CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN · CONNECTICUT

MARCH 2023

CITY BID NO. 4041

PREPARED FOR

CITY OF NEW BRITAIN

27 WEST MAIN STREET
NEW BRITAIN, CT 06051
ERIN E. STEWART, MAYOR
MARK MORIARTY, P.E., DIRECTOR OF PUBLIC WORKS
ROBERT TROTTIER, P.E., CITY ENGINEER



PROJECT TEAM

GOLDEN AERIAL SURVEY, INC. 26 LAKESIDE BLVD E WATERBURY, CT 06708 TEL: (203) 426-3322 www.goldenaerialsurveys.com

SHEET INDEX

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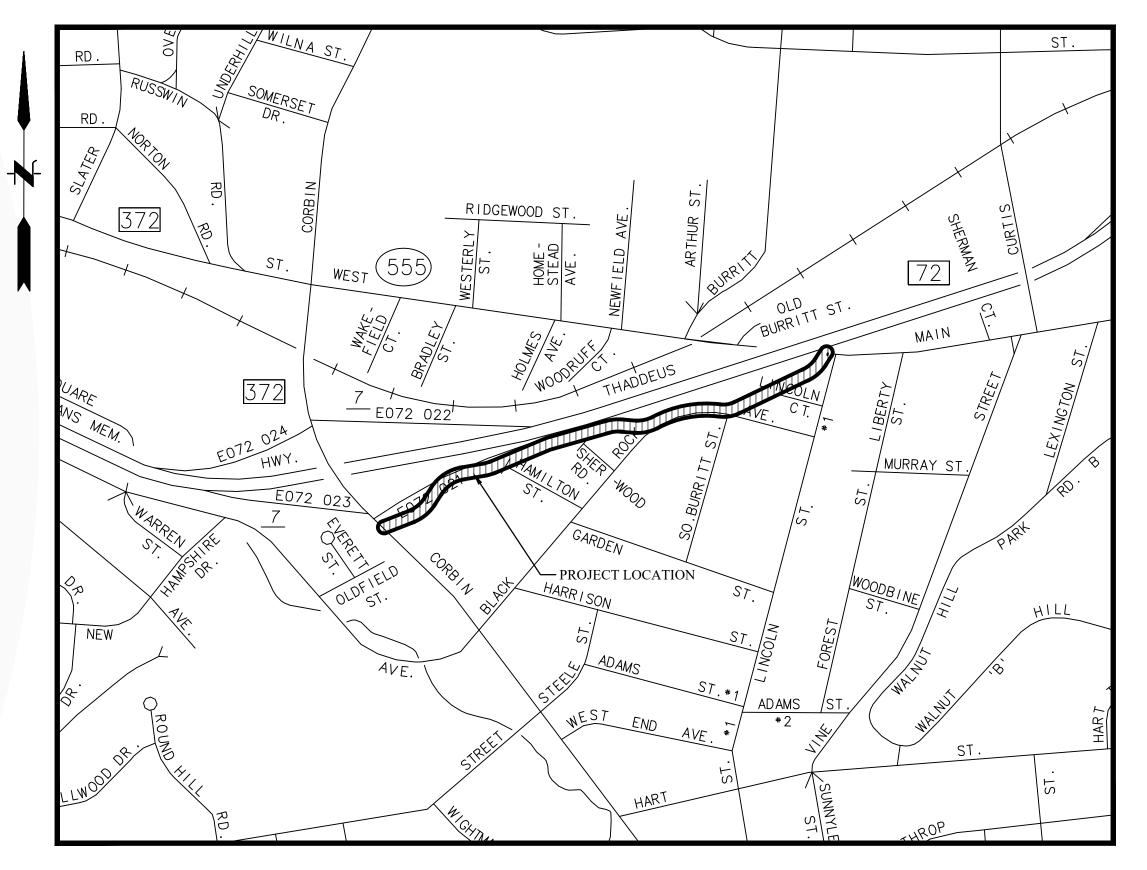
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CTDOT TRAFFIC STANDARD SHEETS



LOCATION MAP SCALE: 1" = 500'

GENERAL NOTES:

- 1. CONSTRUCTION SPECIFICATIONS:
- Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 818, dated 2020, Supplemental Specifications, dated July 2023 and Special Provisions

2. DESIGN:

- Connecticut Department of Transportation Highway Design Manual, dated 2003, revised 2020
- AASHTO Guide for the Development of Bicycle Facilities, dated 2012, revised 2018

3. SURVEY:

- Original survey by Fuss & O'Neill (May 2021)
- Supplemental survey by Golden Aerial (September 2021)
- Topographic Information based on NAD83 Horizontal and NAVD88 Vertical Datums

4. AVERAGE DAILY TRAFFIC (ADT):

- N/A

PROJ. No.: 20190754.A10
DATE: MARCH 2023

COV-01

FINAL DESIGN (100%) PLANS

<u>GENERAL</u>

- 1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- 2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
- 3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
- 4. BASE PLAN: THE ROUTE 72 NON-ACCESS HIGHWAY RIGHT OF WAY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY FUSS & O'NEILL, AND CONFORM TO HORIZONTAL CLASS A-2. REMAINING RIGHT OF WAY LINES, ABUTTING PROPERTY LINES AND STREETLINES ARE DEPICTED BASED ON ANALYSIS OF RECORD RESEARCH, GIS DATA AND COMPILATION OF DATA SUPPLEMENTED BY LIMITED FIELD MEASUREMENTS. IN THESE AREA'S RIGHT OF WAY LINES, ABUTTING PROPERTY, AND STREETLINES CONFORM TO HORIZONTAL CLASS D. THE TOPOGRAPHY DEPICTED ON THIS SURVEY CONFORMS TO THE ACCURACY OF A CLASS T-3 TOPOGRAPHIC SURVEY. THE TOPOGRAPHY WAS COMPILED BY GOLDEN AERIAL SURVEYS, INC. DURING MAY 2021 AND SUPPLEMENTED WITH FIELD SURVEY BY FUSS & O'NEILL INC. IN MAY & JUNE 2021.
- 6. TOPOGRAPHIC INFORMATION IS BASED ON NAD83 HORIZONTAL AND NAVD88 VERTICAL DATUMS.

PROSECUTION OF WORK

- 1. THE CONTRACTOR SHALL STAKE THE LIMITS OF TRAIL CORRIDOR CLEARING AND GRUBBING AND FIELD VERIFY WITH THE ENGINEER AND CITY OF NEW BRITAIN PRIOR TO PERFORMING PROJECT-WIDE CLEARING AND GRUBBING.
- 2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND EGRESS FROM ALL COMMERCIAL AND RESIDENTIAL DRIVEWAYS. IF A TEMPORARY DRIVEWAY CLOSURE IS NECESSARY, IT SHALL BE PERMITTED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR ITEM #0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
- 3. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE SUGGESTED SEQUENCE OF CONSTRUCTION AND AS LIMITED IN THE SPECIAL PROVISION FOR SEC. 1.08 - PROSECUTION AND PROGRESS.

REGULATORY REQUIREMENTS

- 1. PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION'S (CTDOT) STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020, SUPPLEMENTARY SPECIFICATIONS, DATED JULY 2022 AND SPECIAL PROVISIONS.
- 2. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2018 EDITION) AND WITH THE SPECIAL PROVISION FOR ITEM #0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
- 3. THE CONTRACTOR SHALL BE BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 4. PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING CONDITIONS AS SET FORTH PER CTDOT **ENCROACHMENT PERMIT #XXX:**

EROSION AND SEDIMENT CONTROL

- 1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE SEDIMENTATION & EROSION CONTROL PLANS.
- 2. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF. DUST. SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO THE CITY OR STATE.
- 3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER THE SCHEDULE IN THE SEDIMENTATION & EROSION CONTROL PLANS. DISPOSE OF SEDIMENT IN AN UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
- UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES AS NECESSARY. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN SYSTEMS AS DIRECTED BY THE ENGINEER. CLEANING OF PERMANENT STORM DRAIN STRUCTURES AND PIPES, AS DEEMED NECESSARY, SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 1.04.05 - EXTRA WORK OF FORM

CONSTRUCTION LAYOUT

- 1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
- 2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHT-OF-WAY.
- 3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
- 4. DIMENSIONS ARE FROM FACE OF CURB. FACE OF BUILDING, FACE OF WALL, AND CONSTRUCTION BASELINE. UNLESS NOTED OTHERWISE.
- 5. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR AT NO COST TO CITY OR STATE.

EARTHWORK

- 1. NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 72 HOURS BEFORE STARTING EXCAVATION.
- 2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.
- 3. ALL SURPLUS MATERIAL TAKEN FROM EXCAVATIONS WITHIN THE LIMITS OF THE STATE'S RIGHT-OF-WAY SHALL BE RE-USED WITHIN THE PROJECT LIMITS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

<u>UTILITIES</u>

- 1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
- 2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
- 3. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
- 4. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:

IN PAVEMENTS AND CONCRETE SURFACES: FLUSH IN SURFACES ALONG ACCESSIBLE ROUTES: FLUSH IN LANDSCAPE, SEEDED, AND OTHER EARTH SURFACE AREAS: 1 INCH ABOVE SURROUNDING AREA: TAPER EARTH TO RIM ELEVATION.

SITE RESTORATION

- 1. PROVIDE 4 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
- 2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO THE CITY OR STATE.
- 3. RESTORE AREAS DISTURBED OUTSIDE OF SLOPE LIMITS BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO THE CITY OR STATE.

LEGEND

(S) SANITARY MANHOLE

_____ CATCH BASIN

☐ FLARED END

● SOIL BORING

STORM MANHOLE

ELECTRIC MANHOLE

TELEPHONE MANHOLE

■ FLAT TOP CATCHBASIN

MONITOR WELL

© EXISTING IRON PIPE

• EXISTING DRILL HOLE

• IRON PIN TO BE SET

MAIL BOX

EXISTING MONUMENT

MONUMENT TO BE SET

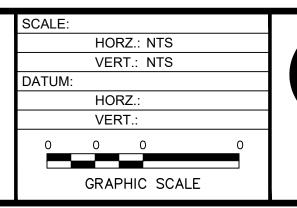
DOUBLE CATCHBASIN

EXISTING I.ROD OR I.PIN

	CONTROL POINT		PROPERTY LINE
o ^{WG}	WATER VALVE		EASEMENT LINE
<u> </u>	FIRE HYDRANT		EDGE OF WATER
*	UTILITY POLE		CURB
^	GUY WIRE		TREELINE
8	BOLLARD		
-o-	SIGN		STONE WALL
o ^{GG}	GAS GATE		WETLANDS
(W)	WELL		EXISTING CONTOUR
9	BUSH		INDEX CONTOUR
{ + }	DECIDUOUS TREE		CHAIN LINK FENCE
紫	PINE TREE		STOCKADE FENCE
	PEDESTRIAN WALK SIGNAL	x	WIRE FENCE
€	FLOOD LIGHT		GUIDE RAIL
₩F#	LIGHT WETLANDS FLAG	========	STORM DRAINAGE PIPE
	WETEANUS TEAU		SANITARY SEWER PIPE
		II	OVERHEAD WIRES
		w	WATER MAIN
		G	UNDERGROUND GAS
			UNDERGROUND TELEPHONE
		———Е——	UNDERGROUND ELECTRIC
			LEDGE LINE
			RAILROAD TRACK

FINAL DESIGN

SEAL SEAL **DESCRIPTION** No. DATE DESIGNER REVIEWE





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CITY OF NEW BRITAIN

NEW BRITAIN

GENERAL NOTES & LEGEND

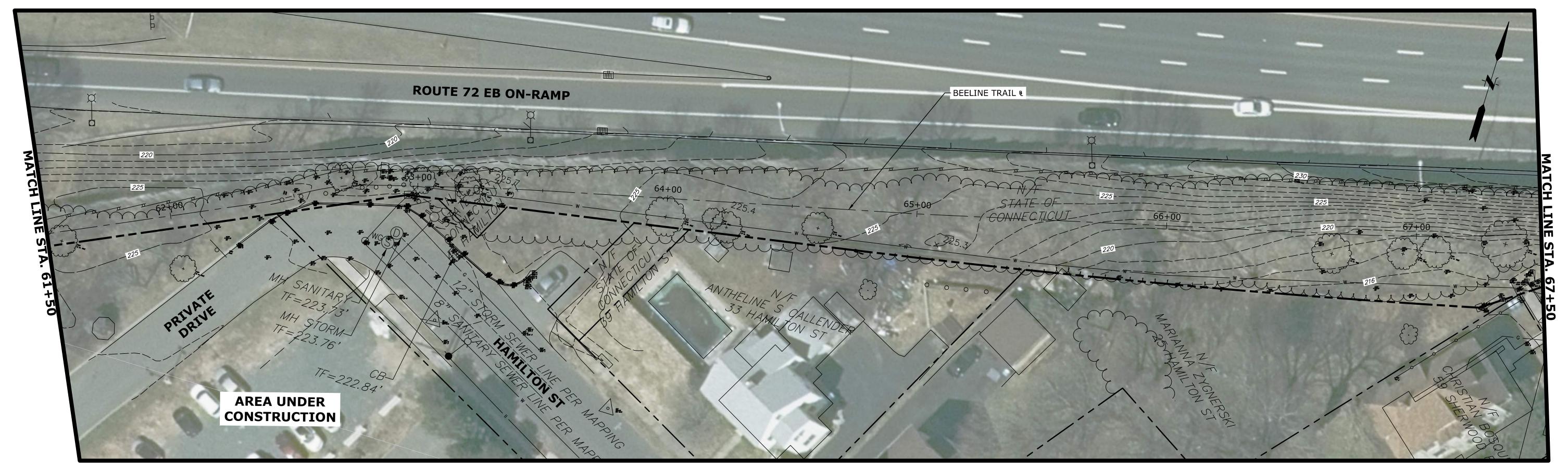
CONSTRUCTION OF BEELINE TRAIL - PHASE 2

CONNECTICUT

GEN-01

PROJ. No.: 20190754.A10

DATE: MARCH 2023



FINAL DESIGN

CONNECTICUT

1.		XX/XX	XX	SEAL	SEAL	SCALE: HORZ.: 1" = 20' VERT.: DATUM: HORZ.: NAD83 VERT.: NAVD88 20 10 0	FUSS&O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469 www.fando.com	
No. DATE	DESCRIPTION	· '	REVIEWER			GRAPHIC SCALE		NEW

CITY OF NEW BRITAIN

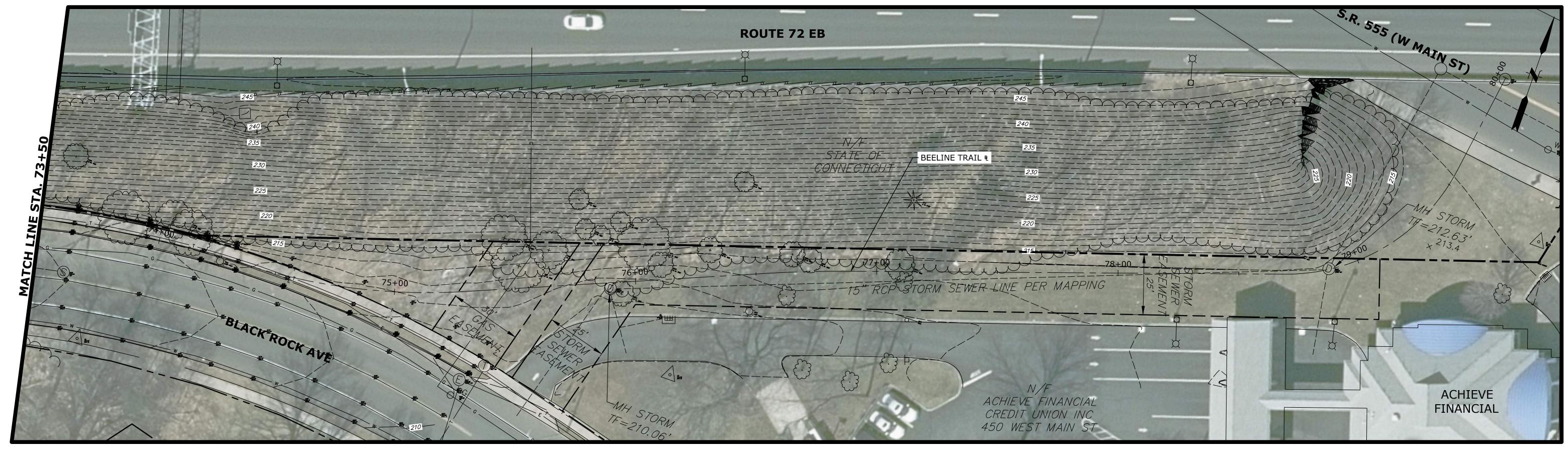
EXISTING CONDITIONS PLAN

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

PROJ. No.: 20190754.A10

DATE: MARCH 2023

EXC-01



FINAL DESIGN

CONNECTICUT



CITY OF NEW BRITAIN EXISTING CONDITIONS PLAN CONSTRUCTION OF BEELINE TRAIL - PHASE 2

EXC-02

PROJ. No.: 20190754.A10 DATE: MARCH 2023

CONNECTICUT

HORZ.: 1" = 100' VERT.: HORZ.: NAD83 VERT.: NAVD88 www.fando.com XX/XX XX
DESIGNER REVIEWER GRAPHIC SCALE DESCRIPTION

FUSS&O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

CITY OF NEW BRITAIN

INDEX PLAN

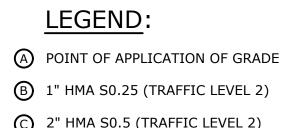
CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN

IND-01

PROJ. No.: 20190754.A10

DATE: MARCH 2023



B 1" HMA S0.25 (TRAFFIC LEVEL 2)

© 2" HMA S0.5 (TRAFFIC LEVEL 2)

(D) 6" PROCESSED AGGREGATE BASE

E 3" STONEDUST

F 4" TOPSOIL & TURF ESTABLISHMENT

G FORMATION OF SUBGRADE

(H) GEOTEXTILE (HIGH SURVIVABILITY)

ROOT CONTROL BARRIER (SEE MISC. DETAILS)

NOTES:

1. 4 FT PAVED TRAIL AND 1 FT GRADED SHOULDER

-STA. 61+31 TO STA. 63+54 -STA. 67+11 TO STA. 70+41

2. 4 FT PAVED TRAIL AND 1 FT GRADED SHOULDER

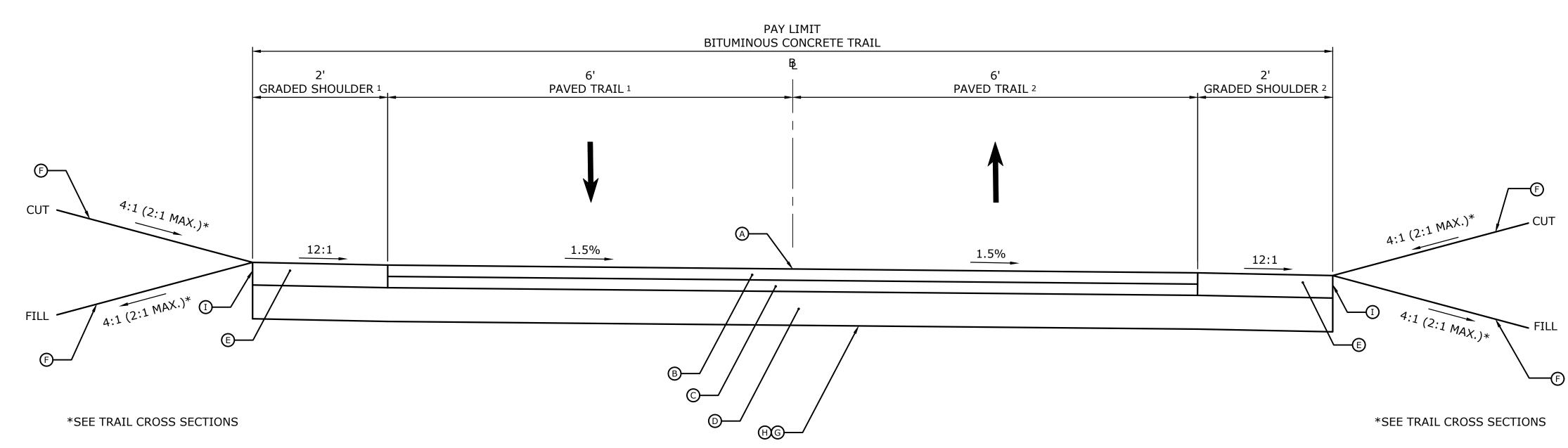
-STA. 61+37 TO STA. 63+54 -STA. 67+10 TO STA. 68+54

3. EROSION CONTROL MATTING TYPE D SHALL BE PLACED ON ALL SLOPES STEEPER THAN 3:1.

4. FORMATION OF SUBGRADE WILL NOT BE MEASURED DIRECTLY FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN ITEM #0922250A - BITUMINOUS CONCRETE TRAIL.

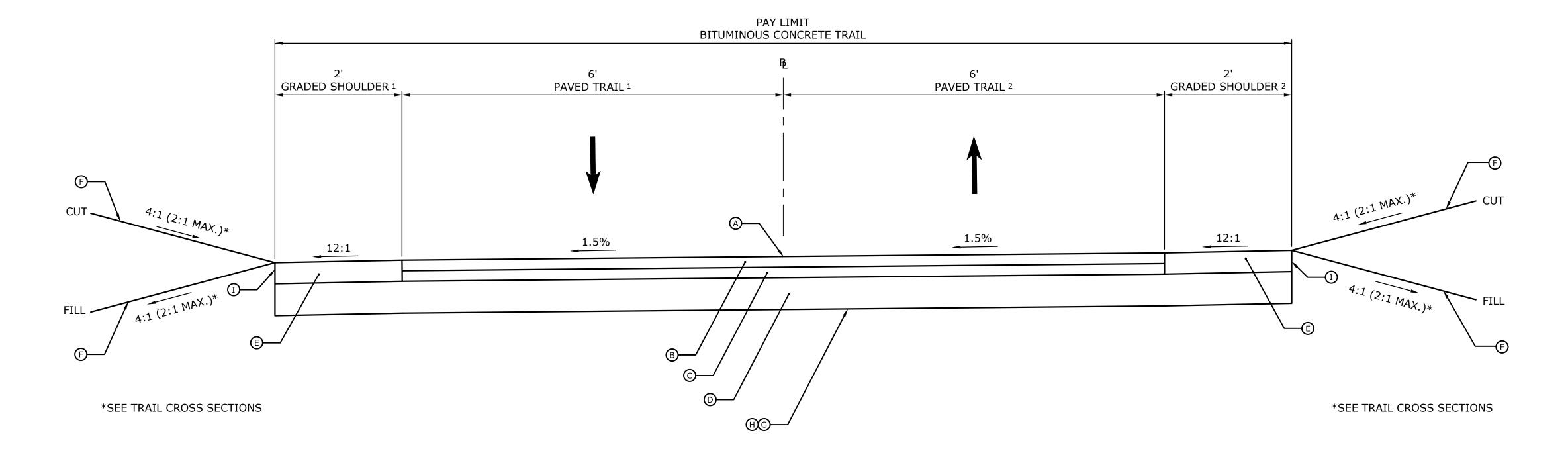
5. FINAL LIMITS OF ROOT BARRIER CONTROL AND GEOTEXTILE INSTALLATION WILL BE FIELD DETERMINED AND AS DIRECTED BY THE ENGINEER.

6. ADDITIONAL FILL AS NECESSARY SHALL BE SUITABLE SURPLUS EXCAVATION TAKEN FROM WITHIN THE STATE RIGHT-OF-WAY AND SHALL NOT CONTAIN ANY MATERIAL WHICH PASSES A NO. 200 SIEVE. FILL SHALL BE PLACED IN ACCORDANCE WITH SEC. 2.02.03 OF FORM 818.



BEELINE TRAIL - PITCH RIGHT

STA. 55+90 TO STA. 59+00 STA. 63+30 TO STA. 67+35 STA 69+48 TO STA. 71+98 STA. 74+30 TO STA. 79+65



BEELINE TRAIL - PITCH LEFT STA. 59+00 TO STA. 61+50

FINAL DESIGN



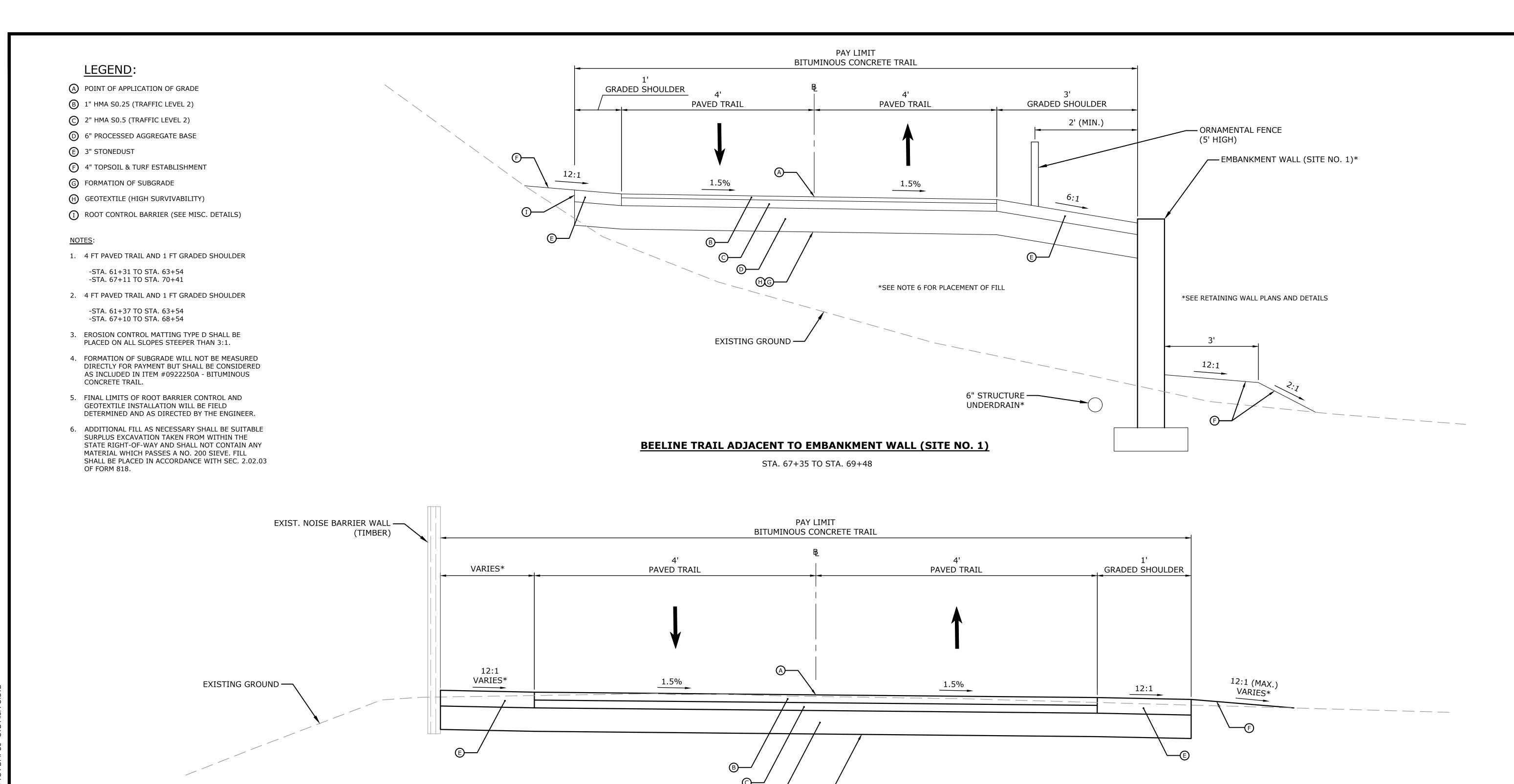
CITY OF NEW BRITAIN TYPICAL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

TXS-01 CONNECTICUT

PROJ. No.: 20190754.A10

DATE: MARCH 2023

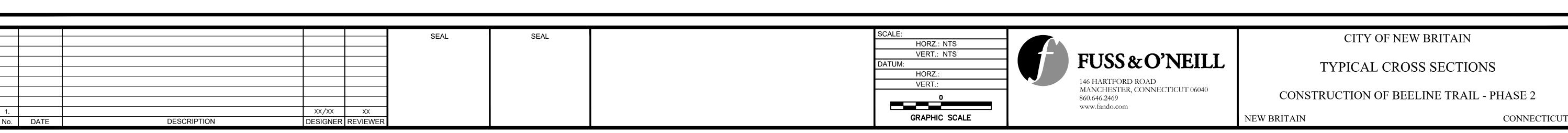


BEELINE TRAIL ADJACENT TO EXISTING NOISE BARRIER WALL (TIMBER)

STA. 61+50 TO STA. 63+30

FINAL DESIGN

*SEE TRAIL CROSS SECTIONS

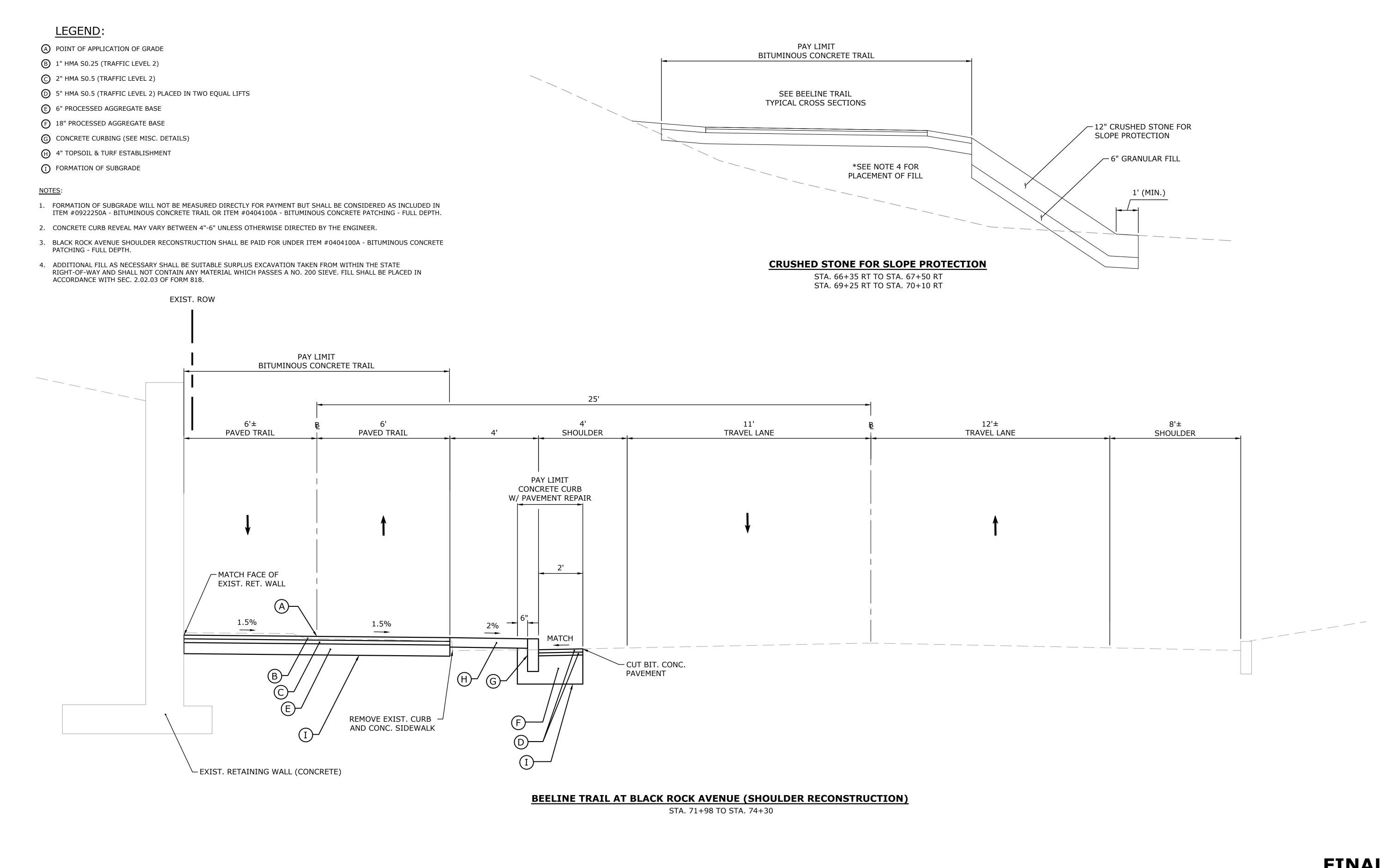


*SEE TRAIL CROSS SECTIONS

TXS-02

PROJ. No.: 20190754.A10

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FINAL DESIGN

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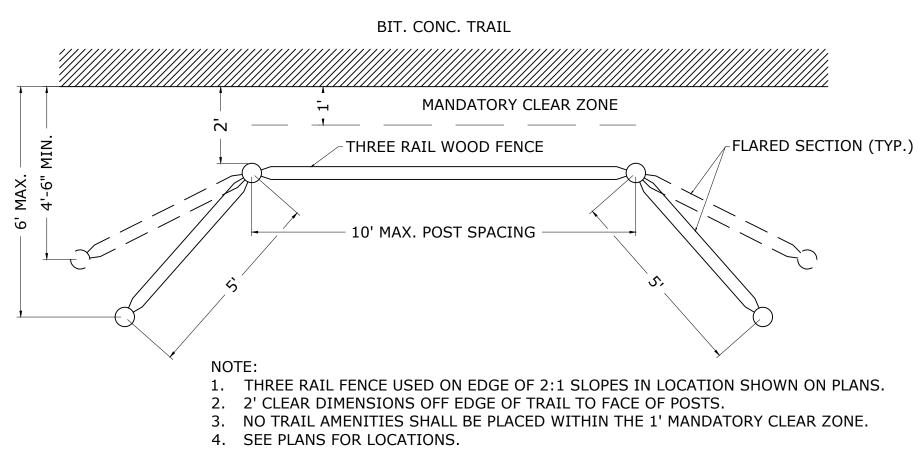


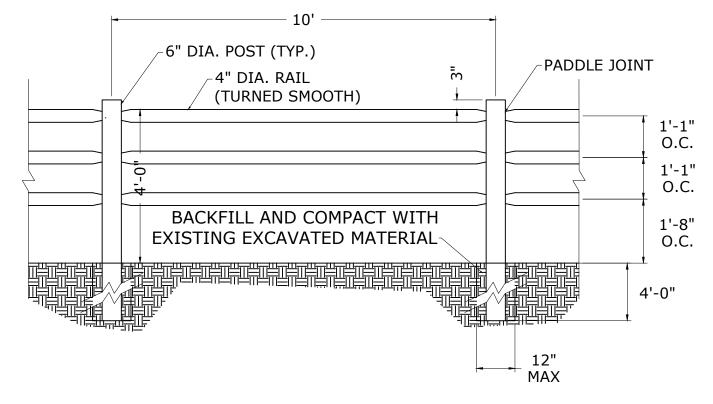
CITY OF NEW BRITAIN TYPICAL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN CONNECTICUT DATE: MARCH 2023 **TXS-03**

PROJ. No.: 20190754.A10





THREE RAIL WOOD FENCE

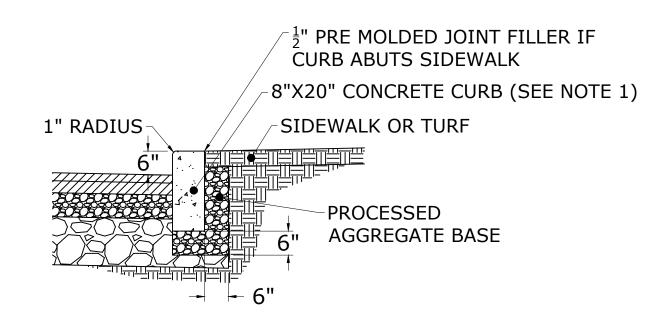
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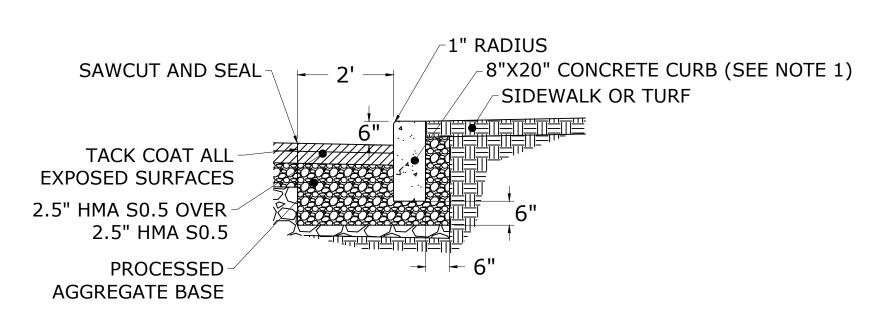
PROJ. No.: 20190754.A10 CITY OF NEW BRITAIN DATE: MARCH 2023 MISCELLANEOUS DETAILS CONSTRUCTION OF BEELINE TRAIL - PHASE 2

CONNECTICUT

MDS-01



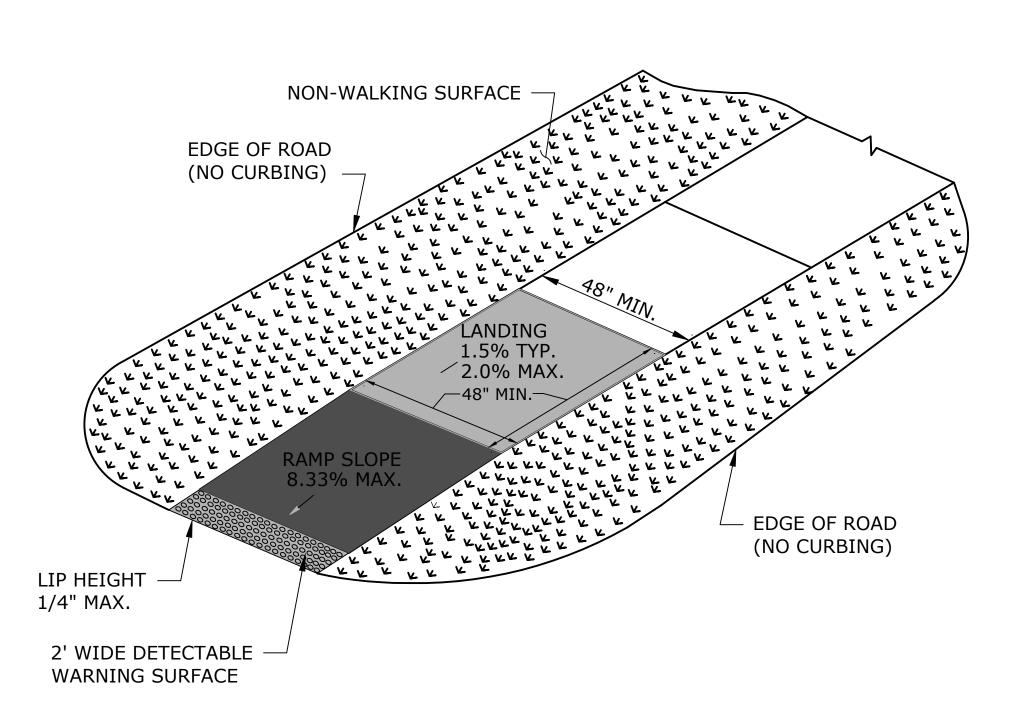
EXISTING ROAD WITHOUT PAVEMENT REPAIR



EXISTING ROAD WITH PAVEMENT REPAIR

- 1. CONCRETE TYPE SHALL BE CLASS PCC04460 AS DEFINED IN CTDOT FORM 818 SEC. M.03. MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 1800 PSI AT 7 DAYS AND 4400 PSI AT 28 DAYS.
- 2. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COURSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COURSE.
- 3. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF HMA S0.5 WHEN APPROVED BY THE CITY ENGINEER.

CONCRETE SIDEWALK RAMP (TYPE 17)



BROOM FINISH (TYP.) SMOOTH EDGING (TYP.)

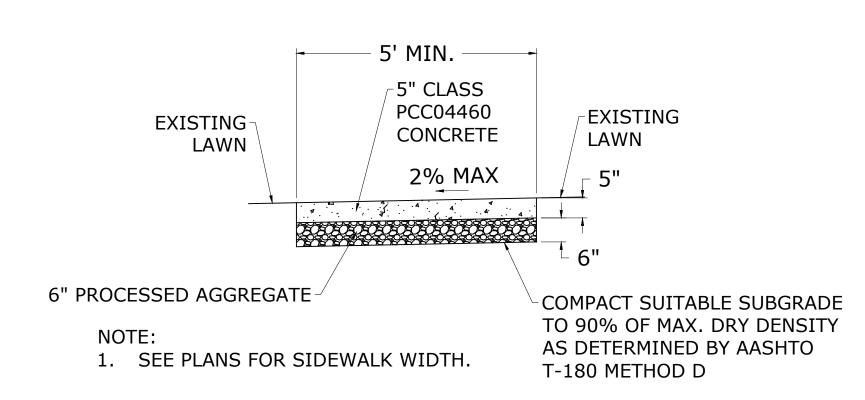
TOOLED JOINT

EXPANSION JOINT

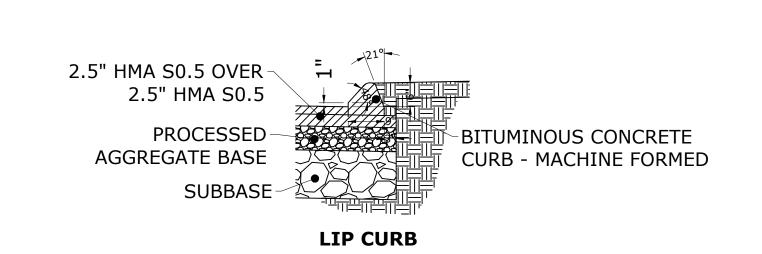
1. MAXIMUM 20' SPACING BETWEEN EXPANSION JOINTS FOR SIDEWALKS UP TO 7' WIDE. SIDEWALKS GREATER THAN 7' WIDE MAXIMUM SPACING OF 15'.

CONC. SIDEWALK JOINTING AND EDGING

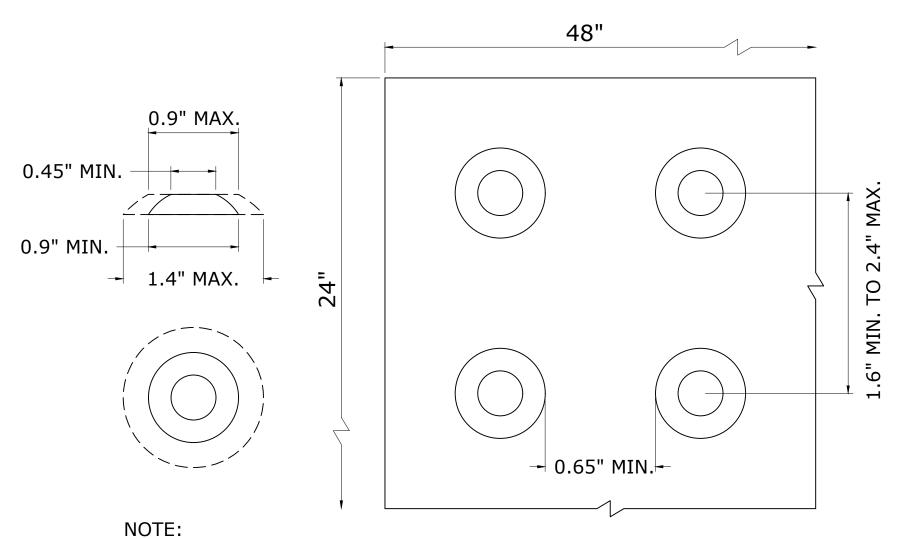
CONCRETE CURB



CONCRETE SIDEWALK



BITUMINOUS CONCRETE LIP CURB



1. THE DETECTABLE WARNING SURFACE SHALL BE A PREFABRICATED DETECTABLE WARNING SURFACE TILE THAT IS CAST-IN-PLACE TYPE AS MANUFACTURED FROM ALRETTILE DETECTABLE WARNING SYSTEMS, ADA SOLUTIONS, OR APPROVED EQUAL. THE TILE SHALL HAVE A BRICK RED HOMOGENEOUS COLOR IN COMPLIANCE WITH FEDERAL STANDARD 595A COLOR #2144 OR APPROVED EQUAL.

DETECTABLE WARNING SURFACE

FINAL DESIGN

				QFAI.	CEAL	SCALE:	T _
1. No. DATE	DESCRIPTION	XX/XX DESIGNER	XX REVIEWER	SEAL	SEAL	HORZ.: N.T.S. VERT.: DATUM: HORZ.: VERT.: GRAPHIC SCALE	FUSS & O'NEII 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469 www.fando.com

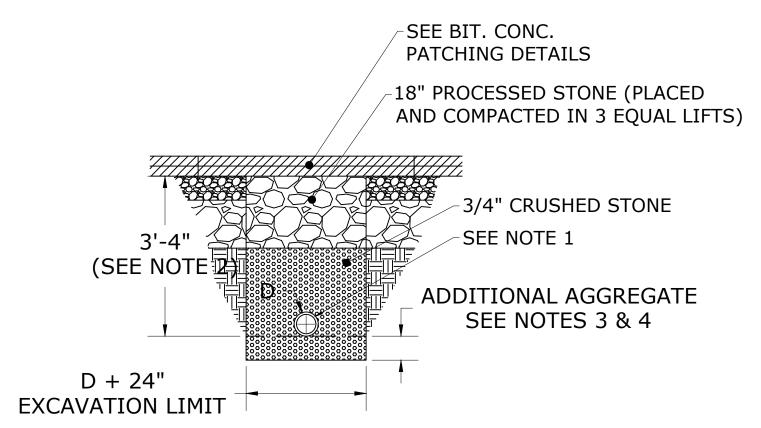
CITY OF NEW BRITAIN

MISCELLANEOUS DETAILS CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN CONNECTICUT

DATE: MARCH 2023 MDS-02

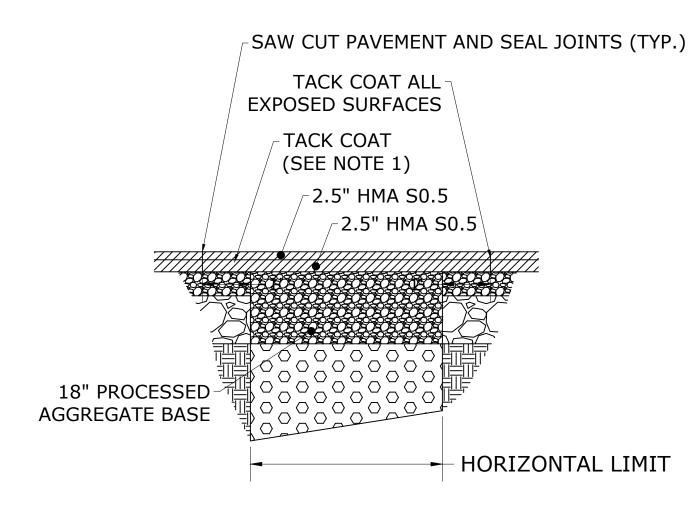
PROJ. No.: 20190754.A10



NOTES:

- SIZE OF PIPE AS SHOWN ON PLAN, PERFORATIONS TO BE PLACED UP FOR PIPES WHICH ALSO CARRY SUFACE WATER AND DOWN FOR PIPES WHICH ONLY CARRY SUBSURFACE WATER, UNLESS OTHERWISE DIRECTED.
- 2. DEPTH MAY BE VARIED FOR NECESSARY OUTLET GRADE.
- 3. 3" OF ADDITIONAL AGGREGATE TO BE PLACED UNDER PIPE WHEN HOLES ARE DOWN.
- 4. 6" OF ADDITIONAL AGGREGATE TO BE PLACED UNDER PIPE WHERE SUBGRADE IS UNSTABLE OR ROCK.

UNDERDRAIN

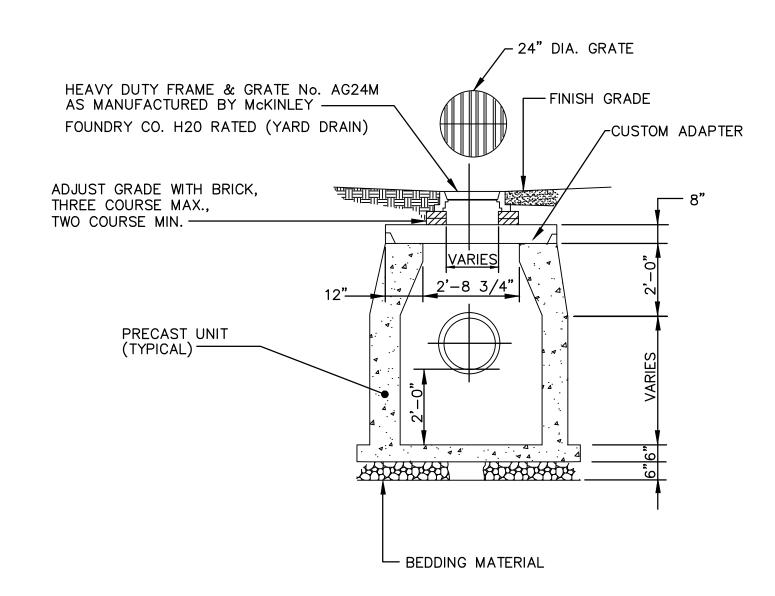


PERMANENT

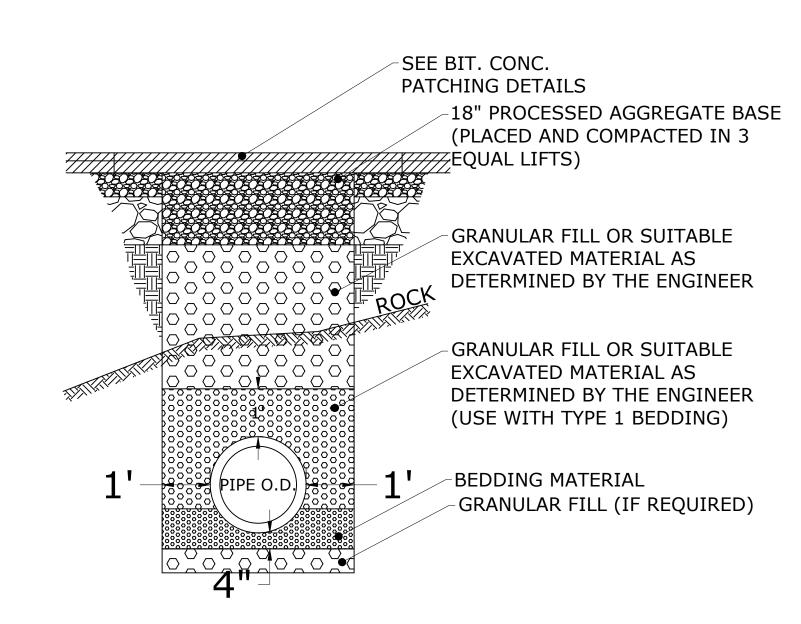
NOTES:

- 1. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COURSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COURSE.
- 2. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF HMA S0.5 WHEN APPROVED BY THE CITY ENGINEER.

BITUMINOUS CONCRETE PATCHING - FULL DEPTH



YARD DRAIN



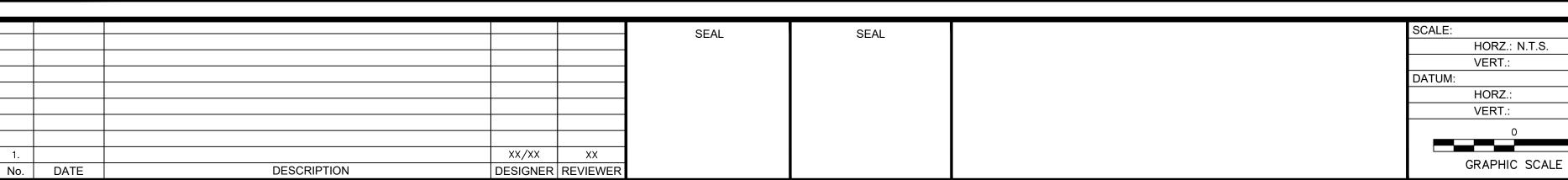
- 1. EXAMPLES OF RIGID PIPE ARE R.C.P. AND D.I.P.
- 2. PIPE BEDDING MATERIAL SHALL CONFORM TO SECTION M.08.03
- 3. GRANULAR FILL SHALL CONFORM TO SECTION M.02.01 GRADING C

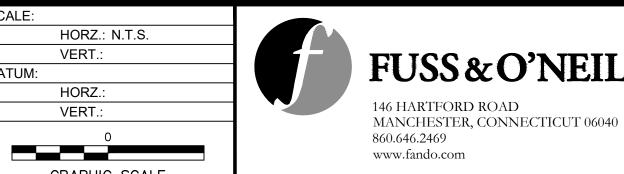
BEDDING TYPE PLACEMENT CHART									
BEDDING TYPE	PIPE SIZE	DEPTH BELOW PIPE	HEIGHT ABOVE INV.	HEIGHT ABOVE PIPE					
TYPE I	LESS THAN 48"	4" (EARTH)	25% PIPE O.D.	-					
ITPEI		12" (ROCK)							
TYPE II	48" AND	4" (EARTH)		12"					
1175 11	LARGER	12" (ROCK)	-	12					

TRENCH EXCAVATION AND BACKFILL - RIGID PIPE

FINAL DESIGN

CONNECTICUT







MISCELLANEOUS DETAILS

NEW BRITAIN

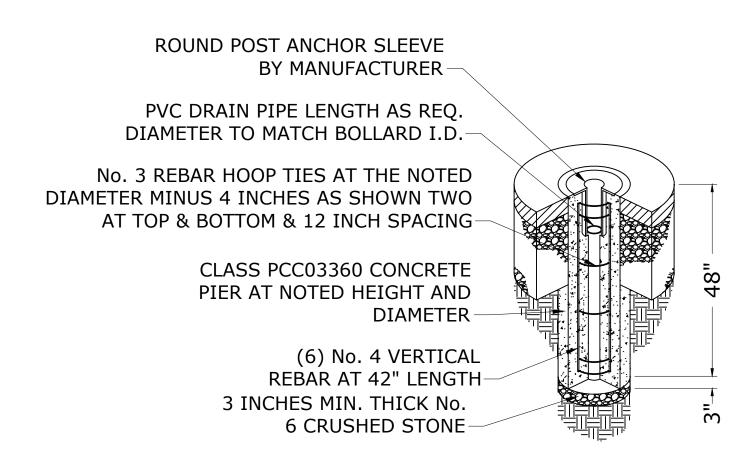
CONSTRUCTION OF BEELINE TRAIL - PHASE 2

CITY OF NEW BRITAIN

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PROJ. No.: 20190754.A10

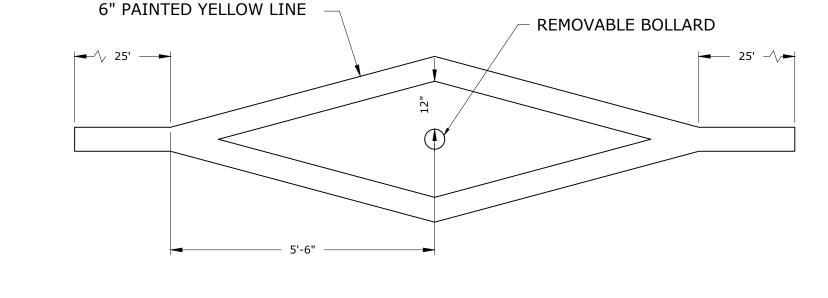
DATE: MARCH 2023



NOTE:

1. ALL CONCRETE, SLEEVE, REBAR, DRAIN PIPE, SONO-TUBE AND ANY OTHER REQUIRED MATERIAL FOR FOUNDATION IS PAID FOR UNDER PRICE OF BOLLARD.

REMOVABLE STEEL BOLLARD FOUNDATION



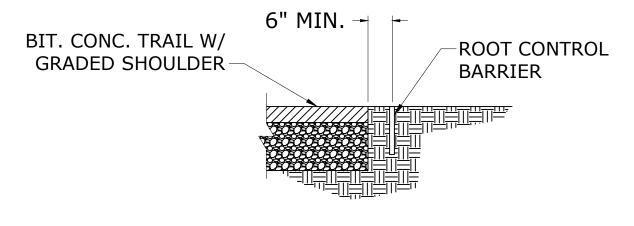
STEEL BOLLARD - REMOVABLE

PAVEMENT MARKINGS AT BOLLARD

-FOUNDATION - SEE

DETAIL THIS SHEET

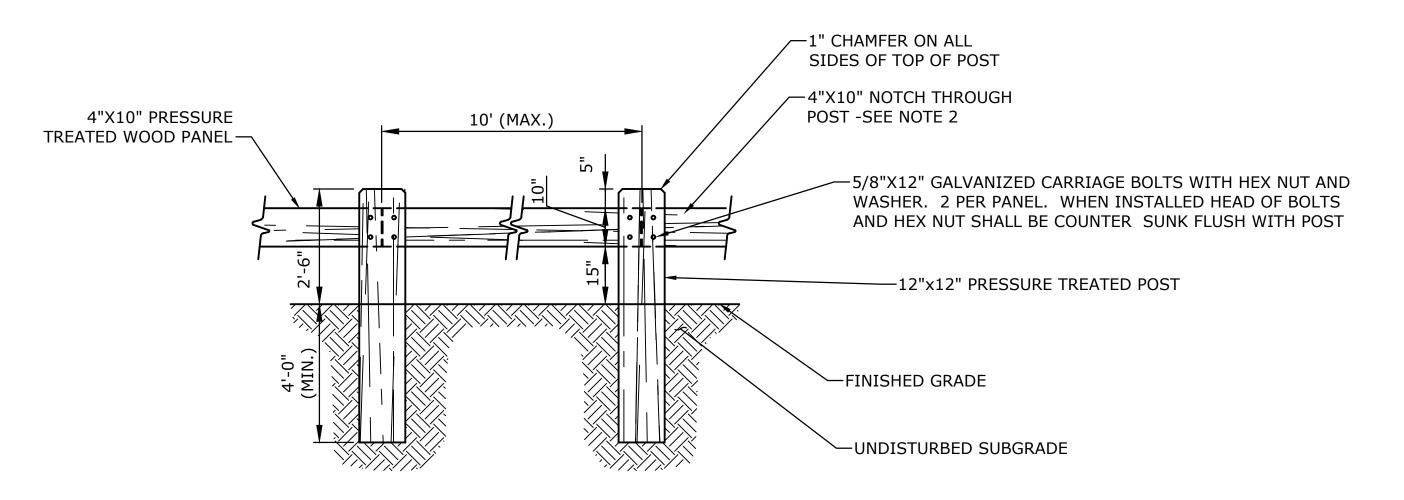
FINISHED GRADE



NOTE:

- 1. ROOT CONTROL SYSTEM (ROOT BARRIER) INSTALLED TO A DEPTH OF 6 INCHES AS FIELD DETERMINED BY THE CITY ENGINEER.
- 2. ROOT CONTROL SHALL BE INSTALLED AT A MINIMUM OF 6 INCHES AND A MAXIMUM OF 12 INCHES FROM EDGE OF TRAIL GRADED SHOULDER.

ROOT CONTROL BARRIER



FLAT METAL TOP-

COLOR: YELLOW-

STAINLESS STEEL

EMBEDMENT SLEEVE-

SEE SPECIFICATION FOR BOLLARD

MANUFACTURER AND MODEL NUMBER -

POWDER COATED STAINLESS STEEL BOLLARD

NOTES:

1. LUMBER SHALL BE ROUGH SAWN (NON-PLANED) PRESSURE TREATED SOUTHERN

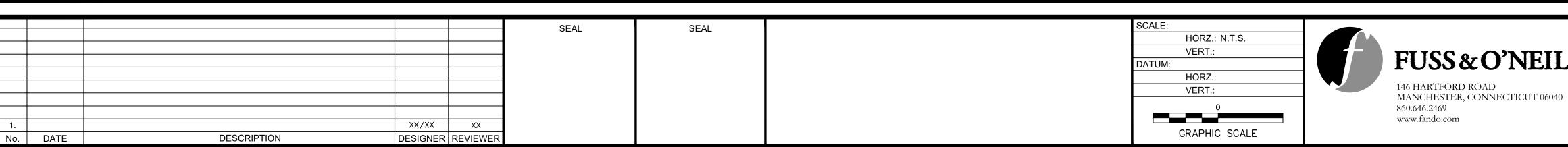
- 2. POSTS SHALL HAVE 4"X10" NOTCH THROUGH SIDE OF POST TO RECEIVE GUIDERAIL PANELS. TOP OF OPENING SHALL BE 5" FROM TOP OF POST.
- 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. ENGINEER MAY REQUEST FURNISHED SAMPLE AT NO ADDITIONAL COST.

TIMBER BEAM RAIL

FINAL DESIGN

PROJ. No.: 20190754.A10

DATE: MARCH 2023



FUSS&O'NEILL

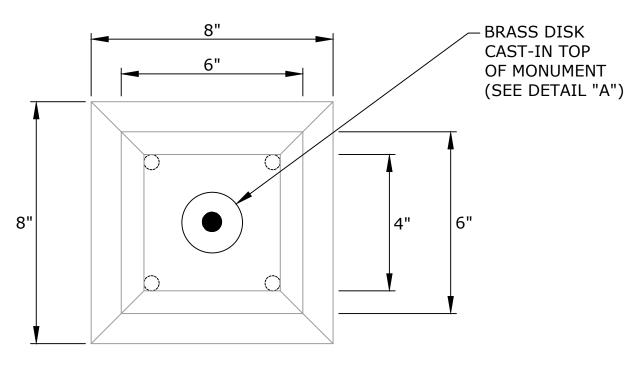
CITY OF NEW BRITAIN

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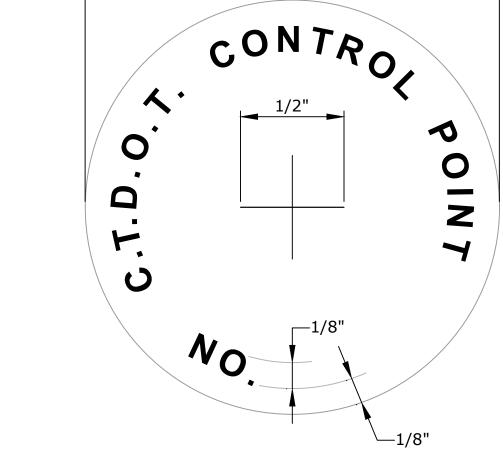
CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN

CONNECTICUT



PLAN



2" DIA.

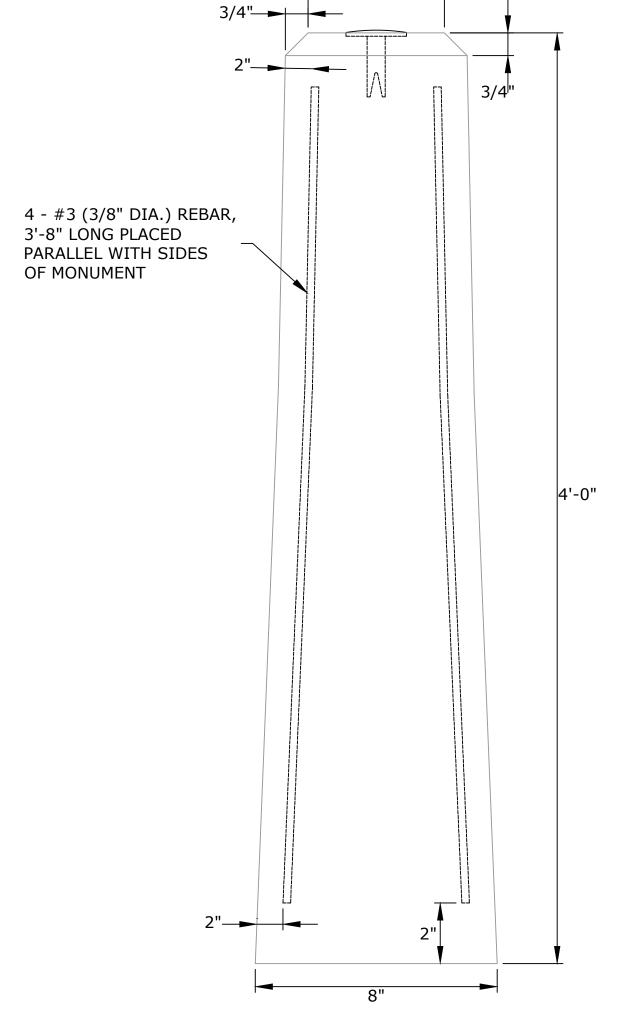
BOUNDARY

PLAN

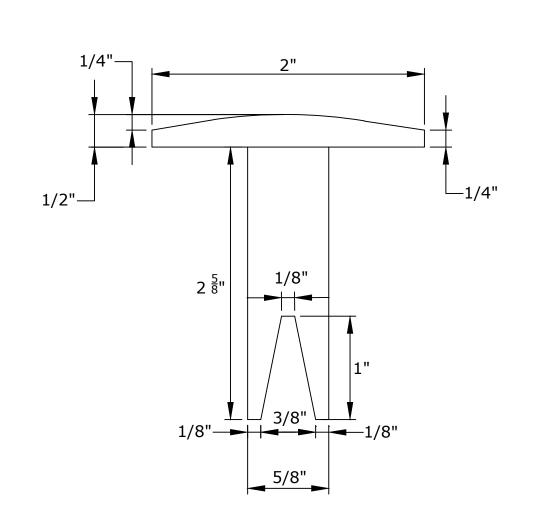
2" DIA. BASE LINE

GENERAL NOTES:

- REINFORCING STEEL DEFORMED BARS SHALL CONFORM TO LATEST ASTM SPECIFICATION A615, GRADE 60 MIN. COVER 2".
- USE CLASS PCC 04460 CONCRETE. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI AT 28 DAYS SELF COMPACTING CONCRETE MIX.
- MANUFACTURER IS TO CONTACT DOT DISTRICT SURVEY BOUNDARY RIGHT-OF-WAY SURVEY FOR SURVEY DISK.
- CTDOT DISKS SHALL BE PLACED IN LEDGE AT 3" DEPTH WITH HYDRAULIC CEMENT OR ANCHORING CEMENT.
- A #6 (3/4" DIA.) REINFORCING BAR WITH ALUMINUM CAP (PROVIDED BY DOT) 3' LONG MAY BE USED AS DIRECTED BY THE SURVEYOR.



ELEVATION



ELEVATION DETAIL "A"

FINAL DESIGN

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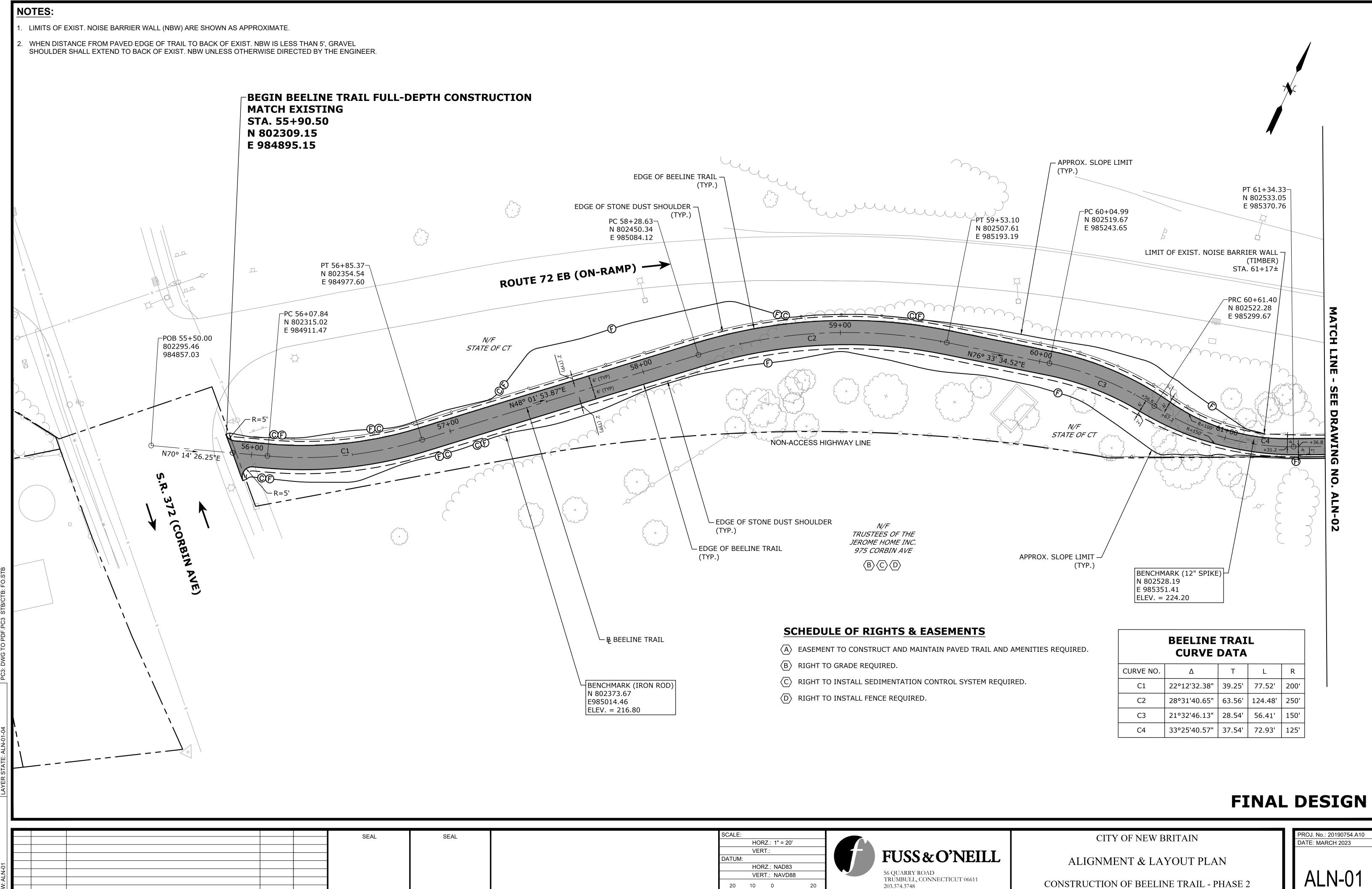
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CITY OF NEW BRITAIN

MISCELLANEOUS DETAILS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN CONNECTICUT PROJ. No.: 20190754.A10 DATE: MARCH 2023



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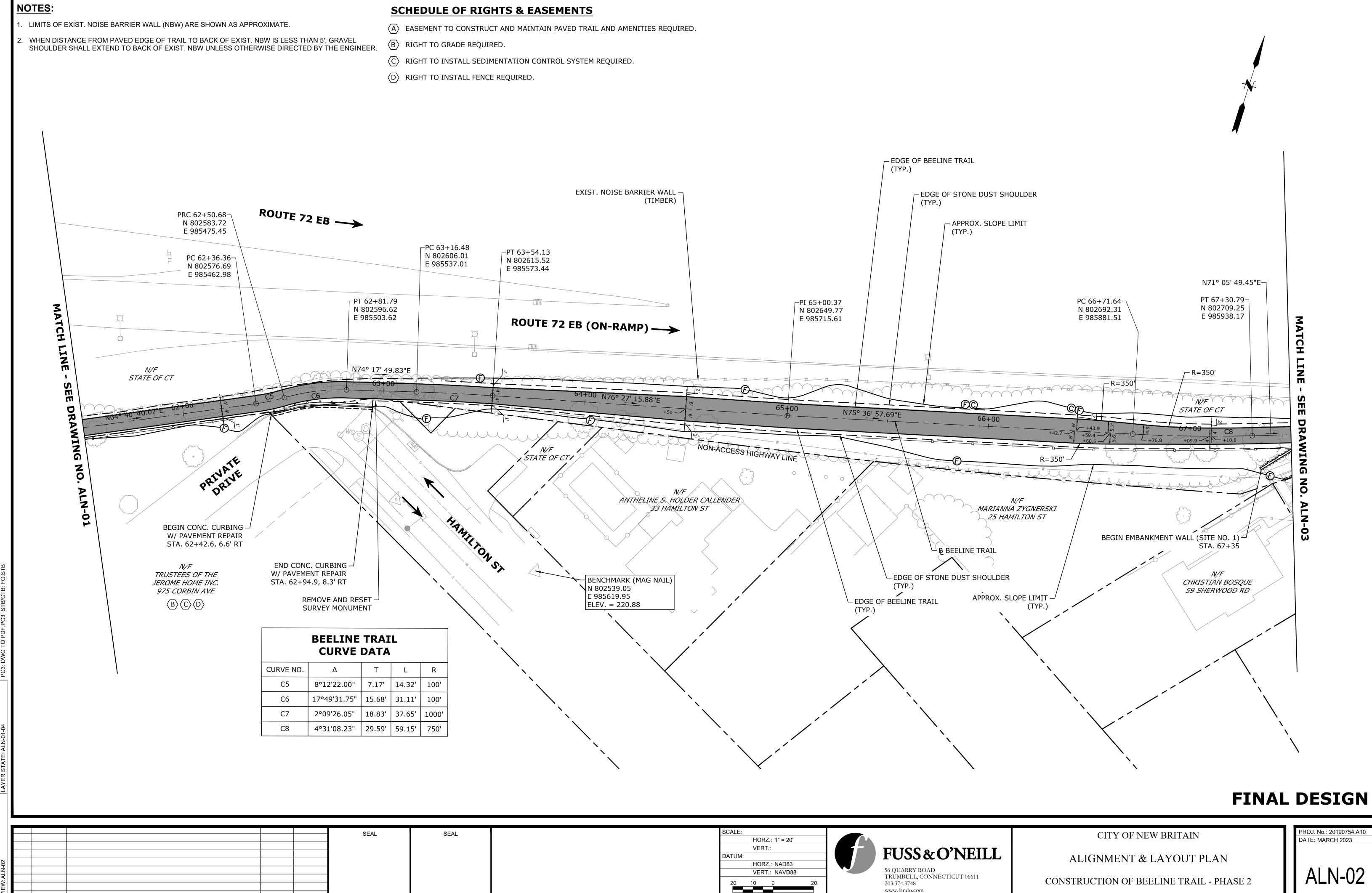
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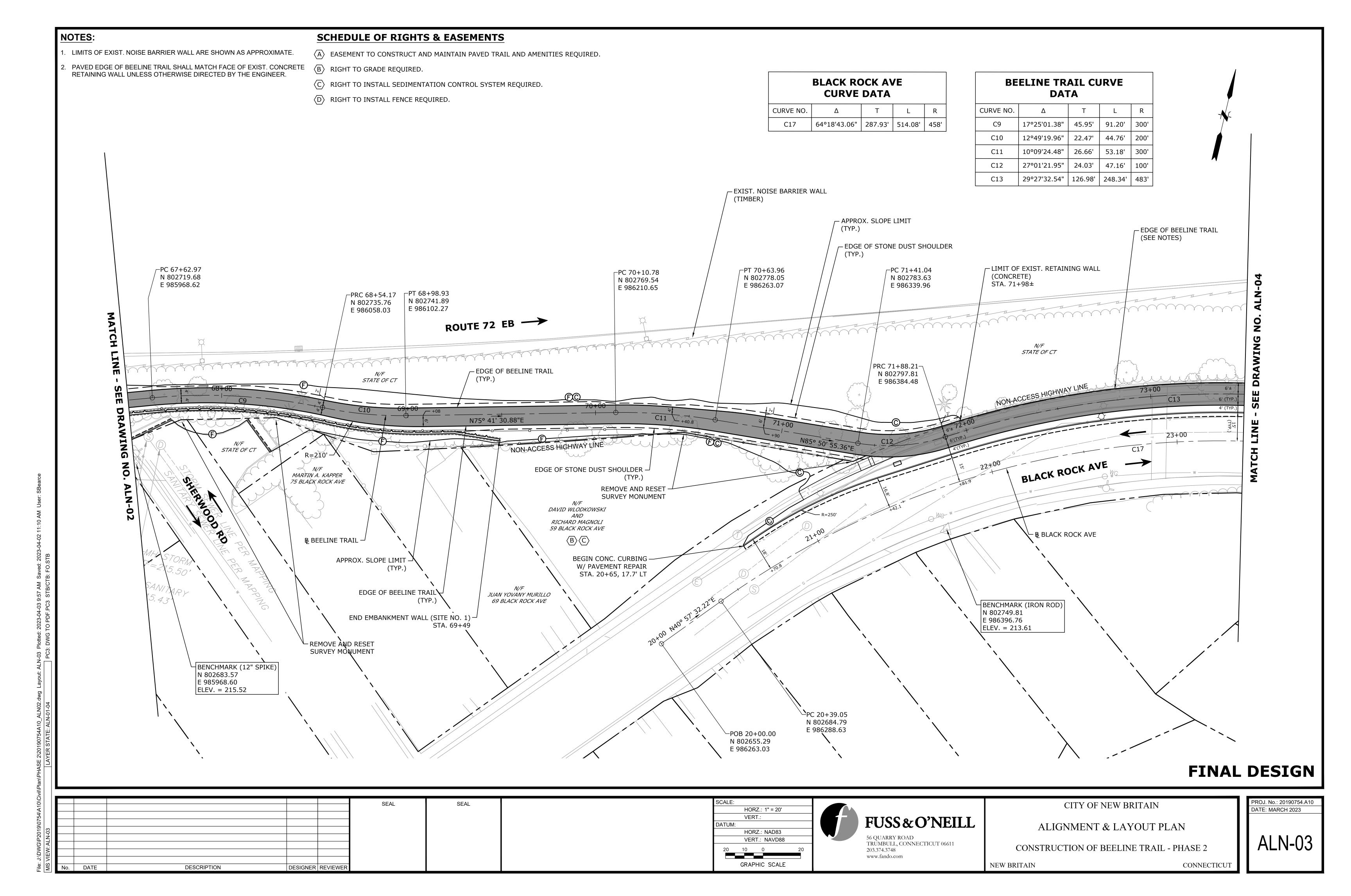
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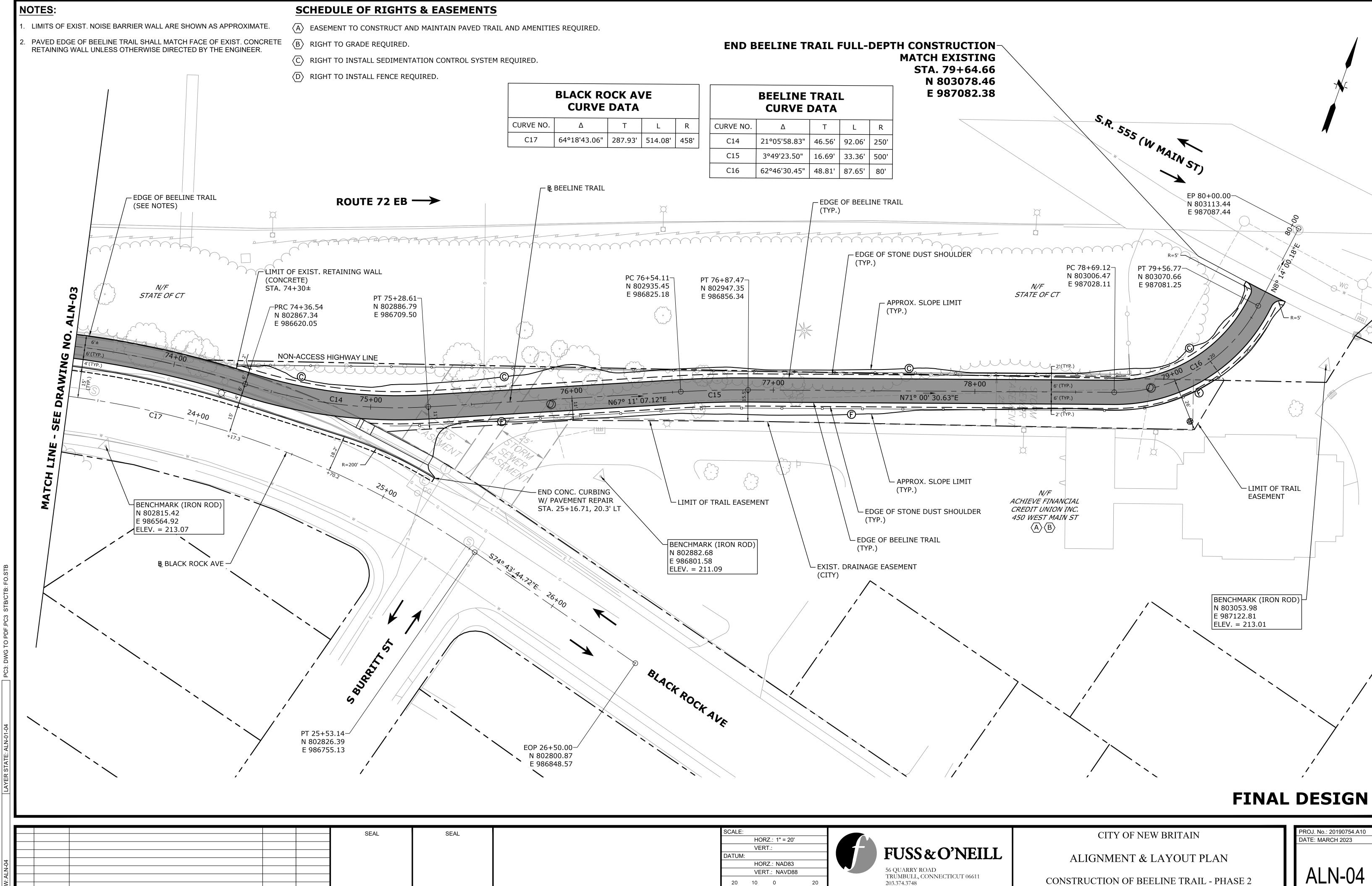
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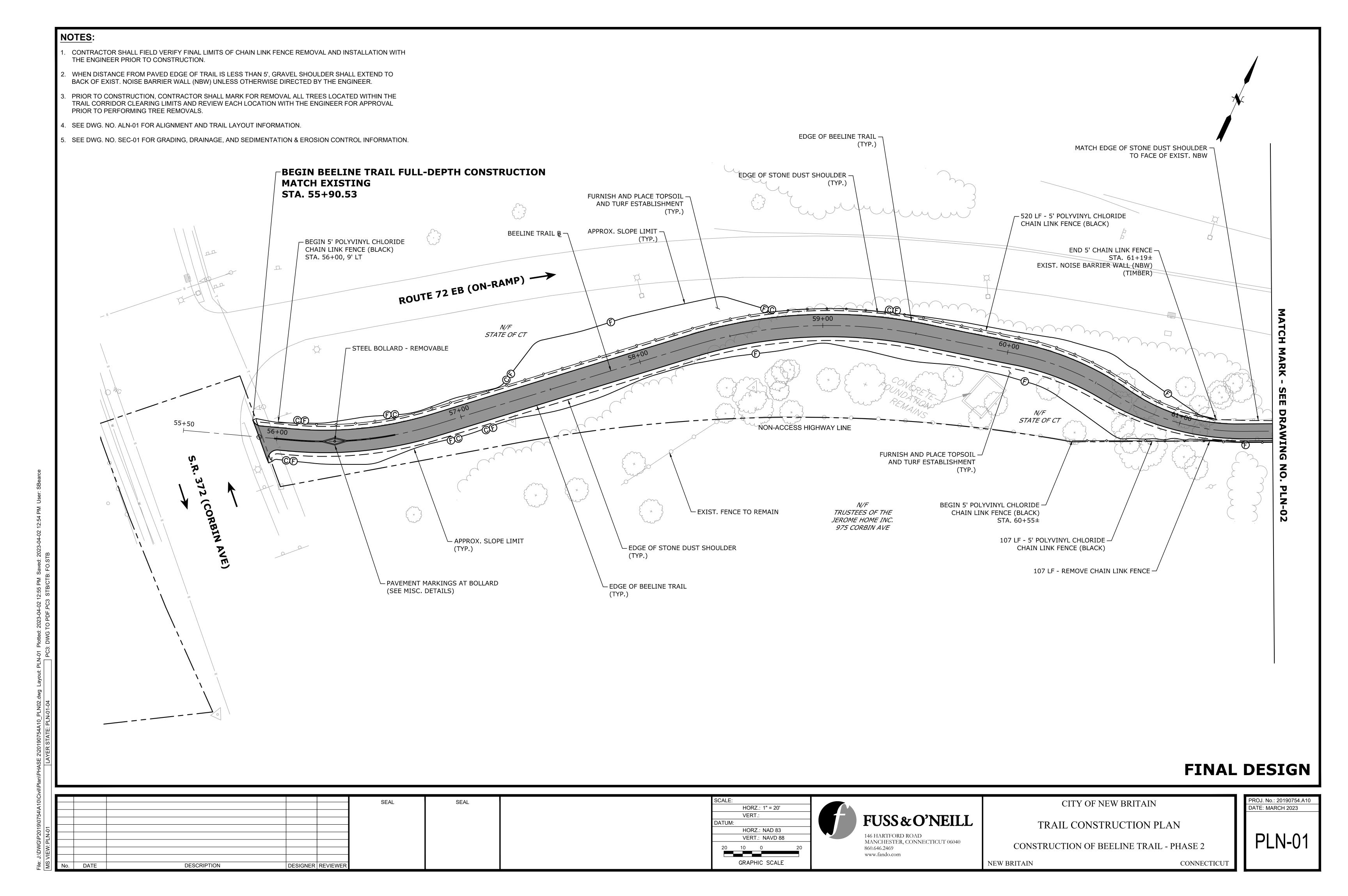
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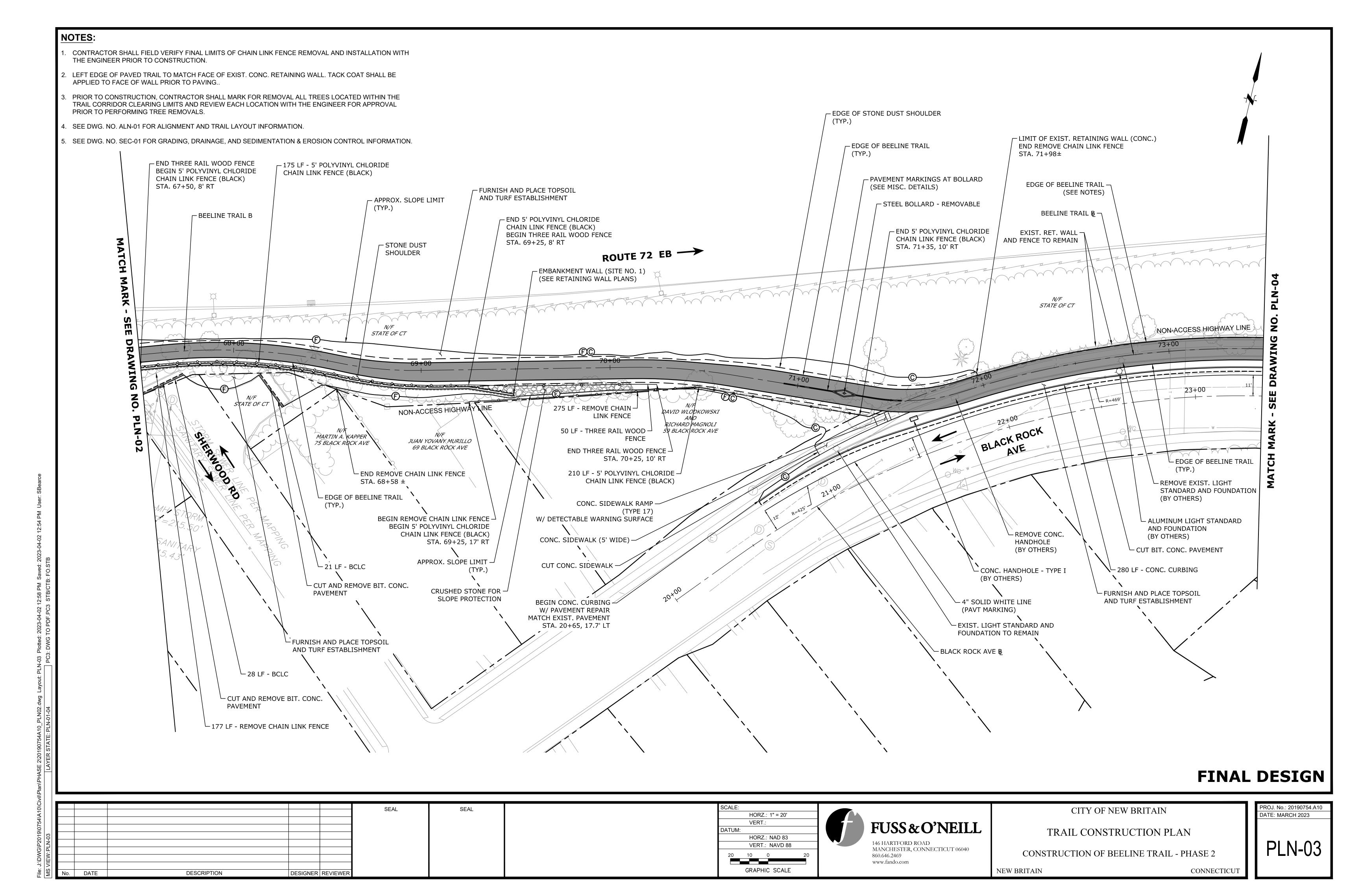
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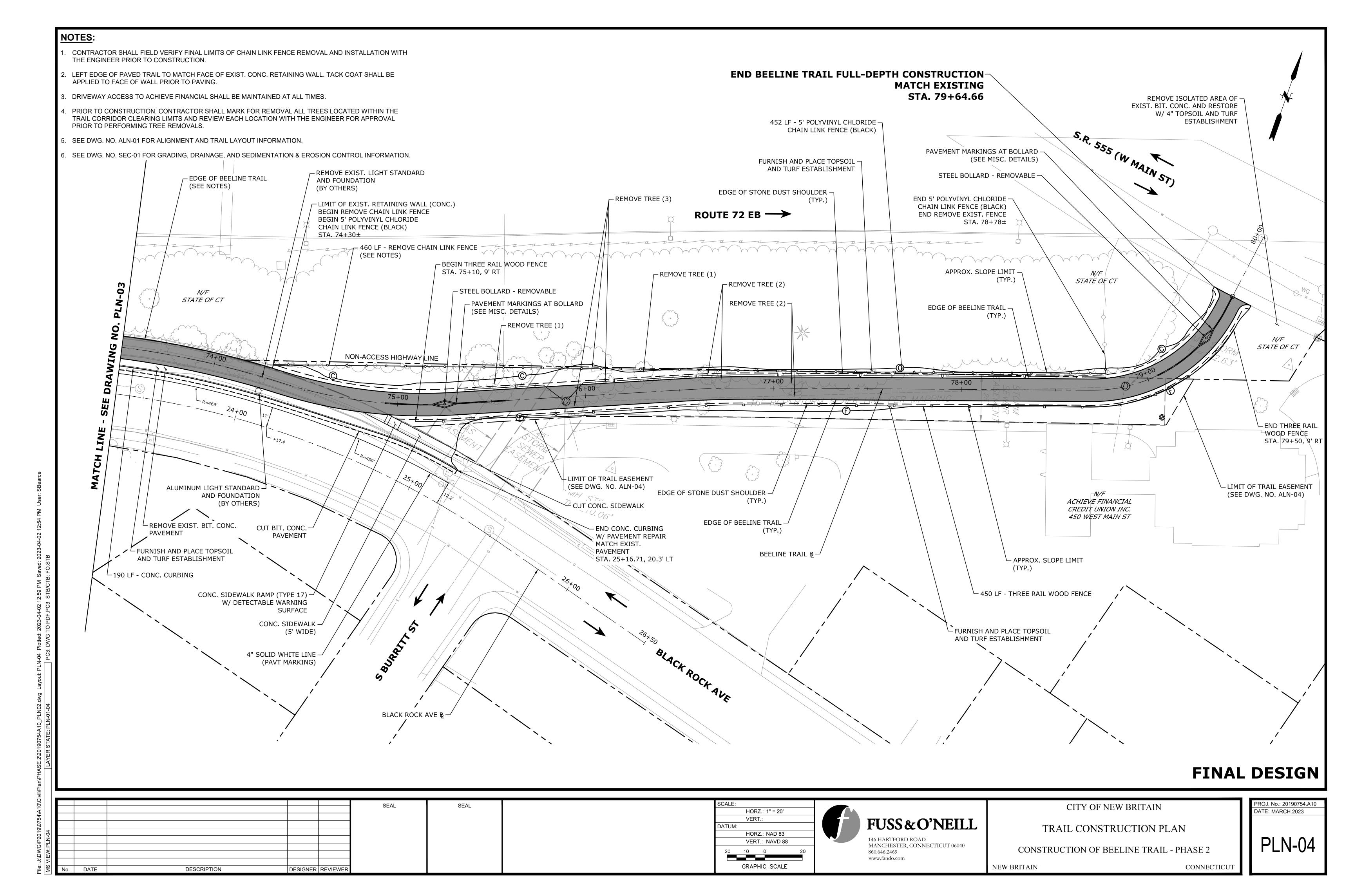
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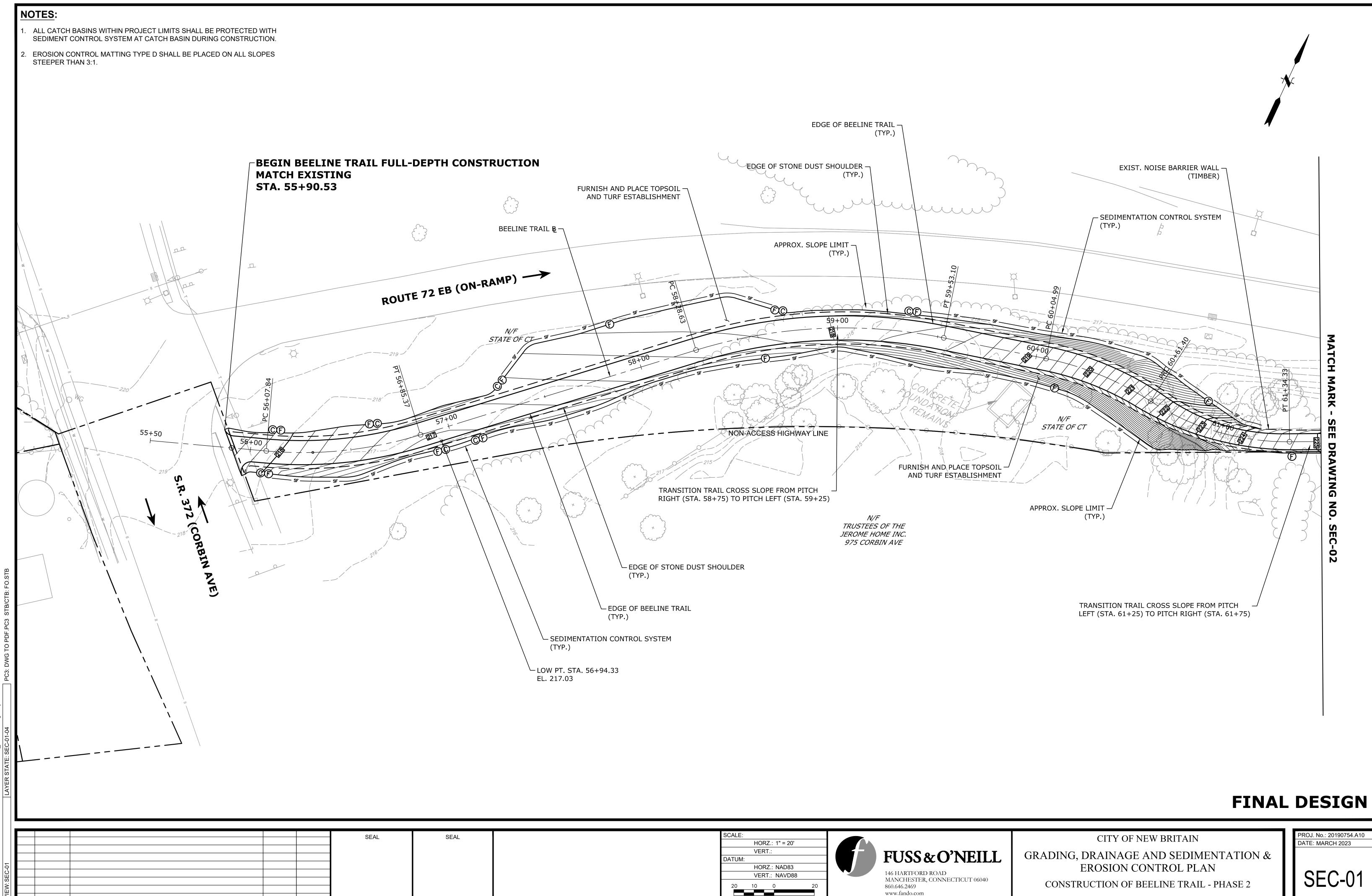
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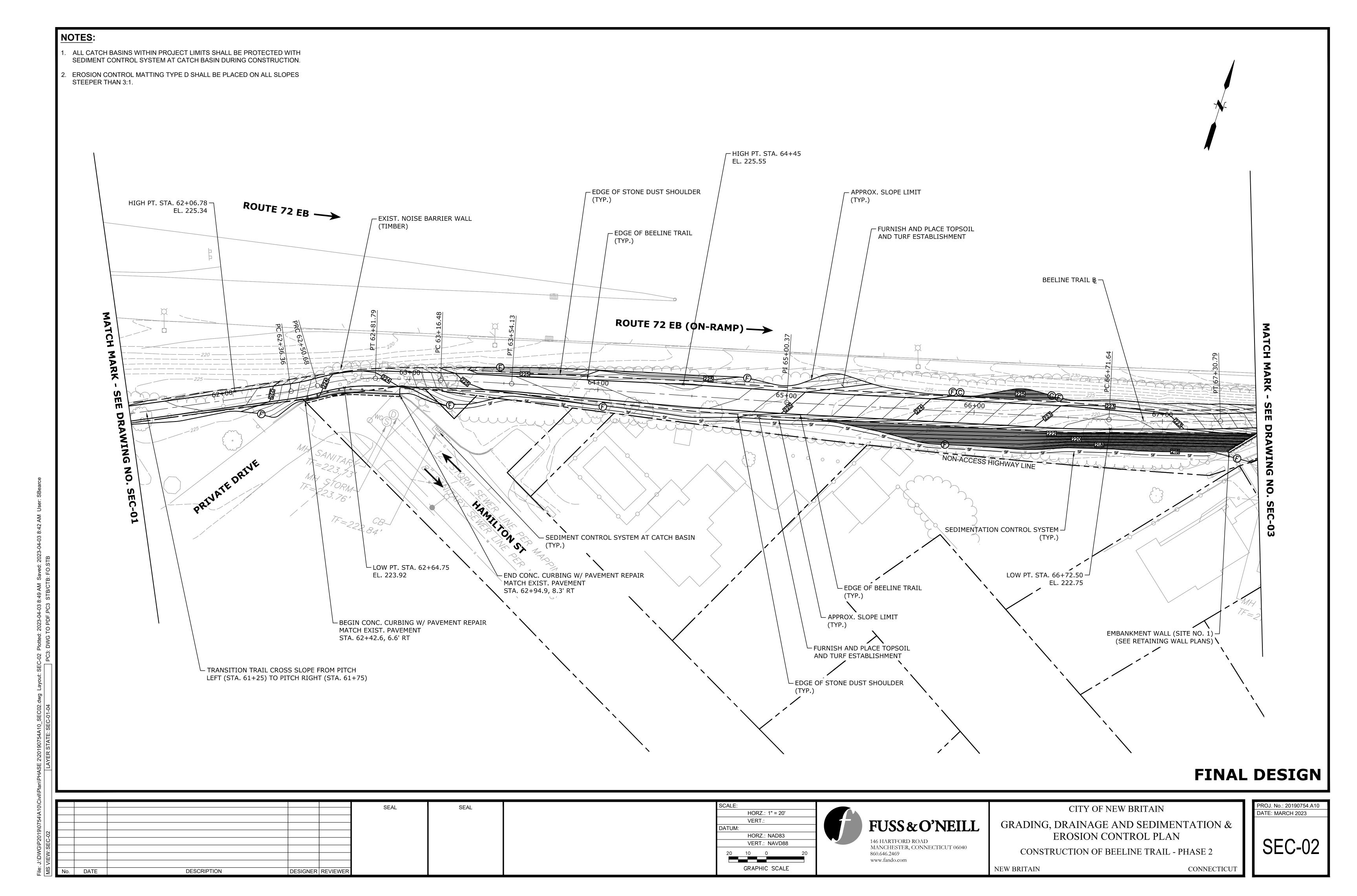
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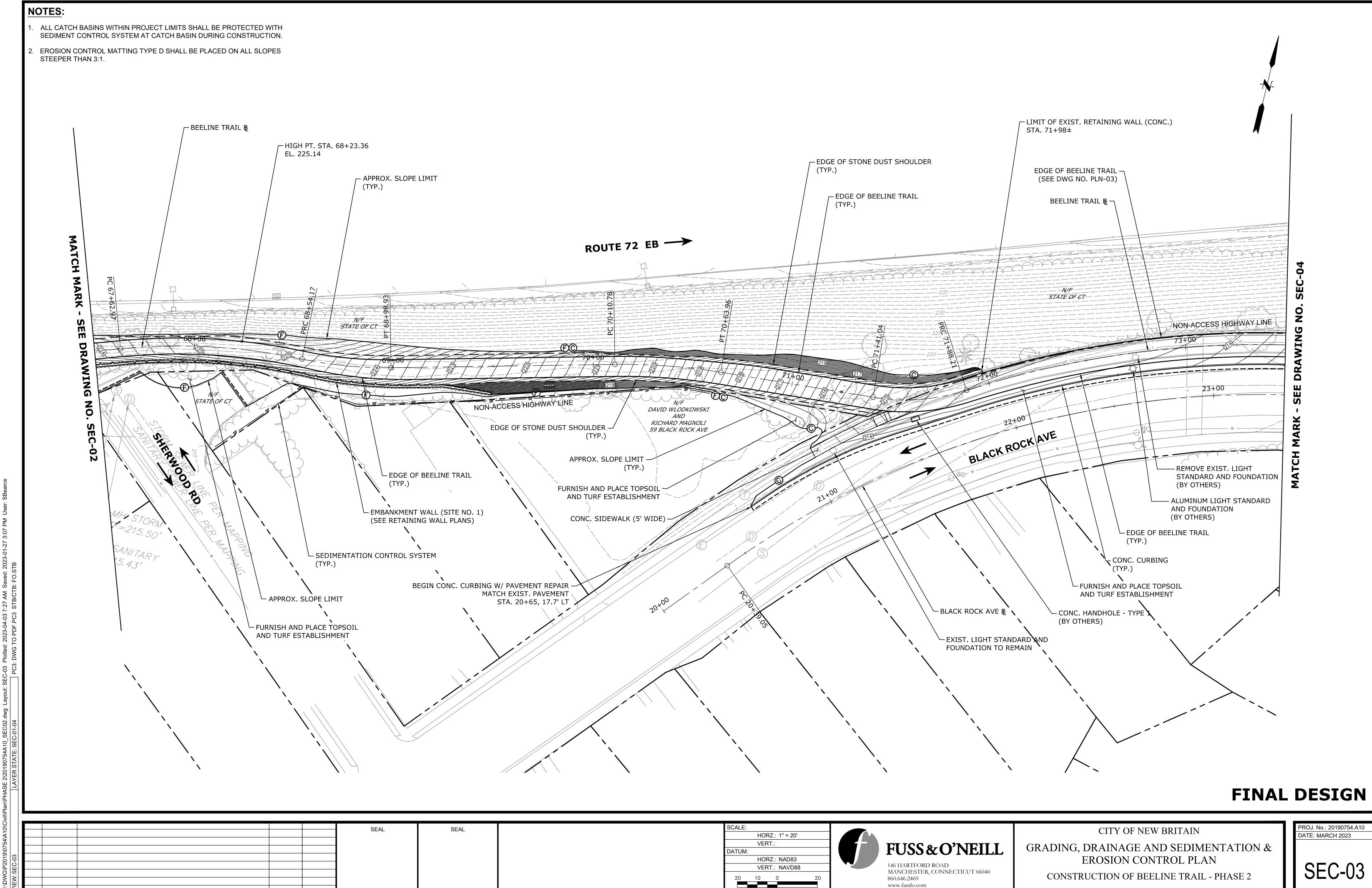
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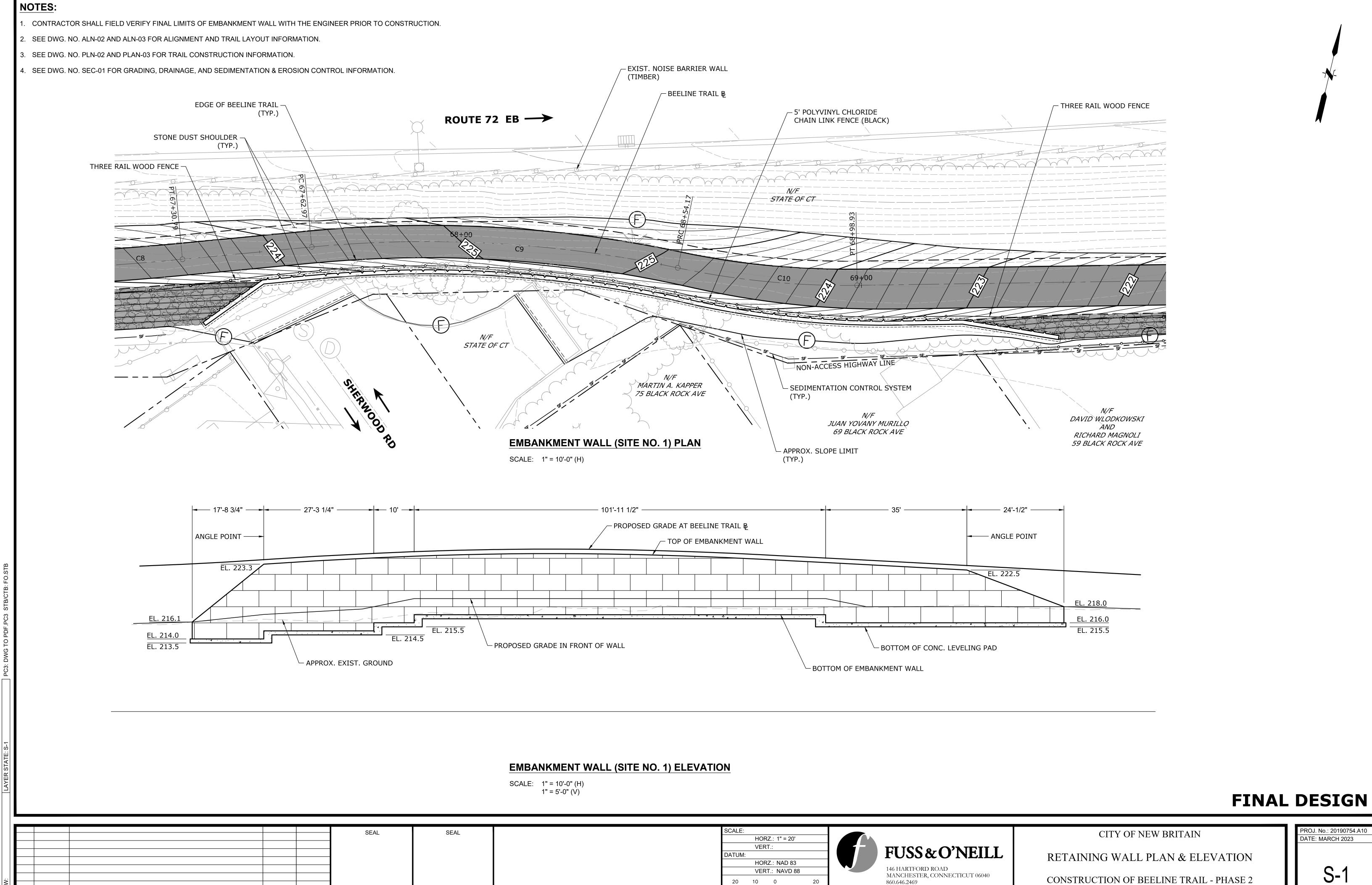
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PLAN NOTES:

- 1. THE EMBANKMENT WALL SHALL BE DESIGNED, DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 1)".
- 2. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH THE SHEET PILING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL.
- 3. DETAILS SHOWN ON THIS SHEET ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHOULD MODIFY THE SECTION FOR EACH SPECIFIC SITE.
- 4. THE CONTRACTOR SHALL SELECT, DESIGN (FOR PROPRIETARY WALLS ONLY) AND CONSTRUCT ONE OF THE WALL OPTIONS AS LISTED IN THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 1)".
- 5. THE COLOR OF THE DRY CAST BLOCK SHALL BE ()
- 6. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.

FINAL DESIGN

RZ.: NTS
RT.:

RZ.: NAD 83
RT.: NAVD 88

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CITY OF NEW BRITAIN

RETAINING WALL PLAN & ELEVATION

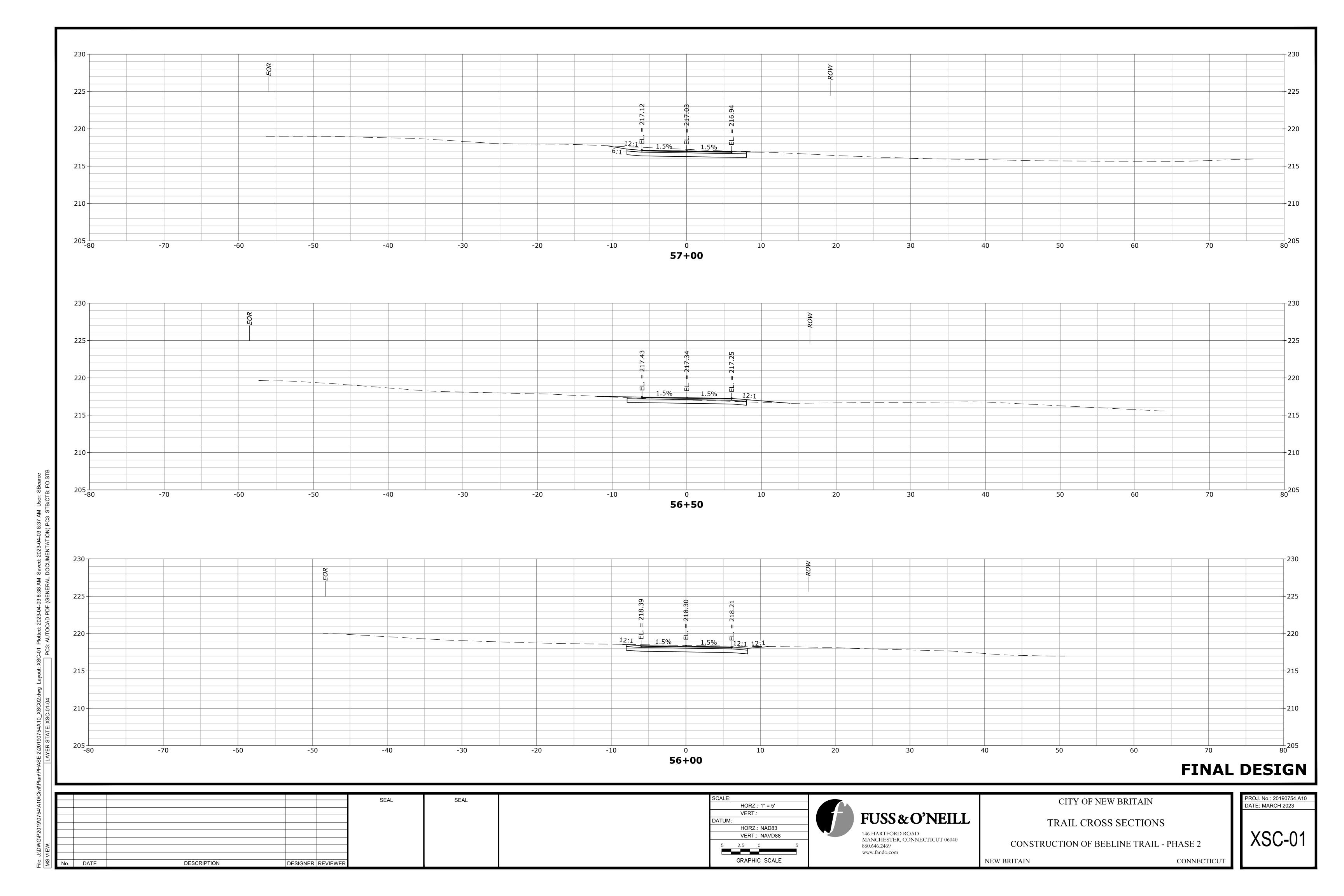
CONSTRUCTION OF BEELINE TRAIL - PHASE 2

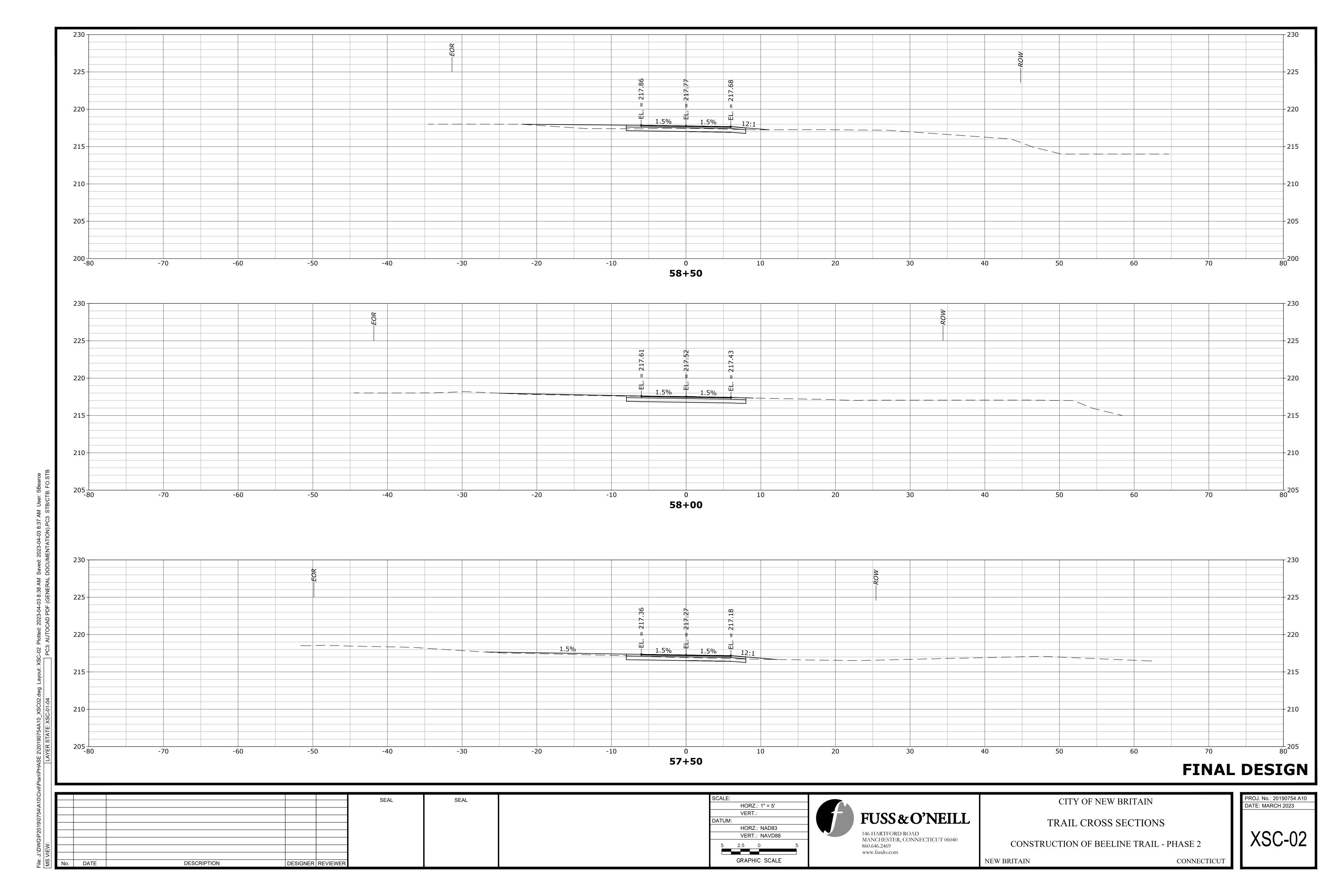
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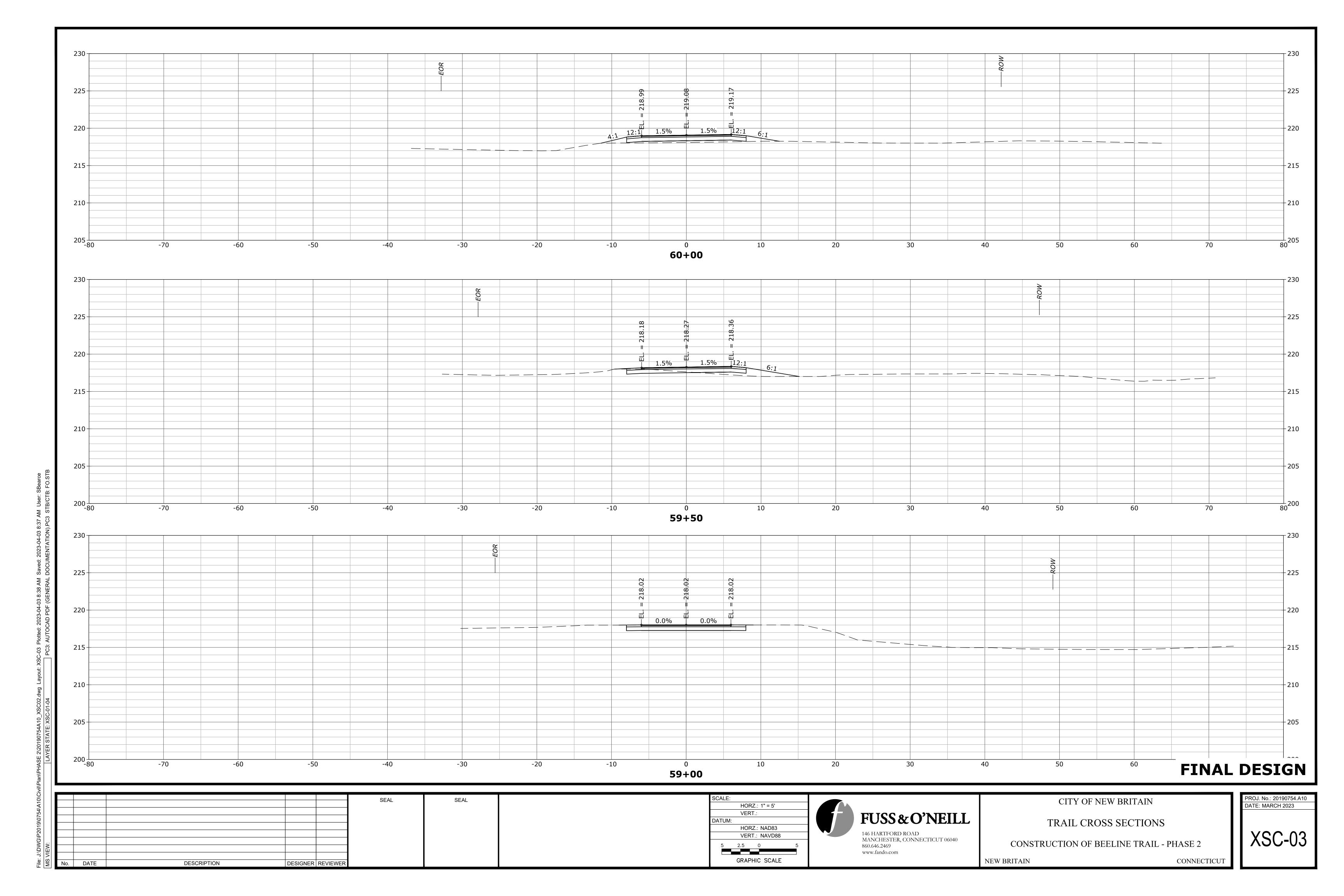
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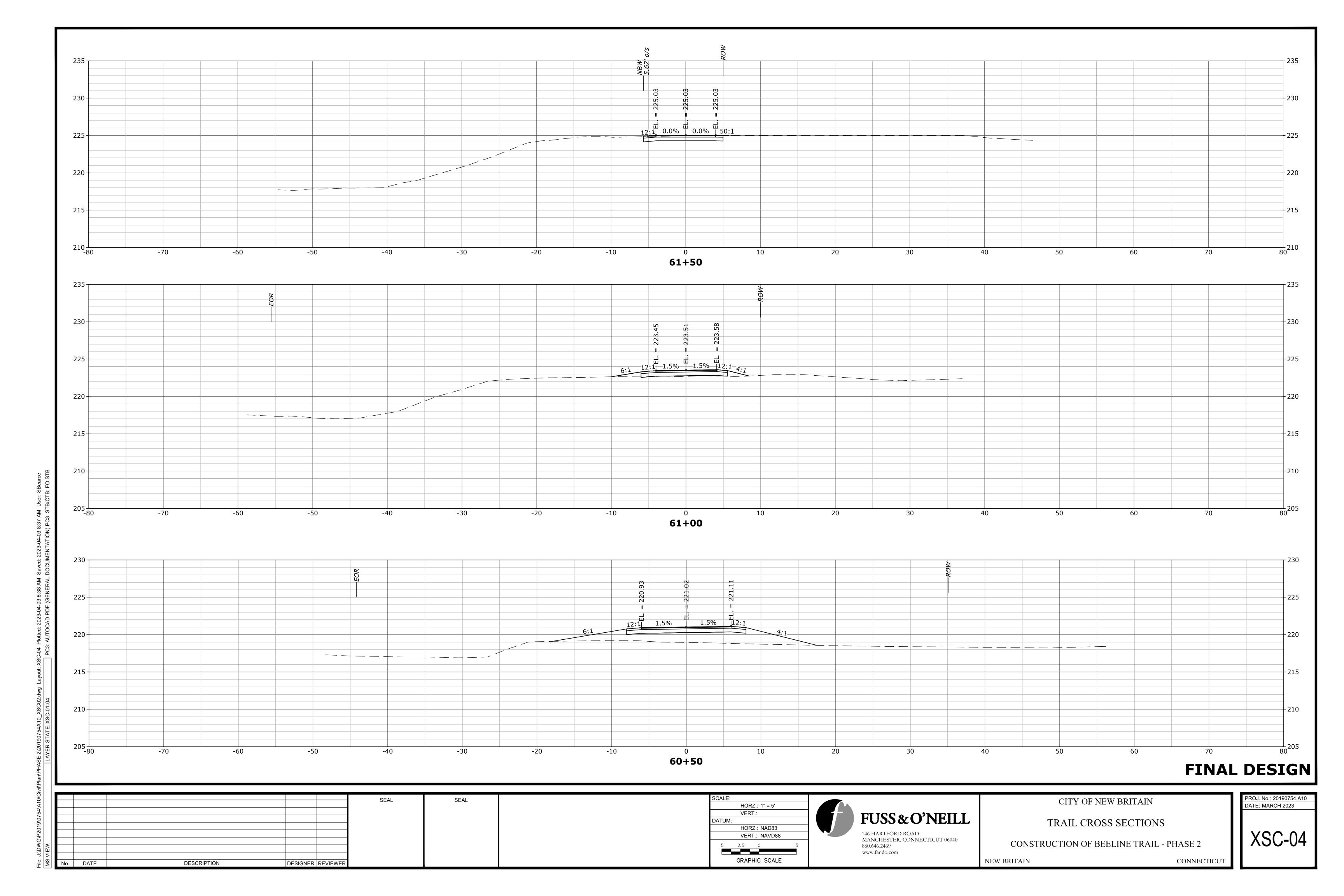
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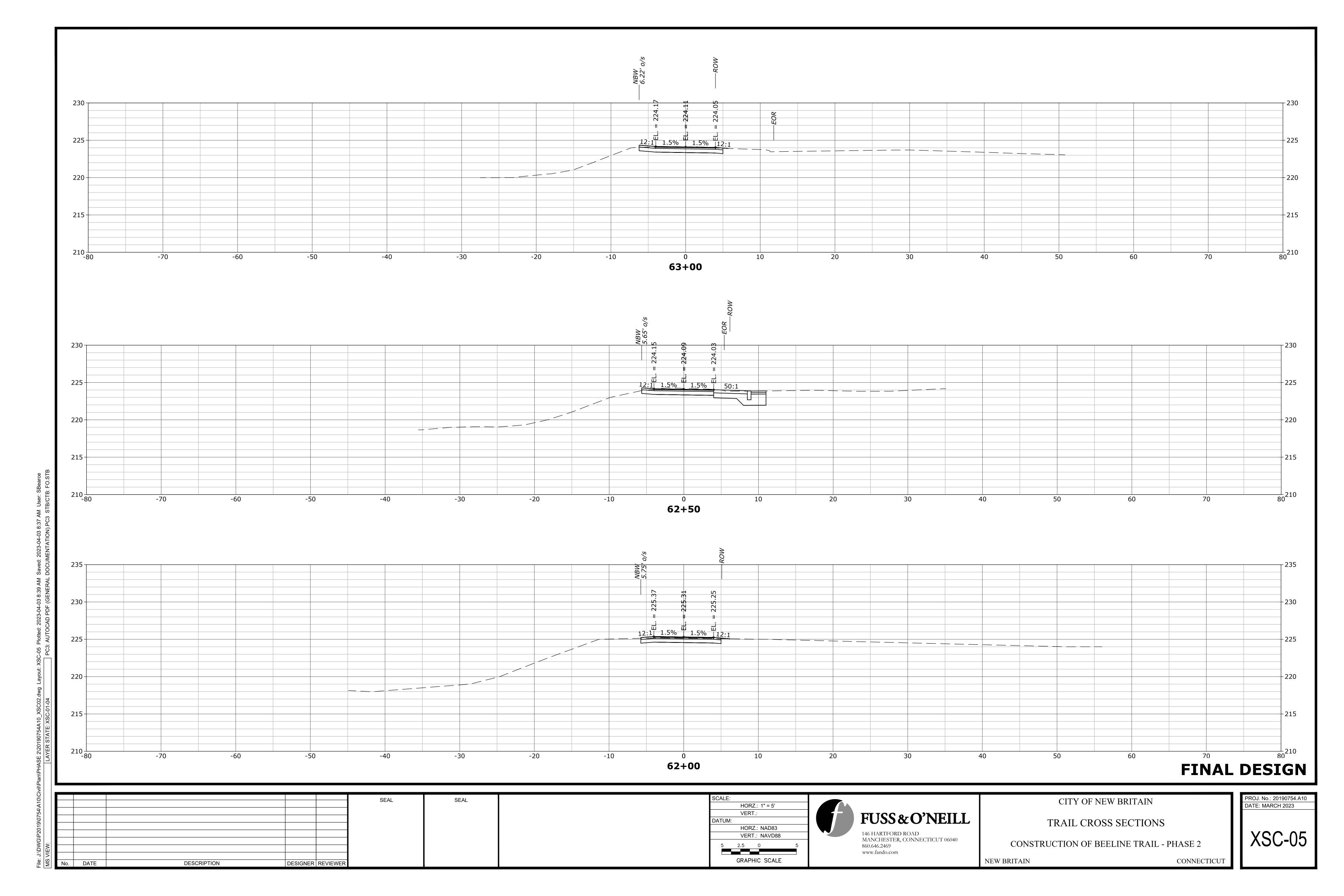
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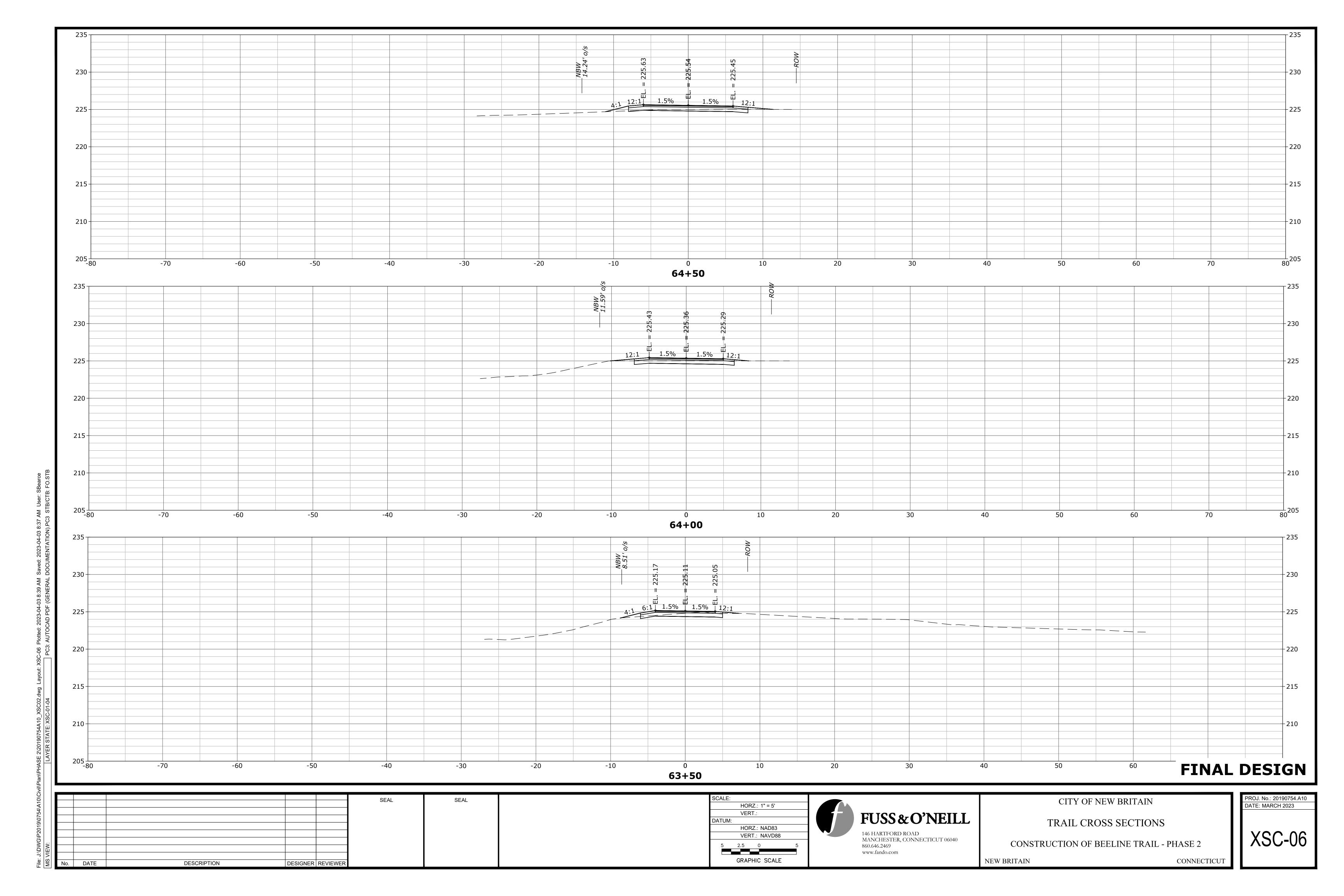


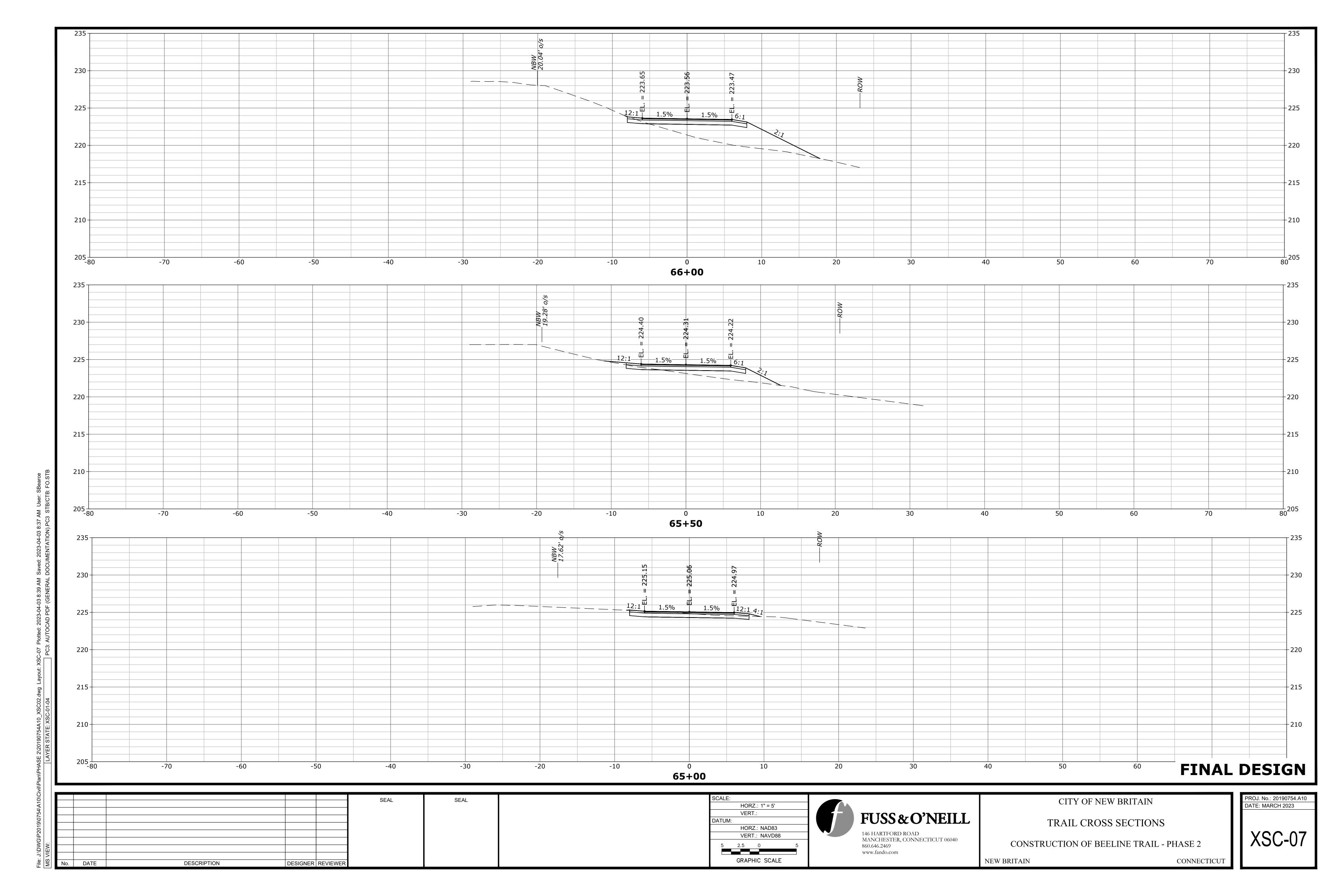


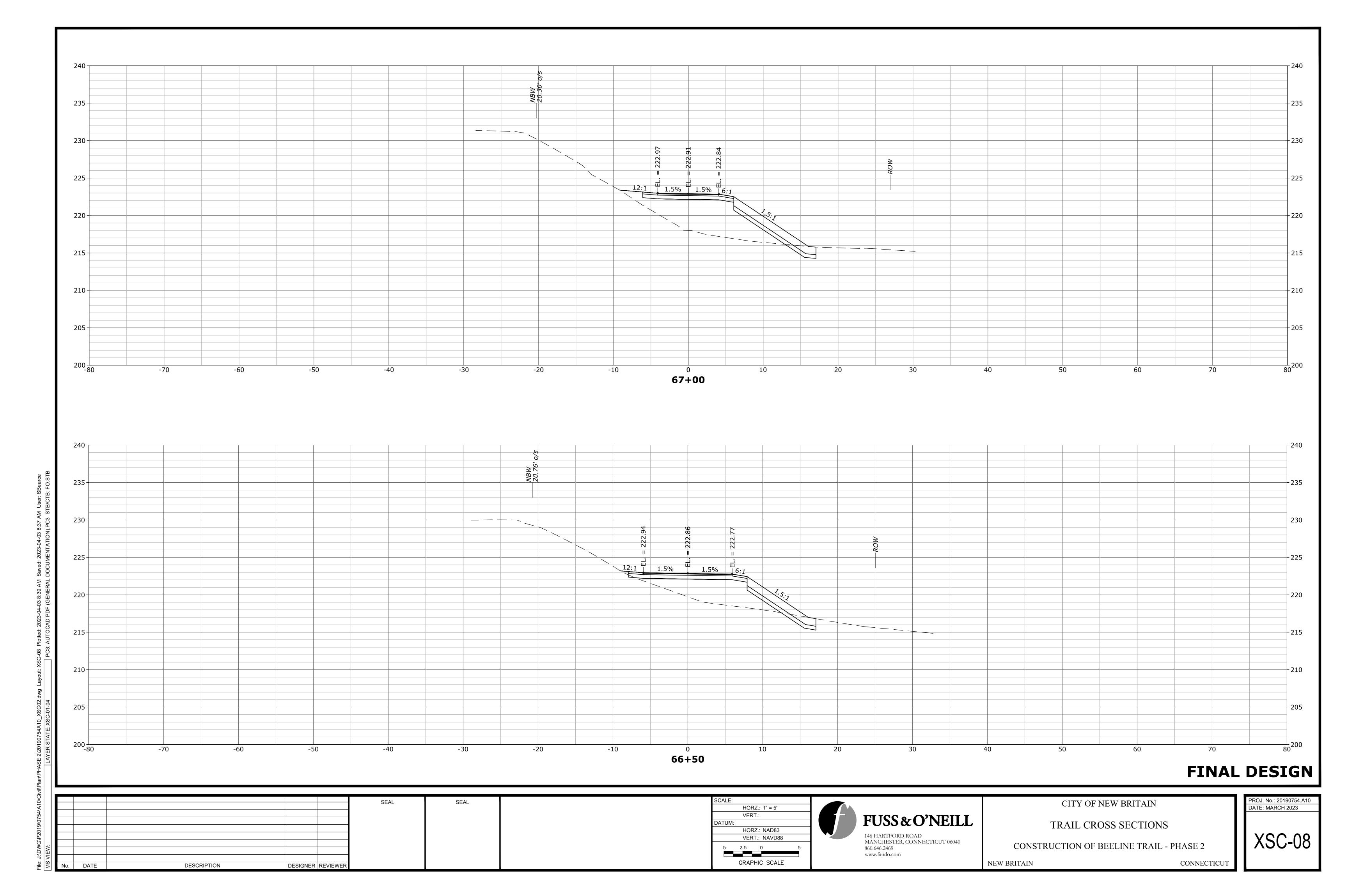


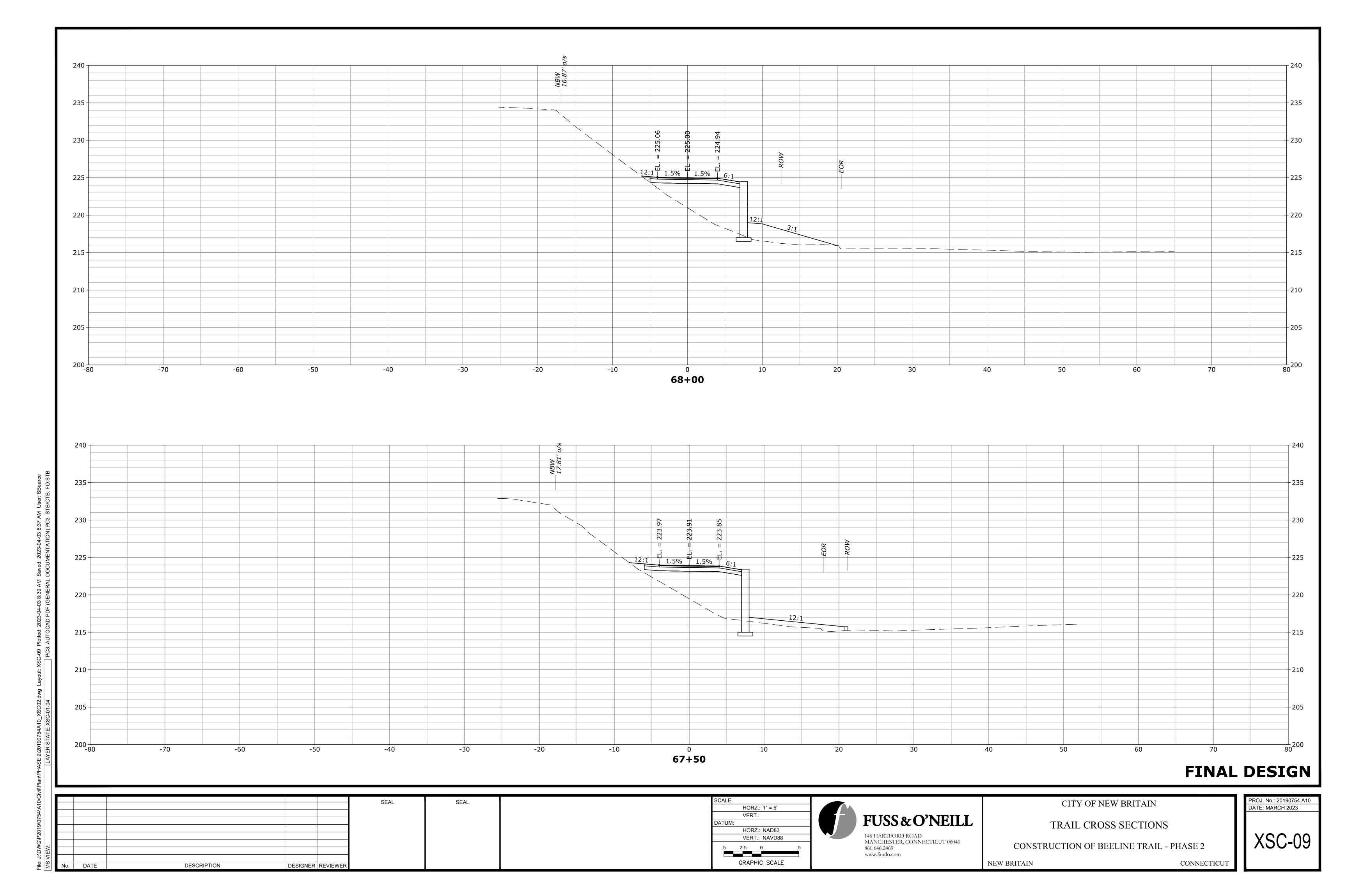


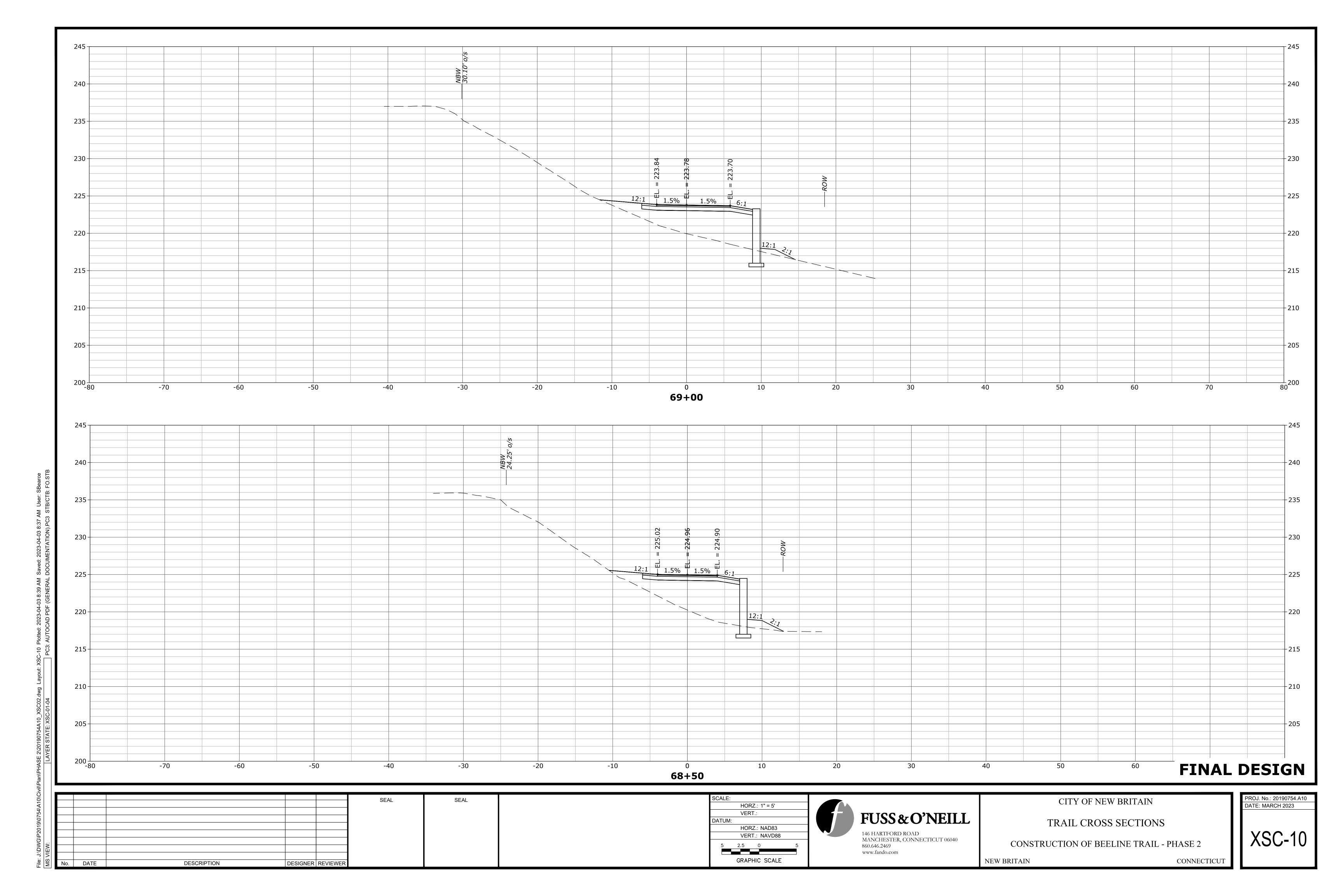


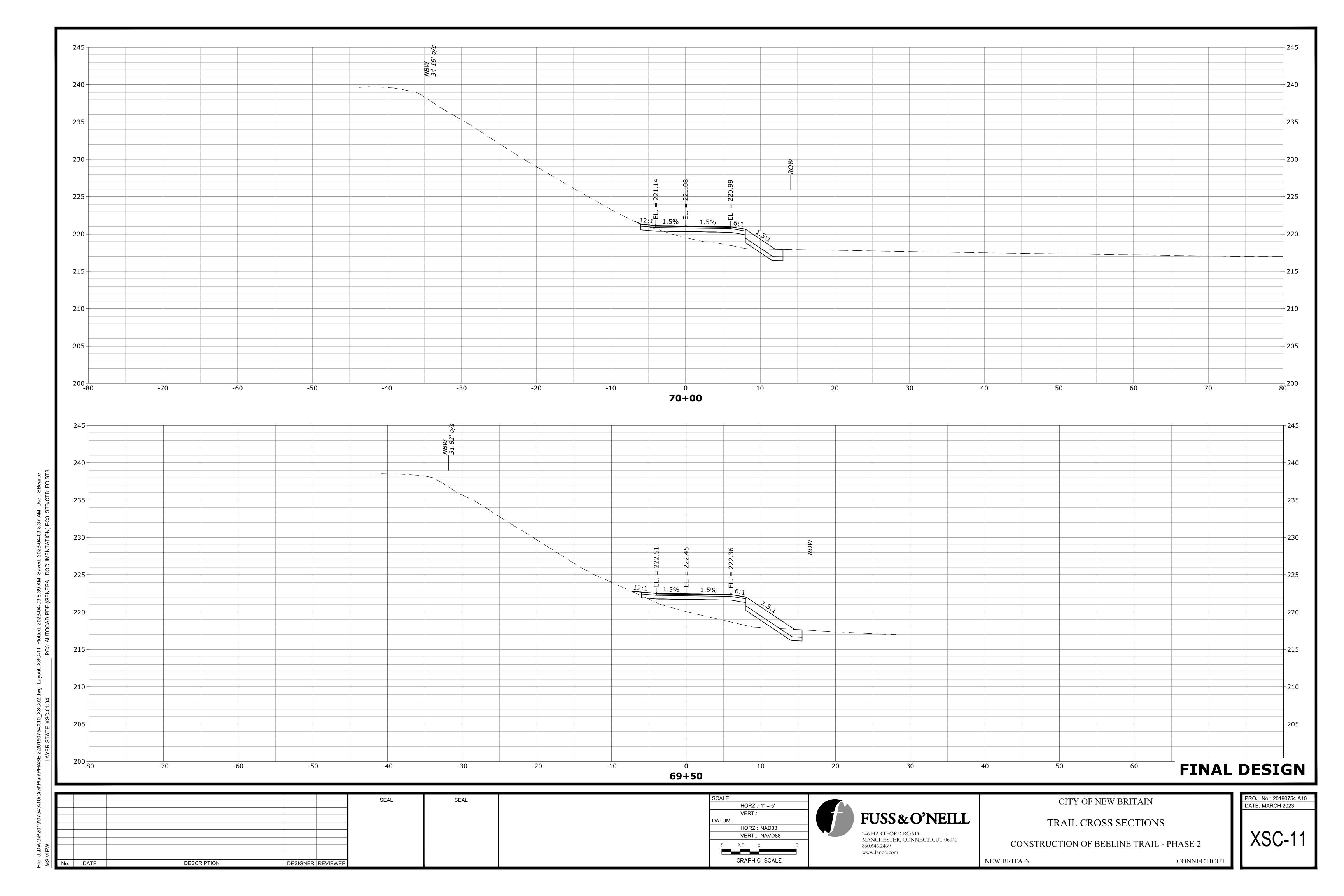


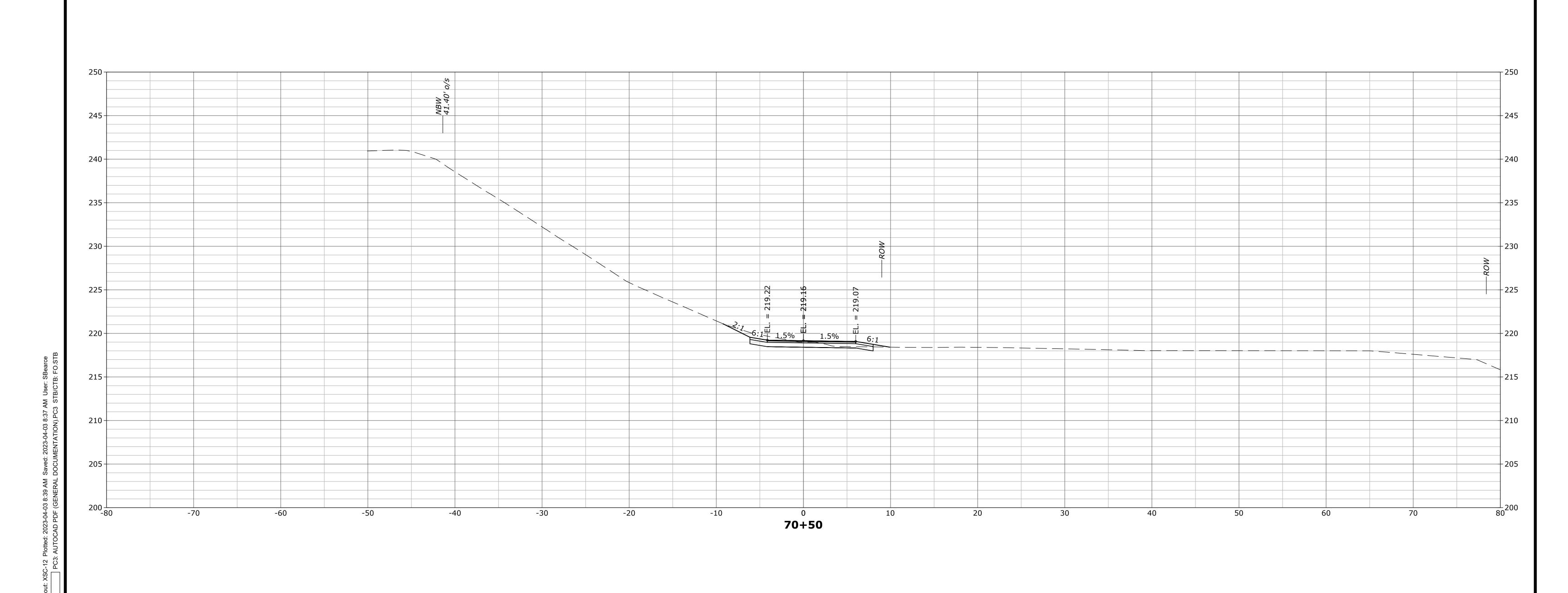












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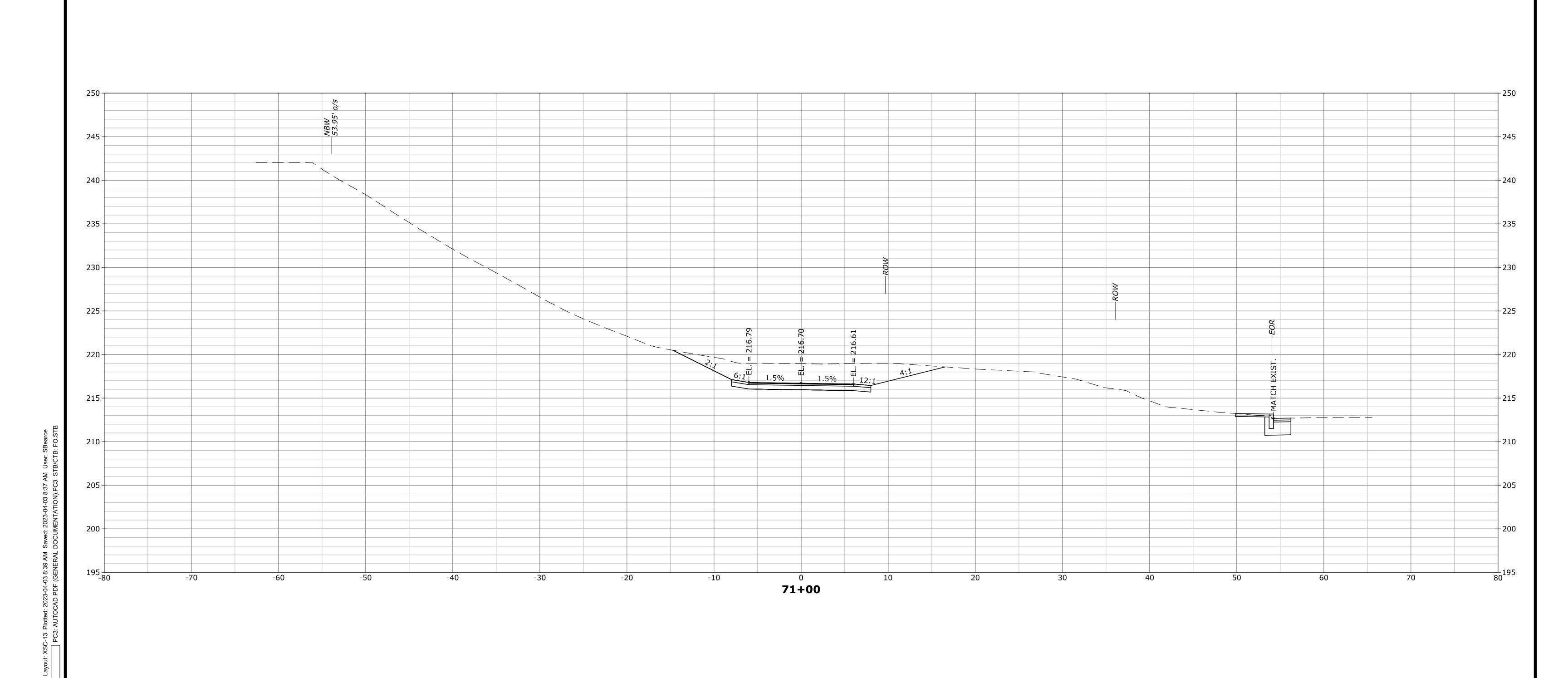
CITY OF NEW BRITAIN

TRAIL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

CONNECTICUT XSC-12

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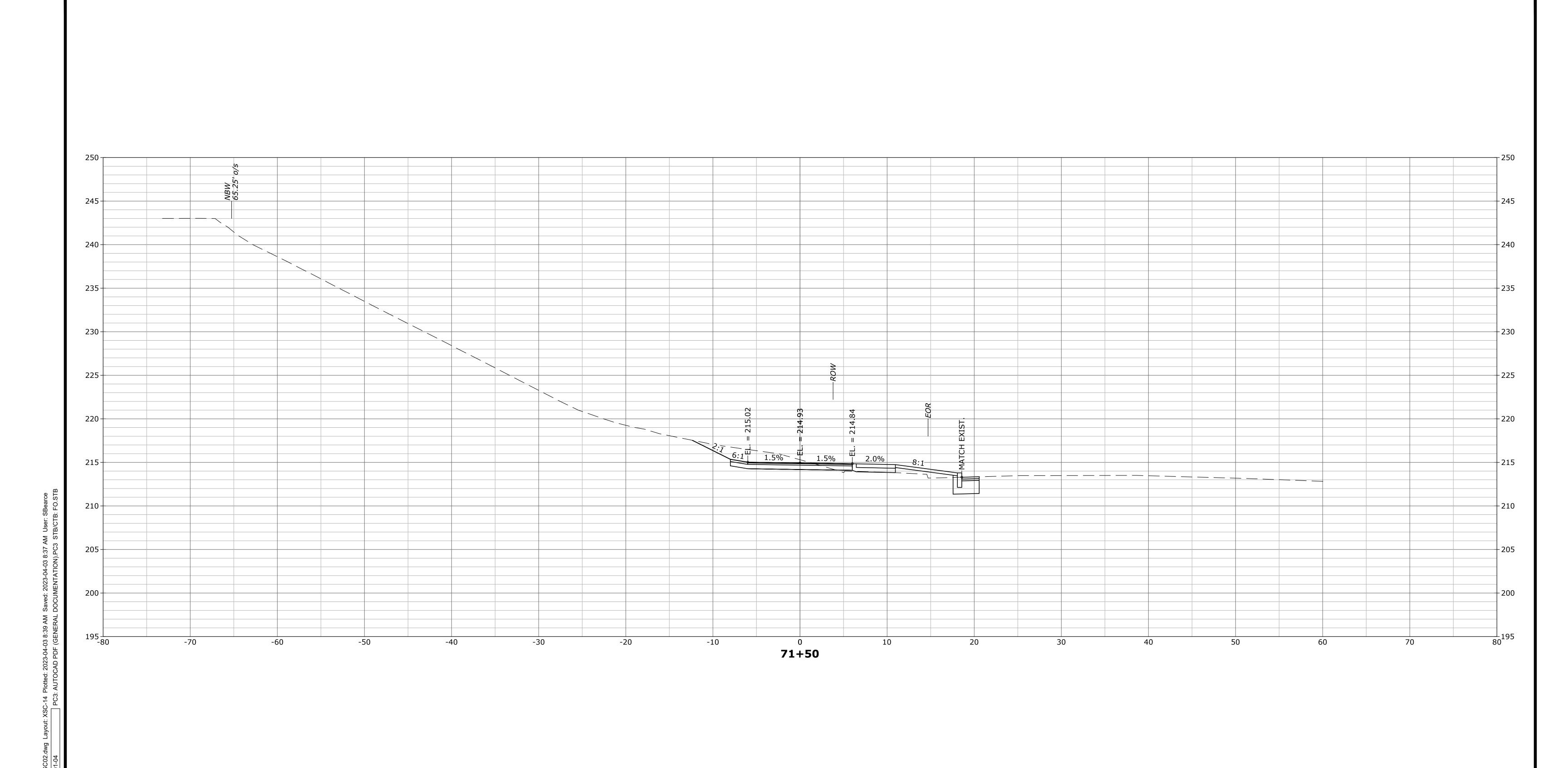


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CONSTRUCTION OF BEELINE TRAIL - PHASE 2

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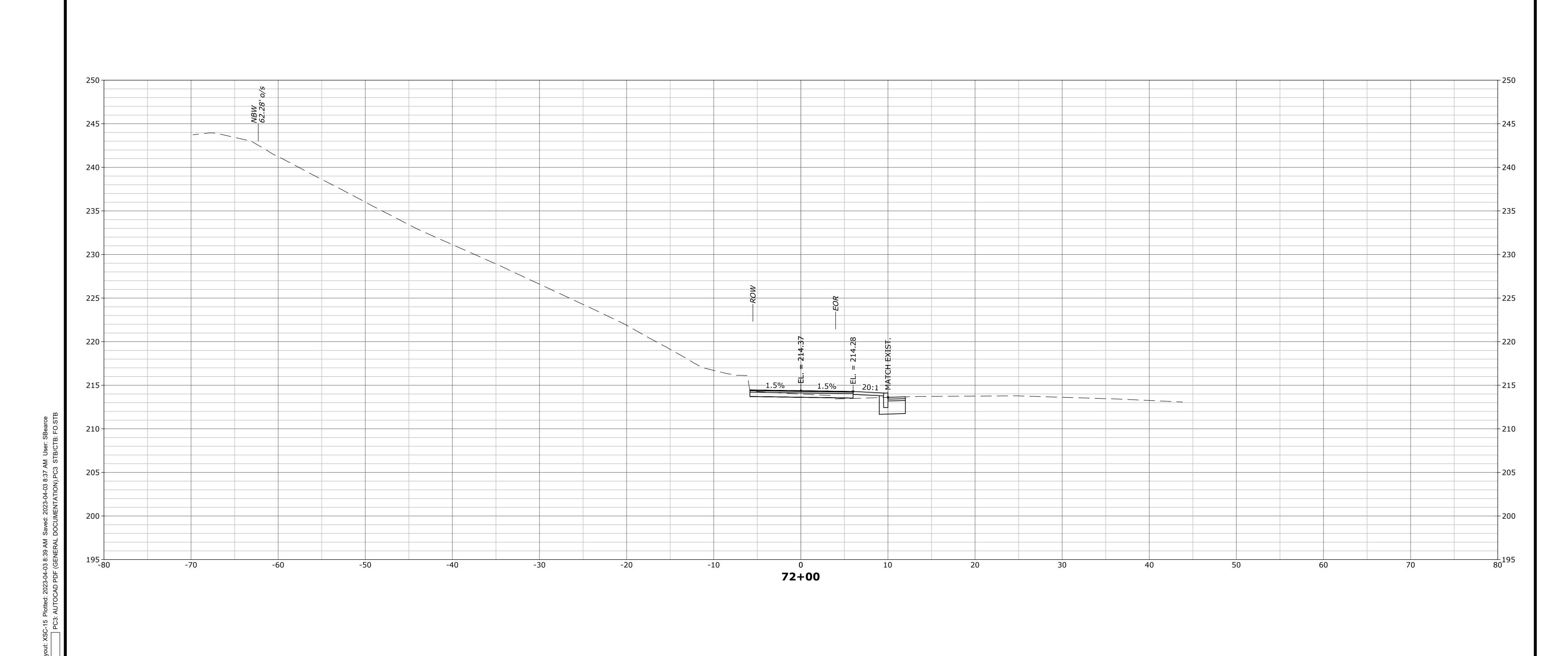


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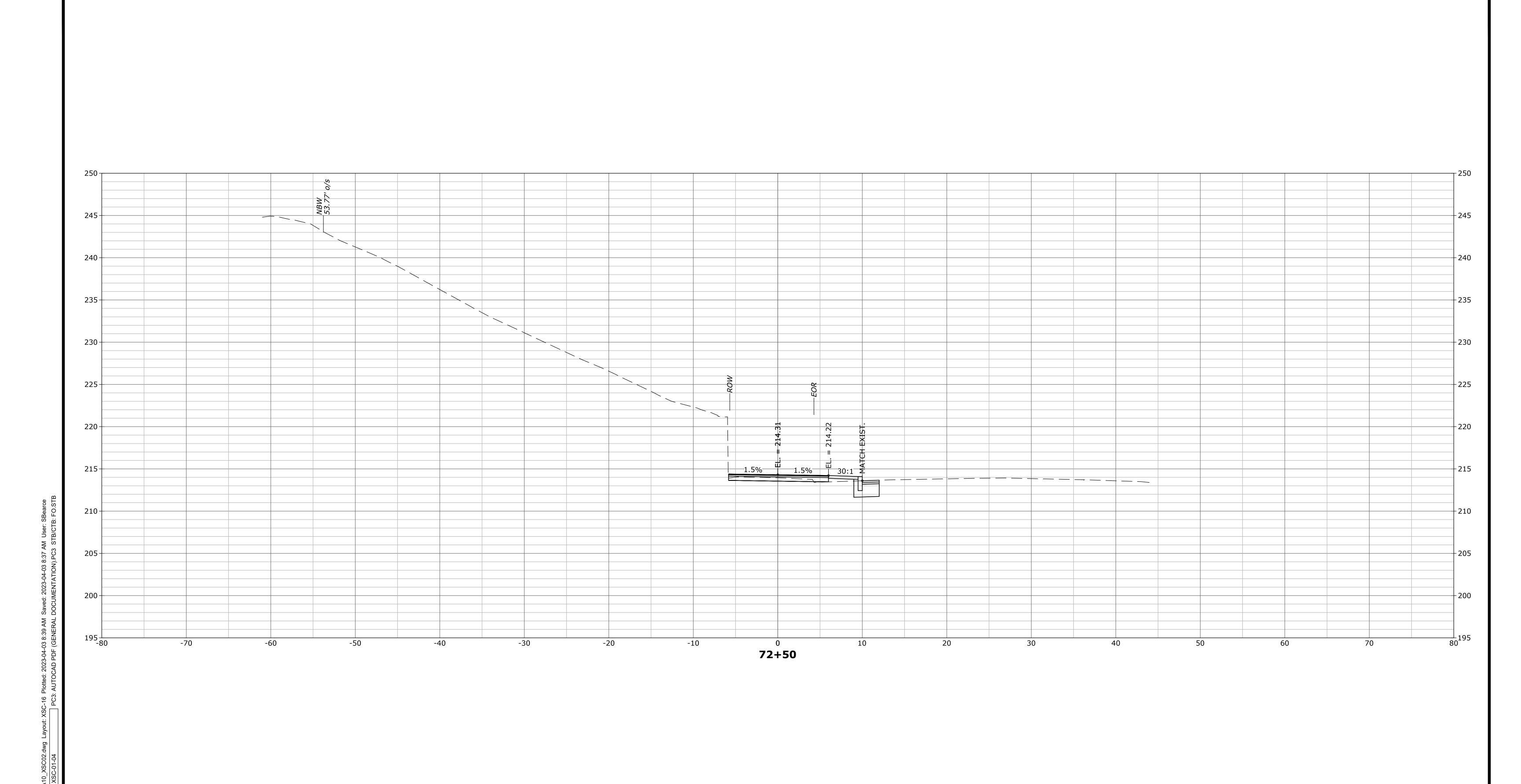
CONSTRUCTION OF BEELINE TRAIL - PHASE 2 CONNECTICUT





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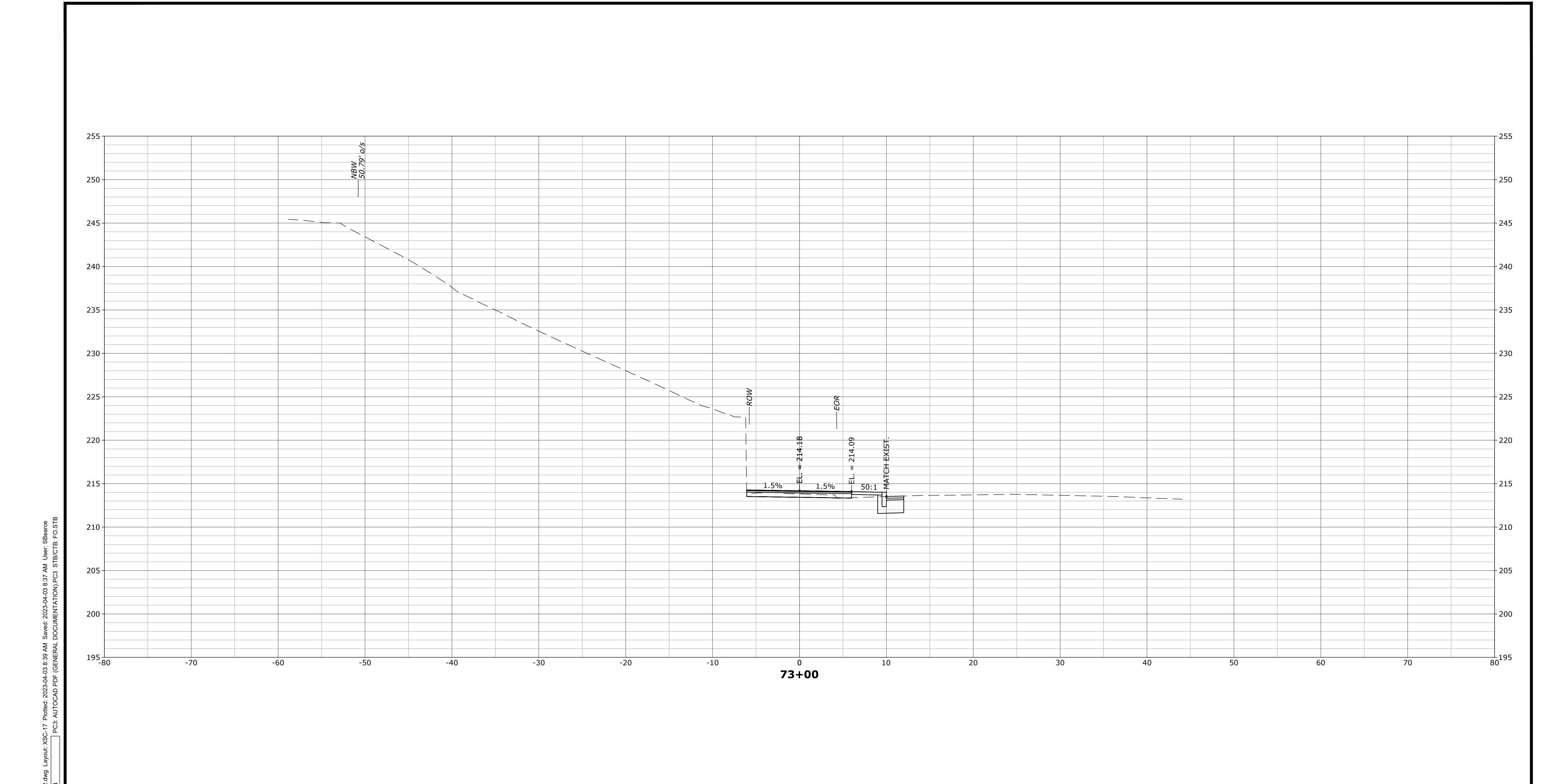
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CONSTRUCTION OF BEELINE TRAIL - PHASE 2 CONNECTICUT NEW BRITAIN



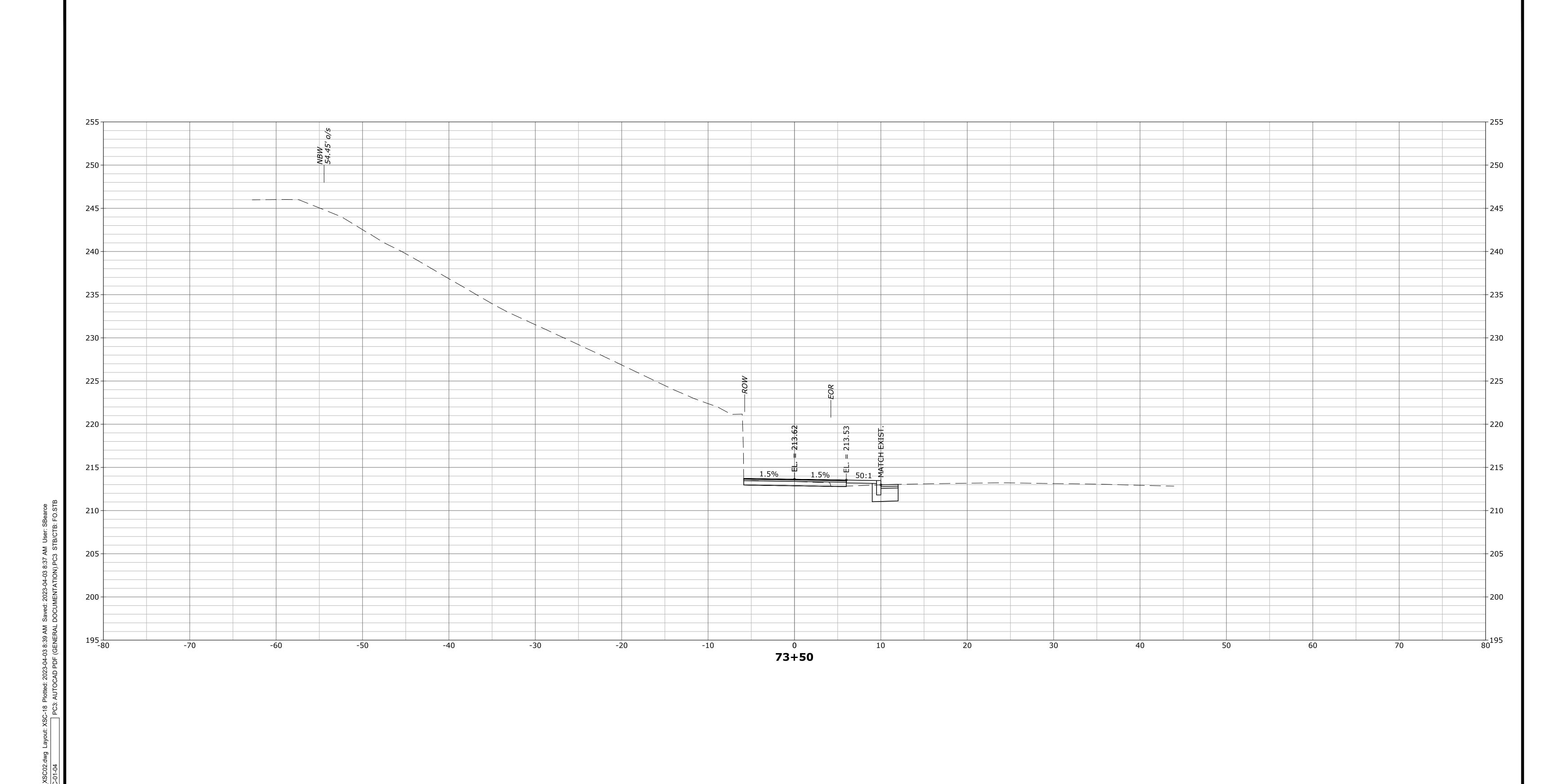
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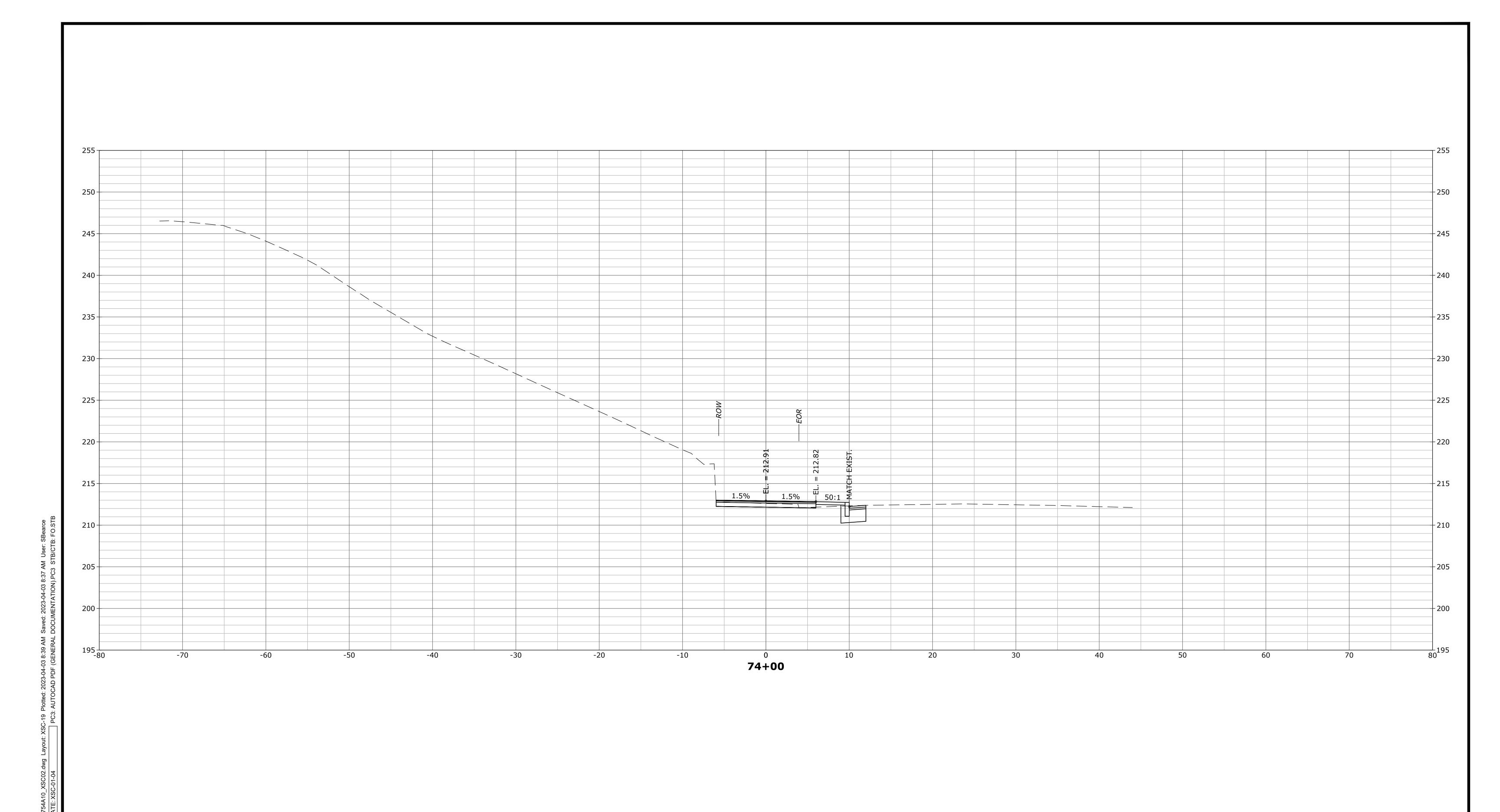


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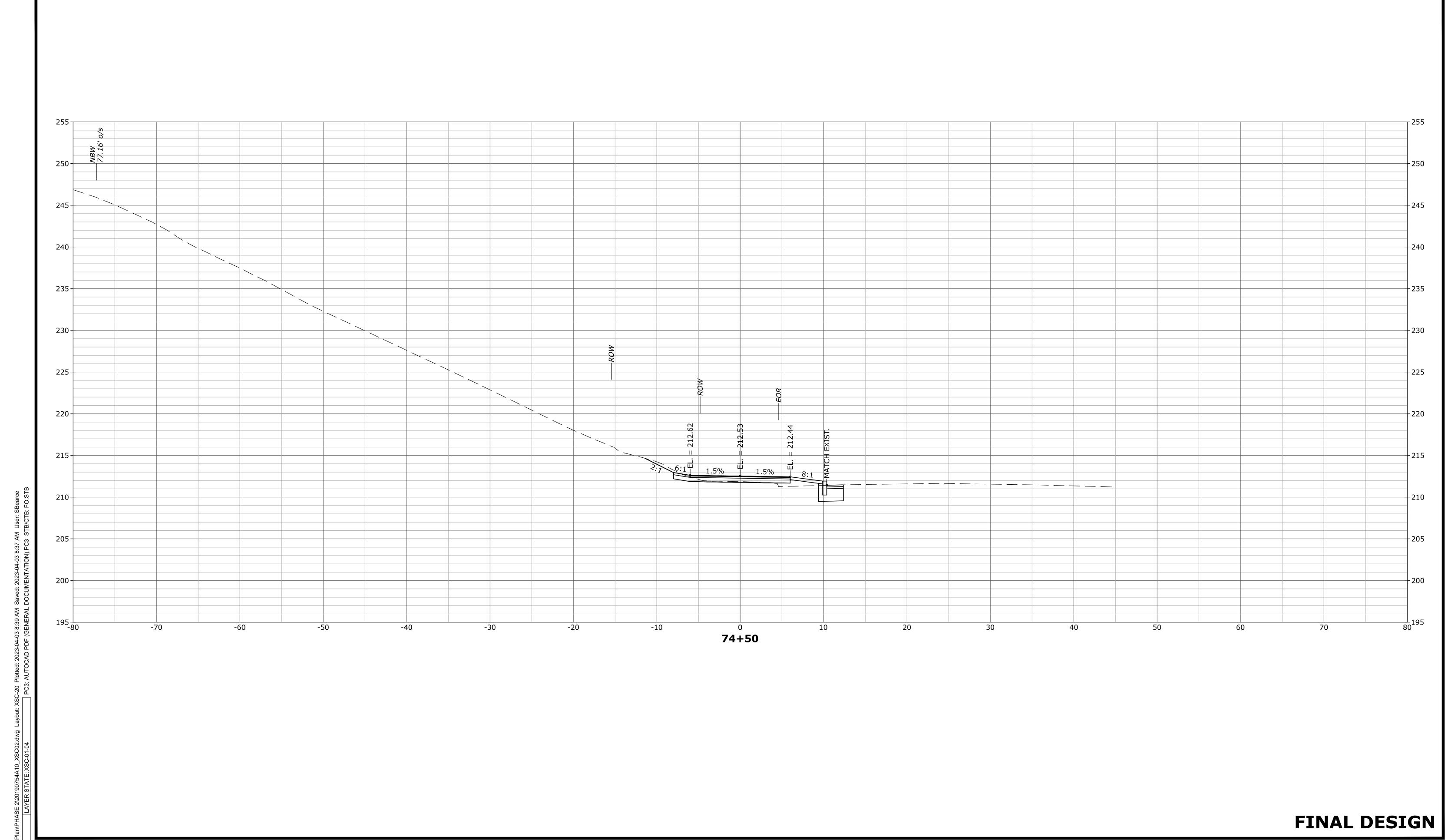
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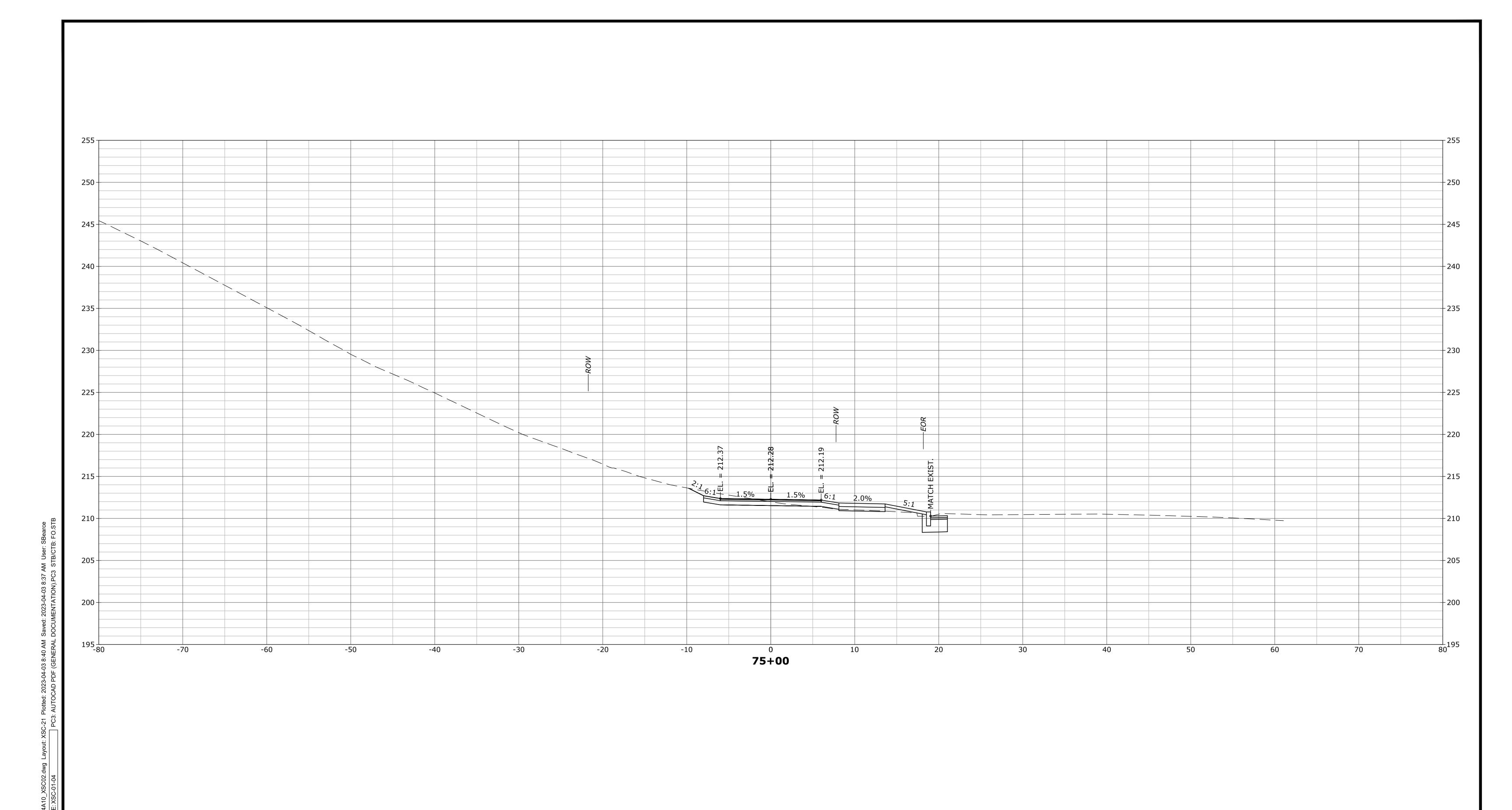


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CITY OF NEW BRITAIN
TRAIL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN CONNECTICUT



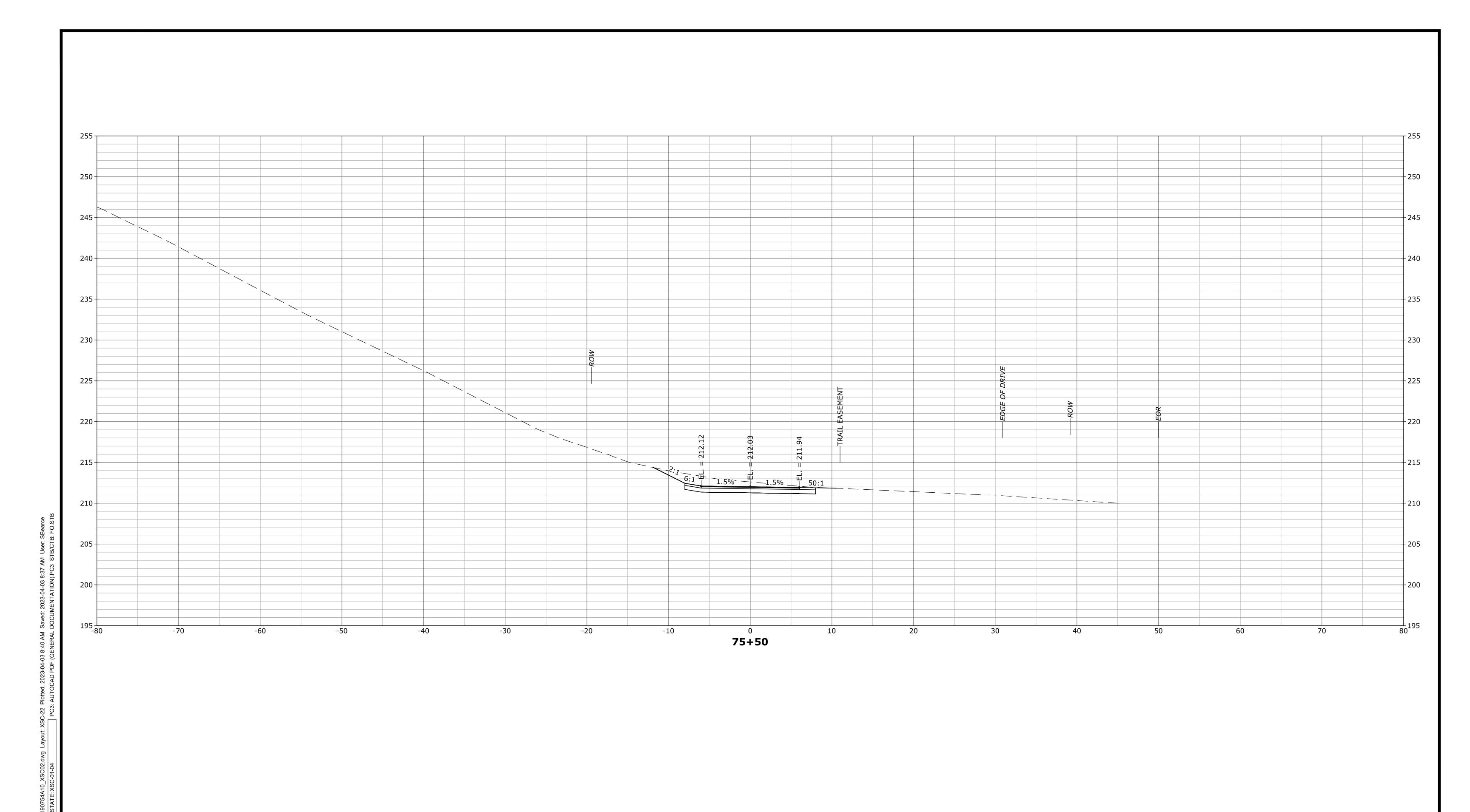
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CITY OF NEW BRITAIN

TRAIL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2



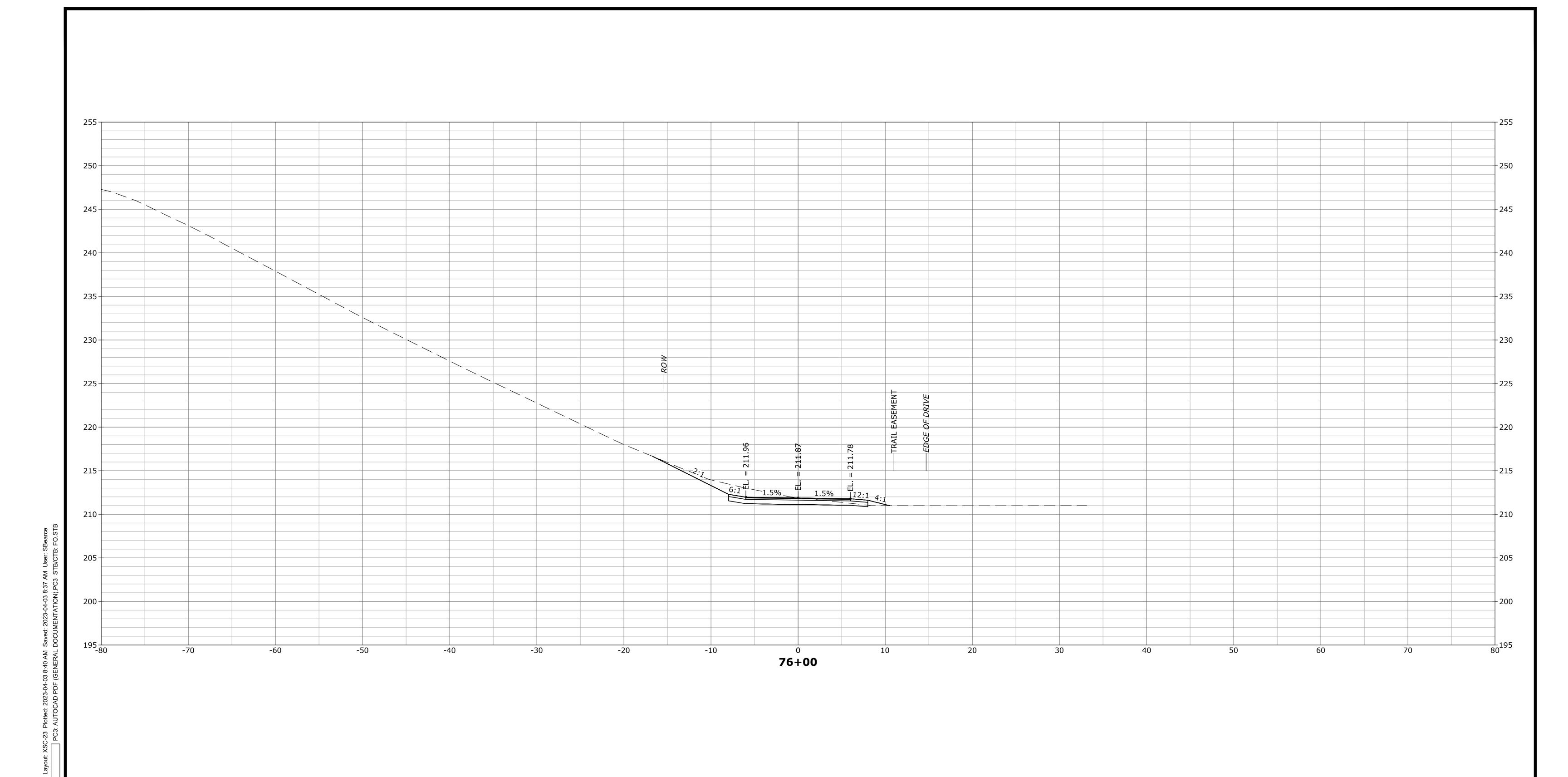
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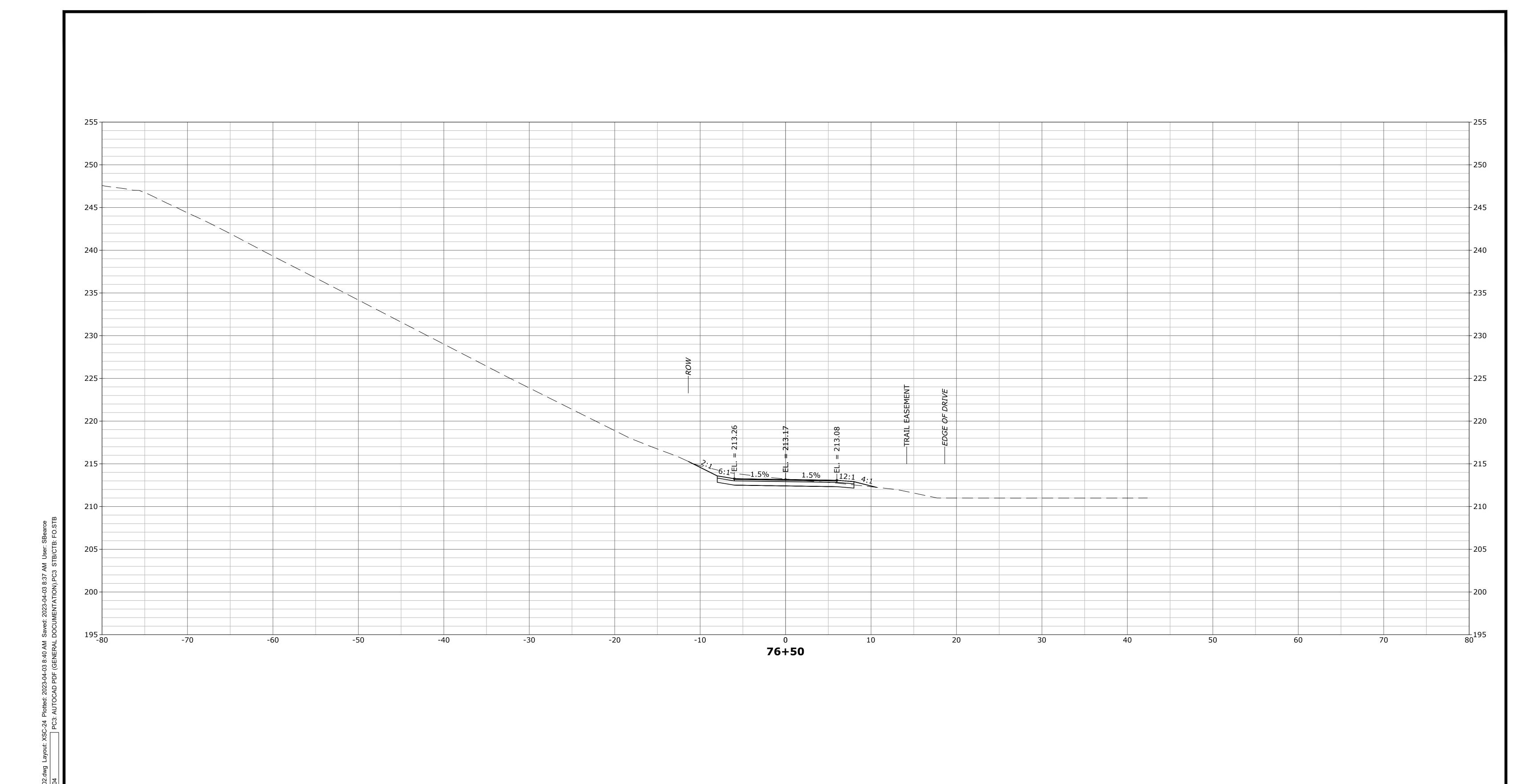
CONSTRUCTION OF BEELINE TRAIL - PHASE 2



CITY OF NEW BRITAIN TRAIL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2 CONNECTICUT NEW BRITAIN

PROJ. No.: 20190754.A10 DATE: MARCH 2023



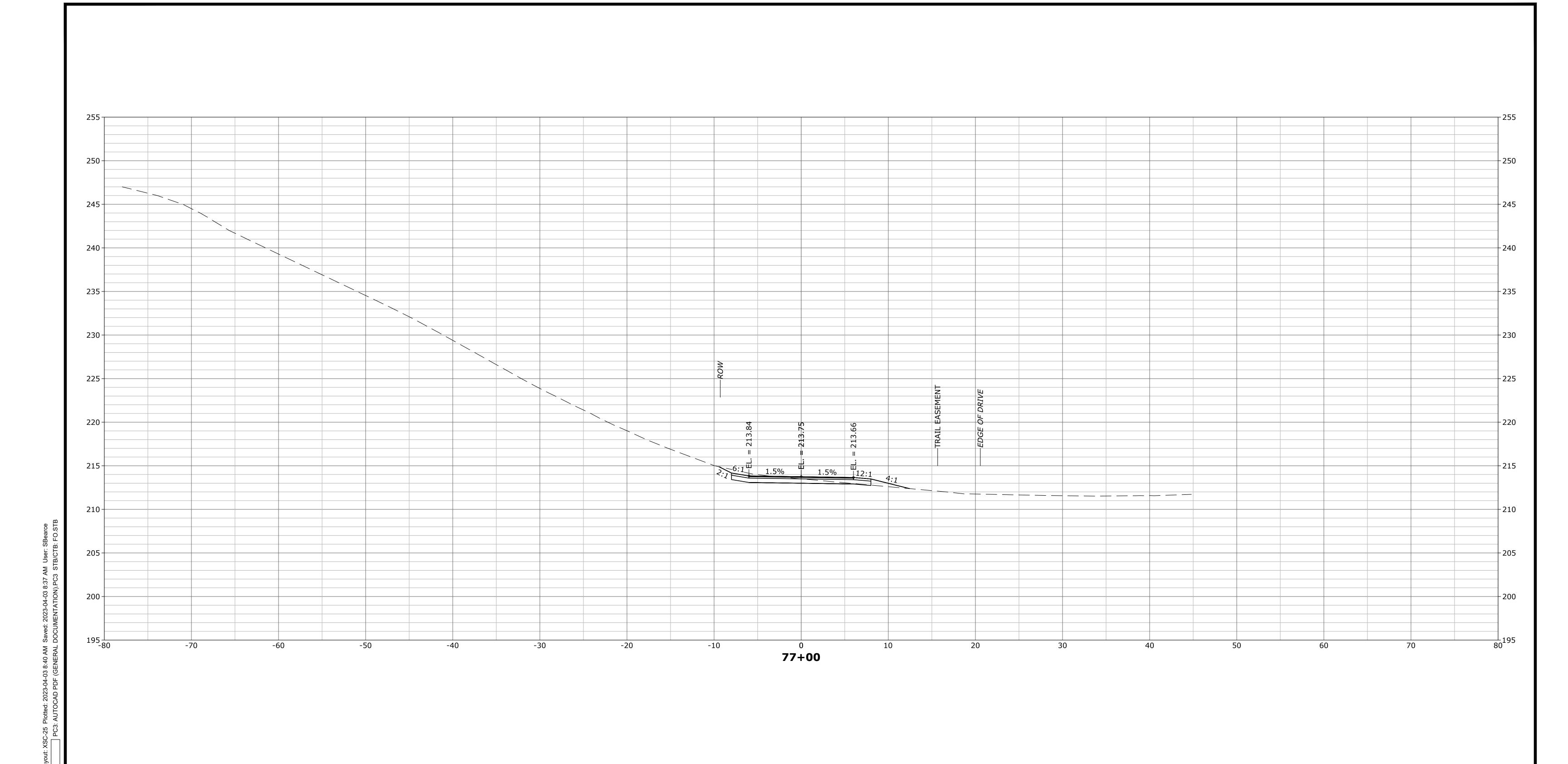
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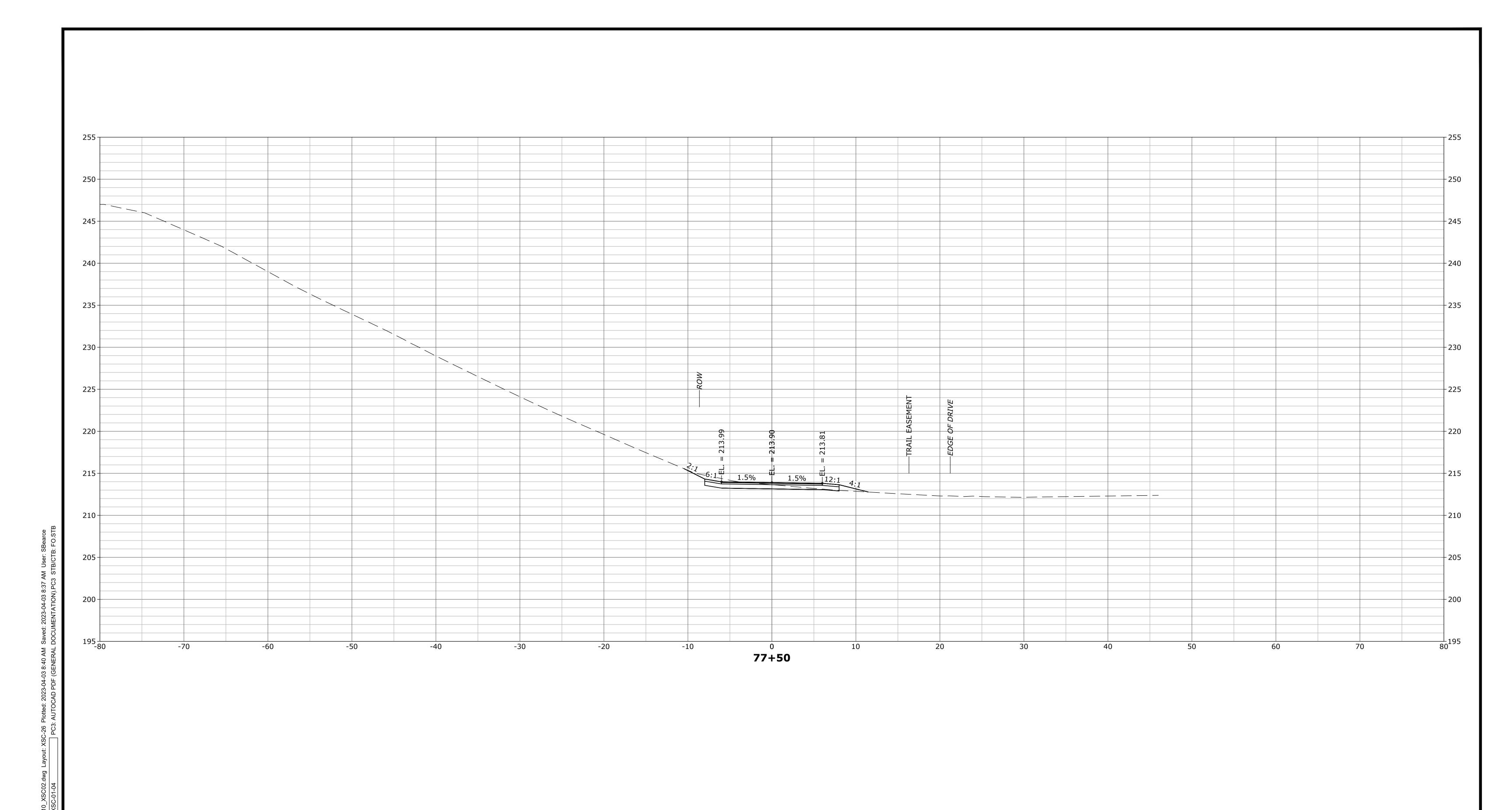
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CONSTRUCTION OF BEELINE TRAIL - PHASE 2 CONNECTICUT NEW BRITAIN



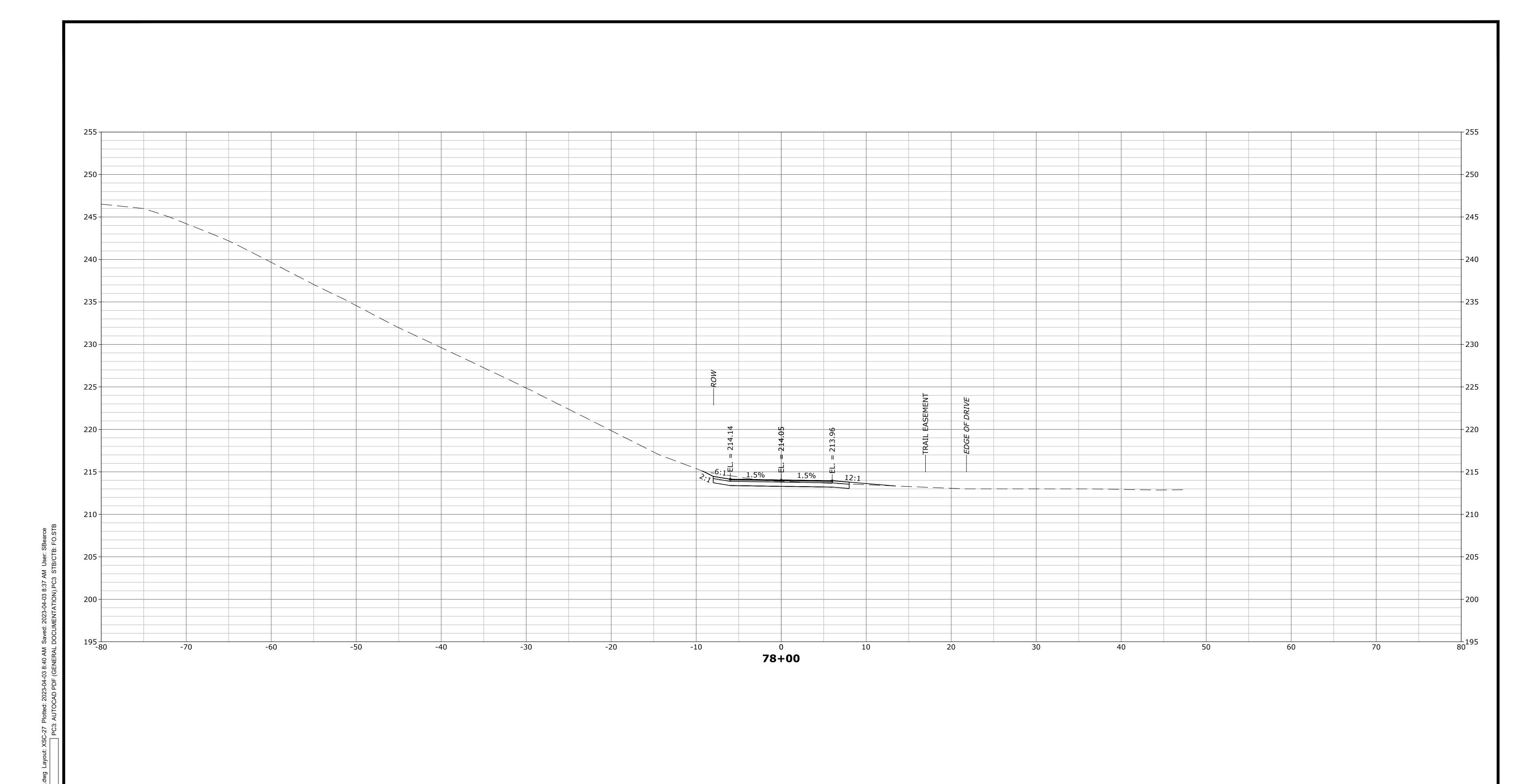
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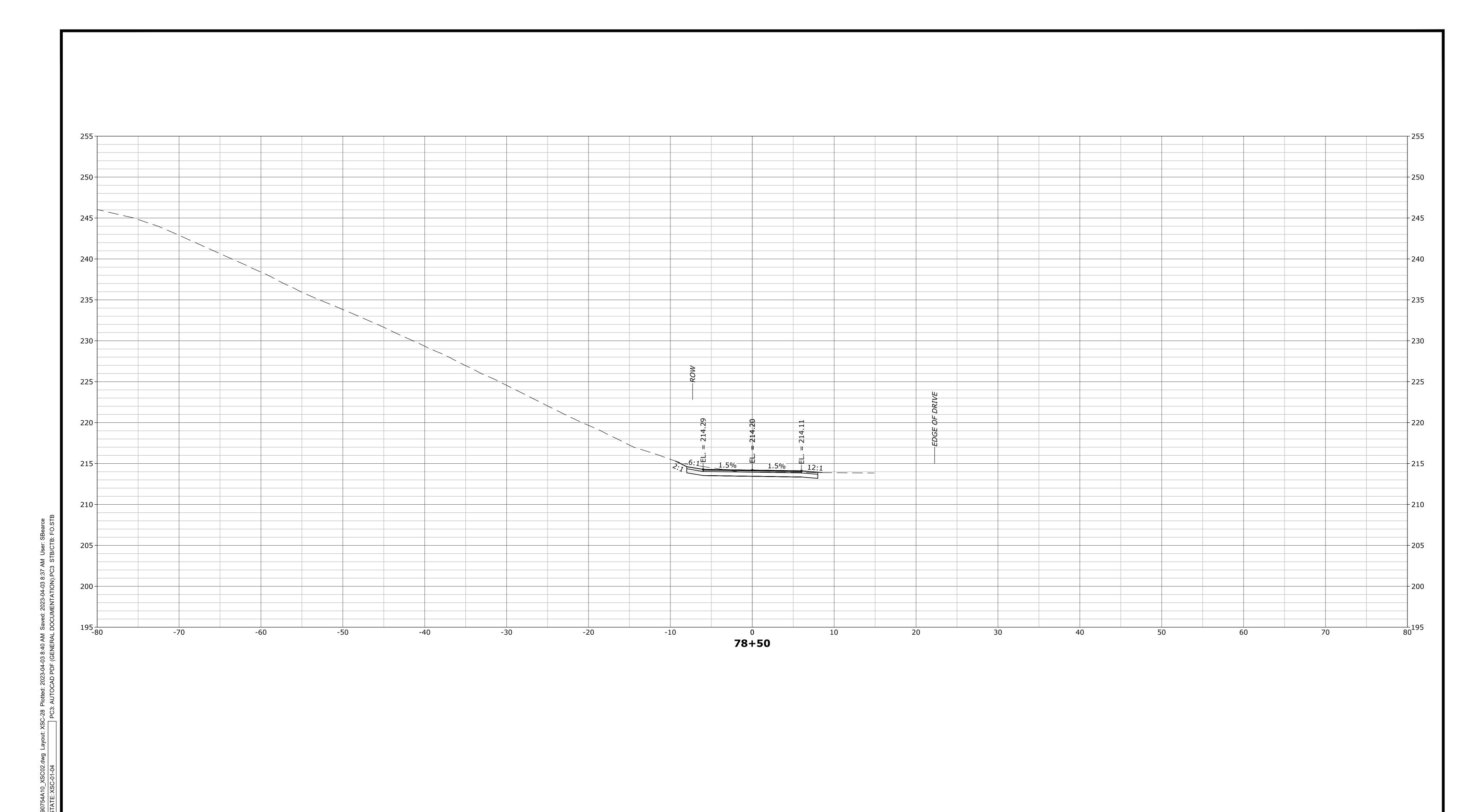


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CITY OF NEW BRITAIN
TRAIL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN CONNECTICUT



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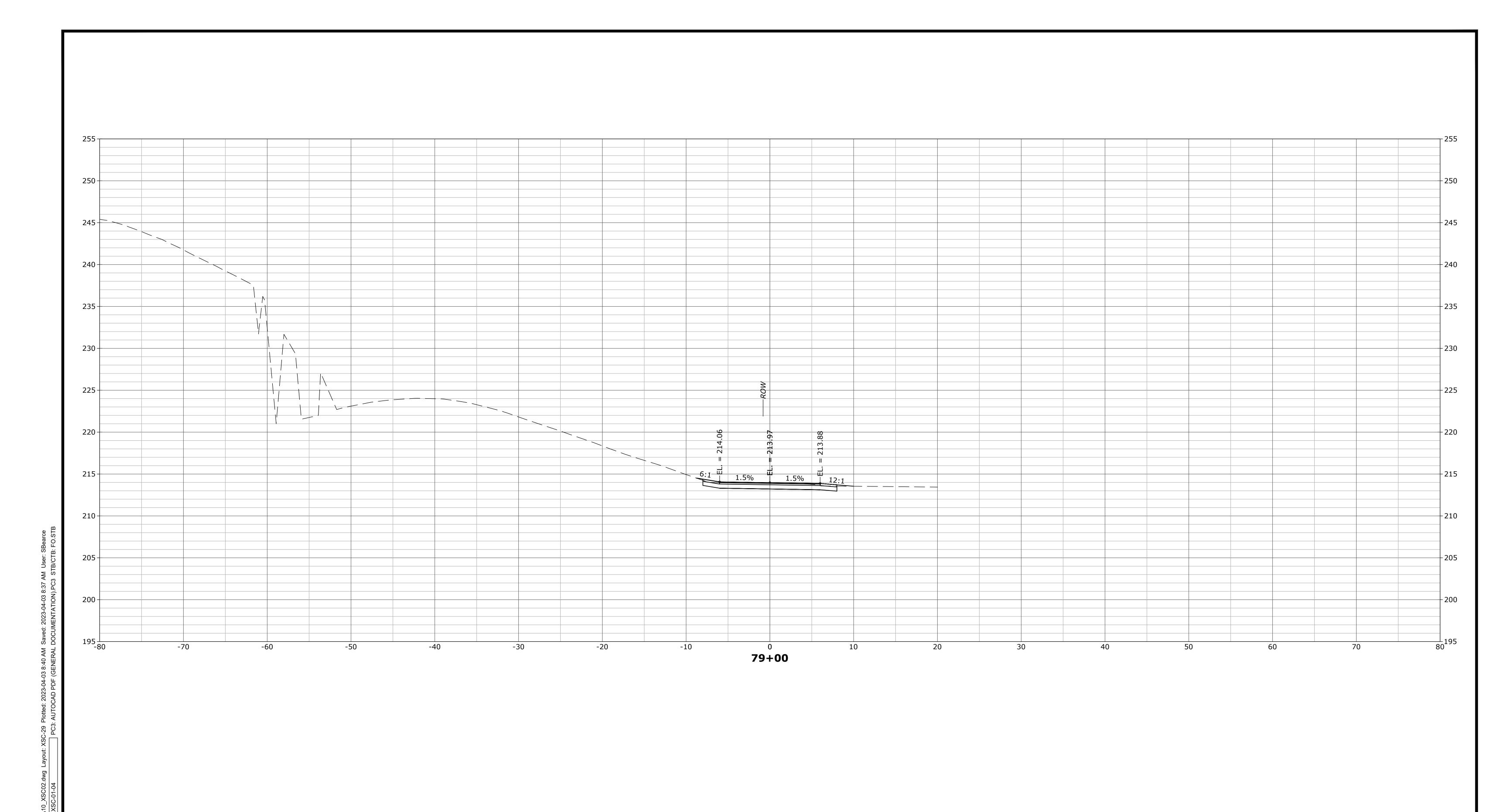
CITY OF NEW BRITAIN TRAIL CROSS SECTIONS

NEW BRITAIN

XSC-28

PROJ. No.: 20190754.A10 DATE: MARCH 2023

CONSTRUCTION OF BEELINE TRAIL - PHASE 2 CONNECTICUT



CONNECTICUT

				SEAL	SEAL	SCALE:	
				02,12	02,12	HORZ.: 1" = 5'	
						VERT.:	1 23 ,
						DATUM:	
						HORZ.: NAD83	
						VERT.: NAVD88	
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						GRAPHIC SCALE	
No.	DATE	DESCRIPTION	DESIGNER REVIEWER			GRAPHIC SCALE	

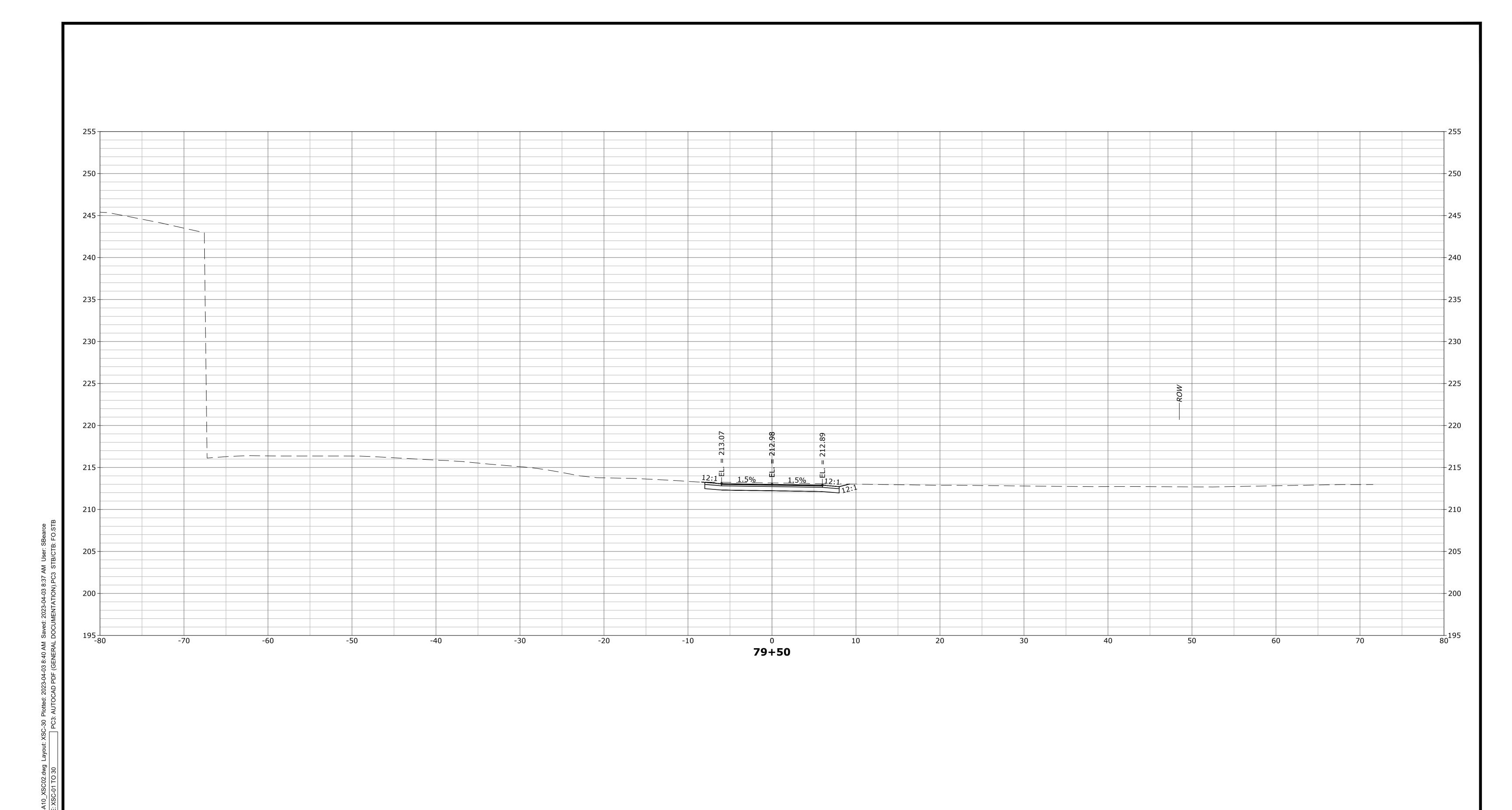


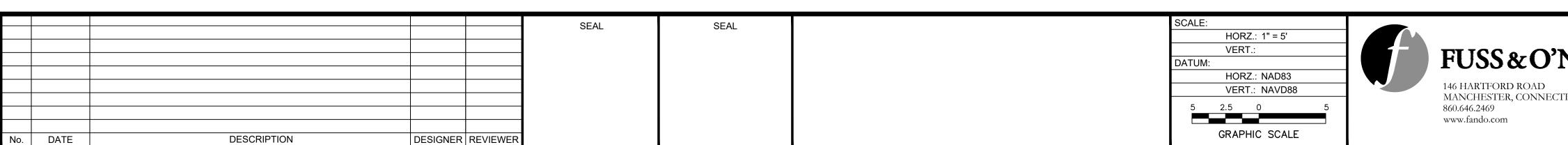
CITY OF NEW BRITAIN

TRAIL CROSS SECTIONS

CONSTRUCTION OF BEELINE TRAIL - PHASE 2

NEW BRITAIN



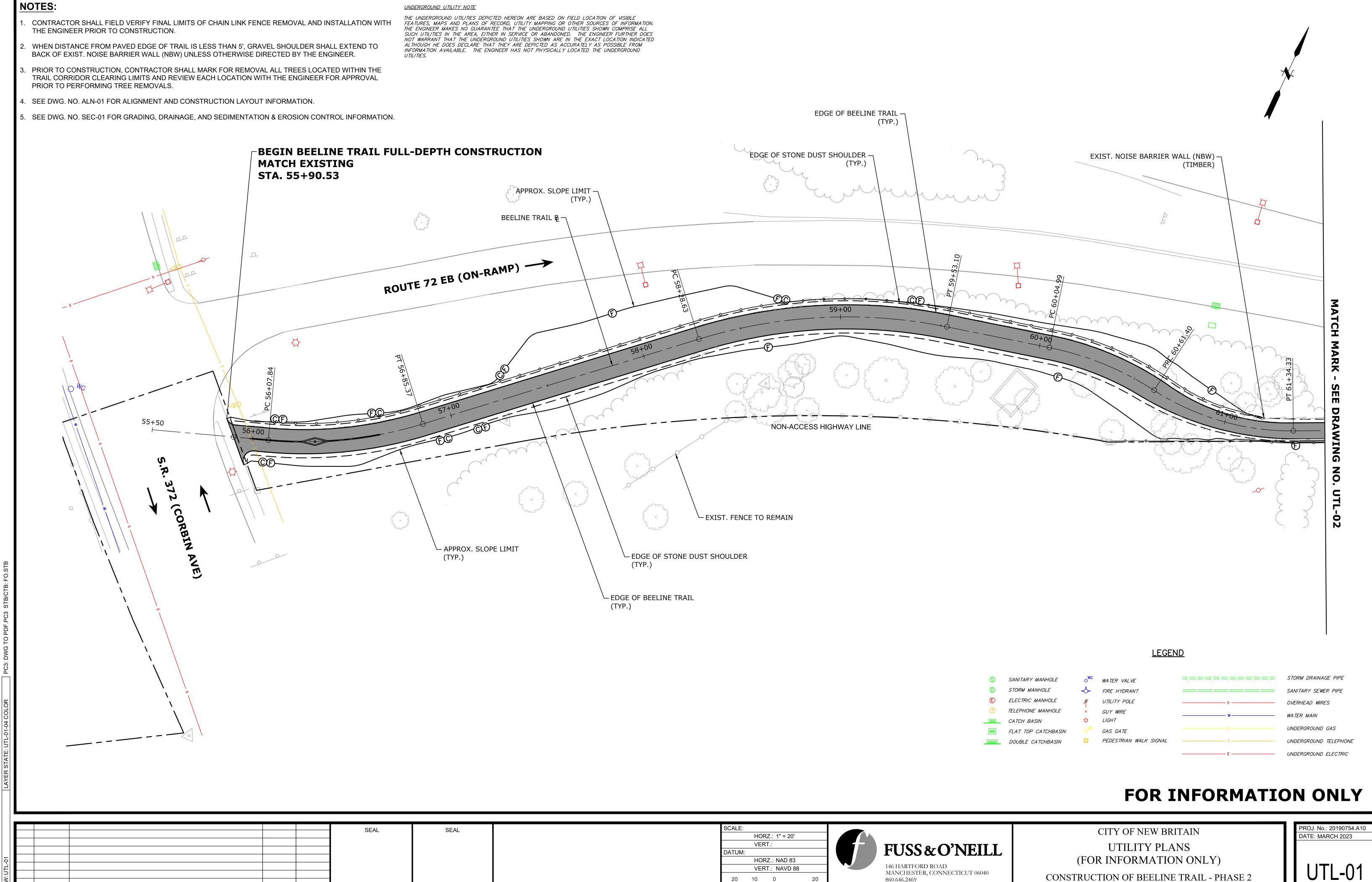




CITY OF NEW BRITAIN TRAIL CROSS SECTIONS

NEW BRITAIN

CONSTRUCTION OF BEELINE TRAIL - PHASE 2 CONNECTICUT



860.646.2469 www.fando.com

NEW BRITAIN

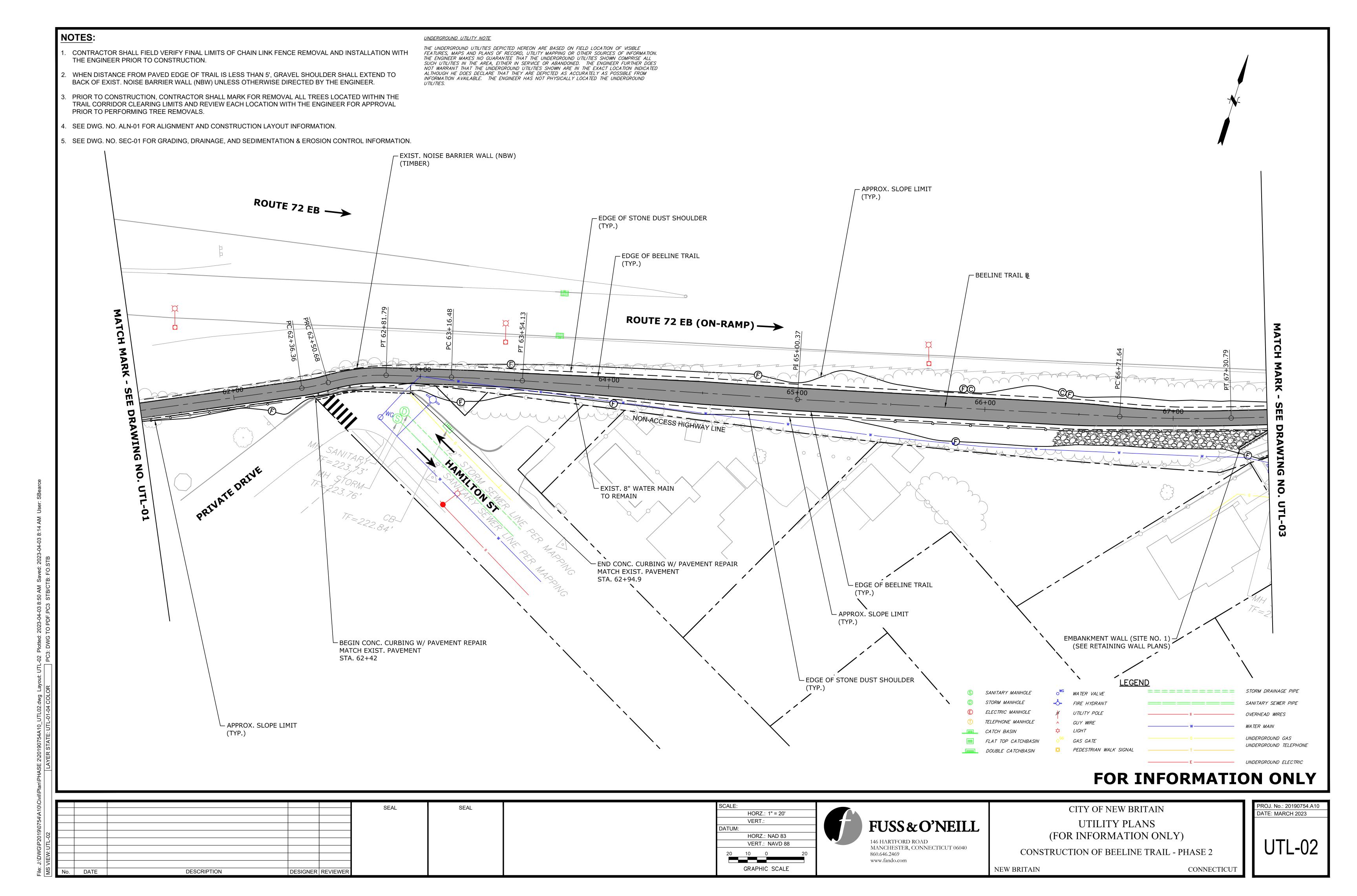
CONNECTICUT

GRAPHIC SCALE

No. DATE

DESCRIPTION

DESIGNER REVIEWER



GRAPHIC SCALE

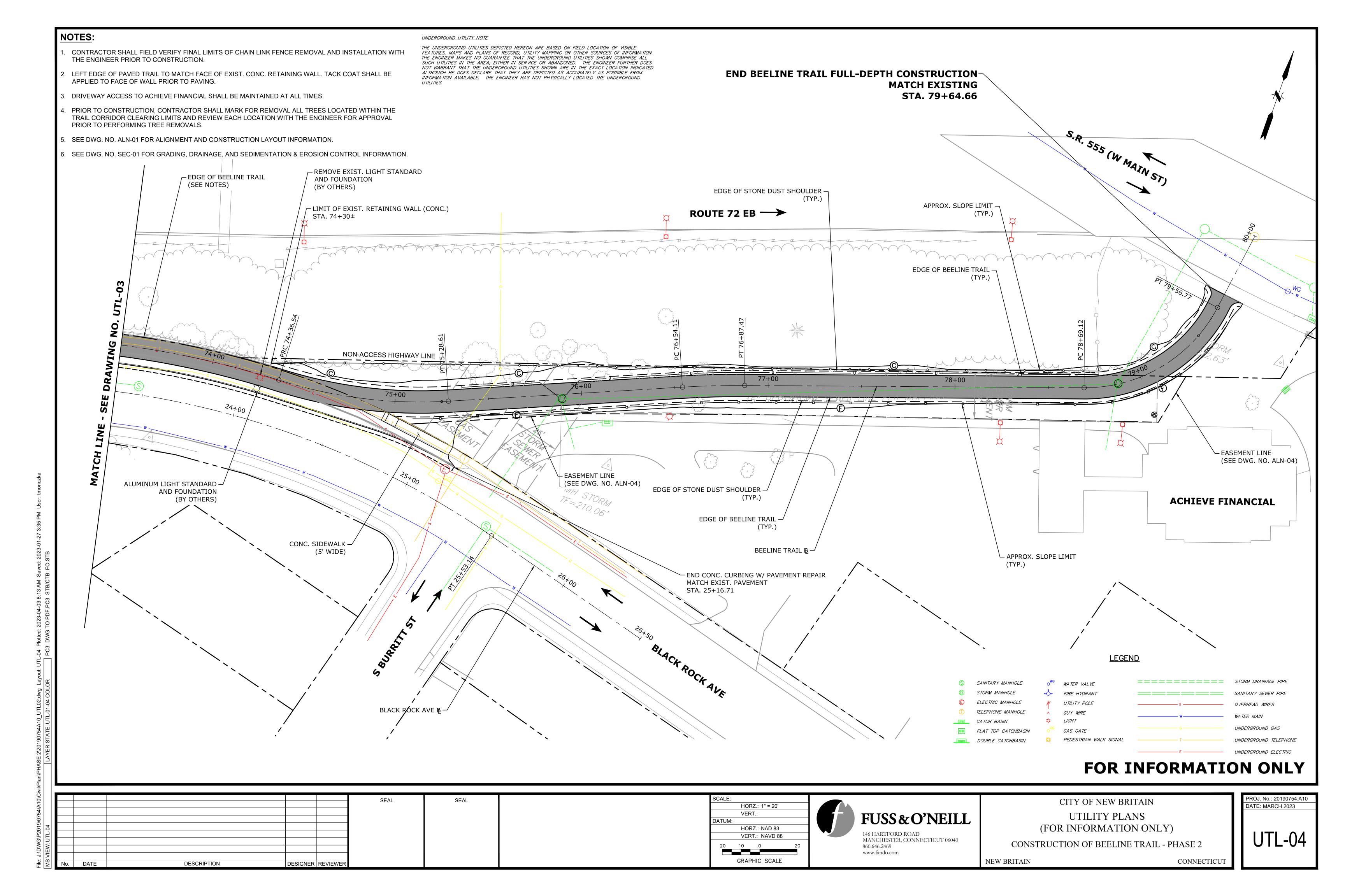
DESCRIPTION

DESIGNER REVIEWER

No. DATE

CONNECTICUT

NEW BRITAIN



*ONLY STANDARD SHEETS MARKED WITH AN "√" ARE IN THIS PROJECT # **REVISED OR ADDED

ANTI-TRACKING PAD DRAINAGE TRENCH EXCAVATION ENDWALLS STEEL REINFORCEMENT FOR ENDWALLS	11-01-21 7-15-20 11-01-21	HW-82
ENDWALLS		
	11-01-21	
STEEL REINFORCEMENT FOR ENDWALLS		HW-82
	11-01-21	HW-82
TYPE "D-G" & "L" ENDWALLS	7-13-12	HW-82
ENDWALLS FOR PIPE - ARCH	9-18-09	HW-82
CATCH BASIN AND DROP INLET TYPES "C" AND "C-L"	7-15-20	HW-82
CATCH BASIN TOPS (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE I	7-15-20	HW-82
CATCH BASIN TOPS (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE II	7-15-20	HW-82
PRECAST CATCH BASIN AND ROUND STRUCTURE	7-15-20	HW-82
PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I	7-15-20	HW-82
PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II	7-15-20	HW-82
CATCH BASIN TOPS TYPE "C" AND "C-L"	11-01-21	HW-82
CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS	11-01-21	HW-82
CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS	11-01-21	HW-82
CATCH BASIN TYPE "C-G" AND "C-M" BARRIER CURB TOPS	11-01-21	HW-82
CATCH BASIN FRAMES AND GRATES	7-15-20	HW-82
CATCH BASIN LOCK DOWN TOPS	7-15-20	HW-82
MANHOLE FRAME AND COVER	7-15-20	HW-82
MANHOLE FRAME AND GRATE	7-15-20	HW-82
REINFORCED PRECAST CONCRETE MANHOLE	11-01-21	HW-82
MANHOLE NON-PRECAST CONCRETE UNIT	7-15-20	HW-82
C.C.M. PIPE INSTALLATION	7-15-20	HW-82
PIPE ENDS	7-15-20	HW-82
UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12	HW-82
PAVED APRONS	11-01-21	HW-82
CONCRETE CURBING	6-07-17	HW-82
GRANITE STONE TRANSITION CURBING	7-24-13	HW-82
		HW-90
BITUMINOUS CONCRETE CURBING	6-07-17	HW-90
	CATCH BASIN TOPS (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE I CATCH BASIN TOPS (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE II PRECAST CATCH BASIN AND ROUND STRUCTURE PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II CATCH BASIN TOPS TYPE "C" AND "C-L" CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS CATCH BASIN TYPE "C" AND "C-M" BARRIER CURB TOPS CATCH BASIN FRAMES AND GRATES CATCH BASIN LOCK DOWN TOPS MANHOLE FRAME AND COVER MANHOLE FRAME AND GRATE REINFORCED PRECAST CONCRETE MANHOLE MANHOLE NON-PRECAST CONCRETE UNIT C.C.M. PIPE INSTALLATION PIPE ENDS UNDERDRAINS AND UNDERDRAIN OUTLETS PAVED APRONS CONCRETE CURBING GRANITE STONE TRANSITION CURBING STONE CURBING	CATCH BASIN TOPS (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE I 7-15-20 PRECAST CATCH BASIN AND ROUND STRUCTURE 7-15-20 PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II 7-15-20 PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II 7-15-20 PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II 7-15-20 PRECAST CATCH BASIN TOPS TYPE "C" AND "C-L" 11-01-21 CATCH BASIN TOPS TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS 11-01-21 CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS 11-01-21 CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS 11-01-21 CATCH BASIN TYPE "C" AND "C-M" BARRIER CURB TOPS 11-01-21 CATCH BASIN FRAMES AND GRATES 7-15-20 CATCH BASIN FRAMES AND GRATES 7-15-20 MANHOLE FRAME AND COVER 7-15-20 MANHOLE FRAME AND COVER 7-15-20 PRECAST CONCRETE MANHOLE 11-01-21 MANHOLE NON-PRECAST CONCRETE MANHOLE 11-01-21 MANHOLE NON-PRECAST CONCRETE MANHOLE 11-01-21 PRE ENDS 7-15-20 UNDERDRAINS AND UNDERDRAIN OUTLETS 7-12-12 PAVED APRONS 11-01-21 CONCRETE CURBING 6-07-17 GRANITE STONE TRANSITION CURBING 7-24-13 STONE CURBING 6-07-17

HW-821_01a HW-821_01b HW-821_01c HW-821_02a HW-821_02b HW-821_03a HW-821_03c HW-821_03c HW-821_03d HW-821_03d HW-821_03e HW-821_04a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1 TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2 TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1 45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	1-26-12 10-18-10 1-26-12 1-27-20 1-27-20 1-26-12 10-18-10 10-18-10
HW-821_01c HW-821_02a HW-821_02b HW-821_03a HW-821_03b HW-821_03c HW-821_03d HW-821_03d	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1 45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	1-26-12 1-27-20 1-27-20 1-26-12 10-18-10 10-18-10
HW-821_02a HW-821_02b HW-821_03a HW-821_03b HW-821_03c HW-821_03d HW-821_03d	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1 45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	1-27-20 1-27-20 1-26-12 10-18-10 10-18-10
HW-821_02b HW-821_03a HW-821_03b HW-821_03c HW-821_03d HW-821_03e	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	1-27-20 1-26-12 10-18-10 10-18-10
HW-821_03a HW-821_03b HW-821_03c HW-821_03d HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	1-26-12 10-18-10 10-18-10
HW-821_03b HW-821_03c HW-821_03d HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10 10-18-10
HW-821_03c HW-821_03d HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3 TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
HW-821_03d HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	
HW-821_03e		10 10 10
	TDANSITION - 32" (813) IEDSEV SHADE TO 45" (1145) F-SHADE	10-18-10
HW-821_04a	TRANSITION - 32 (013) JERSET SHAFE TO 43 (1143) T-SHAFE	7-24-13
	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
HW-821_04b	MERRITT PARKWAY - 2'(610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
HW-821_08a	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM	1-09-20
HW-821_08b	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM - REINF.	1-09-20
HW-821_09a	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM	1-09-20
HW-821_09b	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM - REINF.	1-09-20
HW-821_10a	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM	1-09-20
HW-821 10b	VERTICAL FACE CONC. (21"X54") TRANSITION FOR THRIE-BEAM REINF	11-01-21
HW-821_11a	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 1	1-27-20
HW-821_11b	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 2	1-27-20
HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
HW-822 02a	TEMPORARY TRAFFIC BARRIER - DETAILS	3-18-21
HW-822 02b	TEMPORARY TRAFFIC BARRIER (BOLTED)	3-18-21
HW-822 02c	TEMPORARY TRAFFIC BARRIER & TEMPORARY TRAFFIC BARRIER (PINNED)	3-18-21
HW-905_01	STONE WALL FENCE	1-25-19
HW-906_01	WIRE FENCE	1-25-19
	HW-821_07 HW-821_08a HW-821_08b HW-821_09a HW-821_10a HW-821_10a HW-821_11b HW-821_11b HW-821_11b HW-822_01 HW-822_02a HW-822_02c HW-822_02c HW-905_01	HW-821_06 54" (1372) VERTICAL SHAPE BARRIER HW-821_07 MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS HW-821_08a F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM HW-821_08b F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM - REINF. HW-821_09a SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM HW-821_09b SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM - REINF. HW-821_10a VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM HW-821_10b VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM REINF HW-821_11a 42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 1 HW-821_11b 42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 2 HW-822_01 TEMPORARY PRECAST CONCRETE BARRIER CURB HW-822_02a TEMPORARY TRAFFIC BARRIER - DETAILS HW-822_02b TEMPORARY TRAFFIC BARRIER (BOLTED) HW-822_02c TEMPORARY TRAFFIC BARRIER & TEMPORARY TRAFFIC BARRIER (PINNED) HW-905_01 STONE WALL FENCE

NOT TO SCALE

OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

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OF
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✓* SHEET NO.	TITLE	APPROVAL DATE**	✓* SHEET NO.	TITLE	APPROVAL DATE**
HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11	HW-910_26	THRIE-BEAM ATTACHMENT HARDWARE	1-09-20
HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11	HW-910_27	THRIE-BEAM ATTACHMENT	1-09-20
HW-910_03	METAL BEAM RAIL (TYPE MD-B 350) GUIDERAIL	6-09-11	HW-911_01	R-B END ANCHORAGE TYPE I AND II	1-25-19
HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11	HW-911_02	MD-B END ANCHORAGE TYPE I	1-05-18
HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13	HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	10-18-10
HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11	HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	7-24-13
HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	1-25-19	HW-913_01a	CHAIN LINK FENCE	5-06-19
HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11	HW-913_01b	CHAIN LINK FENCE HARDWARE	5-06-19
HW-910 09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	7-15-20	HW-913_02	CHAIN LINK FENCE GATES	5-06-19
HW-910 09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-15-20	HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	7-24-13
HW-910 10	METAL BEAM RAIL 8" (203) x 6" (152) BOX BEAM	7-24-13	HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	1-26-12
HW-910 11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12	HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	7-24-13
HW-910_12a	MERRITT PARKWAY GUIDERAIL LEADING END ATTACHMENTS AND SYSTEMS 2&3	7-24-13	HW-921_01	DRIVEWAY RAMPS AND SIDEWALKS	6-07-17
HW-910_12b	MERRITT PARKWAY GUIDERAIL HARDWARE DETAILS	7-24-13	HW-949_01a	LANDSCAPE PLANTING	6-15-19
HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13	HW-949_01b	TREE STAKING	6-15-19
HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11	HW-1800_01	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	1-25-19
HW-910 _− 13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13	HW-1800 02	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (MEDIAN/GORE)	1-25-20
HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13			
HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11			
HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11			
HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11			
HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11			
HW-910_17	R-B TERMINAL SECTION	11-01-21			
HW-910_18	METAL BEAM RAIL (TYPE MD-I) GUIDERAIL	10-18-10			
HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13			
HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	7-24-13			
HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	7-24-13			
HW-910_20	MASH W-BEAM HARDWARE	1-05-18			
HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	1-25-19			
HW-910_22	METAL BEAM RAIL (MD-B MASH) GUIDERAIL	1-05-18			
HW-910_23	METAL BEAM RAIL (R-B MASH) HALF & QUARTER POST SPACING GUIDERAIL	1-05-18			
HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	1-05-18			
HW-910_25	METAL BEAM RAIL TRANSITION 350 TO MASH	1-05-18			

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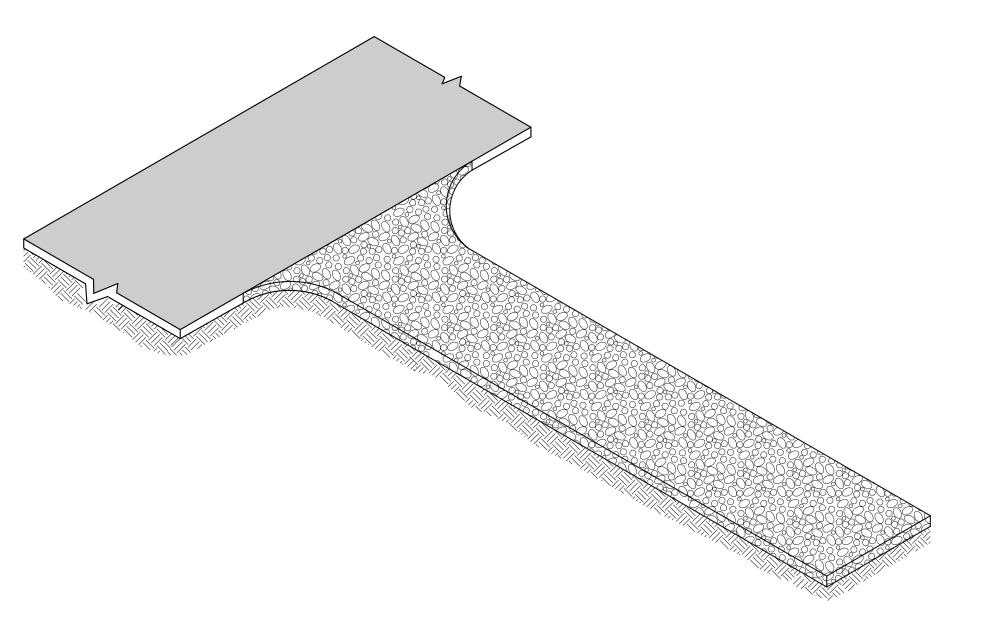
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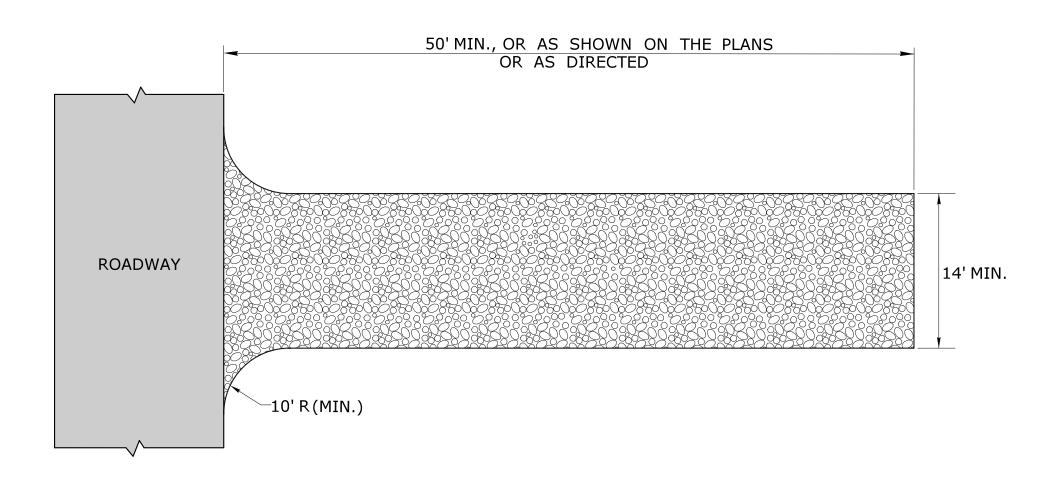
CTDOT STANDARD SHEET

GENERAL NOTE:

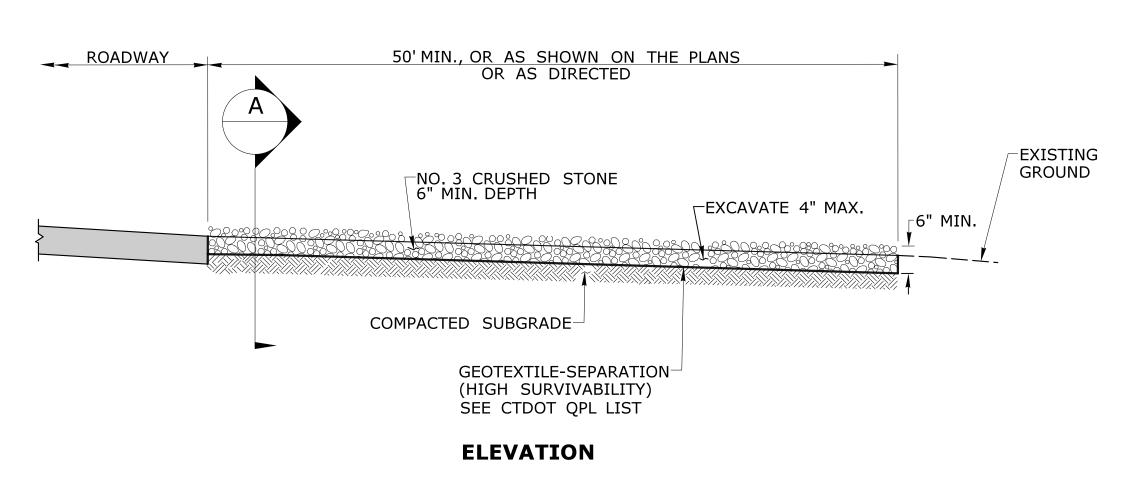
THE LENGTH OF THE ANTI-TRACKING PAD SHALL BE INCREASED AS DIRECTED FOR SITES COMPOSED OF CLAY OR SILTS.

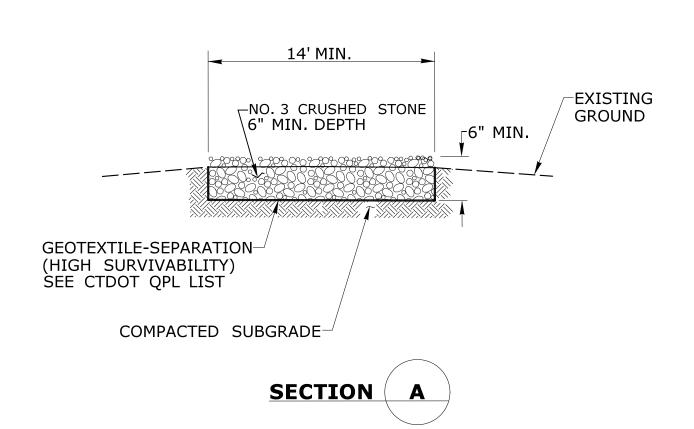


ANTI-TRACKING PAD



PLAN





SIGNATURE BLOCK:

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OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

SUBMITTED BY:

APPROVED BY:

STATE OF CONNECTICUT DEPARTMENT

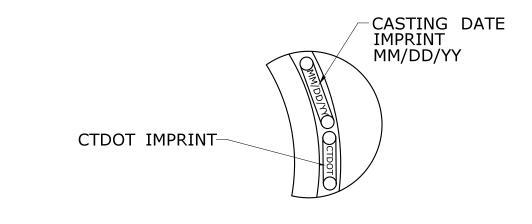
OF
TRANSPORTATION

CTDOT STANDARD SHEET STANDARD SHEET TITLE: ANTI-TRACKING PAD

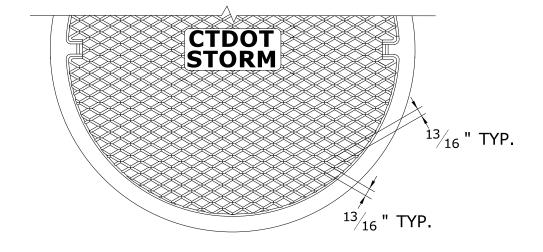
HW-211_01

GENERAL NOTES:

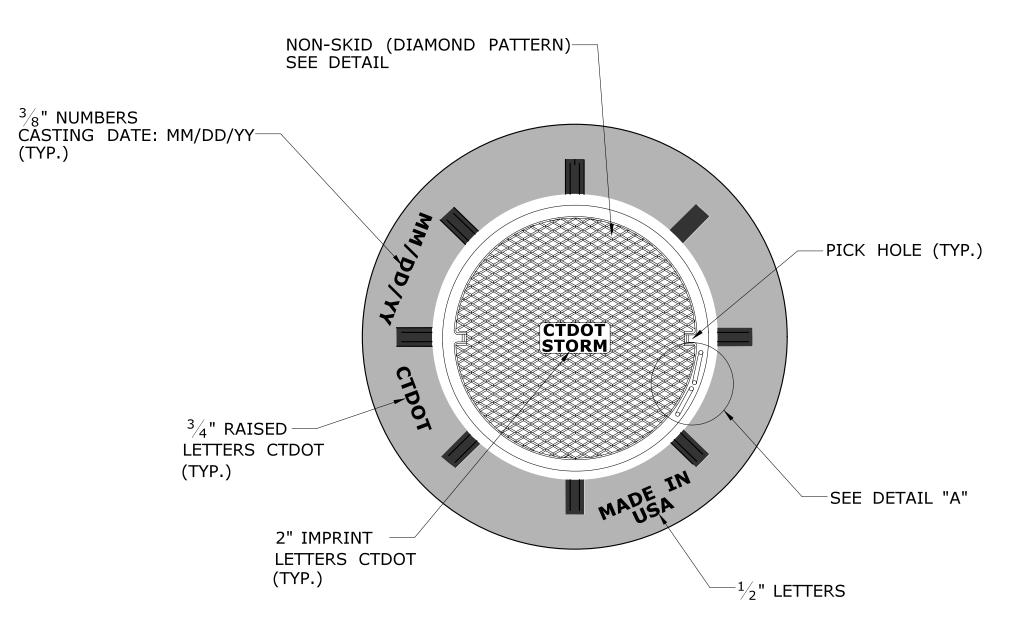
1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.



DETAIL "A"



DIAMOND PATTERN PLAN



PLAN

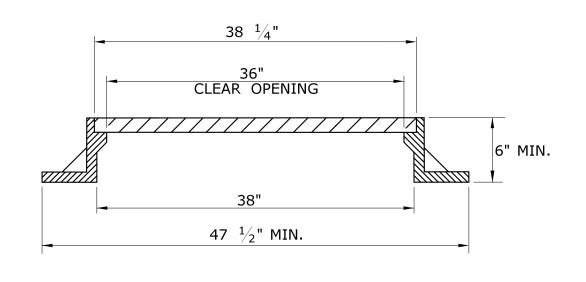
MANHOLE FRAME AND COVER

CTDOT STORM

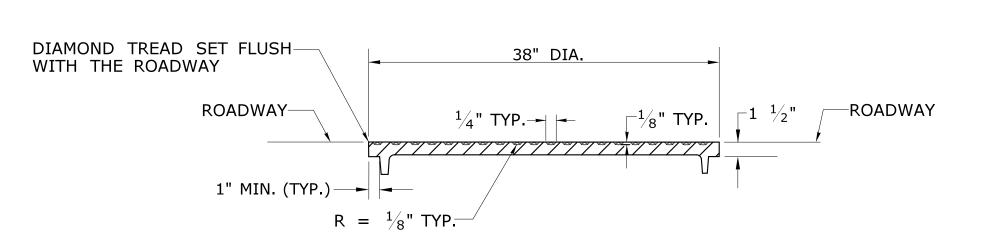
CTDOT

WW DD A

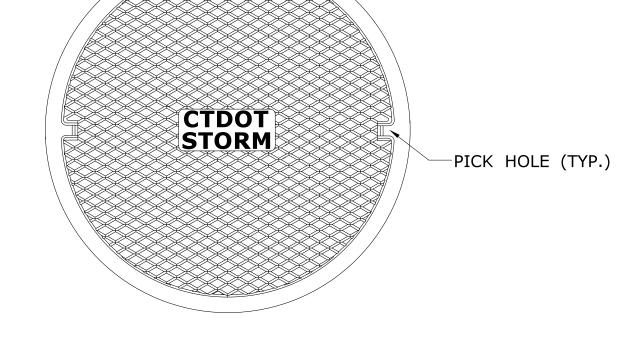
SEE DETAIL "A"—



MANHOLE FRAME AND COVER



MANHOLE COVER WITH DIAMOND PATTERN



MANHOLE COVER PLAN

NOT TO SCALE

SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

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APPROVED BY:

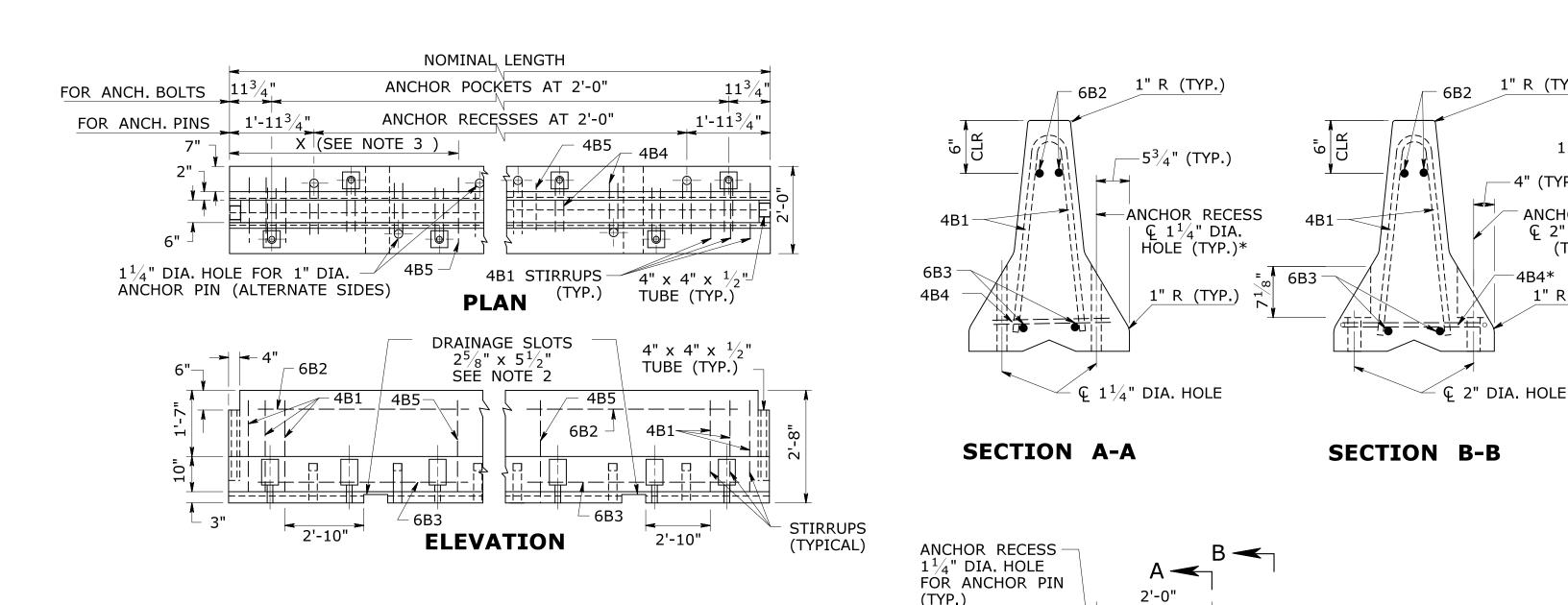
STATE OF CONNECTICUT DEPARTMENT

OF
TRANSPORTATION

CTDOT STANDARD SHEET STANDARD SHEET TITLE:

MANHOLE FRAME AND COVER

HW-586_10a



→ 4B1

5" FOR 6B3 & 6B2 REINFORCEMENT STEEL

REINFORCEMENT STEEL LIST (EACH BARRIER SECTION)

5"

5"

 $15\frac{1}{2}$

TYPE

STR.

STR.

STR.

GENERAL NOTES:

\[2" \ 2" \ 7" \]

- 6B5 🛼

 4B1

[∟]6B4

 $D \longrightarrow D$

 $D \longrightarrow D$

ELEVATION

1" R (TYP.)

 $1\frac{1}{2}$ " COV. MIN.

6"

2" 🧵

8"

SECTION D-D

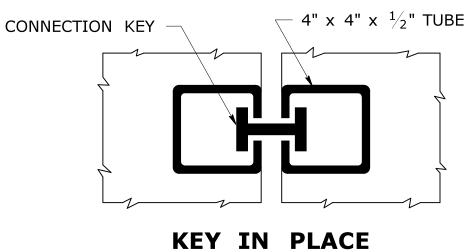
ANCHOR POCKET

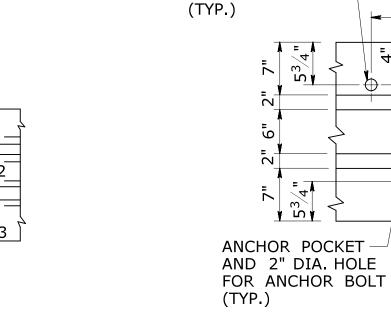
€ 2" DIA. HOLE

(TYPICAL)

1" R (TYP.)

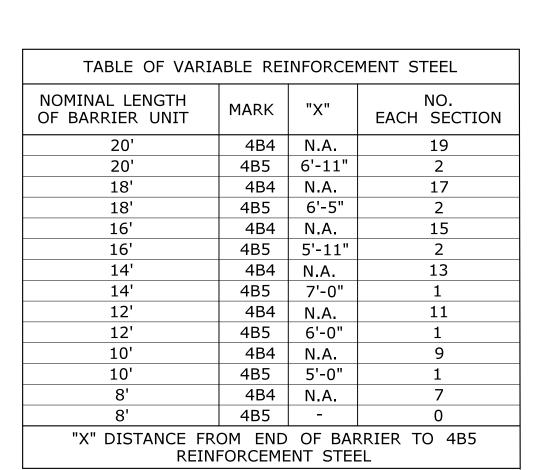
- 1. CONCRETE CLEAR COVER FOR REINFORCEMENT STEEL IS $1\frac{1}{2}$ " (MIN.).
- 2. $2\frac{5}{8}$ " X $5\frac{1}{2}$ " DRAINAGE SLOTS TWO REQUIRED IN SECTIONS 12 FEET AND GREATER. ONE REQUIRED IN 8 FOOT AND 10 FOOT SECTIONS.
- THE TEMPORARY TRAFFIC BARRIER IS IN UNITS OF 20 FEET, HOWEVER OTHER LENGTHS 4B5 REINFORCEMENT STEEL WILL VARY WITH THE LENGTH OF THE BARRIER UNIT AS SHOWN ON THE TABLE OF VARIABLE REINFORCEMENT STEEL. THE 6B2 AND 6B3 REINFORCEMENT STEEL TO BE PLACED 10 INCHES SHORTER THAN THE NOMINAL LENGTH OF THE BARRIER





PLAN-ANCHOR RECESS/POCKET

2'-0"

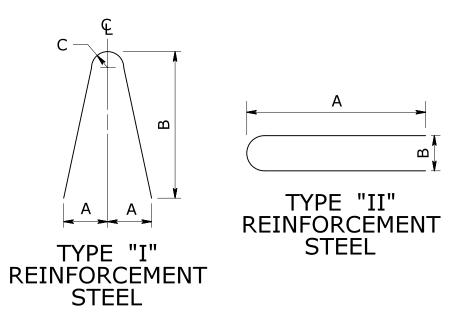


_6B3

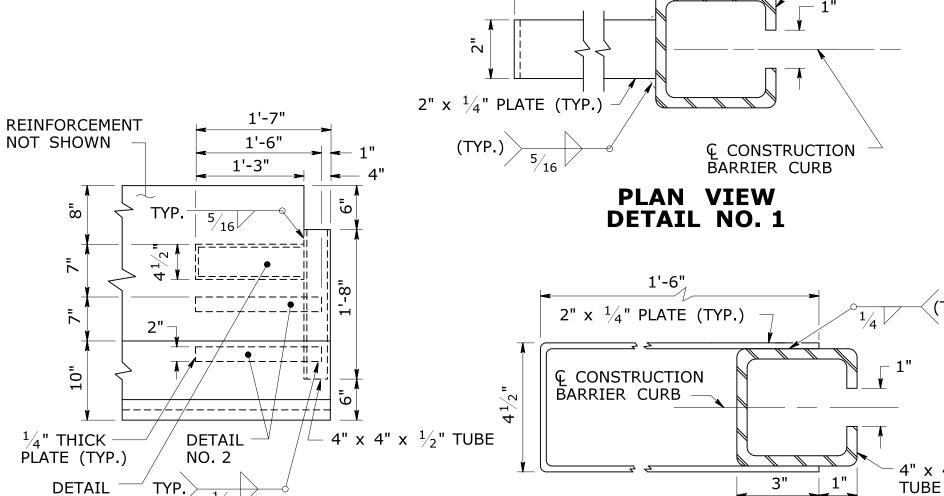
5³/₄" | 5³/₄" | 5¹/₂"

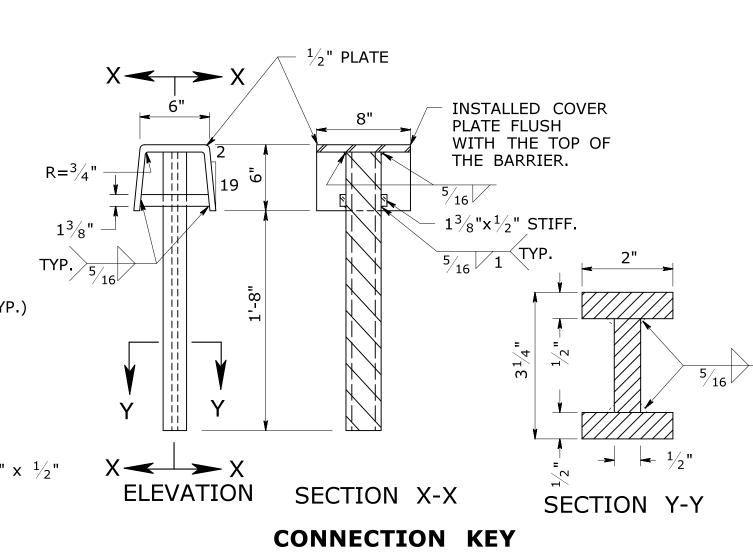
PLAN - BARRIER END





-L	NOT SHOWN —	1'-6"
		1'-3"
	¯ω TYP. ☐	5/16
SECTION)		
LOCATION	2"	
STIRRUPS	<u> </u>	/
STIRRUPS	" TO TO	7
STIRRUPS		· / / / /
LONGITUDINAL (TOP) NORMAL SECTION	<u> </u>	
LONGITUDINAL (BOTTOM) NORMAL SECTION		ETAIL — / L
TRANSVERSE (BOTTOM) NORMAL SECTION	PLATE (TYP.) N	O. 2
TRANSVERSE (TOP) NORMAL SECTION	DETAIL TYP. NO. 1	1/4
	ELE	VATION





TEMPORARY TRAFFIC BARRIER CONNECTION DETAILS

PLAN VIEW DETAIL NO. 2 4" x 4" x $\frac{1}{2}$ "

MASH 2016 COMPLIANT APPROVAL ID. 2021-01

NOT TO SCALE

NUMBER IN

EACH SECTION

SEE NOTE 3

SEE NOTE 3

2

LENGTH

4'-11"

3'-1"

4'-11"

1'-2"

0'-6"

SEE NOTE 3

SEE NOTE 3 | STR.

SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

С

26" 2"

26" 2"

4"

SUBMITTED BY: APPROVED BY:

STATE OF CONNECTICUT **DEPARTMENT TRANSPORTATION**

CTDOT STANDARD SHEET STANDARD SHEET TITLE: **TEMPORARY TRAFFIC BARRIER - DETAILS** HW-822_02c

MARK

4B1

4B4

4B5

6B2

6B3

6B4

6B5

SIZE

#4

#4

#4

#6

#6

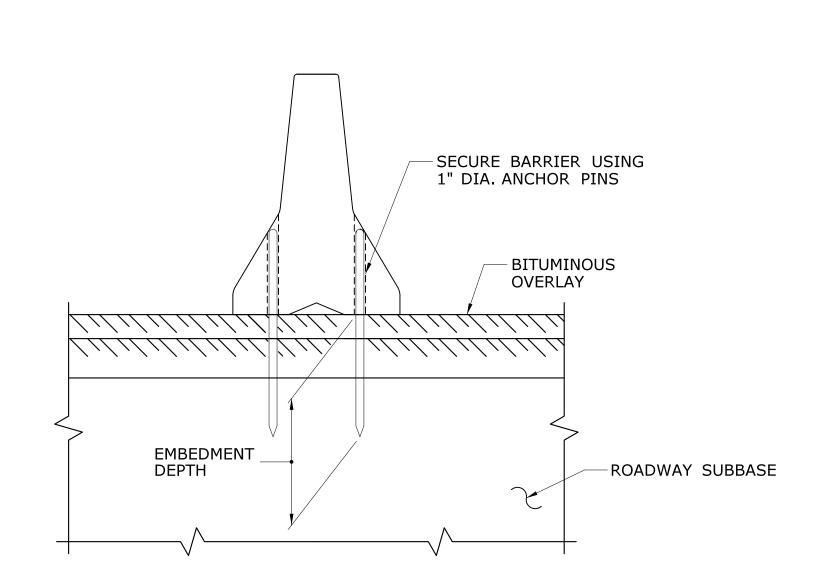
#6

#6

TRAFFIC SIDE -SECURE BARRIER USING 1" DIA. ANCHOR PINS - BITUMINOUS OVERLAY 11111111111 **EMBEDMENT** DEPTH -ROADWAY SUBBASE

END VIEW - TEMPORARY TRAFFIC BARRIER (PINNED)

SEE NOTES 2 & 3 FOR PIN OPTIONS ROADSIDE APPLICATION SHOWN



END VIEW - TERMINAL UNIT

GENERAL NOTES:

- 1. THE FIRST AND LAST TEMPORARY TRAFFIC BARRIER SHALL BE 20 FOOT IN LENGTH FOR EACH BARRIER RUN LAYOUT SHALL BE FULLY PINNED (9 PINS) ON BOTH SIDES.
- 2. TEMPORARY TRAFFIC BARRIER (PINNED) SHALL ONLY BE PINNED ON THE WORK AREA SIDE OF THE BARRIER AFTER THE REQUIRED LENGTH OF BARRIER IS PLACED.
- 3. TEMPORARY TRAFFIC BARRIER (PINNED) SHALL BE FULLY PINNED (9 PINS) IN LOCATIONS WHERE THE BARRIERS ARE DIVIDING OPPOSING TRAFFIC.
- 4. ALL ANCHOR PINS INSTALLED SHALL NOT PROJECT BEYOND THE TEMPORARY TRAFFIC BARRIER'S SURFACE.
- 5. INSTALL DELINEATORS AS REQUIRED, REFER TO TRAFFIC STANDARD SHEET NO. TR-1205_01.
- 7. TEMPORARY TRAFFIC BARRIER DESIGN DEFLECTION DISTANCES BY TYPE;

BARRIER TYPE **DEFLECTION 40" UNPINNED

20" PINNED

** MASH STANDARD DEFLECTION CAUSED BY 5,000 LB VEHICLE TRAVELING 62 MPH IMPACTING THE BARRIER AT 25 DEGREE ANGLE.

FOR ANCHORING IN CONCRETE SLABS, THE **ANCHOR PIN** TIP MAY BE OMITTED. TEMPORARY TRAFFIC BARRIER TYPE PINNING OPTIONS SEE NOTES 2 & 3 A 20' FULLY PINNED TERMINAL UNIT SEE NOTE 1

TEMPORARY TRAFFIC BARRIER

MASH 2016 COMPLIANT APPROVAL ID. 2021-01

NOT TO SCALE

SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

SUBMITTED BY:

NOTE A

ENSURE THAT THE LENGTH OF THE ANCHOR PIN IS SUCH THAT THE

FOLLOWING MINIMUM EMBEDMENT LENGTH IS OBTAINED:

(A) INTO CONCRETE PAVEMENT 0'-5"

(B) INTO FLEXIBLE PAVEMENT 1'-6"

`─ 1" DIA.

SEE NOTE A

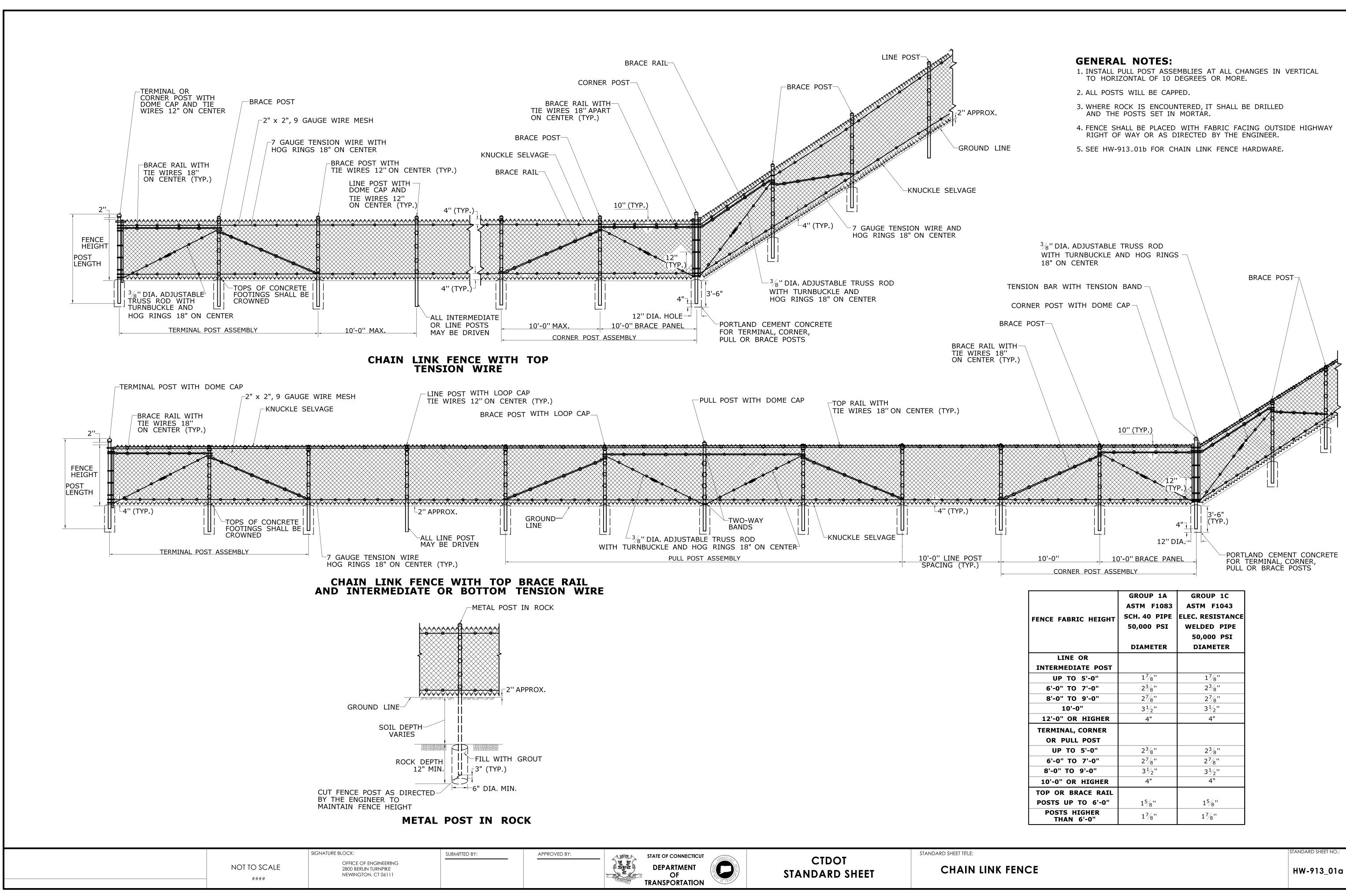
(C) INTO UNPAVED AREA 2'-6"

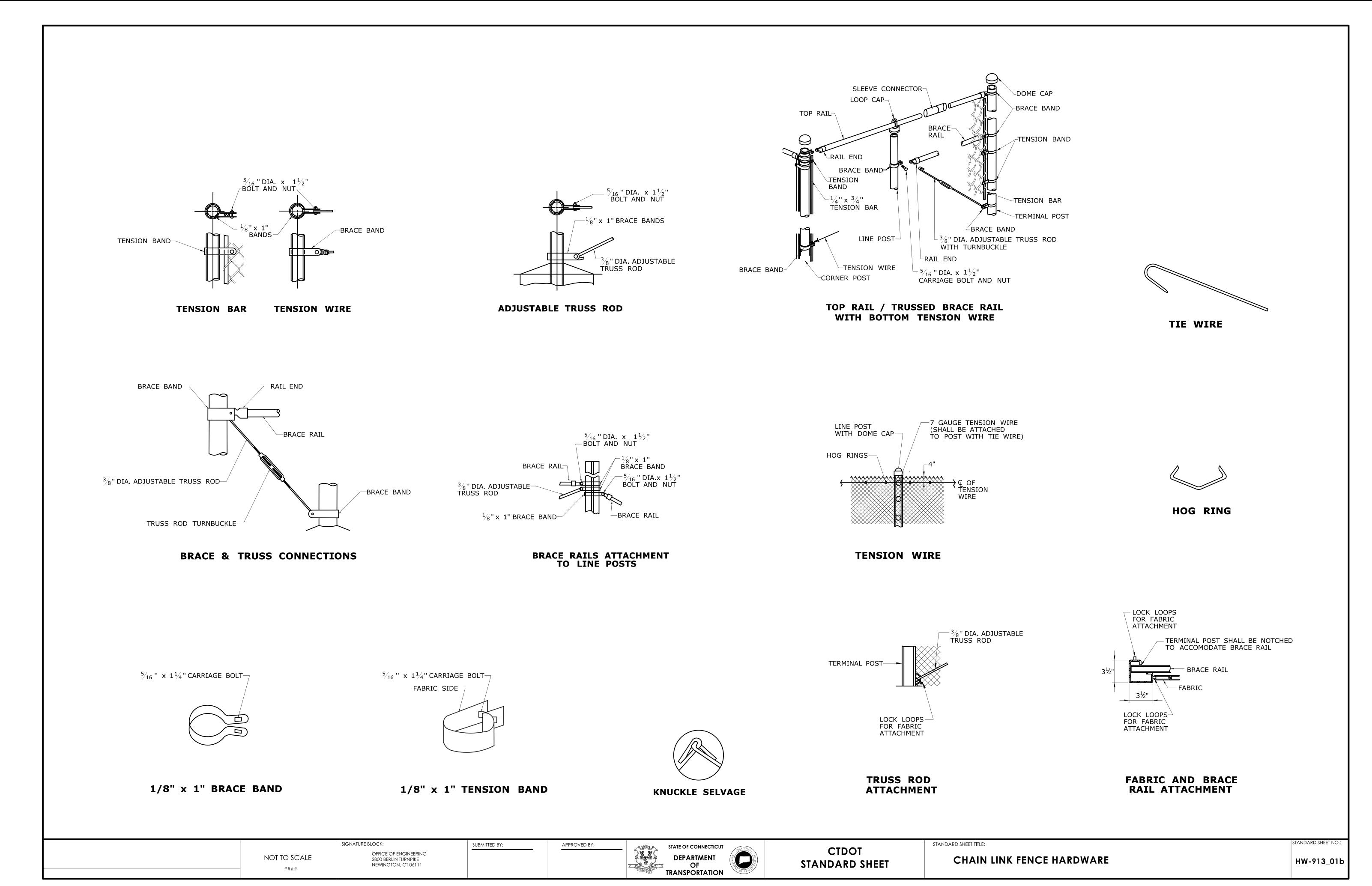
APPROVED BY:



CTDOT STANDARD SHEET STANDARD SHEET TITLE TEMPORARY TRAFFIC BARRIER AND TEMPORARY TRAFFIC BARRIER (PINNED)

HW-822-02c





ONLY STANDARD SHEETS MARKED WITH AN "V" ARE IN THIS PROJECT

SHEET NO.	TITLE	APPROVA DATE
TR-1000_01	GENERAL CLAUSES (TEST PROCEDURES)	1/2014
TR-1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	4/2012
TR-1002_01	TRAFFIC CONTROL FOUNDATIONS	1/2014
TR-1010_01	CONCRETE HANDHOLE	4/2014
TR-1102_01	PEDESTALS, PEDESTRIAN SIGNALS	4/2012
TR-1105_01	TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	8/2018
TR-1107_01	PEDESTRIAN PUSH BUTTON	8/2018
TR-1108_01	CONTROLLERS	5/2013
TR-1111_01	LOOP VEHICLE DETECTOR AND SAWCUT	4/2014
TR-1113_01	CONTROL CABLE	4/2014
TR-1114_01	BONDING & UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAILS	8/2018

SHEET NO.	TITLE	APPROVAL DATE
TR-1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS	8/2018
TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS	
TR-1208_02	_02 METAL SIGN POSTS AND SIGN MOUNTING DETAILS	
TR-1210_01	_01 PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	
TR-1210_02	02 PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	
TR-1210_03	SPECIAL DETAILS & TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS	
TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS	
TR-1210_05	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	4/2017
TR-1210_06	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	8/2018
TR-1210_07	PAVEMENT MARKINGS FOR EXIT RAMPS	4/2017
TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	8/2018
TR-1210_09	PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RR CROSSINGS	4/2017
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2018
TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2018

STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.
4	4-2017	REMOVED TR-1210_01 TO TR-1210_03. ADDED TR-1210_04 TO TR-1210_09	
3	4-2014	REMOVED TR-1111_02.	
2	1-2014	REMOVED TR-1103_01.	
1	4-2012	RENUMBERED TR-1107_02 TO TR-1114_01. REMOVED TR-1116_01.	
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/16/2018

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** Filename: CTDOT_TRAFFIC_STD_DGN.DGN

NAME/DATE/TIME: **CTDOT** STANDARD SHEET OFFICE OF ENGINEERING Model: TR-01-STD_INDEX

TRAFFIC STANDARD SHEET INDEX

TR-STD_INDEX