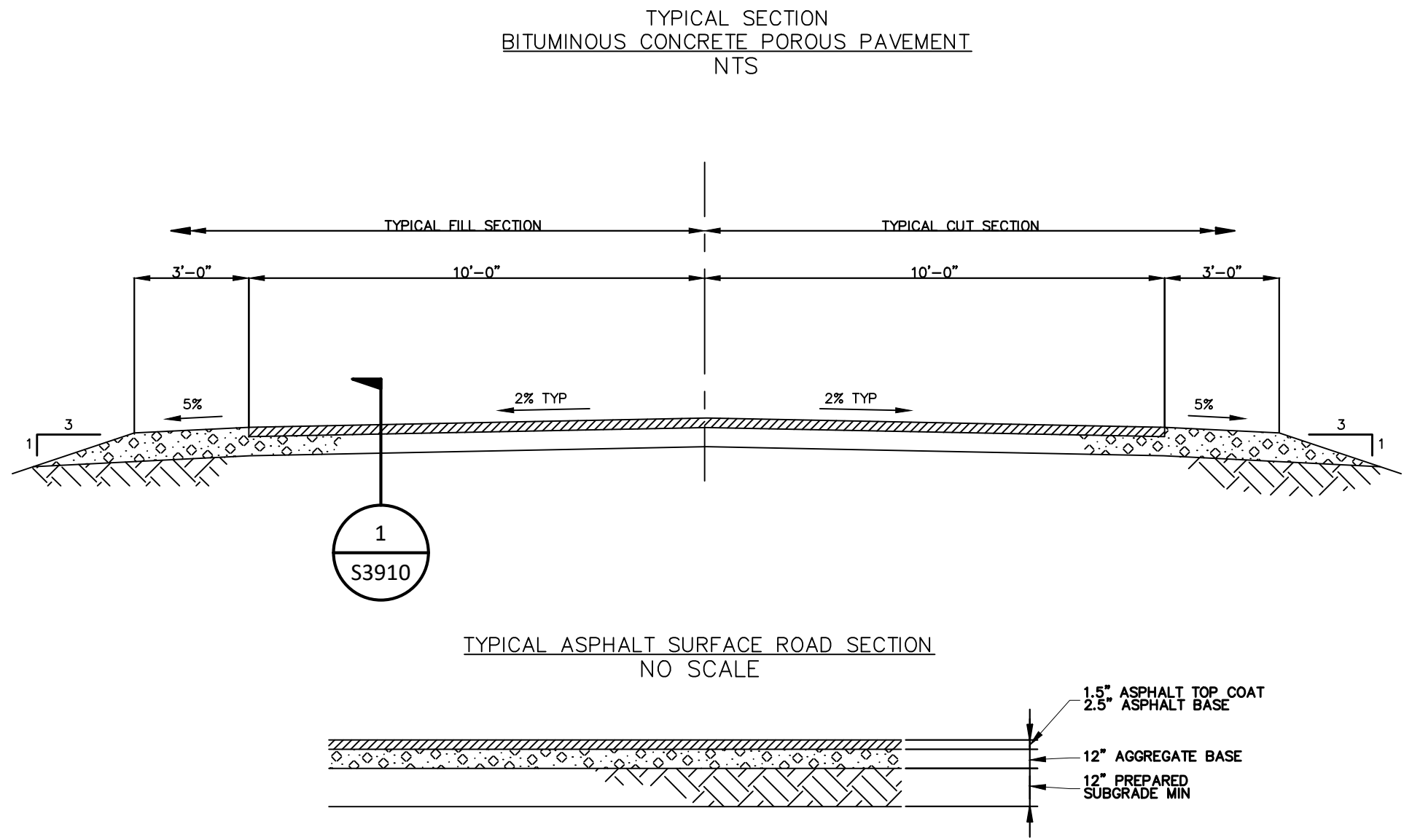
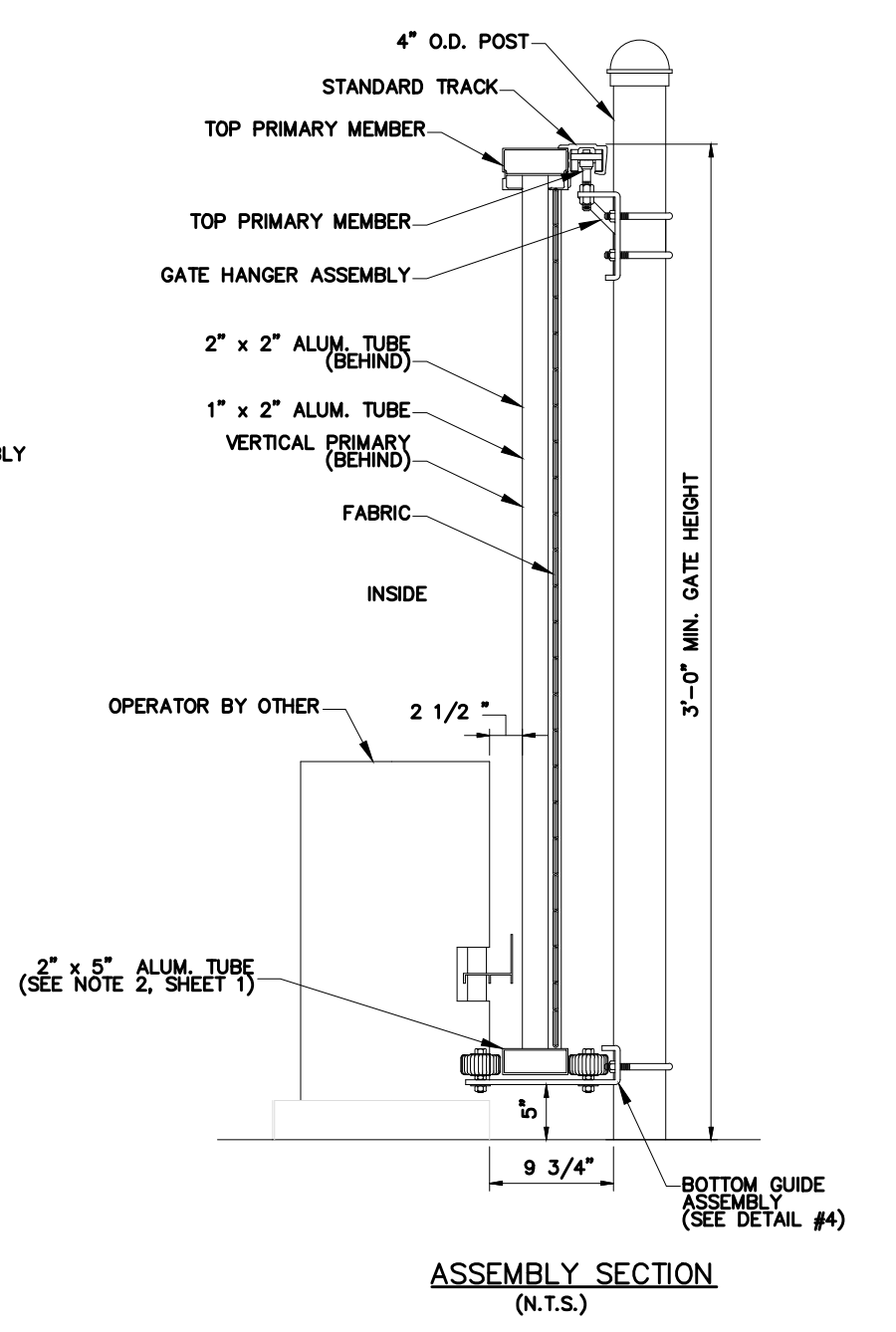
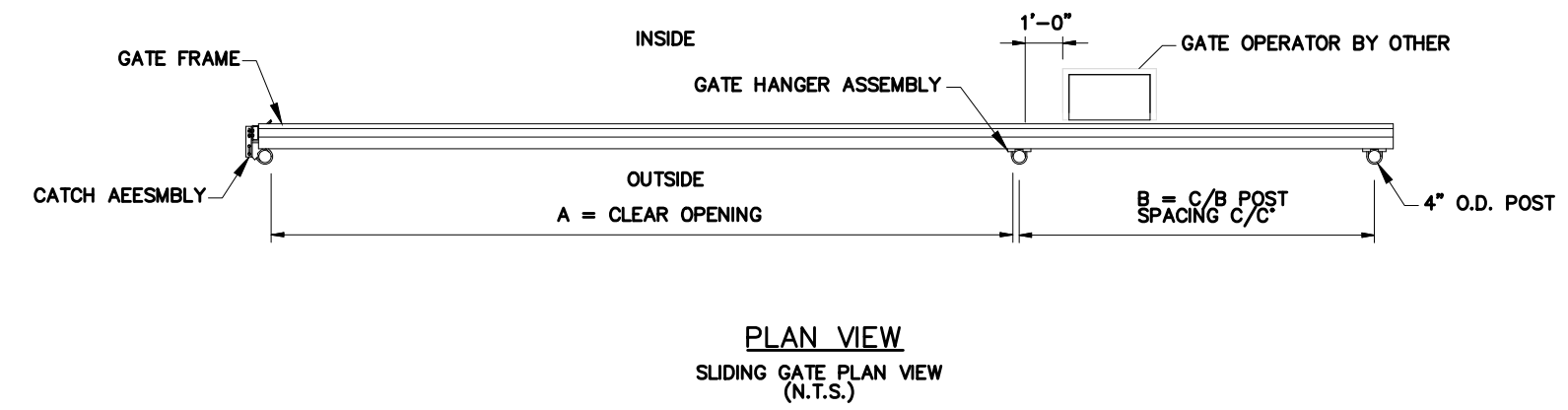
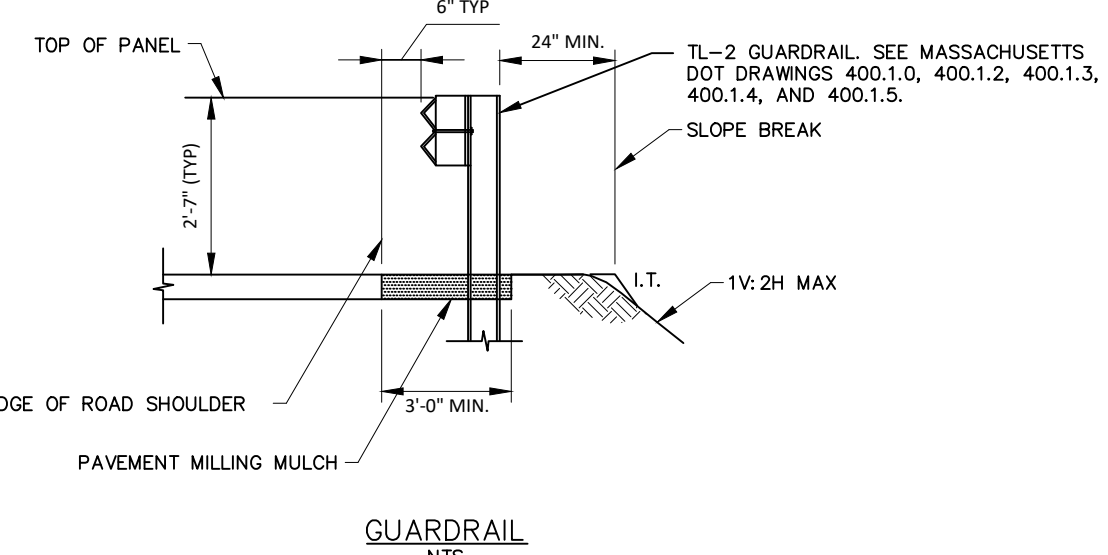
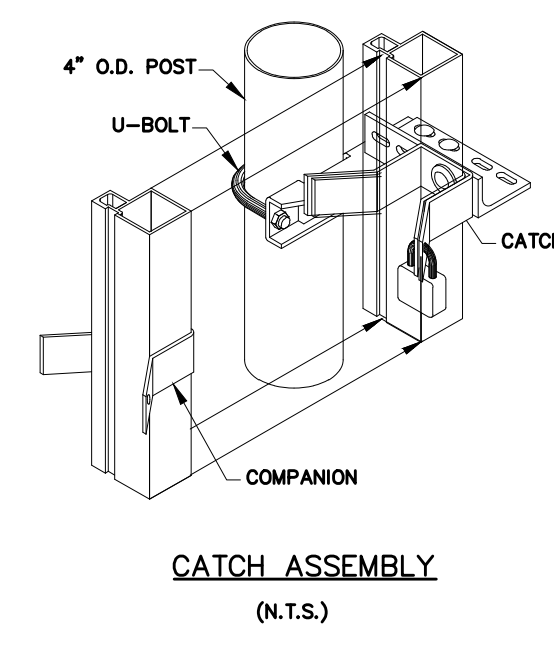
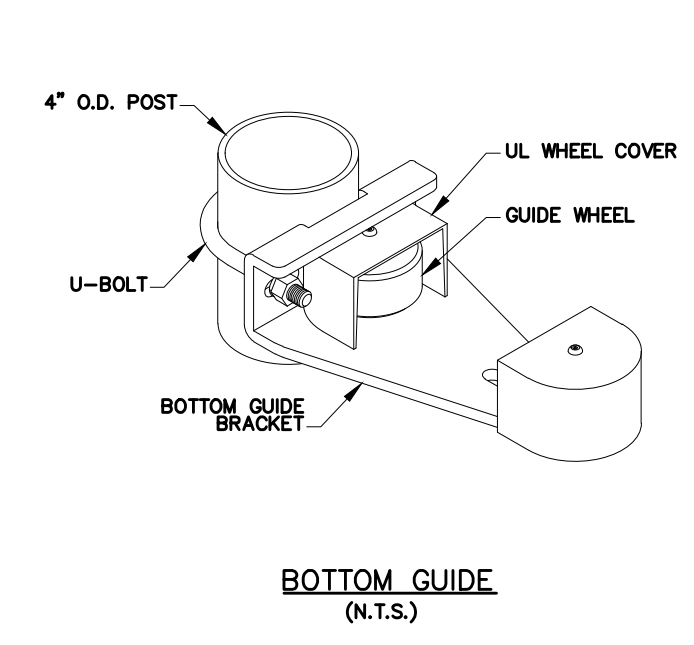
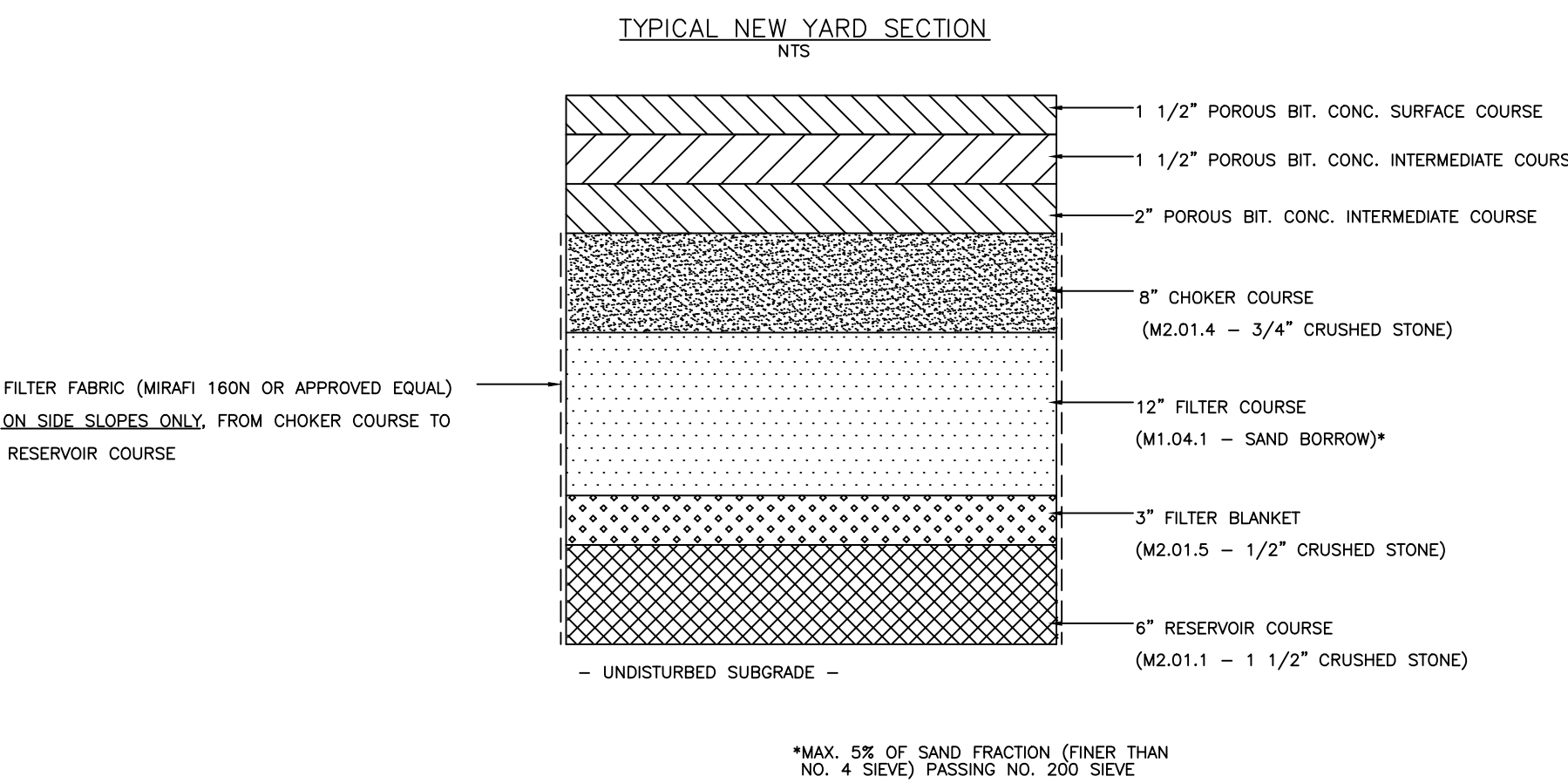
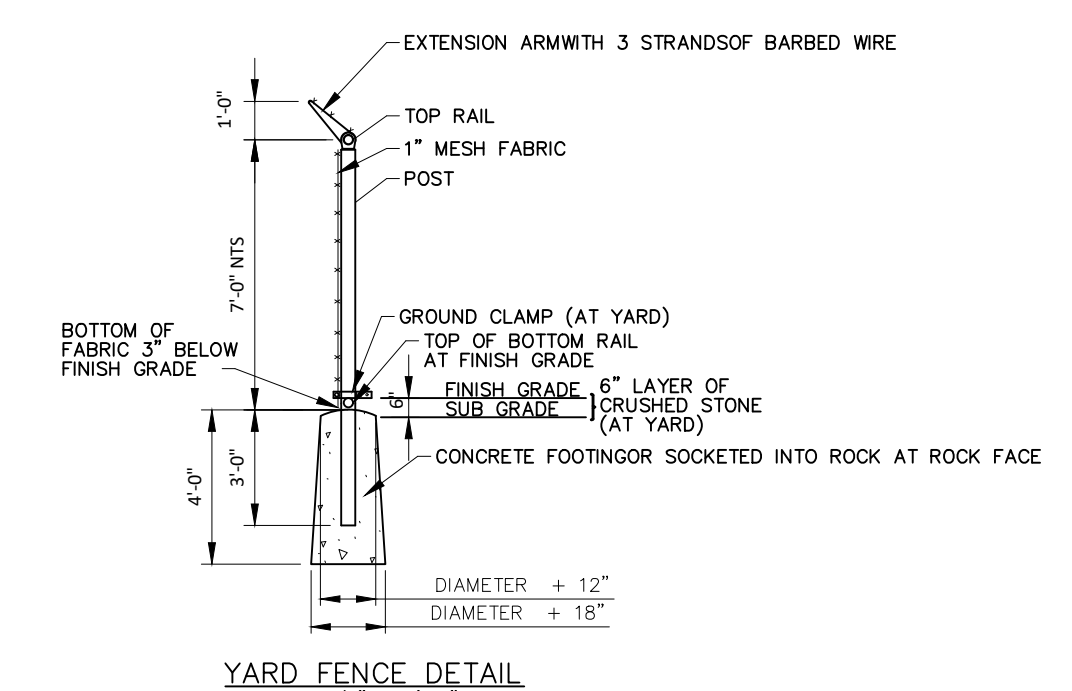
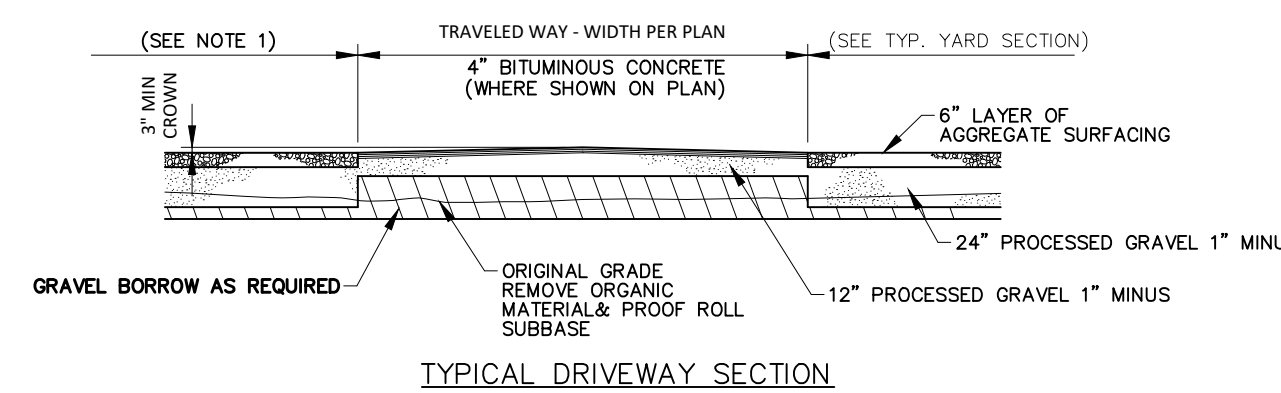
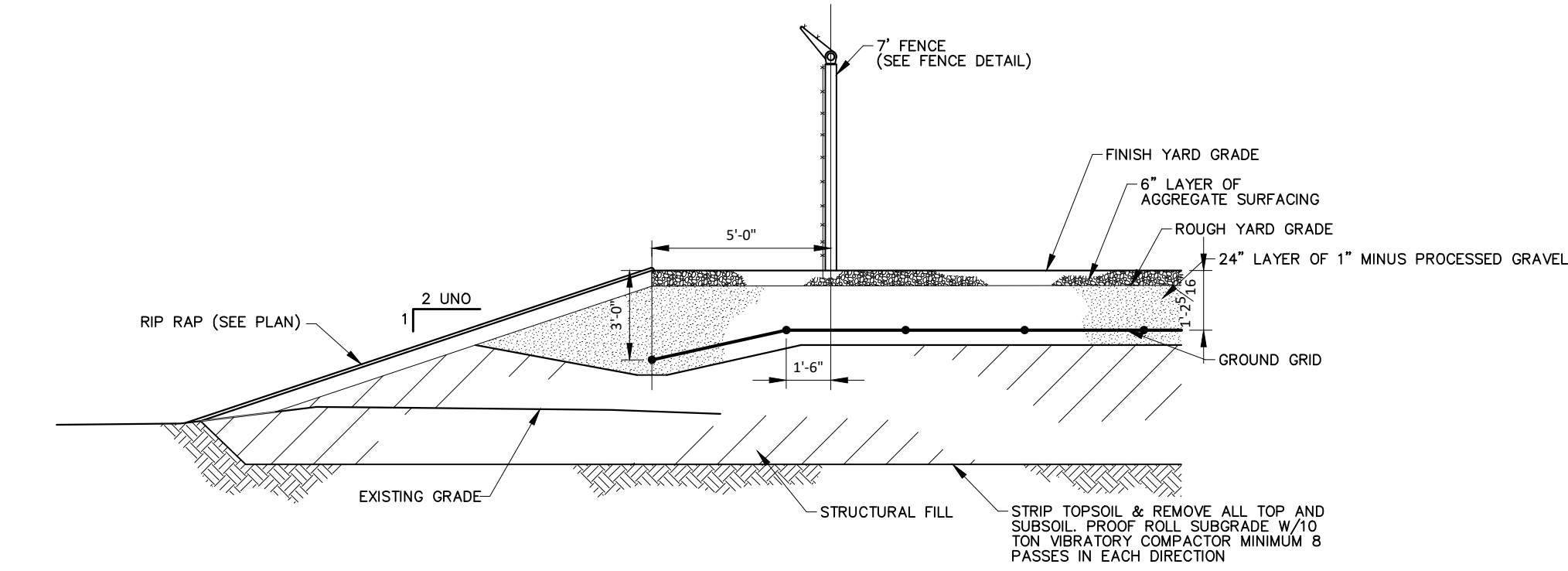
STAFFORD STREET SUBSTATION
GRADING & DRAINAGE DETAILS

SHEET 6 OF 10

INCHES ON ORIGINAL

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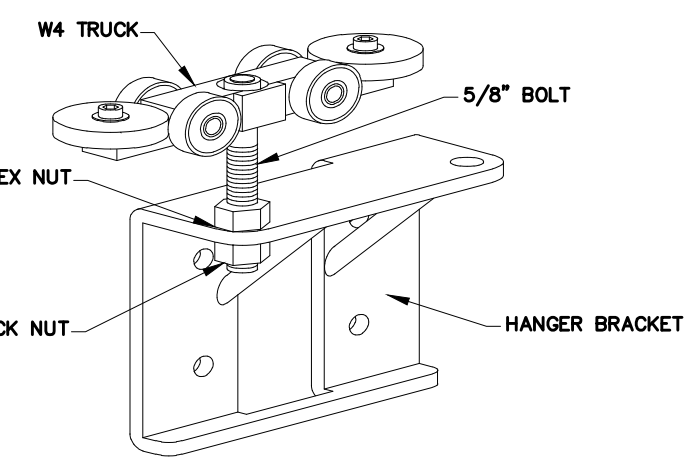
H121394



CRITICAL DIMENSION CHART

Letter	Description	Dimensions
A	CLEAR OPENING	20'-0"
B	COUNTERBALANCE SPACING C/C	9'-1"
C	OVERALL GATE LENGTH	30'-0"
D	COUNTERBALANCE LENGTH	10'-0"
E	NOMINAL GATE HEIGHT	8'-0"
F	POST HEIGHT	9'-6"
G	FABRIC HEIGHT	7'-0"

- NOTES:**
- ALL FITTINGS PROVIDED FOR 4" O.D. POSTS. OTHER SIZES ARE AVAILABLE UPON REQUEST.
 - FOR GATES THAT REQUIRE TWO PIECE FABRICATION, A 5" ALUMINUM CHANNEL WILL BE SUBSTITUTED FOR THE 2" x 5" ALUM. TUBE AND A VERTICAL SPICE WILL BE ADDED.
 - GATE ELEVATION IS VIEWED FROM OUTSIDE OF THE SECURE AREA LOOKING IN.
 - BARB ARMS ARE OPTIONAL.
 - THIS GENERIC DRAWING SHOWS A TYPICAL GATE. GATE MANUFACTURED MAY NOT BE EXACTLY AS SHOWN.



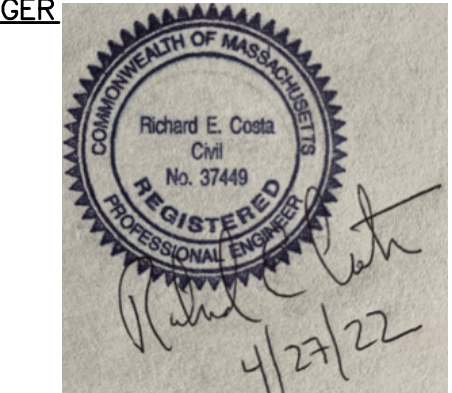
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NOT TO BE USED FOR CONSTRUCTION

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SHEET REFERENCE

H121391	- PROPOSED SITE PLAN
H121392	- EXISTING CONDITIONS
H121393	- GRADING & DRAINAGE PLAN
H121394	- SURFACE & FENCING PLAN
H121395	- ACCESS ROAD PLAN & PROFILE
H121396	- GRADING & DRAINAGE DETAILS
H121397	- EROSION CONTROL FENCE
H121398	- CONSTRUCTION DETAILS
H122297	- LANDSCAPING PLAN
H122298	- SITE PAD CROSS-SECTIONS



NOTES

- POROUS PAVEMENT IS SPECIFIED FOR USE TO MEET STORMWATER QUALITY STANDARDS FOR THE PROJECT BY PROVIDING THE REQUISITE GROUNDWATER RECHARGE AND WATER QUALITY TREATMENT PURSUANT TO THE MASSDEP STORMWATER MANAGEMENT STANDARDS (SMS). ADDITIONALLY, THE POROUS PAVEMENT SHOWN HEREON IS INTENDED TO MEET THE HYDRAULIC AND HYDROLOGIC REQUIREMENTS OF THE SMS. THE FINAL POROUS PAVEMENT DESIGN SHOULD BE PROVIDED BY THE ENGINEER TO ALSO MEET THE PROJECT PAVEMENT STRUCTURAL AND SERVICEABILITY REQUIREMENTS BASED ON PLANNED SERVICE LIFE, TRAFFIC LOADING, AND ENVIRONMENTAL CONDITIONS. SEE THE CIVIL DRAWINGS FOR FINAL PAVEMENT DESIGN INCLUDING BITUMINOUS CONCRETE THICKNESS AND MATERIAL REQUIREMENTS.
- POROUS PAVEMENT DESIGN AND CONSTRUCTION SHOULD BE IN ACCORDANCE WITH:
 - NATIONAL GRID CONSTRUCTION SPECIFICATIONS, SP.08.00.001, FEB 2020 (NGRID SPECIFICATIONS);
 - MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 2022 EDITION (MASSDOT SPECIFICATIONS);
 - AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS (AASHTO SPECIFICATIONS);
 - UNH STORMWATER CENTER DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS, REVISED SEPTEMBER 2016 (UNHSC SPECIFICATIONS.);
 - WHERE CONFLICTS EXIST, THE UNHSC SPECIFICATIONS SHOULD GOVERN WITH RESPECT TO THE STORMWATER MANAGEMENT ASPECTS OF THE POROUS PAVEMENT SECTION.
- MATERIALS PROPOSED FOR USE IN THE POROUS PAVEMENT SECTION (I.E., BITUMINOUS CONCRETE MIX DESIGN, CHOKER COURSE, FILTER COURSE, FILTER BLANKET, AND RESERVOIR COURSE) INCLUDING TEST RESULTS SHOULD BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR DELIVERY TO THE SITE.
- POROUS PAVEMENT SHOULD BE DESIGNED TO MEET THE MINIMUM STRUCTURAL NUMBER REQUIRED BY THE ENGINEER. THE BITUMINOUS BINDER SHOULD BE POST-BLENDED PG 76-28 MODIFIED WITH STYRENE BUTADIENE RUBBER (SBR) OR STYRENE BUTADIENE STYRENE (SBS) AND BE PROVIDED AN ANTI-STRIPPING MIX ADDITIVE. THE AGGREGATE SHOULD MEET THE ANGULARITY, HARDNESS, AND SOUNDNESS REQUIREMENTS PER MASSDOT SPECIFICATIONS. THE MIX DESIGN GRADATION, BINDER CONTENT, AIR VOID CONTENT, DRAINDOWN, AND TENSILE AND ABRASION CRITERIA SHOULD MEET TABLE 5 OF THE 2016 UNHSC SPECIFICATIONS. THE COMPACTED BITUMINOUS COURSES SHOULD HAVE A MINIMUM INFILTRATION RATE OF 10 IN/HR.
- CHOKER COURSE SHOULD BE A HARD, DURABLE, OPEN-GRADED, NOMINAL CRUSHED STONE PER MASSDOT M2.01.4 - 3/4" CRUSHED STONE, OR AASHTO #57 THAT REMAINS STABLE AND NOT SUBJECT TO RUTTING UNDER LOADED TRUCK AND PAVEMENT WHEEL LOADS. COMPLIANCE WITH THE GRADATION REQUIREMENT DOES NOT PRECLUDE MEETING THE RUTTING REQUIREMENT.
- FILTER COURSE SHOULD BE A SAND-GRAVEL MIXTURE MEETING THE REQUIREMENTS OF MASSDOT M1.04.1 - SAND BORROW FOR SUBDRAINS. THE MATERIAL SHOULD HAVE A TESTED MINIMUM COMPACTED INFILTRATION RATE OF 10 FT/DAY (5 IN/HR) AT 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- COMPACTION: CHOKER COURSE, FILTER BLANKET, AND RESERVOIR COURSE SHOULD BE COMPACTED USING MINIMUM 5-TON STEEL DRUM ROLLERS WITHOUT VIBRATORY COMPACTION. FILTER COURSE SHOULD BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY PROVIDED THE MINIMUM TESTED HYDRAULIC CONDUCTIVITY IS ACHIEVED. NATURAL SUBGRADE AND STRUCTURAL FILL SUBGRADE BENEATH THE RESERVOIR COURSE SHOULD BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY PROVIDED A MINIMUM INFILTRATION RATE OF 1 IN/HR CAN BE ACHIEVED AT THAT COMPACTION. A REDUCED DEGREE OF COMPACTION REQUIRES APPROVAL BY THE ENGINEER, AND IN NO CASE SHOULD THE DEGREE OF SUBGRADE COMPACTION BE LESS THAN 92% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- TOLERANCES: ALL POROUS PAVEMENT SECTION THICKNESSES ARE MINIMUM VALUES.
- OPERATIONS AND MAINTENANCE: THE POROUS PAVEMENT SHOULD BE INSPECTED NO LESS THAN QUARTERLY FOR EVIDENCE OF SEDIMENT ACCUMULATION, PONDING, OR OTHER INDICATIONS OF INSUFFICIENT INFILTRATION. EXCESSIVE SEDIMENT FROM VEHICLE TRACKING, RUN-ON, ETC., SHOULD BE REMOVED AS NEEDED USING PAVEMENT VACUUM METHODS ANNUALLY IN THE SPRING FOLLOWING LAST SNOW MELT. EXCESSIVE LEAVES SHOULD BE REMOVED BY VACUUM OR BLOWERS ANNUALLY IN THE FALL FOLLOWING LEAF DROP AND PRIOR TO THE FIRST SIGNIFICANT SNOW FALL AND LONG-DURATION FREEZING. SNOW SHOULD NOT BE STOCKPILED ON POROUS PAVEMENT. ROAD SALT SHOULD BE APPLIED FOR TRACTION CONTROL IN WINTER MONTHS IN LIEU OF SAND. SAND OR OTHER NON-SOLUBLE TRACTION ENHANCEMENT MATERIALS SHOULD NOT BE APPLIED TO THE AREAS OF POROUS PAVEMENT.

NO.	DATE	ISSUED FOR CLIENT REVIEW	ISSUED FOR PERMITTING
1	11/15/21		
2	02/25/22		
3	04/27/22		
4	07/07		

nationalgrid

REVIEWED BY	DATE	SCALE	SHEET	INDEX
		1" = 40'-0"	4	10

STAFFORD STREET SUBSTATION

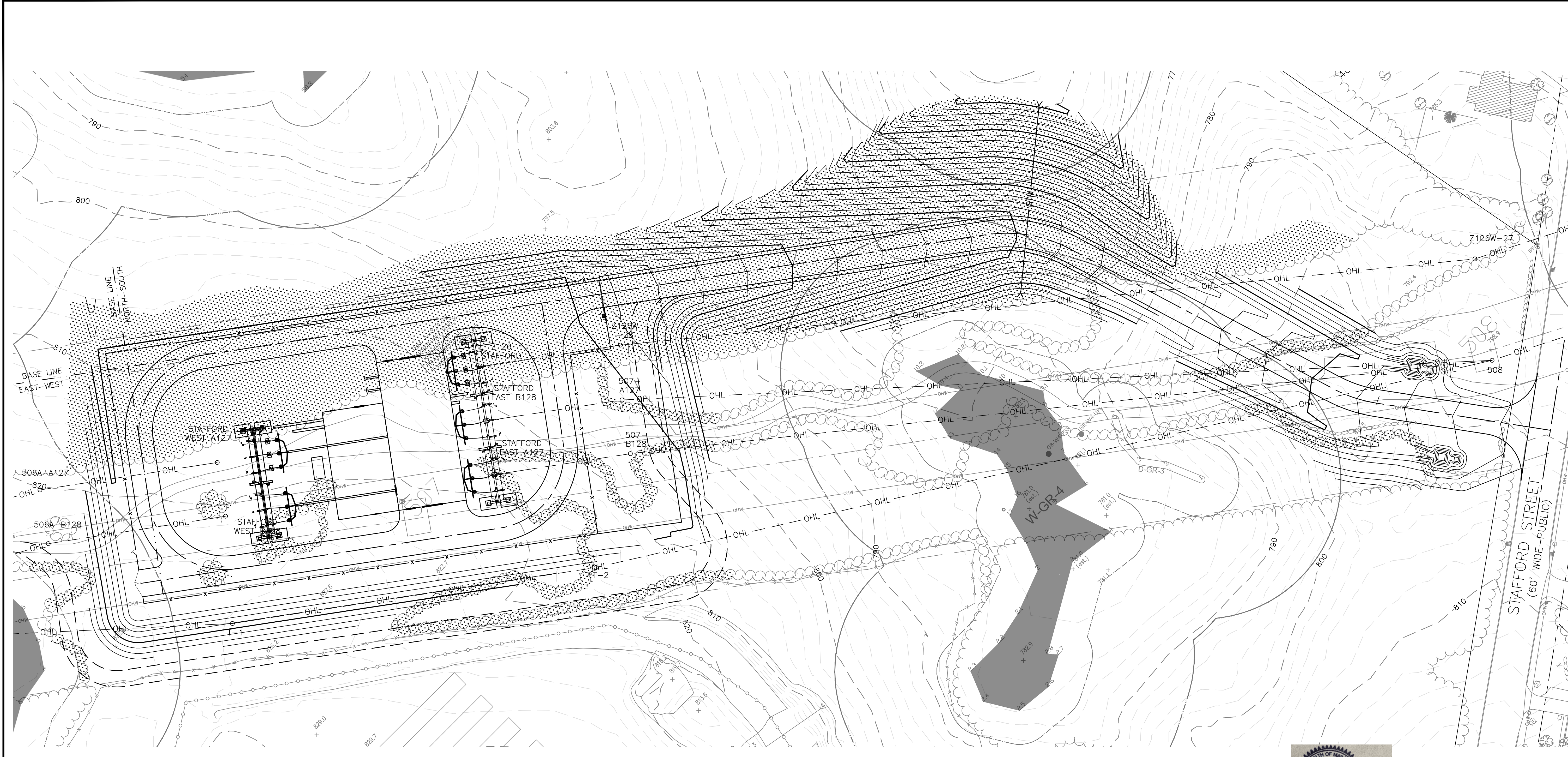
CONSTRUCTION DETAILS

H121398

INCHES ON ORIGINAL

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H122297



TREE CLEARING (SQ. FT.)
106,122.57

LANDSCAPE NOTES:

- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
- LOAM AND SEED ALL AREAS NOT OTHERWISE TREATED.
- THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE/CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

PLANT MAINTENANCE NOTES:

- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE OWNER.
- WATERING SHALL BE REQUIRED DURING THE GROWING SEASON.
- WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

TREE PROTECTION NOTES:

- EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY CONSTRUCTION FENCE. ERECT FENCE AT EDGE OF THE TREE DRIP LINES OR AS INDICATED ON THE PLAN PRIOR TO TREE CLEARING.
- CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE PROTECTION AREA.
- DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.

INVASIVE SPECIES REMOVAL NOTES:

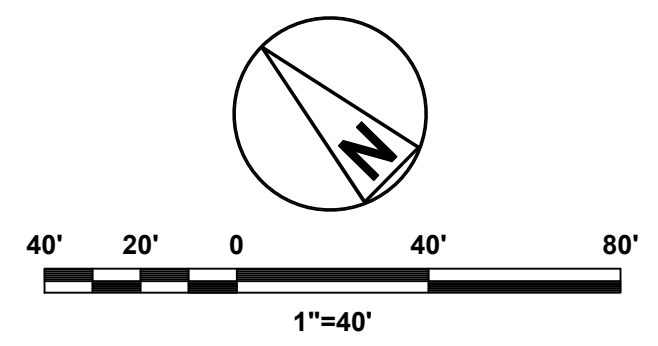
- CONTRACTOR SHALL CUT AND REMOVE INVASIVE VINE AND SHRUB SPECIES.
- CONTRACTOR SHALL APPLY HERBICIDE TO FRESHLY CUT STUMPS OF WOODY AND HERBACEOUS INVASIVE PLANTS. HERBICIDE APPLICATION SHALL BE PERFORMED BY A LICENSED HERBICIDE APPLICATOR. THE CONTRACTOR SHALL PROTECT NEARBY EXISTING PLANTS TO REMAIN AND NEWLY PLANTED LANDSCAPE PLANTS FROM OVERSPRAY.
- REMOVE DEAD VEGETATION FROM THE SITE AND PROPERLY DISPOSE OF OFF SITE.

LEGEND

- GUARDRAIL LINES
- ROADWAY CENTERLINES
- ROADWAY CURB LINES
- SECURITY FENCE AND GATE LINES
- EXISTING MAJOR CONTOUR LINES
- EXISTING MINOR CONTOUR LINES
- FINISH GRADE CONTOUR LINES
- EXISTING VEGETATION
- EXISTING WETLANDS
- LIMITS OF TREE CLEARING

NOT TO BE USED FOR CONSTRUCTION

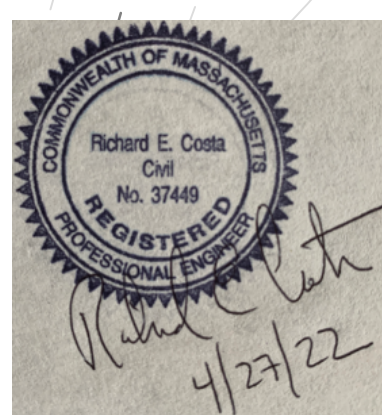
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- H121397 - EROSION CONTROL FENCE
- H121398 - CONSTRUCTION DETAILS
- H122297 - LANDSCAPING PLAN
- H122298 - SITE PAD CROSS-SECTIONS

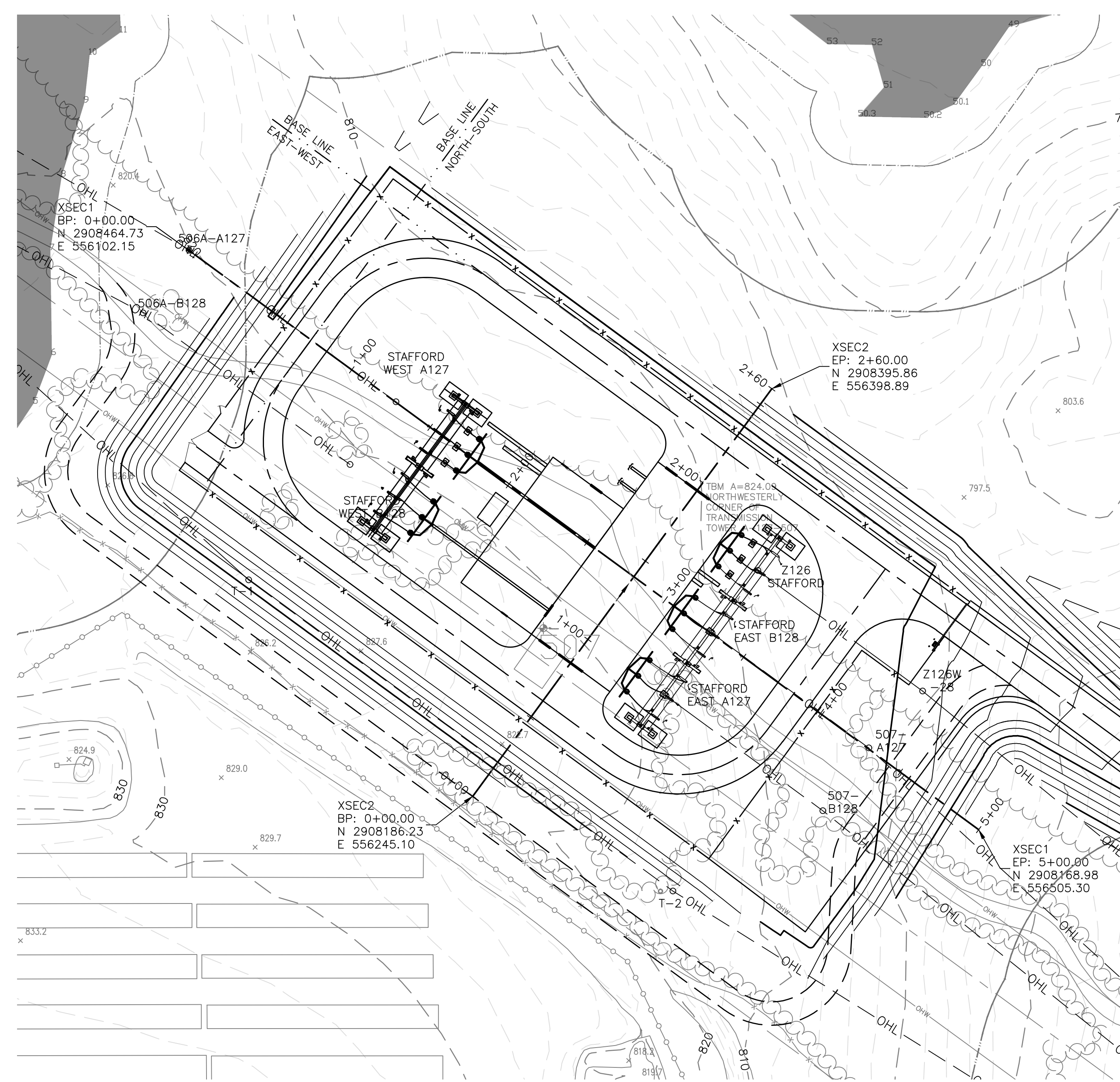


<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>11/25/21</td> <td>ISSUED FOR CLIENT REVIEW</td> </tr> <tr> <td>2</td> <td>02/25/22</td> <td>ISSUED FOR PERMITTING</td> </tr> <tr> <td>3</td> <td>04/27/22</td> <td>ISSUED FOR PERMITTING</td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> </table>	NO.	DATE	DESCRIPTION	1	11/25/21	ISSUED FOR CLIENT REVIEW	2	02/25/22	ISSUED FOR PERMITTING	3	04/27/22	ISSUED FOR PERMITTING	4			5			6			7			<p style="text-align: center; font-size: 2em; font-weight: bold;">3</p> <p style="text-align: center; font-weight: bold; font-size: 1.5em;">nationalgrid</p> <p style="text-align: center;">STAFFORD STREET SUBSTATION LANDSCAPING PLAN</p> <p style="text-align: center;">SHEET 9 OF 10 INDEX</p>
NO.	DATE	DESCRIPTION																							
1	11/25/21	ISSUED FOR CLIENT REVIEW																							
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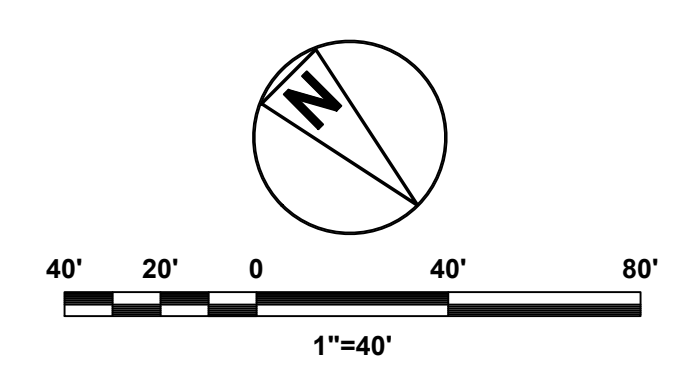
H122297

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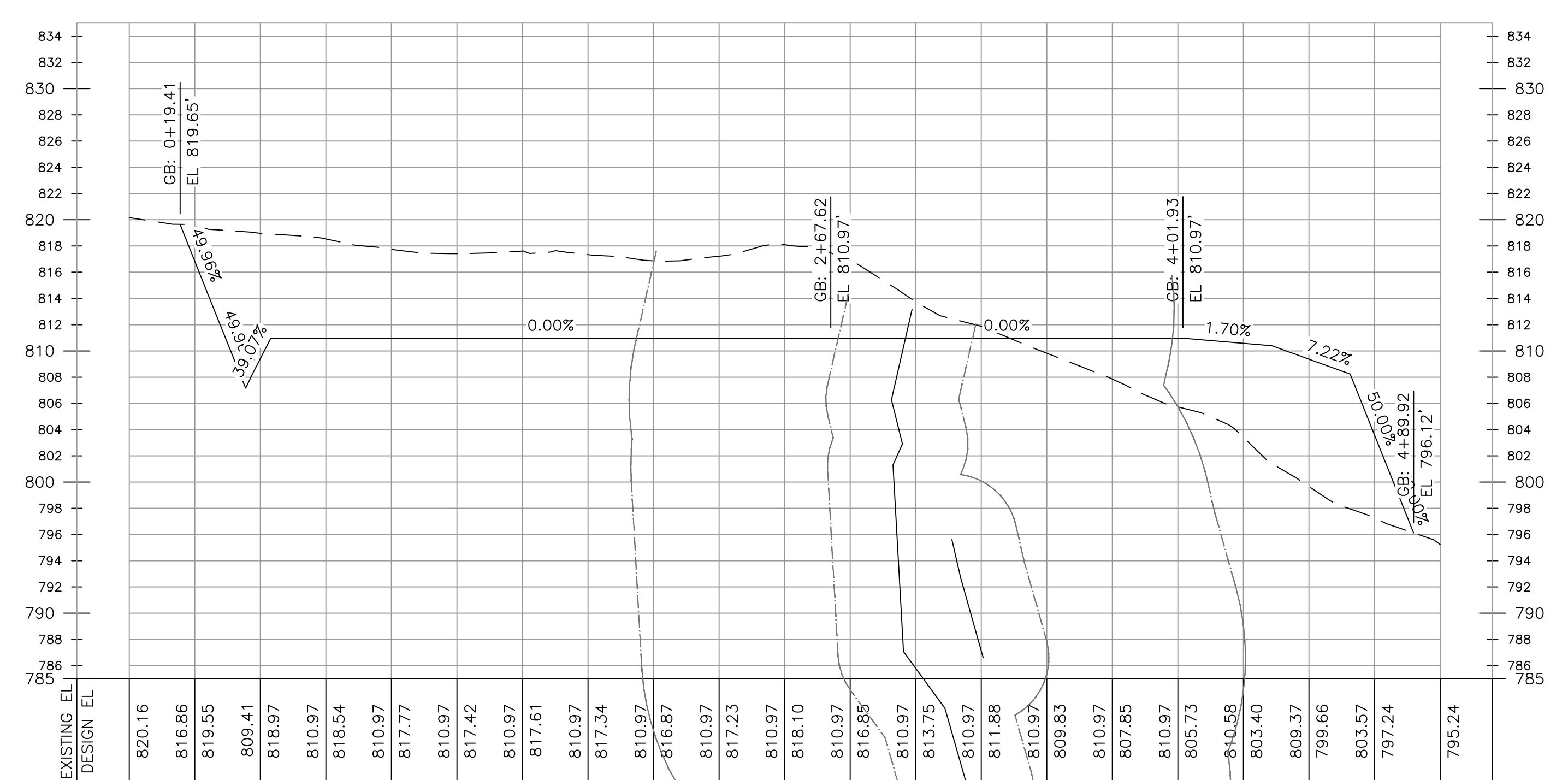
H122298



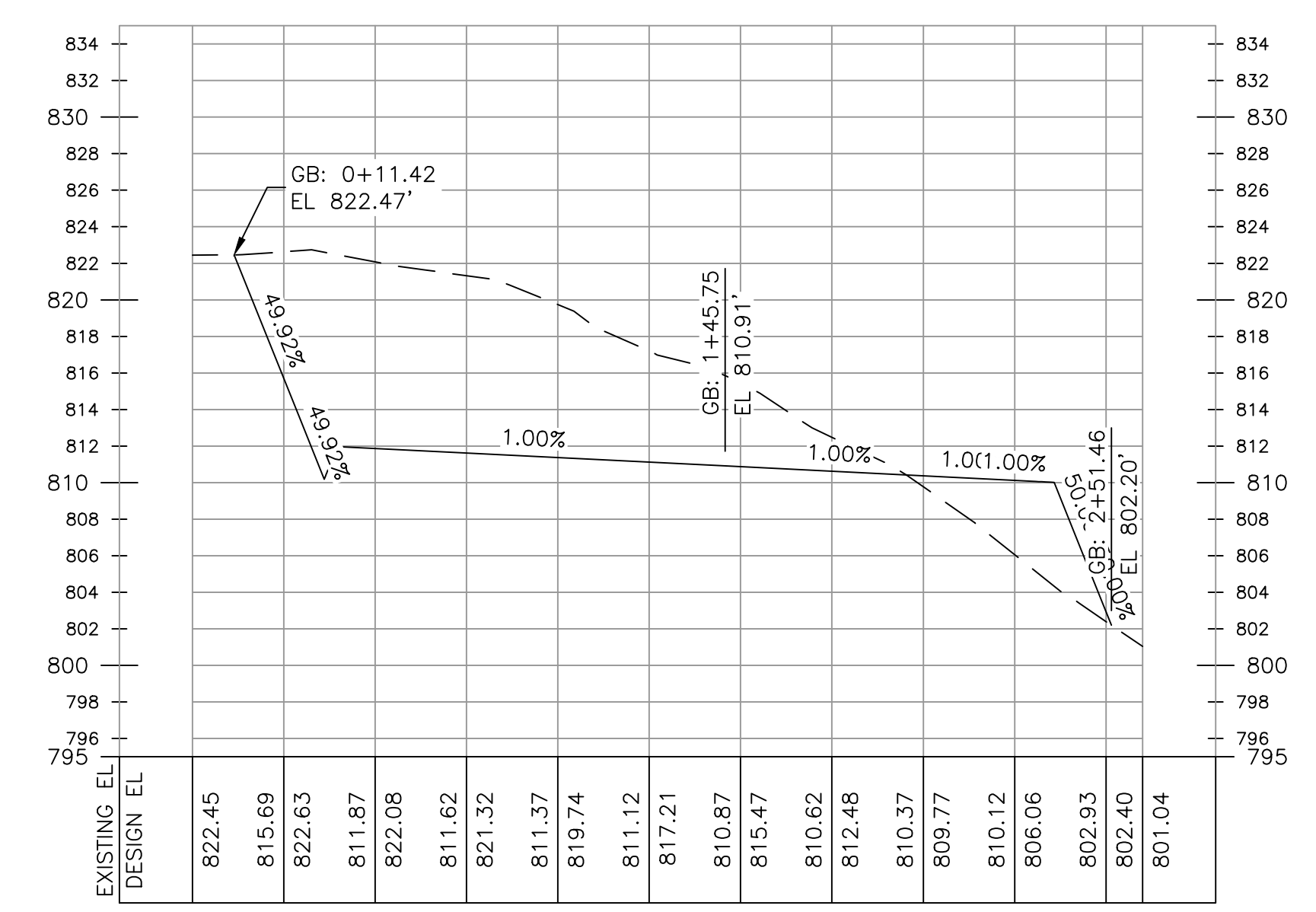
- NOTES:**
- SEE NOTES ON DRAWINGS H121393 AND H121399.
 - ALL DISTURBED AREAS NOT RECEIVING AGGREGATE OR PAVEMENT SHALL BE RESTORED TO PRE-EXISTING CONDITIONS.
 - SEE DRAWING H121398 FOR SUBSTATION AGGREGATE THICKNESS.
 - SEE DRAWING H121398 FOR PAVEMENT DETAILS.



INCHES ON ORIGINAL



XSEC1 PROFILE

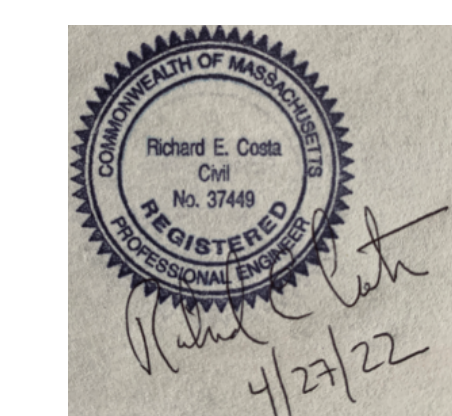


XSEC2 PROFILE

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REV	DATE	DESCRIPTION
1	11/15/21	ISSUED FOR CLIENT REVIEW
2	02/25/22	ISSUED FOR PERMITTING
3	04/27/22	ISSUED FOR PERMITTING
4		
5		
6		
7		

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STAFFORD STREET SUBSTATION
 SITE PAD CROSS-SECTIONS

H122298

ORIGINAL DATE	REV. DATE	DESCRIPTION	MADE	CHKD	INSP	REVD	APVD
	1/15/20	ISSUED FOR CLIENT REVIEW	FB/B&V	FB/B&V	CBK/B&V	DTW/DLB	APVD
	7/19/20	ISSUED FOR CLIENT REVIEW	HW/B&V	KB/B&V	AB/B&V	DTW/DLB	APVD
	8/10/20	ISSUED FOR CLIENT REVIEW	DB/B&V	DB/B&V	KB/B&V	DTW/DLB	APVD
	4						

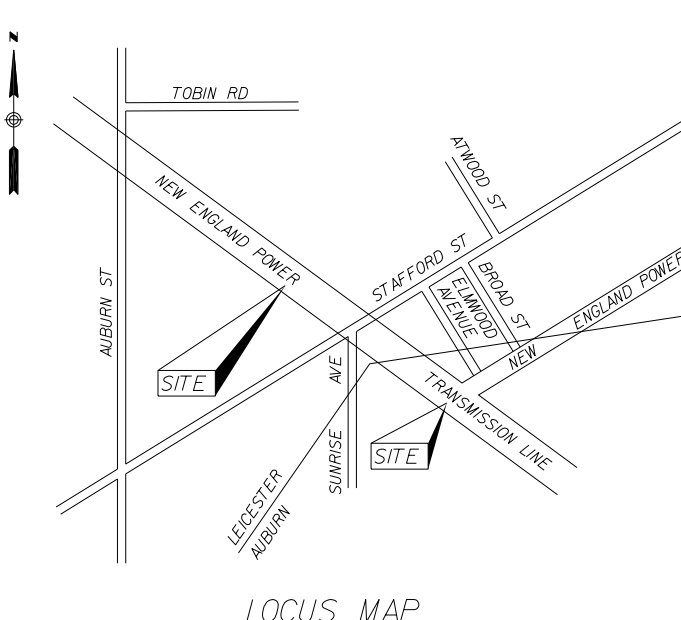


LEGEND

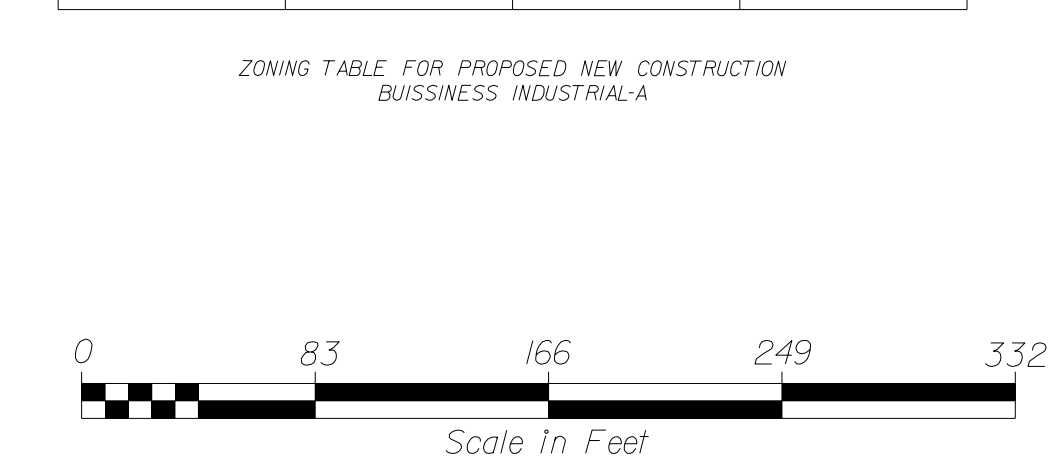
CBH □ CONCRETE BOUND WITH DRILL HOLE	⊕ TEMP. BENCHMARK
CB □ CONCRETE BOUND	⊗ LANDSCAPE BOULDER
⊕ DRILL HOLE FOUND	⊗ WATER WELL
⊕ IRON PIPE FOUND	⊗ CATCH BASIN
⊕ UTILITY POLE	⊗ CATCH BASIN DROP INLET
⊕ UTILITY POLE WITH LIGHT	⊗ CULVERT
⊕ POST	⊗ LIGHT POLE
⊕ 88.32 SPOT ELEVATION	BC BITUMINOUS CURBING
⊕ DECIDUOUS TREE	BIT BITUMINOUS PAVEMENT
⊕ CONIFER TREE	CB CATCH BASIN
⊕ SHRUB	CLF CHAIN LINK FENCE
DI DROP INLET ELEVATION	CM CORRUGATED METAL PIPE
INV PIPE INVERT ELEVATION	CNO COULD NOT OPEN
NPV NO PIPED VISIBLE	
○ TEMP. TRANSMISSION POLE	
— 25-FT NO DISTURBANCE ZONE	
— FIELD DELINEATED WETLAND EDGE (TRC)	
— 25-FT NO DISTURBANCE ZONE	
— 100-FT WETLAND BUFFER	
— FIELD DELINEATED STREAM (TRC)	
— AREA AND FLAG	
— FIELD DELINEATED DRAIN AREA (TRC)	
33 WETLAND FLAG	
● USACE PLOT (TRC)	
○ POTENTIAL VERNAL POOL	
— ABUTTERS LOT LINE	
— PROPERTY LINE	
— EASEMENT	
— TOWN LINE	
— BASELINE OF RIGHT OF WAY	
— OVERHEAD WIRES	
— PROPOSED OVERHEAD LINES	
— STONE WALL	
— TREE LINE	
— 852 INTERMEDIATE CONTOURS	
— 850 INDEX CONTOURS	
— ZONING BORDER LINE	

NOTES

- THE INTENT OF THIS PLAN IS TO SHOW THE LAND AND EASEMENTS OWNED BY THE NEW ENGLAND POWER COMPANY.
- TOPOGRAPHY AND PHOTOGRAMMETRY SHOWN ON THIS PLAN WERE COMPILED FROM AERIAL PHOTOS DATED APRIL 17TH, 2019.
- PROPERTY BOUNDARY AND WETLAND FLAG LOCATIONS SHOWN ON THIS PLAN WERE PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP BETWEEN JANUARY 31ST, 2019 AND JANUARY 28TH, 2020.
- THE HORIZONTAL DATUM SHOWN HEREON IS BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (MIDDLE AND NORTH AMERICAN DATUM OF 1983).
- THE VERTICAL DATUM SHOWN HEREON REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- WETLANDS WERE DELINEATED FLAGGED & LOCATED WITH SUB-METER ACCURATE GPS BY TRC IN NOVEMBER 2019.
- SITE SURVEY AND ACCESS ROAD INFORMATION SHALL BE REVISED DURING DETAILED DESIGN.



	REQUIRED	EXISTING	PROPOSED SWITCHING STATION
LOT AREA (SQ. FT.)	20,000 - MIN.	1,928,362	1,928,362
FRONTAGE (FT.)	150 - MIN.	1128	1128
YARD SETBACKS (FT.)	FRONT - 50 SIDE - 40 REAR - 40 MIN.	N/A	FRONT - 714 SIDE - 377 REAR - 678
HEIGHT OF BUILDING (FT.)	55 - MAX.	N/A	35
NO. OF STOREYS	5 1/2 - MAX.	N/A	1
BUILDING COVERAGE (%)	30 - MAX.	N/A	0.5

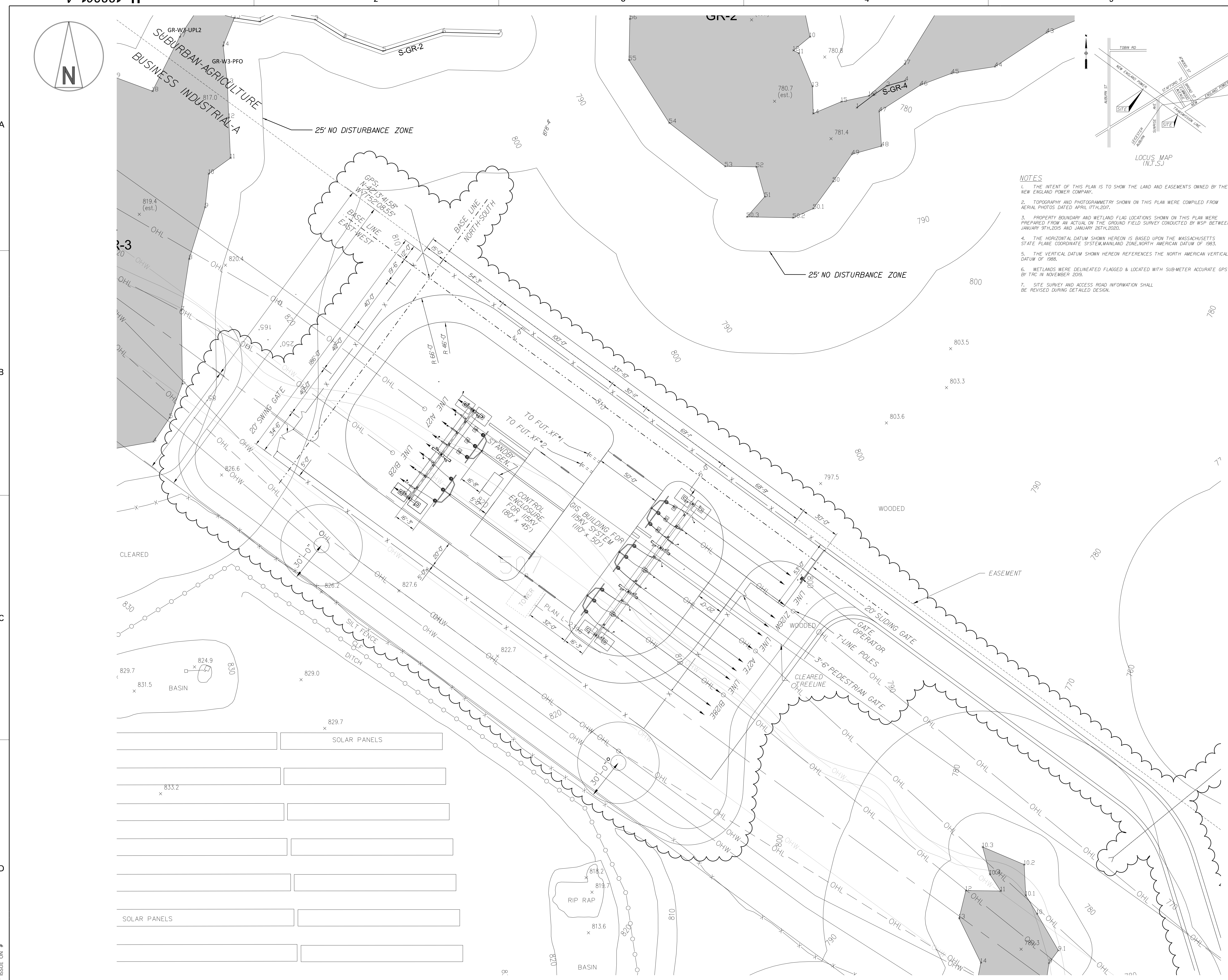


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NEW ENGLAND POWER COMPANY
MASSACHUSETTS ELECTRIC COMPANY
STAFFORD ST. SWITCHING STATION NO. 2263
STAFFORD STREET, LEICESTER, MASSACHUSETTS
115KV-13.8KV
STATION LOCATION PLAN
SCALE 1"=83'-0"

REV. DATE	DESCRIPTION	REV. DATE	DESCRIPTION	MADE	CHKD	INSP	APVD	APVD
1	ISSUED FOR CLIENT REVIEW	8/14/20		DB/B&V	DB/B&V	DB/B&V	DB/B&V	DB/B&V
2								
3								
4								



LEGEND

CBH	CONCRETE BOUND WITH DRILL HOLE	TEMP. BENCHMARK	
CB	CONCRETE BOUND	LANDSCAPE BOULDER	
DHF	DRILL HOLE FOUND	WATER WELL	
IPF	IRON PIPE FOUND	CATCH BASIN	
U	UTILITY POLE	CATCH BASIN DROP INLET	
U-L	UTILITY POLE WITH LIGHT	CULVERT	
P	POST	LIGHT POLE	
8632	SPOT ELEVATION	BC	BITUMINOUS CURBING
DT	DECIDUOUS TREE	BIT	BITUMINOUS PAVEMENT
CT	CONIFER TREE	CB	CATCH BASIN
S	SHRUB	CLF	CHAIN LINK FENCE
DI	DROP INLET ELEVATION	CM	CORRUGATED METAL PIPE
INW	PIPE INVERT ELEVATION	CNO	COULD NOT OPEN
NPV	NO PIPED VISIBLE		
TEMP.	TEMP. TRANSMISSION POLE		

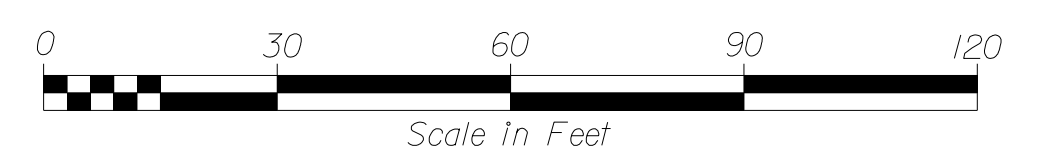
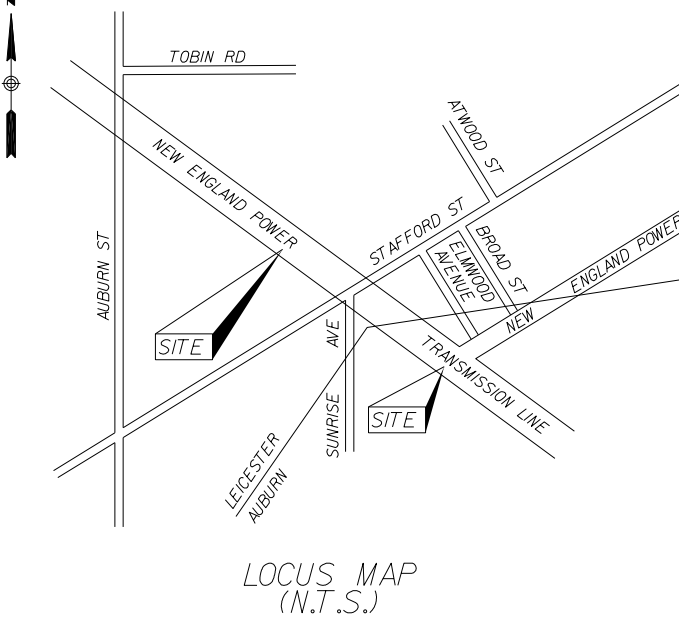
25'-FT NO DISTURBANCE ZONE
 FIELD DELINEATED WETLAND EDGE (TRC)
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 FIELD DELINEATED STREAM (TRC)
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- THE INTENT OF THIS PLAN IS TO SHOW THE LAND AND EASEMENTS OWNED BY THE NEW ENGLAND POWER COMPANY.
- TOPOGRAPHY AND PHOTOGRAMMETRY SHOWN ON THIS PLAN WERE COMPILED FROM AERIAL PHOTOS DATED APRIL 17TH, 2017.
- PROPERTY BOUNDARY AND WETLAND FLAG LOCATIONS SHOWN ON THIS PLAN WERE PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP BETWEEN JANUARY 9TH, 2015 AND JANUARY 26TH, 2020.
- THE HORIZONTAL DATUM SHOWN HEREON IS BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE, NORTH AMERICAN DATUM OF 1983.
- THE VERTICAL DATUM SHOWN HEREON REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- WETLANDS WERE DELINEATED, FLAGGED & LOCATED WITH SUB-METER ACCURATE GPS BY TRC IN NOVEMBER 2020.
- SITE SURVEY AND ACCESS ROAD INFORMATION SHALL BE REVISED DURING DETAILED DESIGN.



ISSUED FOR CLIENT REVIEW **PRELIMINARY**

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nationalgrid

NEW ENGLAND POWER COMPANY
 MASSACHUSETTS ELECTRIC COMPANY
STAFFORD ST. SWITCHING STATION NO. 2263
 STAFFORD STREET, LEICESTER, MASSACHUSETTS

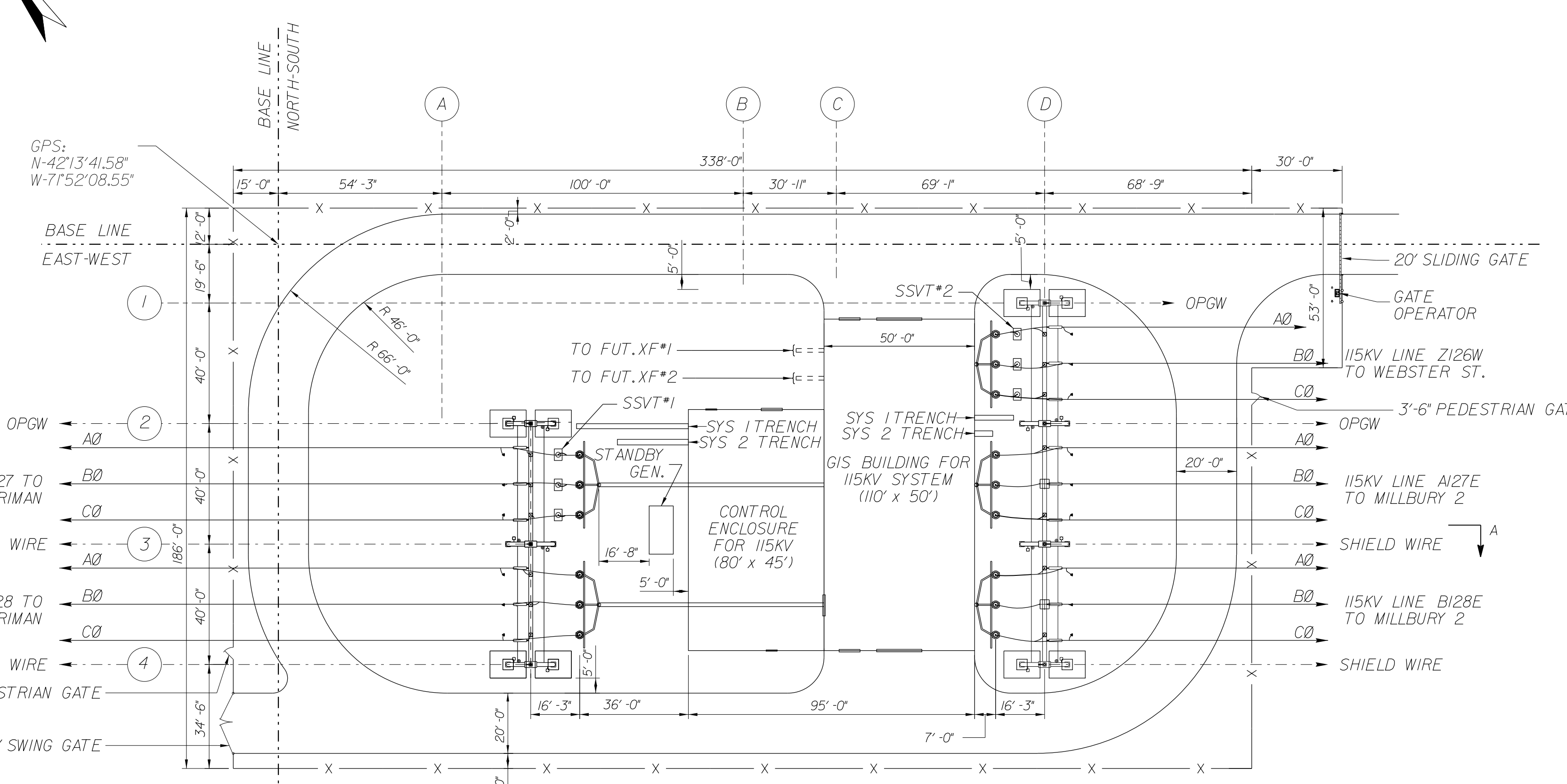
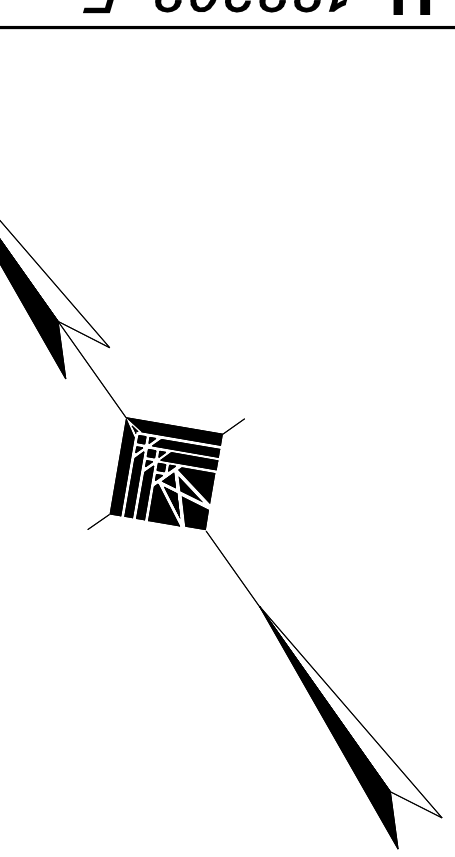
115KV-13.8KV
STATION LOCATION PLAN

SCALE 1"=30'-0"

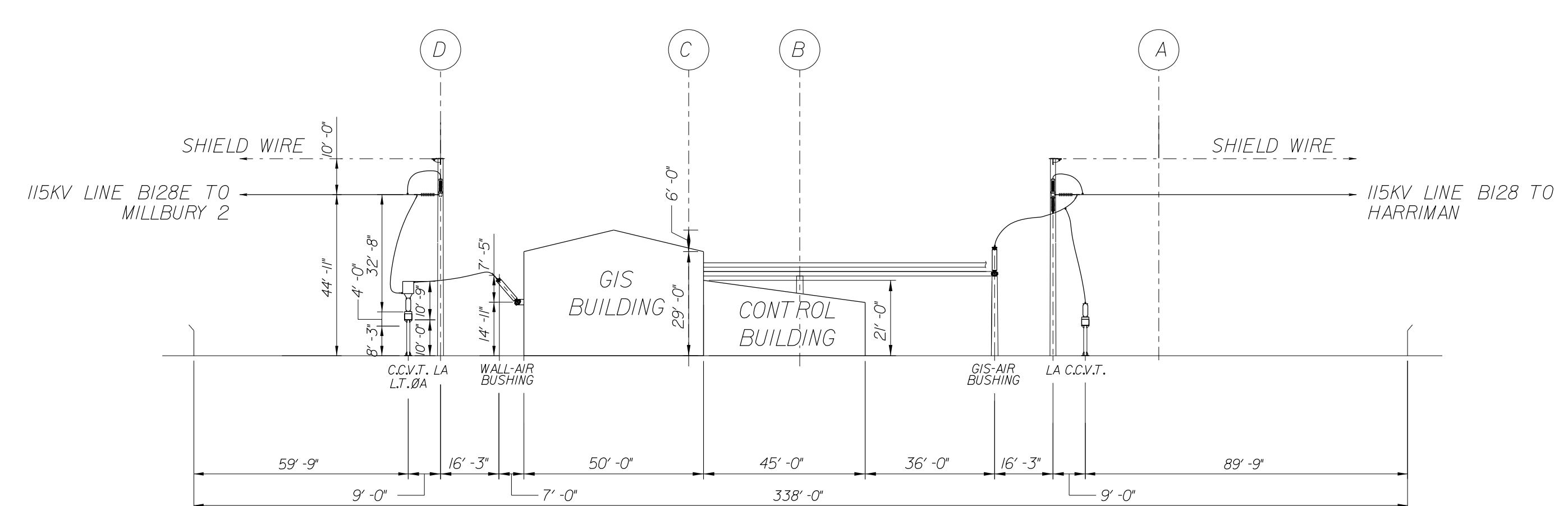
ORIGINAL DATE	REV.	DATE	DESCRIPTION	MADE	CHKD	INSP	REVD	APVD
	A	12/04/20	ISSUED FOR CLIENT REVIEW	RP/ B&V	RP/ B&V	CBK/ B&V		
	B	1/09/21	ISSUED FOR CLIENT REVIEW	RP/ B&V	RP/ B&V	CBK/ B&V		
	C	6/14/21	ISSUED FOR CLIENT REVIEW	CBK/ B&V	CBK/ B&V	CBK/ B&V		
	D	7/19/21	ISSUED FOR CLIENT REVIEW	JHW/ B&V	JHW/ B&V	KB/ B&V		

REVISIONS	REV.	DATE	DESCRIPTION	MADE	CHKD	INSP	REVD	APVD
	E	08/24/22	ISSUED FOR CLIENT REVIEW	RP/ B&V	RP/ B&V	CBK/ B&V		
	F	09/10/22	ISSUED FOR CLIENT REVIEW	RP/ B&V	RP/ B&V	CBK/ B&V		
	7			CBK/ B&V	CBK/ B&V	CBK/ B&V		
	8			JHW/ B&V	JHW/ B&V	KB/ B&V		

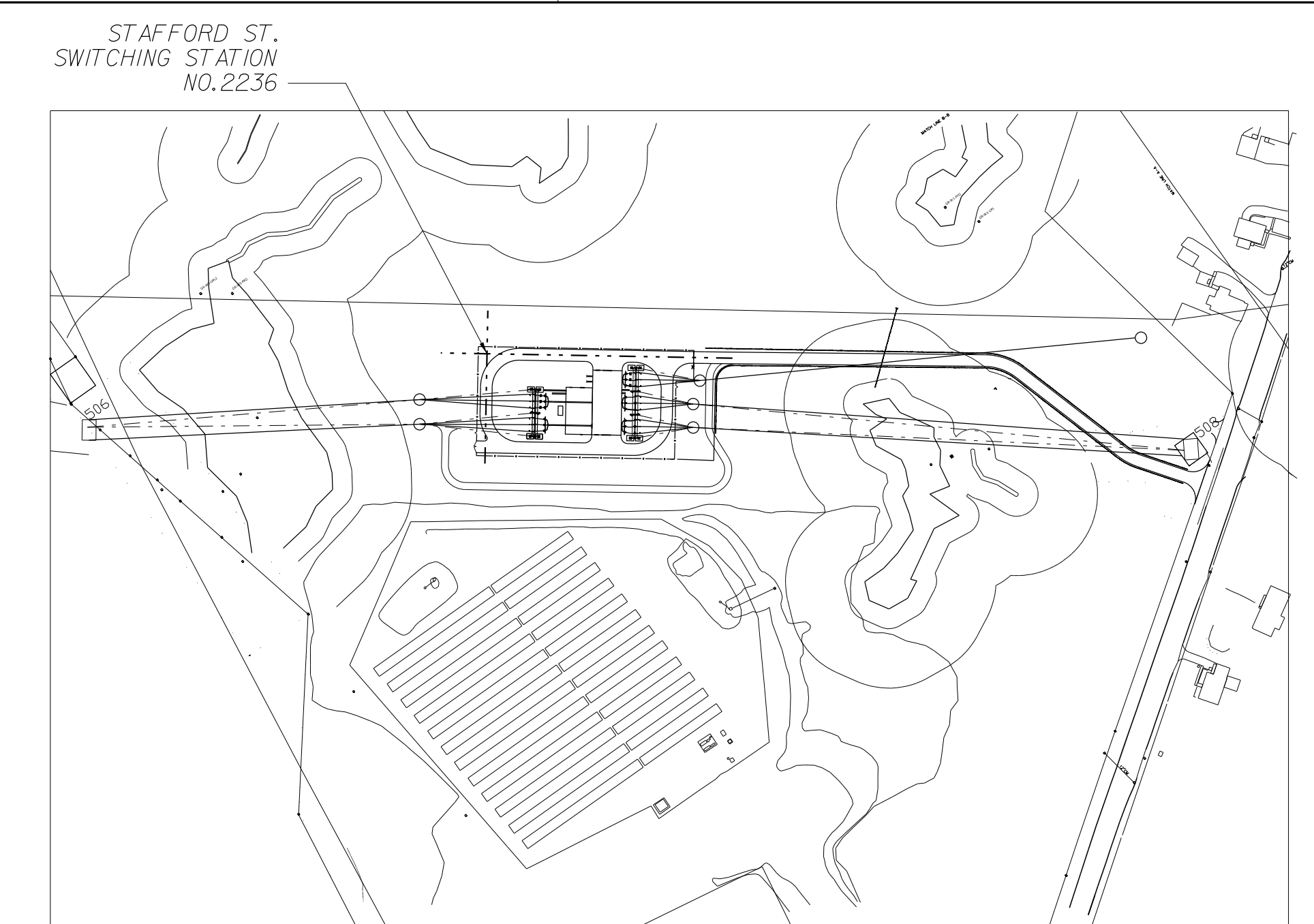
NOTED



PLAN



SECTION A-A



LOCATION MAP
NOT TO SCALE

NOTES

1. STATION SERVICE SUPPLY WILL BE FED FROM LOCAL DISTRIBUTION NETWORK.

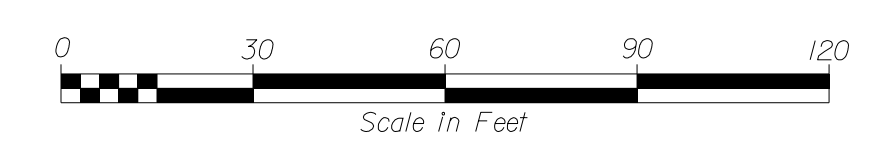
REFERENCE DRAWING

GRADING & DRAINAGE H-121393

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NEW ENGLAND POWER COMPANY
MASSACHUSETTS ELECTRIC COMPANY

STAFFORD ST. SWITCHING STATION NO. 2236

STAFFORD ST, LEICESTER, MASSACHUSETT

115KV
ULTIMATE LAYOUT

SCALE: 1" = 30'-0"

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