

Appendix B:

2021/2022 Renourishment Project Supporting Documents

Appendix B1: Construction Plans

Appendix B2: Planting Plans

Appendix B3: Preconstruction and Post
Construction Survey Profiles

Appendix B1:

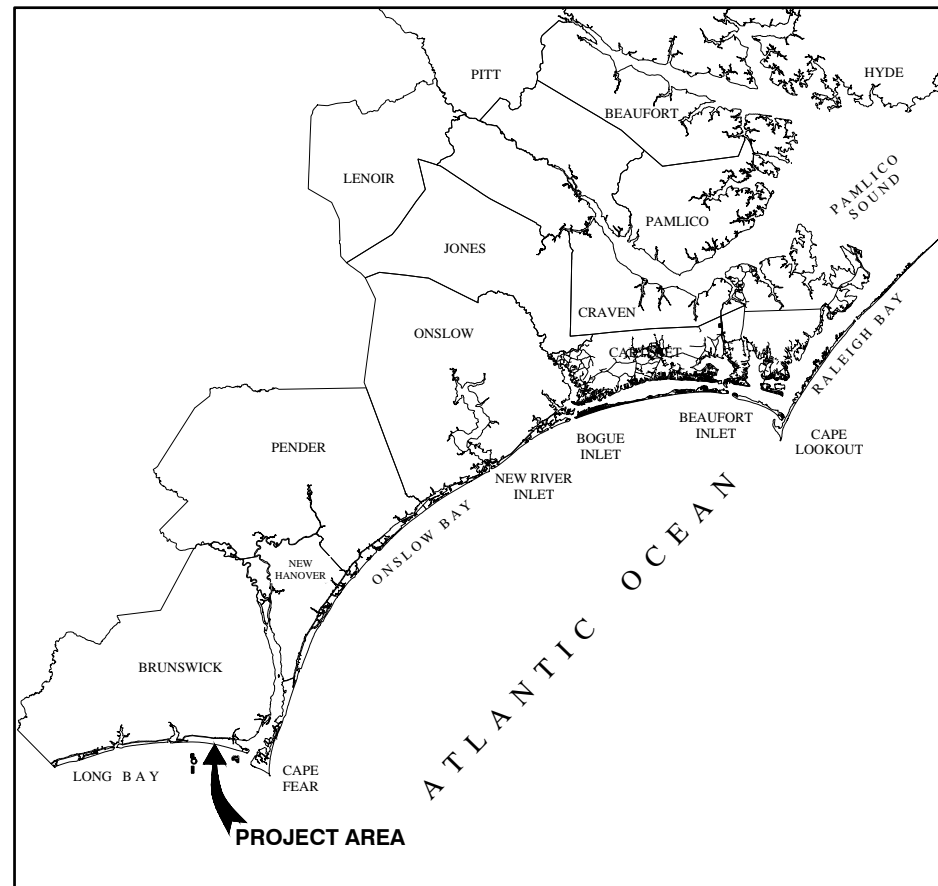
Construction Plans

OAK ISLAND RENOURISHMENT PROJECT 2021/2022

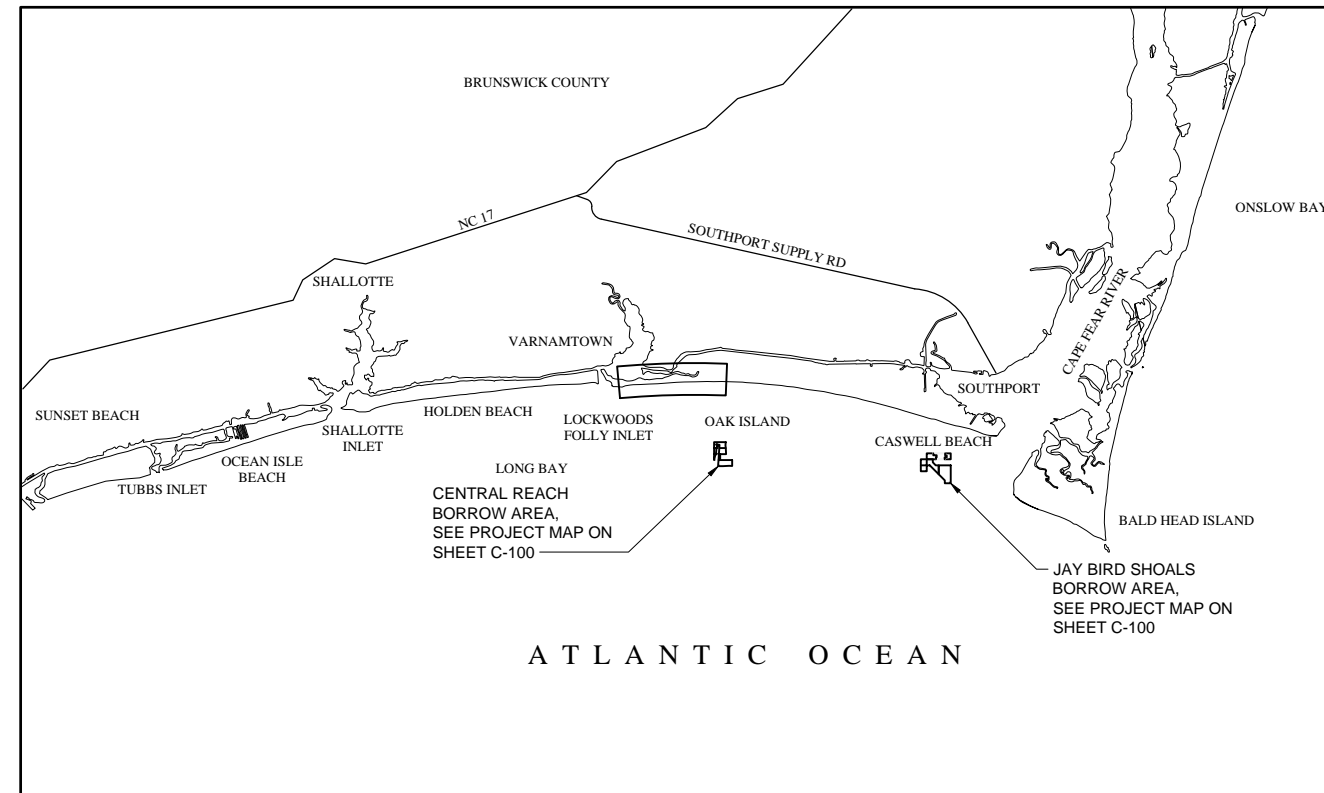
OAK ISLAND, NORTH CAROLINA



**TOWN OF OAK ISLAND
4601 E. OAK ISLAND DRIVE
OAK ISLAND, NC 28465**



VICINITY MAP
NTS



LOCATION MAP
NTS



Rev.	Date	Appr.	Description
0	2022-02-11	JDM	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

COVER SHEET

Designed by:	BPG	Drawn by:	VNM	Checked by:	NCV	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS NOTED	Per scale:	1:1 (0 SHEET)
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:									

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
G-001

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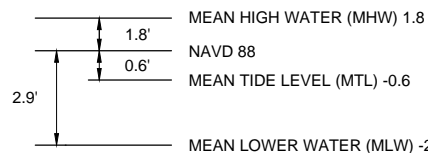
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GENERAL NOTES:

1. ALL BEACH FILL AND DREDGING WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL PLACE THE PERMIT PLACARDS ON THE JOB SITE AND SHALL COMPLY WITH ALL TERMS OF THE PERMITS PERTAINING TO THE PERFORMANCE OF THE WORK. SEE THE TECHNICAL SPECIFICATIONS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY OWNER OF DISCREPANCIES.
4. ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE CONTRACTORS RESPONSIBILITY.
5. THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS SHALL BE DISPOSED OF IN A PERMITTED LANDFILL.
6. THESE PLANS ARE INCOMPLETE WITHOUT THE PROJECT TECHNICAL SPECIFICATIONS. IF THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL ALERT THE OWNER AND ENGINEER. THE TECHNICAL SPECIFICATIONS SHALL TAKE PRECEDENCE.
7. THE STAGING AND ACCESS AREAS SHOWN ON C-103 ARE OWNED BY THE TOWN OF OAK ISLAND. COORDINATION WITH THE TOWN MANAGER SHALL BE REQUIRED BEFORE USE. FOR THE STAGING AND ACCESS AREAS, THE POINT OF CONTACT IS:

MR. DAVID KELLY
TOWN MANAGER
TOWN OF OAK ISLAND
4601 EAST OAK ISLAND DRIVE
OAK ISLAND, NC 28465
(910) 201-8002
dkelly@ci.oak-island.nc.us
8. STAGING AND ACCESS AREAS SHALL BE MAINTAINED BY THE CONTRACTOR. STAGING AND ACCESS AREAS SHALL BE CLEARED OF DEBRIS AND CONTRACTOR INSTALLED AMENITIES AT THE COMPLETION AND ACCEPTANCE OF WORK IN THE AREA. THE CONTRACTOR SHALL RESTORE THE STAGING AND ACCESS AREAS TO THEIR ORIGINAL CONDITION AFTER WORK IN THE AREA IS COMPLETE. THIS WORK INCLUDES REPLACEMENT OF FENCING, SIGNS, SAND FENCE, BEACH VEGETATION, WALKWAYS, DUNES, DUNE VEGETATION, PARKING FACILITIES, PAVED AREAS AND OTHER MISCELLANEOUS ITEMS. ALL REPLACEMENT MATERIALS SHALL BE APPROVED BY THE OWNER BEFORE INSTALLATION.
9. UNLESS OTHERWISE APPROVED BY THE OWNER, EXCESS EQUIPMENT MAY ONLY BE STORED IN APPROVED STORAGE/STAGING AREAS OR TEMPORARY AREAS IN THE IMMEDIATE VICINITY OF THE BEACHFILL PLACEMENT SITE. THE OWNER RESERVES THE RIGHT TO LIMIT SUCH AREAS AS DEEMED NECESSARY. OPERATION OF GRADING AND OTHER CONSTRUCTION EQUIPMENT WILL NOT BE PERMITTED OUTSIDE THE WORK AREA LIMITS EXCEPT FOR INGRESS AND EGRESS OF THE SITE AT APPROVED LOCATIONS. THE STACKING OF DISCHARGE PIPES IN LAYERS EXCEEDING TWO PIPES HIGH SHALL BE PROHIBITED IN ANY OF THE STORAGE OR STAGING AREAS INCLUDING THE TEMPORARY AREAS.
10. ANY EXISTING SIGNS, FENCES, OR OTHER STRUCTURES WITHIN THE WORK LIMITS SHALL BE PROTECTED AND/OR REMOVED AND LATER REPLACED BY THE CONTRACTOR AS DIRECTED.
11. THE PLANE COORDINATES AND BEARINGS SHOWN FOR THE DREDGING SURVEYS ARE BASED ON THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 83 (NAD 83).
12. ALL ELEVATIONS SHOWN ON THE DREDGING DRAWINGS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
13. THE BATHYMETRY PRESENTED ON THE DREDGING PLANS FOR CENTRAL REACH BORROW AREA IS BASED ON A SURVEY COMPLETED IN JUNE 2019 BY GEODYNAMICS AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.
14. THE BATHYMETRY PRESENTED ON THE DREDGING PLANS FOR JAY BIRD SHOALS BORROW AREA IS BASED ON A SURVEY COMPLETED IN DECEMBER 2021 BY TI COASTAL AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.
15. THE BATHYMETRY/TOPOGRAPHY PRESENTED ON THE BEACH FILL PLANS AND SECTIONS IS BASED ON A SURVEY COMPLETED IN MAY 2021 BY TI COASTAL AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.
16. THE AERIAL IMAGERY PRESENTED ON THE BEACH FILL PLANS IS A NOAA AERIAL FROM AUGUST 4, 2020 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME.
17. THE MEAN HIGH WATER ELEVATION AND MEAN LOW WATER ELEVATION SHOWN ON THE BEACH FILL DRAWINGS AND BELOW ARE BASED ON NOAA TIDAL DATUMS AT THE OAK ISLAND, ATLANTIC OCEAN, NC STATION.



BID QUANTITIES

1. THE FOLLOWING ESTIMATES OF SAND QUANTITIES REQUIRED FOR THE PROJECT ARE:

BASE BID	658,000 CY
ADD ALTERNATE 2	107,000 CY

DREDGING

1. ALL DREDGING SHALL BE PERFORMED WITHIN THE LIMITS OF THE PERMITTED DREDGING AREA AS SHOWN IN THE DRAWINGS.
2. PIPELINE CORRIDOR SHALL BE DELINEATED ON A DRAWING BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
3. A POST-DREDGE SURVEY OF THE BORROW AREA SHALL BE COMPLETED BY AN INDEPENDENT PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NORTH CAROLINA, COORDINATED AND PAID FOR BY THE CONTRACTOR TO STANDARDS OUTLINED IN THE TECHNICAL SPECIFICATIONS.

BEACH FILL

1. ALL SAND EXCAVATED FROM THE BORROW AREAS SHALL BE TRANSPORTED TO, AND DEPOSITED ON, THE BEACH BETWEEN THE LINES, GRADES, AND CROSS-SECTIONS SHOWN ON THE DRAWINGS.
2. AFTER NOTIFICATION BY THE CONTRACTOR OF THEIR INTENT TO COMMENCE DREDGING AND SAND PLACEMENT, A CURRENT BEACH SURVEY WILL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 4 WEEKS PRIOR TO THE COMMENCEMENT OF BEACH FILL PLACEMENT. THE UPDATED BEACH SURVEY WILL BE USED TO ADJUST THE LIMITS AND GRADE LINES TO MEET THE APPROXIMATE FILL DENSITIES PROVIDED WITH THE SECTIONS ON SHEETS C-301 THROUGH C-315.
3. SAND SHALL BE PLACED WITHIN THESE LIMITS AND GRADE LINES AS PRACTICALLY AS POSSIBLE. TOLERANCE SHALL BE WITHIN ±0.5 FOOT FOR BERM ELEVATION AND WIDTHS OUT TO THE MEAN TIDE LEVEL (MTL). PAYMENT WILL BE MADE FOR THE CY/FT SHOWN ON THE PLANS WITH A TOLERANCE OF ±10%. EVERY ATTEMPT WILL BE MADE BY THE CONTRACTOR TO FILL WITHIN THE PRESCRIBED TEMPLATE. SEE TECHNICAL SPECIFICATIONS. THE BEACH FILL SHALL BE PLACED BY REACH GENERALLY FROM EAST TO WEST.
4. THE OWNER MAY MAKE ALTERATIONS IN THE PLAN DIMENSIONS, GRADE OF SLOPES, OR VOLUME OF FILL PER FOOT OF BEACH IN ORDER TO ACCOUNT FOR CHANGED CONDITIONS SINCE THE TIME OF THE EXISTING CONDITIONS SURVEY. THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER TO ENSURE THAT THE TOTAL QUANTITY OF SAND ALLOWED UNDER THE CONTRACT IS PLACED AS EFFECTIVELY AS POSSIBLE.
5. CONTRACTOR SHALL TAKE CARE TO GRADE THE DUNE AND BERM SO THAT PONDING LANDWARD OF THE CREST IS MINIMIZED. AFTER SURVEY FOR PAYMENT, ANY TROUGH BETWEEN CONSTRUCTED DUNE AND EMERGENCY DUNE TIE-IN SHOULD BE FILLED AND LEVELED USING MATERIAL FROM EMERGENCY DUNE. EMERGENCY DUNE DOES NOT HAVE ANY EXISTING VEGETATION.
6. EXISTING WALKWAYS SHALL REMAIN AND NOT BE DAMAGED BEYOND CURRENT CONDITIONS. ANY ADDITIONAL DAMAGE WILL BE REPAIRED OR REPLACED AT THE CONTRACTORS COST AS DIRECTED BY THE OWNER OR THE ENGINEER. FILL SHALL BE PLACED COMPLETELY UNDERNEATH AND/OR AROUND STRUCTURES.
7. CONTOURS FOR THE BEACH FILL PLANS ARE SHOWN AT 1 FT INTERVALS.
8. PRE- AND POST-CONSTRUCTION SURVEYS OF THE BEACH AREA SHALL BE COMPLETED BY AN INDEPENDENT PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NORTH CAROLINA, COORDINATED AND PAID FOR BY THE CONTRACTOR. TRANSECTS SHALL BE AT 100-FOOT INTERVALS. ADDITIONAL ELEVATIONS SHALL BE TAKEN AS NECESSARY TO ACCURATELY REPRESENT TOPOGRAPHY OF THE BEACH AREA.
9. BEACH FILL SLOPES CALLED OUT ON PLANS ARE HORIZONTAL : VERTICAL.
10. SEE TECHNICAL SPECIFICATION FOR ADDITIONAL PLACEMENT REQUIREMENTS.
11. THE CONTRACTOR SHALL PROVIDE TEMPORARY SAND RAMPS OVER THE PIPELINE FOR PEDESTRIAN AND EMERGENCY VEHICLE ACCESS ALONG THE BEACH. THE MAXIMUM DISTANCE BETWEEN THESE TEMPORARY SAND RAMPS SHALL BE 500 FEET. THESE TEMPORARY SAND RAMPS SHALL BE LEVELED ONCE THE PIPELINE HAS BEEN MOVED. THE CONTRACTOR SHALL ALSO CONSTRUCT A BARRIER TO KEEP THE PUBLIC AT LEAST 250 FEET FROM THE DISCHARGE PIPE IN BOTH DIRECTIONS UP AND DOWN THE BEACH. SEE THE TECHNICAL SPECIFICATIONS.
12. POST AND ROPE SHALL BE INSTALLED AT DUNE WALKOVERS, BEACH PUBLIC ACCESSES, AND EMERGENCY VEHICLE ACCESSES WITHIN 7 DAYS OF THE BEACHFILL SECTION BEING COMPLETED.



JDM	Date	Description
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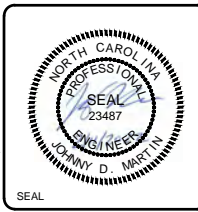
OAK ISLAND RENOURISHMENT
PROJECT 2021/2022

DRAWING INDEX AND
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Drawn by: VNM	Check by: NCV	Reviewed by: JDM	Submitted by: MOFFATT & NICHOL		

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0106

moffatt & nichol



Sheet
Reference No.
G-002
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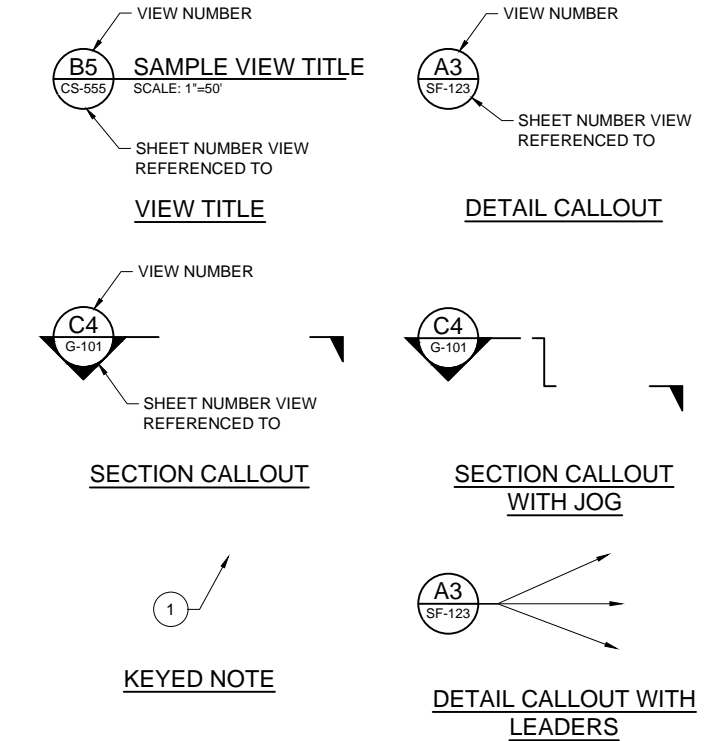
ABBREVIATIONS

CY	CUBIC YARDS	No.	NUMBER
FT	FEET OR FOOT	TYP	TYPICAL
MHW	MEAN HIGH WATER	VEG	VEGETATION
MLW	MEAN LOW WATER	WP	WORK POINT
MTL	MEAN TIDE LEVEL	B.L.	BASELINE
NAD	NORTH AMERICAN DATUM	@	AT
NAVD	NORTH AMERICAN VERTICAL DATUM	-	APPROXIMATELY
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		

LEGEND

EXISTING		PROPOSED
---	MEAN HIGH WATER LINE	---
---	MEAN LOW WATER LINE	---
---	MEAN TIDE LEVEL LINE	---
---	PROPERTY LINE	
---	MAJOR CONTOUR	
---	MINOR CONTOUR	
---	FILL SLOPE LIMIT	---
---	FILL SLOPE BREAK	---
⊗	CONSTRUCTION BASELINE WORK POINT	⊕ WP-##
⊗	NGS STATION	
⊗	NAME	

LEGEND

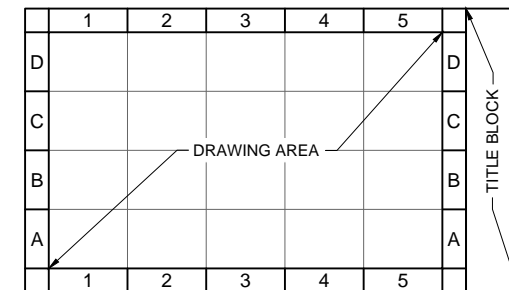


* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM;
 "VIEW NO./SHEET NO." (EG A1/CS-5001)

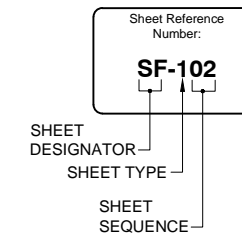
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1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (NOT TYPICALLY USED)
3	SECTIONS (OVERALL VIEWS)
4	LARGE-SCALE VIEWS (PLANS, SECT. OR ELEV. - NOT DETAILS)
5	DETAILS (MAY BE PLAN, SECT. OR ELEV. VIEWS)
6	SCHEDULES
7	USER DEFINED
8	USER DEFINED
9	3D ISOMETRIC

DISCIPLINE DESIGNATORS	
DISCIPLINE	DESIGNATOR
GENERAL	G
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL WORKS	W
CIVIL	C
STRUCTURAL	S
MECHANICAL	M
ELECTRICAL	E
OTHER DISCIPLINES	X

SECONDARY DESIGNATORS	
DEMOLITION	D
GENERAL	G
SUBSTRUCTURE	B
FRAMING	F
COMPONENT	C
SITE	S



DRAWING AREA COORDINATE SYSTEM (DACS)



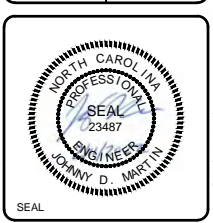
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OAK ISLAND RENOURISHMENT PROJECT 2021/2022

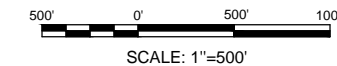
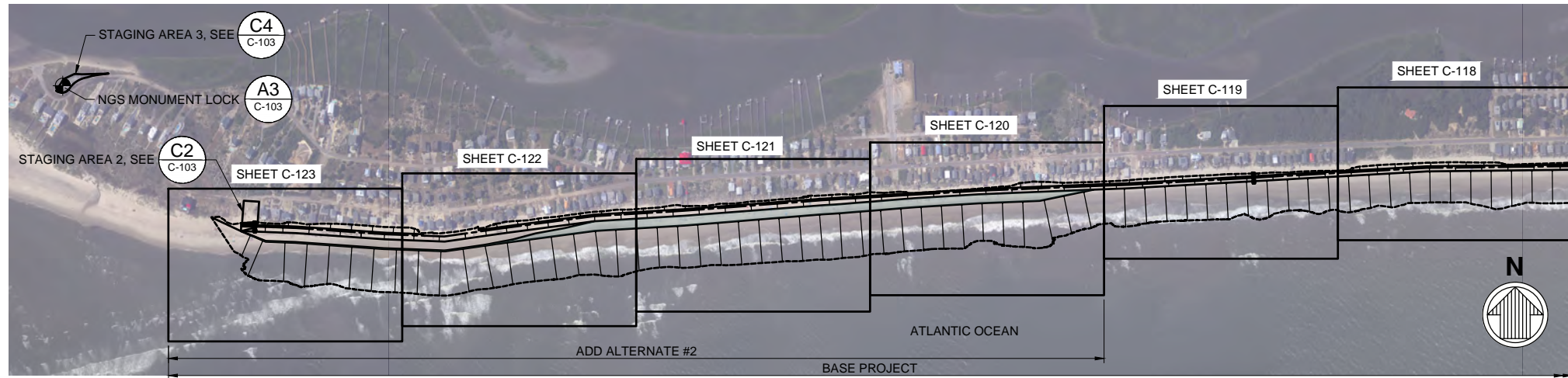
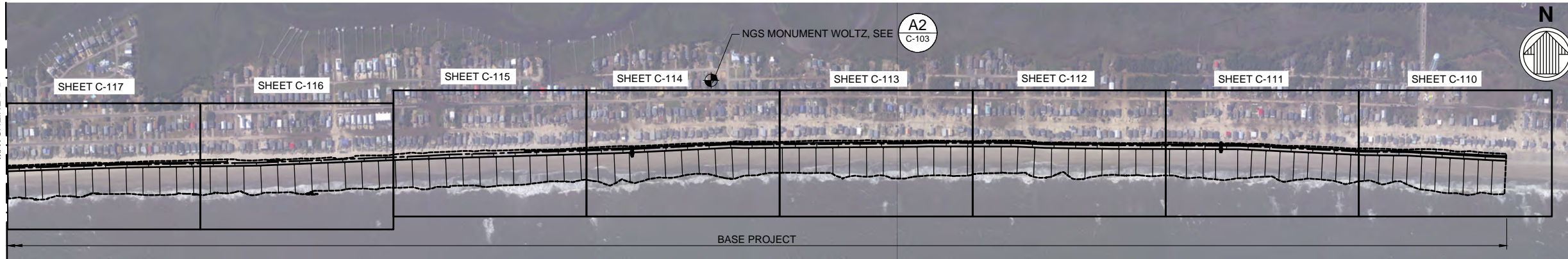
ABBREVIATIONS & LEGEND

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Date: 2022-02-11	MAN Project No: 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 10' (0 SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300
 RALEIGH, NC 27609
 NC FIRM NO. F-0105



Sheet Reference No.
G-003
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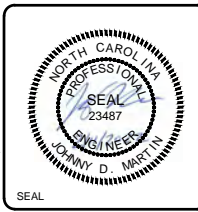
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0	2022-02-11	ISSUED FOR CONSTRUCTION	JDM

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

KEY PLAN

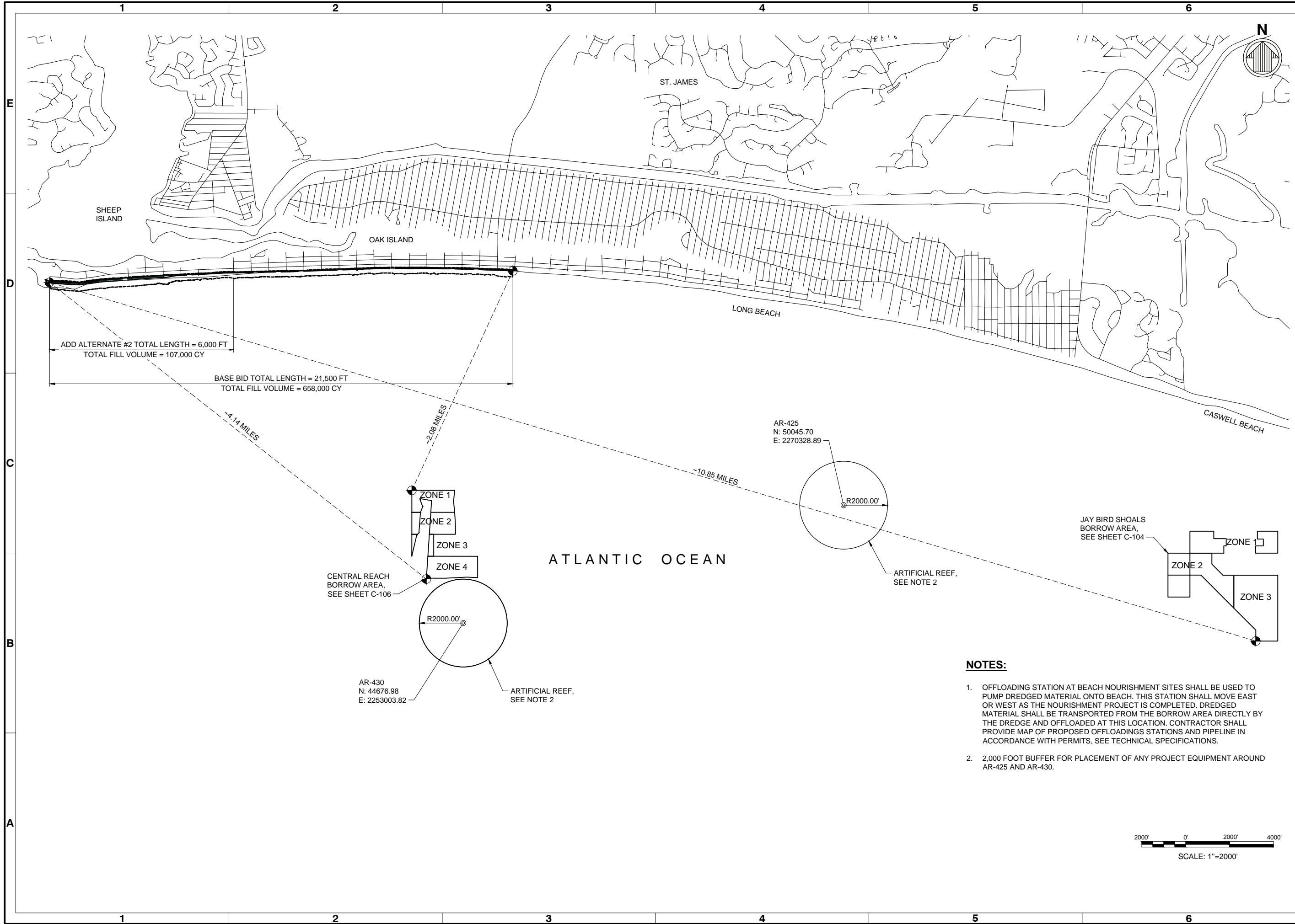
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Reviewed by:	JDM	Drawing code:		Submitted by:	MOPFATT & NICHOL
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4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



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Reference No.
G-004
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

PROJECT MAP

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
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RALEIGH, NC 27609
NC FIRM NO. F-0105

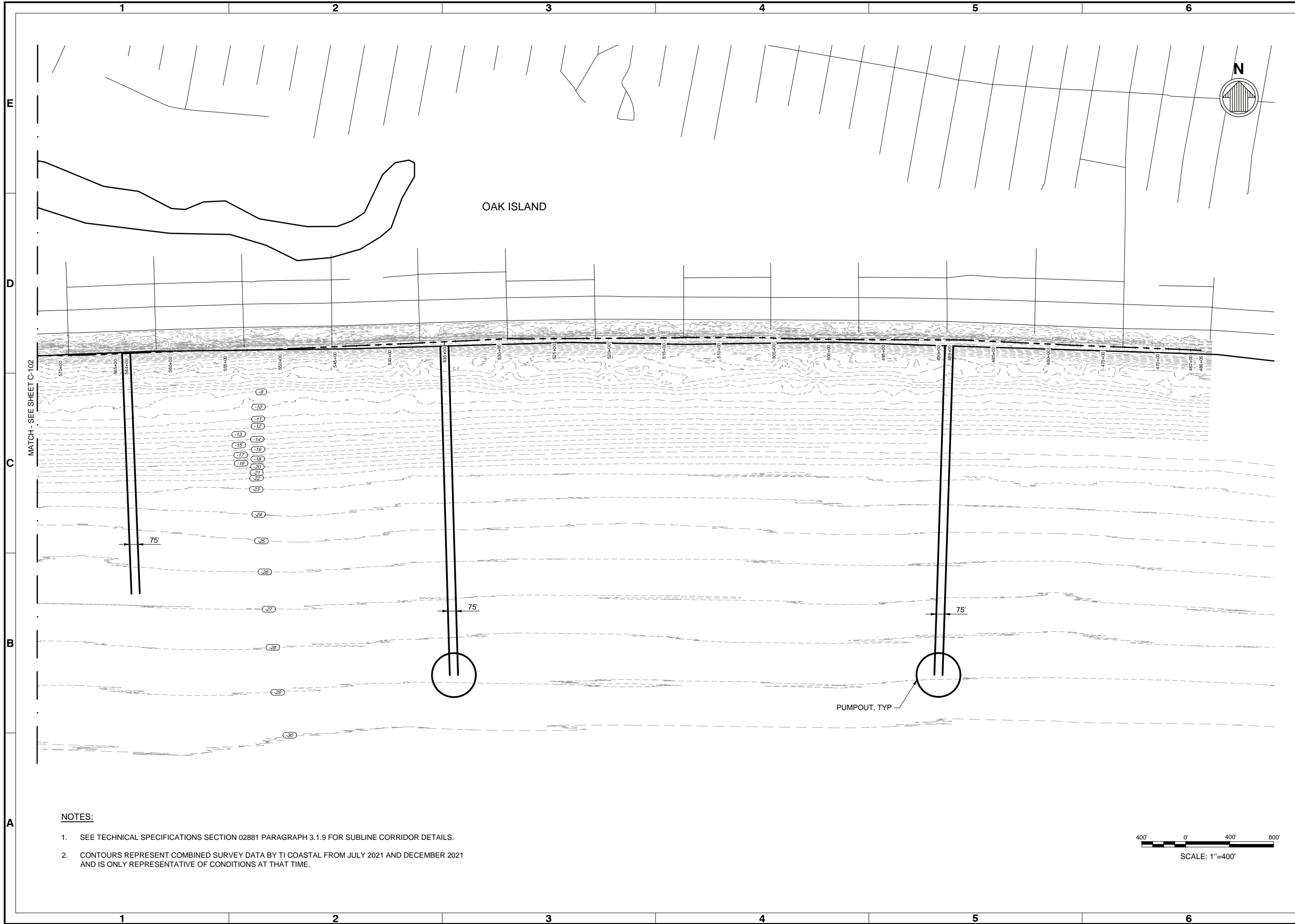


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C-100
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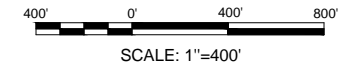
- OFFLOADING STATION AT BEACH NOURISHMENT SITES SHALL BE USED TO PUMP DREDGED MATERIAL ONTO BEACH. THIS STATION SHALL MOVE EAST OR WEST AS THE NOURISHMENT PROJECT IS COMPLETED. DREDGED MATERIAL SHALL BE TRANSPORTED FROM THE BORROW AREA DIRECTLY BY THE DREDGE AND OFFLOADED AT THIS LOCATION. CONTRACTOR SHALL PROVIDE MAP OF PROPOSED OFFLOADINGS STATIONS AND PIPELINE IN ACCORDANCE WITH PERMITS, SEE TECHNICAL SPECIFICATIONS.
- 2,000 FOOT BUFFER FOR PLACEMENT OF ANY PROJECT EQUIPMENT AROUND AR-425 AND AR-430.

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NOTES:

1. SEE TECHNICAL SPECIFICATIONS SECTION 02881 PARAGRAPH 3.1.9 FOR SUBLINE CORRIDOR DETAILS.
2. CONTOURS REPRESENT COMBINED SURVEY DATA BY TI COASTAL FROM JULY 2021 AND DECEMBER 2021 AND IS ONLY REPRESENTATIVE OF CONDITIONS AT THAT TIME.



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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

**PROPOSED SUBLINE CORRIDOR -
SHEET 1 OF 2**

Designed by: BPG	Date: 2022-02-11	Rev: 0
Drawn by: VNM	MAN Project No: 10128-04	
Reviewed by: JDM	Drawn by: NCV	
Submitted by: MOFFATT & NICHOL	Drawing code: AS NOTED	Per scale: 1" = 10' (0 SHEET)

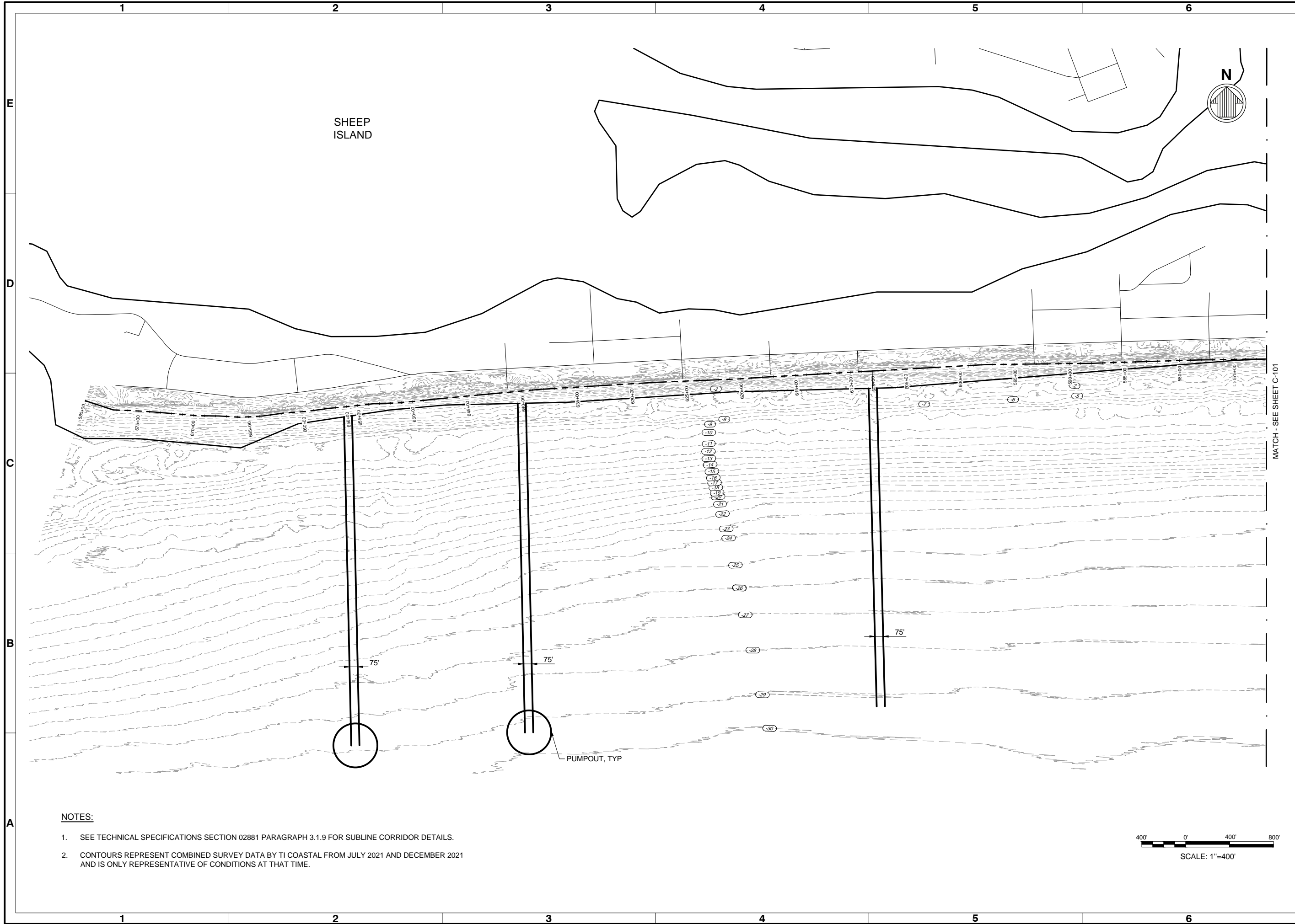
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RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
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C-101

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MATCH - SEE SHEET C-101

NOTES:

1. SEE TECHNICAL SPECIFICATIONS SECTION 02881 PARAGRAPH 3.1.9 FOR SUBLINE CORRIDOR DETAILS.
2. CONTOURS REPRESENT COMBINED SURVEY DATA BY TI COASTAL FROM JULY 2021 AND DECEMBER 2021 AND IS ONLY REPRESENTATIVE OF CONDITIONS AT THAT TIME.



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**PROPOSED SUBLINE
CORRIDOR - SHEET 2 OF 2**

Designed by: BPG	Date: 2022-02-11	Rev: 0
Drawn by: VNM	MAN Project No. 10128-04	
Reviewed by: JDM	Drawn by: NCV	
Submitted by: MORFATT & NICHOL	Drawing code: AS NOTED	
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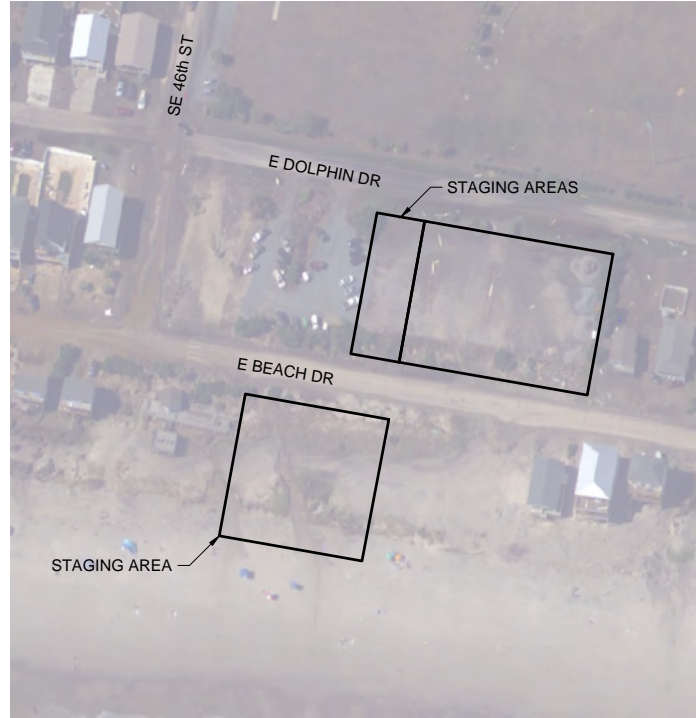
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NC FIRM NO. F-0105



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C1 STAGING AREA 1
G-004 NOT TO SCALE



C2 STAGING AREA 2
G-004 NOT TO SCALE

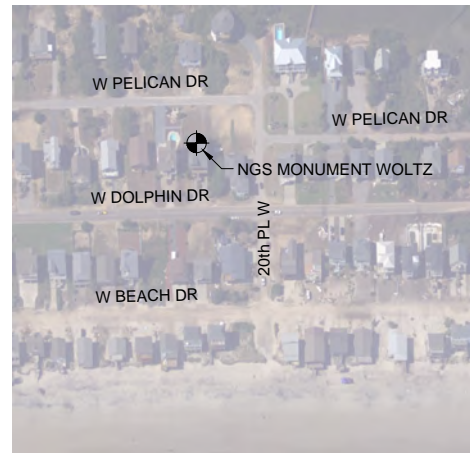


C4 STAGING AREA 3
G-004 NOT TO SCALE



MONUMENT	NORTHING	EASTING	ELEVATION
RED	60209.52	2271232.70	13.23

A1 SURVEY CONTROL 1
G-004 NOT TO SCALE



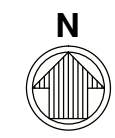
MONUMENT	NORTHING	EASTING	ELEVATION
WOLTZ	61377.64	2248806.84	34.45

A2 SURVEY CONTROL 2
G-004 NOT TO SCALE



MONUMENT	NORTHING	EASTING	ELEVATION
LOCK	61226.24	2232959.41	4.92

A3 SURVEY CONTROL 3
G-004 NOT TO SCALE

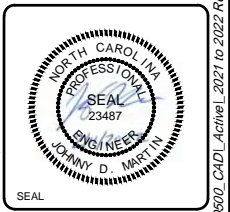


Rev.	Date	Description	Appr.
0	2022-02-11	ISSUED FOR CONSTRUCTION	JDM

OAK ISLAND RENOURISHMENT PROJECT 2021/2022
STAGING, ACCESS, AND SURVEY CONTROL

Designed by: BPG	Date: 2022-02-11	Rev: 0
Dwn by: VNM	M&N Project No: 10128-04	
Reviewed by: JDM	Dwng code:	
Submitted by: MOFFATT & NICHOL	Dwng Scale: AS NOTED	Per scale: 1" = 10' (0 SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-103
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Rev.	Date	Appr.
0	2022-02-11	JDM
ISSUED FOR CONSTRUCTION		
Description		

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

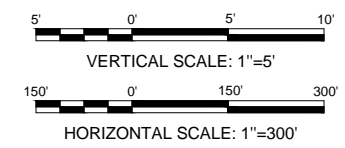
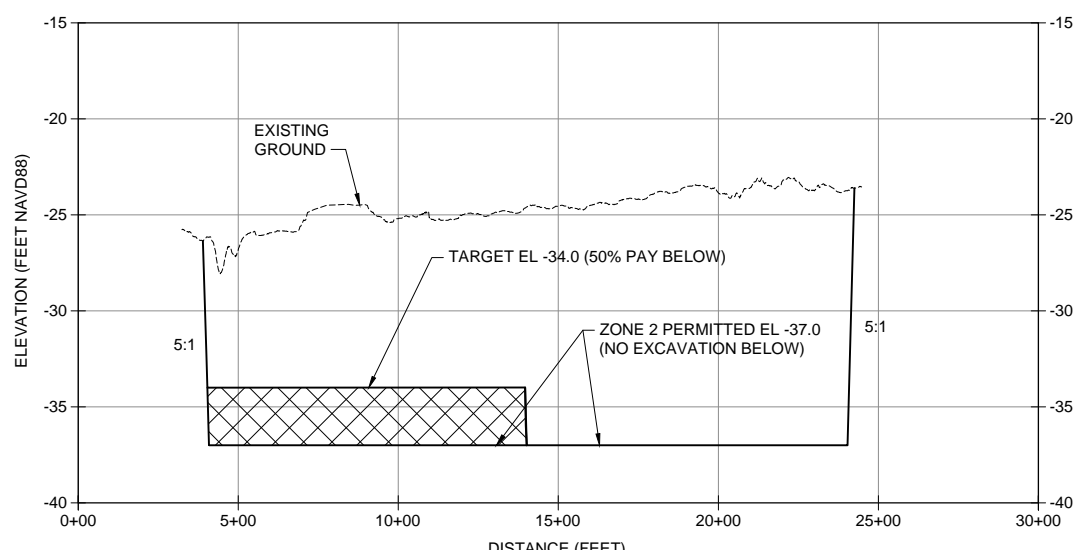
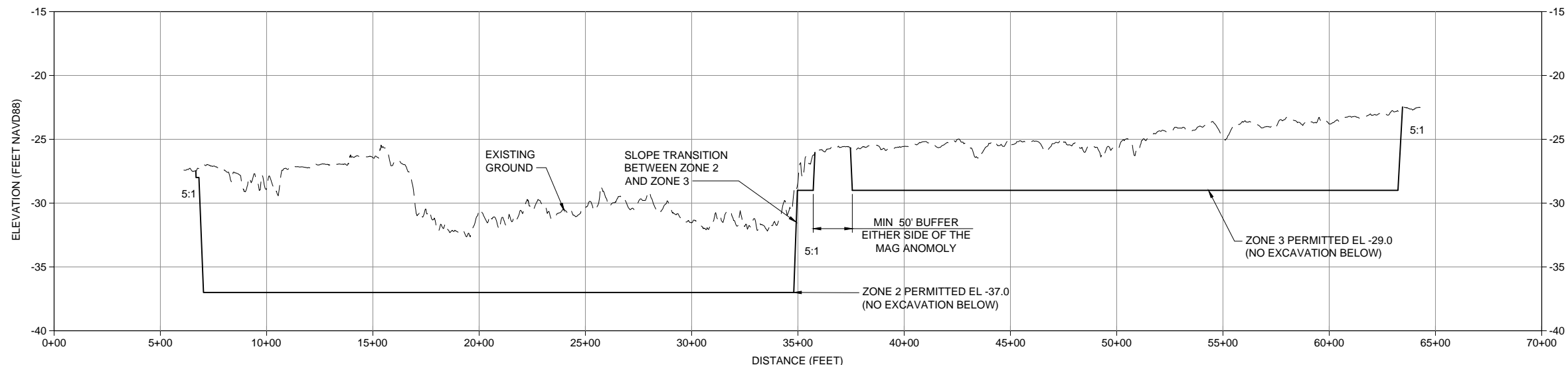
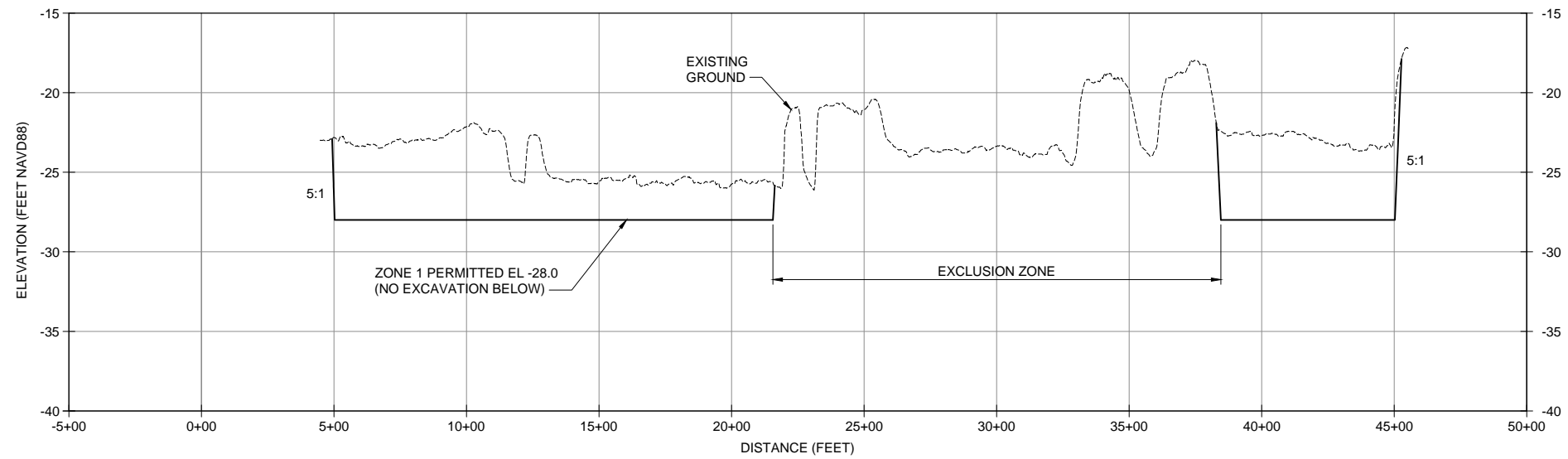
**JAY BIRD SHOALS BORROW
AREA CROSS SECTIONS**

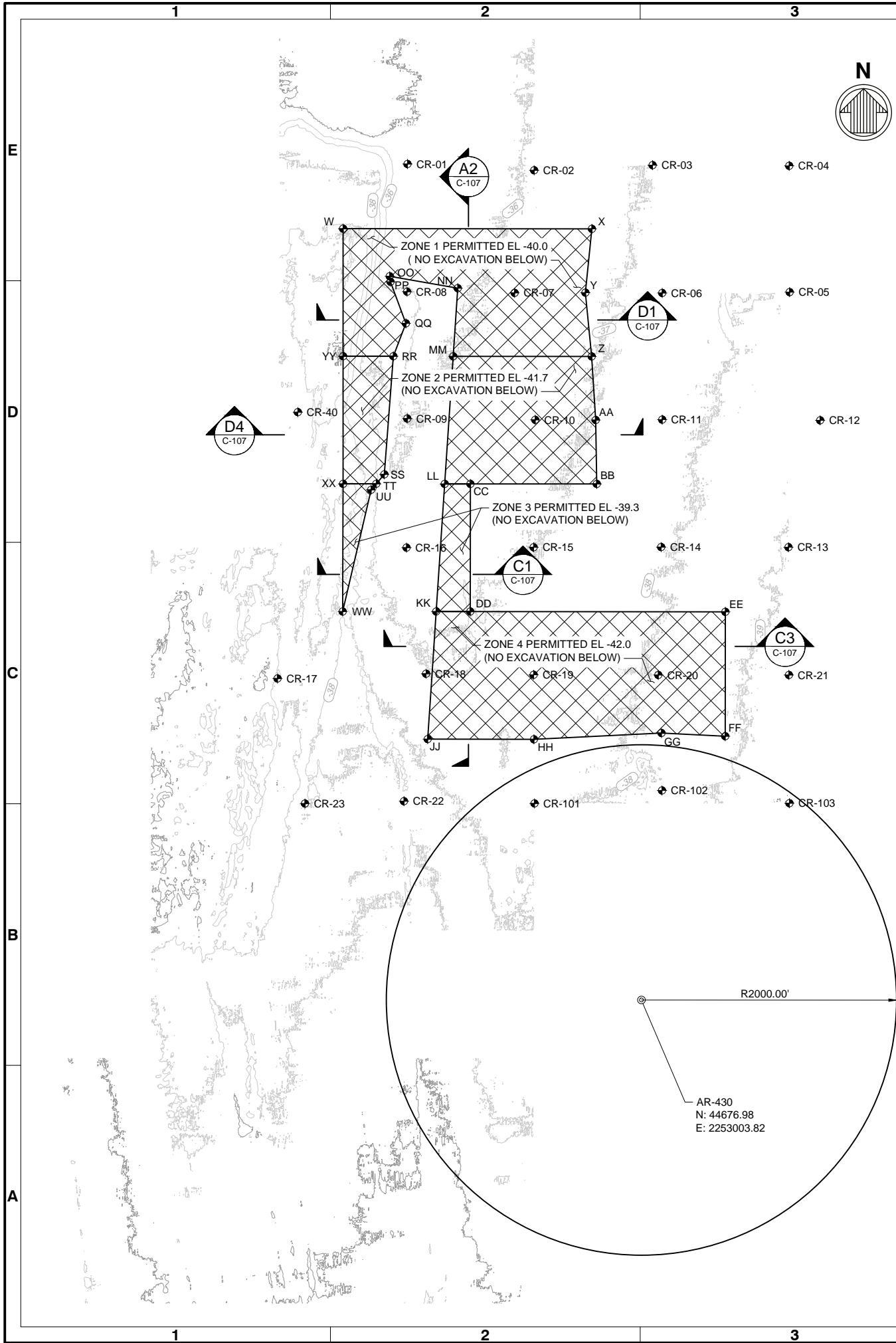
Designed by: BPG	Date: 2022-02-11	Rev: 0
Drawn by: VNM	MAN Project No. 10128-04	Per scale: 1" = 10' (0 SHEET)
Reviewed by: JDM	Drawn by: NCV	Drawing code:
Submitted by: MOFFATT & NICHOL	Per scale: AS NOTED	Per scale: 1" = 10' (0 SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-105
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POINT	NORTHING	EASTING
AA	49222.42	2252645.68
BB	48721.61	2252654.13
CC	48721.89	2251663.11
DD	47721.89	2251662.04
EE	47719.74	2253662.04
FF	46744.47	2253661.50
GG	46769.74	2253161.50
HH	46720.27	2252161.50
JJ	46722.06	2251328.69
KK	47722.10	2251395.28
LL	48722.10	2251461.86
MM	49721.82	2251528.43
NN	50256.22	2251564.01
OO	50349.30	2251031.10
PP	50306.30	2251036.60
QQ	49980.20	2251157.90
RR	49722.30	2251059.40
SS	48797.10	2250988.70
TT	48722.32	2250924.76
UU	48675.70	2250884.90
W	50722.96	2250665.26
WW	47721.71	2250661.99
X	50721.05	2252615.40
XX	48722.42	2250664.73
Y	50221.30	2252565.01
YY	49722.42	2250665.03
Z	49721.06	2252614.33

POINT	NORTHING	EASTING
CR-01	51229.06	2251170.00
CR-02	51179.73	2252163.03
CR-03	51220.27	2253091.56
CR-04	51215.33	2254162.65
CR-05	50224.73	2254166.45
CR-06	50218.14	2253167.27
CR-07	50219.36	2252009.67
CR-08	50228.70	2251166.70
CR-09	49234.44	2251168.41
CR-10	49224.62	2252171.30
CR-11	49225.69	2253167.01
CR-12	49220.35	2254405.64
CR-13	48225.79	2254157.00
CR-14	48227.10	2253158.70
CR-15	48225.39	2252158.91
CR-16	48222.52	2251162.17
CR-17	47196.78	2250150.64
CR-18	47234.38	2251315.62
CR-19	47226.26	2252158.67
CR-20	47224.75	2253136.76
CR-21	47224.88	2254160.38
CR-22	46235.02	2251142.30
CR-23	46217.04	2250365.73
CR-40	49284.32	2250310.40
CR-101	46218.09	2252165.59
CR-102	46319.29	2253165.62
CR-103	46219.72	2254164.81

ZONE	ACRES
ZONE 1	38.3
ZONE 2	34.4
ZONE 3	8.0
ZONE 4	51.8
TOTAL	132.5

LEGEND

- A PROPOSED BORROW AREA CONTROL POINT
- CR-# CENTRAL REACH VIBRACORES
- ☒ CENTRAL REACH BORROW AREA

NOTES

1. BATHYMETRY CONTOURS SHOWN IN FEET REFERENCED TO NAVD88 ARE BASED ON MULTIBEAM SURVEYS PERFORMED BY GEODYNAMICS IN JUNE 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEY.
2. BORROW AREA COORDINATES ARE NORTH CAROLINA STATE PLANE, NAD83 (FEET).
3. THE MEAN HIGH WATER ELEVATION AND MEAN LOW WATER ELEVATION SHOWN ON THE DREDGE SECTIONS ARE BASED ON NOAA TIDAL DATUM AT THE OAK ISLAND, ATLANTIC OCEAN, NC STATION #8659182.
4. OTHER CONTRACTORS MAY BE PRESENT IN AREAS WHERE DREDGING OF BEACH FILL MATERIALS IS TO OCCUR. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ACTIVITIES.
5. SEE TECHNICAL SPECIFICATIONS FOR DATA SUMMARY OF THE ARCHAEOLOGICAL REMOTE SENSING AND TARGET IDENTIFICATION STUDY. THE STUDY CONCLUDES THAT THE TARGETS CONSIST OF MODERN DEBRIS (WIRE ROPE, PIPE, ETC.)
6. FOR CENTRAL REACH BORROW AREA DREDGE SECTIONS, SEE SHEET C-107.
7. FOR CENTRAL REACH BORROW AREA VIBRACORE SUMMARY TABLE, SEE SHEET C-108.



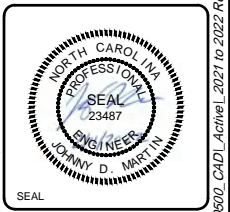
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

OAK ISLAND RENOURISHMENT PROJECT 2021/2022

CENTRAL REACH BORROW AREA

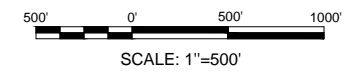
Designed by: BPG	Drawn by: VNM	Checked by: NCV	Reviewed by: JDM	Submitted by: MOFFATT & NICHOL
Date: SEPT. 28, 2021	M&N Project No.: 10128-04	Drawing code:	Per scale: 1" = 10' (10 SHEET)	

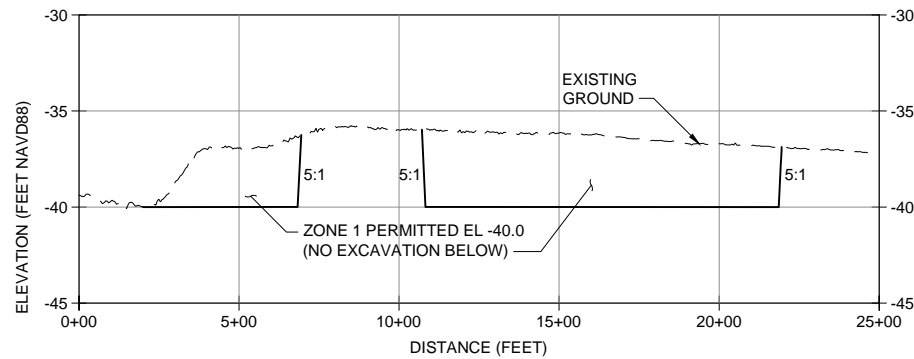
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 NC FIRM NO. F-0105



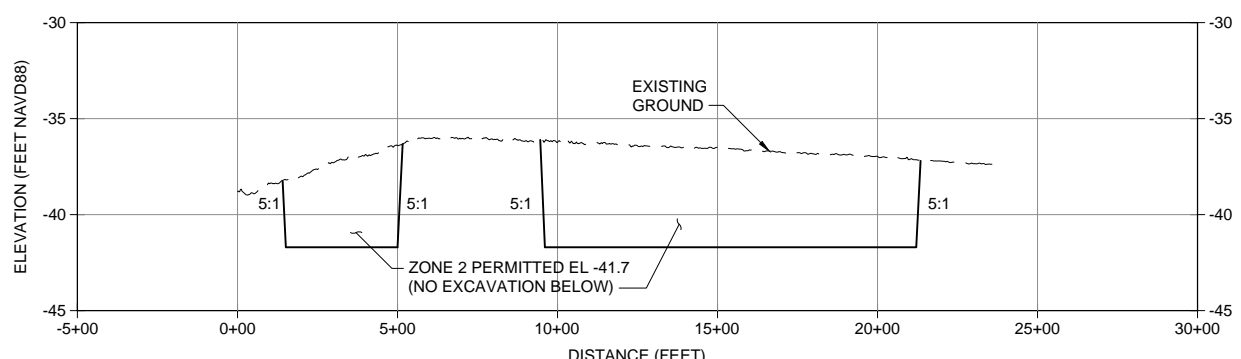
Sheet Reference No. **C-106**

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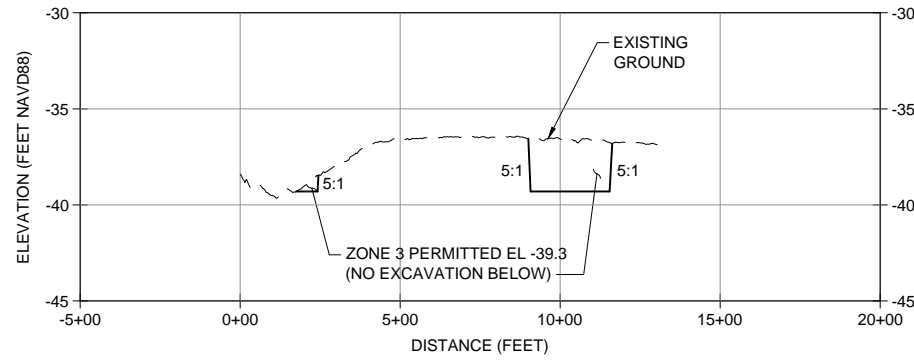




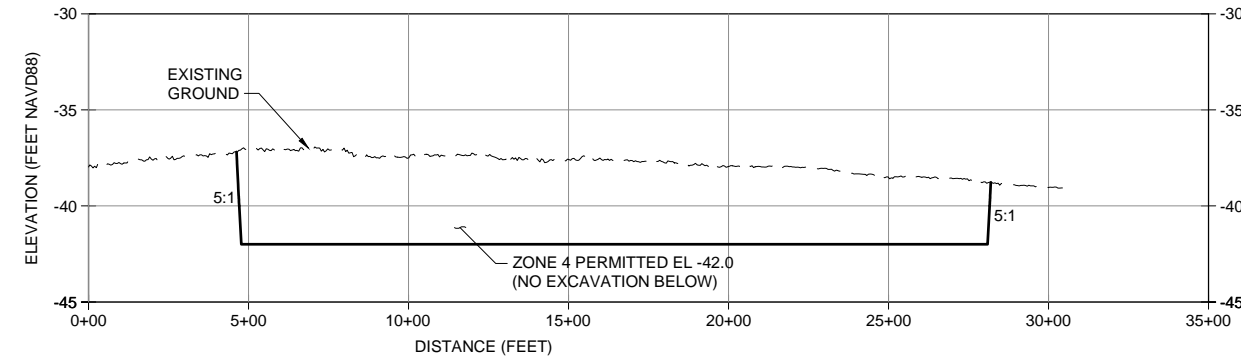
D1 SECTION
C-106 SCALE: AS NOTED



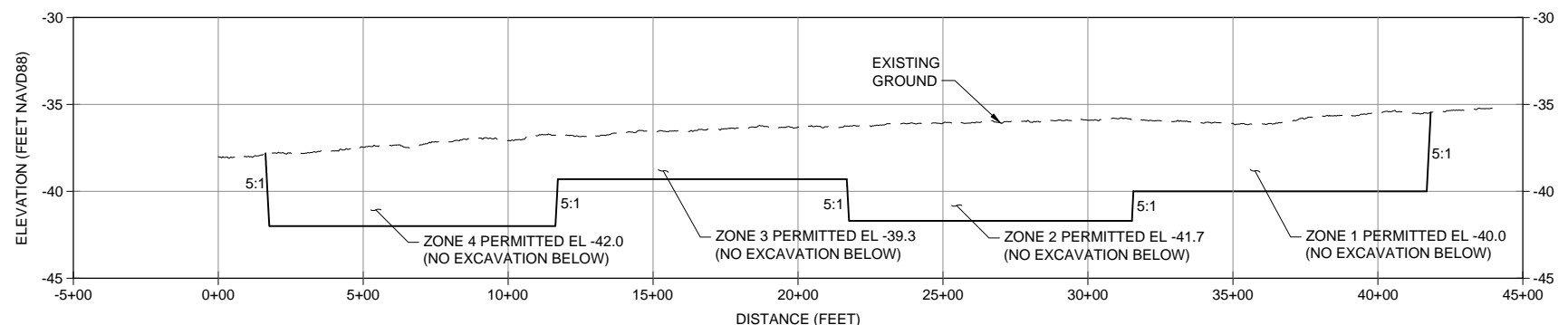
D4 SECTION
C-106 SCALE: AS NOTED



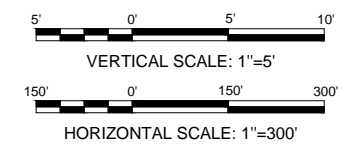
C1 SECTION
C-106 SCALE: AS NOTED



C3 SECTION
C-106 SCALE: AS NOTED



A2 SECTION
C-106 SCALE: AS NOTED

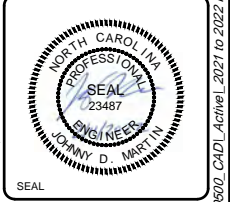


Rev.	Date	Description	Drawn	Appr.
0	2022-02-11	ISSUED FOR CONSTRUCTION	JDM	

OAK ISLAND RENOURISHMENT PROJECT 2021/2022
CENTRAL REACH BORROW AREA CROSS SECTIONS

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 10' (SHEET)						

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 NC FIRM NO. F-0106



Sheet Reference No. **C-107**
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File: Q:\RAI\10128-04\0600_CAD\Active_2021 to 2022 Renourishment Project\1012807-C-107 - Platexr_2/11/2022 4:48 PM by MORGAN_NEKOL; Saved: 1/27/2022 9:08 AM by NMORGAN

OAK ISLAND SEDIMENT COMPATABILITY

Sediment Compatibility	2019 Native Global	Central Reach Composite	Jay Bird Shoals Composite	NCAC Maximum
Gravel	0.45%	3.39%	1.58%	≤ 6%
Granular	0.71%	4.82%	3.58%	≤ 11%
Sand	96.96%	86.70%	90.25%	-
Fines	1.88%	5.09%	4.59%	≤ 7%
Carbonate	9.72%	16.45%	13.93%	≤ 25%
Median (mm)	0.26	0.21	0.27	-
Mean (mm)	0.27	0.31	0.34	-

Vibracore	Sample Number	Sample Depth (ft)	Survey Elev (ft, NAVD88)	Permitted Dredge Elevation (ft, NAVD88)	Gravel (%)	Granular (%)	Sand (%)	<#230 (%)	Carbonate (%)	Mean (mm)	Mean (phi)	Munsell Color			
												Wet	Bleached		
												Zone 1	Zone 2	Zone 3	
JB-20	1	0	-4	-22.5	-26.5	-28.0	2.64	5.78	85.19	6.39	18.20	0.34	1.56	10YR-4/1	10YR-5/2
	2	4	-15	-26.5	-37.9	0.00	0.72	97.74	1.54	7.70	0.26	1.94	10YR-7/1	NA	
	1	0	-5	-21.6	-26.1	0.81	1.71	94.56	2.92	19.30	0.31	1.69	10YR-3/1	10YR-5/1	
	2	5	-6	-26.1	-27.5	3.04	4.80	84.41	7.75	19.30	0.43	1.22	10YR-4/1	10YR-5/1	
	3	6	-11	-27.5	-32.6	0.13	0.57	94.09	5.21	8.00	0.28	1.84	10YR-5/1	NA	
	1	0	-3	-19.2	-22.2	0.13	1.03	92.87	5.97	6.50	0.23	2.12	10YR-5/1	10YR-7/1	
	2	3	-5	-22.2	-24.2	3.58	5.52	86.96	3.94	18.80	0.39	1.36	10YR-4/1	10YR-6/1	
	3	5	-6	-24.2	-25.2	2.63	5.13	84.45	7.79	18.80	0.41	1.29	10YR-4/1	10YR-6/2	
	4	6	-13	-25.2	-32.2	0.54	1.66	94.79	3.01	7.70	0.34	1.56	10YR-5/1	10YR-6/1	
	1	0	-7	-17.7	-24.2	0.00	0.19	98.52	1.29	6.20	0.25	2.00	10YR-6/2	10YR-7/1	
	2	7	-8	-24.2	-26.0	0.60	2.55	91.05	5.80	13.80	0.26	1.94	10YR-4/1	10YR-6/1	
	3	8	-17	-26.0	-34.3	0.33	1.70	94.96	3.01	20.60	0.33	1.60	10YR-6/1	NA	
JB-01	1	0	-1	-24.2	-25.1	2.18	1.99	92.25	3.58	6.80	0.34	1.56	10YR-5/1	10YR-6/2	
	2	1	-3	-25.1	-27.5	3.20	6.66	80.27	9.87	6.80	0.45	1.15	10YR-3/1	10YR-5/2	
	3	3	-6	-27.5	-30.2	3.94	5.72	86.20	4.14	6.80	0.40	1.32	10YR-3/1	10YR-6/2	
	4	6	-17	-30.2	-41.2	0.03	0.34	97.21	2.42	20.80	0.27	1.89	10YR-7/1	10YR-7/1	
JB-06	1	0	-2	-23.6	-25.3	2.48	5.24	86.14	6.14	13.80	0.33	1.60	10YR-4/1	10YR-6/1	
	2	2	-2	-25.3	-25.7	6.87	9.49	80.50	3.14	13.80	0.64	0.64	10YR-6/1	10YR-6/1	
	3	2	-10	-25.7	-33.6	0.17	1.87	91.05	6.91	13.20	0.26	1.94	10YR-4/1	10YR-7/1	
	4	10	-16	-33.6	-39.6	4.86	4.28	85.84	5.02	13.20	0.63	0.67	10YR-6/1	NA	
JB-17	1	0	-1	-27.1	-28.4	0.47	5.60	86.92	7.01	14.70	0.37	1.43	10YR-4/1	10YR-6/1	
	2	1	-12	-28.4	-38.7	0.82	1.15	93.95	4.08	11.00	0.27	1.89	10YR-7/1	10YR-6/1	
JB-18	1	0	-1	-25.7	-26.2	3.98	14.80	75.22	6.00	21.20	0.66	0.60	10YR-4/1	10YR-6/1	
	2	1	-6	-26.2	-31.7	1.63	7.85	86.06	4.46	21.20	0.35	1.51	10YR-7/1	10YR-6/1	
	3	6	-11	-31.7	-36.7	0.39	1.82	93.88	3.91	27.30	0.33	1.60	10YR-3/1	10YR-5/1	
	4	11	-17	-36.7	-42.3	2.37	7.17	88.10	2.36	27.30	0.66	0.60	10YR-6/1	NA	
JB-07	1	0	-2	-21.0	-23.0	0.67	2.69	91.64	5.00	9.30	0.26	1.94	10YR-6/1	10YR-5/2	
	2	2	-5	-23.0	-26.0	3.74	7.67	82.56	6.03	9.30	0.40	1.32	10YR-5/1	10YR-6/1	
	3	5	-8	-26.0	-29.0	3.51	7.68	81.03	7.78	11.80	0.45	1.15	10YR-5/1	10YR-6/1	
JB-08	1	0	-3	-17.5	-20.0	0.17	0.61	94.04	5.18	9.60	0.18	2.47	10YR-7/1	10YR-6/1	
	2	3	-5	-20.0	-22.5	0.71	1.94	95.21	2.14	9.60	0.32	1.64	10YR-7/1	10YR-7/1	
	3	5	-6	-22.5	-23.5	4.55	6.91	82.26	6.28	10.50	0.56	0.84	10YR-7/1	10YR-5/1	
	4	6	-16	-23.5	-33.5	0.33	5.01	90.79	3.87	10.50	0.39	1.36	10YR-5/1	NA	
JB-11A	1	0	-2	-22.3	-24.3	4.74	3.26	85.71	6.29	18.50	0.24	2.06	10YR-3/1	10YR-7/1	
	2	2	-7	-24.3	-28.8	2.24	8.46	85.57	3.73	18.50	0.43	1.22	10YR-6/1	10YR-6/1	
	3	7	-8	-28.8	-29.8	0.80	5.44	87.05	6.71	16.10	0.40	1.32	10YR-5/1	NA	
JB-12	1	0	-2	-18.8	-20.4	0.15	0.69	97.60	1.58	5.90	0.33	1.60	10YR-6/1	10YR-7/1	
	2	2	-7	-20.4	-25.8	0.65	2.67	92.11	4.57	5.90	0.25	2.00	10YR-6/1	10YR-6/1	
	3	7	-16	-25.8	-34.8	3.19	5.38	85.72	5.73	18.80	0.35	1.51	10YR-5/1	10YR-6/1	
JB-13	1	0	-2	-20.9	-22.4	0.95	2.58	94.42	2.05	10.00	0.33	1.60	10YR-7/1	10YR-7/1	
	2	2	-3	-22.4	-24.0	0.11	1.05	92.08	6.76	10.00	0.19	2.40	10YR-5/1	10YR-7/1	
	3	3	-4	-24.0	-25.3	5.90	11.41	76.31	6.38	21.10	0.58	0.79	10YR-5/1	10YR-6/1	
	4	4	-11	-25.3	-31.4	5.53	5.48	84.25	4.74	21.10	0.48	1.06	10YR-5/1	10YR-6/1	
Weighted Average					1.58	3.58	90.25	4.59	13.93	0.34	1.56	NA	NA		

NOTE: WEIGHTED AVERAGE FOR JAY BIRD SHOALS IS CALCULATED BASED ON SAMPLE HEIGHTS DOWN TO PERMITTED DREDGE ELEVATION.

JAYBIRD SHOALS BORROW AREA

Vibracore	Sample Number	Sample Depth (ft)	Survey Elev (ft, NAVD88)	Permitted Dredge Elevation	Gravel (%)	Granular (%)	Sand (%)	<#230 (%)	Carbonate (%)	Mean (mm)	Mean (phi)	Munsell Color			
												Wet	Bleached		
												Zone 1	Zone 2	Zone 3	Zone 4
Central-07	1	0.0	-7.1	-36.3	-43.4	-40.0	1.92	3.25	89.31	5.52	14.00	0.24	2.06	10YR-3/1	10YR-5/1
	2	2.0	-4.0	-38.1	-40.1	-40.0	3.80	2.38	90.03	3.79	4.30	0.26	1.94	10YR-3/1	10YR-6/1
Central-08	1	0.0	-2.0	-36.0	-38.0	-41.7	0.89	2.07	90.86	6.18	6.20	0.24	2.06	10YR-3/1	10YR-5/1
	2	2.0	-3.0	-38.0	-39.0	-41.7	8.58	10.21	75.99	5.22	11.60	0.48	1.06	10YR-3/1	10YR-5/1
Central-09	3	3.0	-3.7	-39.0	-39.7	-41.7	1.00	10.88	83.97	4.15	10.50	0.46	1.12	10YR-3/1	10YR-5/1
	4	3.7	-5.7	-39.7	-41.7	-41.7	4.58	11.80	79.33	4.49	37.50	0.57	0.81	10YR-3/1	10YR-6/1
Central-10	1	0.0	-1.5	-36.6	-38.1	-41.7	1.87	3.20	89.90	5.03	8.10	0.24	2.04	10YR-3/1	10YR-6/1
	2	1.5	-4.0	-38.1	-40.6	-41.7	5.34	6.07	83.99	4.60	10.20	0.38	1.40	10YR-3/1	10YR-6/1
	3	4.0	-4.8	-40.6	-41.4	-41.7	0.72	2.58	93.39	3.31	6.40	0.40	1.32	10YR-3/1	NA
	4	4.8	-9.2	-41.4	-45.8	-45.8	5.73	10.03	79.08	5.16	35.60	0.56	0.84	10YR-3/1	NA
Central-16	1	0.0	-0.7	-36.5	-37.2	-38.3	4.53	3.15	90.64	1.68	18.70	0.32	1.64	10YR-3/1	10YR-6/1
	2	0.7	-1.5	-37.2	-38.0	-38.3	1.39	3.17	90.68	4.76	18.70	0.24	2.06	10YR-3/1	10YR-6/1
	3	1.5	-2.9	-38.0	-39.4	-39.4	6.25	6.83	82.65	4.27	31.80	0.37	1.43	10YR-3/1	10YR-6/1
Central-18	1	0.0	-1.0	-37.1	-38.1	-42	1.69	3.74	92.92	1.65	20.70	0.45	1.15	10YR-5/2	10YR-6/1
	2	1.0	-2.0	-38.1	-39.1	-42	4.88	3.84	86.63	4.65	20.70	0.26	1.94	10YR-4/1	10YR-5/1
	3	2.0	-4.6	-39.1	-41.7	-42	1.71	4.34	87.39	6.56	18.60	0.28	1.84	10YR-4/1	10YR-6/1
	4	4.8	-7.2	-41.9	-44.3	-44.3	6.67	6.93	83.32	3.08	19.50	0.53	0.92	10YR-4/1	10YR-5/1
Central-19	1	0.0	-2.0	-37.6	-39.6	-42	6.04	4.13	86.87	2.96	12.60	0.29	1.79	10YR-4/1	10YR-6/1
	2	2.0	-4.4	-39.6	-42.0	-42	2.82	6.44	86.14	4.60	31.40	0.27	1.89	10YR-3/1	10YR-5/1
Central-20	1	0.0	-4.0	-38.1	-42.1	-42	3.66	2.81	86.66	6.87	14.40	0.24	2.06	10YR-3/1	10YR-5/1
Weighted Average					3.39	4.82	86.70	5.09	16.45	0.31	1.68	NA	NA		

NOTE: WEIGHTED AVERAGE FOR CENTRAL REACH IS CALCULATED BASED ON SAMPLE HEIGHTS DOWN TO PERMITTED DREDGE ELEVATION.

CENTRAL REACH BORROW AREA

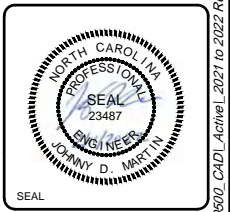


Rev	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

OAK ISLAND RENOURISHMENT PROJECT 2021/2022 BORROW AREA VIBRACORE SUMMARY TABLE

Designed by: BPG	Drawn by: VNM	Checked by: NCV	Reviewed by: JDM	Submitted by: MOFFATT & NICHOL
Date: 2022-02-11	MAN Project No: 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 10' (SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 NC FIRM NO. F-0105





- NOTES:**
1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 2. SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 5. 100' TRANSITION TO TIE INTO EXISTING PROFILE AT STATION 465+00.



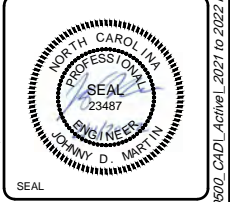
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 1 OF 14

Designed by:	BPG	Date:	2022-02-11	Rev:	0
Dwn by:	VNM	MAN Project No.:	10128-04	Drawing code:	
Reviewed by:	JDM	Drawing Scale:	AS NOTED	Per scale:	1" = 60' (0 SHEET)
Submitted by:	MORFATT & NICHOL				

4700 FALLS OF THE NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-110
INDEX: 14 OF 45

File: Q:\RAI\10128-04\0600_CAD\Active_2021 to 2022 Renourishment Project\1012804-C-110 - Platred_21112022 4:50 PM by: MORGAN_NEKOL; Saved: 1/27/2022 5:52 PM by: MMORGAN



- NOTES:**
1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 2. SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.



Rev	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 2 OF 14

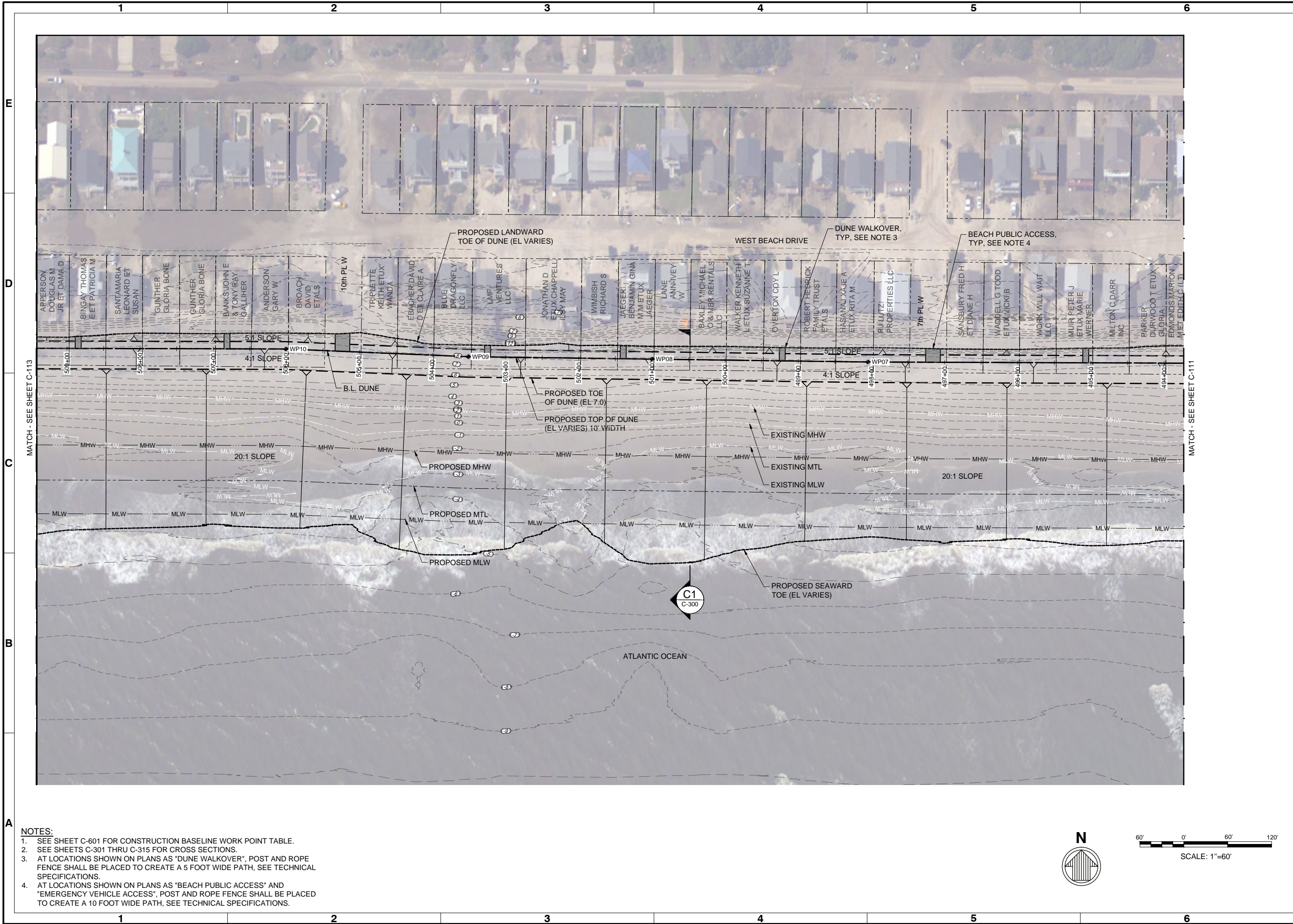
Designed by: BPG	Drawn by: VNM	Checked by: NCV	Reviewed by: JDM	Submitted by: MOFFATT & NICHOIL
Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 60' (SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105

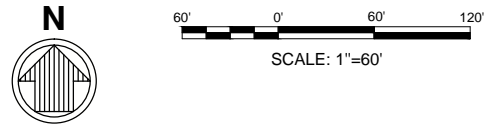


Sheet Reference No.
C-111
INDEX: 15 OF 45

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- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.



Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

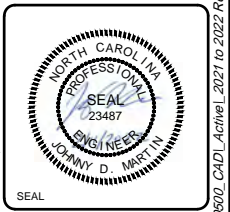
**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 3 OF 14

Designed by: BPG	Drawn by: VNM	Checked by: NCV	Reviewed by: JDM	Submitted by: MOFFATT & NICHOL
Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Per scale: 1" = 60' (10 SHEET)	Draining Scale: AS NOTED

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105

moffatt & nichol



Sheet Reference No.
C-112

INDEX: 16 OF 45

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- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.



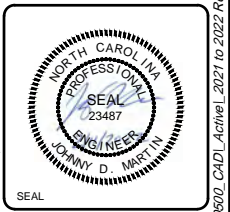
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 4 OF 14

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 60' (10 SHEETS)						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.	C-113
INDEX:	17 OF 45

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Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 5 OF 14

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 60'						

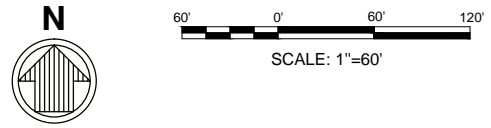
4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



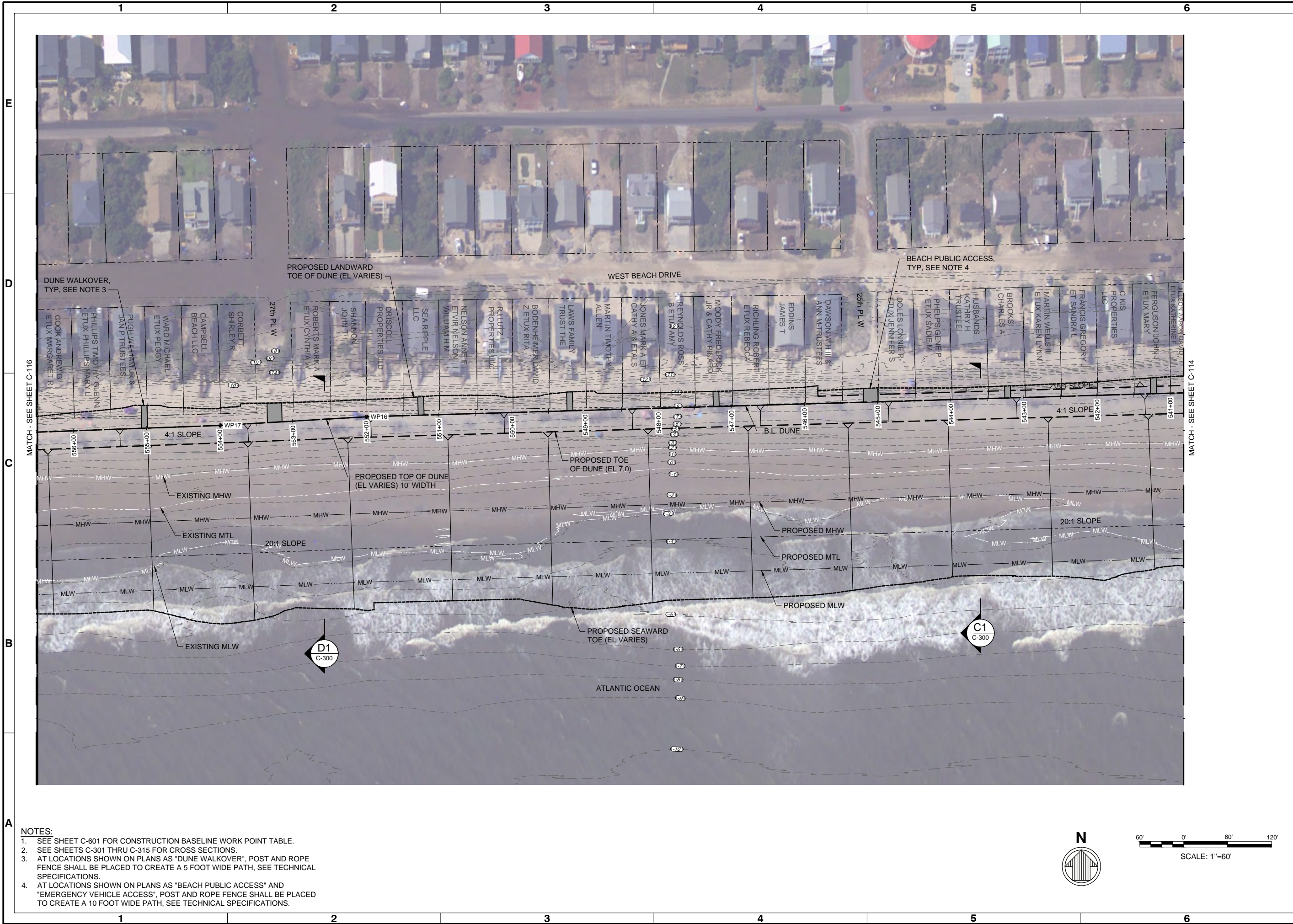
Sheet Reference No.
C-114
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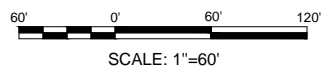
- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.



File: O:\RAI\10128-04\0600_CAD_Active_2021 to 2022 Renourishment Project\1012804-C-114 - Platred_21112022 4:52 PM by MORGAN_NEKOL; Saved: 1/28/2022 10:36 AM by MMORGAN



- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.



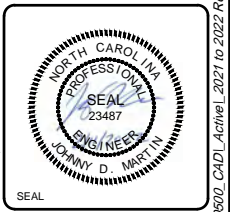
Rev.	Date	Description	Drawn
0	2022-02-11	ISSUED FOR CONSTRUCTION	JDM

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 6 OF 14

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 60'						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-115
INDEX: 19 OF 45

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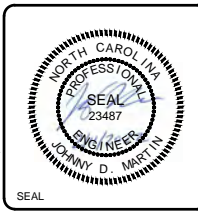
Rev.	Date	Description	Appr.
0	2022-02-11	ISSUED FOR CONSTRUCTION	JDM

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 8 OF 14

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 60'						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-117
INDEX: 21 OF 45



- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.



- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.



Rev	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

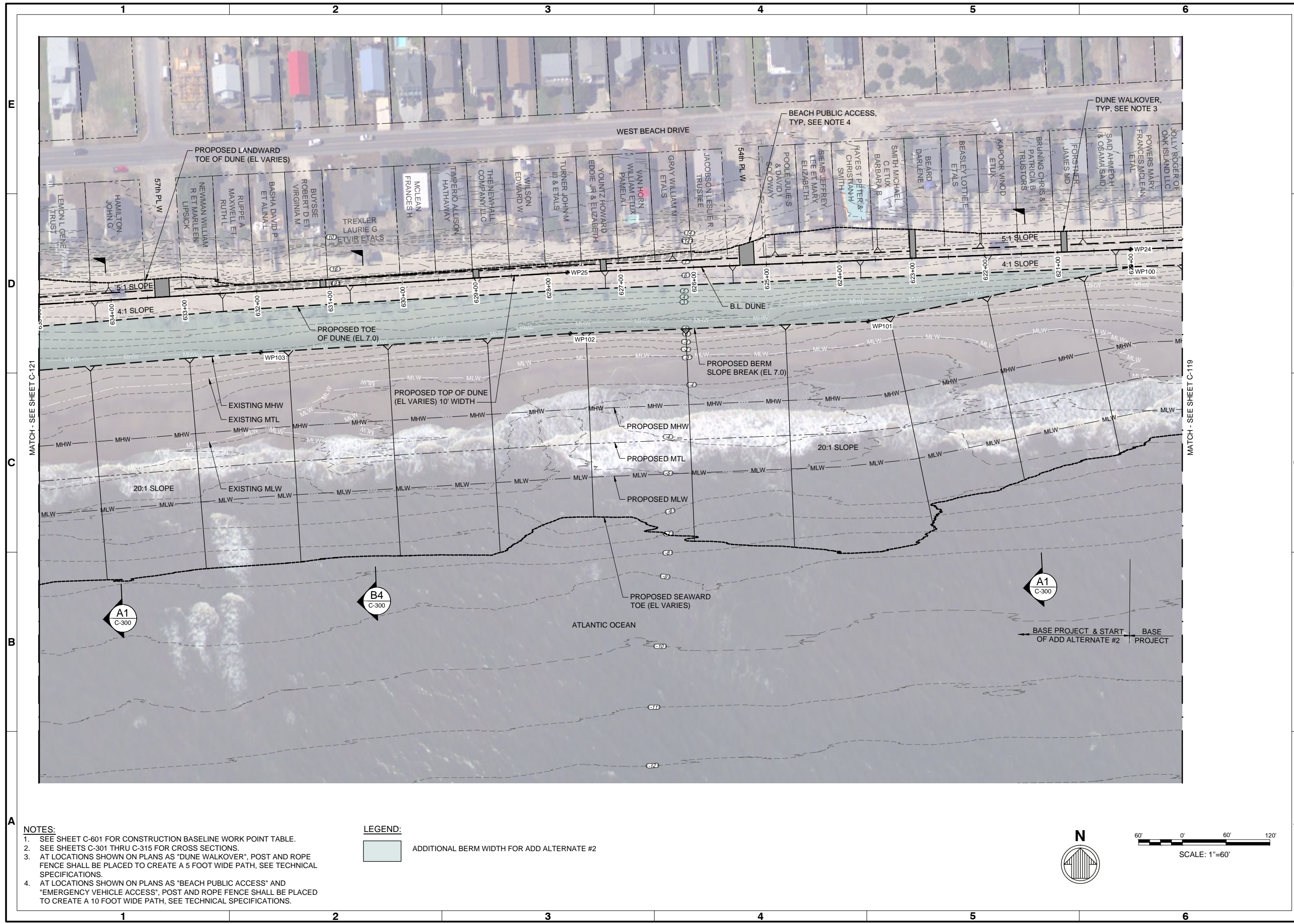
SITE PLAN 10 OF 14

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOLOTT
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Per scale:	1" = 60' (10 SHEETS)

4700 FALLS OF THE NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



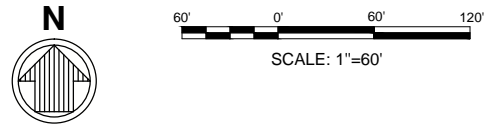
Sheet Reference No.
C-119
INDEX: 23 OF 45



- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.

LEGEND:

ADDITIONAL BERM WIDTH FOR ADD ALTERNATE #2



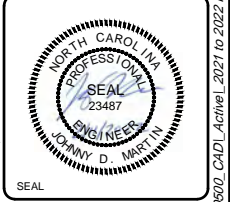
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 11 OF 14

Designed by: BPG	Drawn by: VNM	Reviewed by: JDM	Submitted by: MOPFATT & NICHOL
Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Per scale: 1" = 60' (10 SHEETS)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-120
INDEX: 24 OF 45



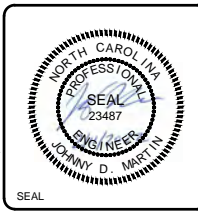
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 12 OF 14

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 60'						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.	C-121
INDEX:	25 OF 45



- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.

LEGEND:

	ADDITIONAL BERM WIDTH FOR ADD ALTERNATE #2
--	--

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- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.

LEGEND:

ADDITIONAL BERM WIDTH FOR ADD ALTERNATE #2



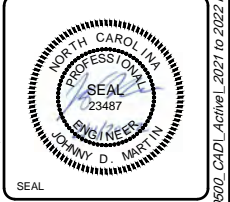
Rev.	Date	Description	Appr.
0	2022-02-11	ISSUED FOR CONSTRUCTION	JDM

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 13 OF 14

Designed by: BPG	Drawn by: VNM	Checked by: NCV	Reviewed by: JDM	Submitted by: MOFFATT & NICHOL
Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 60' (10 SHEETS)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-122
INDEX: 26 OF 45

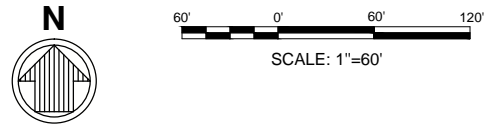
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- NOTES:**
- SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
 - SEE SHEETS C-301 THRU C-315 FOR CROSS SECTIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 5 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.
 - AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS" AND "EMERGENCY VEHICLE ACCESS", POST AND ROPE FENCE SHALL BE PLACED TO CREATE A 10 FOOT WIDE PATH, SEE TECHNICAL SPECIFICATIONS.

LEGEND:

ADDITIONAL BERM WIDTH FOR ADD ALTERNATE #2



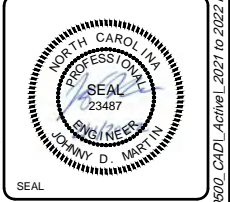
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

SITE PLAN 14 OF 14

Designed by: BPG	Drawn by: VNM	Reviewed by: JDM	Submitted by: MOFFATT & NICHOL
Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED
Per scale: 1"=60' (10 SHEETS)			

4700 FALLS OF THE NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-123
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0	ISSUED FOR CONSTRUCTION	JDM	2022-02-11
Mark	Description	Date	Appr.

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

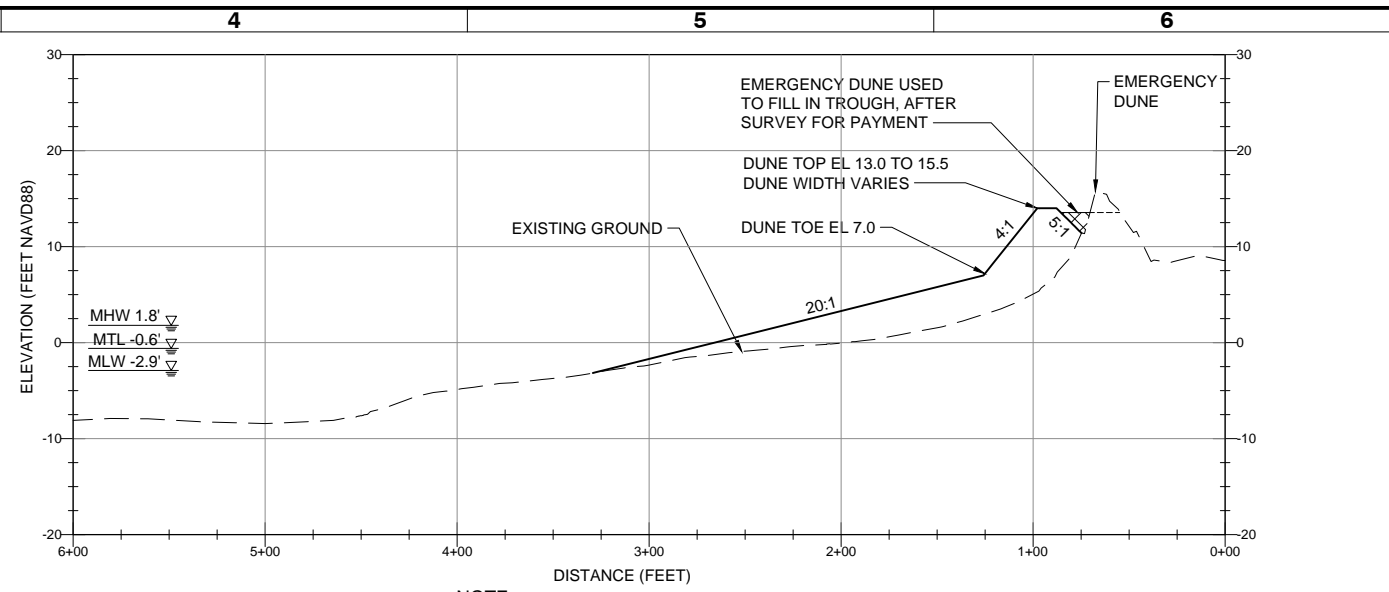
**TYPICAL CROSS
SECTIONS**

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 10' (0 SHEET)						

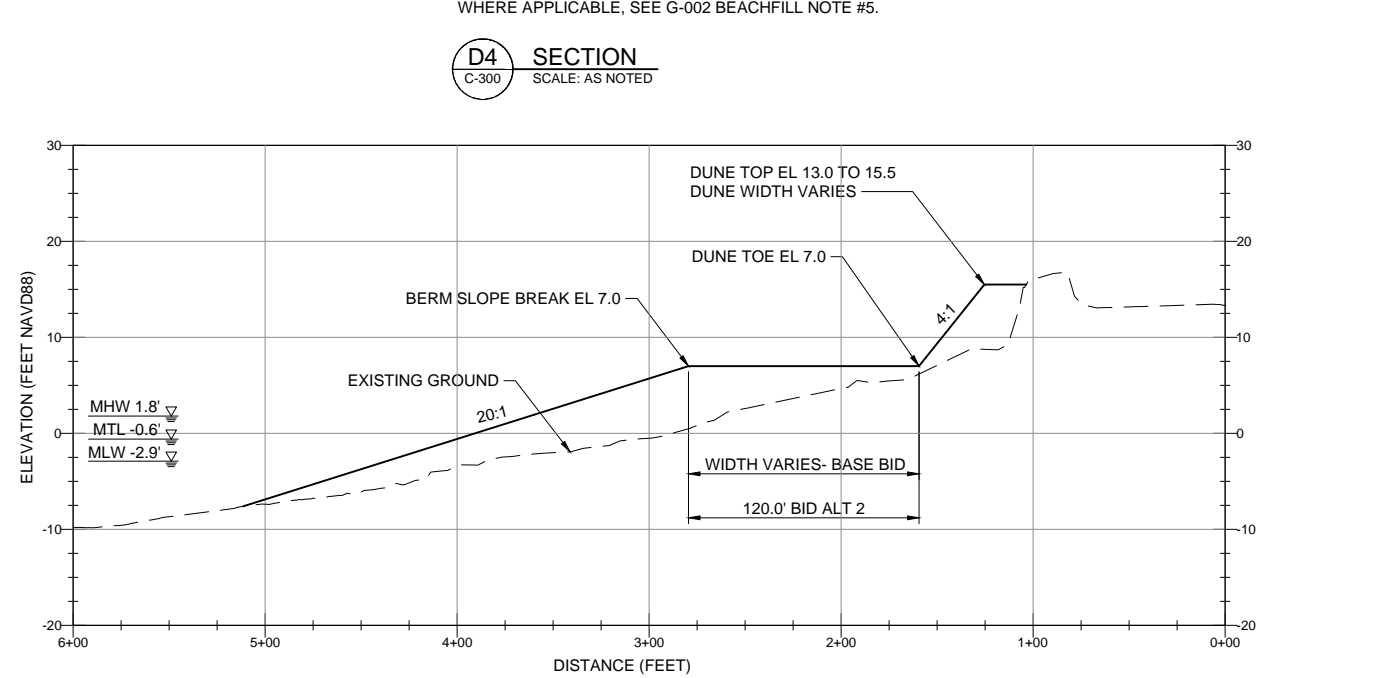
4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



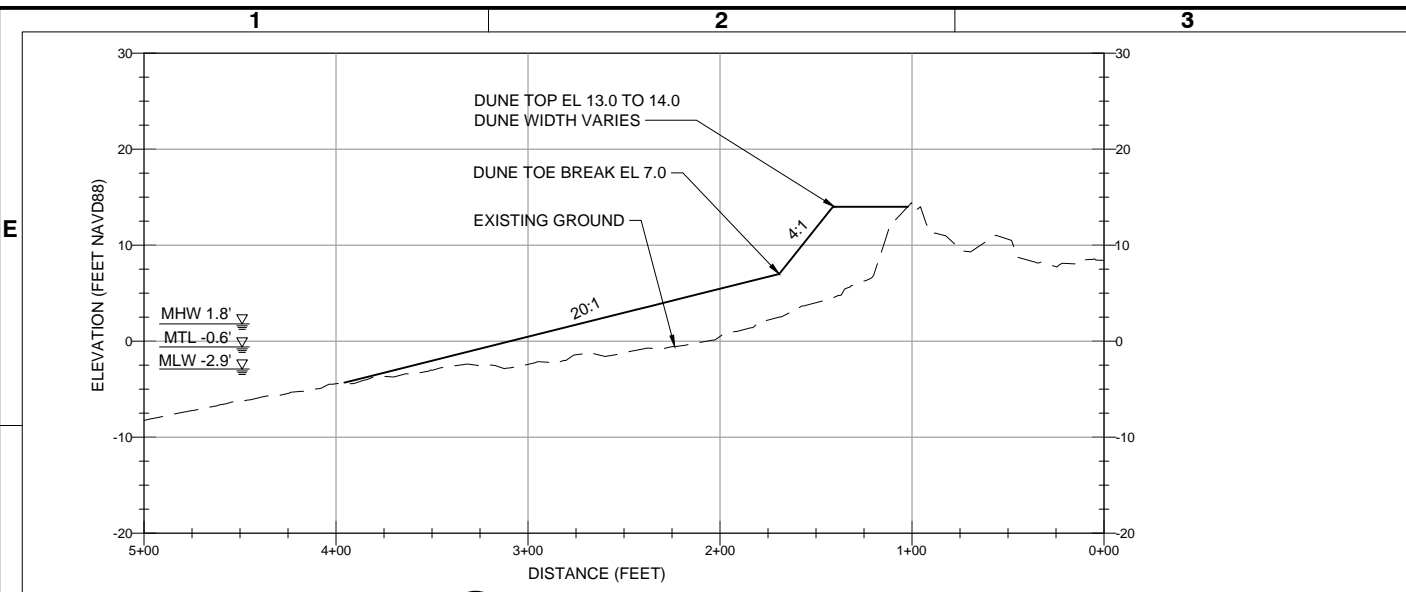
Sheet Reference No.
C-300
INDEX: 28 OF 45



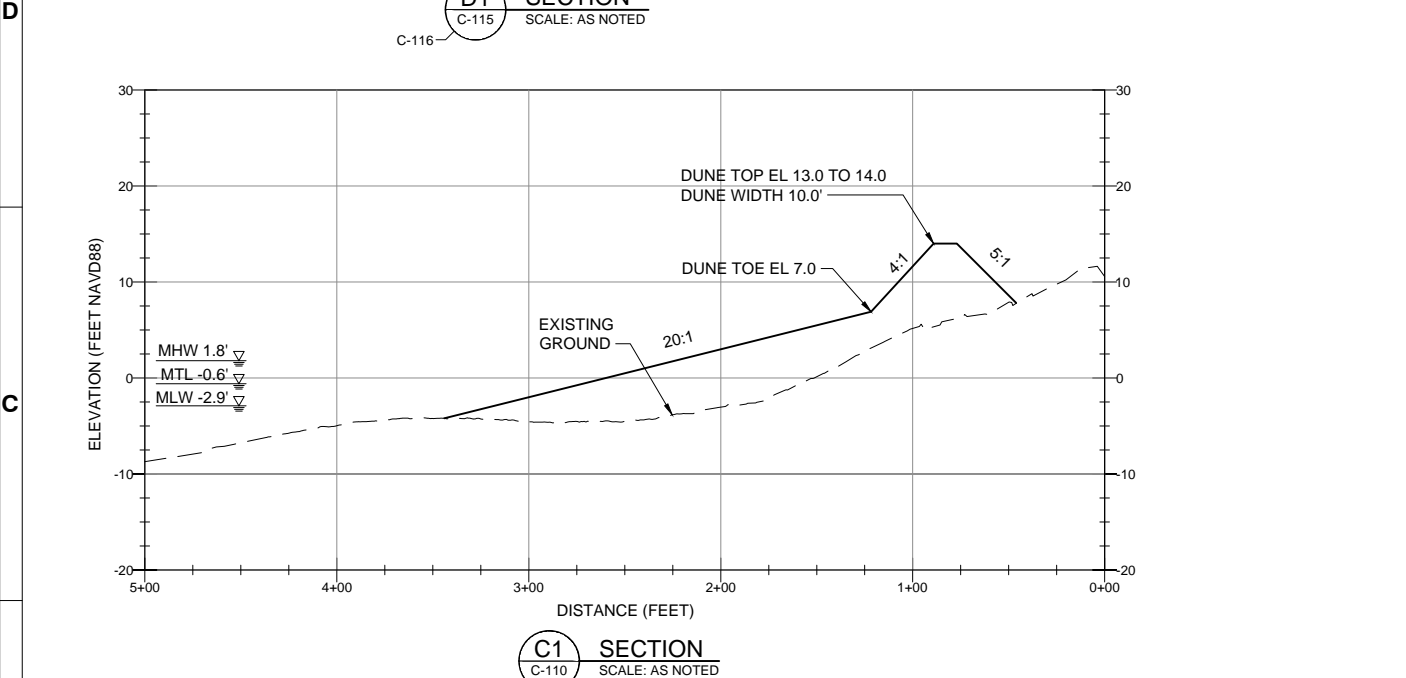
NOTE:
WHERE APPLICABLE, SEE G-002 BEACHFILL NOTE #5.



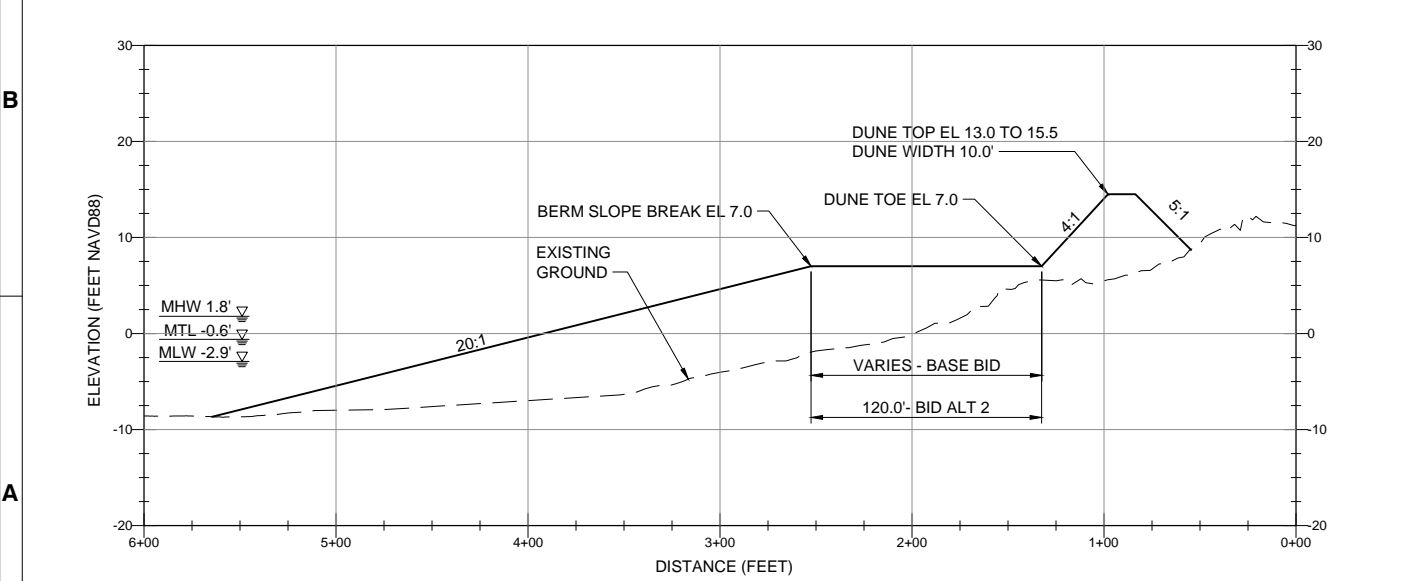
B4 SECTION
C-120
SCALE: AS NOTED



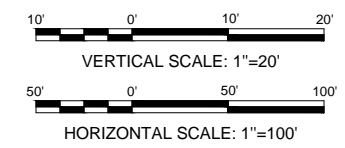
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C-115
SCALE: AS NOTED



C1 SECTION
C-110
SCALE: AS NOTED



A1 SECTION
C-120
SCALE: AS NOTED





Rev.	Date	By	Appr.
0	2022-02-11	JDM	

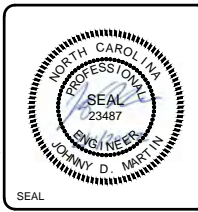
**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

**CROSS SECTIONS -
SHEET 1 OF 15**

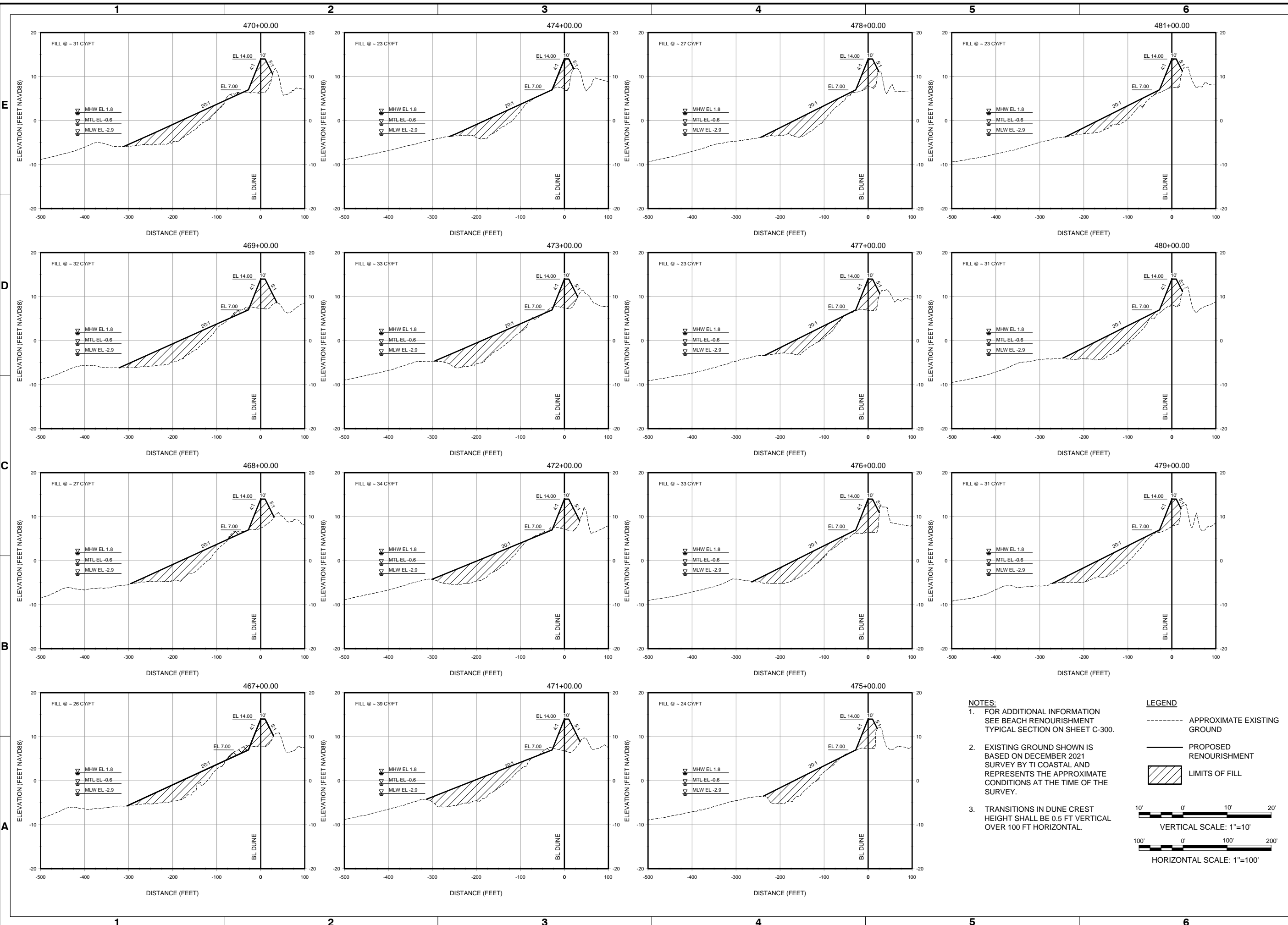
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Dwn by: VNM	Chk by: NCV	Per scale: 1" = 10' (10 SHEET)	Submitted by: JDM	MOFFATT & NICHOL

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105

moffatt & nichol



Sheet
Reference No.
C-301
INDEX: 29 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- ▨ LIMITS OF FILL

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

100' 0' 100' 200'
HORIZONTAL SCALE: 1"=100'

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0	ISSUED FOR CONSTRUCTION	JDM	2022-02-11	Aggr
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

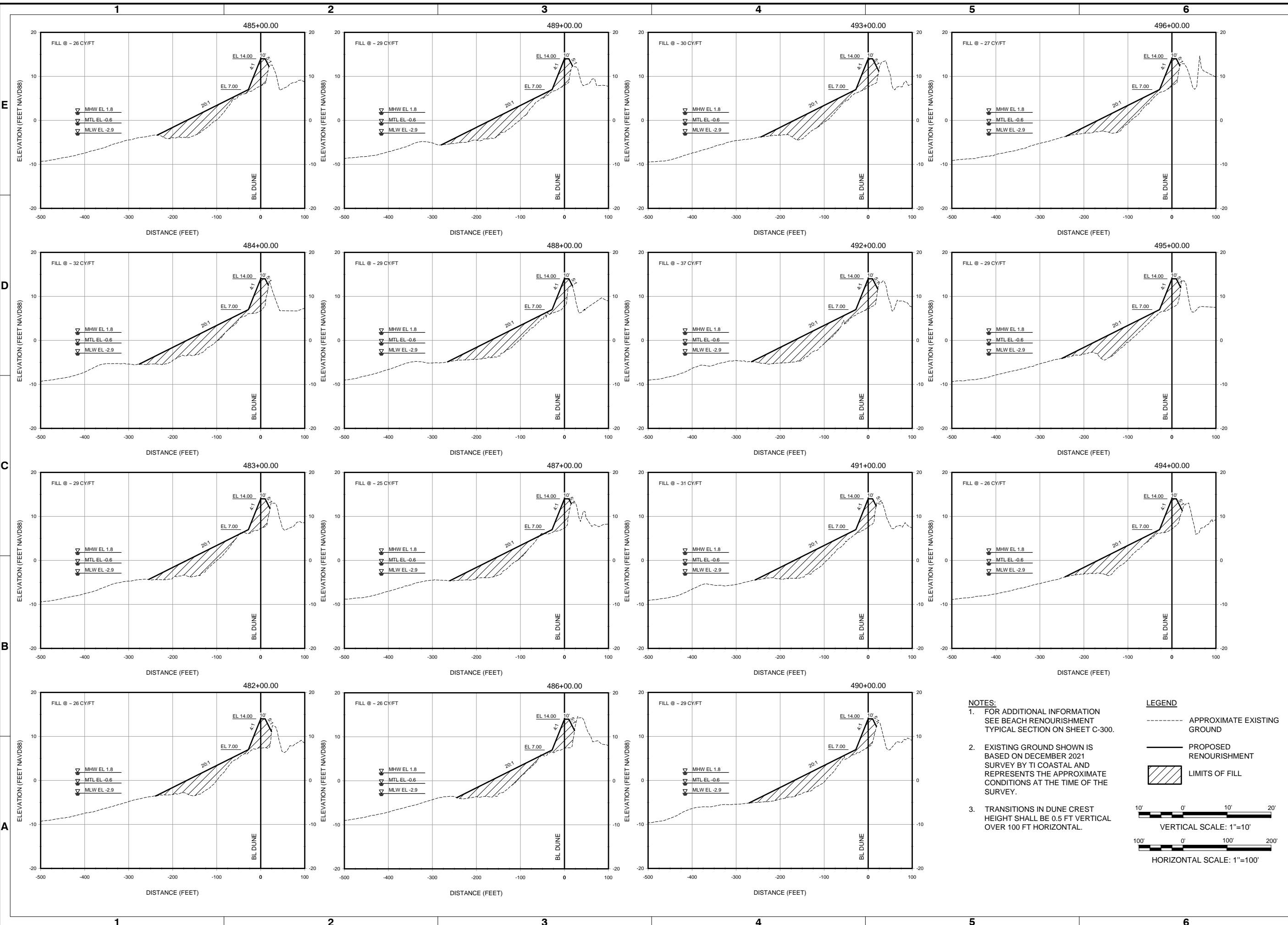
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SHEET 2 OF 15**

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Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 10' (10 SHEET)						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-302
INDEX: 30 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- ▨ LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'



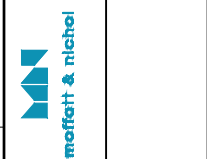
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

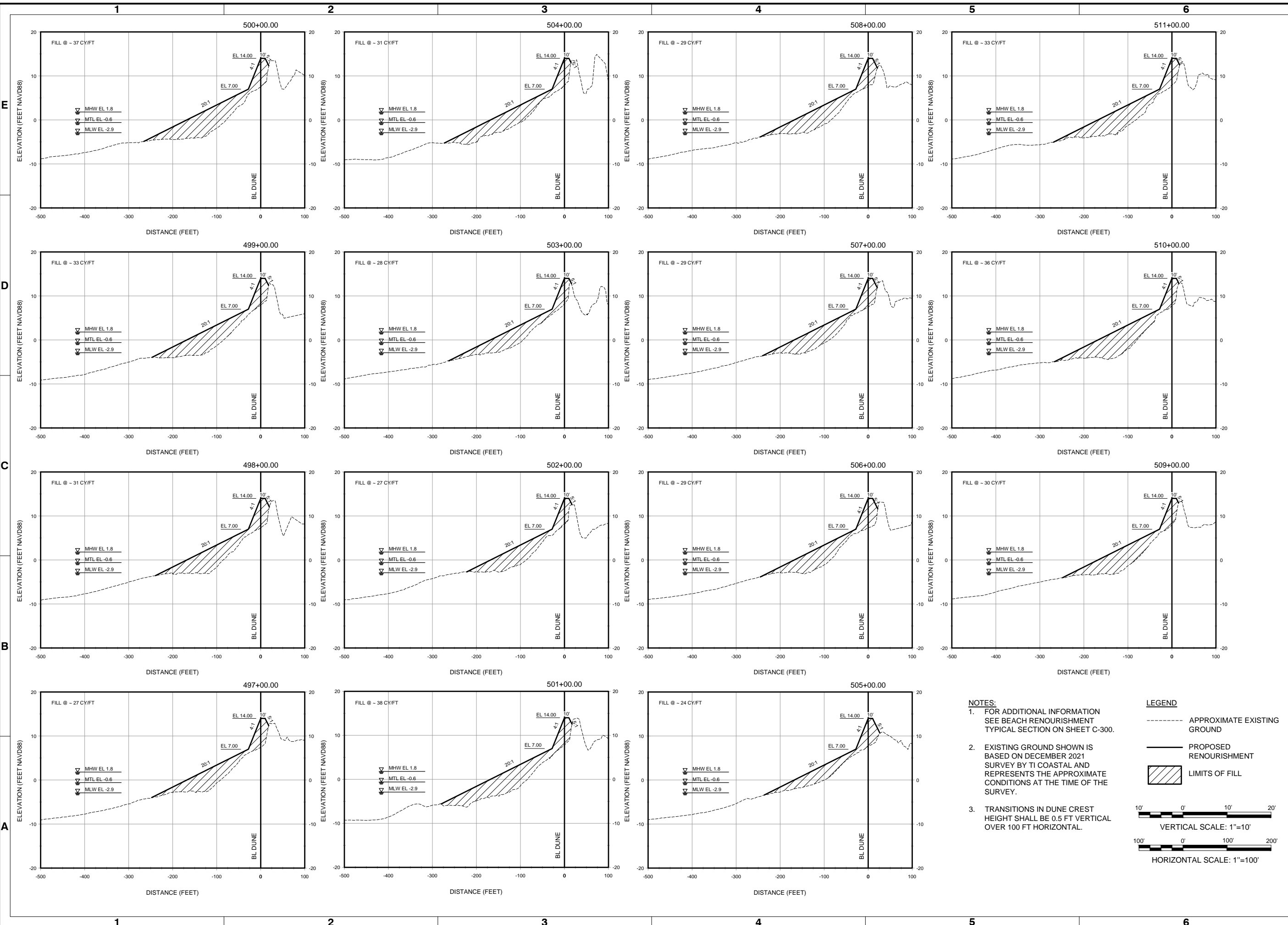
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Per scale:	1" = 10' (0 SHEET)						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-303
INDEX: 31 OF 45





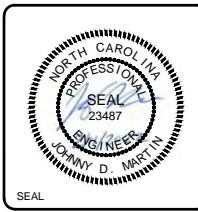
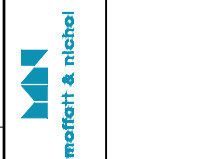
Rev.	Date	Appr.
0	2022-02-11	JDM
ISSUED FOR CONSTRUCTION		

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

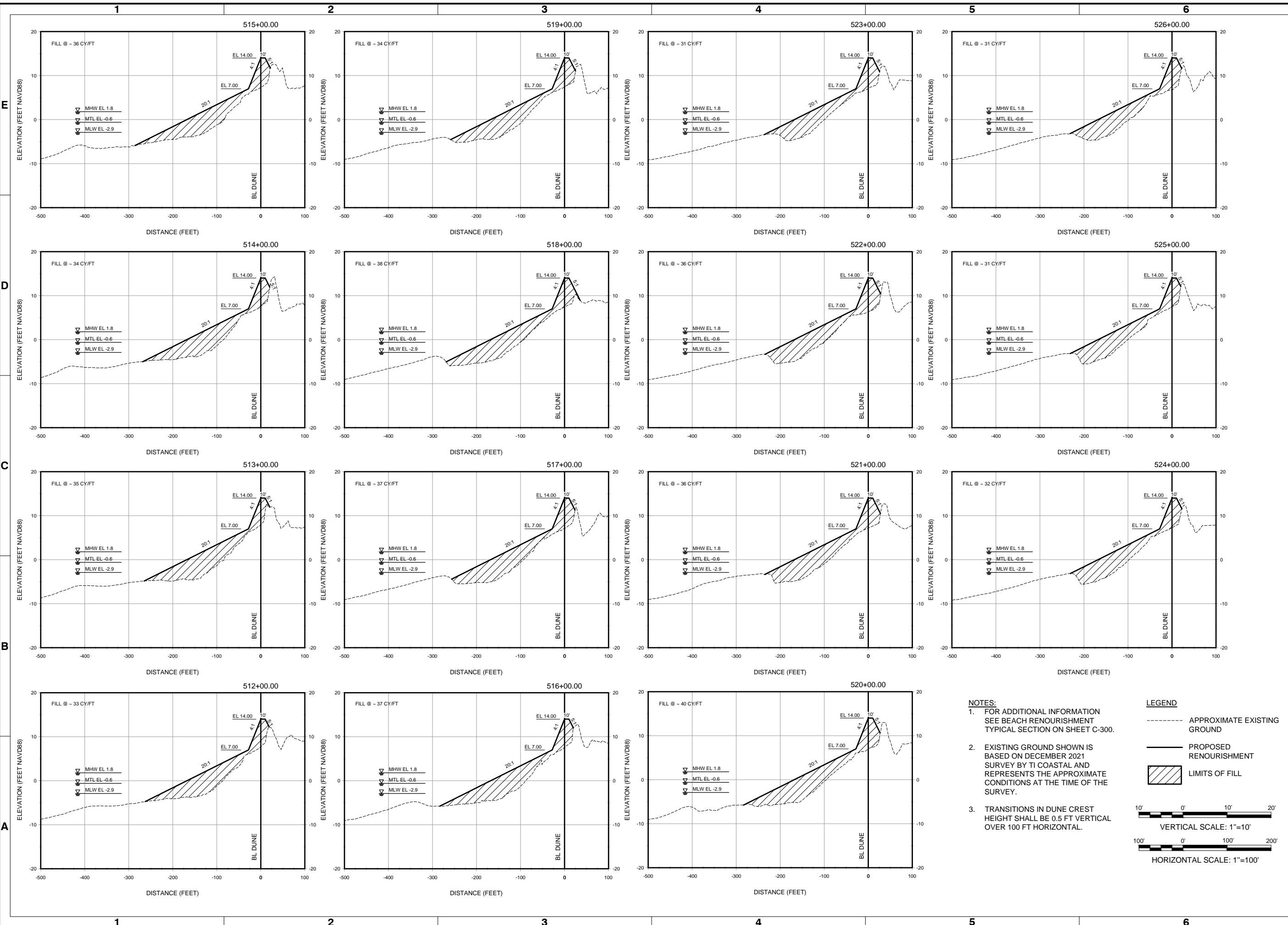
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Reviewed by: JDM	Drawn by: NCV	Drawing code:
Submitted by: MOFFATT & NICHOL	Drawing Scale: AS NOTED	Per scale: 1" = 10' (0 SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-304
INDEX: 32 OF 45





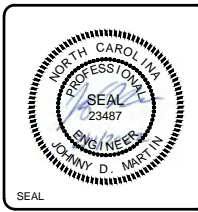
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

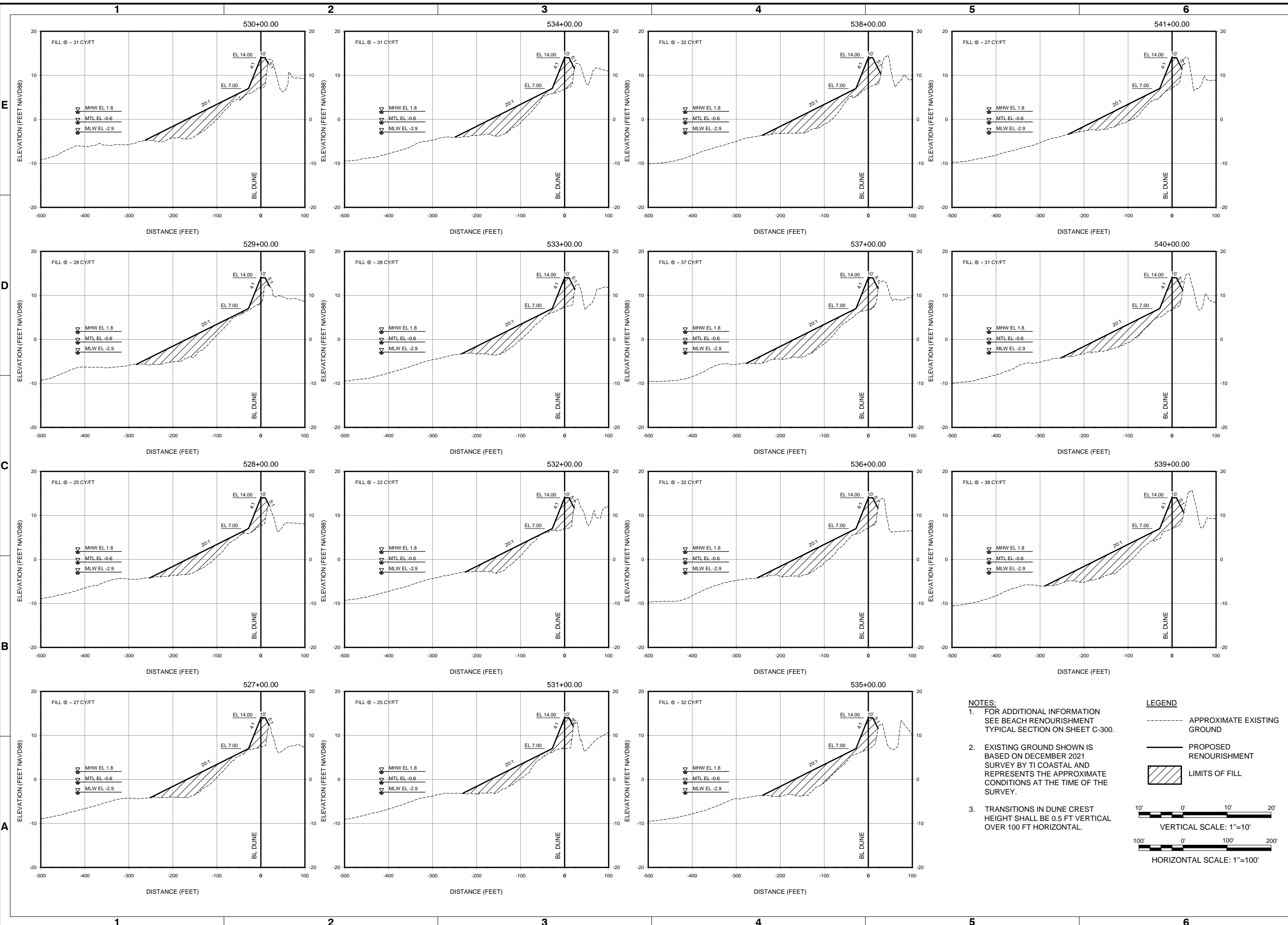
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SHEET 5 OF 15**

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Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED	Per scale:	1" = 10' (10 SHEETS)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-305
INDEX: 33 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- ▨ LIMITS OF FILL

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=100'



0	ISSUED FOR CONSTRUCTION	JDM	2022-02-11	Apr
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

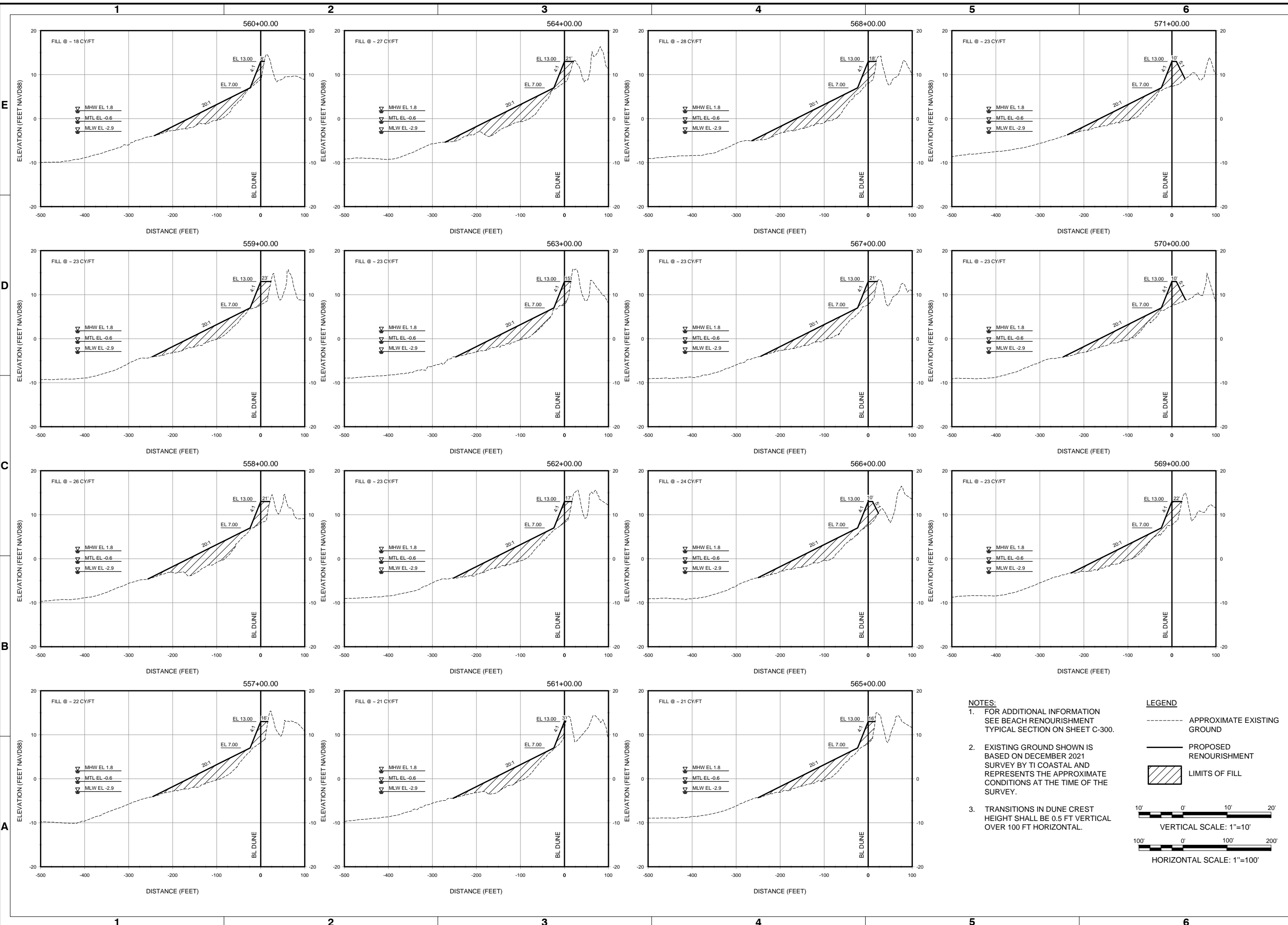
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Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED	Per scale:	1" = 10' (0 SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-307
INDEX: 35 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- ▨ LIMITS OF FILL

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=100'

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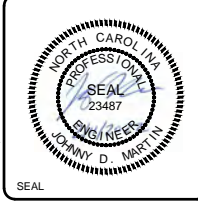
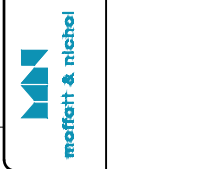
Rev.	Date	Appr.
0	2022-02-11	JDM
ISSUED FOR CONSTRUCTION		

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

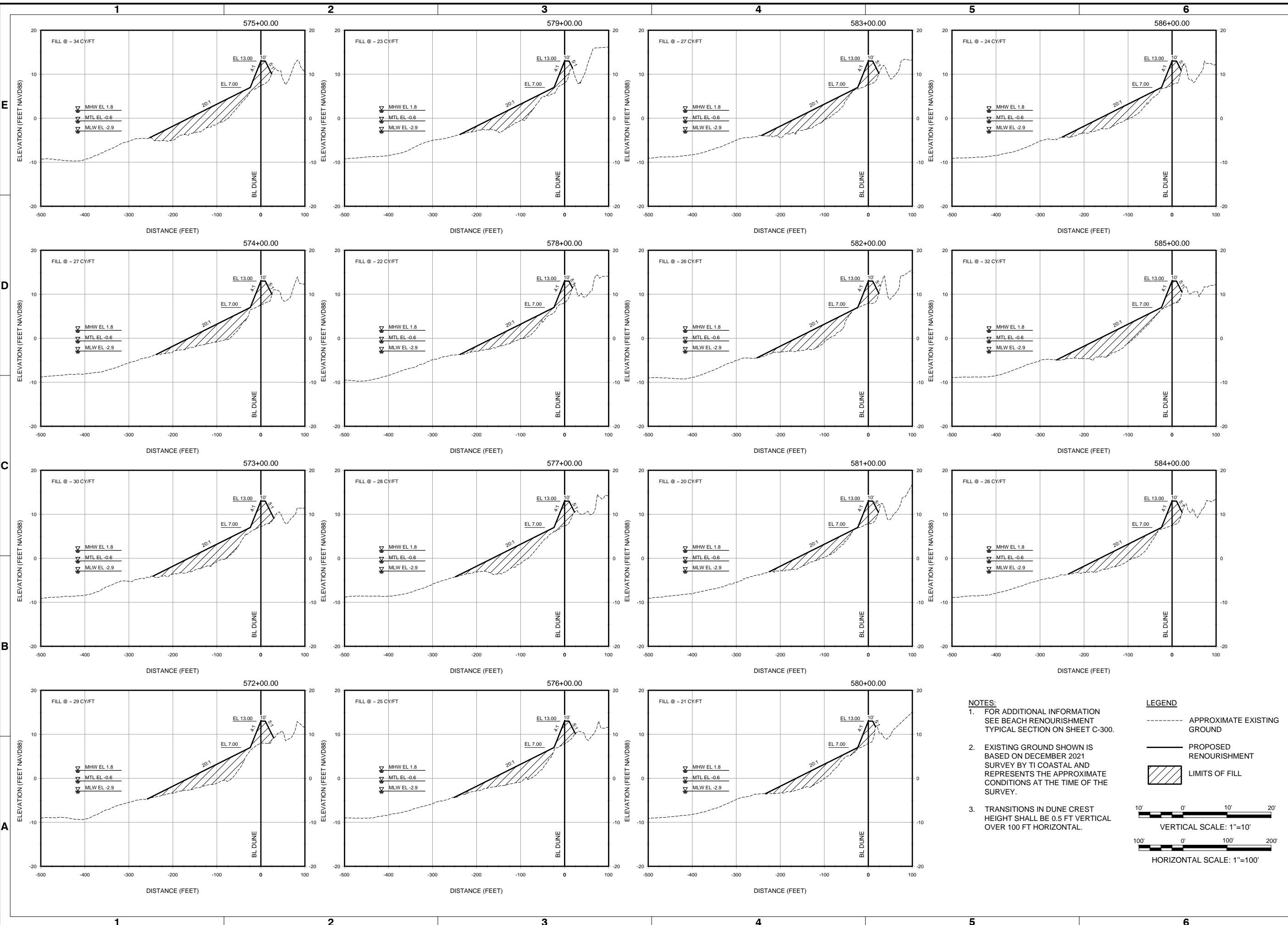
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Dwn by: VNM	MAN Project No. 10128-04	Drawing code:
Reviewed by: JDM	NCV	Drawing Scale: AS NOTED
Submitted by: MOFFATT & NICHOL		Per scale: 1" = 10' (10 SHEETS)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-308
INDEX: 36 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- ▨ LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'



Rev.	Date	By	Appr.
0	2022-02-11	JDM	
ISSUED FOR CONSTRUCTION			

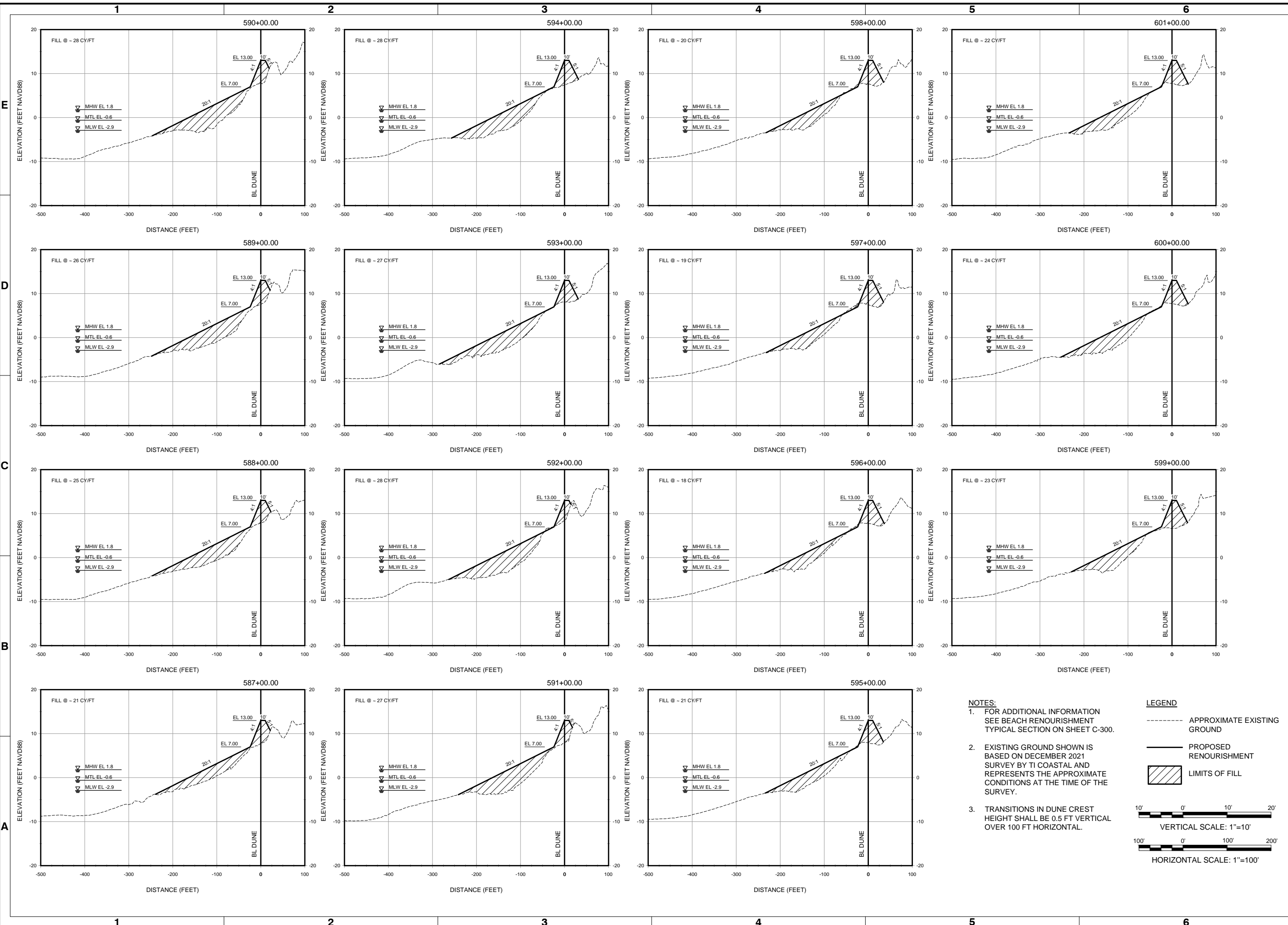
**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022
CROSS SECTIONS -
SHEET 9 OF 15**

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Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 10' (10 SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-309
INDEX: 37 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- ▨ LIMITS OF FILL

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

100' 0' 100' 200'
HORIZONTAL SCALE: 1"=100'



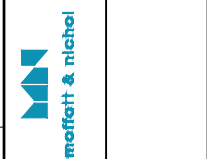
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

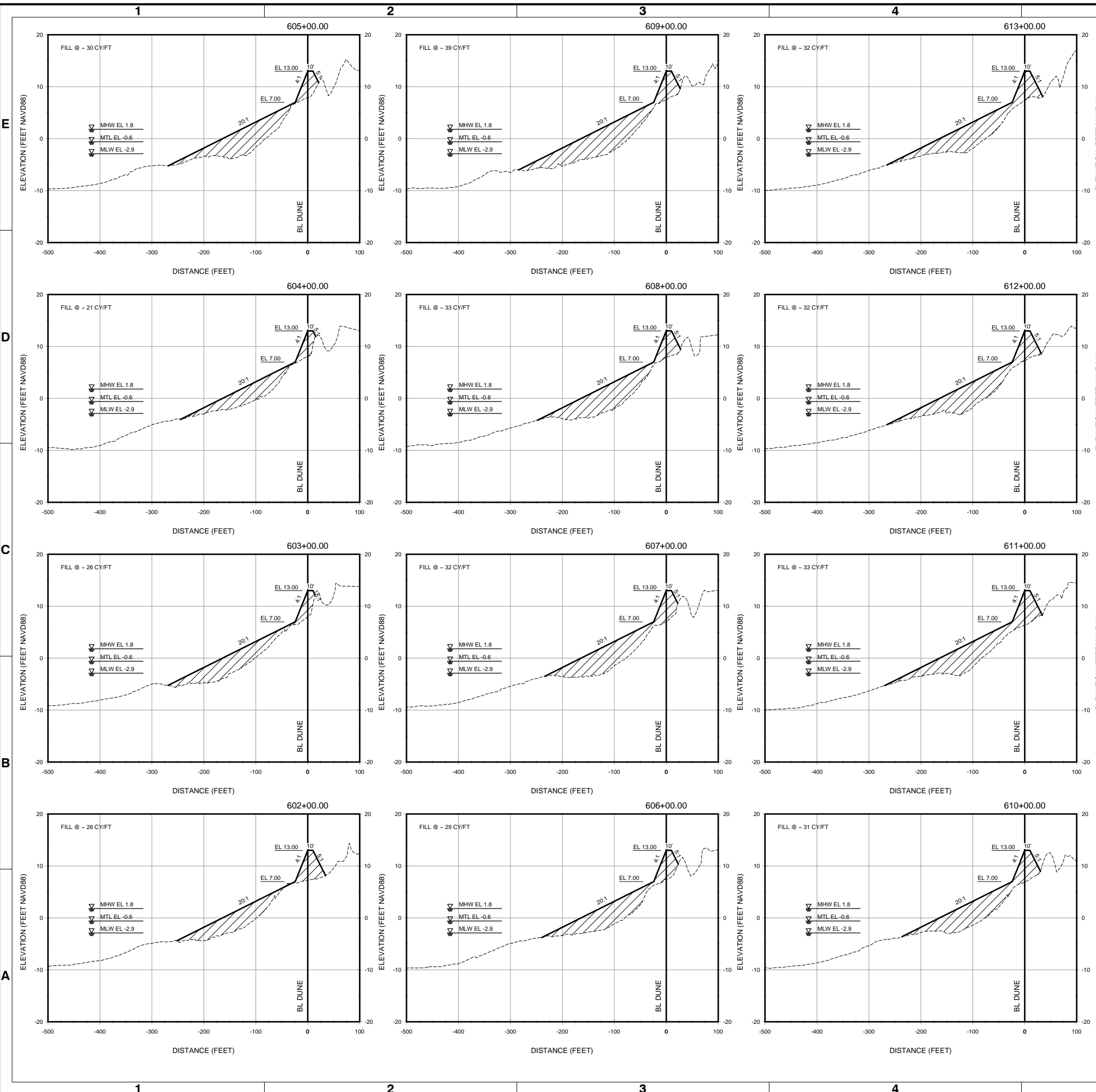
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SHEET 10 OF 15**

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Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 10' (10 SHEET)						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-310
INDEX: 38 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- ▨ LIMITS OF FILL

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

100' 0' 100' 200'
HORIZONTAL SCALE: 1"=100'



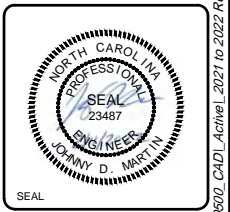
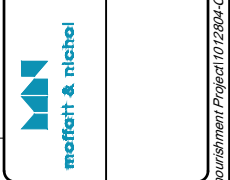
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ISSUED FOR CONSTRUCTION		

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

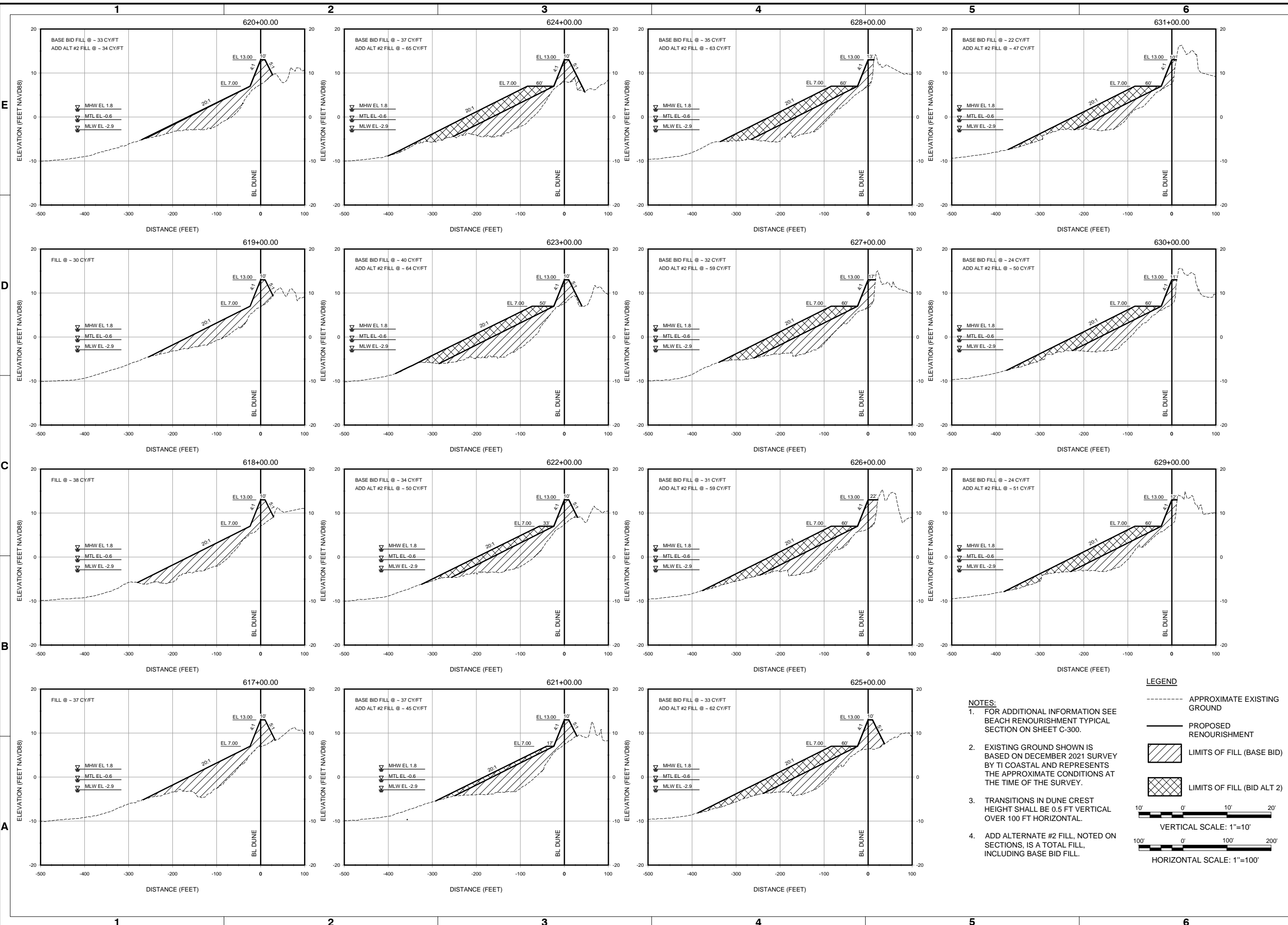
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Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 10' (0 SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-311
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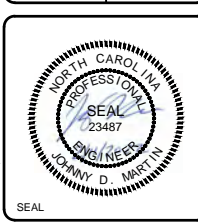
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

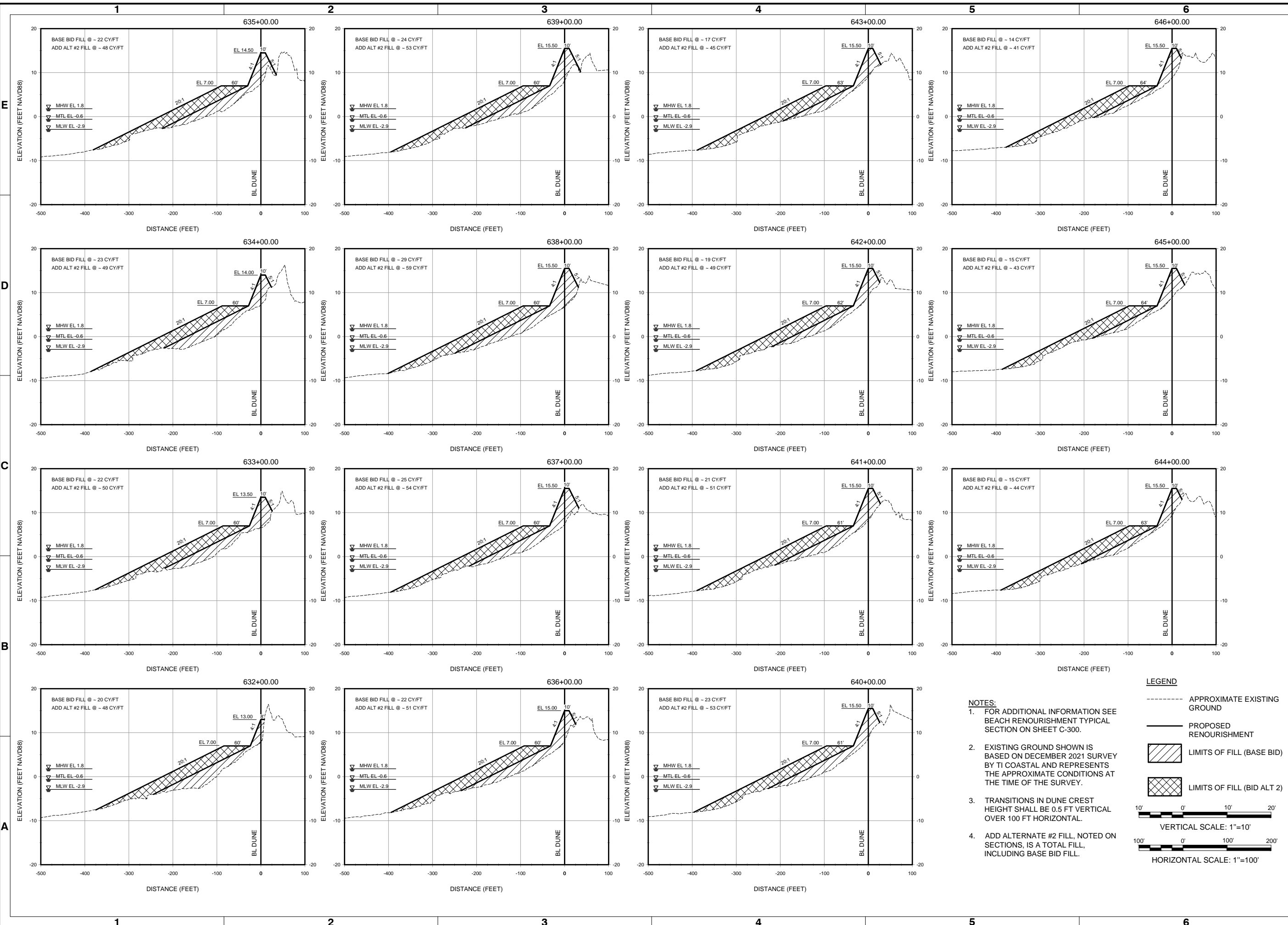
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Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1"=10' (10 SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-312
INDEX: 40 OF 45



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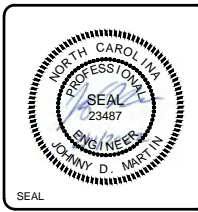
Rev.	Date	Description
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

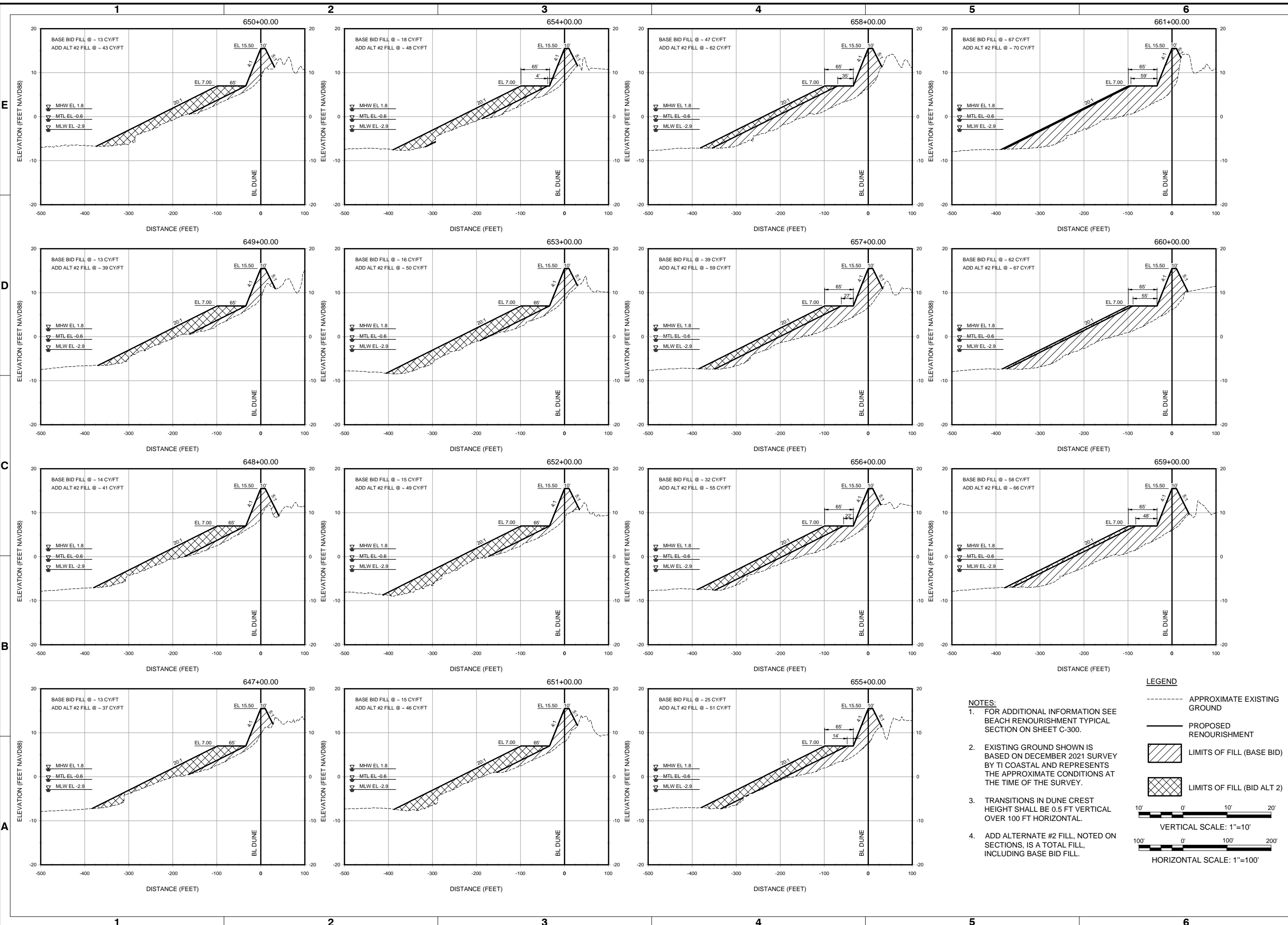
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4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-313
INDEX: 41 OF 45



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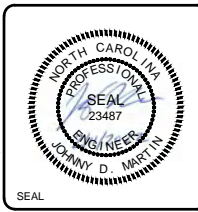
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

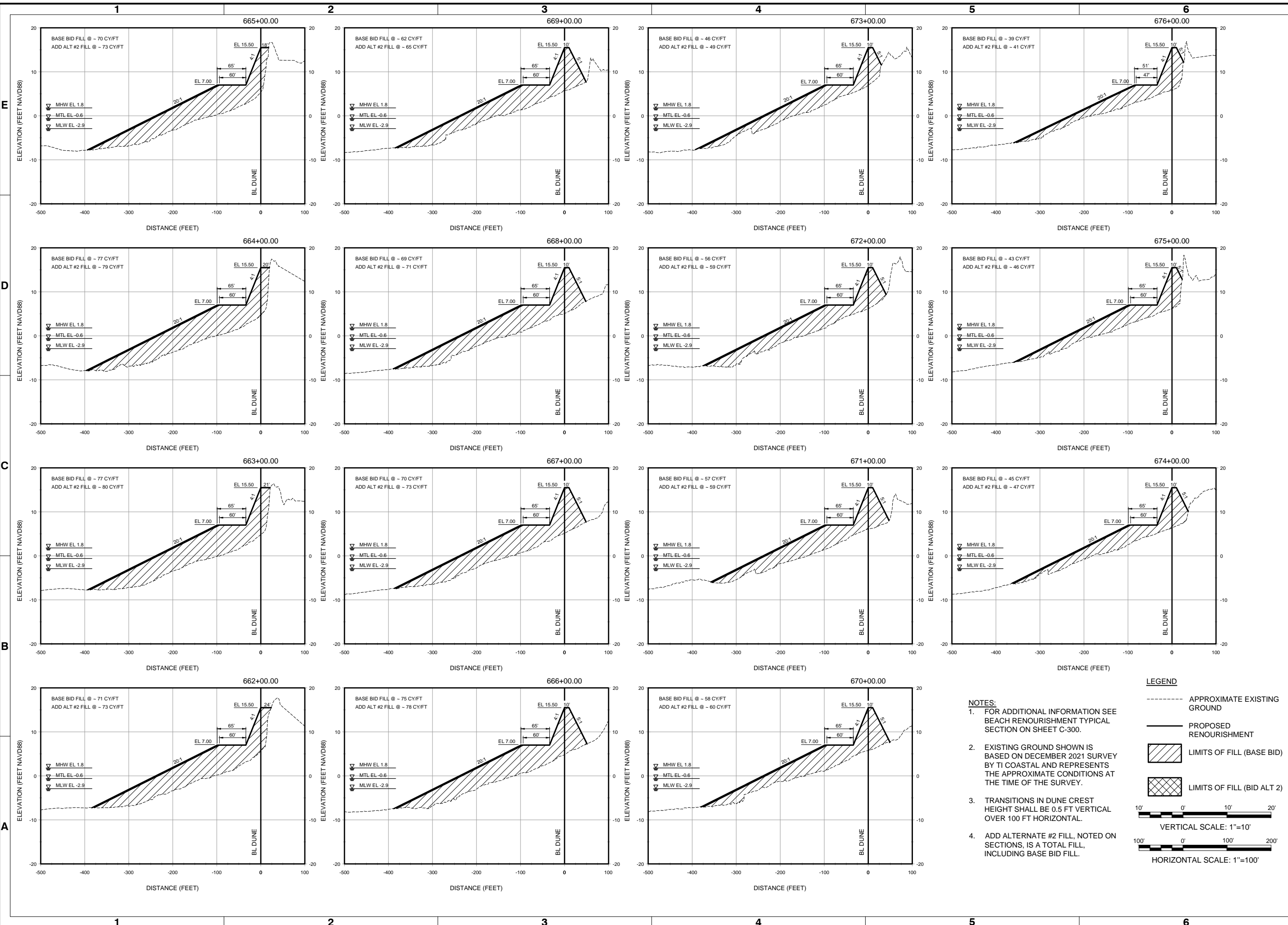
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Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 10' (SEE SHEET)

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-314
INDEX: 42 OF 45



- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.
 - ADD ALTERNATE #2 FILL, NOTED ON SECTIONS, IS A TOTAL FILL, INCLUDING BASE BID FILL.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- [Diagonal Hatching] LIMITS OF FILL (BASE BID)
- [Cross-hatching] LIMITS OF FILL (BID ALT 2)

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=100'



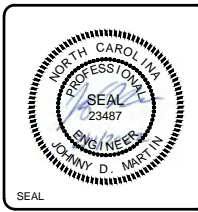
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**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

**CROSS SECTIONS -
SHEET 15 OF 15**

Designed by:	BPG	Drawn by:	VNM	Reviewed by:	JDM	Submitted by:	MOFFATT & NICHOL
Date:	2022-02-11	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS NOTED
Per state:	1:1 (0 SHEET)						

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet Reference No.
C-315
INDEX: 43 OF 45

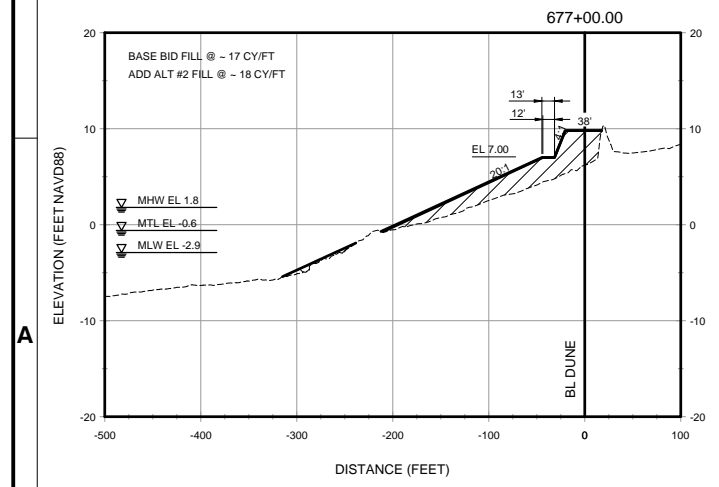
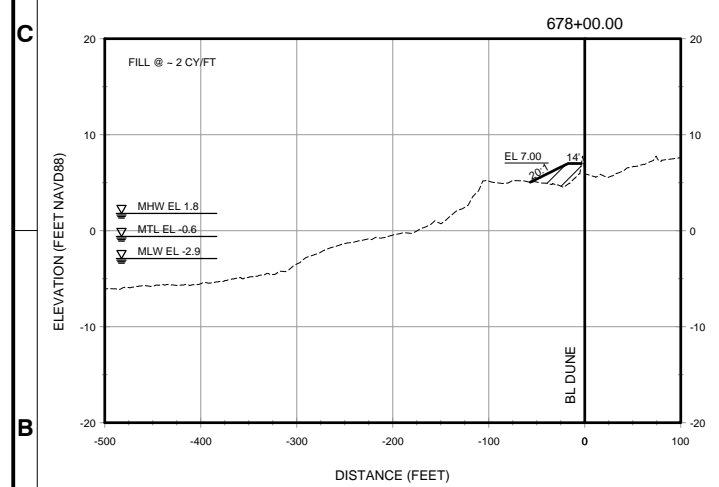
- NOTES:**
- FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON DECEMBER 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.
 - TRANSITIONS IN DUNE CREST HEIGHT SHALL BE 0.5 FT VERTICAL OVER 100 FT HORIZONTAL.
 - ADD ALTERNATE #2 FILL, NOTED ON SECTIONS, IS A TOTAL FILL, INCLUDING BASE BID FILL.

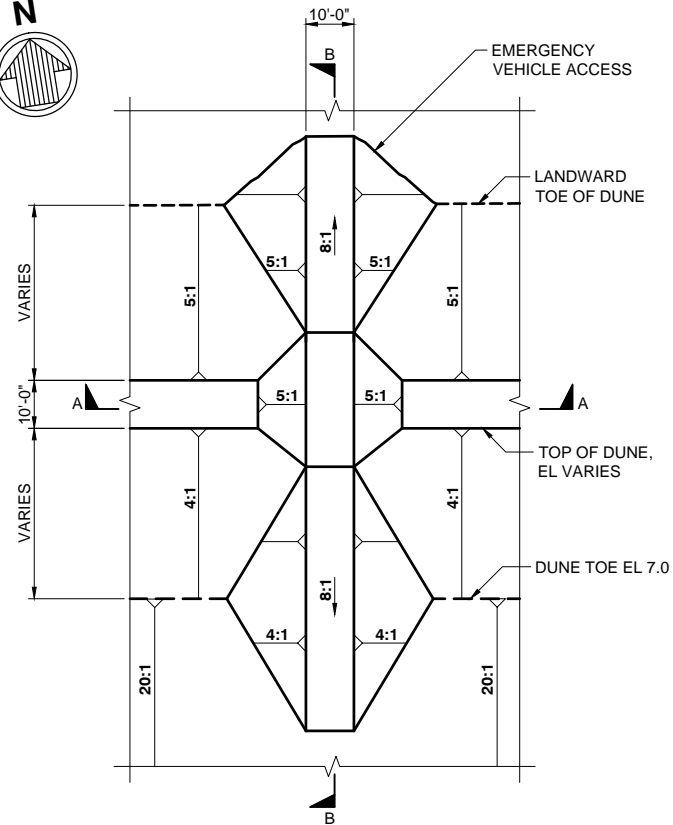
LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- [Hatched Box] LIMITS OF FILL (BASE BID)
- [Cross-hatched Box] LIMITS OF FILL (BID ALT 2)

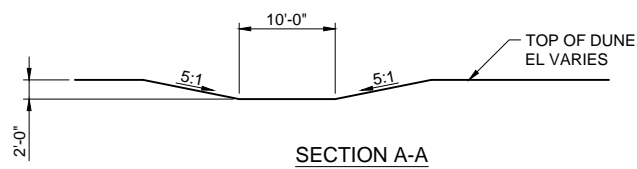
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VERTICAL SCALE: 1"=10'

100' 0' 100' 200'
HORIZONTAL SCALE: 1"=100'

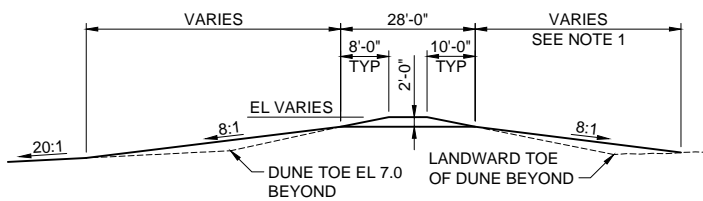




PLAN



SECTION A-A



SECTION B-B

NOTE:
SLOPE MAY VARY TO AVOID FILL WITHIN EXISTING PARKING LOTS.

A1 EMERGENCY VEHICLE ACCESS
SCALE: NOT TO SCALE

C-111, C-115, C-117, C-120,
C-125, C-129, C-133



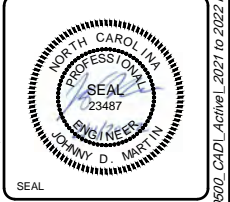
Rev.	Date	Description
0	2022-02-11	ISSUED FOR CONSTRUCTION

**OAK ISLAND RENOURISHMENT
PROJECT 2021/2022**

MISCELLANEOUS DETAILS

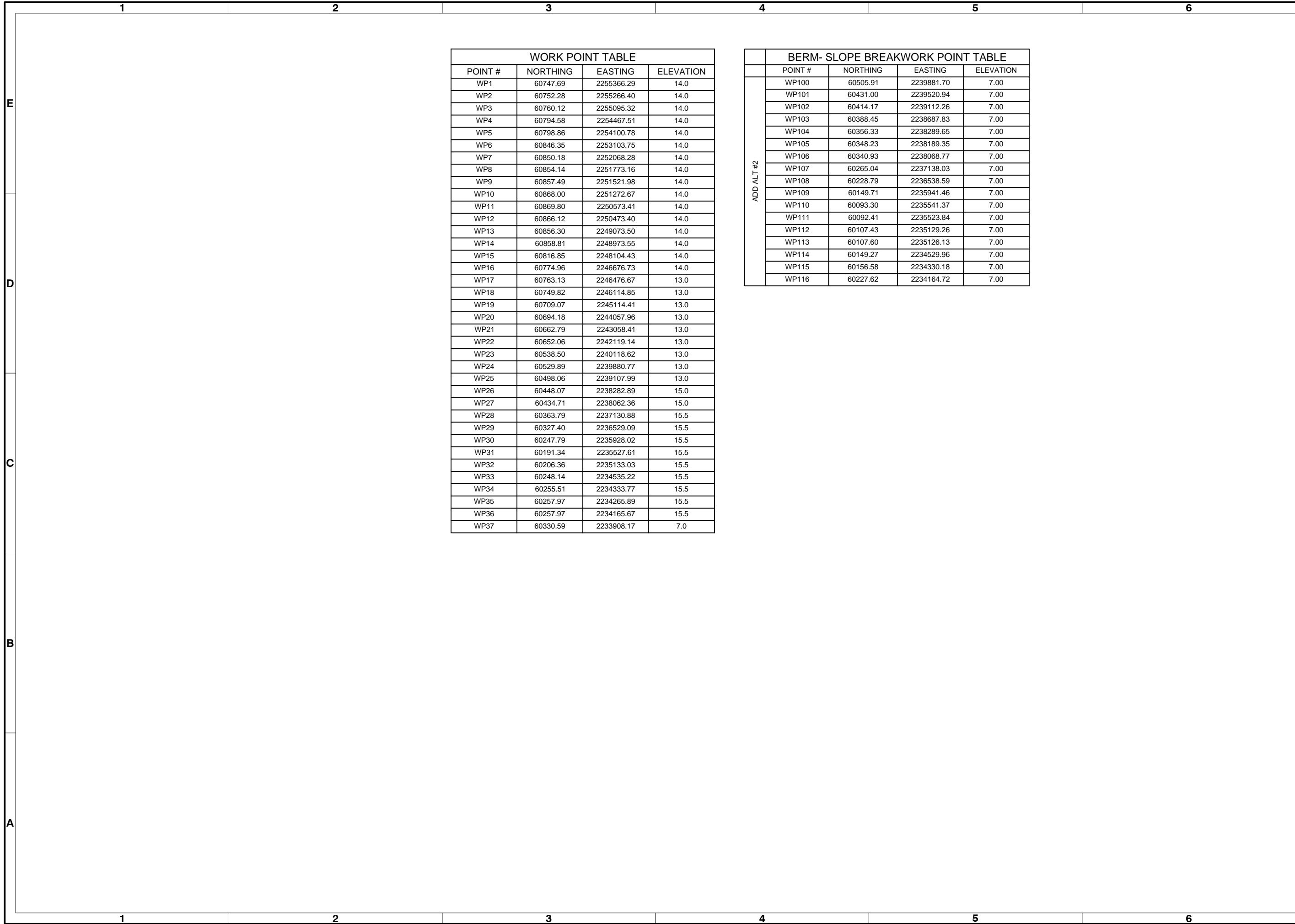
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Dwn by: VNM	MAN Project No. 10128-04	
Chk by: NCV	Drawing code:	
Reviewed by: JDM	Drawing Scale: AS NOTED	Per scale: 1" = 10' (SHEET)
Submitted by: MOFFATT & NICHOL	Prepared by: MORGAN, NEKOL	

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0105



Sheet
Reference No.
C-501
INDEX: 44 OF 45

File: Q:\RAI\10128-04\0600_CAD\Active_L_2021 to 2022 Renourishment Project\1012801-C-501 - Platexr_21112022 5:00 PM by MORGAN, NEKOL; Saved: 7/7/2021 5:55 PM by MMORGAN



WORK POINT TABLE			
POINT #	NORTHING	EASTING	ELEVATION
WP1	60747.69	2255366.29	14.0
WP2	60752.28	2255266.40	14.0
WP3	60760.12	2255095.32	14.0
WP4	60794.58	2254467.51	14.0
WP5	60798.86	2254100.78	14.0
WP6	60846.35	2253103.75	14.0
WP7	60850.18	2252068.28	14.0
WP8	60854.14	2251773.16	14.0
WP9	60857.49	2251521.98	14.0
WP10	60868.00	2251272.67	14.0
WP11	60869.80	2250573.41	14.0
WP12	60866.12	2250473.40	14.0
WP13	60856.30	2249073.50	14.0
WP14	60858.81	2248973.55	14.0
WP15	60816.85	2248104.43	14.0
WP16	60774.96	2246676.73	14.0
WP17	60763.13	2246476.67	13.0
WP18	60749.82	2246114.85	13.0
WP19	60709.07	2245114.41	13.0
WP20	60694.18	2244057.96	13.0
WP21	60662.79	2243058.41	13.0
WP22	60652.06	2242119.14	13.0
WP23	60538.50	2240118.62	13.0
WP24	60529.89	2239880.77	13.0
WP25	60498.06	2239107.99	13.0
WP26	60448.07	2238282.89	15.0
WP27	60434.71	2238062.36	15.0
WP28	60363.79	2237130.88	15.5
WP29	60327.40	2236529.09	15.5
WP30	60247.79	2235928.02	15.5
WP31	60191.34	2235527.61	15.5
WP32	60206.36	2235133.03	15.5
WP33	60248.14	2234535.22	15.5
WP34	60255.51	2234333.77	15.5
WP35	60257.97	2234265.89	15.5
WP36	60257.97	2234165.67	15.5
WP37	60330.59	2233908.17	7.0

ADD ALT #2	BERM- SLOPE BREAKWORK POINT TABLE			
	POINT #	NORTHING	EASTING	ELEVATION
	WP100	60505.91	2239881.70	7.00
	WP101	60431.00	2239520.94	7.00
	WP102	60414.17	2239112.26	7.00
	WP103	60388.45	2238687.83	7.00
	WP104	60356.33	2238289.65	7.00
	WP105	60348.23	2238189.35	7.00
	WP106	60340.93	2238068.77	7.00
	WP107	60265.04	2237138.03	7.00
	WP108	60228.79	2236538.59	7.00
	WP109	60149.71	2235941.46	7.00
	WP110	60093.30	2235541.37	7.00
	WP111	60092.41	2235523.84	7.00
	WP112	60107.43	2235129.26	7.00
	WP113	60107.60	2235126.13	7.00
	WP114	60149.27	2234529.96	7.00
	WP115	60156.58	2234330.18	7.00
	WP116	60227.62	2234164.72	7.00



Rev.	Date	Appr.
0	2022-02-11	JDM

OAK ISLAND RENOURISHMENT
PROJECT 2021/2022

WORK POINT TABLES

Designed by: BPG	Drawn by: VNM	Checked by: NCV	Reviewed by: JDM	Submitted by: MOFFATT & NICHOL
Date: 2022-02-11	MAN Project No. 10128-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1" = 10' (0 SHEET)
Rev: 0				

4700 FALLS OF THE
NEUSE ROAD, STE 300
RALEIGH, NC 27609
NC FIRM NO. F-0106



Sheet Reference No.
C-601

INDEX: 45 OF 45

Appendix B2:

Planting Plans

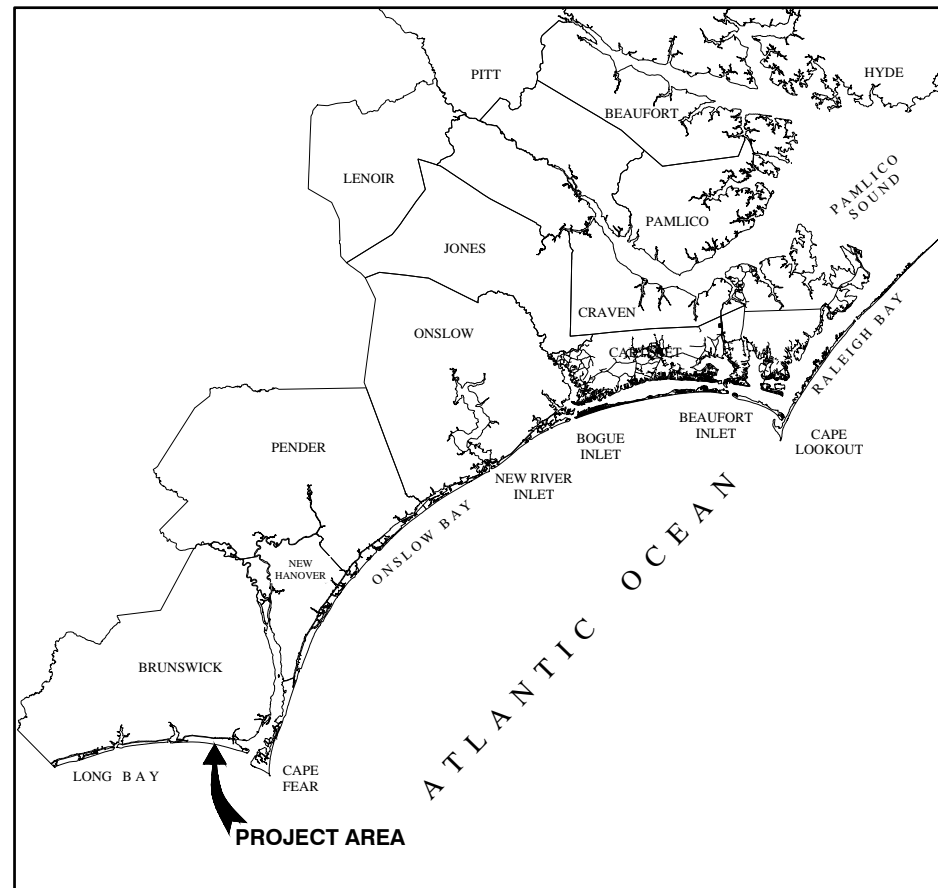
OAK ISLAND DUNE PLANTING PROJECT 2021/2022

OAK ISLAND, NORTH CAROLINA

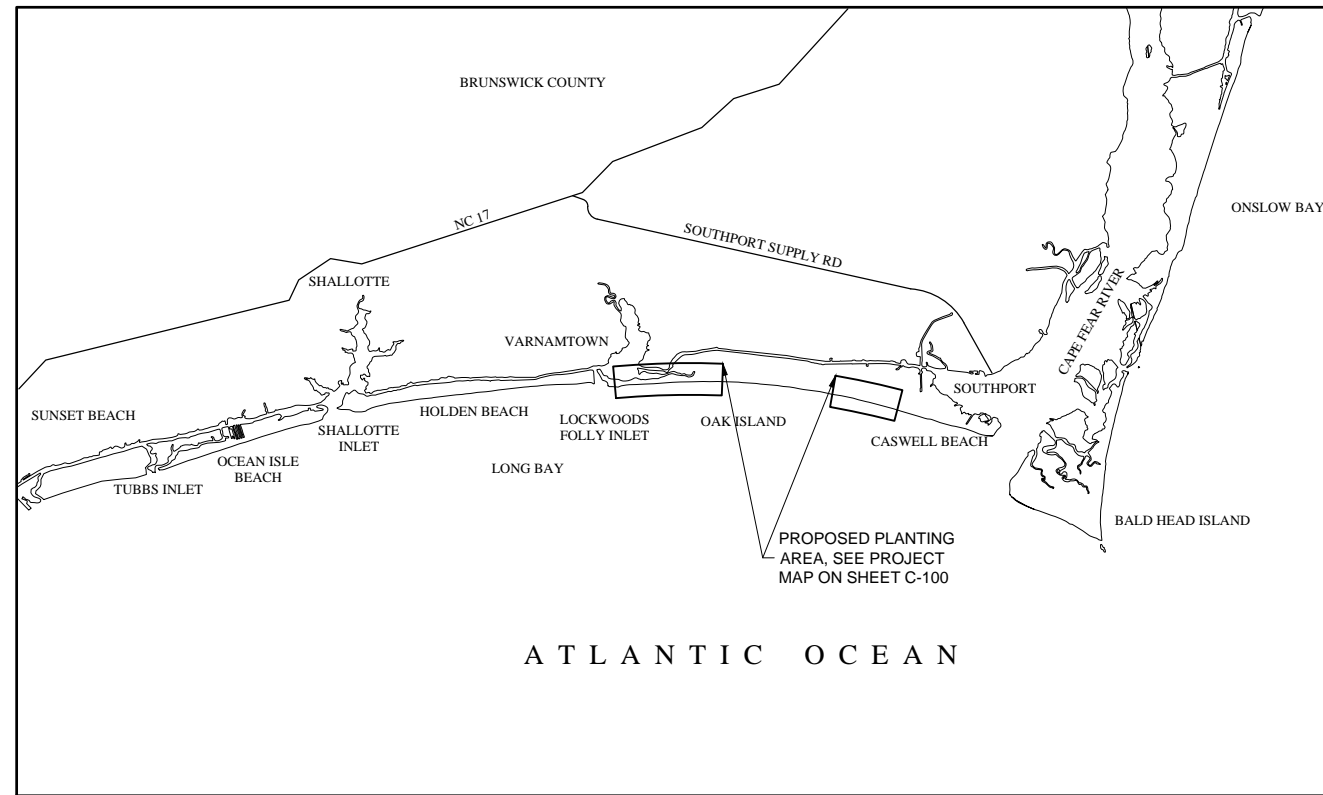


TOWN OF OAK ISLAND
4601 E. OAK ISLAND DRIVE
OAK ISLAND, NC 28465

INDEX OF DRAWINGS	
SHEET NO.	SHEET TITLE
G-001	COVER SHEET
C-100	PROJECT MAP
C-101	STAGING ACCESS AREAS
C-300	TYPICAL SECTION



VICINITY MAP
NTS



LOCATION MAP
NTS

ISSUED FOR BID
 ISSUED: 2021-10-21
 NOT TO BE USED FOR CONSTRUCTION



Rev.	Date	Description
0	2021-10-21	ISSUED FOR BID

OAK ISLAND DUNE PLANTING
 PROJECT 2021/2022

COVER SHEET

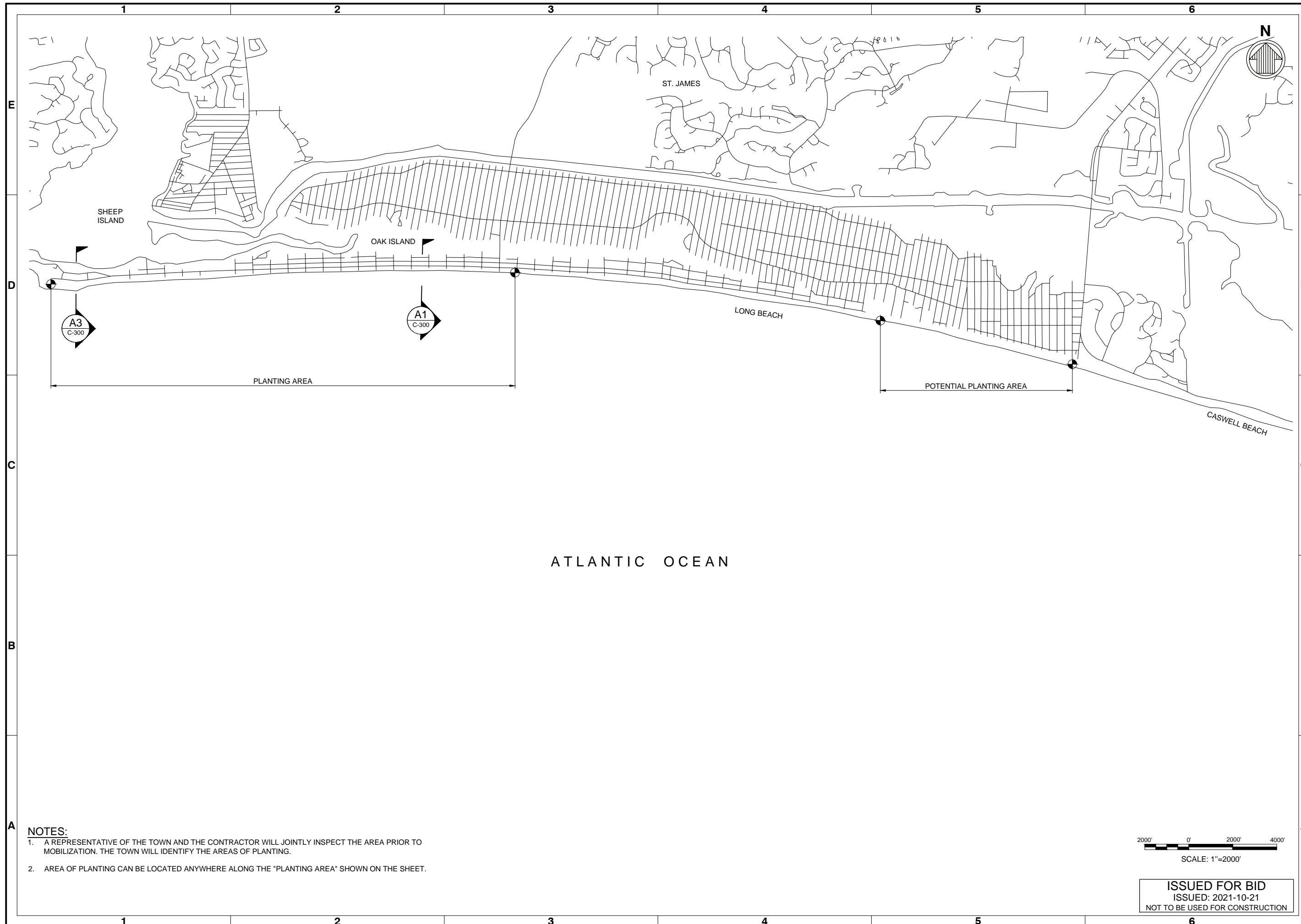
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Date:	2021-10-21	MAN Project No.:	10128-04	Drawing code:		Drawing Scale:	AS SHOWN
Per scale:	1" = 10' (SHEET)						

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
 919-781-4826

SEAL

Sheet Reference No.
G-001
 INDEX: 1 OF 4

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Rev.	Date	Description
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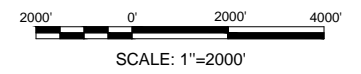
**OAK ISLAND DUNE PLANTING
PROJECT 2021/2022**

PROJECT MAP

Designed by: B. GRANT	Date: 2021-10-21	Rev.:	0
Dwn by: VNM	MAN Project No. 10128-04	Drawing code:	
Reviewed by: J. MARTIN	Drawn by: SM	Drawing Scale:	AS SHOWN
Submitted by: MOFFATT & NICHOL		Per scale:	1" = 10' (SHEET)

4700 FALLS OF THE NEUSE ROAD, STE
300 RALEIGH, NC 27609
919-781-4826

- NOTES:**
1. A REPRESENTATIVE OF THE TOWN AND THE CONTRACTOR WILL JOINTLY INSPECT THE AREA PRIOR TO MOBILIZATION. THE TOWN WILL IDENTIFY THE AREAS OF PLANTING.
 2. AREA OF PLANTING CAN BE LOCATED ANYWHERE ALONG THE 'PLANTING AREA' SHOWN ON THE SHEET.



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ISSUED: 2021-10-21
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SEAL

Sheet
Reference No.
C-100
INDEX: 2 OF 4

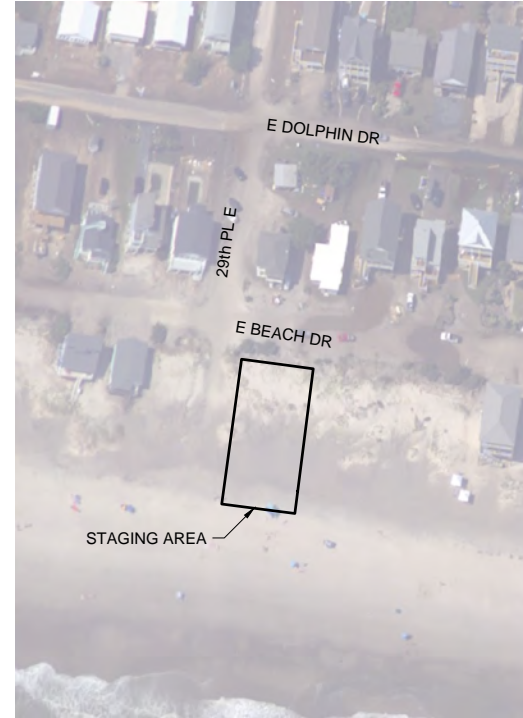
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C1 STAGING AREA 1
G-004 NOT TO SCALE



C2 STAGING AREA 2
G-004 NOT TO SCALE



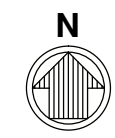
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G-004 NOT TO SCALE



C5 STAGING AREA 4
G-004 NOT TO SCALE



A1 STAGING AREA 5
G-004 NOT TO SCALE



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0	2021-10-21	ISSUED FOR BID	JDM

OAK ISLAND DUNE PLANTING PROJECT 2021/2022

STAGING ACCESS AREAS

Designed by:	B. GRANT	Date:	2021-10-21	Rev:	0
Dwn by:	VNM	MAN Project No.:	10128-04		
Reviewed by:	J. MARTIN	Drawing code:			
Submitted by:	MOPFATT & NICHOL	Drawing Scale:	AS SHOWN		
		Per scale:	1" = 10' (SHEET)		

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4826

mofatt & nichol

Sheet Reference No.
C-101
INDEX: 3 OF 4

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GENERAL NOTES:

1. SEE TECHNICAL SPECIFICATIONS FOR PLANTING, FERTILIZING AND WATERING REQUIREMENTS.
2. PLANTING SPACING SHALL BE A STAGGERED 24" ON CENTER PATTERN.
3. EACH PLANTING AREA IDENTIFIED SHALL BE FULLY PLANTED REGARDLESS IF VEGETATION IS EXISTING IN THE AREA.

Rev.	Date	Description
0	2021-10-21	ISSUED FOR BID

OAK ISLAND DUNE PLANTING PROJECT 2021/2022

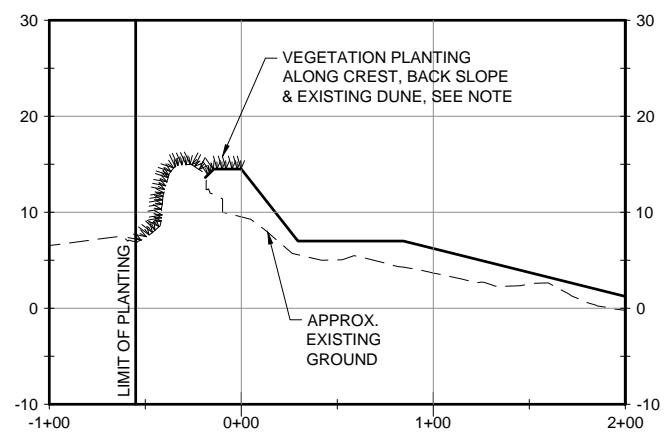
TYPICAL SECTION

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Reviewed by:	J. MARTIN	Dwn by:	SM	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS SHOWN	Per scale:	1:1 (0 SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4826

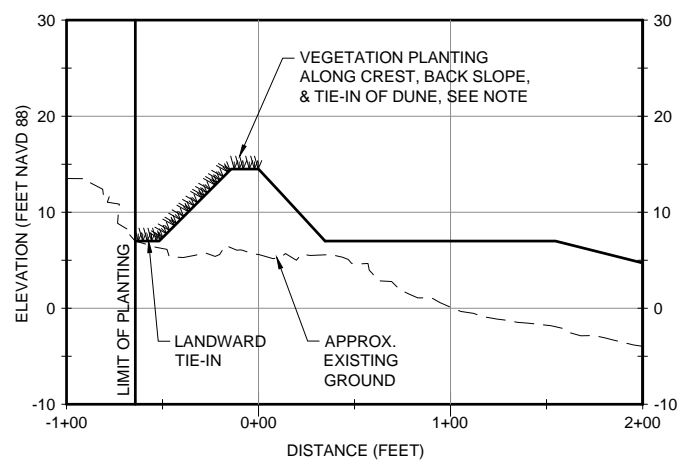
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Sheet Reference No.
C-300
INDEX: 4 OF 4



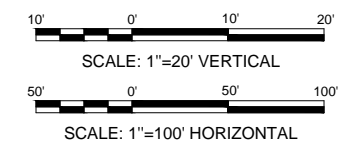
NOTE:
PLANTING SHALL OCCUR FROM SEAWARD CREST OF CONSTRUCTED DUNE TO LANDWARD TOE OF EXISTING DUNE.

A1
C-100
TYPICAL PLANTING SECTION TIE-IN TO EXISTING PUSHED DUNE
SCALE: AS SHOWN



NOTE:
PLANTING SHALL OCCUR FROM SEAWARD CREST TO LANDWARD TIE-IN OF CONSTRUCTED DUNE.

A3
C-100
TYPICAL PLANTING SECTION TIE-IN TO EXISTING GROUND
SCALE: AS NOTED

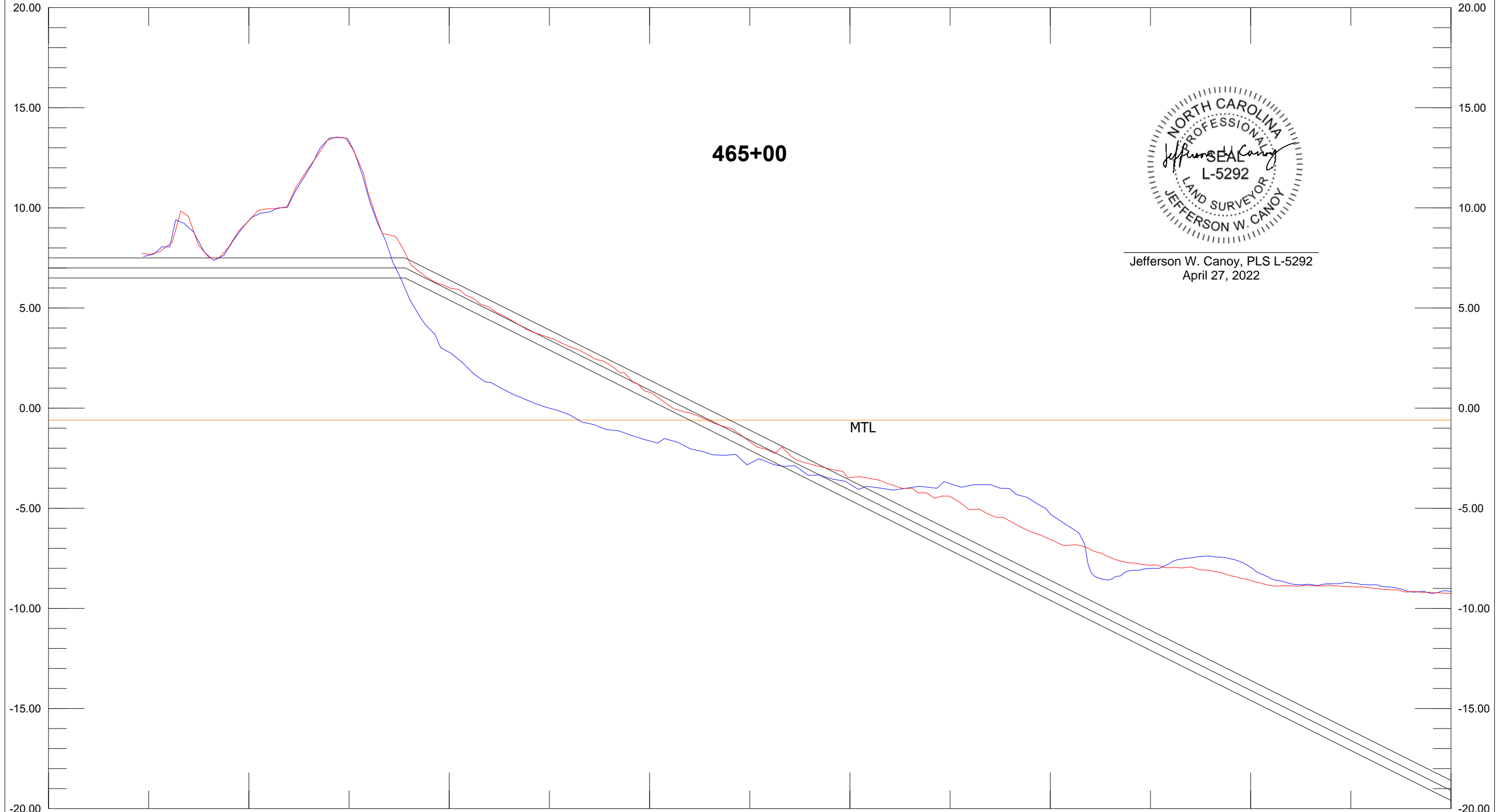


ISSUED FOR BID
ISSUED: 2021-10-21
NOT TO BE USED FOR CONSTRUCTION

Appendix B3:

Preconstruction and Post Construction Survey Profiles

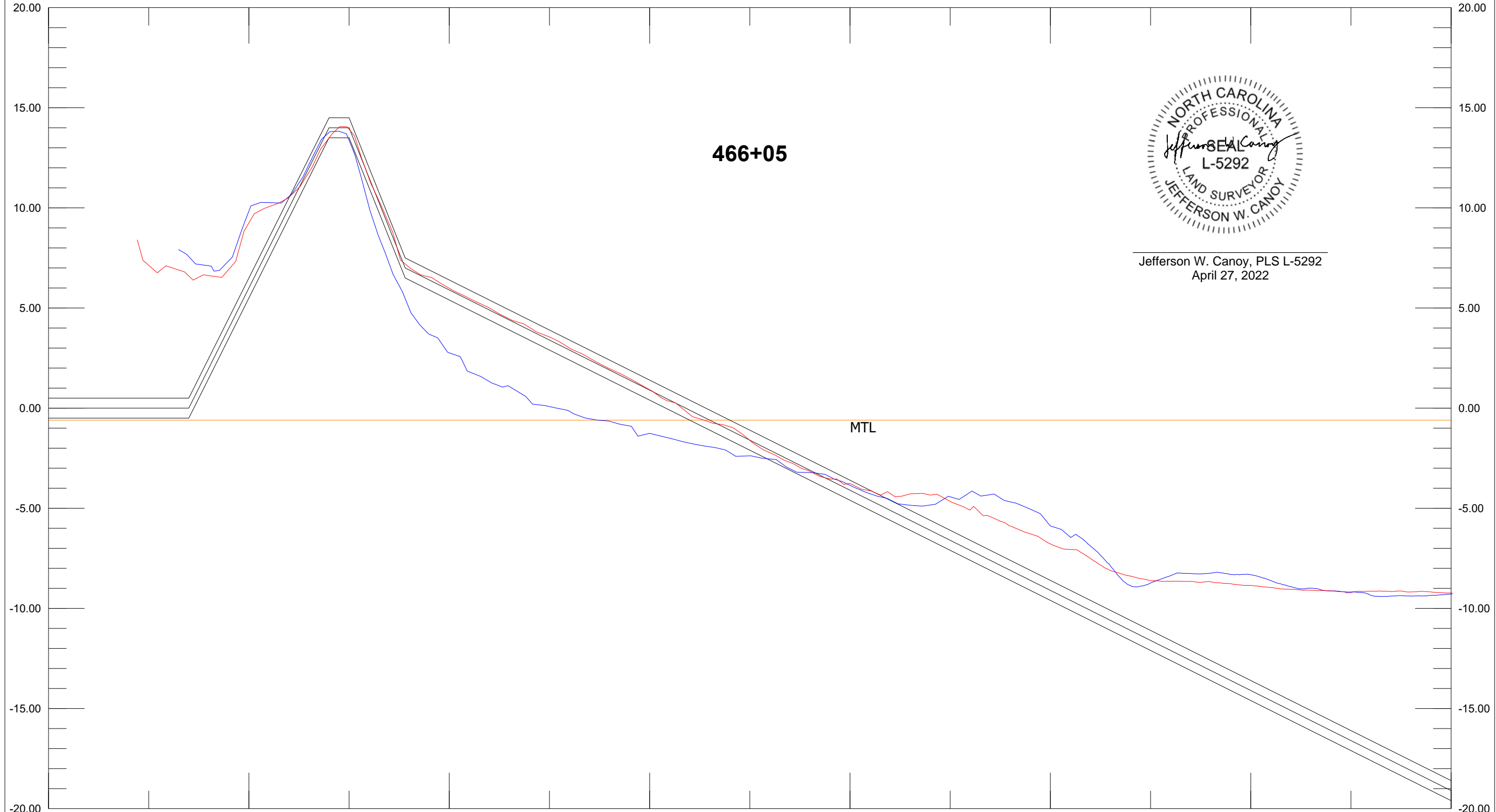
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Jefferson W. Canoy, PLS L-5292
April 27, 2022

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465+00 465+00 Depth 5.00 Ft:In

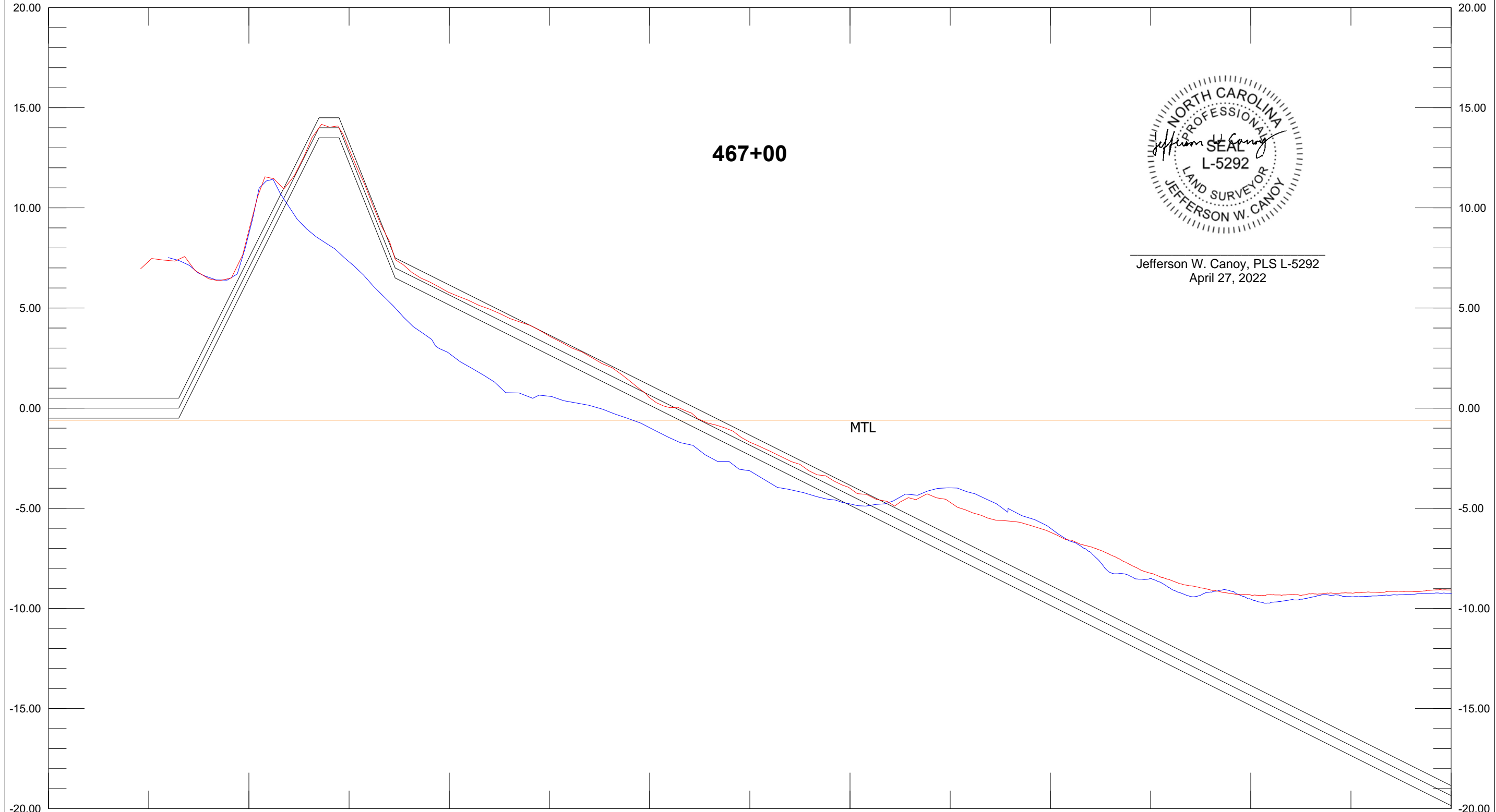
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Jefferson W. Canoy, PLS L-5292
April 27, 2022

Base Survey AD Template DBL 50.00 Ft:In
466+05 466+05 Depth 5.00 Ft:In

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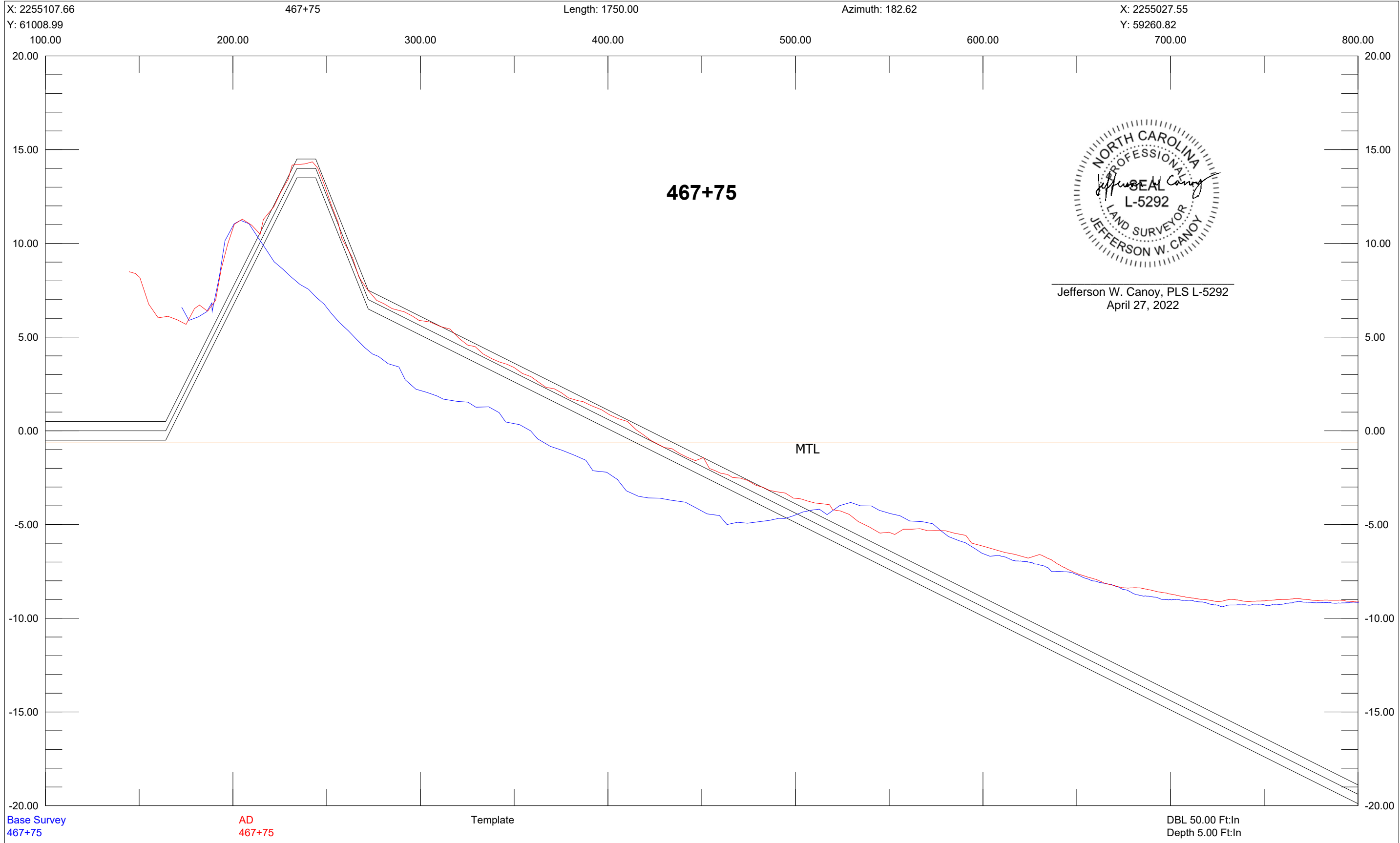


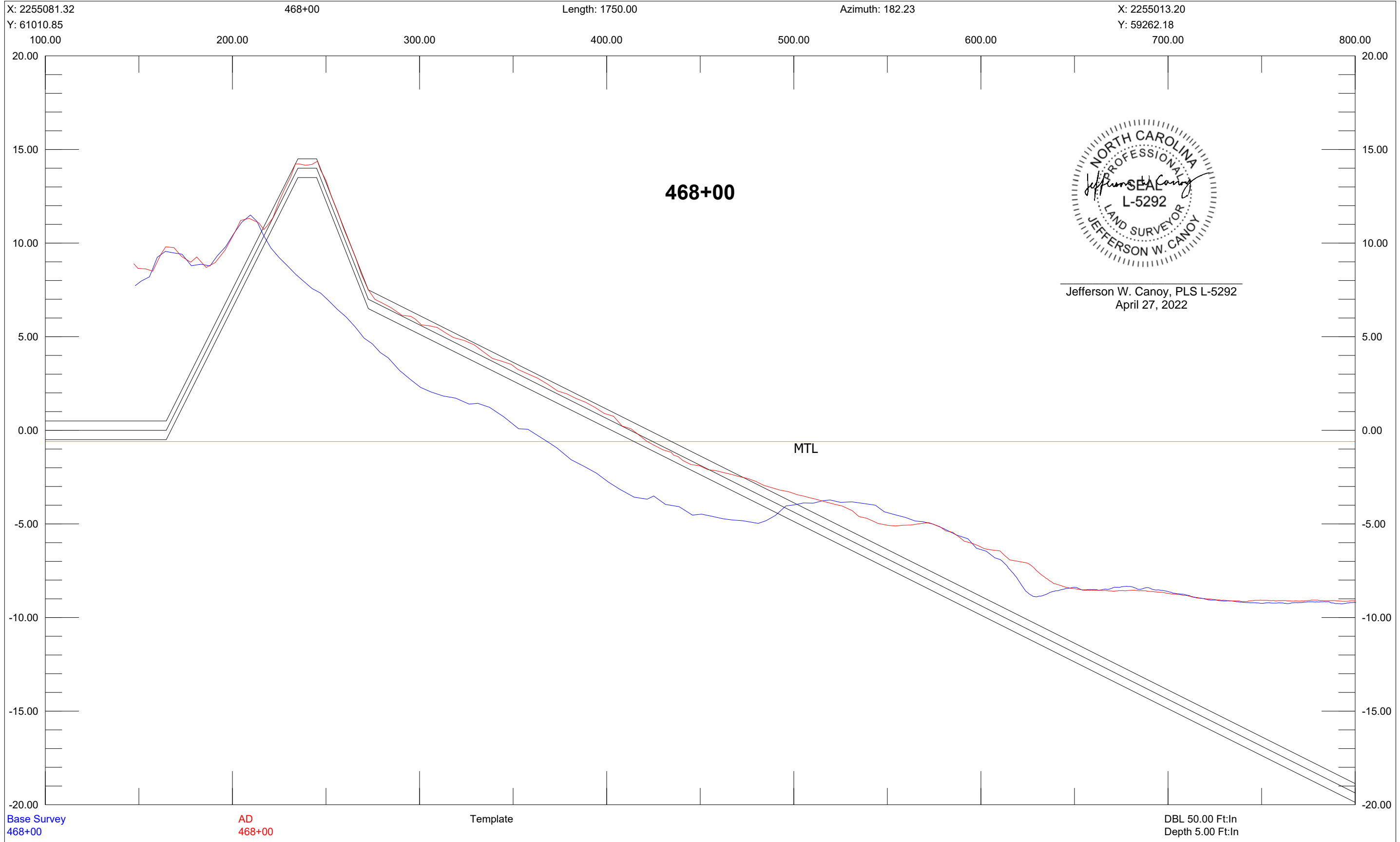
Jefferson W. Canoy, PLS L-5292
April 27, 2022

467+00

MTL

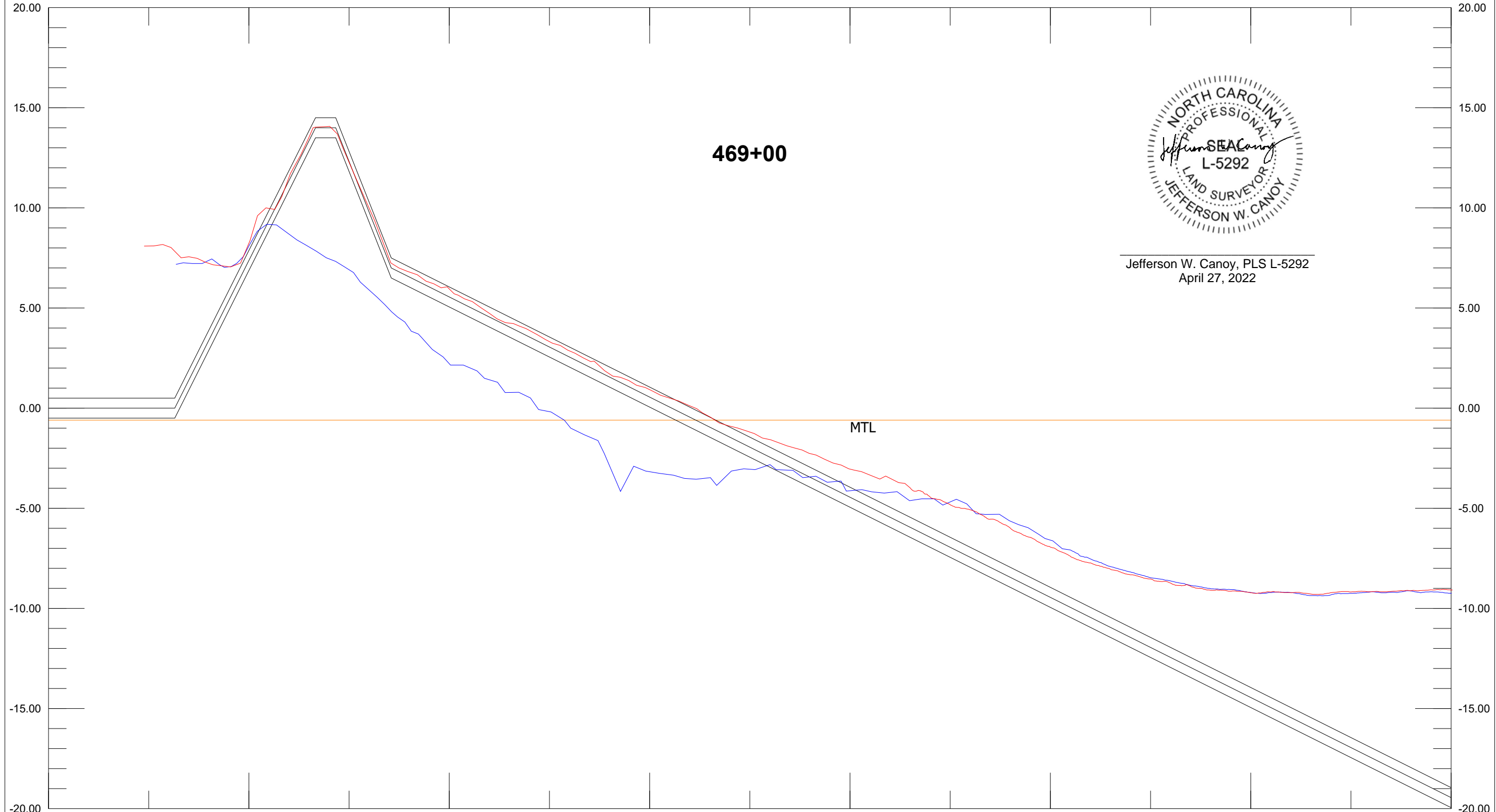
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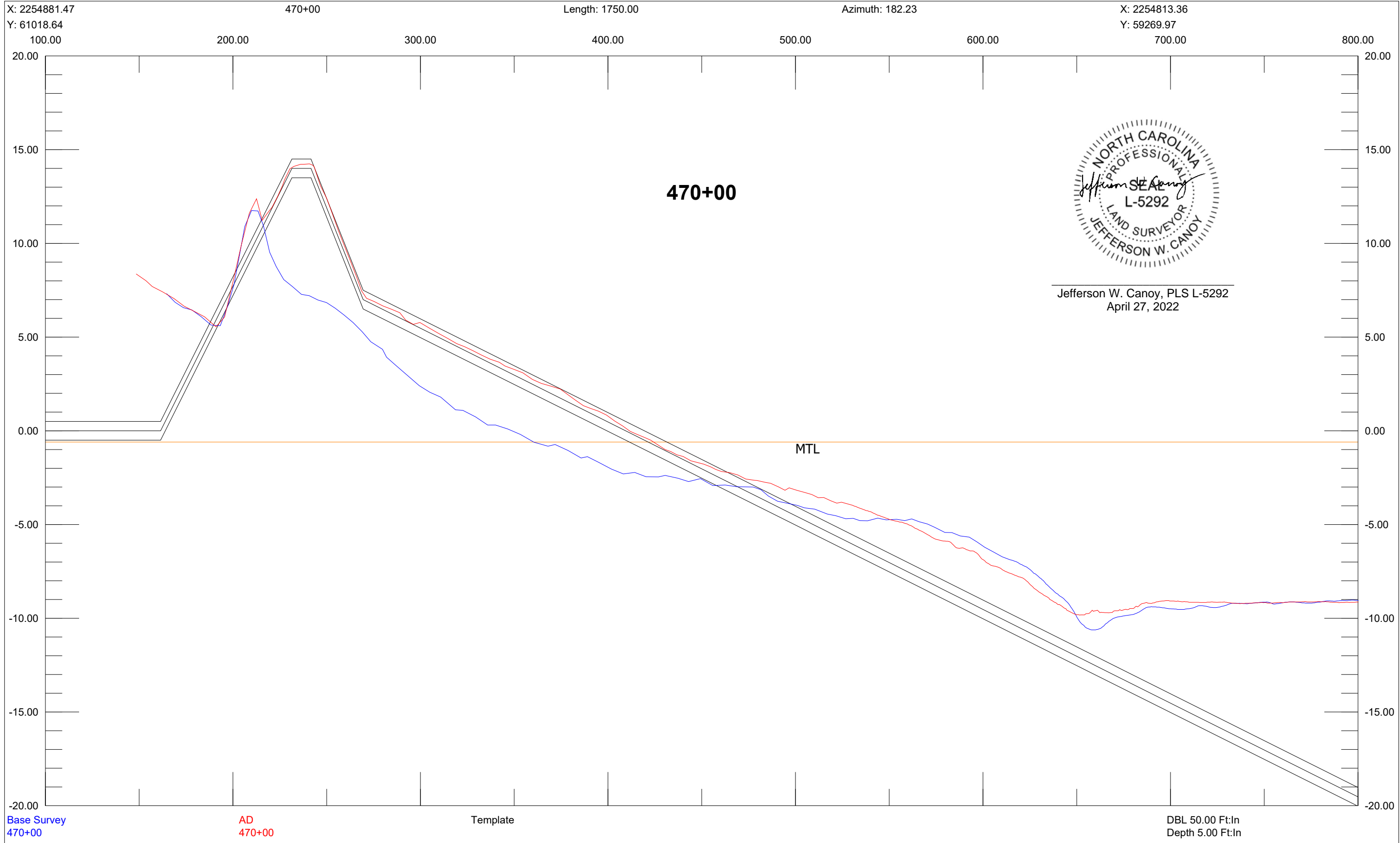
Jefferson W. Canoy, PLS L-5292
 April 27, 2022

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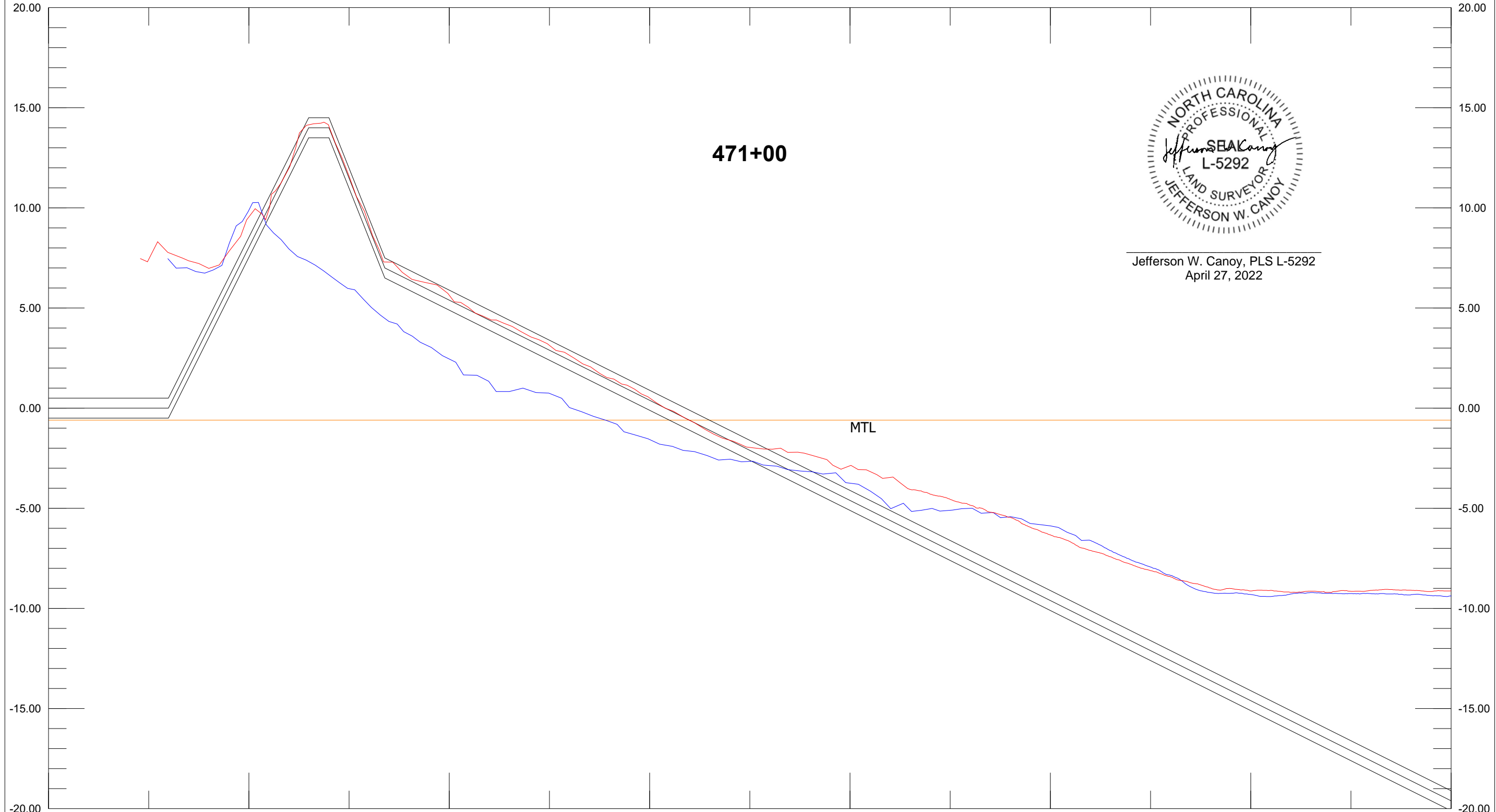


Jefferson W. Canoy, PLS L-5292
April 27, 2022

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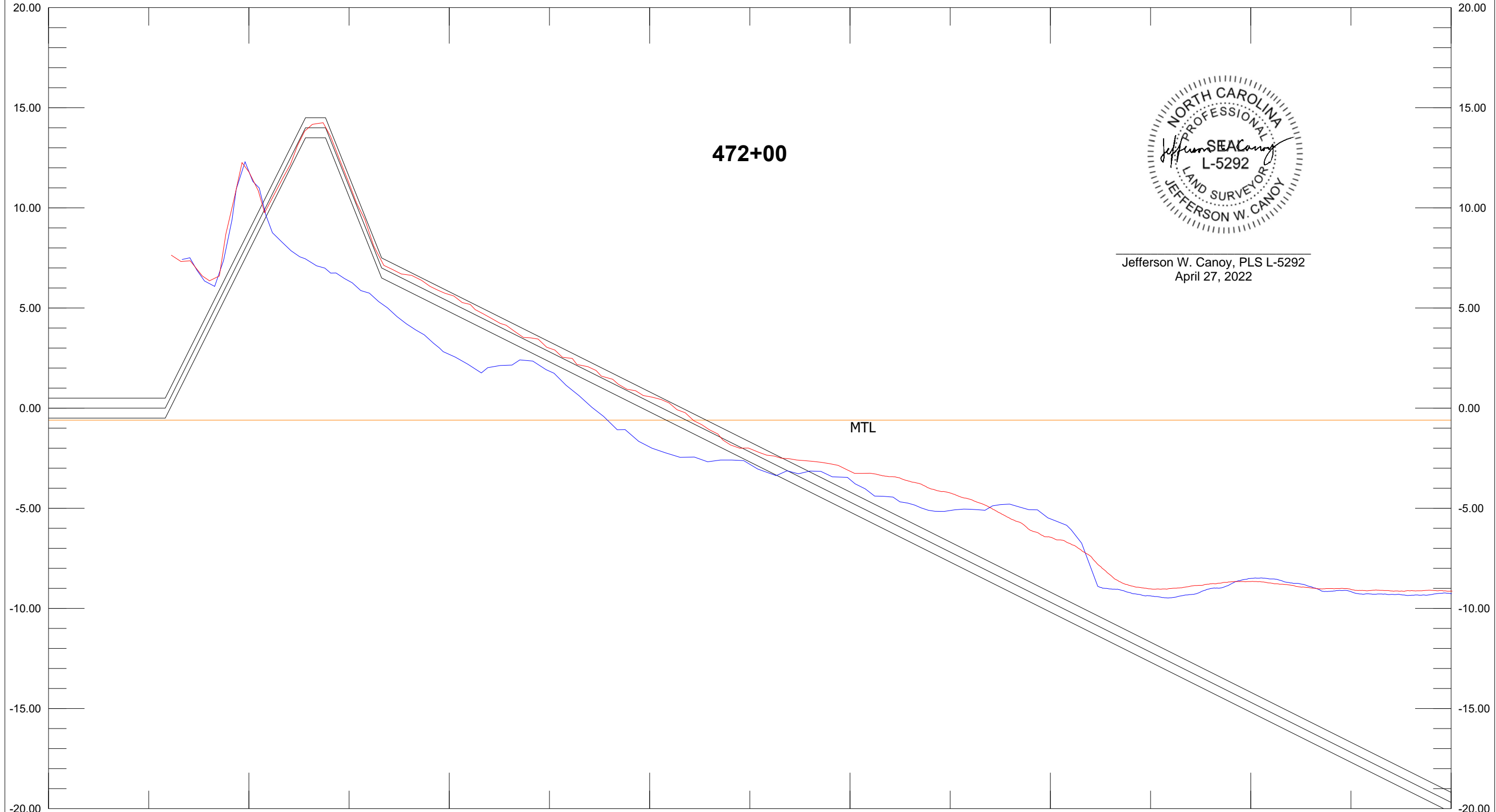
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April 27, 2022

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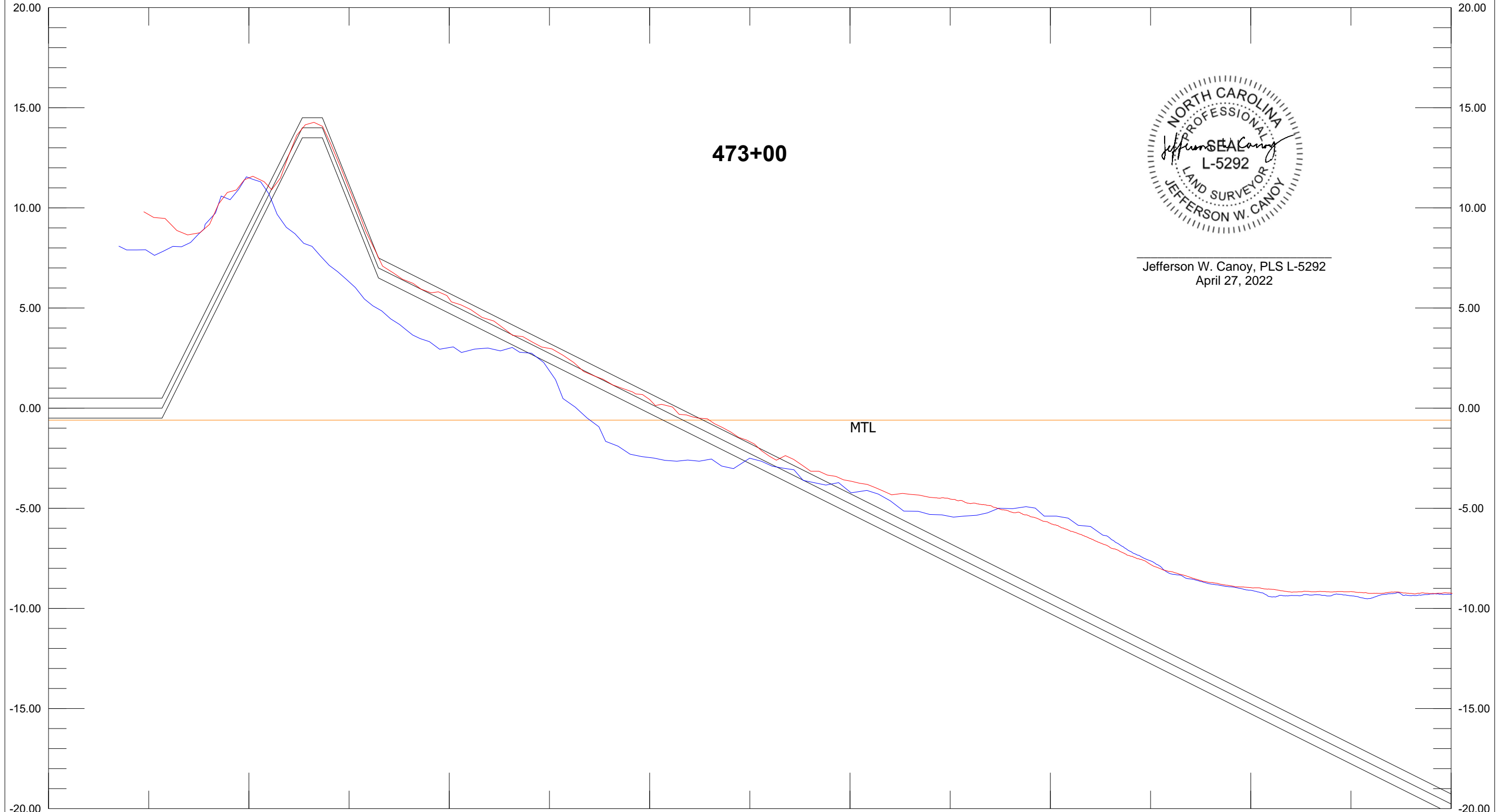
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April 27, 2022

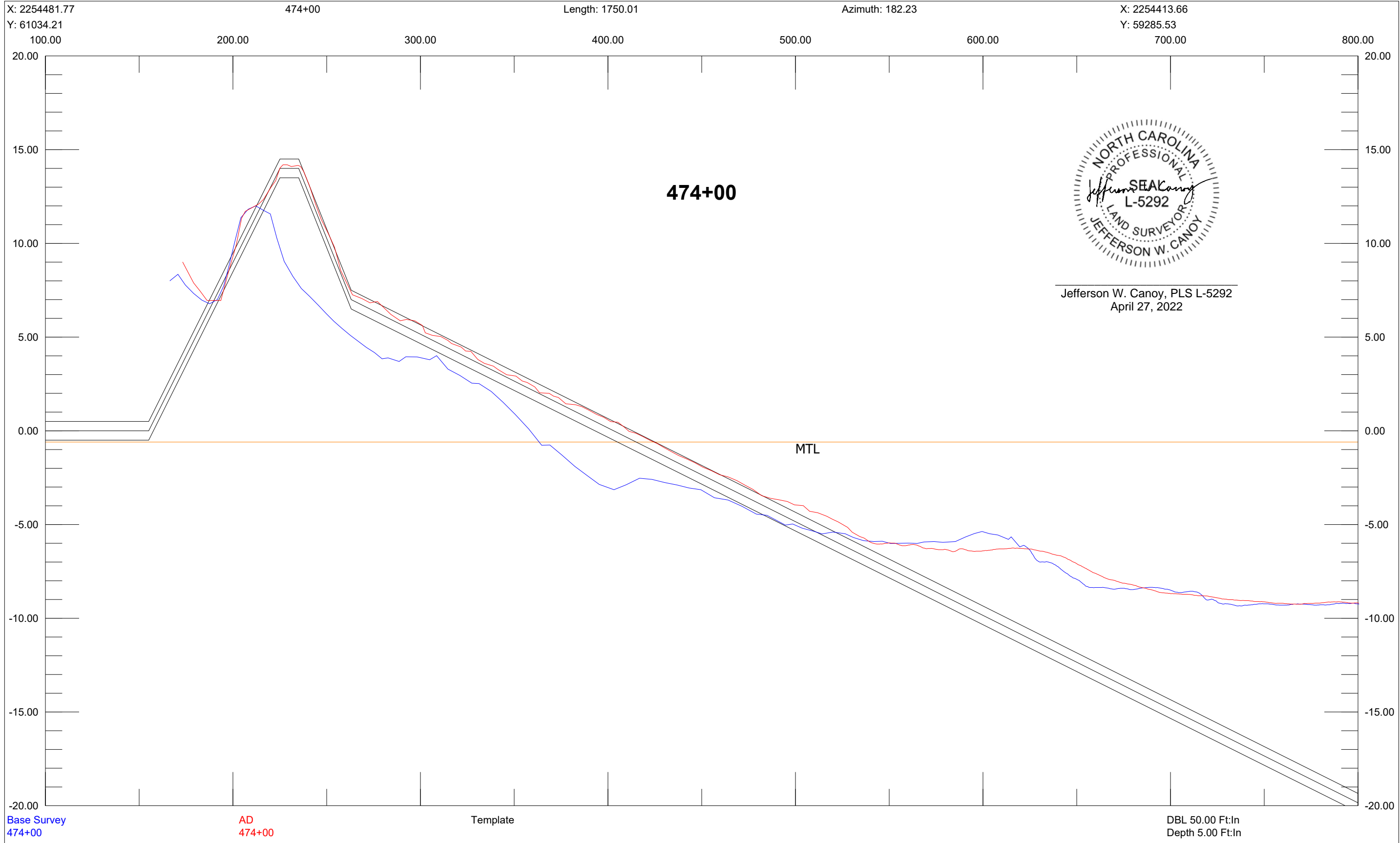
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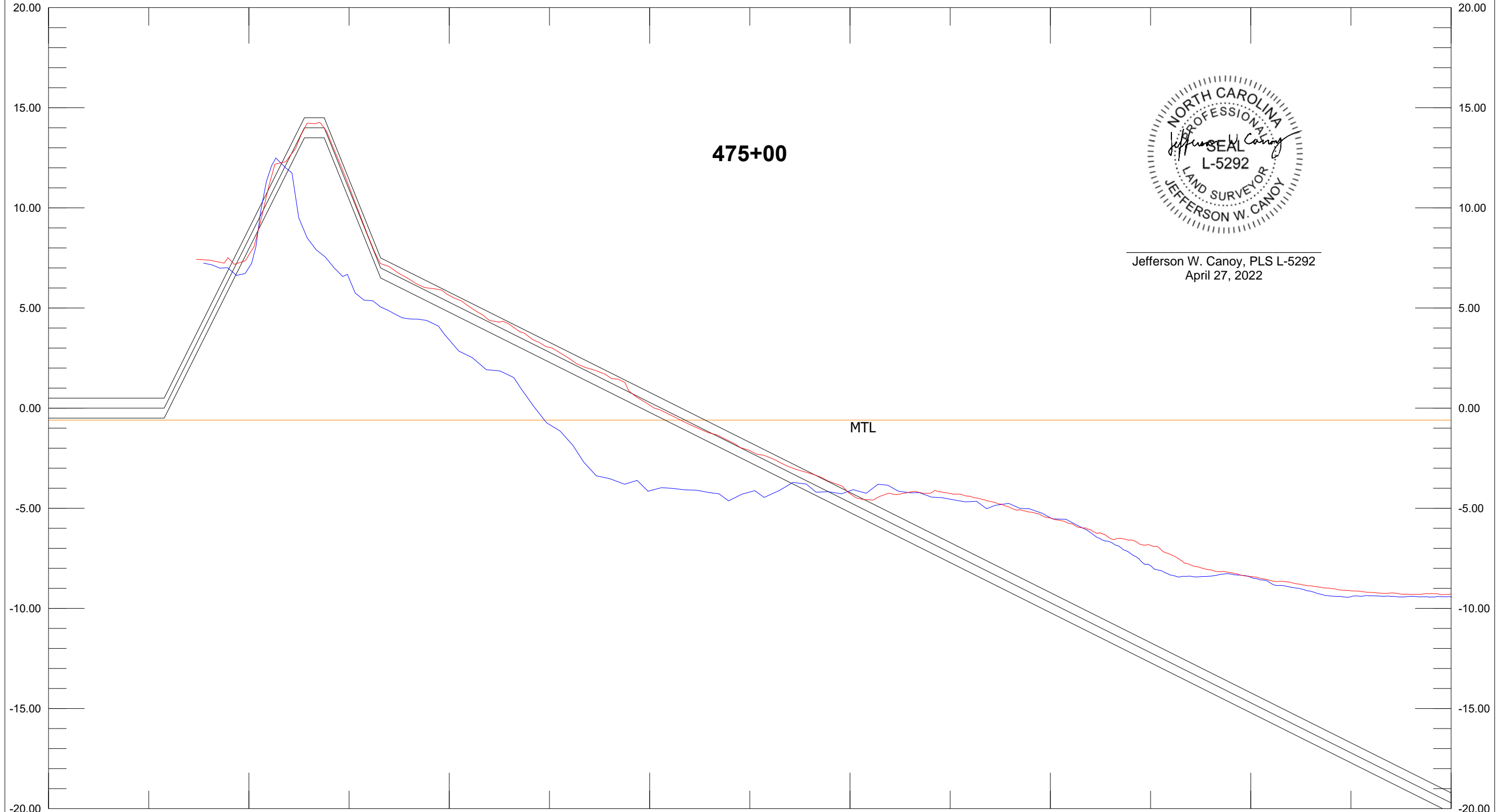


Jefferson W. Canoy, PLS L-5292
April 27, 2022

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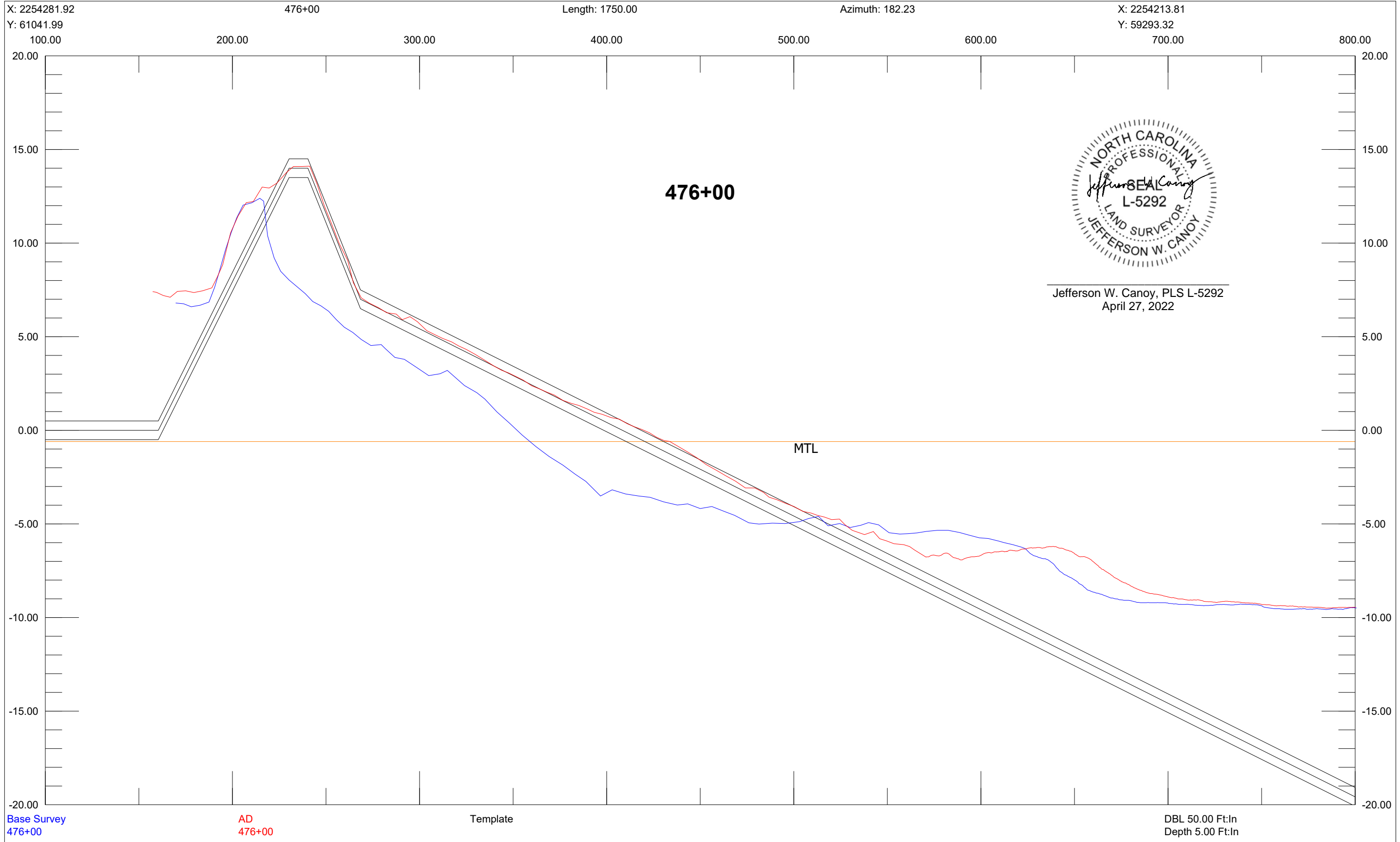


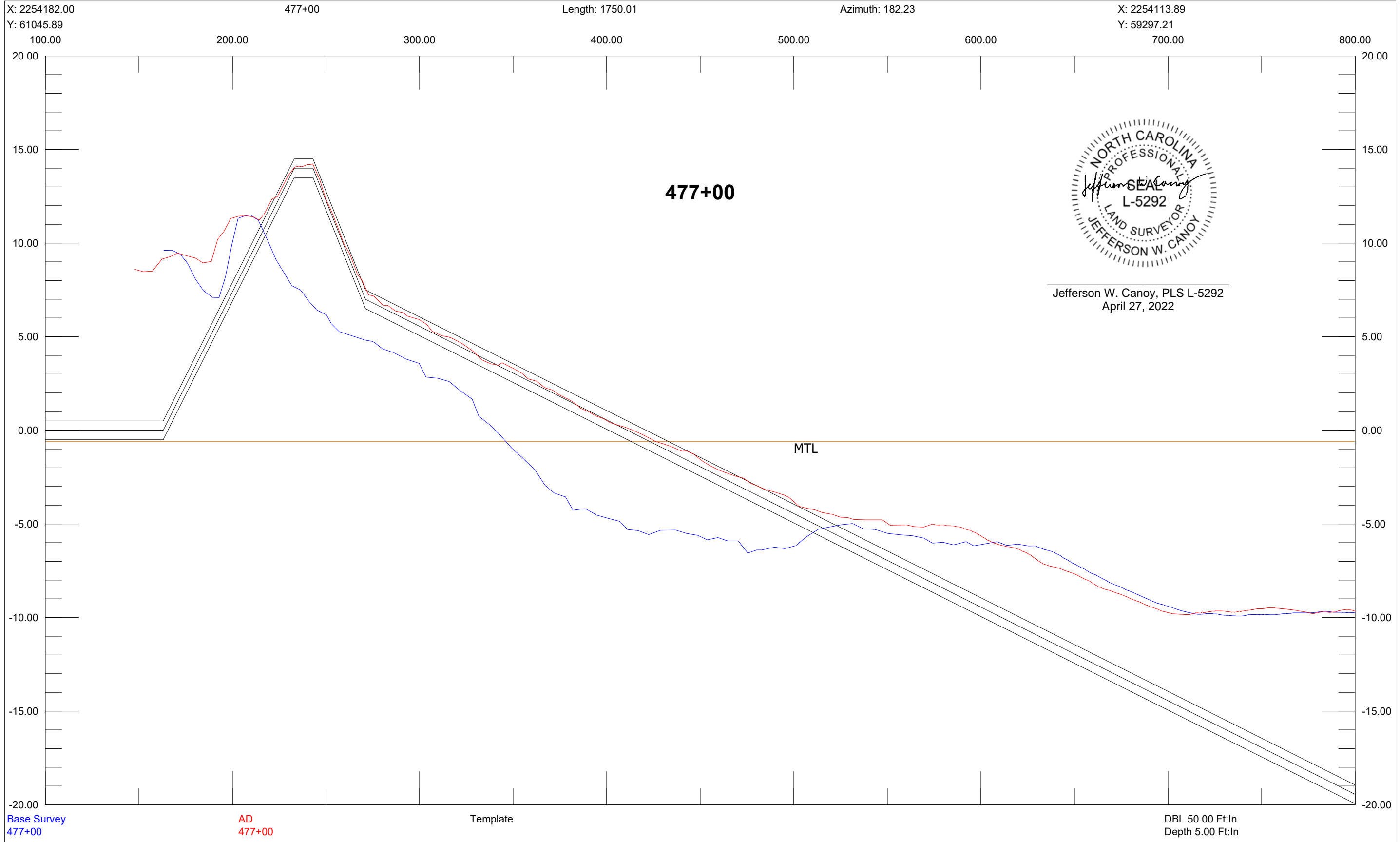
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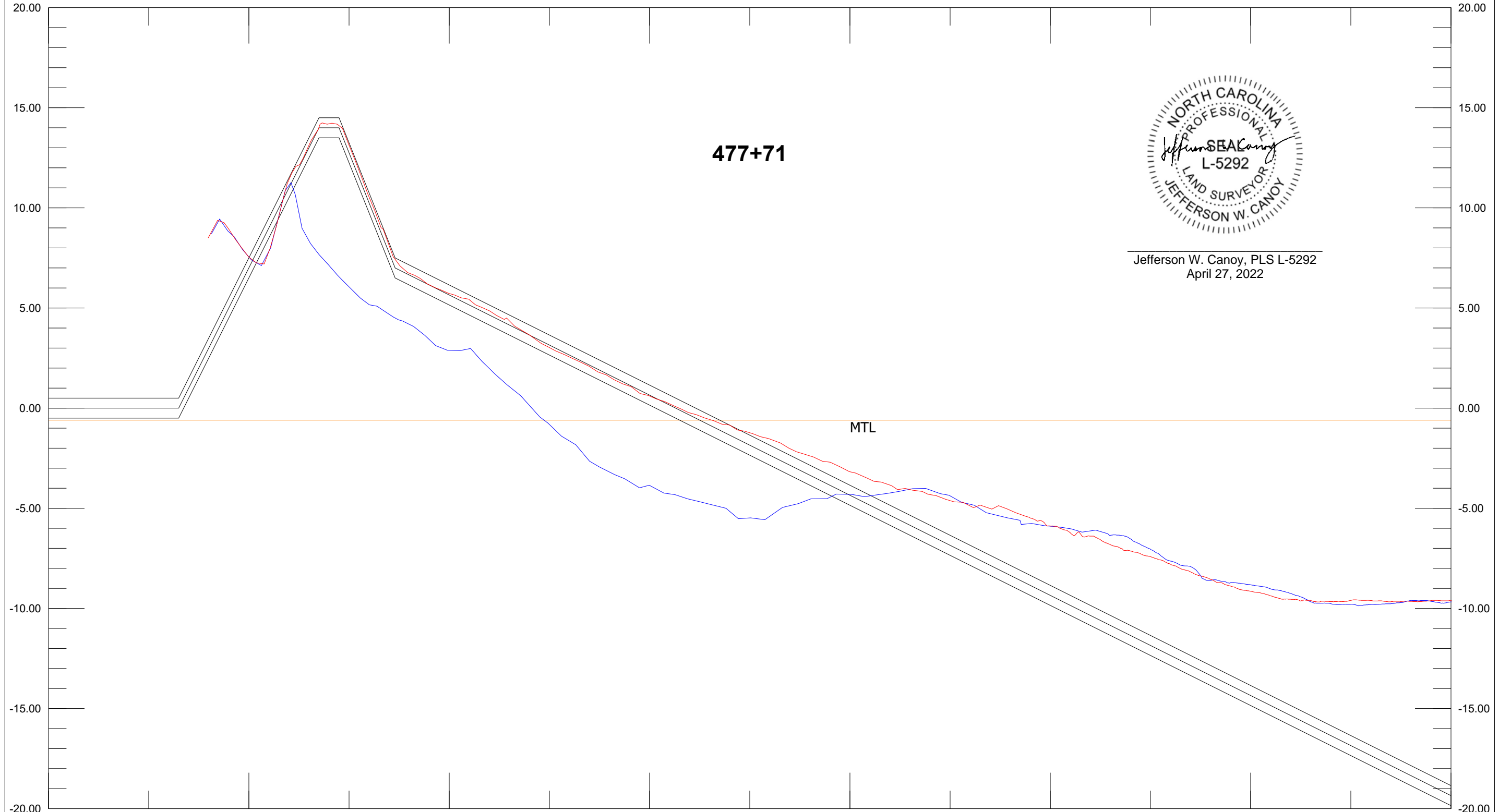
Jefferson W. Canoy, PLS L-5292
April 27, 2022

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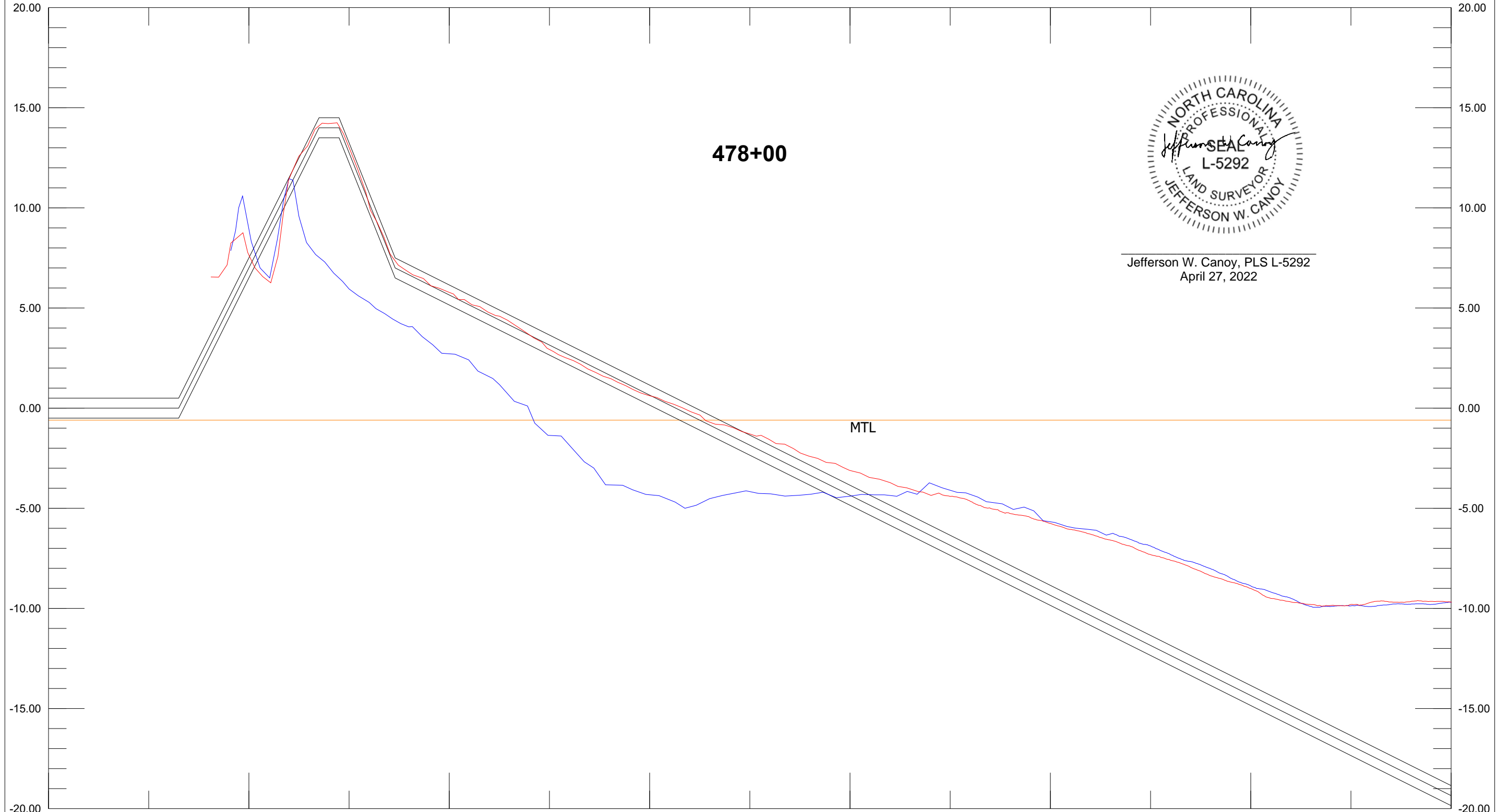


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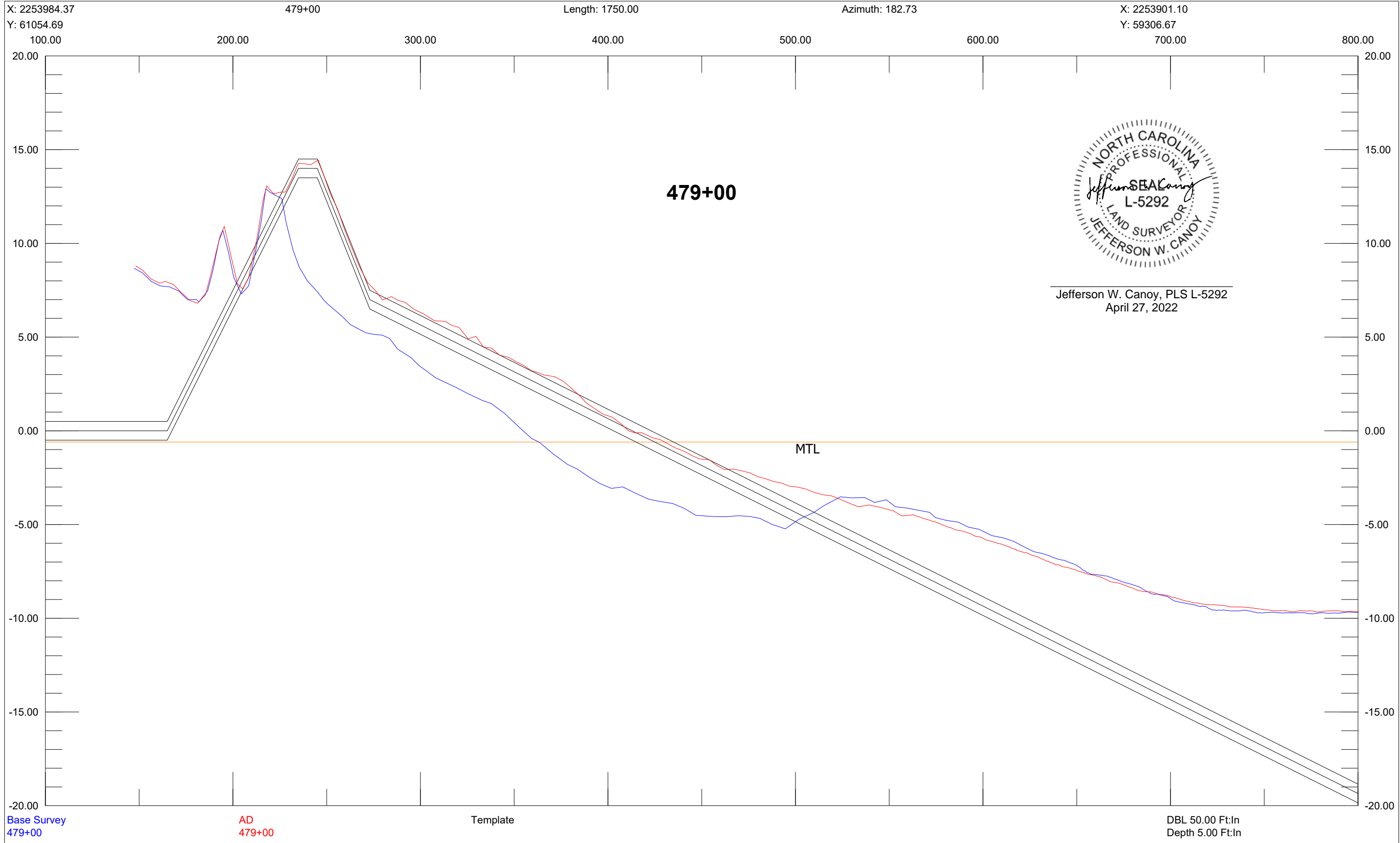
Jefferson W. Canoy, PLS L-5292
April 27, 2022

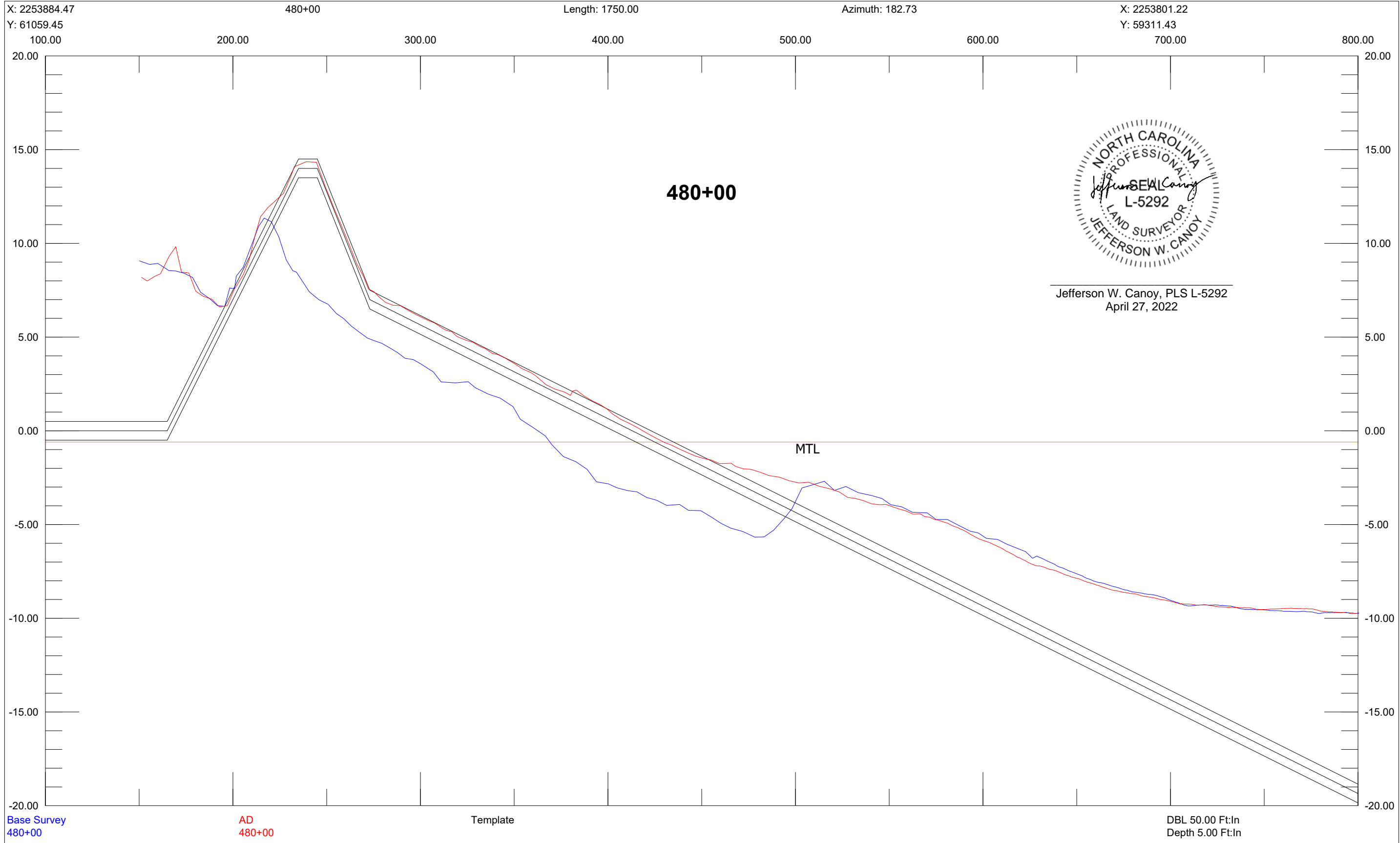
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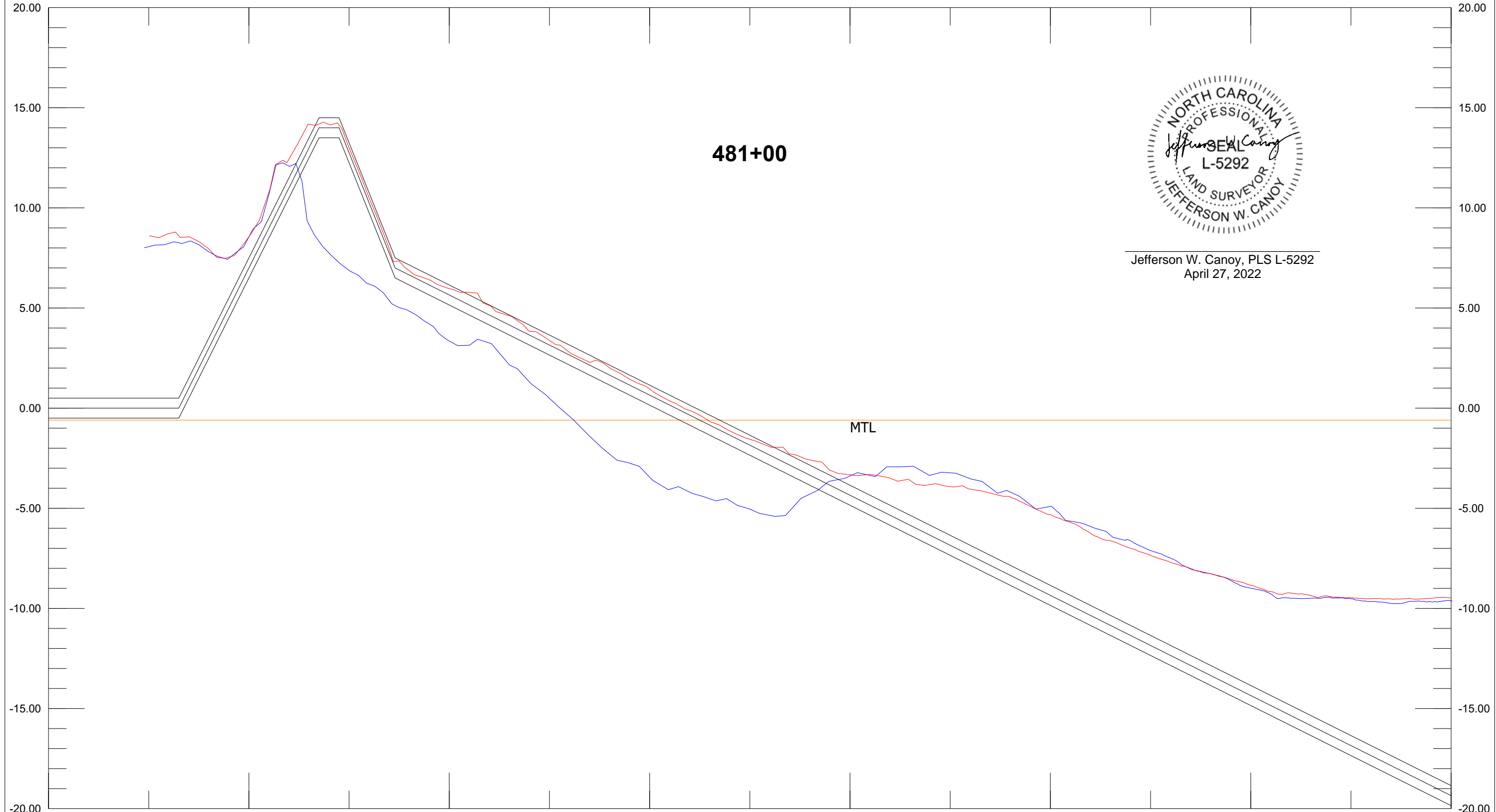
Jefferson W. Canoy, PLS L-5292
April 27, 2022

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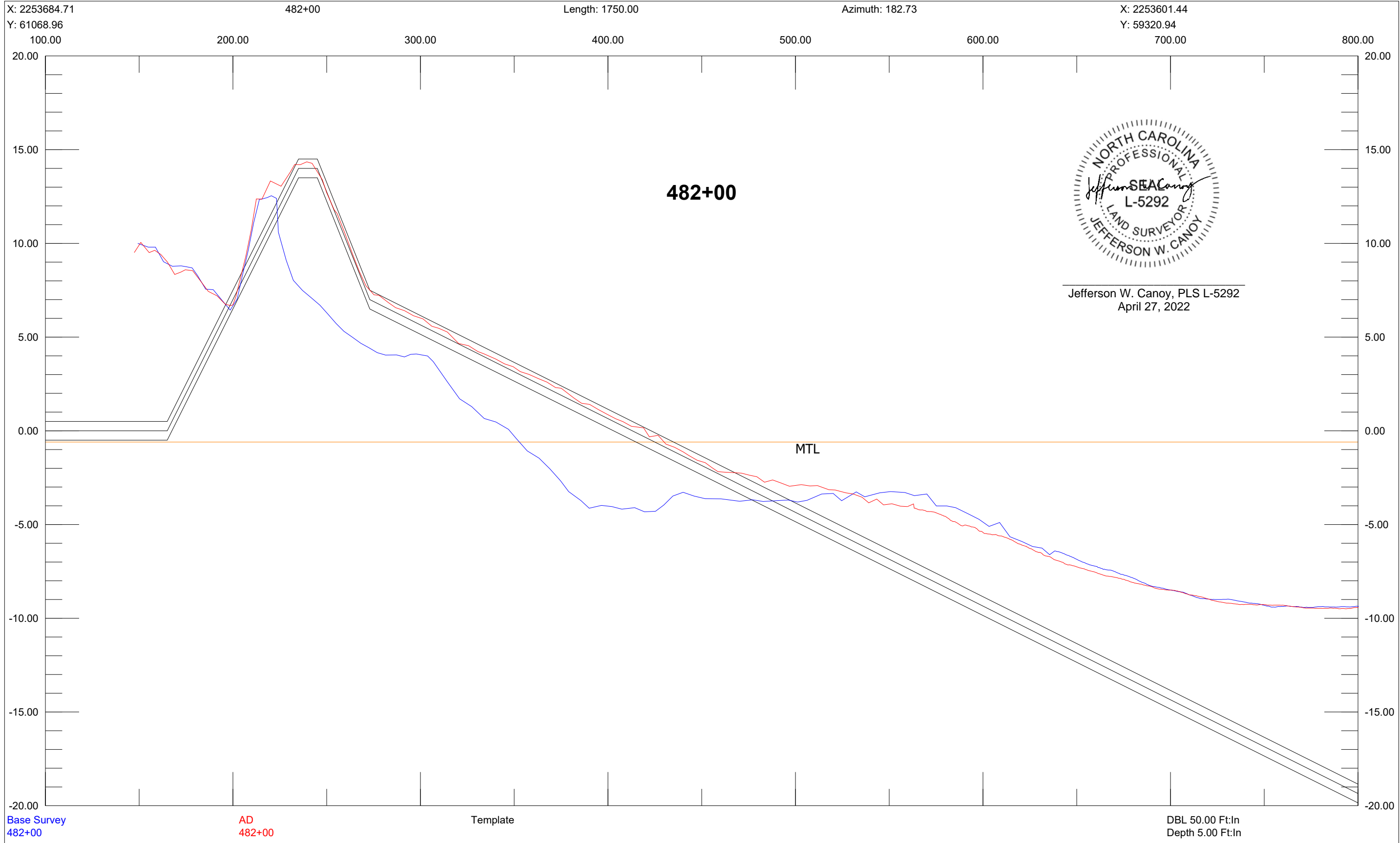


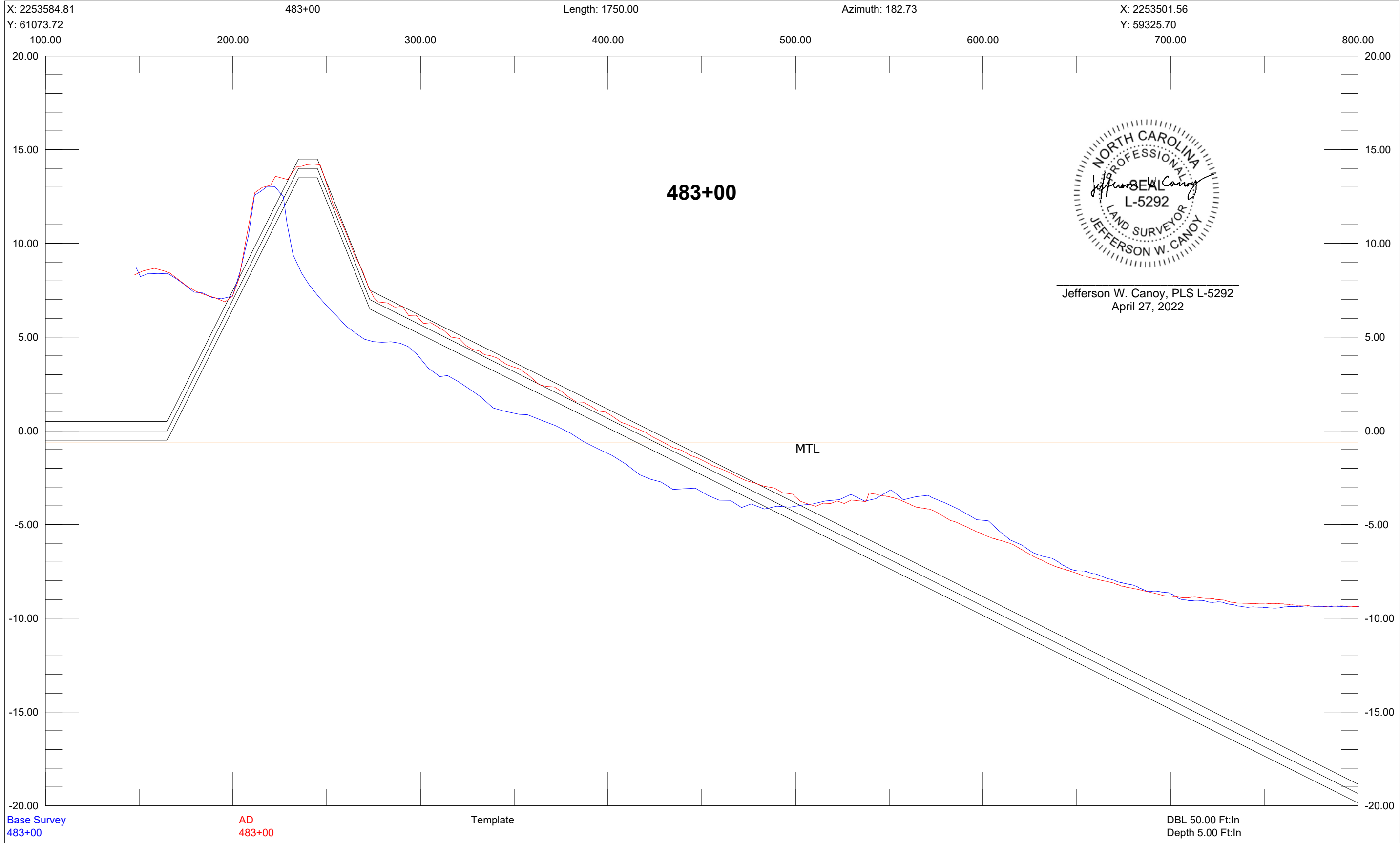
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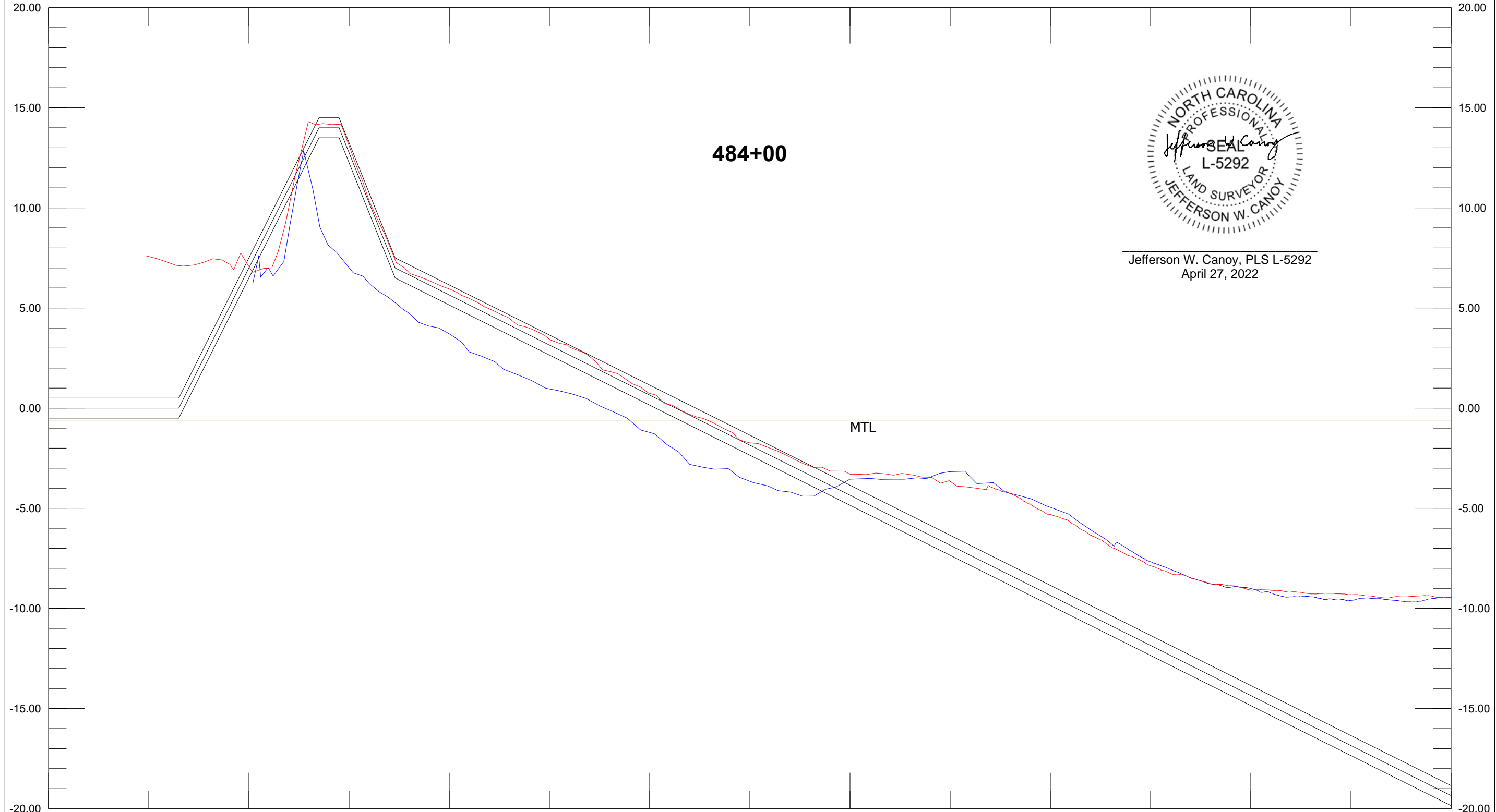
Jefferson W. Canoy, PLS L-5292
April 27, 2022

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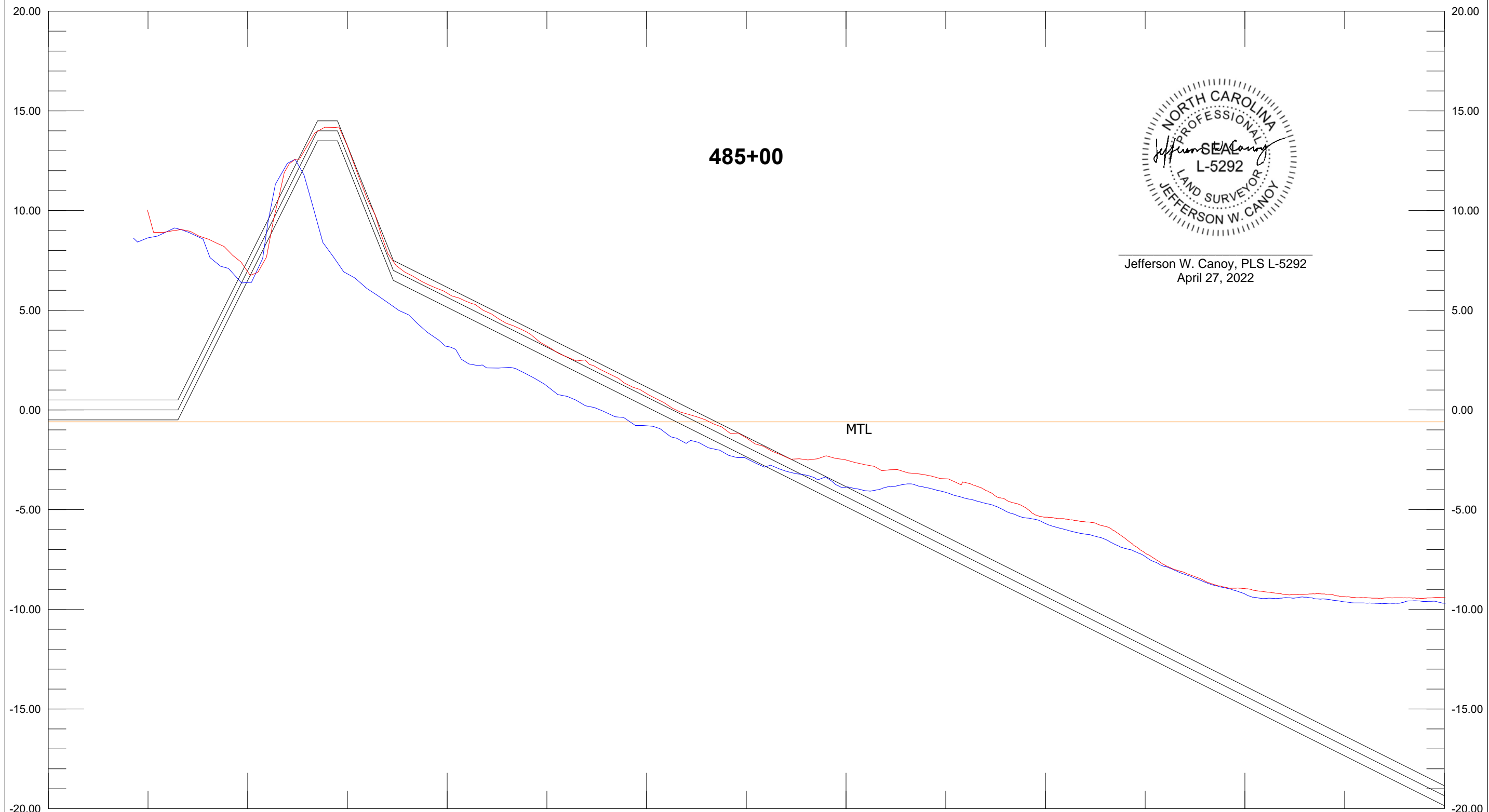
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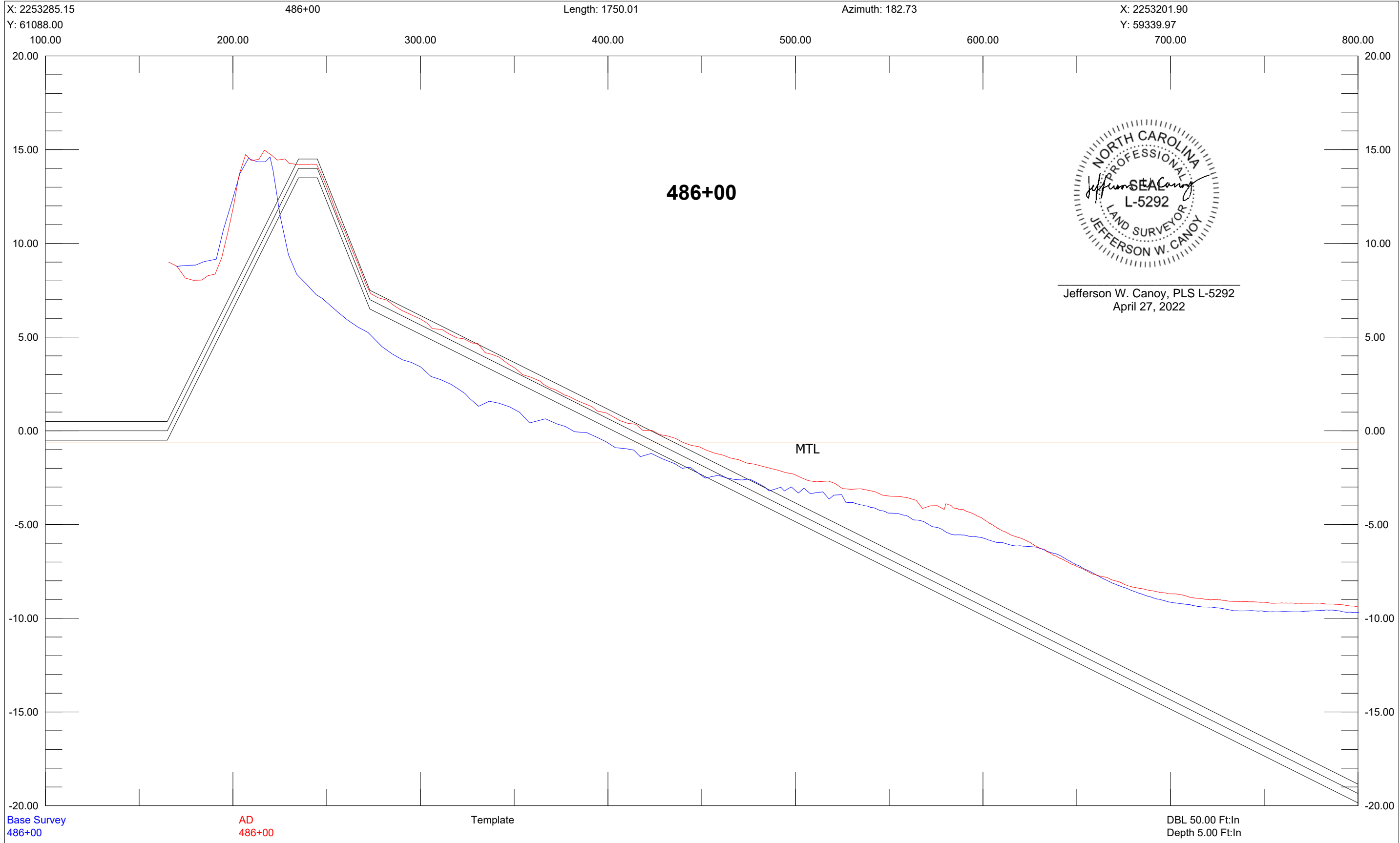
Jefferson W. Canoy, PLS L-5292
April 27, 2022

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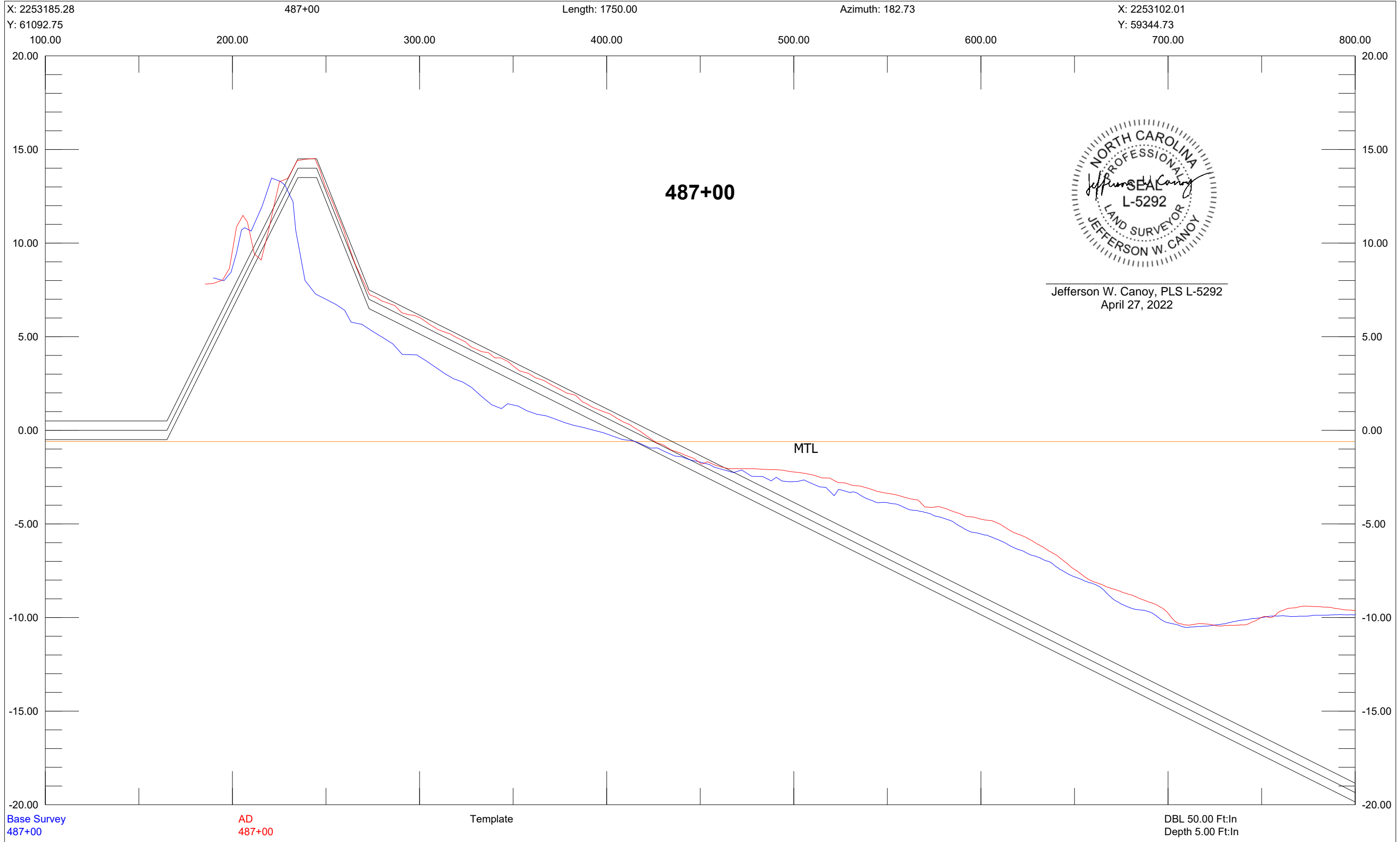
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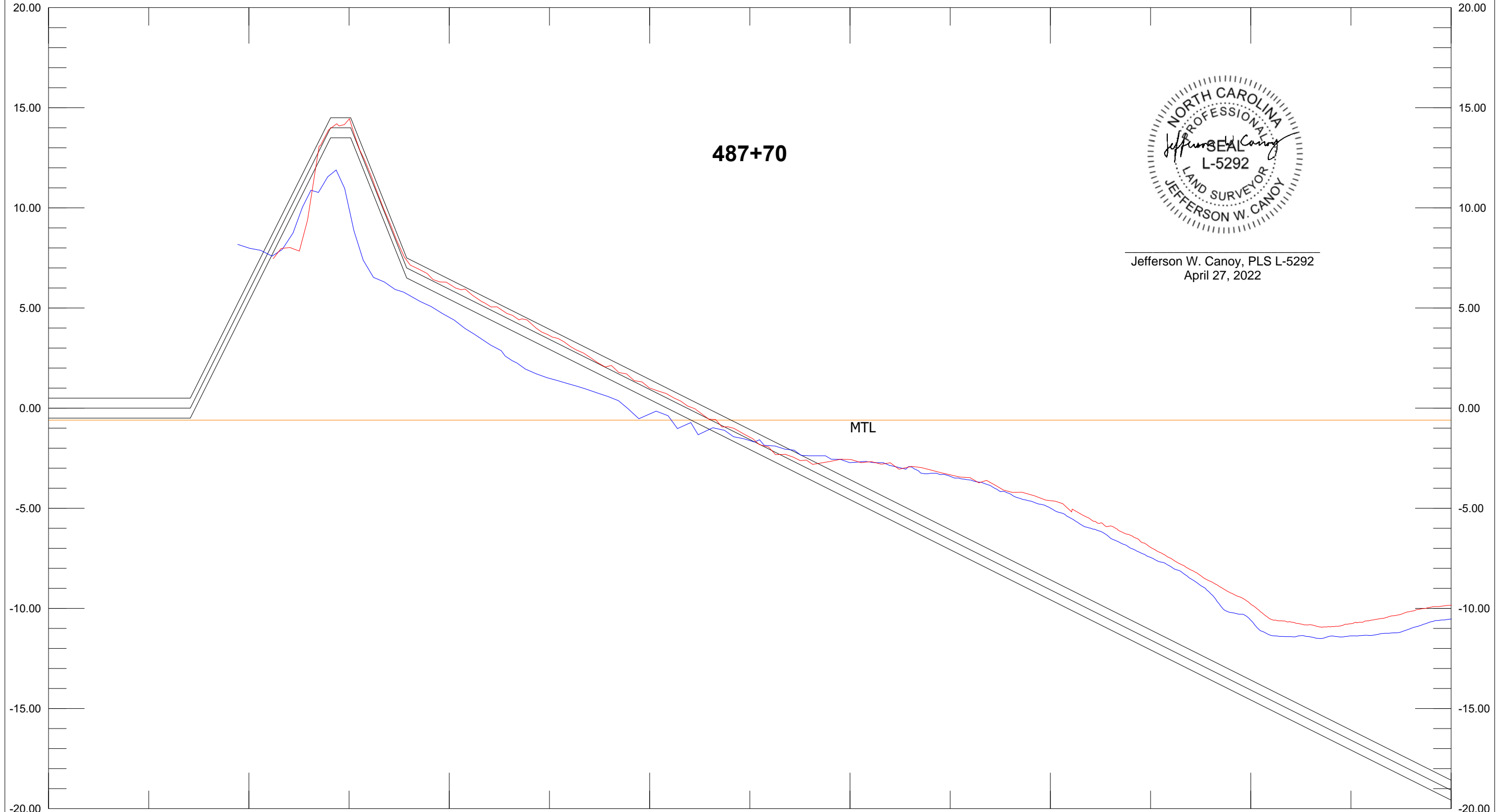
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Jefferson W. Canoy, PLS L-5292
 April 27, 2022



X: 2253106.68 487+70 Length: 1750.00 Azimuth: 180.67 X: 2253086.25
Y: 61097.11 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59347.23



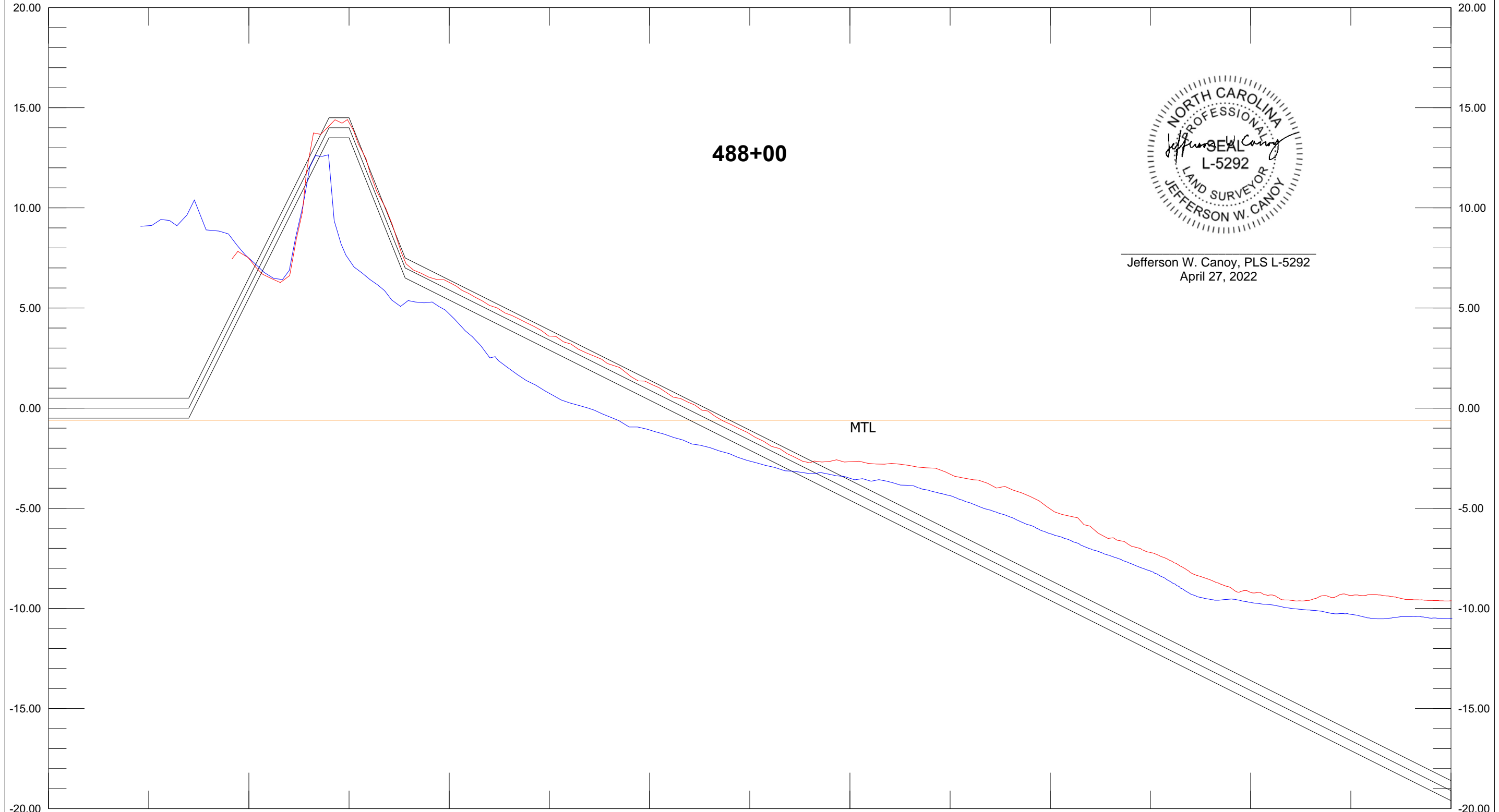
487+70



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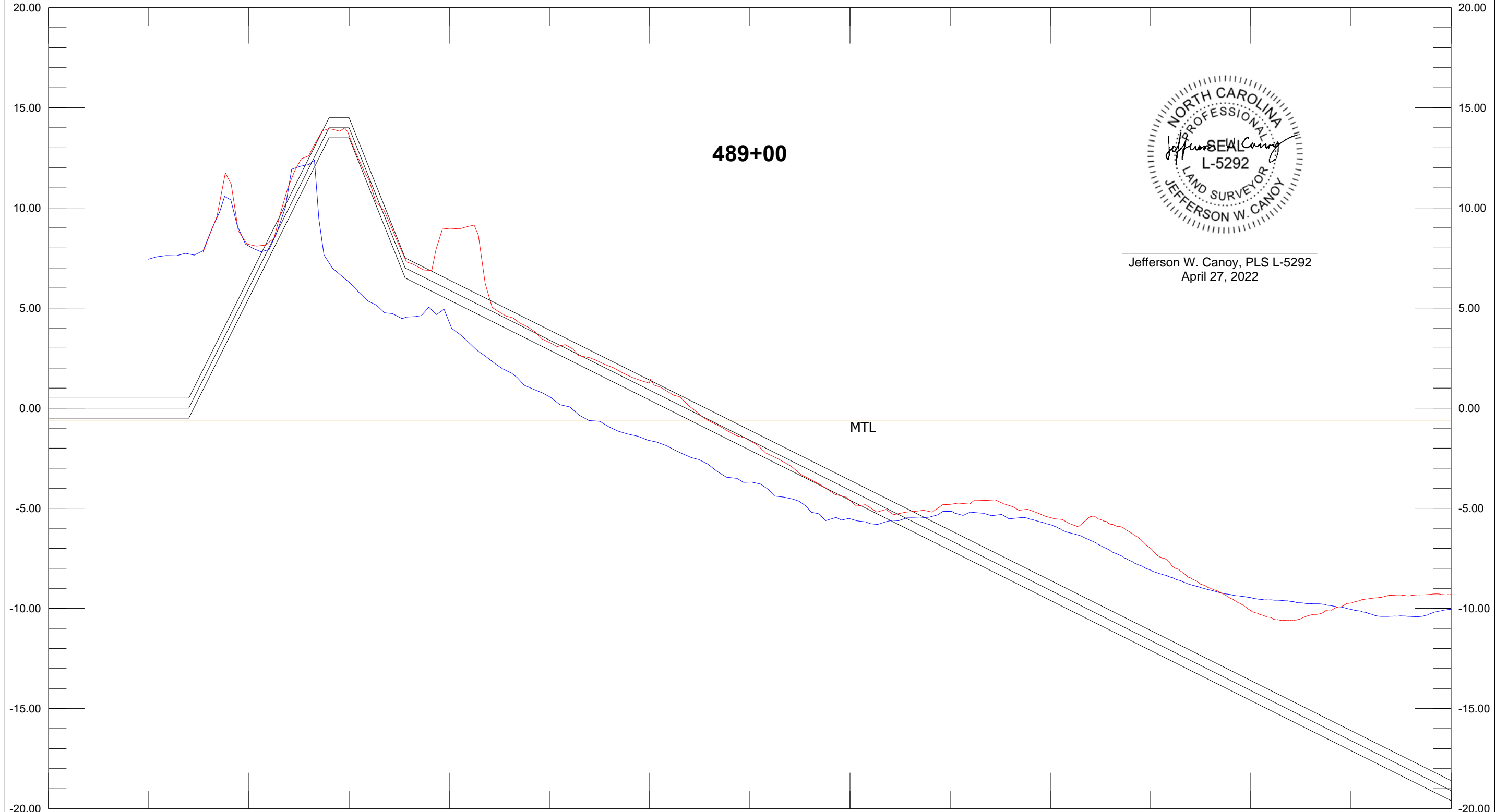
Base Survey 487+70 AD 487+70 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

X: 2253074.38 488+00 Length: 1750.00 Azimuth: 180.21 X: 2253067.91
Y: 61096.46 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59346.47



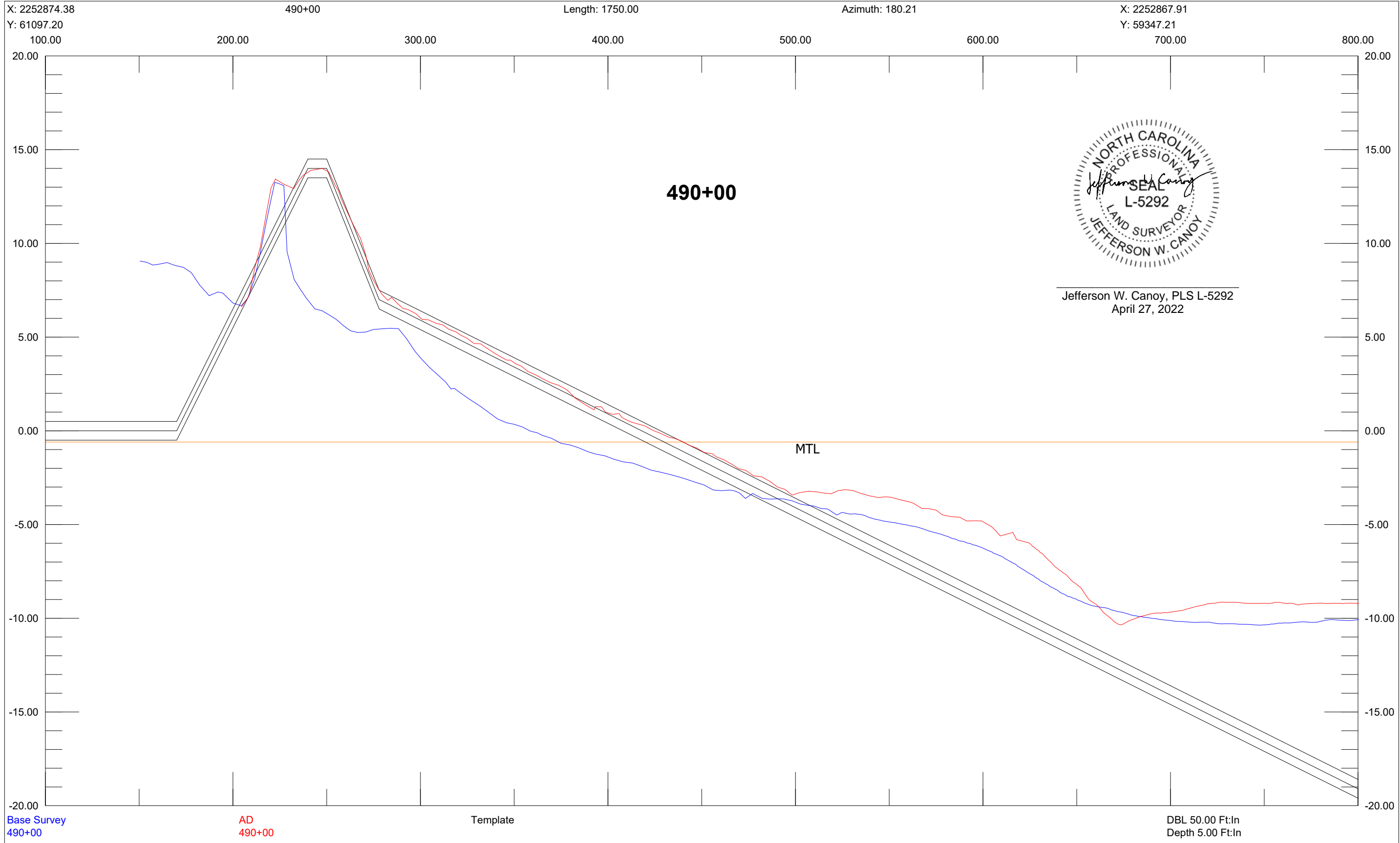
Base Survey AD Template DBL 50.00 Ft:In
488+00 488+00 Depth 5.00 Ft:In

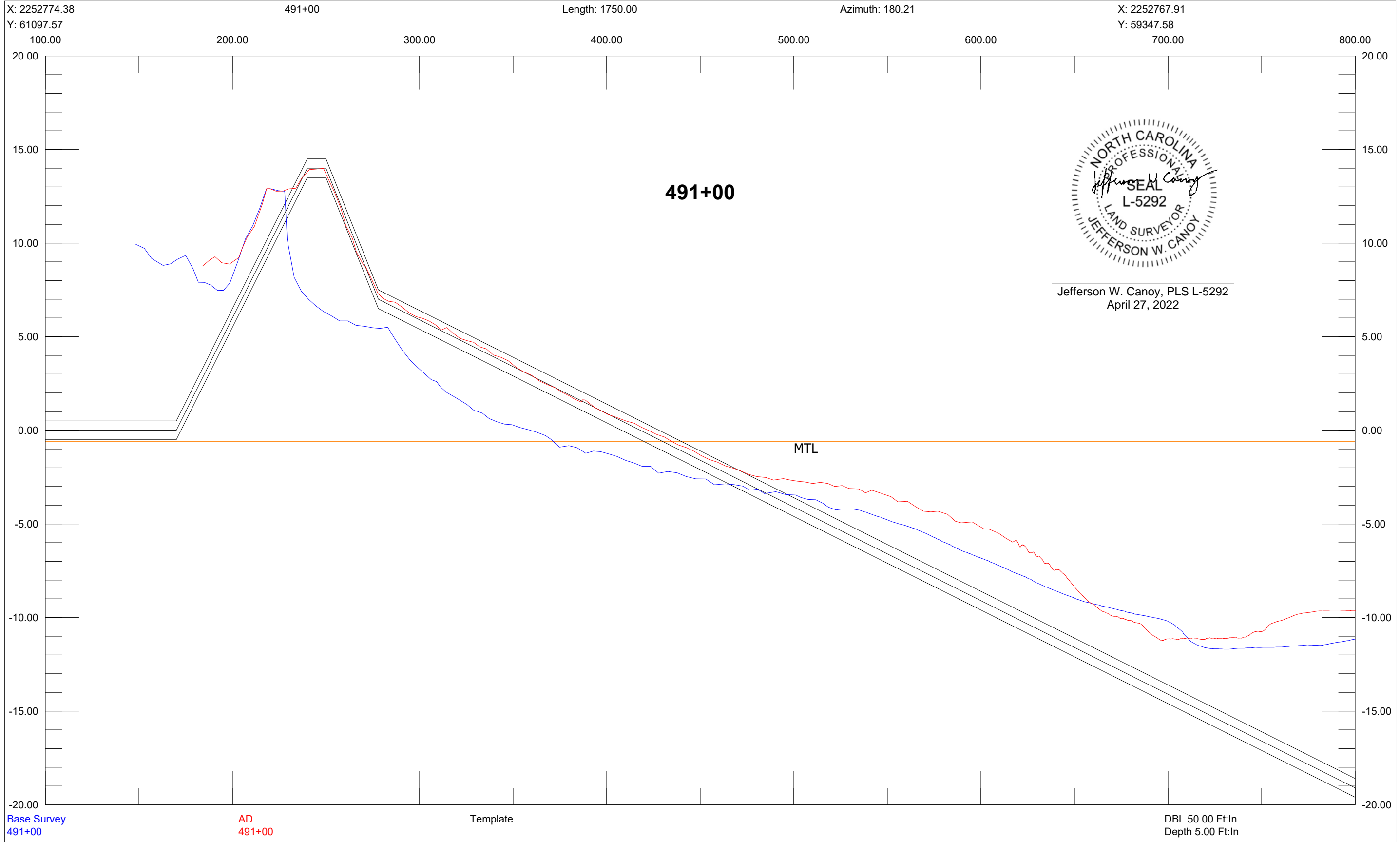
X: 2252974.38 489+00 Length: 1750.00 Azimuth: 180.21 X: 2252967.91
Y: 61096.83 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



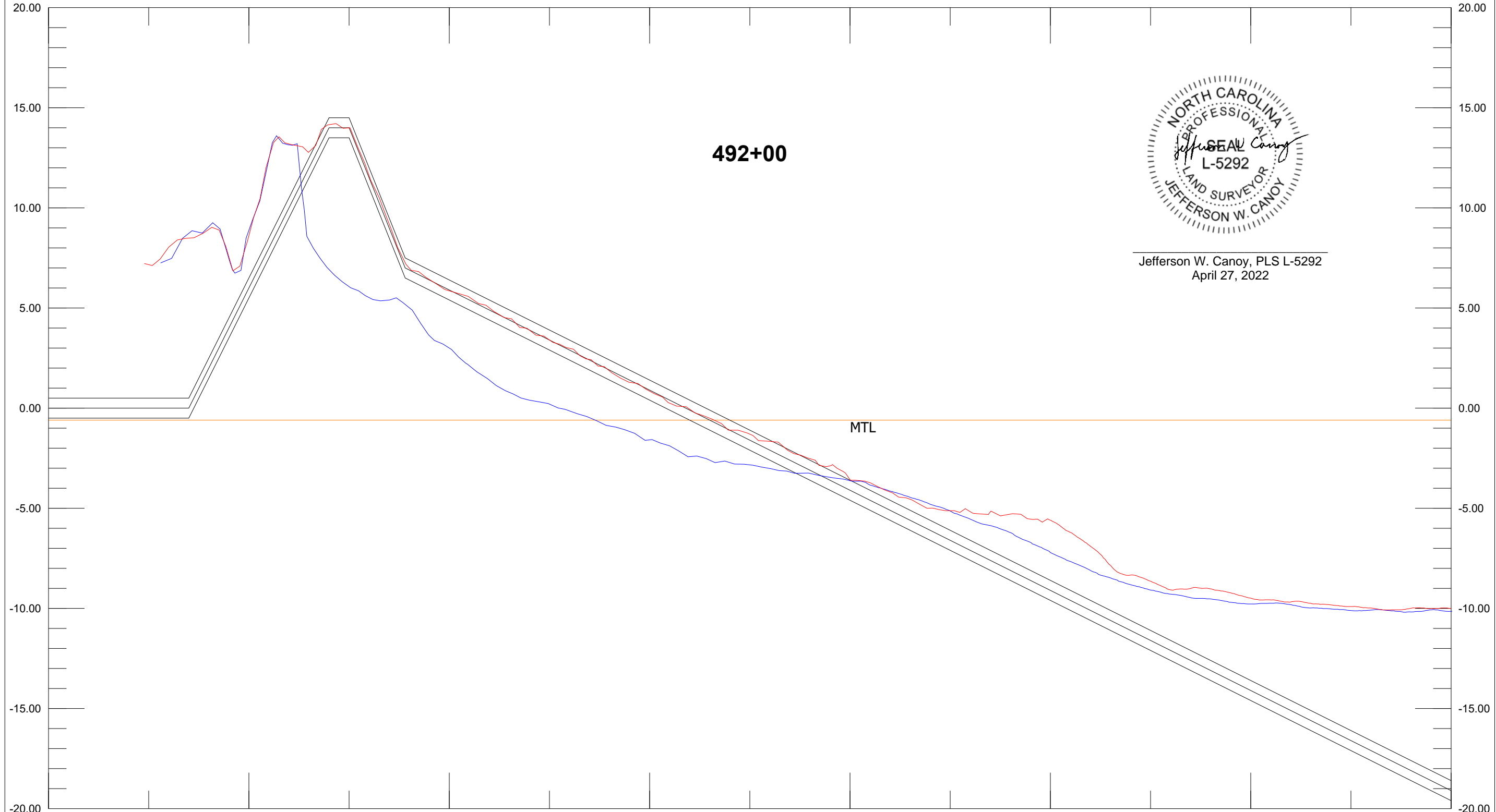
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Base Survey AD Template DBL 50.00 Ft:In
489+00 489+00 Depth 5.00 Ft:In



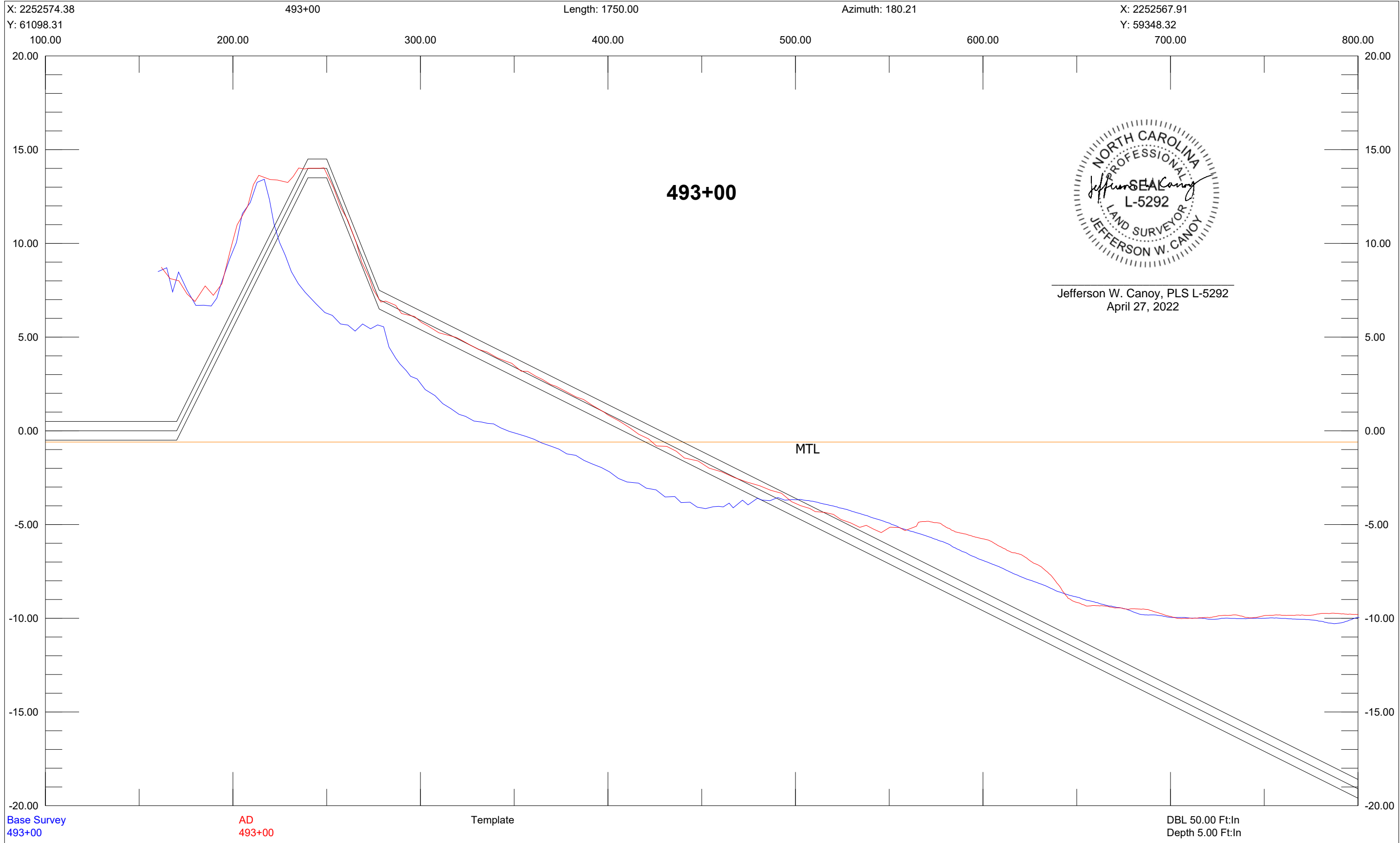


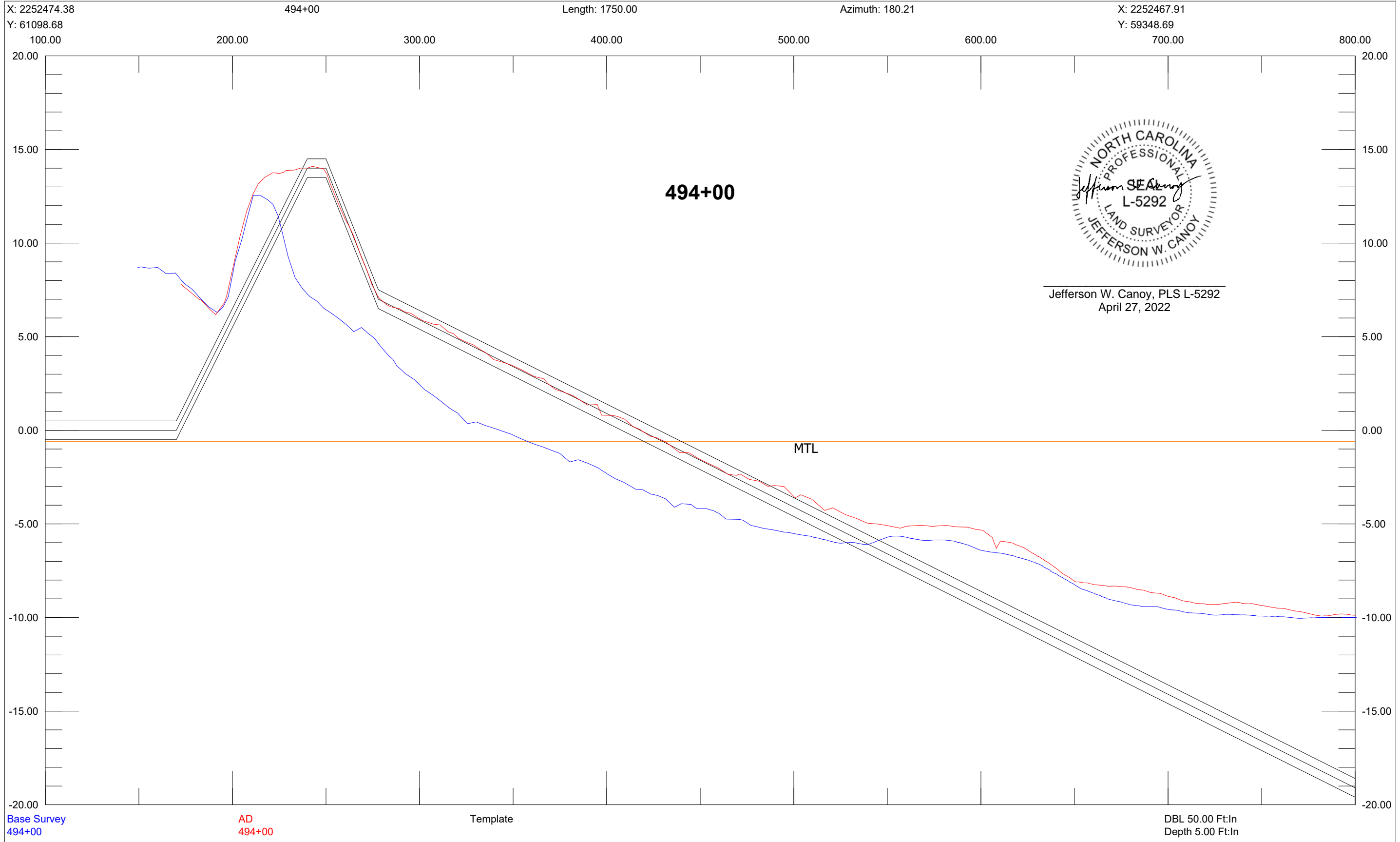
X: 2252674.38 492+00 Length: 1750.00 Azimuth: 180.21 X: 2252667.91
Y: 61097.94 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



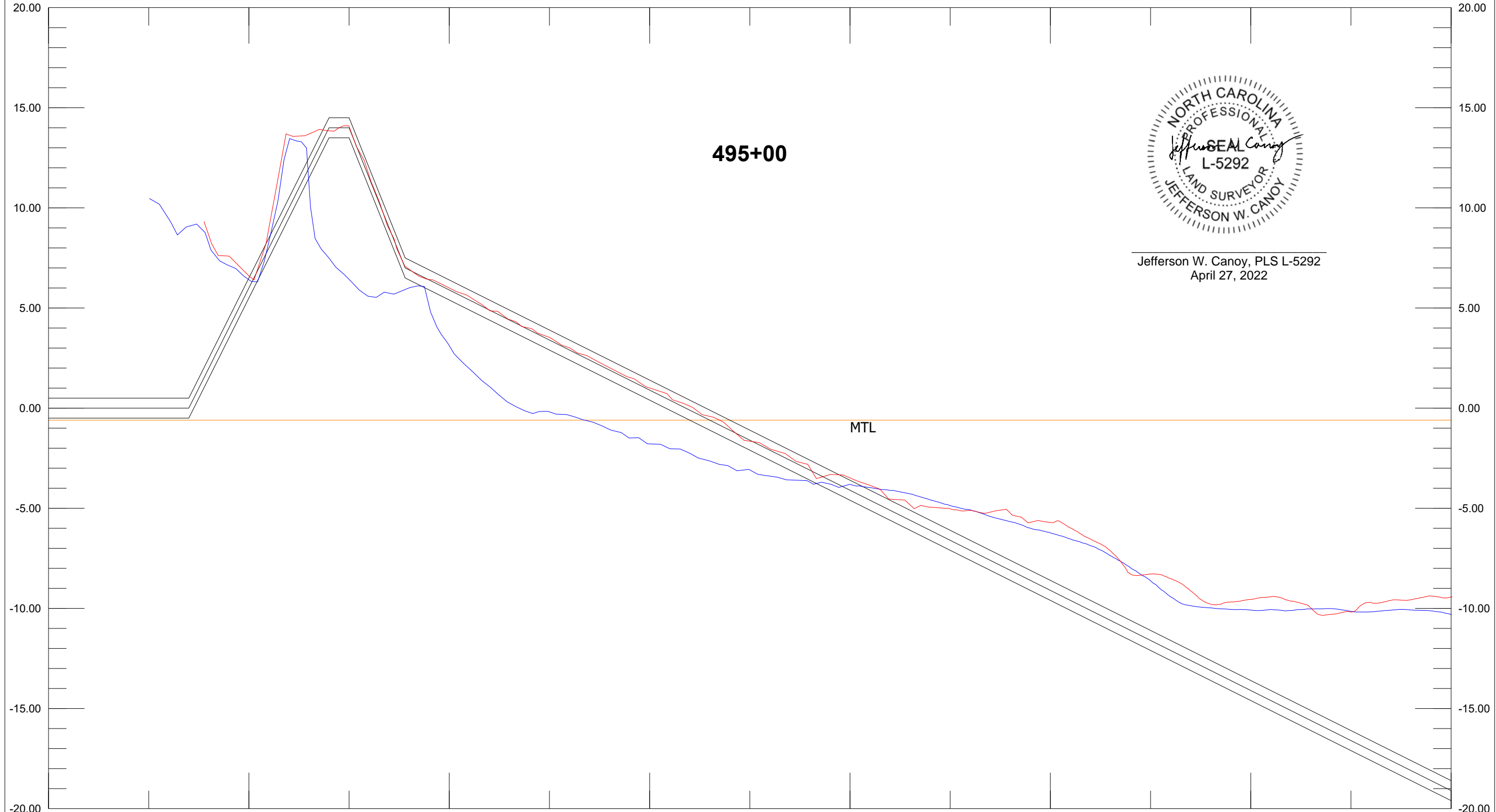
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Base Survey AD Template DBL 50.00 Ft:In
492+00 492+00 Depth 5.00 Ft:In



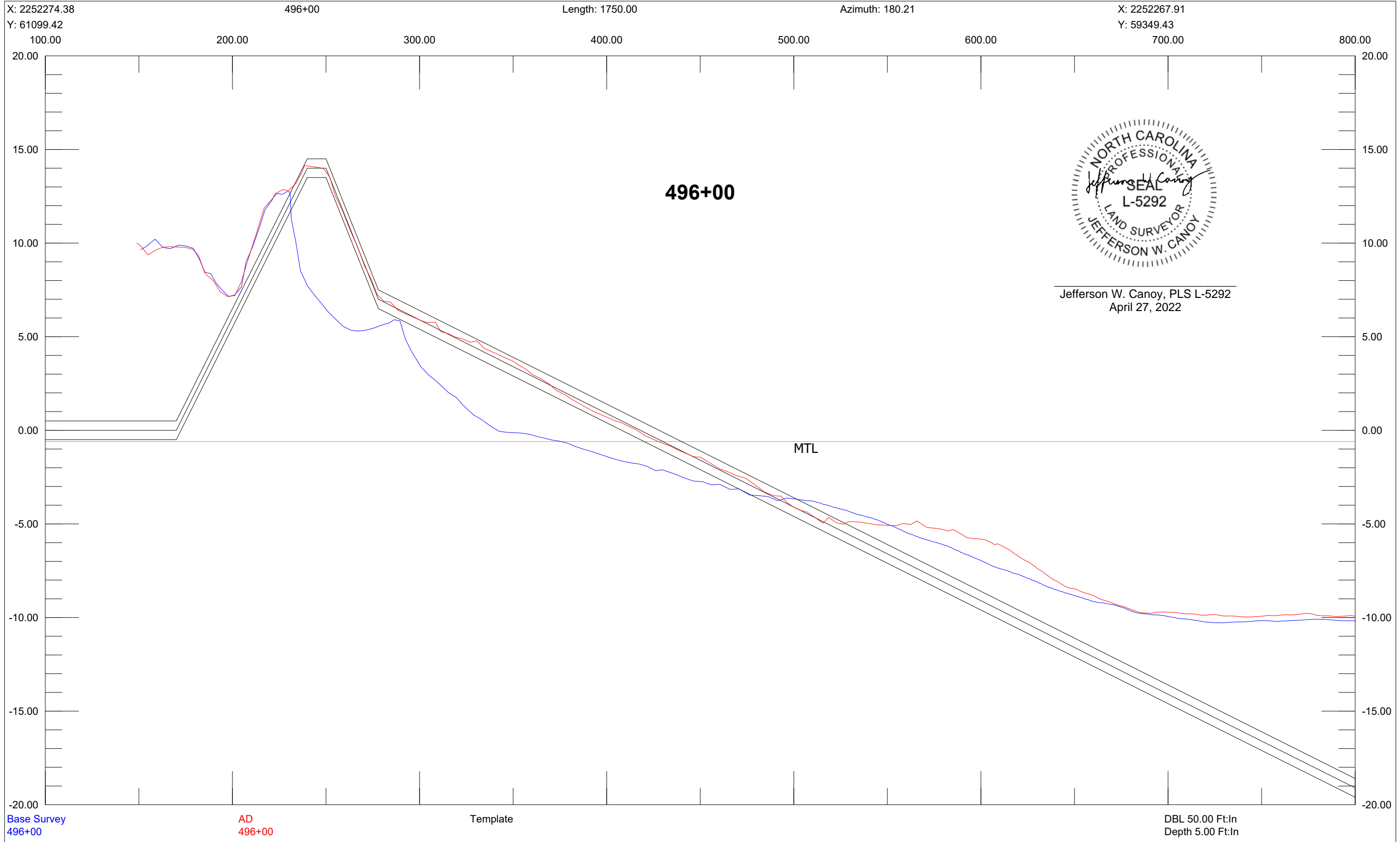


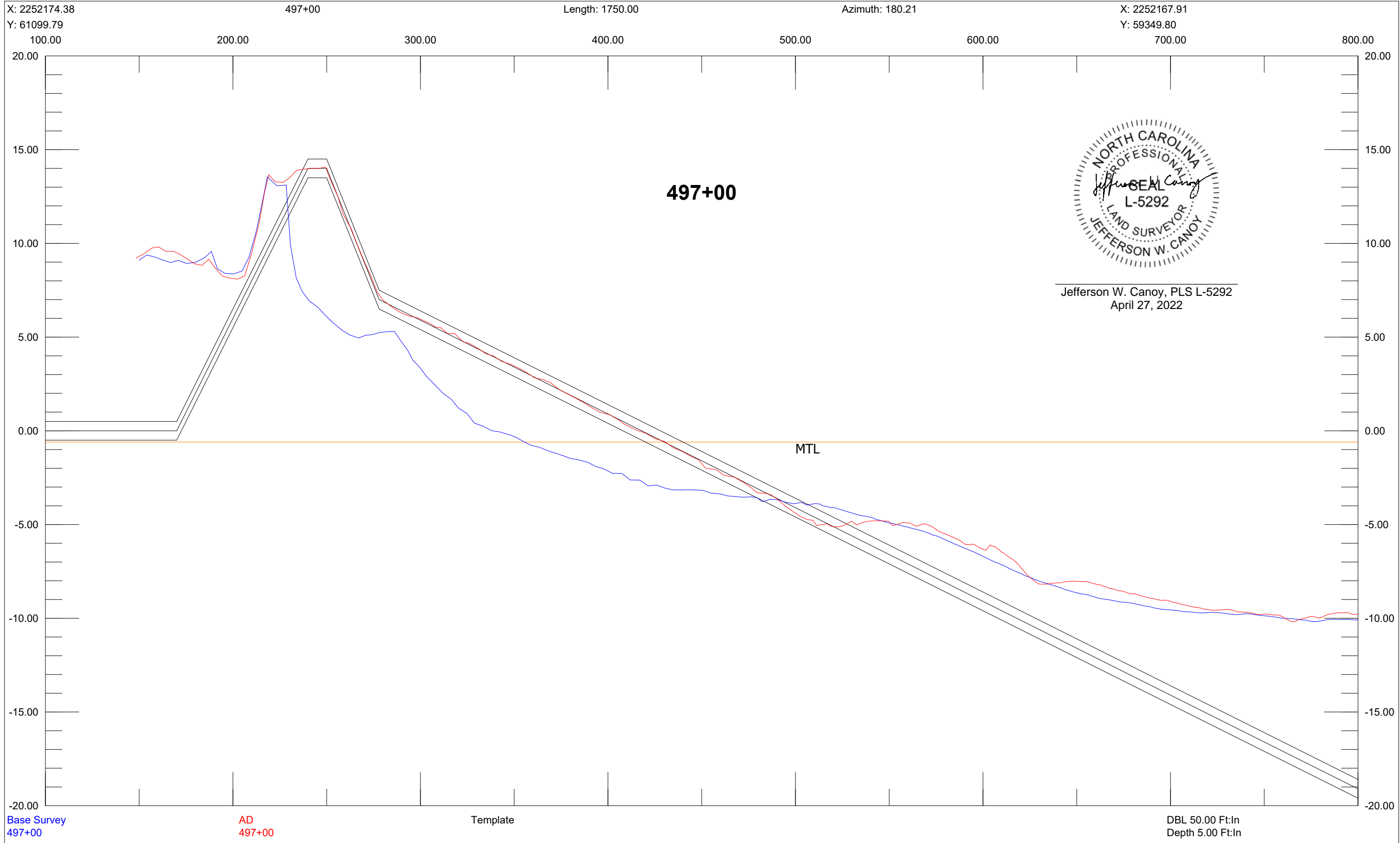
X: 2252374.38 495+00 Length: 1750.00 Azimuth: 180.21 X: 2252367.91
Y: 61099.05 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59349.06

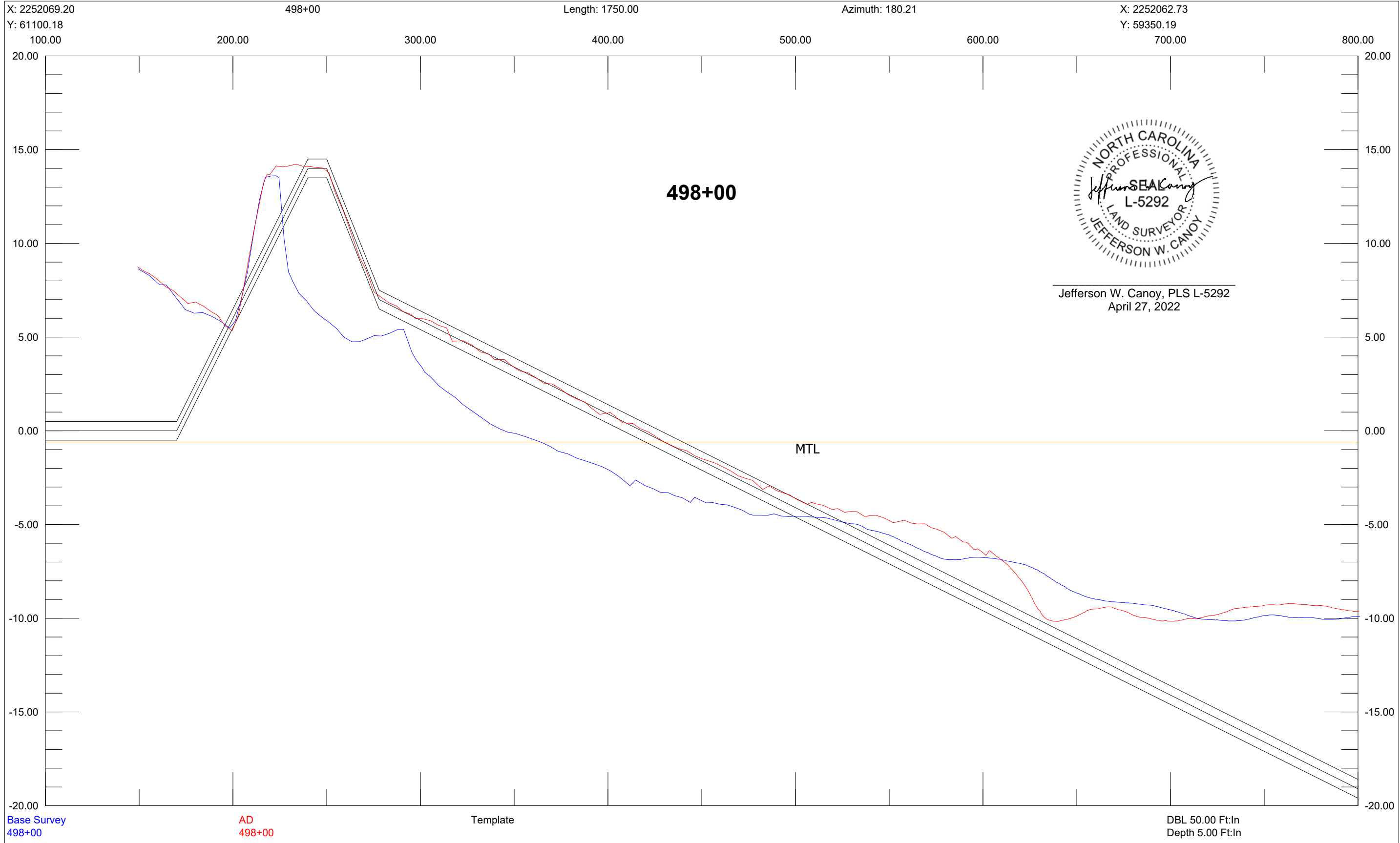


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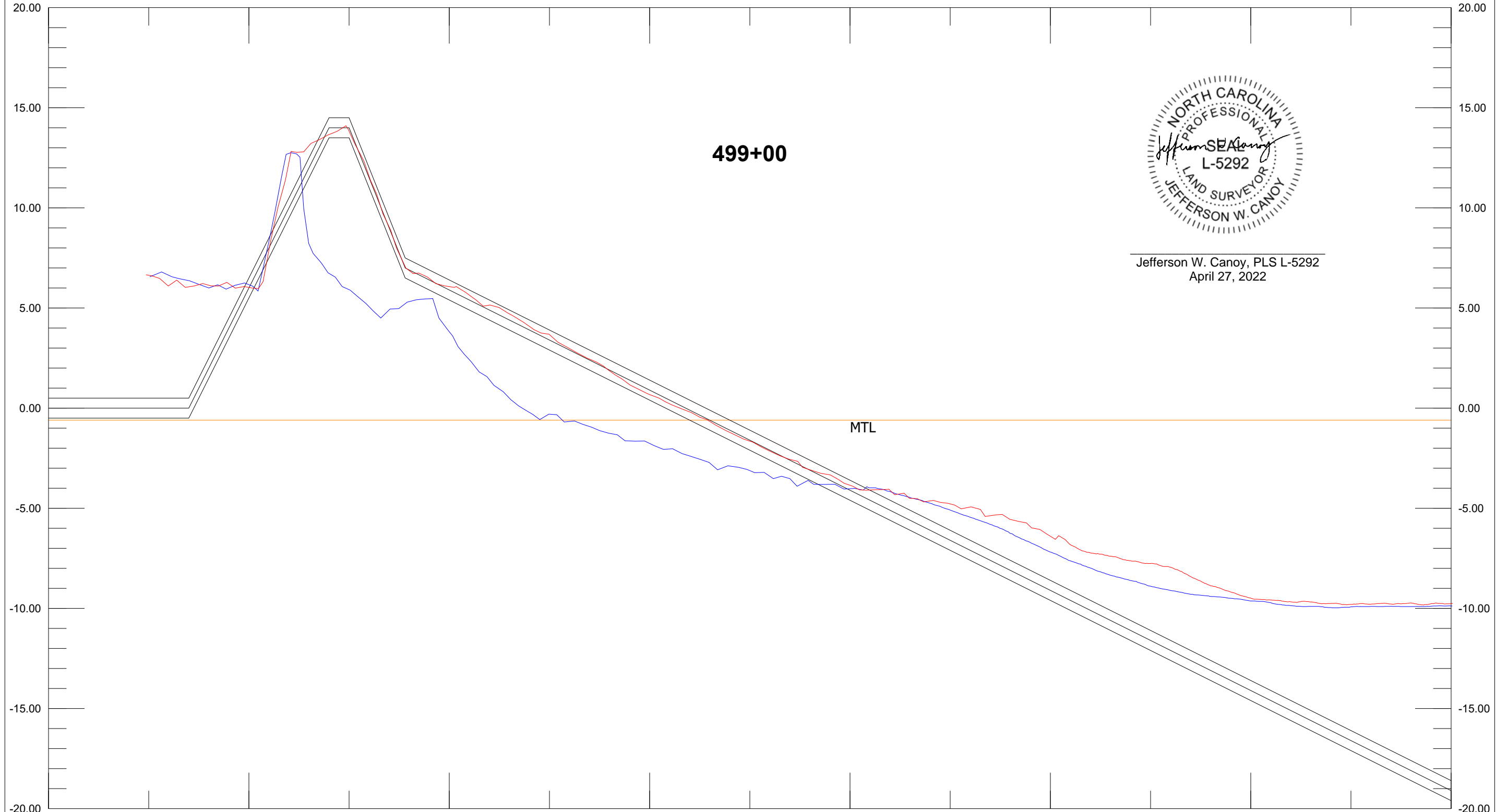
Base Survey AD Template DBL 50.00 Ft:In
495+00 495+00 Depth 5.00 Ft:In







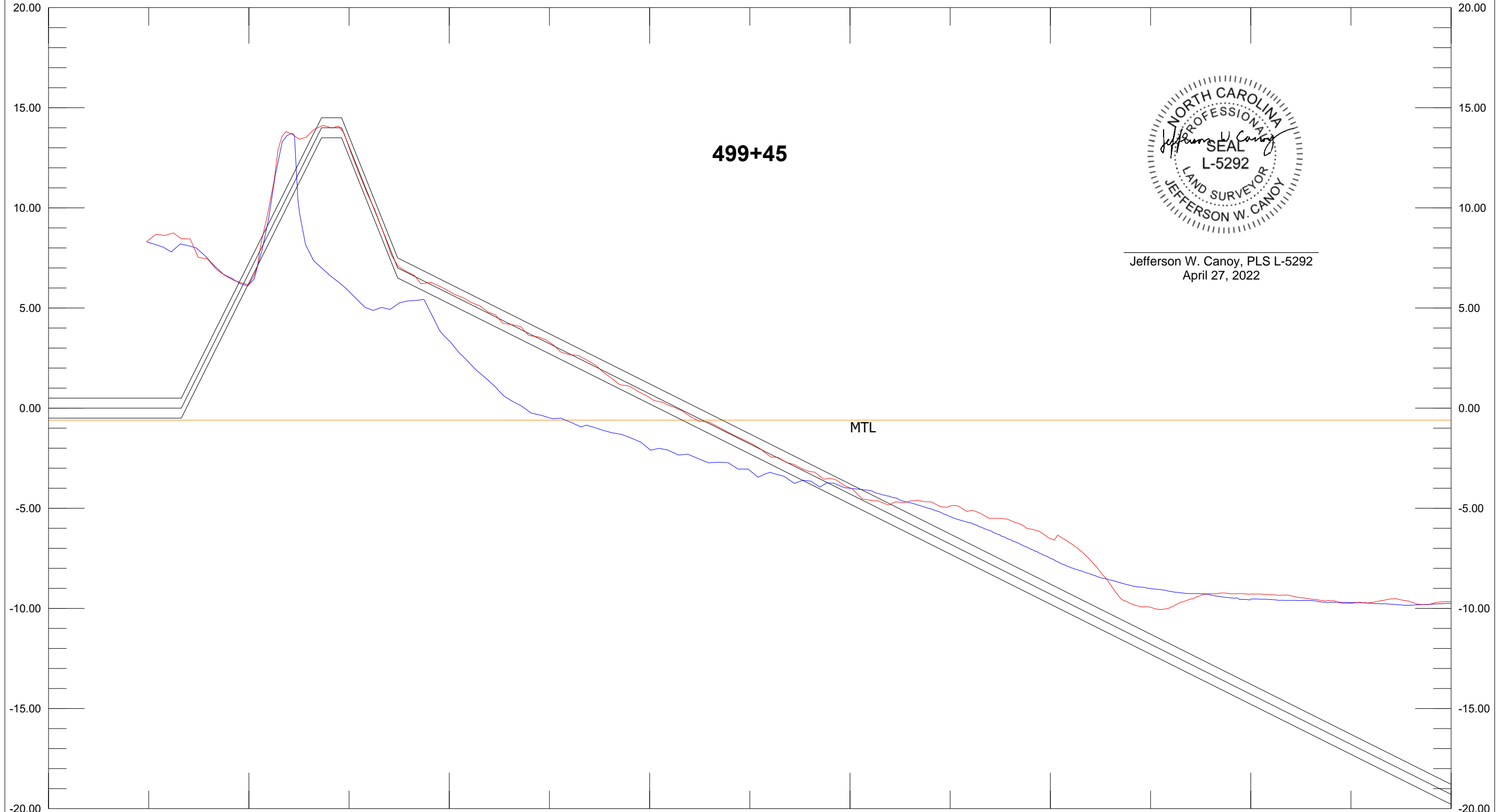
X: 2251976.81 499+00 Length: 1750.01 Azimuth: 180.77 X: 2251953.40
Y: 61101.43 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59351.58



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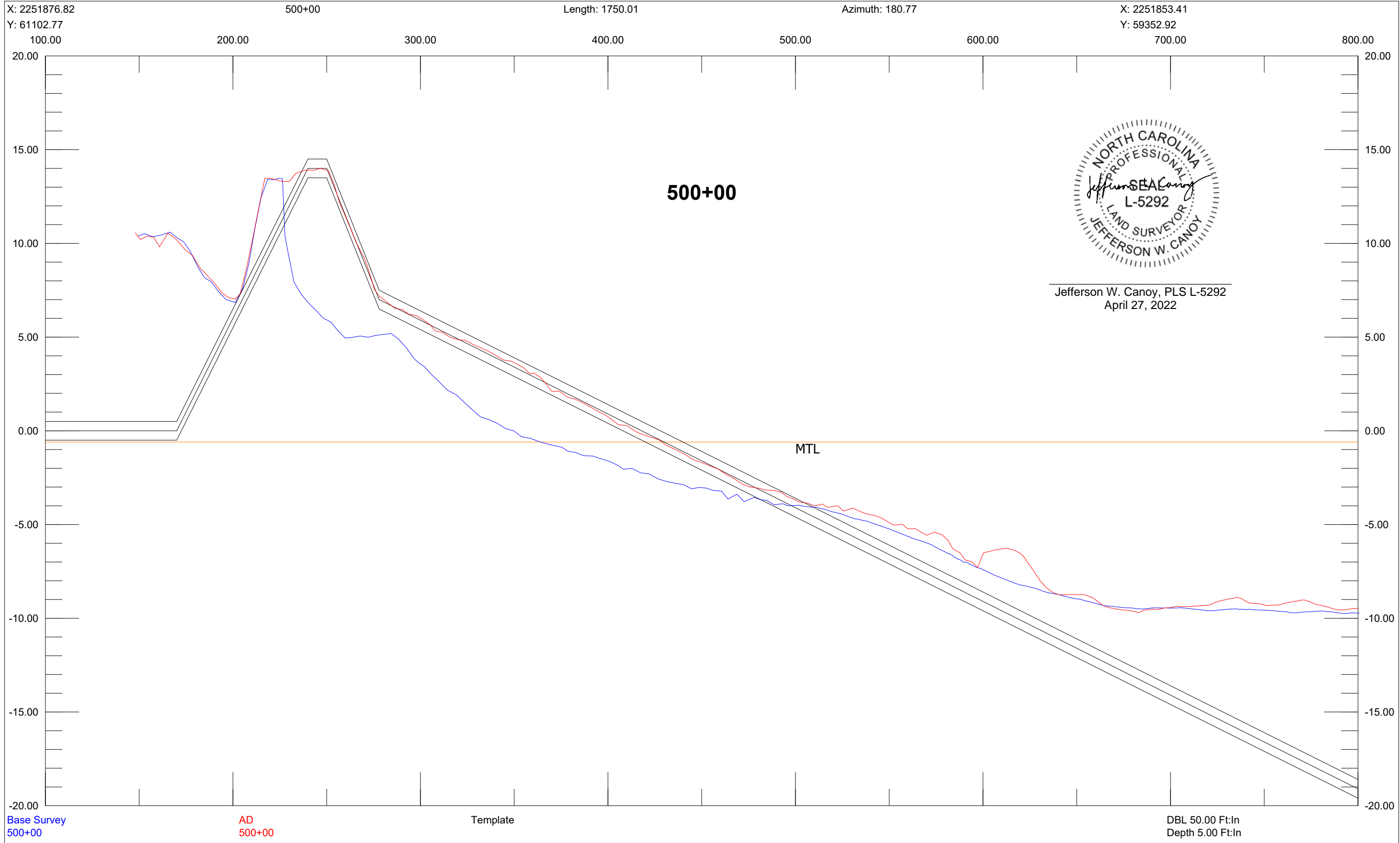
Base Survey AD Template DBL 50.00 Ft:In
499+00 499+00 Depth 5.00 Ft:In

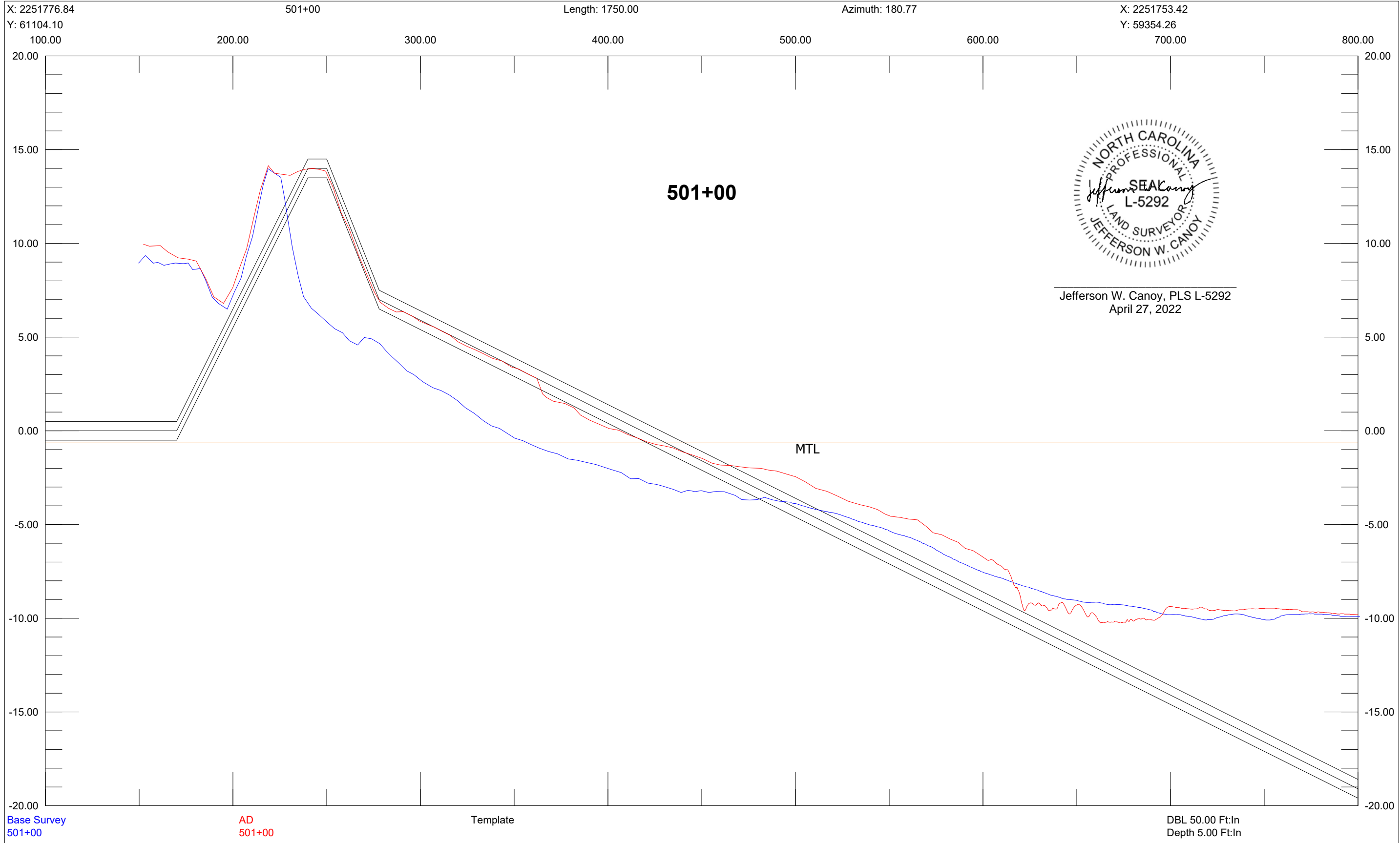
X: 2251931.40 499+45 Length: 1750.01 Azimuth: 180.77 X: 2251907.99
Y: 61098.31 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



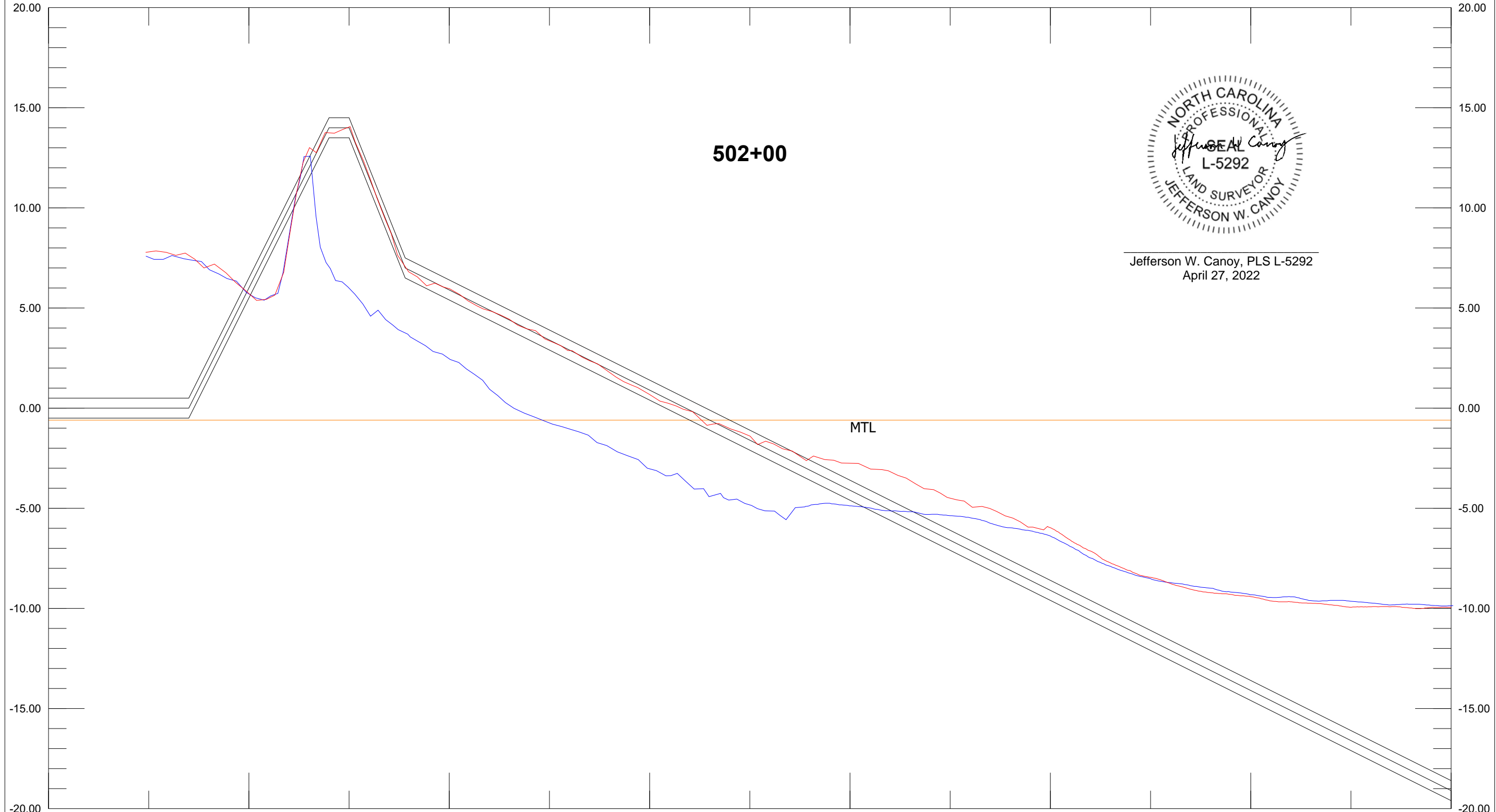
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Base Survey 499+45 AD 499+45 Template DBL 50.00 Ft:In Depth 5.00 Ft:In





X: 2251676.85 502+00 Length: 1750.00 Azimuth: 180.77 X: 2251653.43
Y: 61105.44 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



502+00

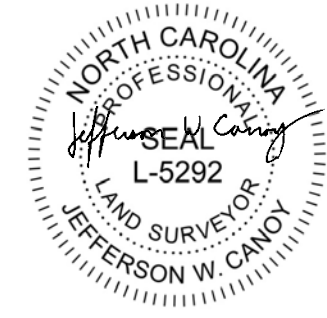
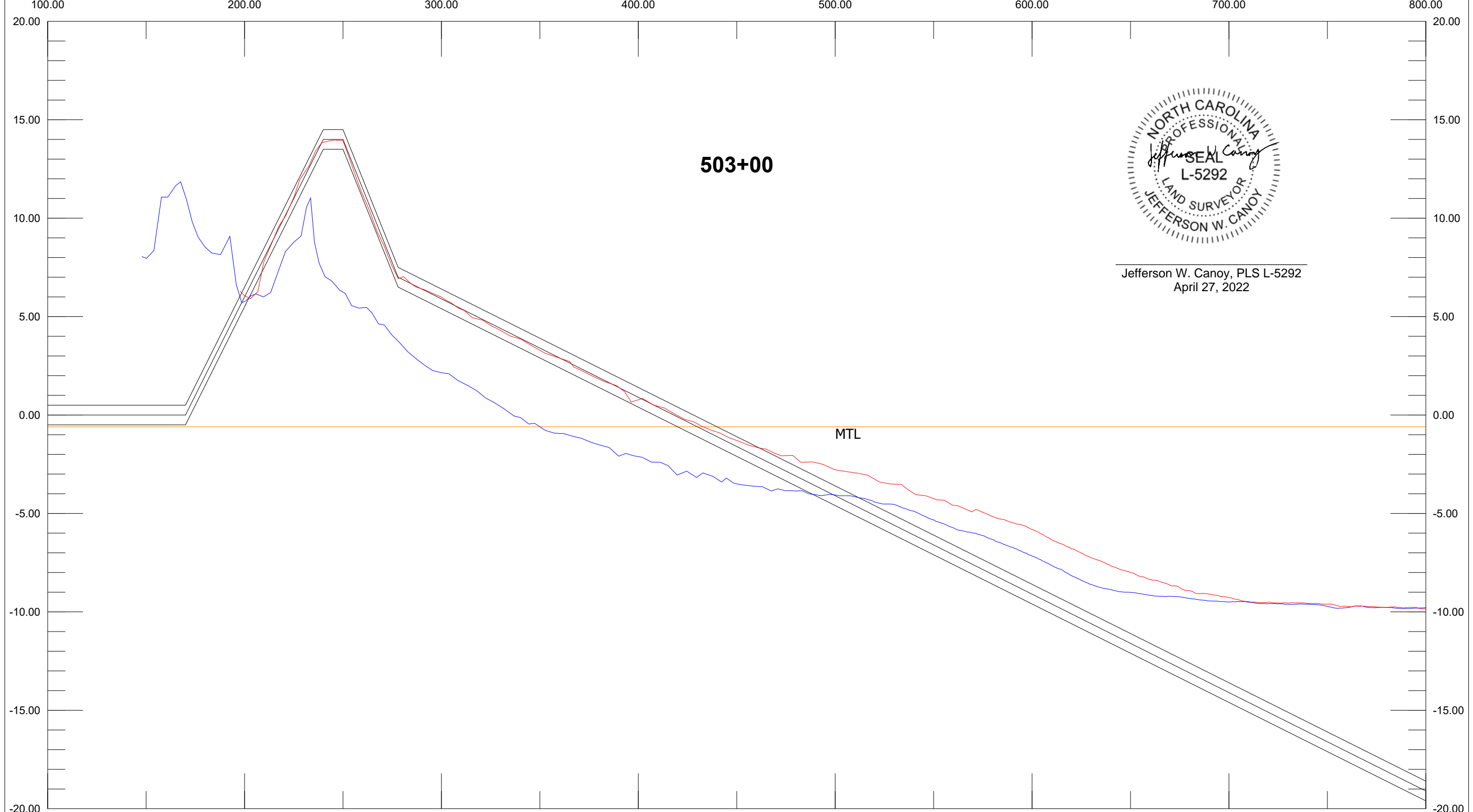


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Base Survey AD Template DBL 50.00 Ft:In
502+00 502+00

X: 2251576.85 503+00 Length: 1750.01 Azimuth: 180.77 X: 2251553.44

Y: 61106.78 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



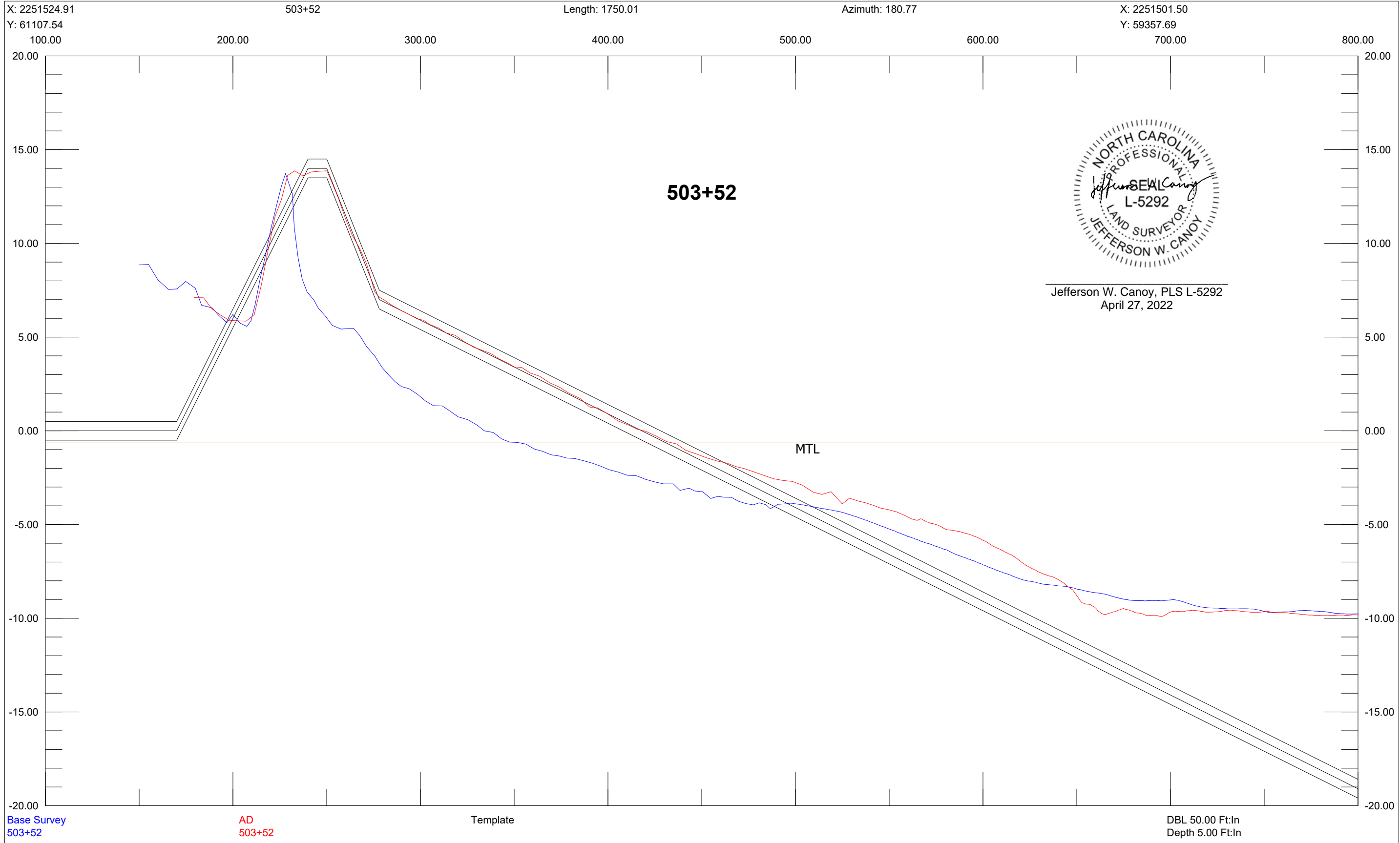
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Base Survey
503+00

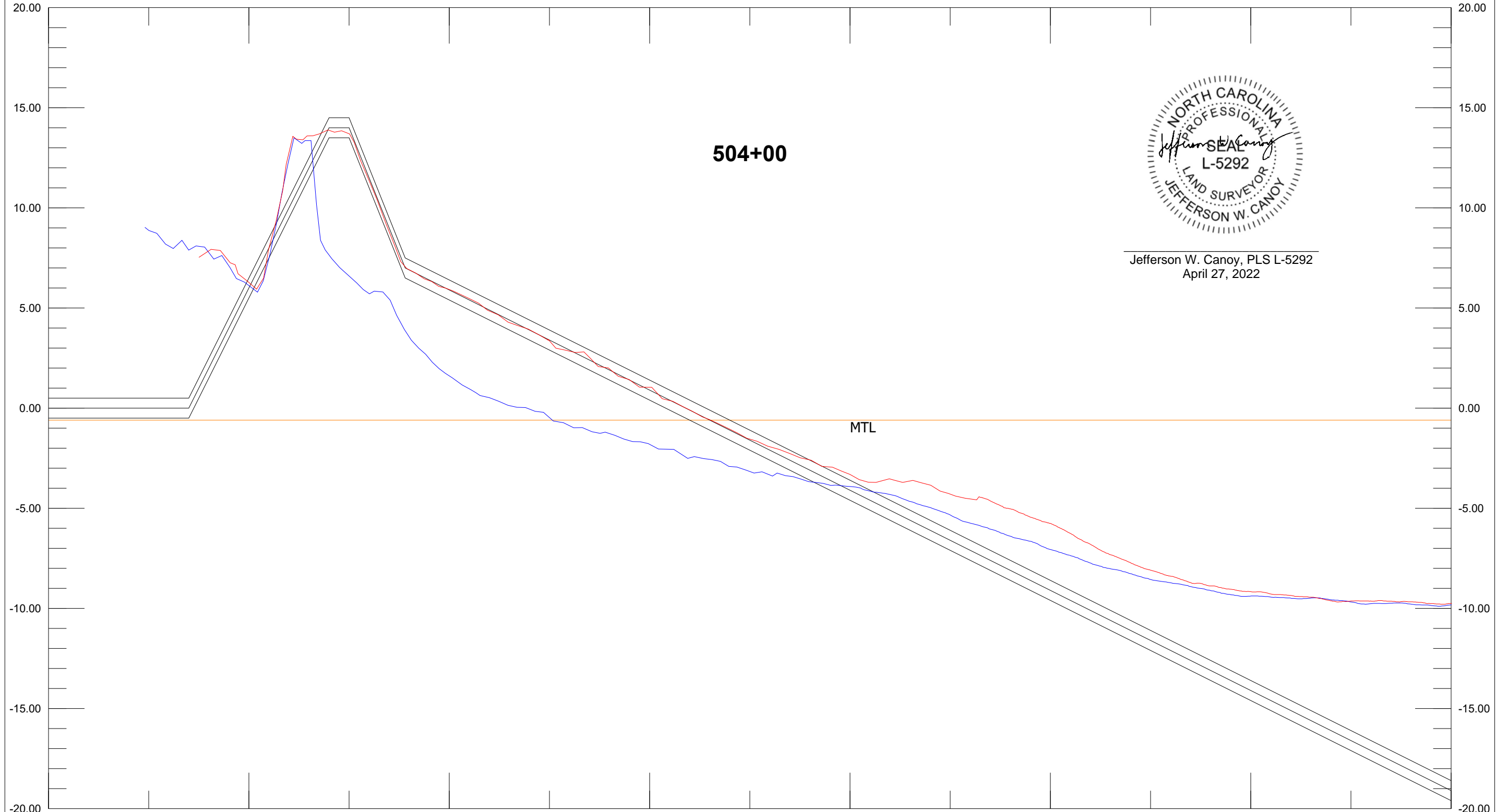
AD
503+00

Template

DBL 50.00 Ft:In
Depth 5.00 Ft:In



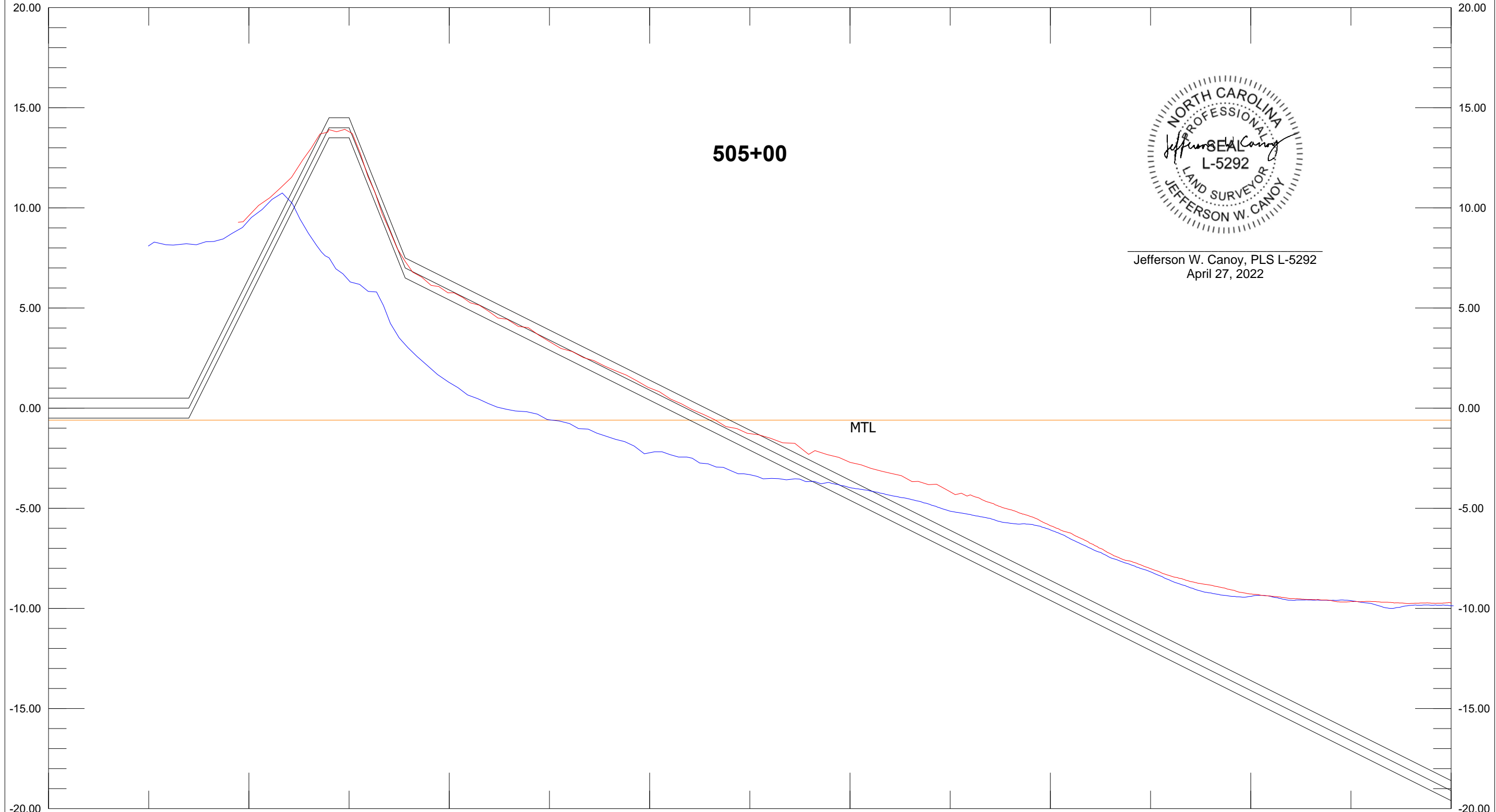
X: 2251484.08 504+00 Length: 1750.00 Azimuth: 182.41 X: 2251410.38
Y: 61109.31 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
504+00 504+00

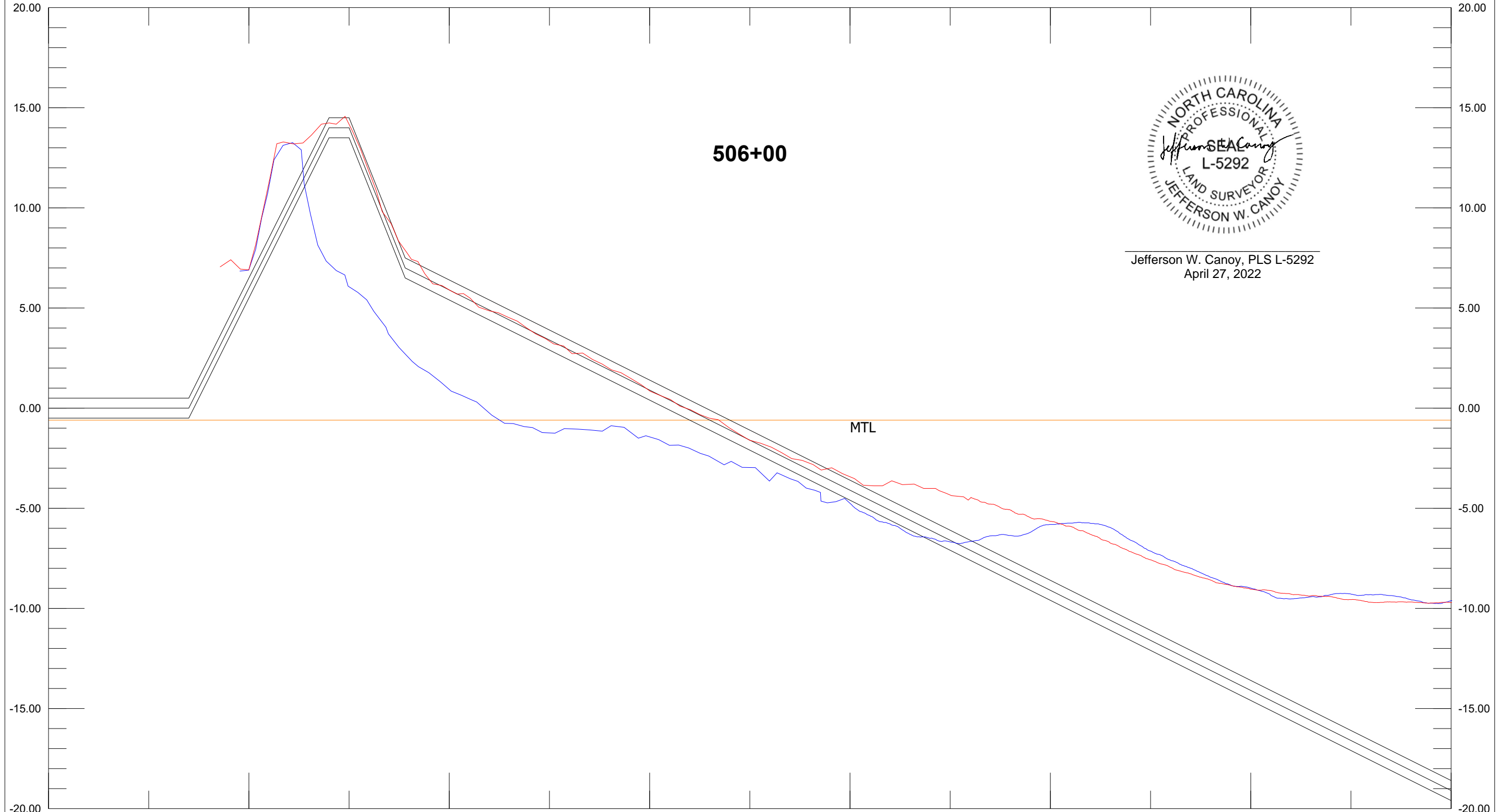
X: 2251384.17 505+00 Length: 1750.00 Azimuth: 182.41 X: 2251310.46
Y: 61113.52 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
505+00 505+00 Depth 5.00 Ft:In

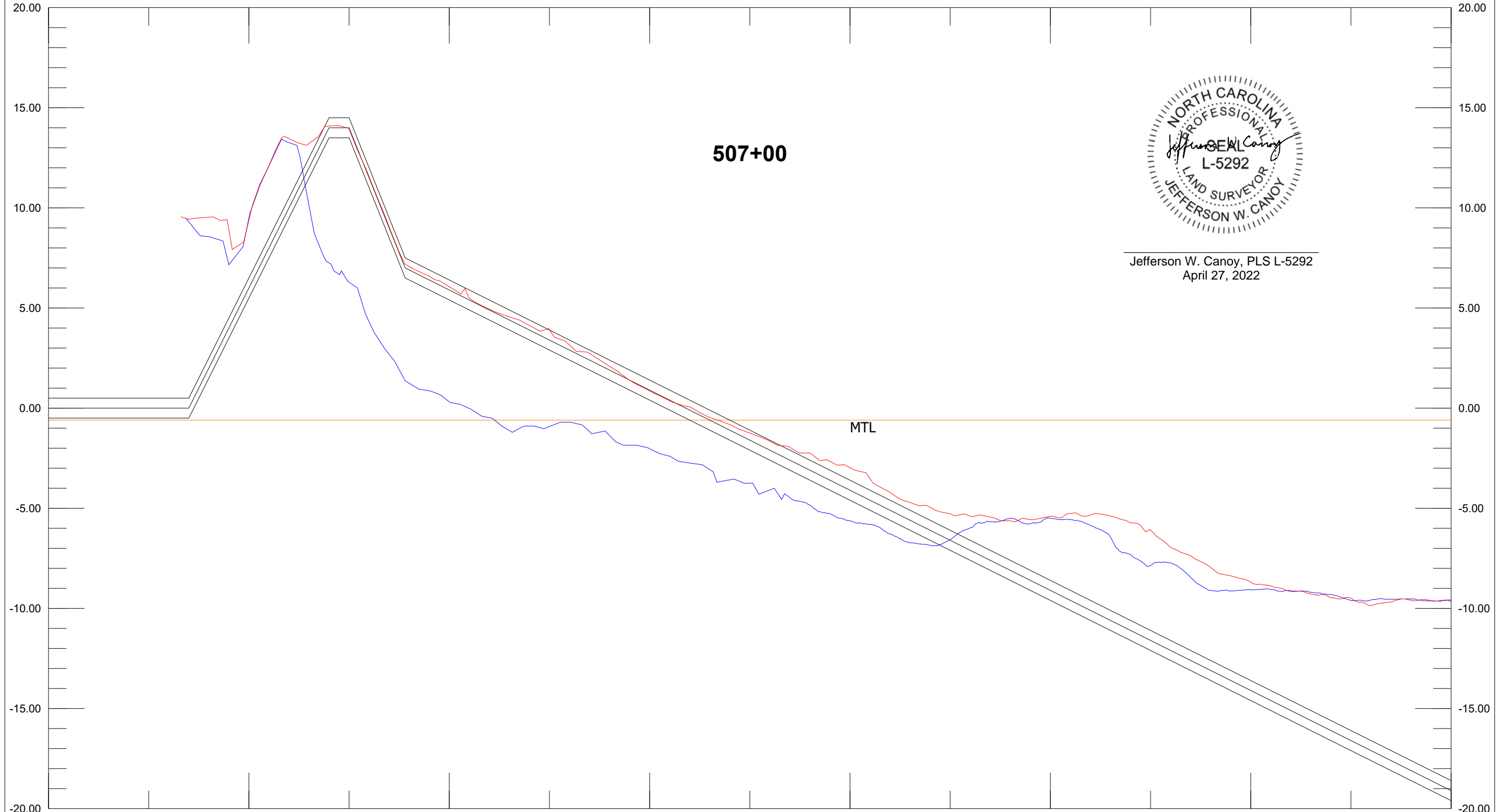
X: 2251277.16 506+00 Length: 1750.00 Azimuth: 181.03 X: 2251245.72
Y: 61117.97 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59368.25



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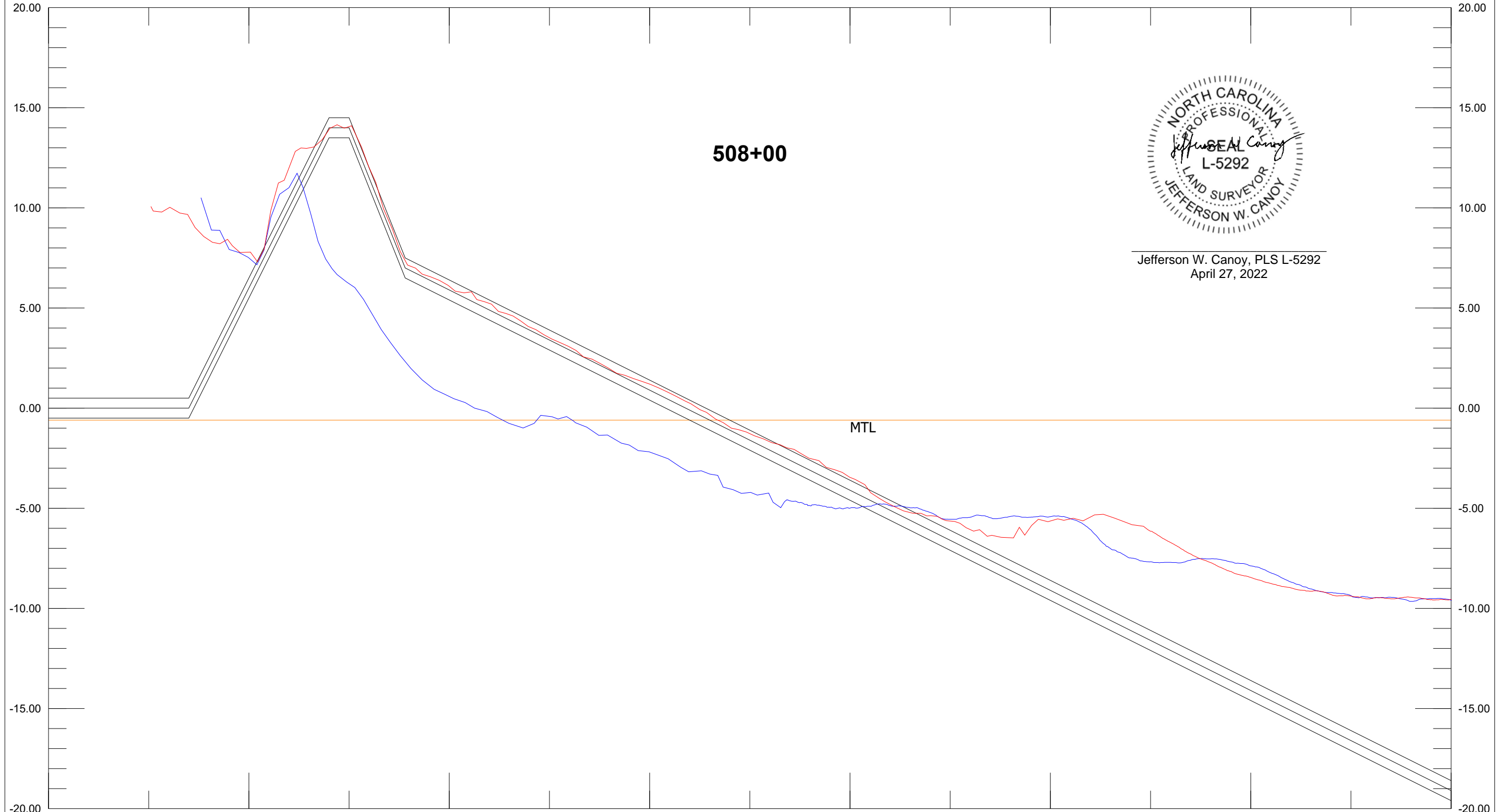
Base Survey AD Template DBL 50.00 Ft:In
506+00 506+00 Depth 5.00 Ft:In

X: 2251174.37 507+00 Length: 1750.00 Azimuth: 180.15 X: 2251169.87
Y: 61118.25 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59368.26



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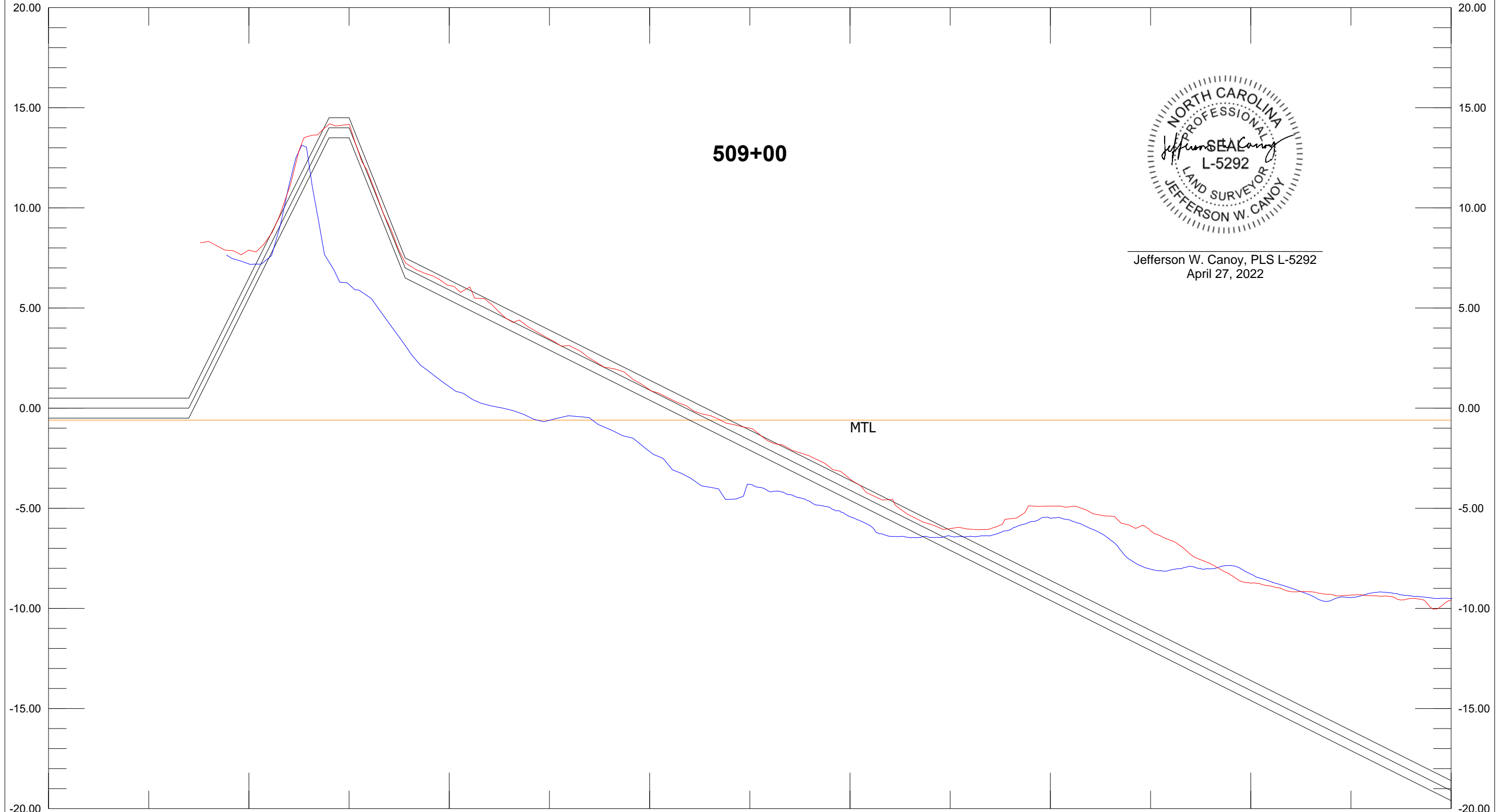
X: 2251074.37 508+00 Length: 1750.00 Azimuth: 180.15 X: 2251069.87
Y: 61118.51 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
508+00 508+00

X: 2250974.37 509+00 Length: 1750.01 Azimuth: 180.15 X: 2250969.87
Y: 61118.77 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59368.77



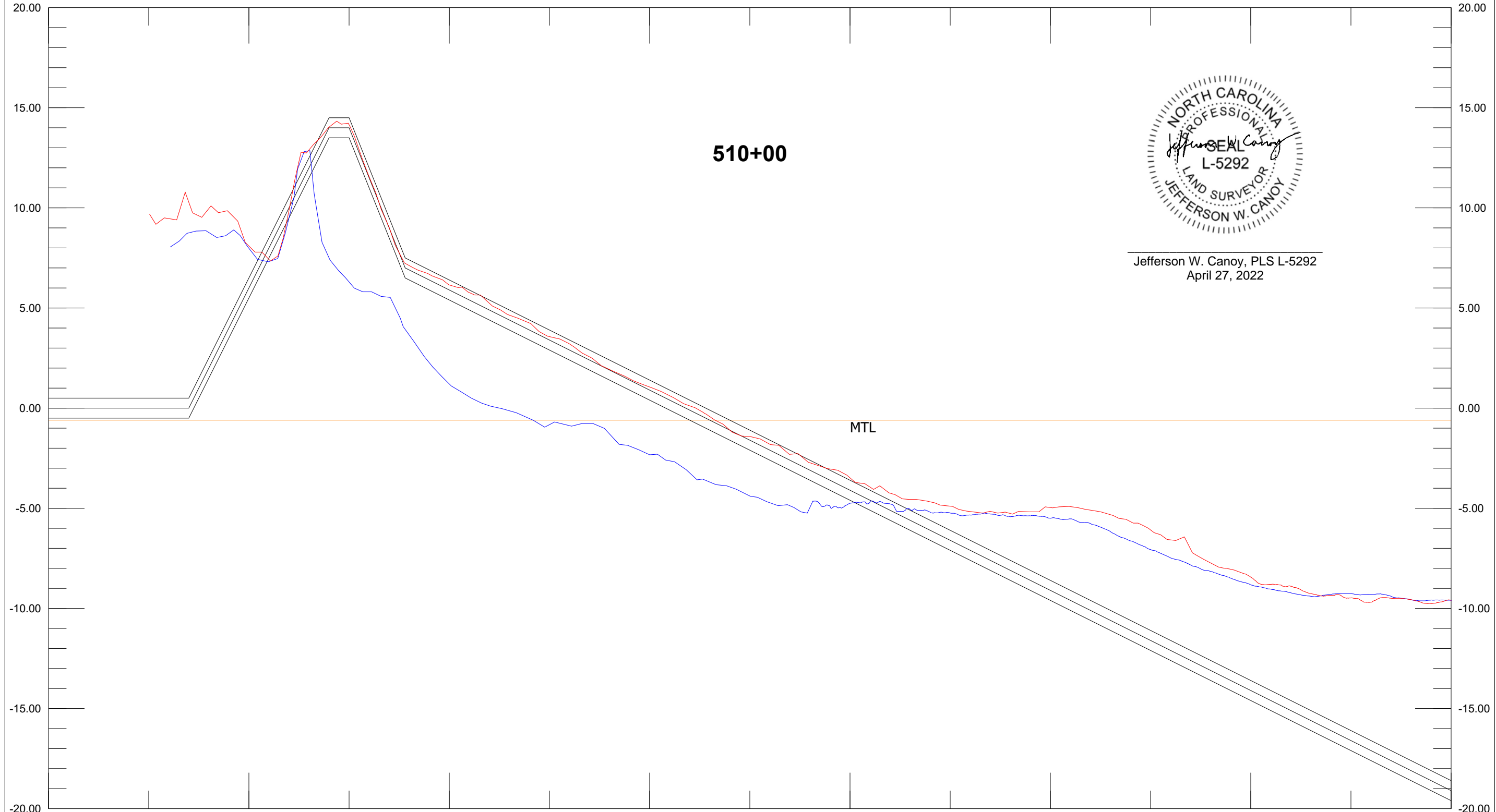
509+00



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Base Survey AD Template DBL 50.00 Ft:In
509+00 509+00 Depth 5.00 Ft:In

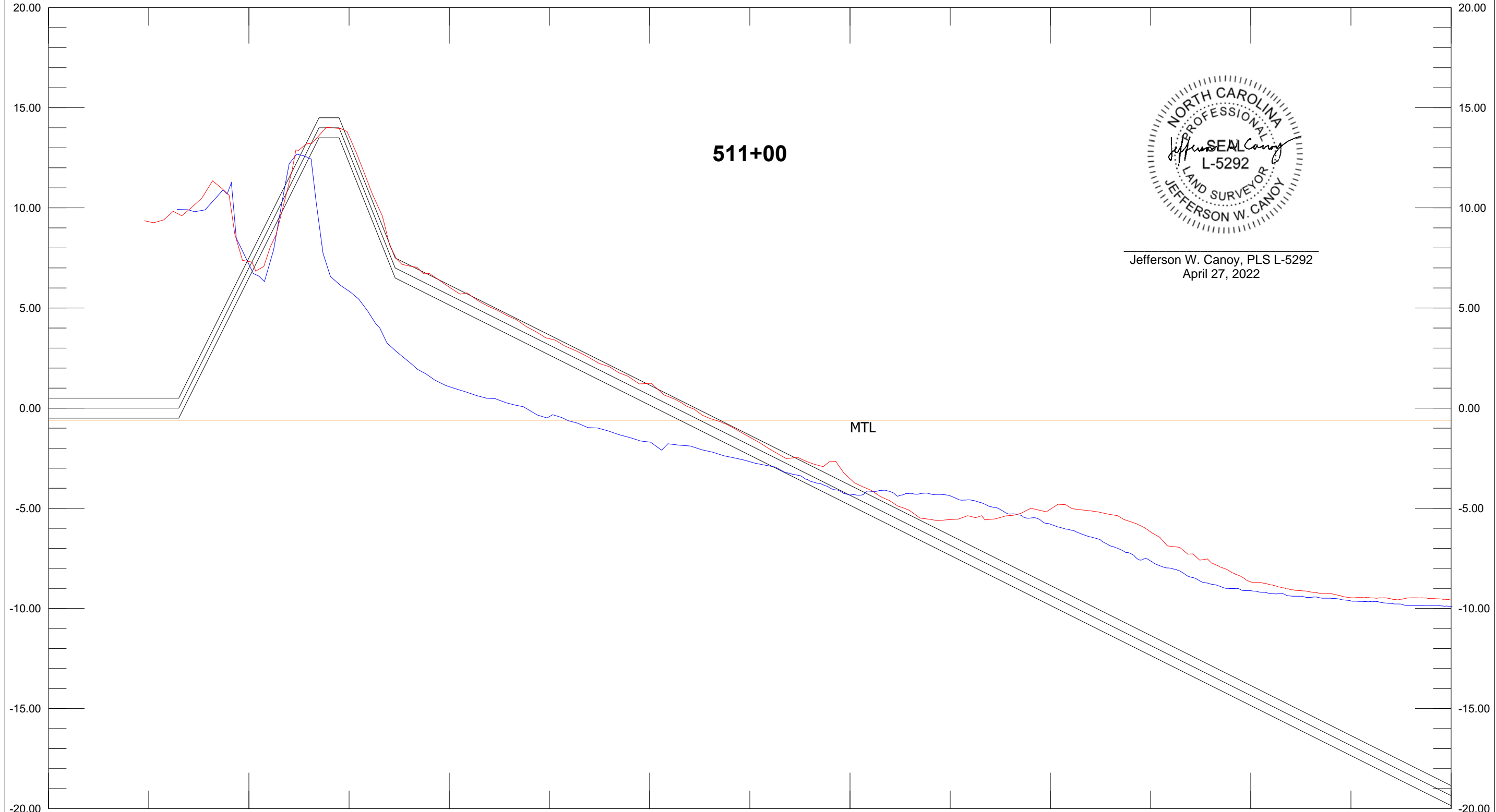
X: 2250874.37 510+00 Length: 1750.01 Azimuth: 180.15 X: 2250869.87
Y: 61119.03 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
510+00 510+00 Depth 5.00 Ft:In

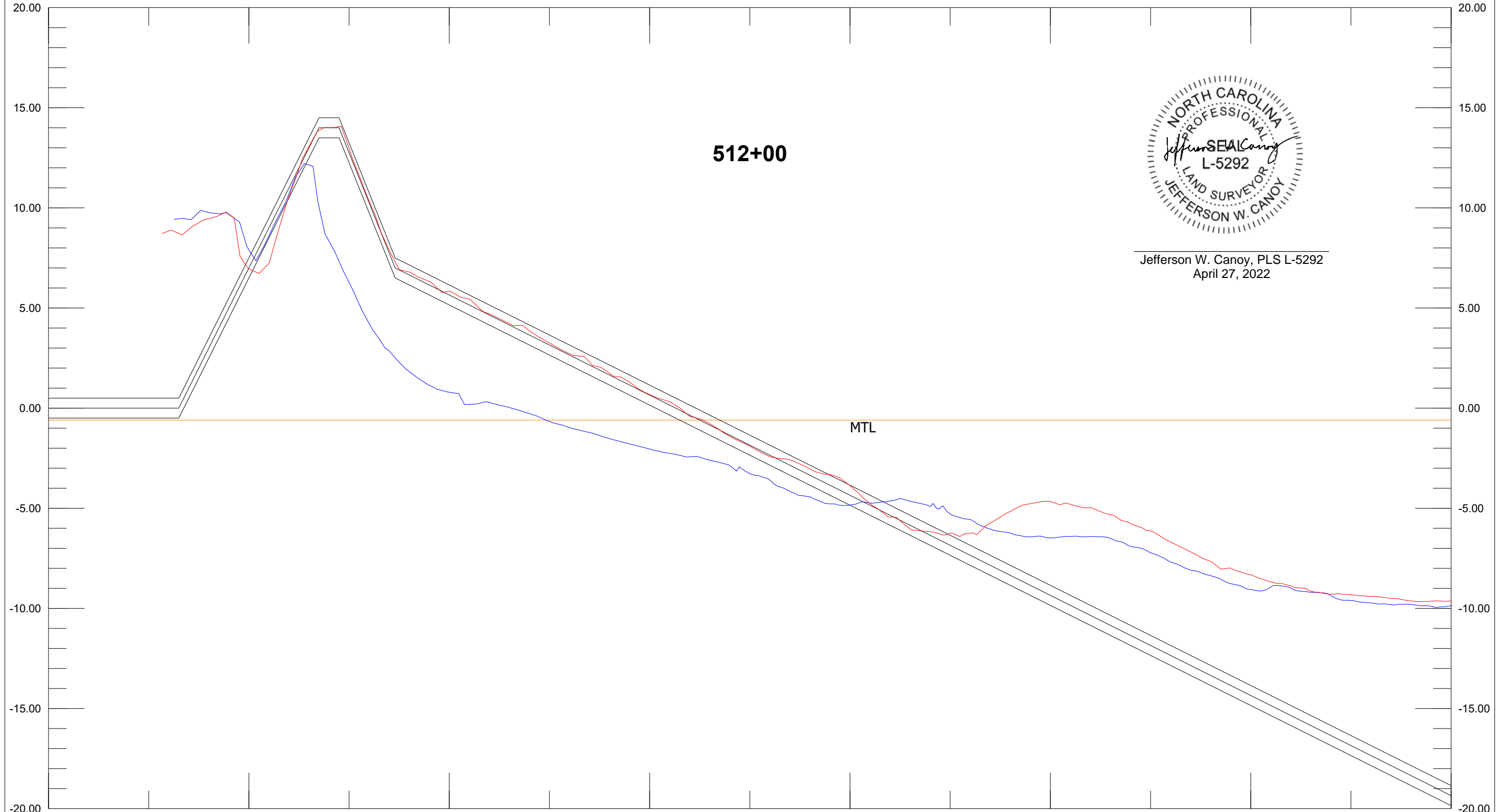
X: 2250774.37 511+00 Length: 1750.00 Azimuth: 180.15 X: 2250769.87
Y: 61119.28 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
511+00 511+00 Depth 5.00 Ft:In

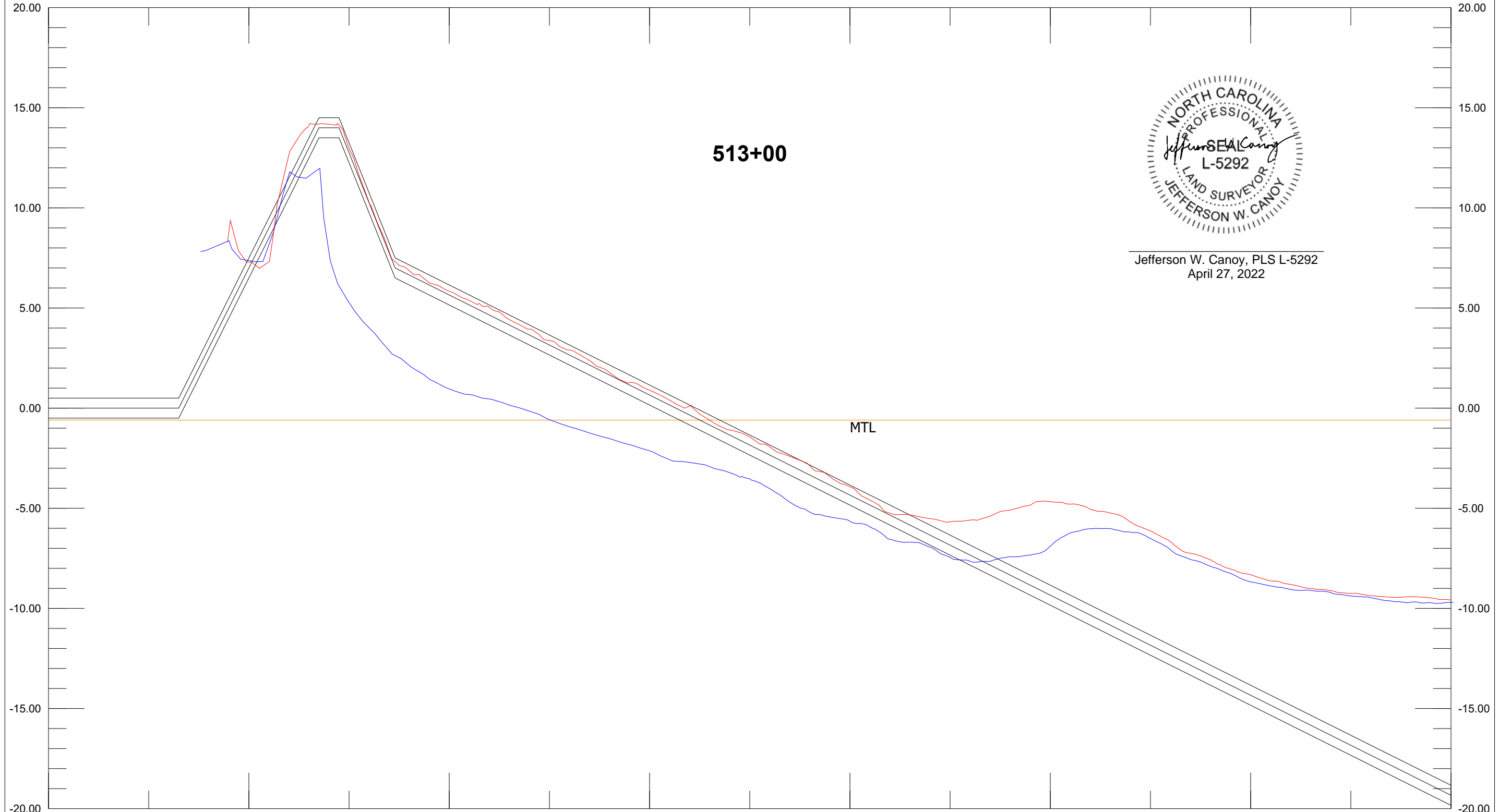
X: 2250674.37 512+00 Length: 1750.00 Azimuth: 180.15 X: 2250669.87
Y: 61119.54 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
512+00 512+00 Depth 5.00 Ft:In

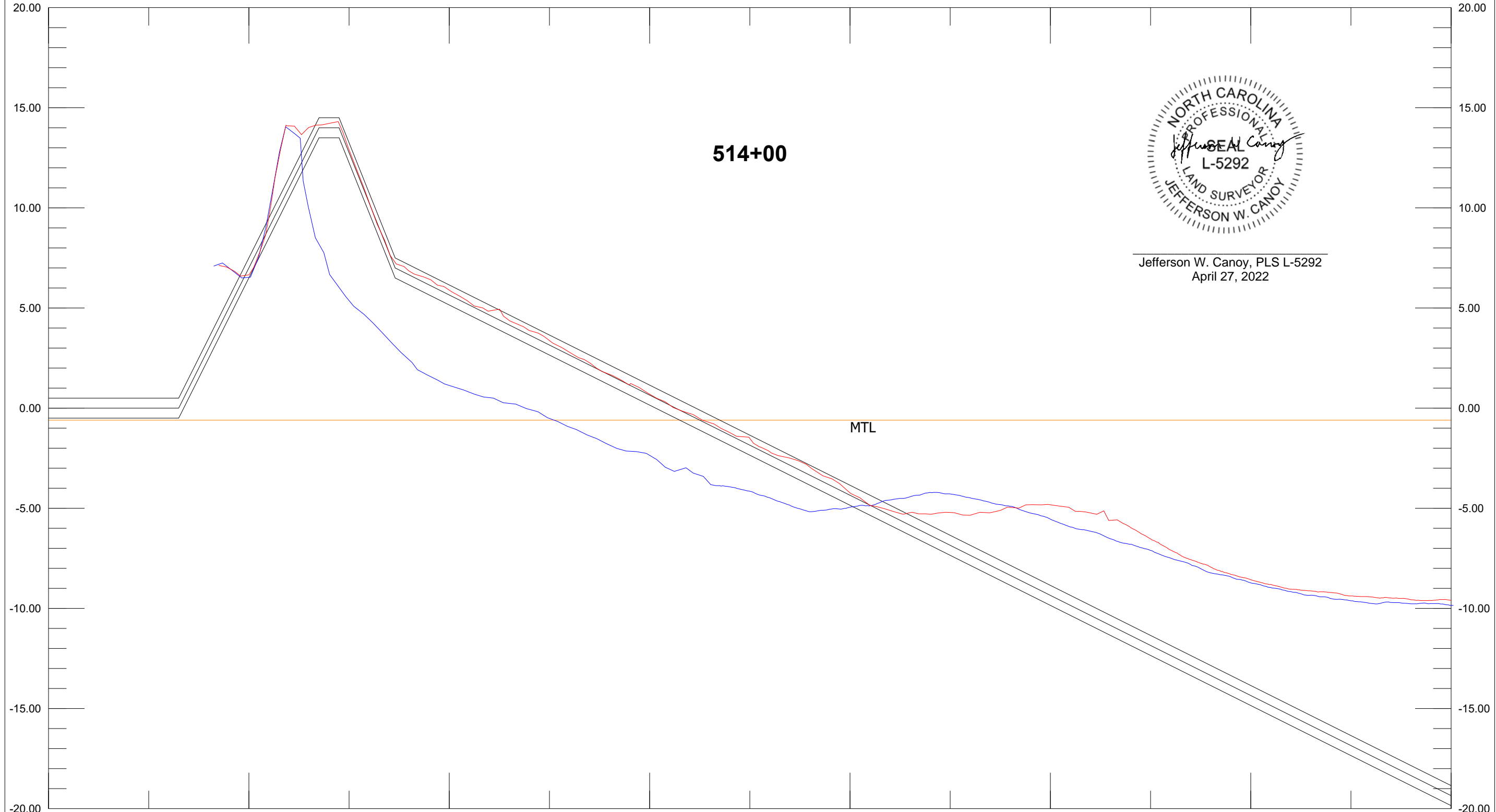
X: 2250574.05 513+00 Length: 1750.01 Azimuth: 180.15 X: 2250569.55
Y: 61119.80 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
513+00 513+00 Depth 5.00 Ft:In

X: 2250472.83 514+00 Length: 1749.99 Azimuth: 179.87 X: 2250476.84
Y: 61116.11 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



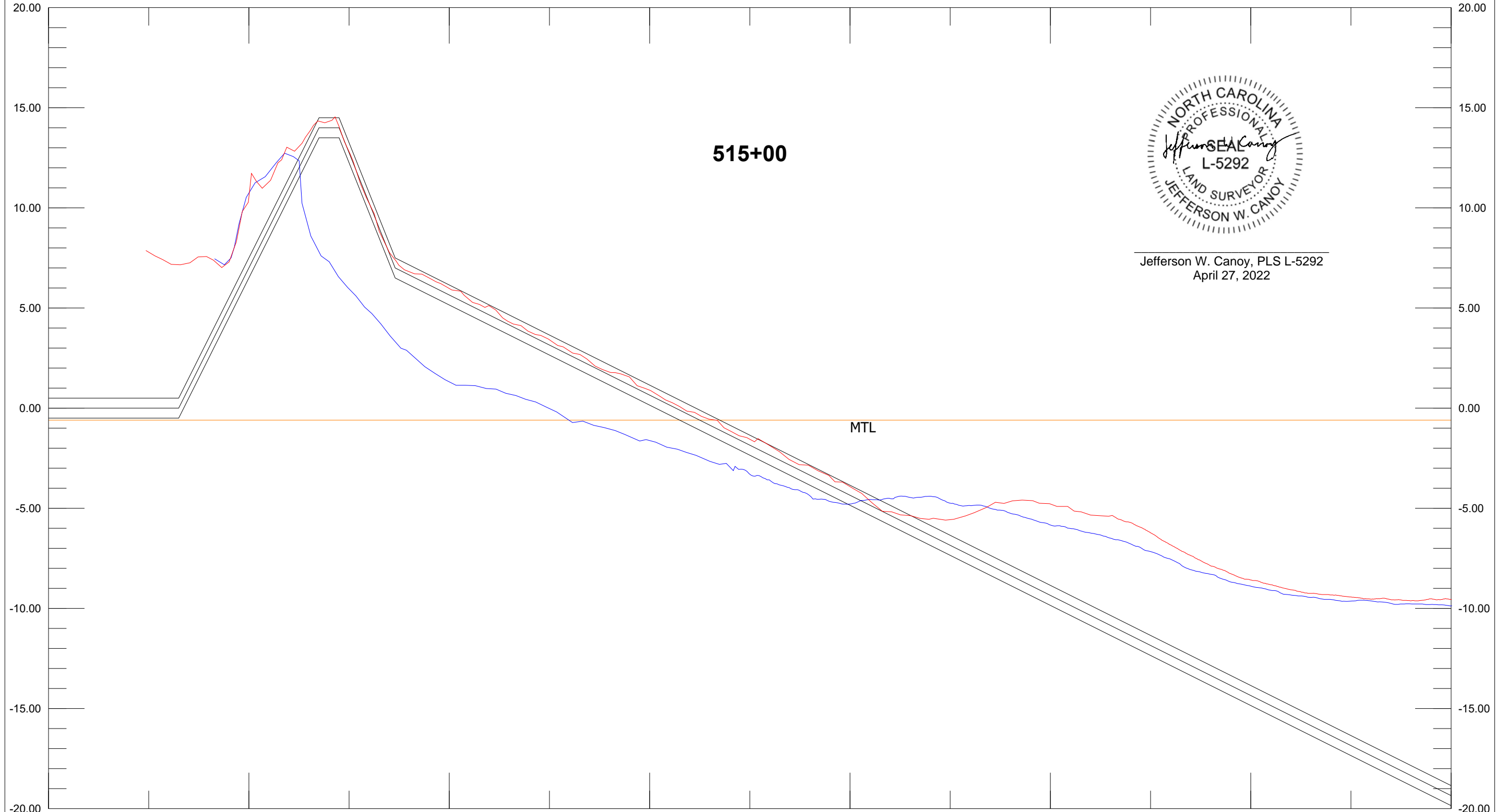
514+00



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Base Survey AD Template DBL 50.00 Ft:In
514+00 514+00 Depth 5.00 Ft:In

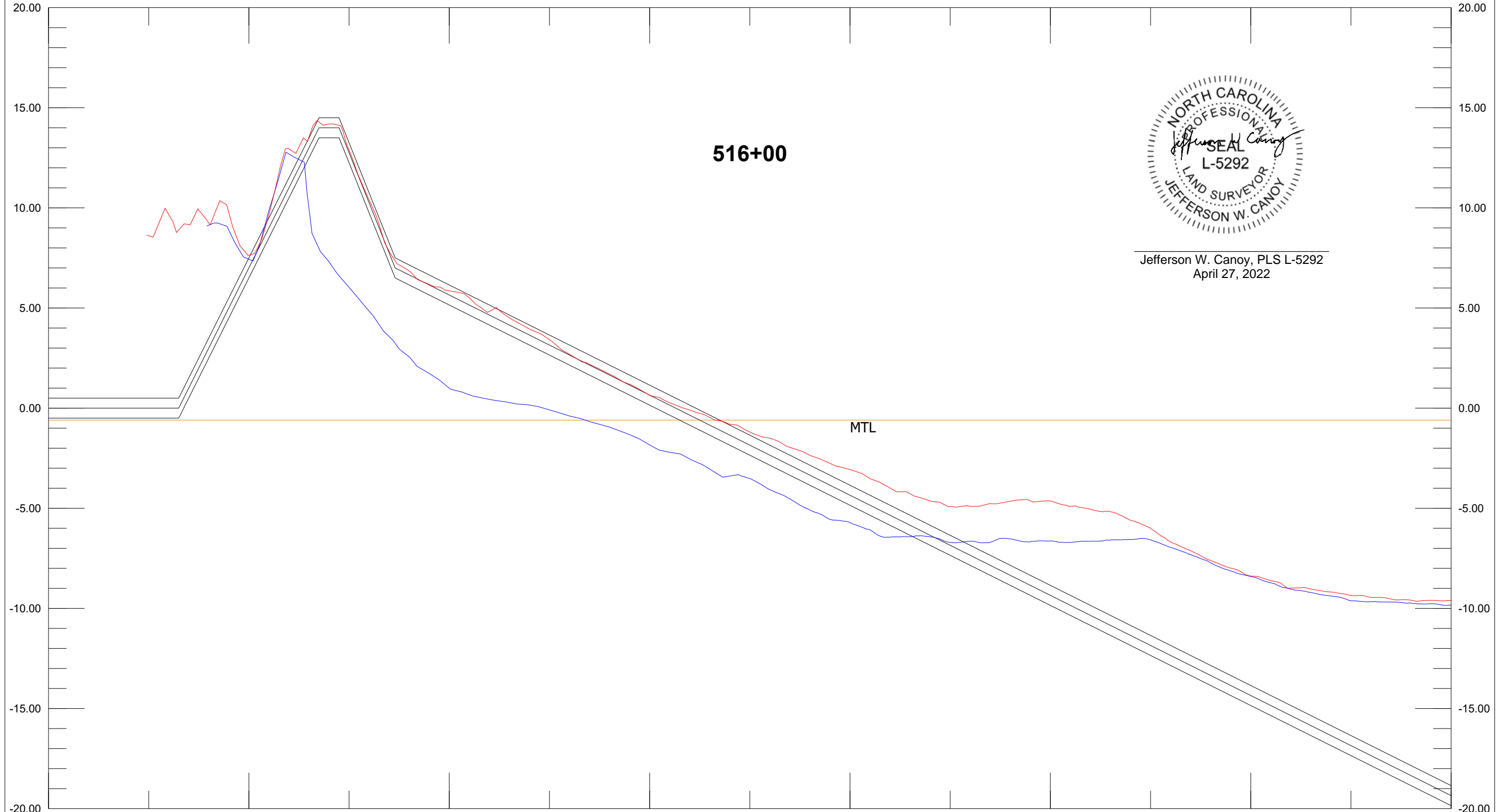
X: 2250372.04 515+00 Length: 1749.99 Azimuth: 179.60 X: 2250384.33
Y: 61115.41 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



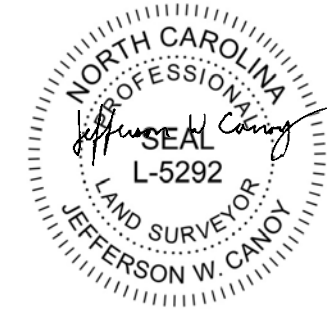
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Base Survey 515+00 AD 515+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

X: 2250272.06 516+00 Length: 1749.99 Azimuth: 179.60 X: 2250284.33
Y: 61114.71 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



516+00

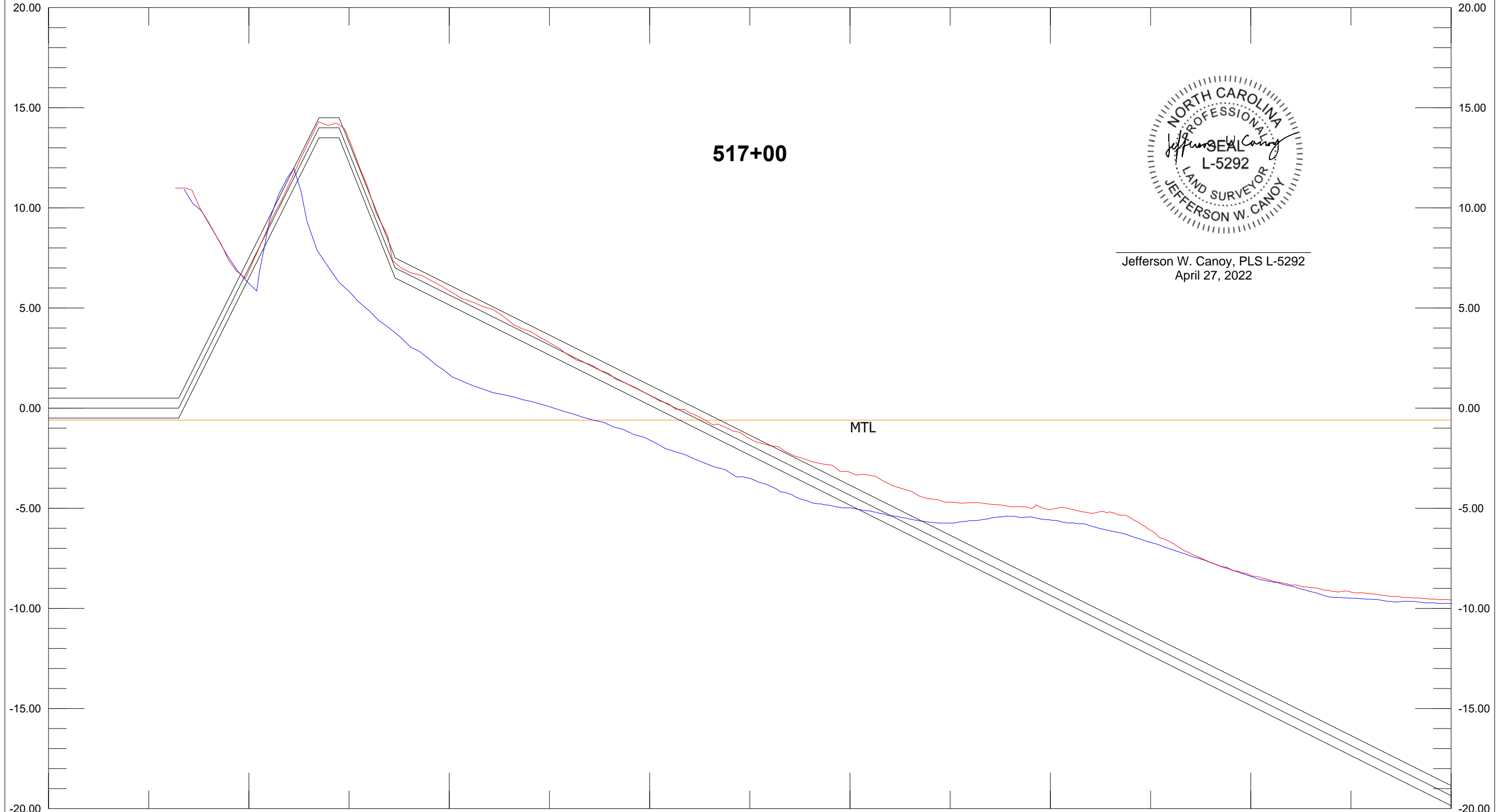


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MTL

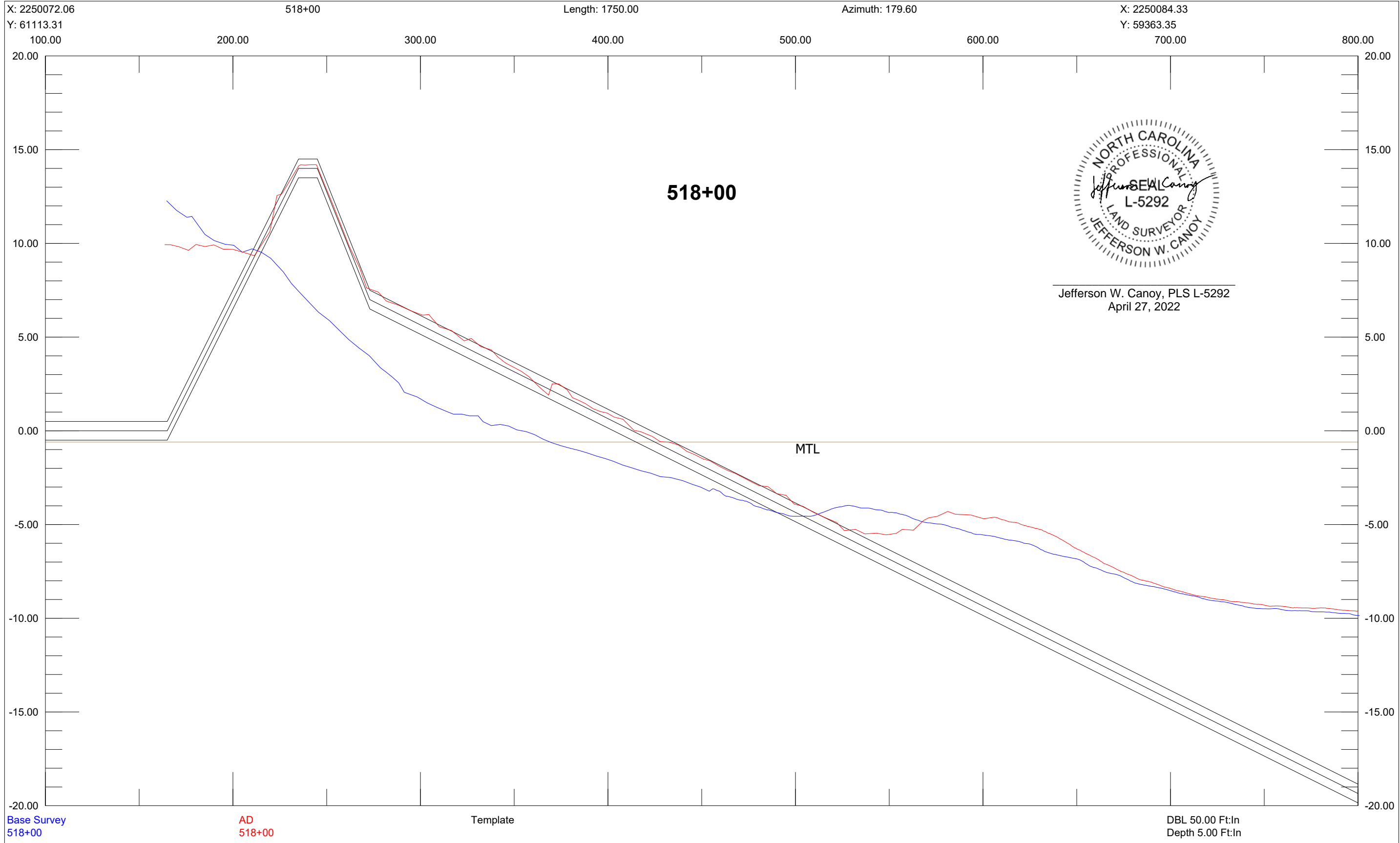
Base Survey AD Template DBL 50.00 Ft:In
516+00 516+00 Depth 5.00 Ft:In

X: 2250172.06 517+00 Length: 1749.99 Azimuth: 179.60 X: 2250184.33
Y: 61114.01 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00

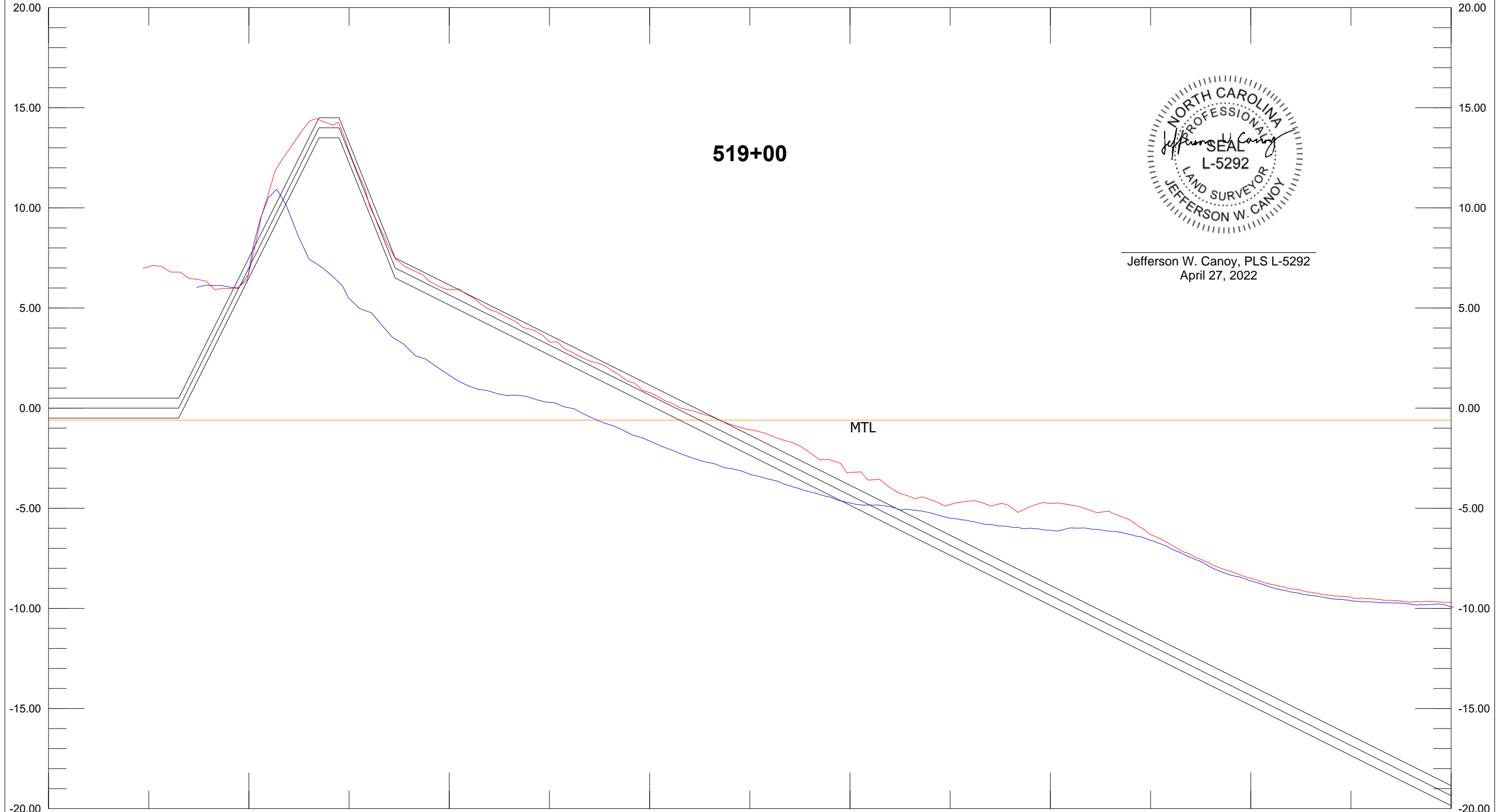


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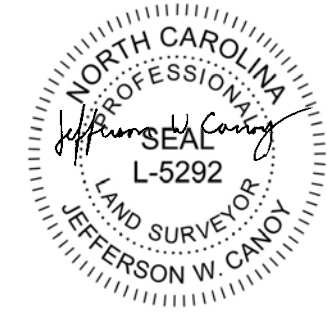
Base Survey AD Template DBL 50.00 Ft:In
517+00 517+00 Depth 5.00 Ft:In



X: 2249972.06 519+00 Length: 1750.00 Azimuth: 179.60 X: 2249984.34
Y: 61112.61 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



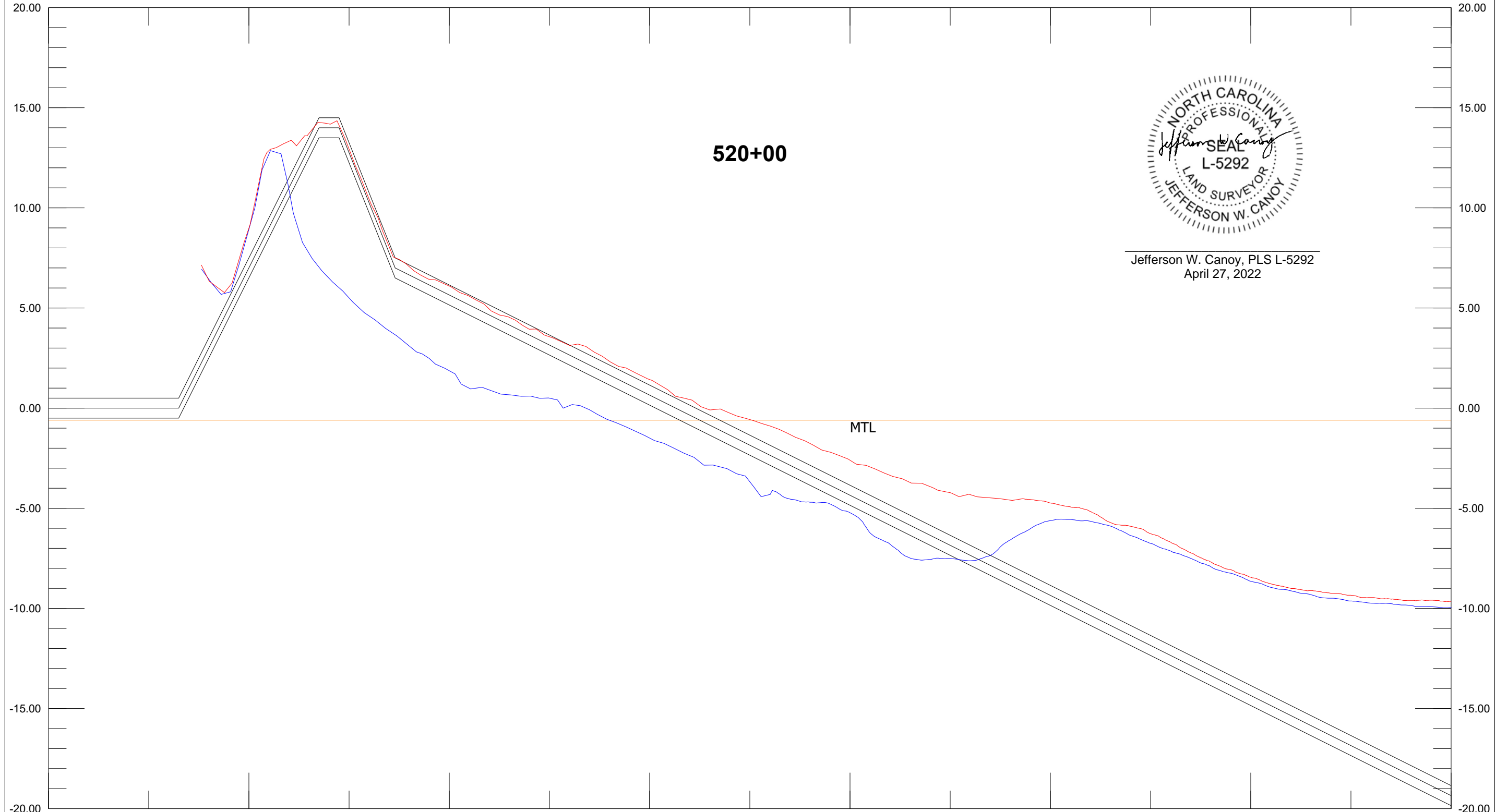
519+00



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Base Survey AD Template DBL 50.00 Ft:In
519+00 519+00 Depth 5.00 Ft:In

X: 2249872.07 520+00 Length: 1749.99 Azimuth: 179.60 X: 2249884.34
Y: 61111.90 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00

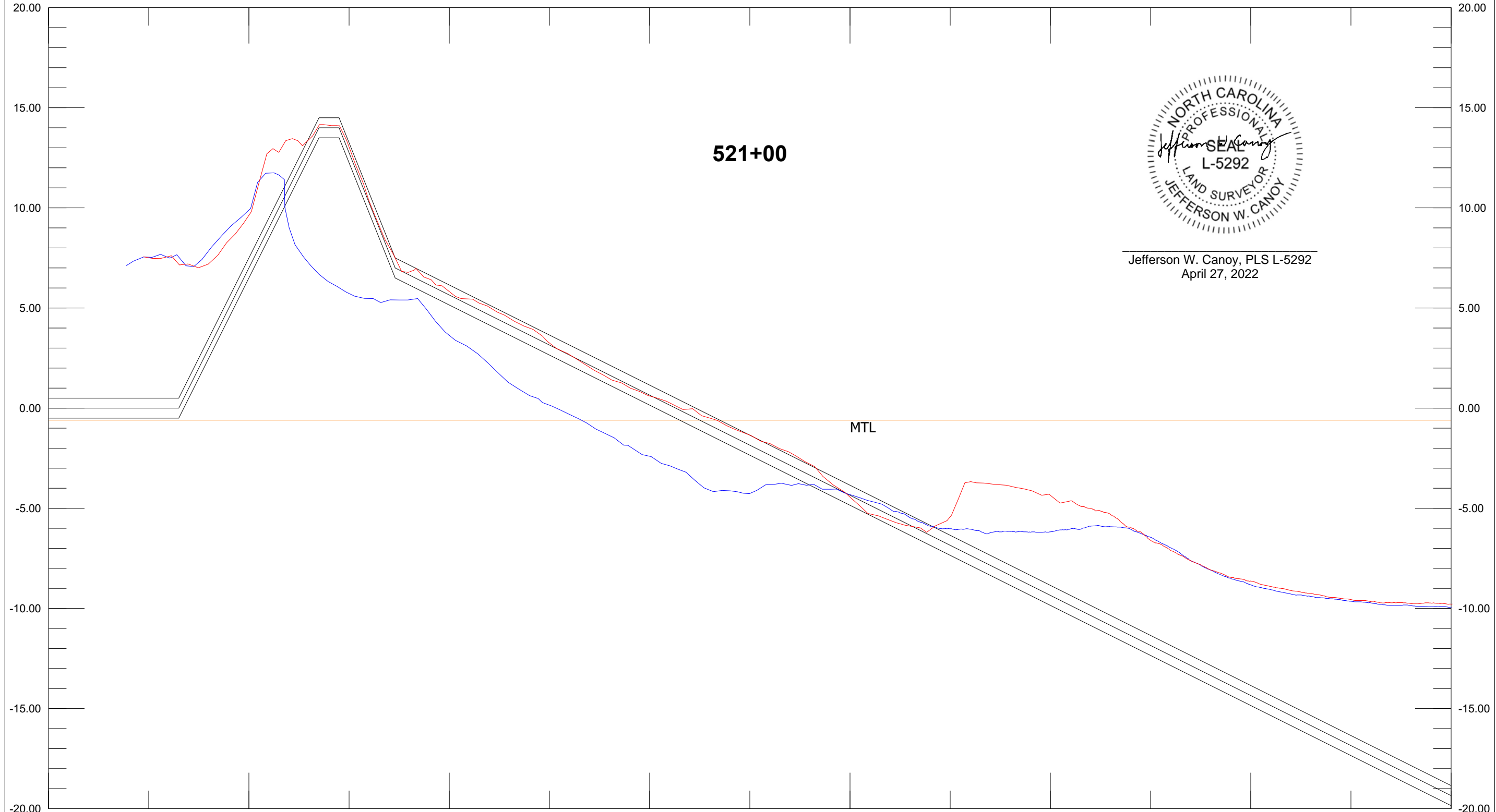


520+00



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X: 2249772.07 521+00 Length: 1749.99 Azimuth: 179.60 X: 2249784.34
Y: 61111.20 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



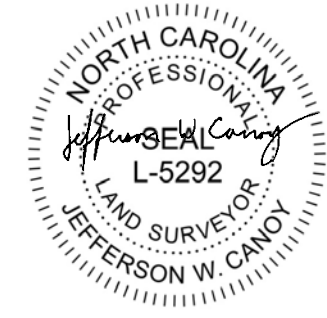
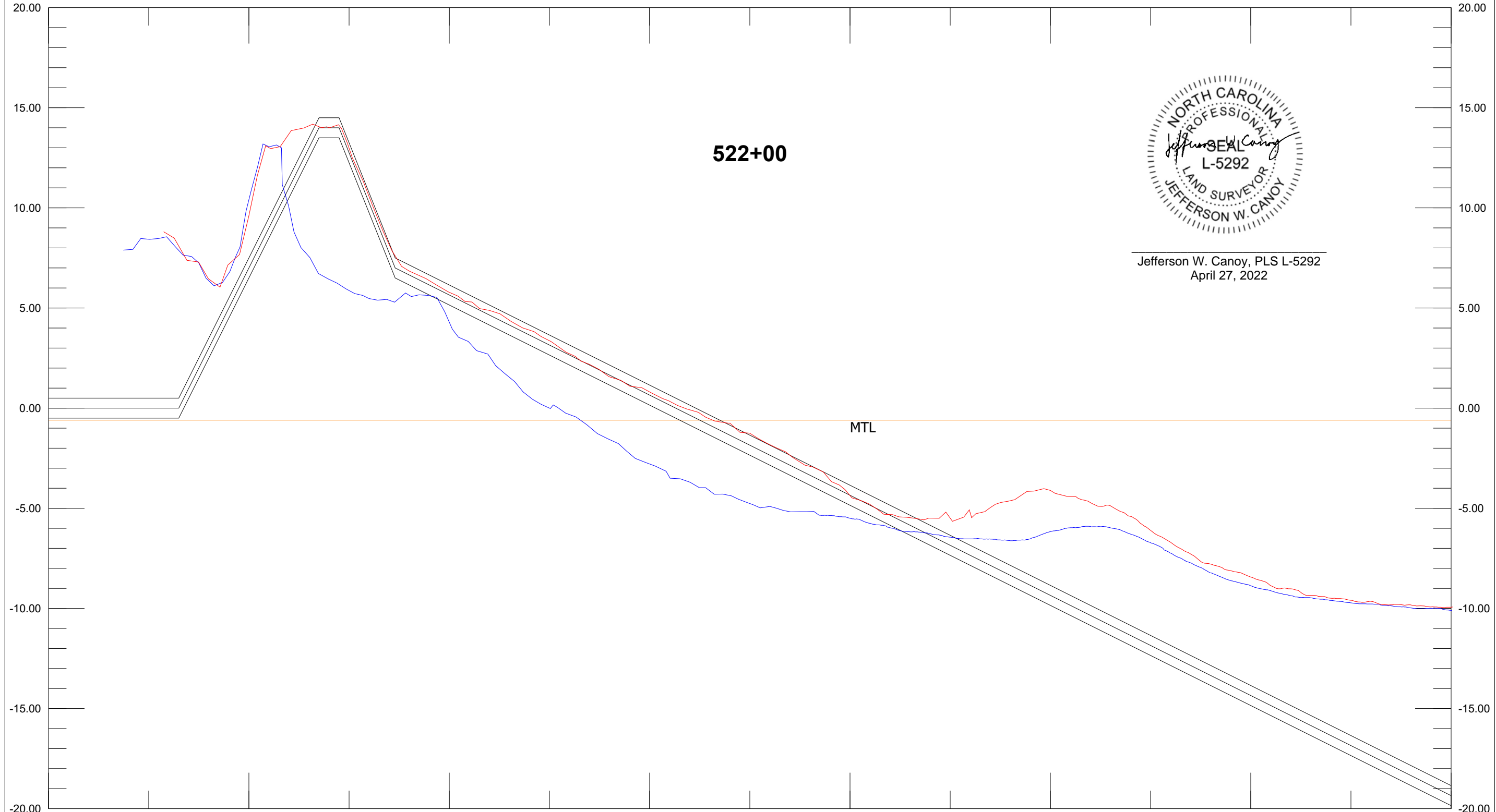
521+00



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Base Survey AD Template DBL 50.00 Ft:In
521+00 521+00 Depth 5.00 Ft:In

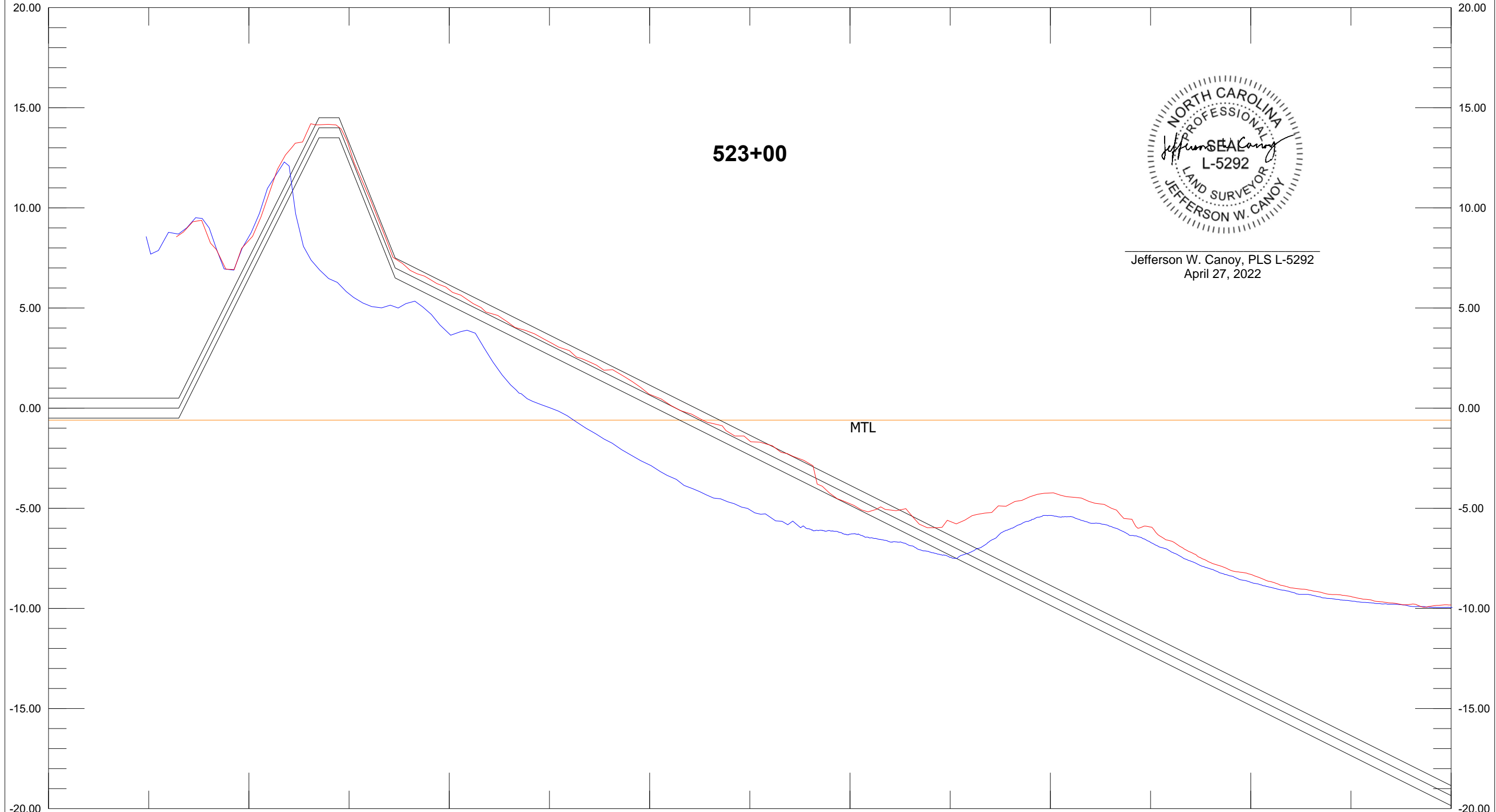
X: 2249672.07 522+00 Length: 1749.99 Azimuth: 179.60 X: 2249684.34
Y: 61110.50 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey 522+00 AD 522+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

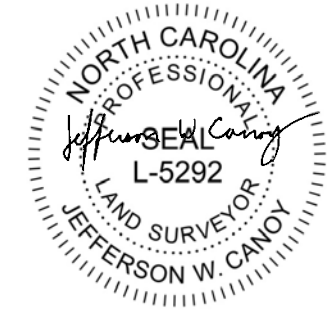
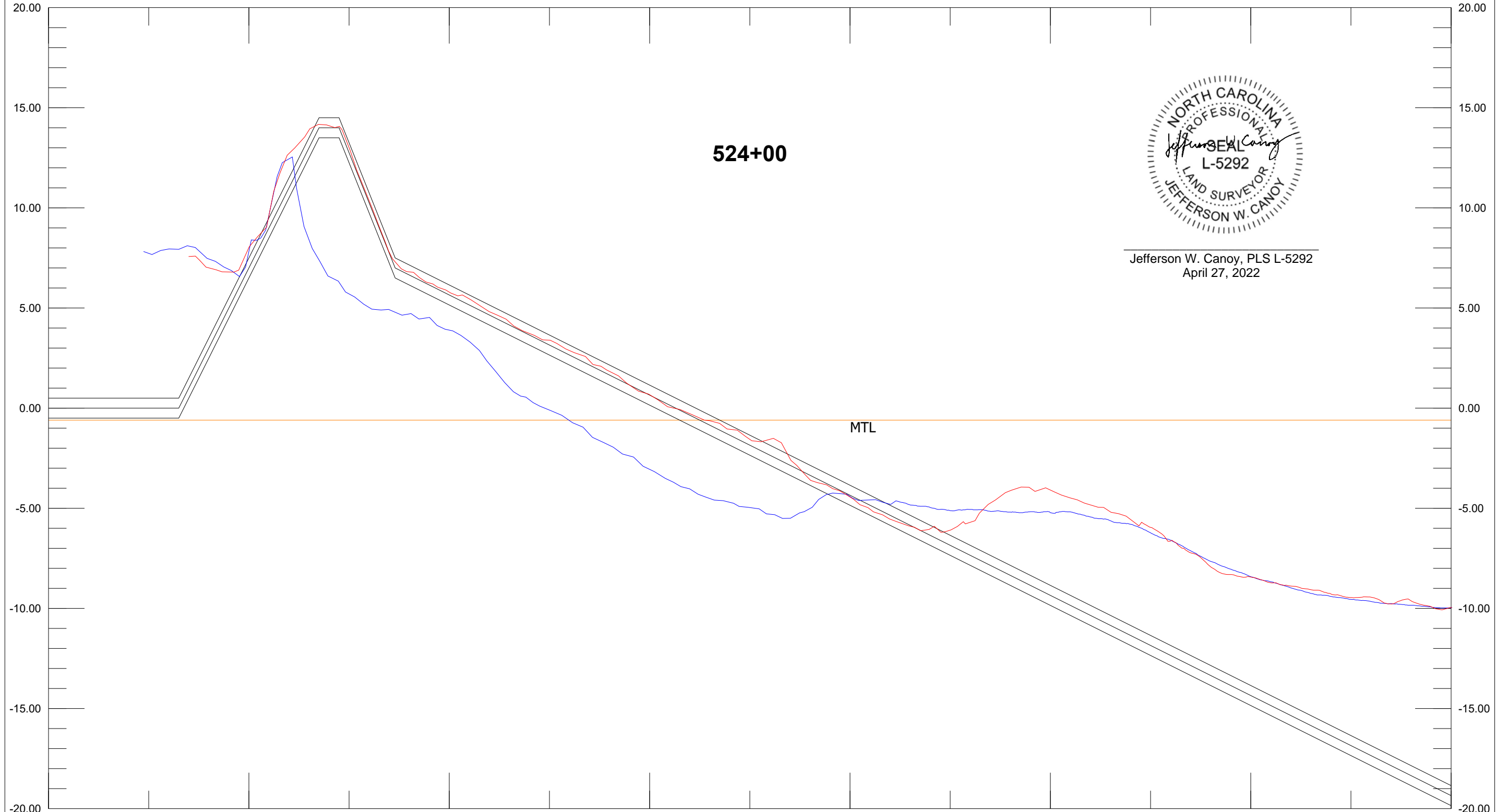
X: 2249572.06 523+00 Length: 1749.99 Azimuth: 179.60 X: 2249584.35
Y: 61109.80 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
523+00 523+00 Depth 5.00 Ft:In

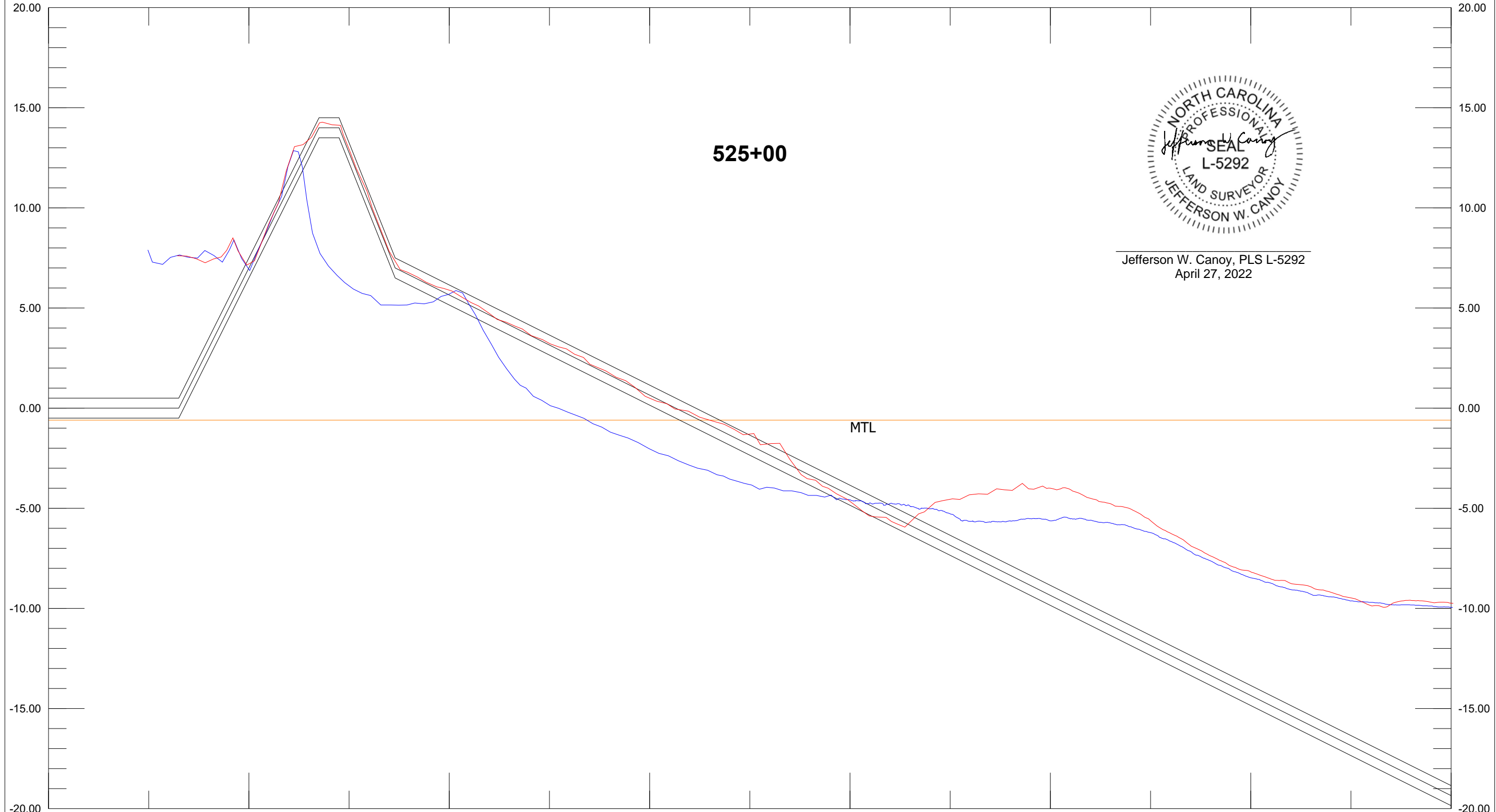
X: 2249472.08 524+00 Length: 1749.99 Azimuth: 179.60 X: 2249484.35
Y: 61109.10 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
524+00 524+00 Depth 5.00 Ft:In

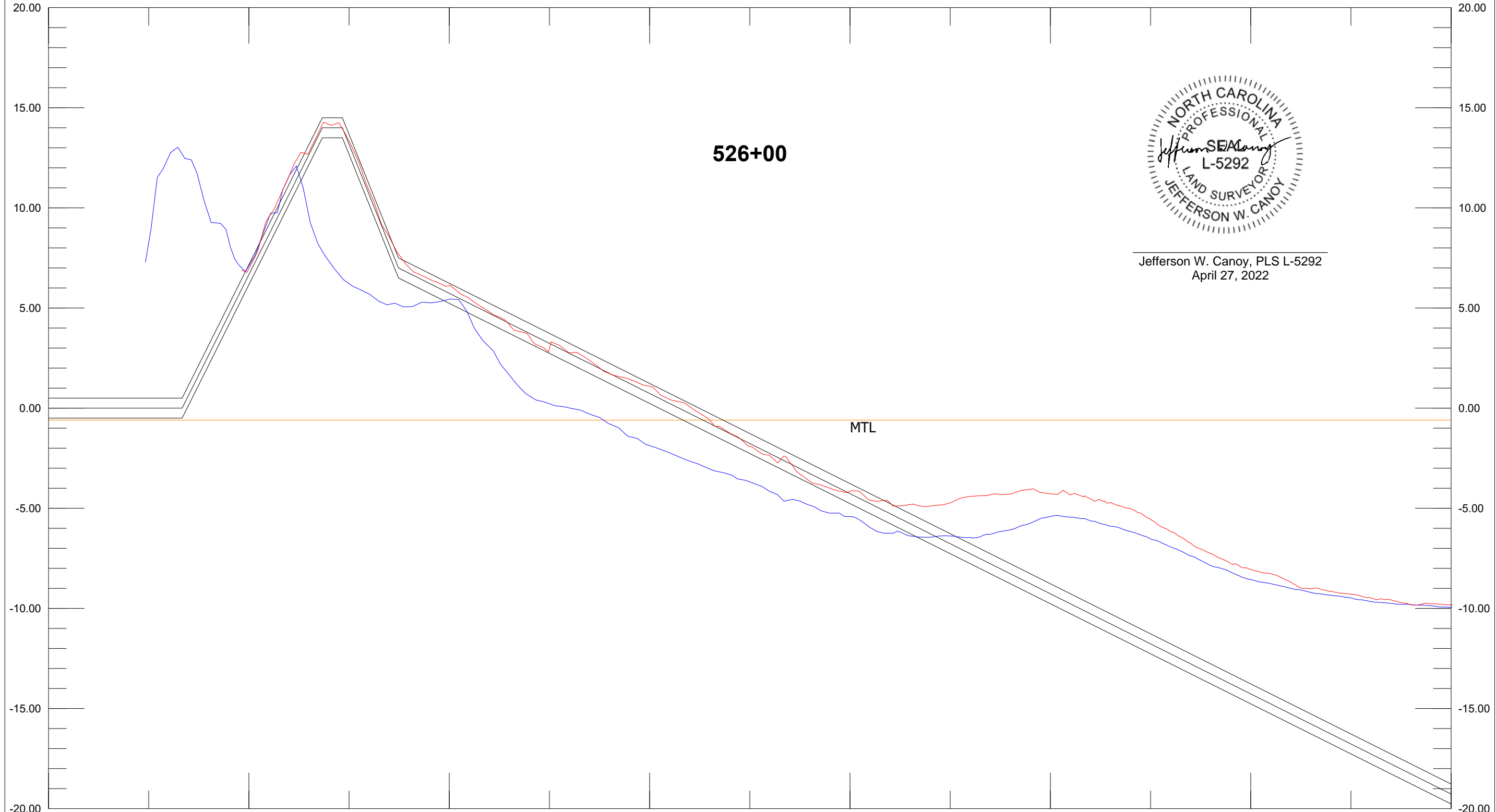
X: 2249372.08 525+00 Length: 1750.00 Azimuth: 179.60 X: 2249384.35
Y: 61108.40 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59358.44



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Base Survey AD Template DBL 50.00 Ft:In
525+00 525+00

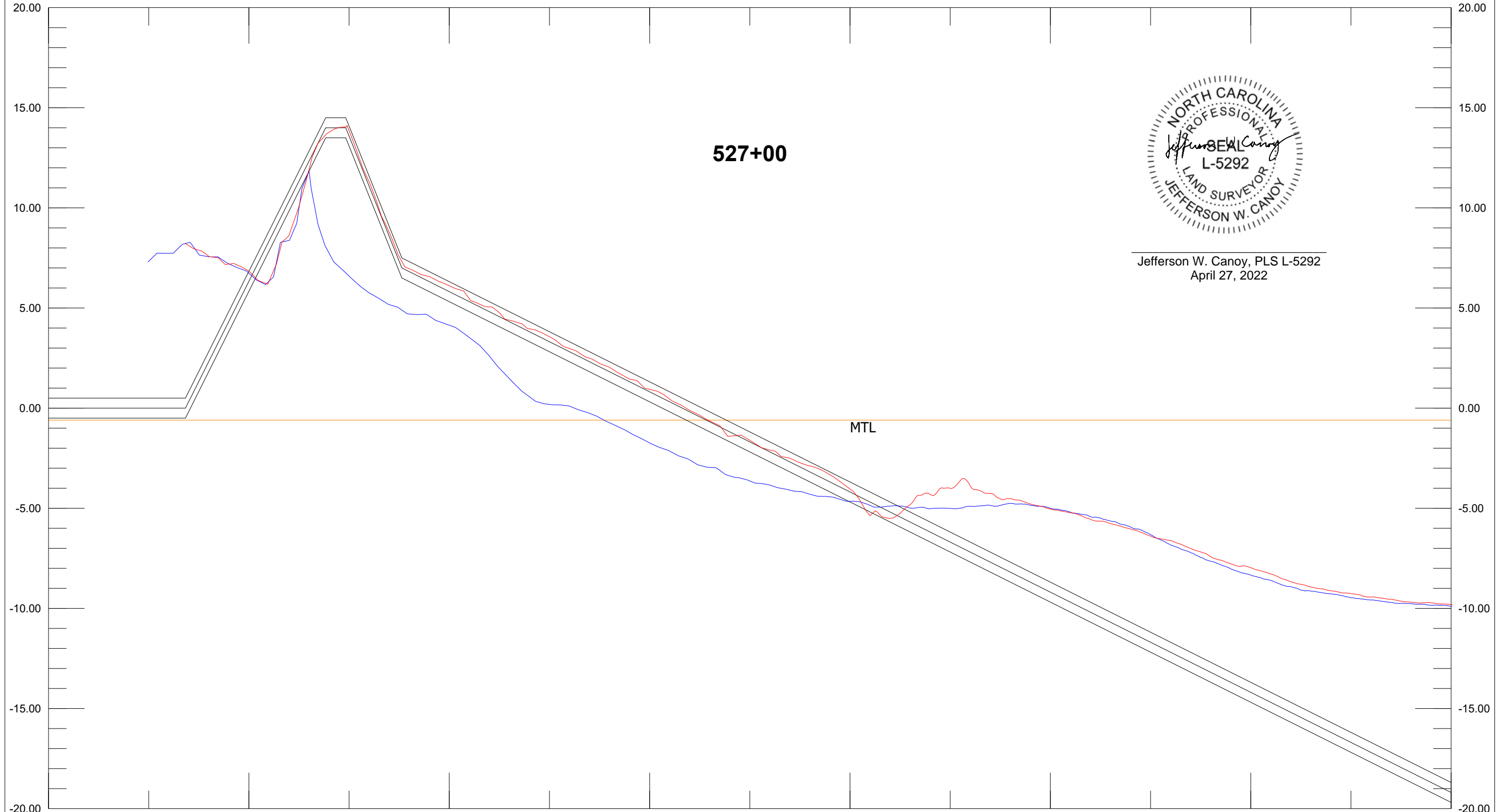
X: 2249272.08 526+00 Length: 1750.00 Azimuth: 179.60 X: 2249284.35
Y: 61107.70 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59357.74



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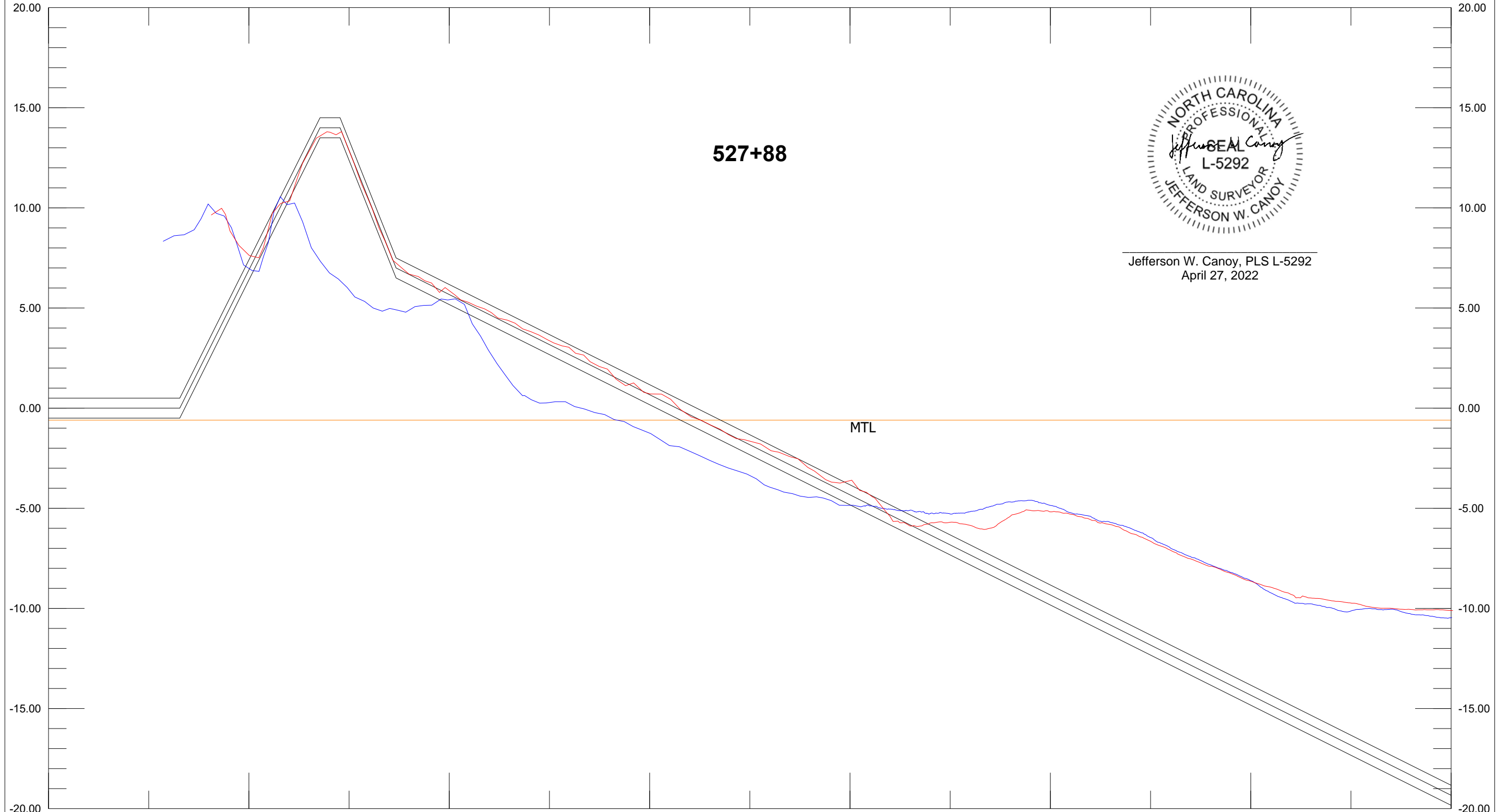
Base Survey AD Template DBL 50.00 Ft:In
526+00 526+00 Depth 5.00 Ft:In

X: 2249172.07 527+00 Length: 1749.99 Azimuth: 179.60 X: 2249184.36
Y: 61106.99 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59357.04



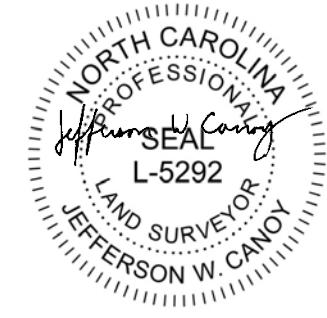
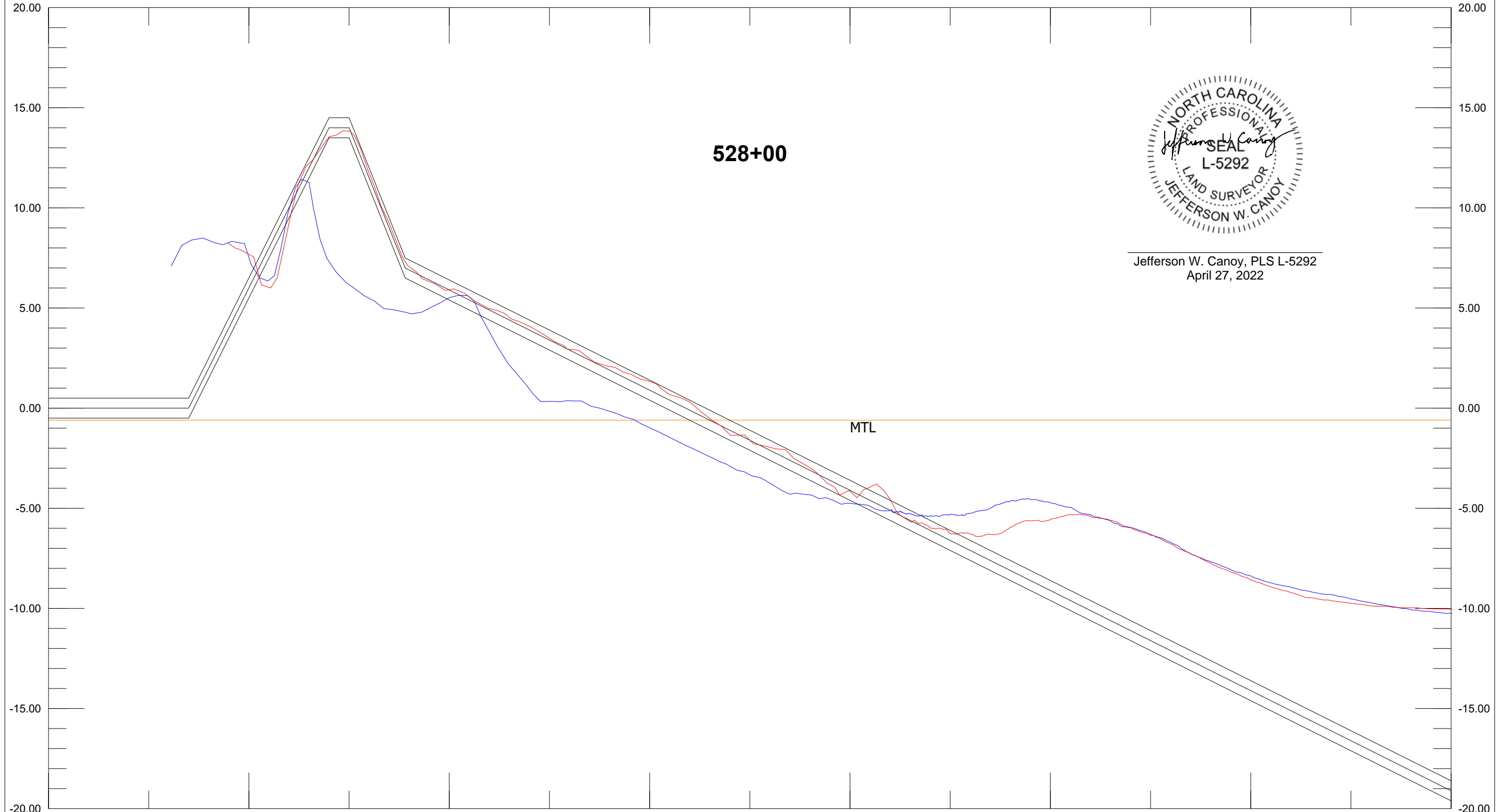
Base Survey AD Template DBL 50.00 Ft:In
527+00 527+00 Depth 5.00 Ft:In

X: 2249084.22 527+88 Length: 1749.99 Azimuth: 179.60 X: 2249096.49
Y: 61102.07 Y: 59352.12
100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



Base Survey AD Template DBL 50.00 Ft:In
527+88 527+88 Depth 5.00 Ft:In

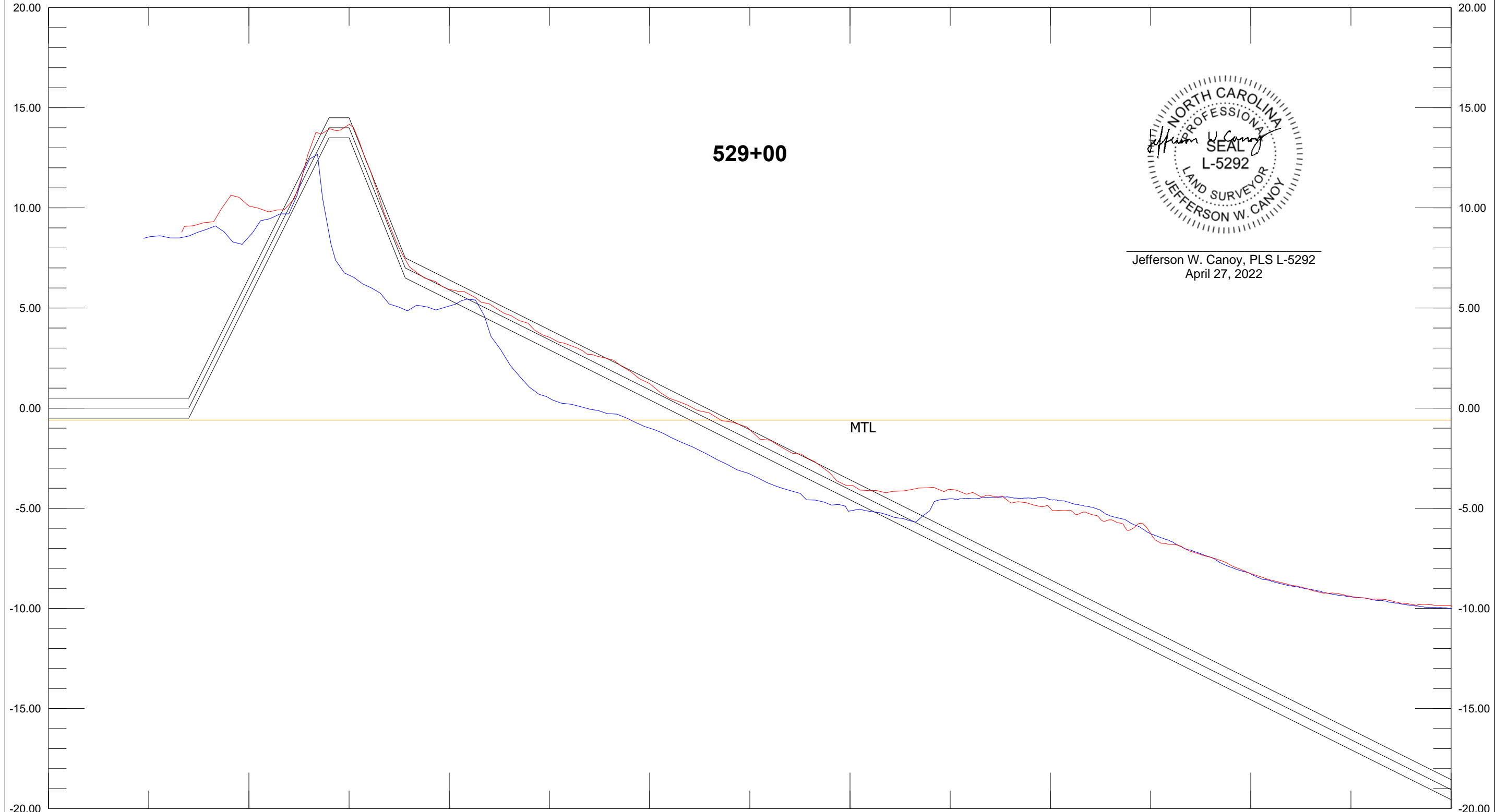
X: 2249071.75 528+00 Length: 1749.99 Azimuth: 179.60 X: 2249084.02
Y: 61106.29 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
528+00 528+00

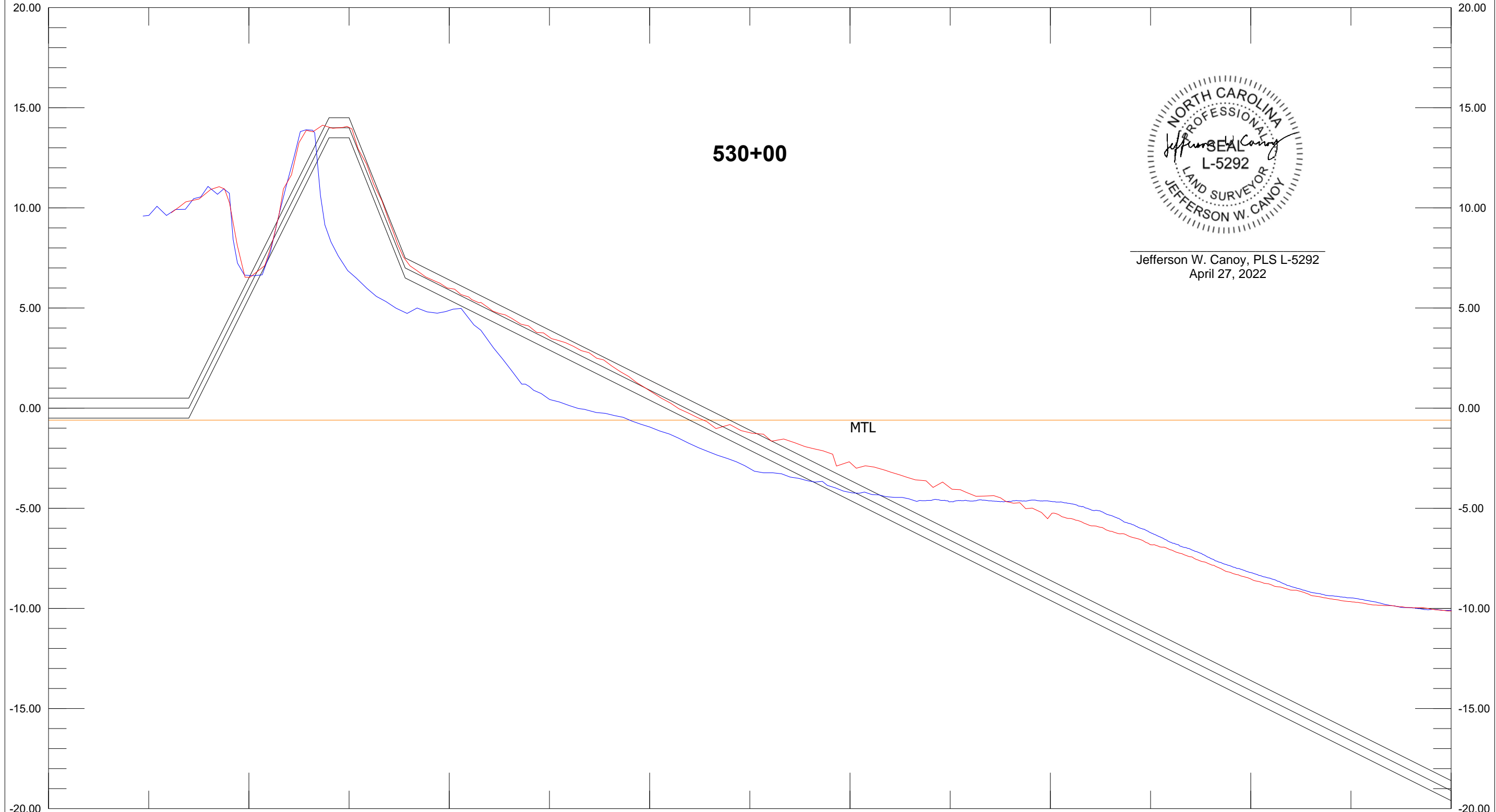
X: 2248964.63 529+00 Length: 1750.01 Azimuth: 177.95 X: 2249027.10
Y: 61108.65 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59359.76



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Base Survey AD Template DBL 50.00 Ft:In
529+00 529+00

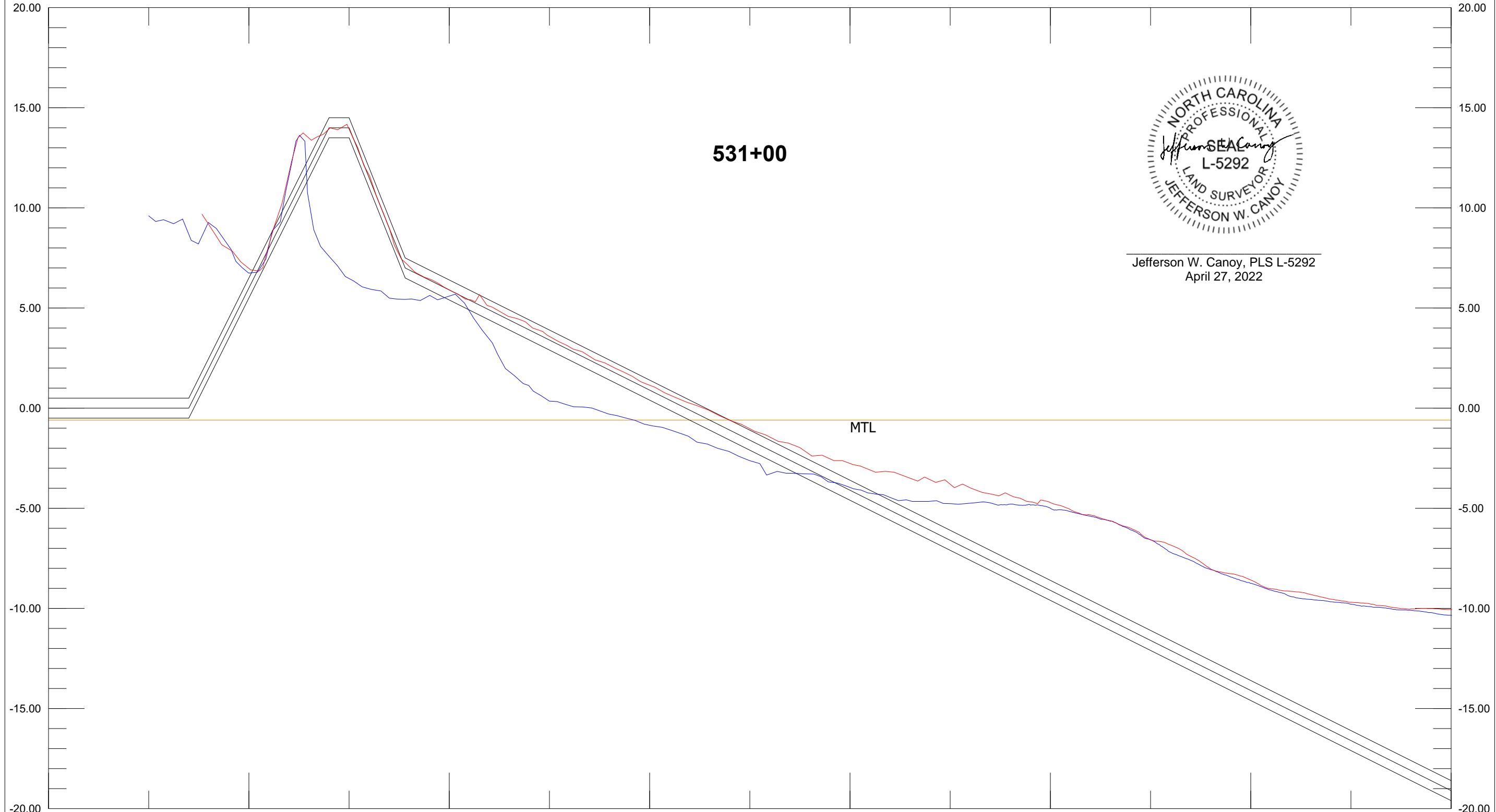
X: 2248861.92 530+00 Length: 1750.00 Azimuth: 177.24 X: 2248946.32
Y: 61103.71 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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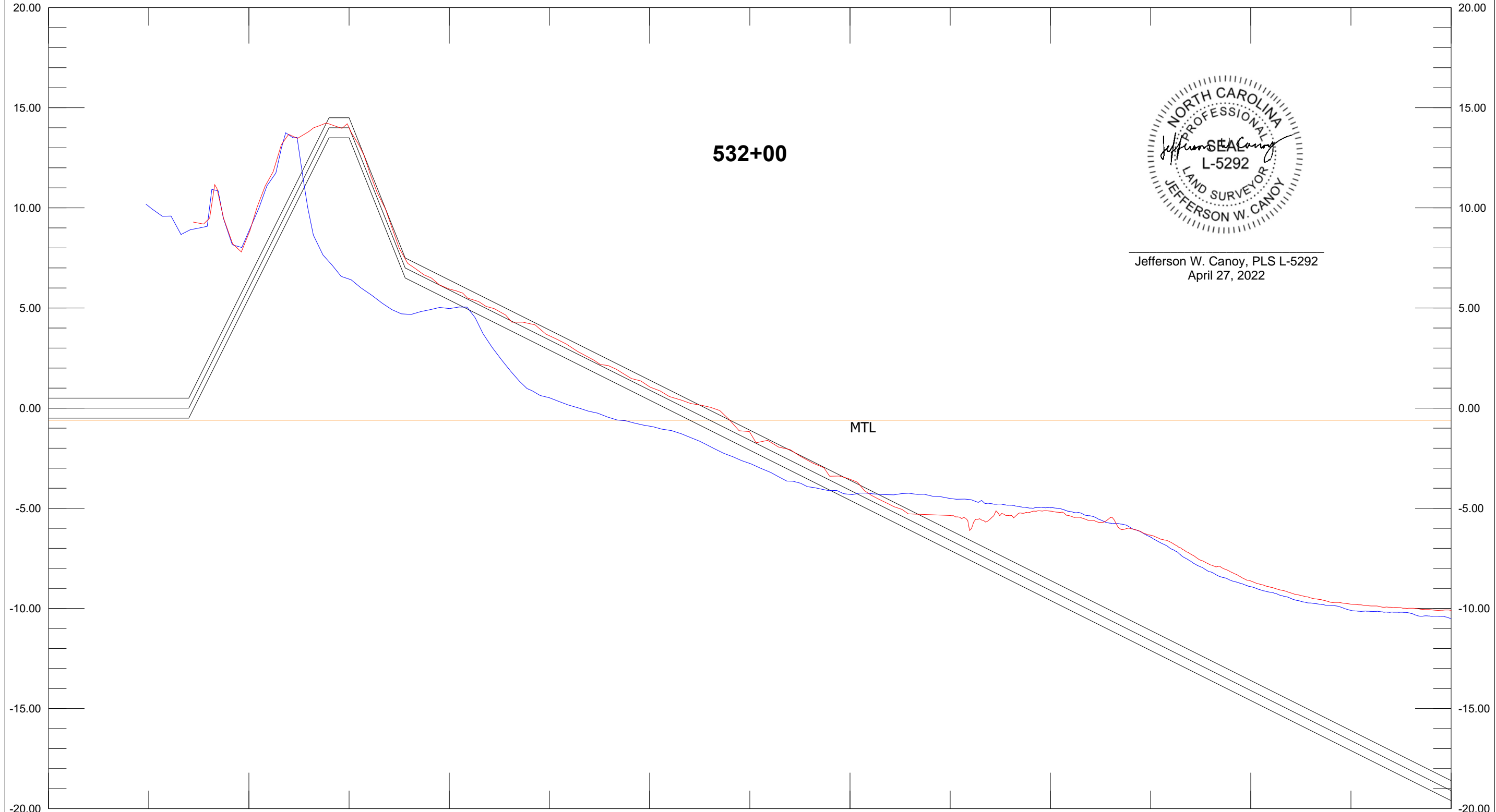
Base Survey AD Template DBL 50.00 Ft:In
530+00 530+00 Depth 5.00 Ft:In

X: 2248762.04 531+00 Length: 1750.00 Azimuth: 177.24 X: 2248846.43
Y: 61098.89 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



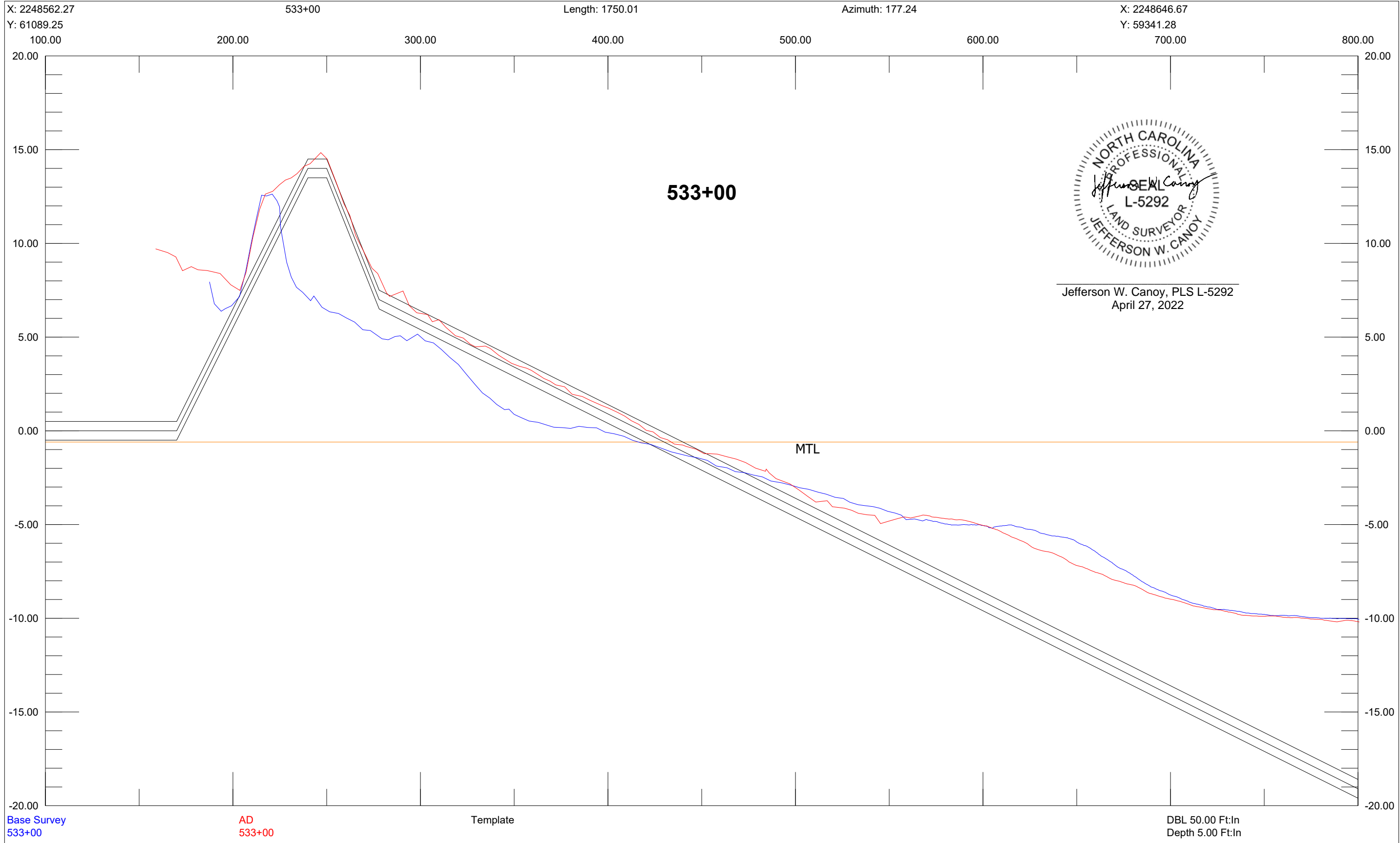
Base Survey AD Template DBL 50.00 Ft:In
531+00 531+00 Depth 5.00 Ft:In

X: 2248662.17 532+00 Length: 1750.01 Azimuth: 177.24 X: 2248746.55
Y: 61094.07 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59346.10

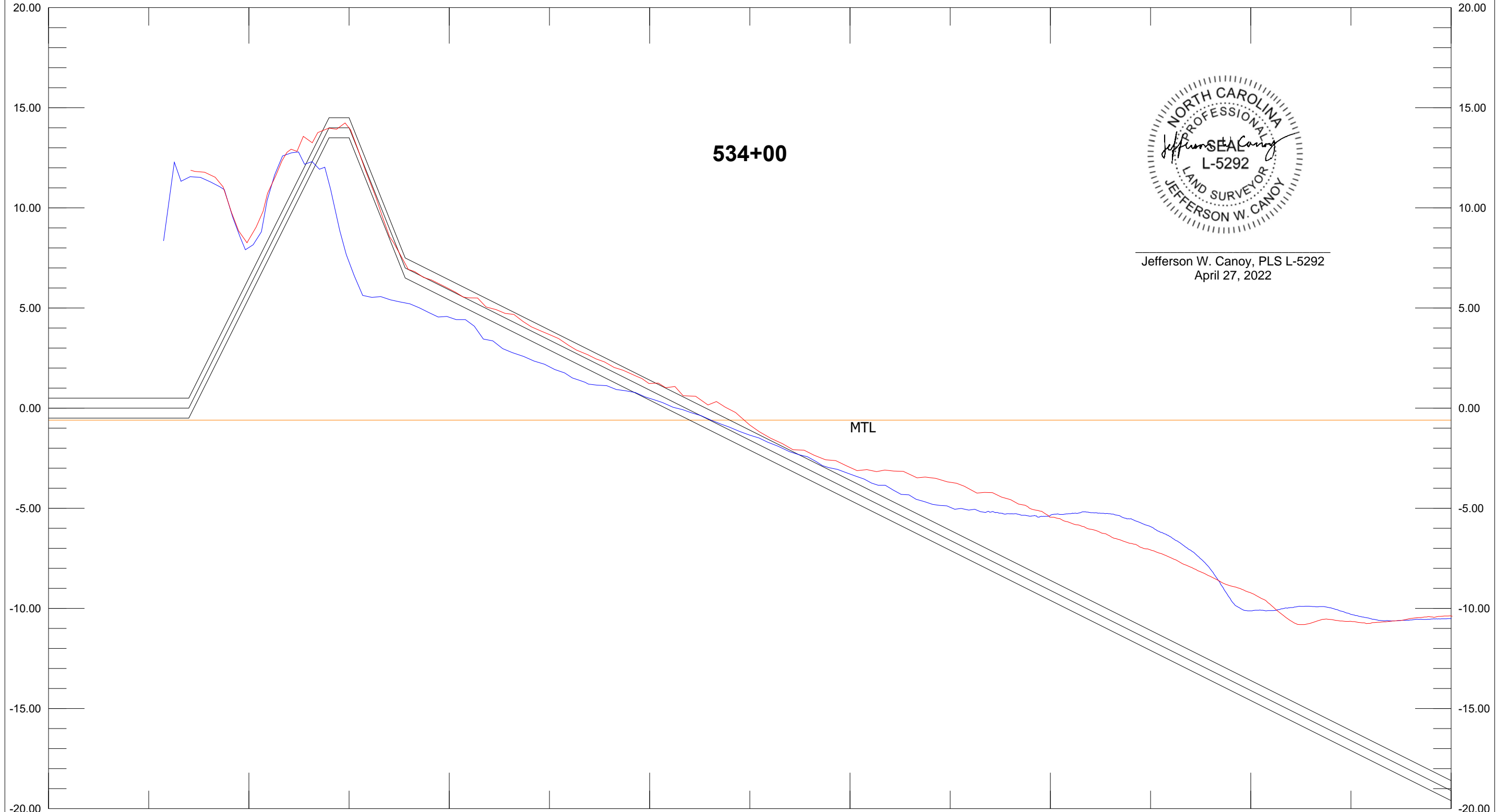


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Base Survey 532+00 AD 532+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In



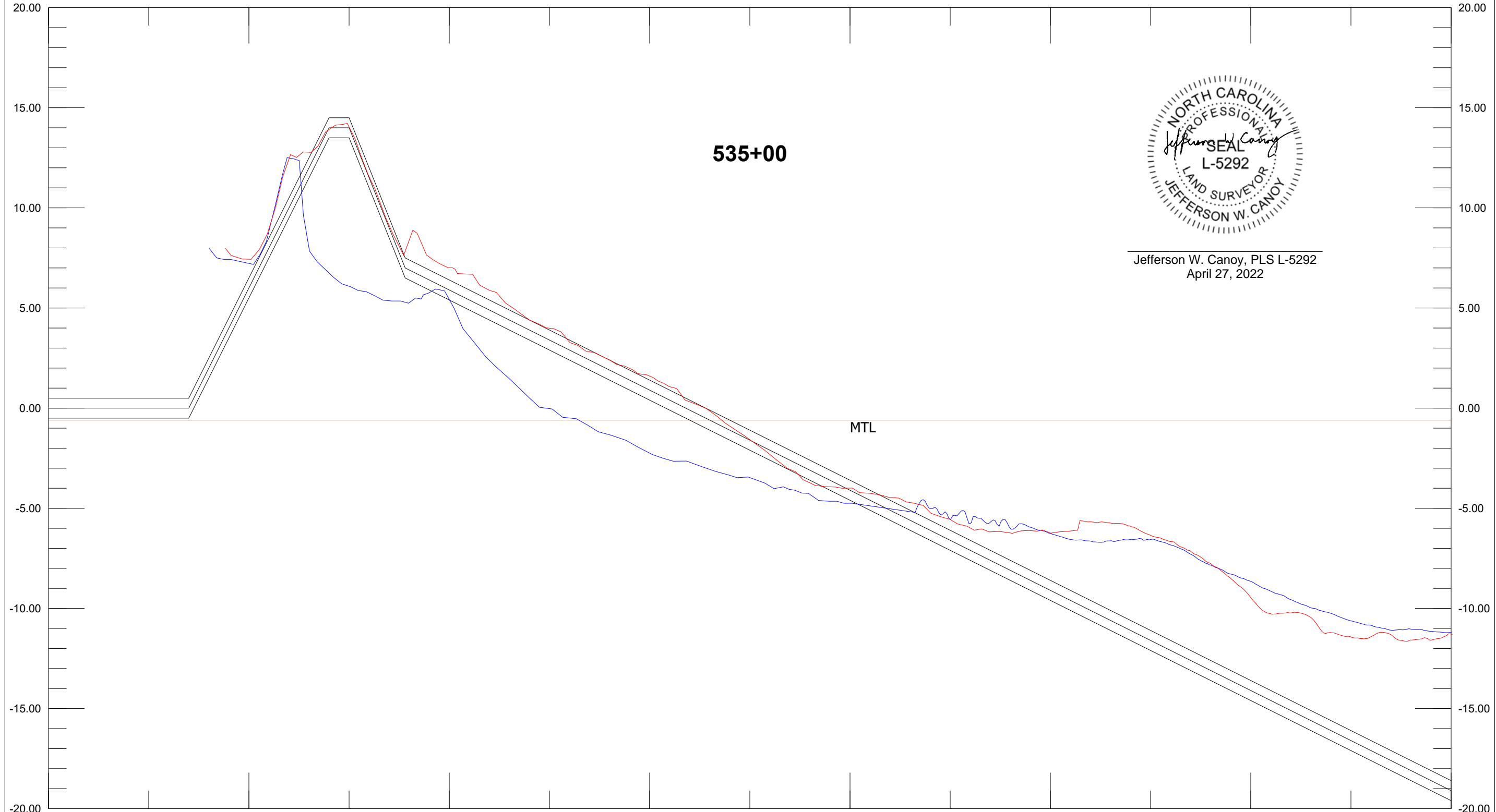
X: 2248462.39 534+00 Length: 1750.00 Azimuth: 177.24 X: 2248546.78
Y: 61084.42 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59336.46



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Base Survey AD Template DBL 50.00 Ft:In
534+00 534+00 Depth 5.00 Ft:In

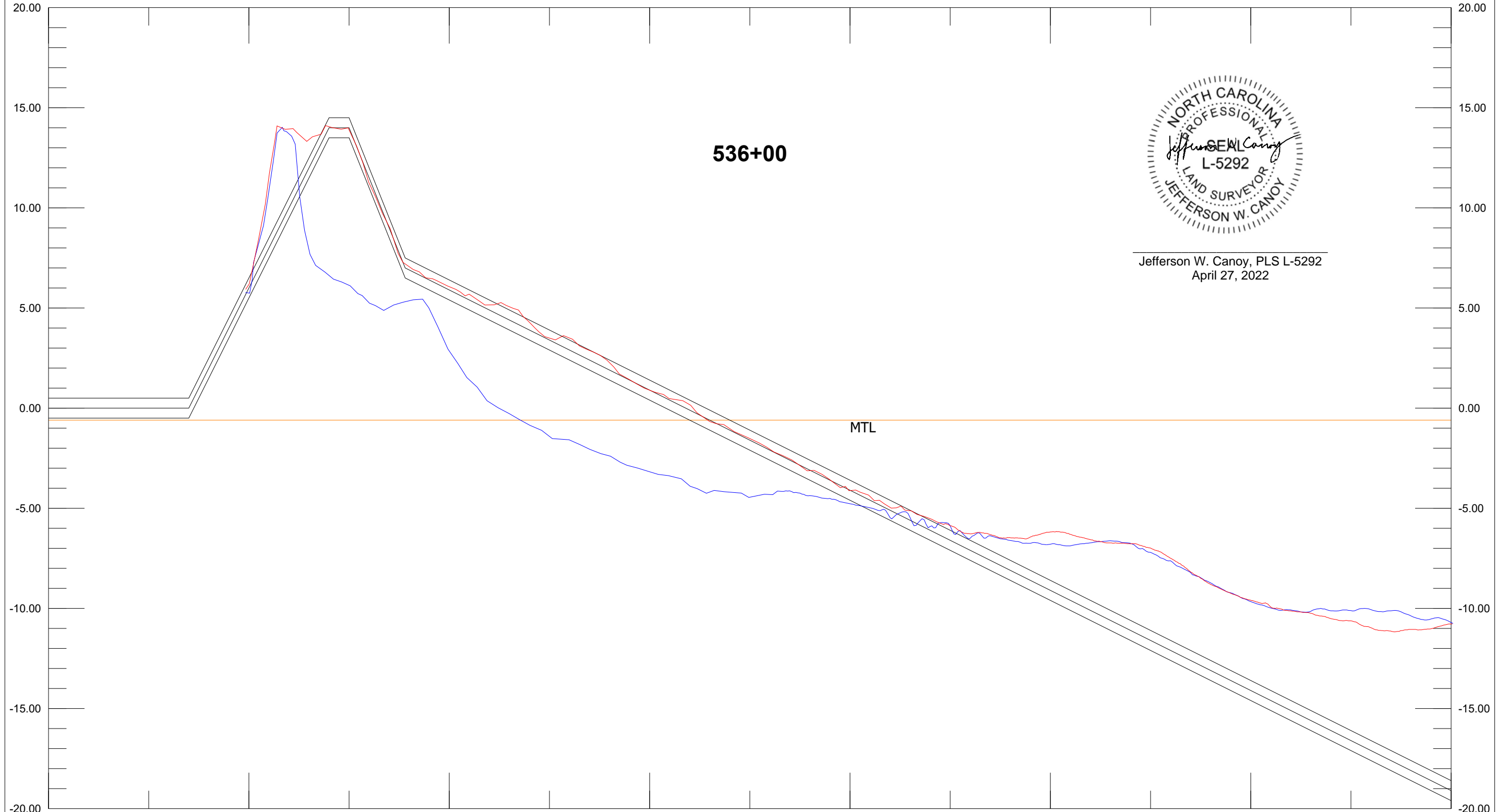
X: 2248362.51 535+00 Length: 1750.00 Azimuth: 177.24 X: 2248446.90
Y: 61079.60 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
535+00 535+00 Depth 5.00 Ft:In

X: 2248262.62 536+00 Length: 1750.01 Azimuth: 177.24 X: 2248347.02
Y: 61074.78 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59326.81



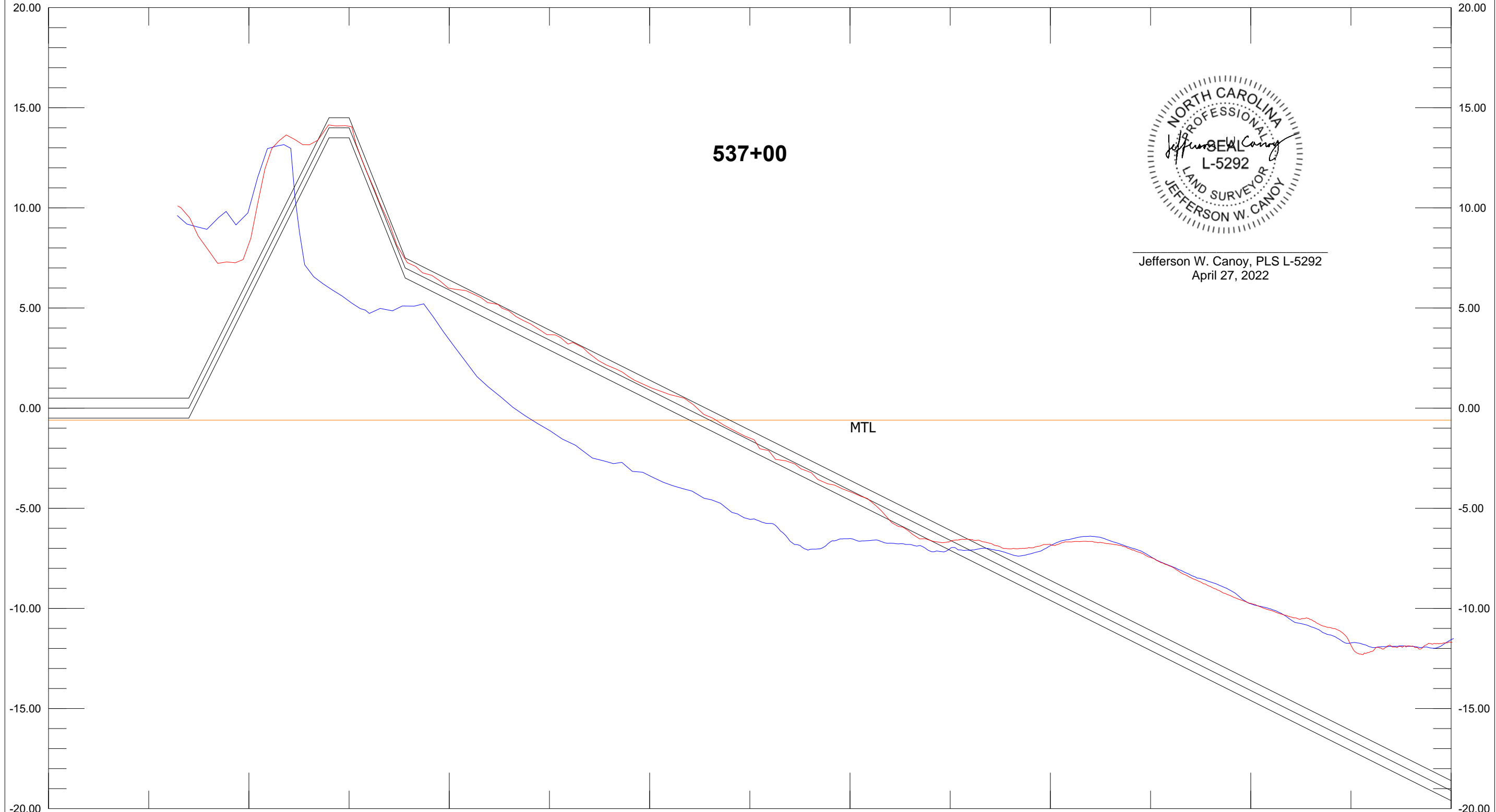
536+00



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Base Survey AD Template DBL 50.00 Ft:In
536+00 536+00 Depth 5.00 Ft:In

X: 2248162.75 537+00 Length: 1750.01 Azimuth: 177.24 X: 2248247.13
Y: 61069.96 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



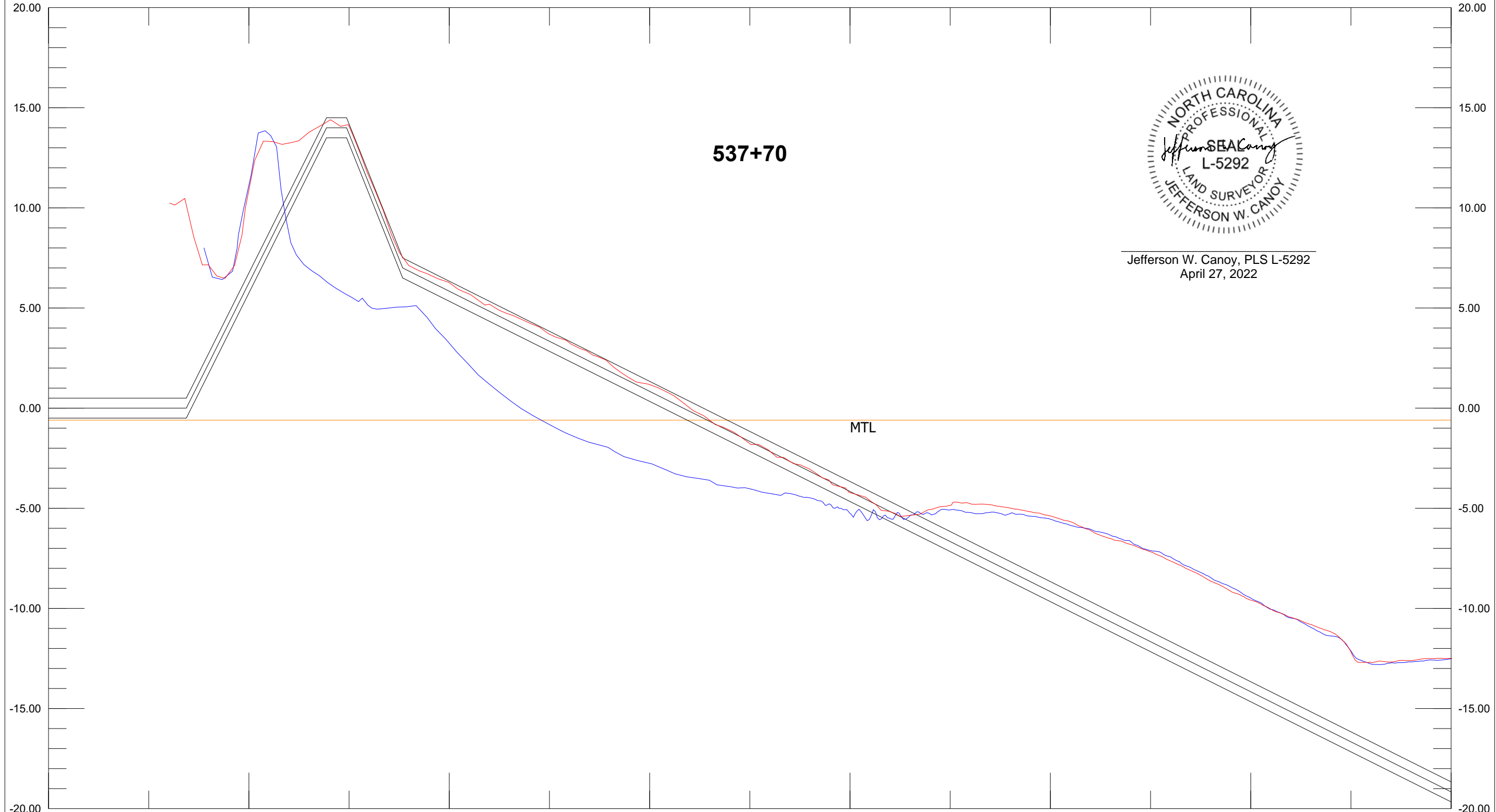
537+00



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Base Survey AD Template DBL 50.00 Ft:In
537+00 537+00 Depth 5.00 Ft:In

X: 2248092.43 537+70 Length: 1750.00 Azimuth: 177.52 X: 2248168.23
Y: 61065.34 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



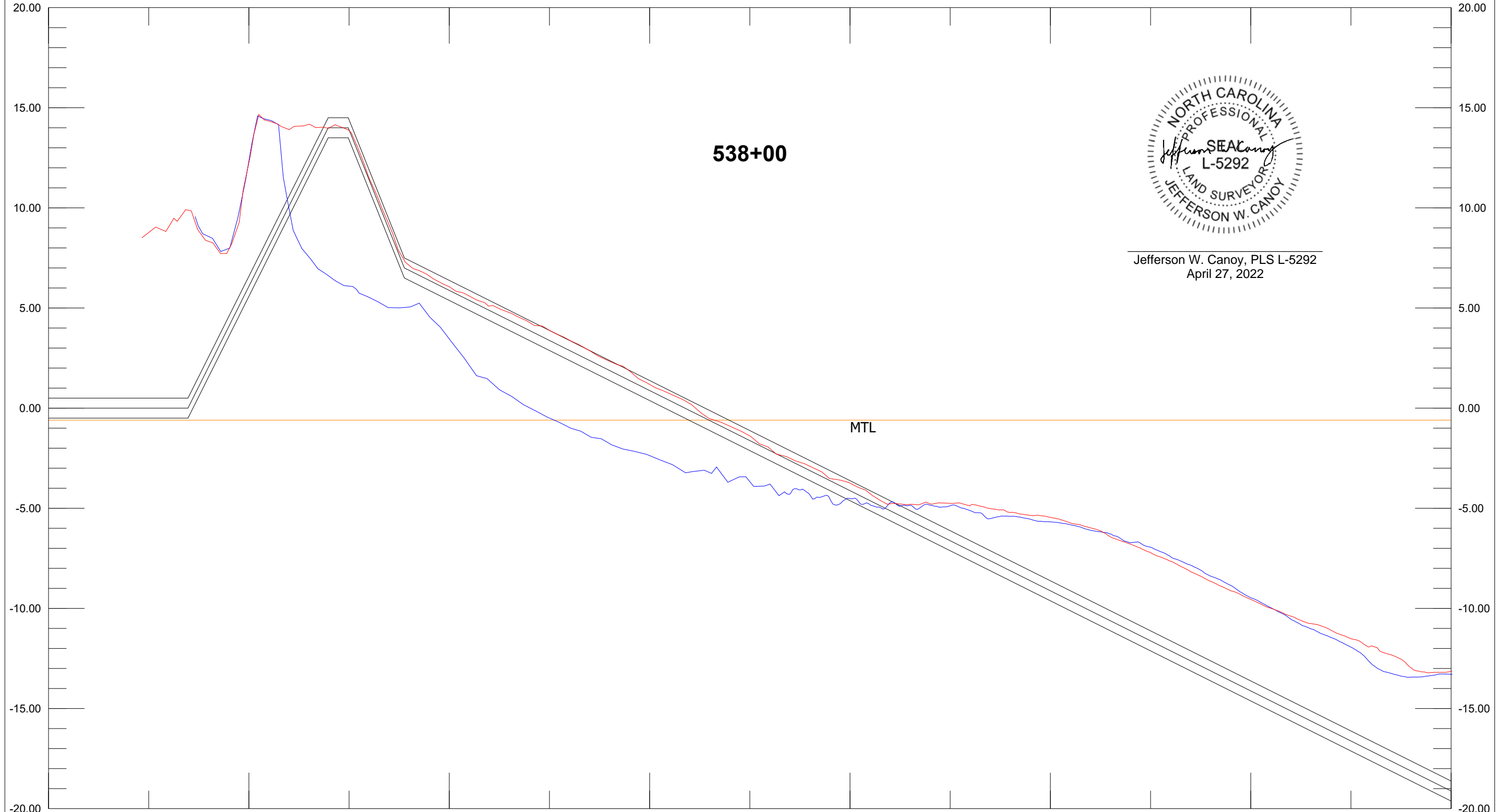
537+70



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Base Survey AD Template DBL 50.00 Ft:In
537+70 537+70 Depth 5.00 Ft:In

X: 2248064.08 538+00 Length: 1750.00 Azimuth: 177.52 X: 2248139.88
Y: 61065.34 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



538+00



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Base Survey
538+00

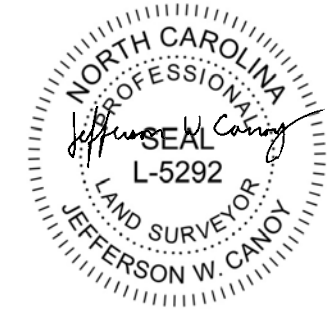
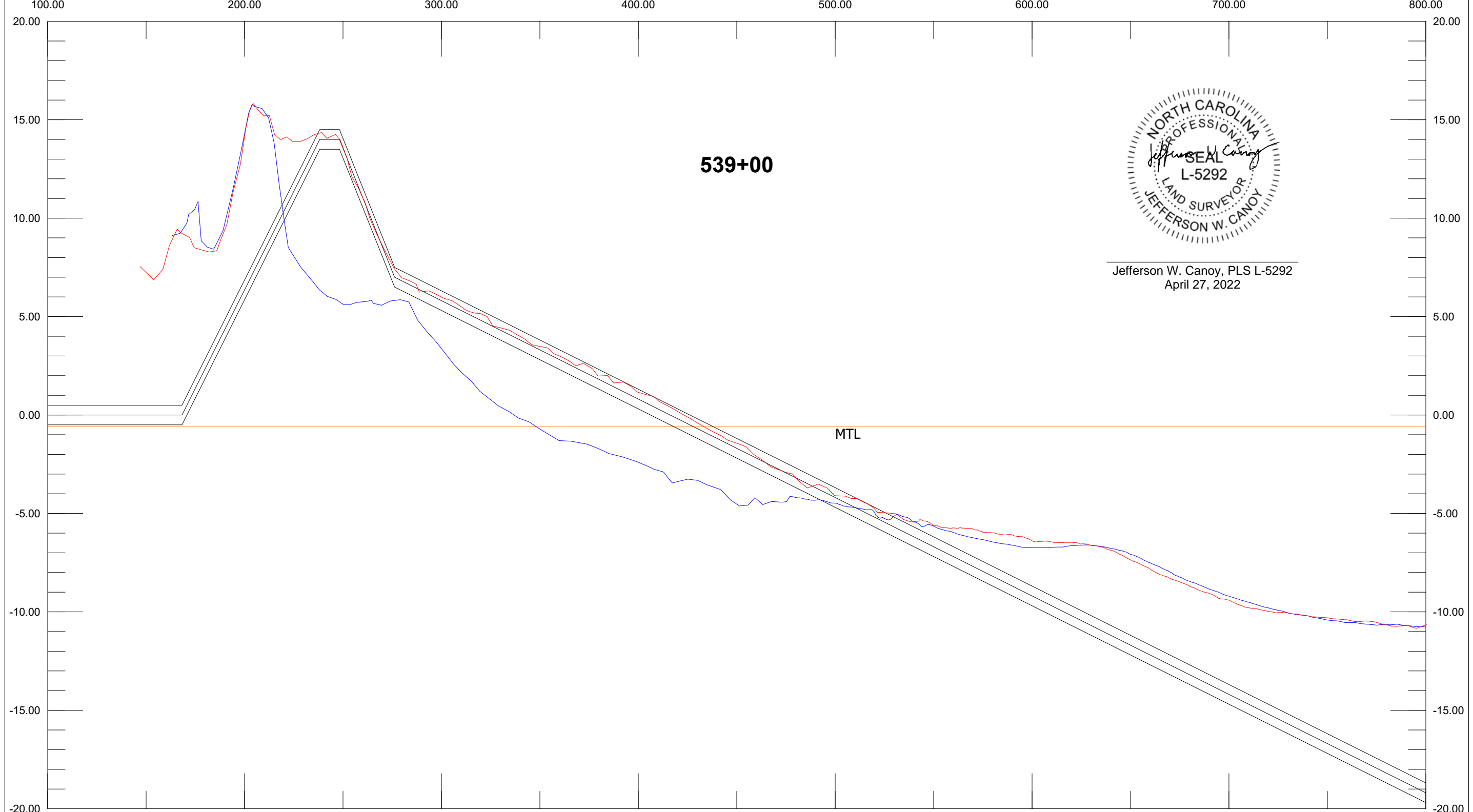
AD
538+00

Template

DBL 50.00 Ft:In
Depth 5.00 Ft:In

X: 2247964.17 539+00 Length: 1750.00 Azimuth: 177.52 X: 2248039.97

Y: 61061.01 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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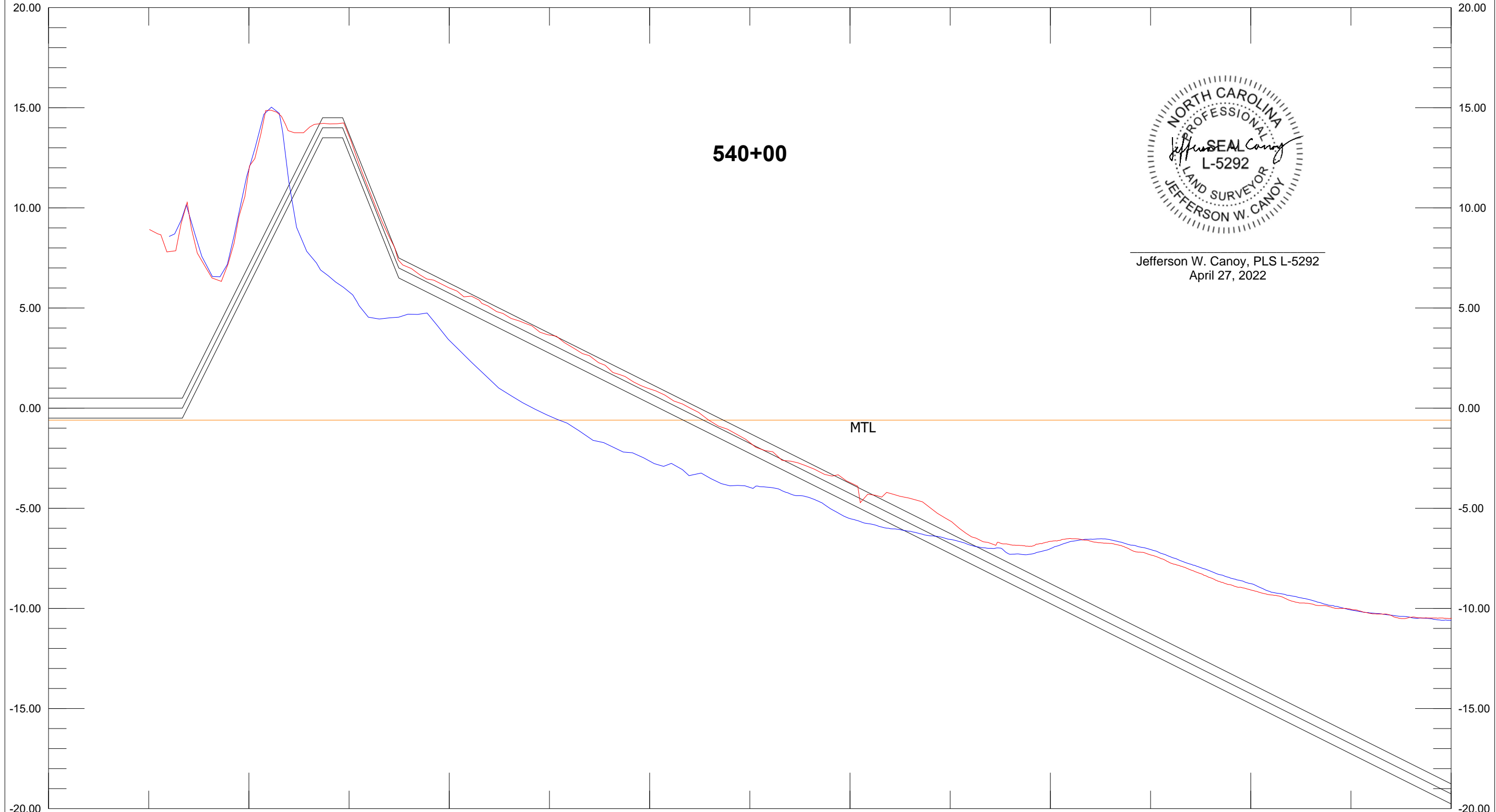
Base Survey
539+00

AD
539+00

Template

DBL 50.00 Ft:In
Depth 5.00 Ft:In

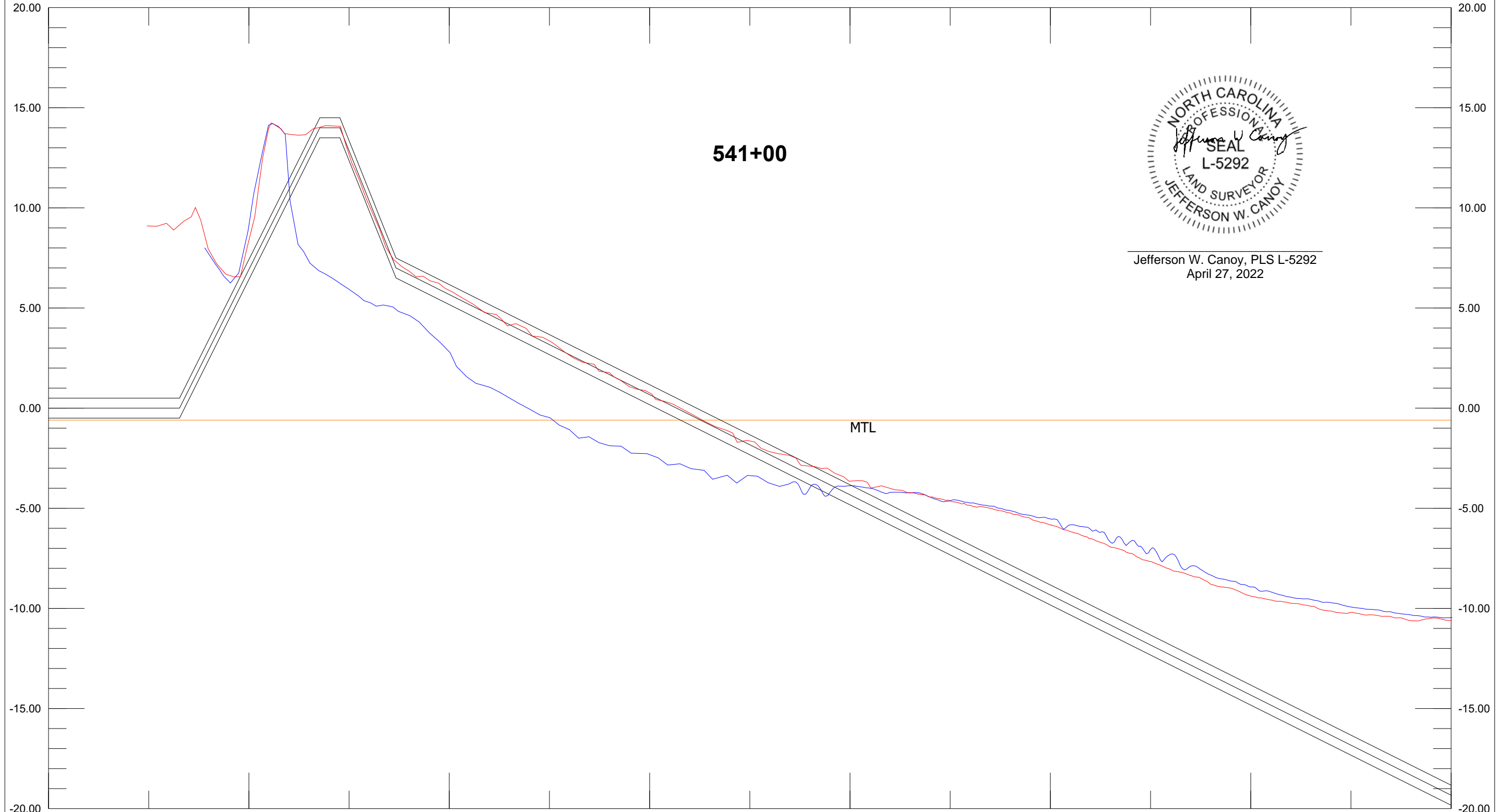
X: 2247864.27 540+00 Length: 1750.00 Azimuth: 177.52 X: 2247940.07
Y: 61056.68 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
540+00 540+00 Depth 5.00 Ft:In

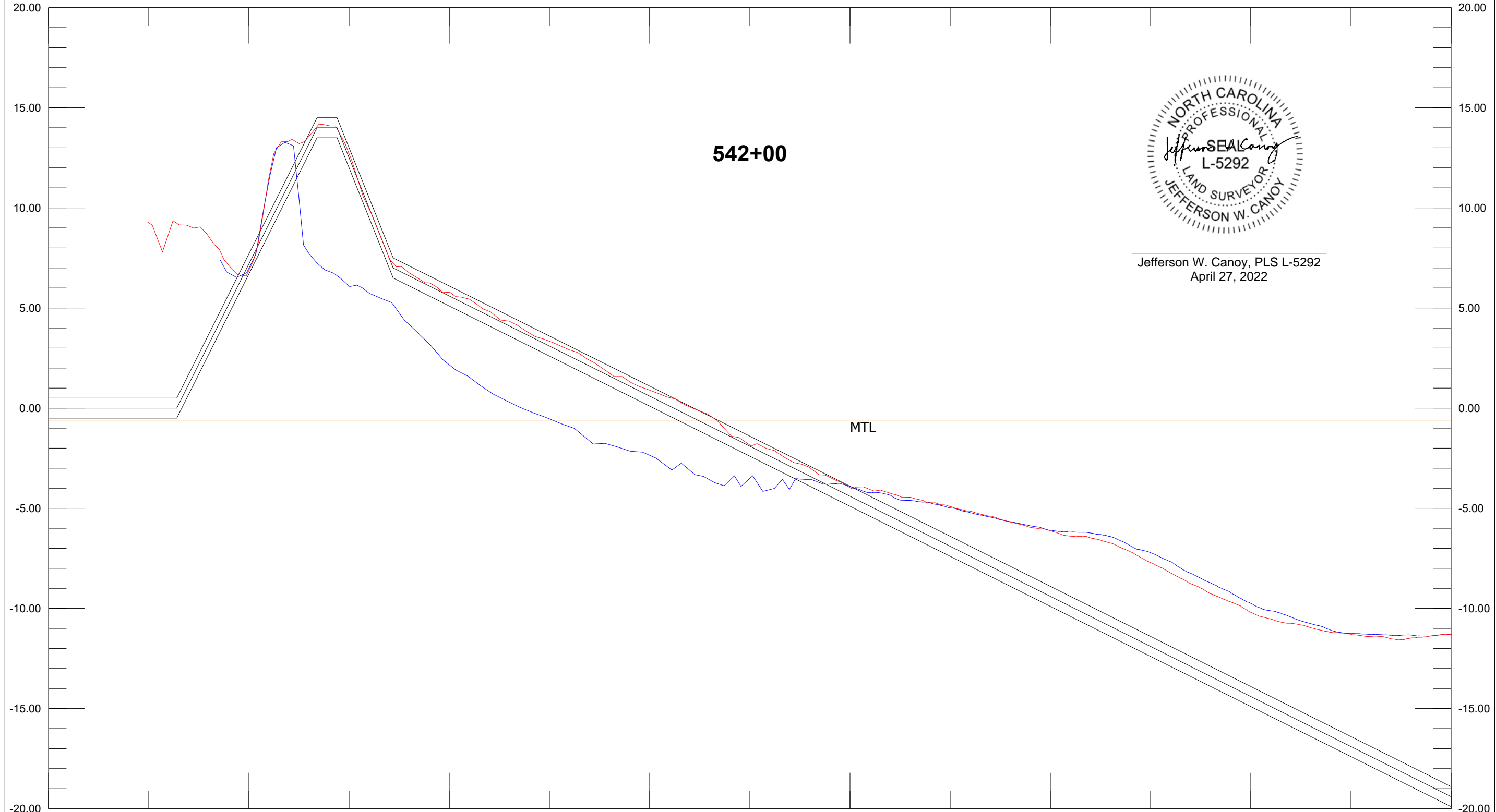
X: 2247764.36 541+00 Length: 1750.01 Azimuth: 177.52 X: 2247840.16
Y: 61052.35 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
541+00 541+00 Depth 5.00 Ft:In

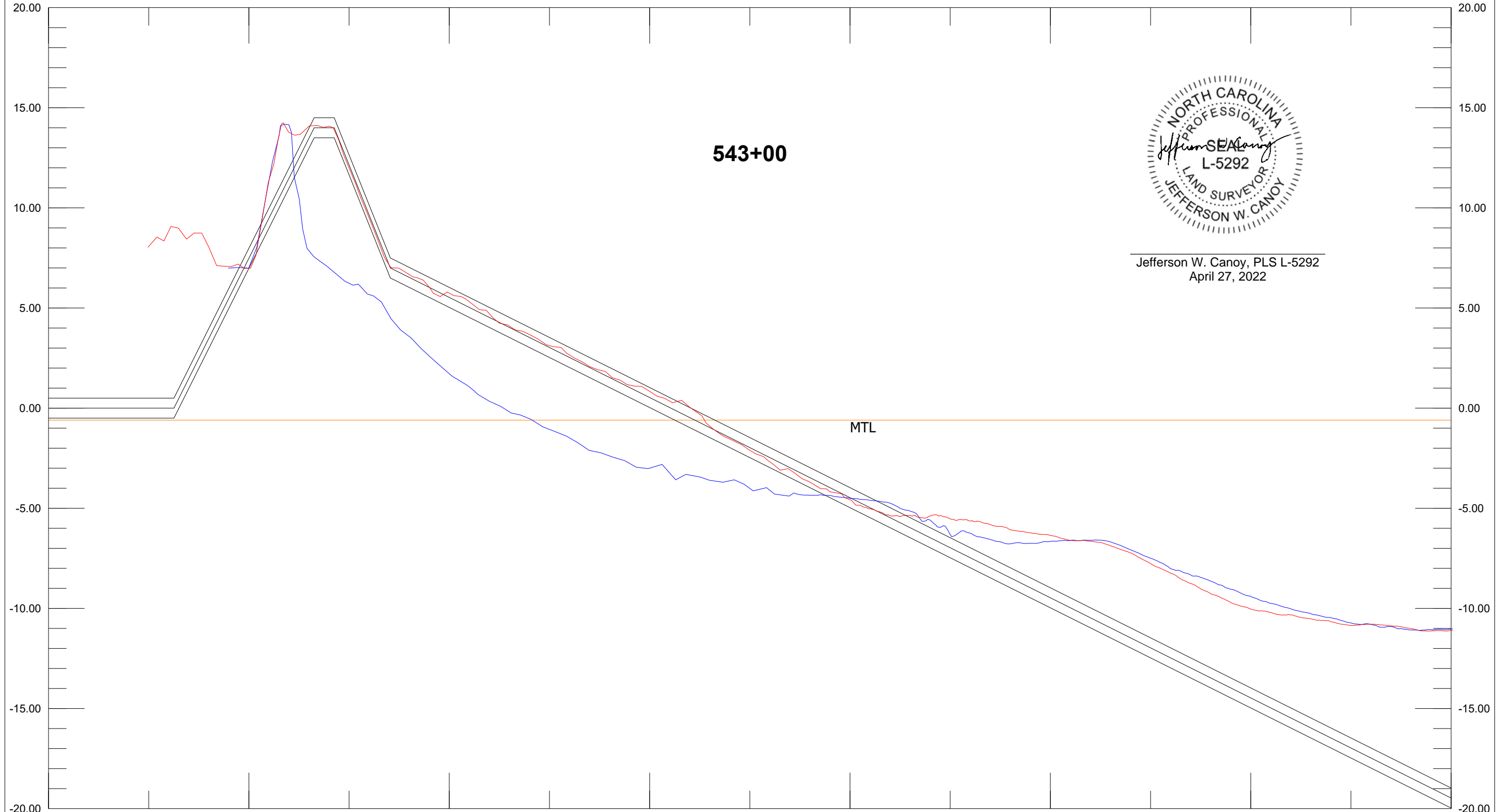
X: 2247664.45 542+00 Length: 1750.00 Azimuth: 177.52 X: 2247740.25
Y: 61048.01 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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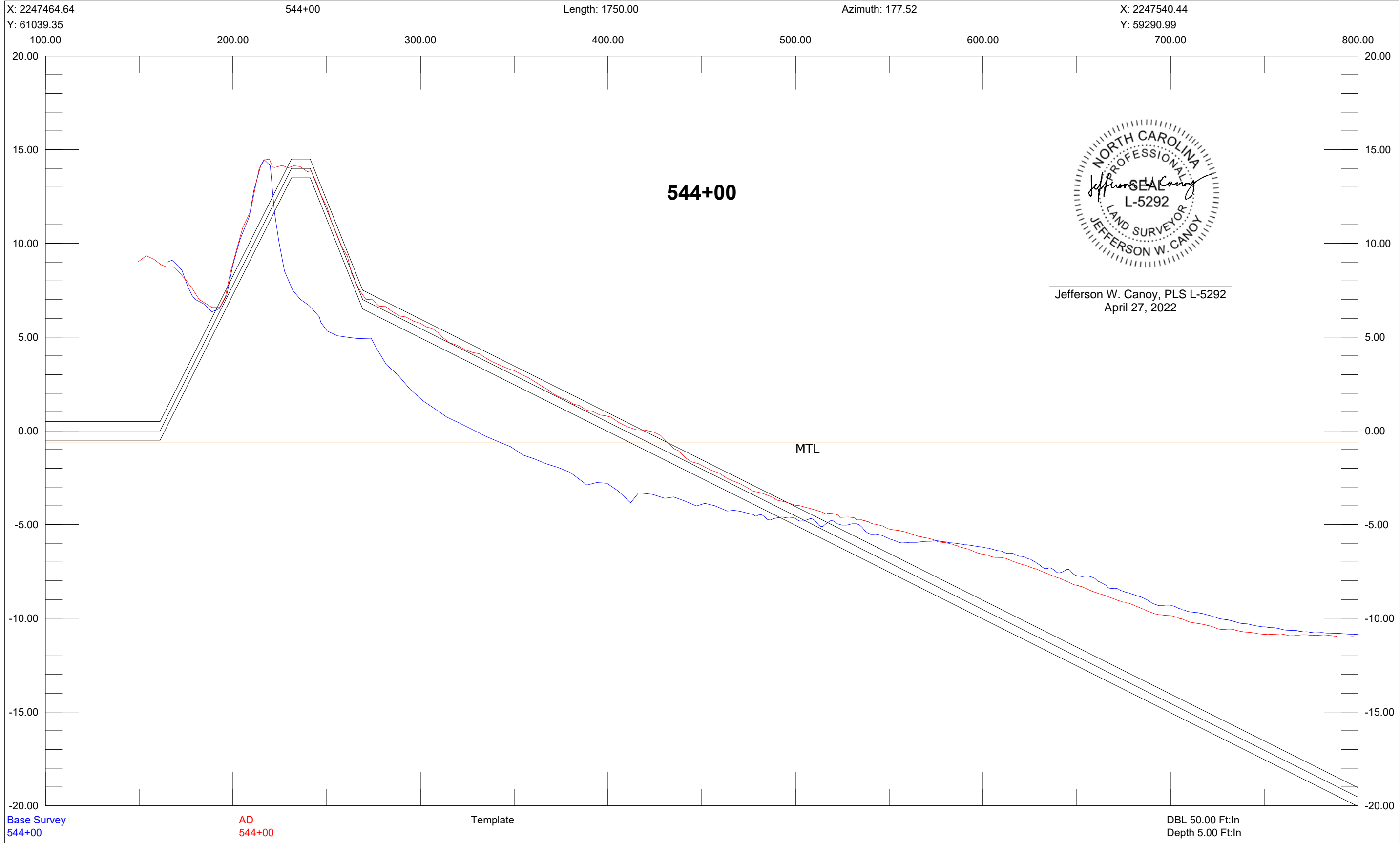
Base Survey AD Template DBL 50.00 Ft:In
542+00 542+00 Depth 5.00 Ft:In

X: 2247564.55 543+00 Length: 1750.00 Azimuth: 177.52 X: 2247640.35
Y: 61043.68 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00

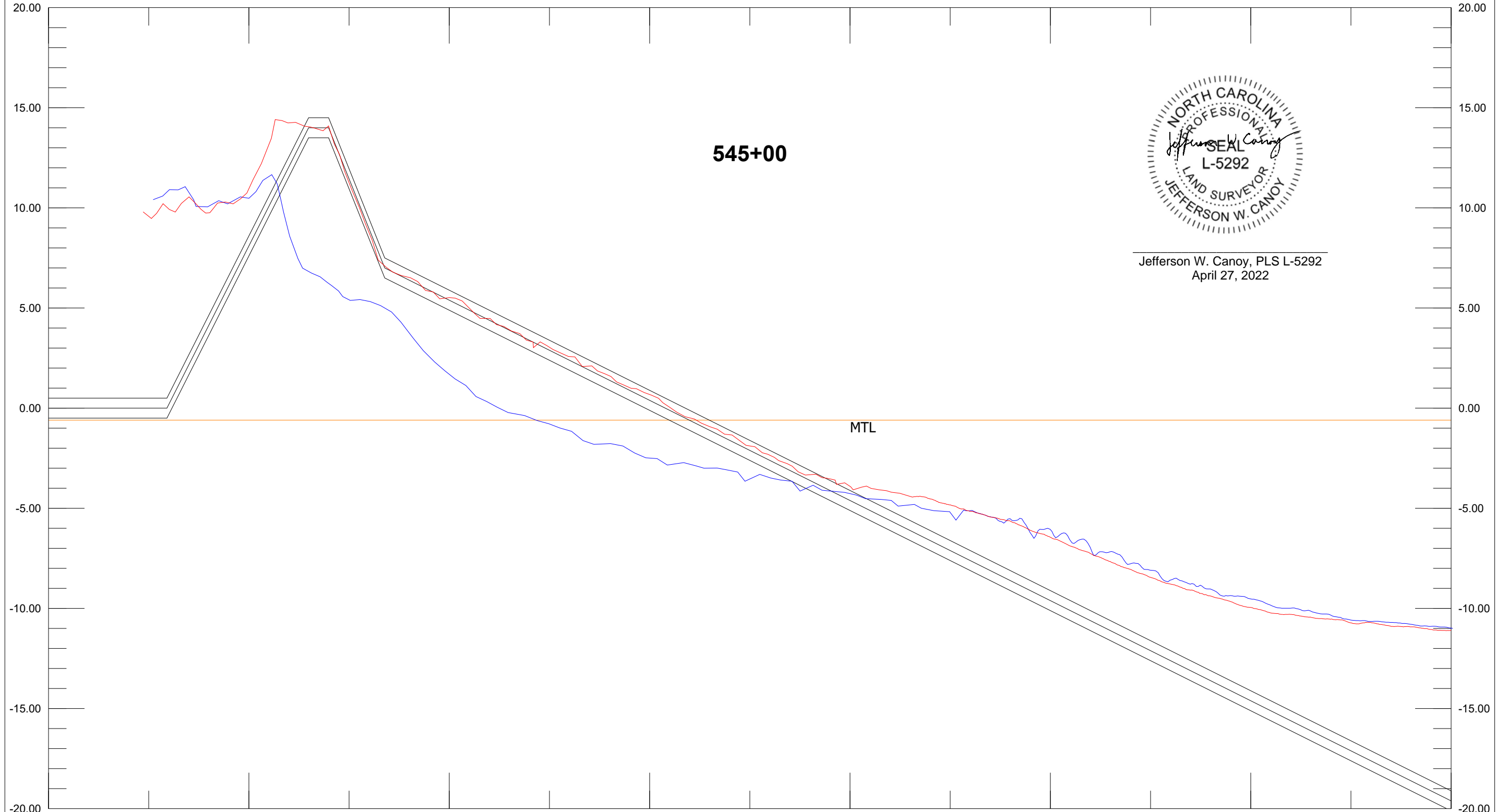


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Base Survey AD Template DBL 50.00 Ft:In
543+00 543+00 Depth 5.00 Ft:In



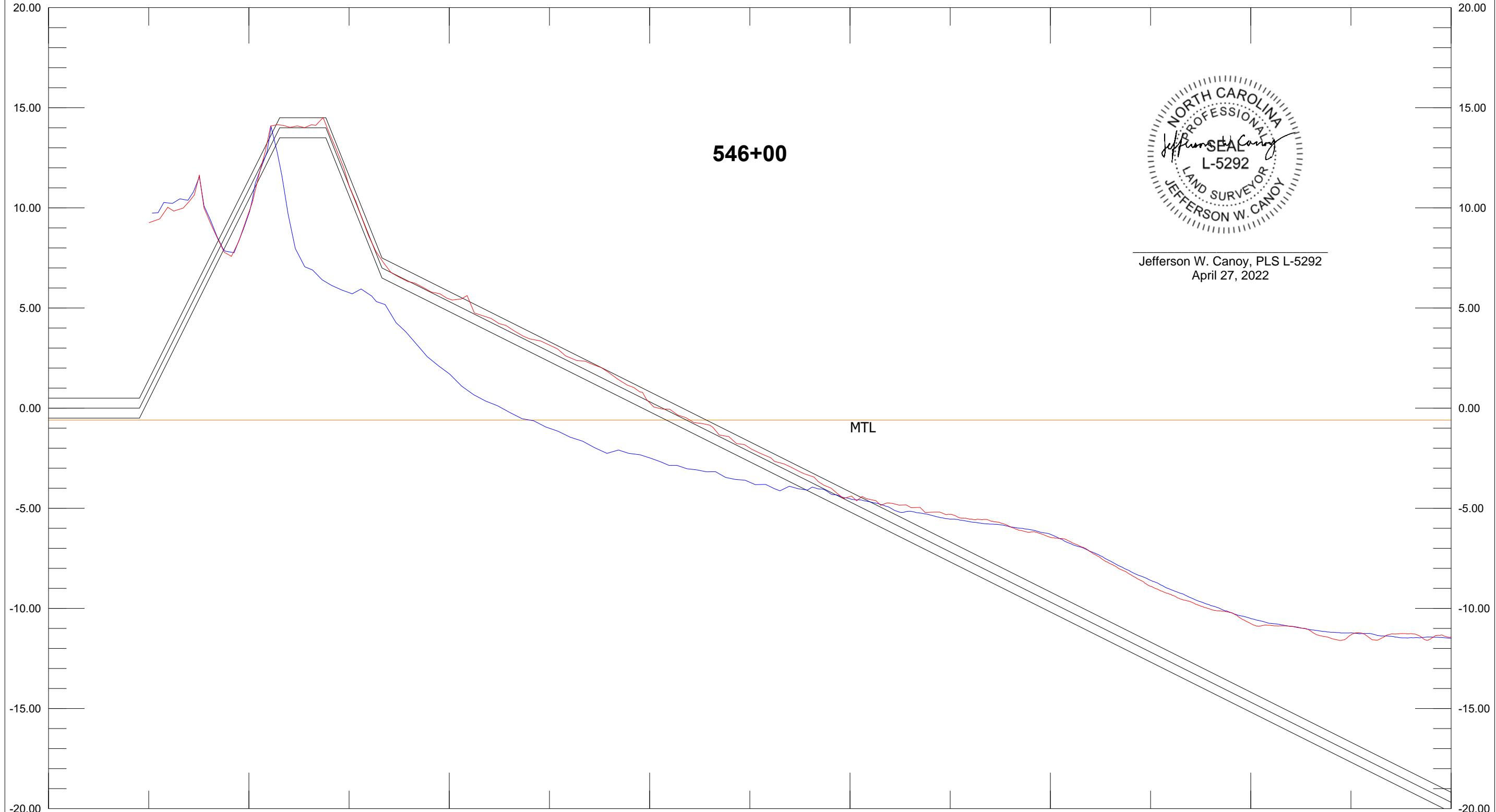
X: 2247364.74 545+00 Length: 1750.00 Azimuth: 177.52 X: 2247440.54
Y: 61035.02 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
545+00 545+00

X: 2247264.83 546+00 Length: 1750.00 Azimuth: 177.52 X: 2247340.63
Y: 61030.69 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



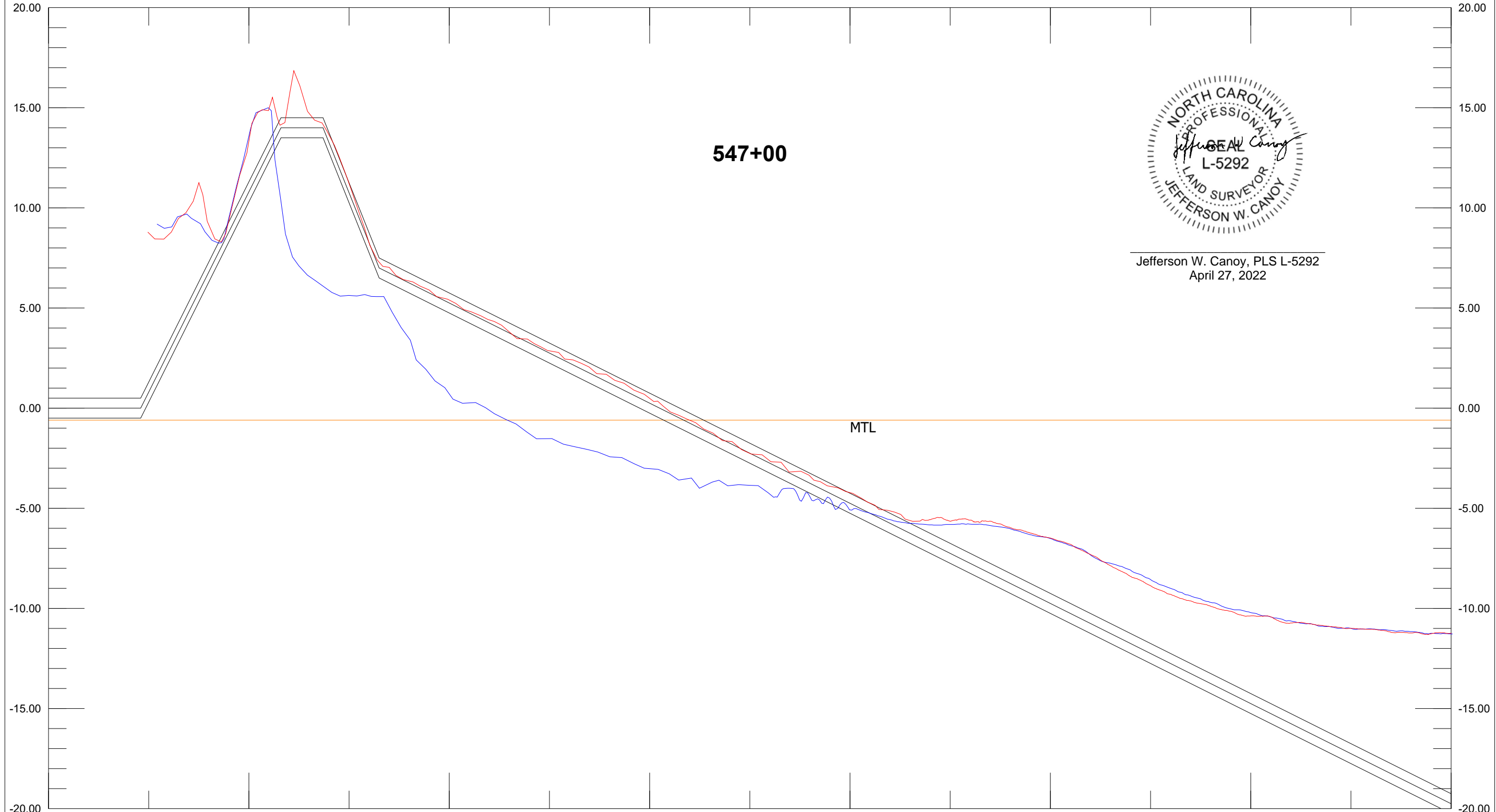
546+00



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Base Survey AD Template DBL 50.00 Ft:In
546+00 546+00 Depth 5.00 Ft:In

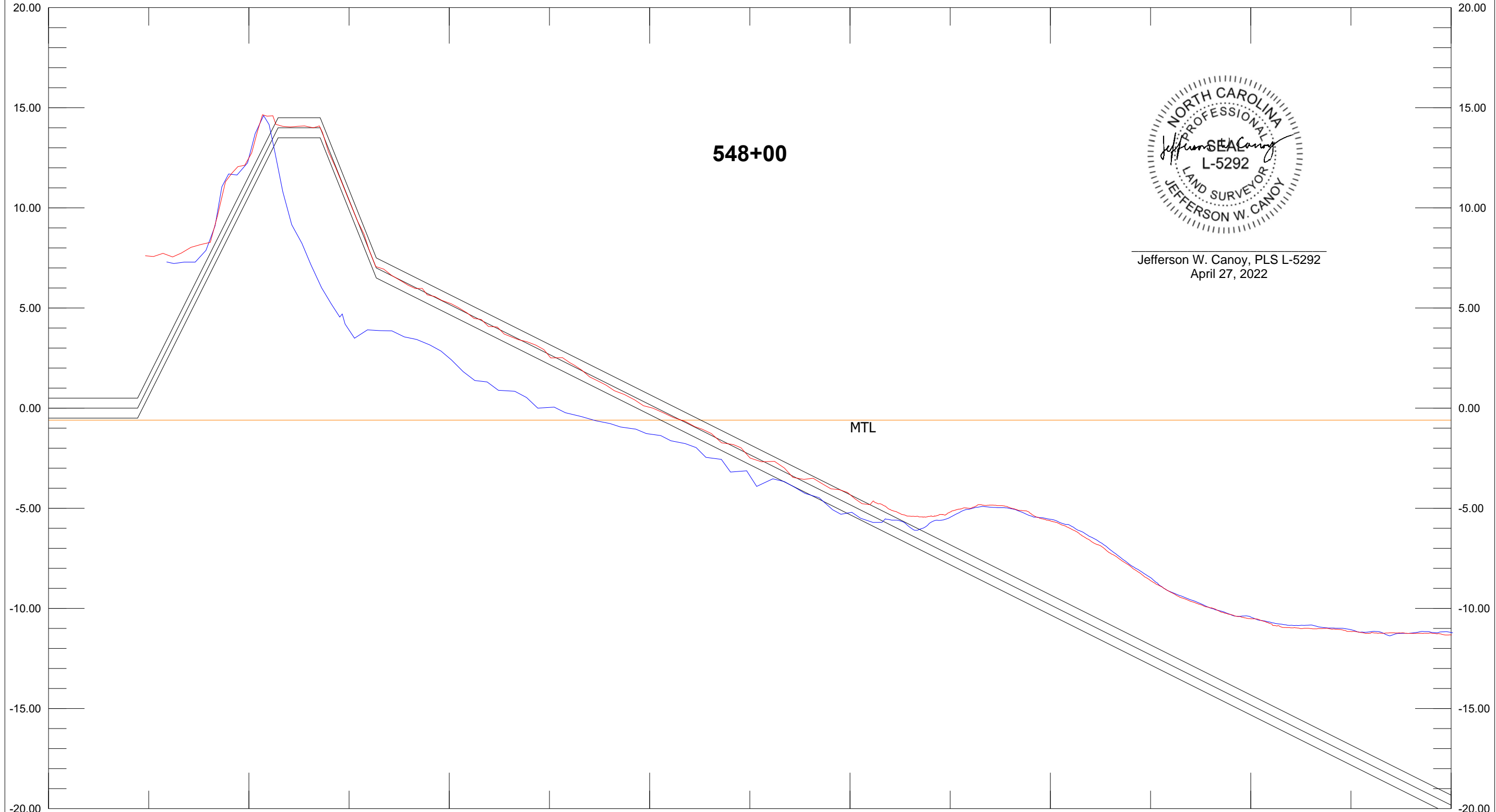
X: 2247164.92 547+00 Length: 1750.00 Azimuth: 177.52 X: 2247240.72
Y: 61026.36 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
547+00 547+00 Depth 5.00 Ft:In

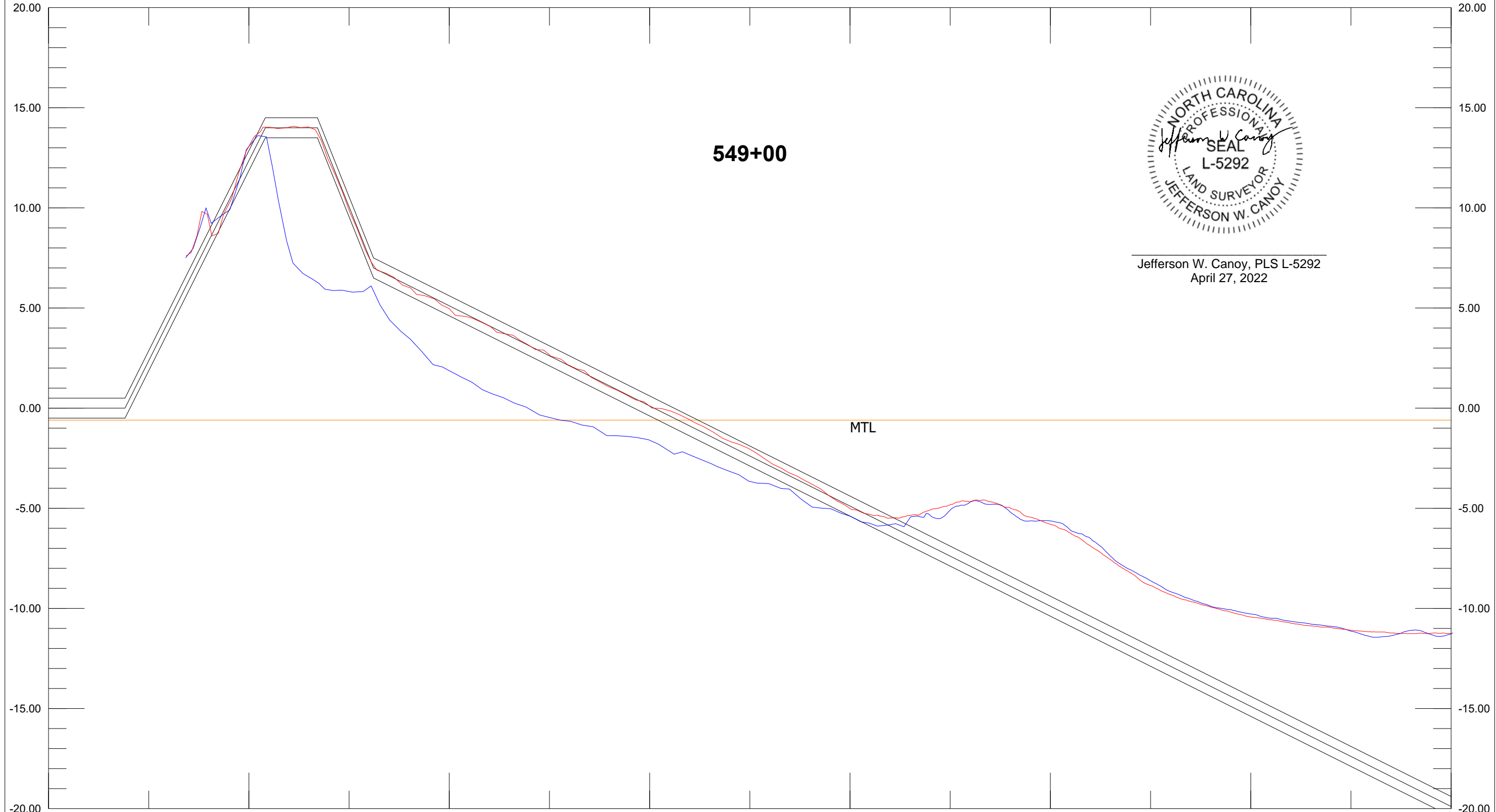
X: 2247065.02 548+00 Length: 1750.01 Azimuth: 177.52 X: 2247140.82
Y: 61022.03 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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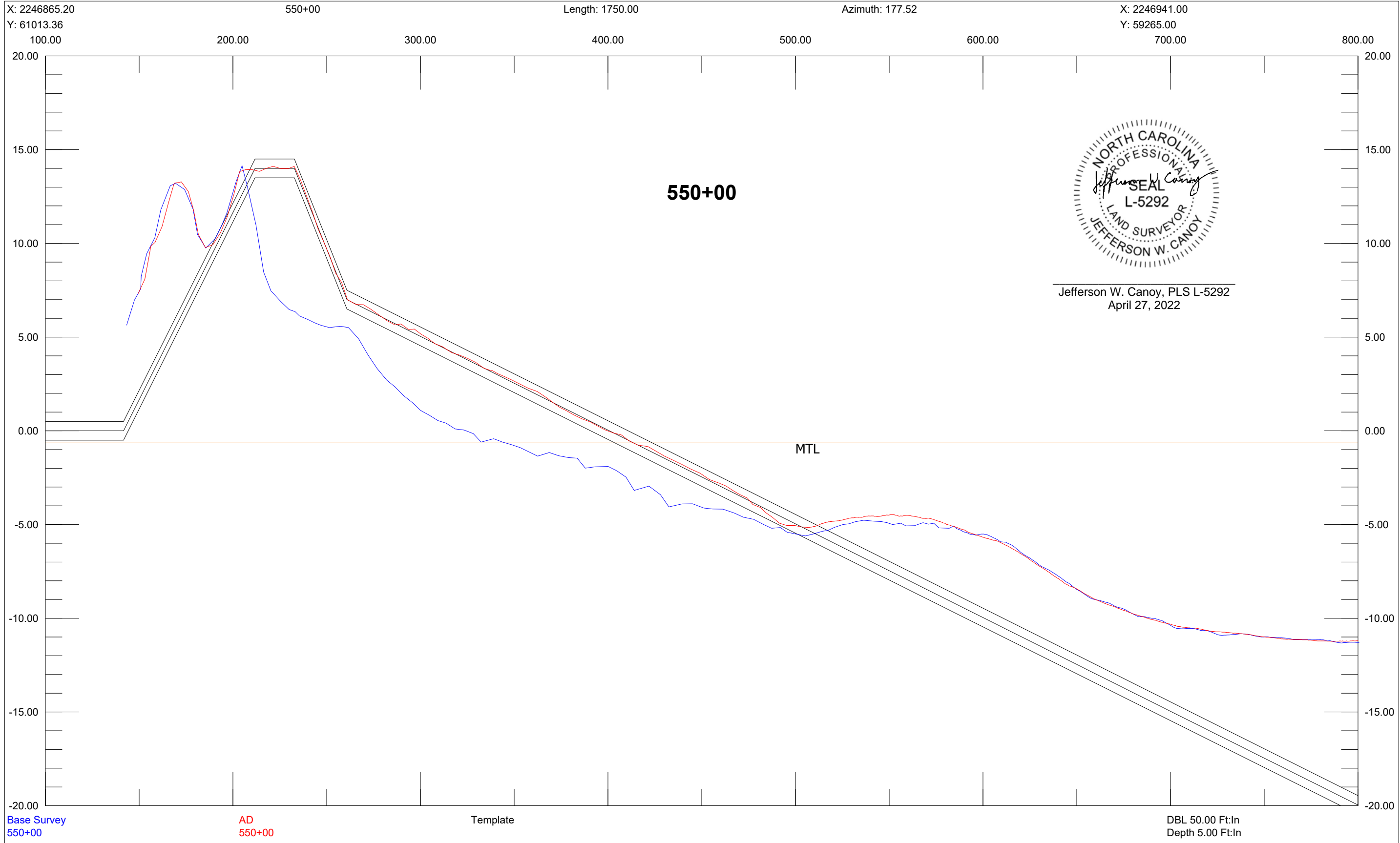
Base Survey AD Template DBL 50.00 Ft:In
548+00 548+00 Depth 5.00 Ft:In

X: 2246965.11 549+00 Length: 1750.01 Azimuth: 177.52 X: 2247040.91
Y: 61017.70 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59269.33

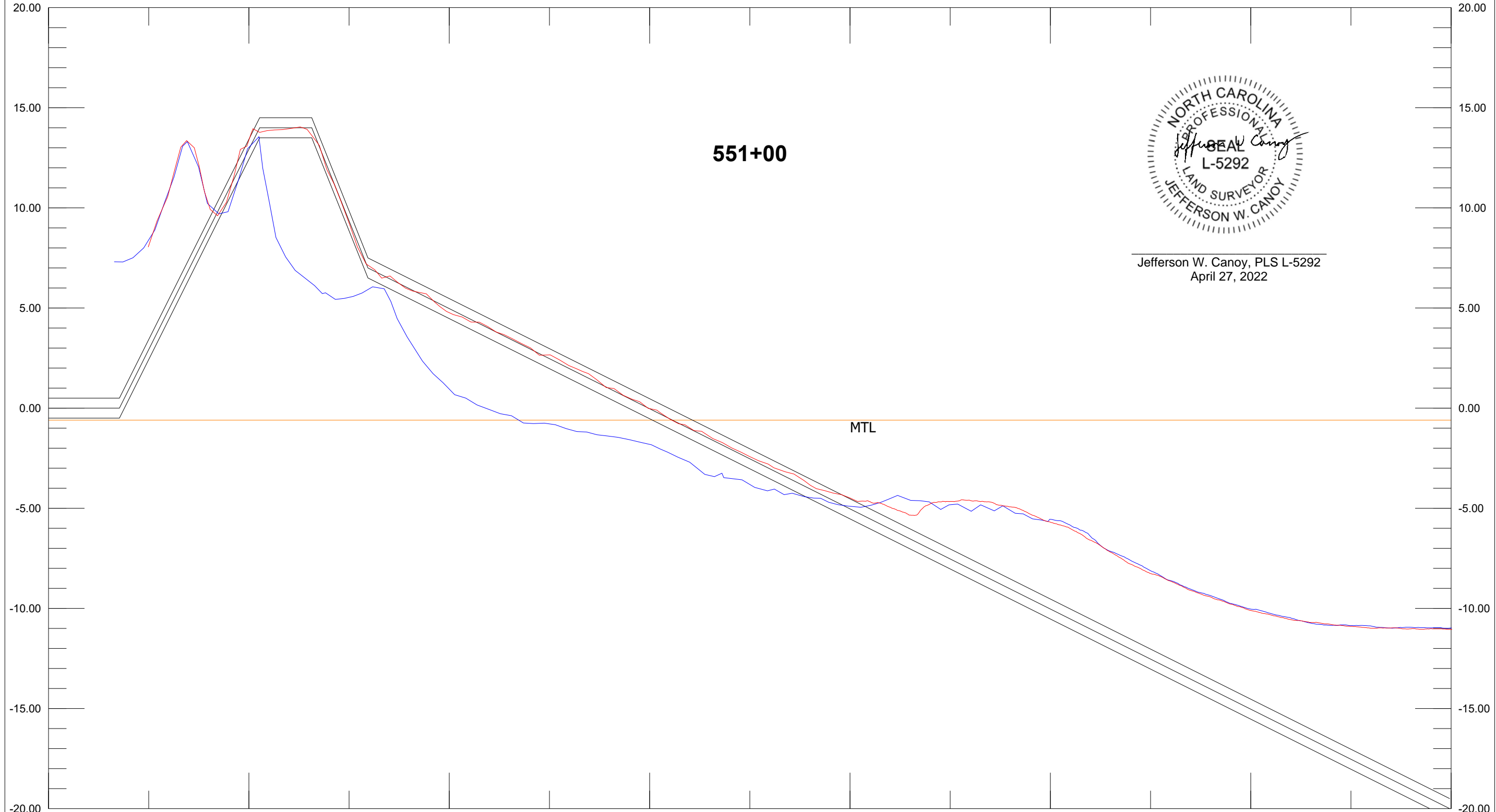


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Base Survey AD Template DBL 50.00 Ft:In
549+00 549+00 Depth 5.00 Ft:In



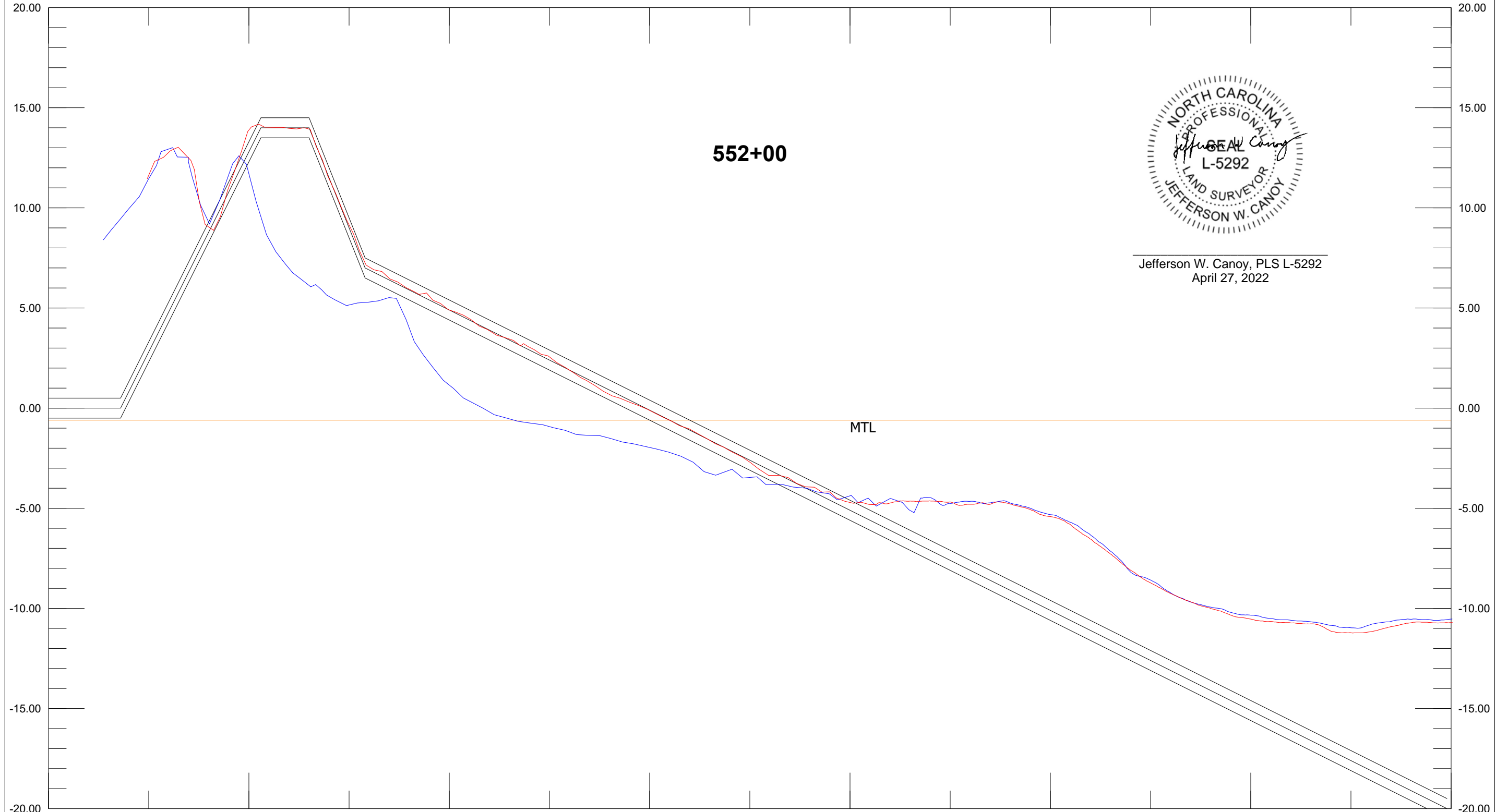
X: 2246765.30 551+00 Length: 1750.00 Azimuth: 177.52 X: 2246841.10
Y: 61009.03 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59260.67



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Base Survey AD Template DBL 50.00 Ft:In
551+00 551+00

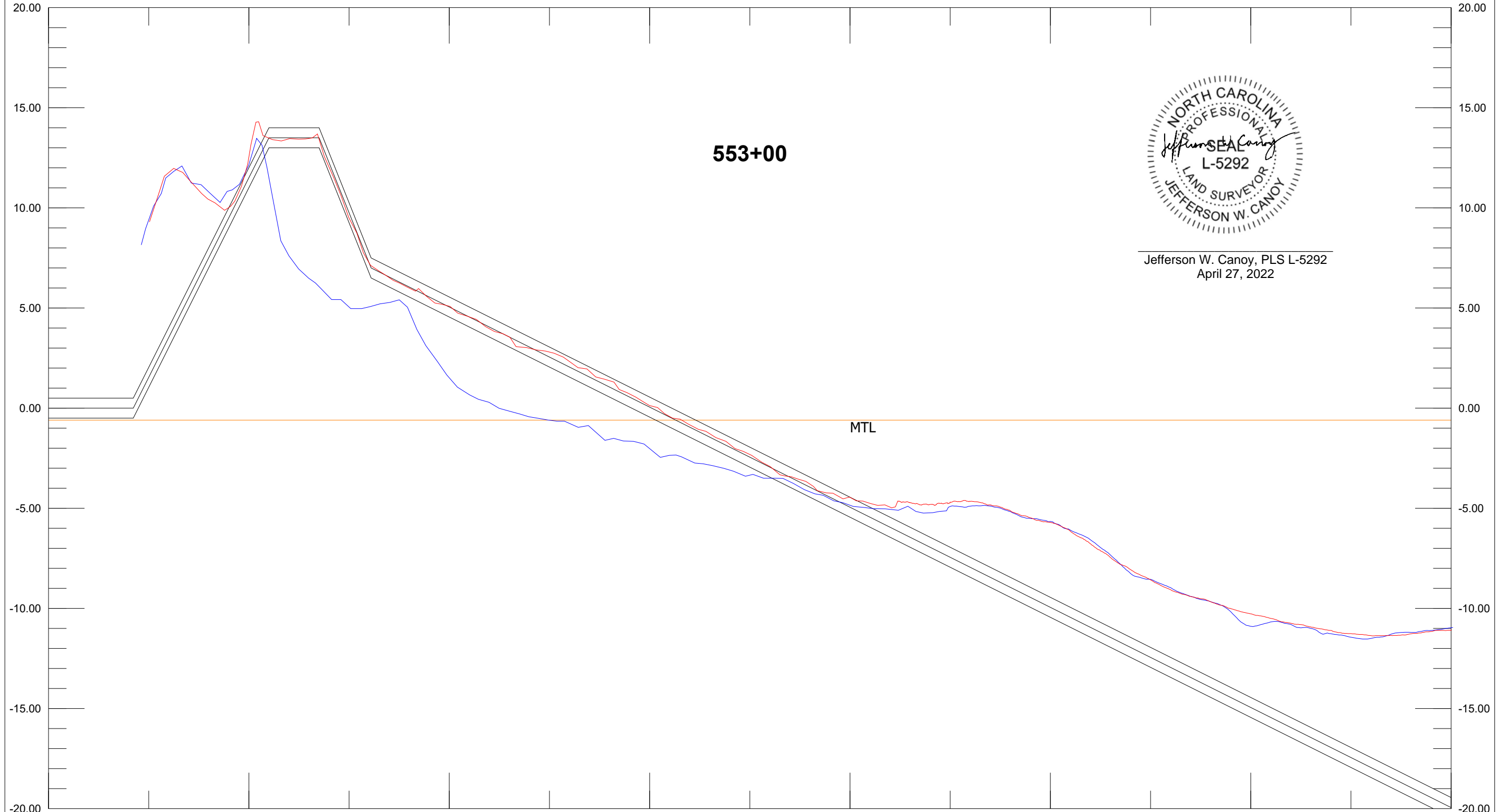
X: 2246673.92 552+00 Length: 1749.99 Azimuth: 179.47 X: 2246690.00
Y: 61004.95 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59255.03



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Base Survey AD Template DBL 50.00 Ft:In
552+00 552+00 Depth 5.00 Ft:In

X: 2246573.93 553+00 Length: 1749.99 Azimuth: 179.47 X: 2246590.01
Y: 61004.03 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



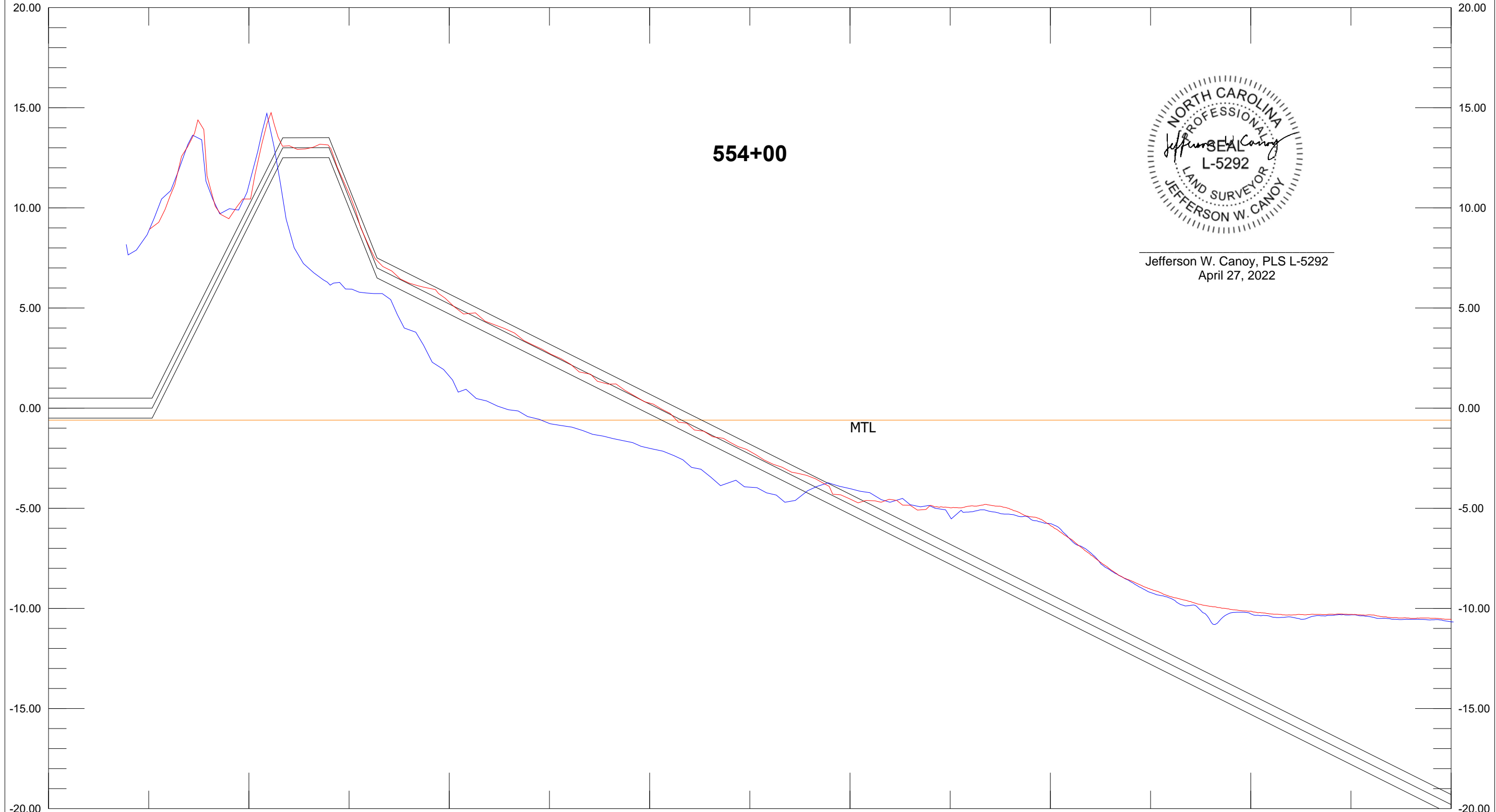
553+00



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Base Survey AD Template DBL 50.00 Ft:In
553+00 553+00 Depth 5.00 Ft:In

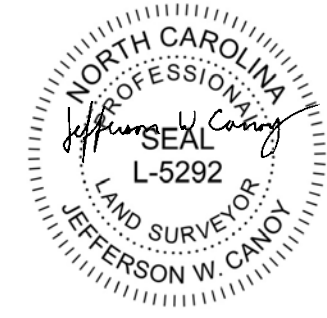
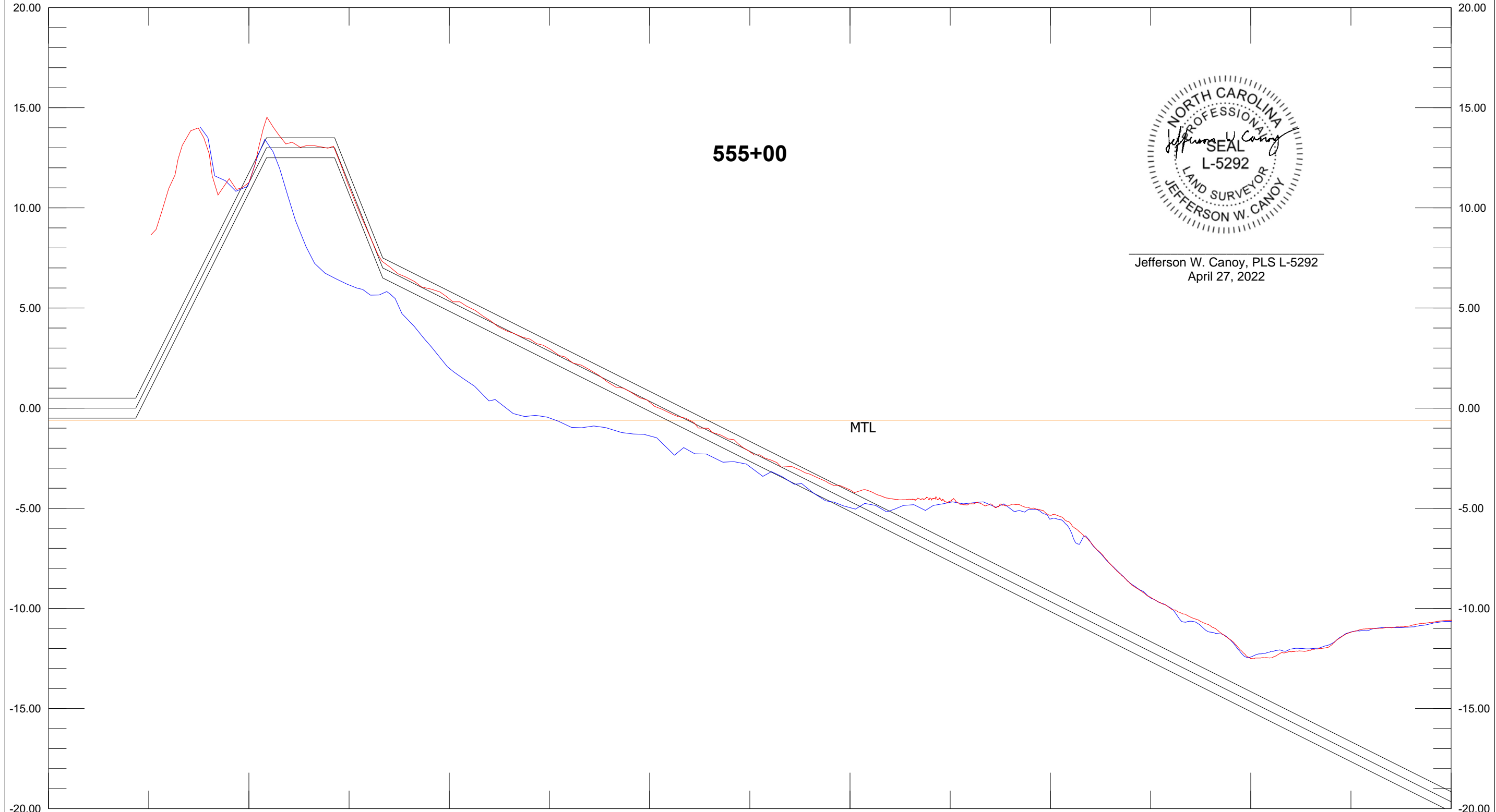
X: 2246475.49 554+00 Length: 1749.99 Azimuth: 179.48 X: 2246491.49
Y: 61003.12 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59253.20



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Base Survey AD Template DBL 50.00 Ft:In
554+00 554+00 Depth 5.00 Ft:In

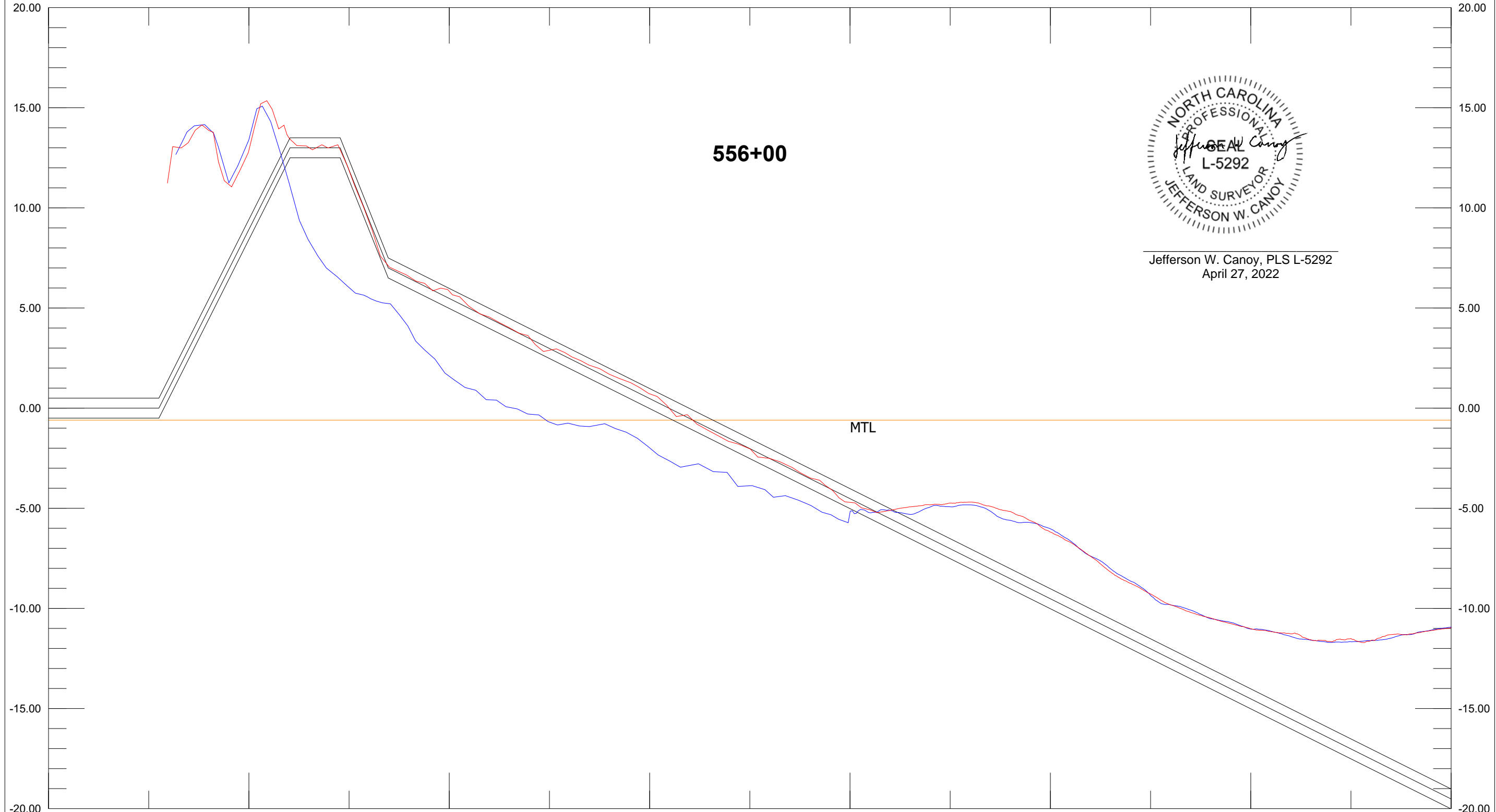
X: 2246373.94 555+00 Length: 1750.00 Azimuth: 179.48 X: 2246389.95
Y: 61002.20 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59252.27



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Base Survey AD Template DBL 50.00 Ft:In
555+00 555+00 Depth 5.00 Ft:In

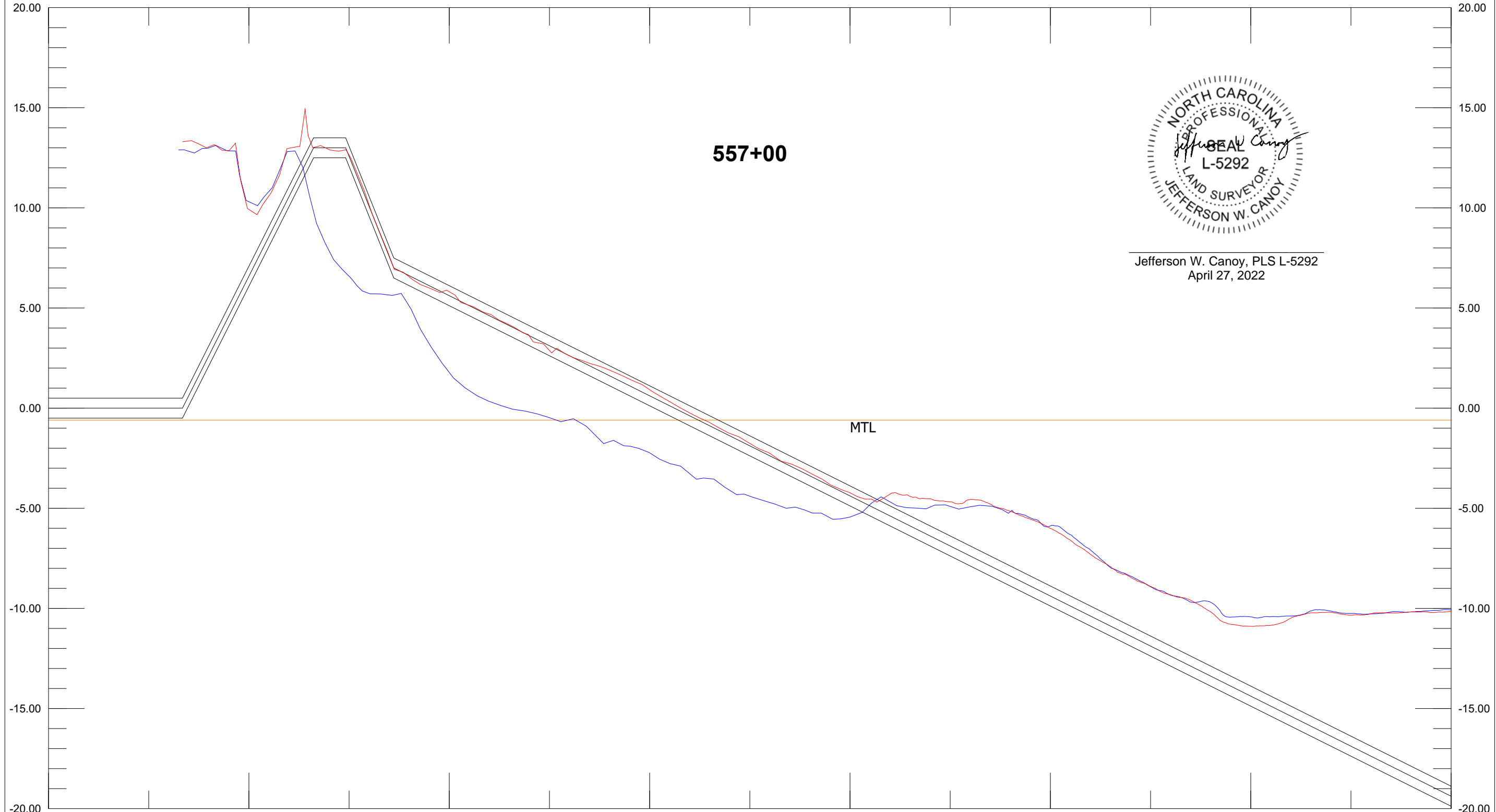
X: 2246273.96 556+00 Length: 1750.00 Azimuth: 179.48 X: 2246289.95
Y: 61001.29 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
556+00 556+00 Depth 5.00 Ft:In

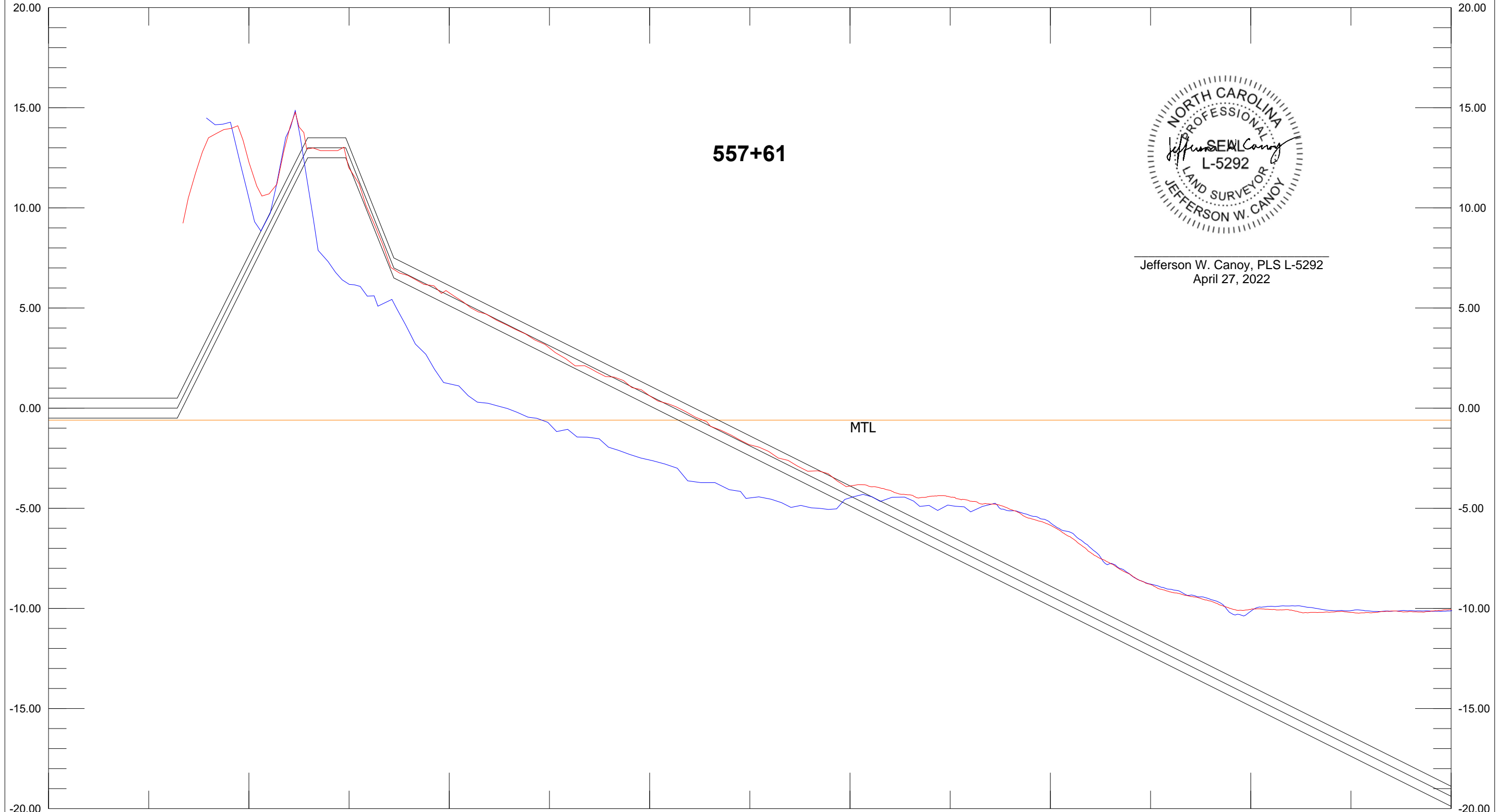
X: 2246173.95 557+00 Length: 1750.00 Azimuth: 179.48 X: 2246189.96
Y: 61000.37 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
557+00 557+00 Depth 5.00 Ft:In

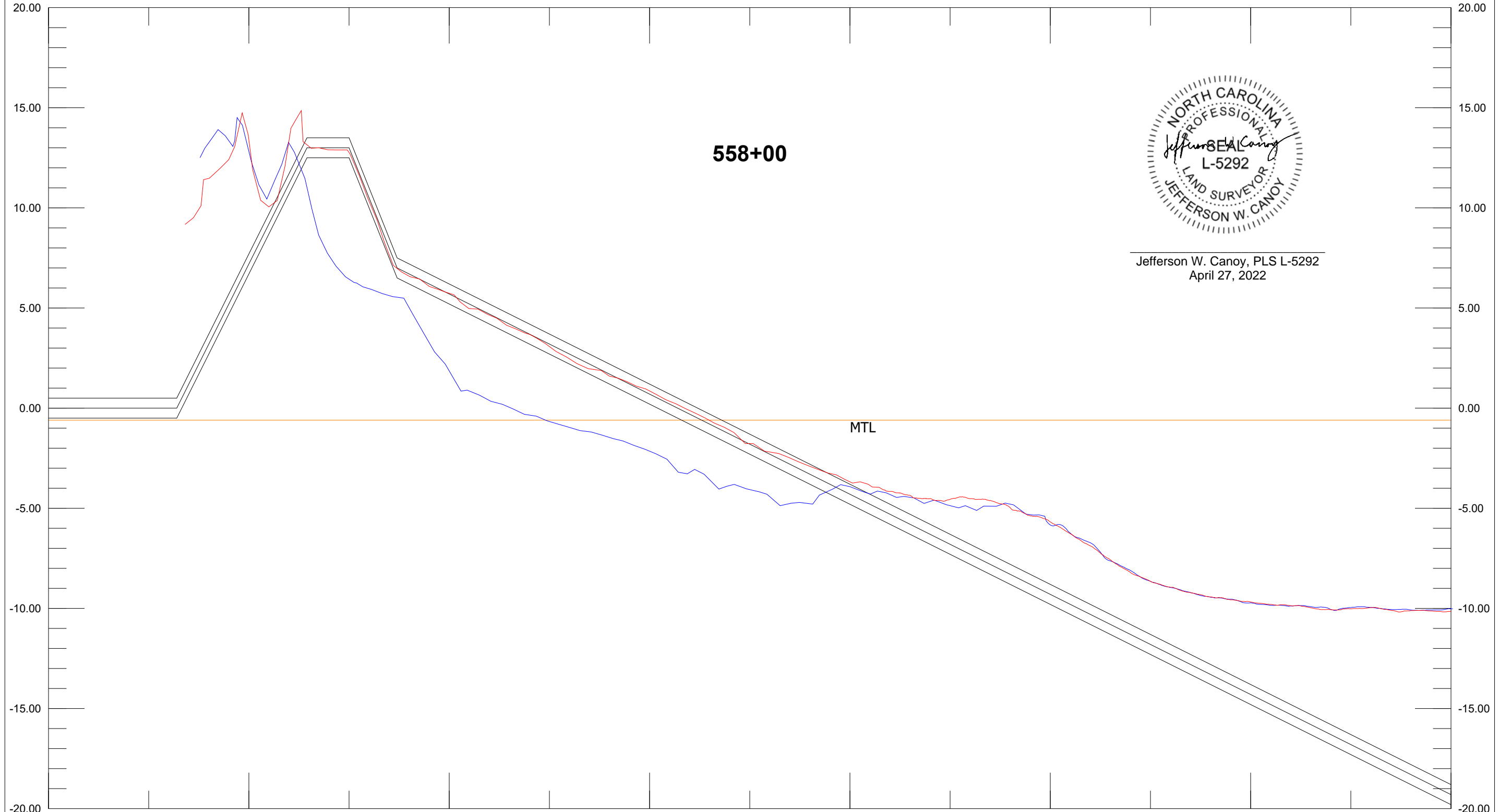
X: 2246104.74 557+61 Length: 1750.00 Azimuth: 177.67 X: 2246175.95
Y: 60997.95 Y: 59249.40
100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
557+61 557+61 Depth 5.00 Ft:In

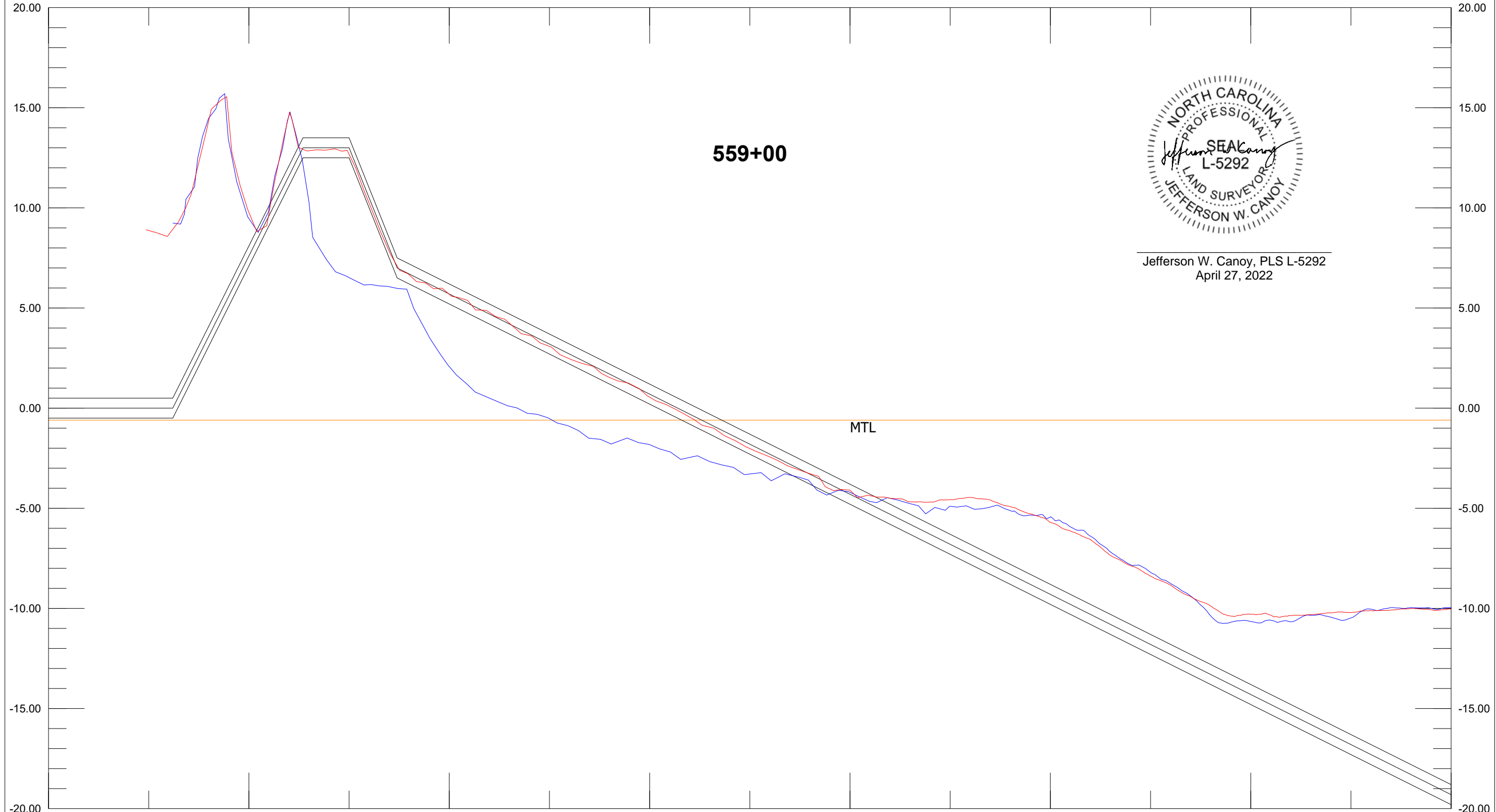
X: 2246066.11 558+00 Length: 1750.00 Azimuth: 177.67 X: 2246137.32
Y: 60998.04 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
558+00 558+00

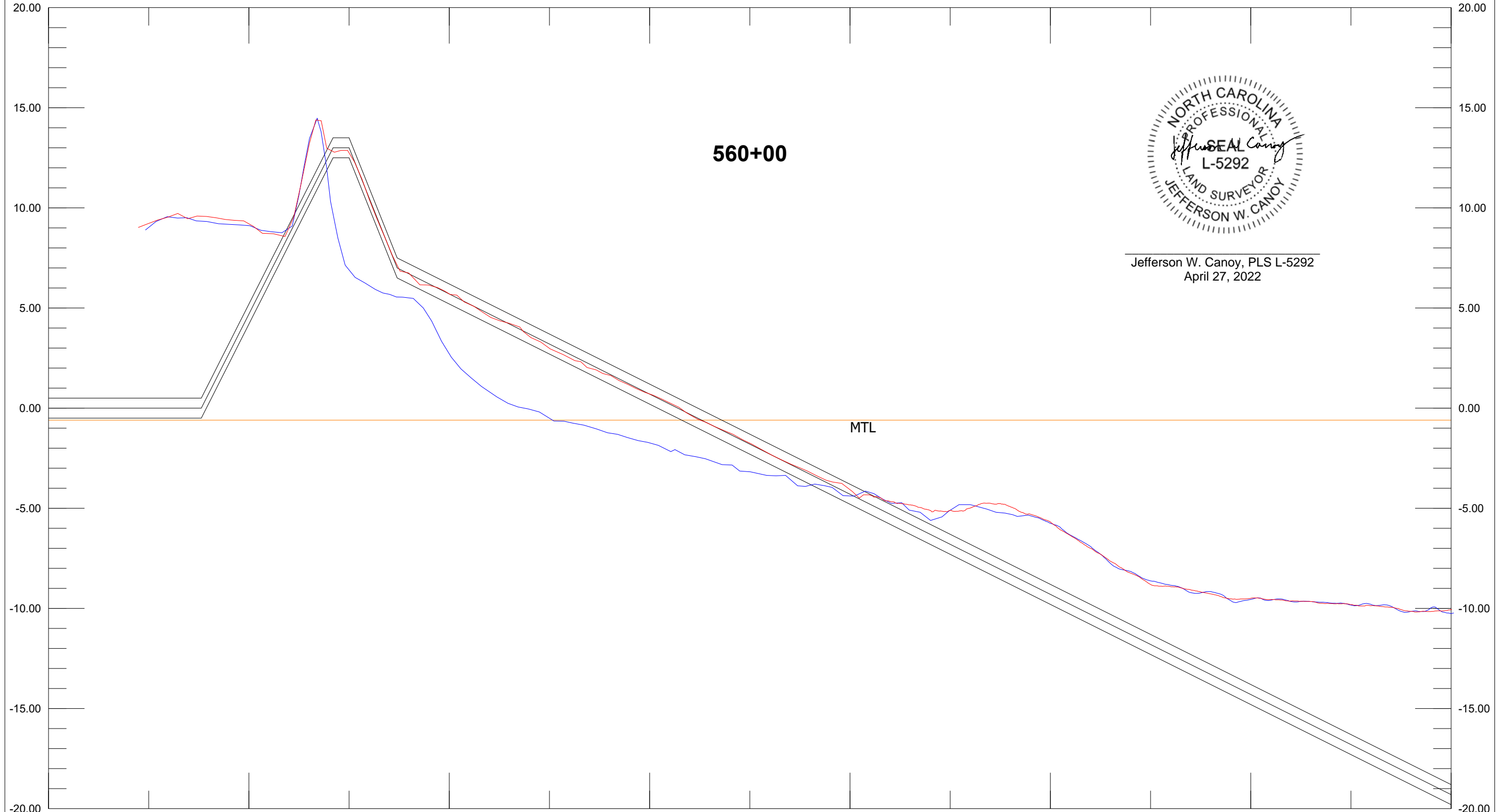
X: 2245966.19 559+00 Length: 1750.00 Azimuth: 177.67 X: 2246037.41
Y: 60993.97 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
559+00 559+00 Depth 5.00 Ft:In

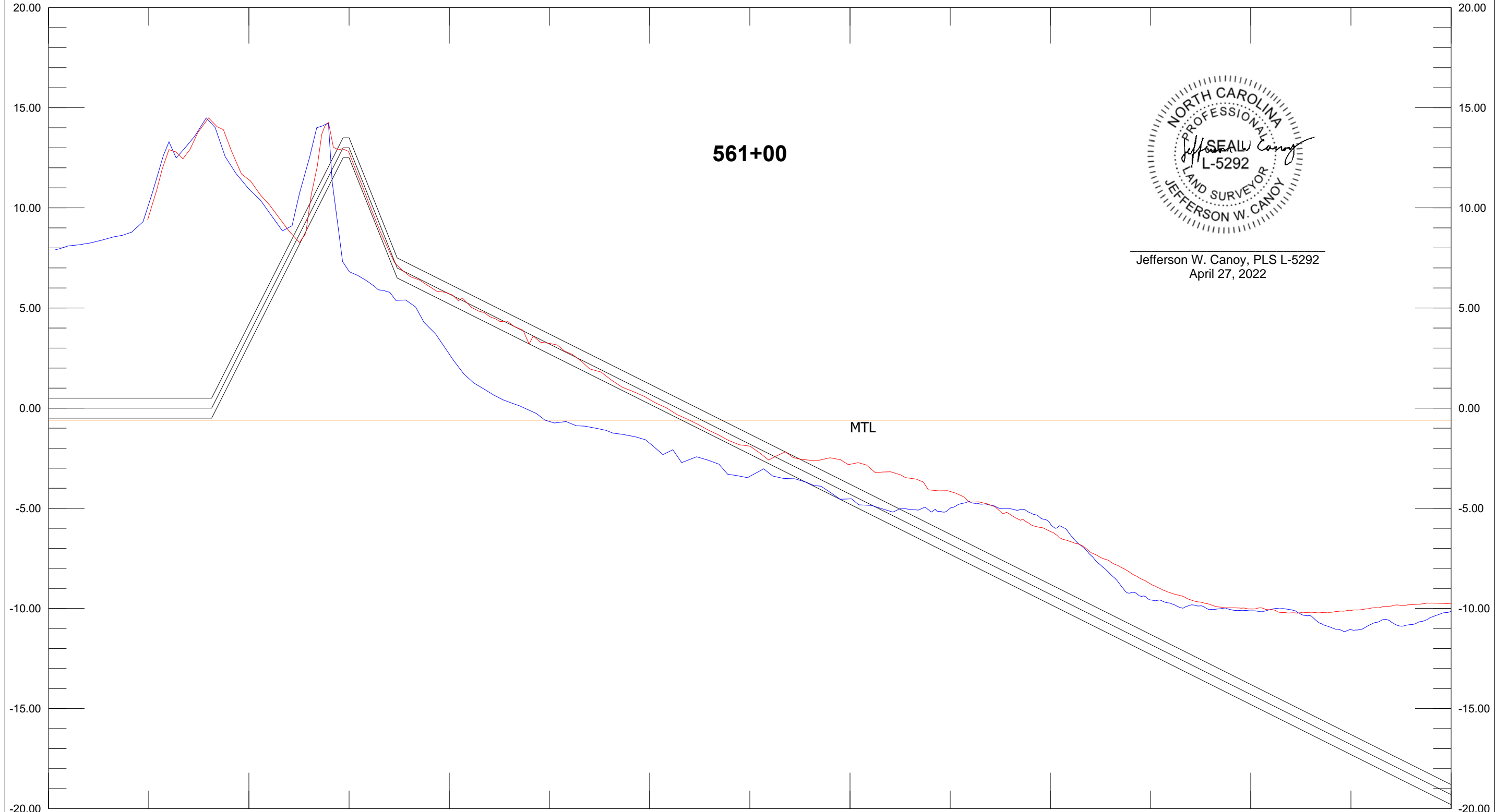
X: 2245866.27 560+00 Length: 1750.00 Azimuth: 177.67 X: 2245937.49
Y: 60989.90 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
560+00 560+00 Depth 5.00 Ft:In

X: 2245766.36 561+00 Length: 1750.00 Azimuth: 177.67 X: 2245837.57
Y: 60985.83 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



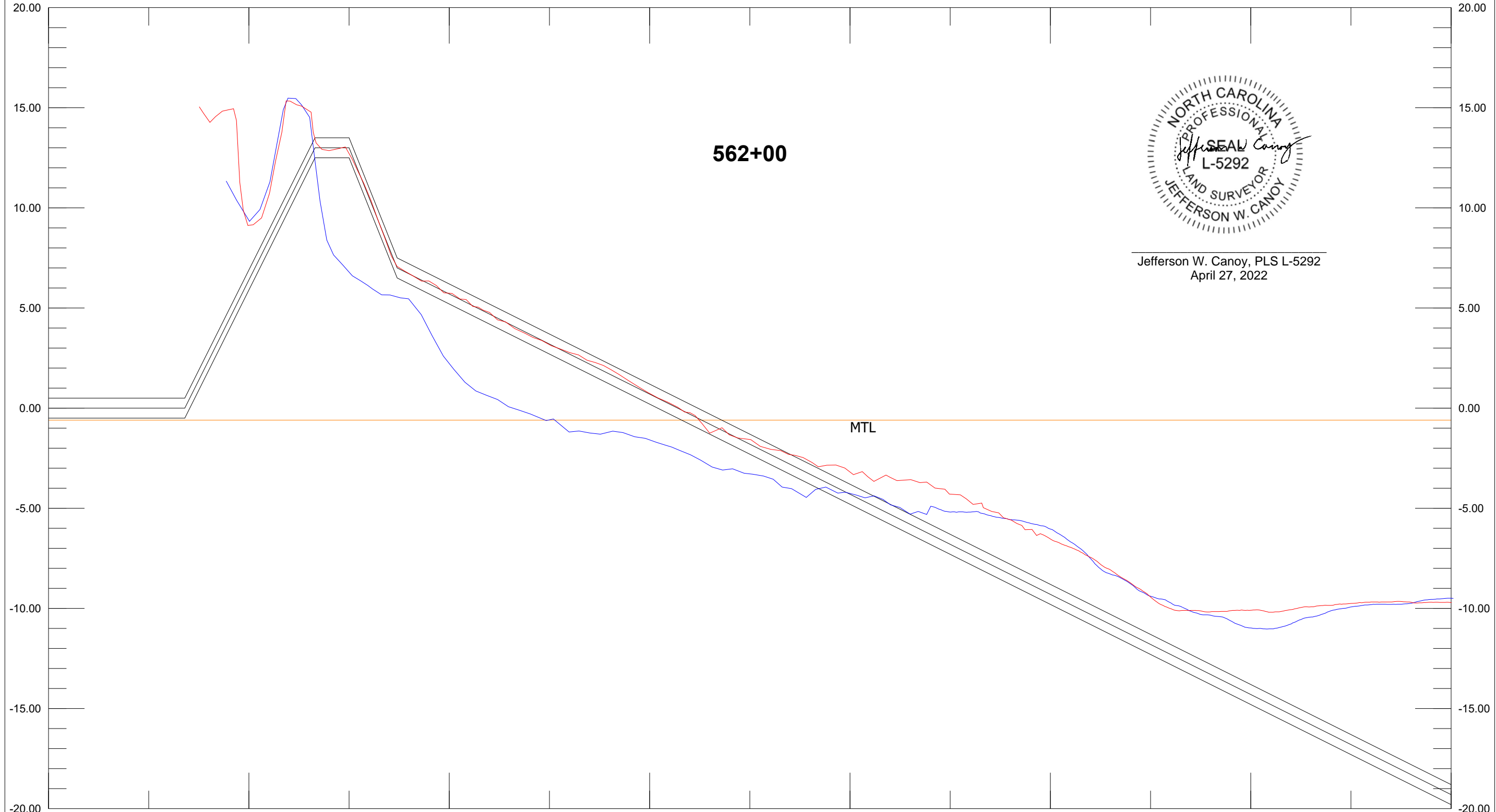
561+00



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April 27, 2022

Base Survey AD Template DBL 50.00 Ft:In
561+00 561+00 Depth 5.00 Ft:In

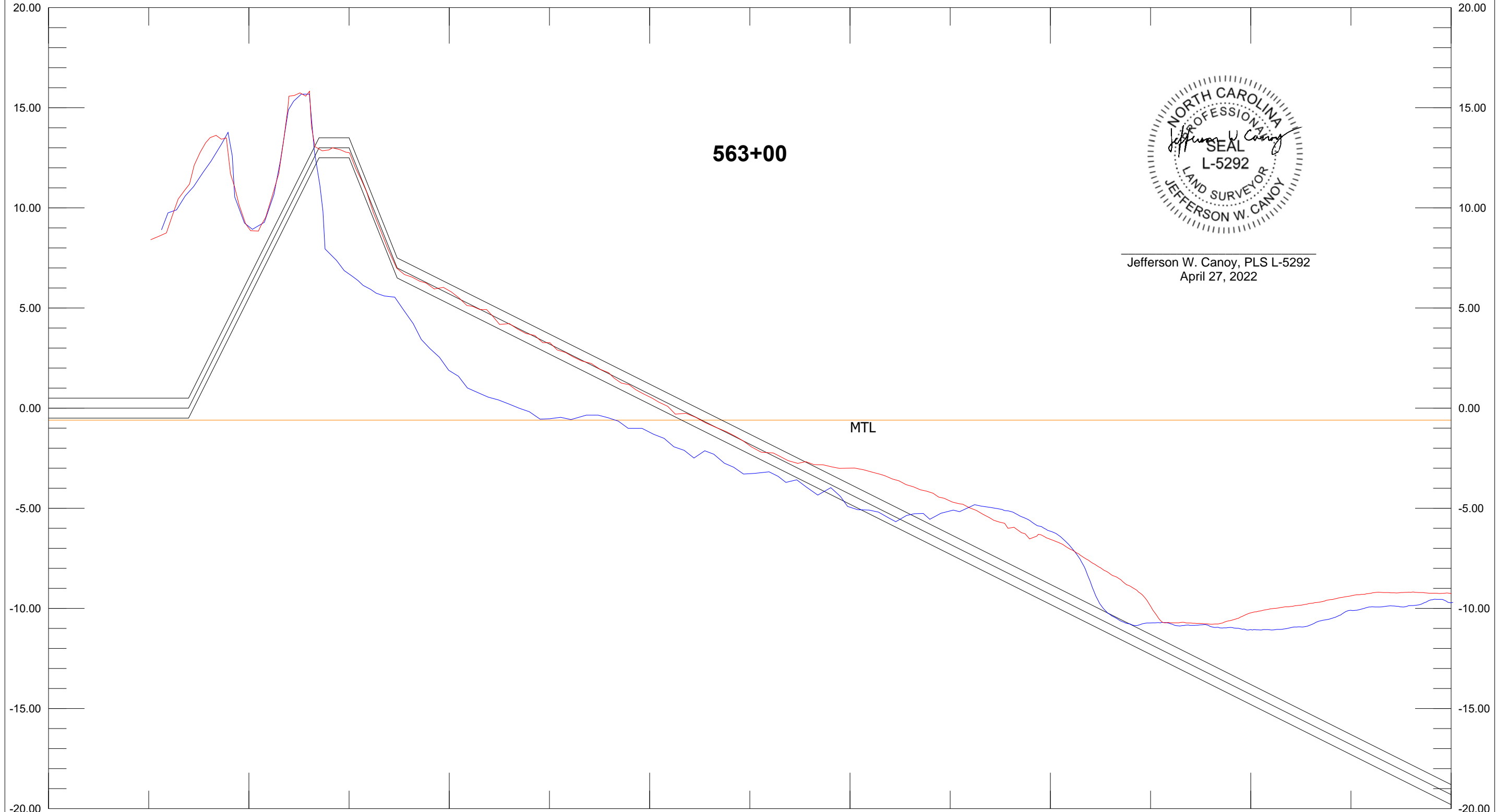
X: 2245666.44 562+00 Length: 1750.00 Azimuth: 177.67 X: 2245737.66
Y: 60981.76 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59233.21



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Base Survey AD Template DBL 50.00 Ft:In
562+00 562+00 Depth 5.00 Ft:In

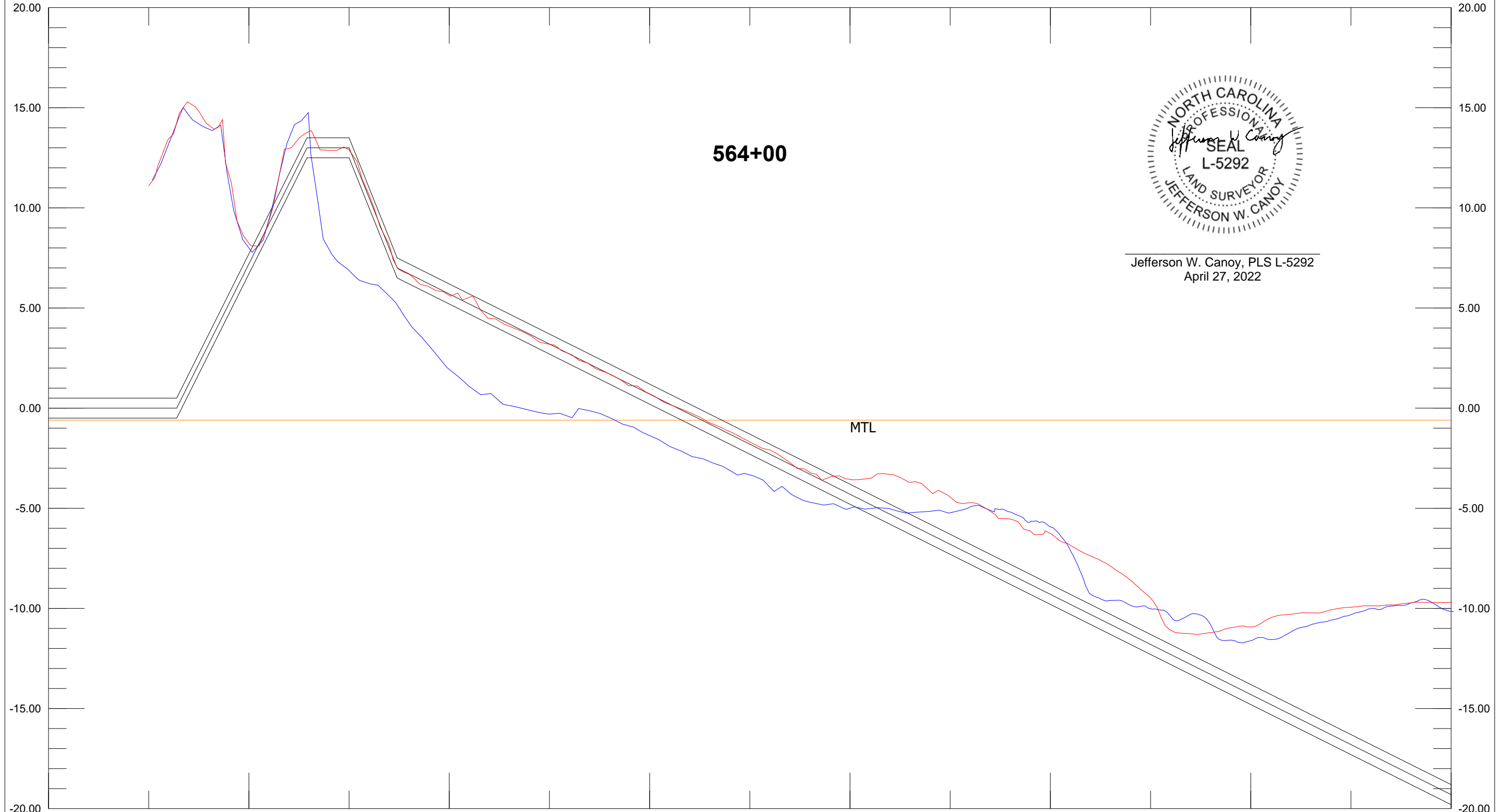
X: 2245566.52 563+00 Length: 1750.00 Azimuth: 177.67 X: 2245637.74
Y: 60977.69 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59229.14



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Base Survey AD Template DBL 50.00 Ft:In
563+00 563+00 Depth 5.00 Ft:In

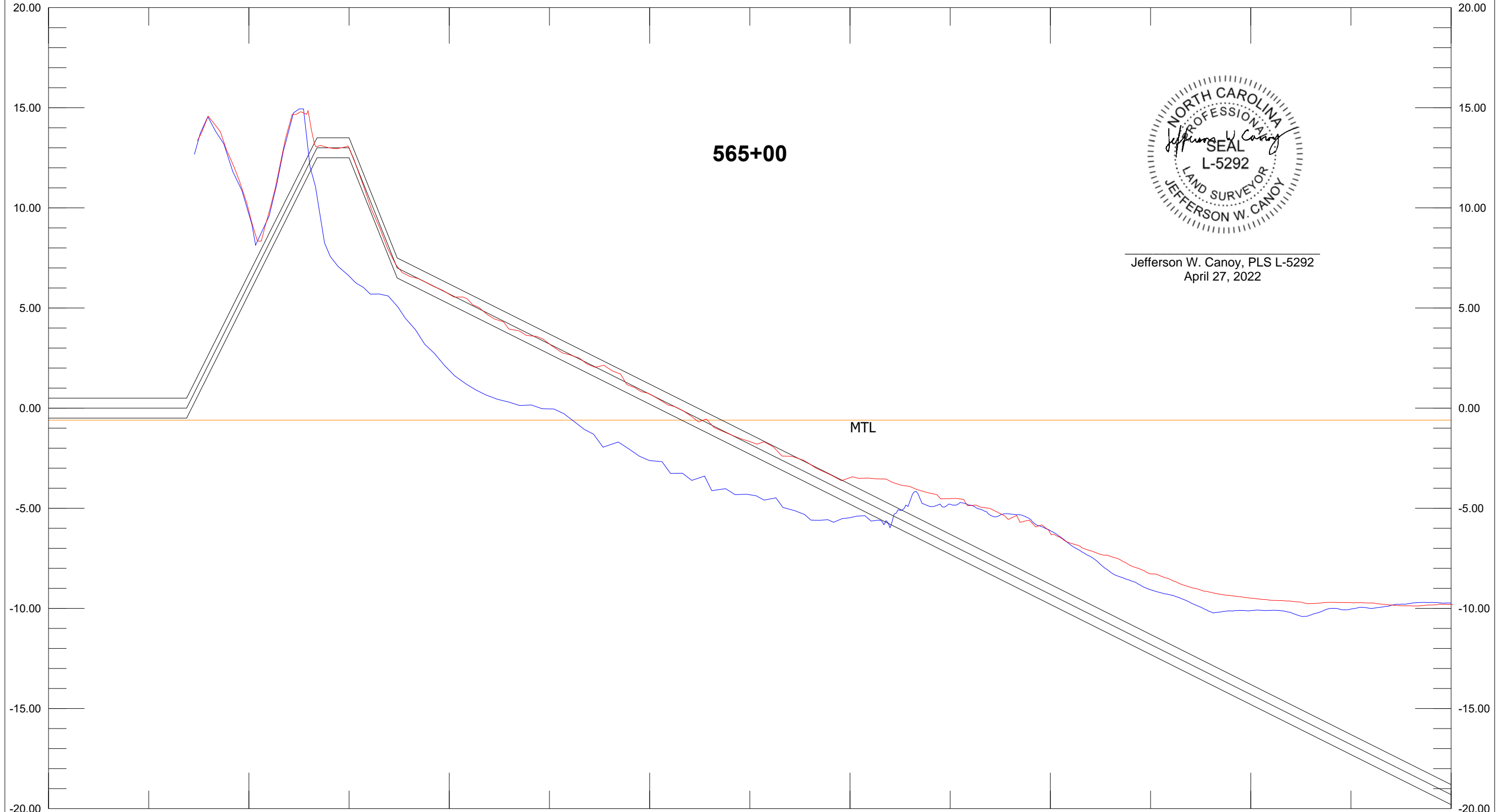
X: 2245466.60 564+00 Length: 1750.00 Azimuth: 177.67 X: 2245537.82
Y: 60973.62 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
564+00 564+00 Depth 5.00 Ft:In

X: 2245366.69 565+00 Length: 1750.00 Azimuth: 177.67 X: 2245437.90
Y: 60969.55 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



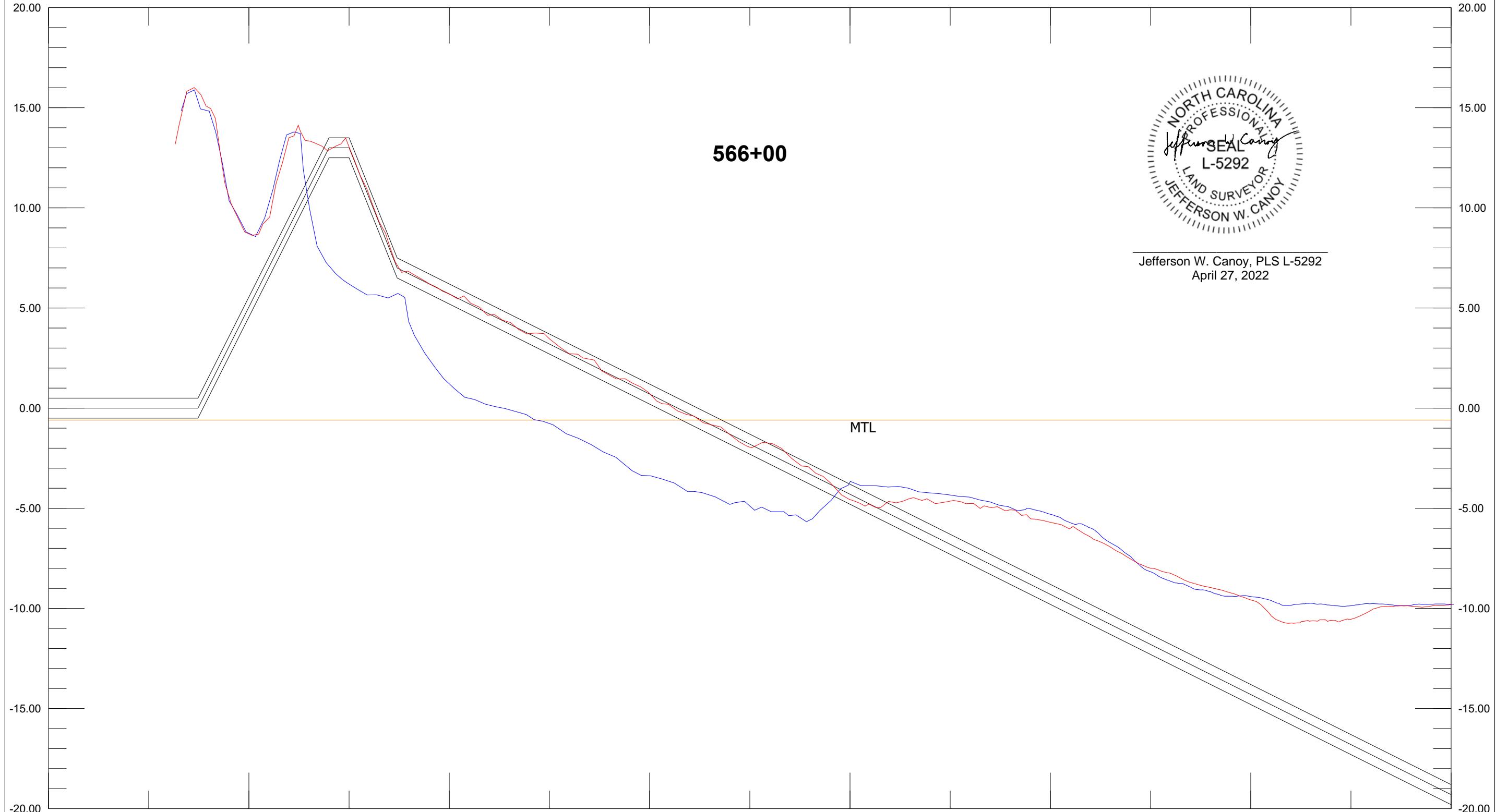
565+00



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Base Survey AD Template DBL 50.00 Ft:In
565+00 565+00 Depth 5.00 Ft:In

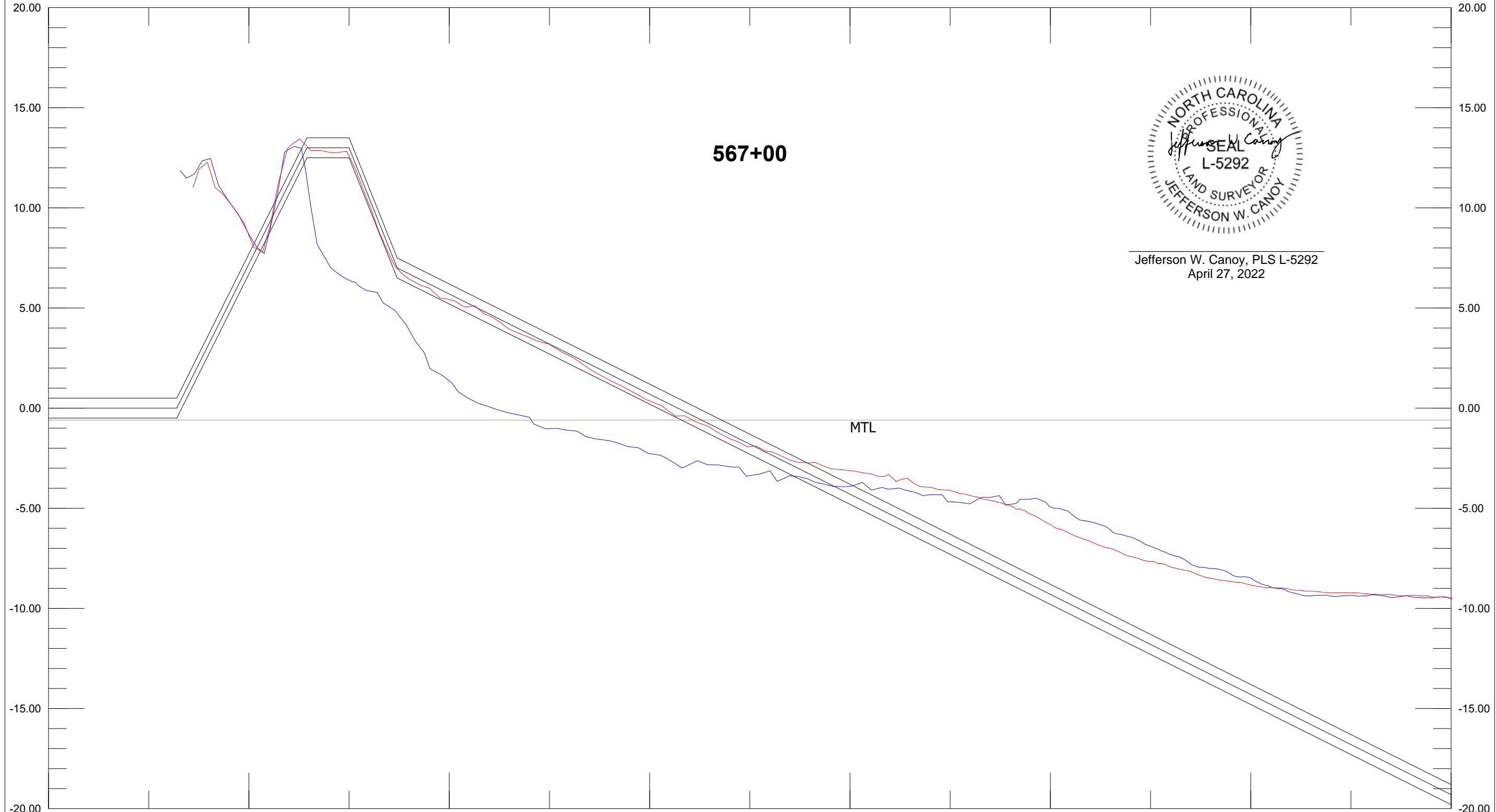
X: 2245266.77 566+00 Length: 1750.00 Azimuth: 177.67 X: 2245337.99
Y: 60965.48 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59216.93



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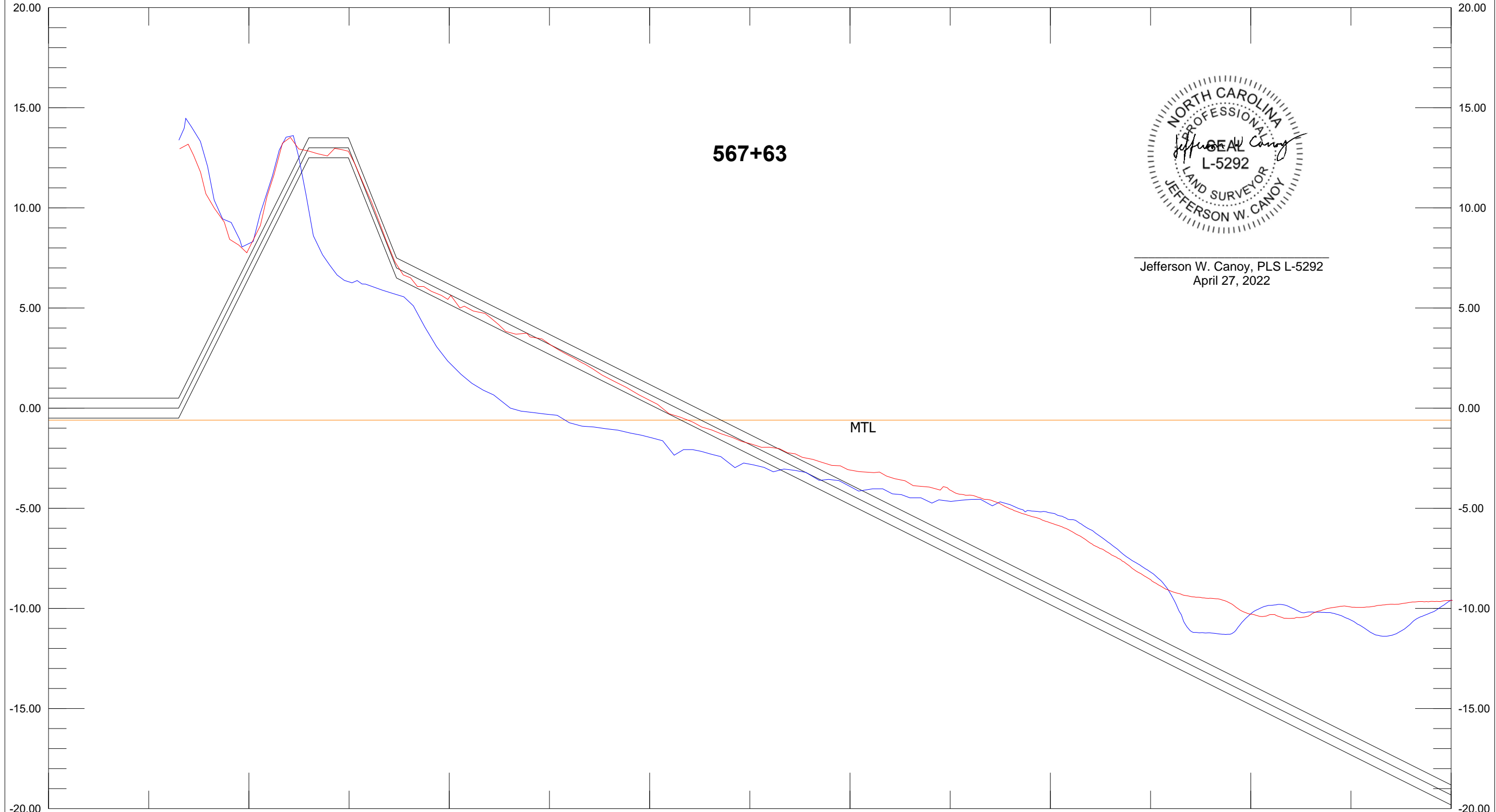
Base Survey AD Template DBL 50.00 Ft:In
566+00 566+00 Depth 5.00 Ft:In

X: 2245166.85 567+00 Length: 1750.00 Azimuth: 177.67 X: 2245238.07
Y: 60961.41 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



Base Survey AD Template DBL 50.00 Ft:In
567+00 567+00 Depth 5.00 Ft:In

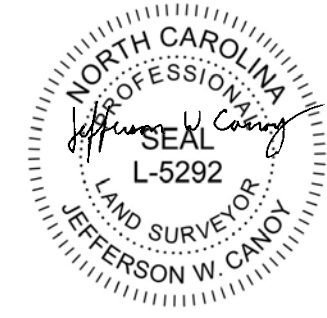
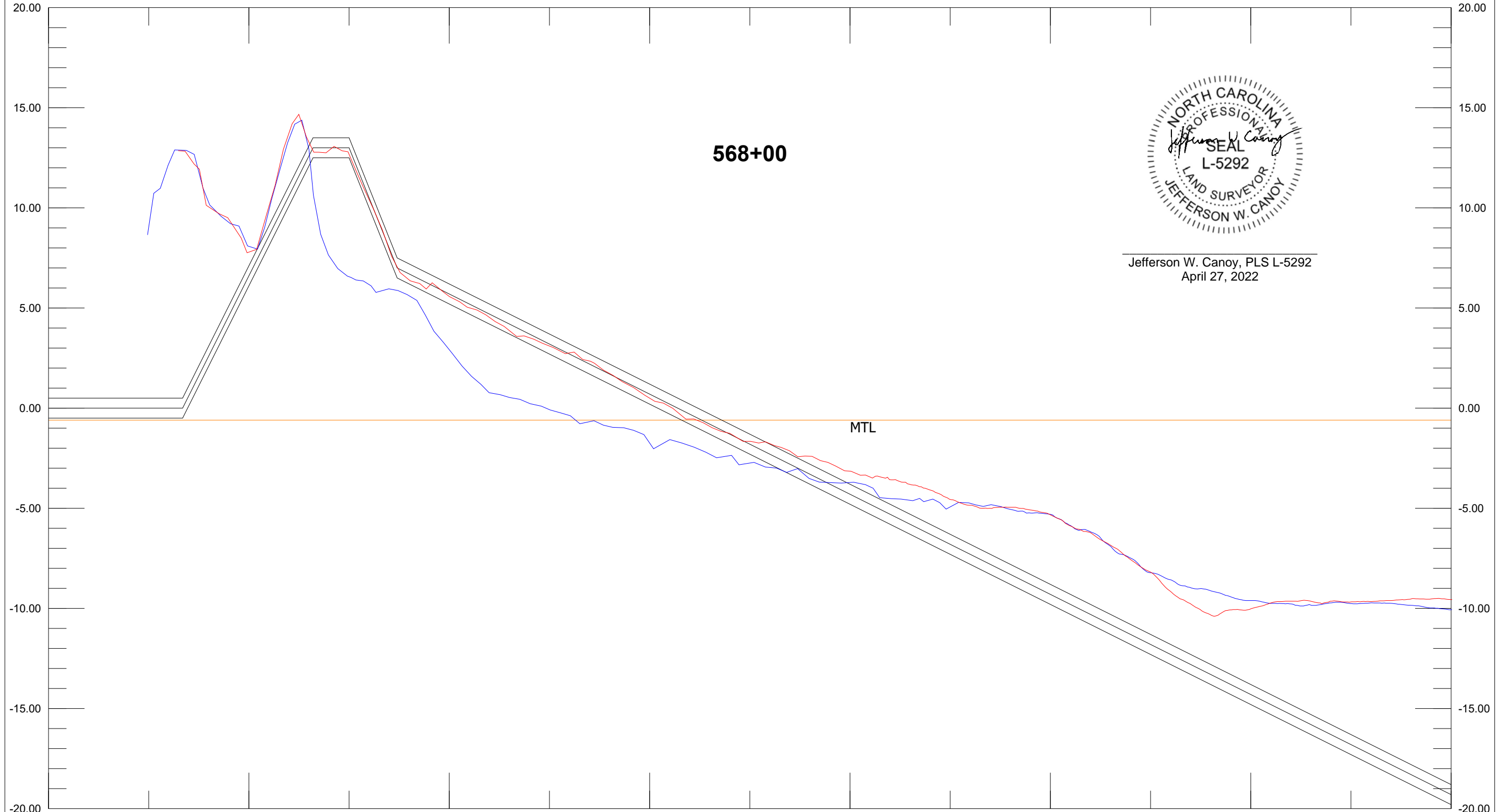
X: 2245104.25 567+63 Length: 1750.00 Azimuth: 177.67 X: 2245175.47
Y: 60958.52 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59209.97



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Base Survey AD Template DBL 50.00 Ft:In
567+63 567+63 Depth 5.00 Ft:In

X: 2245073.56 568+00 Length: 1750.00 Azimuth: 179.19 X: 2245098.22
Y: 60958.52 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



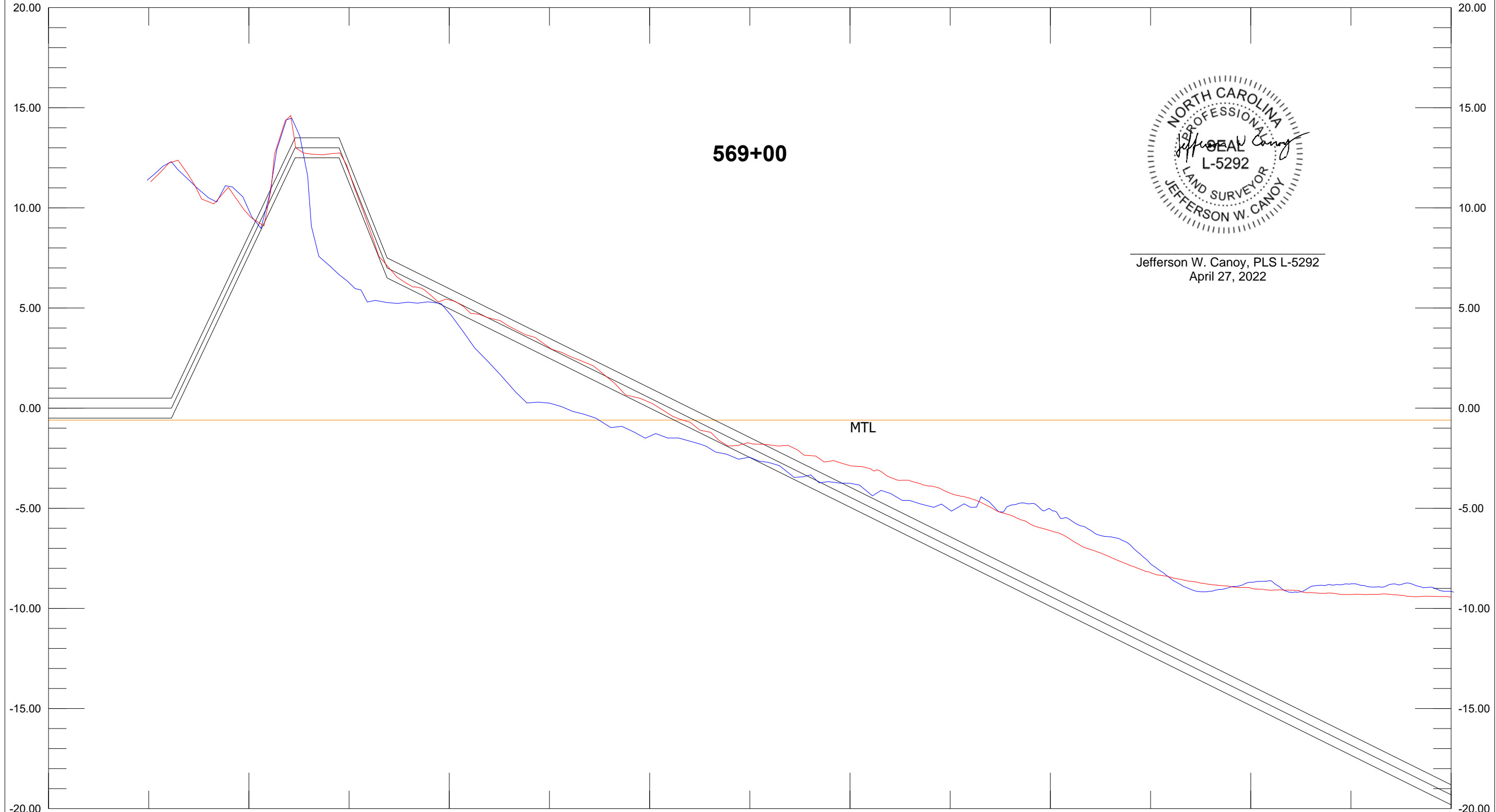
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568+00

MTL

Base Survey AD Template DBL 50.00 Ft:In
568+00 568+00 Depth 5.00 Ft:In

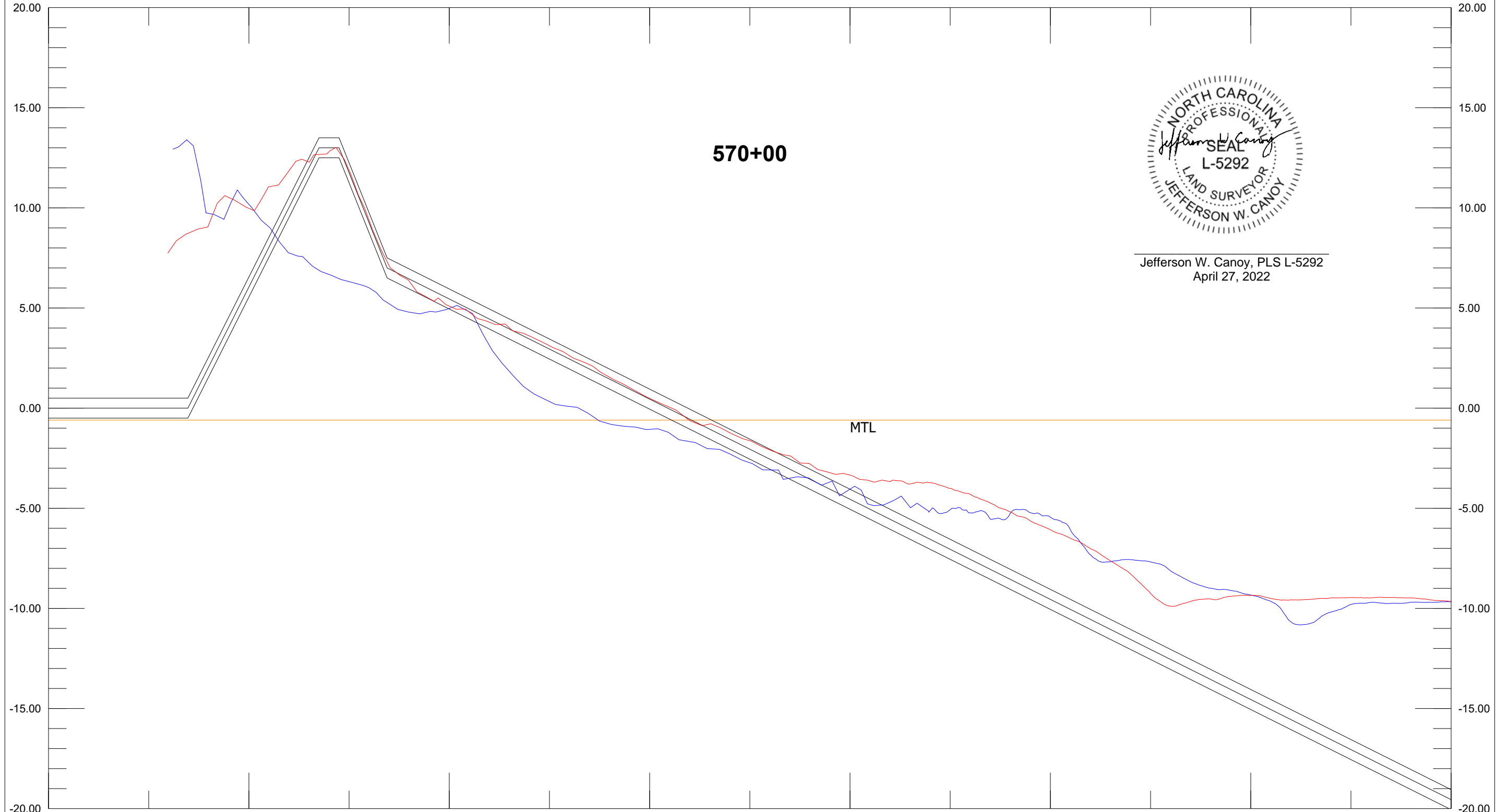
X: 2244973.57 569+00 Length: 1750.00 Azimuth: 179.19 X: 2244998.23
Y: 60957.11 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
569+00 569+00 Depth 5.00 Ft:In

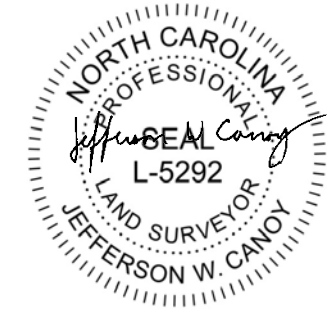
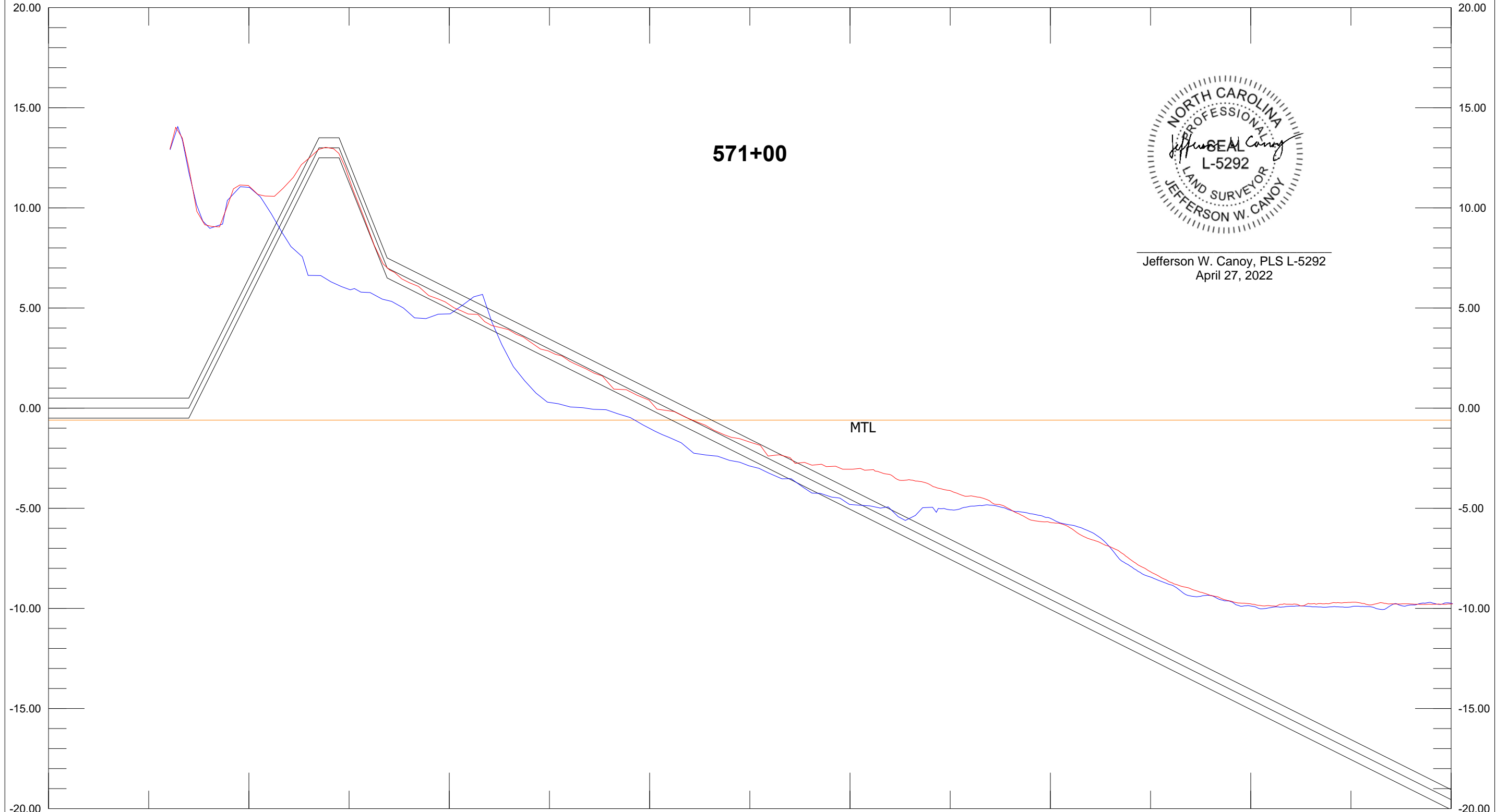
X: 2244873.58 570+00 Length: 1750.01 Azimuth: 179.19 X: 2244898.24
Y: 60955.71 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59205.87



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Base Survey AD Template DBL 50.00 Ft:In
570+00 570+00 Depth 5.00 Ft:In

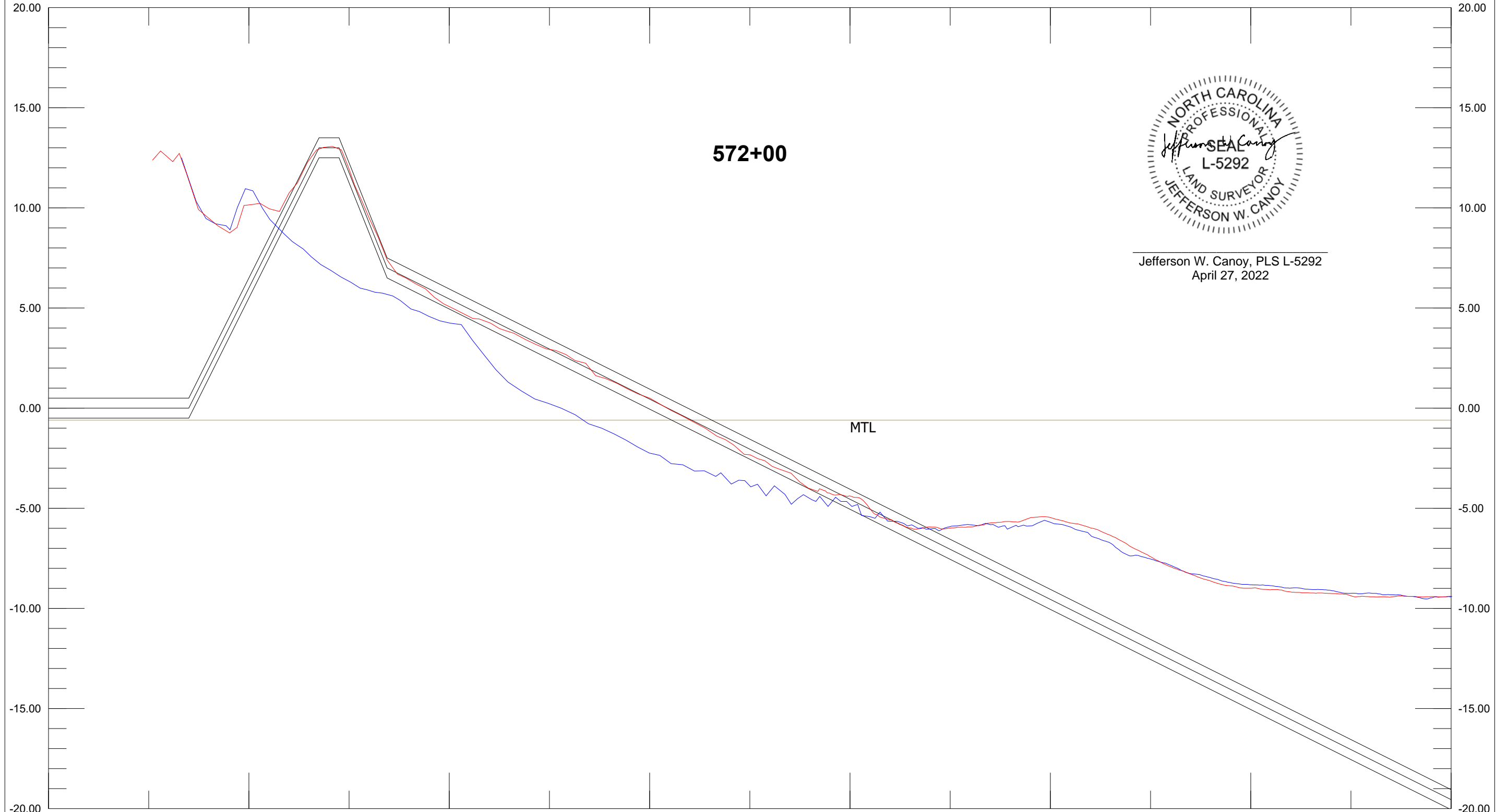
X: 2244773.59 571+00 Length: 1750.01 Azimuth: 179.19 X: 2244798.25
Y: 60954.30 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59204.46



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Base Survey AD Template DBL 50.00 Ft:In
571+00 571+00 Depth 5.00 Ft:In

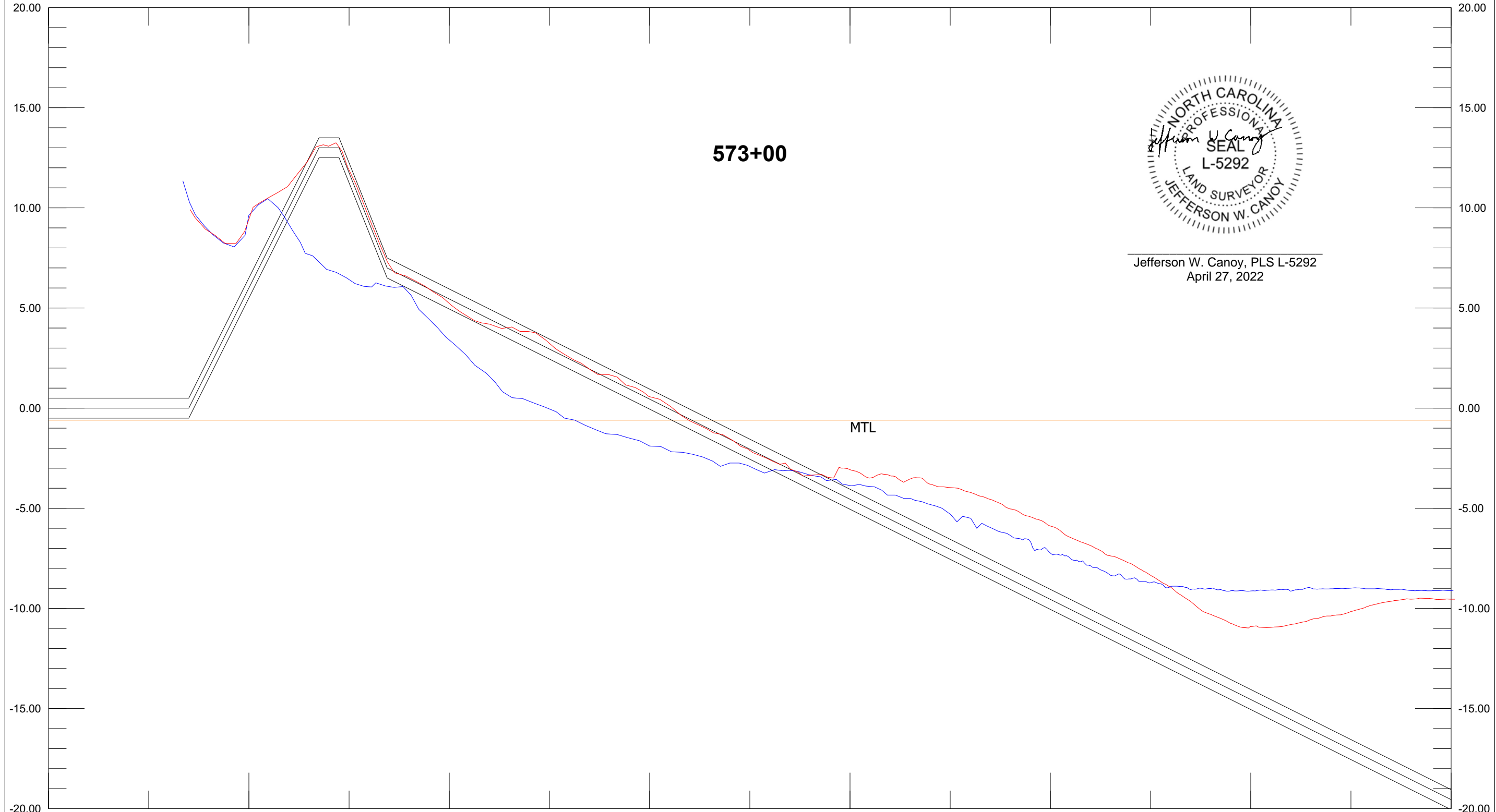
X: 2244673.60 572+00 Length: 1750.00 Azimuth: 179.19 X: 2244698.26
Y: 60952.89 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59203.06



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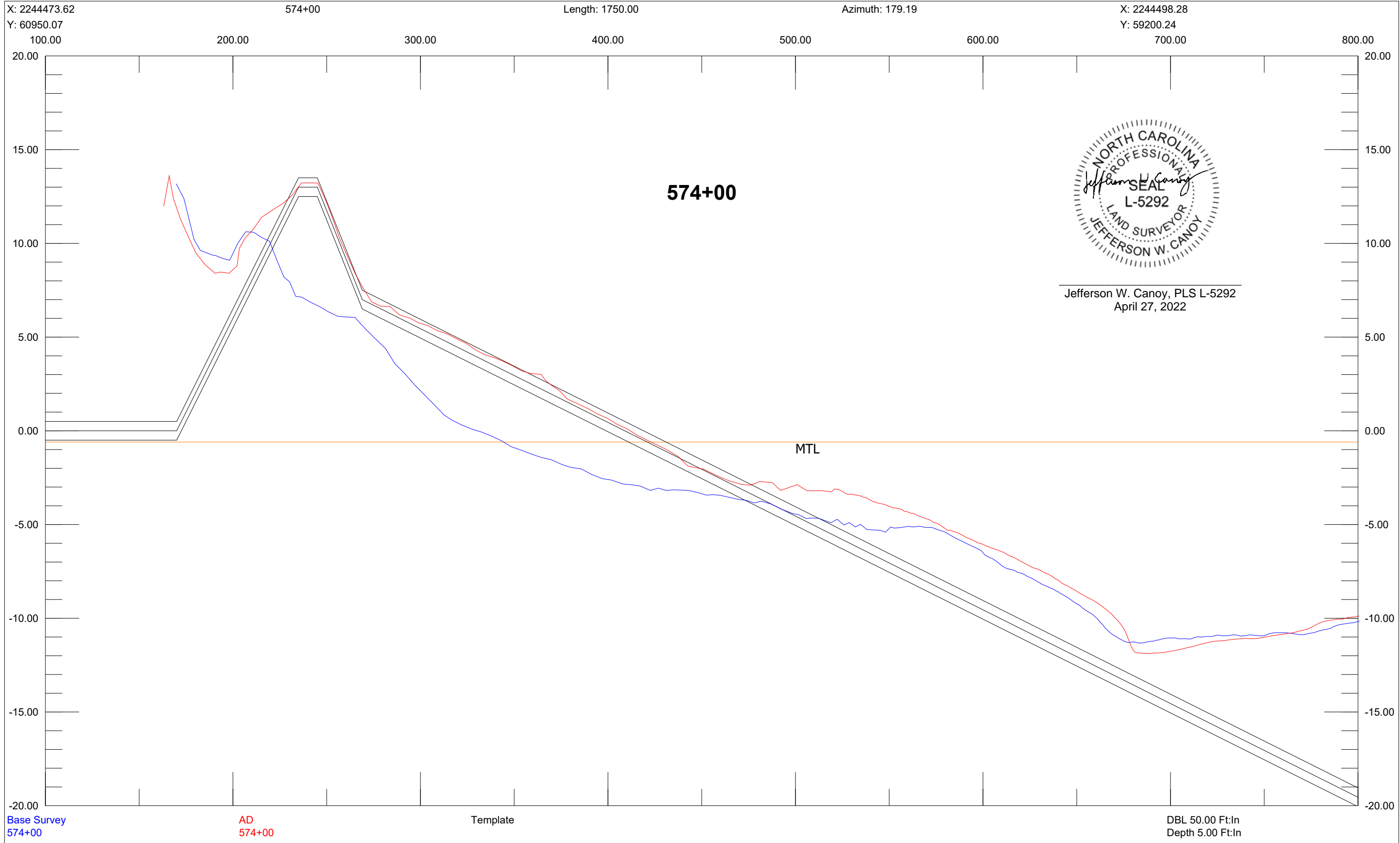
Base Survey 572+00 AD 572+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

X: 2244573.61 573+00 Length: 1750.00 Azimuth: 179.19 X: 2244598.27
Y: 60951.48 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59201.65

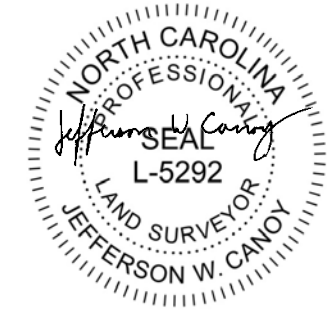
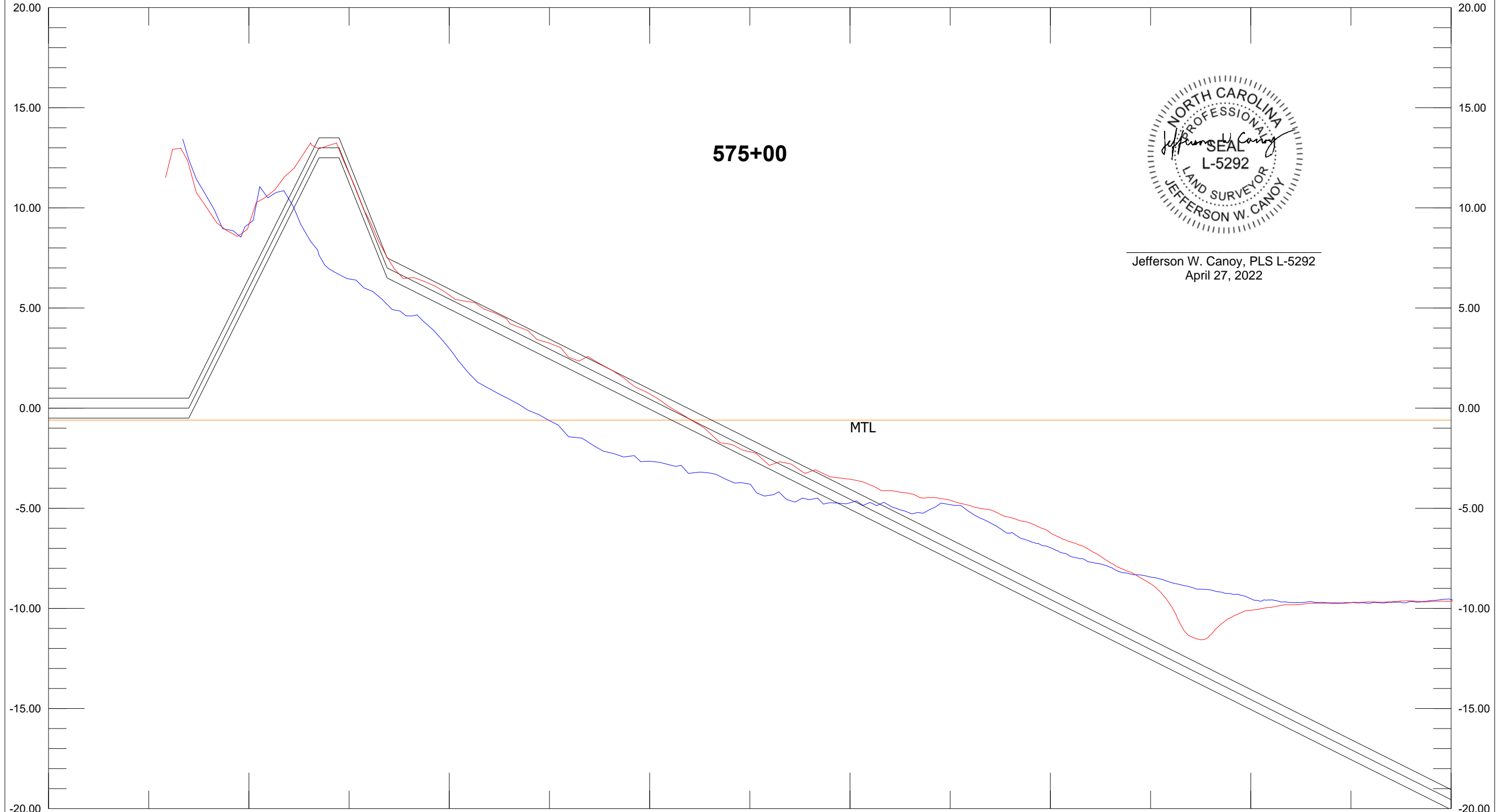


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Base Survey AD Template DBL 50.00 Ft:In
573+00 573+00 Depth 5.00 Ft:In

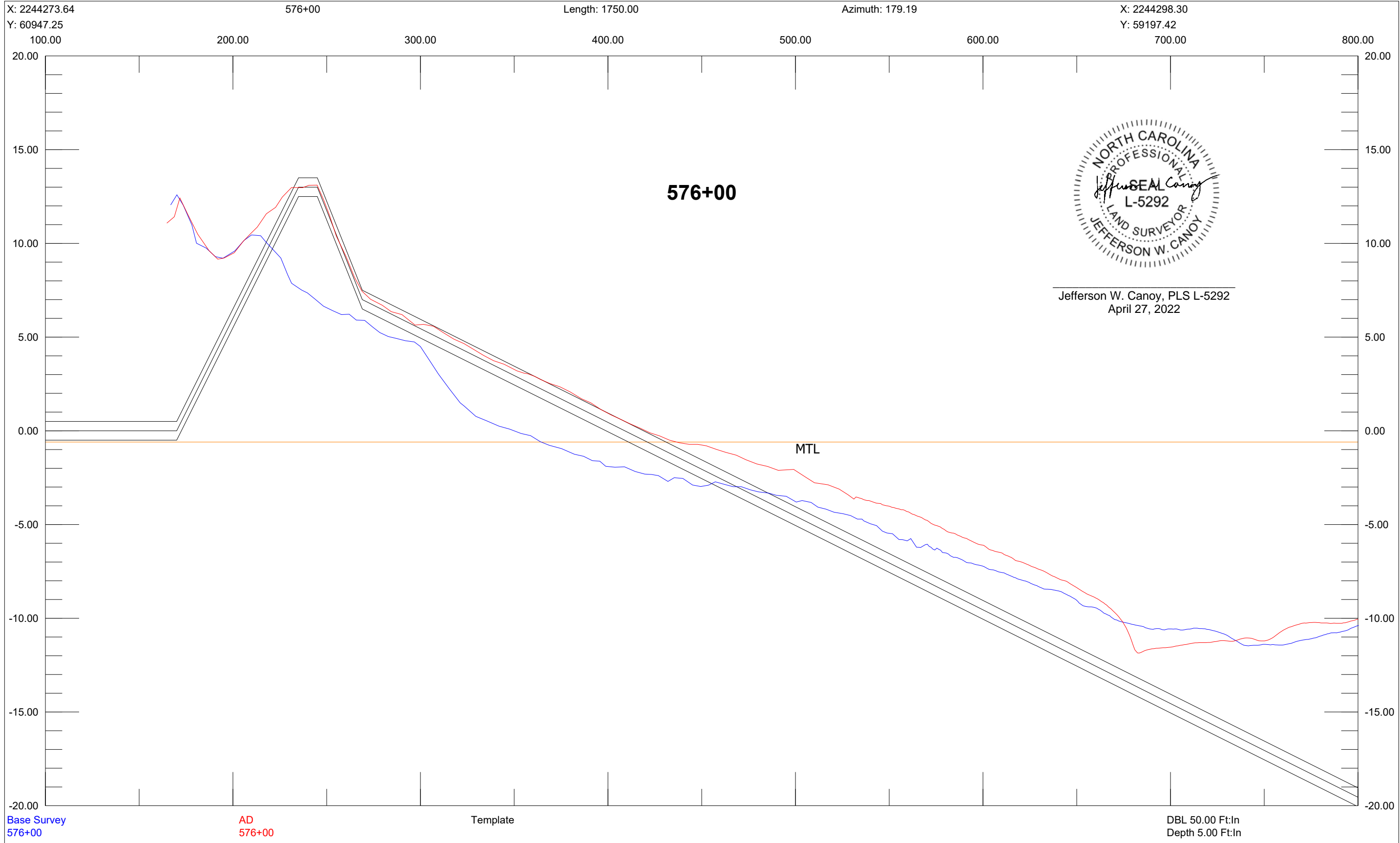


X: 2244373.63 575+00 Length: 1750.00 Azimuth: 179.19 X: 2244398.29
Y: 60948.66 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59198.83

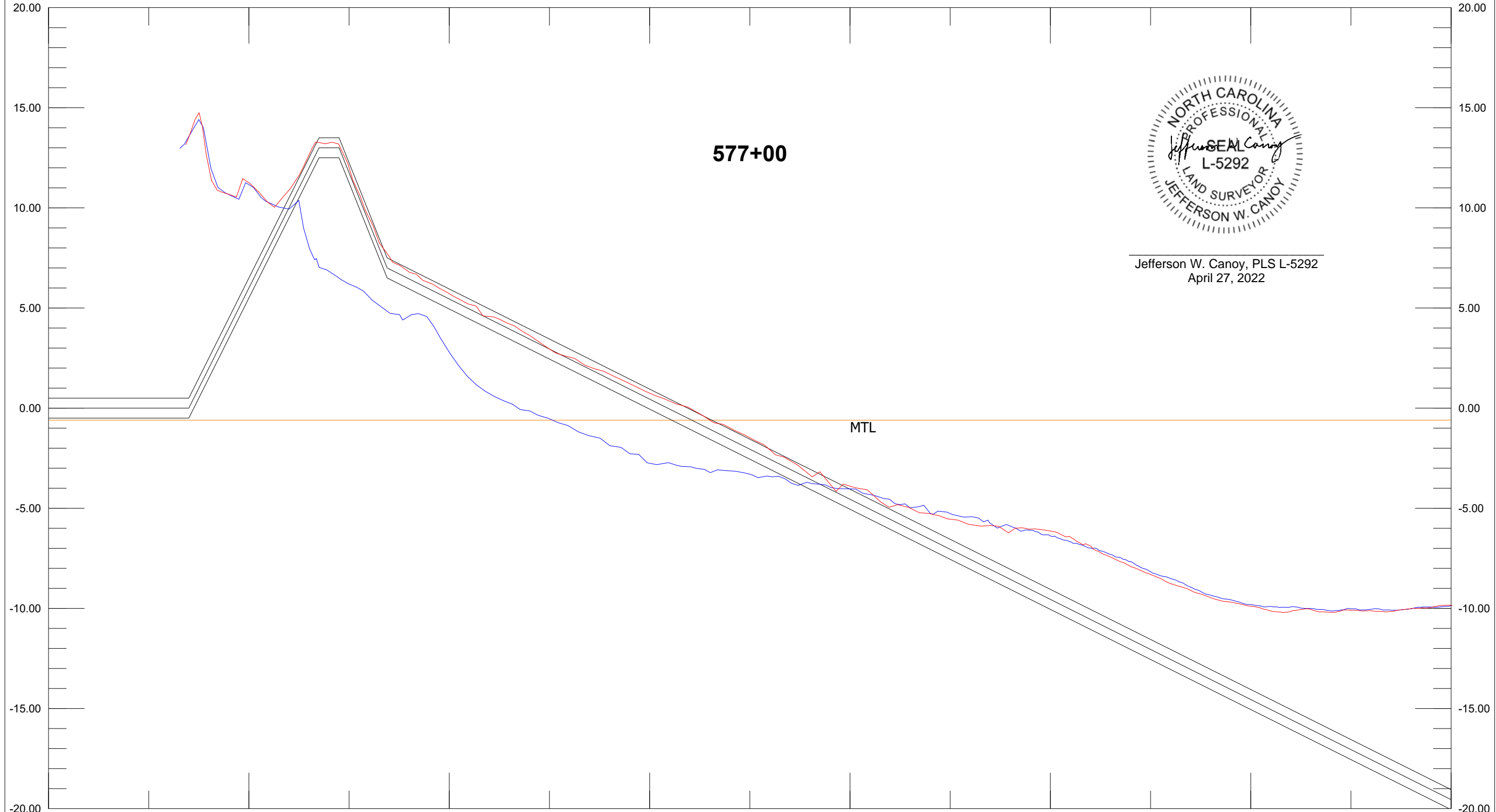


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Base Survey AD Template DBL 50.00 Ft:In
575+00 575+00 Depth 5.00 Ft:In



X: 2244173.65 577+00 Length: 1750.00 Azimuth: 179.19 X: 2244198.31
Y: 60945.84 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59196.01



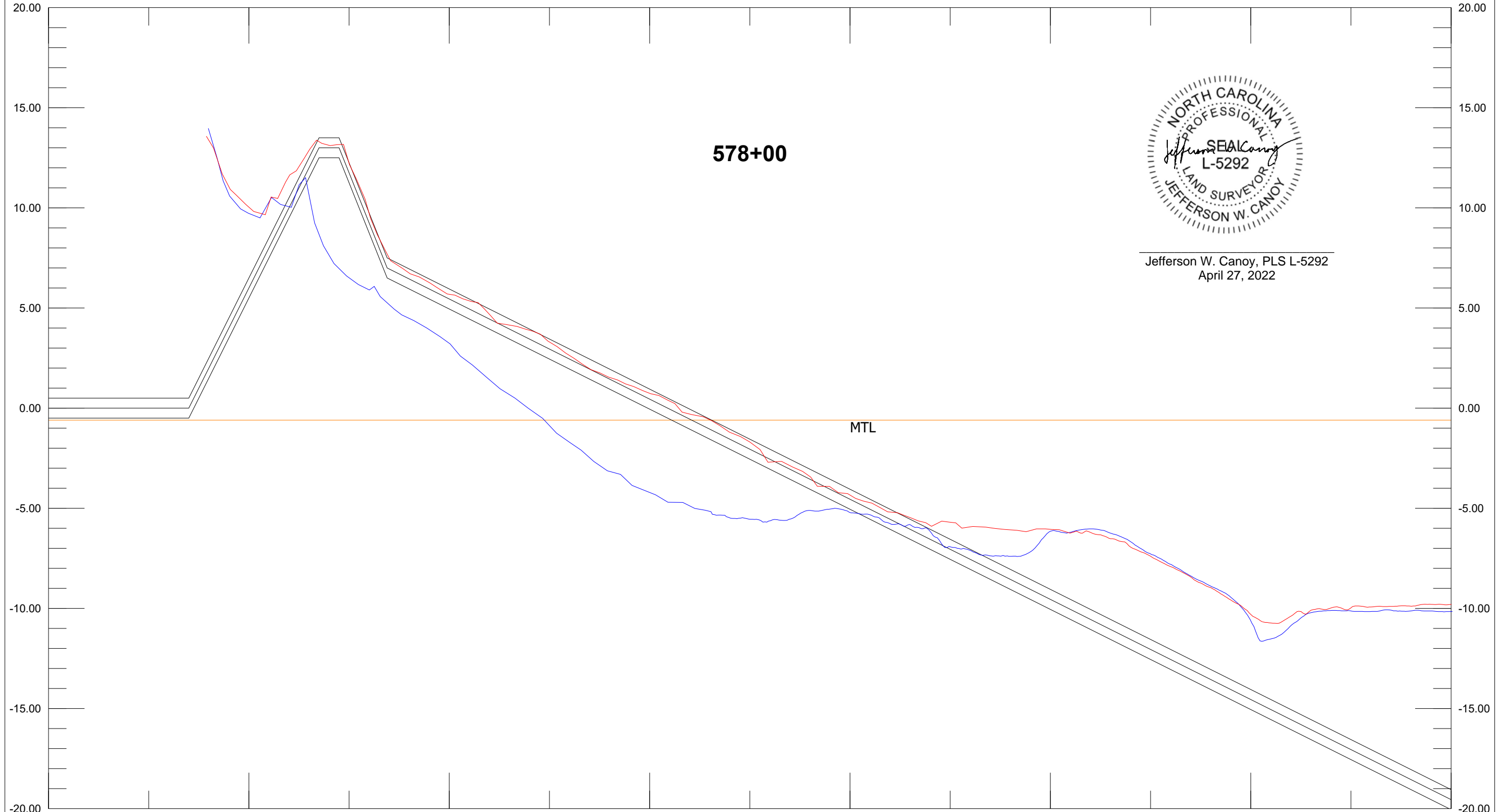
577+00



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Base Survey AD Template DBL 50.00 Ft:In
577+00 577+00 Depth 5.00 Ft:In

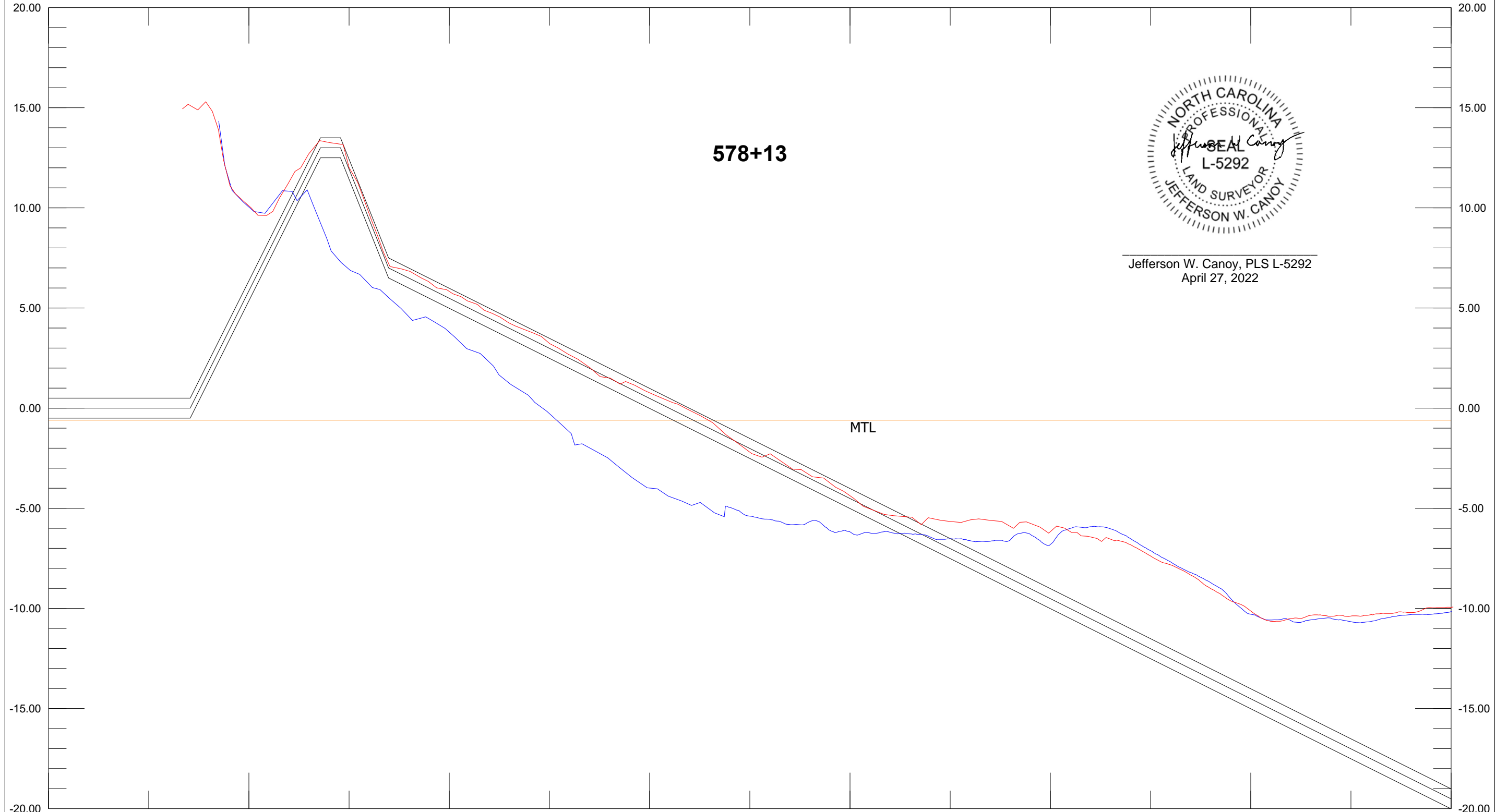
X: 2244073.66 578+00 Length: 1750.00 Azimuth: 179.19 X: 2244098.32
Y: 60944.43 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59194.60



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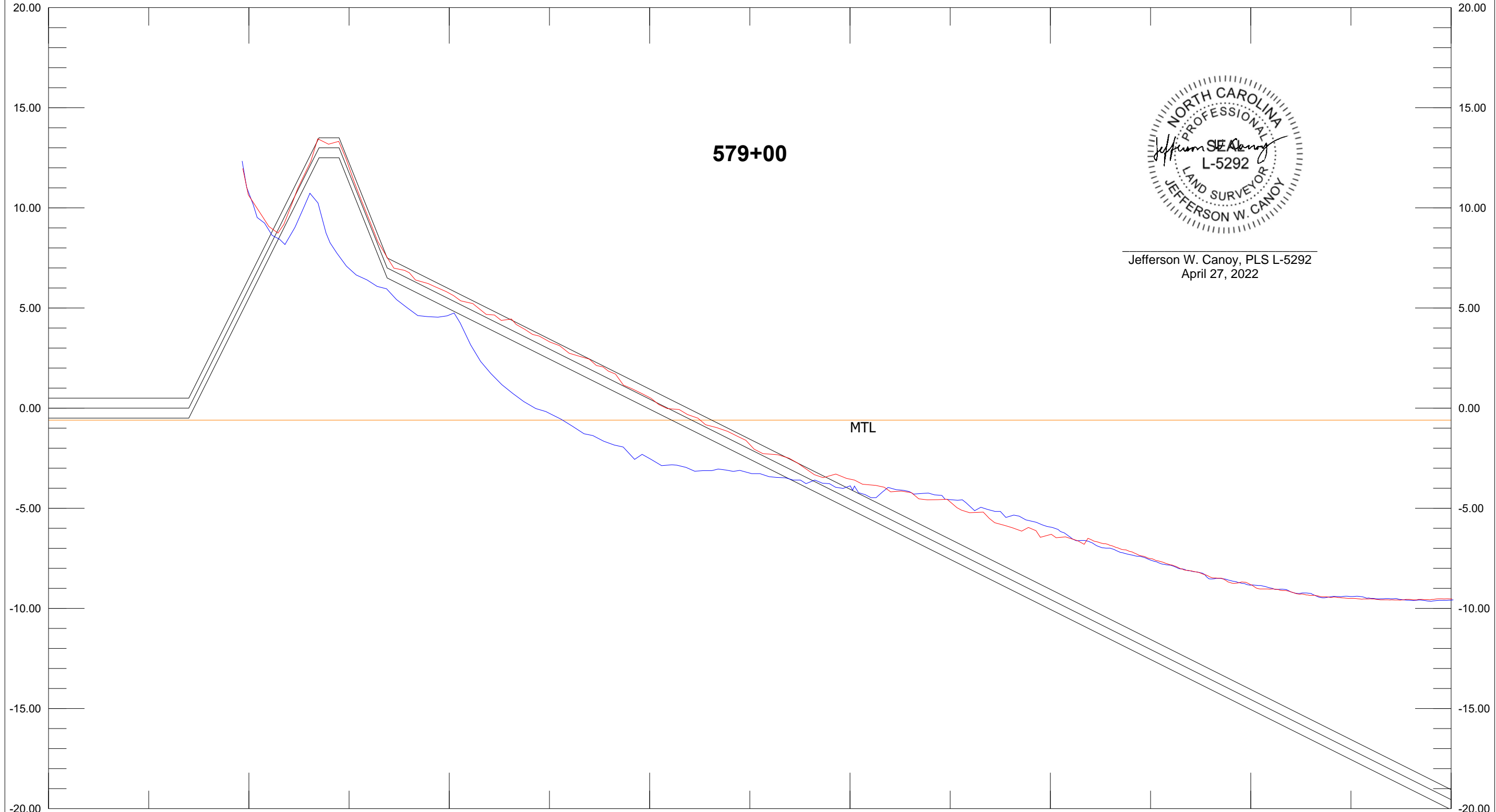
Base Survey AD Template DBL 50.00 Ft:In
578+00 578+00 Depth 5.00 Ft:In

X: 2244054.43 578+13 Length: 1750.00 Azimuth: 179.19 X: 2244079.09
Y: 60944.86 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59195.03



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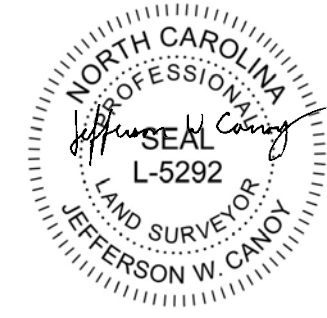
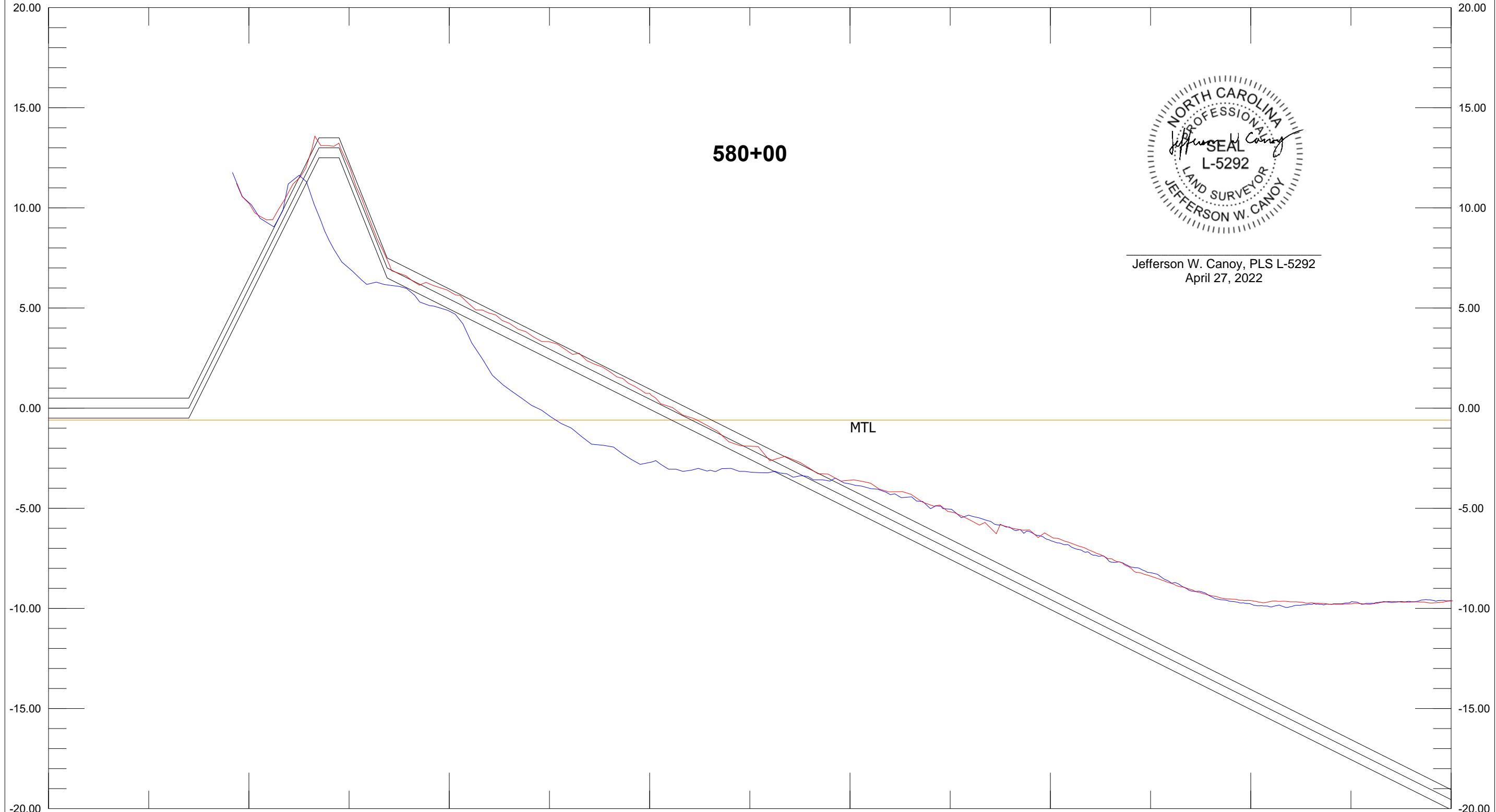
X: 2243969.37 579+00 Length: 1750.00 Azimuth: 178.20 X: 2244024.30
Y: 60941.52 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59192.38



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Base Survey AD Template DBL 50.00 Ft:In
579+00 579+00 Depth 5.00 Ft:In

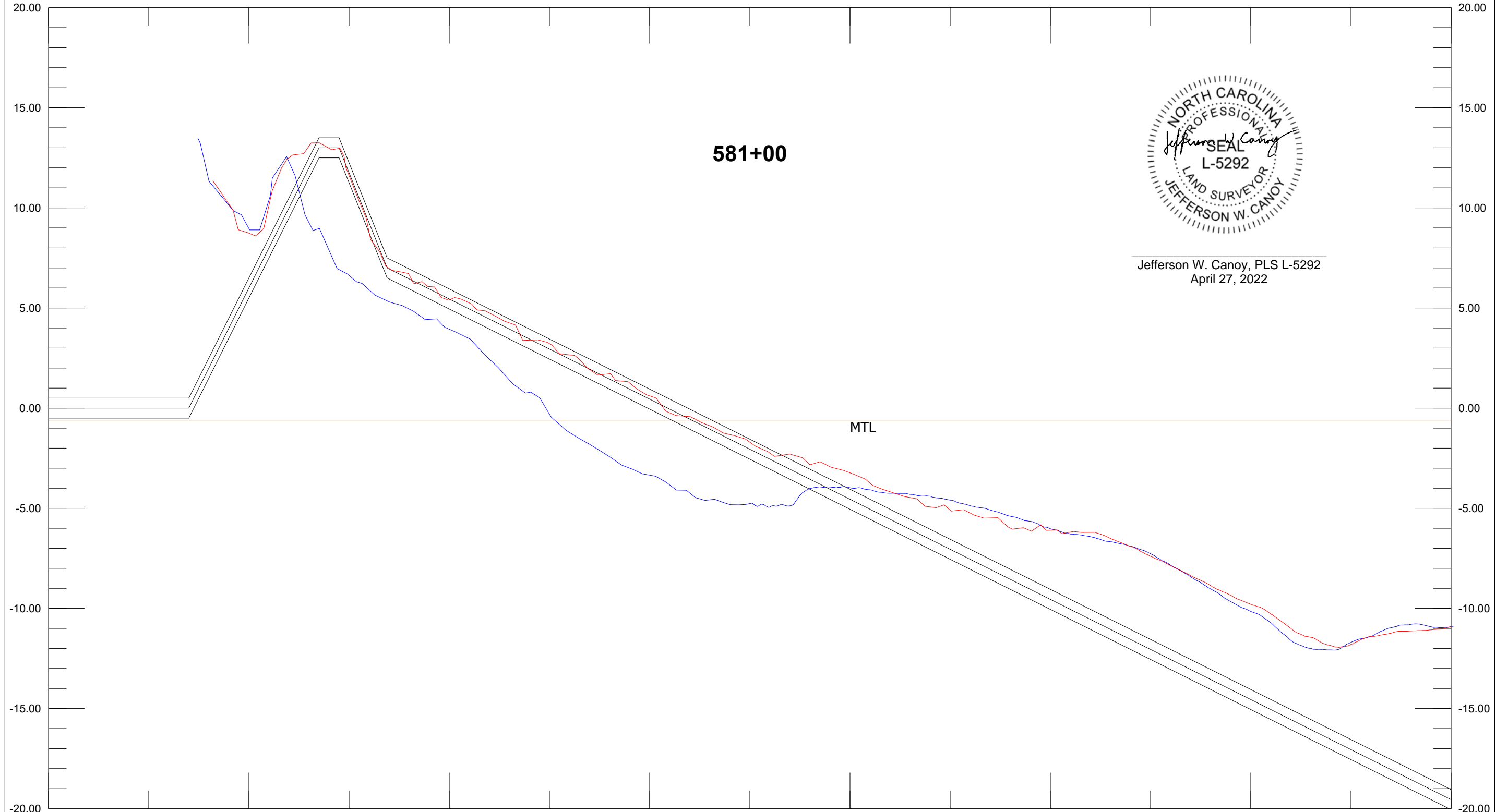
X: 2243869.42 580+00 Length: 1750.01 Azimuth: 178.20 X: 2243924.35
Y: 60938.39 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
580+00 580+00 Depth 5.00 Ft:In

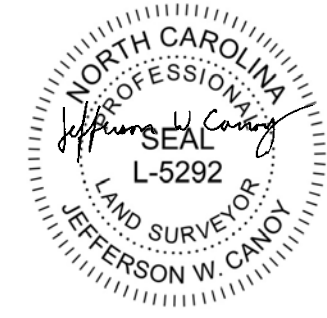
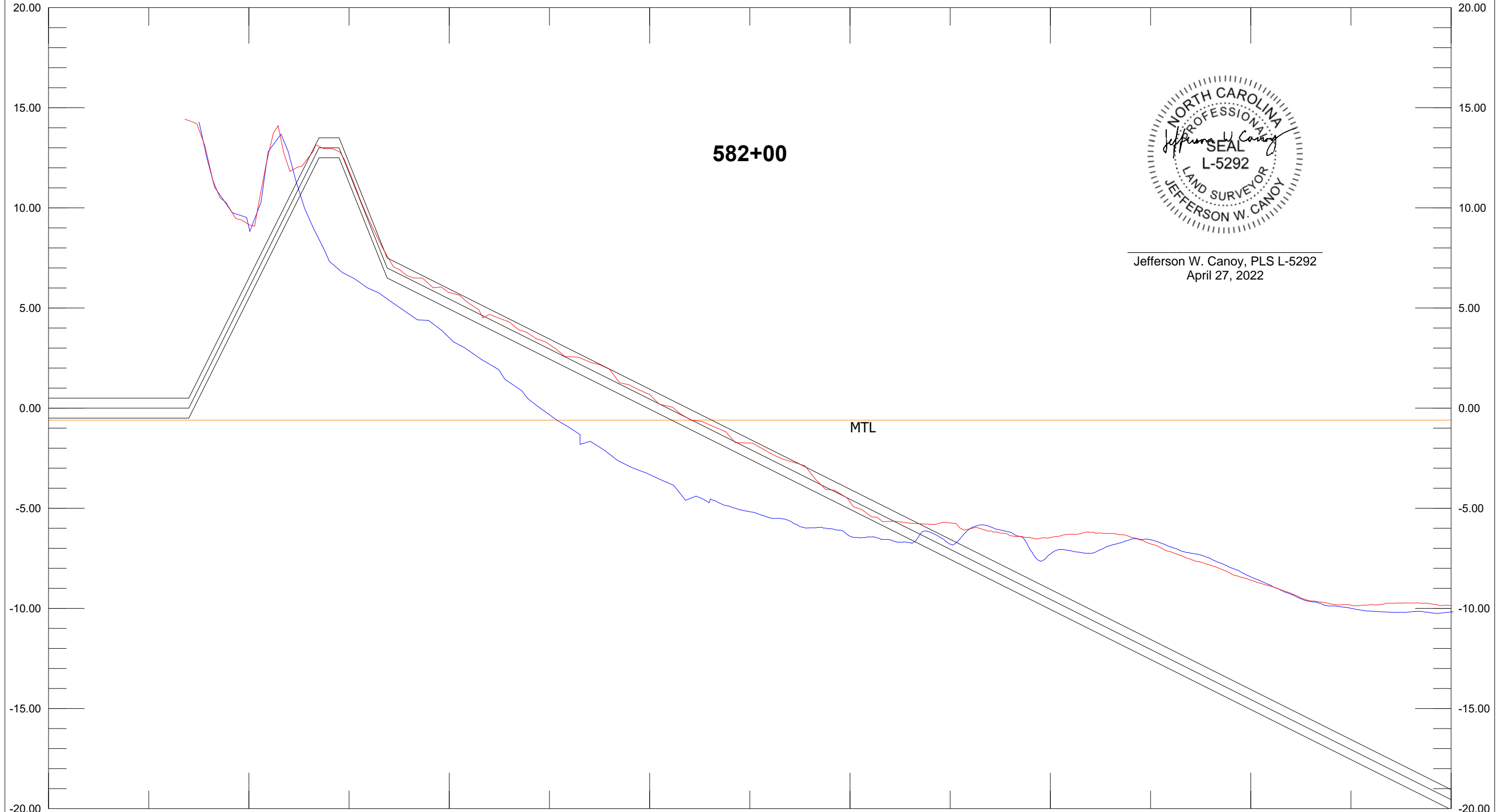
X: 2243769.47 581+00 Length: 1750.00 Azimuth: 178.20 X: 2243824.40
Y: 60935.25 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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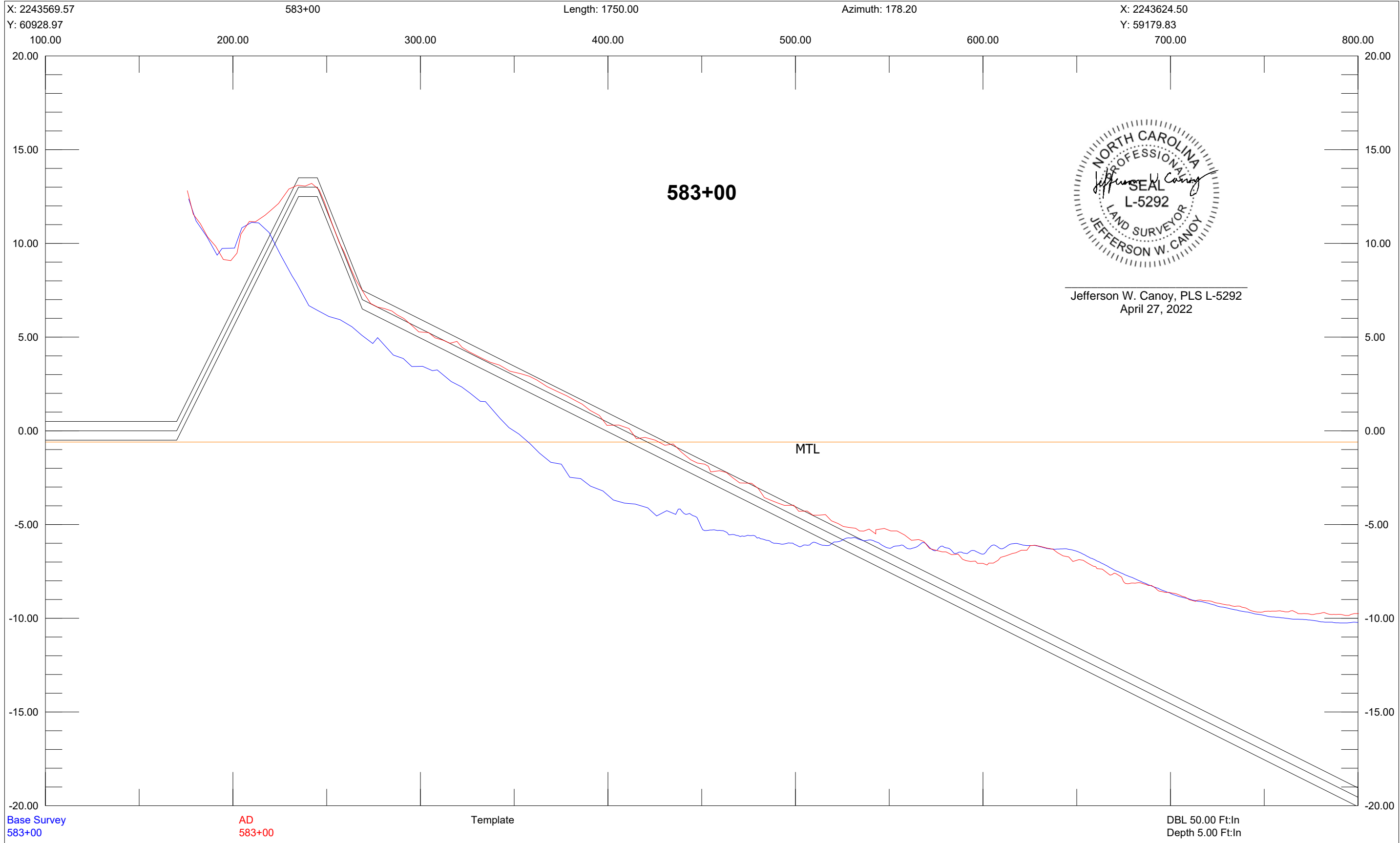
Base Survey AD Template DBL 50.00 Ft:In
581+00 581+00 Depth 5.00 Ft:In

X: 2243669.52 582+00 Length: 1750.00 Azimuth: 178.20 X: 2243724.45
Y: 60932.11 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59182.97

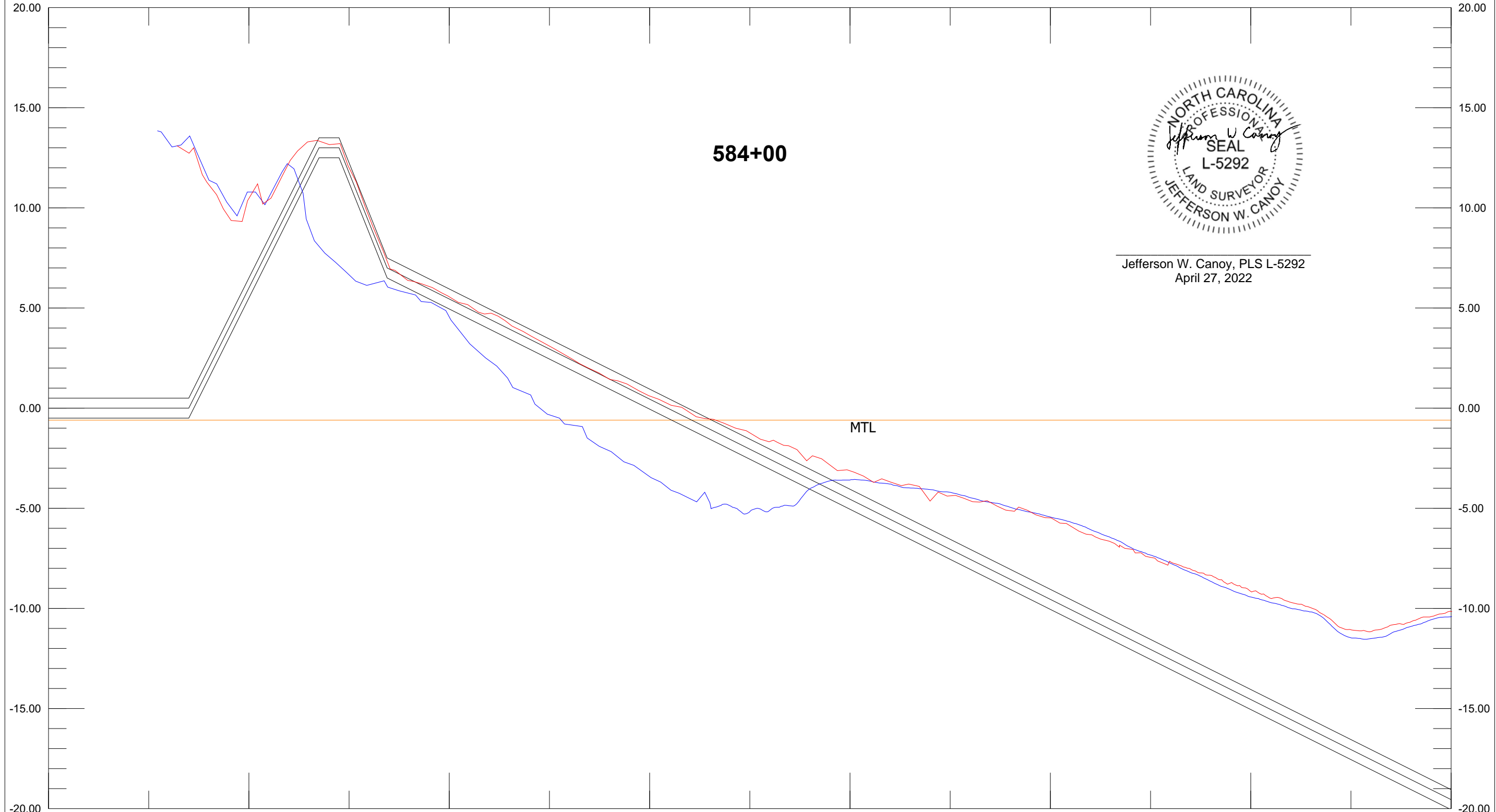


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Base Survey AD Template DBL 50.00 Ft:In
582+00 582+00 Depth 5.00 Ft:In



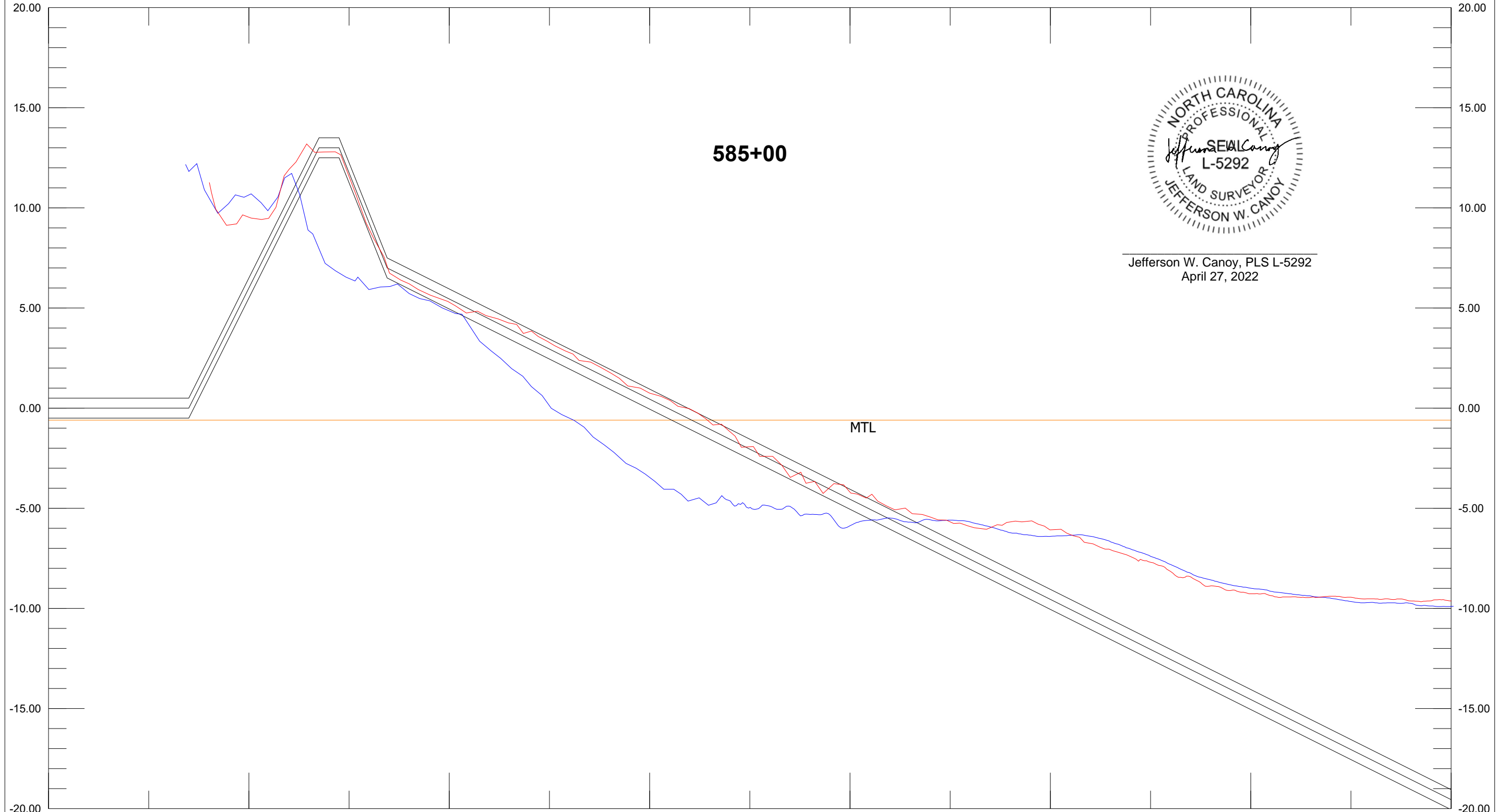
X: 2243469.62 584+00 Length: 1750.00 Azimuth: 178.20 X: 2243524.55
Y: 60925.83 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59176.69



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Base Survey AD Template DBL 50.00 Ft:In
584+00 584+00 Depth 5.00 Ft:In

X: 2243369.66 585+00 Length: 1750.00 Azimuth: 178.20 X: 2243424.60
Y: 60922.69 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59173.55



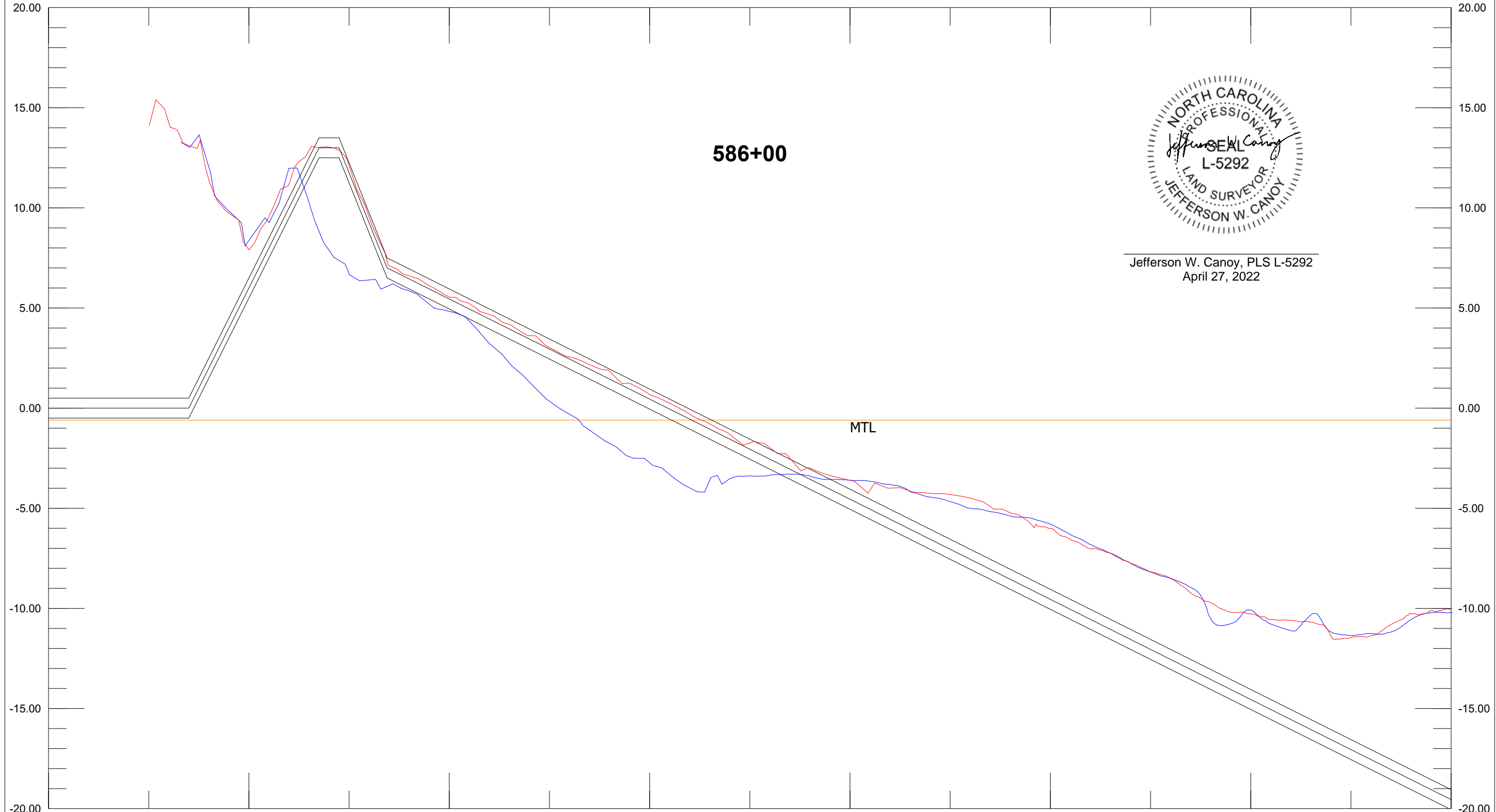
585+00



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Base Survey AD Template DBL 50.00 Ft:In
585+00 585+00

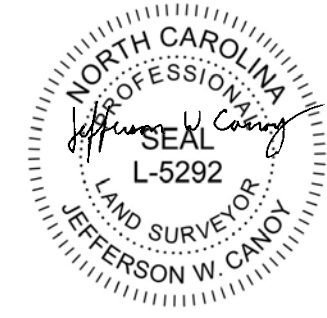
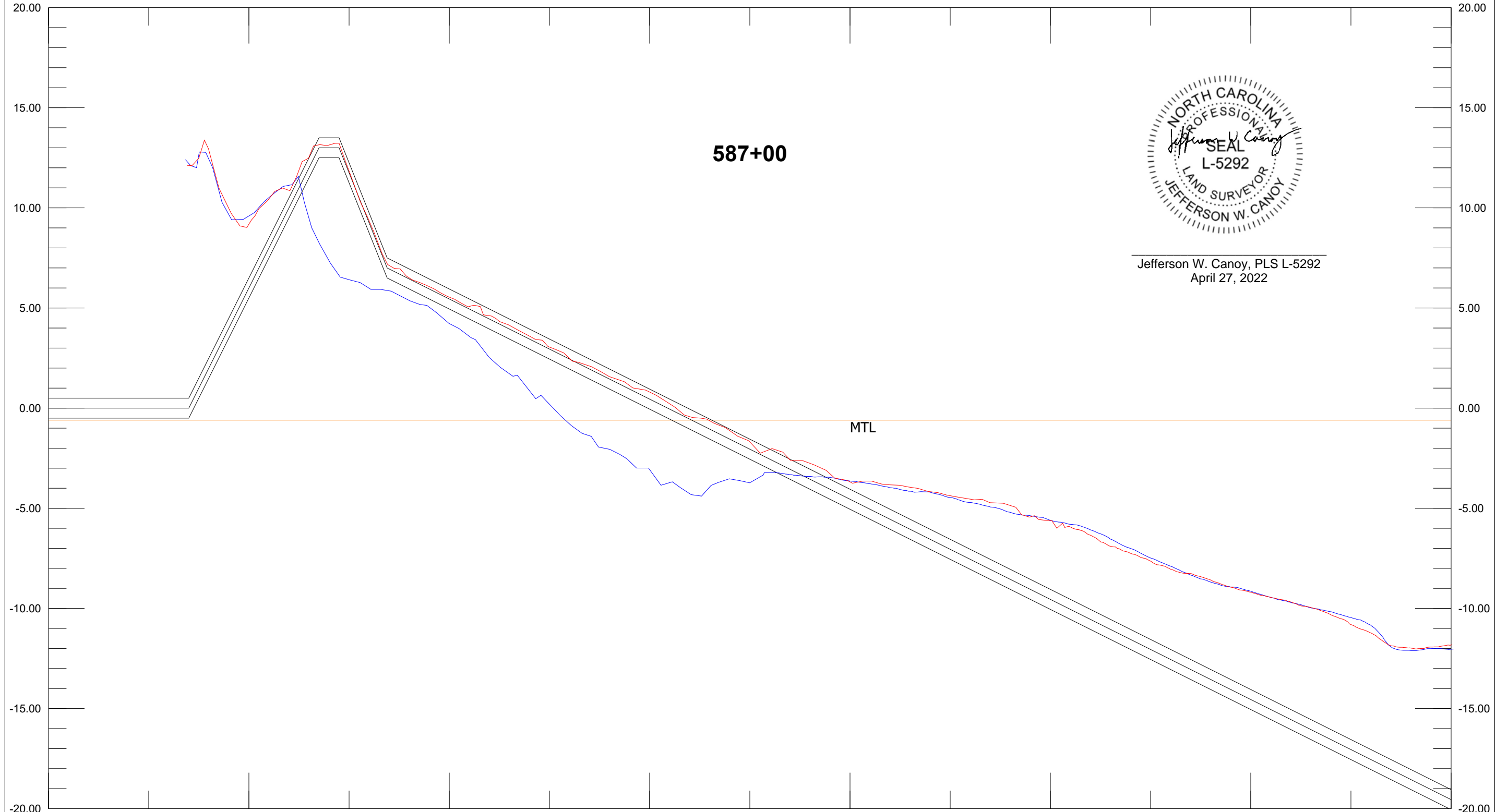
X: 2243269.71 586+00 Length: 1750.00 Azimuth: 178.20 X: 2243324.65
Y: 60919.55 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
586+00 586+00 Depth 5.00 Ft:In

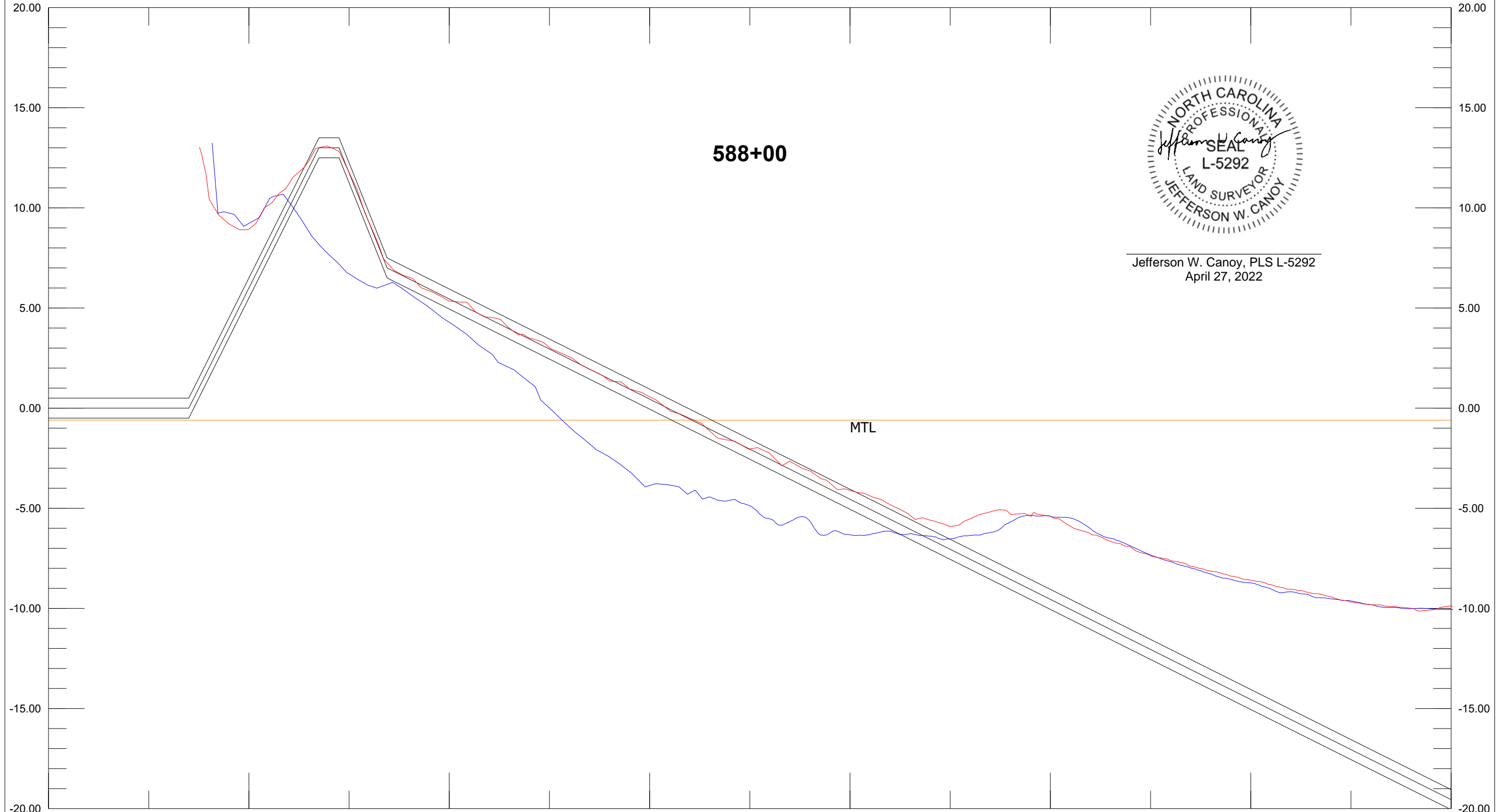
X: 2243169.76 587+00 Length: 1750.00 Azimuth: 178.20 X: 2243224.70
Y: 60916.41 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
587+00 587+00 Depth 5.00 Ft:In

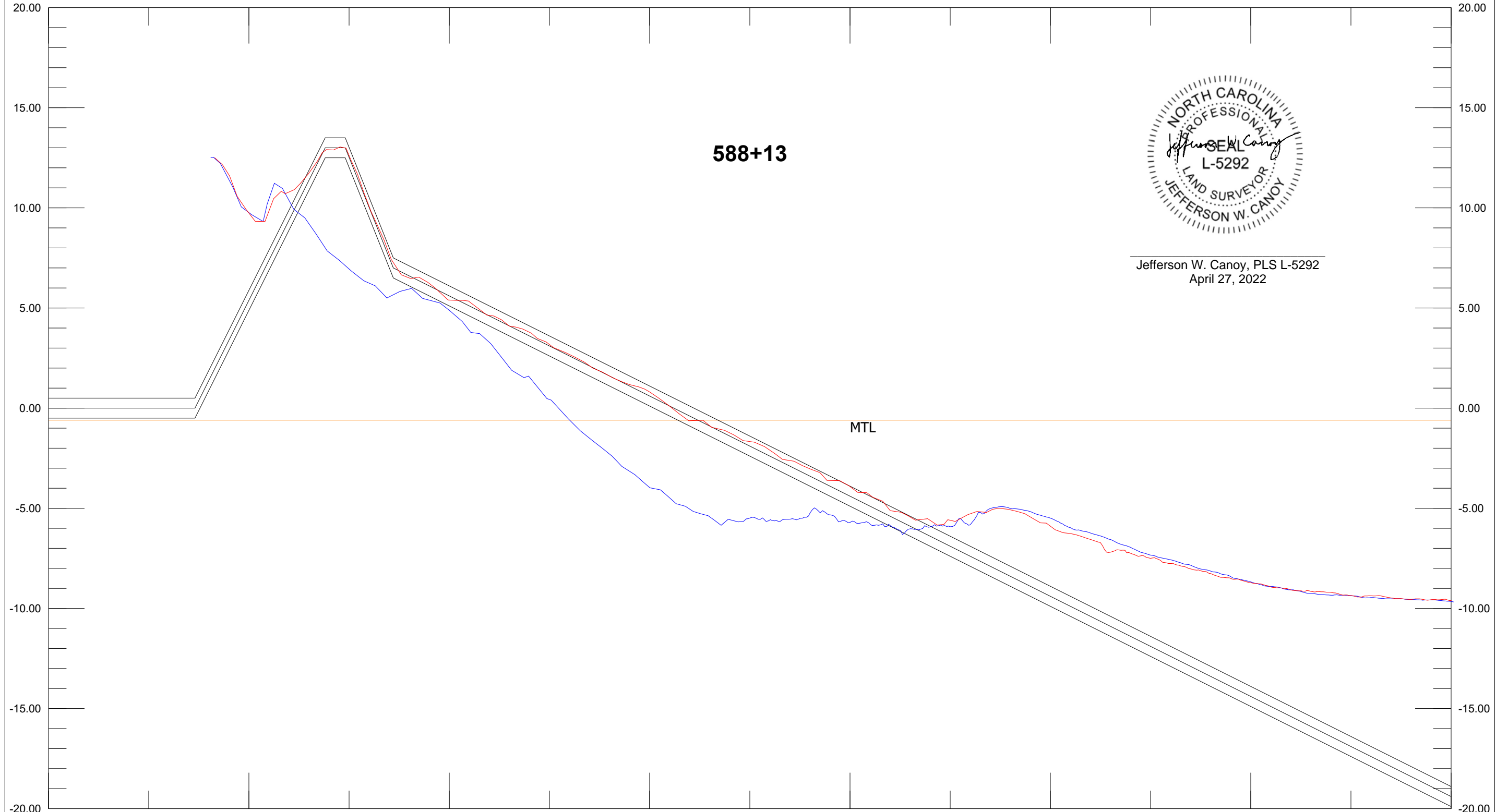
X: 2243069.81 588+00 Length: 1750.00 Azimuth: 178.20 X: 2243124.75
Y: 60913.27 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59164.13



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Base Survey AD Template DBL 50.00 Ft:In
588+00 588+00 Depth 5.00 Ft:In

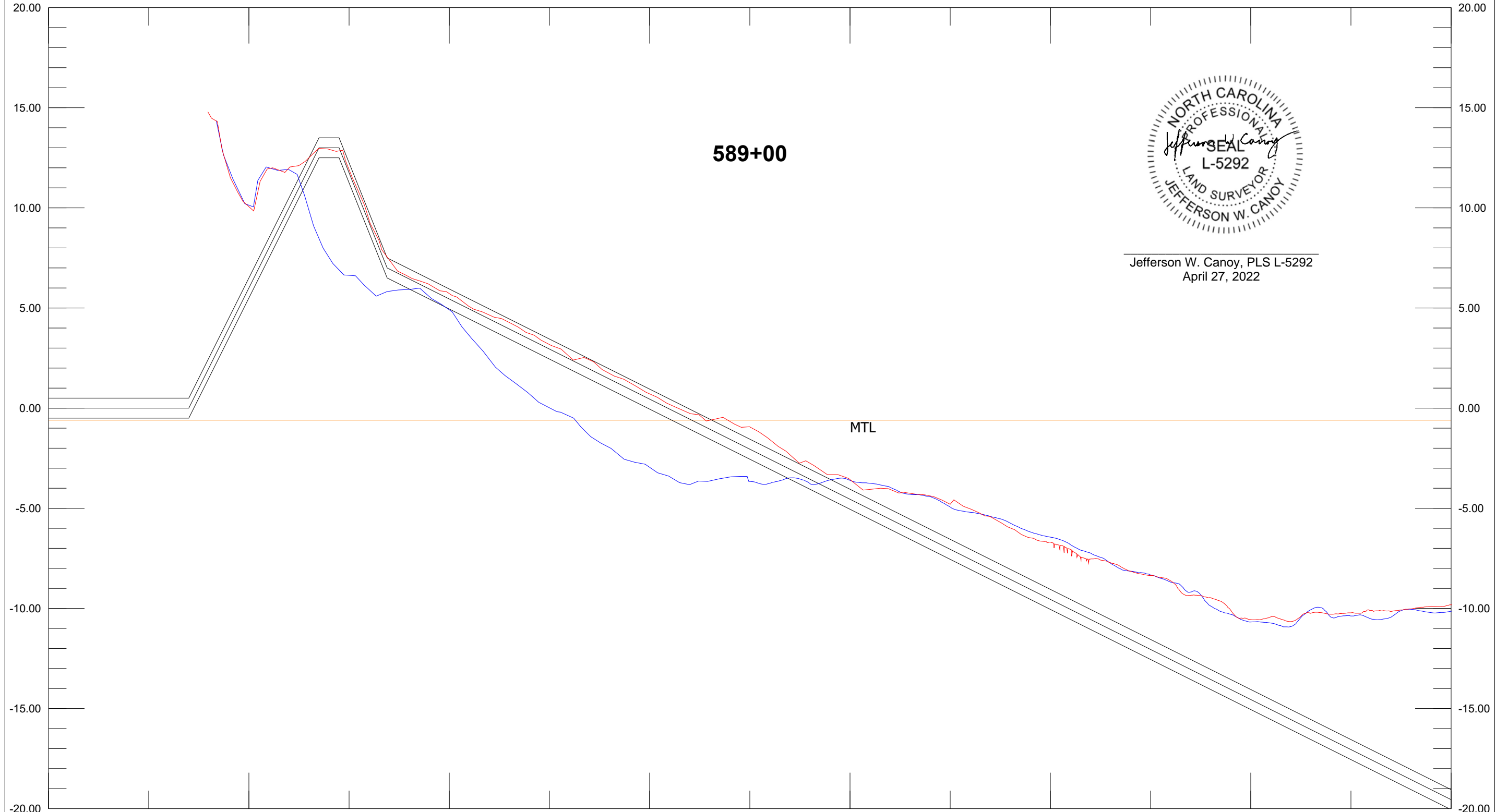
X: 2243051.38 588+13 Length: 1750.00 Azimuth: 178.20 X: 2243106.32
Y: 60915.76 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59166.62



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Base Survey AD Template DBL 50.00 Ft:In
588+13 588+13 Depth 5.00 Ft:In

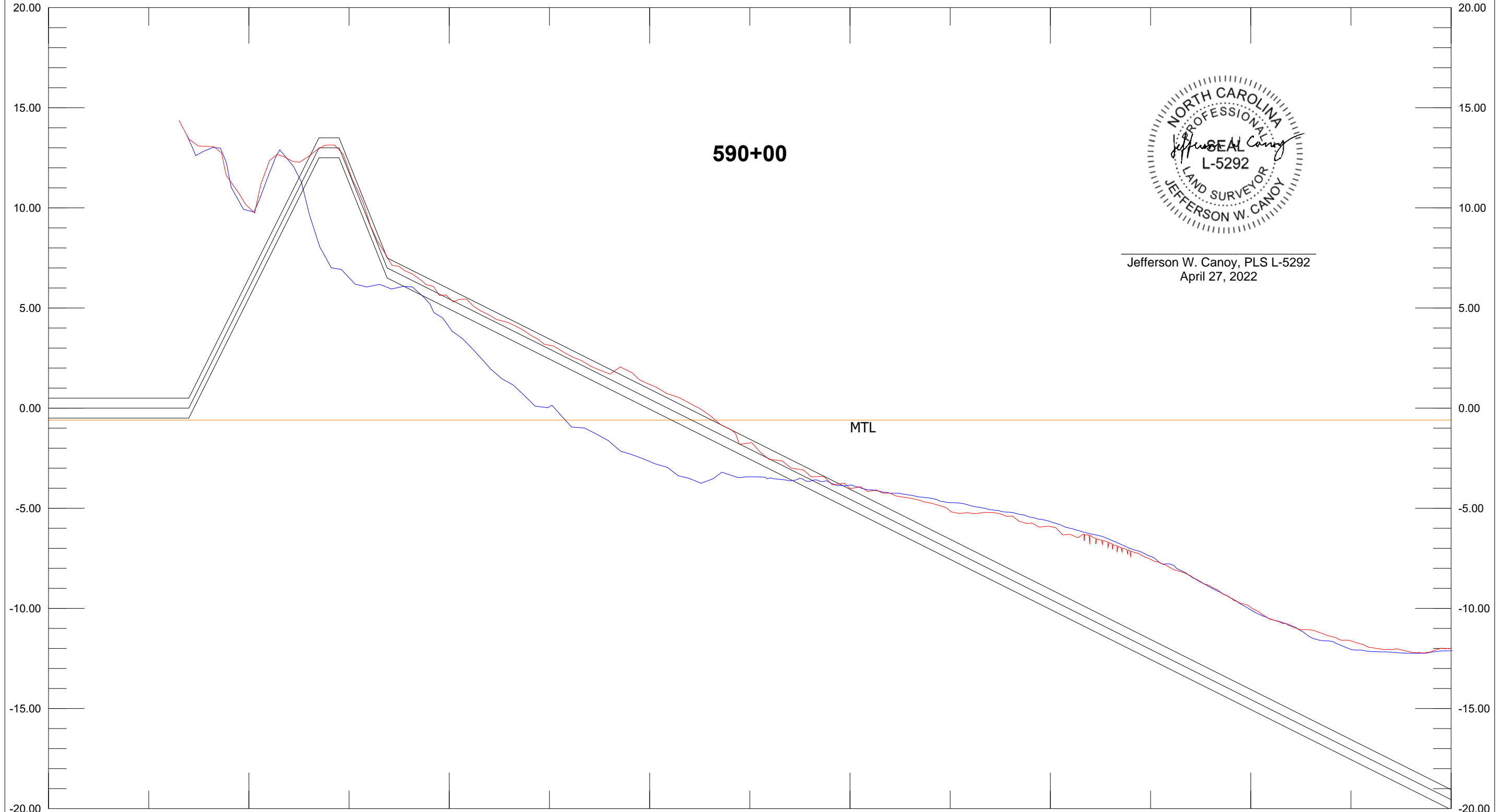
X: 2242974.82 589+00 Length: 1749.99 Azimuth: 179.35 X: 2242994.81
Y: 60911.85 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59161.97



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Base Survey AD Template DBL 50.00 Ft:In
589+00 589+00 Depth 5.00 Ft:In

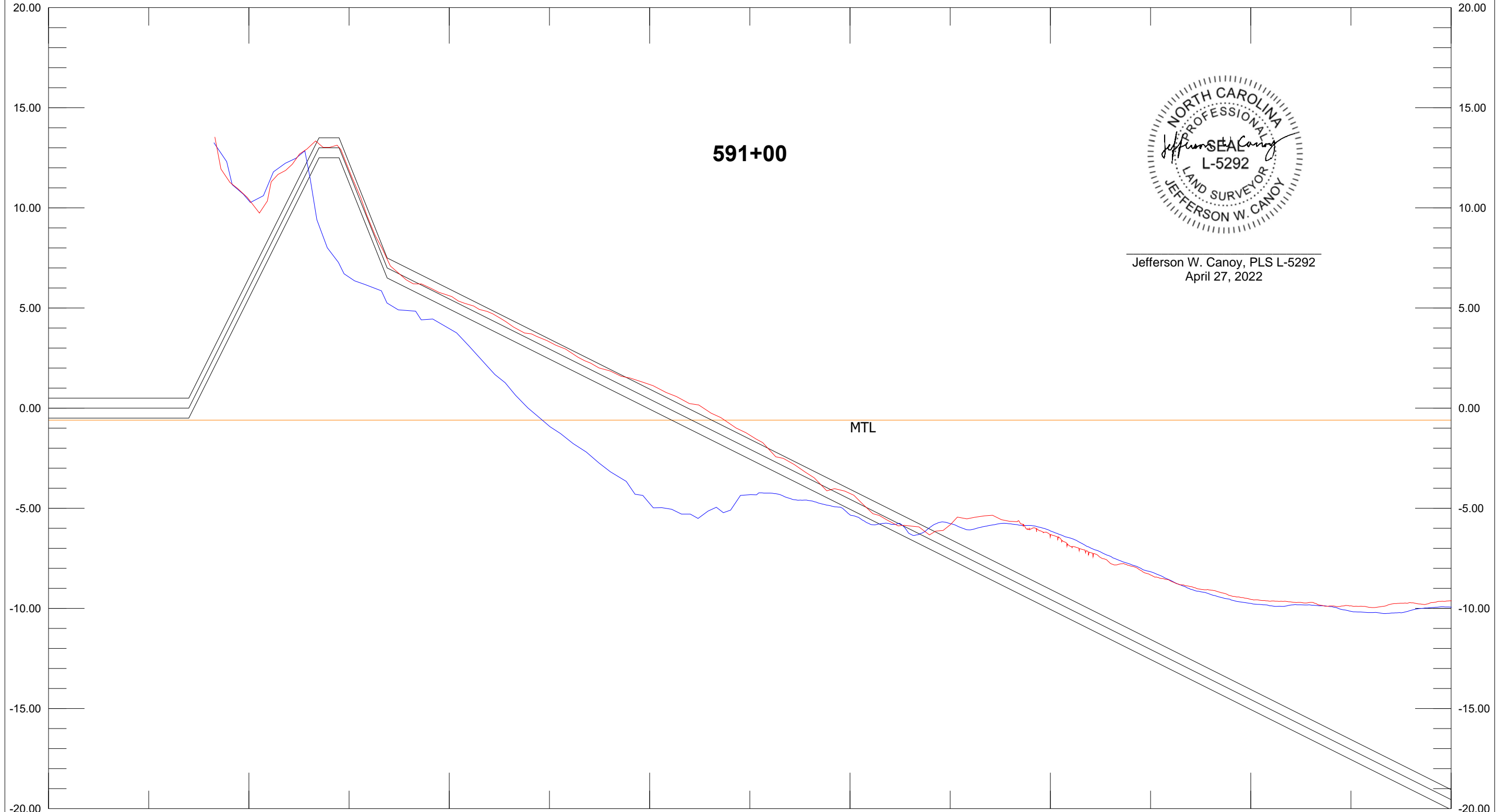
X: 2242874.82 590+00 Length: 1750.00 Azimuth: 179.35 X: 2242894.82
Y: 60910.71 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
590+00 590+00 Depth 5.00 Ft:In

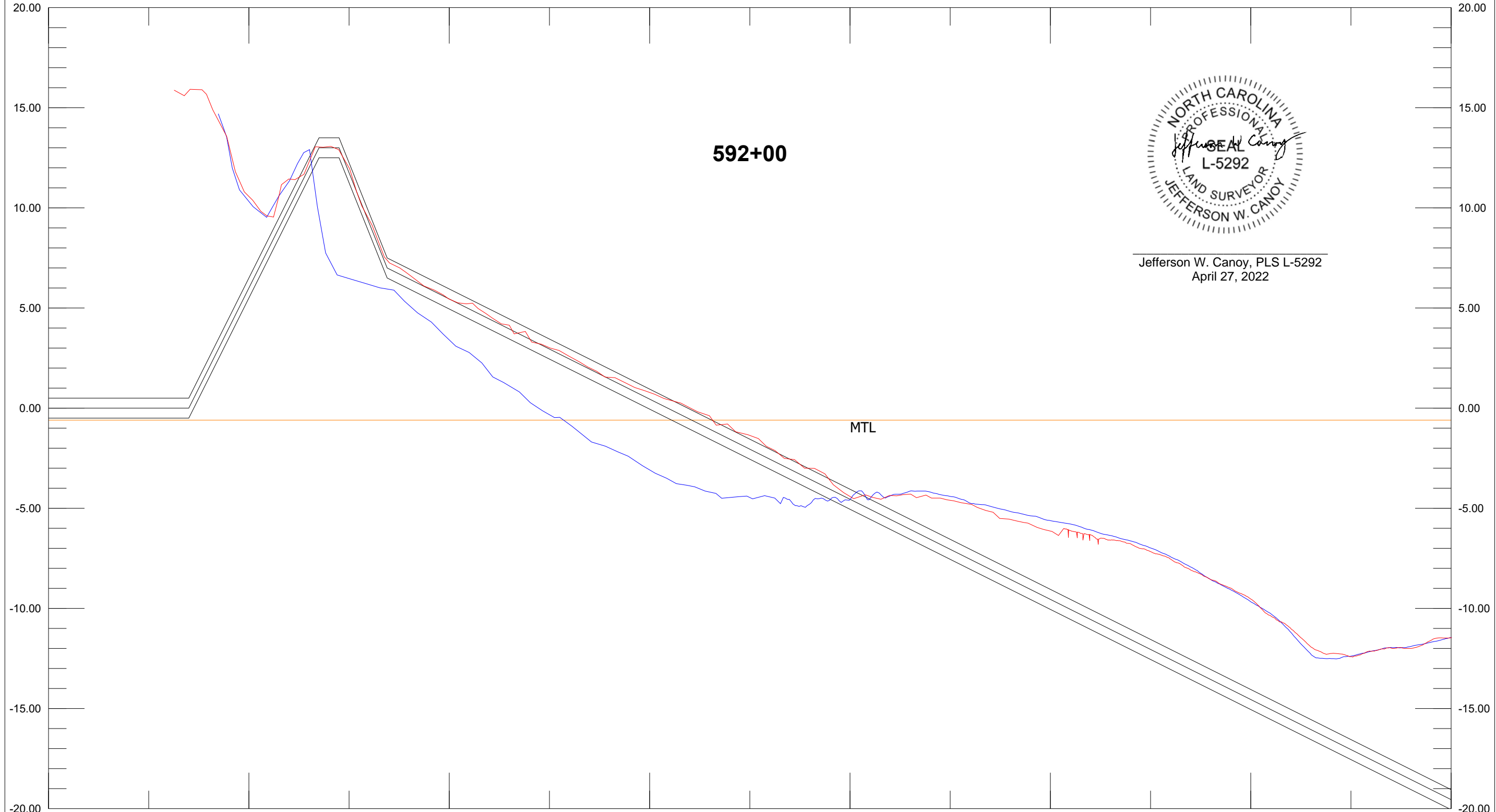
X: 2242774.83 591+00 Length: 1749.99 Azimuth: 179.35 X: 2242794.83
Y: 60909.56 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59159.68



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Base Survey AD Template DBL 50.00 Ft:In
591+00 591+00 Depth 5.00 Ft:In

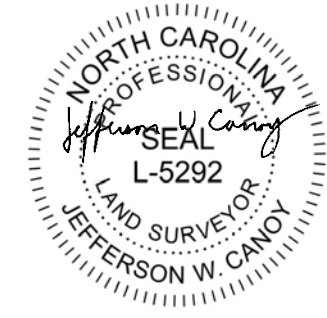
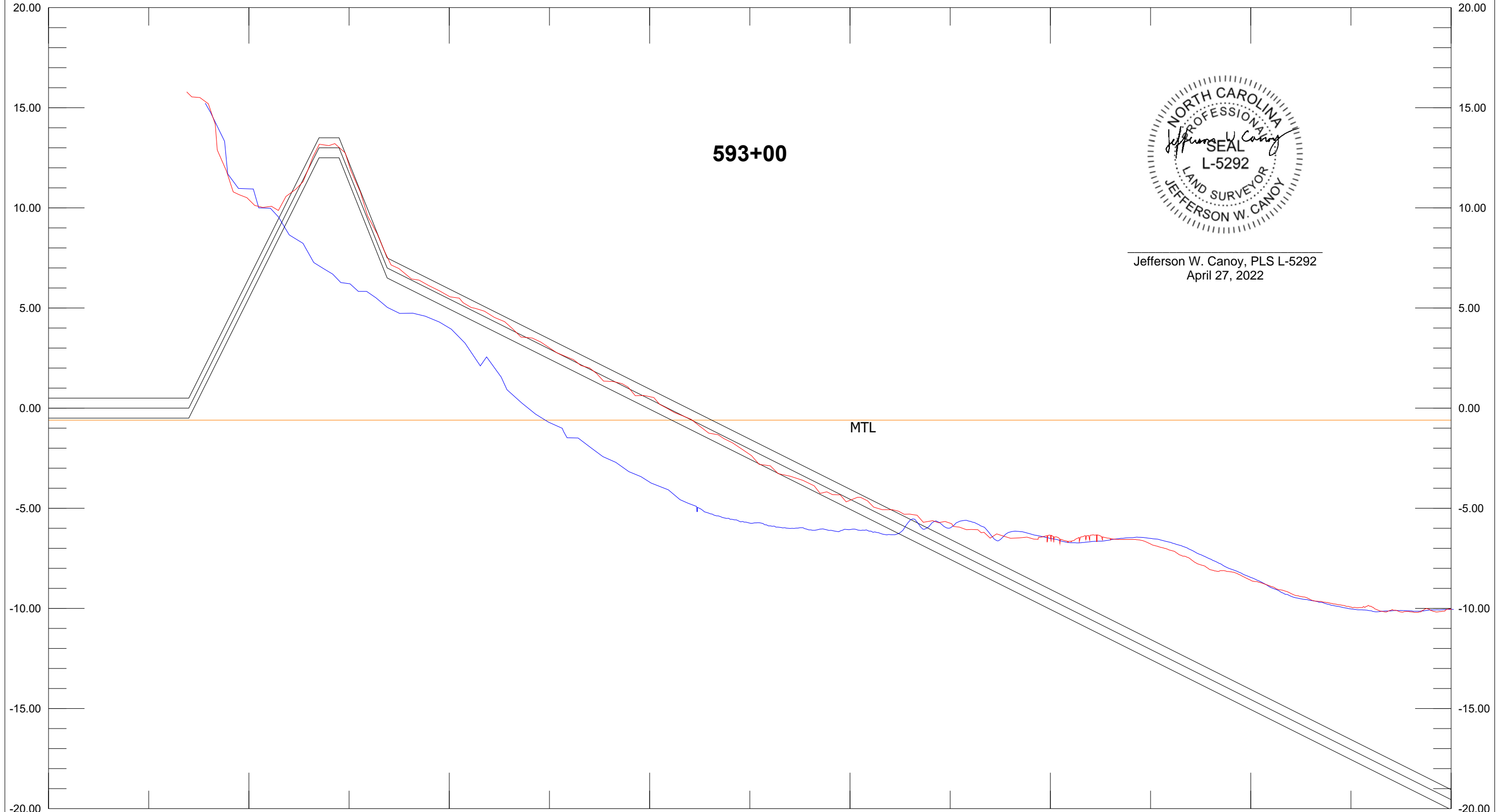
X: 2242674.84 592+00 Length: 1749.99 Azimuth: 179.35 X: 2242694.83
Y: 60908.42 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59158.54



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Base Survey AD Template DBL 50.00 Ft:In
592+00 592+00 Depth 5.00 Ft:In

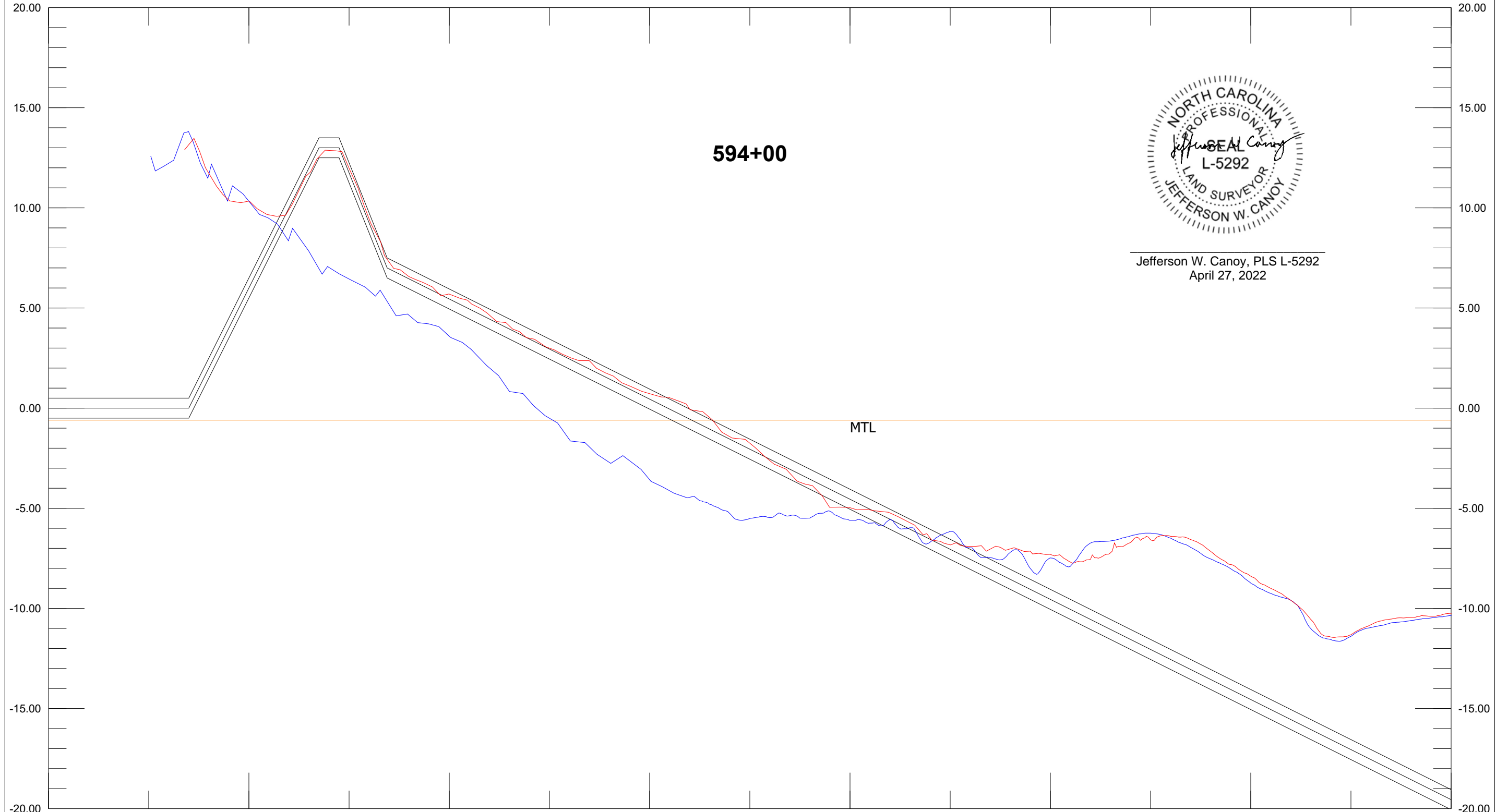
X: 2242574.84 593+00 Length: 1749.99 Azimuth: 179.35 X: 2242594.84
Y: 60907.28 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59157.40



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Base Survey AD Template DBL 50.00 Ft:In
593+00 593+00 Depth 5.00 Ft:In

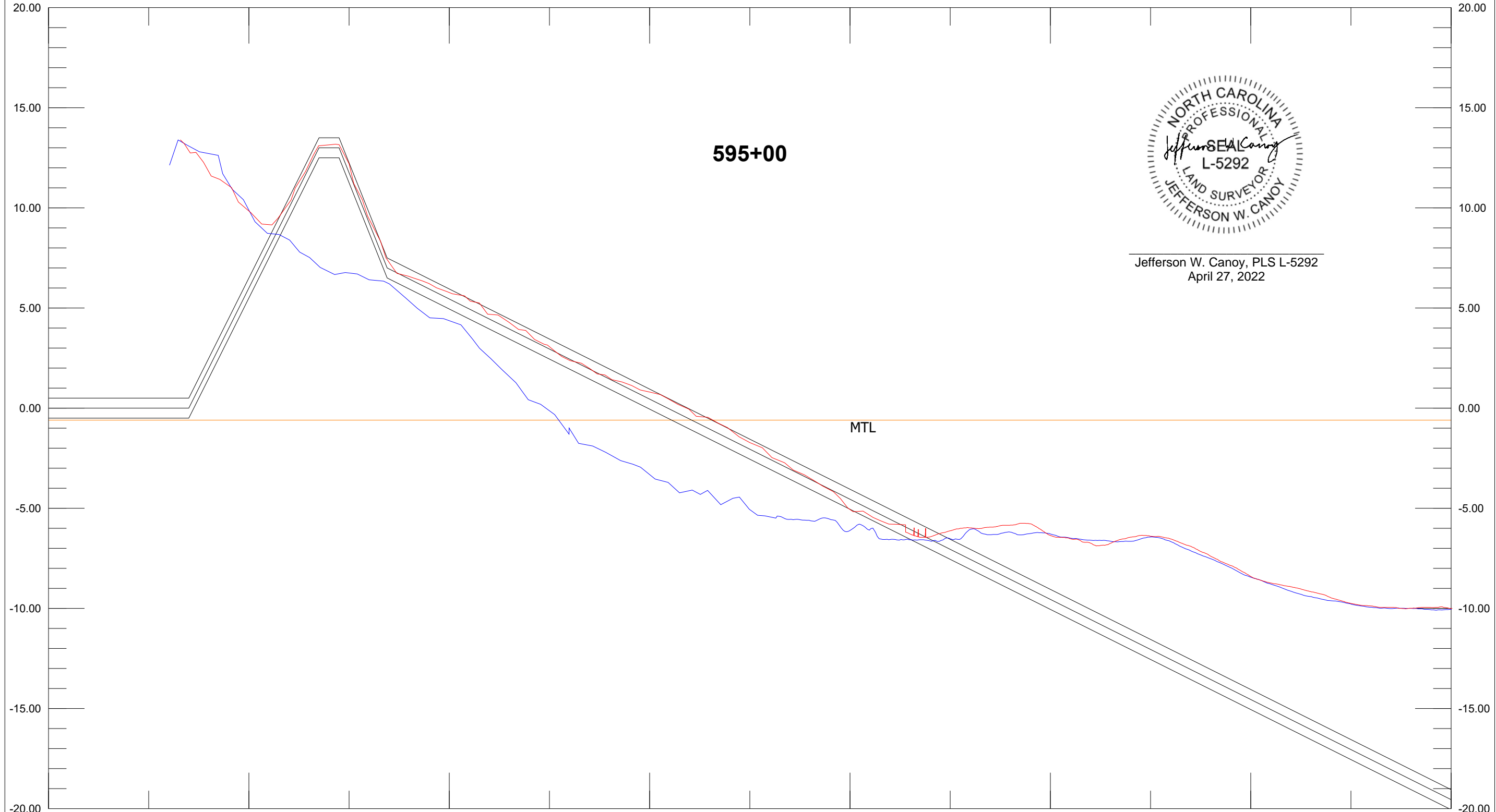
X: 2242474.86 594+00 Length: 1750.00 Azimuth: 179.35 X: 2242494.84
Y: 60906.14 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59156.25



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Base Survey AD Template DBL 50.00 Ft:In
594+00 594+00 Depth 5.00 Ft:In

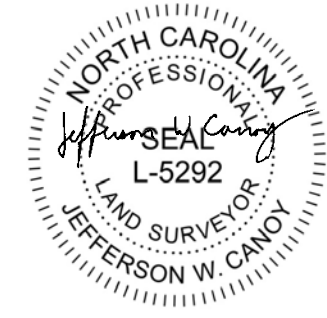
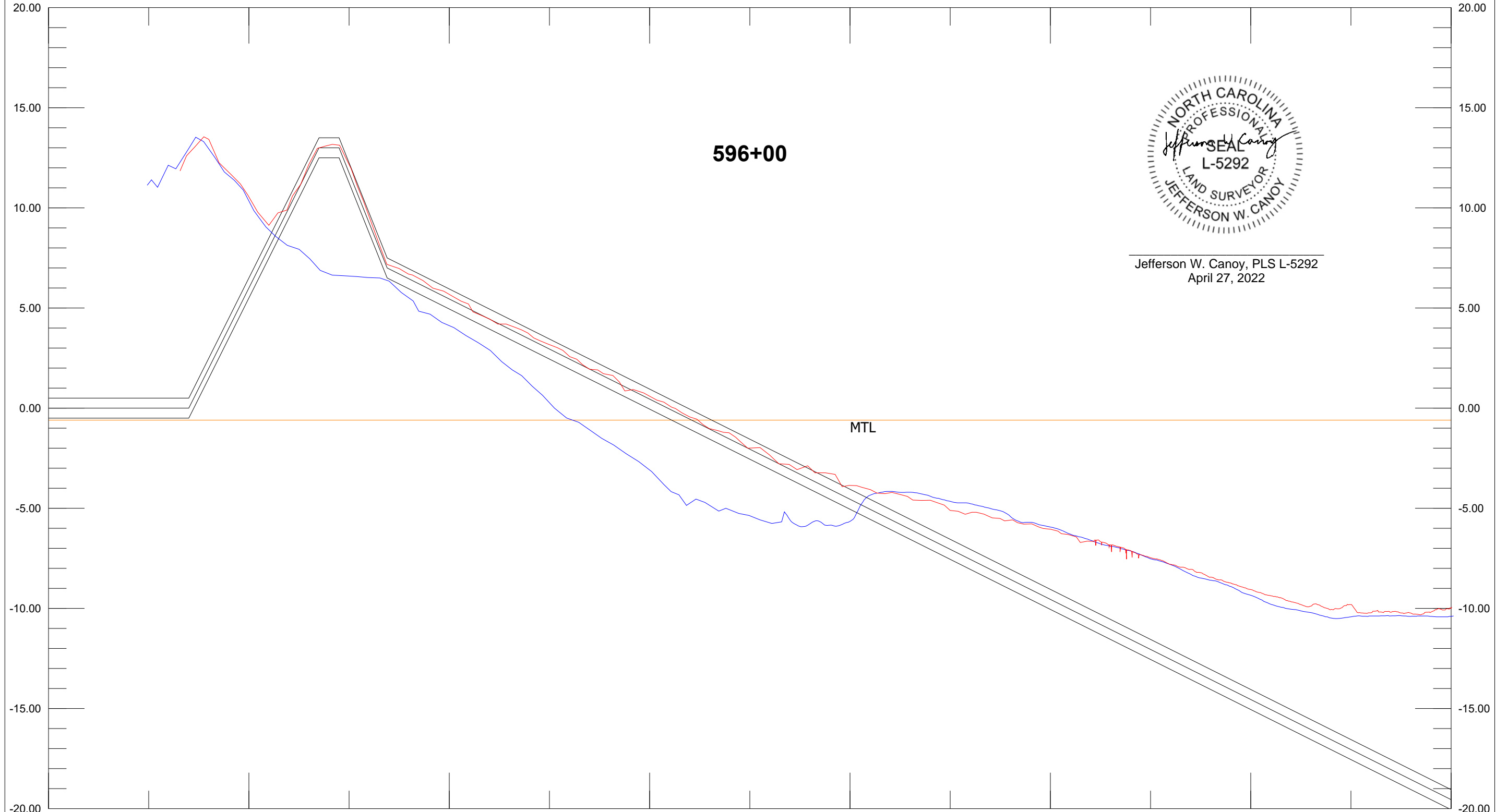
X: 2242374.86 595+00 Length: 1749.99 Azimuth: 179.35 X: 2242394.85
Y: 60904.99 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
595+00 595+00

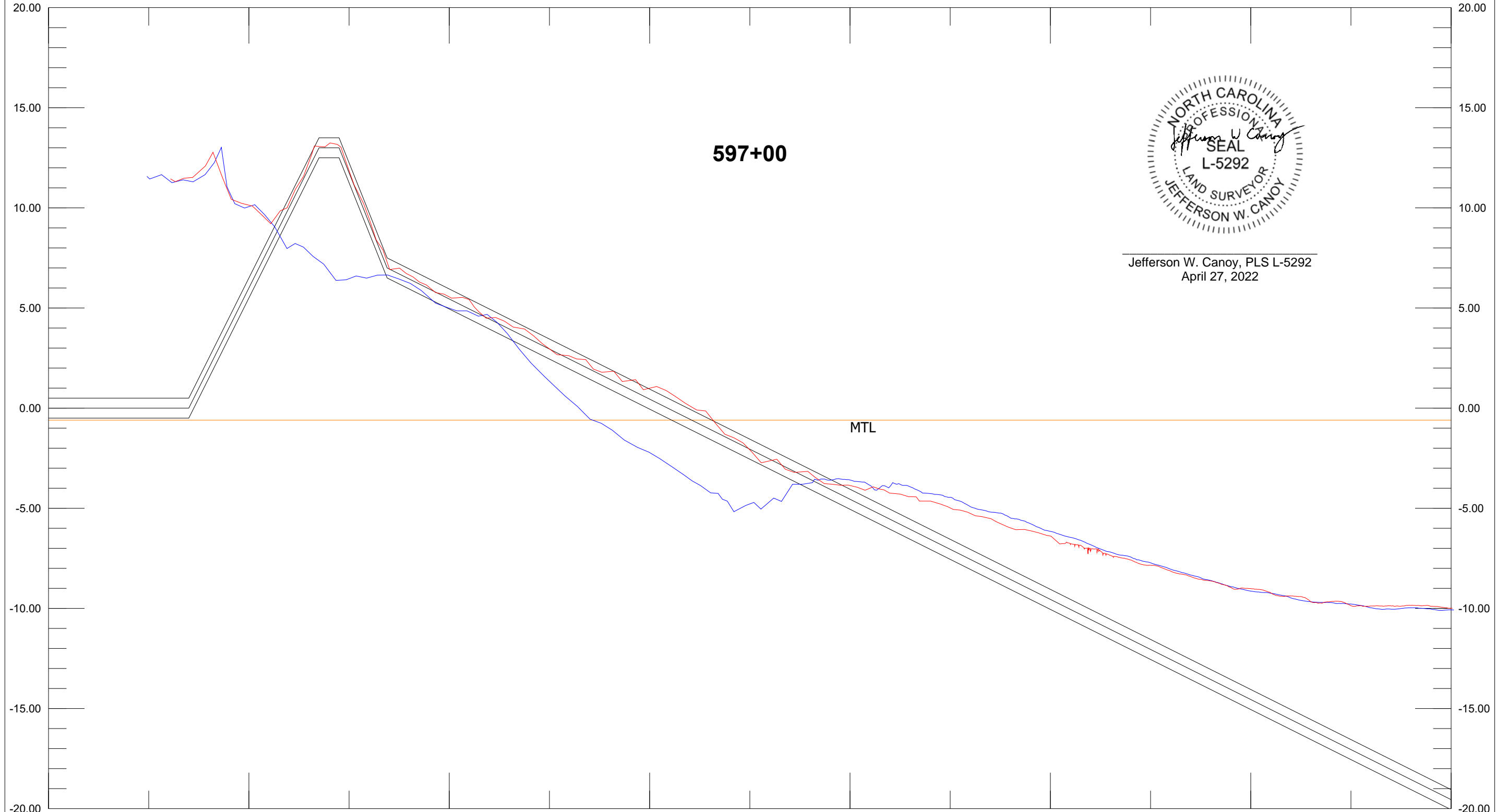
X: 2242274.86 596+00 Length: 1749.99 Azimuth: 179.35 X: 2242294.86
Y: 60903.85 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59153.97



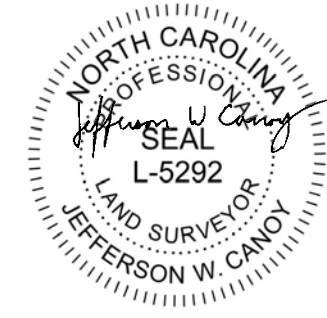
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Base Survey AD Template DBL 50.00 Ft:In
596+00 596+00 Depth 5.00 Ft:In

X: 2242174.87 597+00 Length: 1749.99 Azimuth: 179.35 X: 2242194.86
Y: 60902.71 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59152.83



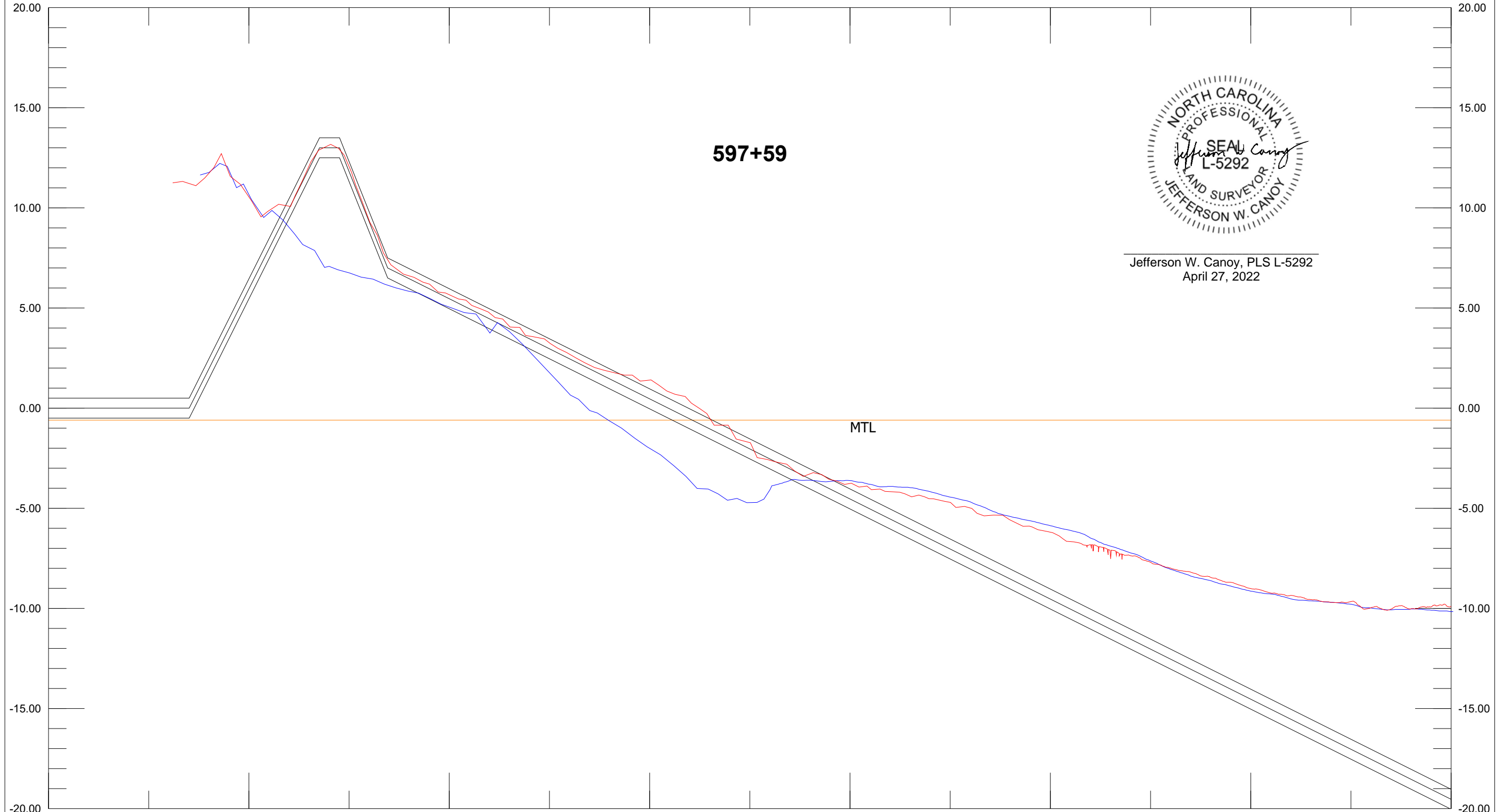
597+00



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Base Survey AD Template DBL 50.00 Ft:In
597+00 597+00 Depth 5.00 Ft:In

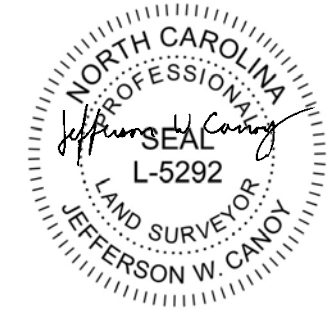
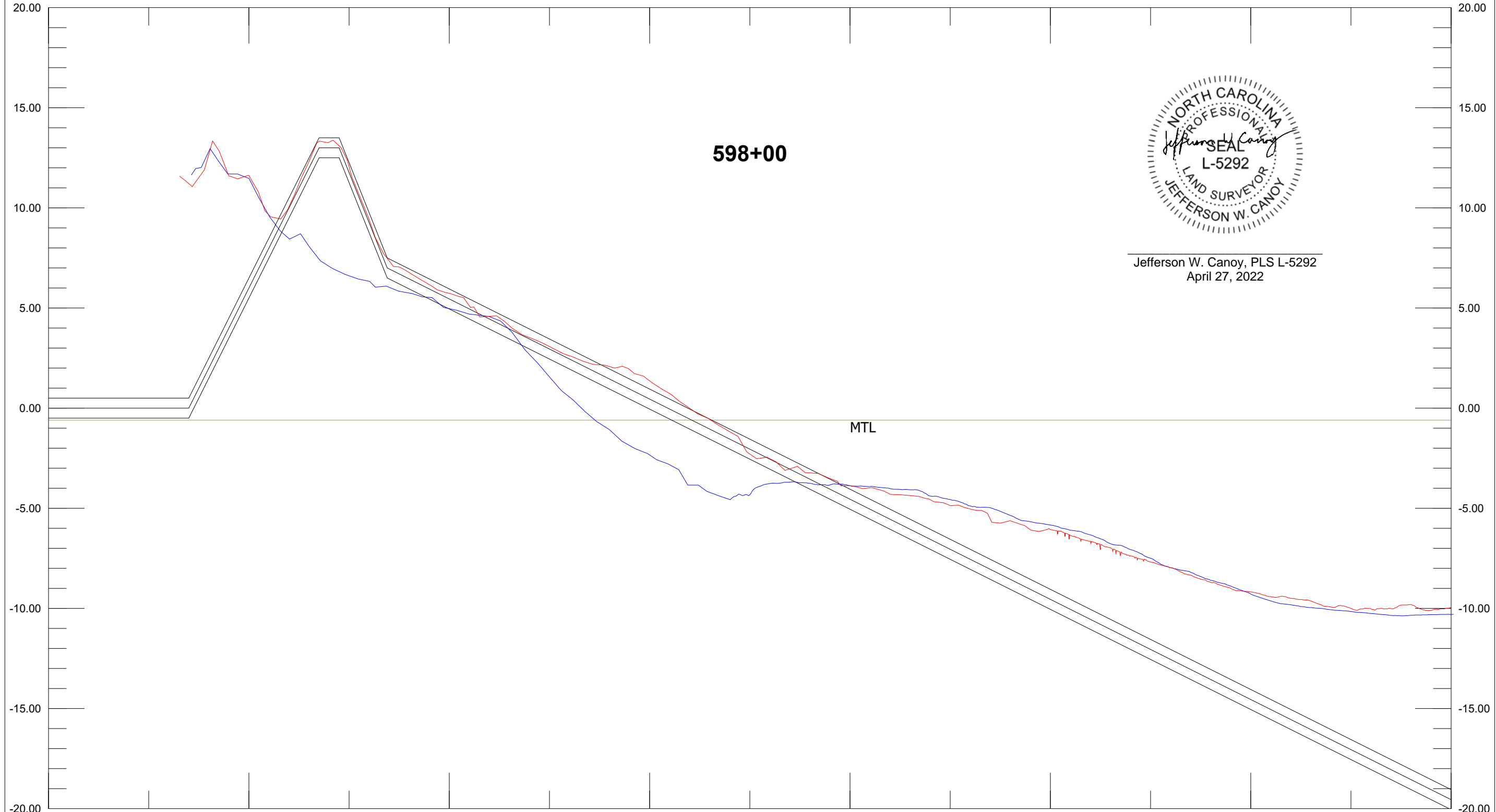
X: 2242111.01 597+59 Length: 1749.99 Azimuth: 177.93 X: 2242174.22
Y: 60902.15 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59153.30



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Base Survey AD Template DBL 50.00 Ft:In
597+59 597+59 Depth 5.00 Ft:In

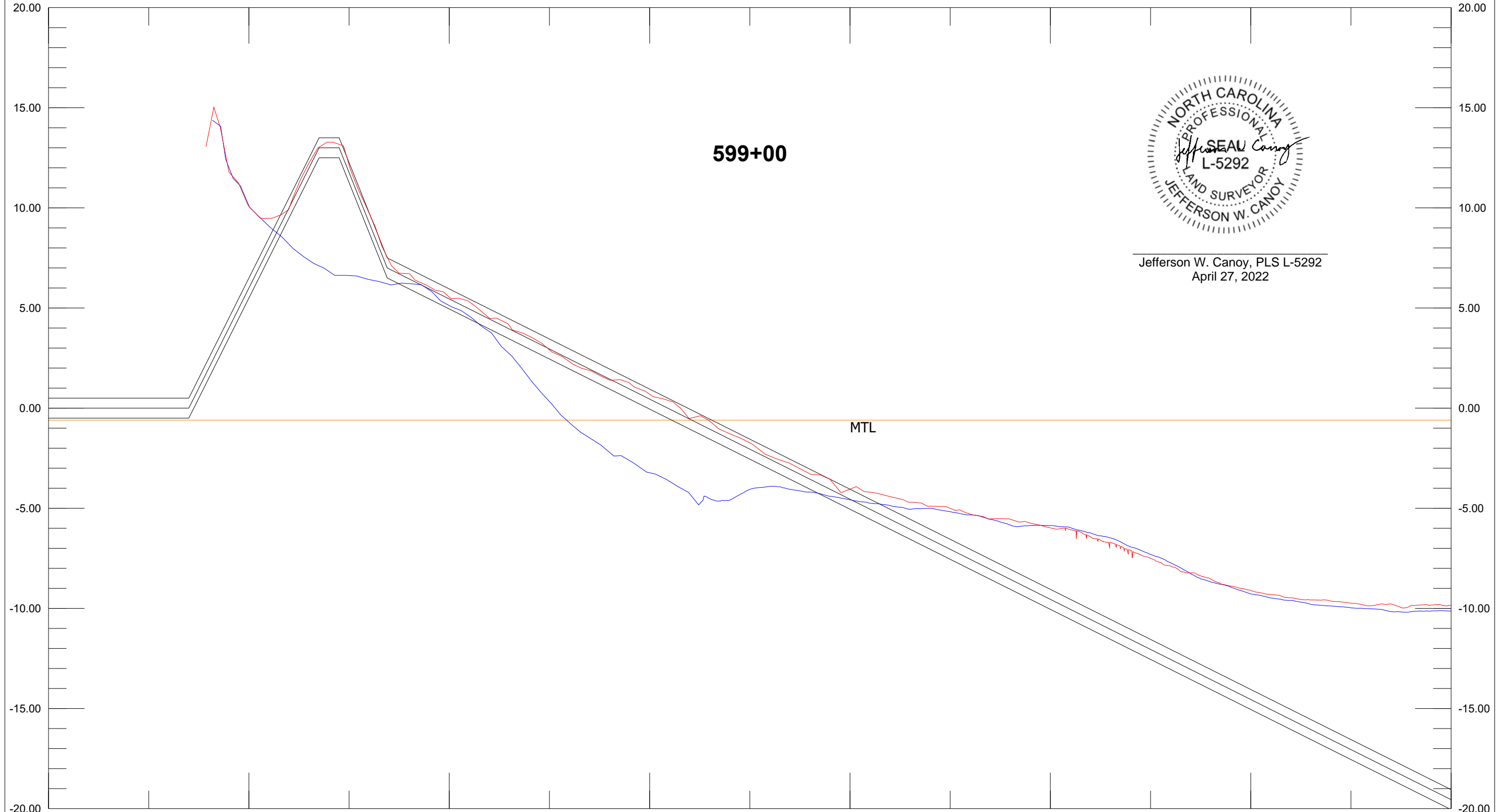
X: 2242063.63 598+00 Length: 1750.00 Azimuth: 176.75 X: 2242162.81
Y: 60899.31 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59152.12



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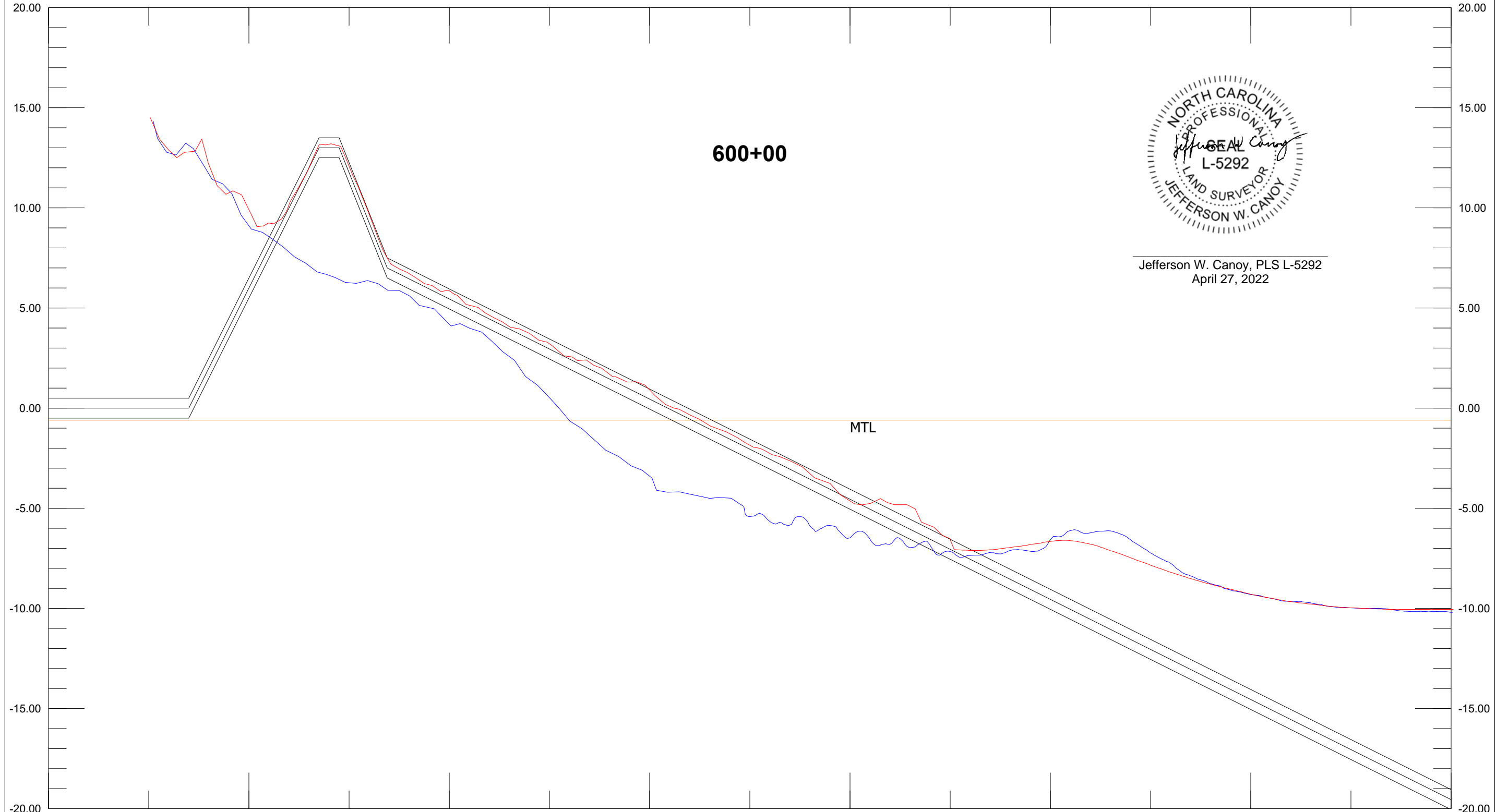
Base Survey AD Template DBL 50.00 Ft:In
598+00 598+00 Depth 5.00 Ft:In

X: 2241963.79 599+00 Length: 1750.00 Azimuth: 176.75 X: 2242062.97
Y: 60893.65 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59146.46



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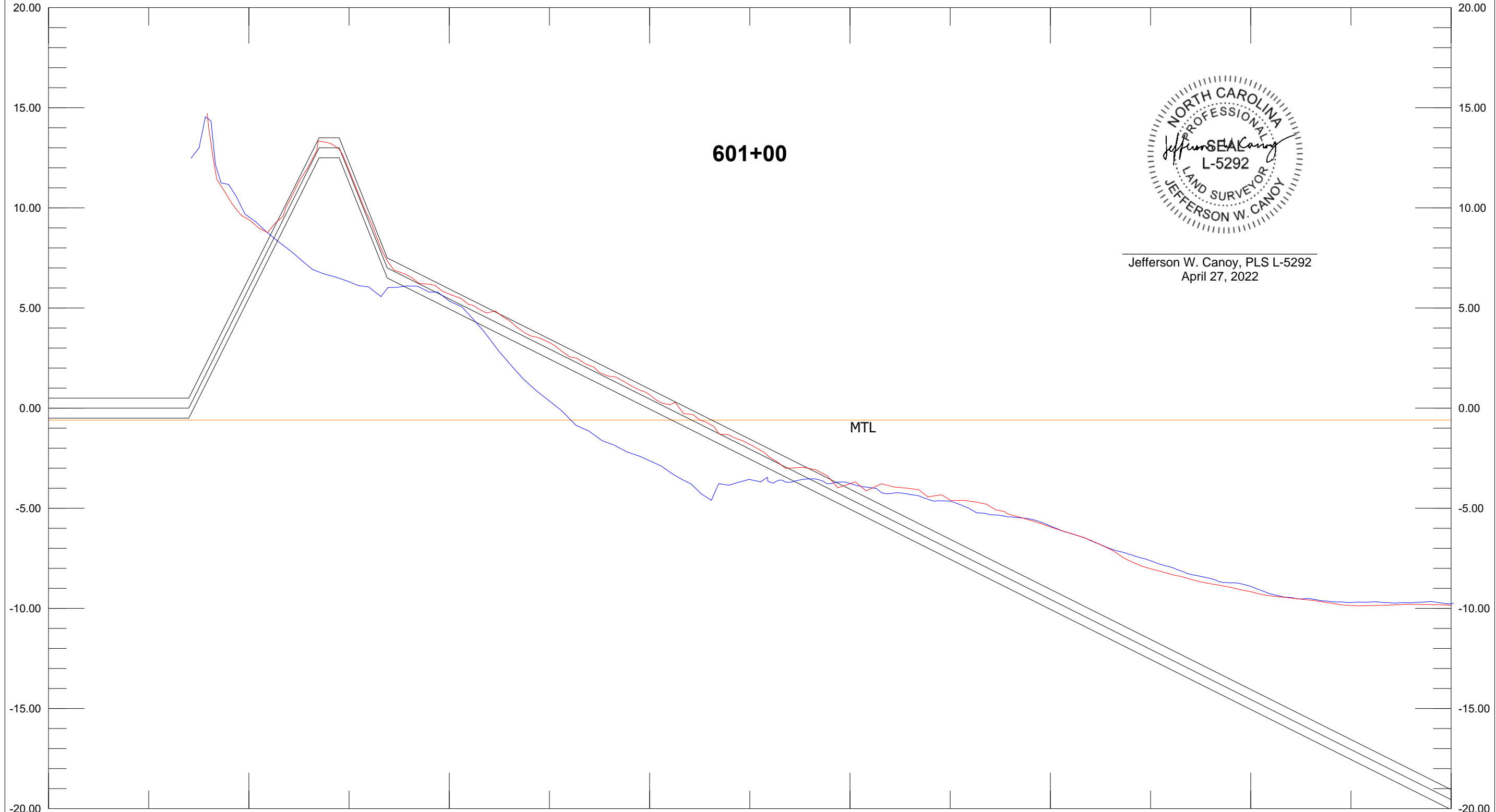
X: 2241863.95 600+00 Length: 1750.00 Azimuth: 176.75 X: 2241963.13
Y: 60887.98 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
600+00 600+00 Depth 5.00 Ft:In

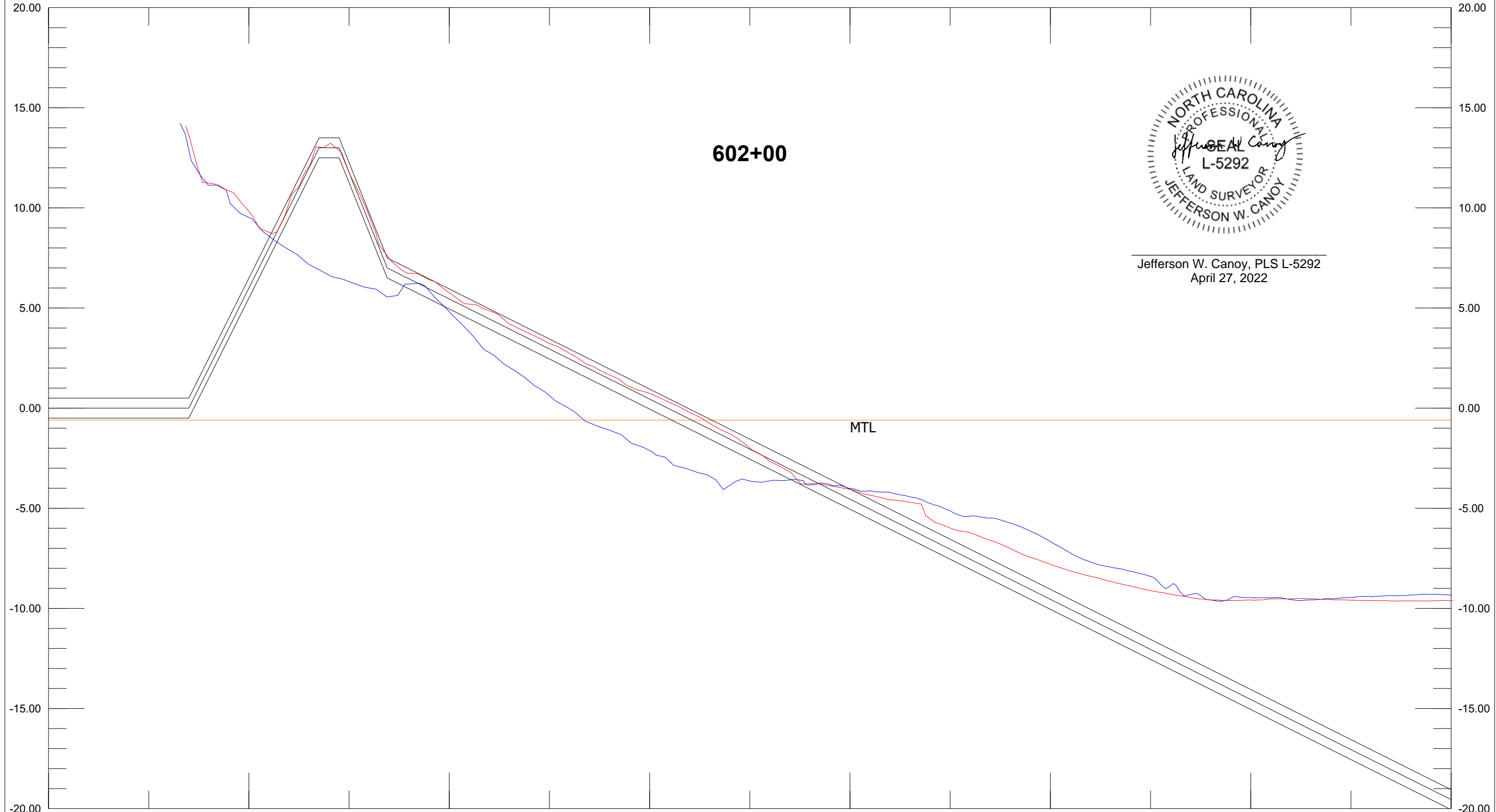
X: 2241764.11 601+00 Length: 1750.00 Azimuth: 176.75 X: 2241863.29
Y: 60882.31 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59135.12



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Base Survey AD Template DBL 50.00 Ft:In
601+00 601+00 Depth 5.00 Ft:In

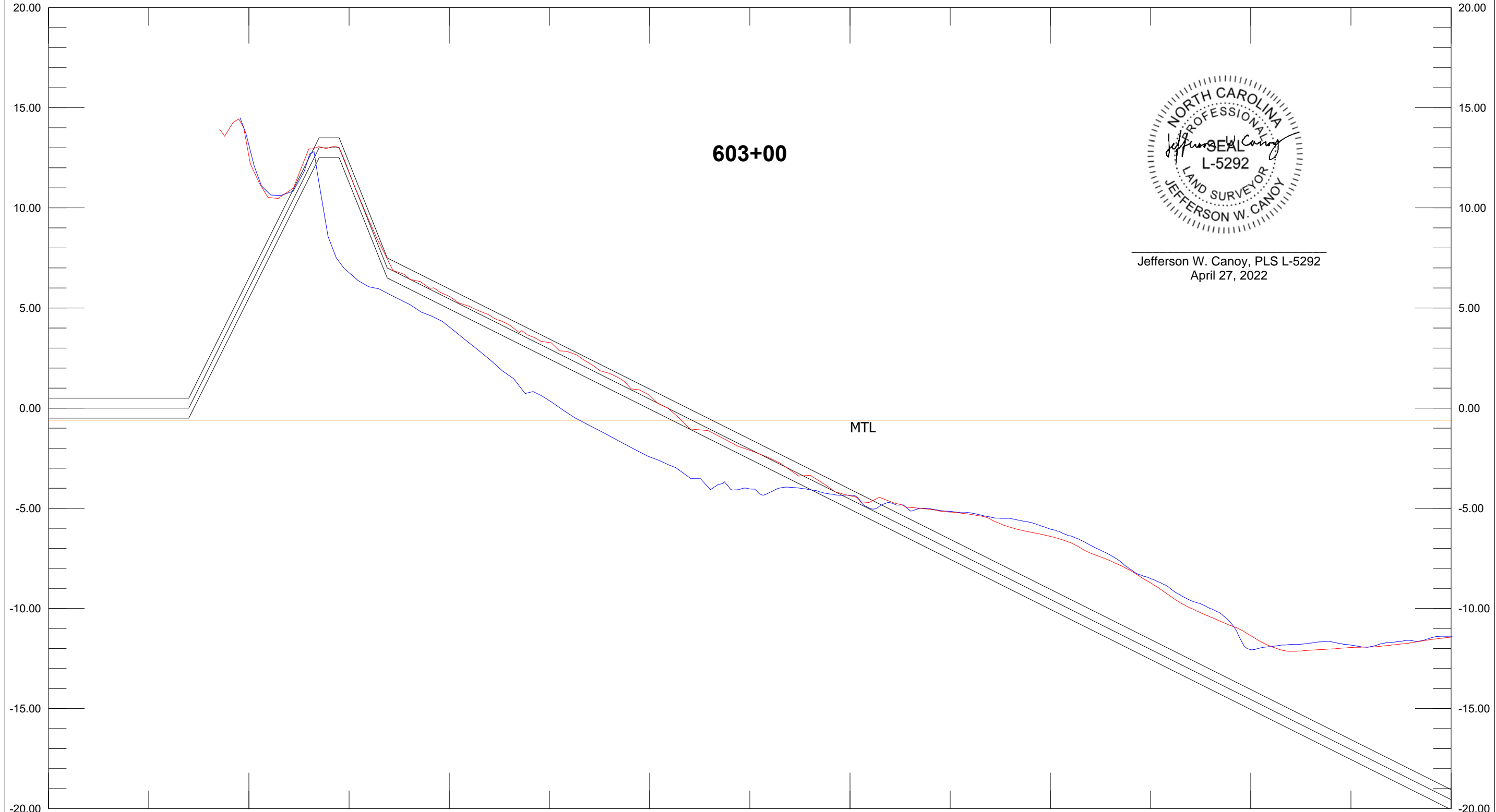
X: 2241664.27 602+00 Length: 1750.00 Azimuth: 176.75 X: 2241763.45
Y: 60876.64 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59129.45



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Base Survey AD Template DBL 50.00 Ft:In
602+00 602+00

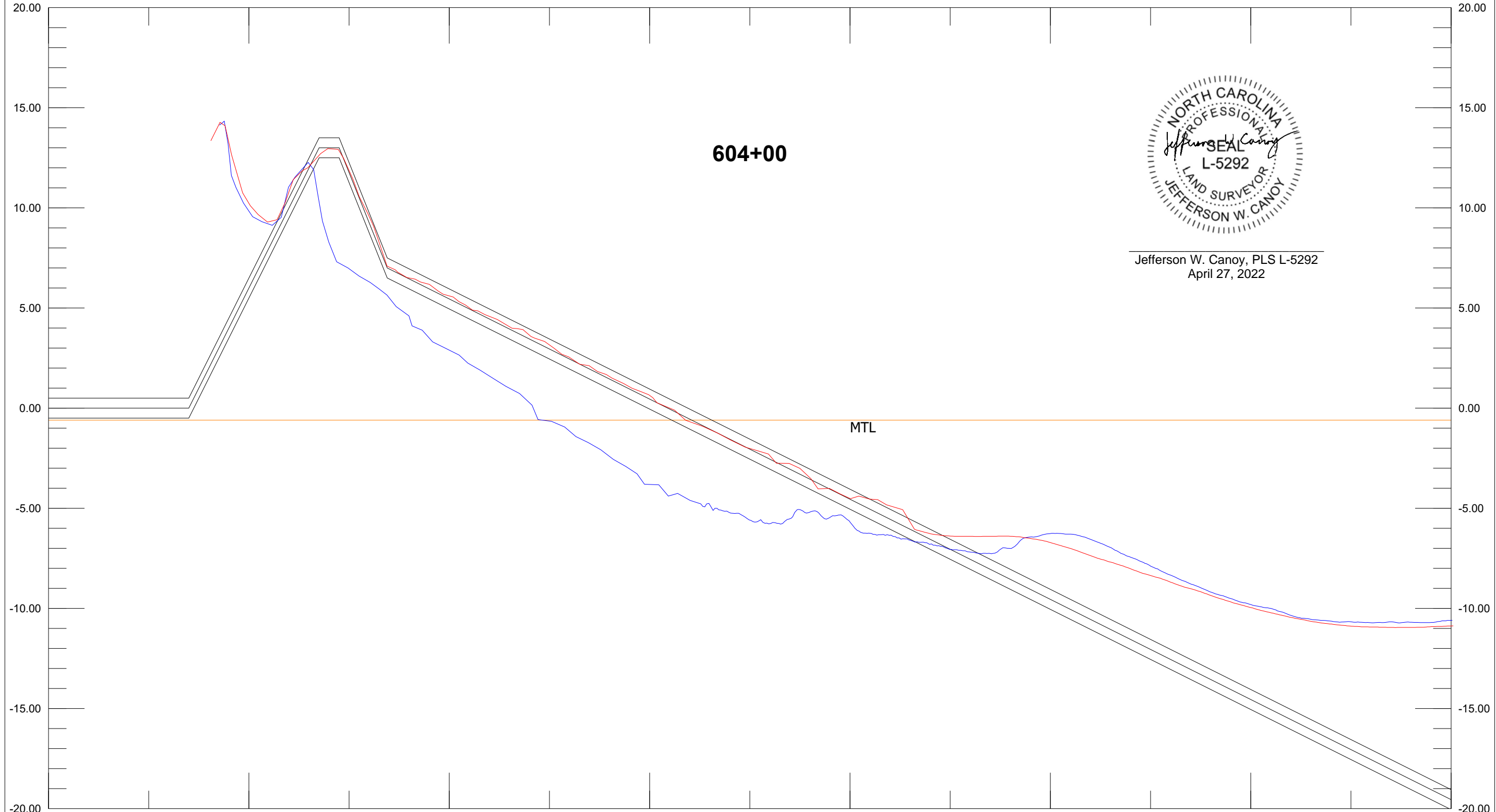
X: 2241564.43 603+00 Length: 1750.00 Azimuth: 176.75 X: 2241663.61
Y: 60870.98 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59123.79



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Base Survey AD Template DBL 50.00 Ft:In
603+00 603+00 Depth 5.00 Ft:In

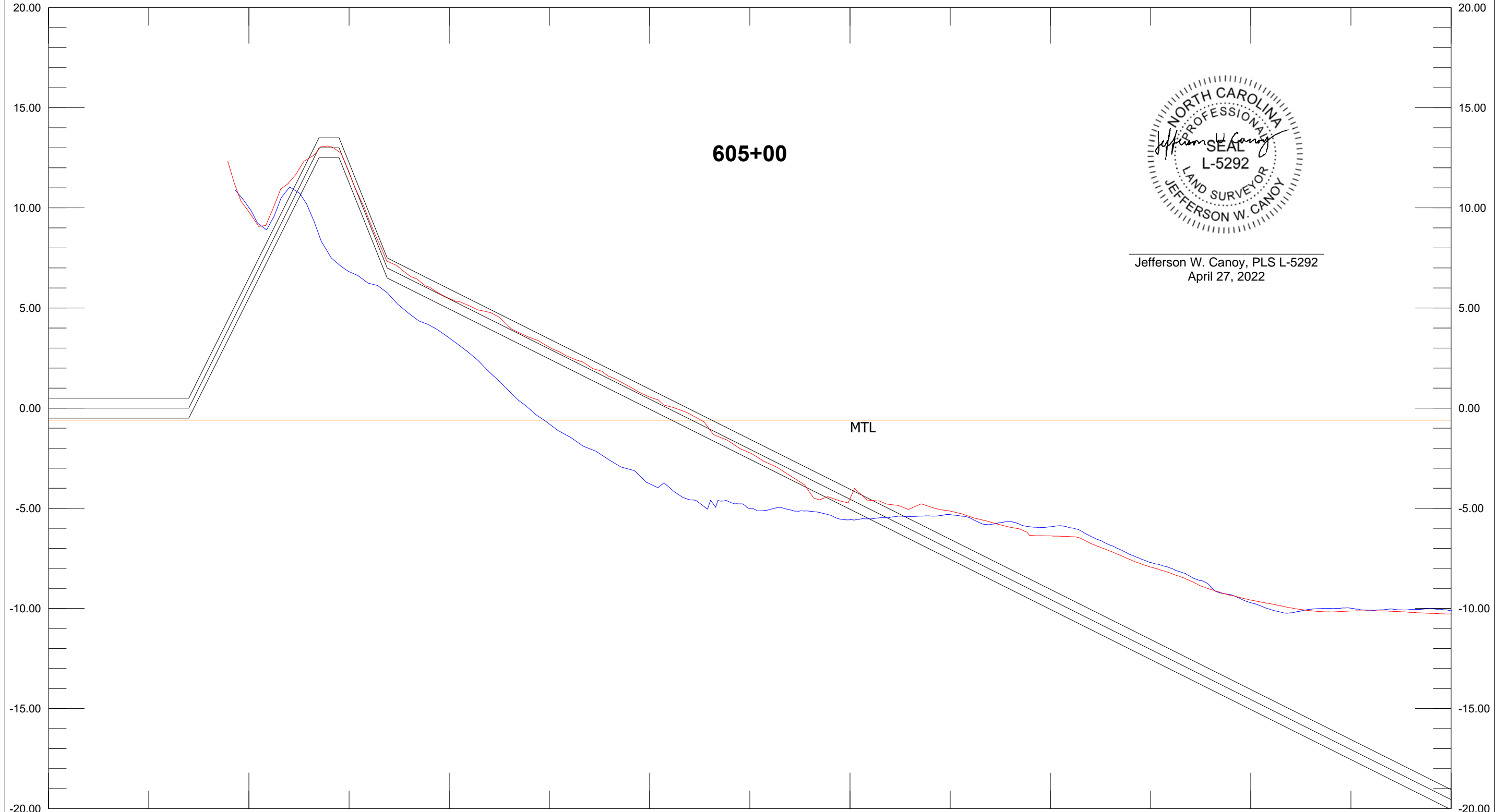
X: 2241464.59 604+00 Length: 1750.00 Azimuth: 176.75 X: 2241563.78
Y: 60865.31 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59118.12



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Base Survey AD Template DBL 50.00 Ft:In
604+00 604+00 Depth 5.00 Ft:In

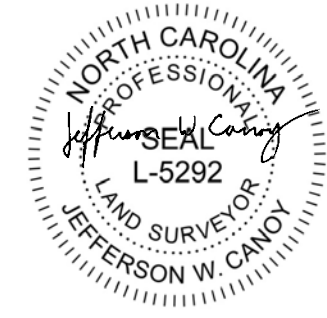
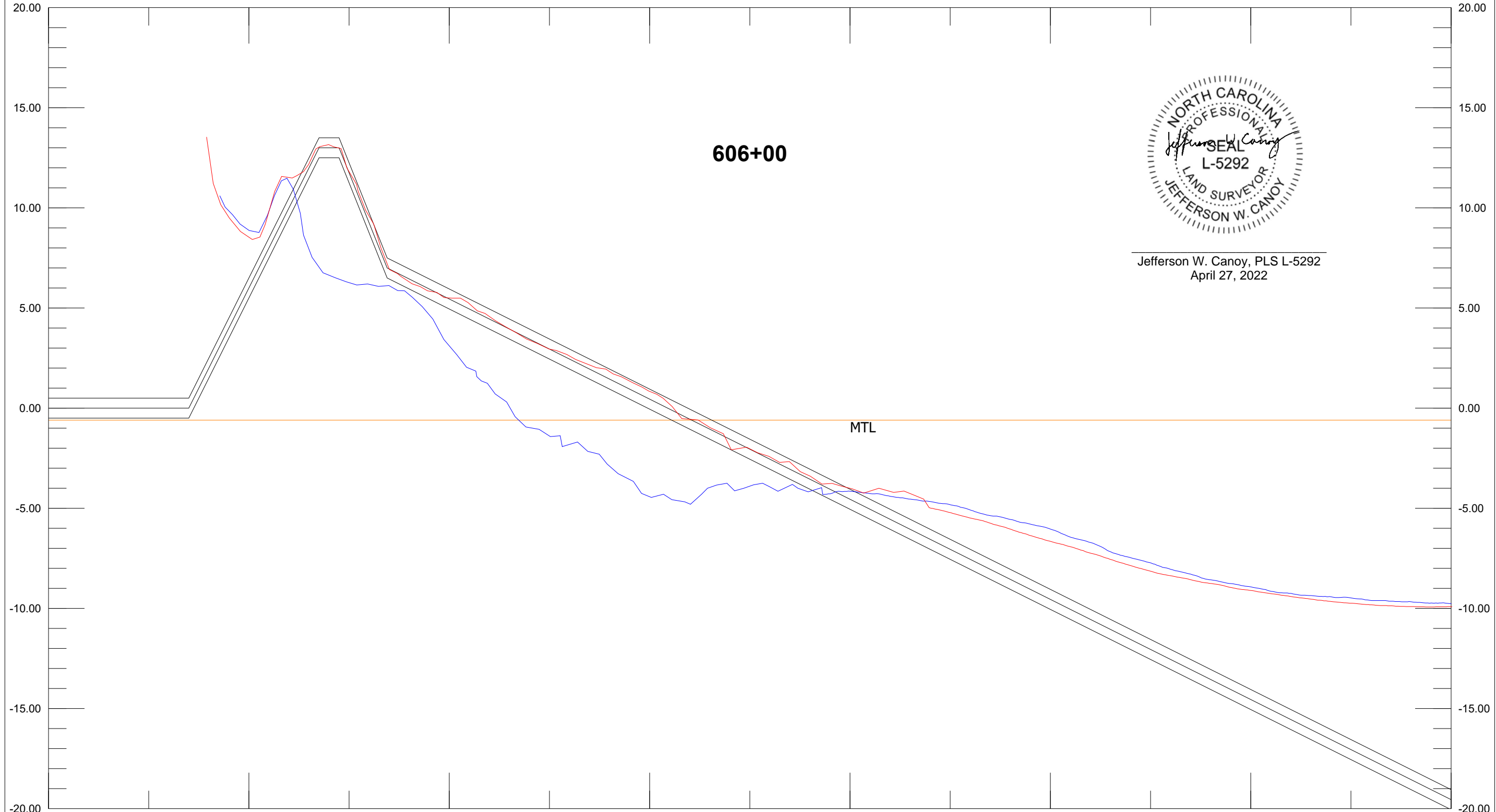
X: 2241364.76 605+00 Length: 1750.00 Azimuth: 176.75 X: 2241463.94
Y: 60859.64 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
605+00 605+00 Depth 5.00 Ft:In

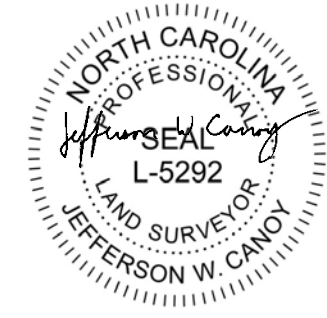
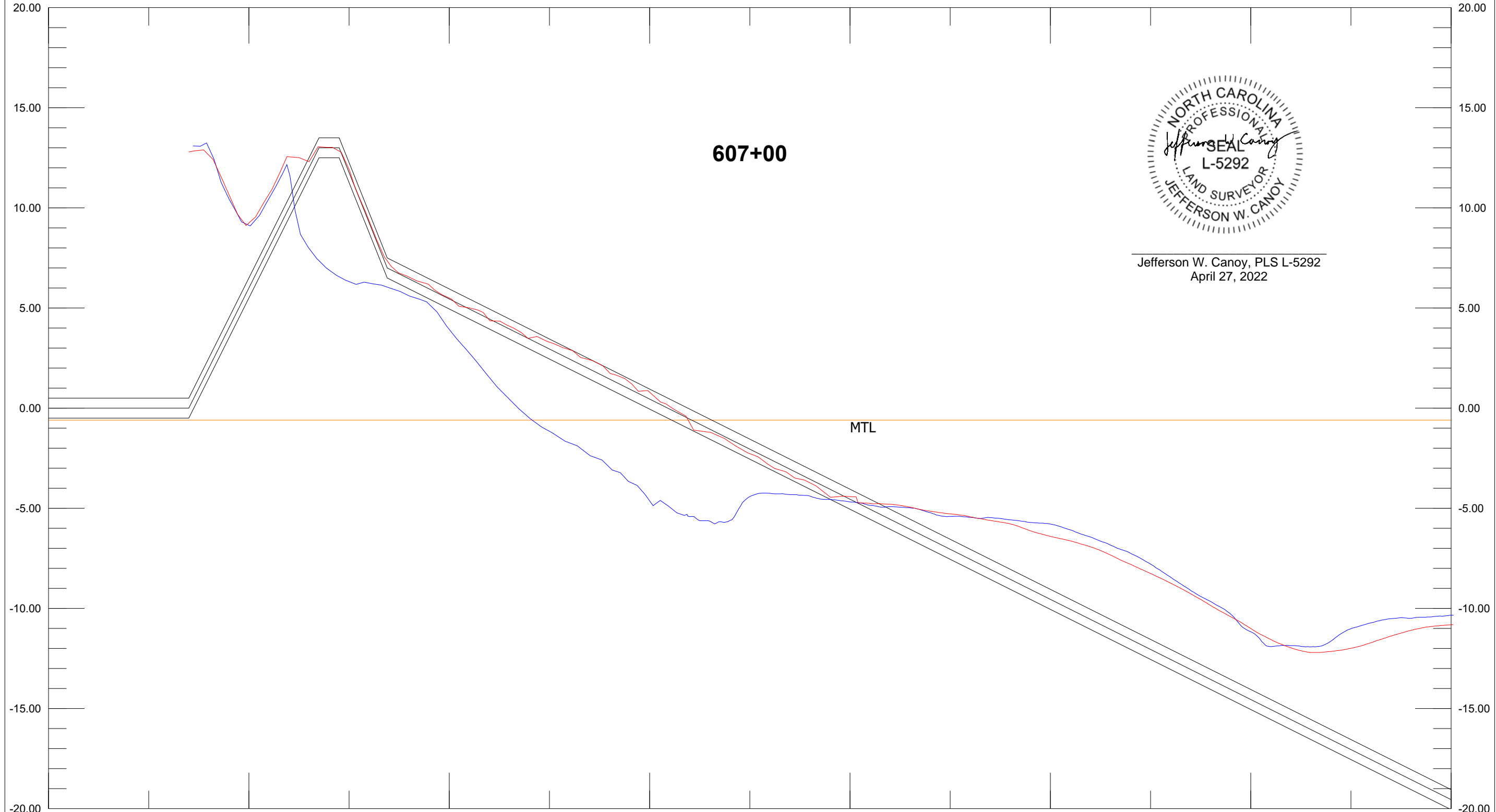
X: 2241264.92 606+00 Length: 1749.99 Azimuth: 176.75 X: 2241364.10
Y: 60853.97 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59106.79



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Base Survey AD Template DBL 50.00 Ft:In
606+00 606+00

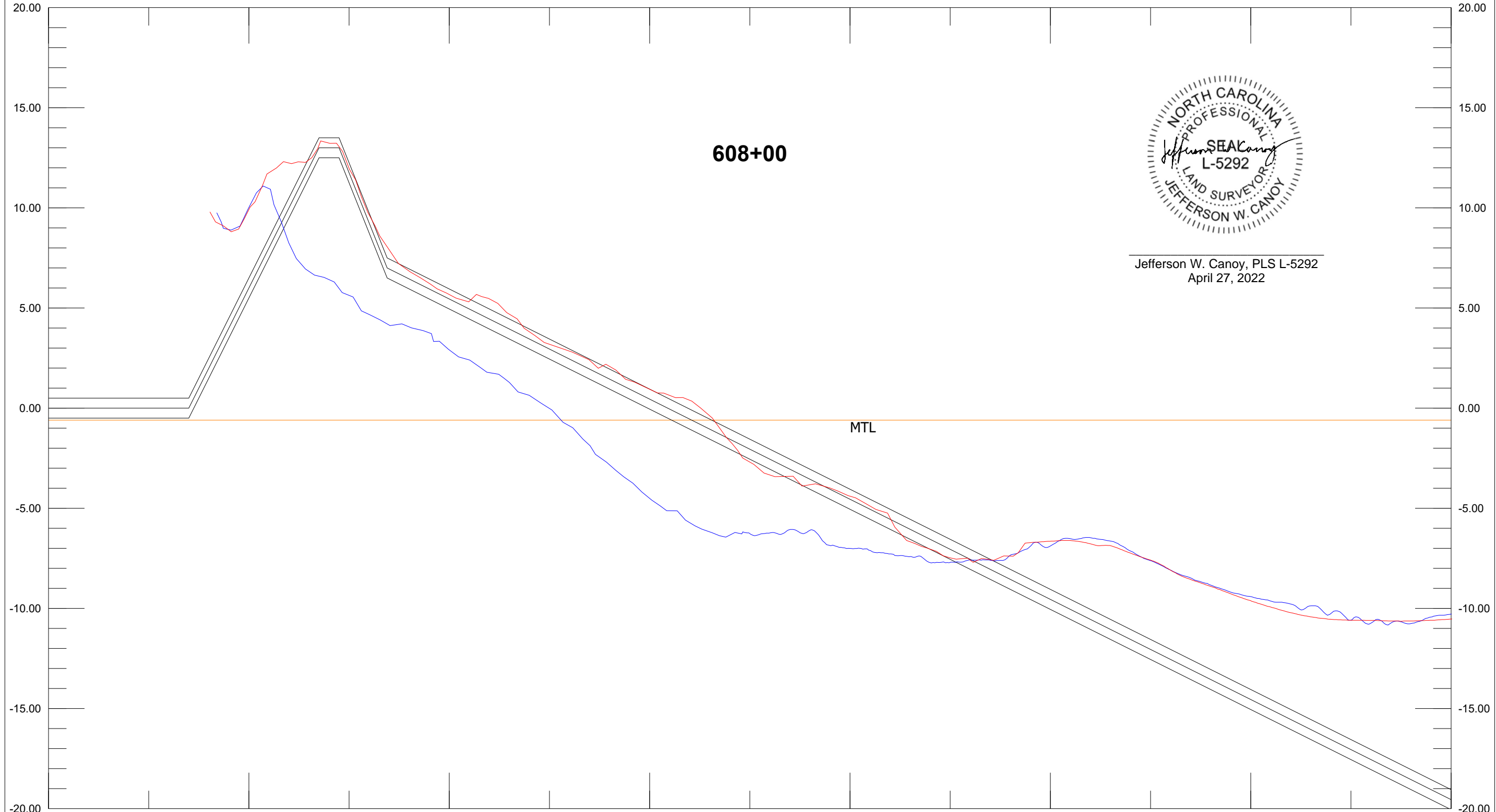
X: 2241165.08 607+00 Length: 1750.00 Azimuth: 176.75 X: 2241264.26
Y: 60848.31 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59101.12



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Base Survey AD Template DBL 50.00 Ft:In
607+00 607+00 Depth 5.00 Ft:In

X: 2241065.24 608+00 Length: 1750.00 Azimuth: 176.75 X: 2241164.42
Y: 60842.64 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



608+00



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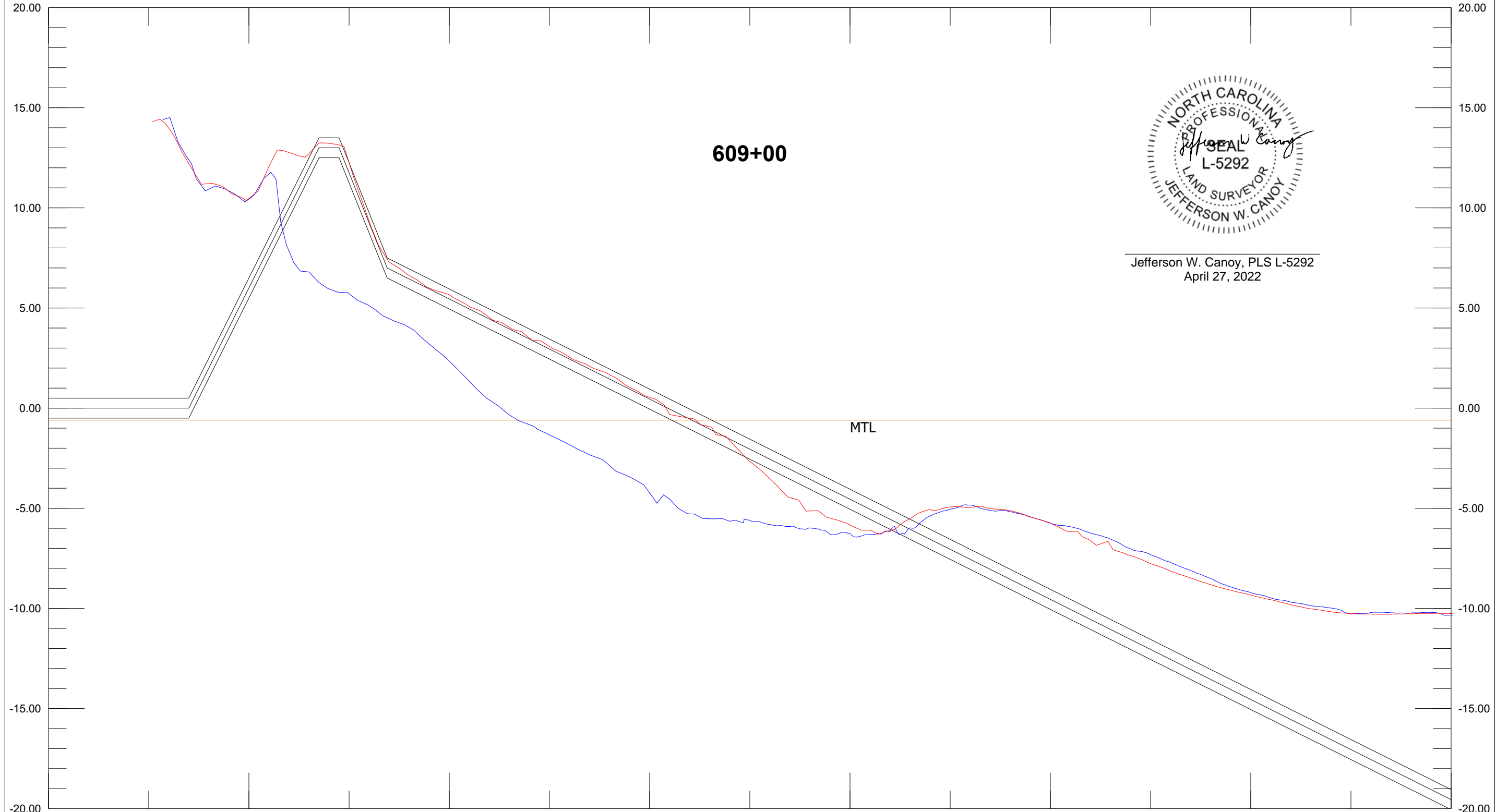
Base Survey
608+00

AD
608+00

Template

DBL 50.00 Ft:In
Depth 5.00 Ft:In

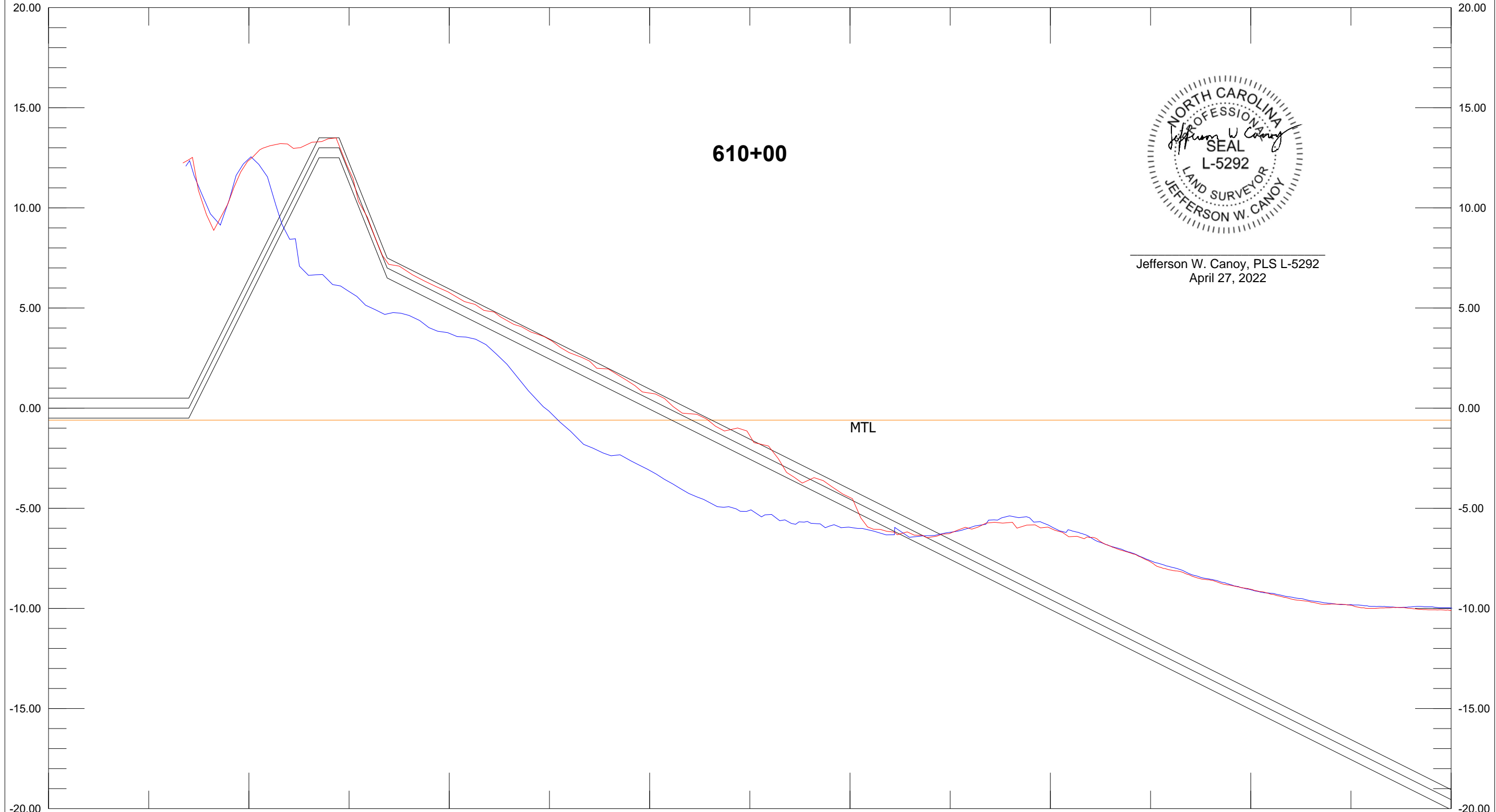
X: 2240965.40 609+00 Length: 1750.00 Azimuth: 176.75 X: 2241064.58
Y: 60836.97 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59089.78



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Base Survey AD Template DBL 50.00 Ft:In
609+00 609+00

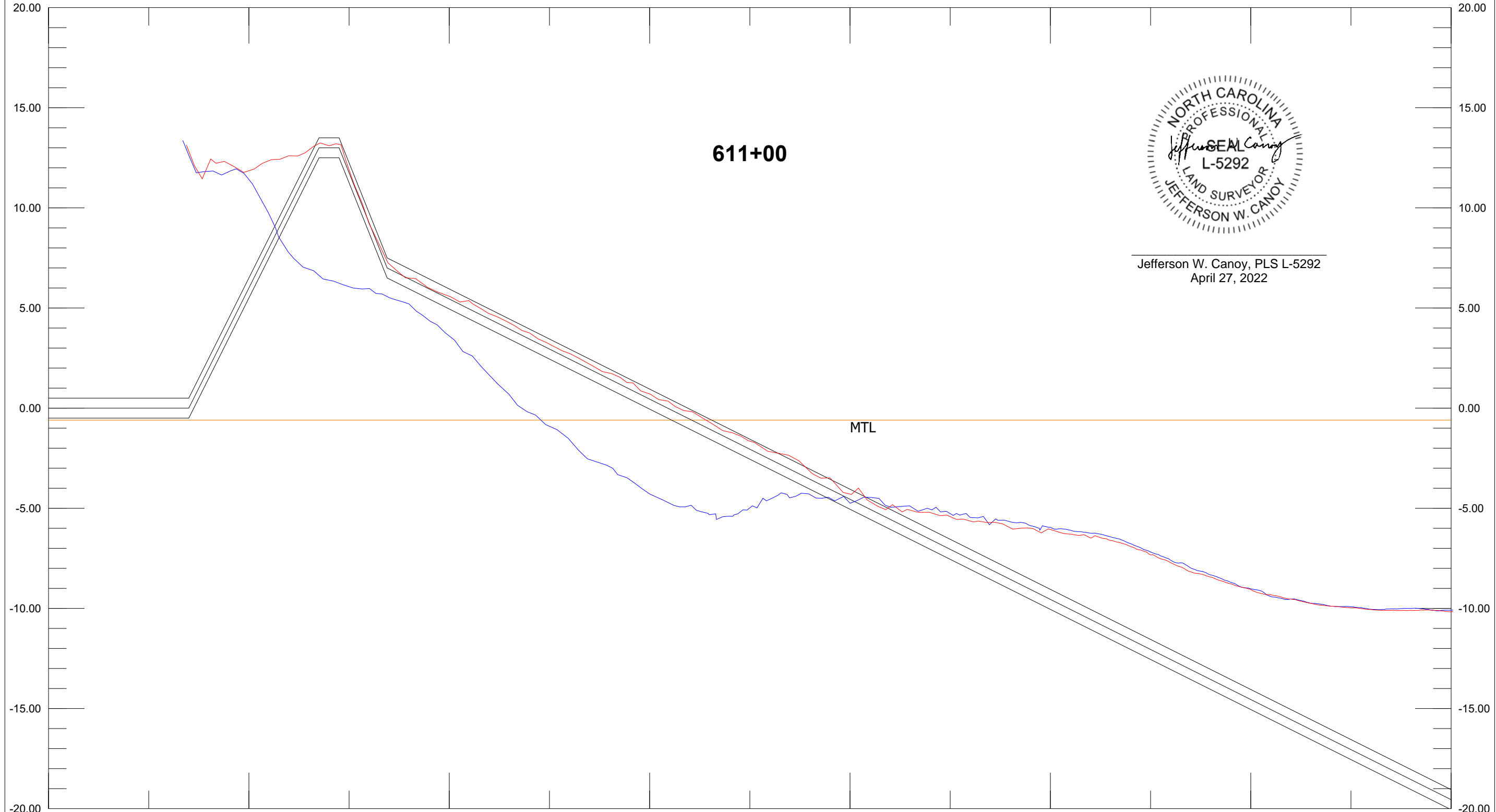
X: 2240865.56 610+00 Length: 1749.99 Azimuth: 176.75 X: 2240964.74
Y: 60831.30 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
610+00 610+00 Depth 5.00 Ft:In

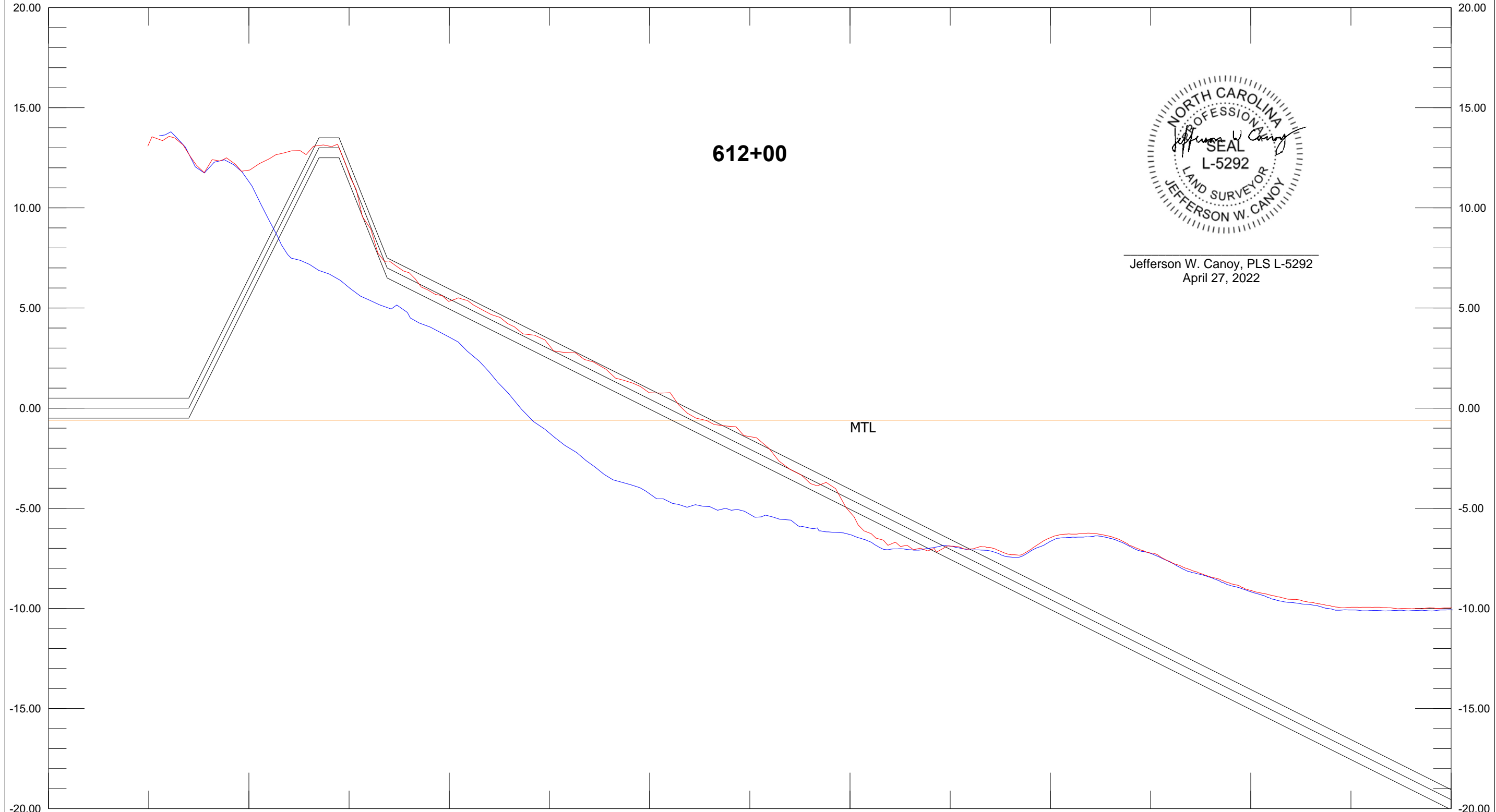
X: 2240765.72 611+00 Length: 1750.00 Azimuth: 176.75 X: 2240864.90
Y: 60825.64 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59078.45



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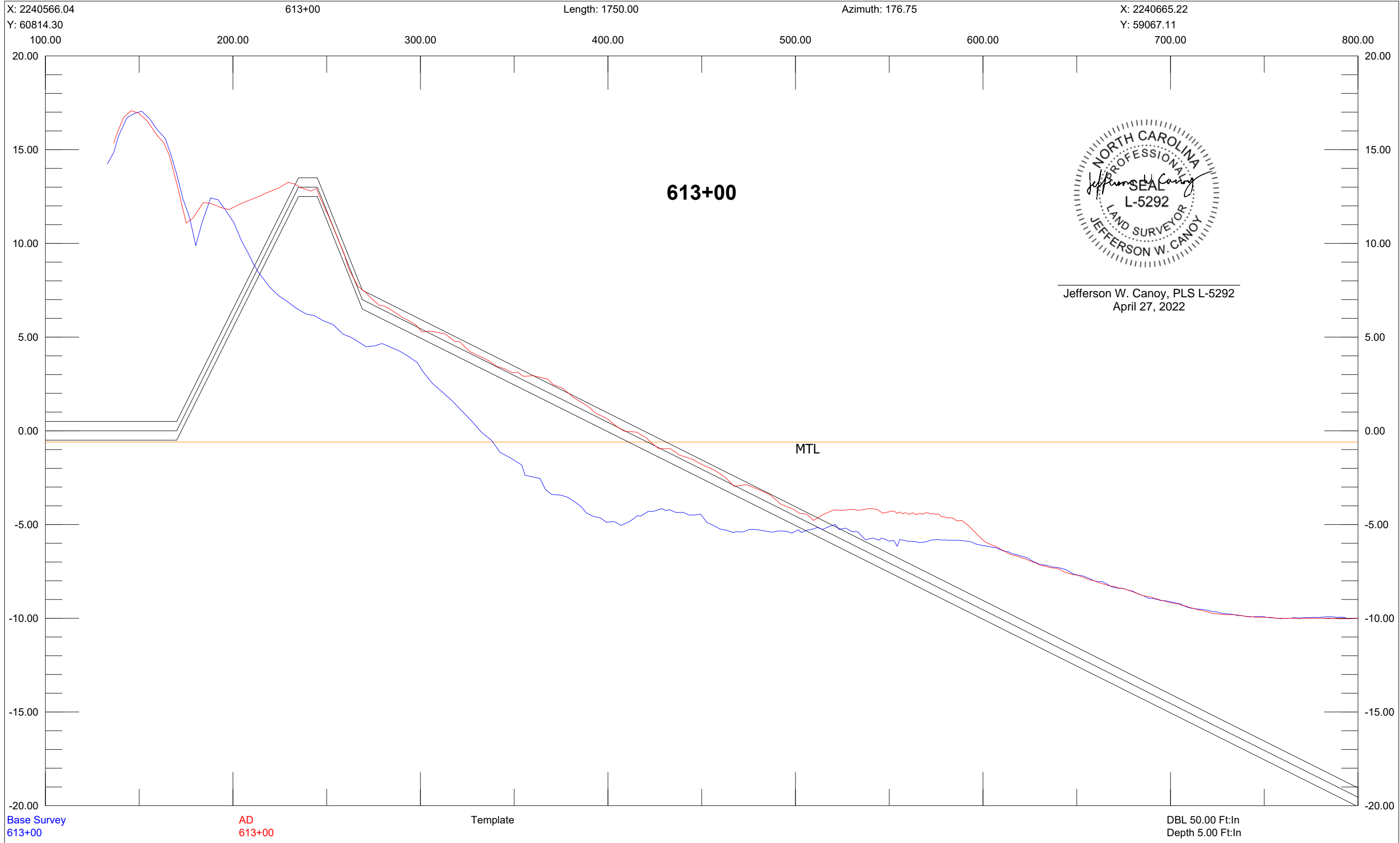
Base Survey AD Template DBL 50.00 Ft:In
611+00 611+00 Depth 5.00 Ft:In

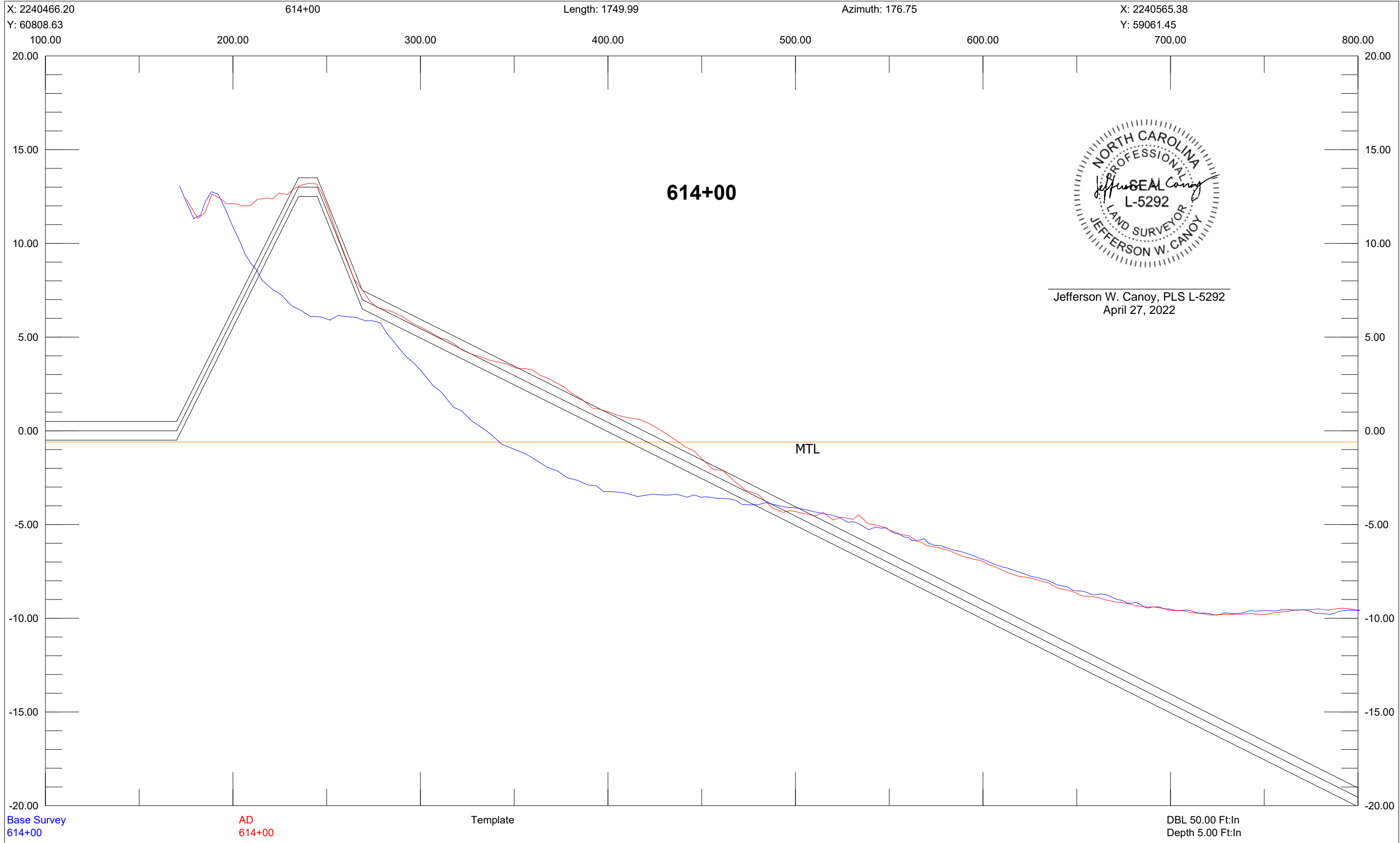
X: 2240665.88 612+00 Length: 1750.00 Azimuth: 176.75 X: 2240765.06
Y: 60819.97 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59072.78



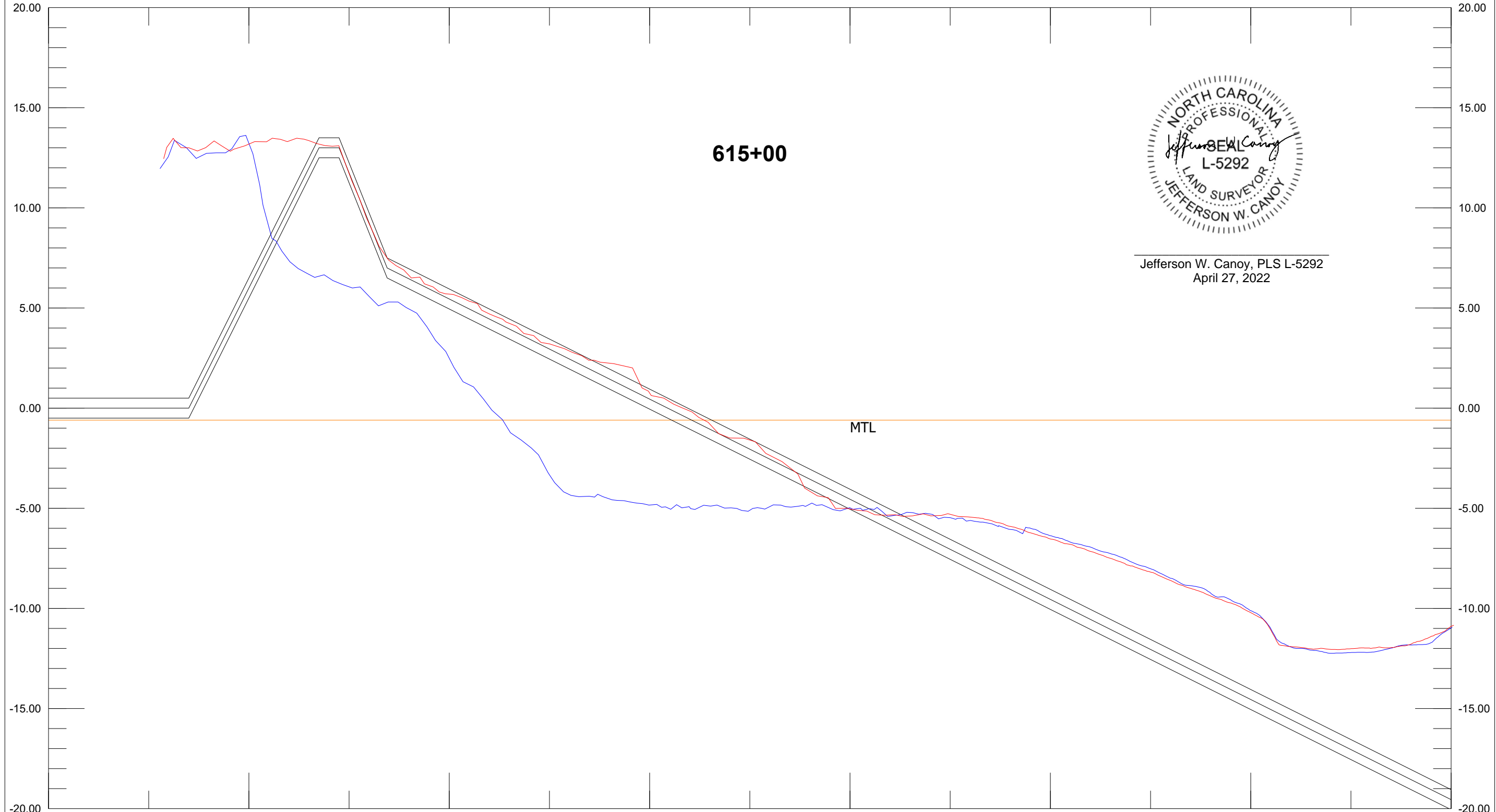
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Base Survey AD Template DBL 50.00 Ft:In
612+00 612+00 Depth 5.00 Ft:In





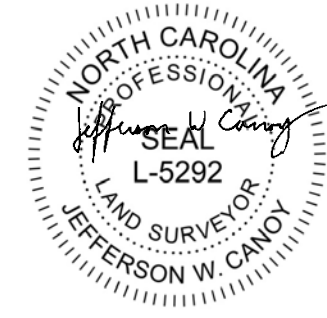
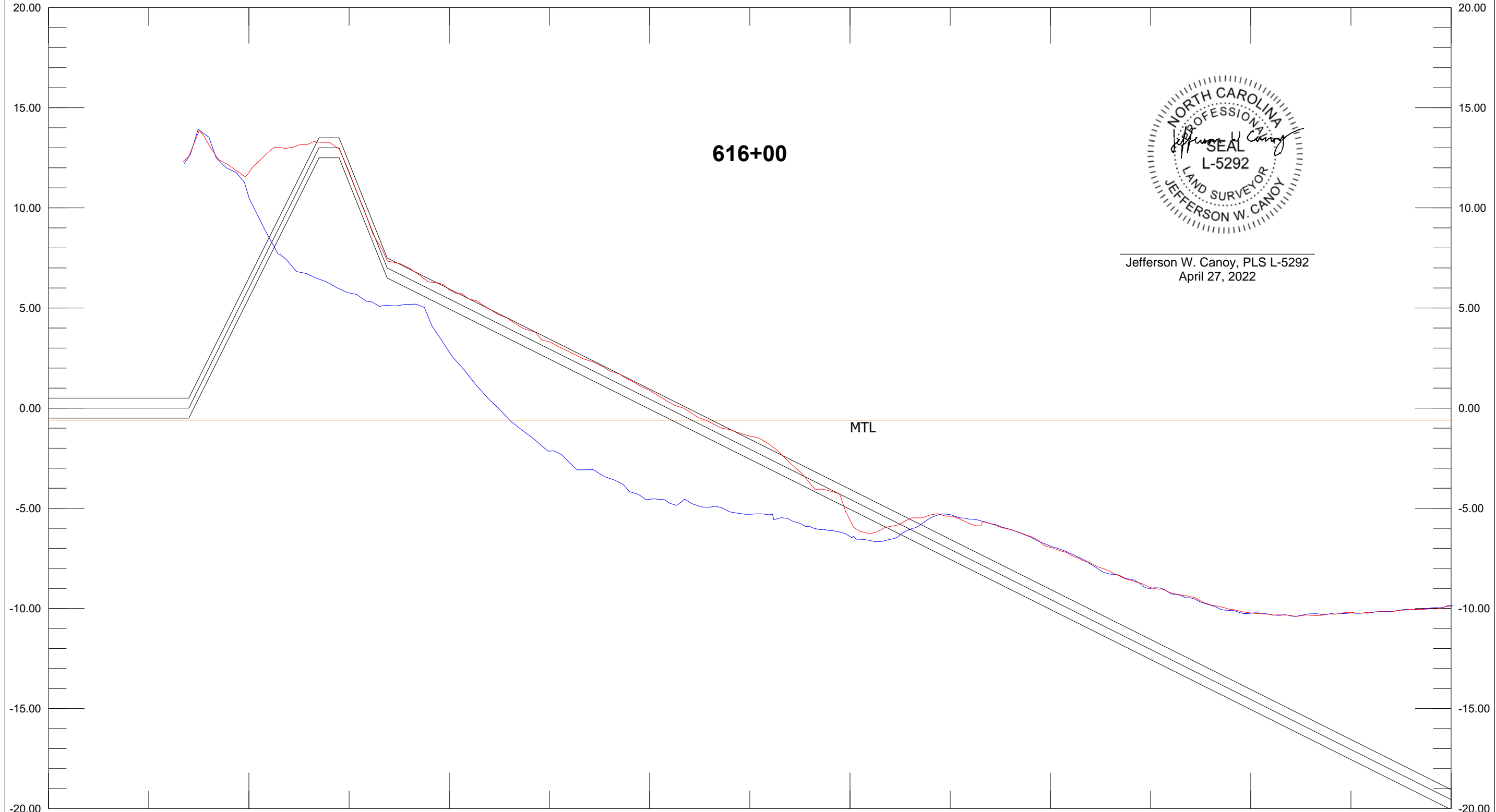
X: 2240366.36 615+00 Length: 1750.00 Azimuth: 176.75 X: 2240465.54
Y: 60802.97 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59055.78



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Base Survey AD Template DBL 50.00 Ft:In
615+00 615+00 Depth 5.00 Ft:In

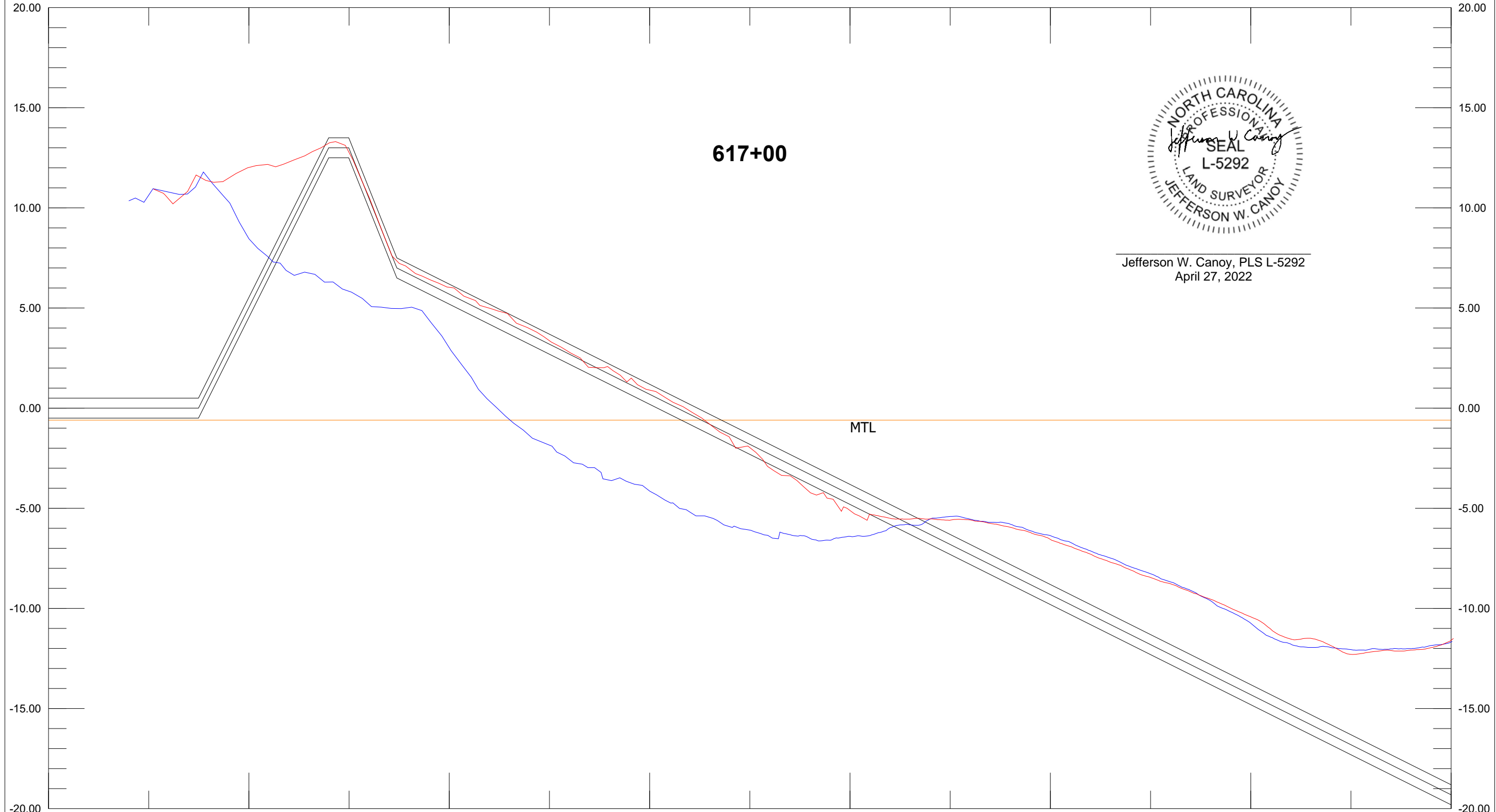
X: 2240266.52 616+00 Length: 1750.00 Azimuth: 176.75 X: 2240365.70
Y: 60797.30 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59050.11



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Base Survey AD Template DBL 50.00 Ft:In
616+00 616+00 Depth 5.00 Ft:In

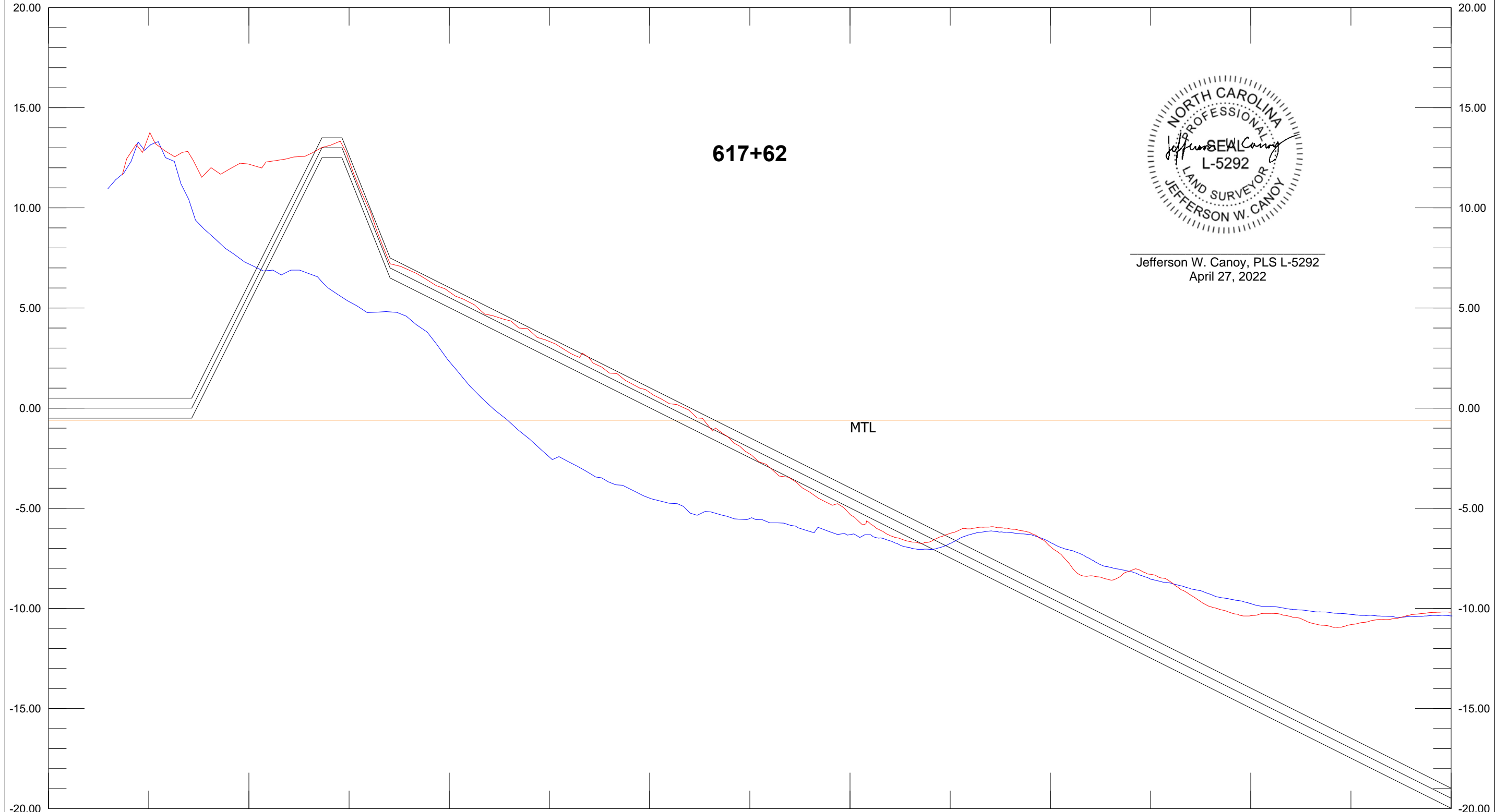
X: 2240166.68 617+00 Length: 1750.00 Azimuth: 176.75 X: 2240265.86
Y: 60791.63 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59044.44



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Base Survey AD Template DBL 50.00 Ft:In
617+00 617+00 Depth 5.00 Ft:In

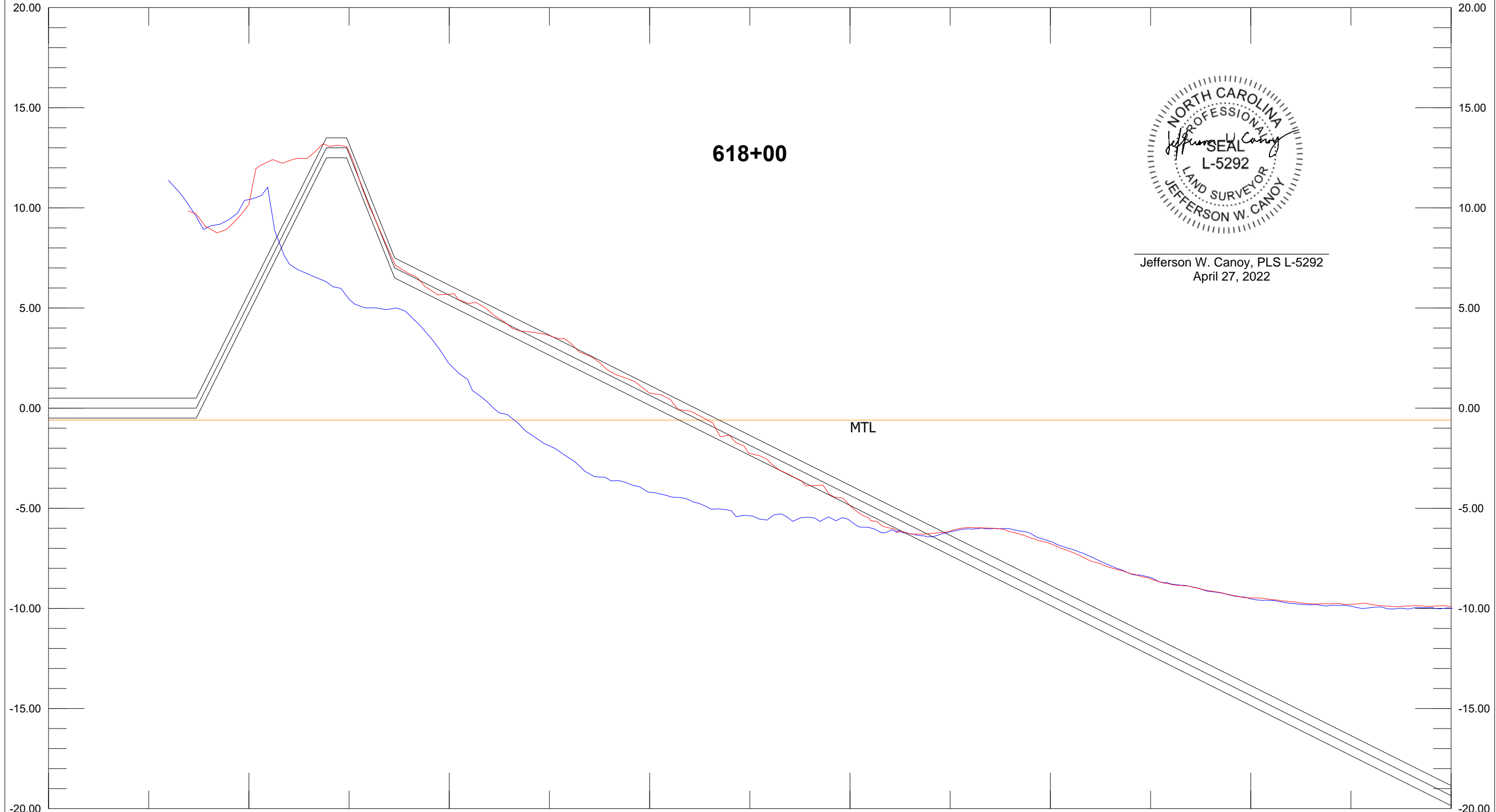
X: 2240105.55 617+62 Length: 1750.00 Azimuth: 176.75 X: 2240204.73
Y: 60784.61 Y: 59037.42
100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



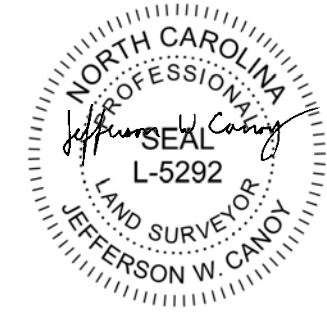
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Base Survey AD Template DBL 50.00 Ft:In
617+62 617+62 Depth 5.00 Ft:In

X: 2240063.61 618+00 Length: 1749.99 Azimuth: 176.00 X: 2240185.68
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100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



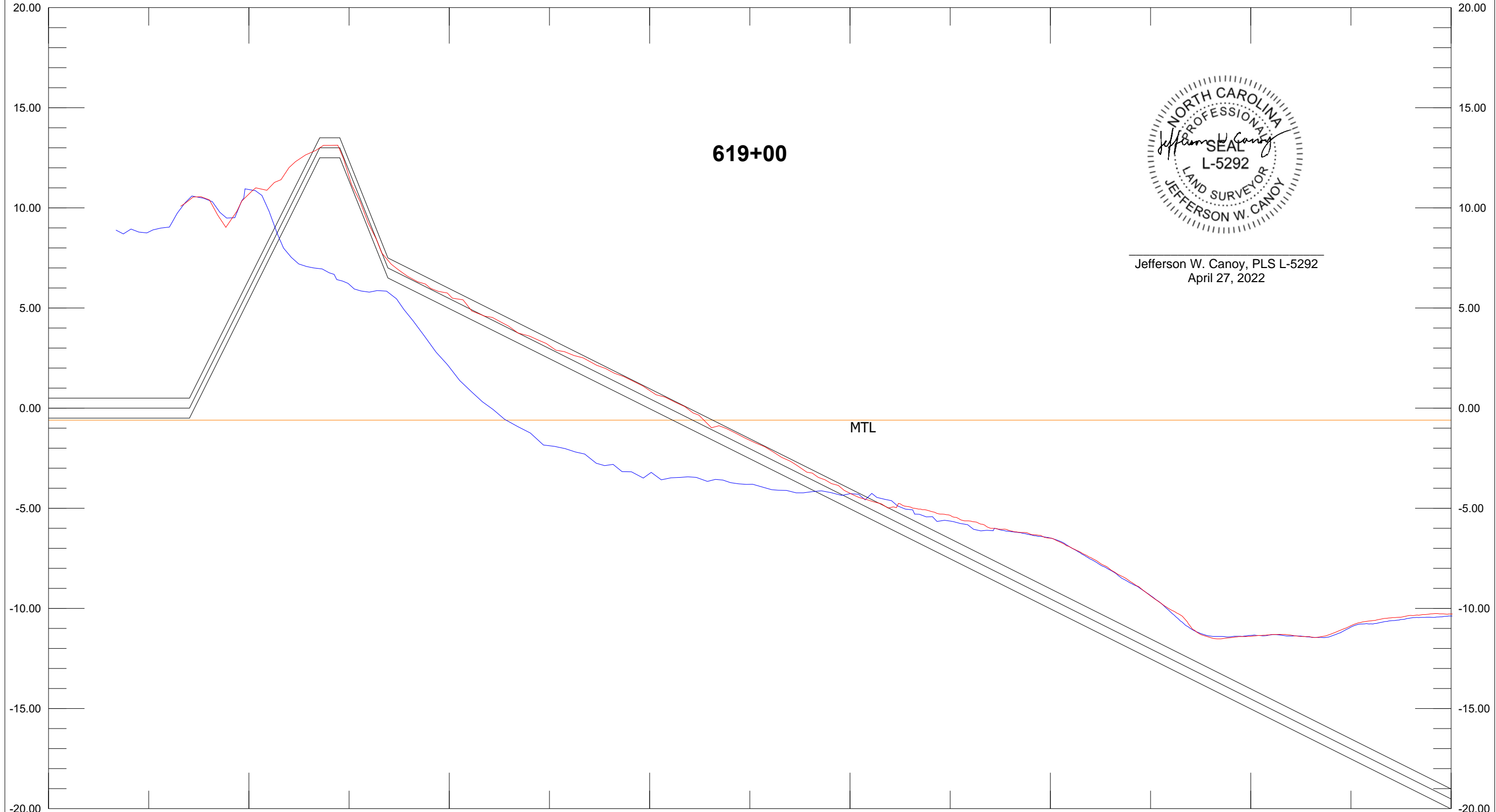
618+00



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Base Survey AD Template DBL 50.00 Ft:In
618+00 618+00 Depth 5.00 Ft:In

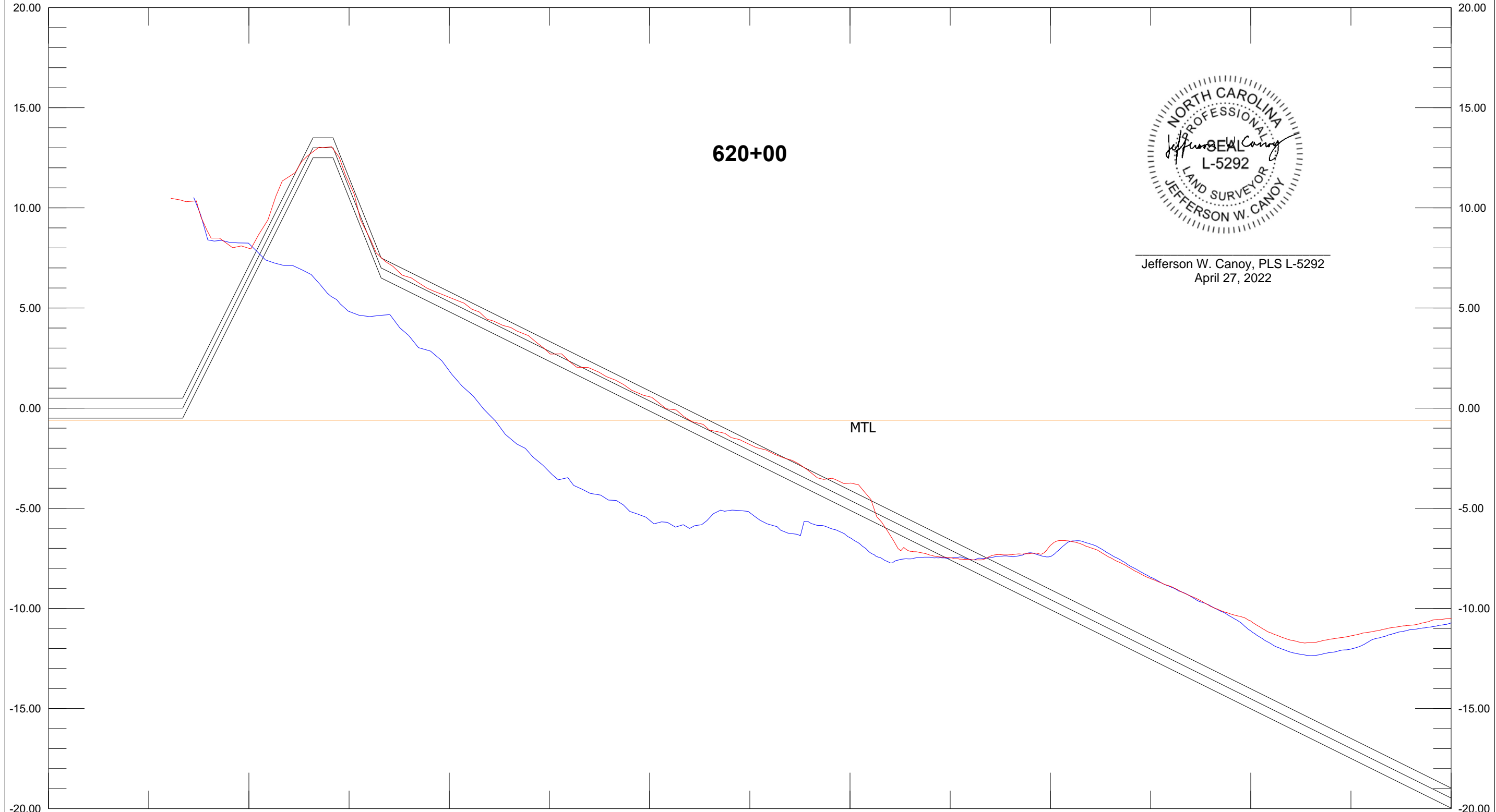
X: 2239963.85 619+00 Length: 1750.00 Azimuth: 176.00 X: 2240085.92
Y: 60778.29 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59032.55



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Base Survey AD Template DBL 50.00 Ft:In
619+00 619+00 Depth 5.00 Ft:In

X: 2239864.68 620+00 Length: 1749.99 Azimuth: 176.00 X: 2239986.75
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Y: 59025.60



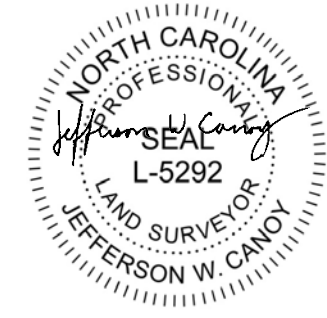
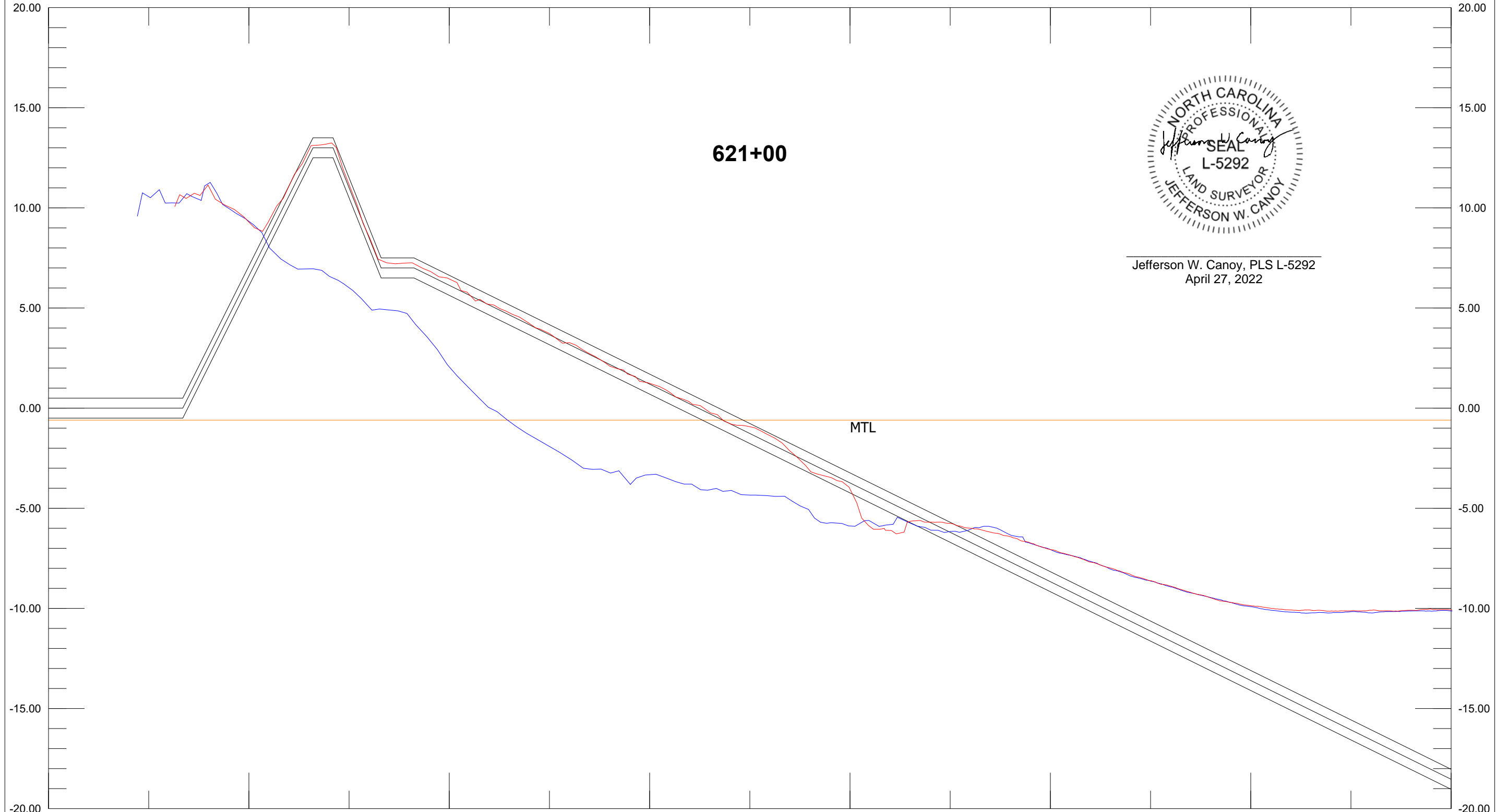
620+00



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Base Survey AD Template DBL 50.00 Ft:In
620+00 620+00 Depth 5.00 Ft:In

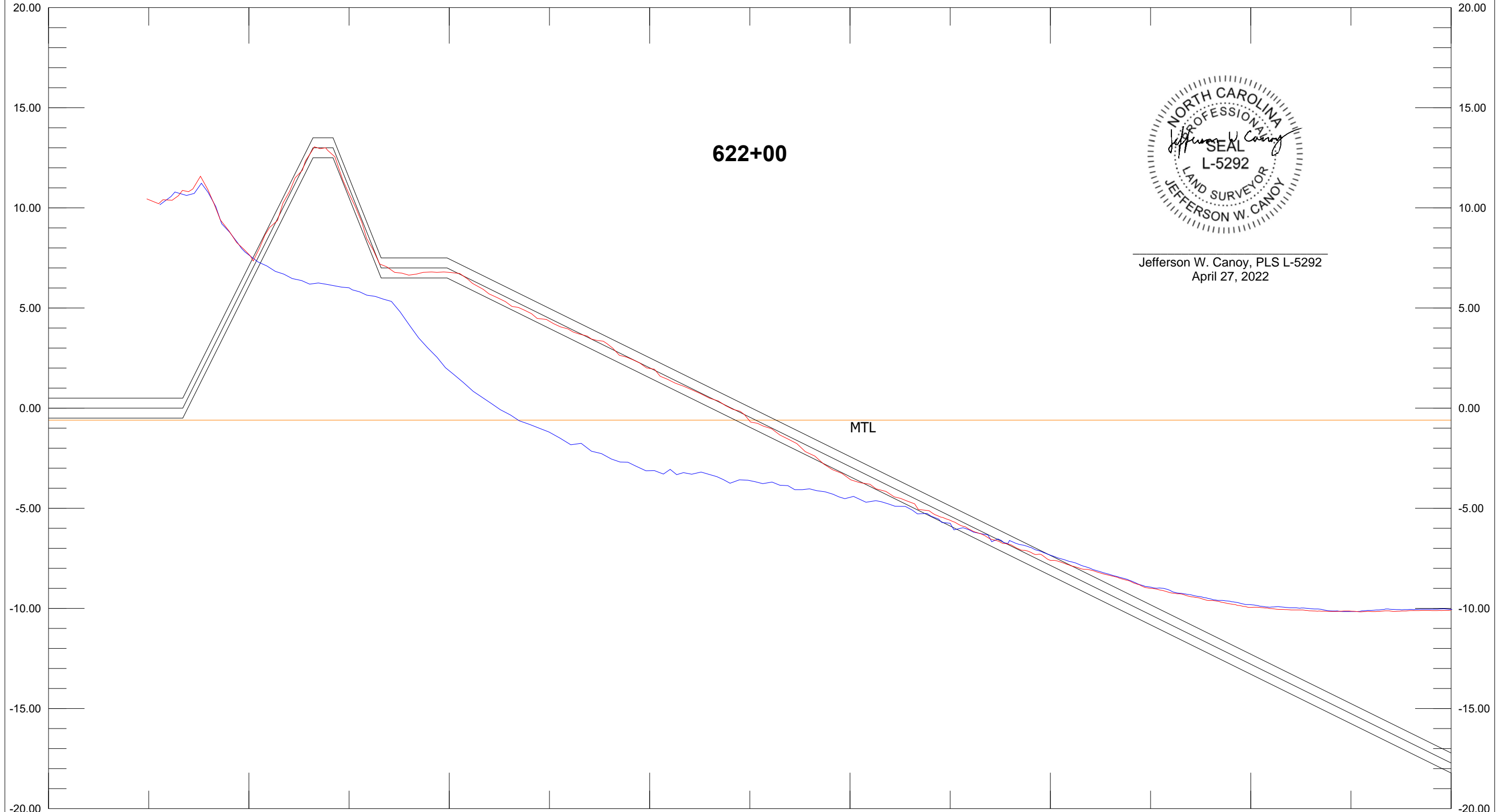
X: 2239771.33 621+00 Length: 1750.00 Azimuth: 177.64 X: 2239843.35
Y: 60767.59 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
621+00 621+00 Depth 5.00 Ft:In

X: 2239671.41 622+00 Length: 1750.00 Azimuth: 177.64 X: 2239743.43
Y: 60763.47 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



622+00

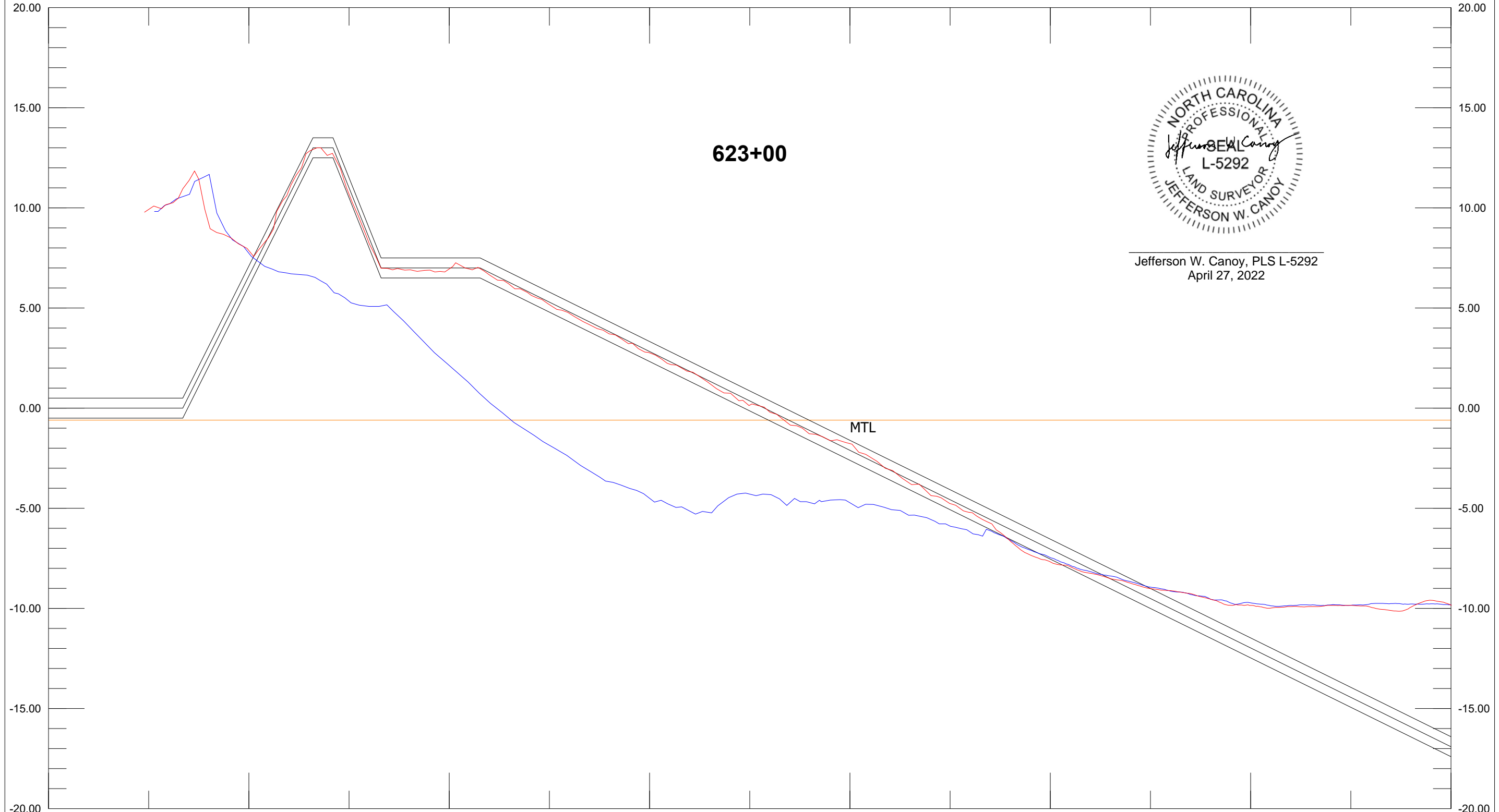


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MTL

Base Survey AD Template DBL 50.00 Ft:In
622+00 622+00 Depth 5.00 Ft:In

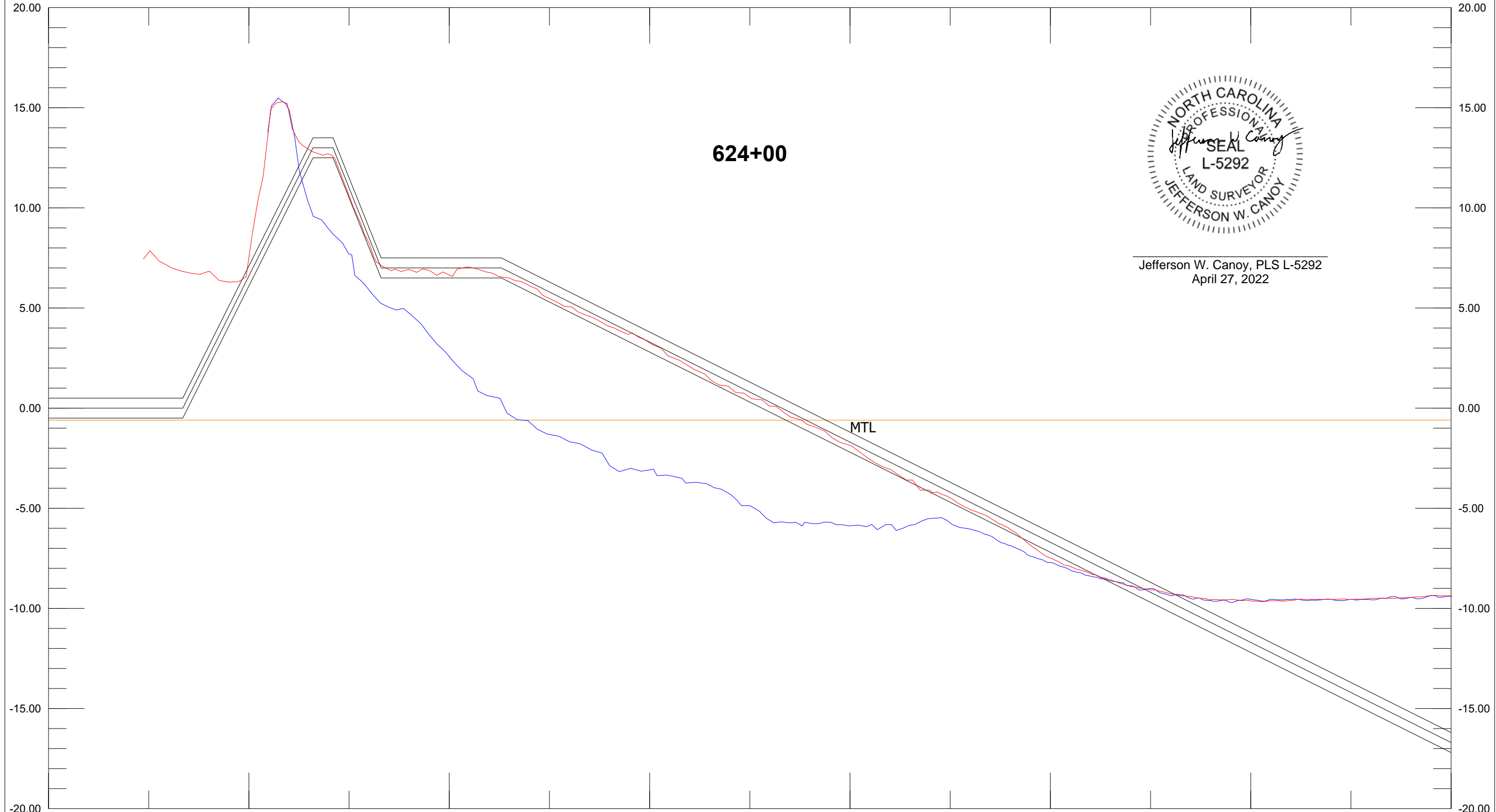
X: 2239571.50 623+00 Length: 1750.00 Azimuth: 177.64 X: 2239643.51
Y: 60759.36 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 59010.84



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Base Survey AD Template DBL 50.00 Ft:In
623+00 623+00 Depth 5.00 Ft:In

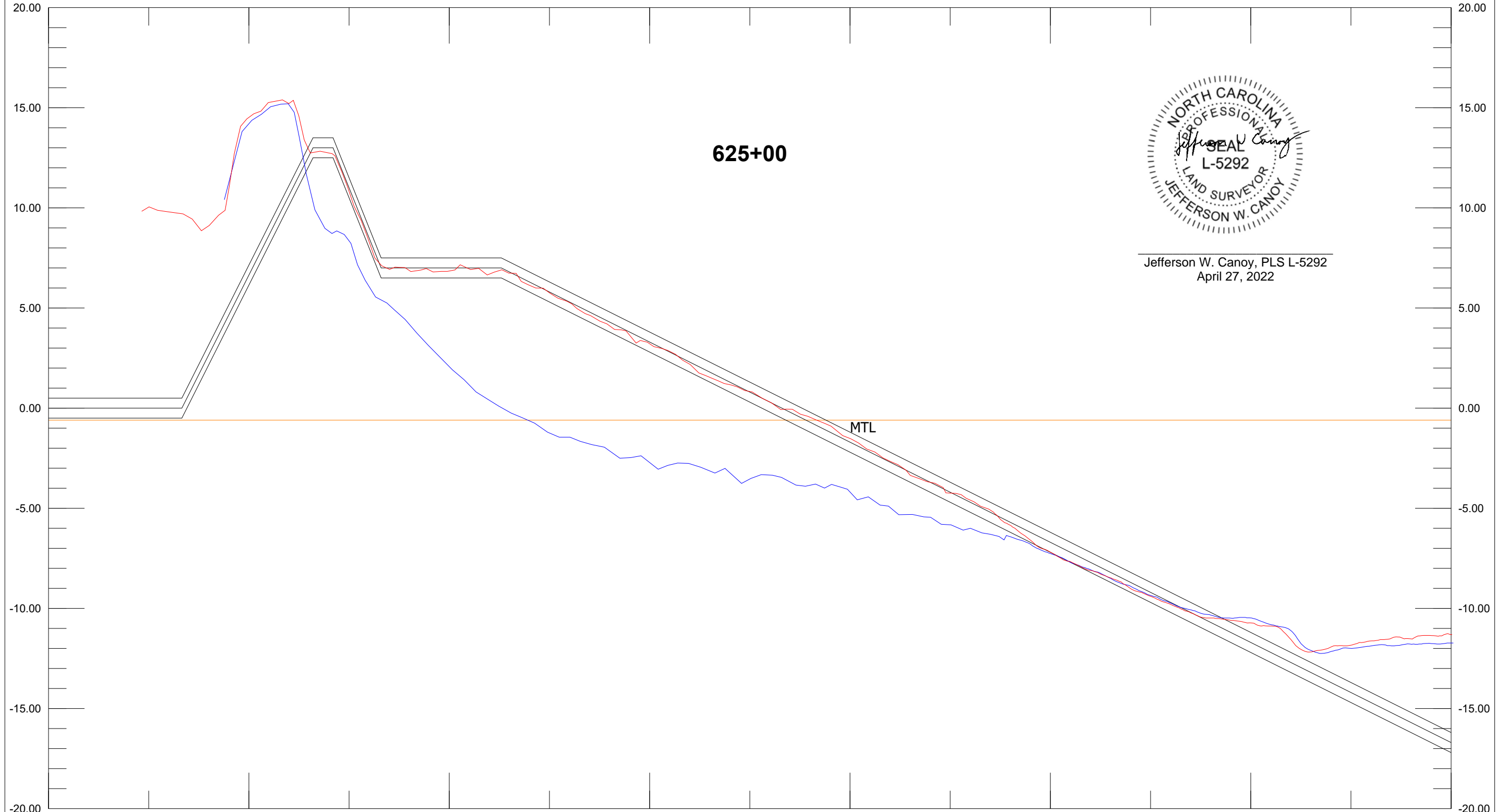
X: 2239471.58 624+00 Length: 1750.00 Azimuth: 177.64 X: 2239543.60
Y: 60755.24 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
624+00 624+00 Depth 5.00 Ft:In

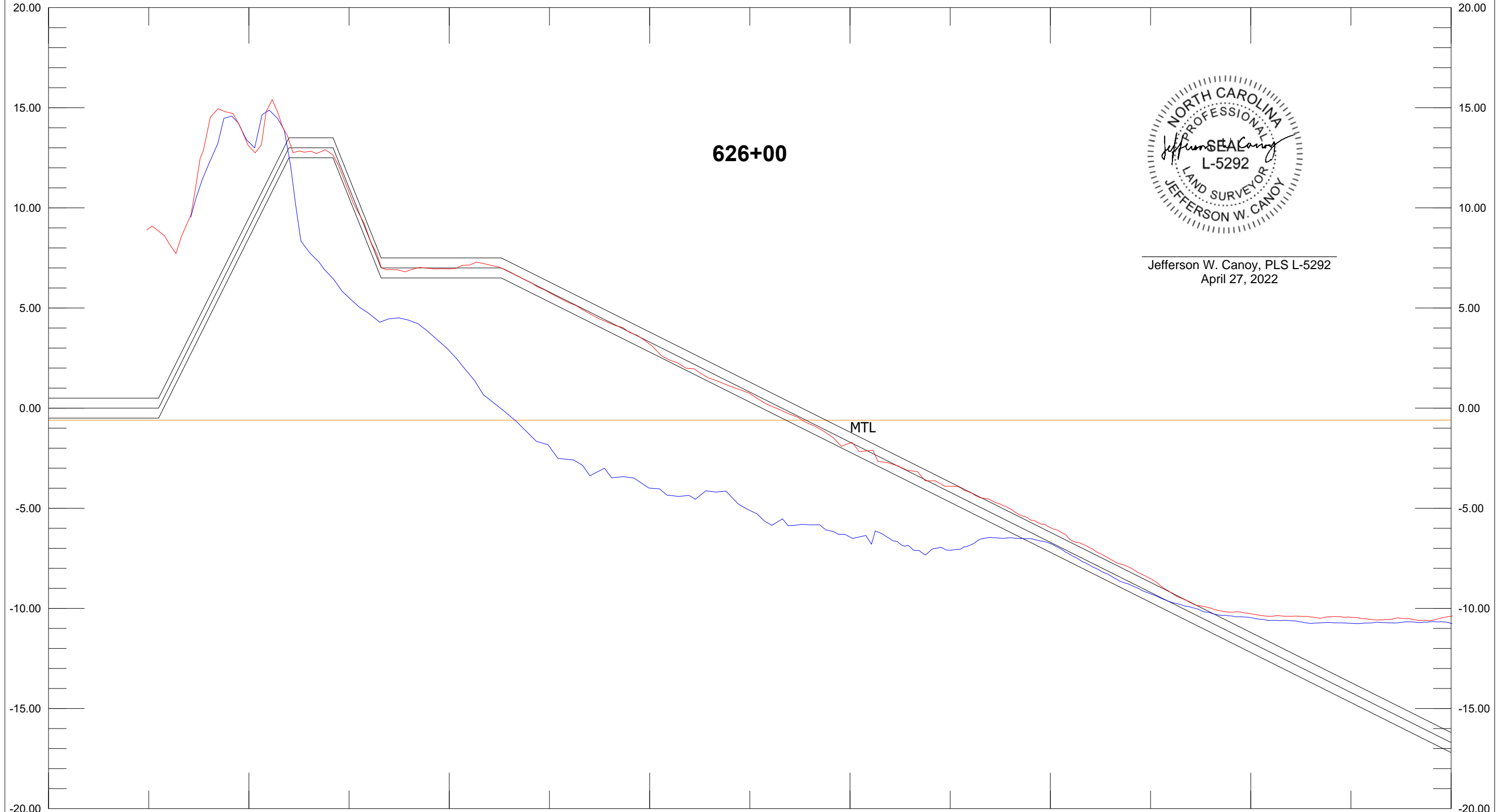
X: 2239371.67 625+00 Length: 1750.00 Azimuth: 177.64 X: 2239443.68
Y: 60751.13 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
625+00 625+00 Depth 5.00 Ft:In

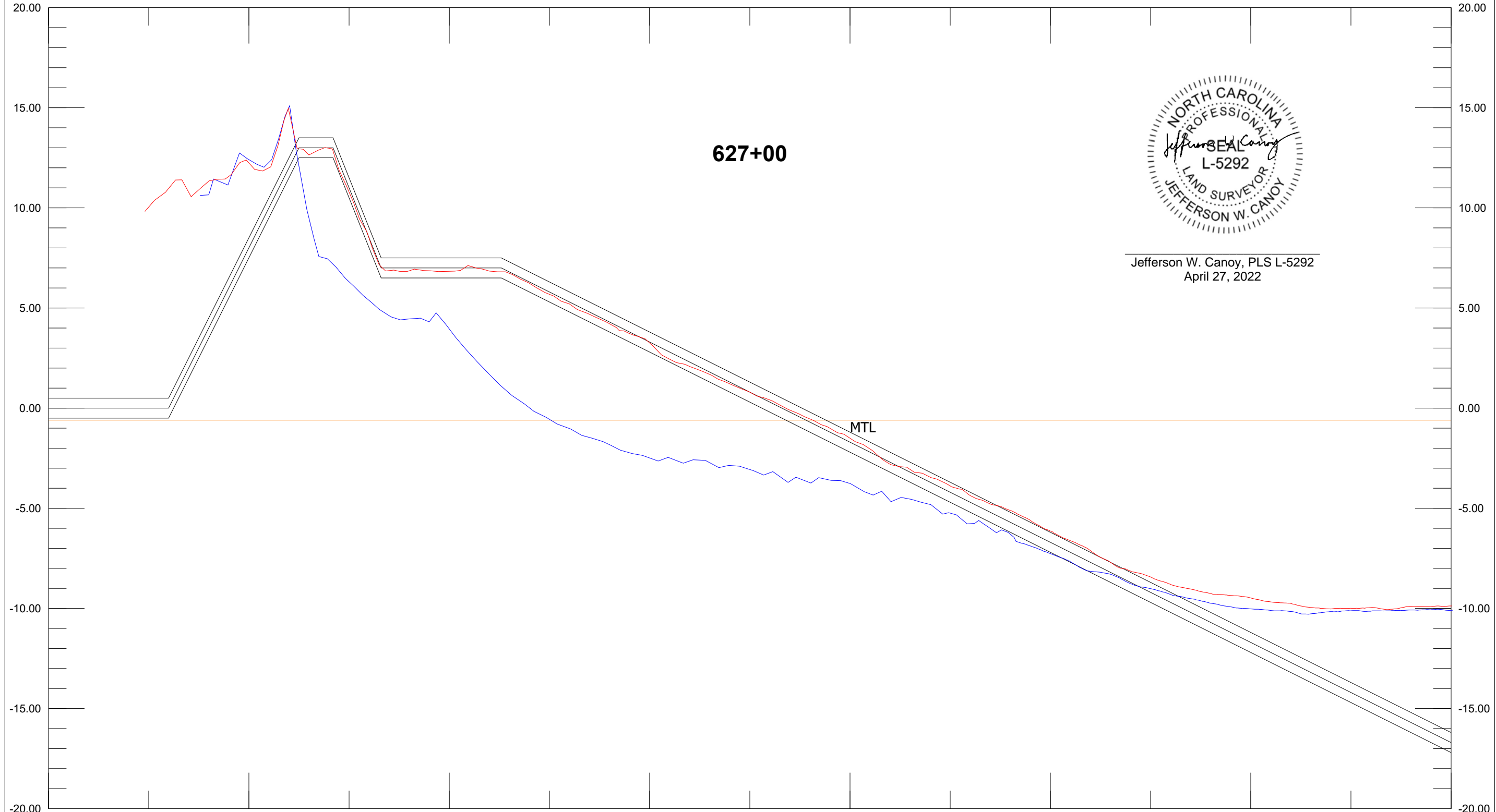
X: 2239271.75 626+00 Length: 1750.00 Azimuth: 177.64 X: 2239343.77
Y: 60747.01 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey 626+00 AD 626+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

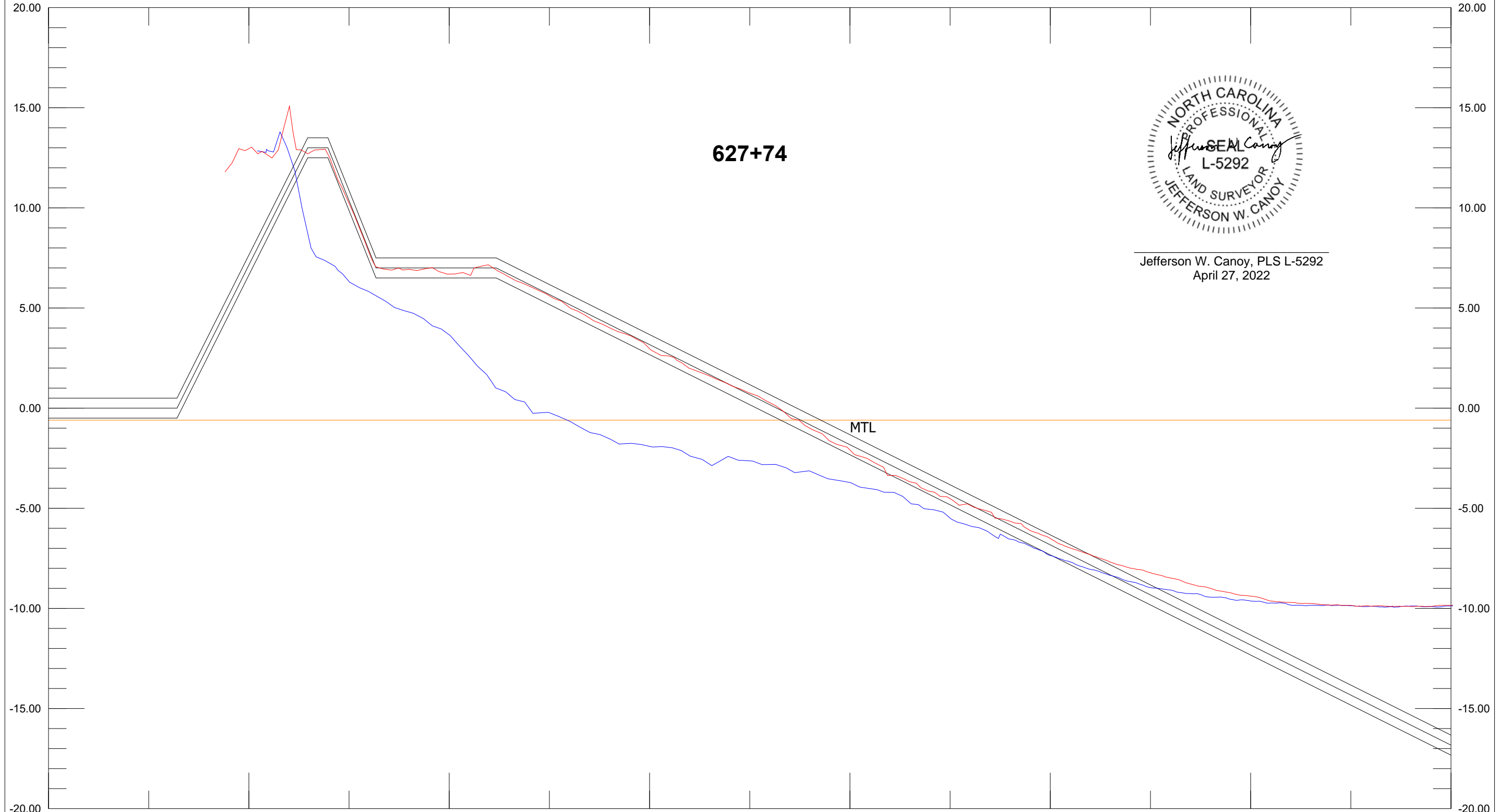
X: 2239171.84 627+00 Length: 1750.00 Azimuth: 177.64 X: 2239243.85
Y: 60742.90 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
627+00 627+00 Depth 5.00 Ft:In

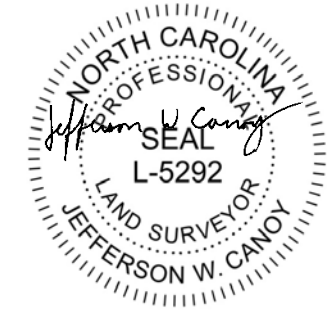
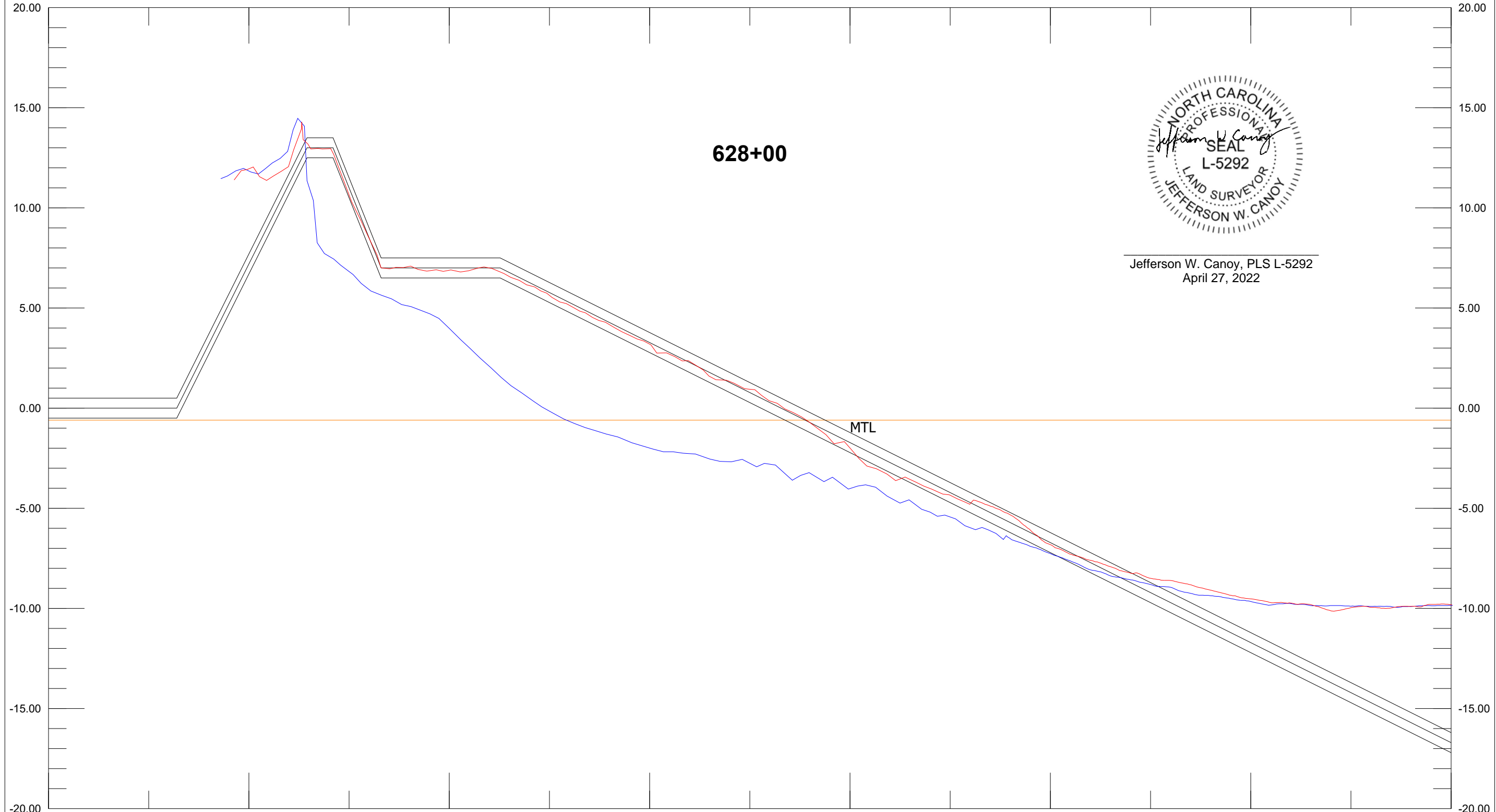
X: 2239096.90 627+74 Length: 1750.01 Azimuth: 177.13 X: 2239184.55
Y: 60737.25 Y: 58989.44
100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
627+74 627+74 Depth 5.00 Ft:In

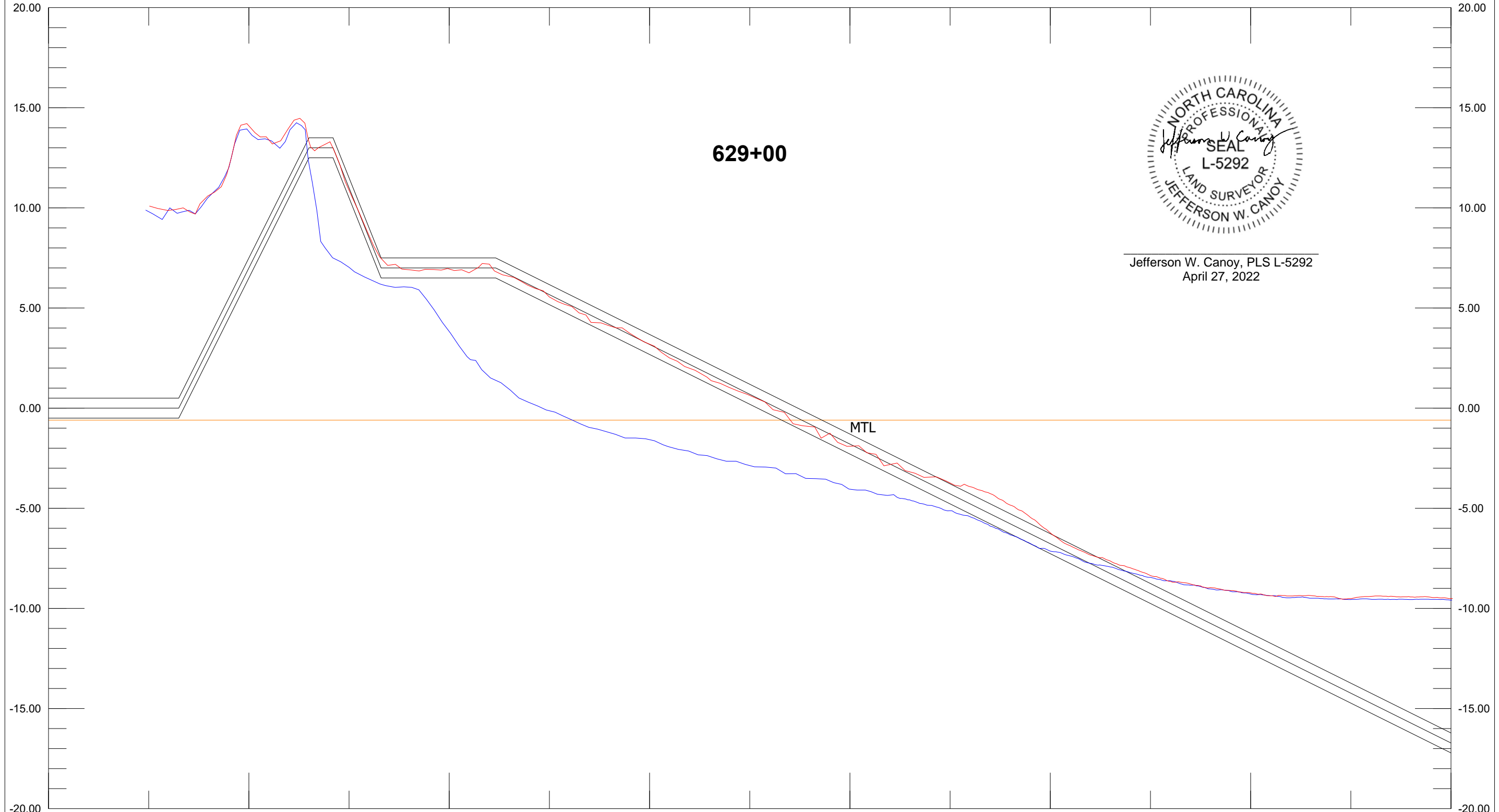
X: 2239067.12 628+00 Length: 1750.00 Azimuth: 176.53 X: 2239172.94
Y: 60738.03 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
628+00 628+00 Depth 5.00 Ft:In

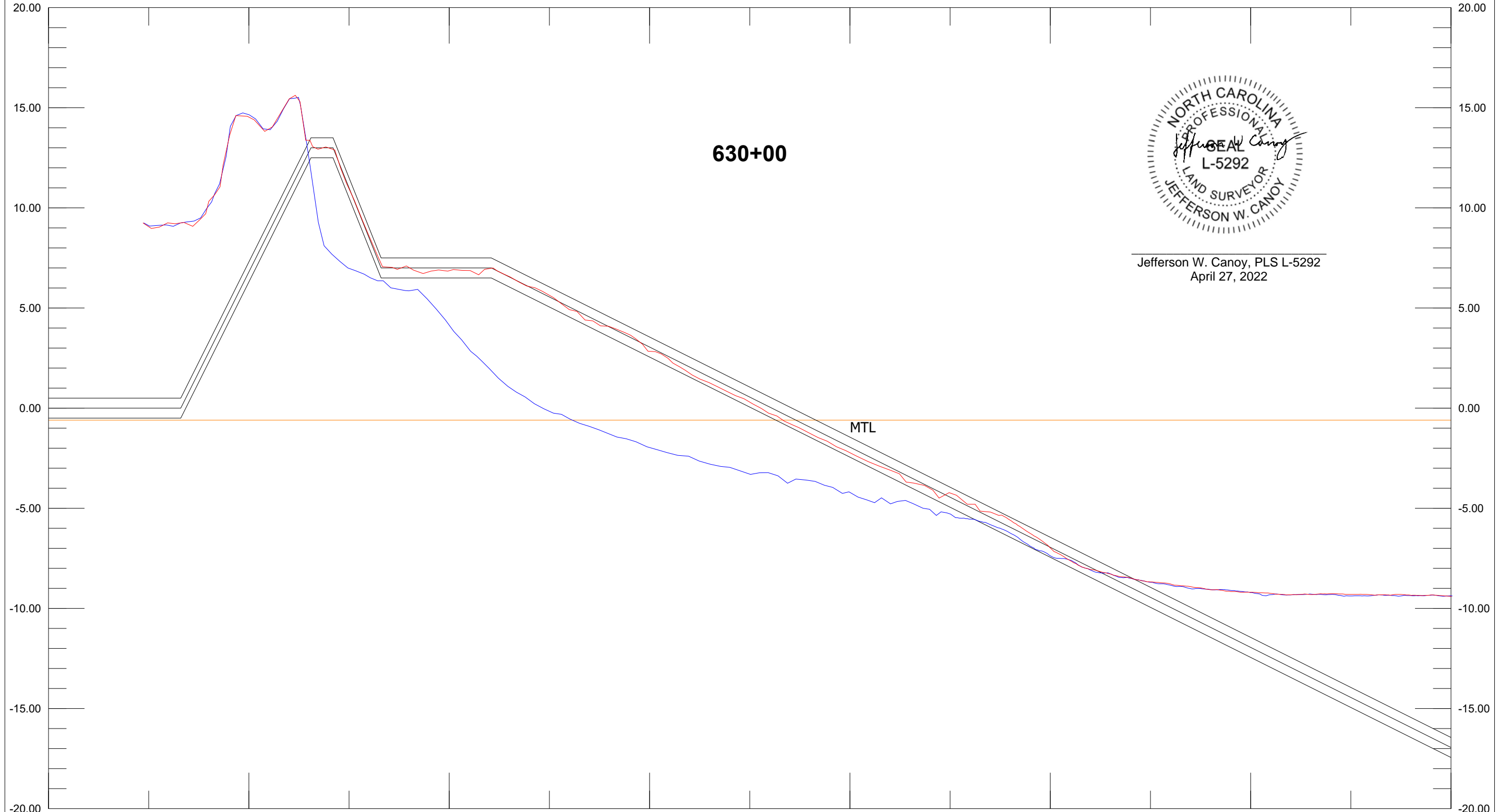
X: 2238967.30 629+00 Length: 1750.00 Azimuth: 176.53 X: 2239073.12
Y: 60731.98 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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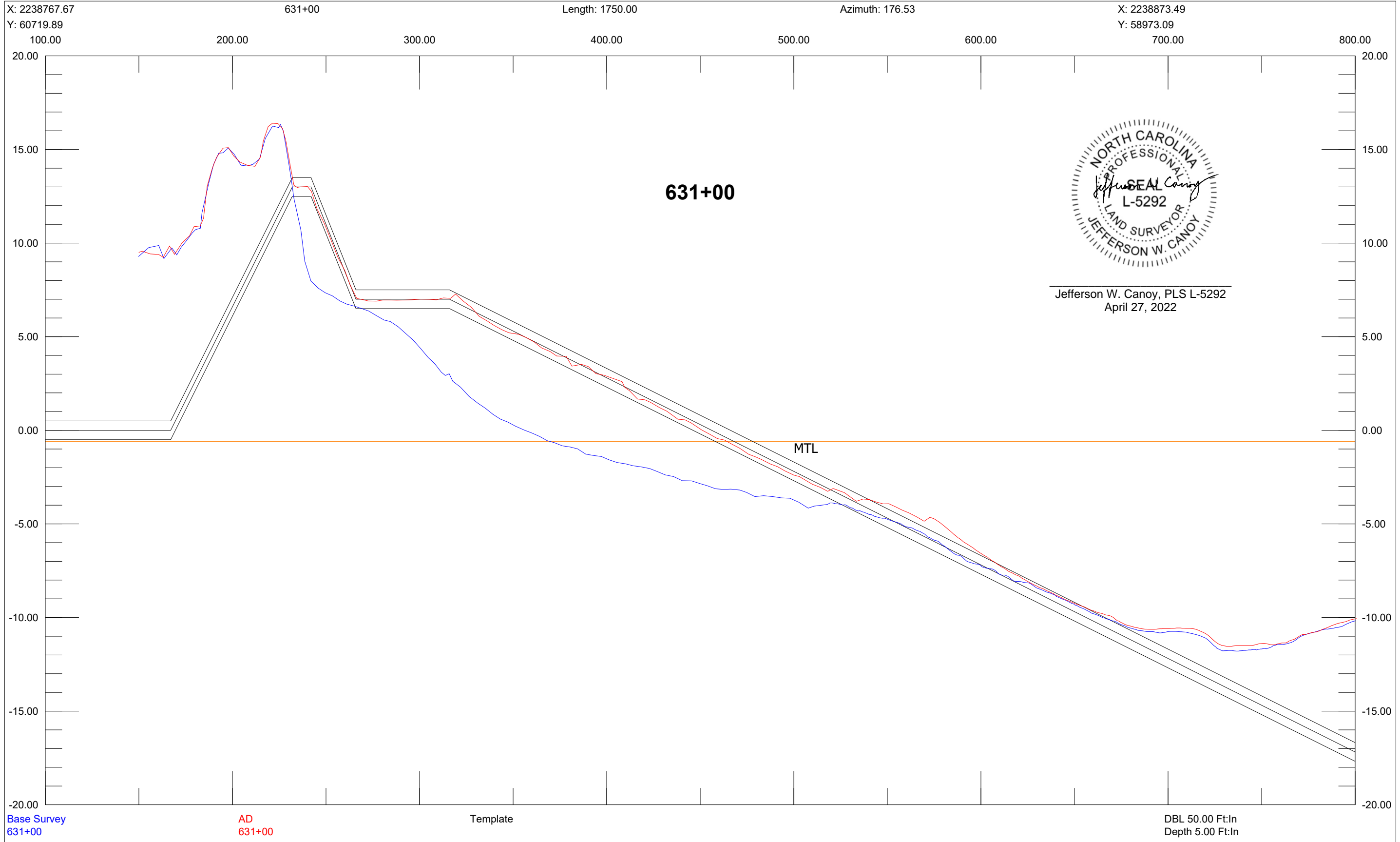
Base Survey AD Template DBL 50.00 Ft:In
629+00 629+00 Depth 5.00 Ft:In

X: 2238867.48 630+00 Length: 1749.99 Azimuth: 176.53 X: 2238973.31
Y: 60725.93 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00

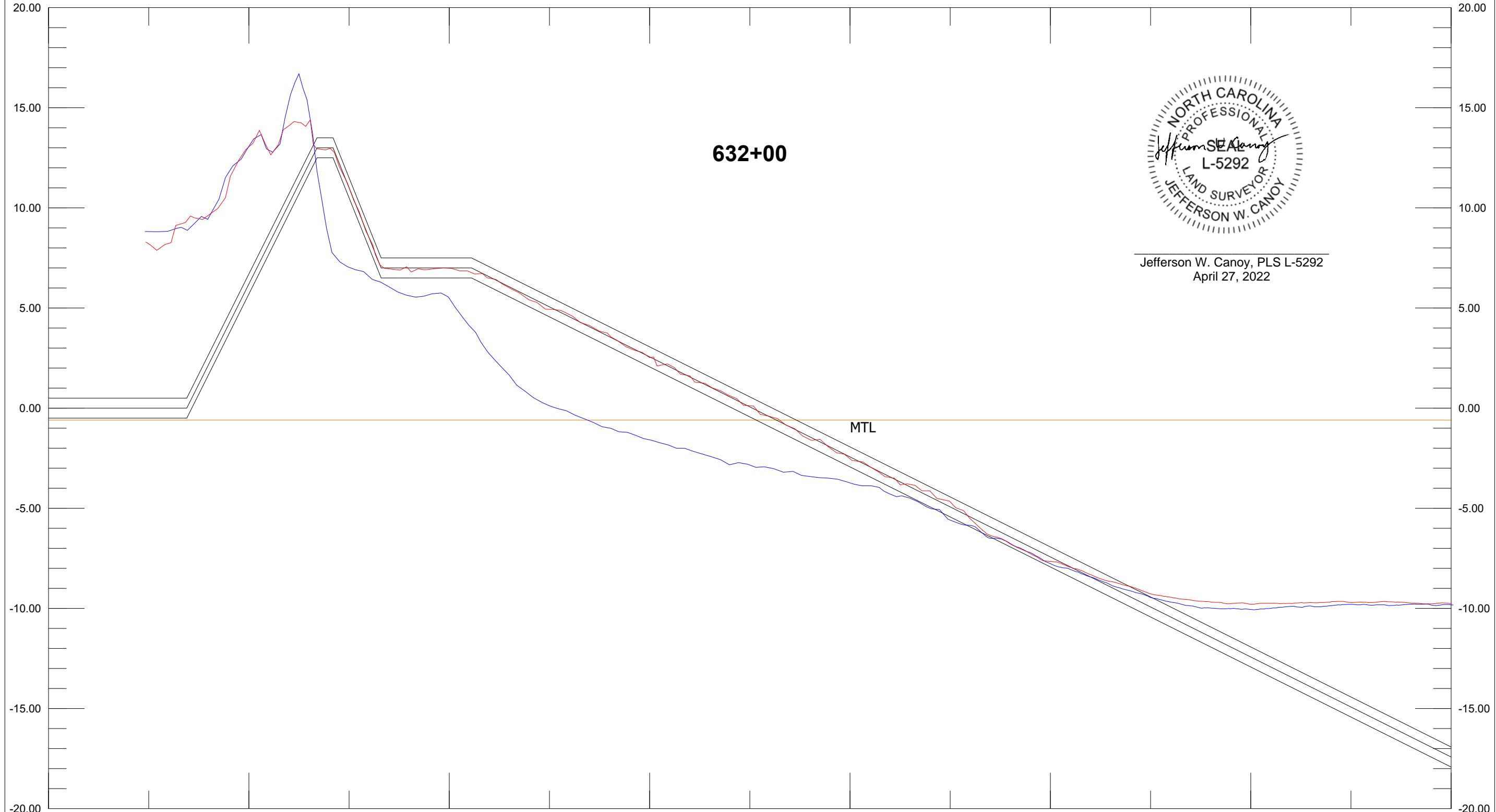


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Base Survey AD Template DBL 50.00 Ft:In
630+00 630+00 Depth 5.00 Ft:In



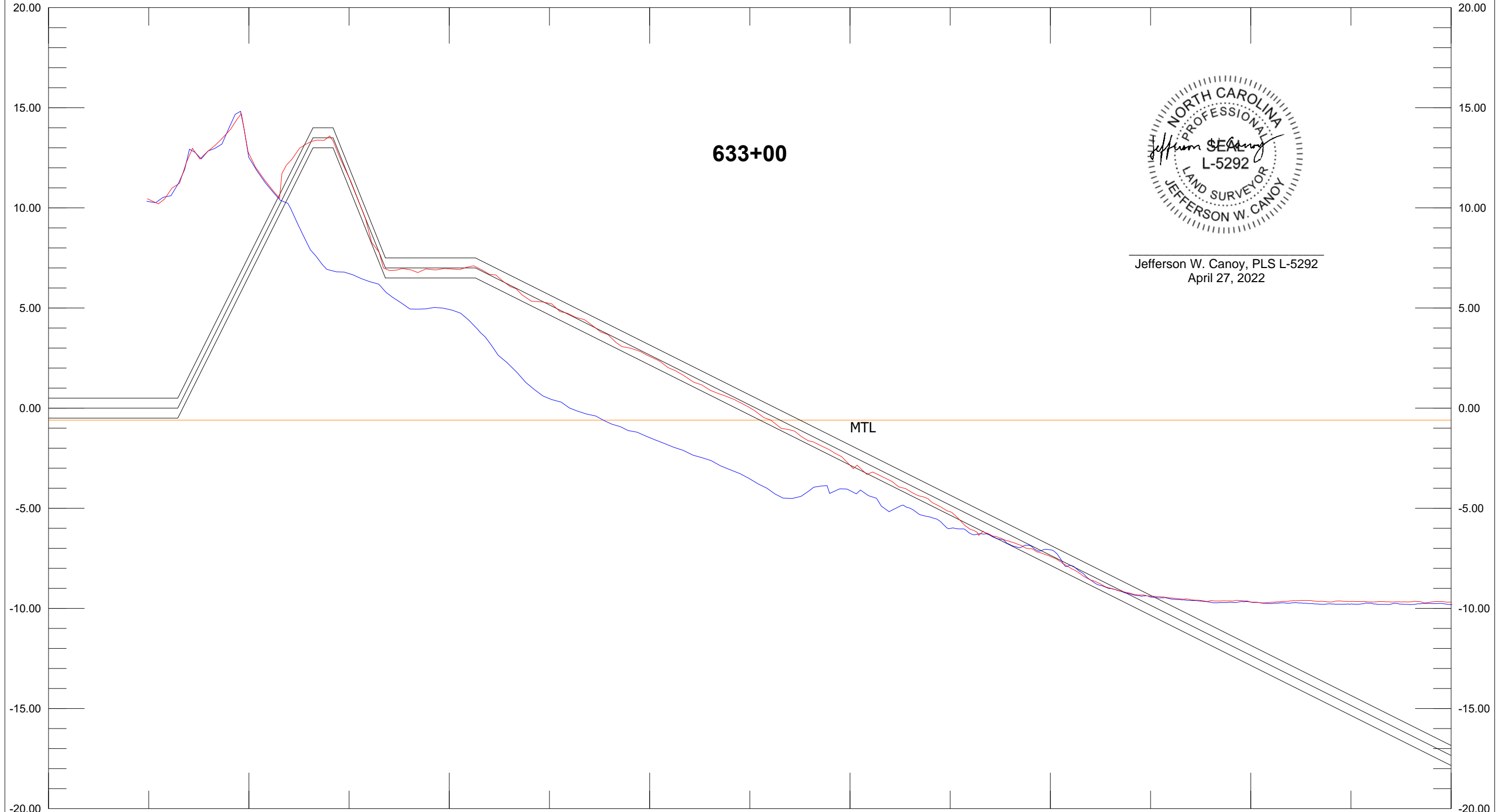
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Y: 60713.84 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
632+00 632+00 Depth 5.00 Ft:In

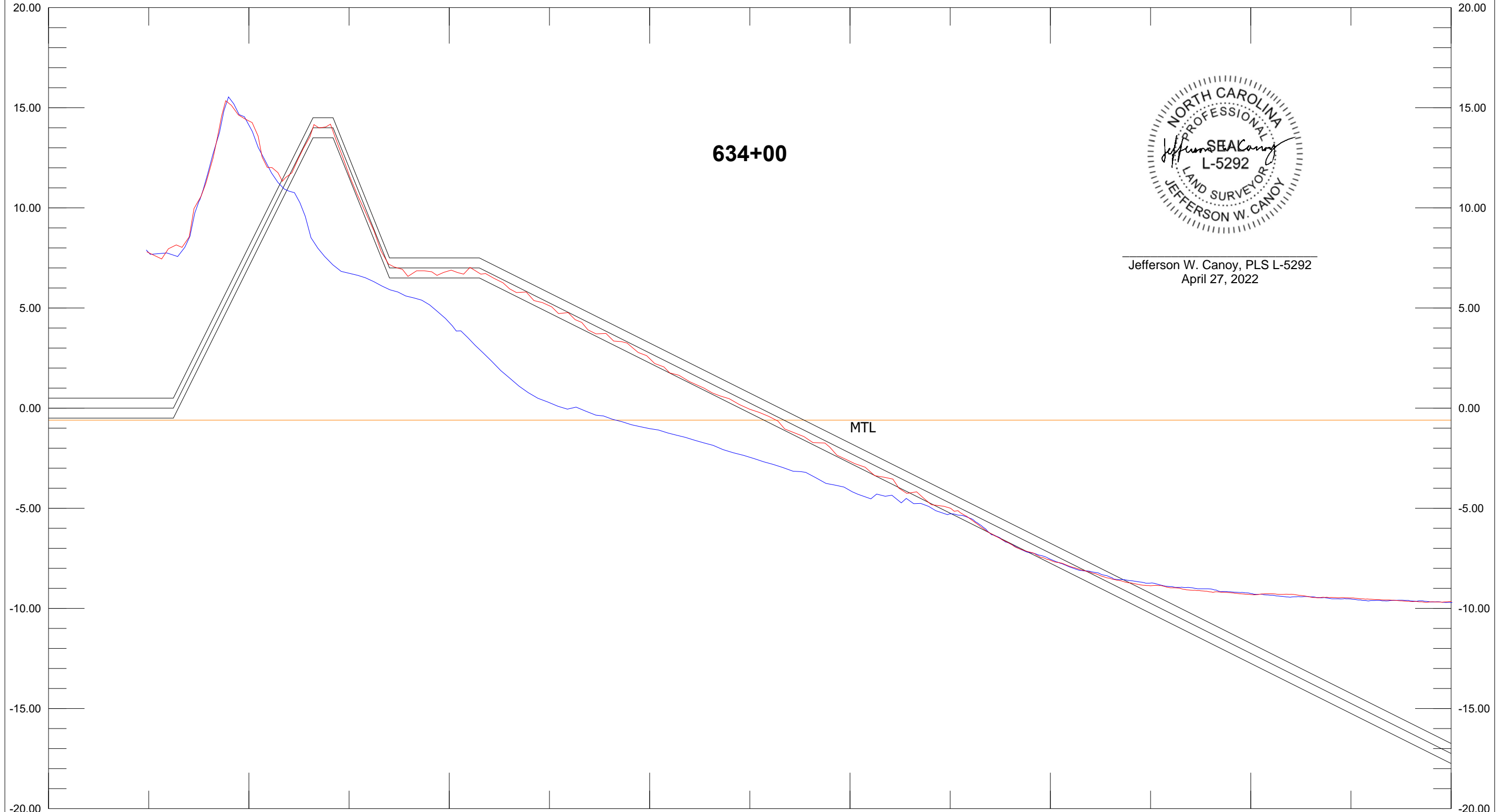
X: 2238568.03 633+00 Length: 1749.99 Azimuth: 176.53 X: 2238673.85
Y: 60707.79 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
633+00 633+00 Depth 5.00 Ft:In

X: 2238468.21 634+00 Length: 1749.99 Azimuth: 176.53 X: 2238574.04
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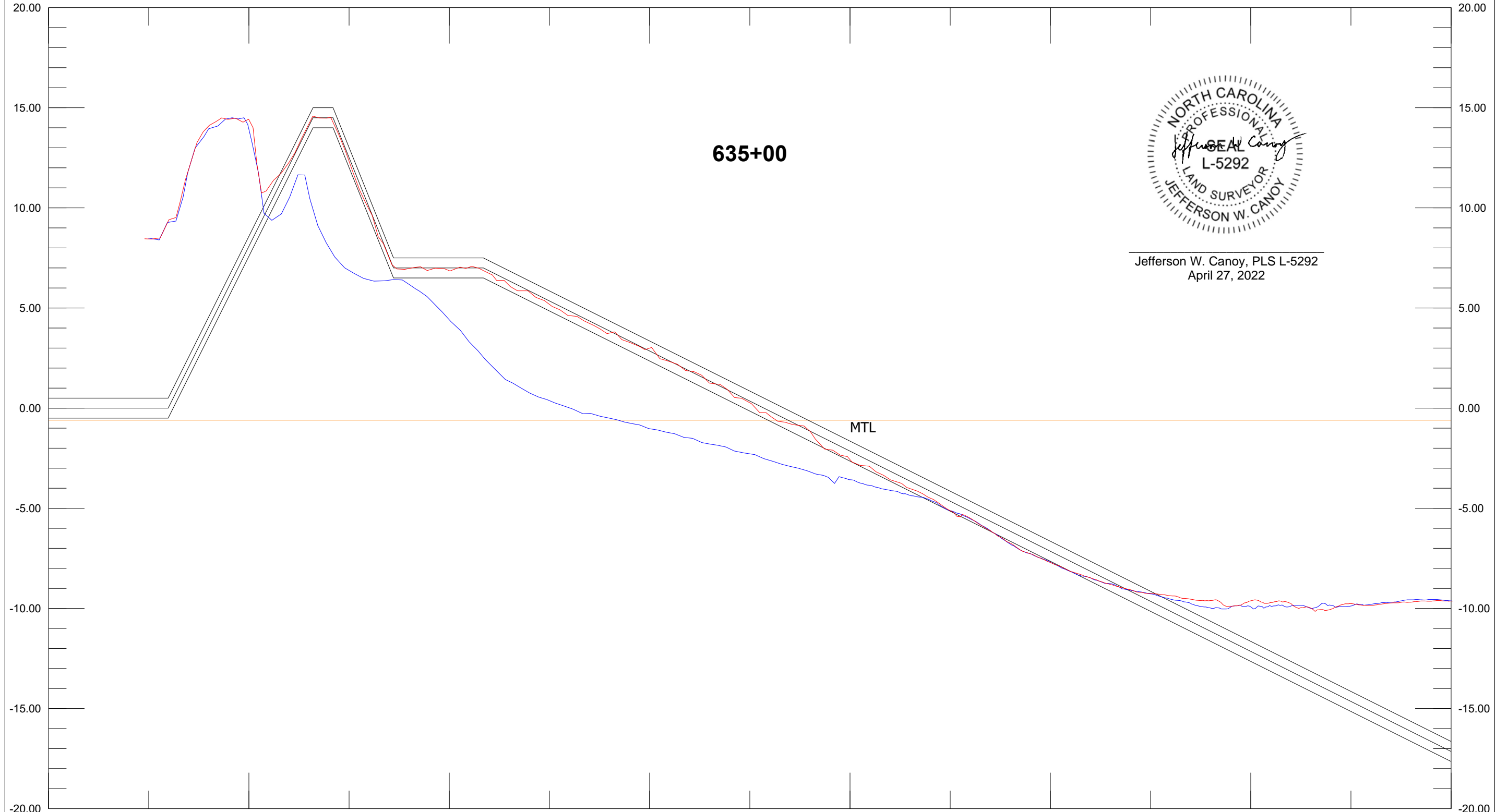
634+00



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Base Survey AD Template DBL 50.00 Ft:In
634+00 634+00

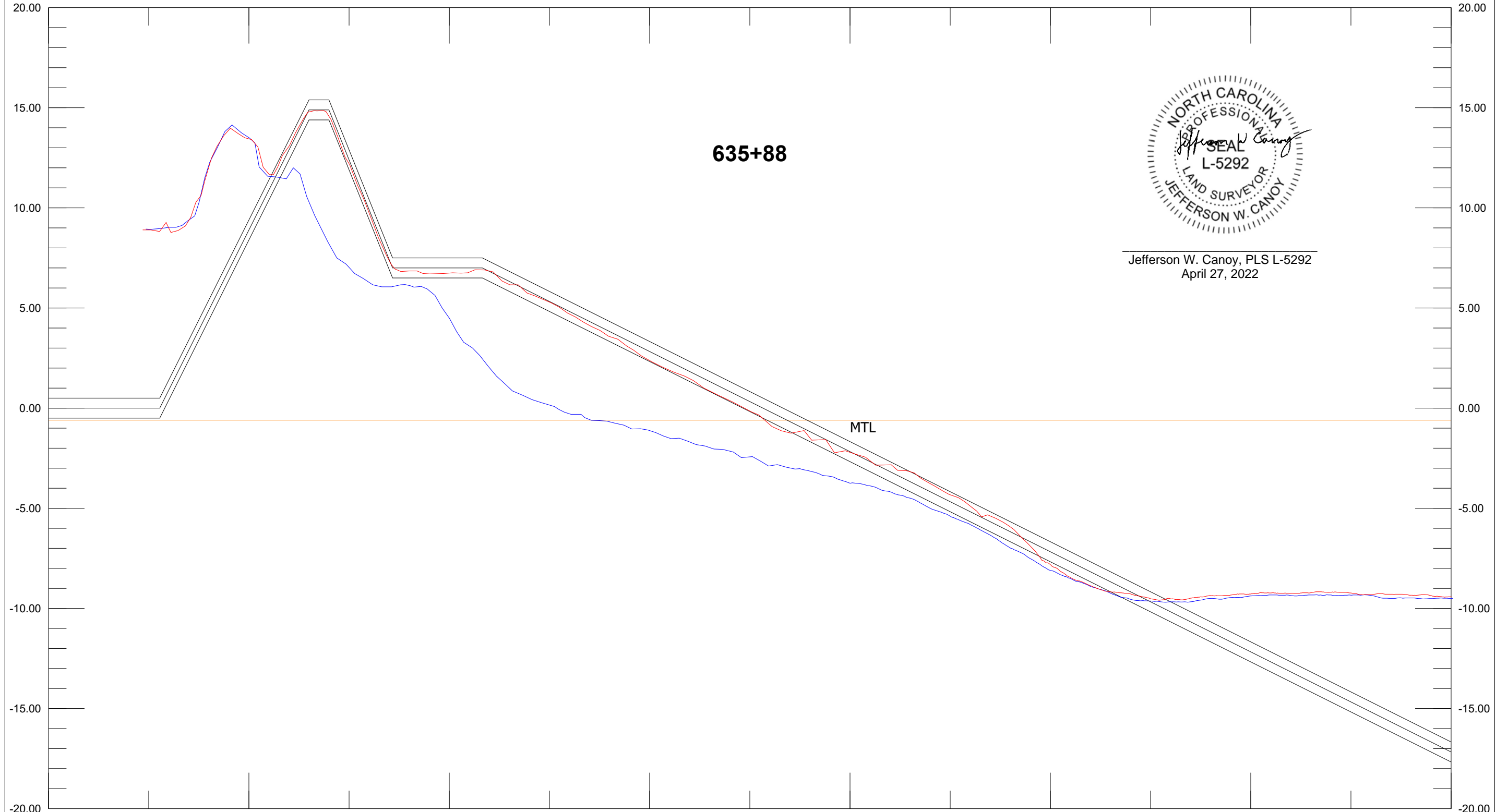
X: 2238368.40 635+00 Length: 1750.00 Azimuth: 176.53 X: 2238474.22
Y: 60695.70 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
635+00 635+00 Depth 5.00 Ft:In

X: 2238290.55 635+88 Length: 1749.99 Azimuth: 176.53 X: 2238396.41
Y: 60688.95 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



635+88



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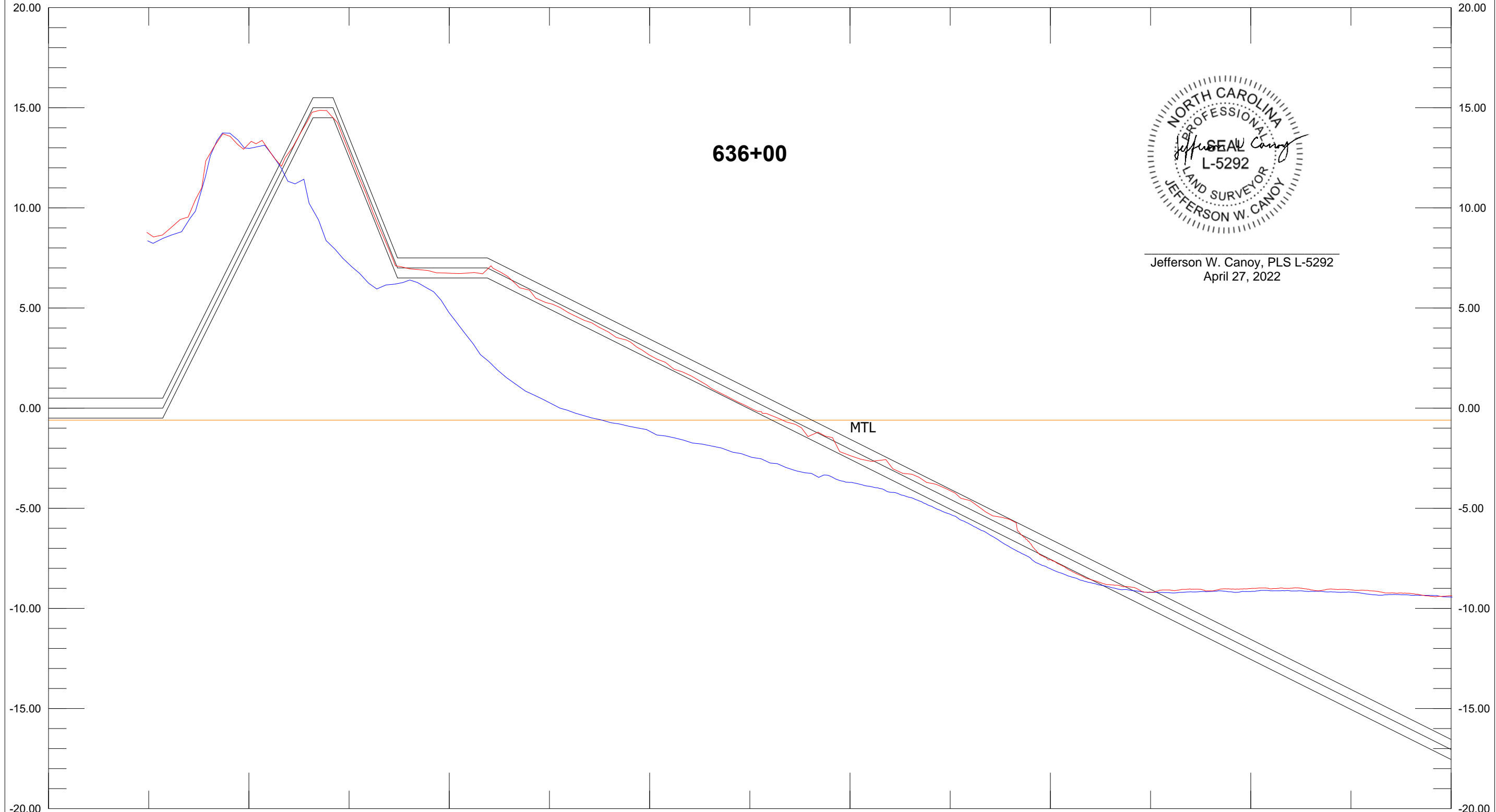
Base Survey
635+88

AD
635+88

Template

DBL 50.00 Ft:In
Depth 5.00 Ft:In

X: 2238268.58 636+00 Length: 1749.99 Azimuth: 176.53 X: 2238374.44
Y: 60689.65 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



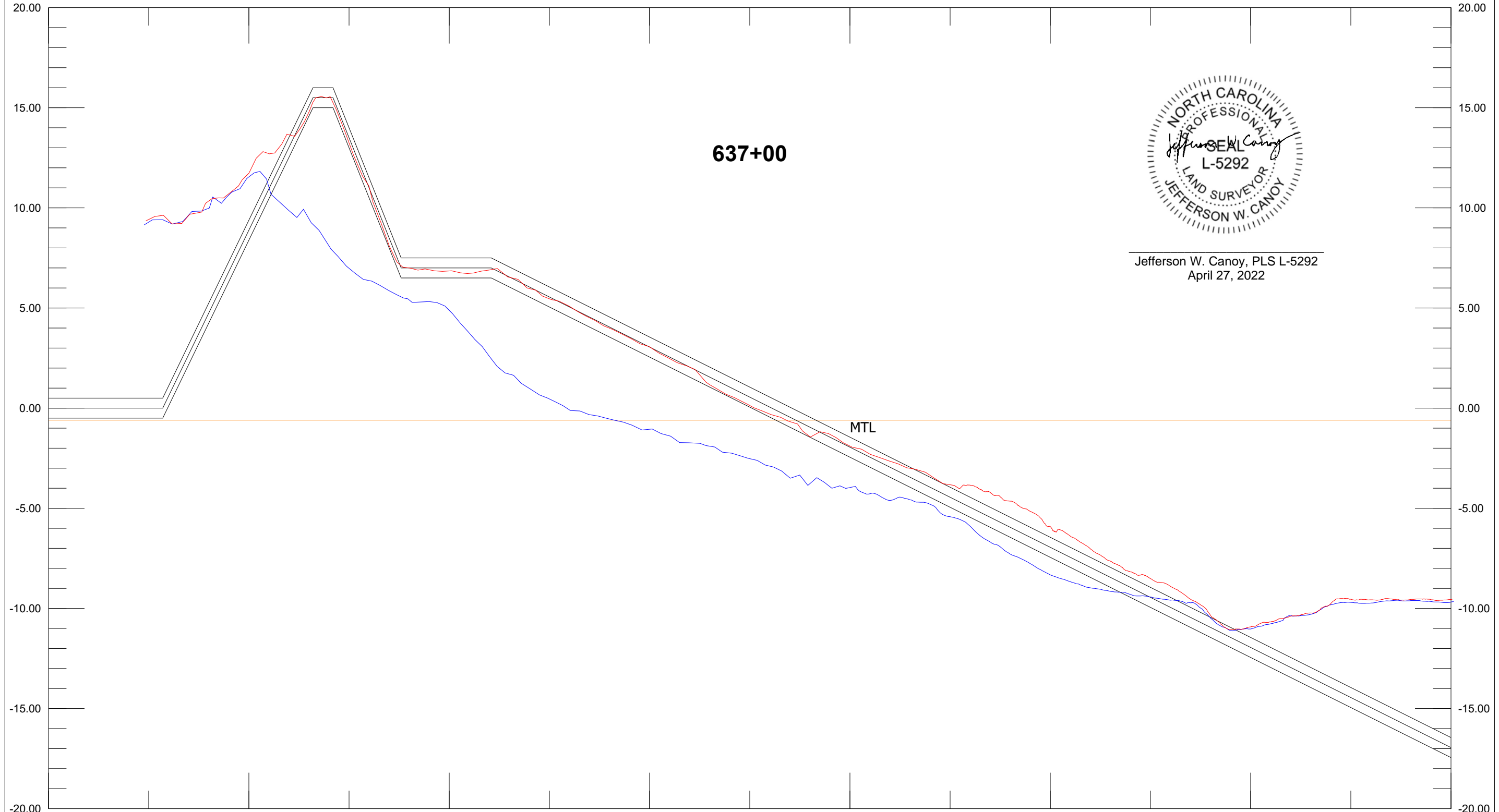
636+00



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Base Survey AD Template DBL 50.00 Ft:In
636+00 636+00 Depth 5.00 Ft:In

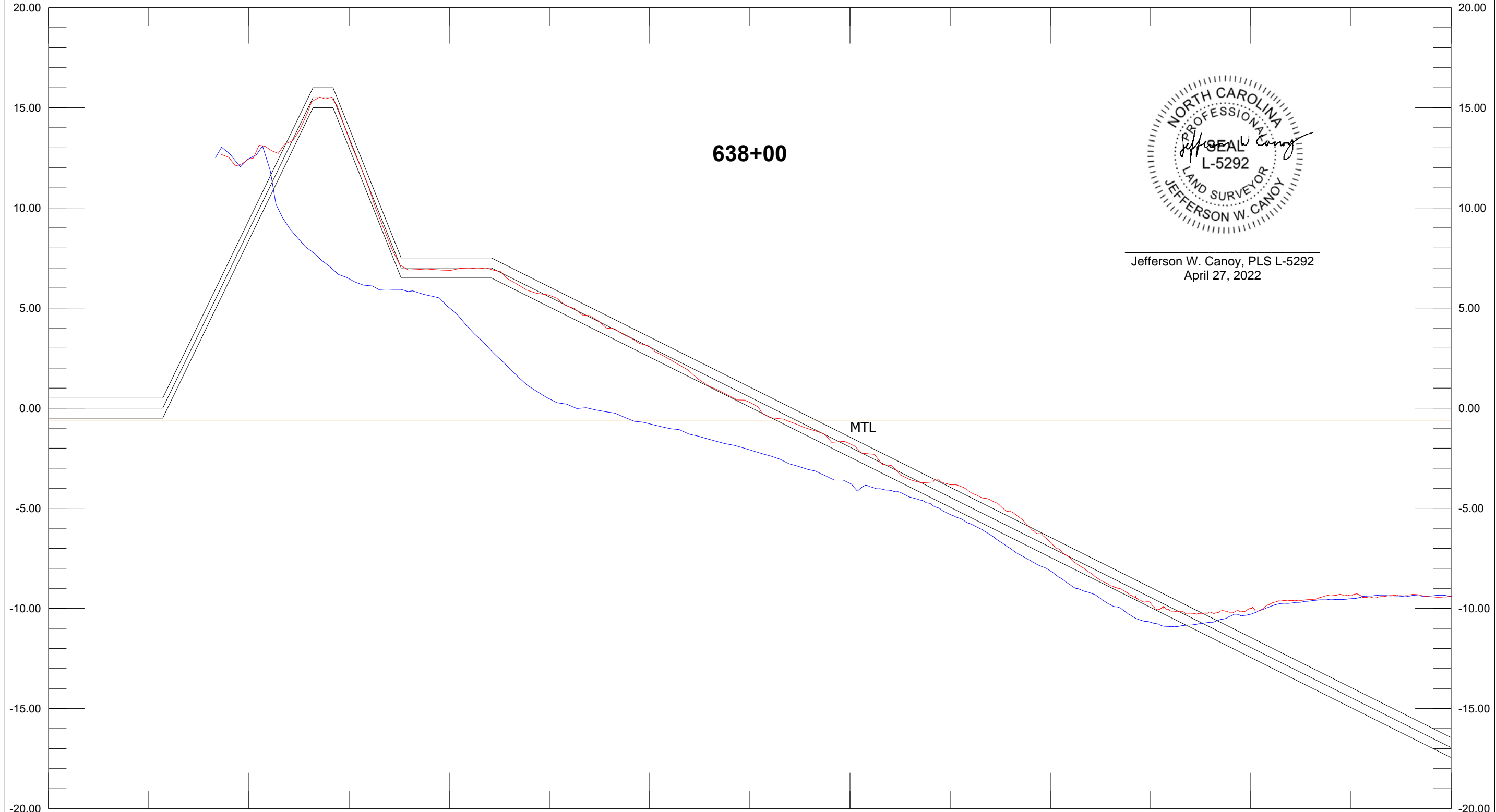
X: 2238168.76 637+00 Length: 1749.99 Azimuth: 176.53 X: 2238274.62
Y: 60683.60 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58936.81



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Base Survey AD Template DBL 50.00 Ft:In
637+00 637+00 Depth 5.00 Ft:In

X: 2238068.95 638+00 Length: 1749.99 Azimuth: 176.53 X: 2238174.80
Y: 60677.55 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58930.76



638+00



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Base Survey
638+00

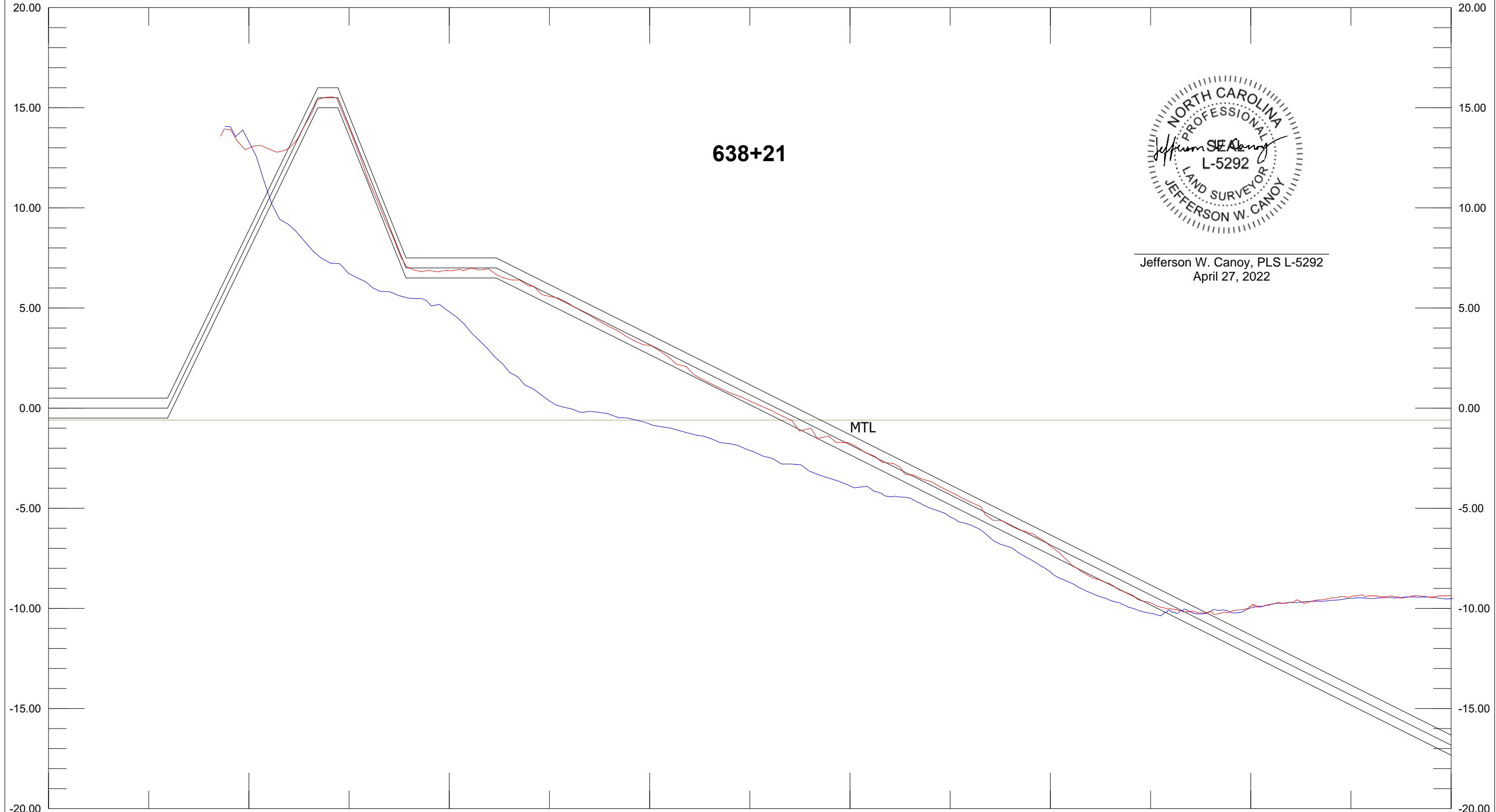
AD
638+00

Template

DBL 50.00 Ft:In
Depth 5.00 Ft:In

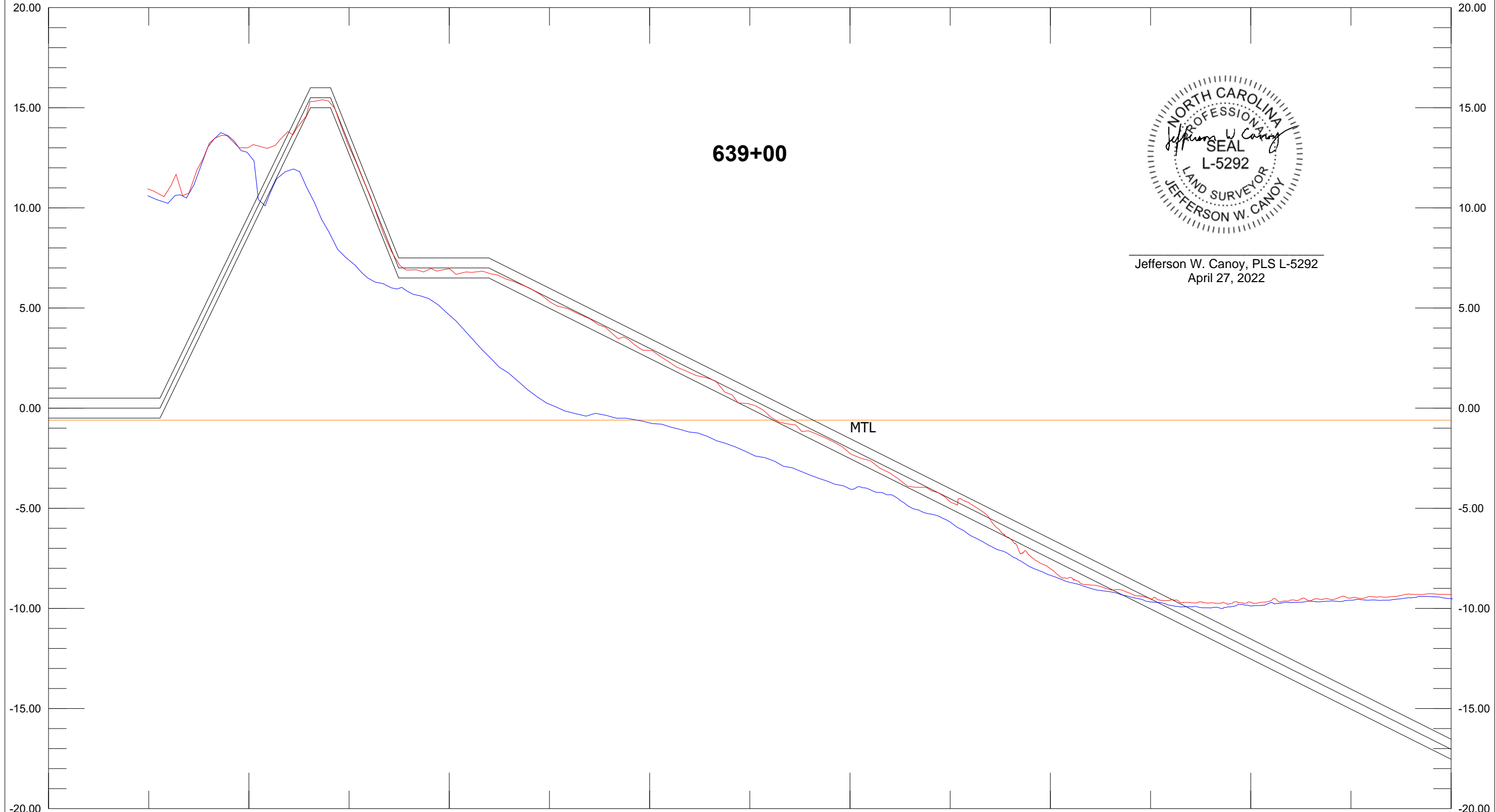
MTL

X: 2238048.54 638+21 Length: 1749.99 Azimuth: 176.53 X: 2238154.39
Y: 60678.73 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



Base Survey AD Template DBL 50.00 Ft:In
638+21 638+21

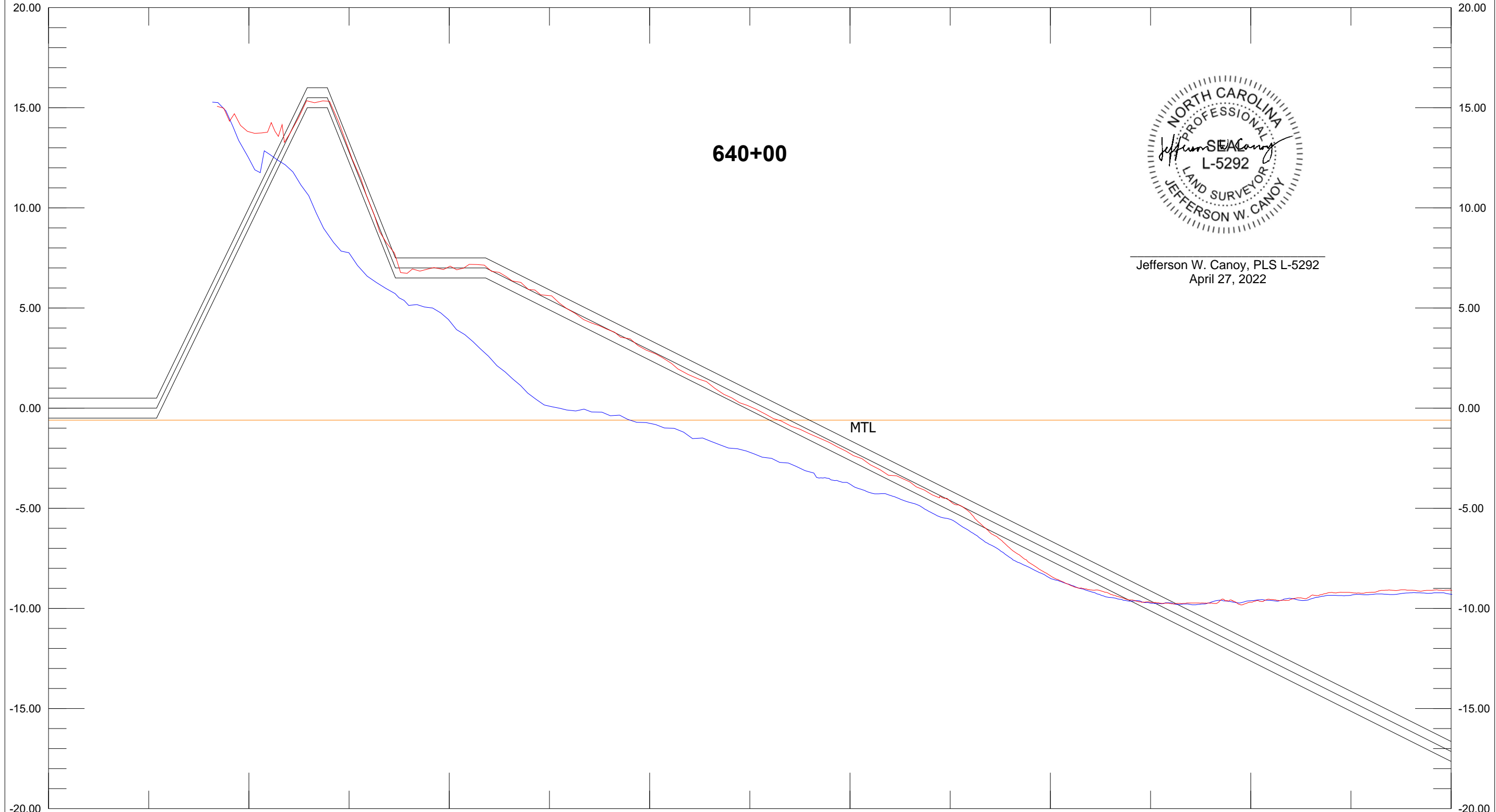
X: 2237961.46 639+00 Length: 1750.00 Azimuth: 174.73 X: 2238122.33
Y: 60668.43 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58925.84



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Base Survey AD Template DBL 50.00 Ft:In
639+00 639+00 Depth 5.00 Ft:In

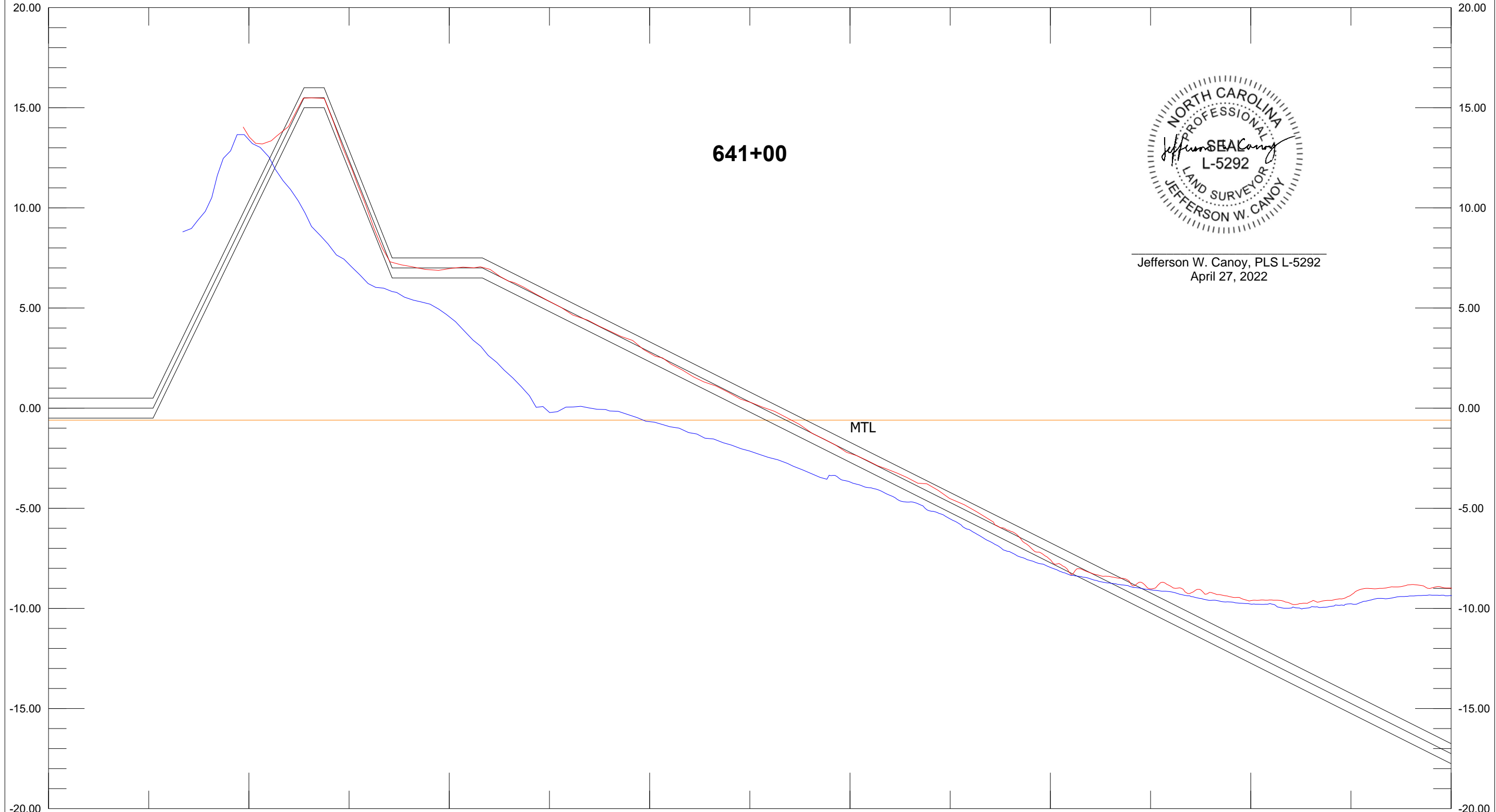
X: 2237861.88 640+00 Length: 1750.00 Azimuth: 174.73 X: 2238022.75
Y: 60659.23 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
640+00 640+00 Depth 5.00 Ft:In

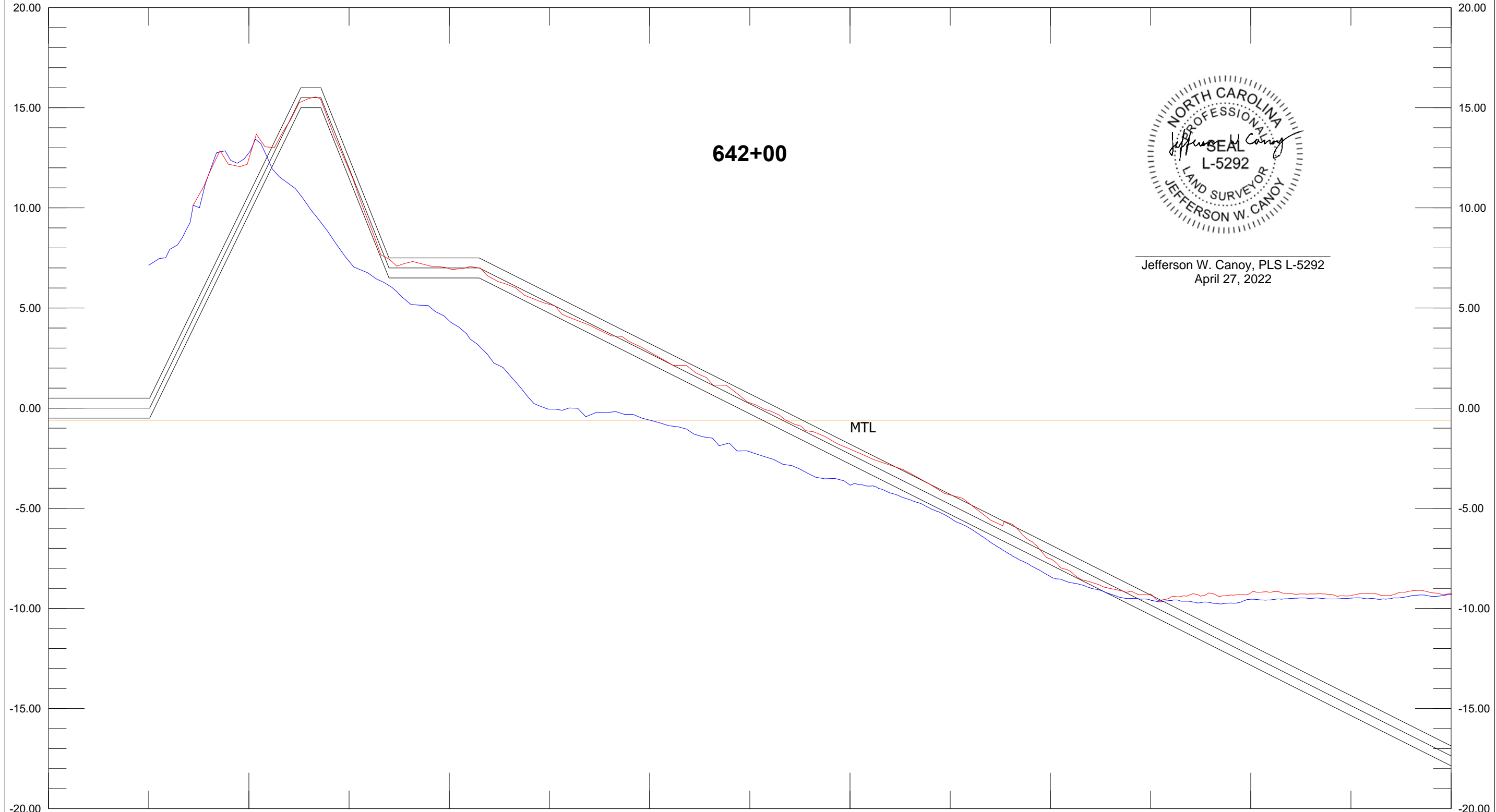
X: 2237762.31 641+00 Length: 1750.00 Azimuth: 174.73 X: 2237923.17
Y: 60650.04 Y: 58907.45
100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



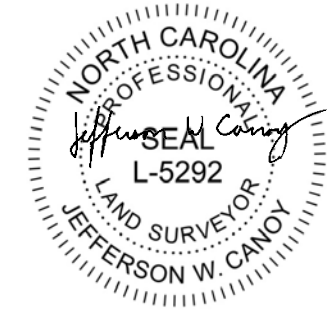
Jefferson W. Canoy, PLS L-5292
April 27, 2022

Base Survey AD Template DBL 50.00 Ft:In
641+00 641+00 Depth 5.00 Ft:In

X: 2237662.73 642+00 Length: 1750.00 Azimuth: 174.73 X: 2237823.60
Y: 60640.85 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



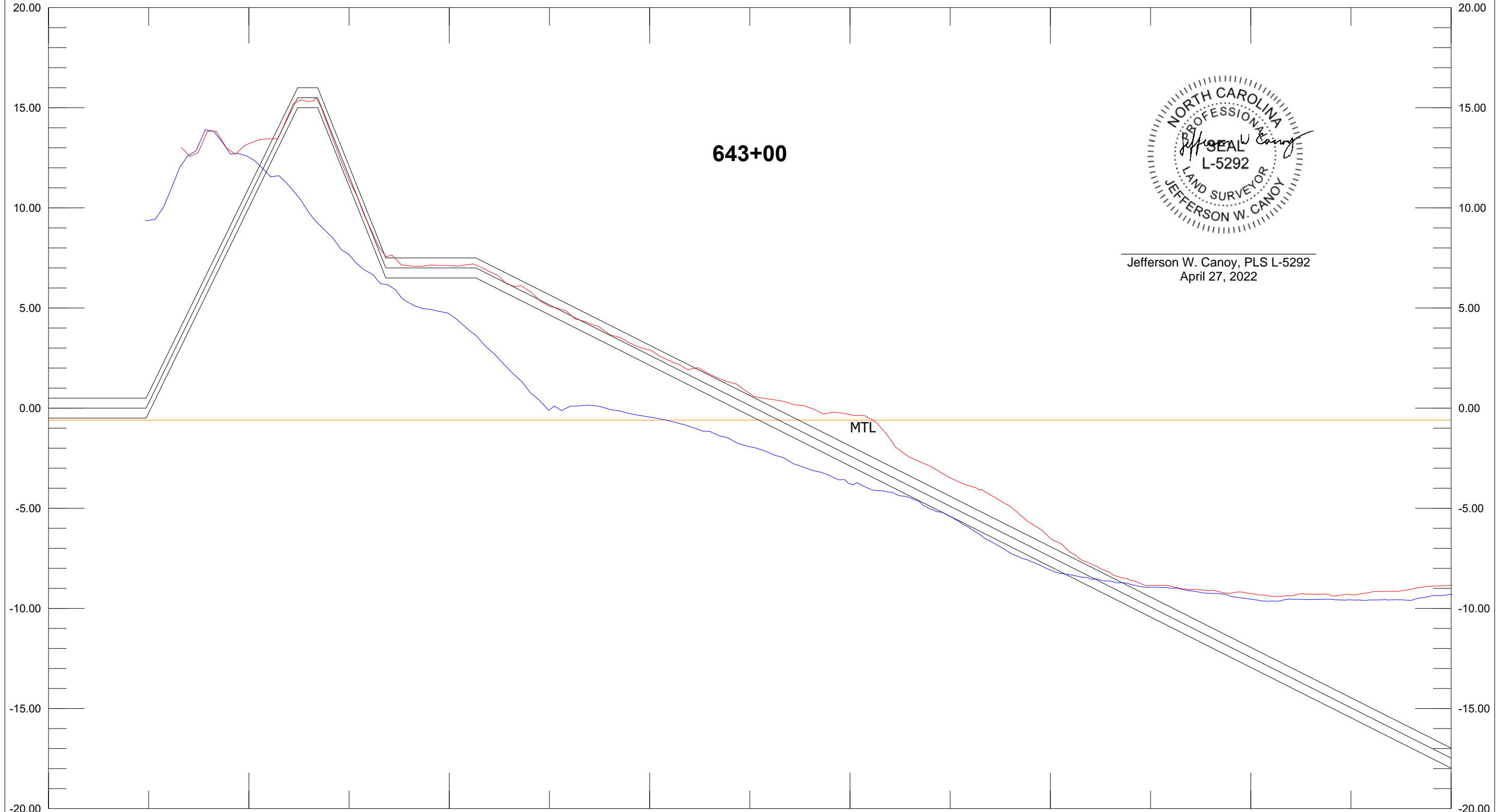
642+00



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Base Survey AD Template DBL 50.00 Ft:In
642+00 642+00 Depth 5.00 Ft:In

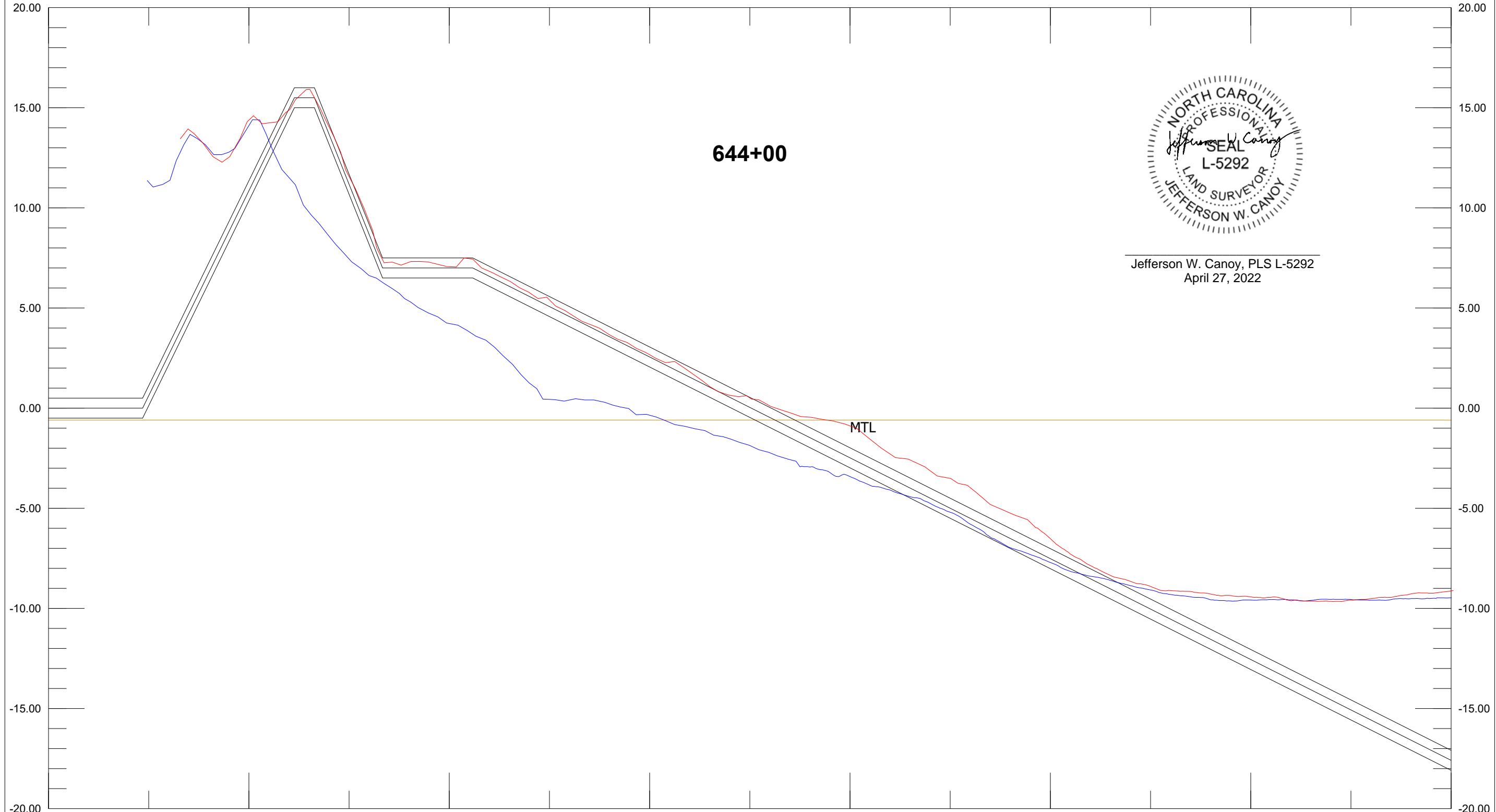
X: 2237563.15 643+00 Length: 1750.00 Azimuth: 174.73 X: 2237724.02
Y: 60631.66 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
643+00 643+00 Depth 5.00 Ft:In

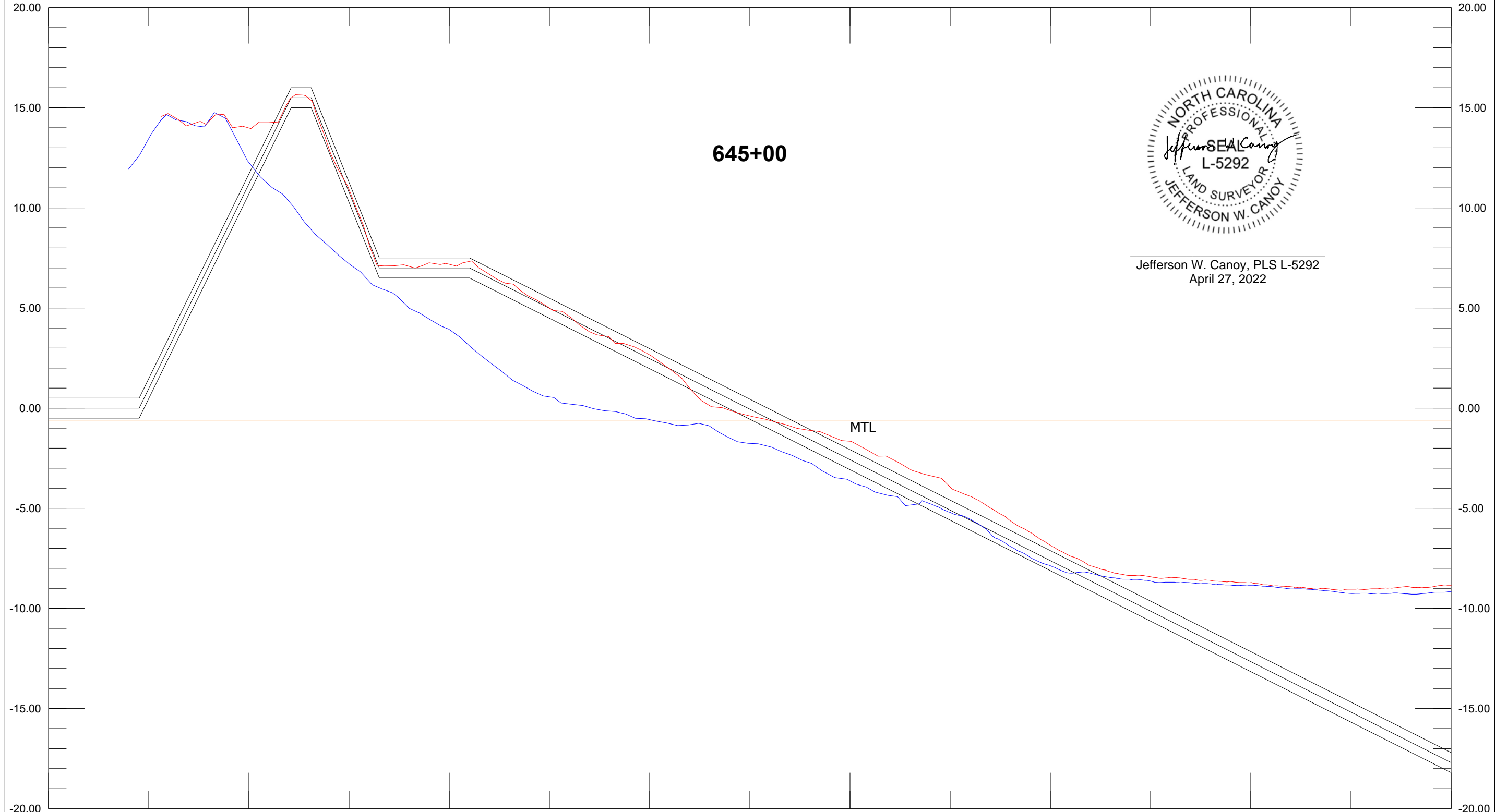
X: 2237463.58 644+00 Length: 1750.00 Azimuth: 174.73 X: 2237624.44
Y: 60622.46 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
644+00 644+00 Depth 5.00 Ft:In

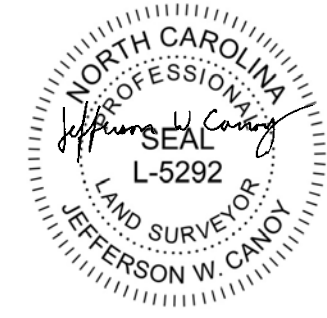
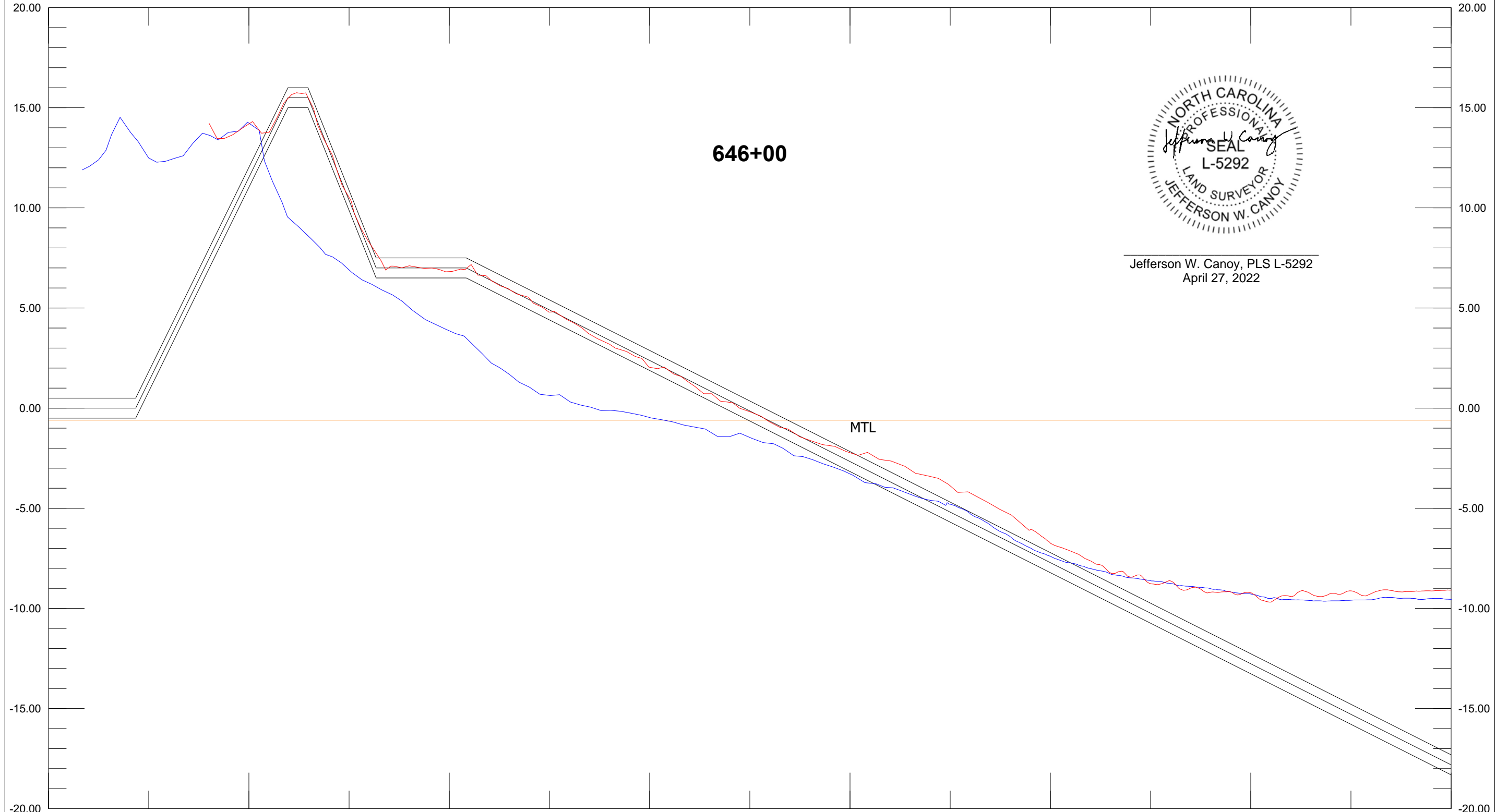
X: 2237364.00 645+00 Length: 1750.00 Azimuth: 174.73 X: 2237524.87
Y: 60613.27 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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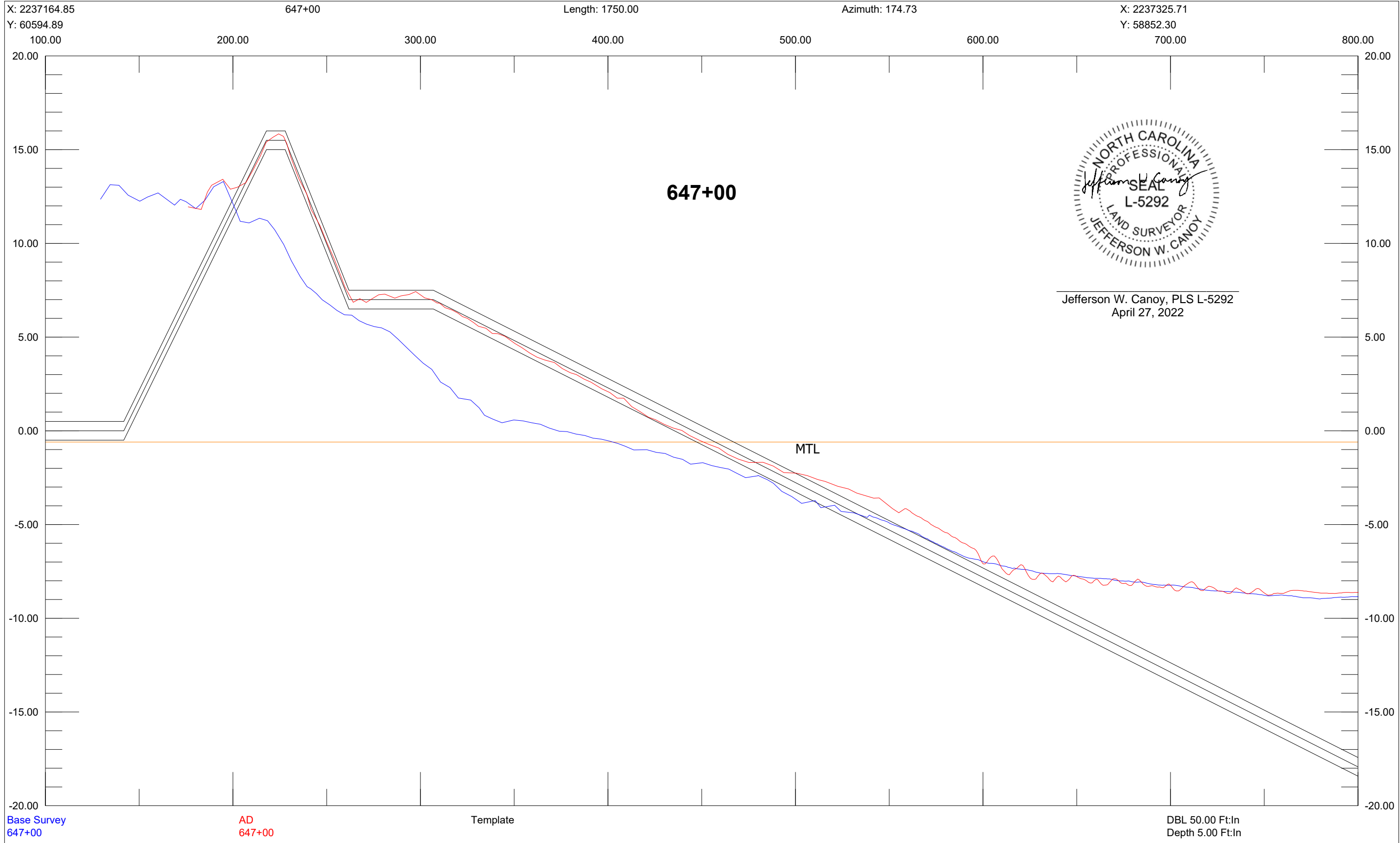
Base Survey AD Template DBL 50.00 Ft:In
645+00 645+00 Depth 5.00 Ft:In

X: 2237264.42 646+00 Length: 1750.00 Azimuth: 174.73 X: 2237425.29
Y: 60604.08 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00

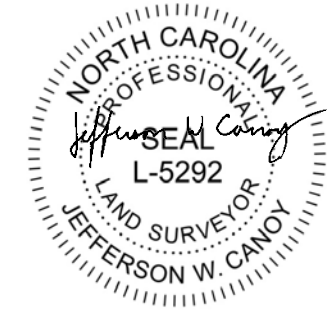
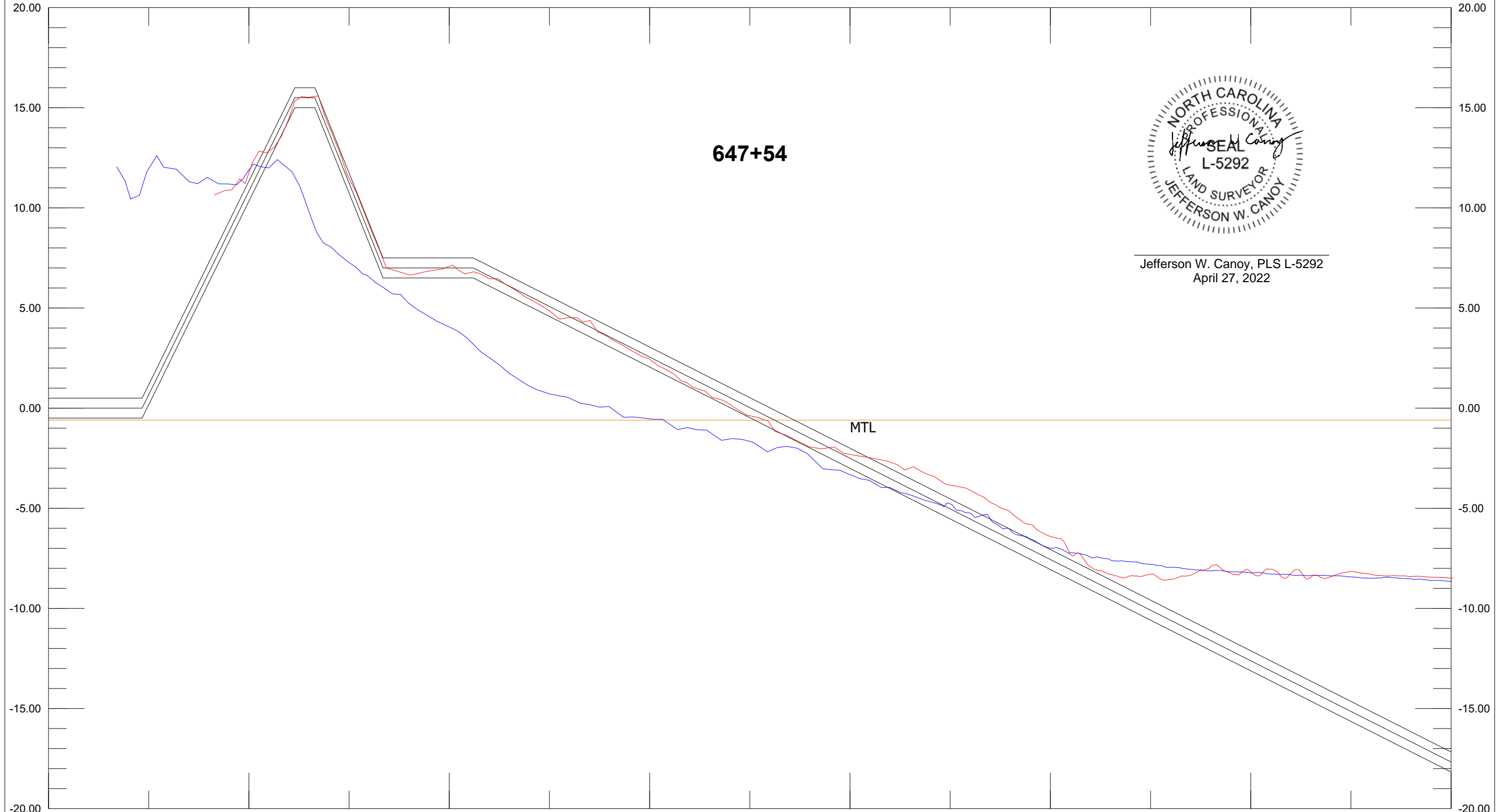


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Base Survey AD Template DBL 50.00 Ft:In
646+00 646+00 Depth 5.00 Ft:In



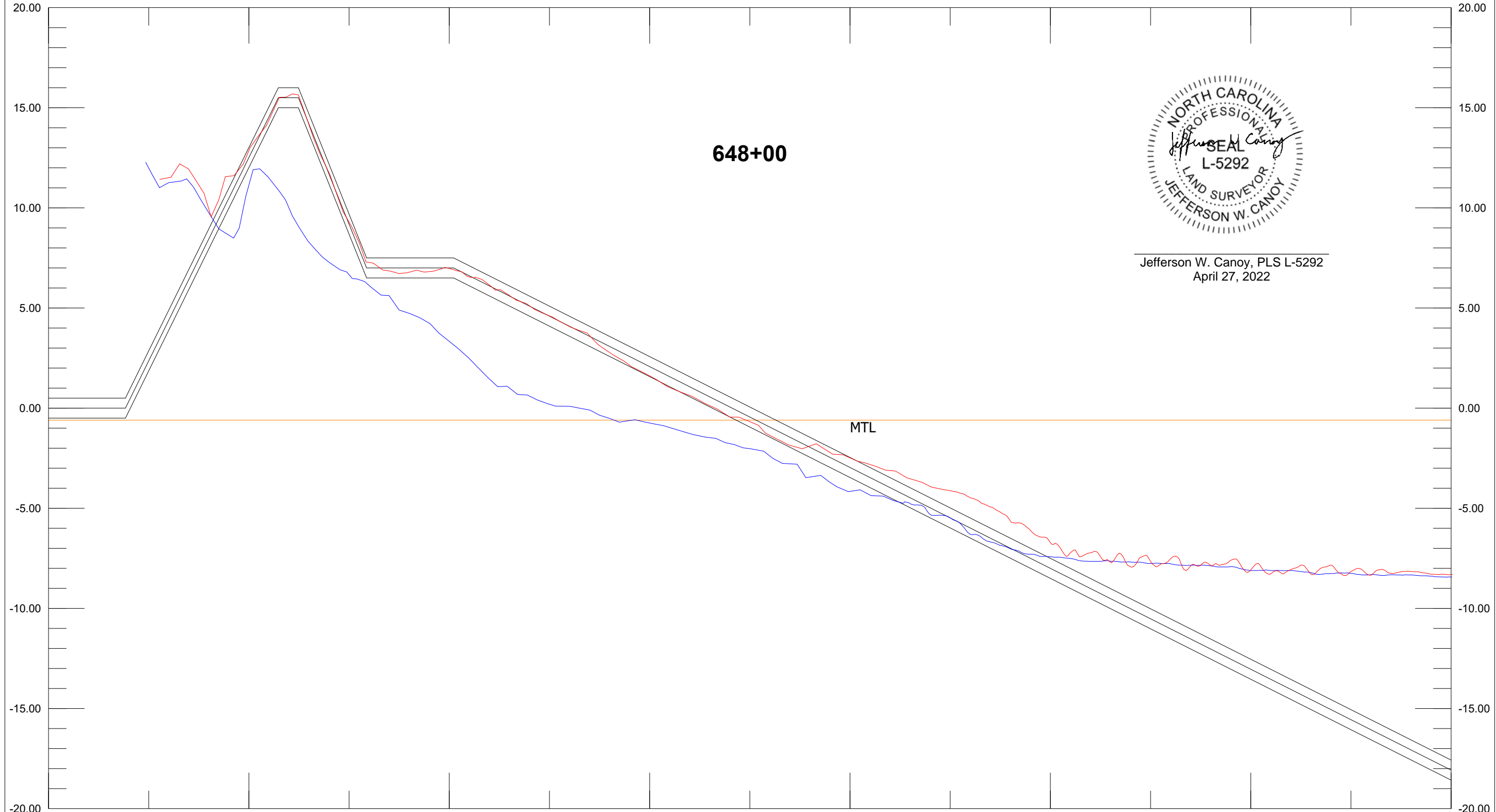
X: 2237105.58 647+54 Length: 1750.00 Azimuth: 173.66 X: 2237298.76
Y: 60595.34 Y: 58856.04
100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



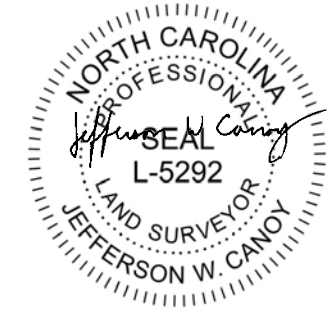
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Base Survey AD Template DBL 50.00 Ft:In
647+54 647+54 Depth 5.00 Ft:In

X: 2237060.73 648+00 Length: 1750.00 Azimuth: 173.66 X: 2237253.91
Y: 60584.39 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



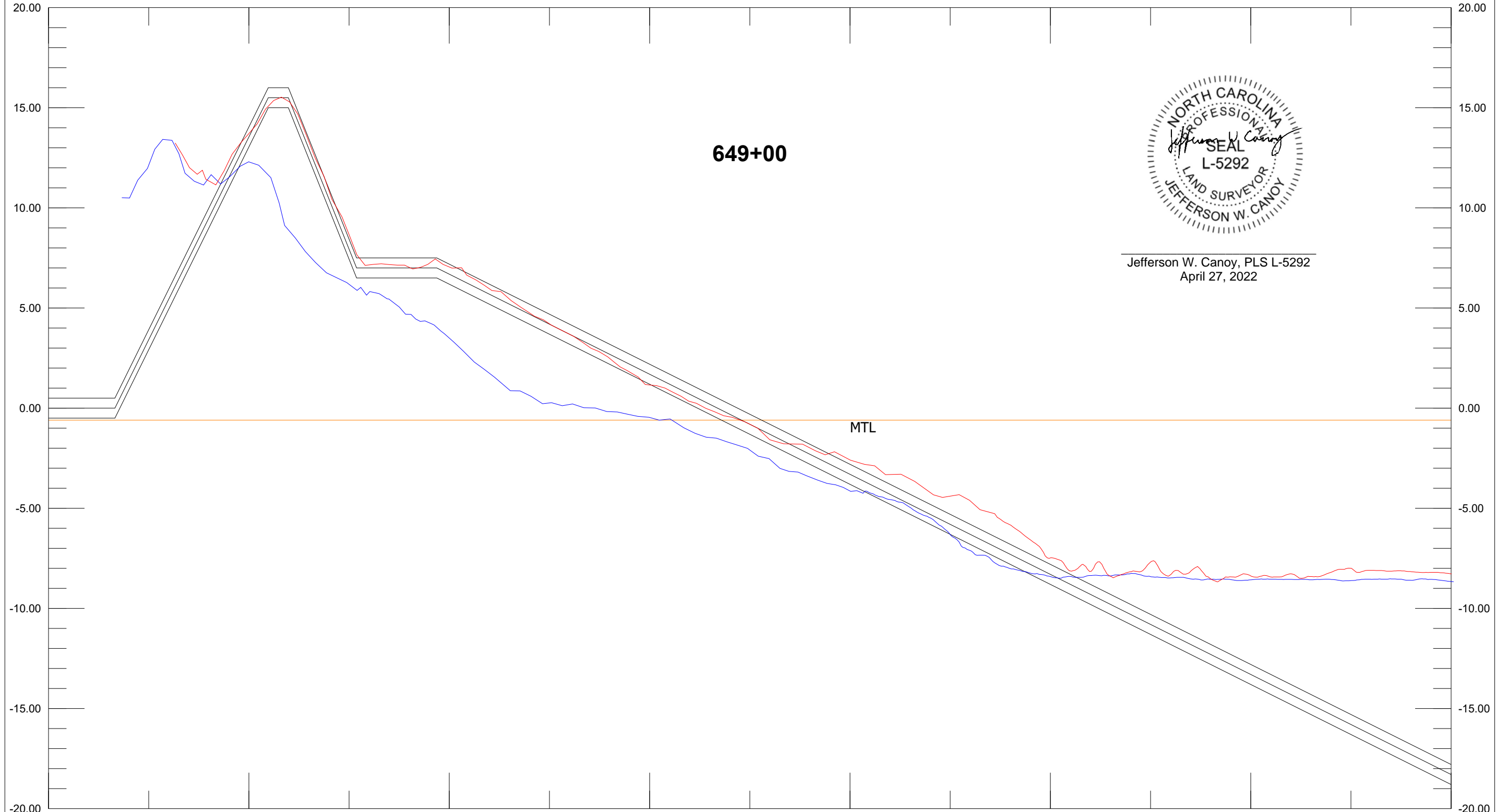
648+00



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Base Survey AD Template DBL 50.00 Ft:In
648+00 648+00 Depth 5.00 Ft:In

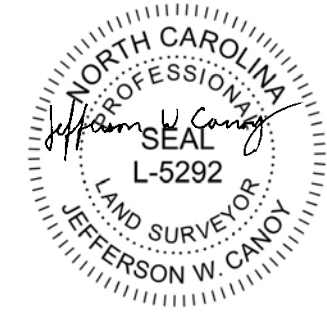
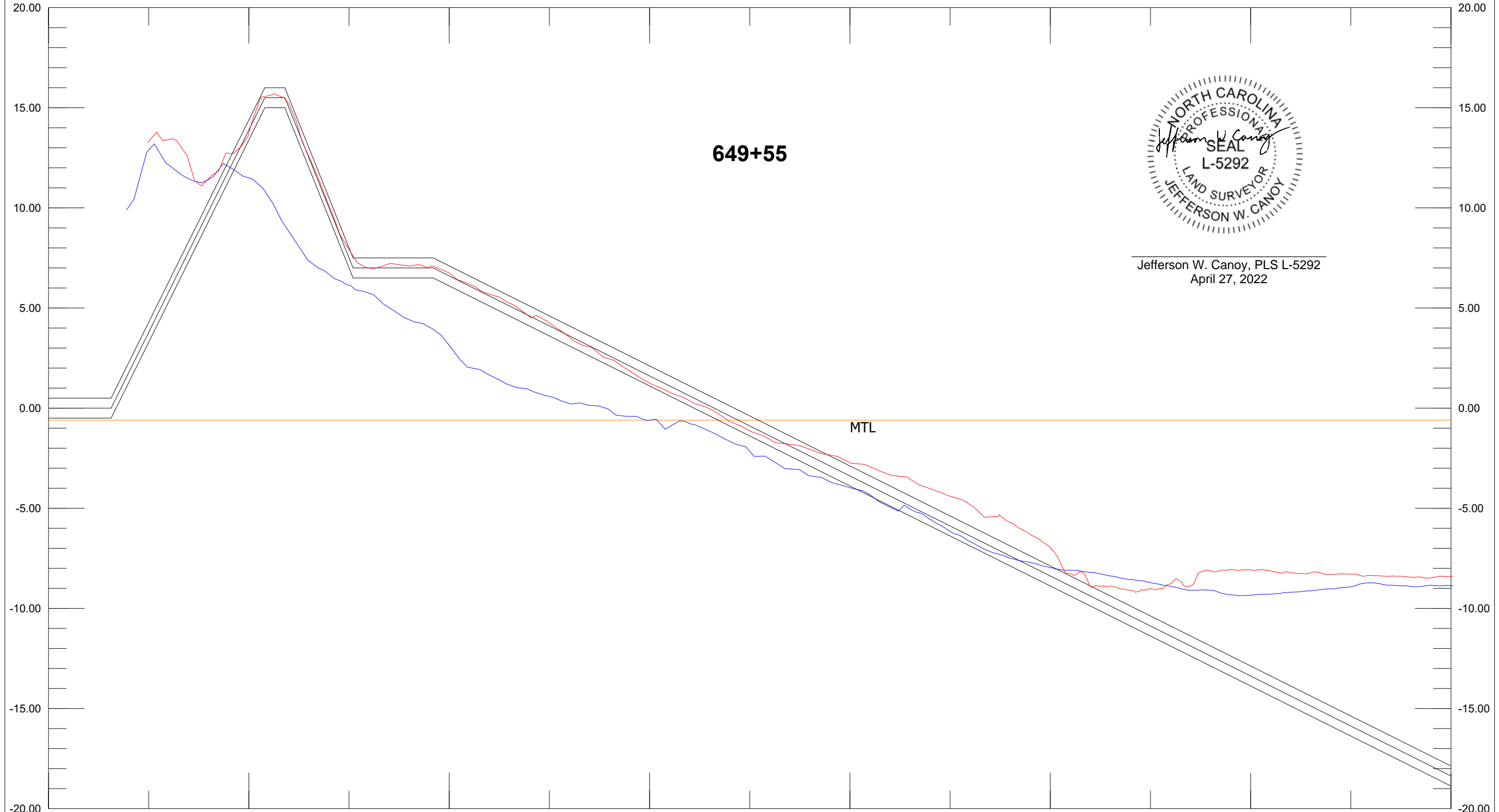
X: 2236961.36 649+00 Length: 1750.00 Azimuth: 173.66 X: 2237154.52
Y: 60573.36 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58834.05



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Base Survey AD Template DBL 50.00 Ft:In
649+00 649+00 Depth 5.00 Ft:In

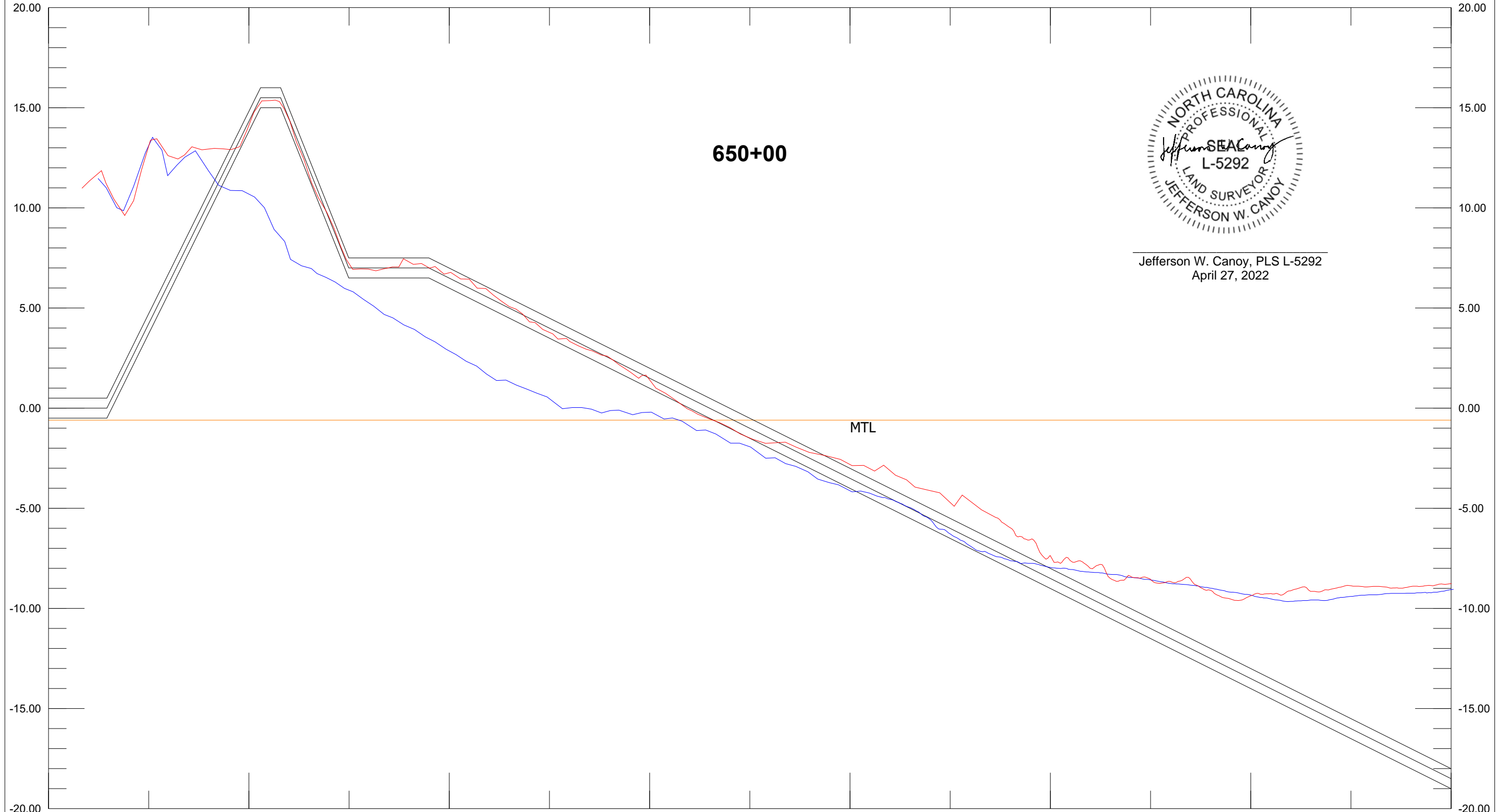
X: 2236907.47 649+55 Length: 1750.01 Azimuth: 173.90 X: 2237093.52
Y: 60568.41 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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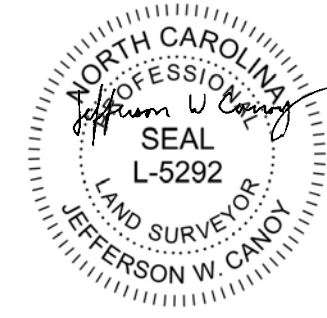
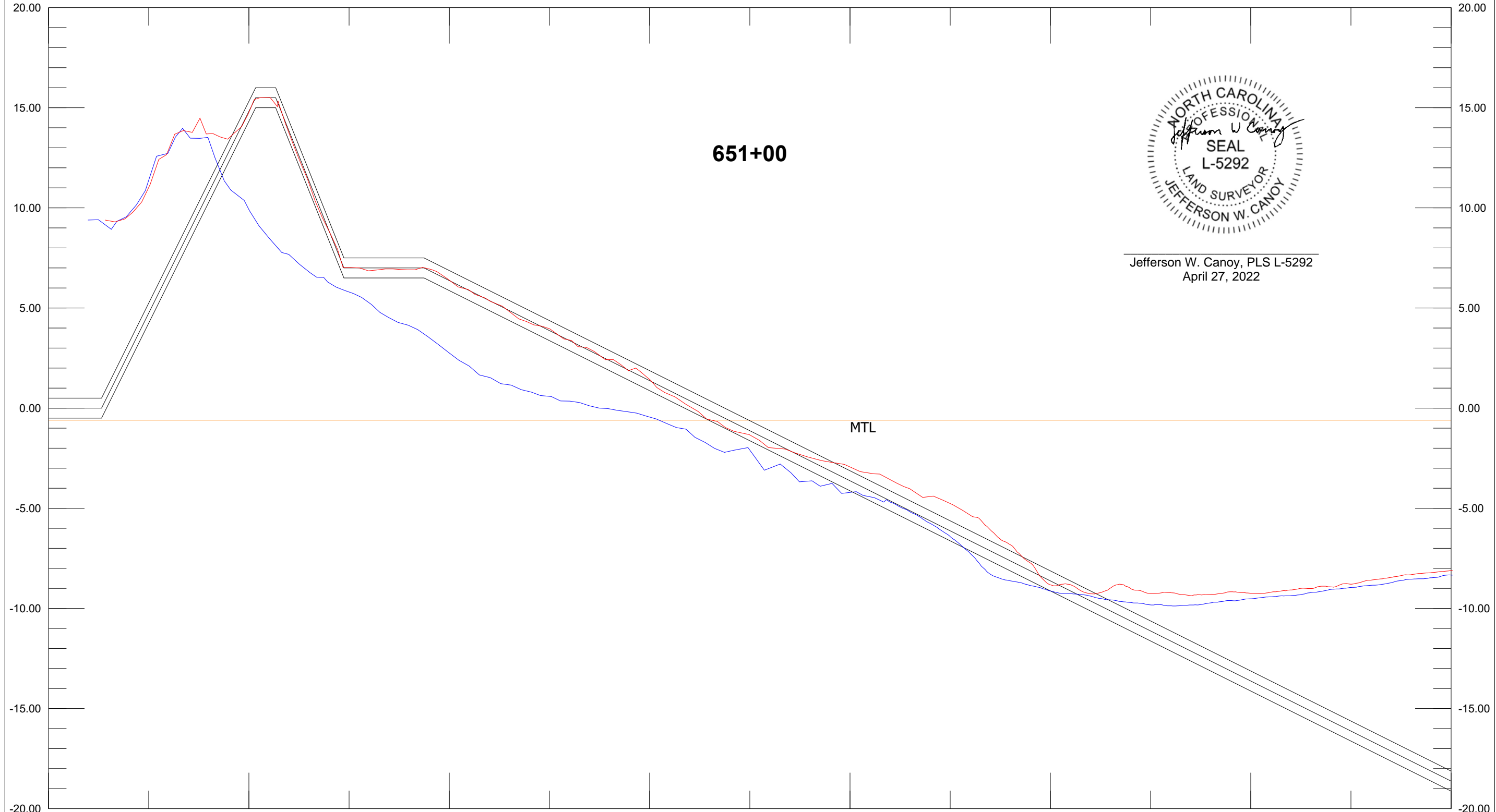
Base Survey AD Template DBL 50.00 Ft:In
649+55 649+55 Depth 5.00 Ft:In

X: 2236868.26 650+00 Length: 1750.00 Azimuth: 175.14 X: 2237016.62
Y: 60564.07 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58820.37



Base Survey AD Template DBL 50.00 Ft:In
650+00 650+00 Depth 5.00 Ft:In

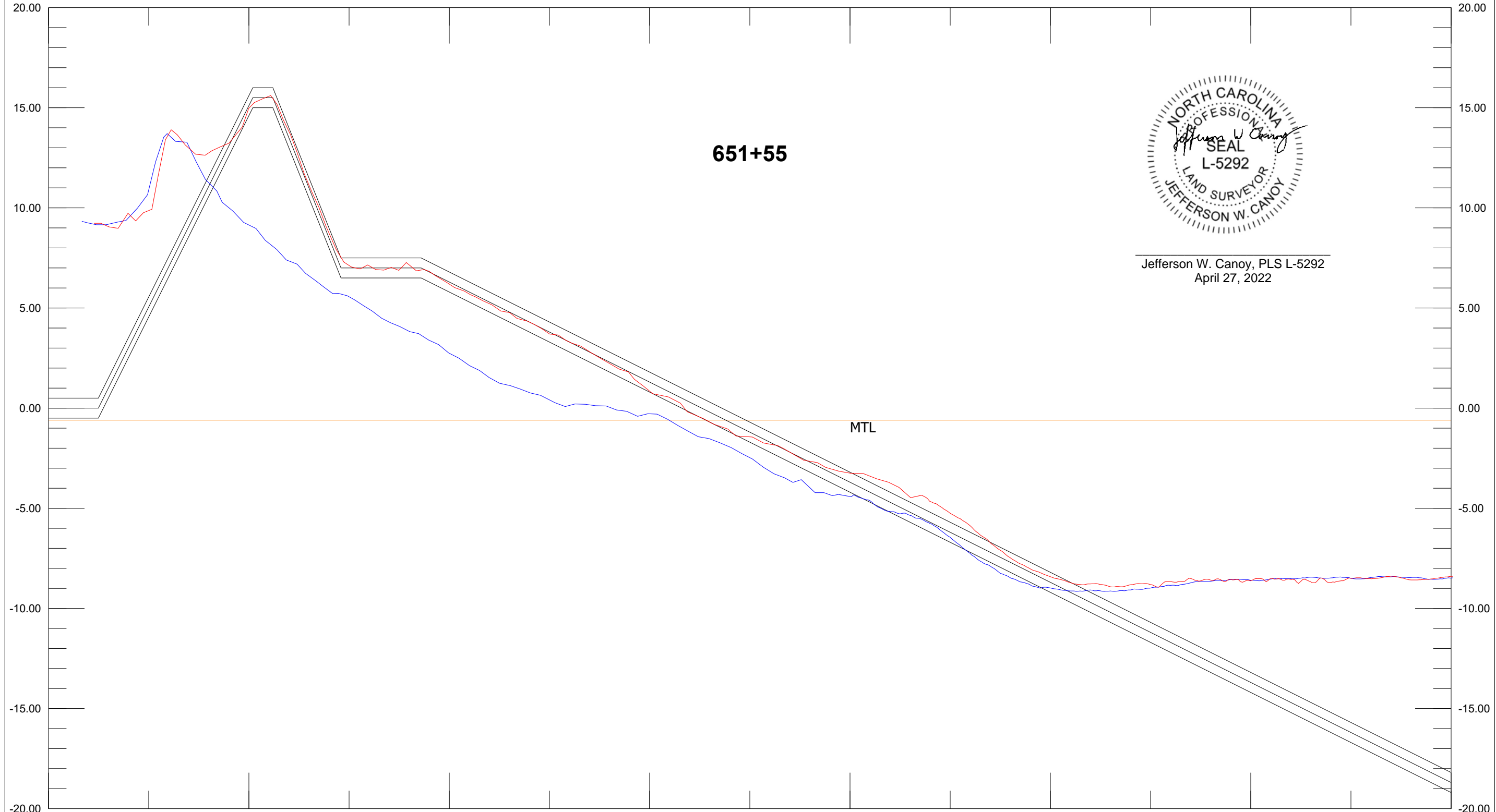
X: 2236768.62 651+00 Length: 1750.00 Azimuth: 175.14 X: 2236916.98
Y: 60555.60 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
651+00 651+00 Depth 5.00 Ft:In

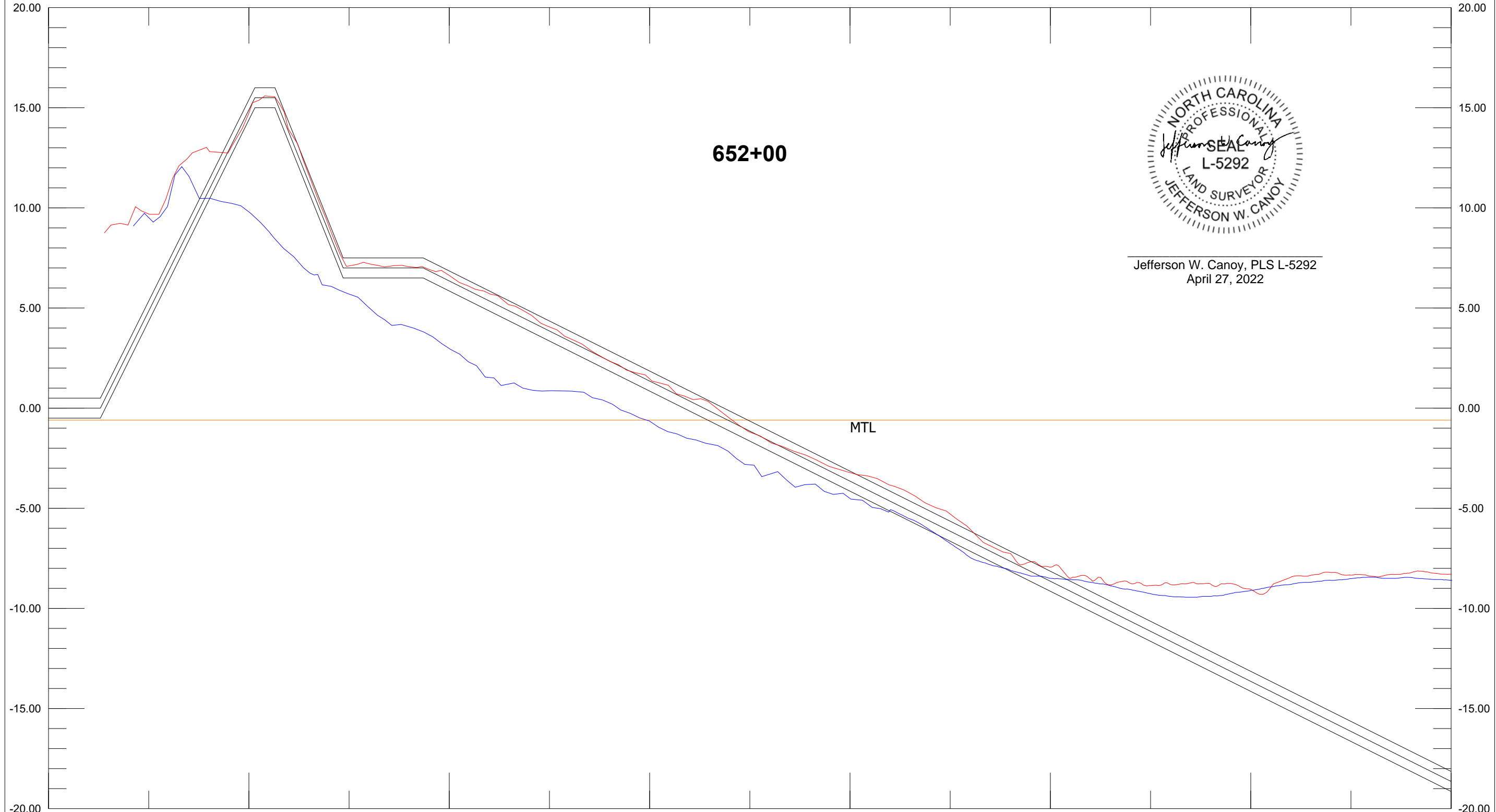
X: 2236711.97 651+55 Length: 1750.00 Azimuth: 175.14 X: 2236860.33
Y: 60550.74 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
651+55 651+55 Depth 5.00 Ft:In

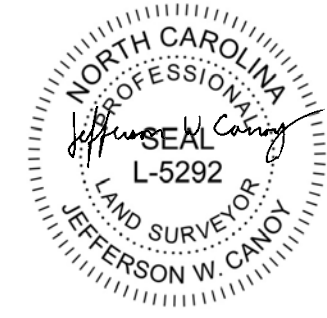
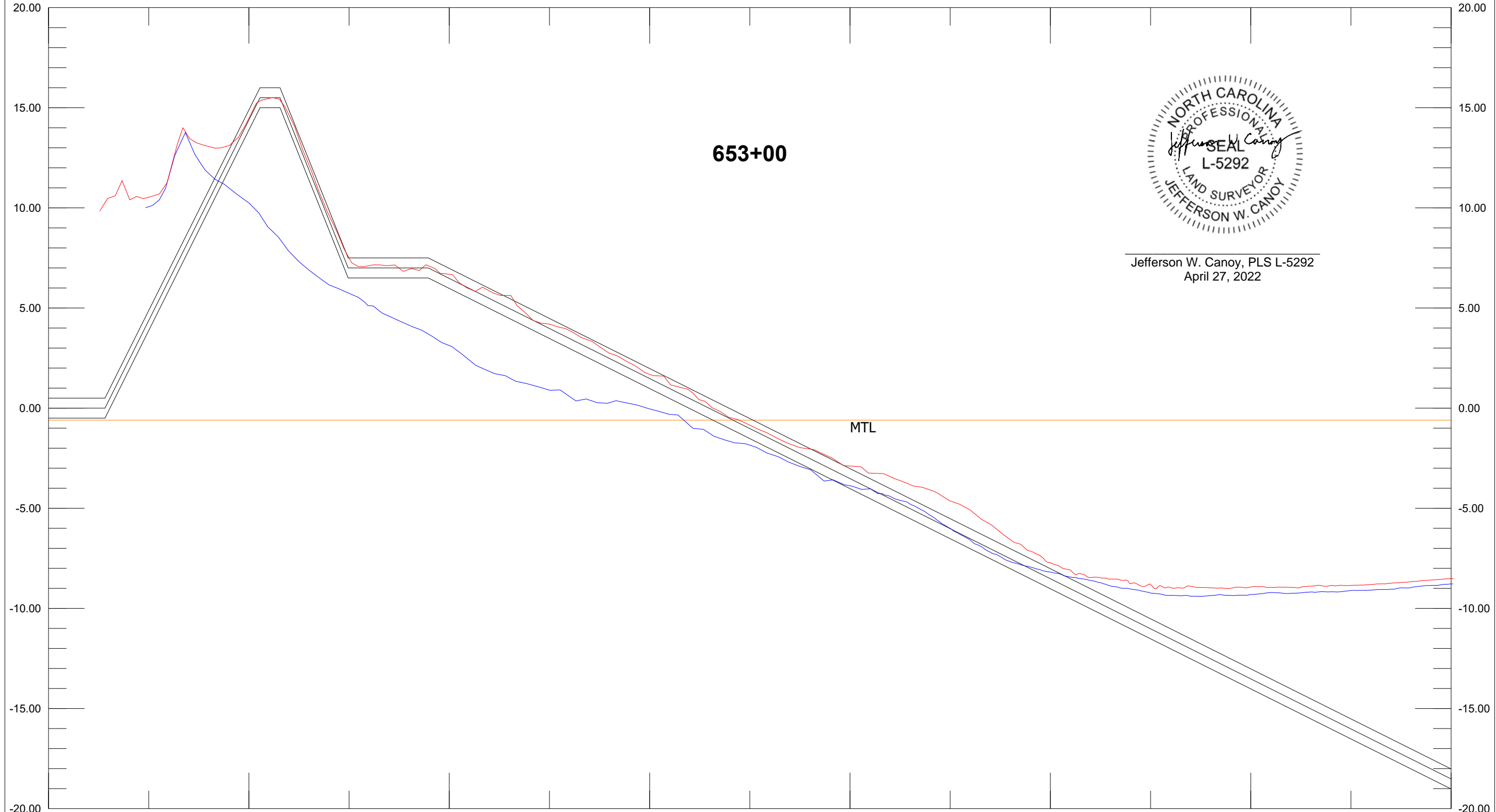
X: 2236681.19 652+00 Length: 1750.00 Azimuth: 177.97 X: 2236743.12
Y: 60549.94 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
652+00 652+00 Depth 5.00 Ft:In

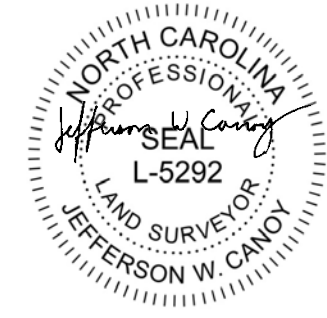
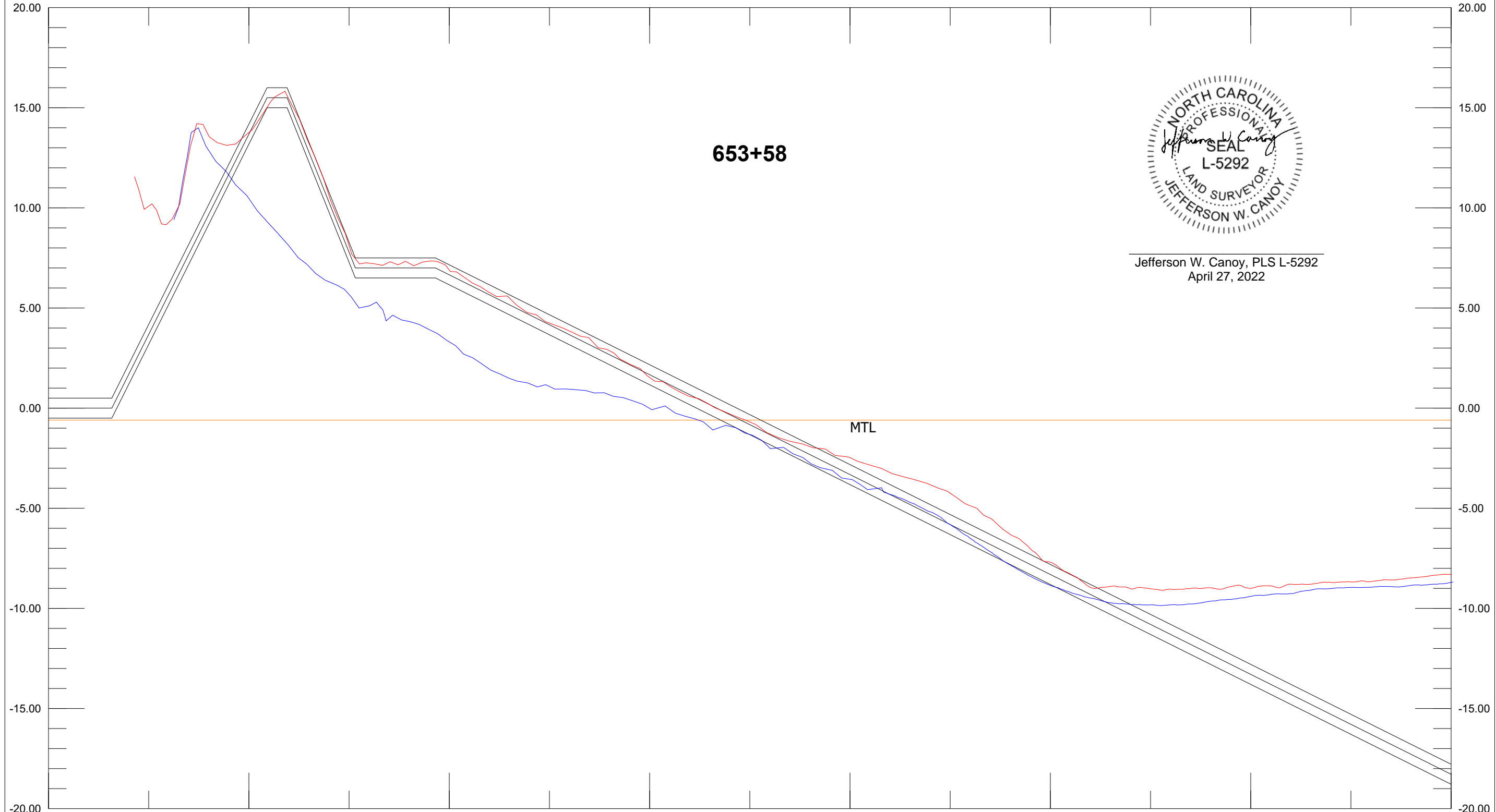
X: 2236581.25 653+00 Length: 1750.00 Azimuth: 177.97 X: 2236643.18
Y: 60546.41 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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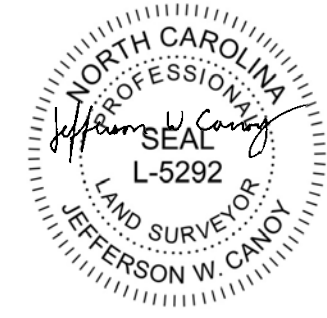
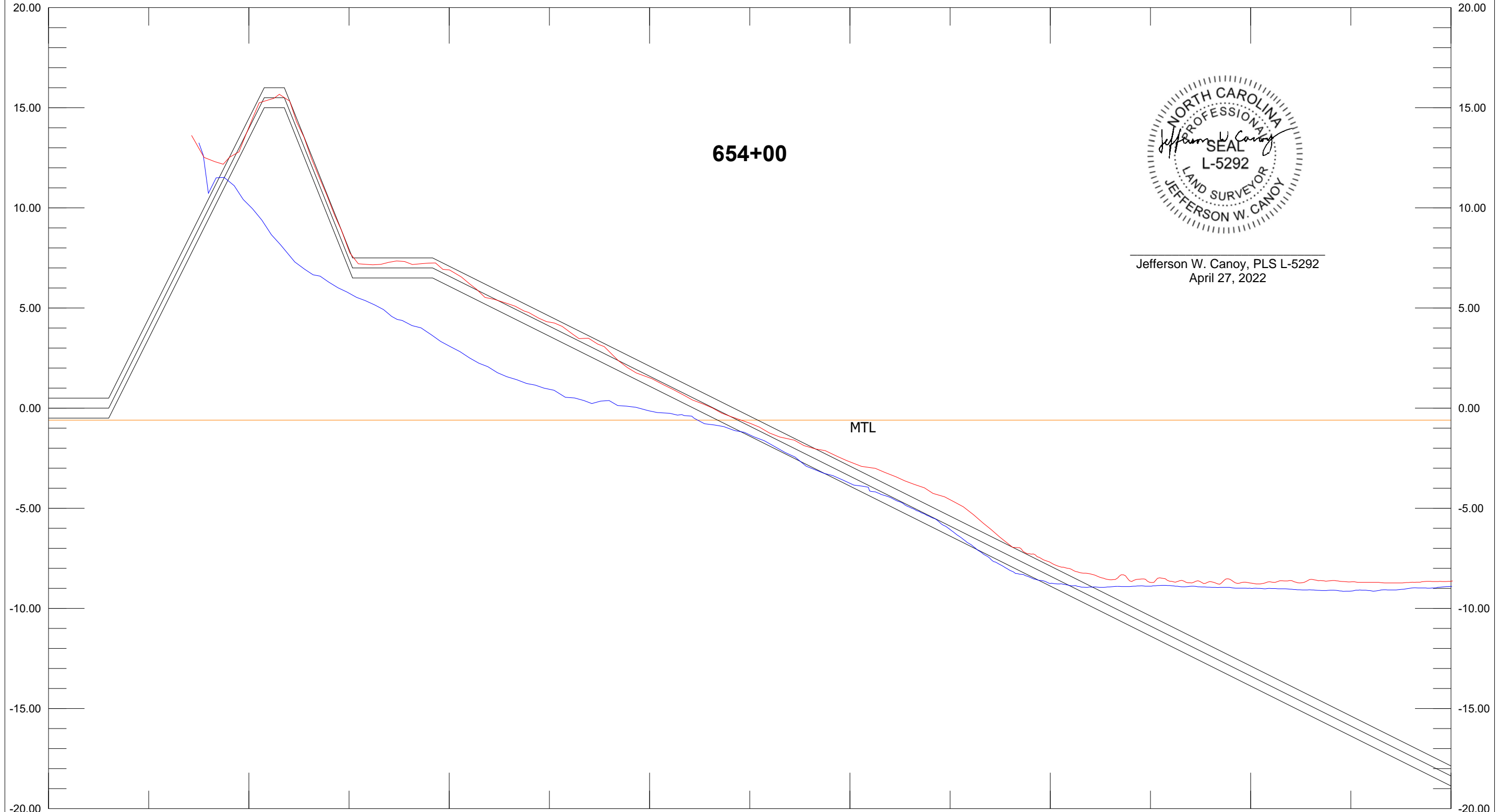
Base Survey AD Template DBL 50.00 Ft:In
653+00 653+00 Depth 5.00 Ft:In

X: 2236516.01 653+58 Length: 1750.00 Azimuth: 176.42 X: 2236625.37
Y: 60546.08 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



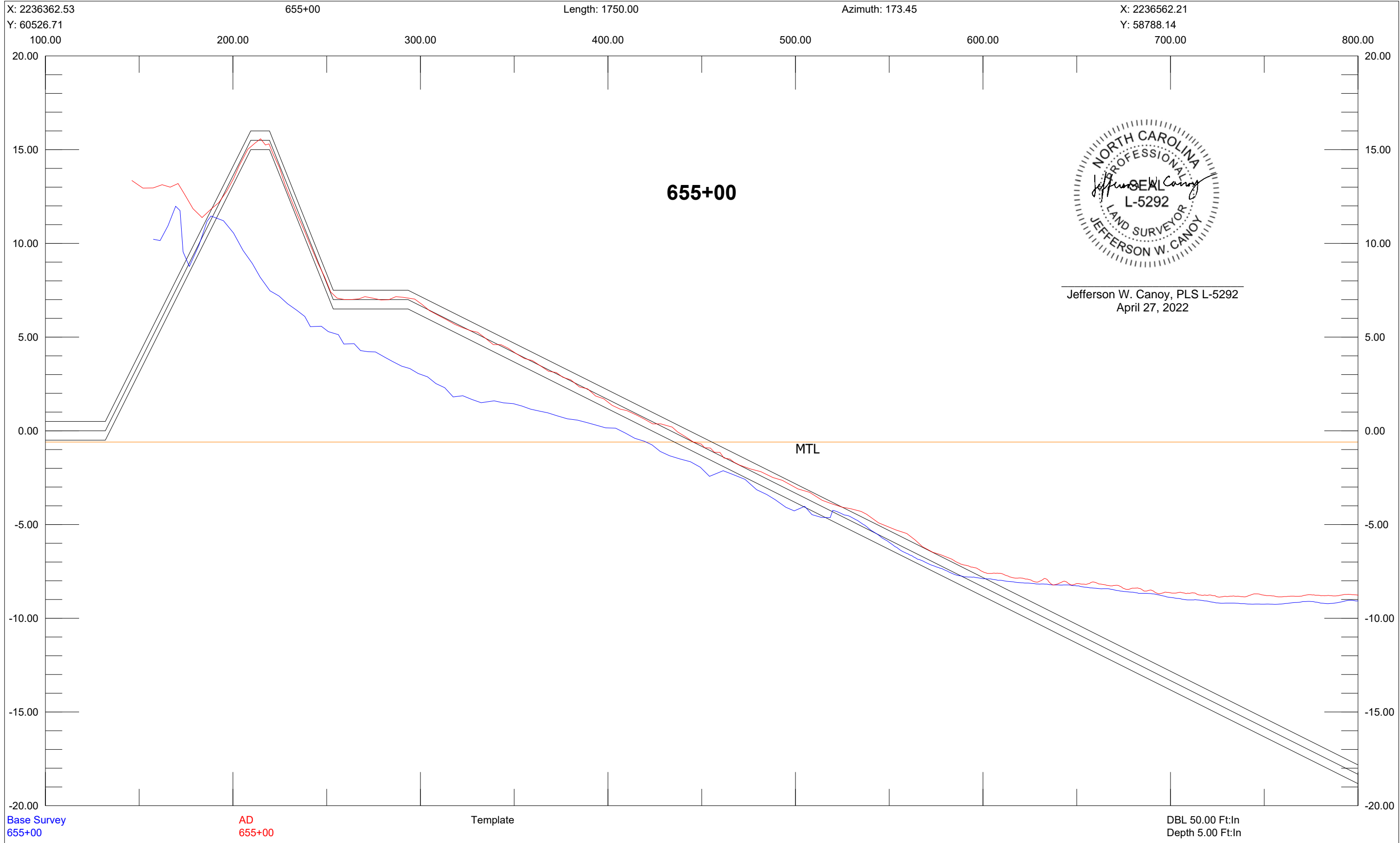
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X: 2236472.67 654+00 Length: 1750.00 Azimuth: 175.93 X: 2236596.81
Y: 60539.12 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00

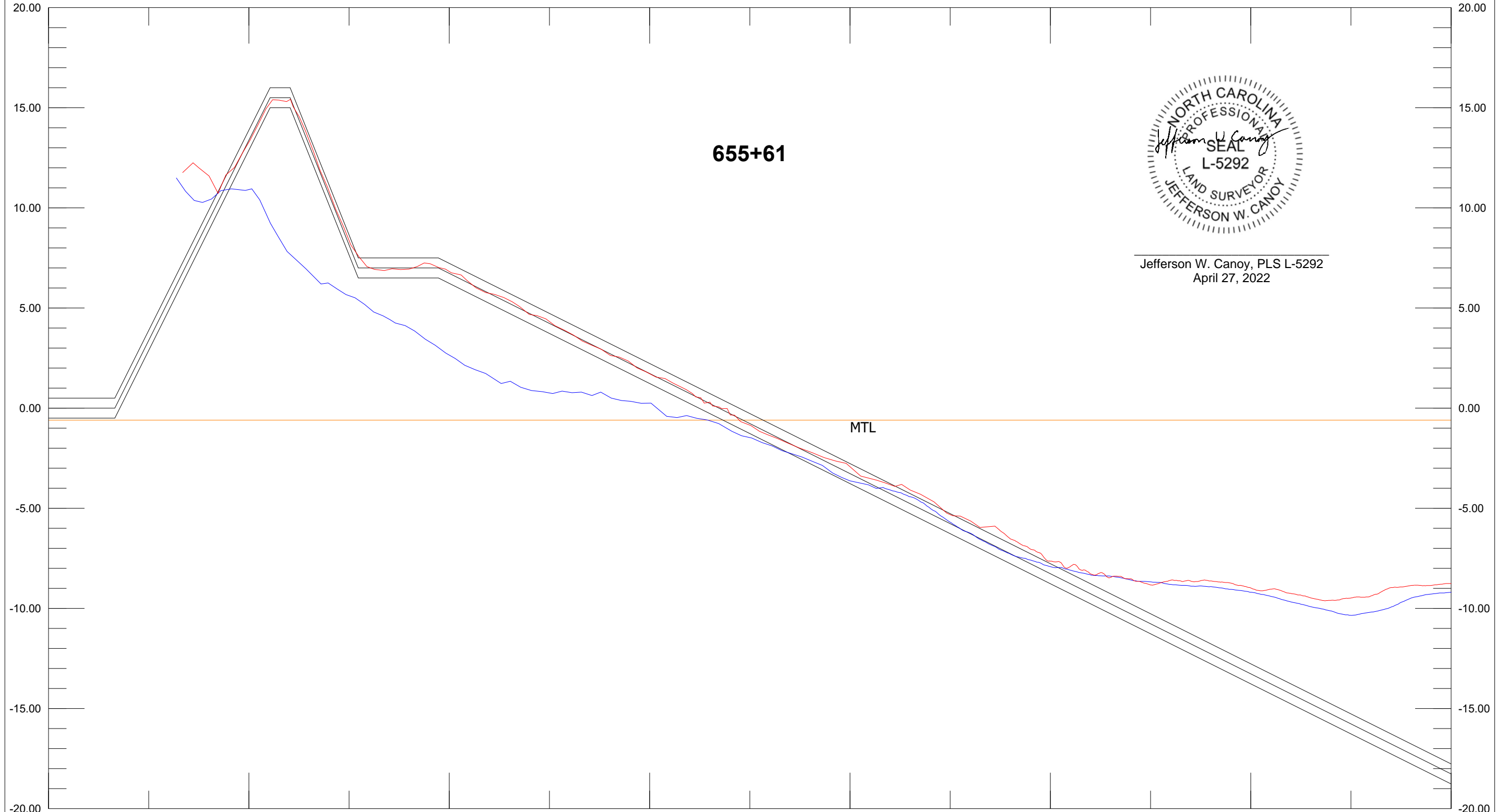


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Base Survey AD Template DBL 50.00 Ft:In
654+00 654+00 Depth 5.00 Ft:In



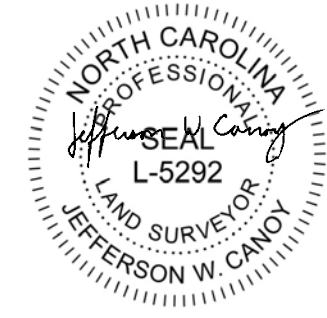
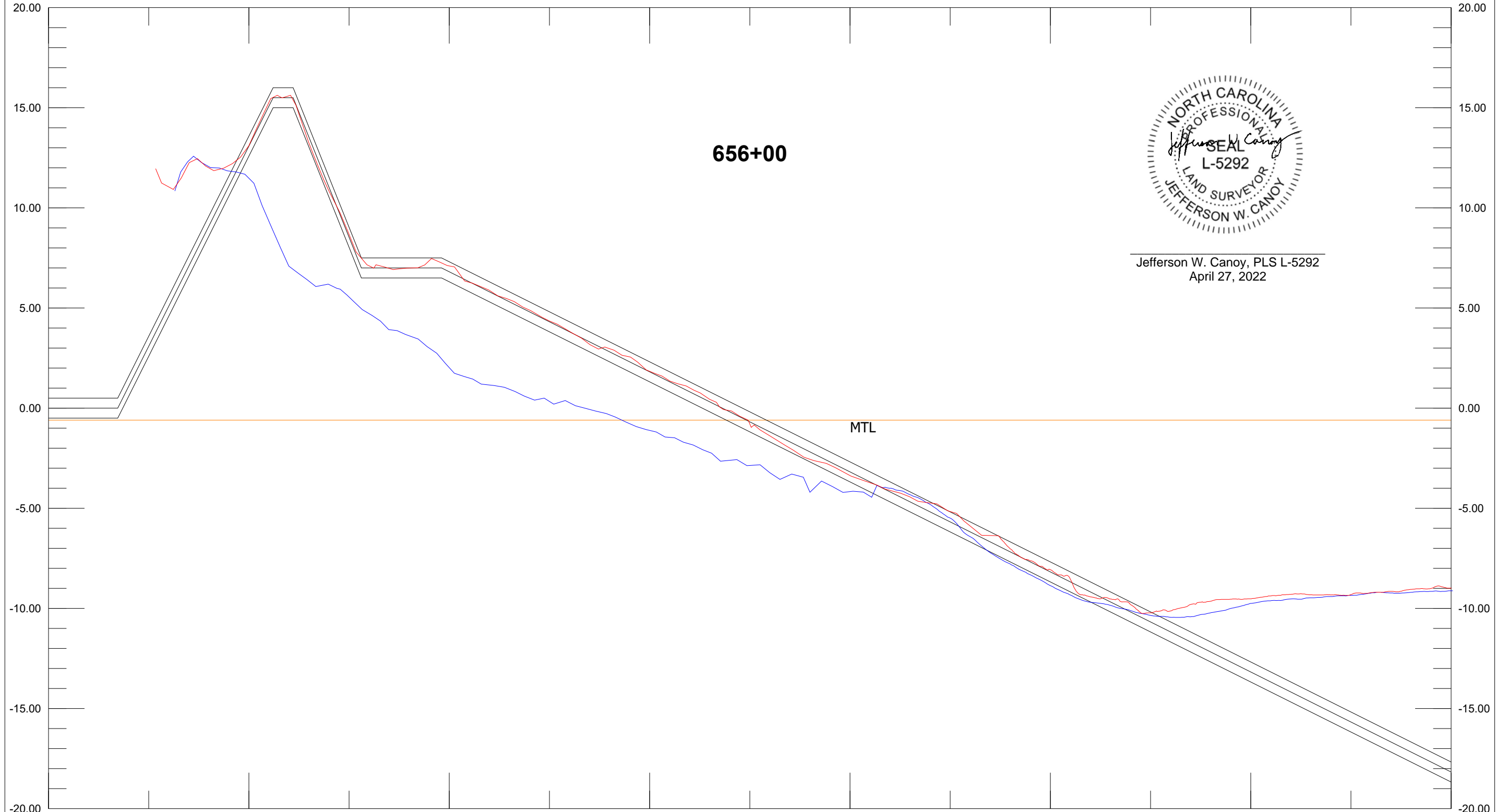
X: 2236301.73 655+61 Length: 1750.00 Azimuth: 173.45 X: 2236501.41
Y: 60519.77 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey 655+61 AD 655+61 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

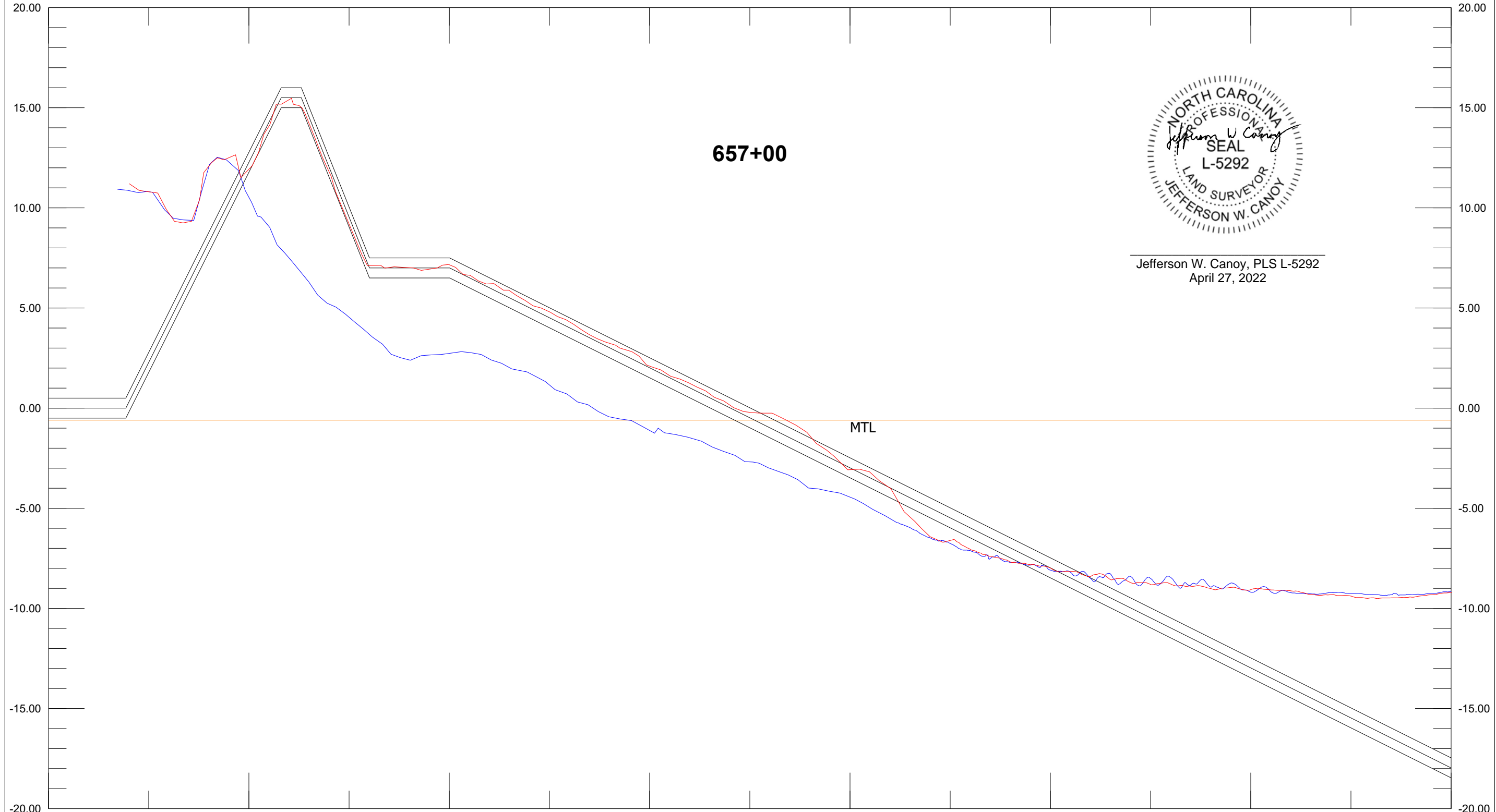
X: 2236268.85 656+00 Length: 1750.00 Azimuth: 174.77 X: 2236428.31
Y: 60516.79 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey 656+00 AD 656+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

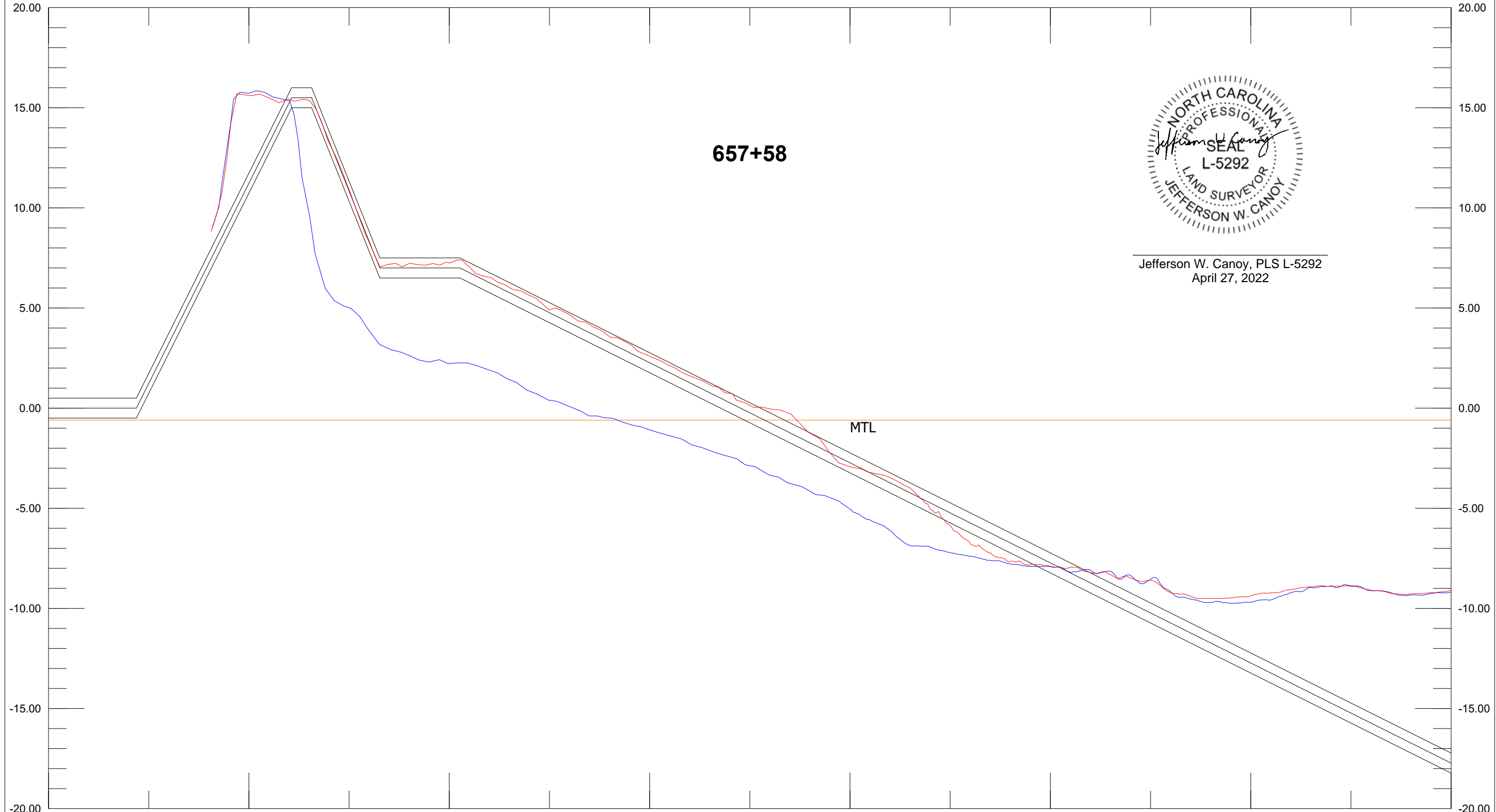
X: 2236169.26 657+00 Length: 1750.00 Azimuth: 174.77 X: 2236328.73
Y: 60507.68 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey 657+00 AD 657+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

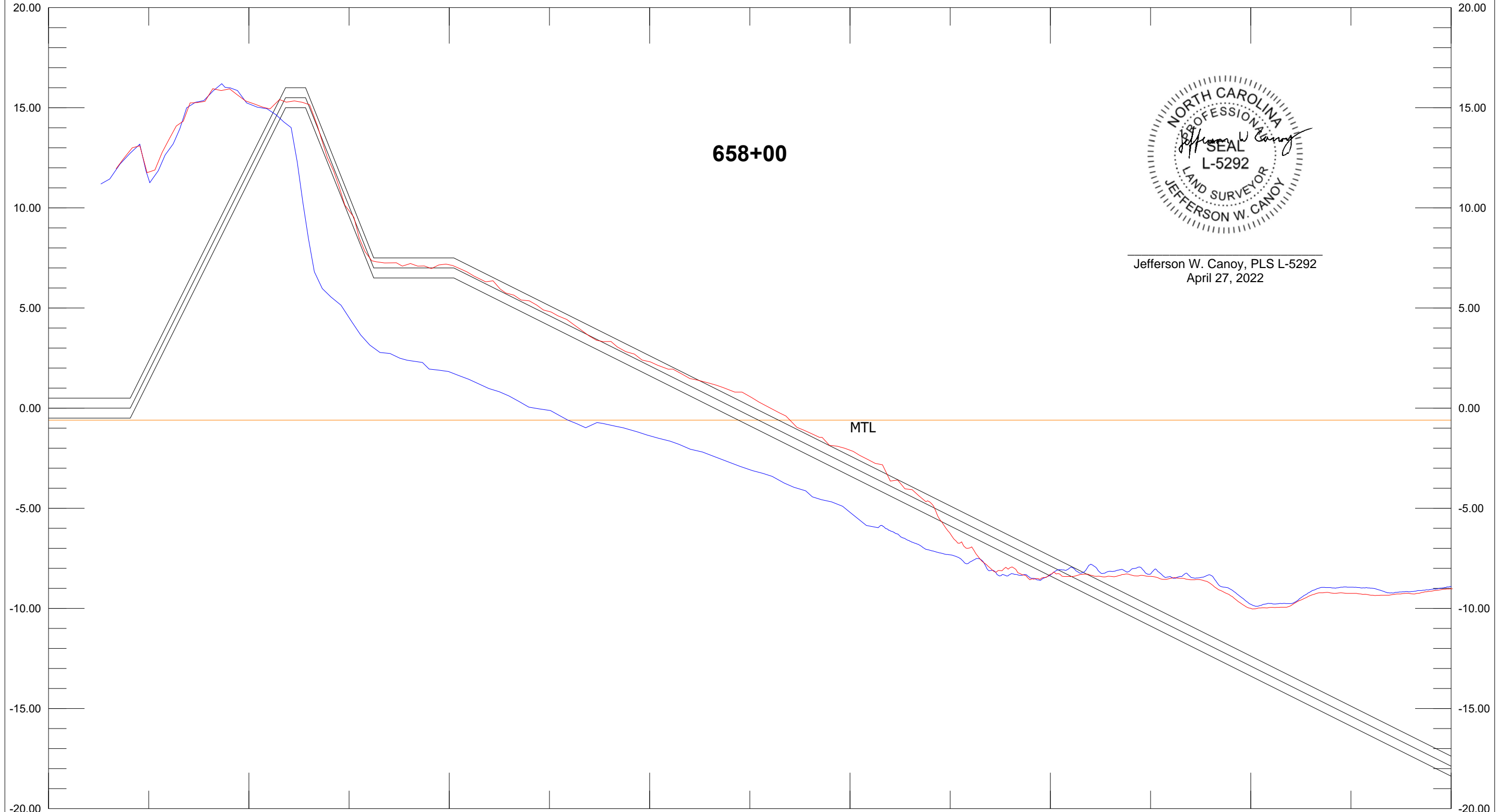
X: 2236100.22 657+58 Length: 1750.00 Azimuth: 172.73 X: 2236321.60
Y: 60503.96 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58768.02



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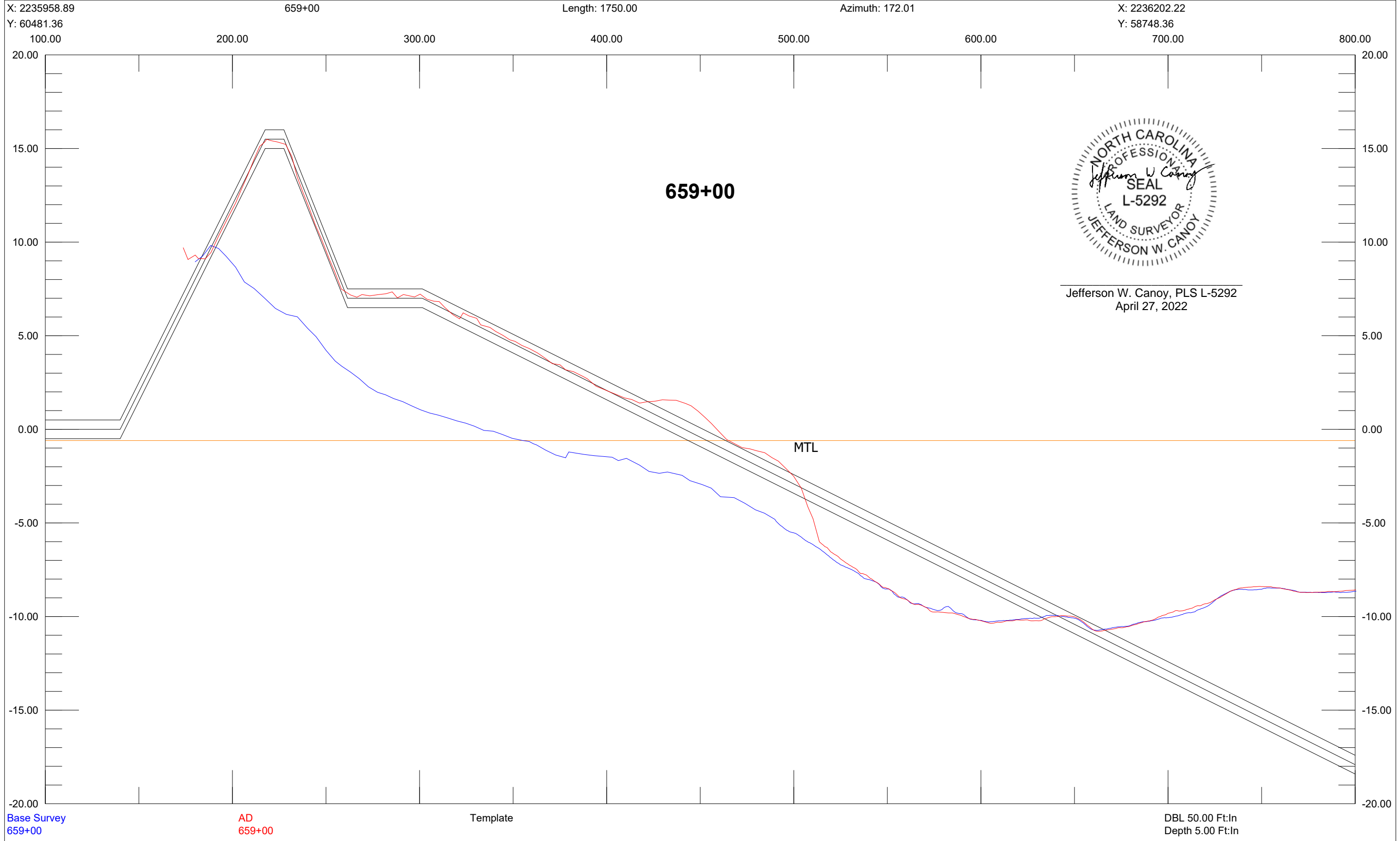
Base Survey AD Template DBL 50.00 Ft:In
657+58 657+58 Depth 5.00 Ft:In

X: 2236057.92 658+00 Length: 1750.00 Azimuth: 172.01 X: 2236301.25
Y: 60495.26 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00

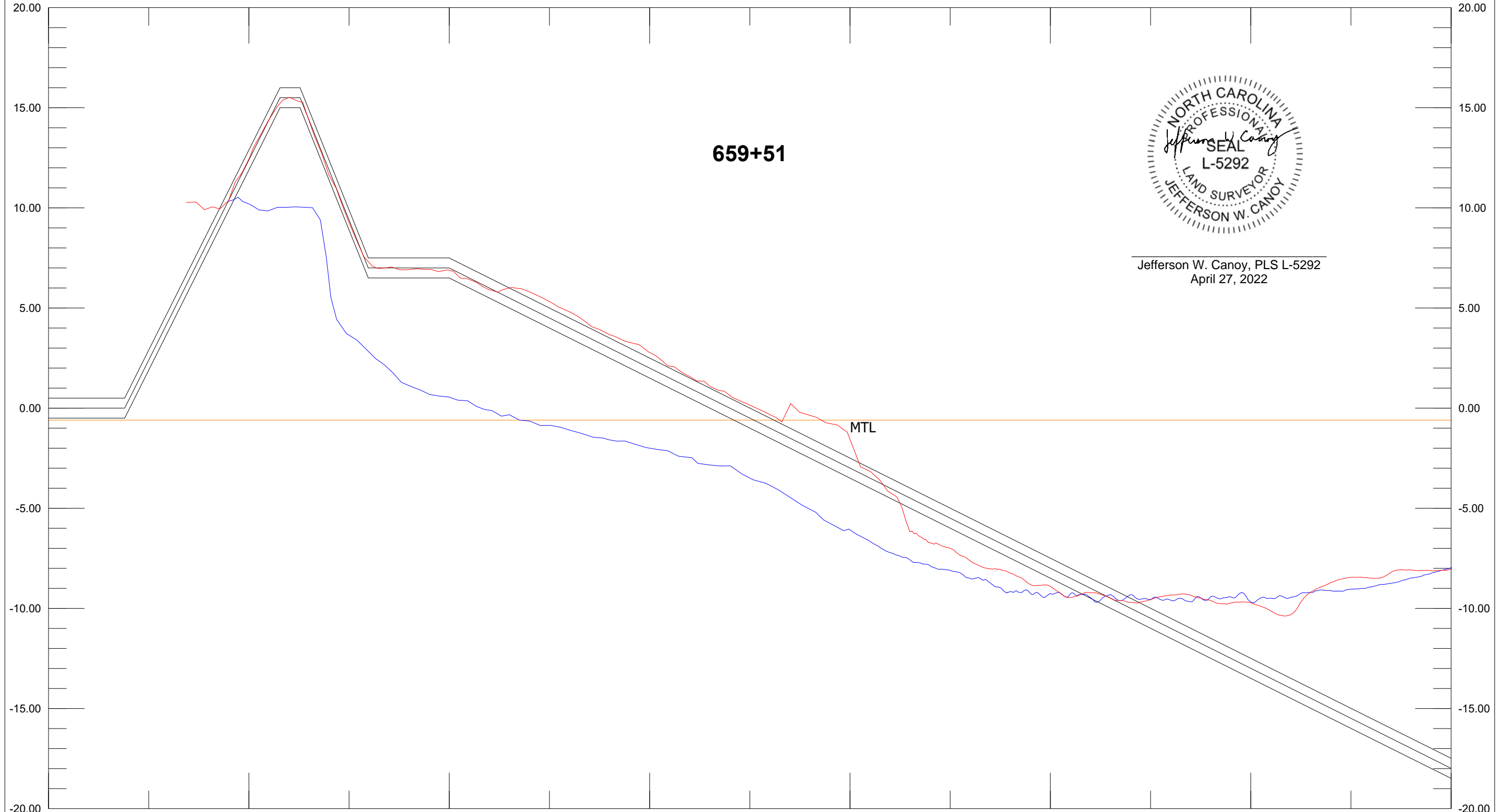


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Base Survey AD Template DBL 50.00 Ft:In
658+00 658+00 Depth 5.00 Ft:In



X: 2235907.42 659+51 Length: 1750.00 Azimuth: 174.64 X: 2236070.92
Y: 60472.42 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58730.07



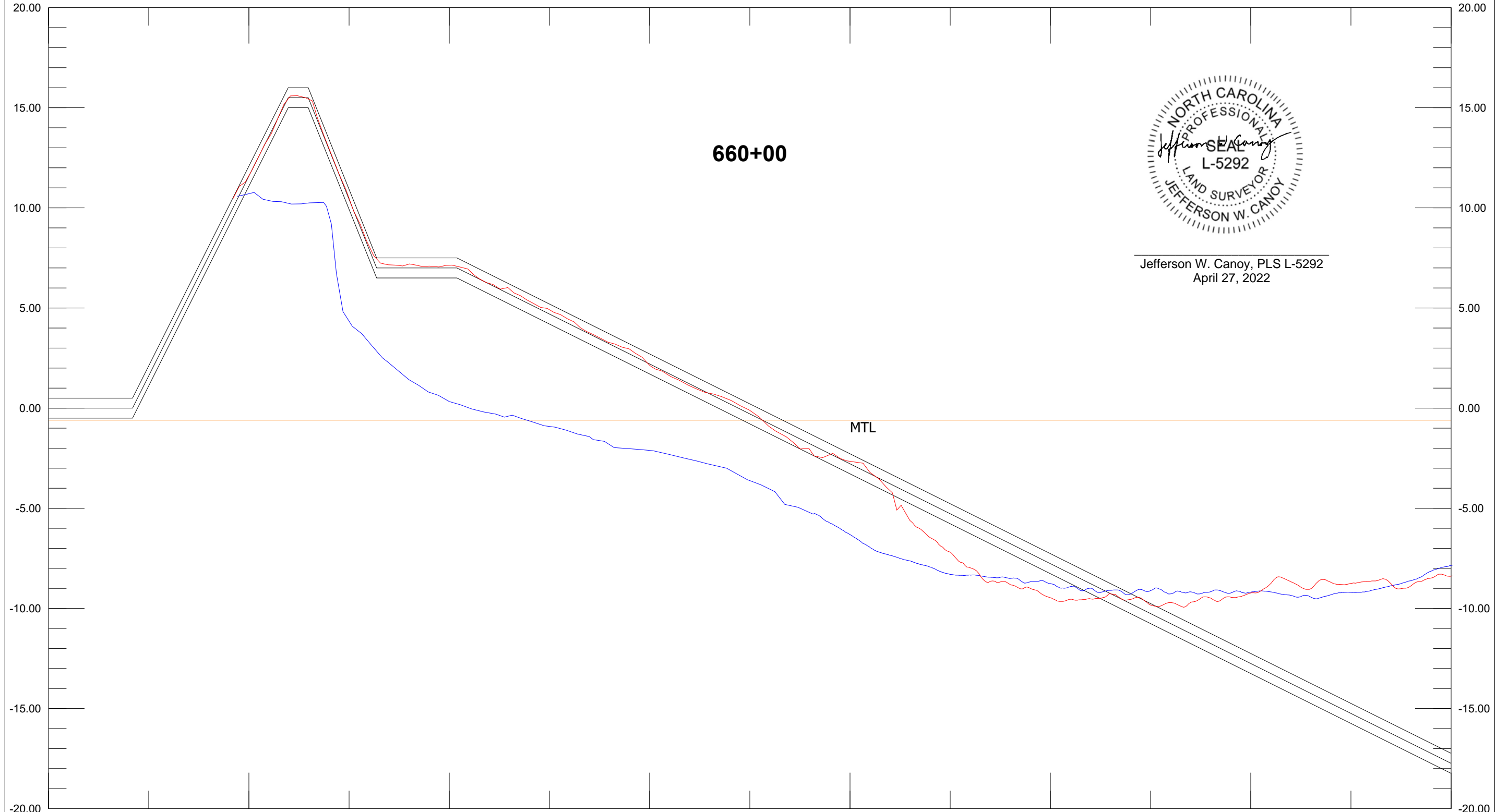
659+51



Jefferson W. Canoy, PLS L-5292
April 27, 2022

Base Survey AD Template DBL 50.00 Ft:In
659+51 659+51 Depth 5.00 Ft:In

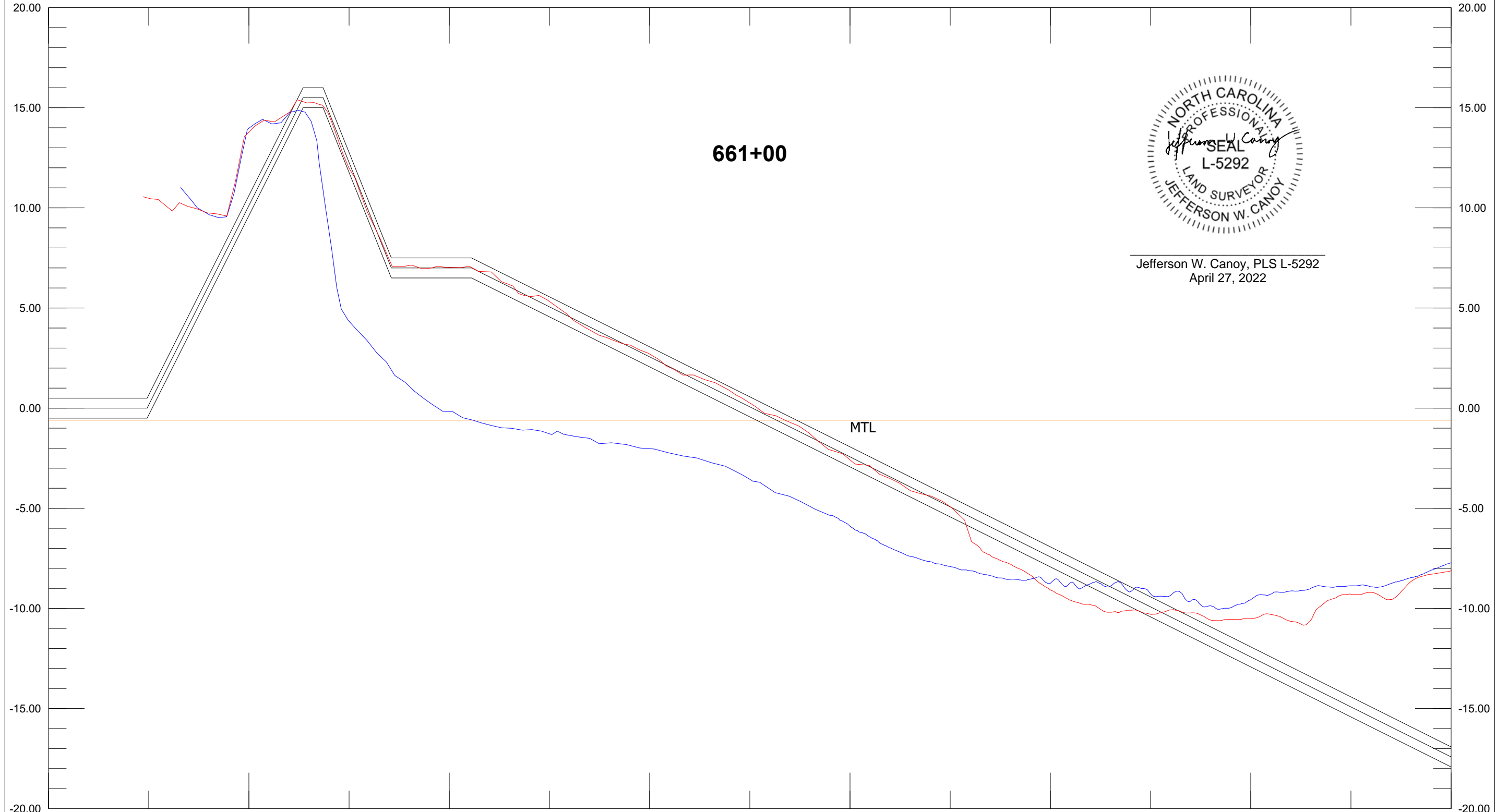
X: 2235877.84 660+00 Length: 1750.00 Azimuth: 176.21 X: 2235993.41
Y: 60471.99 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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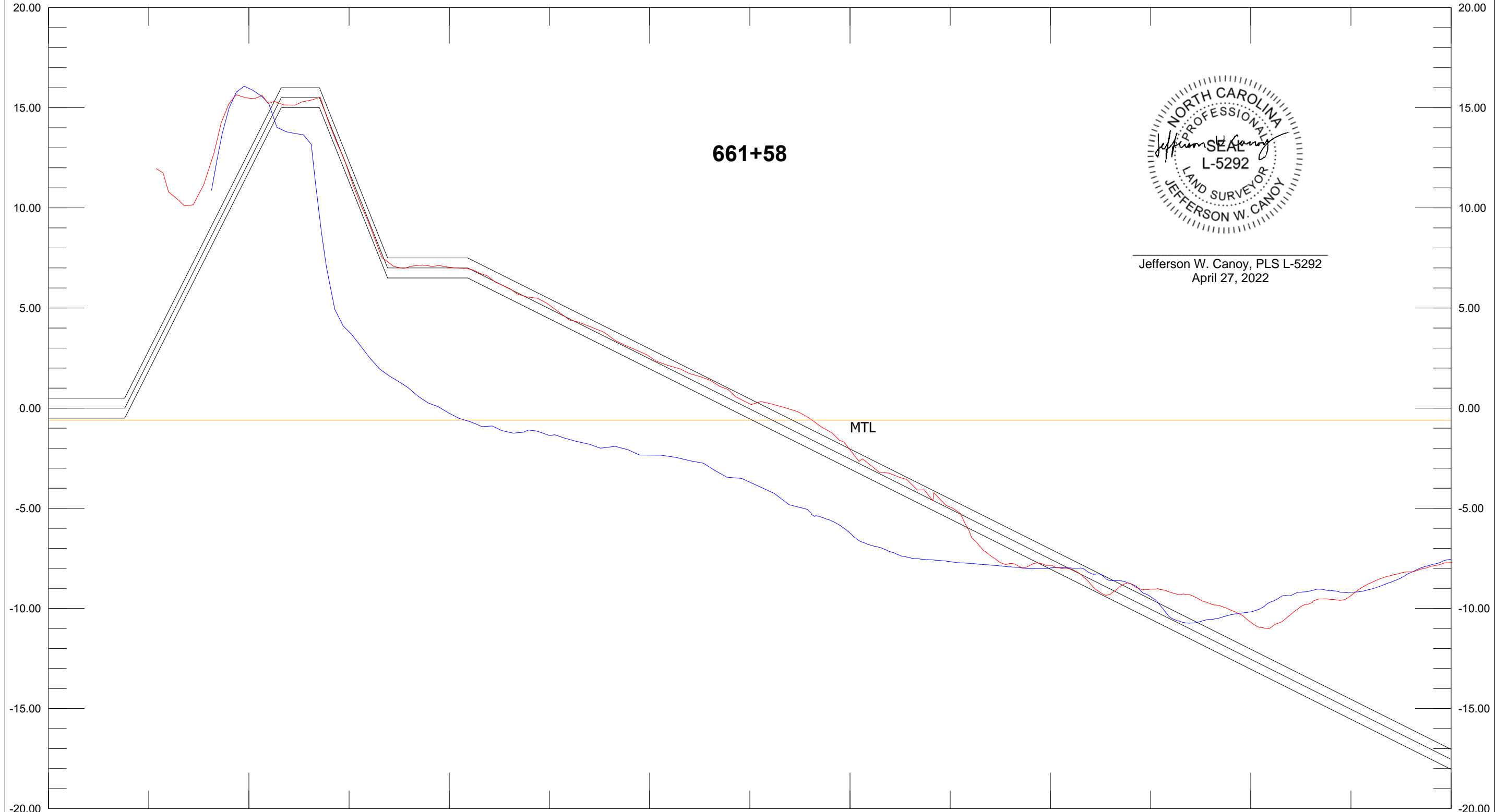
Base Survey AD Template DBL 50.00 Ft:In
660+00 660+00 Depth 5.00 Ft:In

X: 2235770.68 661+00 Length: 1749.99 Azimuth: 174.52 X: 2235937.93
Y: 60464.78 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



Base Survey AD Template DBL 50.00 Ft:In
661+00 661+00 Depth 5.00 Ft:In

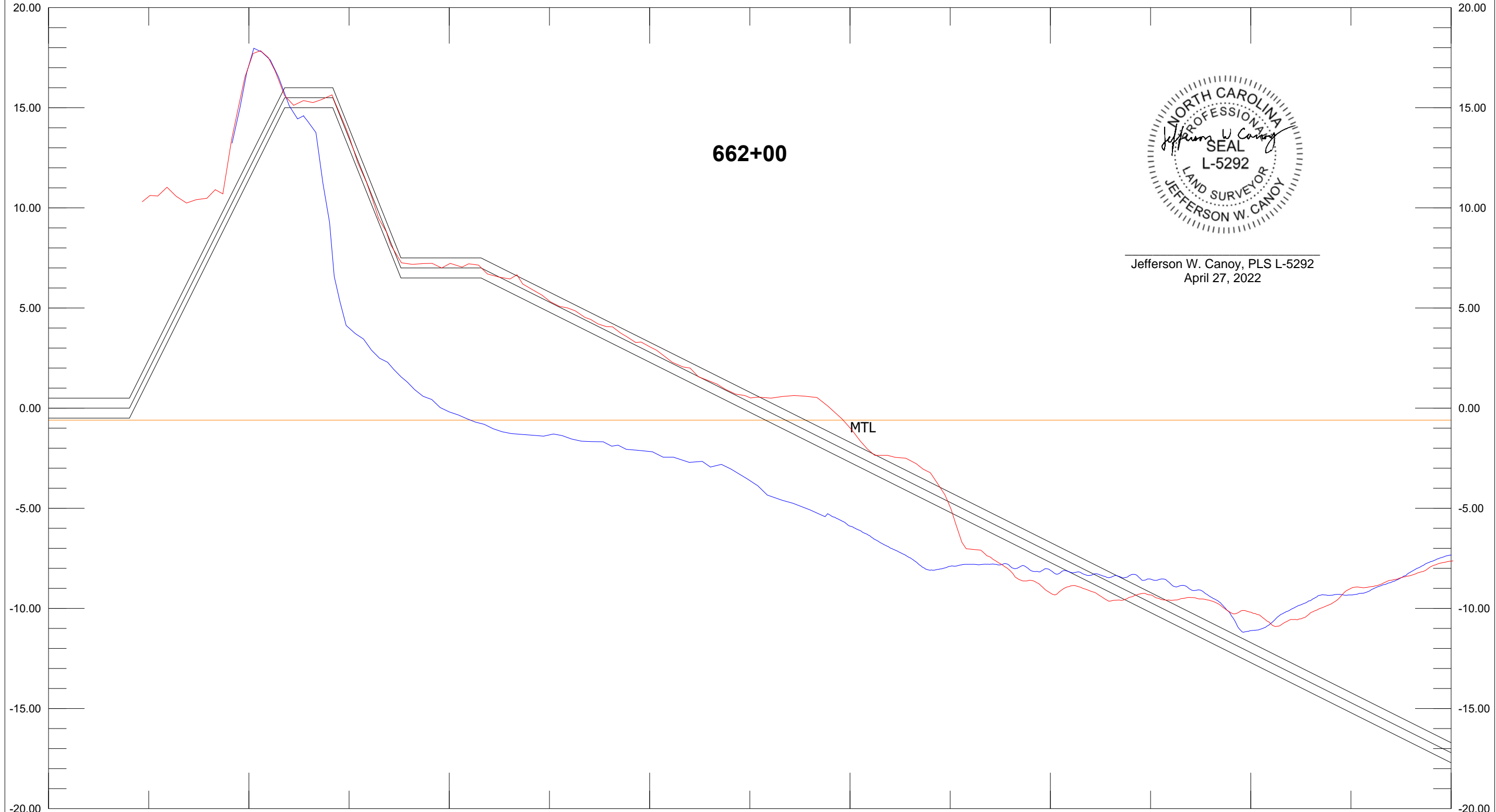
X: 2235699.50 661+58 Length: 1749.99 Azimuth: 172.84 X: 2235917.76
Y: 60453.07 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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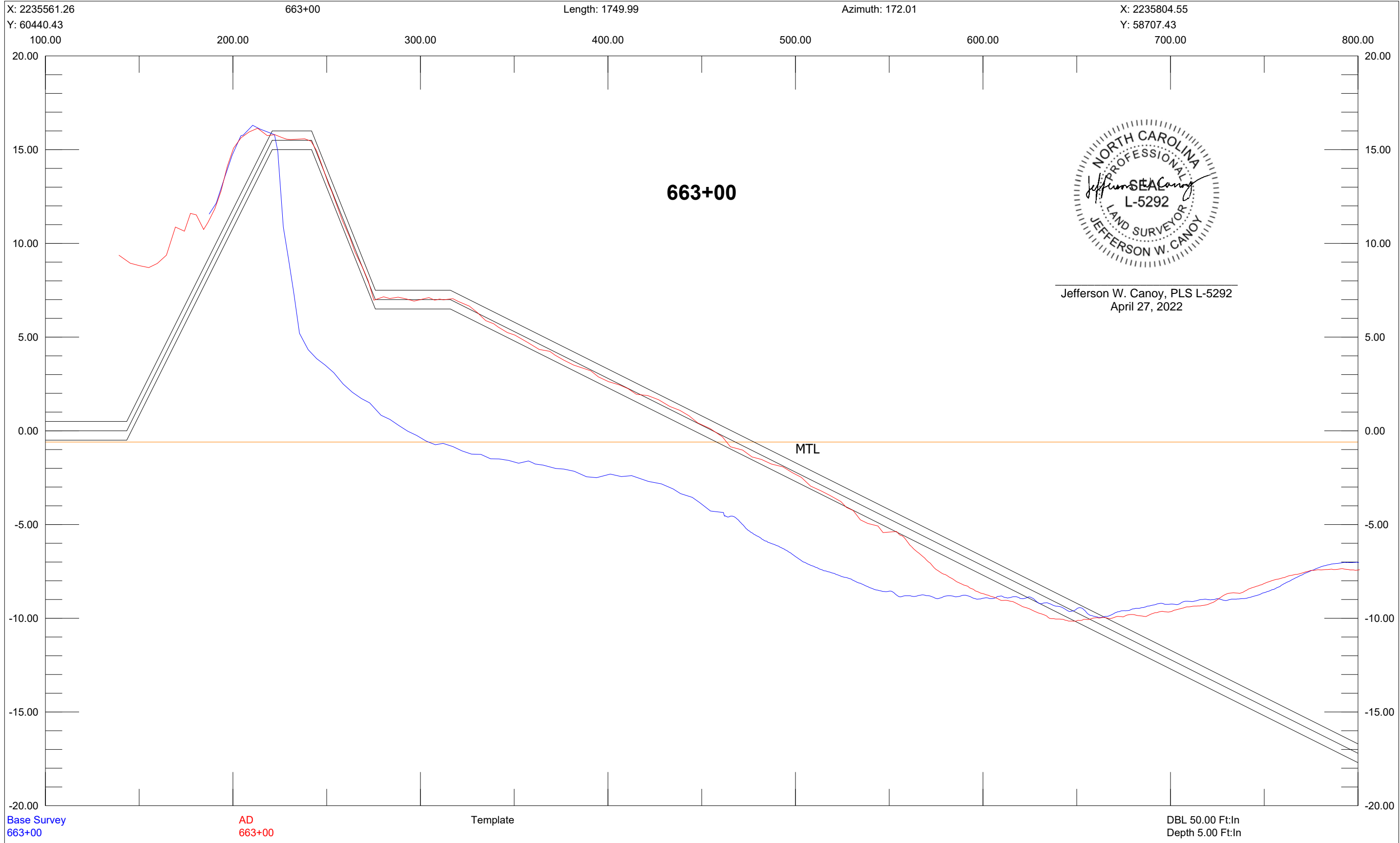
Base Survey AD Template DBL 50.00 Ft:In
661+58 661+58 Depth 5.00 Ft:In

X: 2235660.29 662+00 Length: 1749.99 Azimuth: 172.01 X: 2235903.58
Y: 60454.33 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00

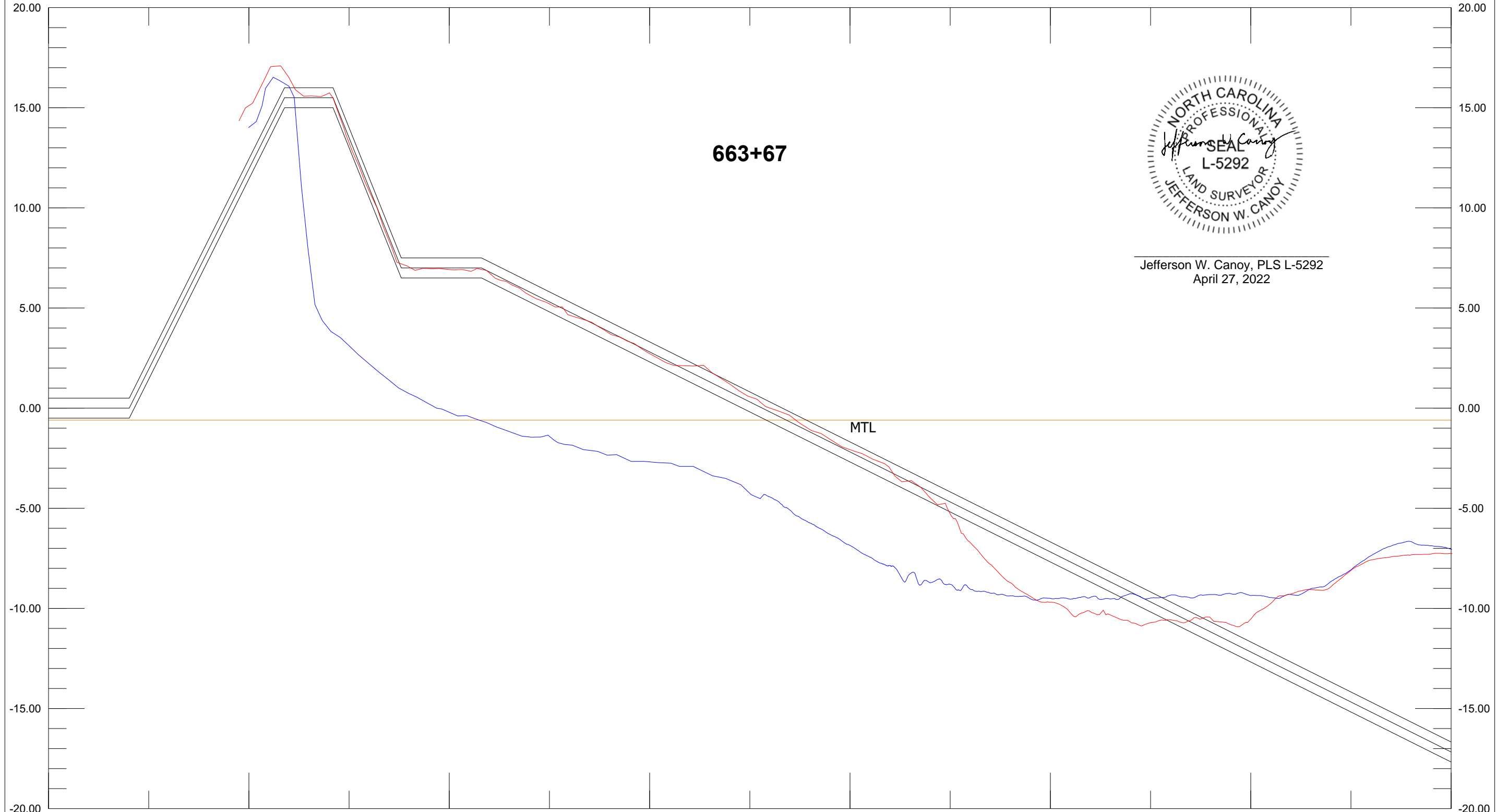


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Base Survey AD Template DBL 50.00 Ft:In
662+00 662+00 Depth 5.00 Ft:In



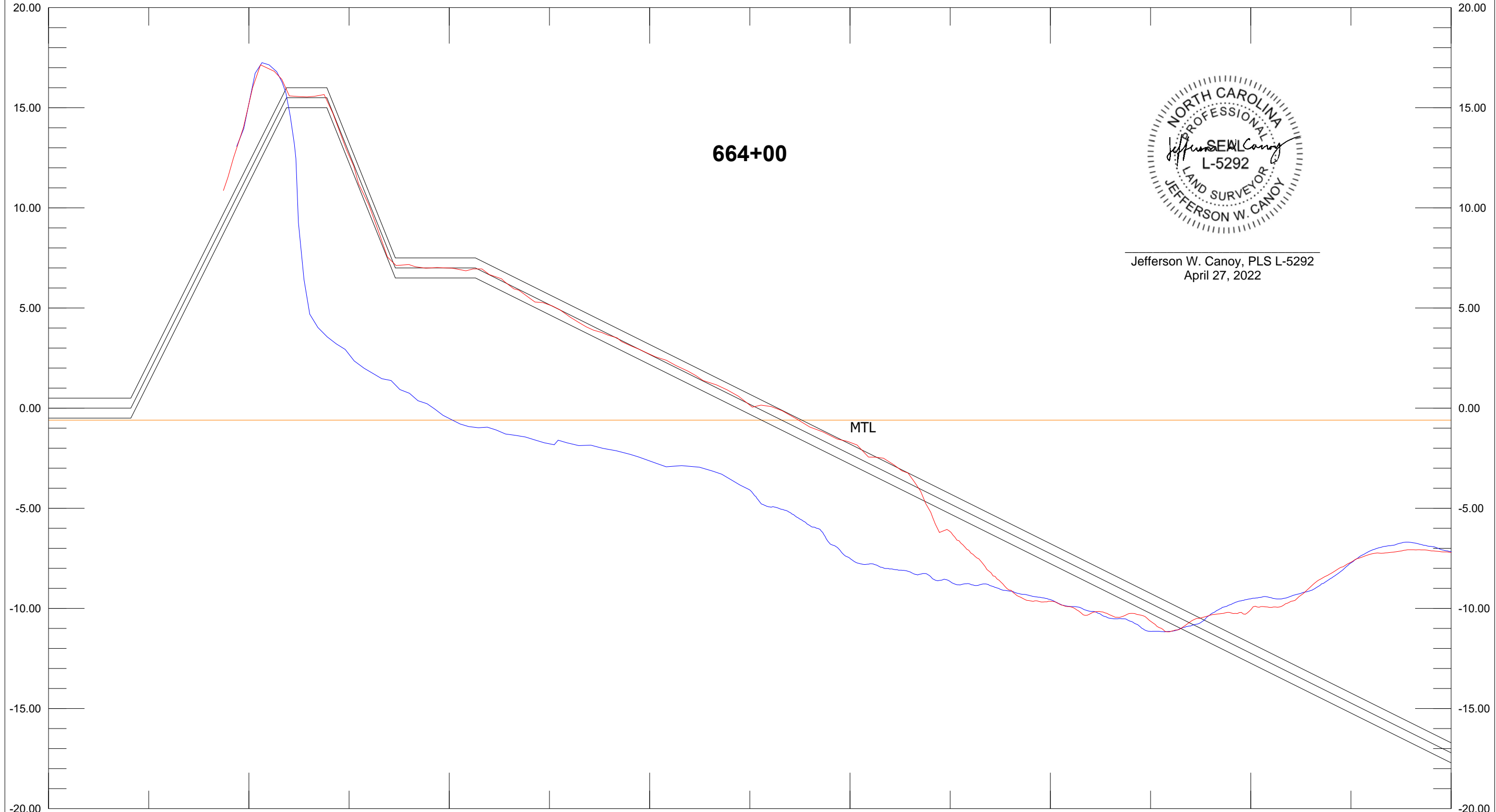
X: 2235505.52 663+67 Length: 1750.00 Azimuth: 174.75 X: 2235665.72
Y: 60432.32 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
663+67 663+67 Depth 5.00 Ft:In

X: 2235481.71 664+00 Length: 1750.00 Azimuth: 176.55 X: 2235586.92
Y: 60431.01 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58684.18



664+00



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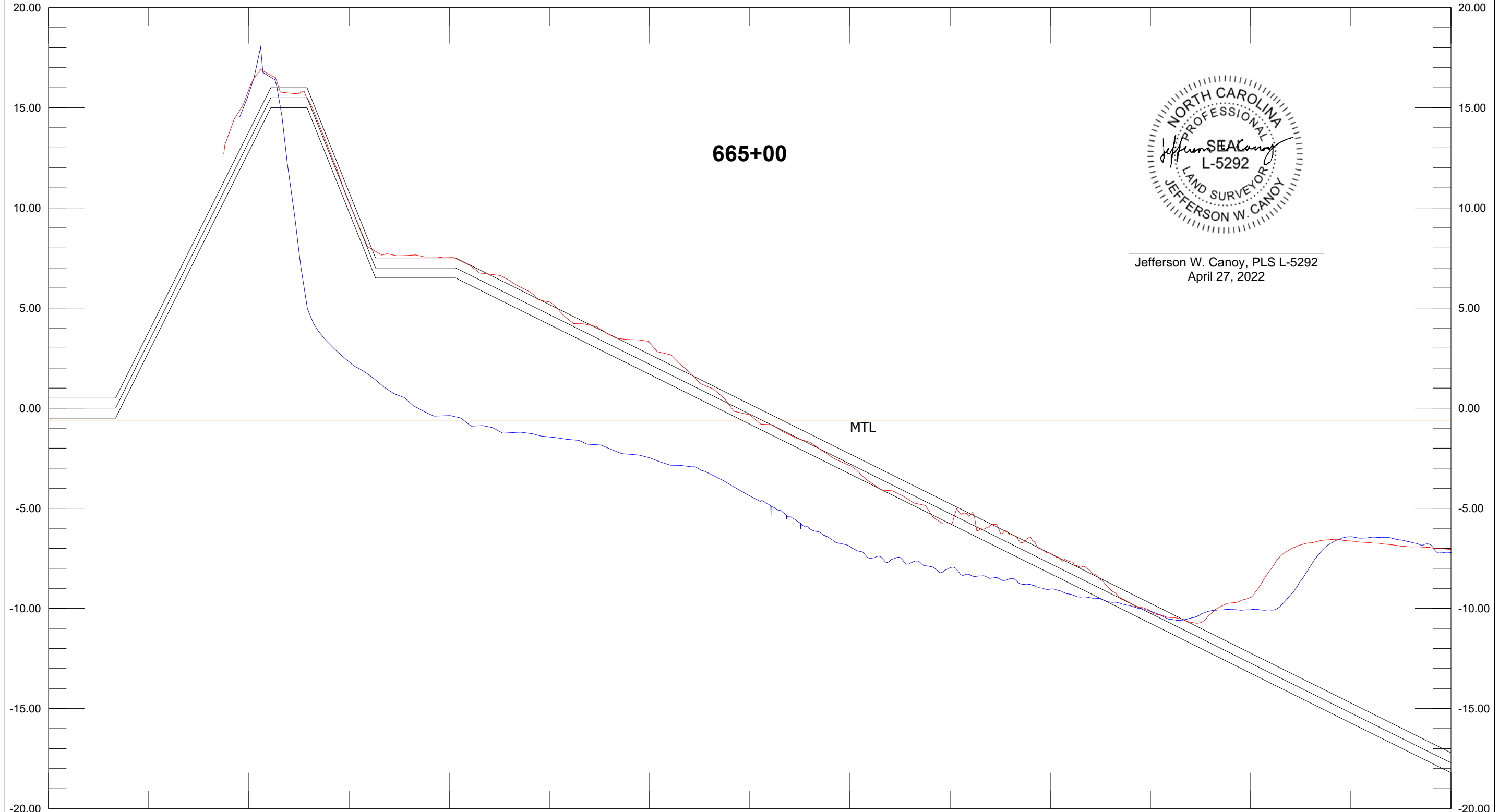
Base Survey
664+00

AD
664+00

Template

DBL 50.00 Ft:In
Depth 5.00 Ft:In

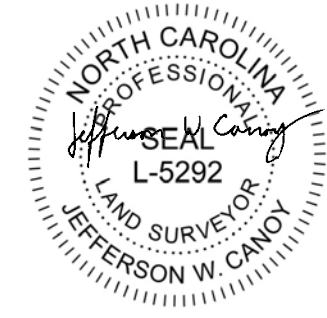
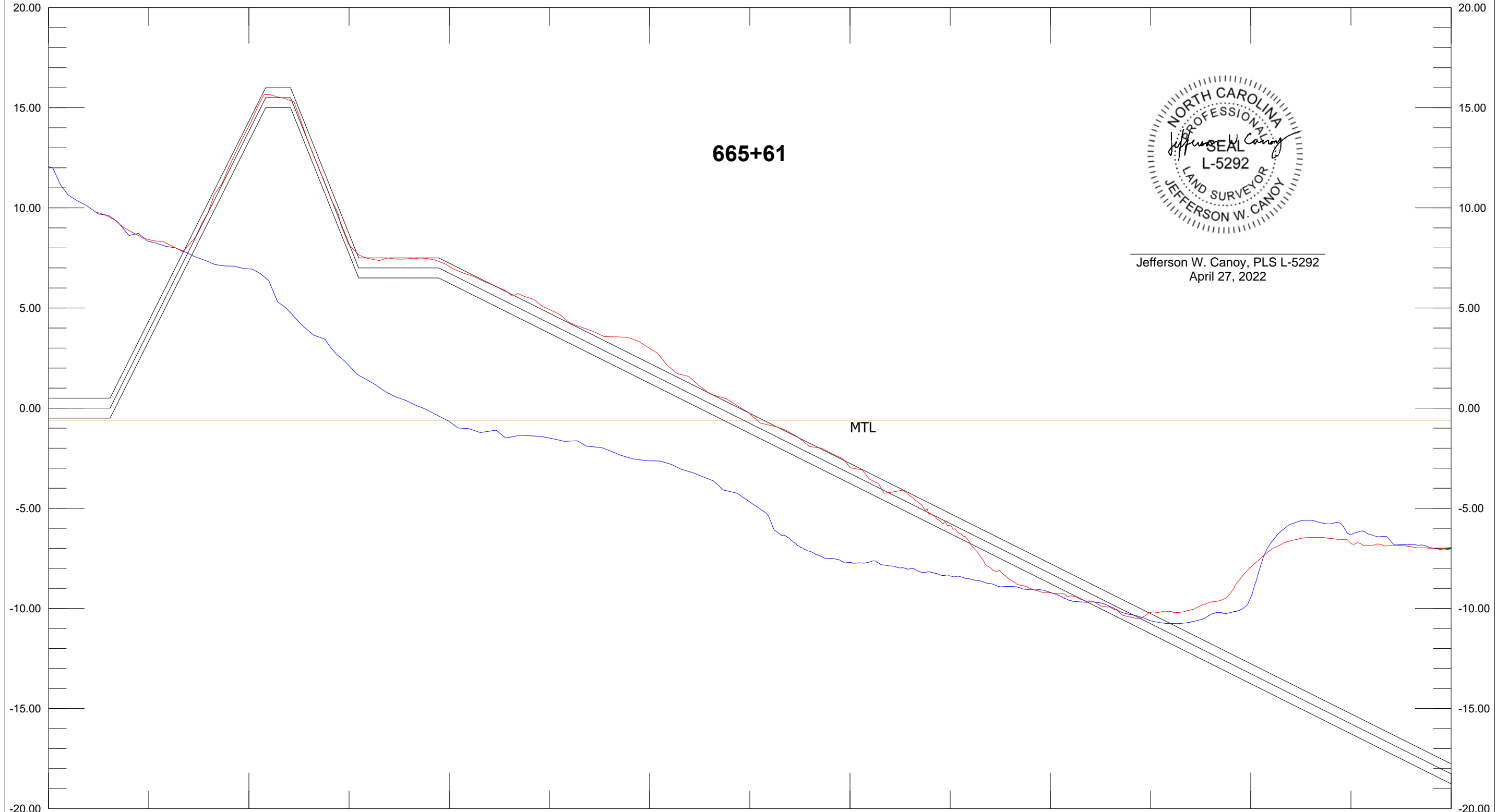
X: 2235381.89 665+00 Length: 1750.01 Azimuth: 176.55 X: 2235487.10
Y: 60425.00 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
665+00 665+00 Depth 5.00 Ft:In

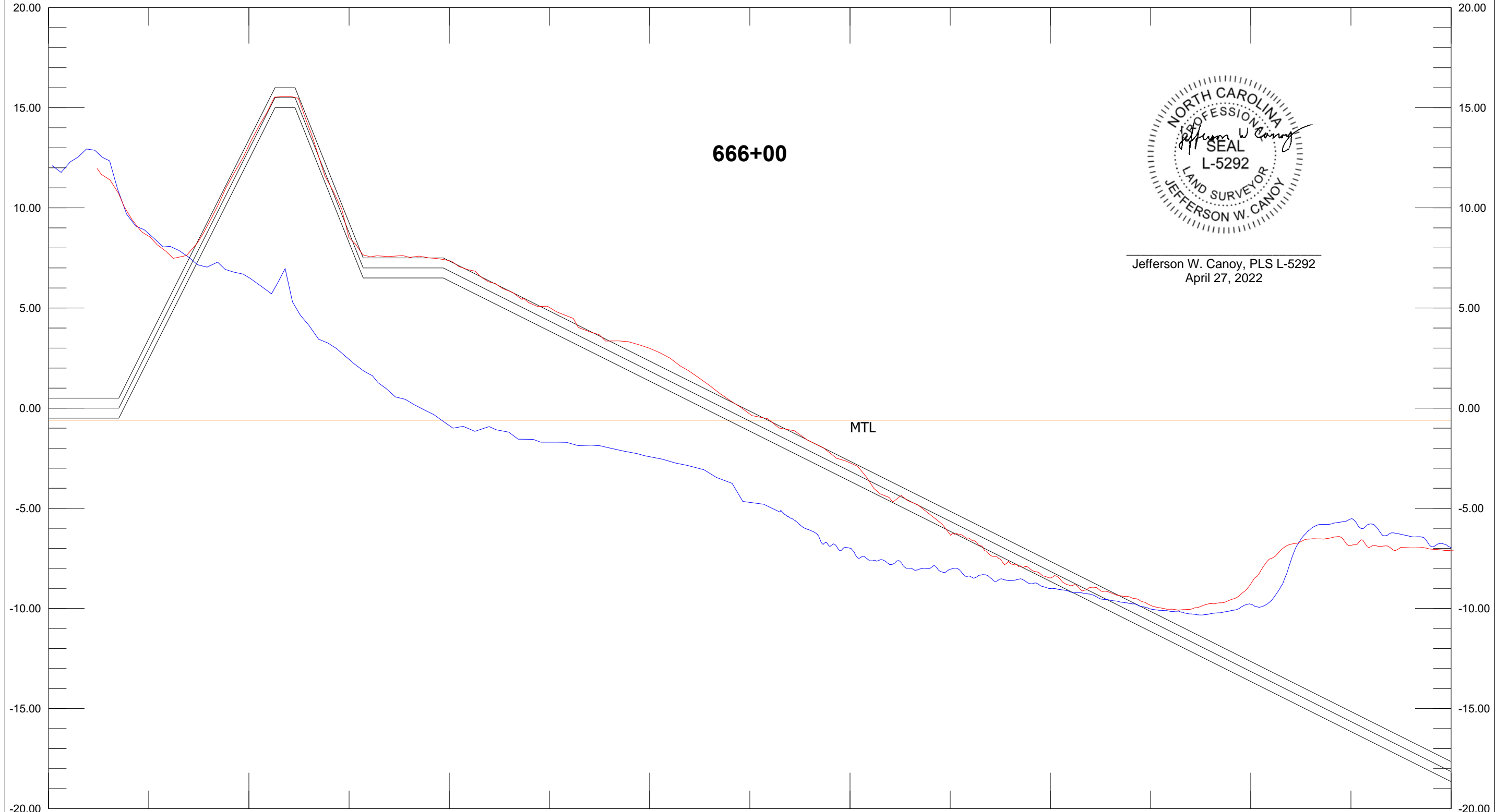
X: 2235332.75 665+61 Length: 1749.99 Azimuth: 181.21 X: 2235295.80
Y: 60419.69 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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Base Survey AD Template DBL 50.00 Ft:In
665+61 665+61 Depth 5.00 Ft:In

X: 2235312.58 666+00 Length: 1749.99 Azimuth: 183.55 X: 2235204.30
Y: 60422.67 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



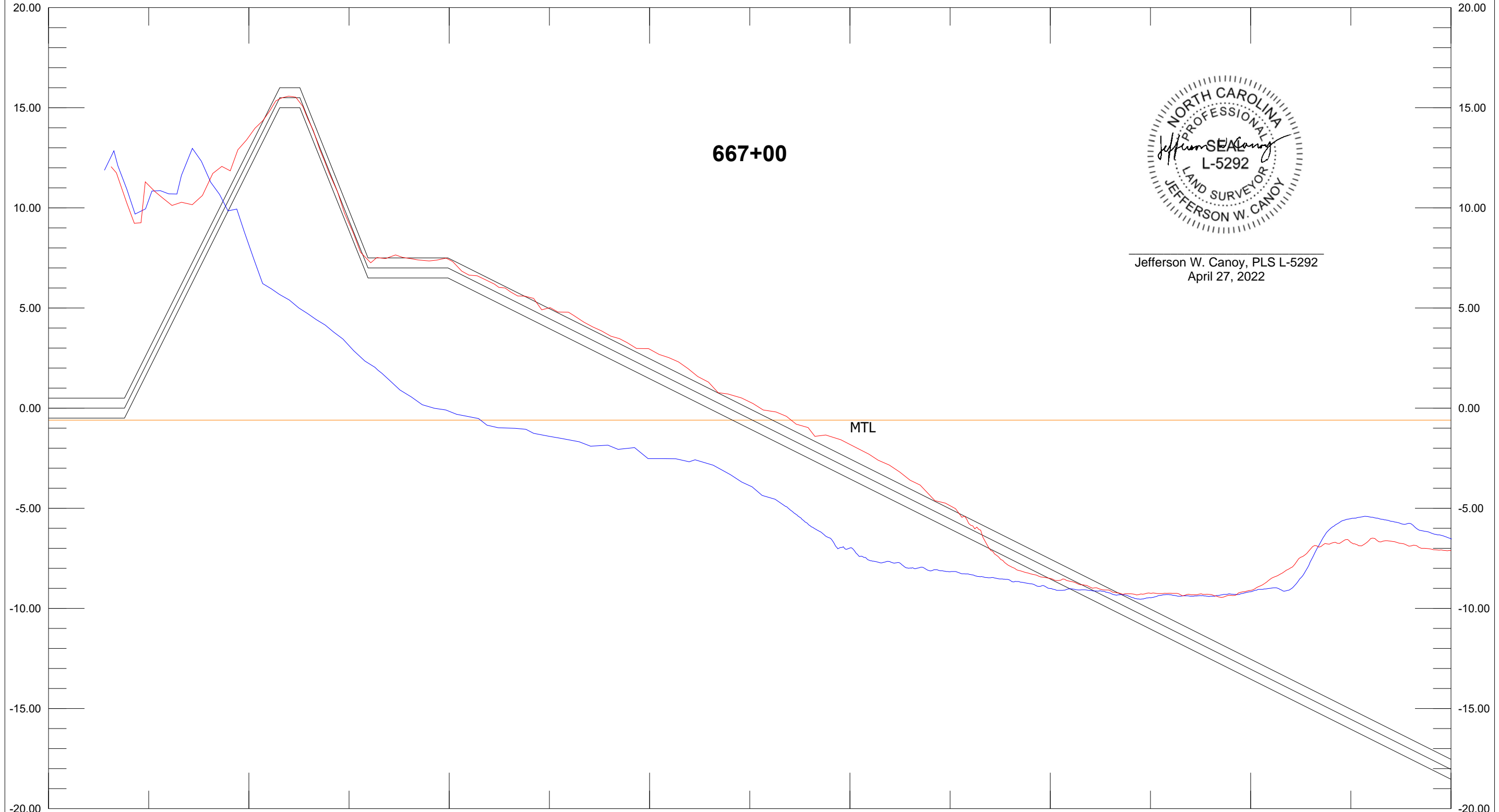
666+00



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Base Survey AD Template DBL 50.00 Ft:In
666+00 666+00 Depth 5.00 Ft:In

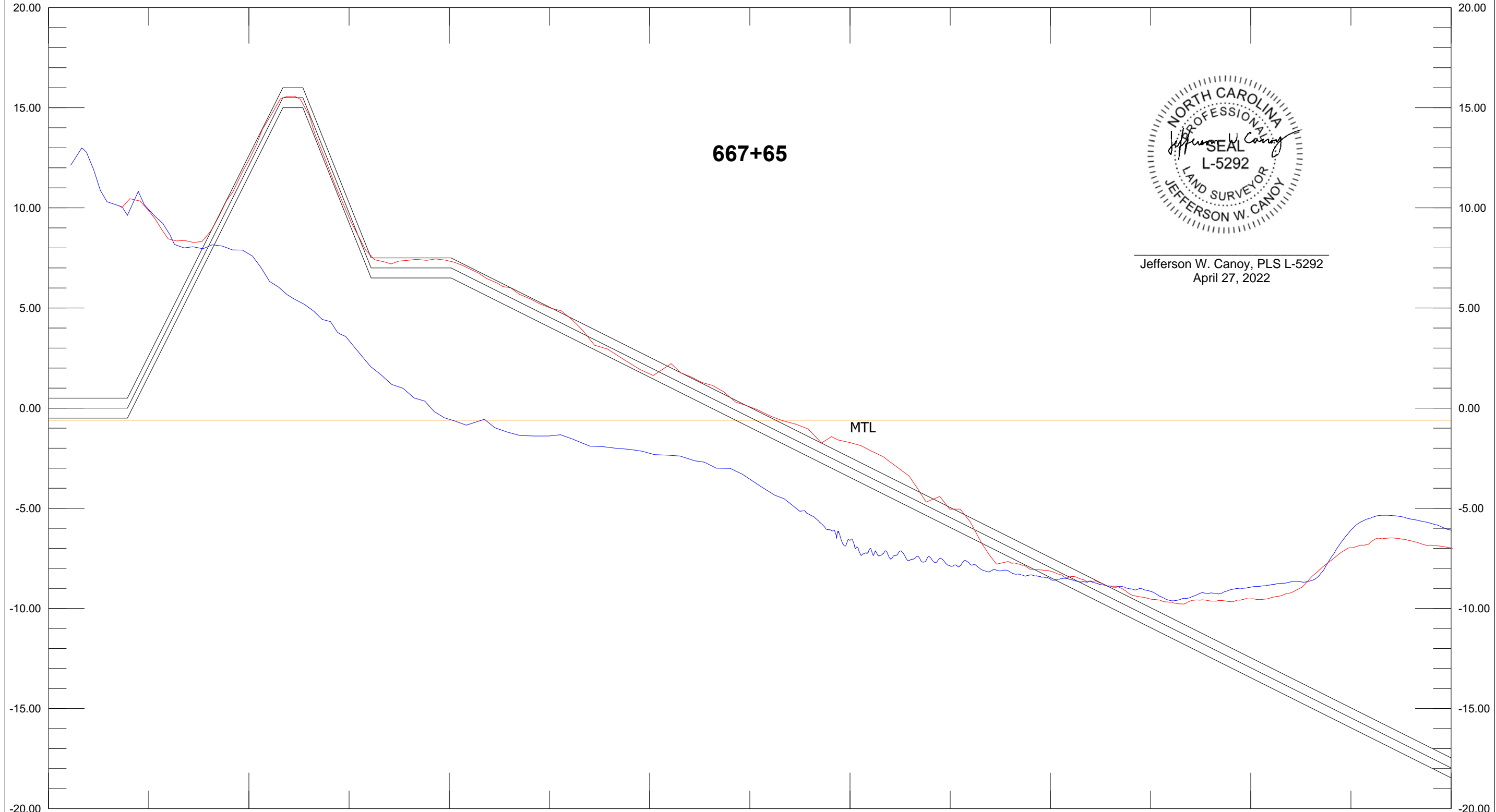
X: 2235212.77 667+00 Length: 1750.00 Azimuth: 183.55 X: 2235104.50
Y: 60428.86 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
667+00 667+00 Depth 5.00 Ft:In

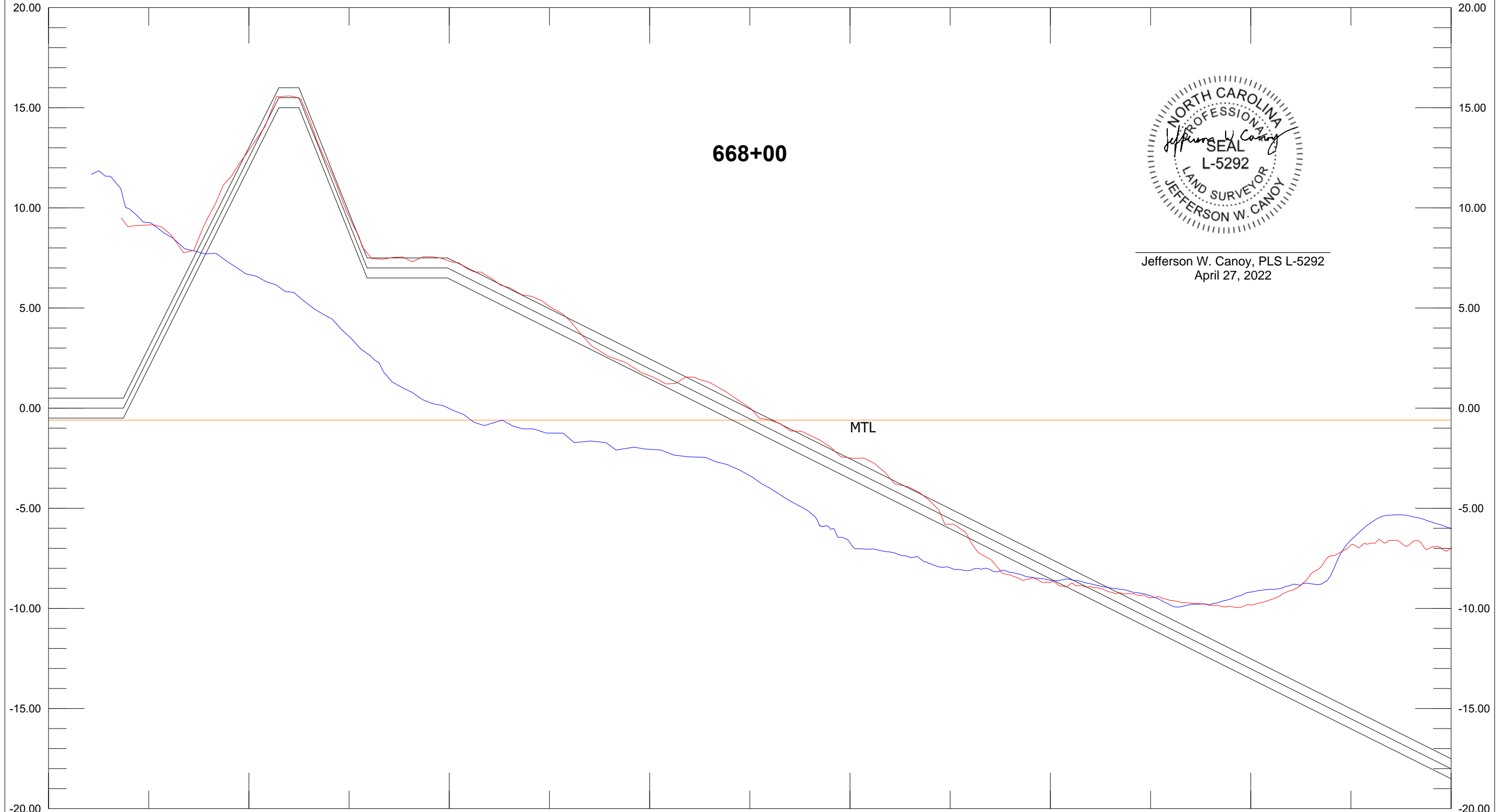
X: 2235137.57 667+65 Length: 1750.00 Azimuth: 181.36 X: 2235095.99
Y: 60433.32 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58683.81



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Base Survey AD Template DBL 50.00 Ft:In
667+65 667+65 Depth 5.00 Ft:In

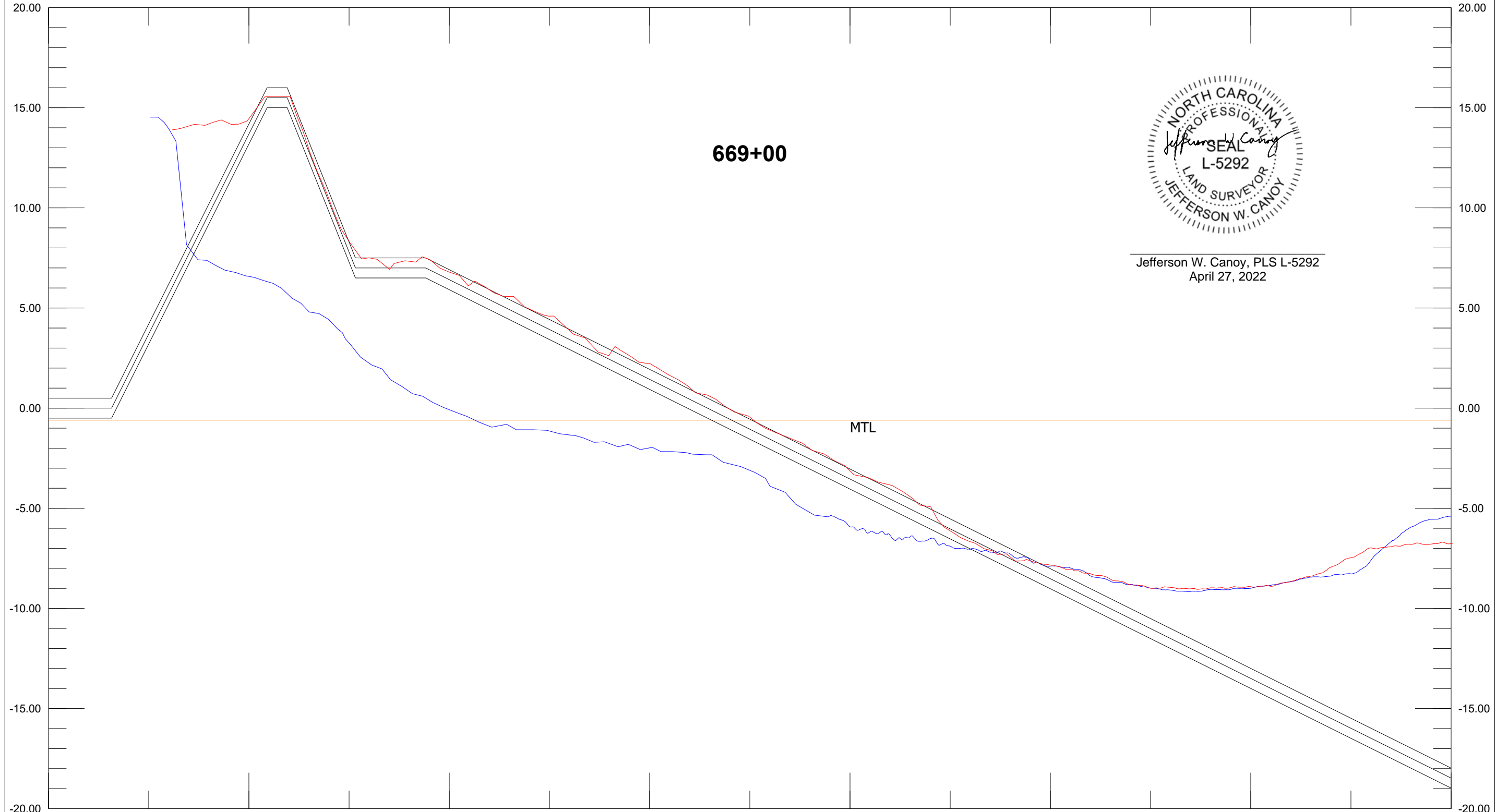
X: 2235100.28 668+00 Length: 1749.99 Azimuth: 180.65 X: 2235080.32
Y: 60433.78 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58683.90



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Base Survey AD Template DBL 50.00 Ft:In
668+00 668+00 Depth 5.00 Ft:In

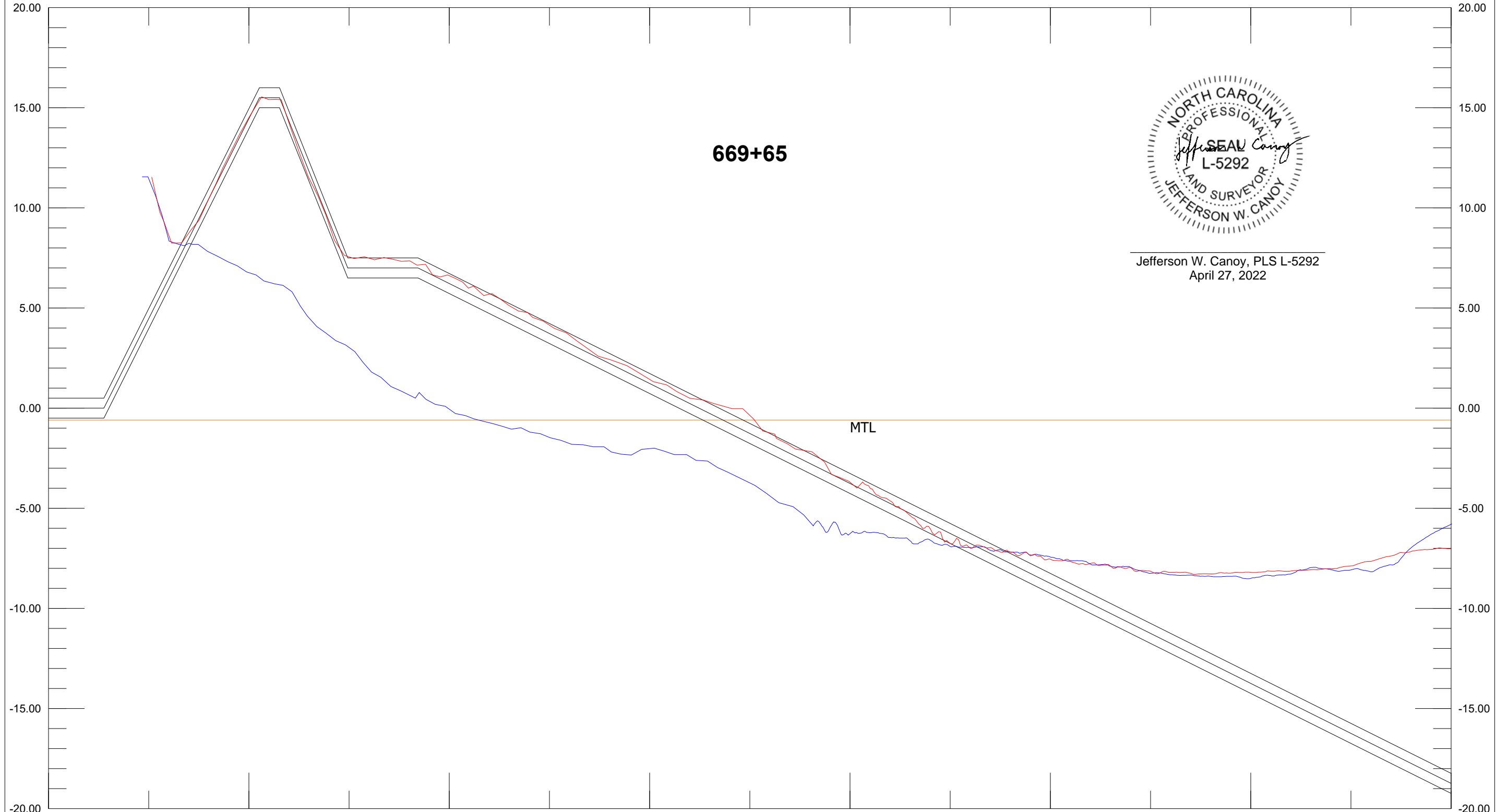
X: 2235000.28 669+00 Length: 1749.99 Azimuth: 180.65 X: 2234980.33
Y: 60434.92 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58685.04



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Base Survey AD Template DBL 50.00 Ft:In
669+00 669+00

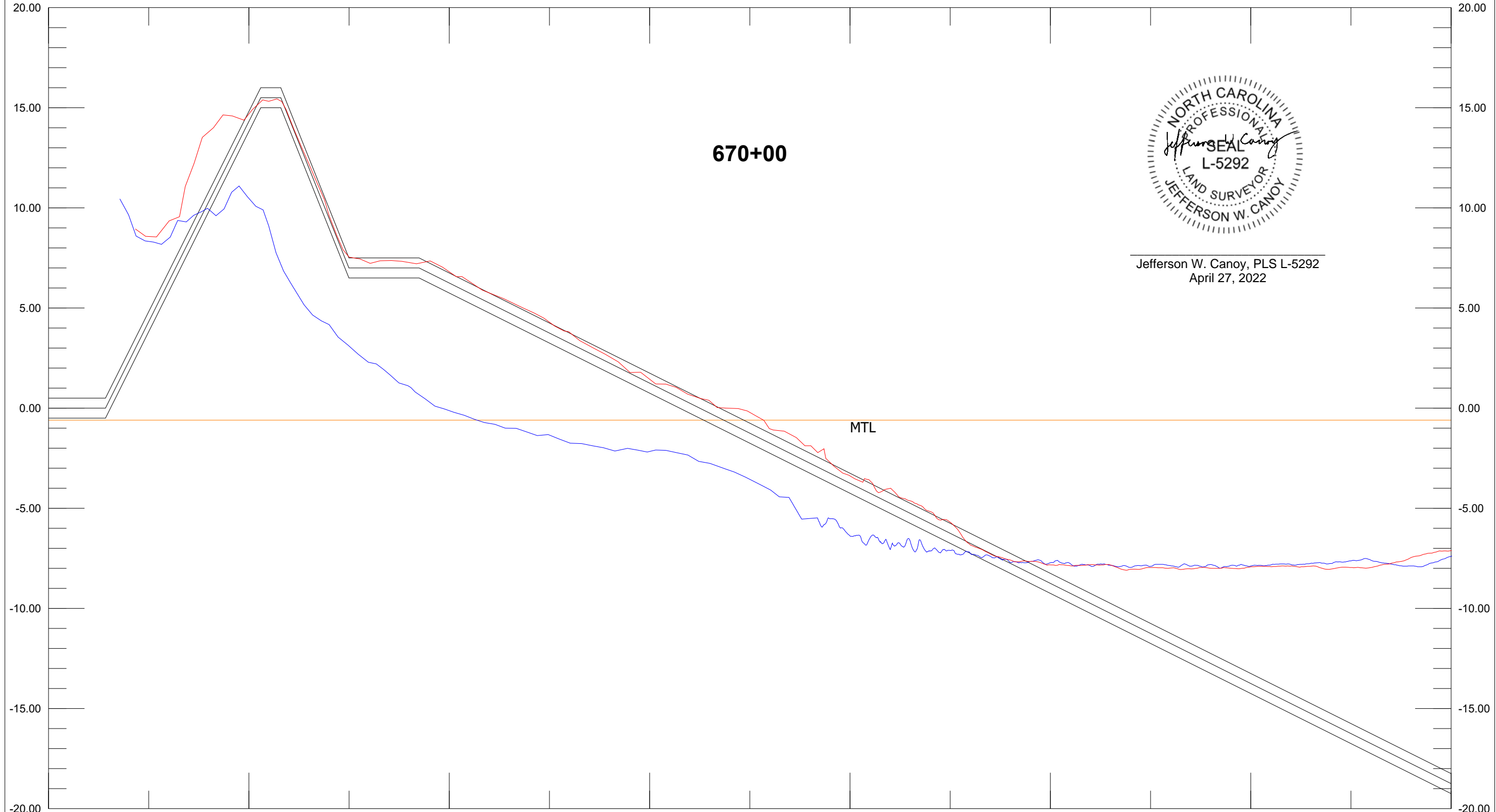
X: 2234934.58 669+65 Length: 1749.99 Azimuth: 180.65 X: 2234914.63
Y: 60435.67 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58685.79



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Base Survey AD Template DBL 50.00 Ft:In
669+65 669+65 Depth 5.00 Ft:In

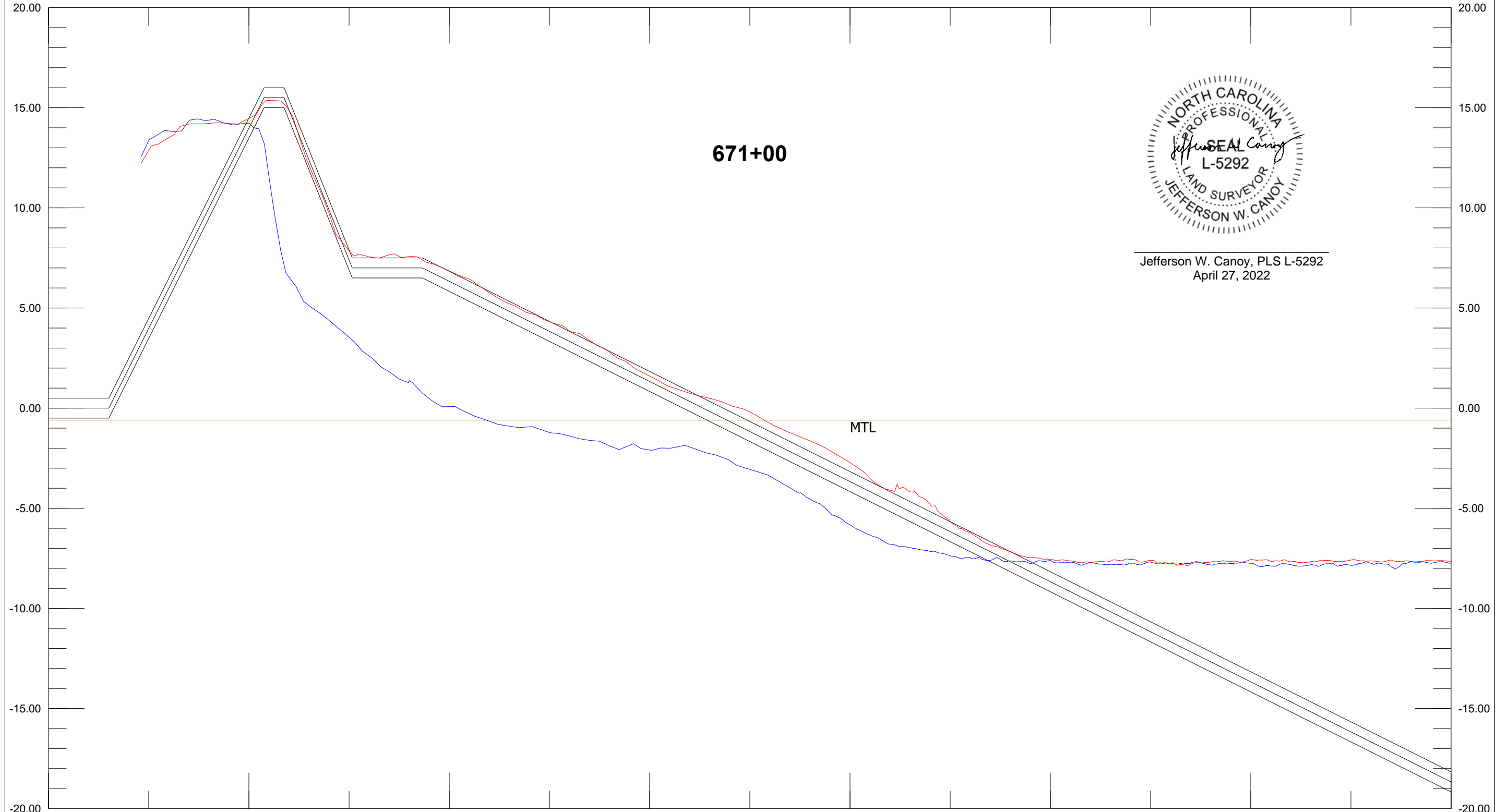
X: 2234919.14 670+00 Length: 1750.00 Azimuth: 184.95 X: 2234768.08
Y: 60437.72 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
670+00 670+00 Depth 5.00 Ft:In

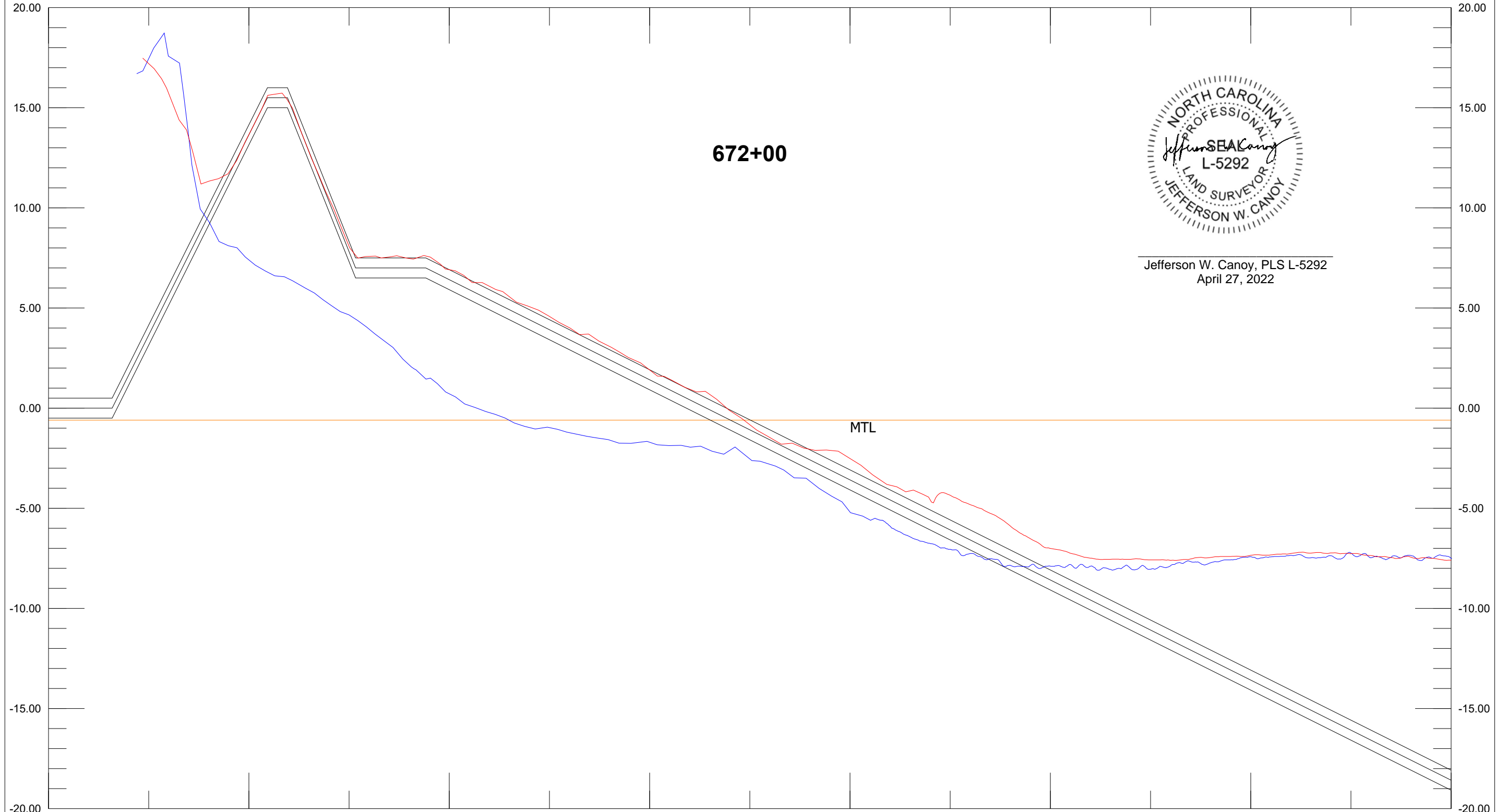
X: 2234819.52 671+00 Length: 1750.00 Azimuth: 184.95 X: 2234668.46
Y: 60446.35 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58702.88



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Base Survey AD Template DBL 50.00 Ft:In
671+00 671+00 Depth 5.00 Ft:In

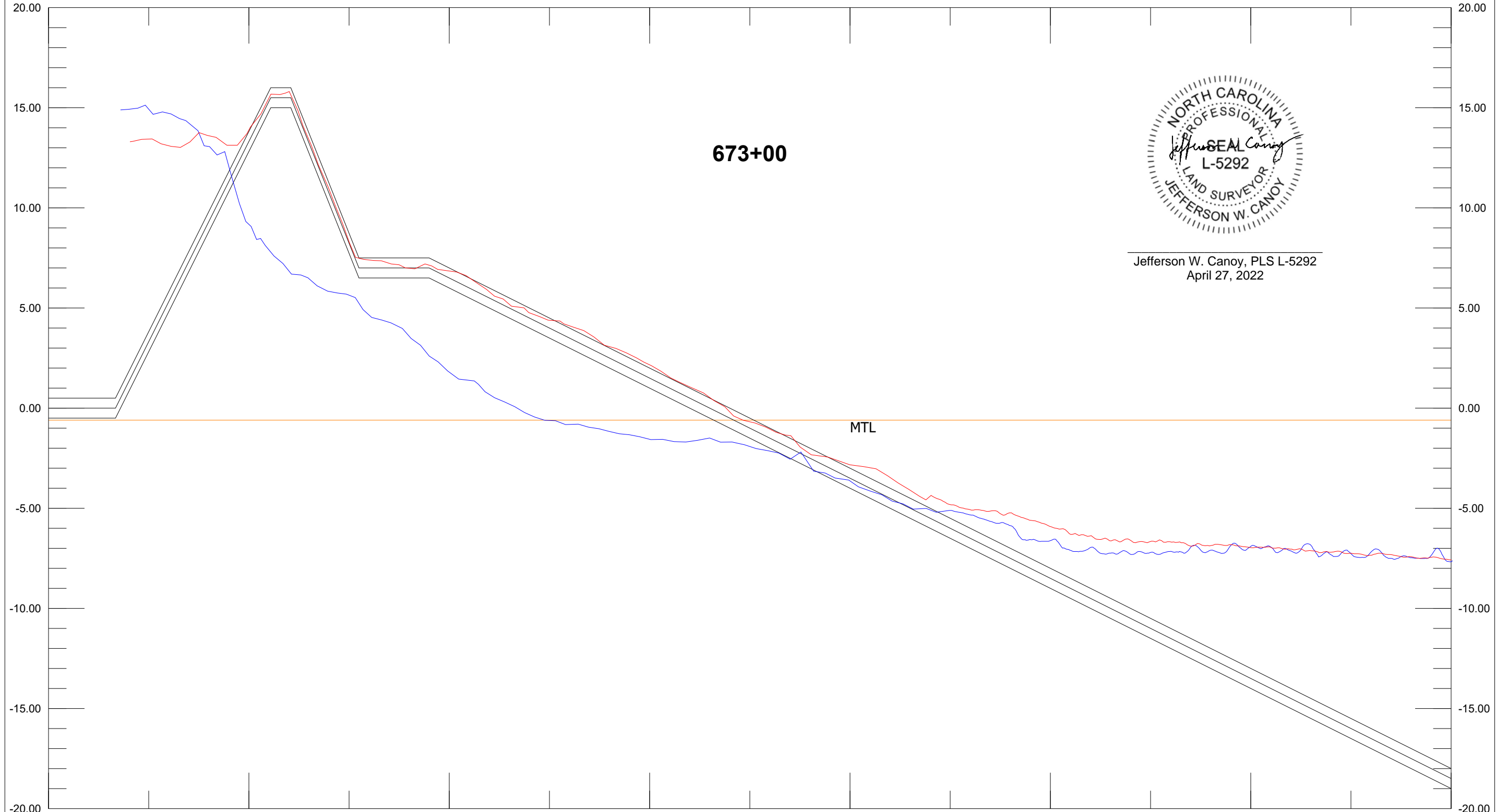
X: 2234719.89 672+00 Length: 1750.00 Azimuth: 184.95 X: 2234568.83
Y: 60454.98 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58711.51



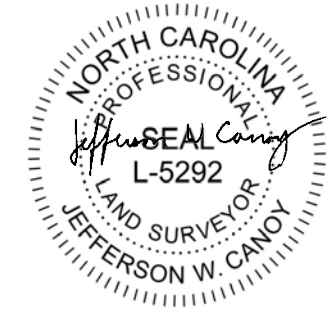
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Base Survey 672+00 AD 672+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

X: 2234620.26 673+00 Length: 1750.00 Azimuth: 184.95 X: 2234469.20
Y: 60463.62 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



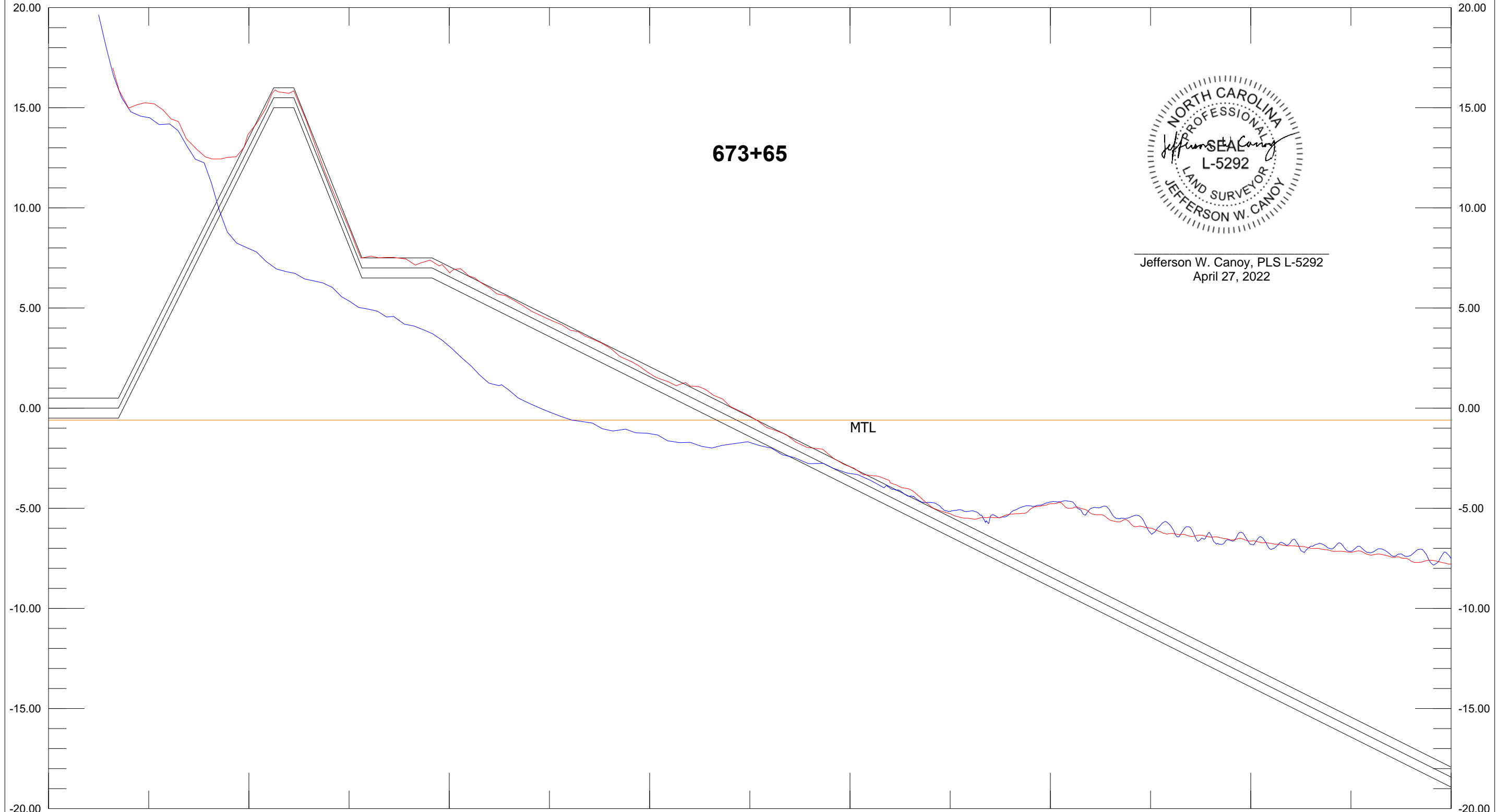
673+00



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Base Survey AD Template DBL 50.00 Ft:In
673+00 673+00 Depth 5.00 Ft:In

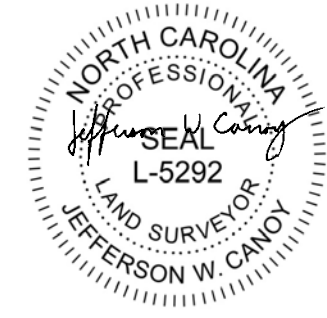
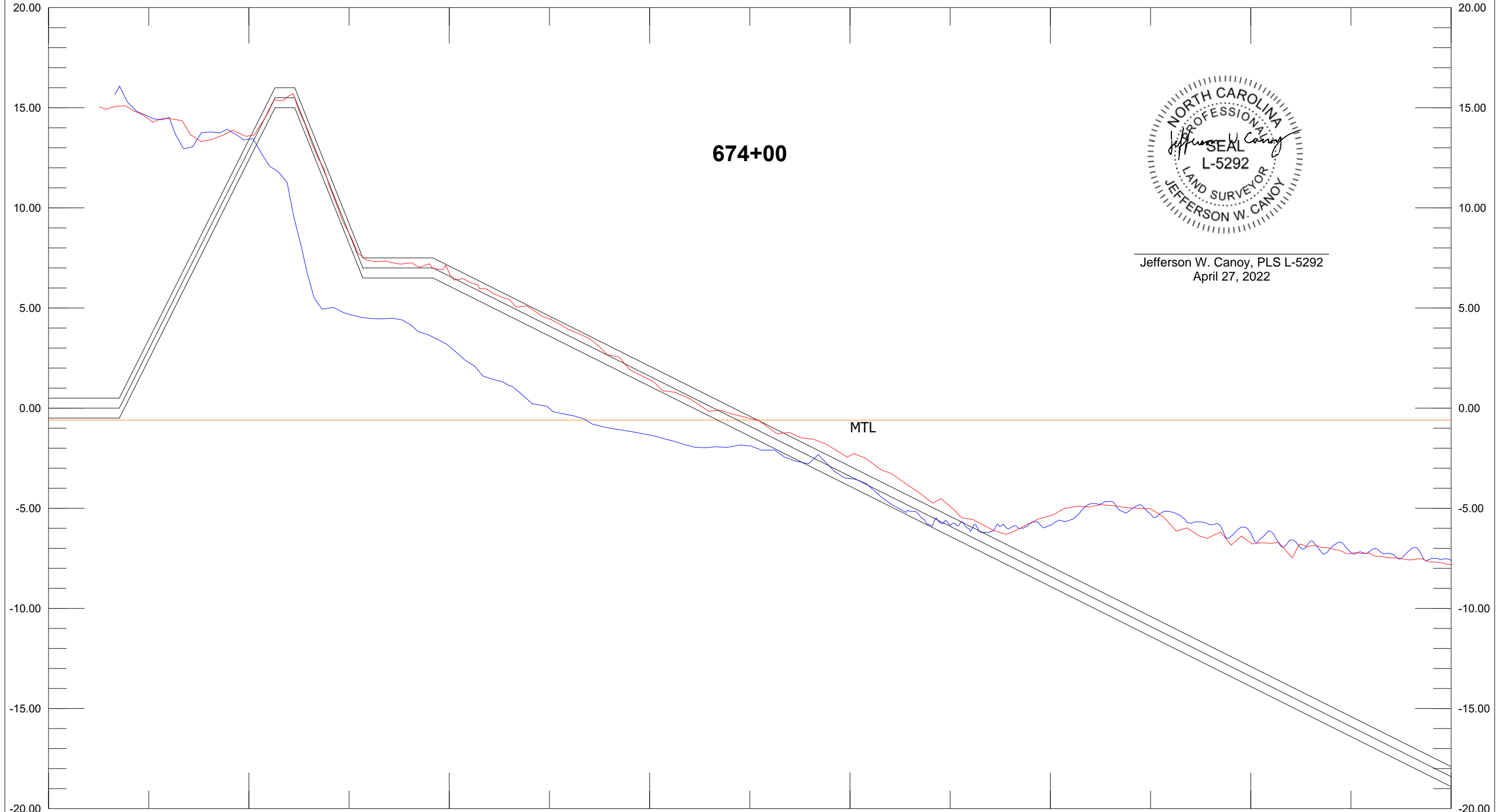
X: 2234548.67 673+65 Length: 1750.00 Azimuth: 183.51 X: 2234441.38
Y: 60470.13 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58723.42



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Base Survey AD Template DBL 50.00 Ft:In
673+65 673+65 Depth 5.00 Ft:In

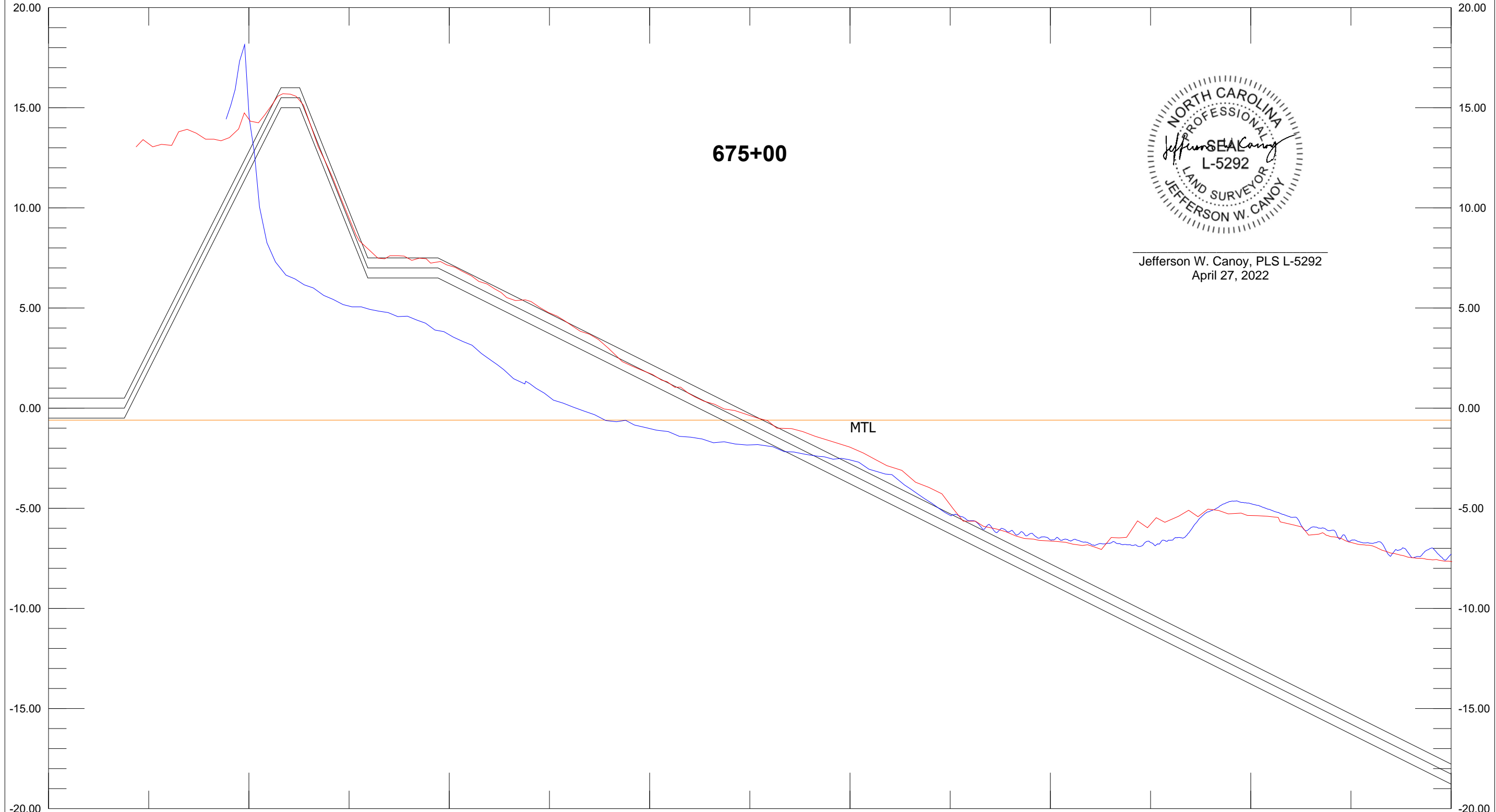
X: 2234514.32 674+00 Length: 1750.00 Azimuth: 183.51 X: 2234407.03
Y: 60471.85 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey 674+00 AD 674+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

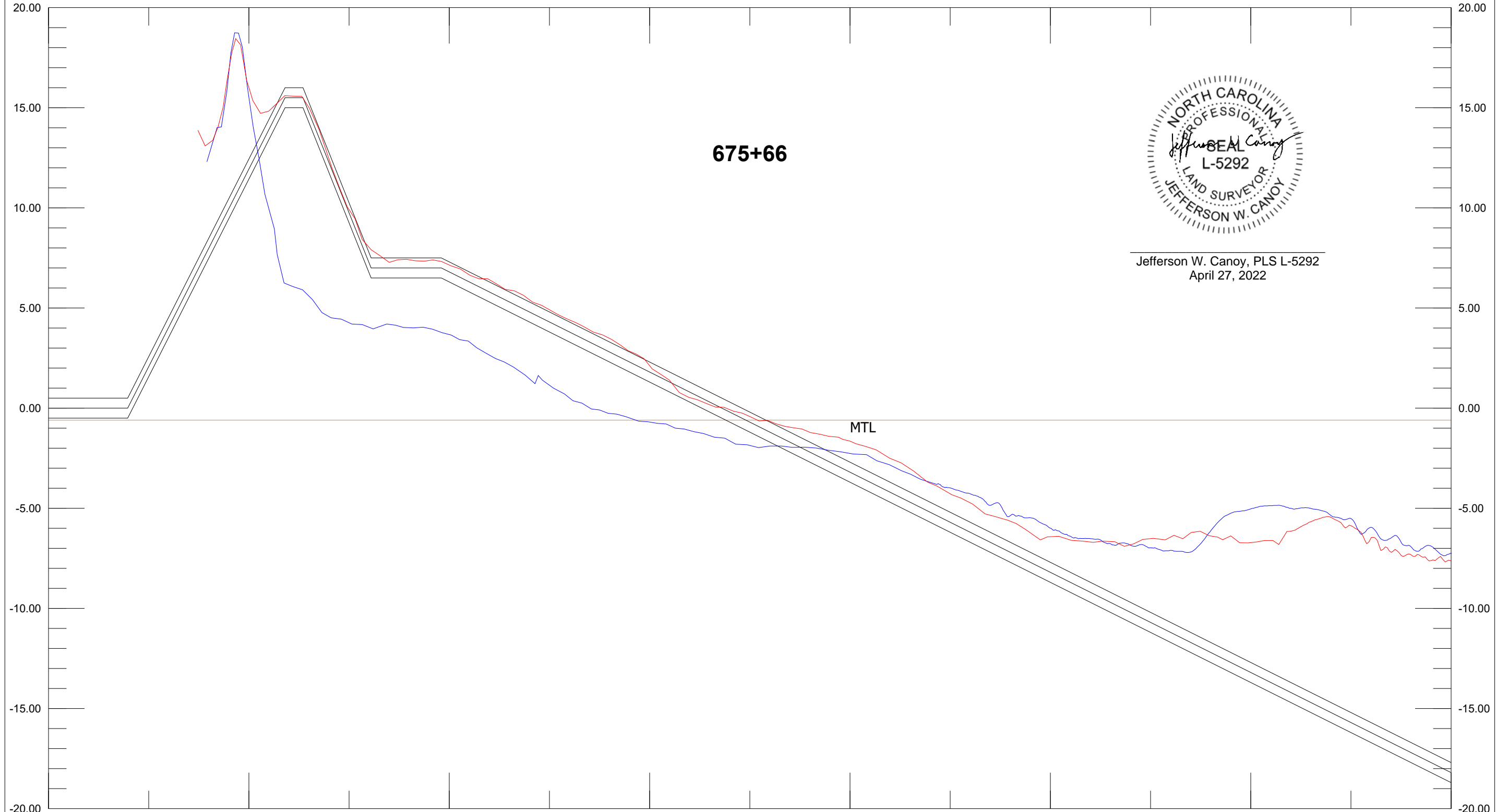
X: 2234414.51 675+00 Length: 1750.00 Azimuth: 183.51 X: 2234307.22
Y: 60477.98 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58731.27



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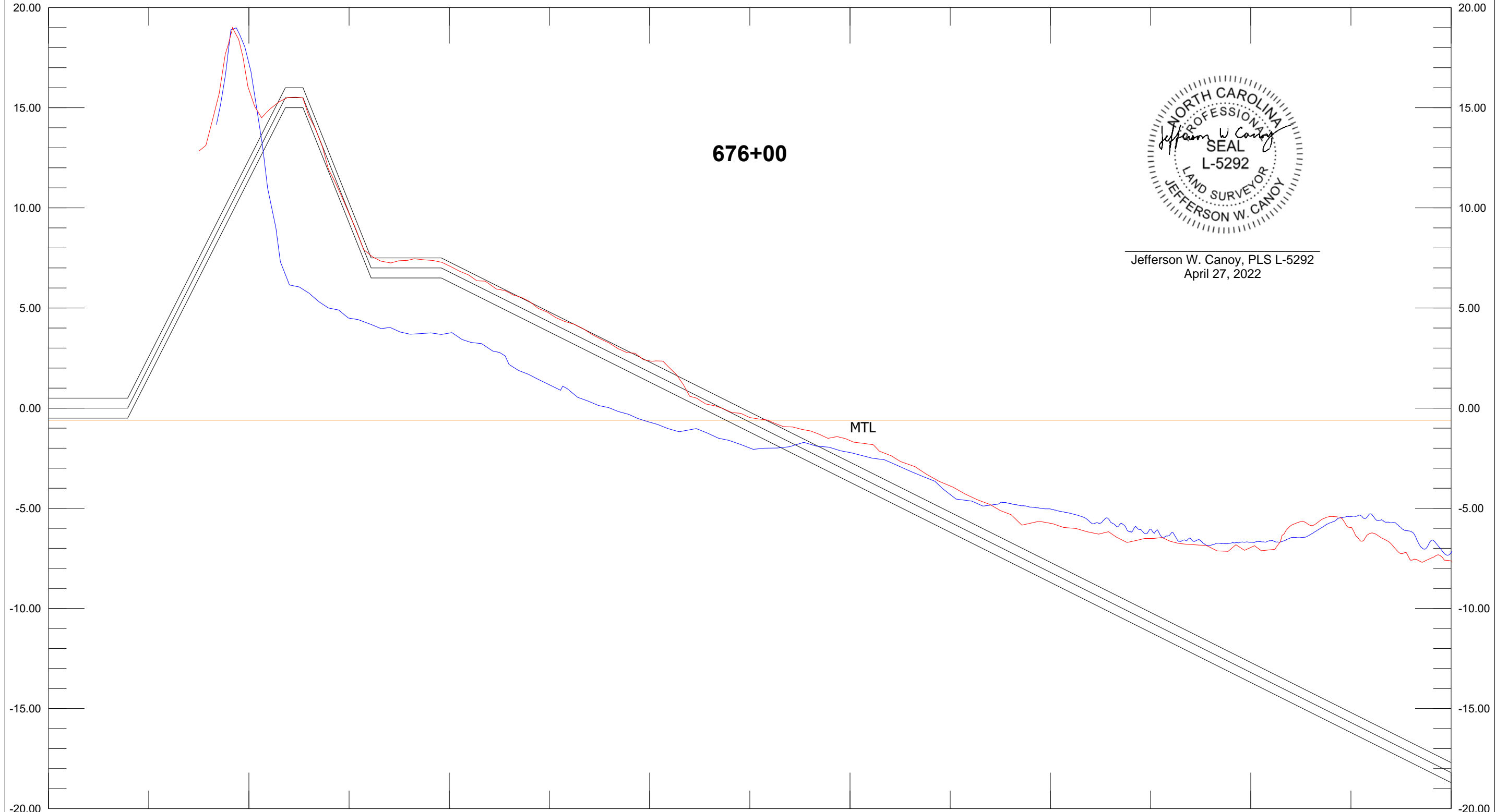
Base Survey AD Template DBL 50.00 Ft:In
675+00 675+00 Depth 5.00 Ft:In

X: 2234341.68 675+66 Length: 1750.01 Azimuth: 182.05 X: 2234279.17
Y: 60482.38 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58733.49



Base Survey AD Template DBL 50.00 Ft:In
675+66 675+66 Depth 5.00 Ft:In

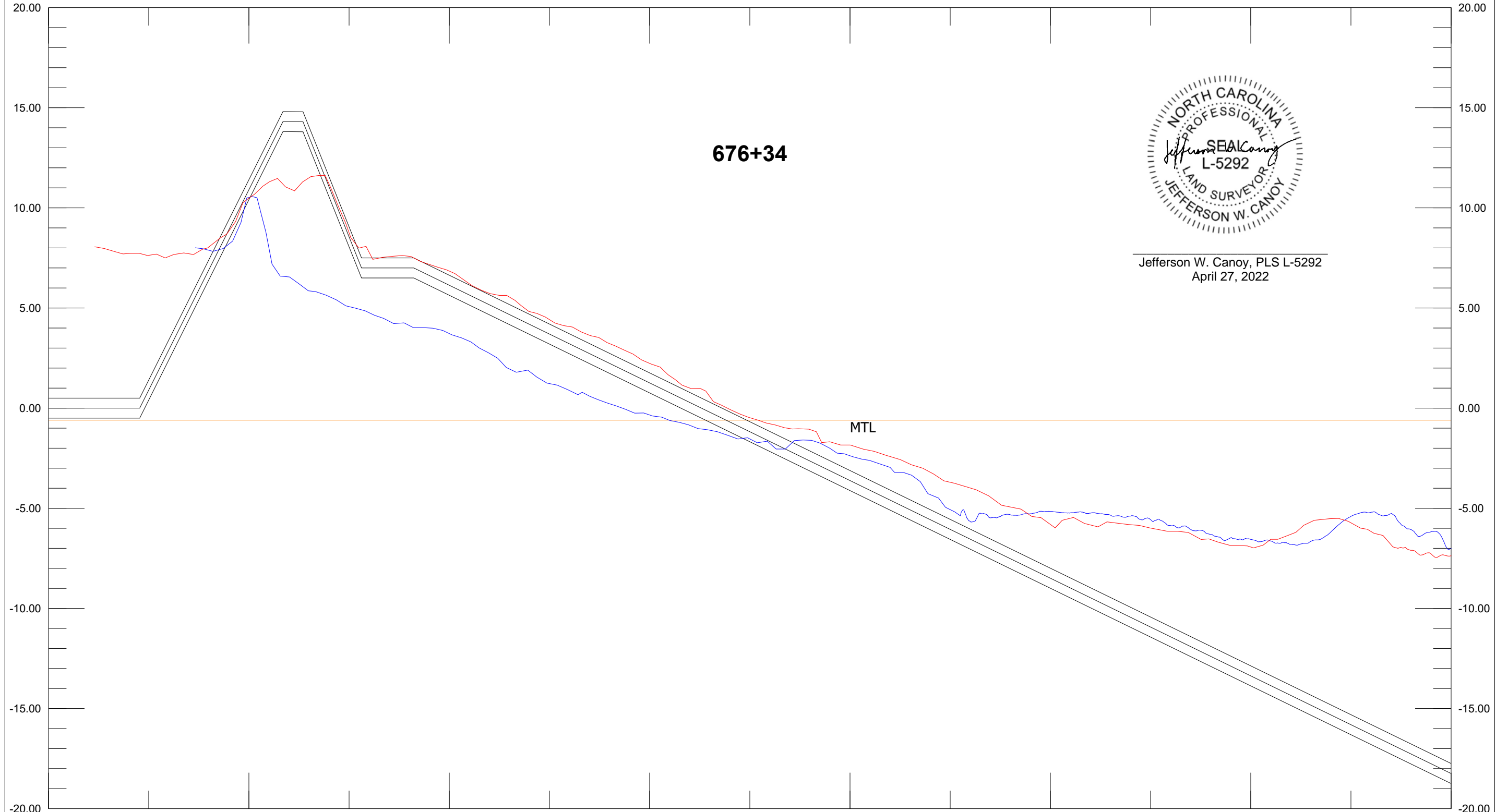
X: 2234308.37 676+00 Length: 1750.01 Azimuth: 182.07 X: 2234245.07
Y: 60483.58 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
676+00 676+00

X: 2234274.10 676+34 Length: 1750.01 Azimuth: 182.07 X: 2234210.80
Y: 60484.82 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58735.96



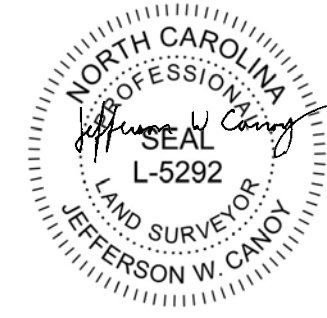
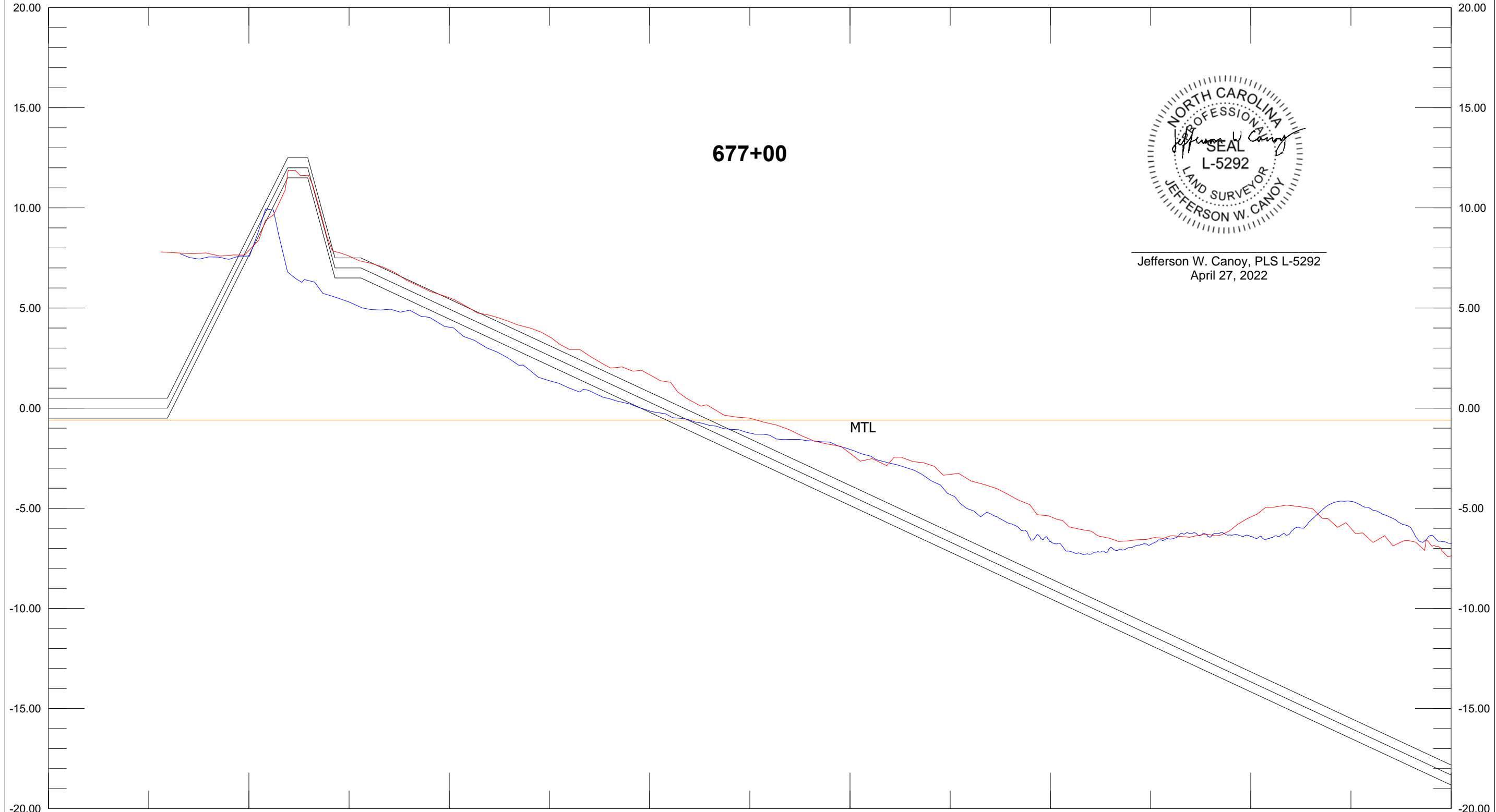
676+34



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Base Survey AD Template DBL 50.00 Ft:In
676+34 676+34 Depth 5.00 Ft:In

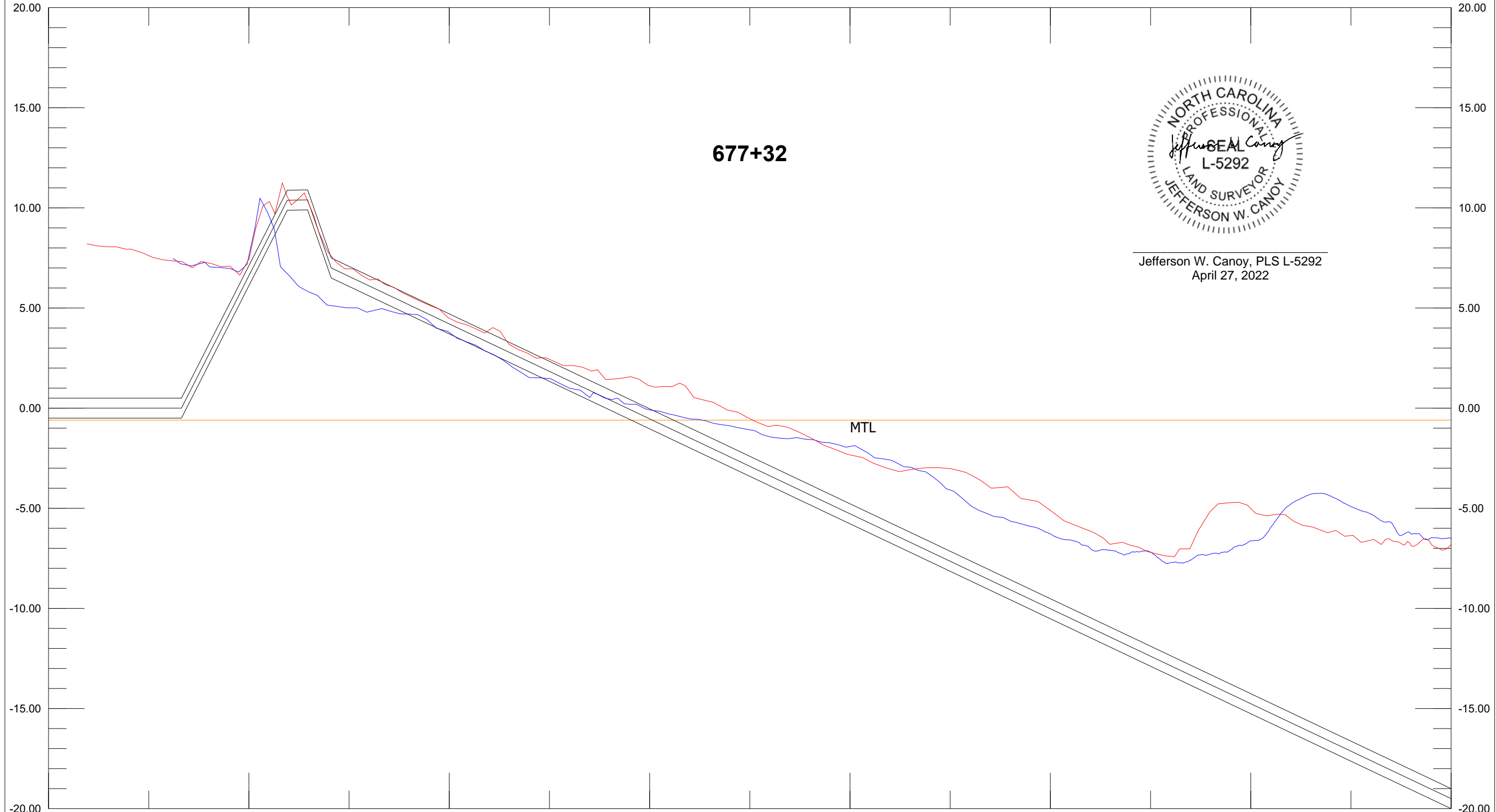
X: 2234208.49 677+00 Length: 1749.99 Azimuth: 182.09 X: 2234144.79
Y: 60487.20 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58738.37



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Base Survey AD Template DBL 50.00 Ft:In
677+00 677+00 Depth 5.00 Ft:In

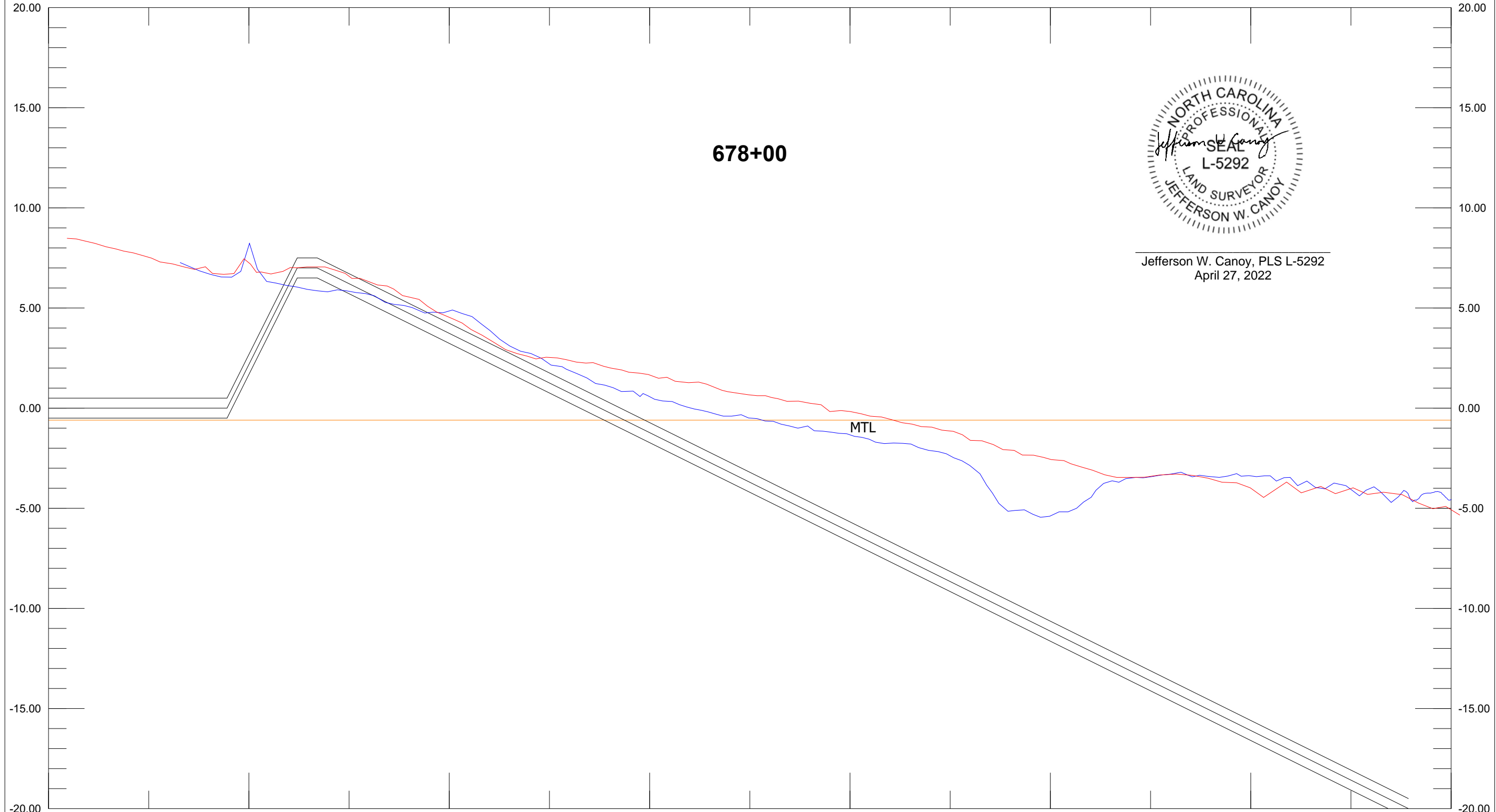
X: 2234188.63 677+32 Length: 1749.98 Azimuth: 185.42 X: 2234023.33
Y: 60486.25 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey AD Template DBL 50.00 Ft:In
677+32 677+32 Depth 5.00 Ft:In

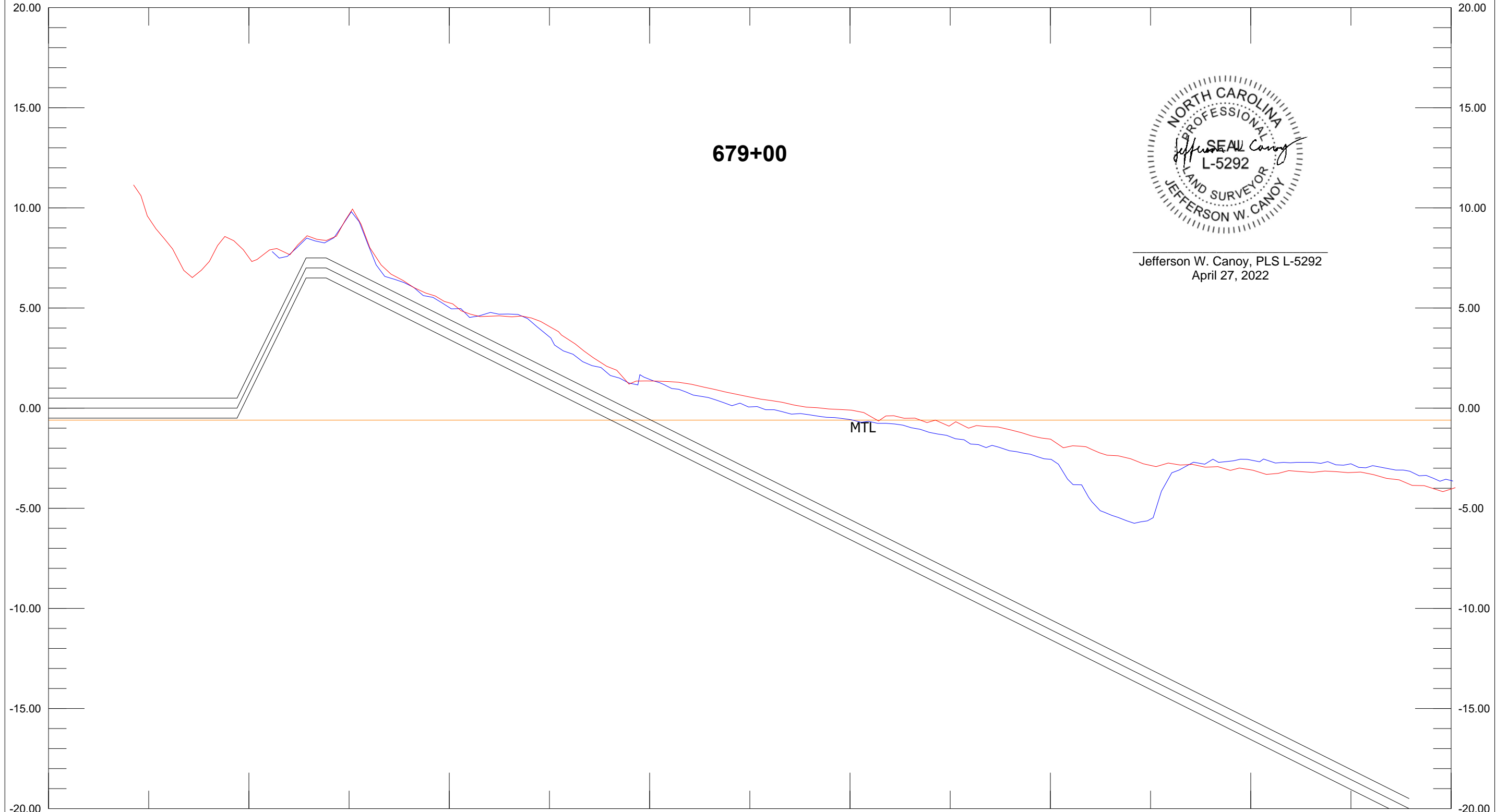
X: 2234181.19 678+00 Length: 1750.00 Azimuth: 198.29 X: 2233632.06
Y: 60496.61 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00



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Base Survey 678+00 AD 678+00 Template DBL 50.00 Ft:In Depth 5.00 Ft:In

X: 2234086.24 679+00 Length: 1750.00 Azimuth: 198.29 X: 2233537.11
Y: 60527.99 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
20.00



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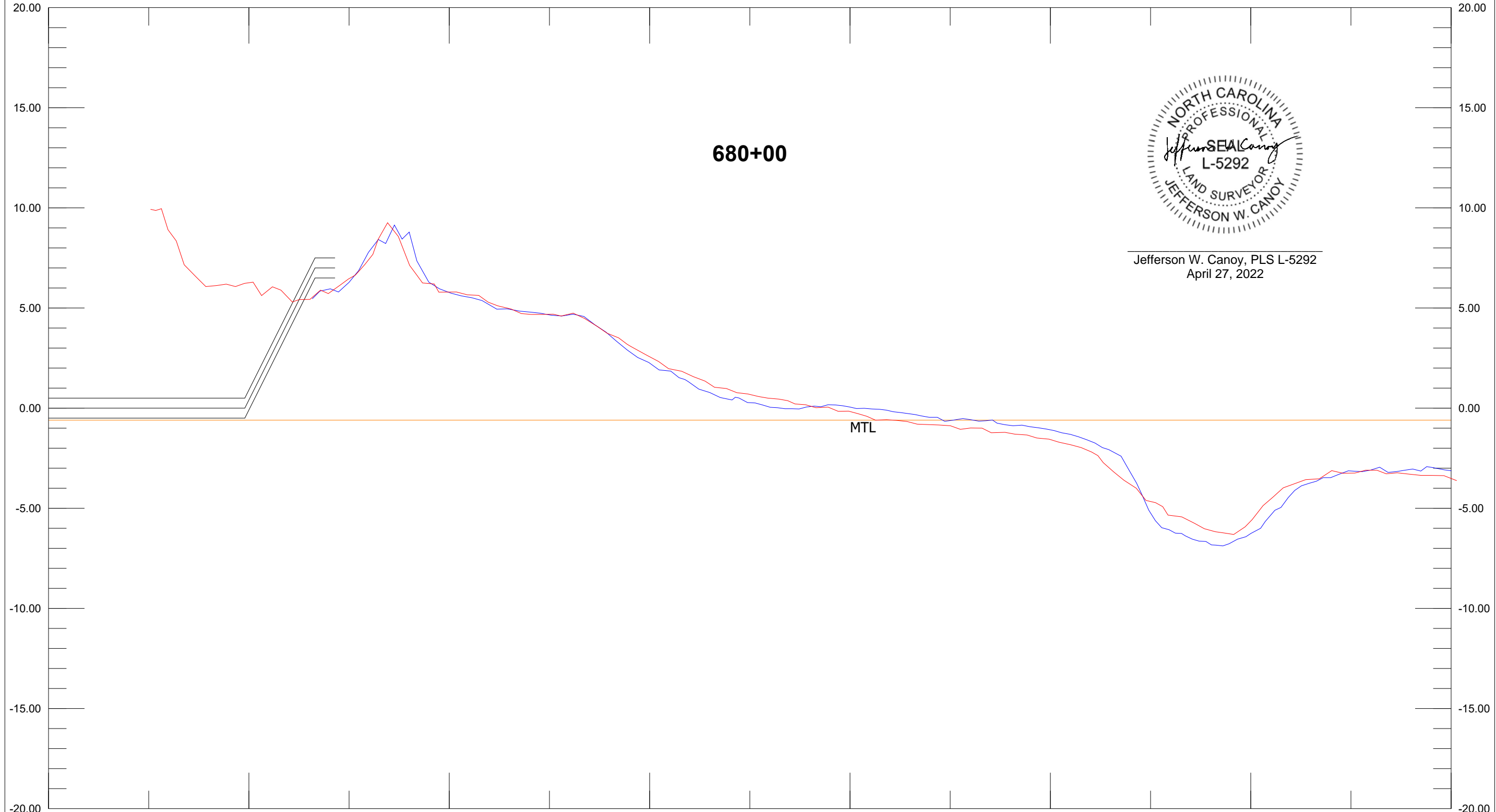
Base Survey AD Template DBL 50.00 Ft:In
679+00 679+00 Depth 5.00 Ft:In

X: 2233991.29 680+00 Length: 1750.00 Azimuth: 198.29 X: 2233442.16
Y: 60559.37 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00
Y: 58897.76

680+00



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Base Survey AD Template DBL 50.00 Ft:In
680+00 680+00