

REFERENCE: R-5808

PROJECT: 46972

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

CONTENTS

<u>LINE</u>	<u>STATION</u>	<u>PLAN</u>	<u>PROFILE</u>
-L-	17+59 to 234+37	4-22	23-30

CROSS SECTIONS

<u>LINE</u>	<u>STATION</u>	<u>SHEET</u>
-L-	18+00 TO 234+00	31-463

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

ROADWAY
SUBSURFACE INVESTIGATION

COUNTY GATES
PROJECT DESCRIPTION US 158 FROM THE
INTERSECTION OF SR 1002 (ACORN HILL ROAD)
AND US 158 TO THE PASQUOTANK COUNTY LINE

RECOMMENDATIONS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5808	1	463

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT, AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:
- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
 - BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

CATLIN PERSONNEL

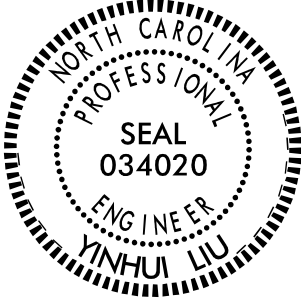
INVESTIGATED BY L. STONE PG

DRAWN BY L. STONE PG

CHECKED BY S. HUDSON PG

SUBMITTED BY L. STONE PG

DATE June 2024



DocuSigned by:

Yinhui Liu

6/13/2024

673A8A76BCF14BE...
SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DocuSigned by:

Joseph L. Stone

6/13/2024

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SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
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SOIL DESCRIPTION

SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM, BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, *VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6*

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤ 35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)							ORGANIC MATERIALS		
GROUP CLASS.	A-1	A-1-b	A-3	A-2-4	A-2-5	A-2-6	A-2-7	A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7				
SYMBOL																	
% PASSING #10 #40 #200	50 MX 30 MX 15 MX	50 MX 25 MX 10 MX	51 MN 10 MX	35 MX 35 MX 35 MX	35 MX 35 MX 35 MX	36 MN 36 MN 36 MN	36 MN 36 MN 36 MN										
MATERIAL PASSING #40 LL PI	— 6 MX		— NP	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN						
GROUP INDEX	0		0	0		4 MX		8 MX 12 MX		16 MX NO MX							
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS, GRAVEL, AND SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND			SILTY SOILS			CLAYEY SOILS			SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER				
GEN. RATING AS SUBGRADE	EXCELLENT TO GOOD							FAIR TO POOR					FAIR TO POOR	POOR	UNSATISFACTORY		

CONSISTENCY OR DENSENESS

PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF STANDARD PENETRATION RESISTANCE (N-VALUE)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH (TENS/FT ²)
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	< 4 4 TO 10 10 TO 30 30 TO 50 > 50	N/A
GENERALLY SILT-CLAY MATERIAL (COHESIVE)	VERY SOFT SOFT MEDIUM STIFF STIFF VERY STIFF HARD	< 2 2 TO 4 4 TO 8 8 TO 15 15 TO 30 > 30	< 0.25 0.25 TO 0.5 0.5 TO 1.0 1 TO 2 2 TO 4 > 4

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE OPENING (MM)	4	10	40	60	200	270
	4.75	2.00	0.42	0.25	0.075	0.053
BOULDER (BLDR.)	COBBLE (COB.)	GRAVEL (GR.)	COARSE SAND (CSE, SD.)	FINE SAND (F SD.)	SILT (SL.)	CLAY (CL.)

GRAIN SIZE	MM 305	75	2.0	0.25	0.05	0.005
	IN. 12	3				

SOIL MOISTURE - CORRELATION OF TERMS

SOIL MOISTURE SCALE (ATTERBERG LIMITS)	FIELD MOISTURE DESCRIPTION	GUIDE FOR FIELD MOISTURE DESCRIPTION	
LL PLASTIC RANGE (PI) PL	LIQUID LIMIT	- SATURATED - (SAT.)	USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE
	PLASTIC LIMIT	- WET - (W)	SEMI-SOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
		- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
OM SL	OPTIMUM MOISTURE SHRINKAGE LIMIT	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX (PI)	DRY STRENGTH
NON PLASTIC	0-5	VERY LOW
SLIGHTLY PLASTIC	6-15	SLIGHT
MODERATELY PLASTIC	16-25	MEDIUM
HIGHLY PLASTIC	26 OR MORE	HIGH

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY). MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.

GRADATION

WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.
UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE.
GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.

ANGULARITY OF GRAINS

THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS:
ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.

MINERALOGICAL COMPOSITION

MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.

COMPRESSIBILITY

SLIGHTLY COMPRESSIBLE	LL < 31
MODERATELY COMPRESSIBLE	LL = 31 - 50
HIGHLY COMPRESSIBLE	LL > 50

PERCENTAGE OF MATERIAL

ORGANIC MATERIAL	GRANULAR SOILS	SILT - CLAY SOILS	OTHER MATERIAL
TRACE OF ORGANIC MATTER	2 - 3%	3 - 5%	TRACE 1 - 10%
LITTLE ORGANIC MATTER	3 - 5%	5 - 12%	LITTLE 10 - 20%
MODERATELY ORGANIC	5 - 10%	12 - 20%	SOME 20 - 35%
HIGHLY ORGANIC	> 10%	> 20%	HIGHLY 35% AND ABOVE

GROUND WATER

WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING

STATIC WATER LEVEL AFTER 24 HOURS

PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA

SPRING OR SEEP

MISCELLANEOUS SYMBOLS

ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION

SOIL SYMBOL

ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT

INFERRED SOIL BOUNDARY

INFERRED ROCK LINE

ALLUVIAL SOIL BOUNDARY

DIP & DIP DIRECTION OF ROCK STRUCTURES

TEST BORING

AUGER BORING

CORE BORING

MONITORING WELL

PIEZOMETER INSTALLATION

SLOPE INDICATOR INSTALLATION

CONE PENETROMETER TEST

SOUNDING ROD

TEST BORING WITH CORE

SPT N-VALUE

RECOMMENDATION SYMBOLS

UNDERCUT

SHALLOW UNDERCUT

UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE

UNCLASSIFIED EXCAVATION - ACCEPTABLE DEGRADABLE ROCK

ABBREVIATIONS

AR - AUGER REFUSAL

BT - BORING TERMINATED

CL. - CLAY

CPT - CONE PENETRATION TEST

CSE. - COARSE

DMT - DILATOMETER TEST

DPT - DYNAMIC PENETRATION TEST

e - VOID RATIO

F - FINE

FOSS. - FOSSILIFEROUS

FRAC. - FRACTURED, FRACTURES

FRAGS. - FRAGMENTS

HL. - HIGHLY

MED. - MEDIUM

MICA. - MICACEOUS

MOD. - MODERATELY

NP - NON PLASTIC

ORG. - ORGANIC

PMT - PRESSUREMETER TEST

SAP. - SAPROLITIC

SD. - SAND, SANDY

SL. - SILT, SILTY

SLI. - SLIGHTLY

TRC. - TRICONE REFUSAL

w - MOISTURE CONTENT

V - VERY

VST - VANE SHEAR TEST

WEA. - WEATHERED

UNIT WEIGHT

DRY UNIT WEIGHT

SAMPLE ABBREVIATIONS

S - BULK

SS - SPLIT SPOON

ST - SHELBY TUBE

RS - ROCK

RT

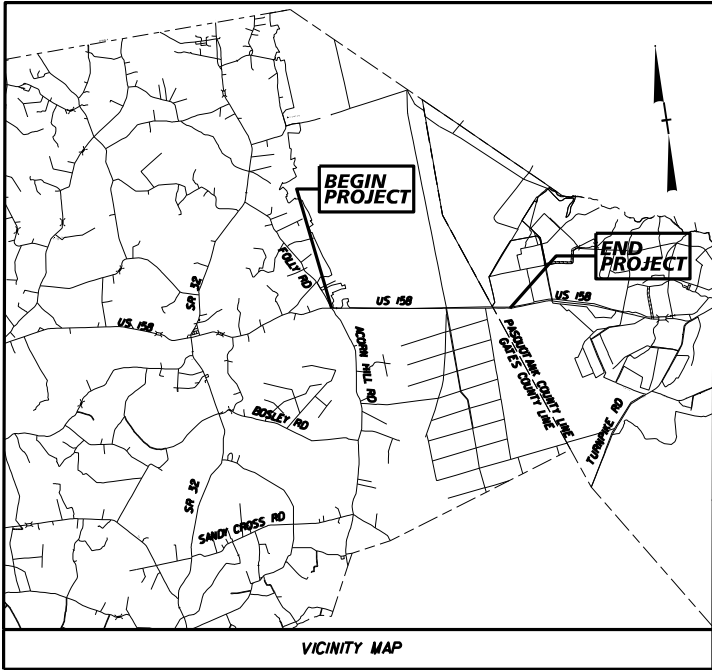
09/08/2007

R-5808

TIP PROJECT:

CONTRACT:

\$DATE\$



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GATES COUNTY

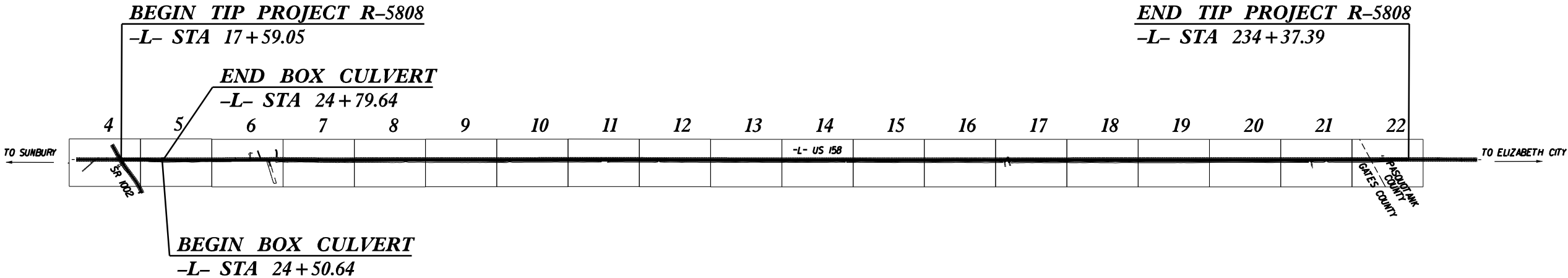
LOCATION: US 158 FROM THE INTERSECTION OF SR 1002
(ACORN HILL ROAD) AND US 158 TO THE PASQUOTANK COUNTY LINE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, AND CULVERT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5808	3	463
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
46972.1.1	NHP-0158(076)		

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

65% PLANS

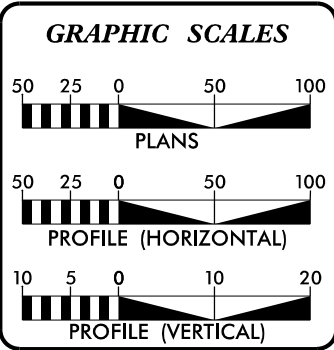


INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SUBMITTAL:
DATE: June, 2022

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARY



DESIGN DATA	
ADT 2023	= 4,300
ADT 2043	= 6,200
K	= 10%
D	= 55%
T	= 12%
V	= 60 MPH
CLASSIFICATION:	
OTHER PRINCIPAL ARTERIAL	
* 7% TTST 5% DUAL STATEWIDE TIER	

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT R-5808	= 4.101 MILES
LENGTH OF STRUCTURE TIP PROJECT R-5808	= .005 MILES
TOTAL LENGTH TIP PROJECT R-5808	= 4.106 MILES

Prepared in the Office of:	
Kimley»Horn	
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: AUGUST 23, 2022	VINCENT RICCIO, PE PROJECT ENGINEER
	BRANDON GREGG, PE PROJECT DESIGN ENGINEER
	RYAN SHOOK PROJECT MANAGER NCDOT HIGHWAY DIVISION
LETTING DATE: JULY 18, 2023	

HYDRAULICS ENGINEER	
SIGNATURE:	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE:	P.E.



5/14/99

REVISIONS

\$DATE\$

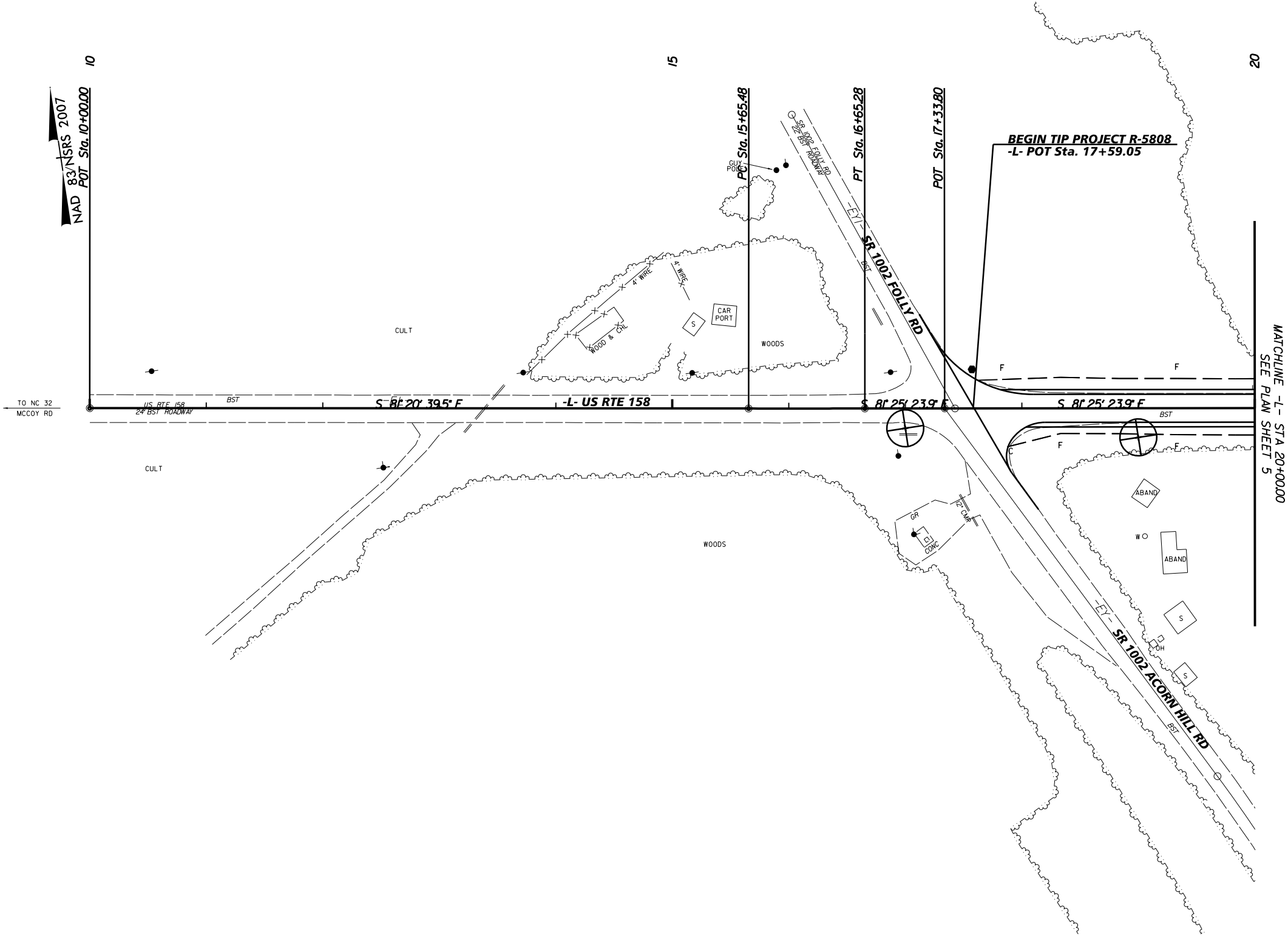
-L-

PI Sta 16+15.38
Δ = 0° 04' 44.4" (LT)
D = 0° 04' 45.0"
L = 99.80'
T = 49.90'
R = 72,370.32'

Kimley»Horn
4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

**CATLIN**
Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.		SHEET NO.
R-5808		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

-L-

PI Sta 21+61.22

$\Delta = 1^{\circ}34'37.8"$ (RT)

$D = 0^{\circ}29'53.6"$

$L = 316.56'$

$T = 158.29'$

$R = 11,500.00'$

PI Sta 24+74.63

$\Delta = 1^{\circ}32'44.9"$ (LT)

$D = 0^{\circ}29'53.6"$

$L = 310.26'$

$T = 155.14'$

$R = 11,500.00'$

Kimley»Horn

4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

CATLIN

Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.
R-5808

SHEET NO.
5

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

The plan view shows a horizontal section of L-158 highway. The highway is represented by a double line with a dashed centerline. Stationing is marked along the top of the plan, with major stations at 20, 25, and 30. Matchlines are indicated at both ends: 'MATCHLINE -L- STA 20+00.00 SEE PLAN SHEET 4' on the left and 'MATCHLINE -L- STA 33+00.00 SEE PLAN SHEET 6' on the right. A vertical line labeled 'PT Sta. 26+29.75' intersects the highway. Another vertical line labeled 'P/C Sta. 23+19.49' is shown. A dashed line with arrows pointing to it is labeled 'APPROXIMATE LIMIT OF ORGANIC SOILS'. The area between the highway and the limit line is filled with a pattern of small circles and crosses, representing organic soils. The area to the right of the limit line is labeled 'WOODS'. The highway is labeled 'L-158 US RTE 158'. The plan also shows various other features like trees, utility poles, and a north arrow pointing towards the top right.

REVISIONS

\$DATE\$

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

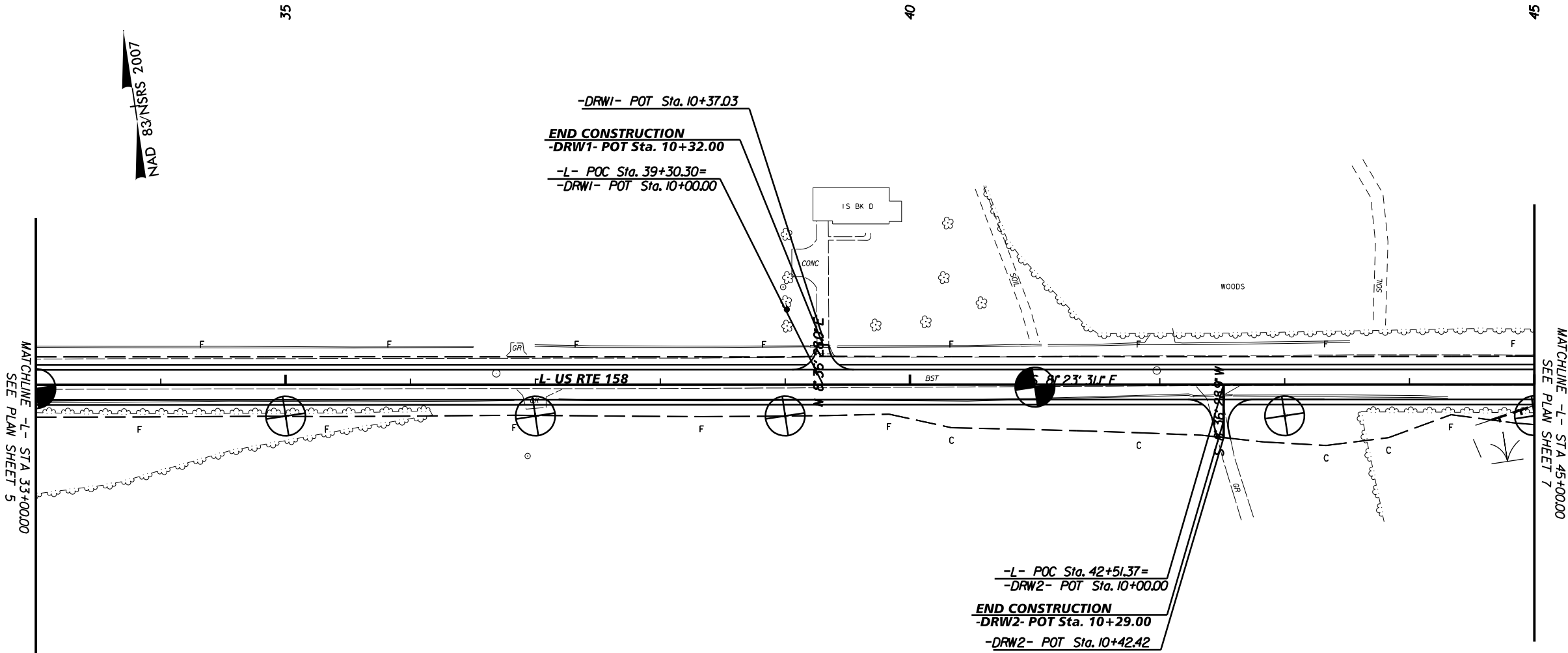
REVISIONS

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Kimley»Horn
4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

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Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.		SHEET NO.
R-5808		6
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
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SEE SHEET NO. 23 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/98

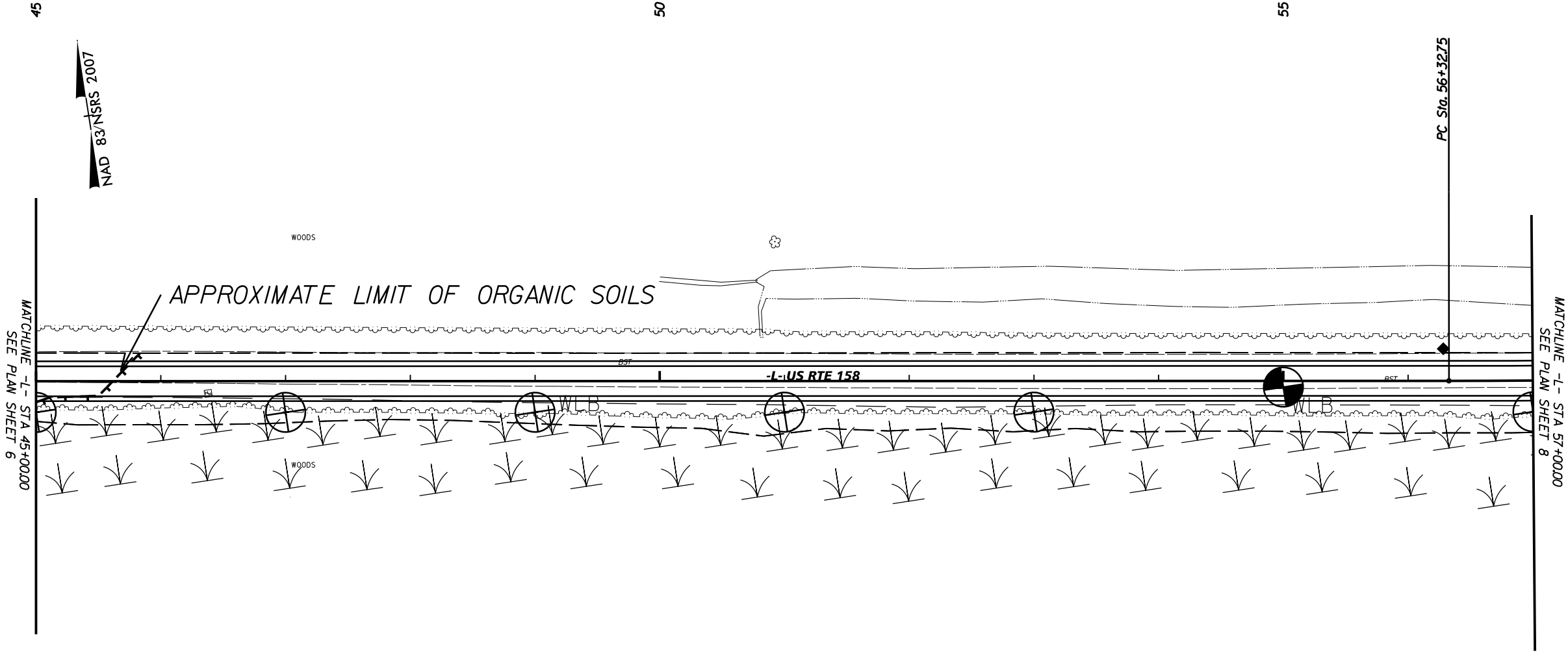
-L-
PI Sta 56+83.31
Δ = 0° 25' 44.9" (LT)
D = 0° 25' 27.9"
L = 10111'
T = 50.56'
R = 13,500.00'

Kimley»Horn
4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

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Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.		SHEET NO.
R-5808		7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

REVISIONS



\$DATE\$

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

<i>PI Sta 56+83.31</i>	<i>PI Sta 59+83.31</i>
$\Delta = 0^\circ 25' 44.9" \text{ (LT)}$	$\Delta = 0^\circ 26' 17.4" \text{ (RT)}$
$D = 0^\circ 25' 27.9"$	$D = 0^\circ 25' 27.9"$
$L = 101.11'$	$L = 103.24'$
$T = 50.56'$	$T = 51.62'$
$R = 13,500.00'$	$R = 13,500.00'$

PI Sta 56+83.31
 $\Delta = 0^\circ 25' 44.9''$ (LT)
 $D = 0^\circ 25' 27.9''$
 $L = 10111'$
 $T = 50.56'$
 $R = 13,500.00'$

PI Sta 59+83.31
 $\Delta = 0^\circ 26' 17.4''$ (RT)
 $D = 0^\circ 25' 27.9''$
 $L = 103.24'$
 $T = 51.62'$
 $R = 13,500.00'$

MATCHLINE -L- STA 57+00.00
SEE PLAN SHEET 7

PT Sta. 57+33.86

NAD 83/N'SRS 2007

PC Std. 59+31.69

PT Std. 60+34.93

4. 5 =

MATCHLINE -L- STA 69+00.00
SEE PLAN SHEET 9

SEE SHEET NO. 24 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/98

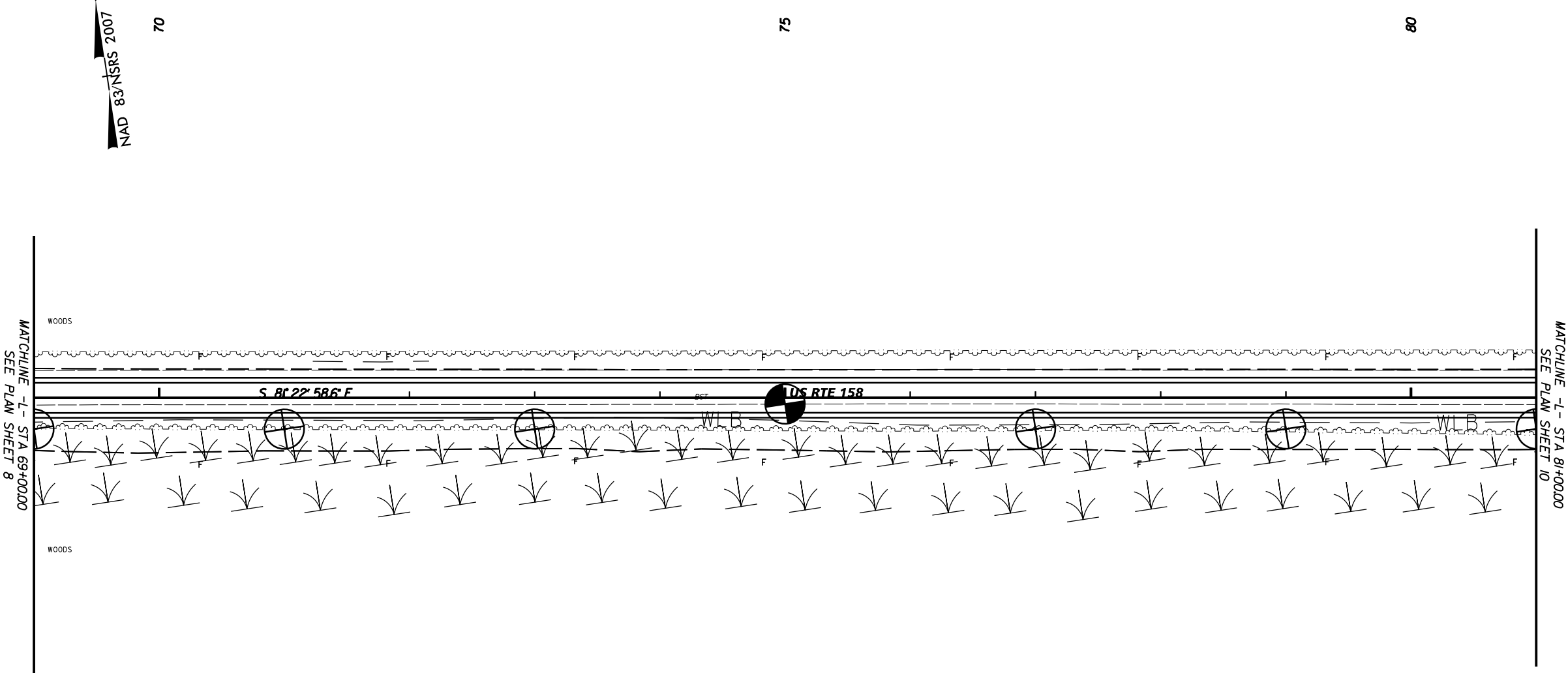
REVISIONS

\$DATE\$

Kimley»Horn
4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

**CATLIN**
Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.		SHEET NO.
R-5808		9
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
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SEE SHEET NO. 24 AND 25 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

REVISIONS

\$DATE\$

-L-

PI Sta 82+51.22

$\Delta = 0^{\circ}09'36.0"$ (LT)

$D = 0^{\circ}09'17.5"$

$L = 103.32'$

$T = 51.66'$

$R = 37,000.00'$

PI Sta 89+96.70

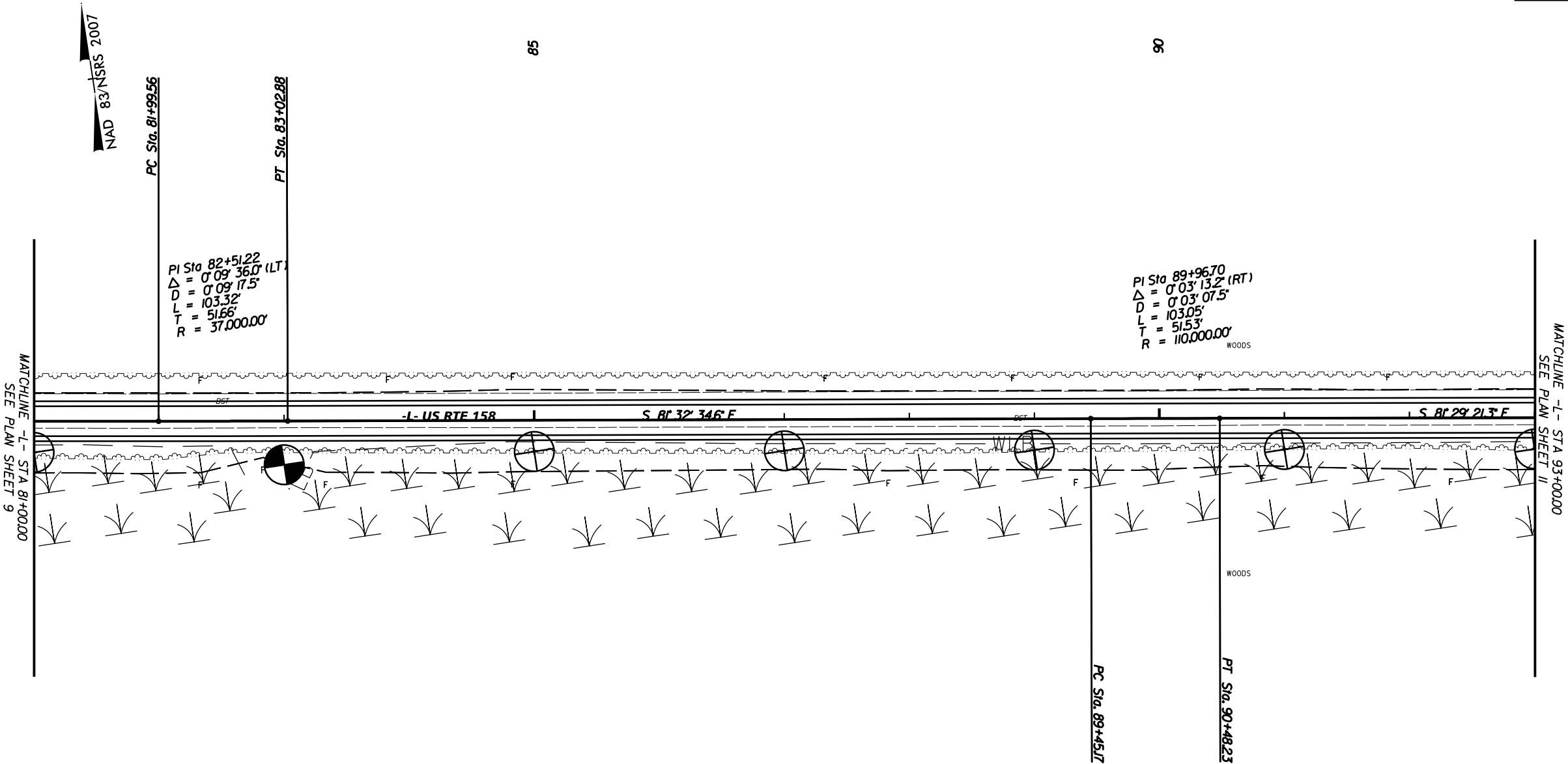
$\Delta = 0^{\circ}03'13.2"$ (RT)

$D = 0^{\circ}03'07.5"$

$L = 103.05'$

$T = 51.53'$

$R = 110,000.00'$



Kimley»Horn

4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

**CATLIN**
Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.
R-5808

SHEET NO.
10

R/W SHEET NO.

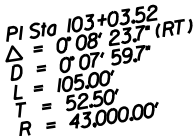
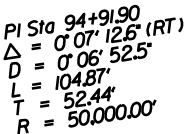
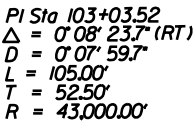
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

SEE SHEET NO. 25 AND 26 FOR -L- PROFILE

DO NOT USE FOR R/W ACQUISITION

5/14/99

REVISIONS

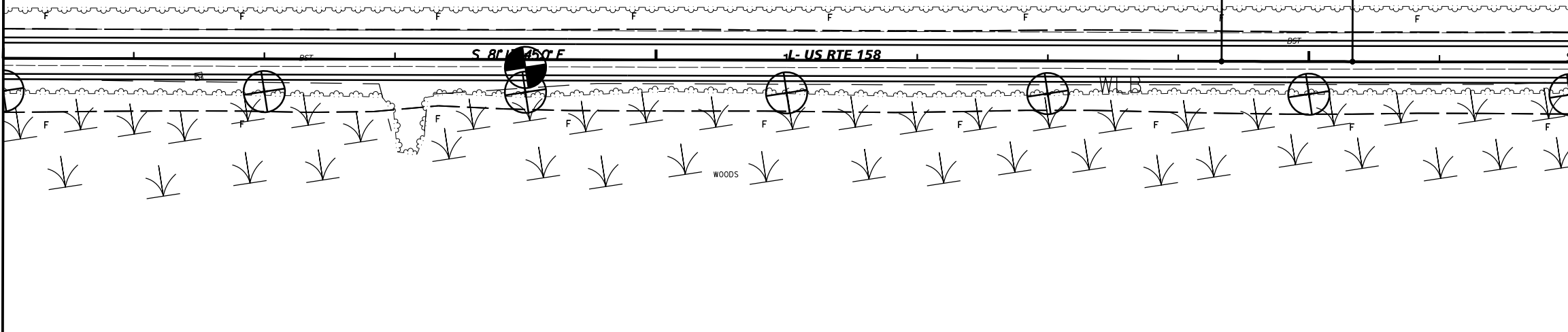
\$DATE\$

-L-

PI Sta 114+83.26
Δ = 0° 02' 45.5" (LT)
D = 0° 02' 45.0"
L = 100.27'
T = 5013'
R = 125,000.00'

NAD 83/NSRS 2007

MATCHLINE -L- STA 105+00.00
SEE PLAN SHEET 11



PI Sta 114+83.26
Δ = 0° 02' 45.5" (LT)
D = 0° 02' 45.0"
L = 100.27'
T = 5013'
R = 125,000.00'

PC Sta. 114+33.12

PT Sta. 115+33.39

MATCHLINE -L- STA 117+00.00
SEE PLAN SHEET 13

Kimley»Horn

4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

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Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.

R-5808

SHEET NO.

12

R/W SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SEE SHEET NO. 26 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

-7-

Pl Sta 119+83.31
 $\Delta = 0^\circ 07' 00.6''$ (LT)
 $D = 0^\circ 06' 52.5''$
 $L = 101.95'$
 $T = 50.97'$
 $R = 50,000.00'$

REVISIONS

MATCHLINE -L- STA 117+00.00
SEE PLAN SHEET 12

NAD 83/NRS 2007

PC Std. 119+32.33

120

PT Sta. 120+34.28

-L- US RTE 158

125

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SEE PLAN SHEET 14

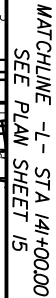
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SEE SHEET NO. 26 AND 27 FOR -L- PROFILE

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	<i>R-5808</i>		<i>13</i>	
	R/W SHEET NO.			
	ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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PROJECT REFERENCE NO.		SHEET NO.	
R-5808		14	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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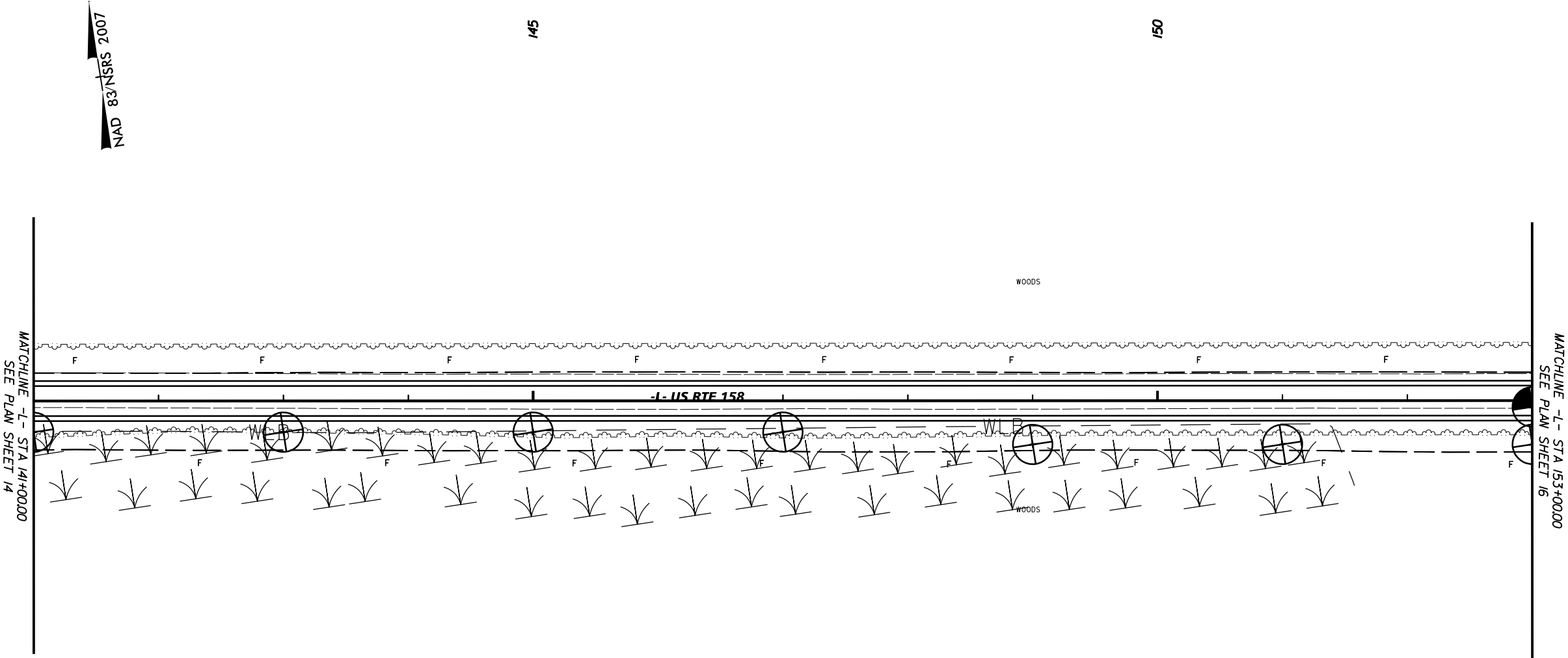
REVISIONS

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VIRGINIA BEACH, VA 23462

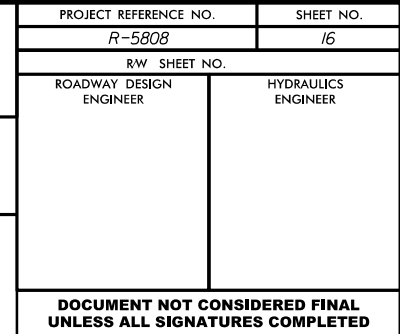
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Washington, North Carolina

PROJECT REFERENCE NO.		SHEET NO.
R-5808		15
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		
HYDRAULICS ENGINEER		
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SEE SHEET NO. 27 FOR -L- PROFILE

INCOMPLETE PLANS
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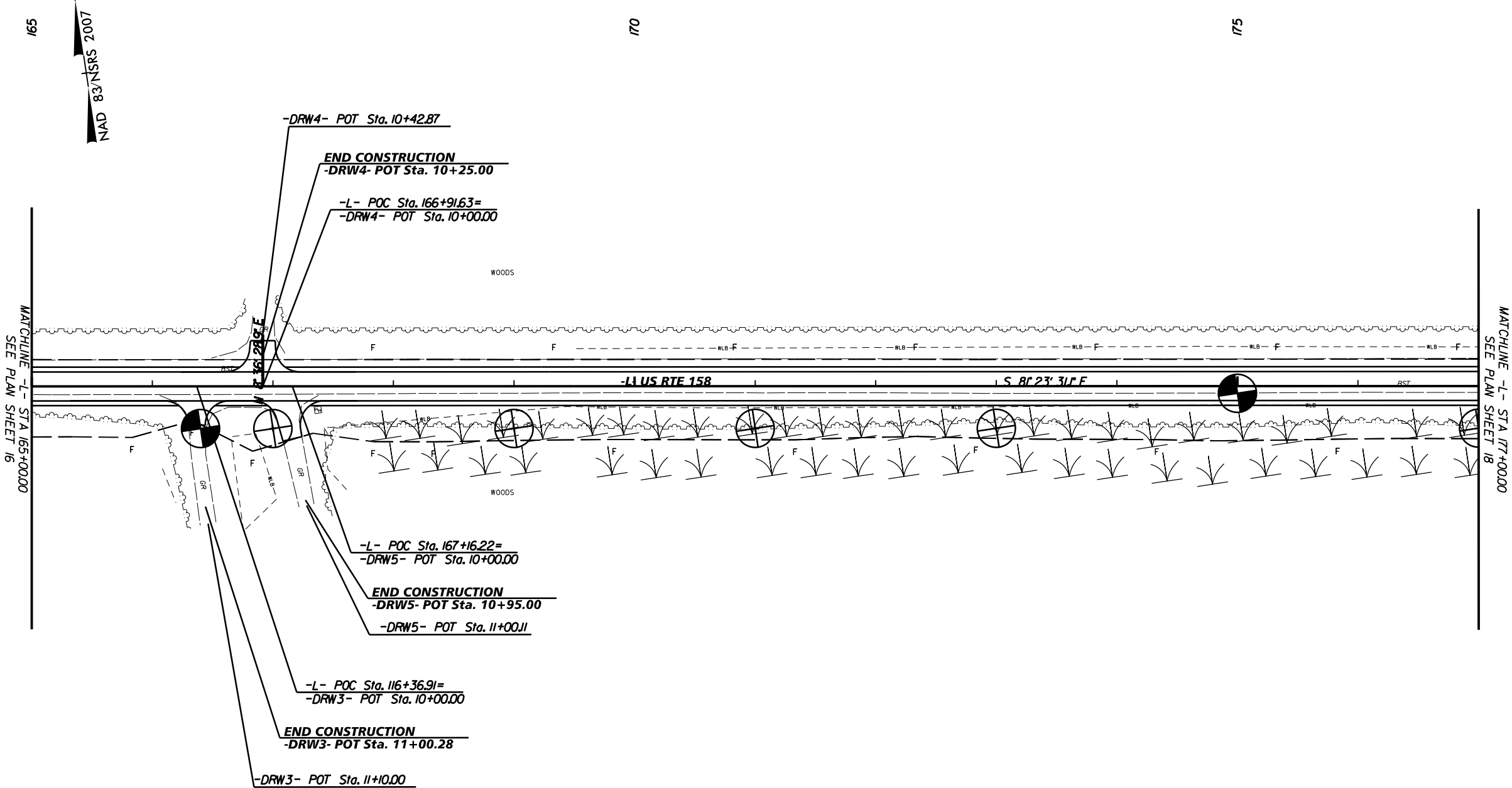
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PROJECT REFERENCE NO.		SHEET NO.
R-5808		17
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
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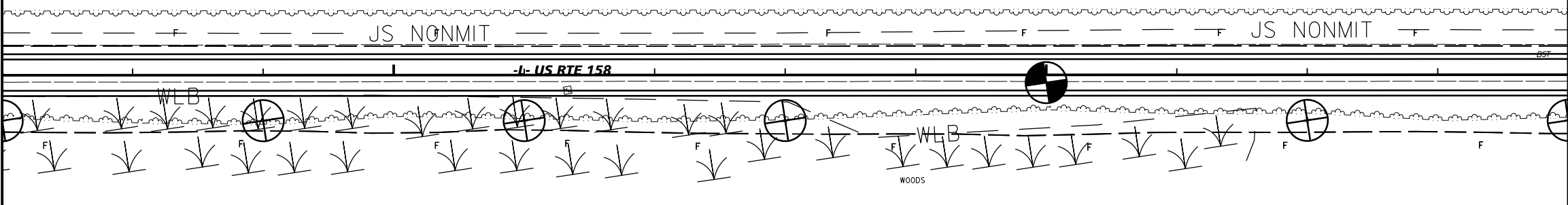
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MATCHLINE -L- STA 177+00.00
SEE PLAN SHEET 17



MATCHLINE -L- STA 189+00.00
SEE PLAN SHEET 19

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PROJECT REFERENCE NO.
R-5808

SHEET NO.
18

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

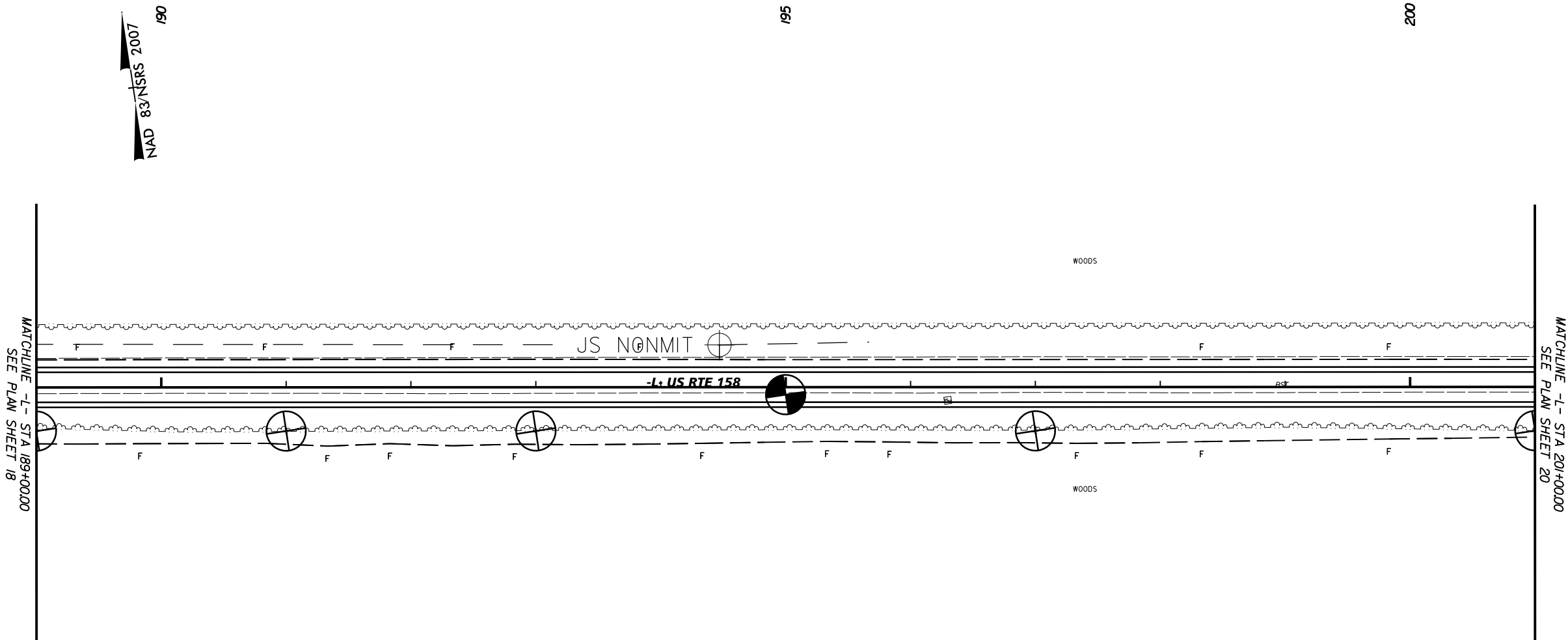
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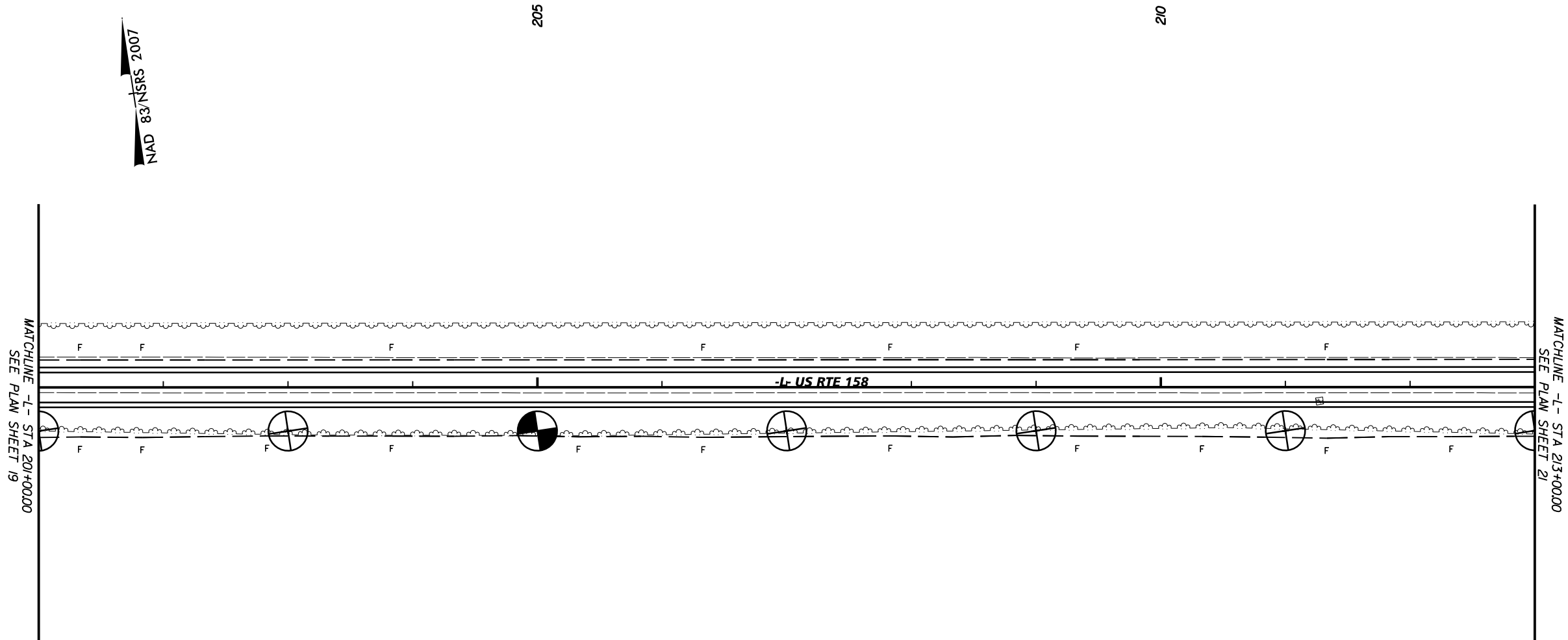
SEE SHEET NO. 28 AND 29 FOR -L- PROFILE

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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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	R/W SHEET NO.			
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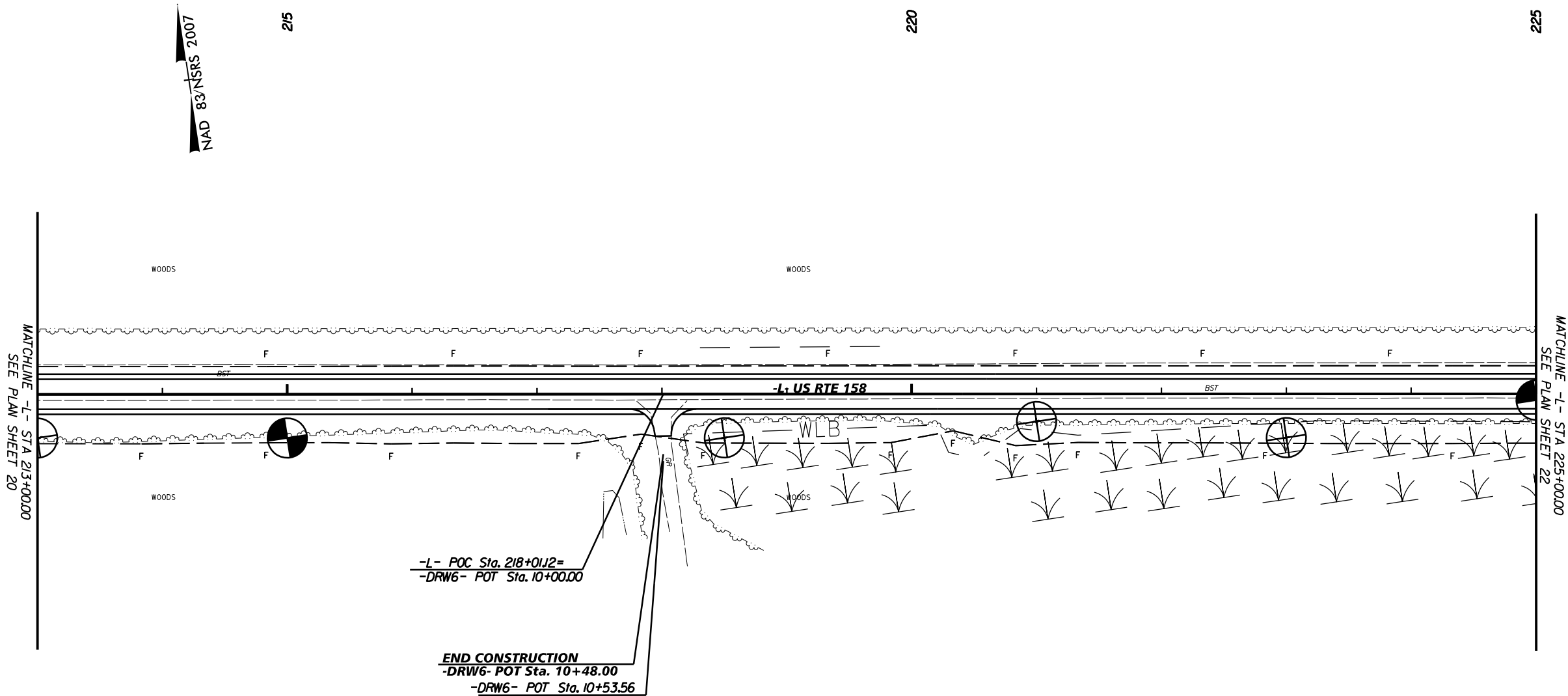
SEE SHEET NO. 29 AND 30 FOR -L- PROFILE

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REVISIONS

\$DATE\$

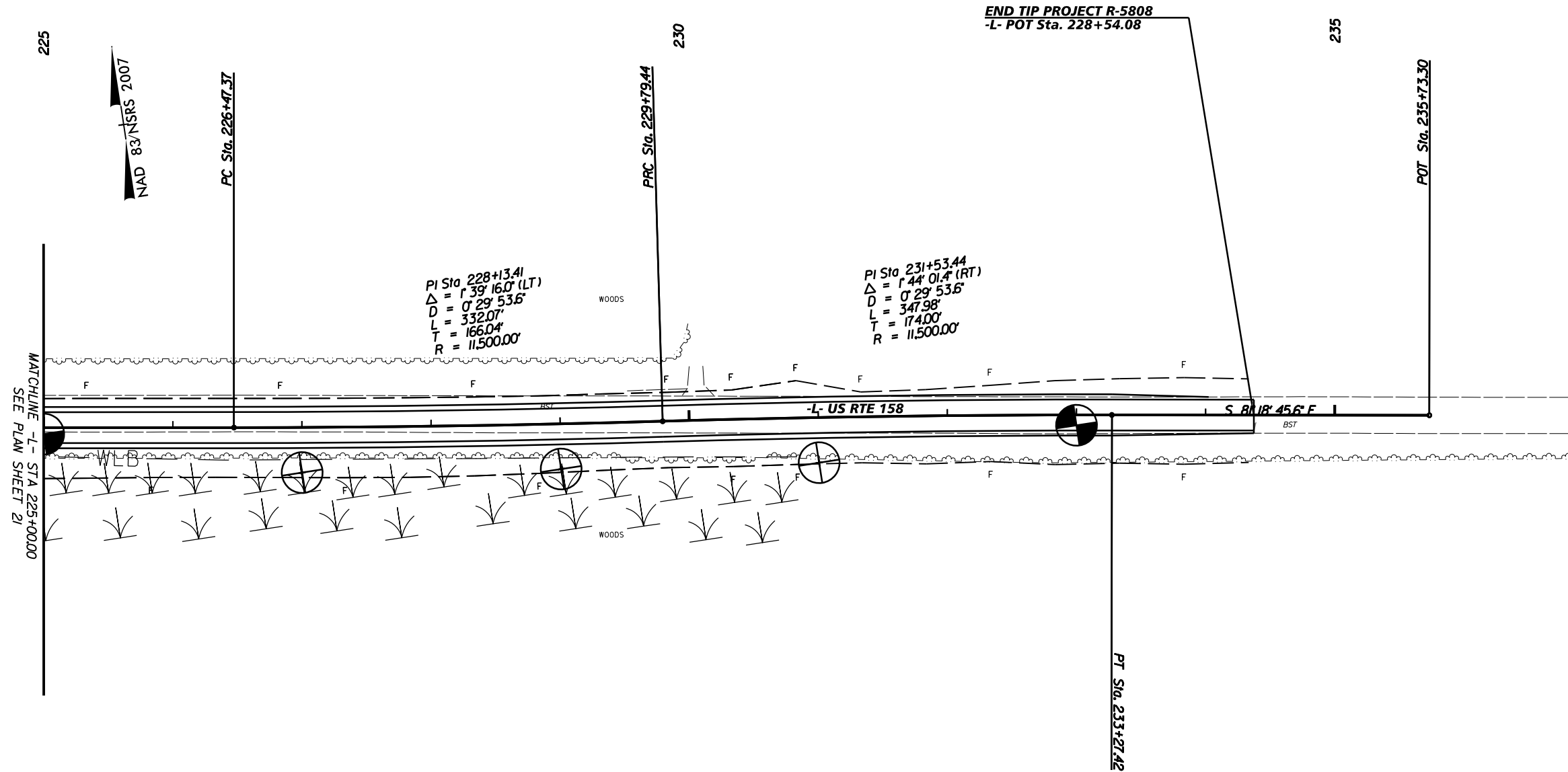
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	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



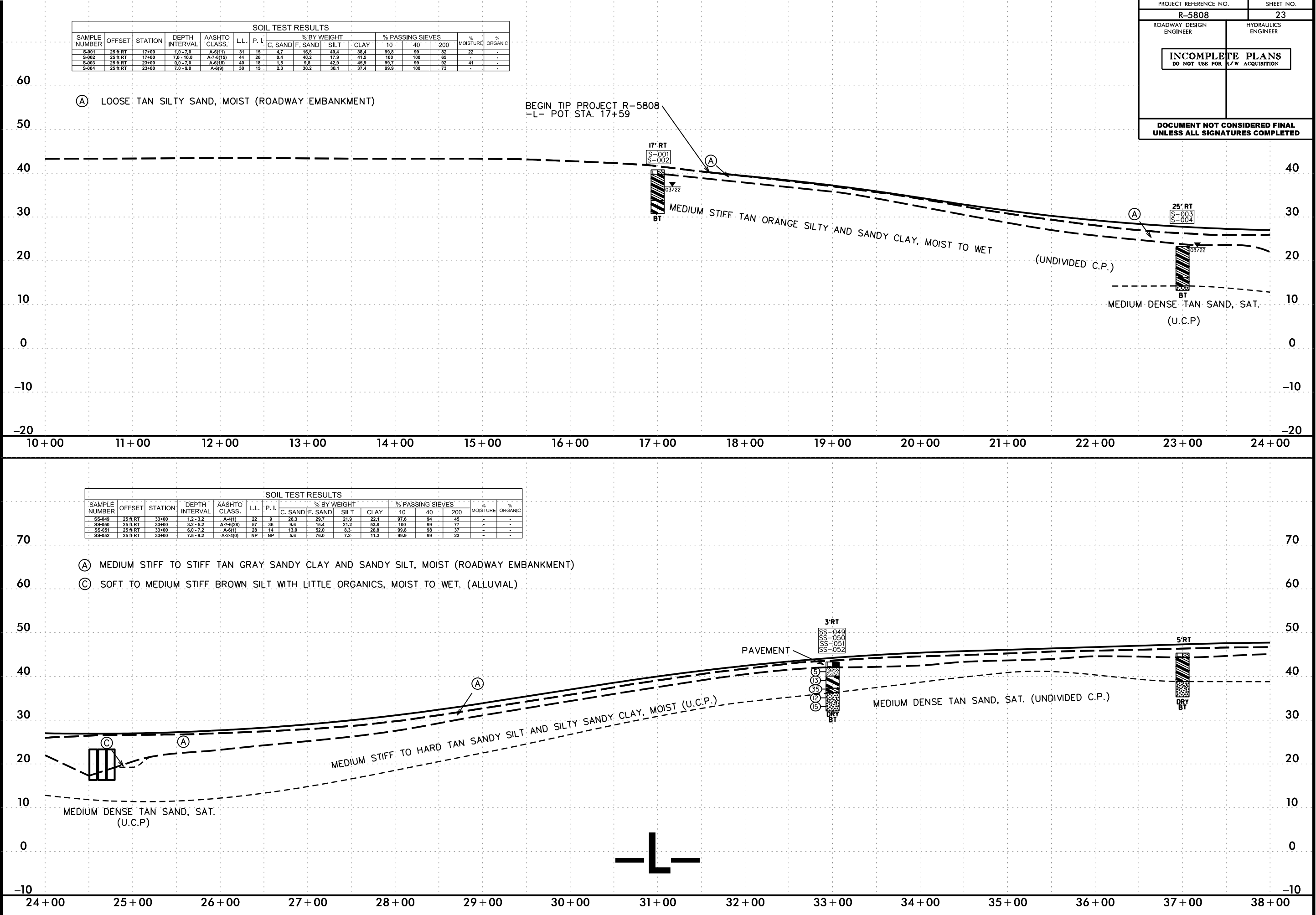
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INCOMPLETE PLANS
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SEE SHEET NO. 30 FOR -L- PROFILE



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Lee.Stone - All STAFF - F&E



5/28/98

SOIL TEST RESULTS														
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200	
SS-053	2 ft RT	41+00	1.5 - 3.0	A-7-6(9)	37	21	20.9	23.7	14.8	40.5	99.1	97	36	-
SS-054	2 ft RT	41+00	3.0 - 5.0	A-7-6(20)	44	26	5.3	29.7	26.7	45.3	99.8	99	80	-
SS-055	2 ft RT	41+00	5.0 - 7.0	A-2-4(0)	25	6	4.4	67.7	5.6	22.3	100	99	32	-
S-016	25 ft RT	45+00	0.0 - 0.5	A-2-4(0)	NP	NP	18.6	52.5	25.2	3.7	99.1	97	32	73
S-017	25 ft RT	45+00	0.5 - 4.0	A-2-4(0)	NP	NP	25.9	55.5	8.0	9.8	99.9	94	19	1.7
S-018	25 ft RT	45+00	4.0 - 4.5	A-2-4(0)	NP	NP	29.2	54.8	6.7	9.4	100	93	18	-
S-023	25 ft RT	51+00	0.0 - 2.0	A-7-6(20)	49	21	2.8	12.5	40.9	43.8	99.9	99	86	52
S-024	25 ft RT	51+00	2.0 - 6.5	A-7-6(32)	55	31	1.3	6.9	26.1	66.0	99.9	100	93	43
S-025	25 ft RT	51+00	6.5 - 8.0	A-7-6(24)	45	26	0.9	17.3	31.1	50.7	99.9	100	89	-

PROJECT REFERENCE NO.
R-5808

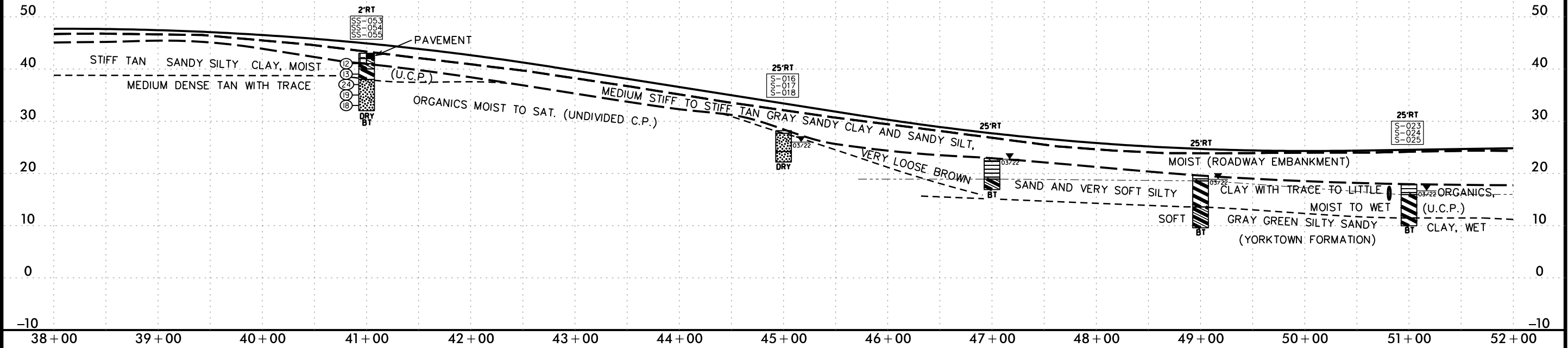
SHEET NO.
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ROADWAY DESIGN
ENGINEER

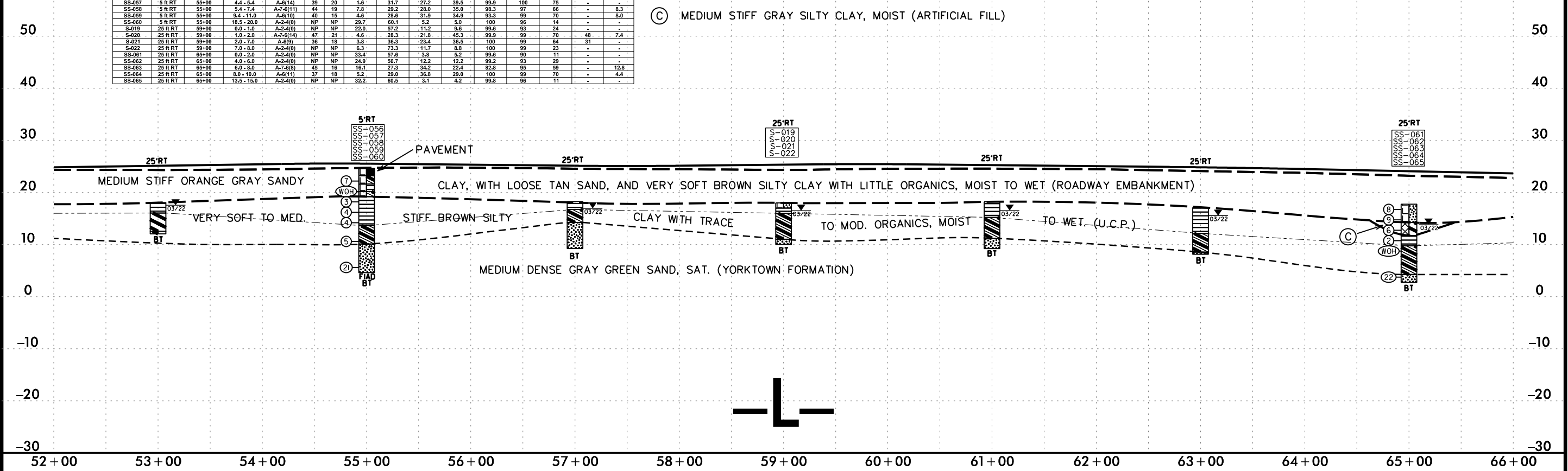
HYDRAULICS
ENGINEER

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SOIL TEST RESULTS														
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200	
SS-056	5 ft RT	55+00	3.4 - 4.4	A-6(14)	49	20	1.6	31.7	27.2	38.5	99.9	100	75	11.8
SS-057	5 ft RT	55+00	4.4 - 5.4	A-6(14)	39	20	1.6	31.7	27.2	38.5	99.9	100	75	-
SS-058	5 ft RT	55+00	5.4 - 7.4	A-7-6(11)	44	19	7.8	29.2	28.0	35.0	98.3	97	66	8.3
SS-059	5 ft RT	55+00	9.4 - 11.0	A-6(10)	40	15	4.6	28.6	31.9	34.9	93.3	99	70	8.0
SS-060	5 ft RT	55+00	10.5 - 20.0	A-2-4(0)	NP	NP	29.7	60.1	5.2	5.0	100	96	14	-
S-019	25 ft RT	59+00	0.0 - 1.0	A-2-4(0)	NP	NP	22.0	57.2	11.2	9.6	99.6	93	24	-
S-020	25 ft RT	59+00	1.0 - 2.0	A-7-6(14)	47	21	4.6	28.3	21.8	45.3	99.9	99	70	7.4
S-021	25 ft RT	59+00	2.0 - 7.0	A-6(9)	36	18	3.8	36.3	23.4	36.5	100	99	64	31
S-022	25 ft RT	59+00	7.0 - 8.0	A-2-4(0)	NP	NP	6.3	73.3	11.7	8.8	100	99	23	-
SS-061	25 ft RT	65+00	0.0 - 2.0	A-2-4(0)	NP	NP	33.4	57.6	3.8	5.2	99.6	90	11	-
SS-062	25 ft RT	65+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.9	50.7	12.2	12.2	99.2	93	29	-
SS-063	25 ft RT	65+00	6.0 - 8.0	A-7-6(8)	45	16	16.1	27.3	34.2	22.4	92.8	95	99	12.8
SS-064	25 ft RT	65+00	8.0 - 10.0	A-6(11)	37	18	5.2	29.0	36.8	29.0	100	99	70	4.4
SS-065	25 ft RT	65+00	13.5 - 15.0	A-2-4(0)	NP	NP	32.2	60.5	3.1	4.2	99.8	96	11	-



5/28/2022

PROJECT REFERENCE NO.
R-5808

SHEET NO.
25

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

INCOMPLETE PLANS
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SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT			% PASSING SIEVES			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
S-133	25 ft RT	71+00	0.0 - 5.5	A-2-4(0)	NP	NP	21.7	46.3	26.3	5.7	63.9	95	34	123	14.8
S-134	25 ft RT	71+00	5.5 - 7.0	A-4(0)	22	7	13.0	48.5	19.1	19.4	99.4	98	43	-	-
SS-066	25 ft RT	75+00	3.5 - 5.5	()	NEM	-	25.1	48.7	9.7	16.5	98.4	92	28	-	8.2
SS-067	25 ft RT	75+00	5.5 - 7.5	A-4(1)	24	9	10.3	50.1	20.9	18.7	99.9	98	43	-	3.6
SS-068	25 ft RT	75+00	7.5 - 9.5	A-6(2)	29	12	11.7	48.3	16.5	23.5	94.9	98	43	-	4.8
SS-069	25 ft RT	75+00	9.5 - 11.5	A-4(0)	25	7	13.1	49.6	14.7	22.6	99.7	97	41	-	4.5
SS-070	25 ft RT	75+00	13.5 - 15.0	A-2-4(0)	NP	NP	10.6	61.1	19.1	9.2	99.6	98	33	-	-
S-135	25 ft RT	79+00	0.0 - 5.5	A-4(0)	NP	NP	17.6	44.2	36.5	1.7	64.2	95	40	128	11.1

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-10

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66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00 80+00

SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-005	25 ft RT	85+00	0.0 - 8.0	A-4(0)	NP	NP	8.9	14.8	65.6	10.7	100	95	77	391	29.3
S-006	25 ft RT	89+00	0.0 - 8.0	A-4(0)	NP	NP	26.8	22.2	49.4	7.5	99	93	58	173	34.6

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80+00 81+00 82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00

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5/28/2022

PROJECT REFERENCE NO.
R-5808

SHEET NO.
26

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-007	25 ft RT	95+00	0.0 - 8.0	A-4(0)	NP	NP	40.7	14.4	39.5	5.5	95.8	67	46	218	56.5
SS-076	25 ft RT	99+00	4.0 - 8.0	A-6(1)	29	11	21.5	40.7	21.1	16.6	97.5	93	41	-	6.0
SS-077	25 ft RT	99+00	8.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	52.1
SS-078	25 ft RT	99+00	8.0 - 9.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	41.8
SS-079	25 ft RT	99+00	10.0 - 12.0	A-2-4(0)	NP	NP	37.8	51.0	6.6	4.6	100	91	14	-	-
S-008	25 ft RT	101+00	0.0 - 8.0	A-4(0)	NP	NP	27.5	38.9	27.1	5.5	95.6	89	36	71	16.6
S-009	25 ft RT	105+00	0.0 - 7.8	A-4(0)	NP	NP	34.5	18.1	40.3	7.1	99.8	74	49	231	56.5

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94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00

SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-080	6' RT	109+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	72.3
SS-081	6' RT	109+00	6.0 - 8.0	A-2-4(0)	NP	NP	17.5	59.2	13.0	10.4	90.8	92	27	-	11.6
SS-082	6' RT	109+00	8.0 - 10.0	A-2-4(0)	NP	NP	22.8	50.9	18.4	7.8	87.1	86	29	-	20.2
SS-083	6' RT	109+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21.8
SS-084	6' RT	109+00	13.5 - 15.0	A-2-4(0)	25	6	24.5	45.2	20.0	10.3	97.0	92	33	-	3.7
S-011	25' RT	115+00	0.0 - 8.0	A-2-4(0)	NP	NP	25.4	45.4	24.8	4.5	99.3	89	32	278	21.7
SS-085	6' RT	121+00	4.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	10.5
SS-086	6' RT	121+00	6.0 - 8.0	-	NP	NP	-	-	-	-	NEM	NEM	NEM	-	50.2

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108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00

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PROJECT REFERENCE NO.
R-5808

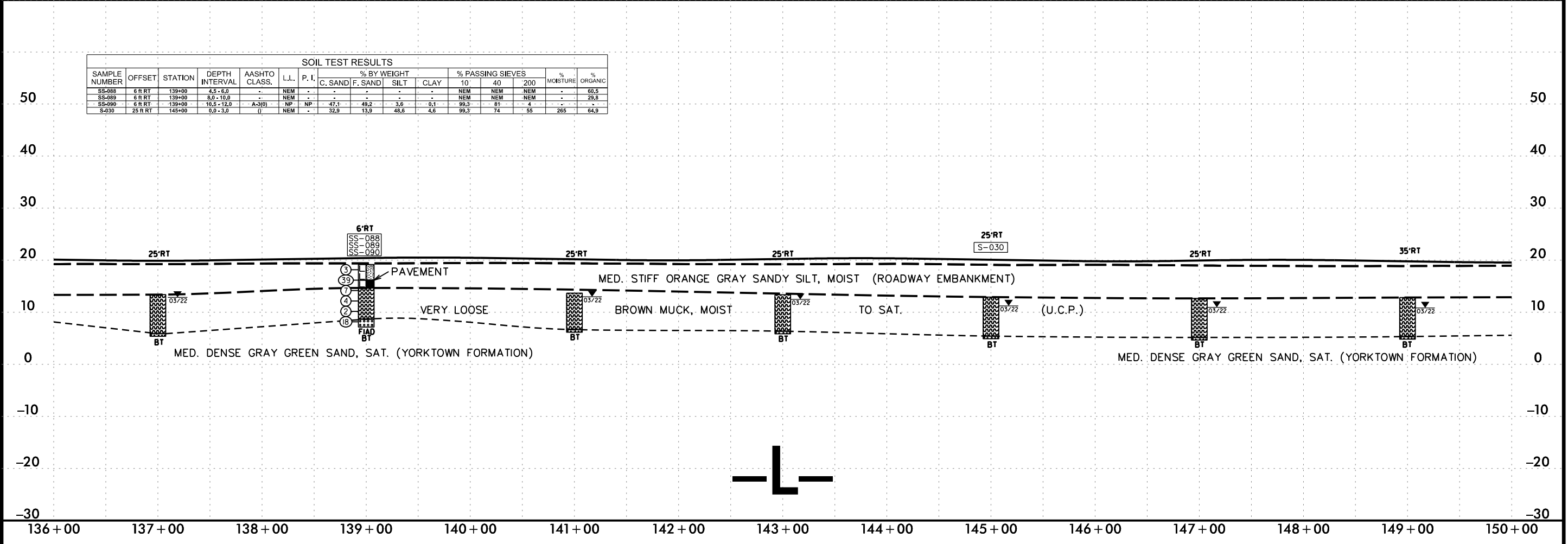
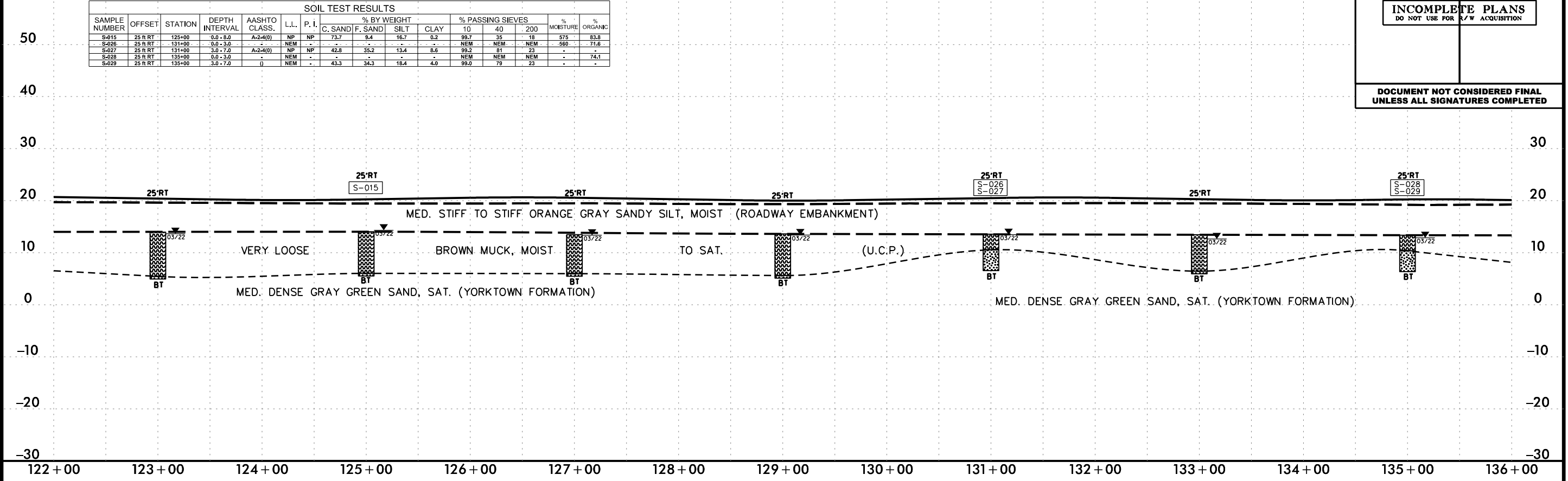
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27

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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PROJECT REFERENCE NO.
R-5808

SHEET NO.
28

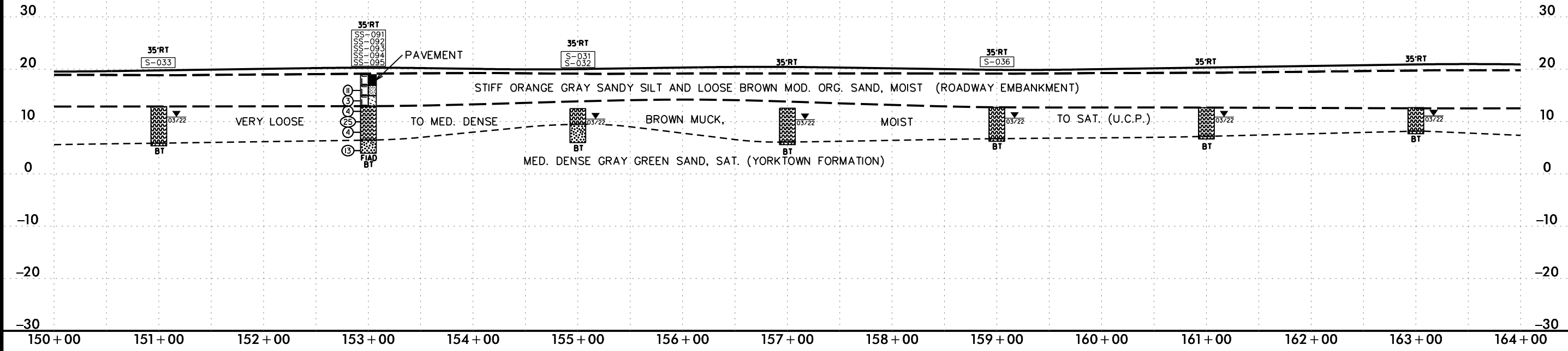
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

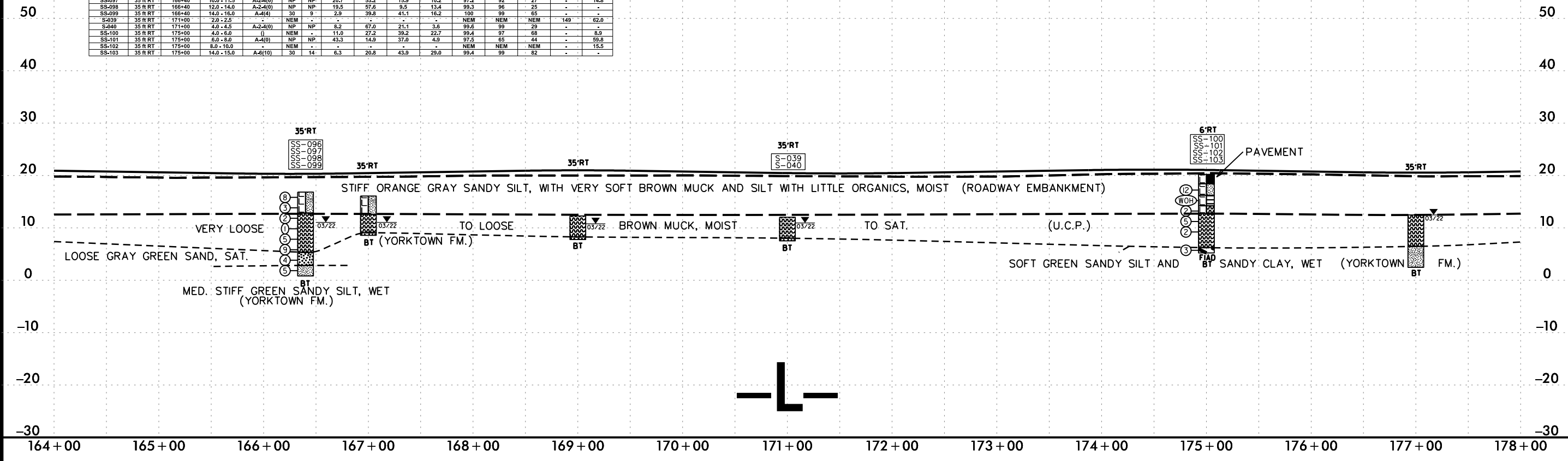
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SOIL TEST RESULTS													
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES		
							C. SAND	F. SAND	SILT	CLAY	10	40	200
SS-033	35 R RT	151+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-091	35 R RT	153+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.4	48.1	19.0	8.4	97.2	90	31
SS-092	35 R RT	153+00	6.0 - 8.0	-	-	-	22.5	20.3	52.8	4.4	91.0	84	60
SS-093	35 R RT	153+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-094	35 R RT	153+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-095	35 R RT	153+00	13.5 - 15.0	A-2-4(0)	NP	NP	30.5	49.6	10.9	9.0	99	88	22
S-031	35 R RT	155+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
S-032	35 R RT	155+00	3.0 - 5.5	A-2-4(0)	NP	NP	17.5	72.9	7.3	2.3	99.9	97	11
S-036	35 R RT	159+00	3.0 - 3.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM



SOIL TEST RESULTS													
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES		
							C. SAND	F. SAND	SILT	CLAY	10	40	200
SS-096	35 R RT	166+40	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-097	35 R RT	166+40	10.0 - 11.5	A-2-4(0)	NP	NP	20.7	53.2	15.9	10.2	97.2	92	27
SS-098	35 R RT	166+40	12.0 - 14.0	A-2-4(0)	NP	NP	19.5	57.6	9.5	13.4	99.3	96	25
SS-099	35 R RT	166+40	14.0 - 15.0	A-4(0)	NP	NP	9	2.9	38.6	41.1	100	99	65
S-039	35 R RT	171+00	2.0 - 2.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM
S-040	35 R RT	171+00	4.0 - 4.5	A-2-4(0)	NP	NP	8.2	67.0	21.1	3.6	99.5	99	29
SS-100	35 R RT	175+00	4.0 - 6.0	-	NEM	-	11.0	27.2	38.2	22.7	99.4	97	68
SS-101	35 R RT	175+00	6.0 - 8.0	A-4(0)	NP	NP	43.3	14.9	37.6	4.9	97.5	65	44
SS-102	35 R RT	175+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-103	35 R RT	175+00	14.0 - 15.0	A-6(10)	NP	NP	6.3	20.8	43.9	29.0	99.4	99	82



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PROJECT REFERENCE NO.
R-5808

SHEET NO.
29

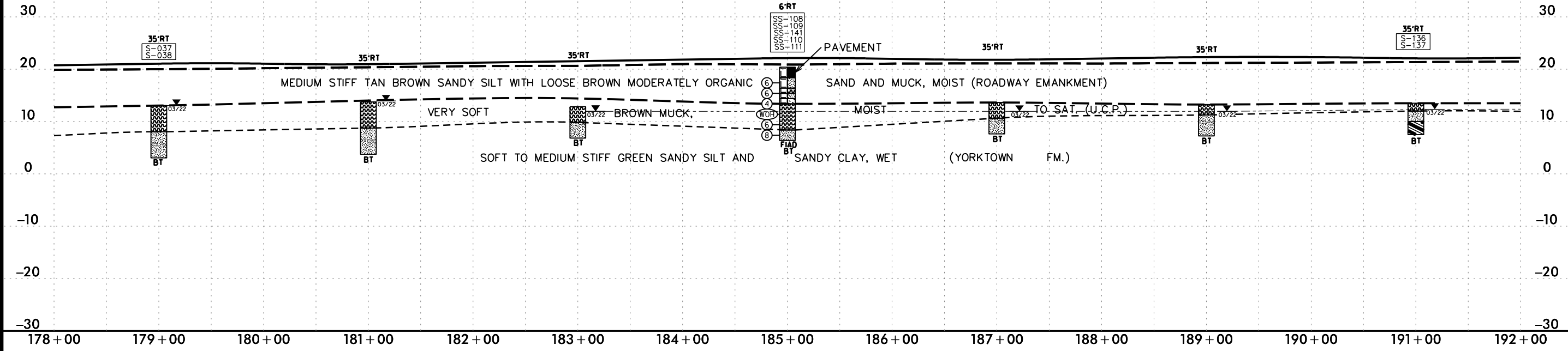
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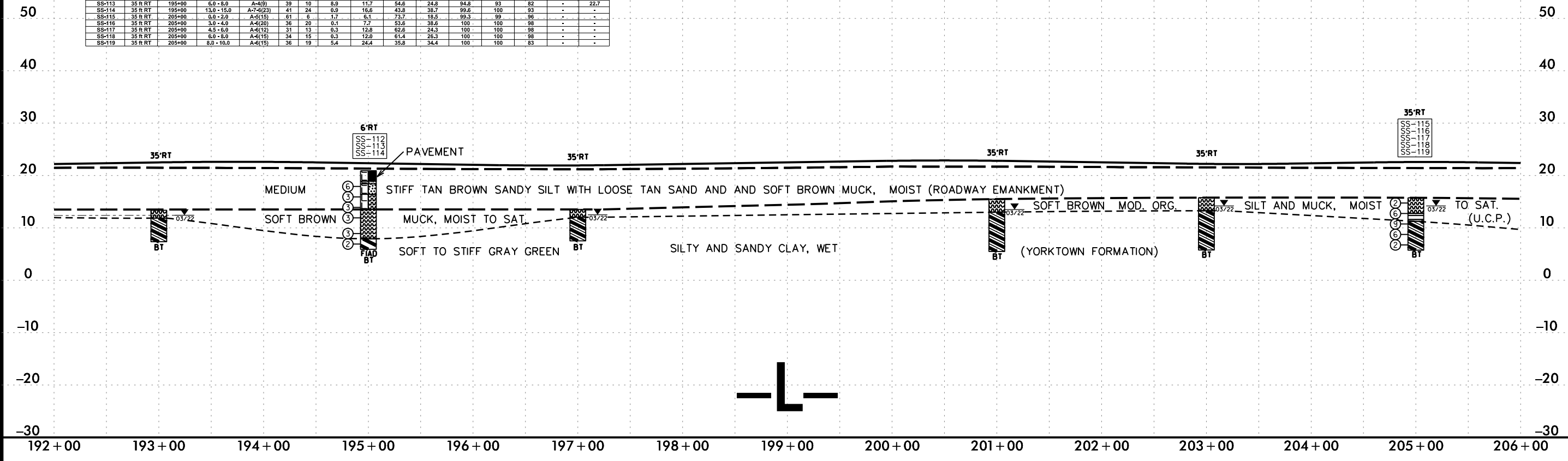
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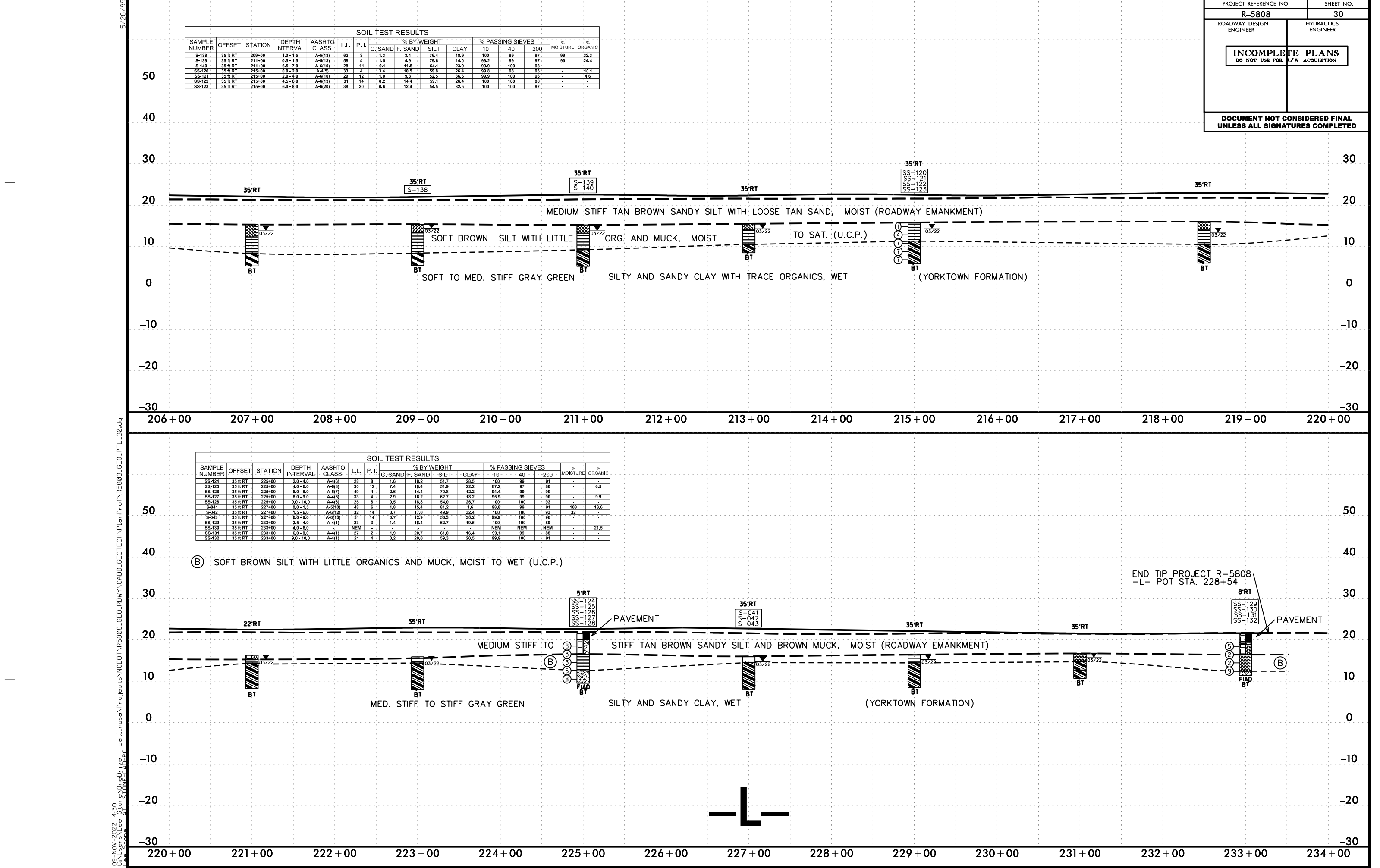
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UNLESS ALL SIGNATURES COMPLETED

SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-037	35 ft RT	179+00	3.0 - 3.5	()	NEM	-	18.8	8.2	64.8	7.2	99.4	90	73	292	73.0
S-038	35 ft RT	179+00	6.0 - 7.0	A-4(0)	25	2	2.3	34.8	55.2	7.7	99.9	99	80	-	-
SS-108	6 ft RT	185+00	2.5 - 4.0	A-4(0)	20	6	13.8	49.8	17.6	18.8	100	98	41	-	-
SS-109	6 ft RT	185+00	4.0 - 5.0	A-4(0)	NP	NP	25.3	12.0	45.4	17.2	99.6	82	65	-	20.9
SS-141	6 ft RT	185+00	5.0 - 6.0	A-4(0)	NP	NP	13.9	44.4	29.6	12.9	99.4	99	48	-	-
SS-110	6 ft RT	185+00	6.0 - 7.0	A-2-M(0)	NP	NP	16.8	60.6	16.7	3.9	96.5	96	23	-	5.1
SS-111	6 ft RT	185+00	7.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	74.2
S-136	35 ft RT	191+00	1.0 - 1.5	A-5(22)	85	8	5.9	5.4	54.5	34.2	99.6	96	90	122	40.6
S-137	35 ft RT	191+00	4.0 - 4.5	A-6(10)	30	11	0.5	6.2	71.3	22.0	99.9	100	98	-	-



SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.P.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-112	35 ft RT	195+00	2.5 - 4.0	A-2-4(0)	NP	NP	14.1	61.8	14.5	9.5	94.3	96	28	-	-
SS-113	35 ft RT	195+00	6.0 - 8.0	A-4(0)	39	10	8.9	11.7	54.6	24.8	94.8	93	82	-	22.7
SS-114	35 ft RT	195+00	13.0 - 15.0	A-7-6(23)	41	24	0.9	16.6	43.8	38.7	99.6	100	93	-	-
SS-115	35 ft RT	205+00	0.0 - 2.0	A-5(15)	61	6	1.7	6.1	73.7	18.5	99.3	99	96	-	-
SS-116	35 ft RT	205+00	3.0 - 4.0	A-4(20)	36	20	0.1	7.7	53.6	38.6	100	100	98	-	-
SS-117	35 ft RT	205+00	4.5 - 6.0	A-6(12)	31	13	0.3	12.8	62.6	24.3	100	100	98	-	-
SS-118	35 ft RT	205+00	6.0 - 8.0	A-6(15)	34	15	0.3	12.0	61.4	26.3	100	100	98	-	-
SS-119	35 ft RT	205+00	8.0 - 10.0	A-6(15)	36	19	5.4	24.4	35.8	34.4	100	100	83	-	-

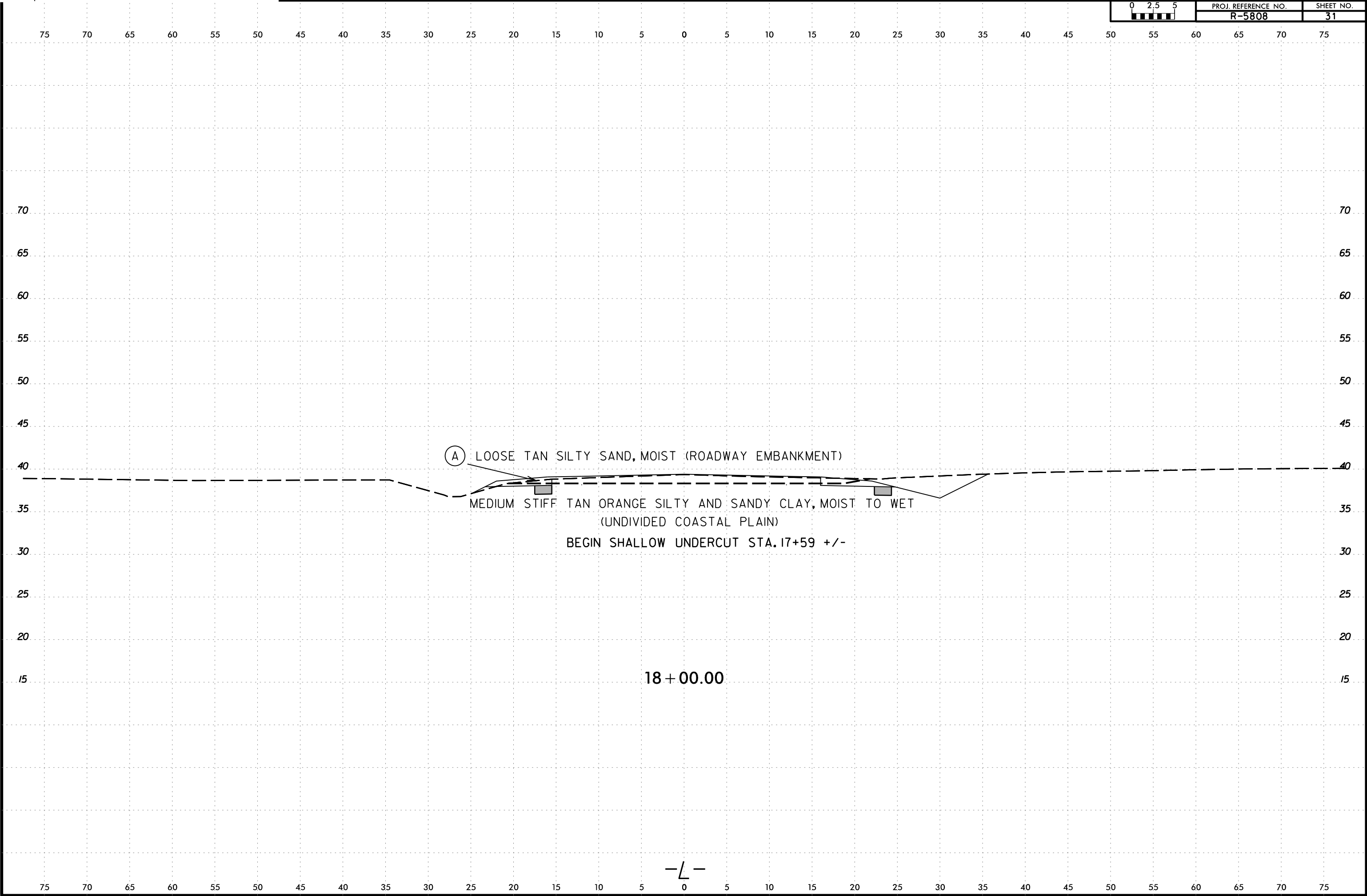




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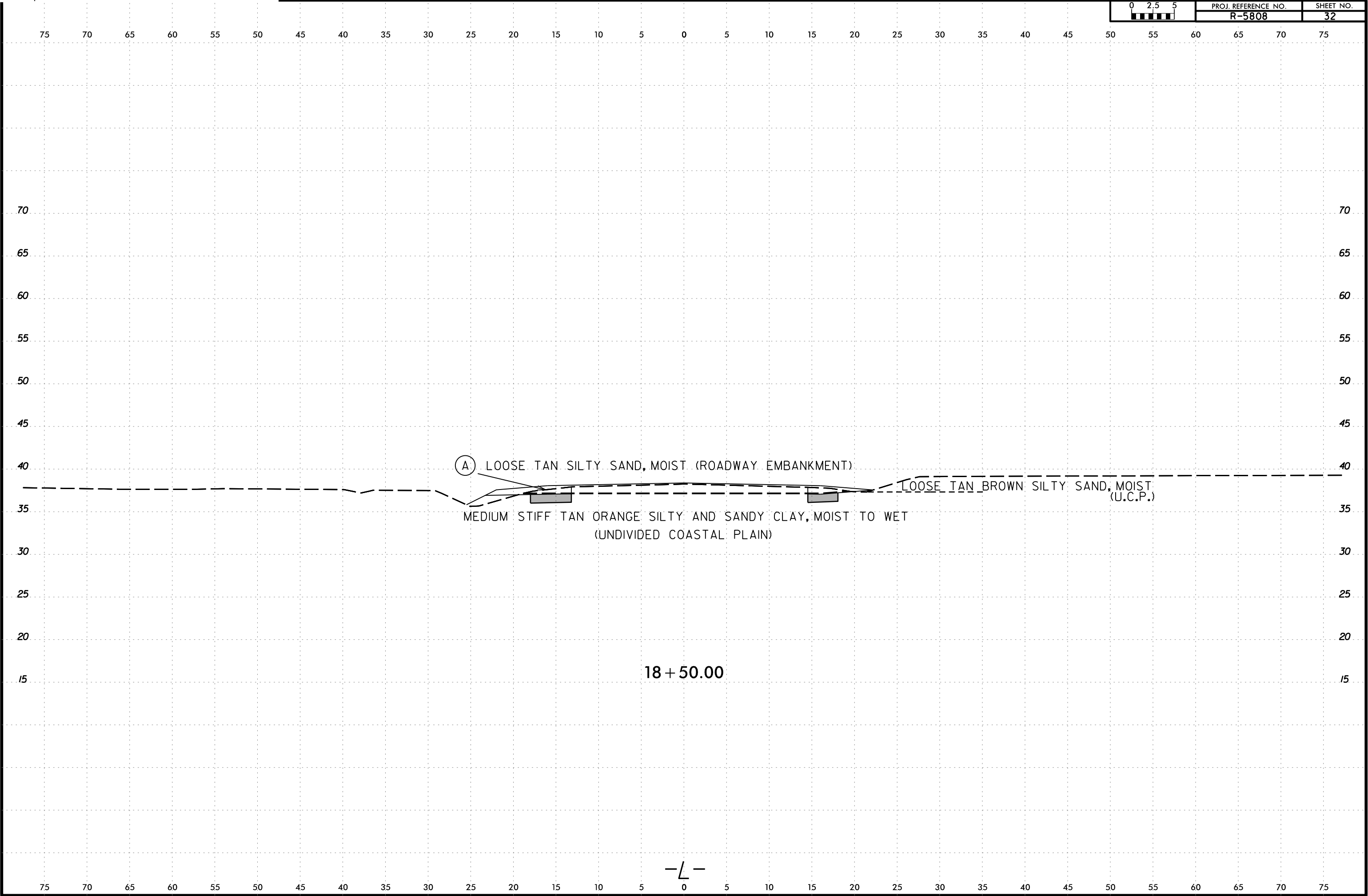
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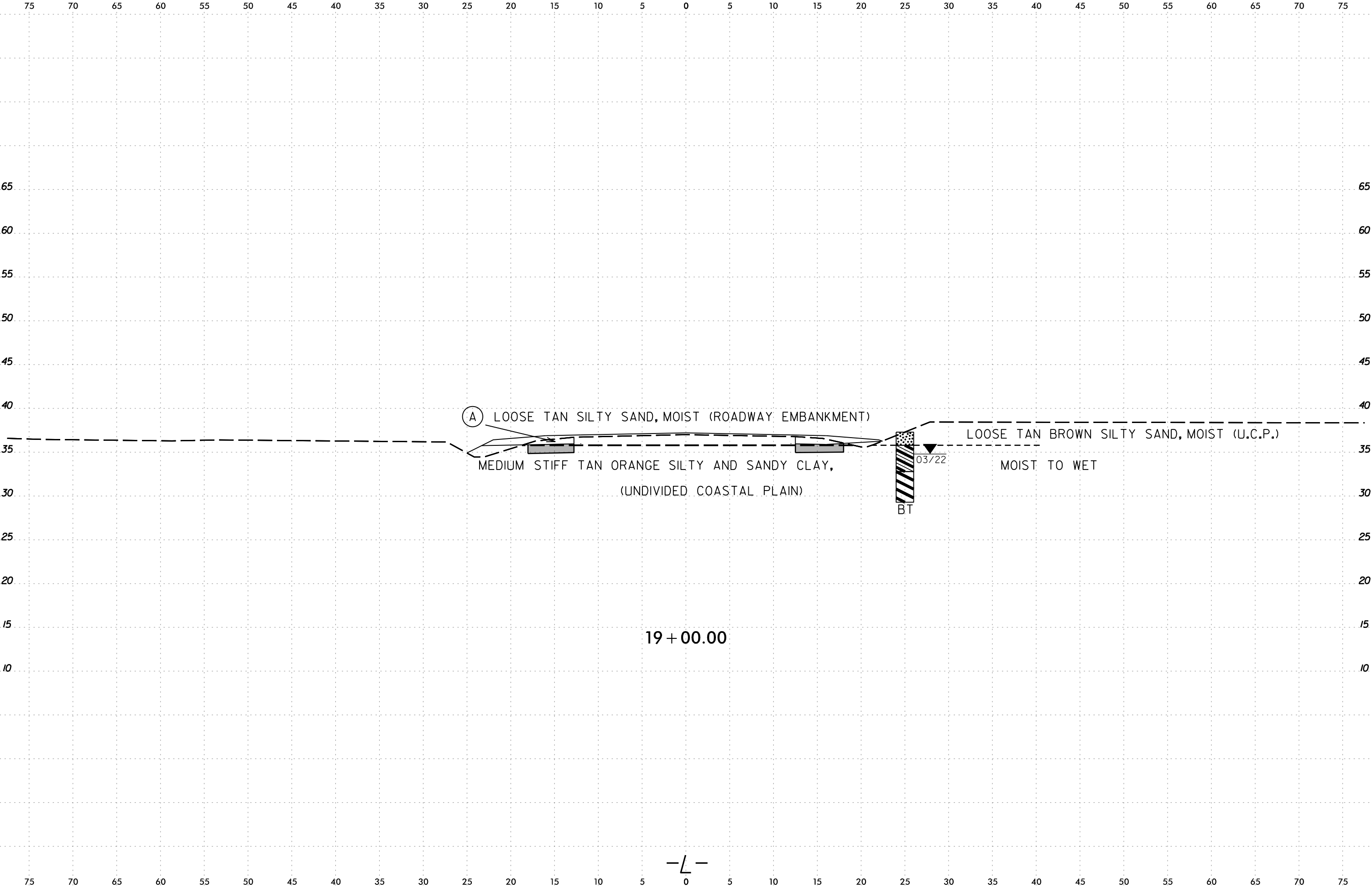
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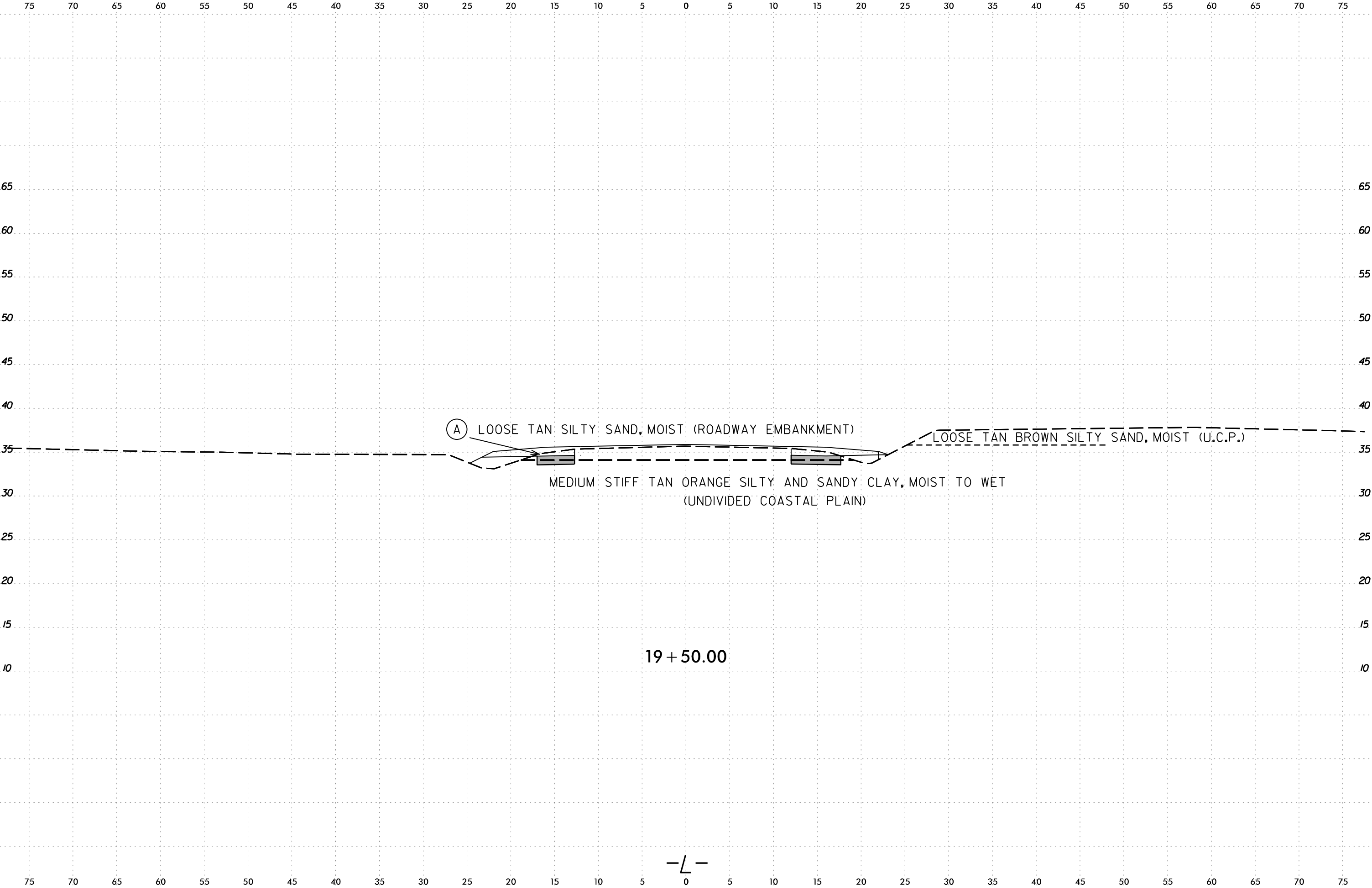
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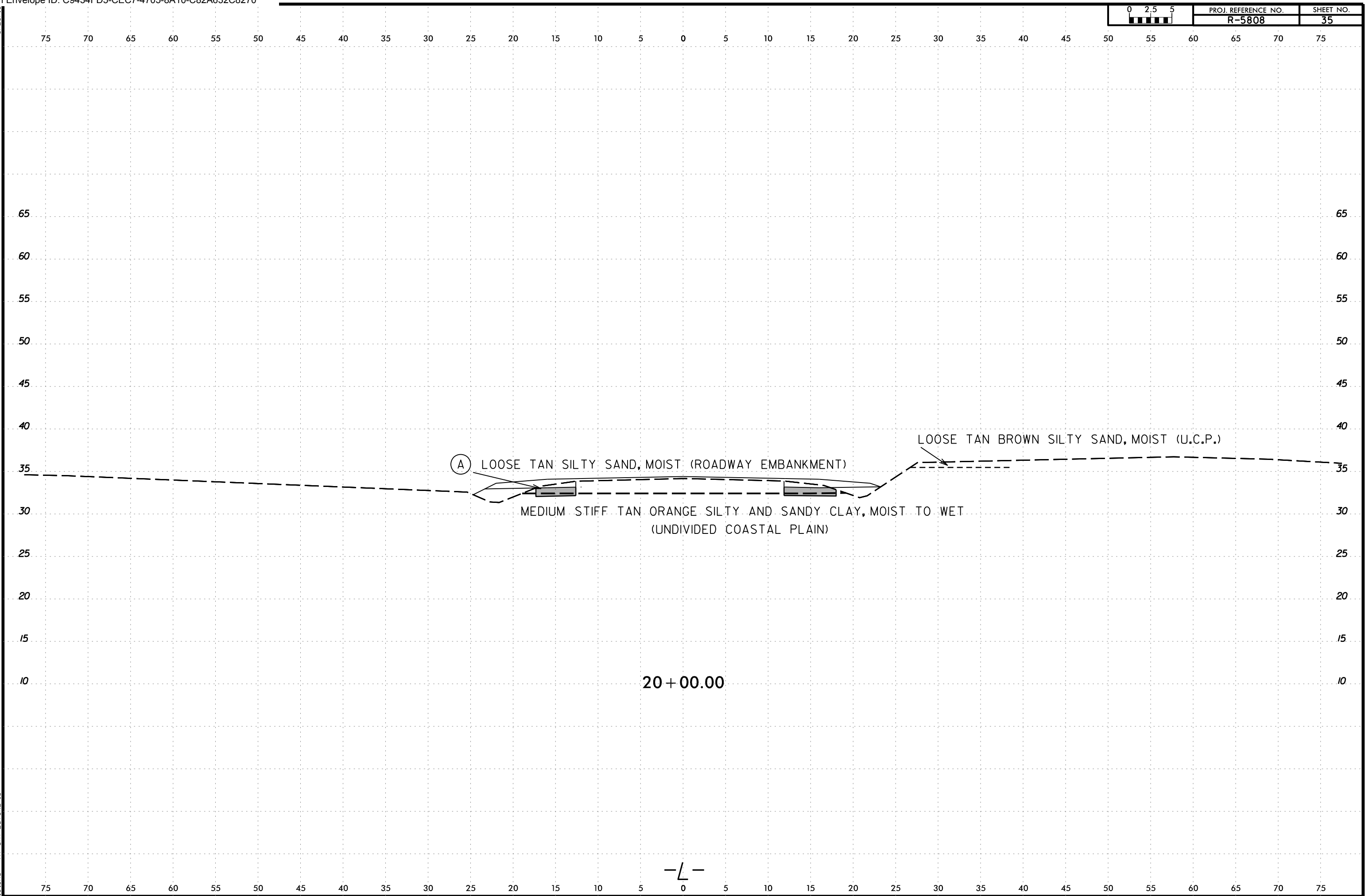


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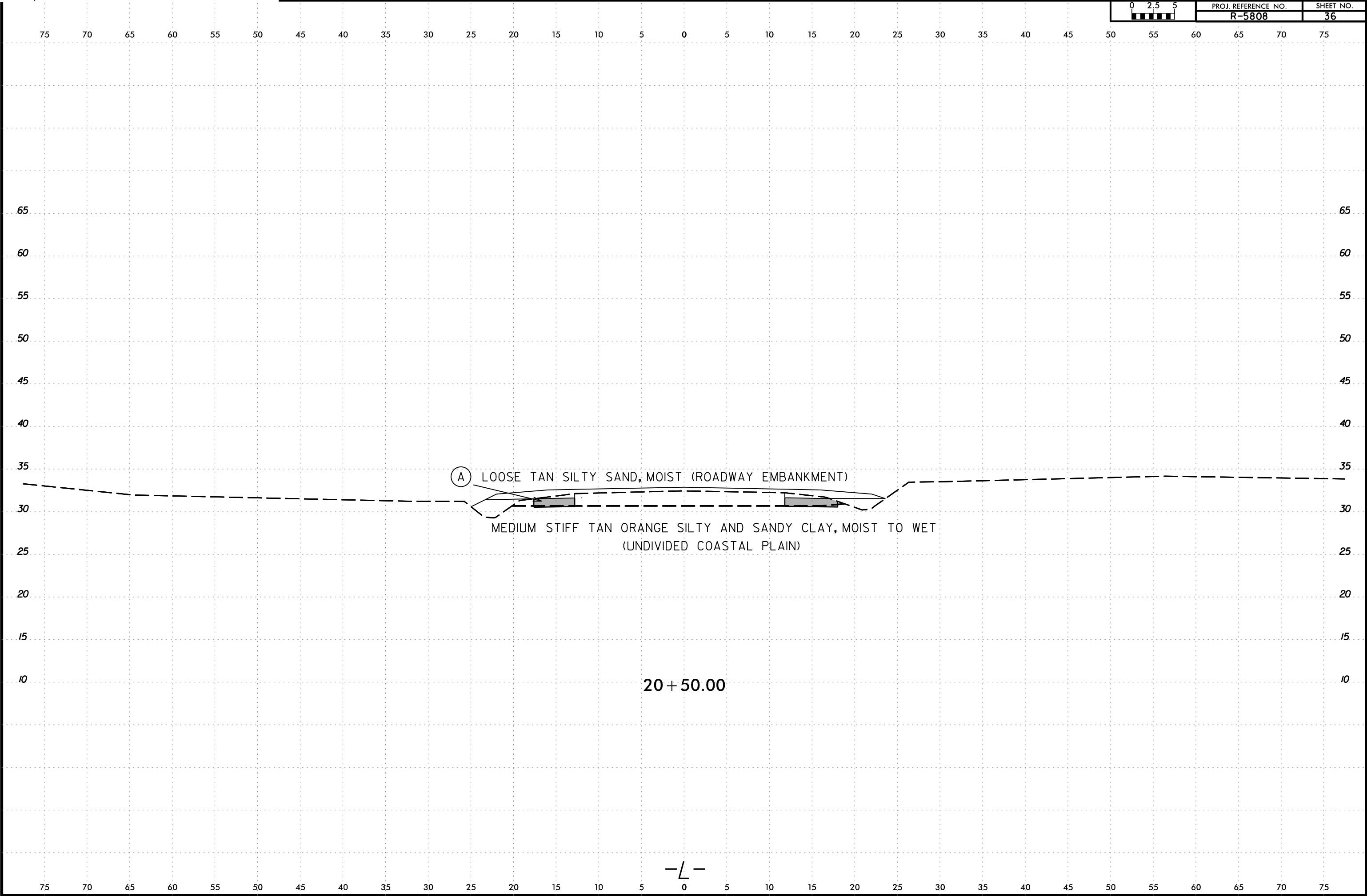


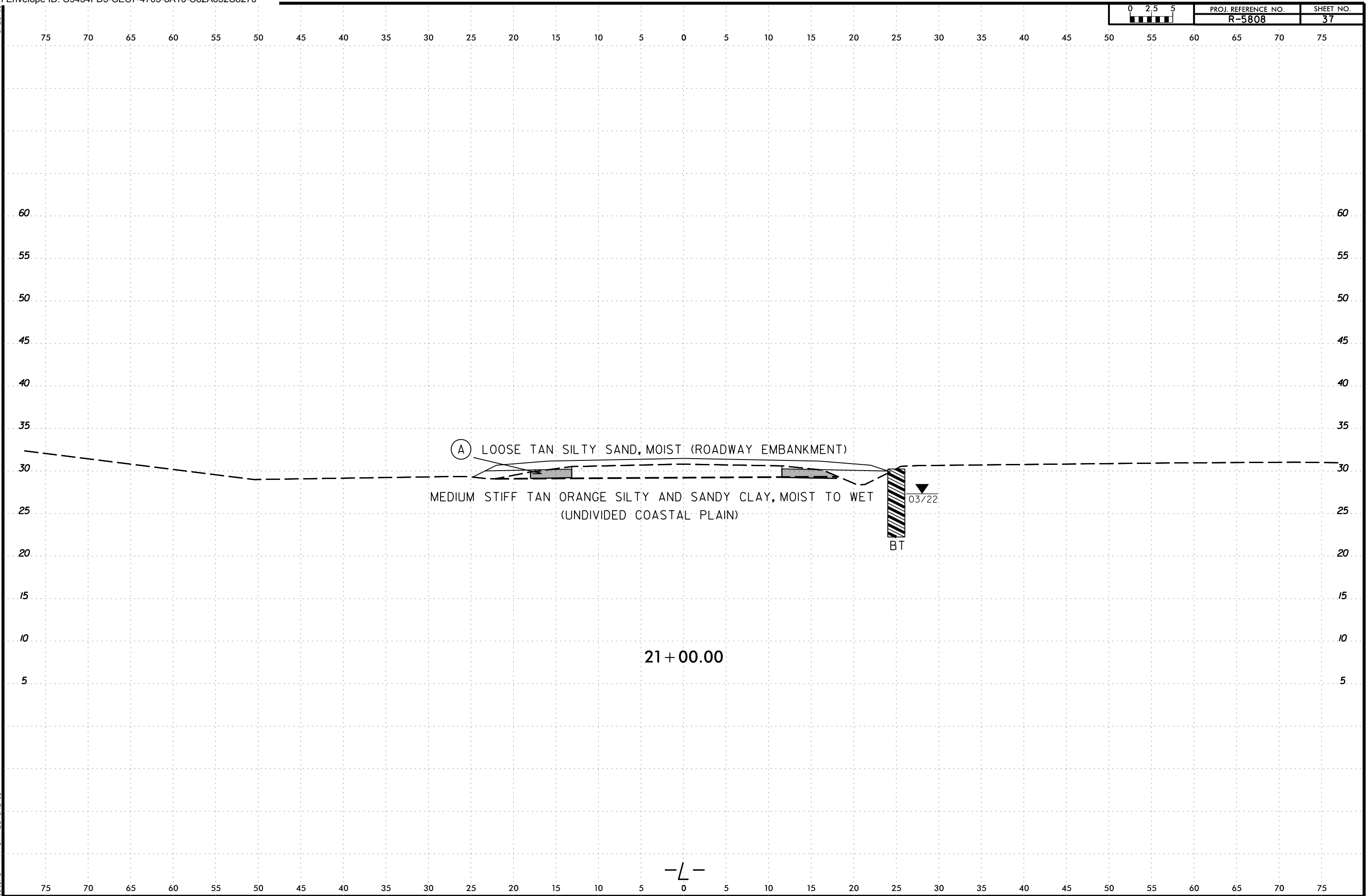


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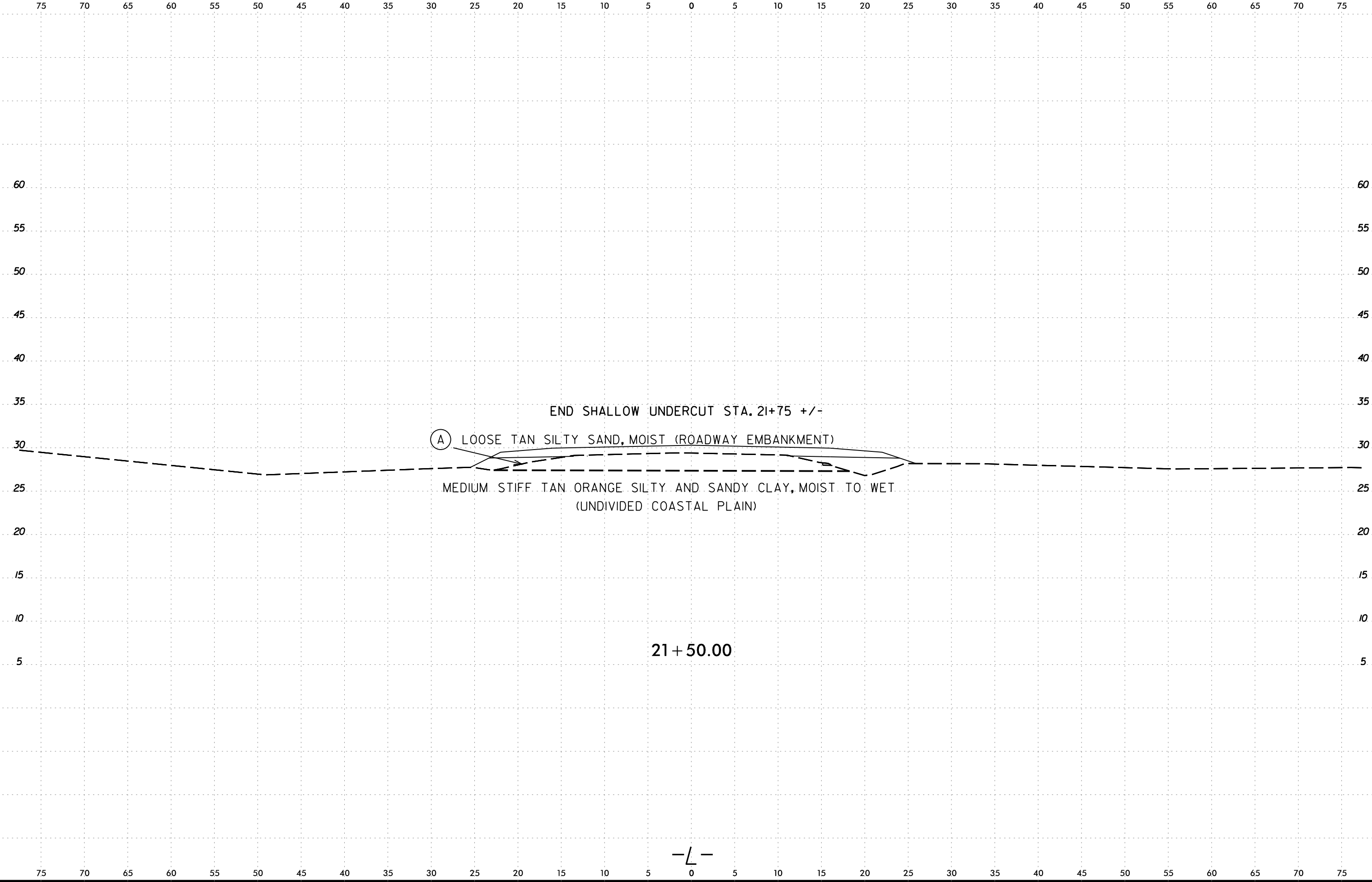


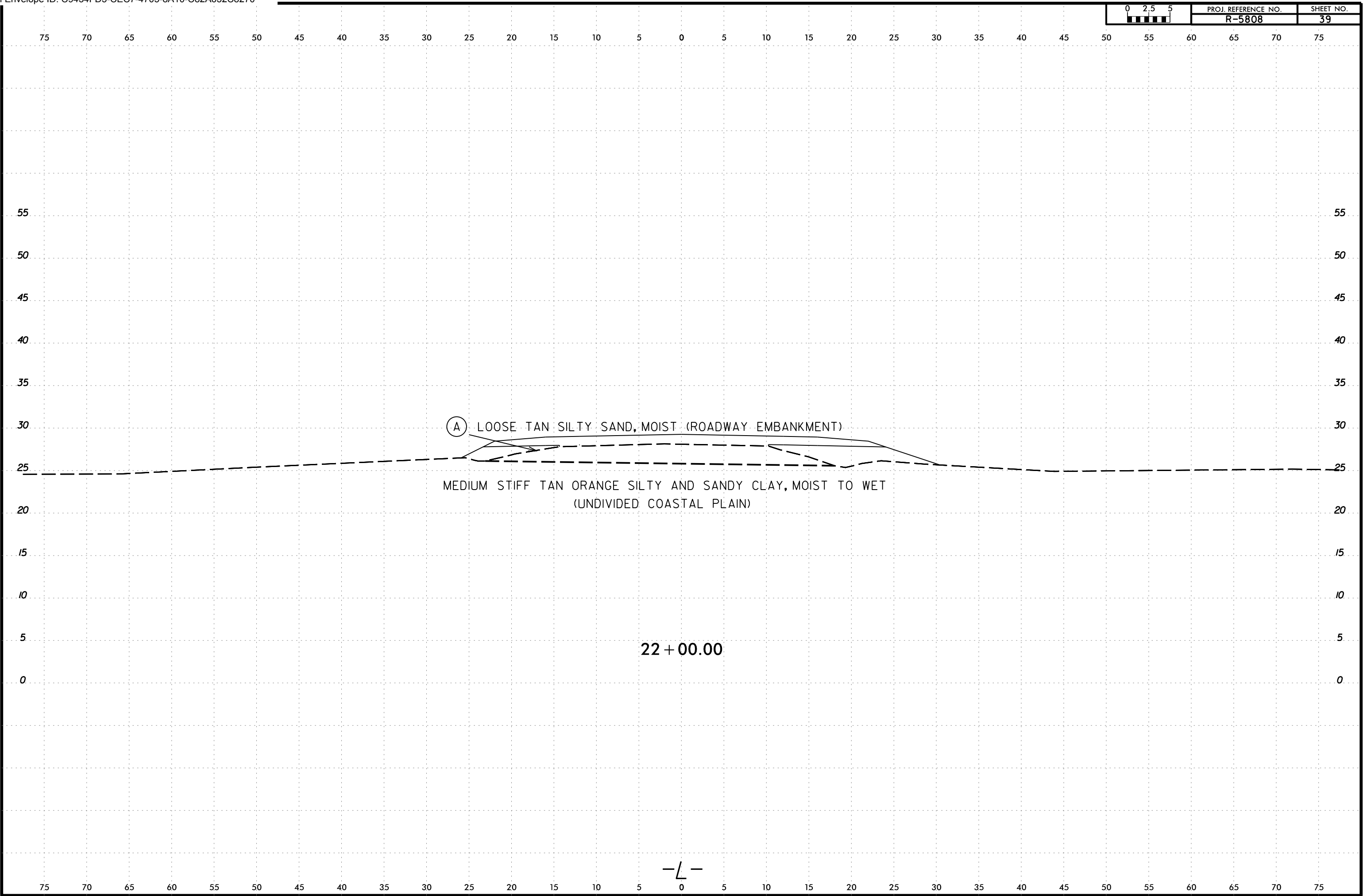


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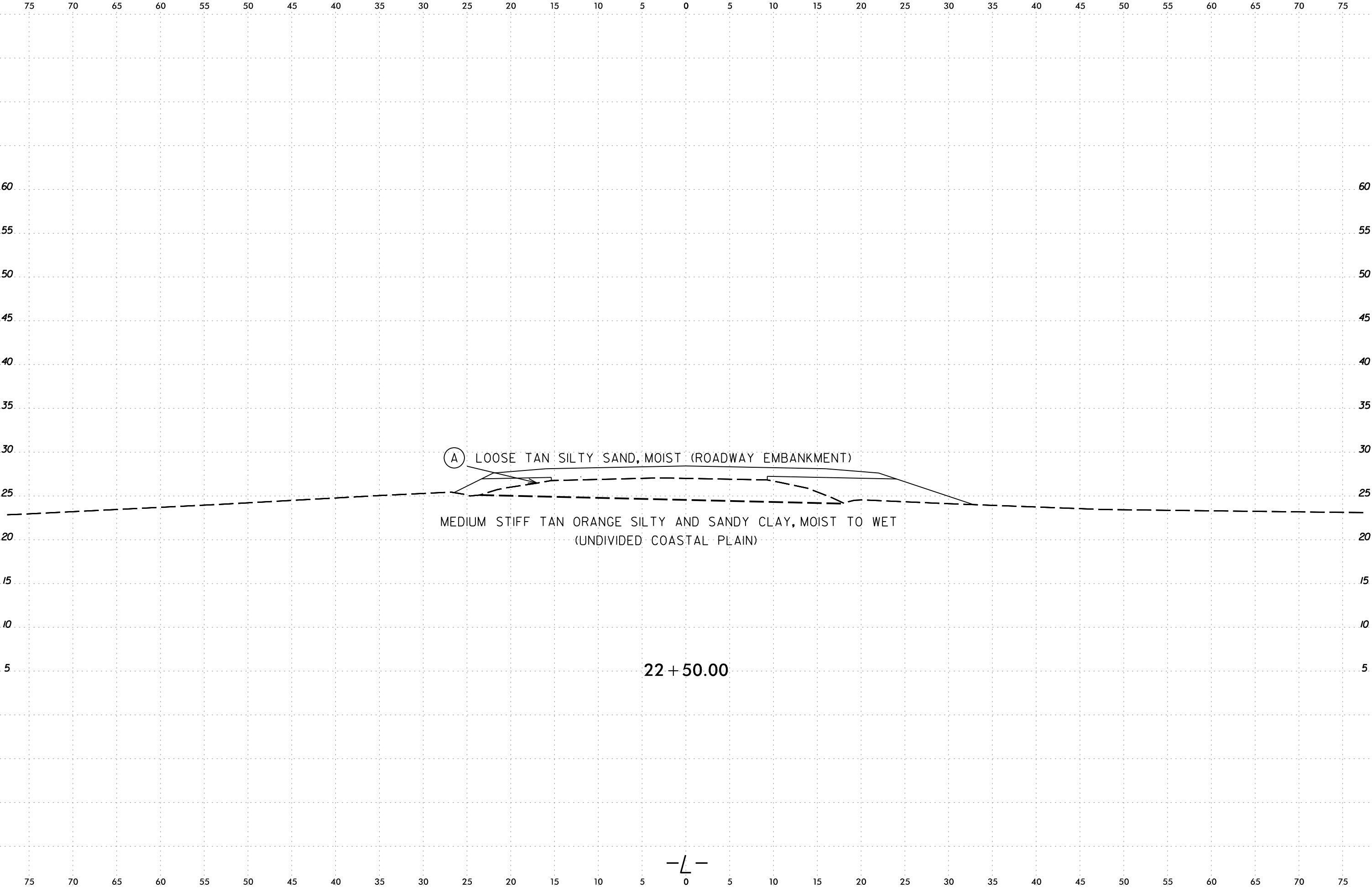




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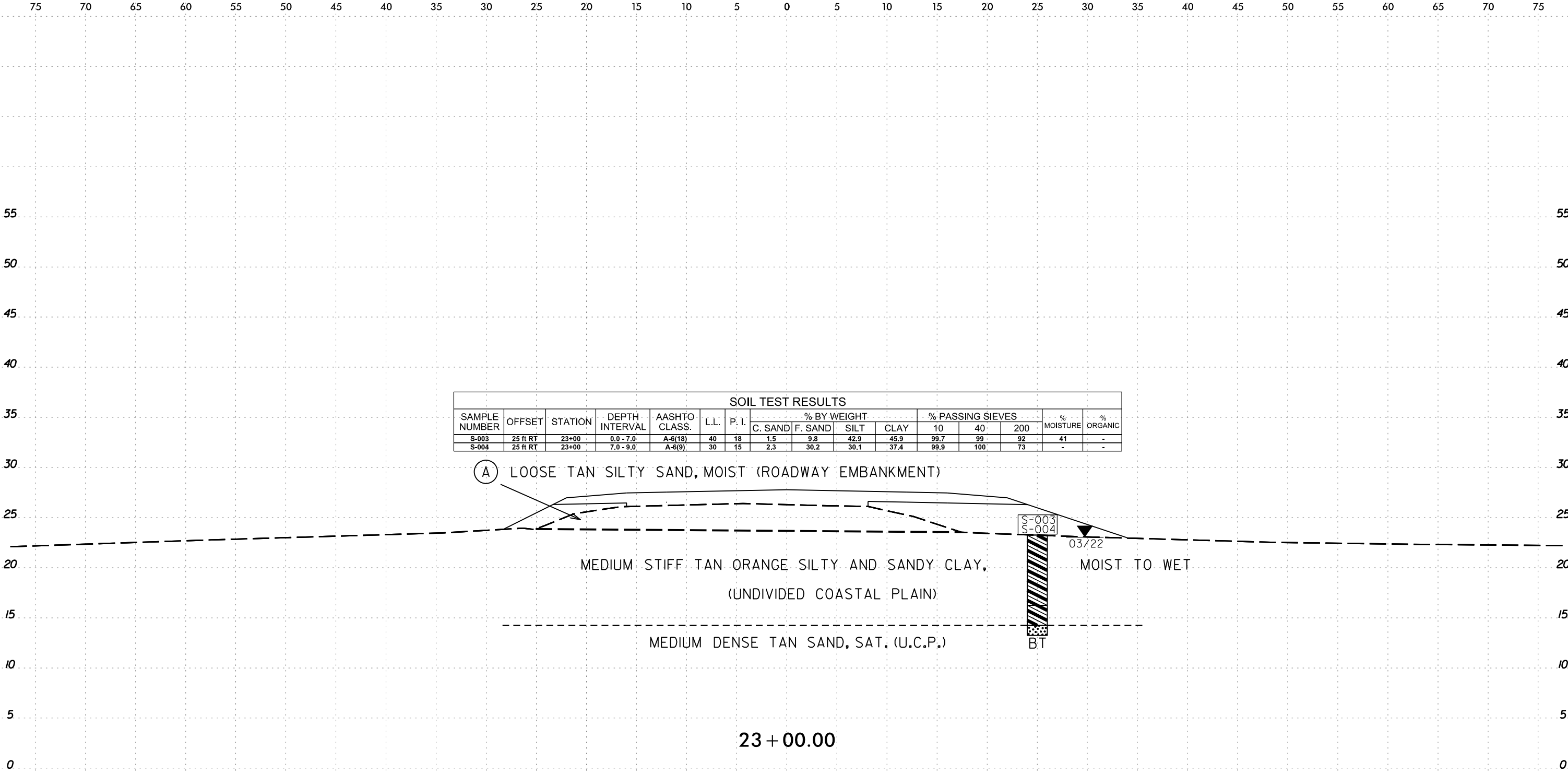
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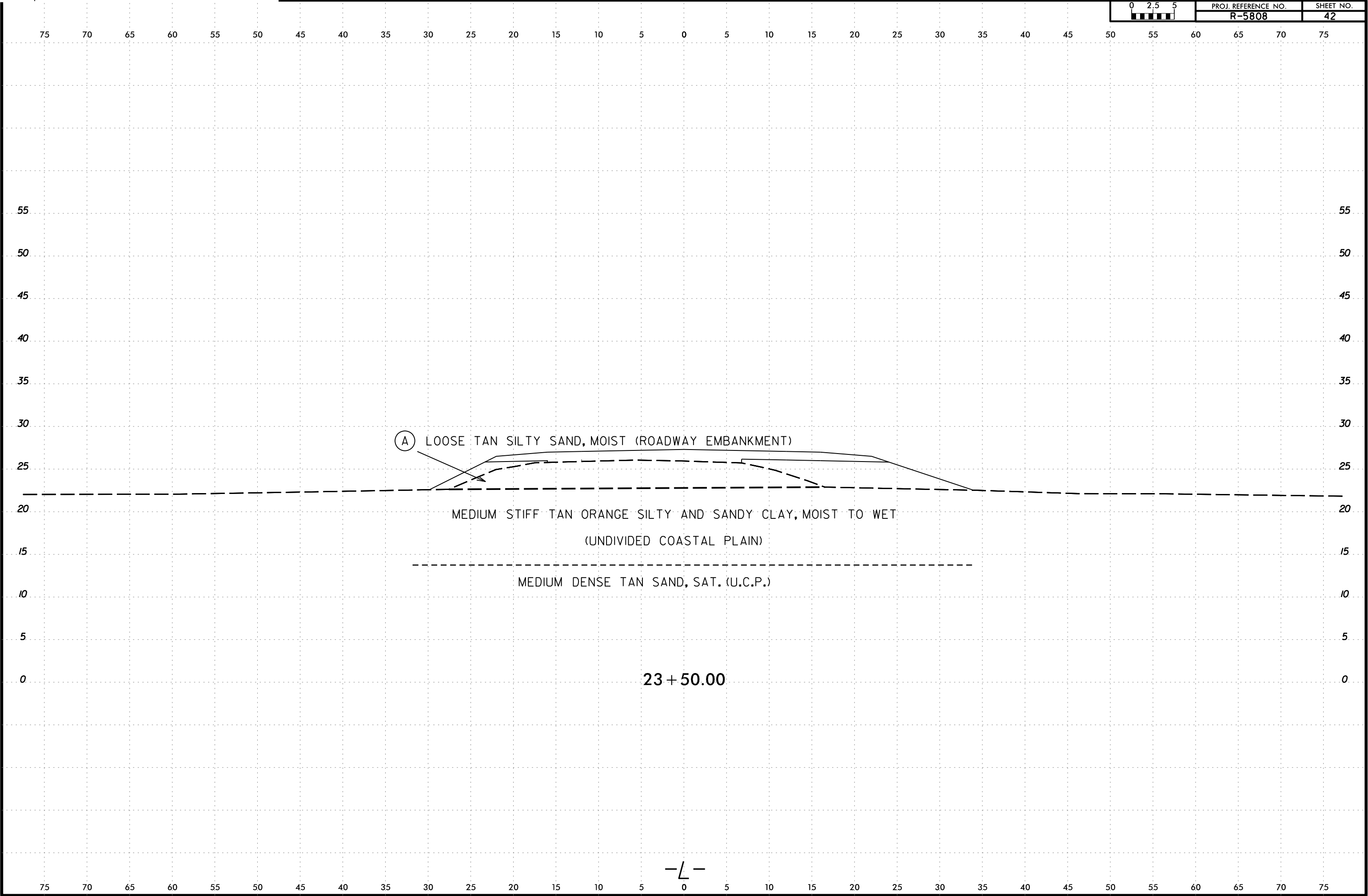


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-003	25 ft RT	23+00	0.0 - 7.0	A-6(18)	40	18	1.5	9.8	42.9	45.9	99.7	99	92	41	-
S-004	25 ft RT	23+00	7.0 - 9.0	A-6(9)	30	15	2.3	30.2	30.1	37.4	99.9	100	73	-	-

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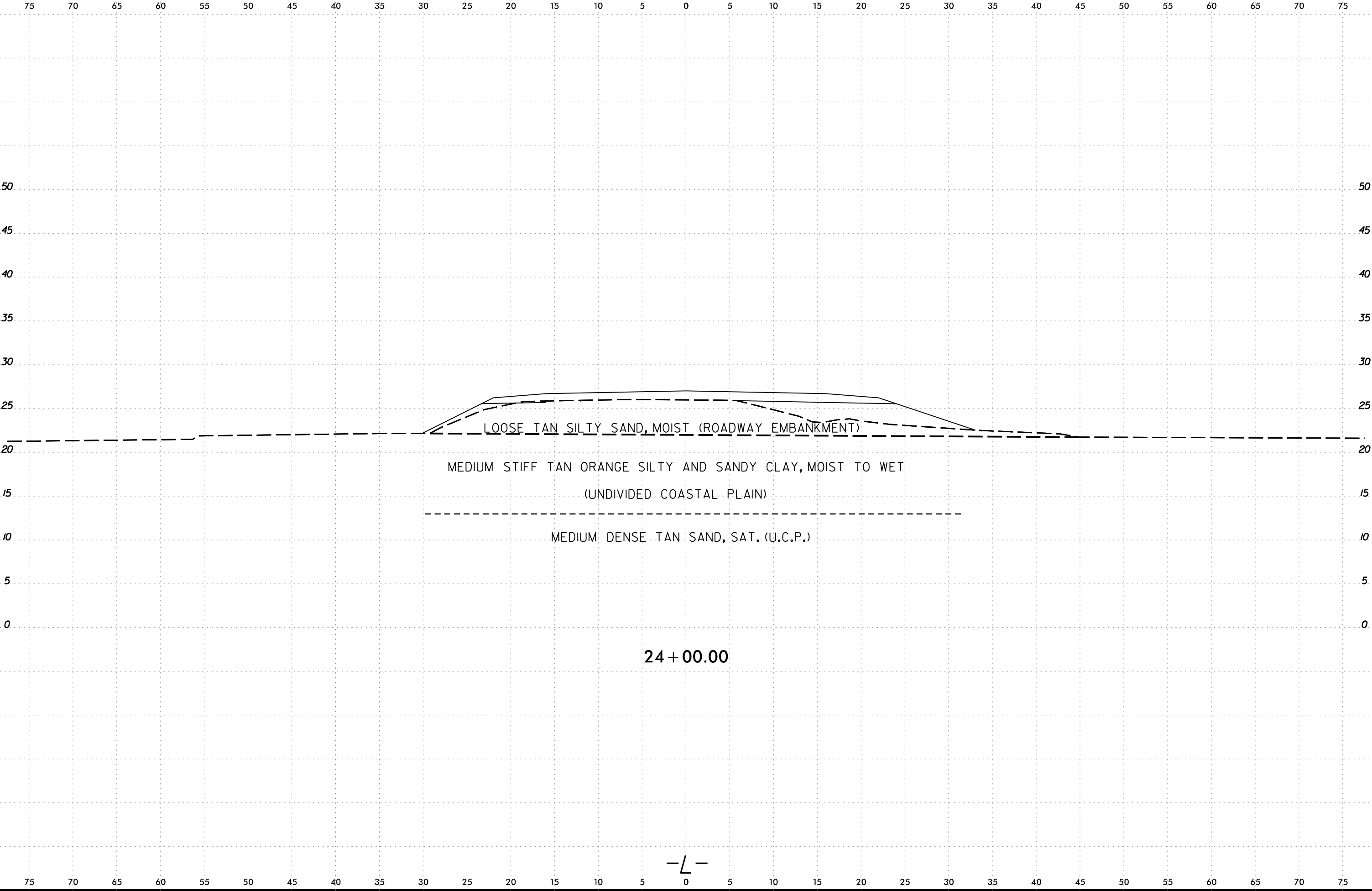
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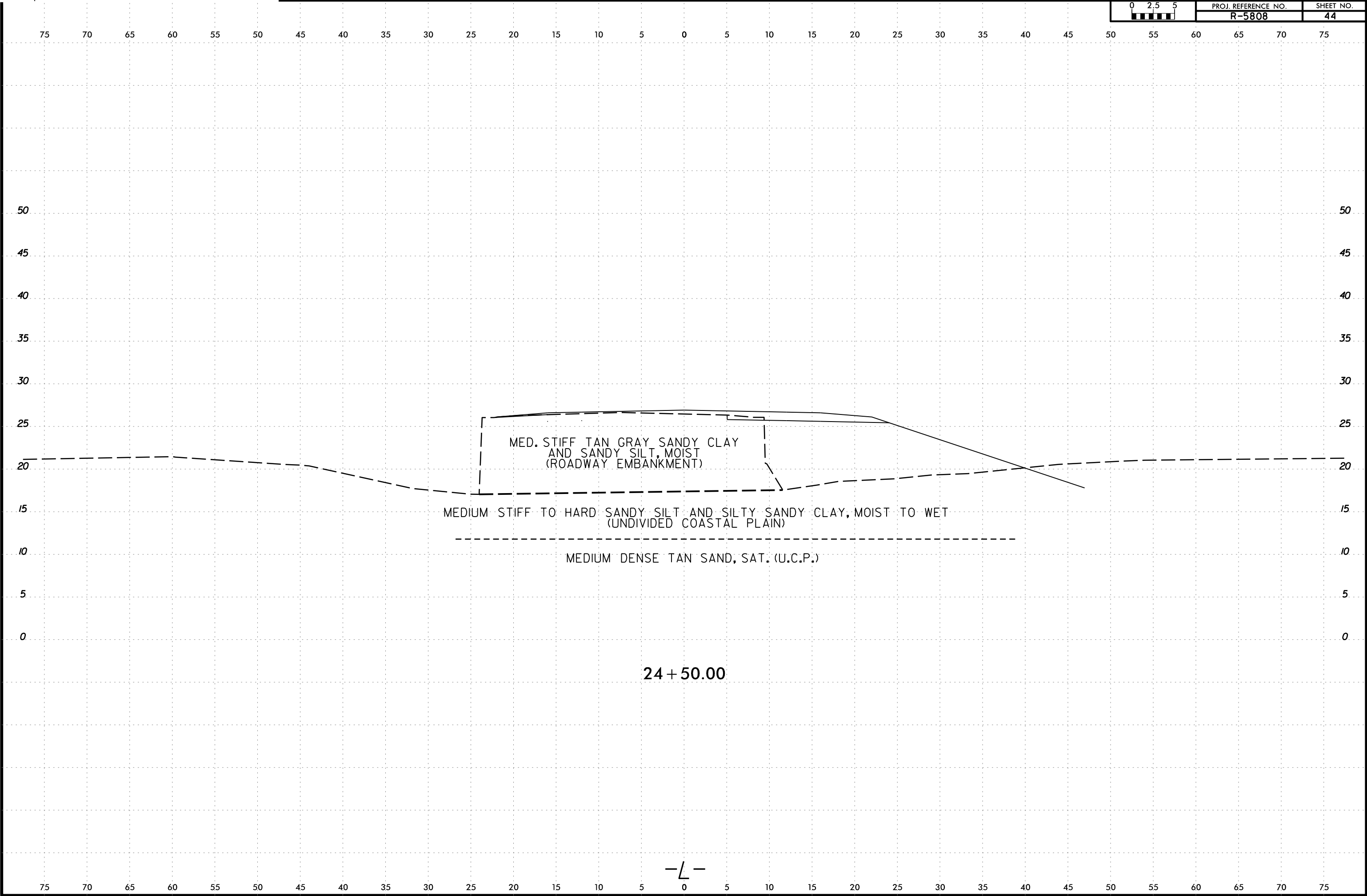
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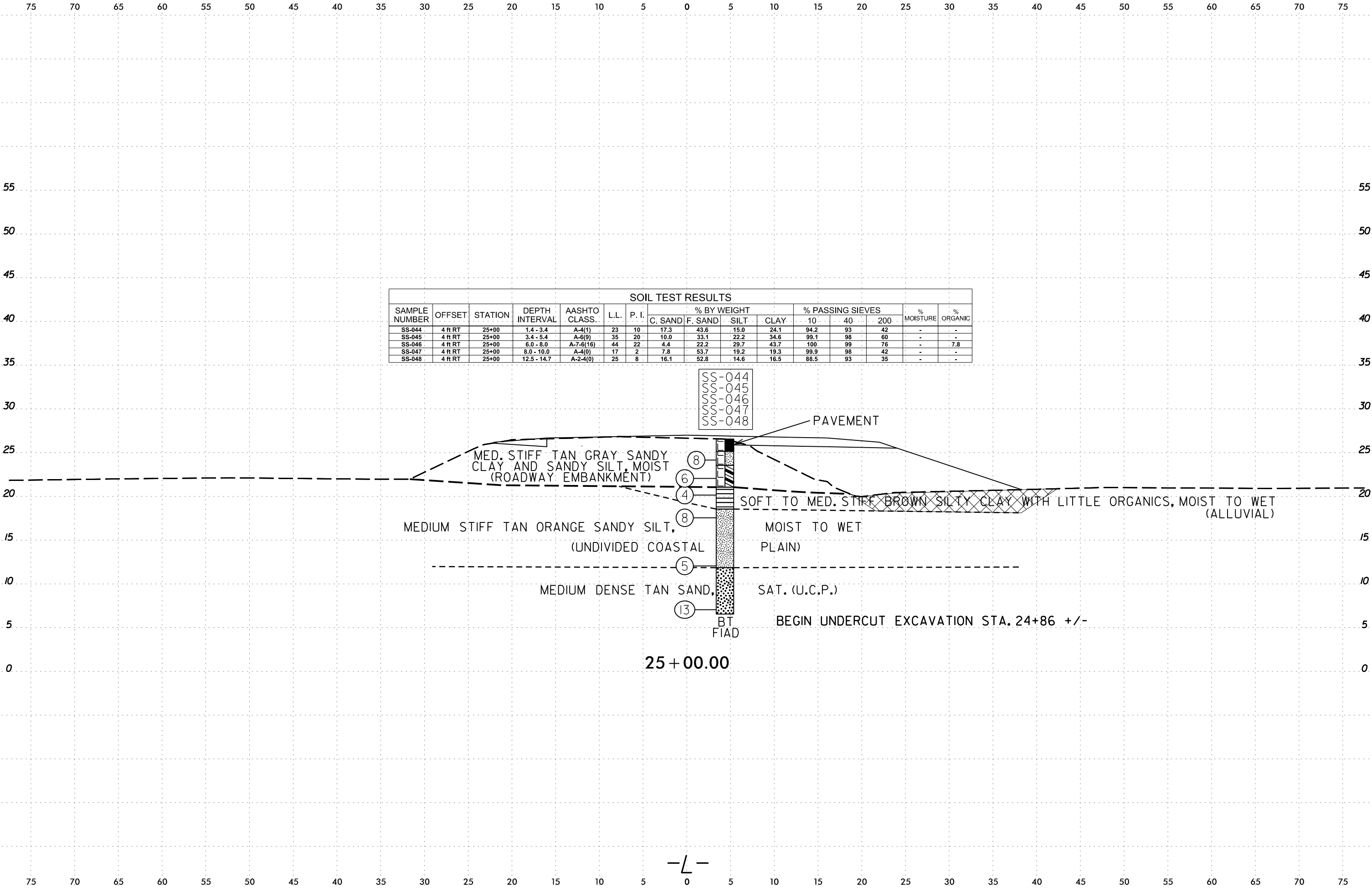
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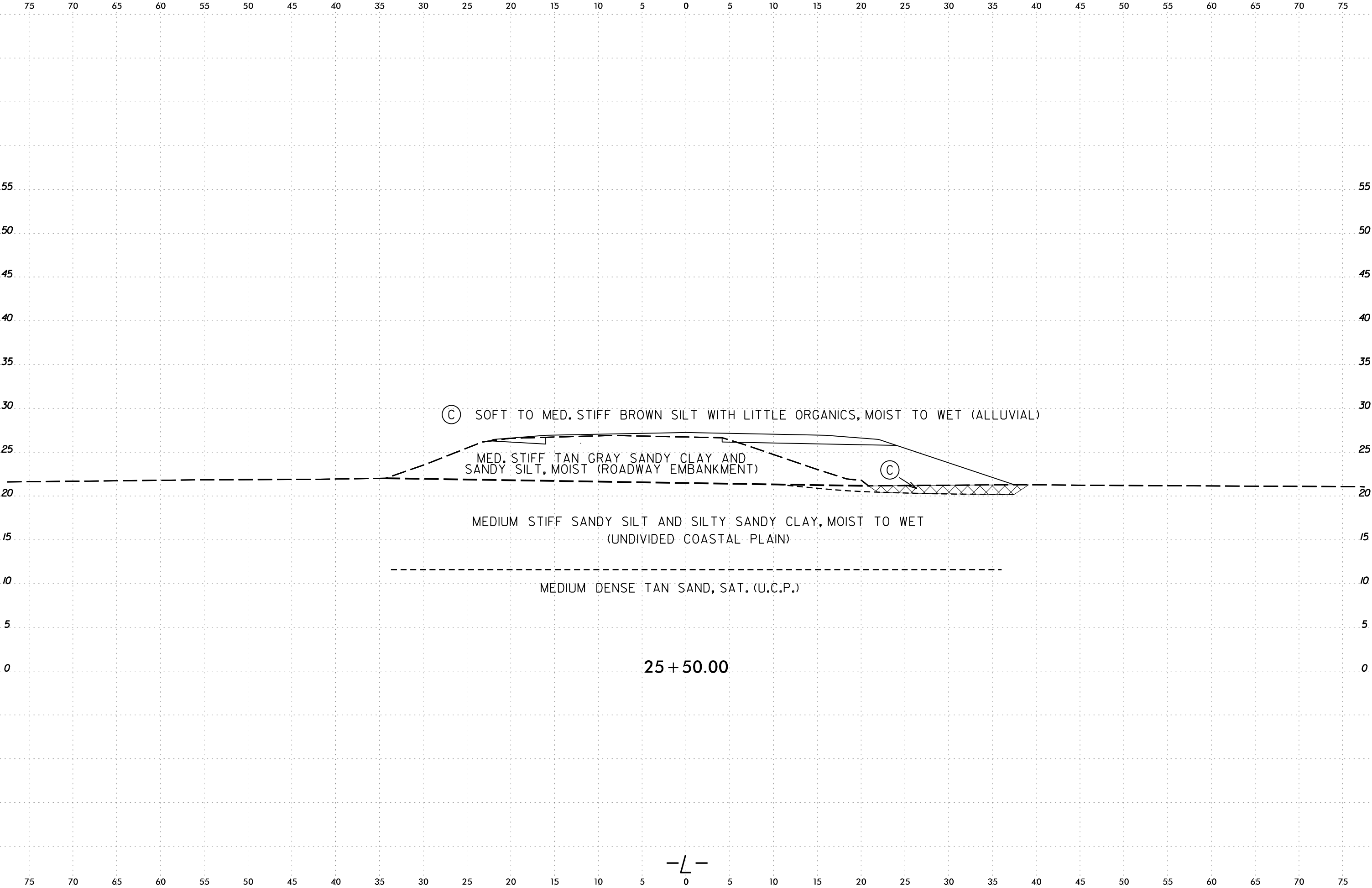
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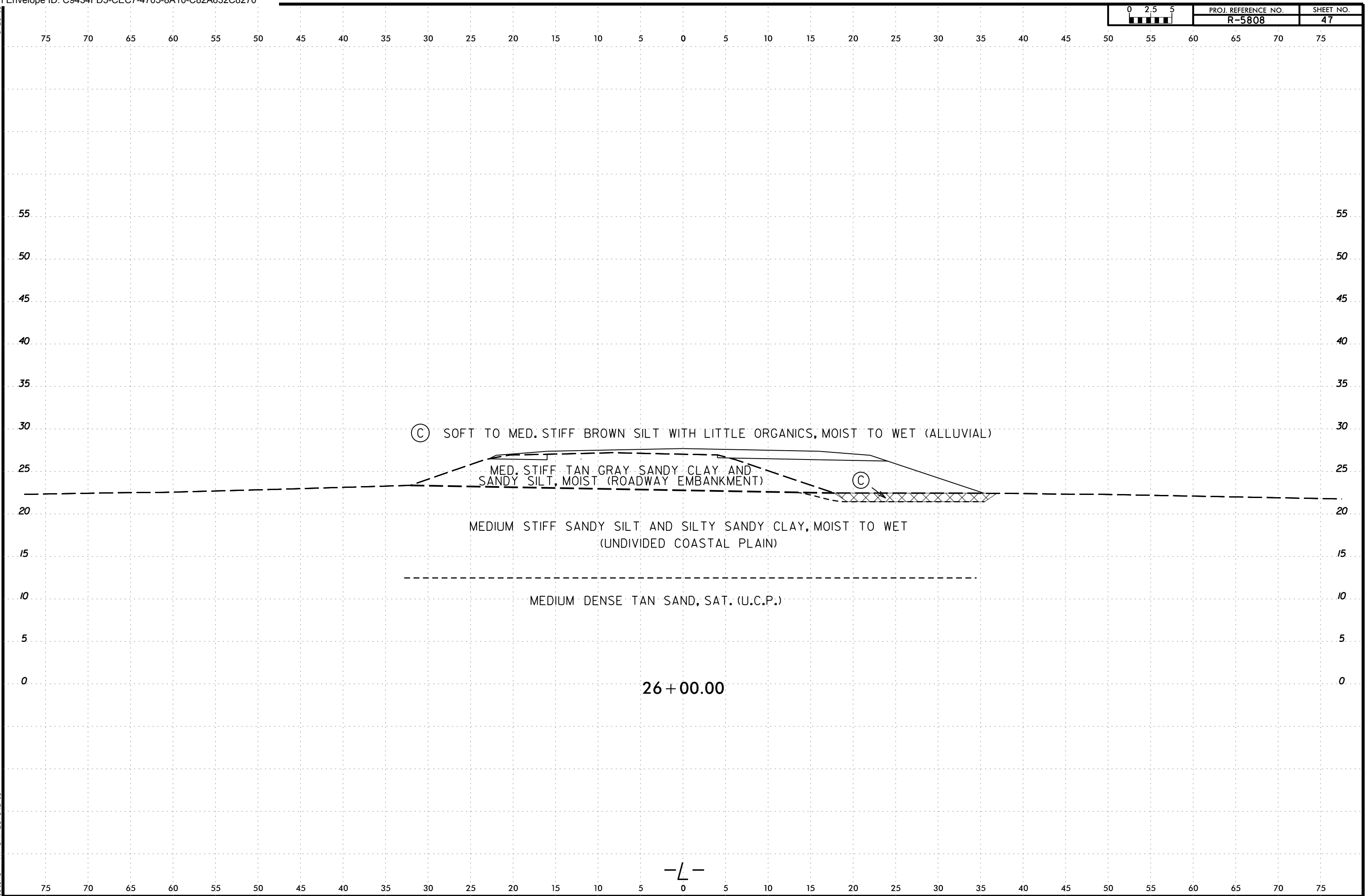


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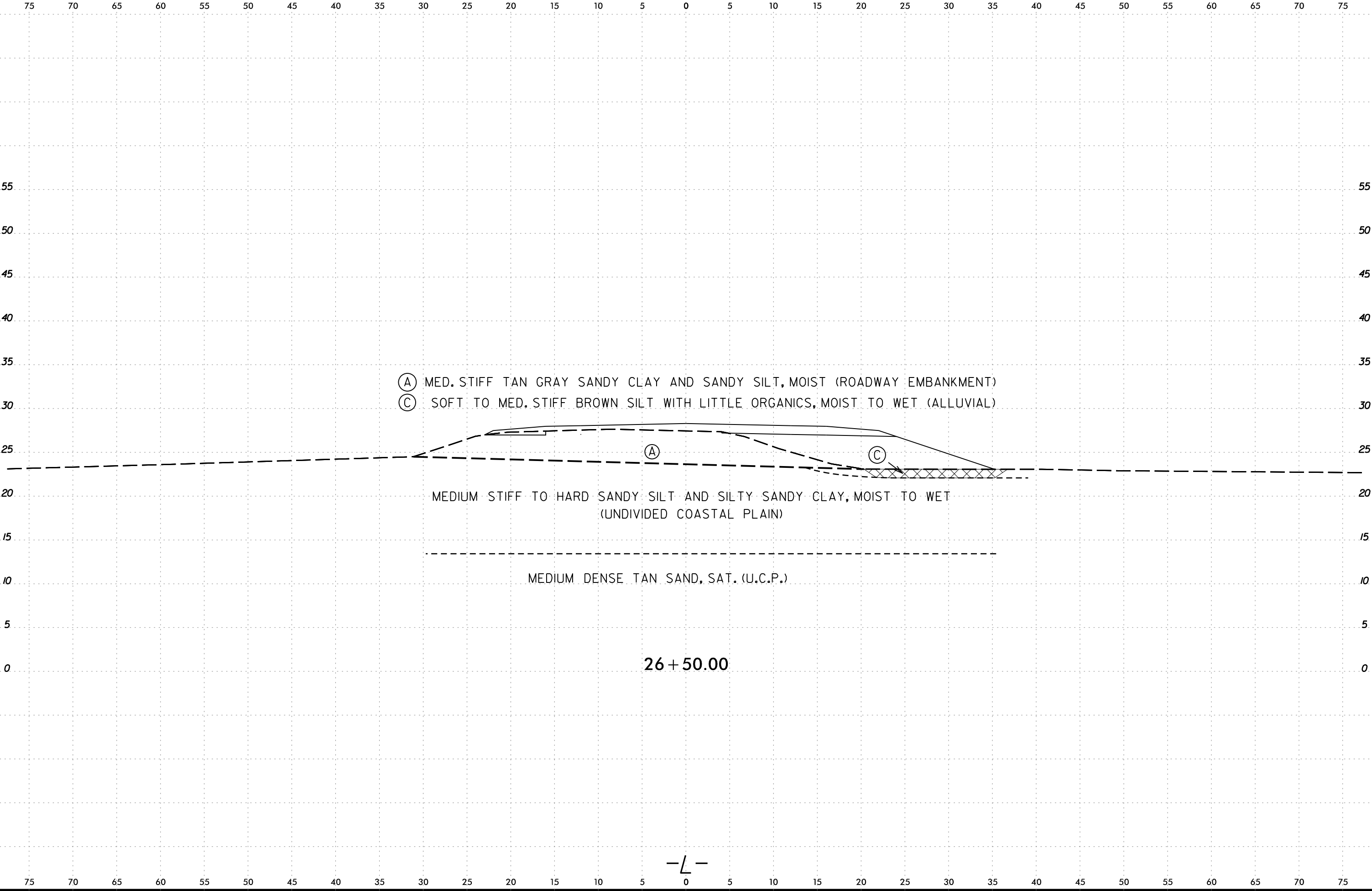




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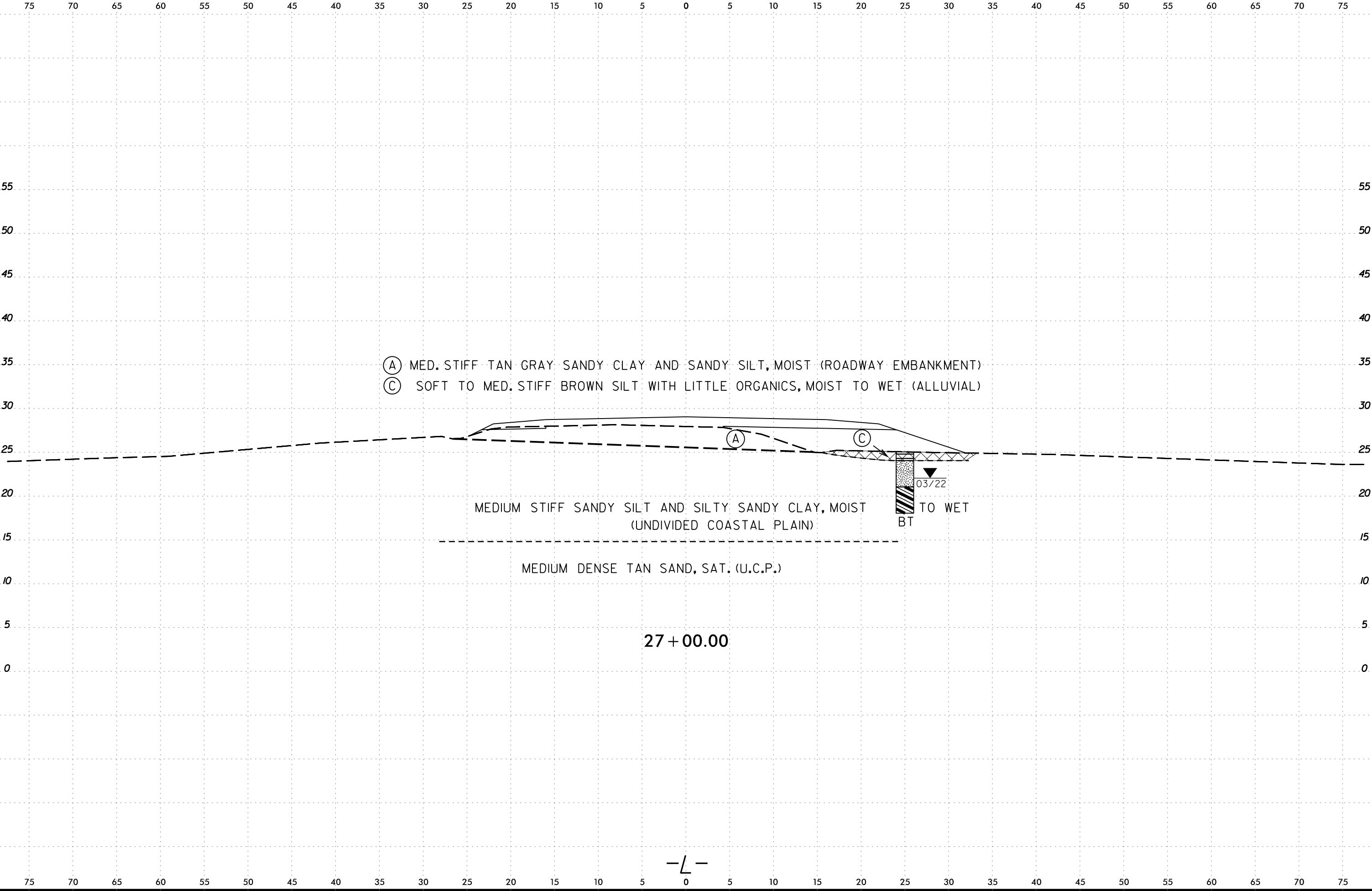
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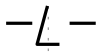


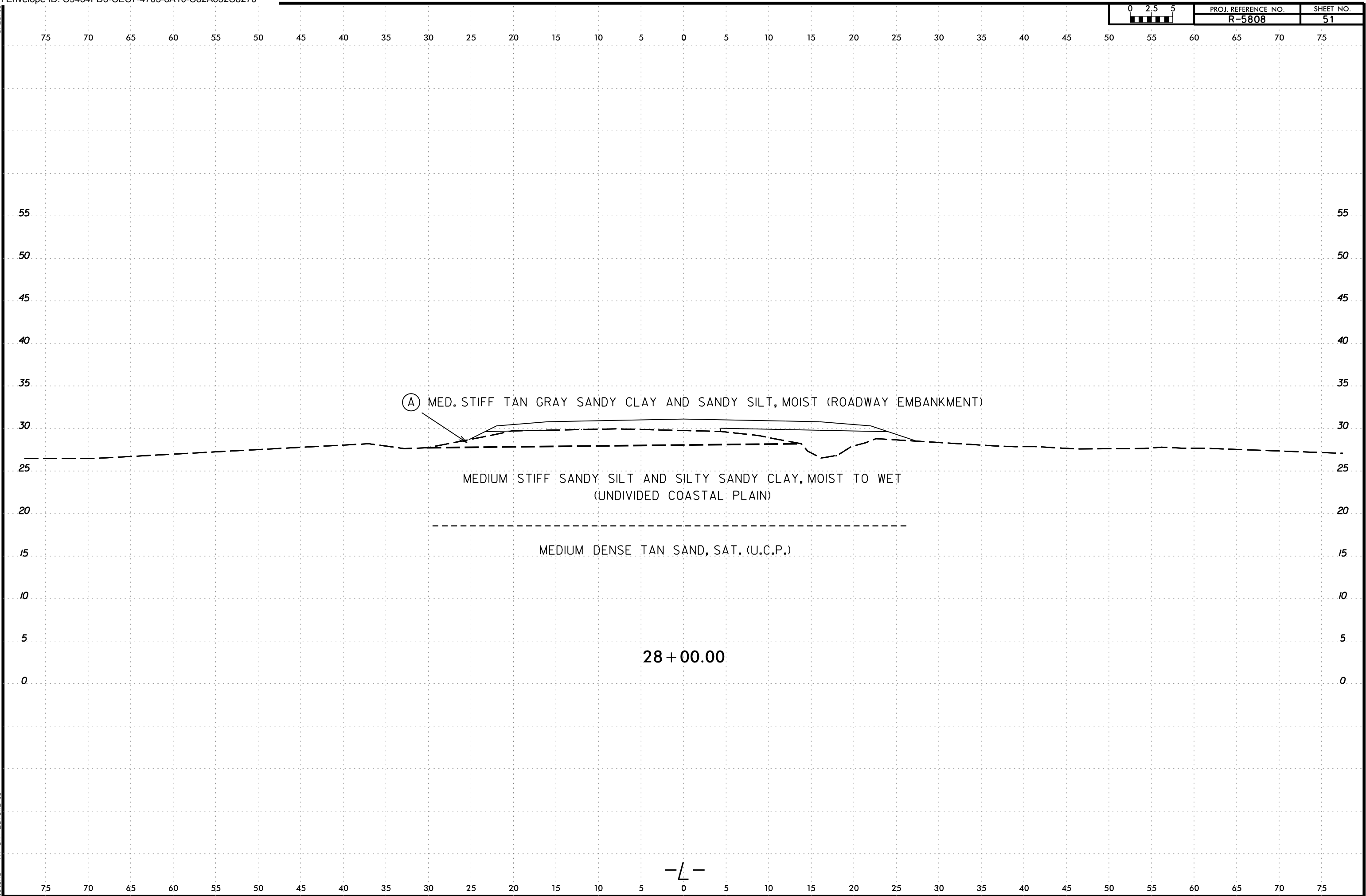
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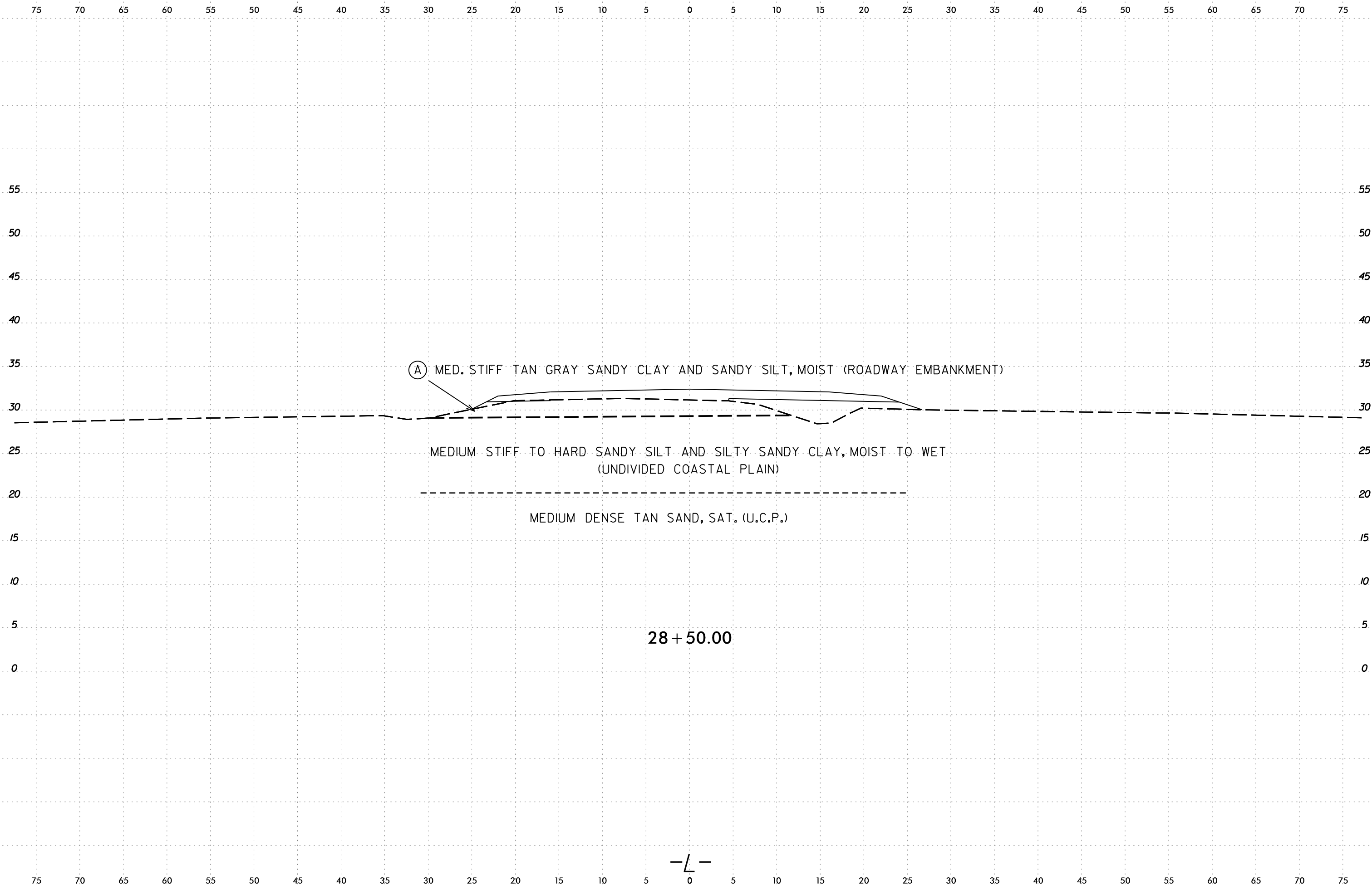
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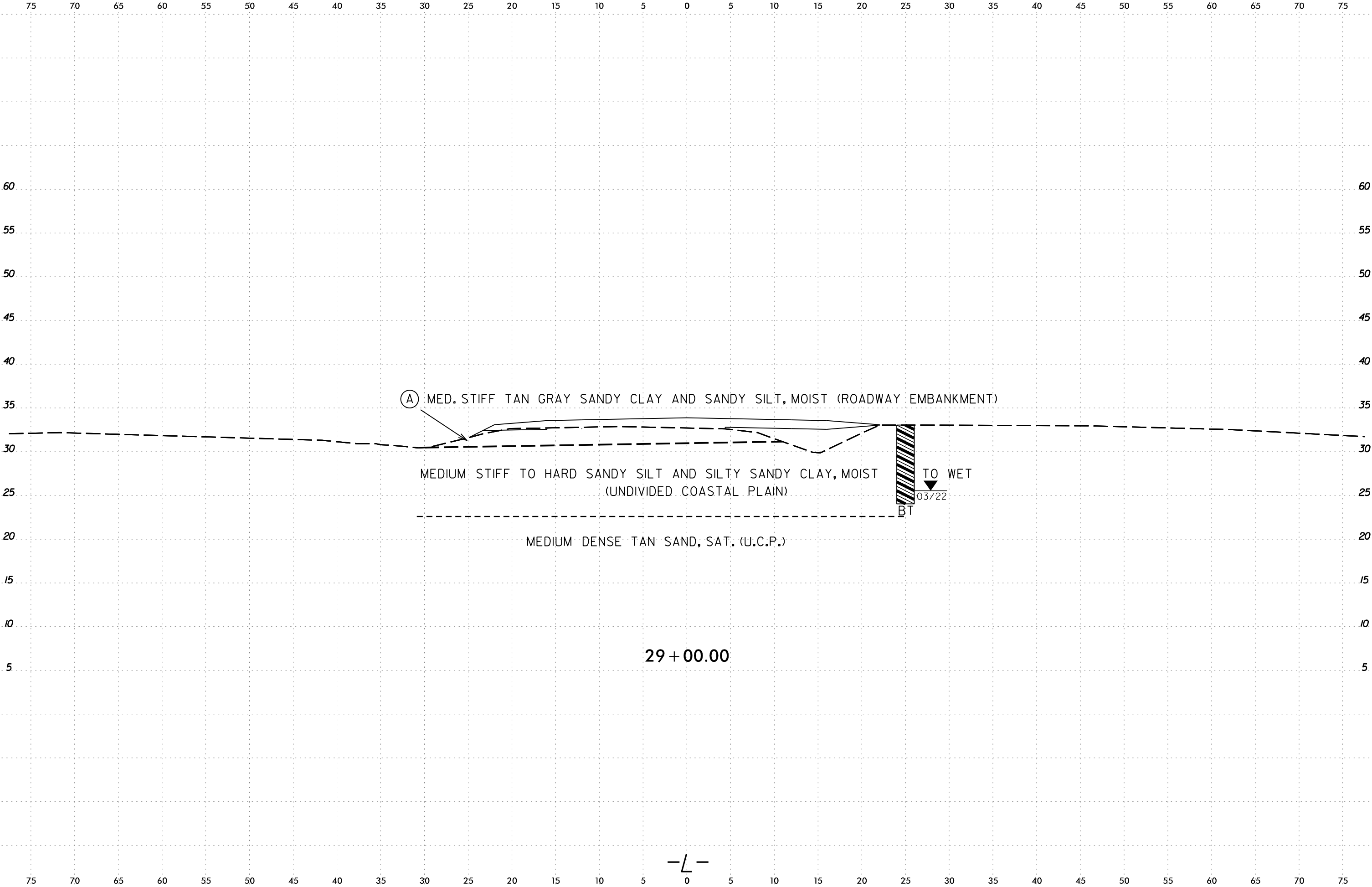




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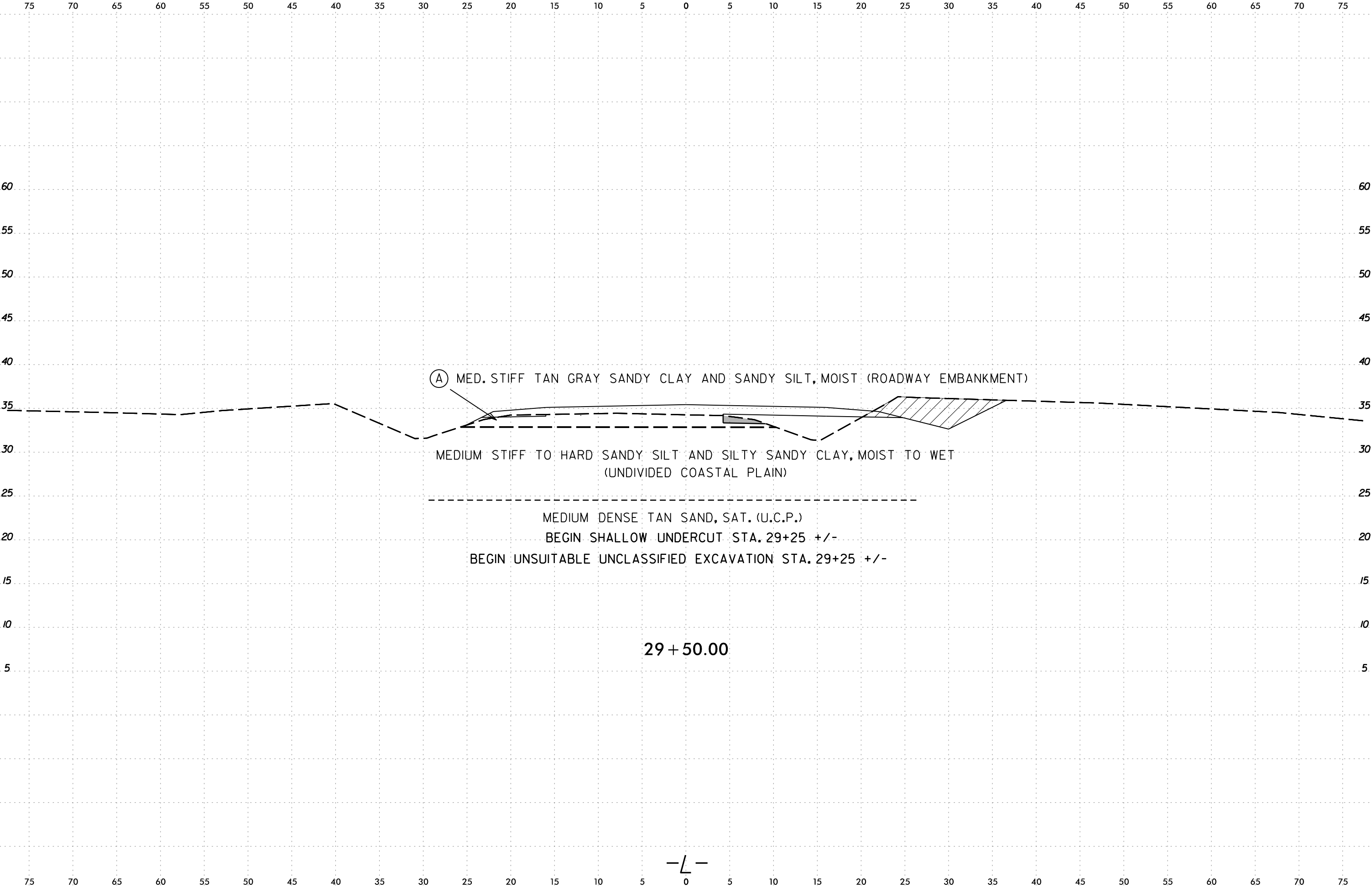
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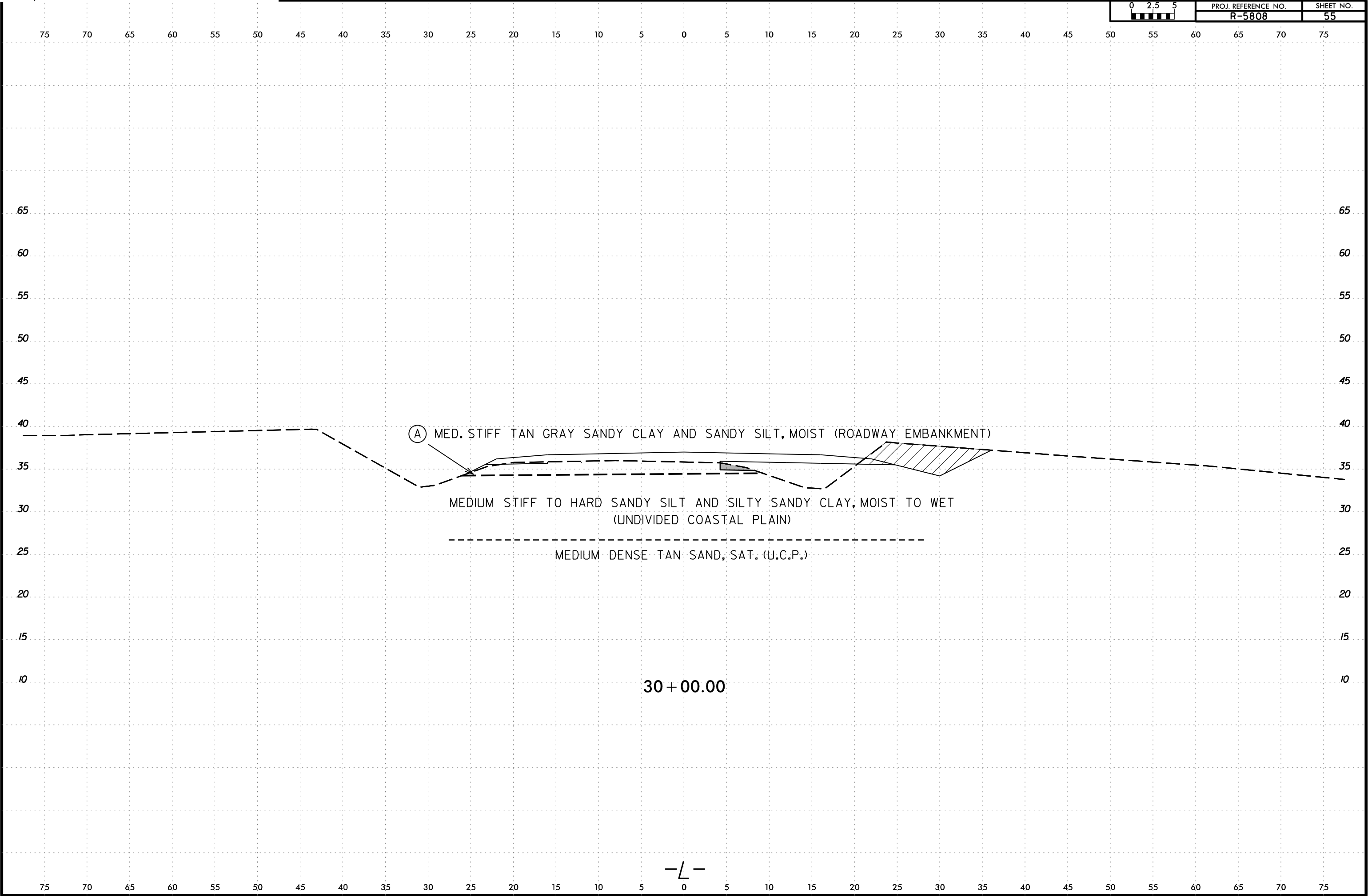
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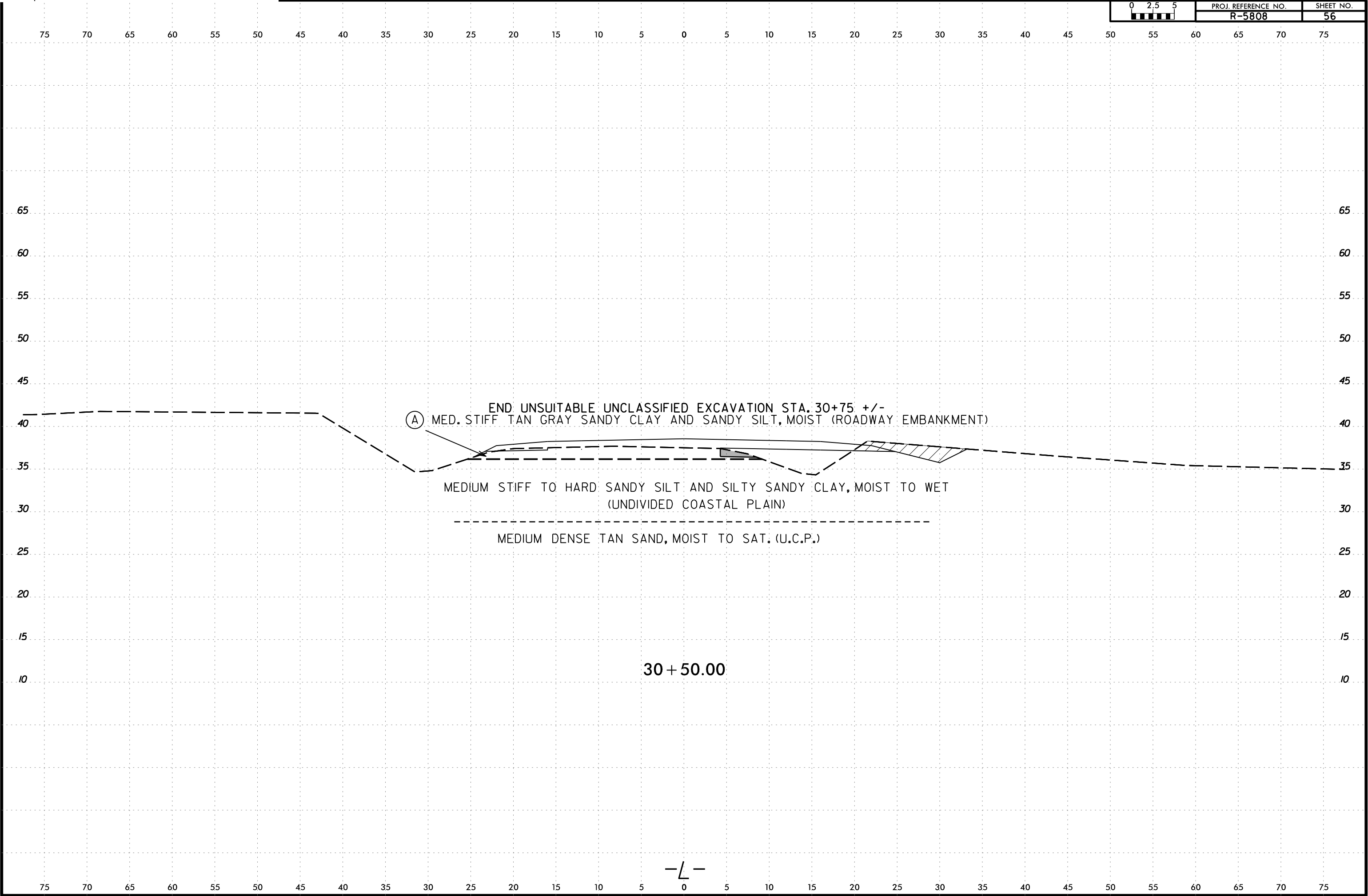
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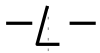


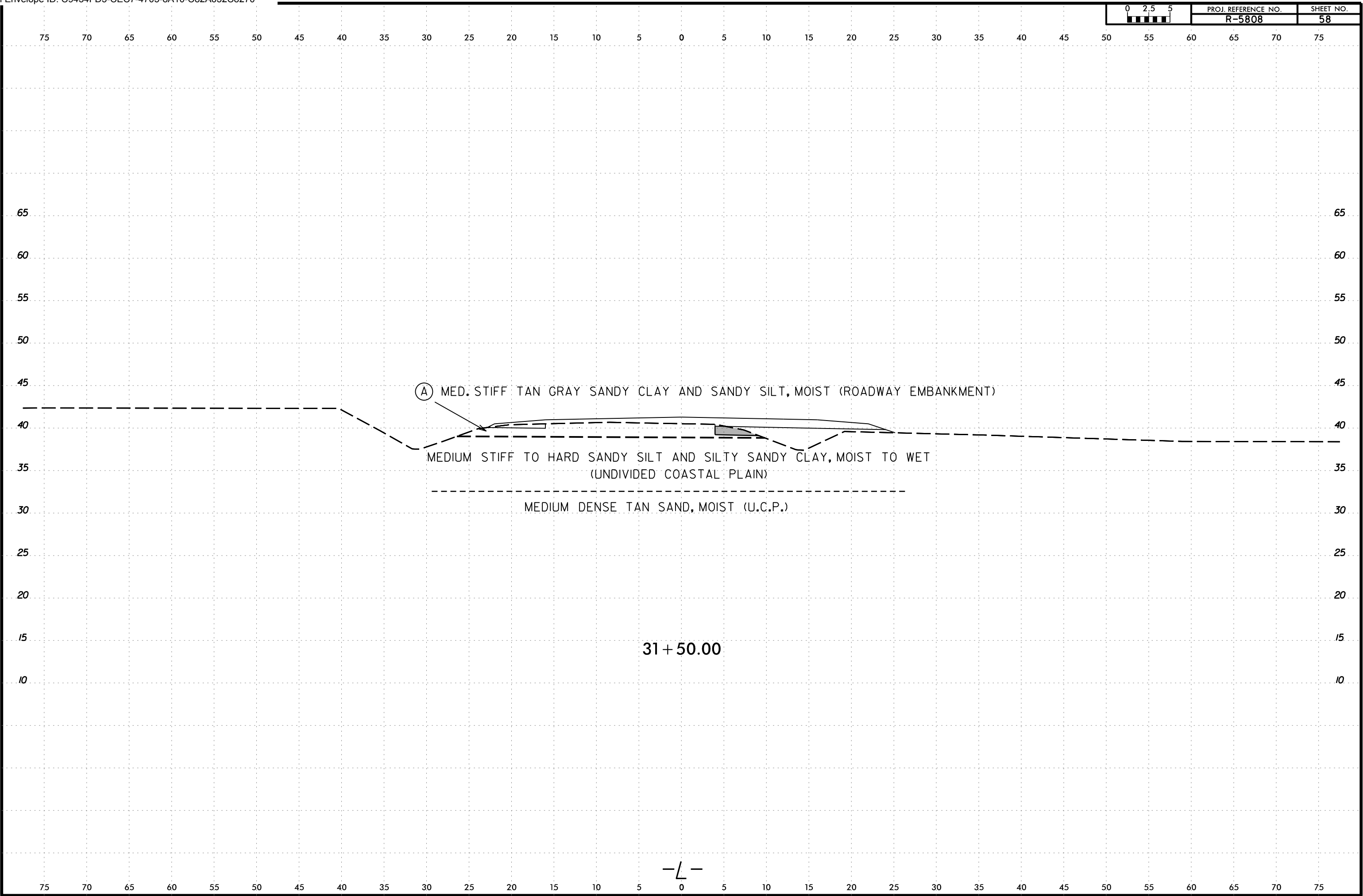
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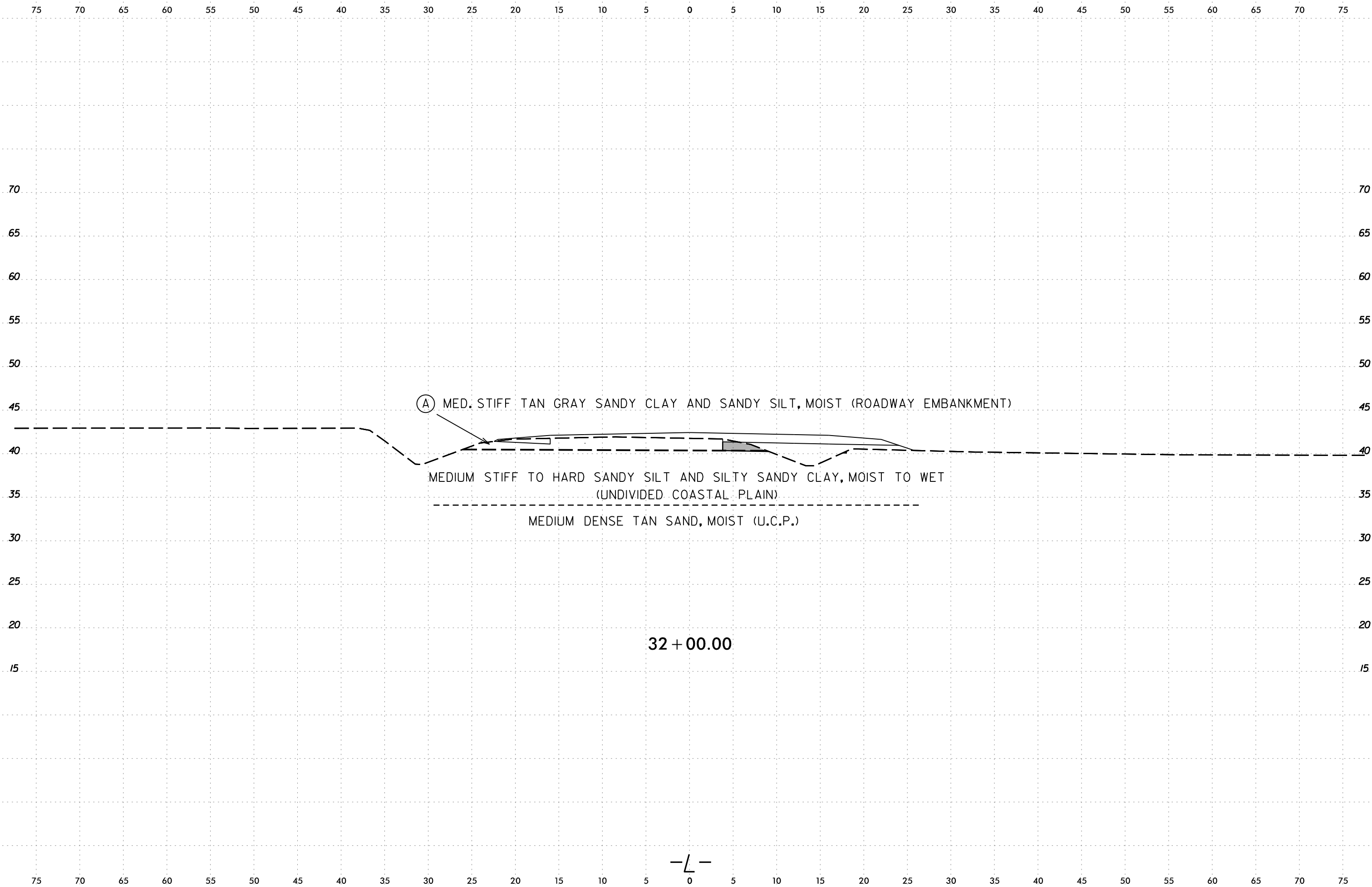
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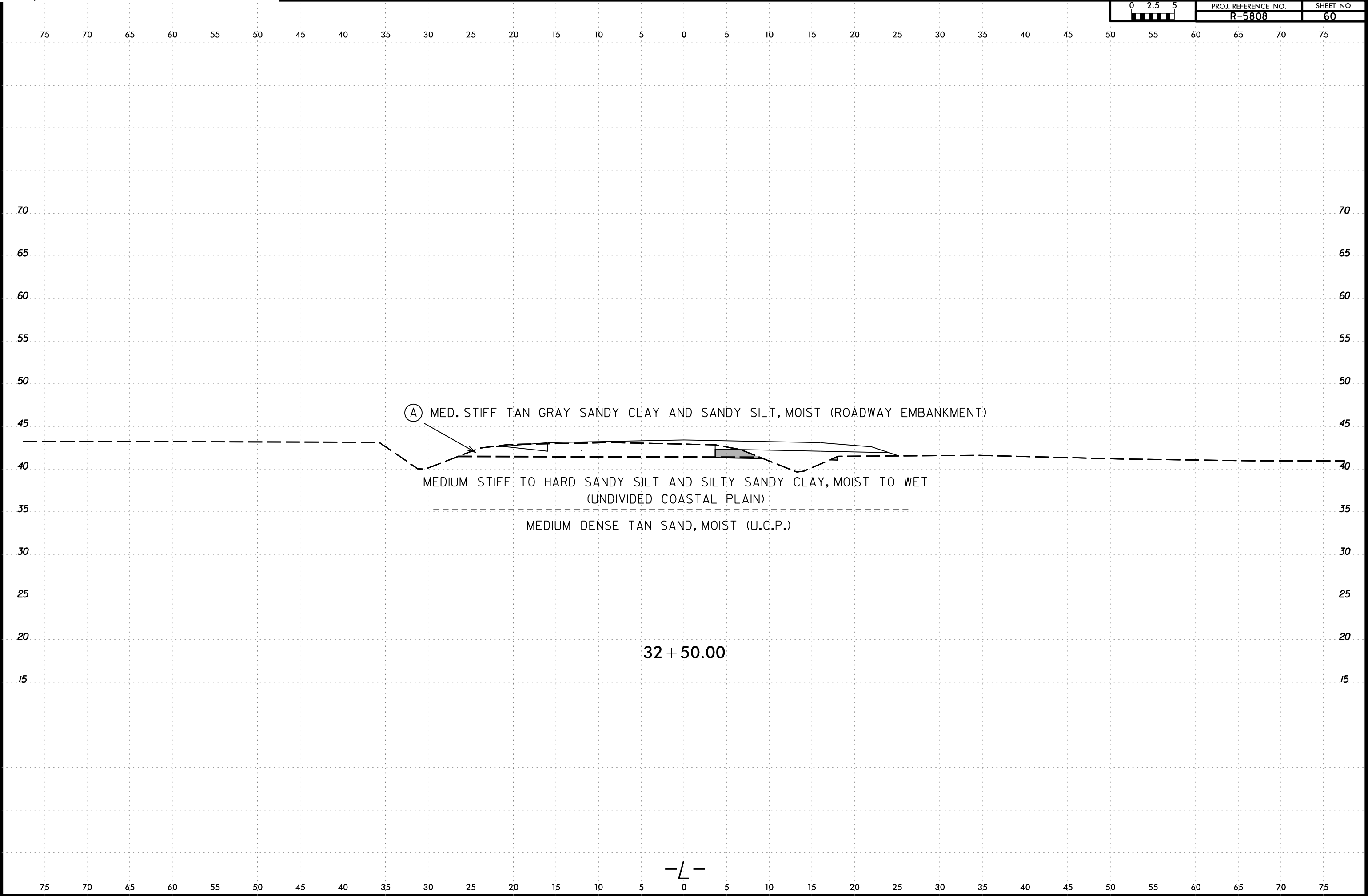


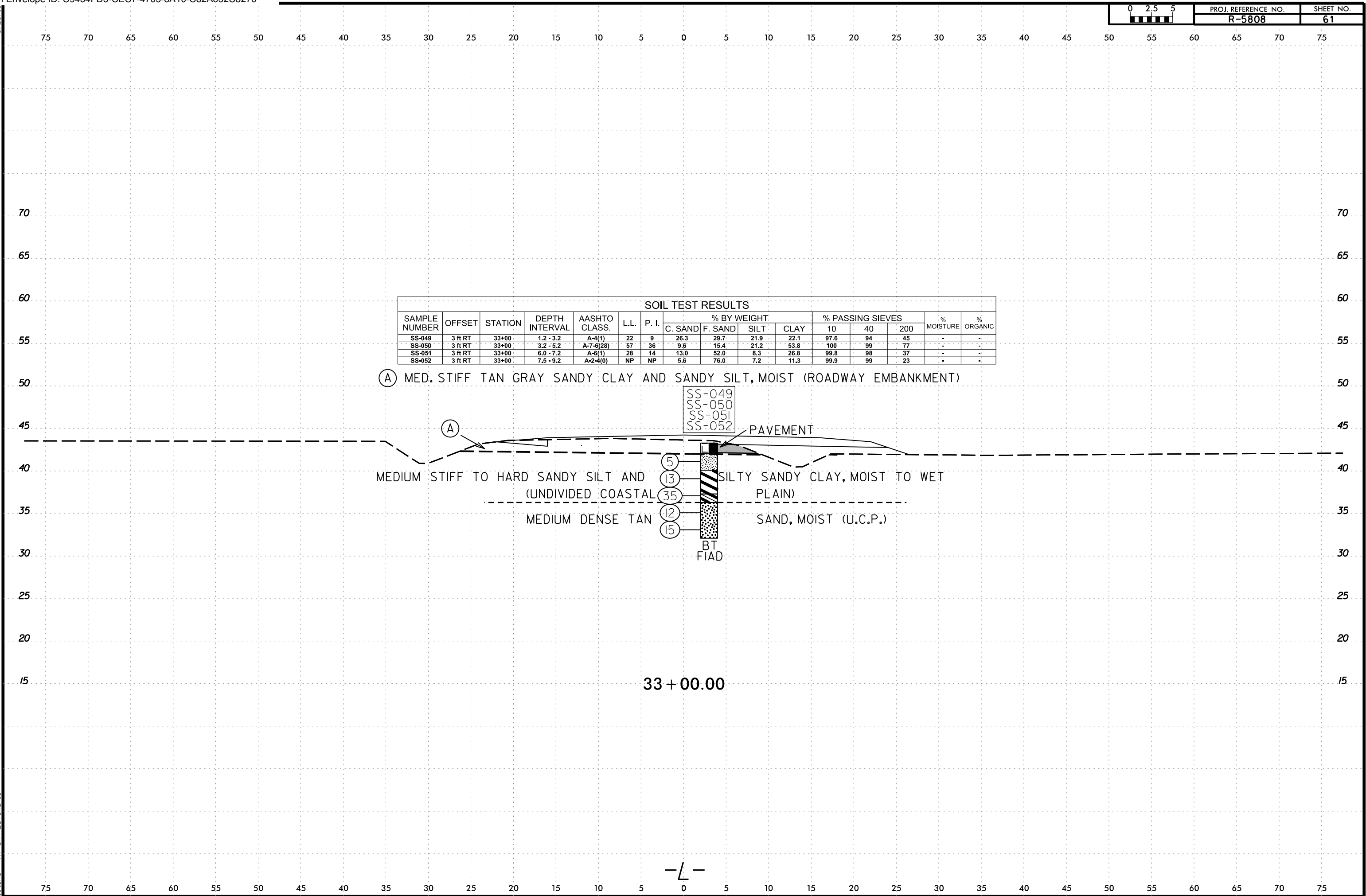


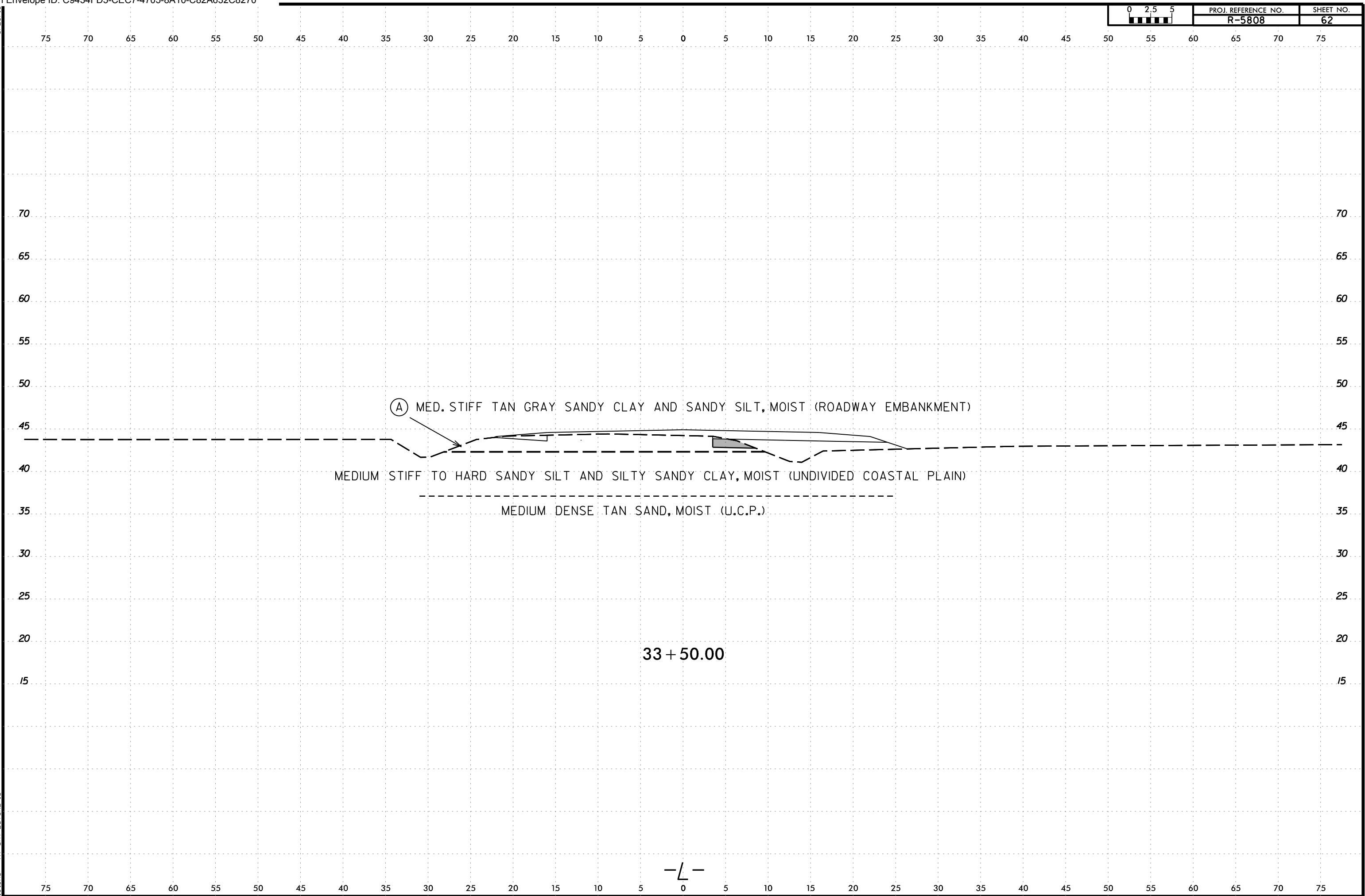
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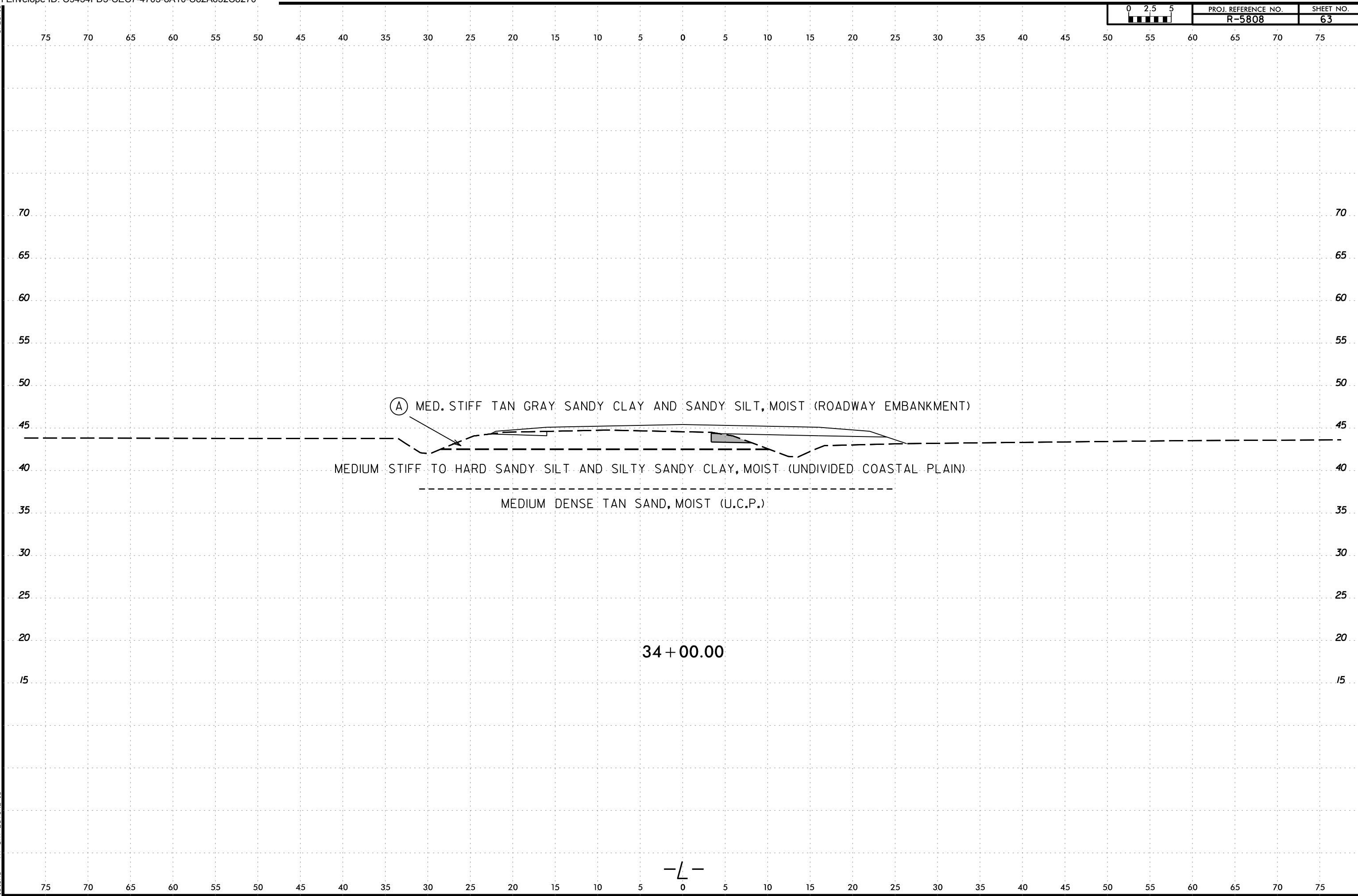
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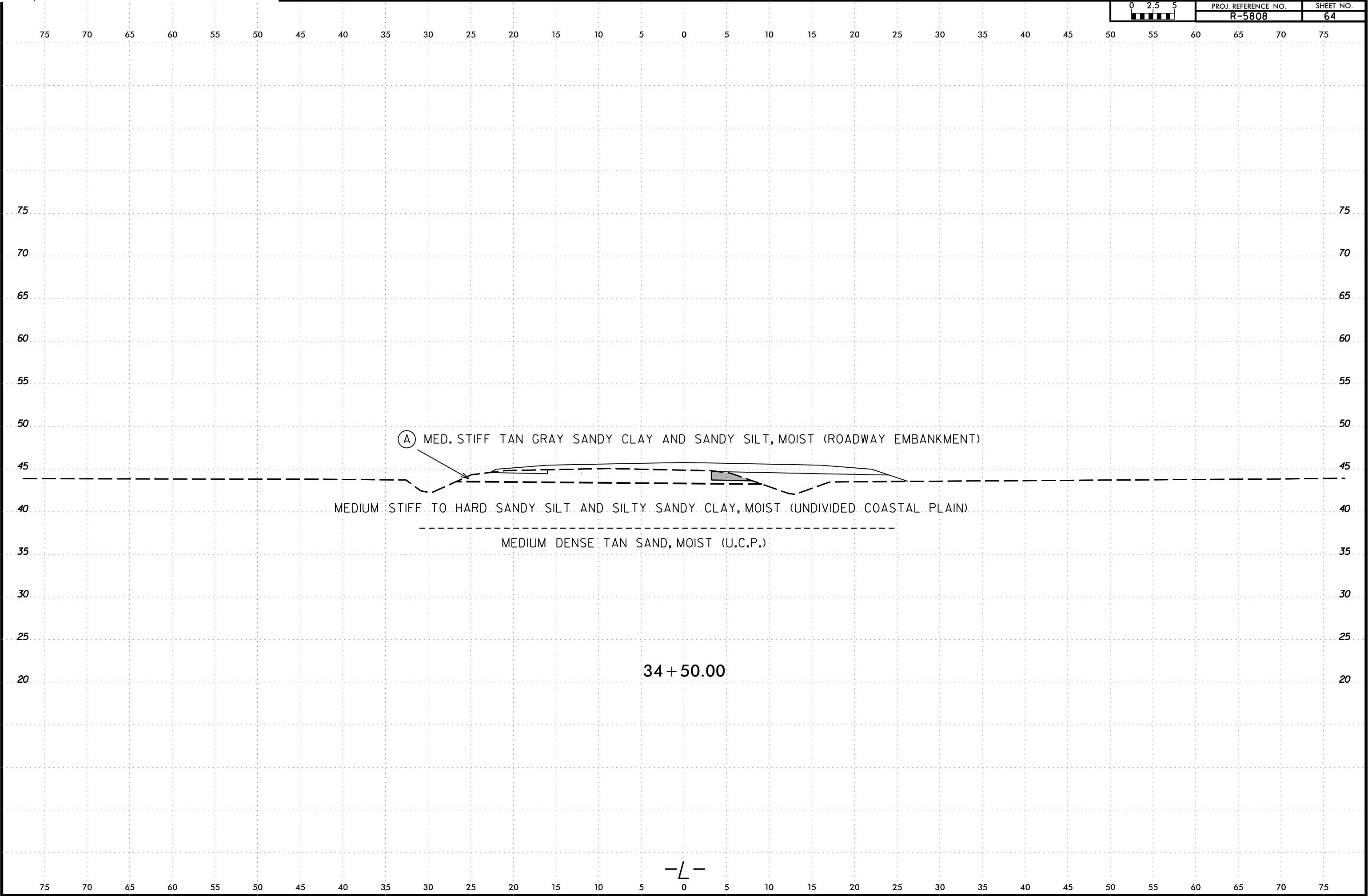




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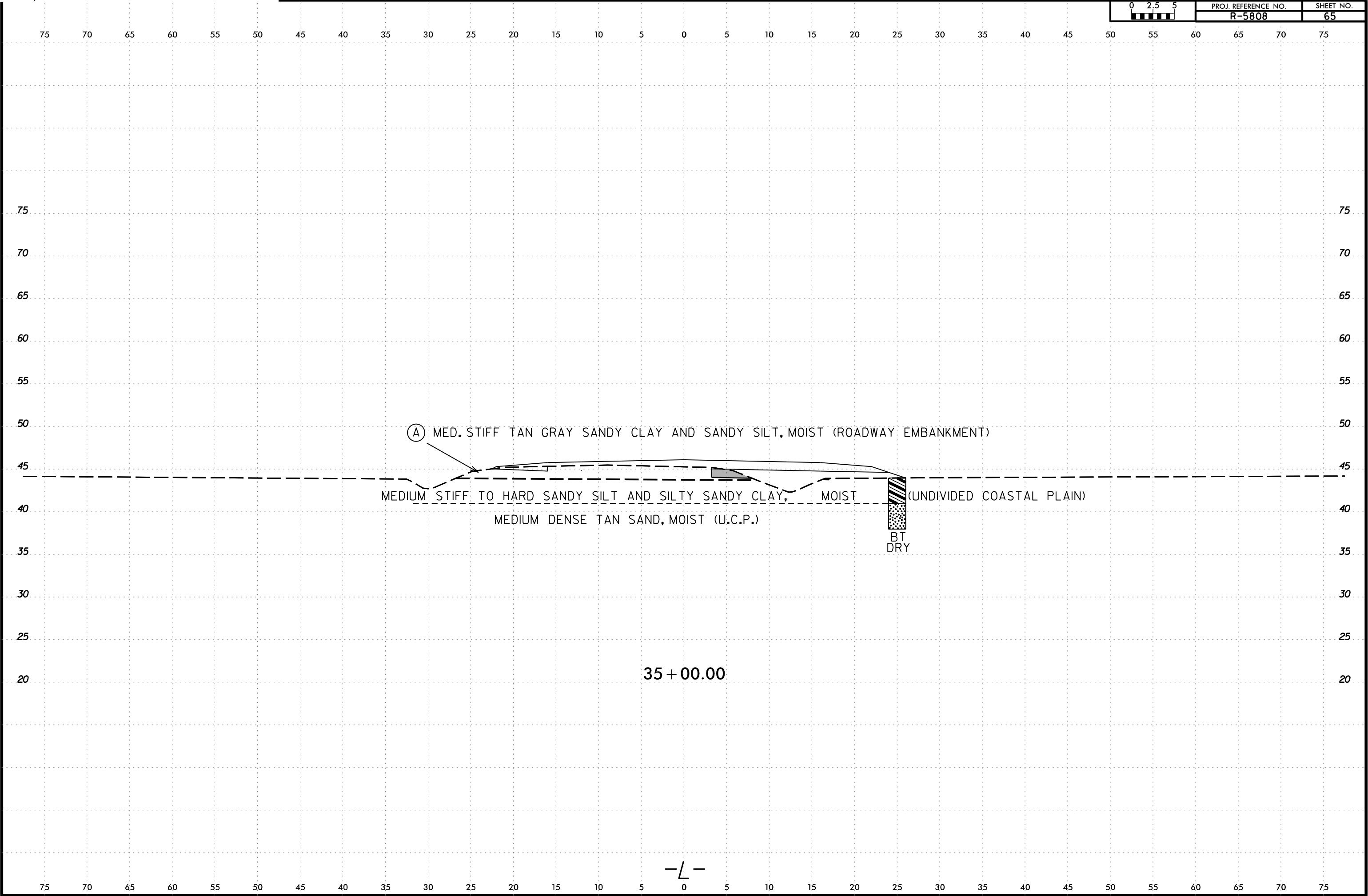
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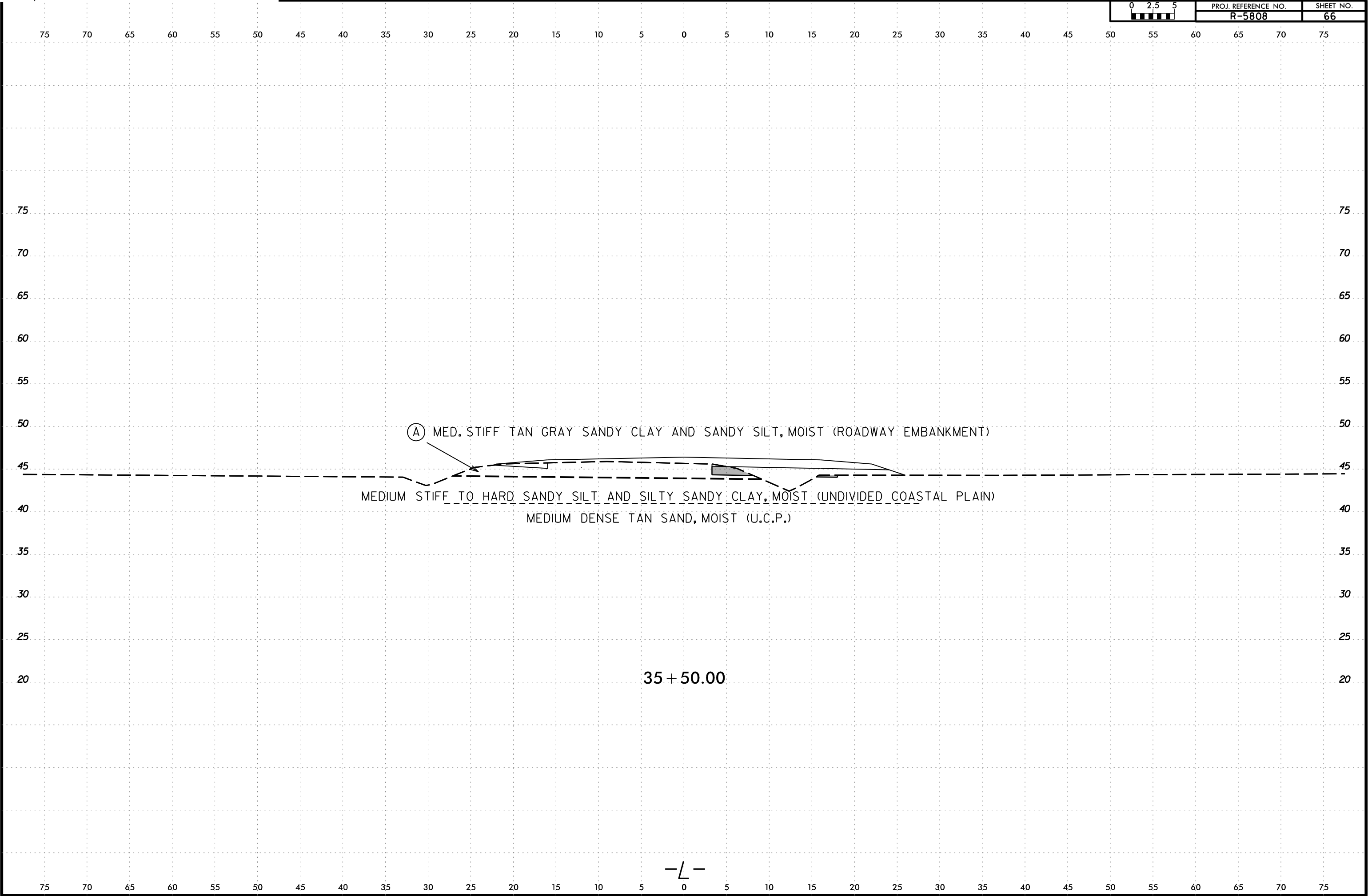
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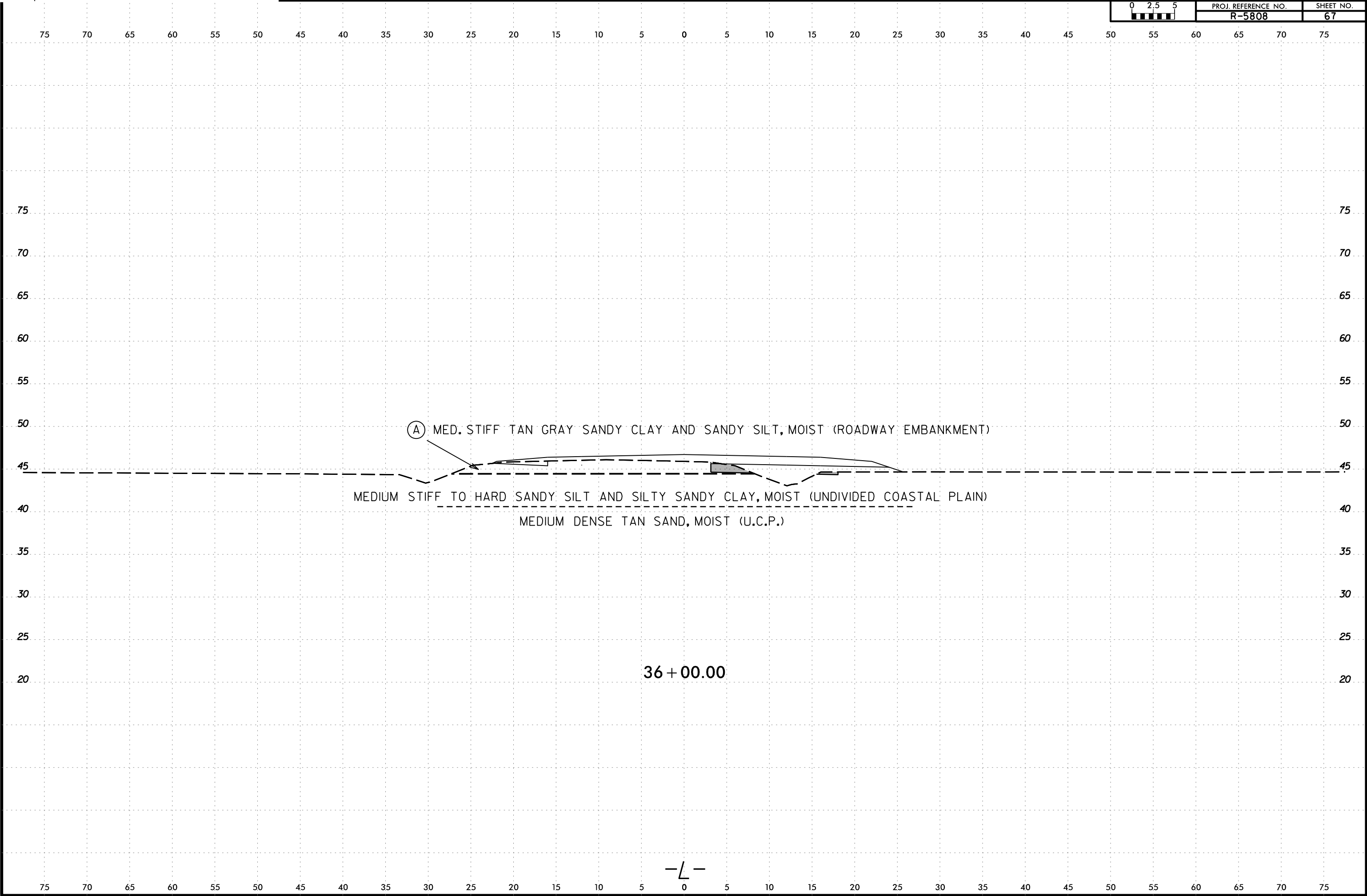
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AT CAT-1 STONE-18

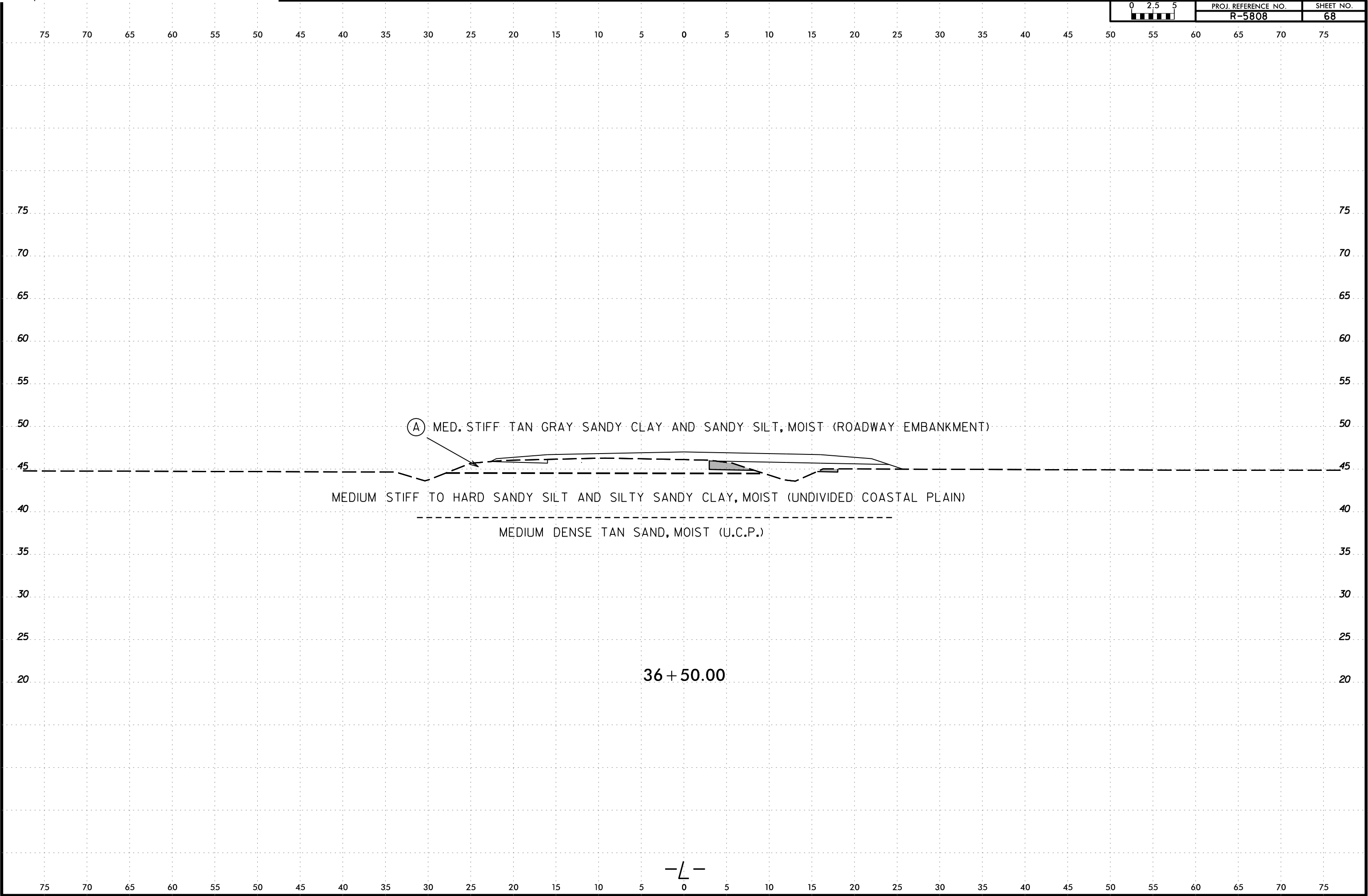
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	R-5808	67



6/23/16

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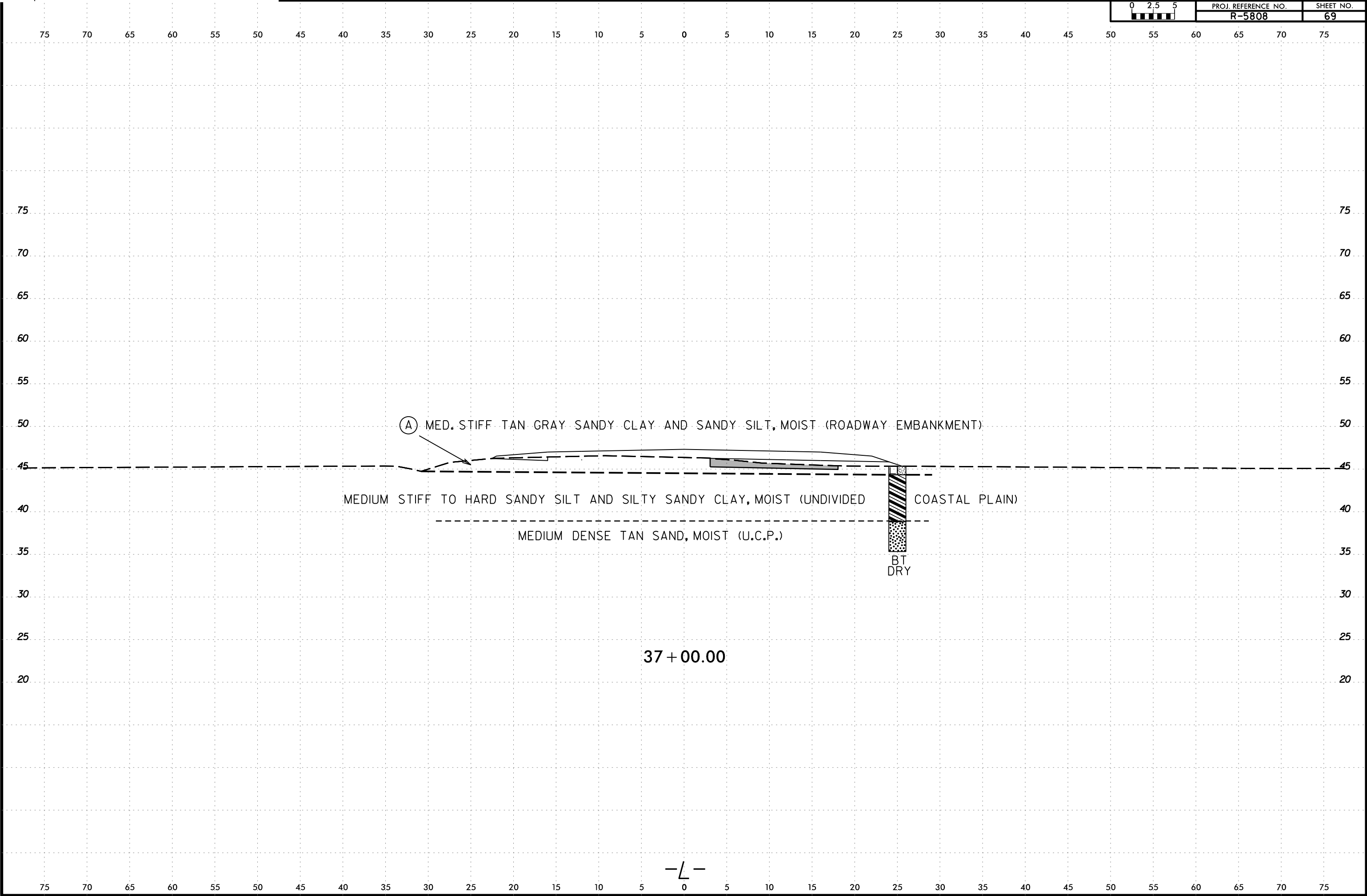
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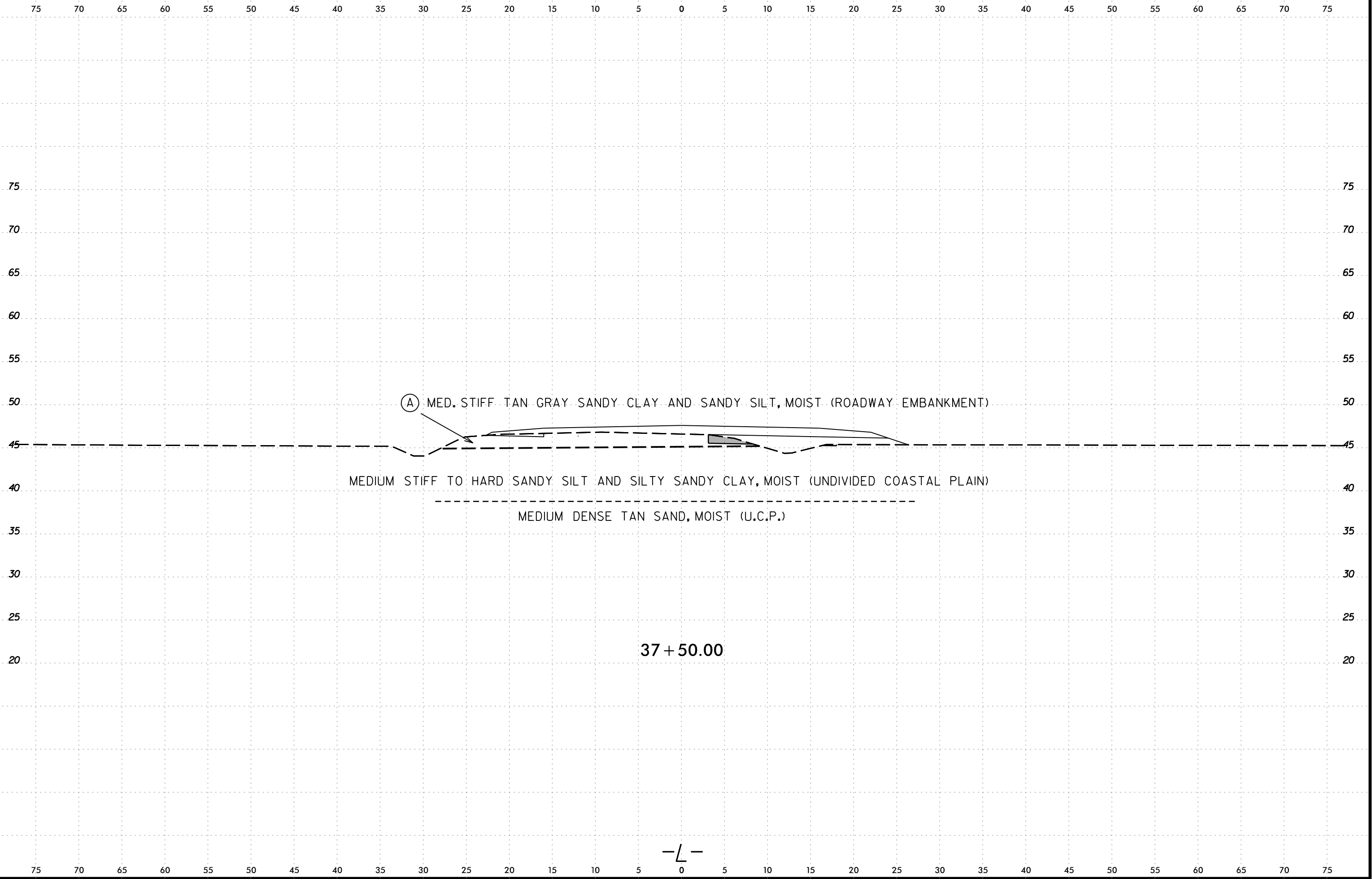


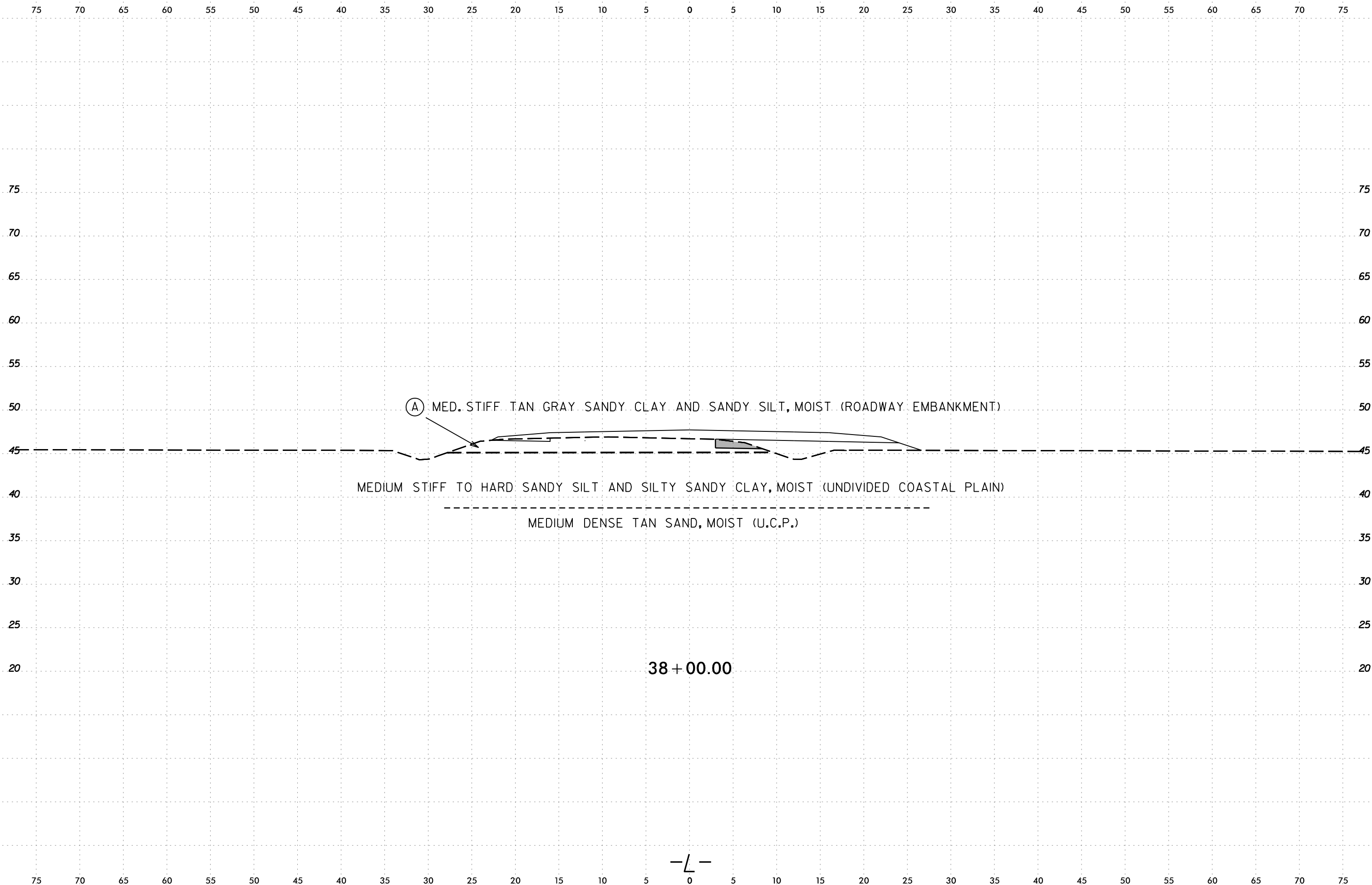
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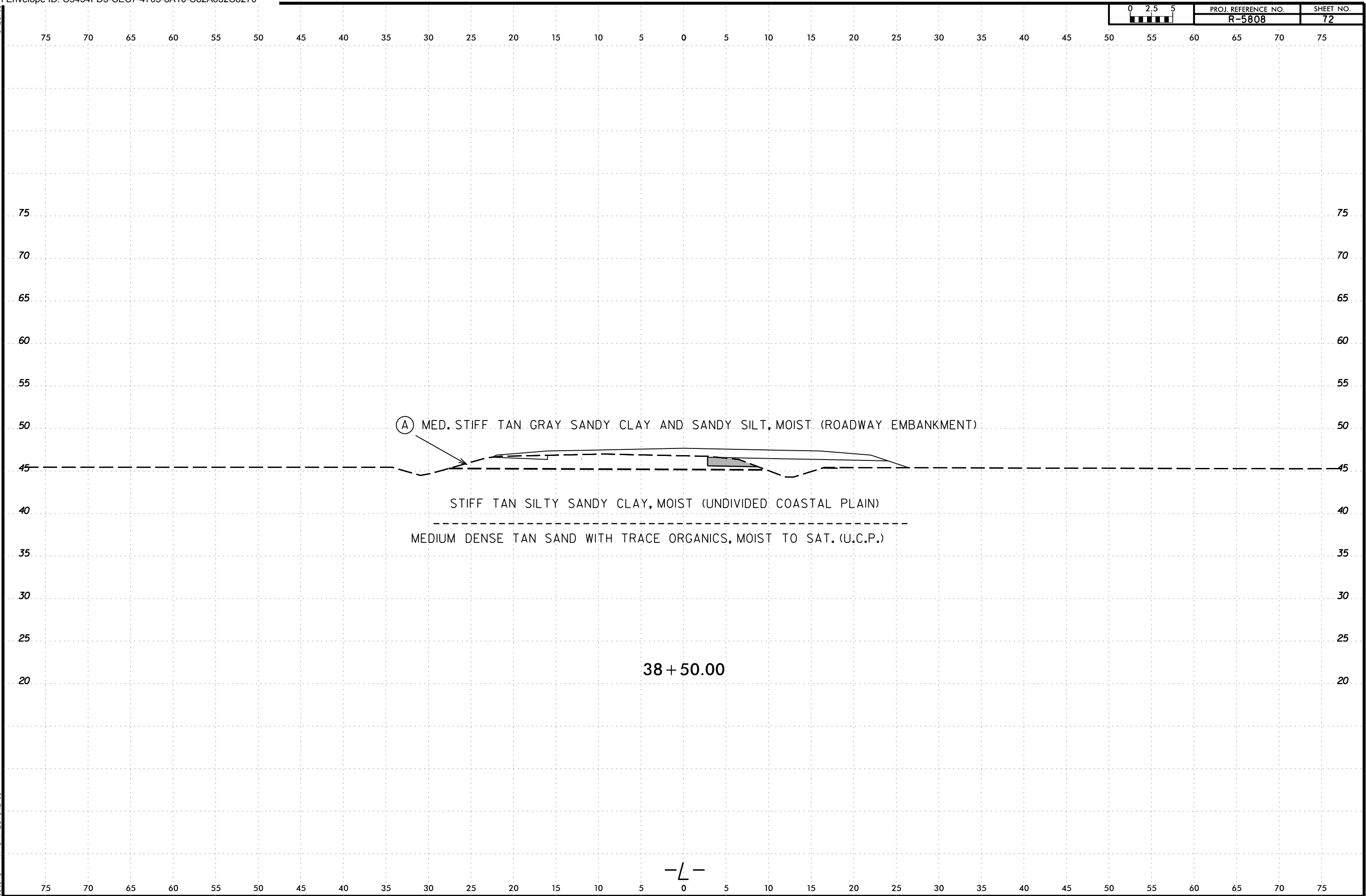
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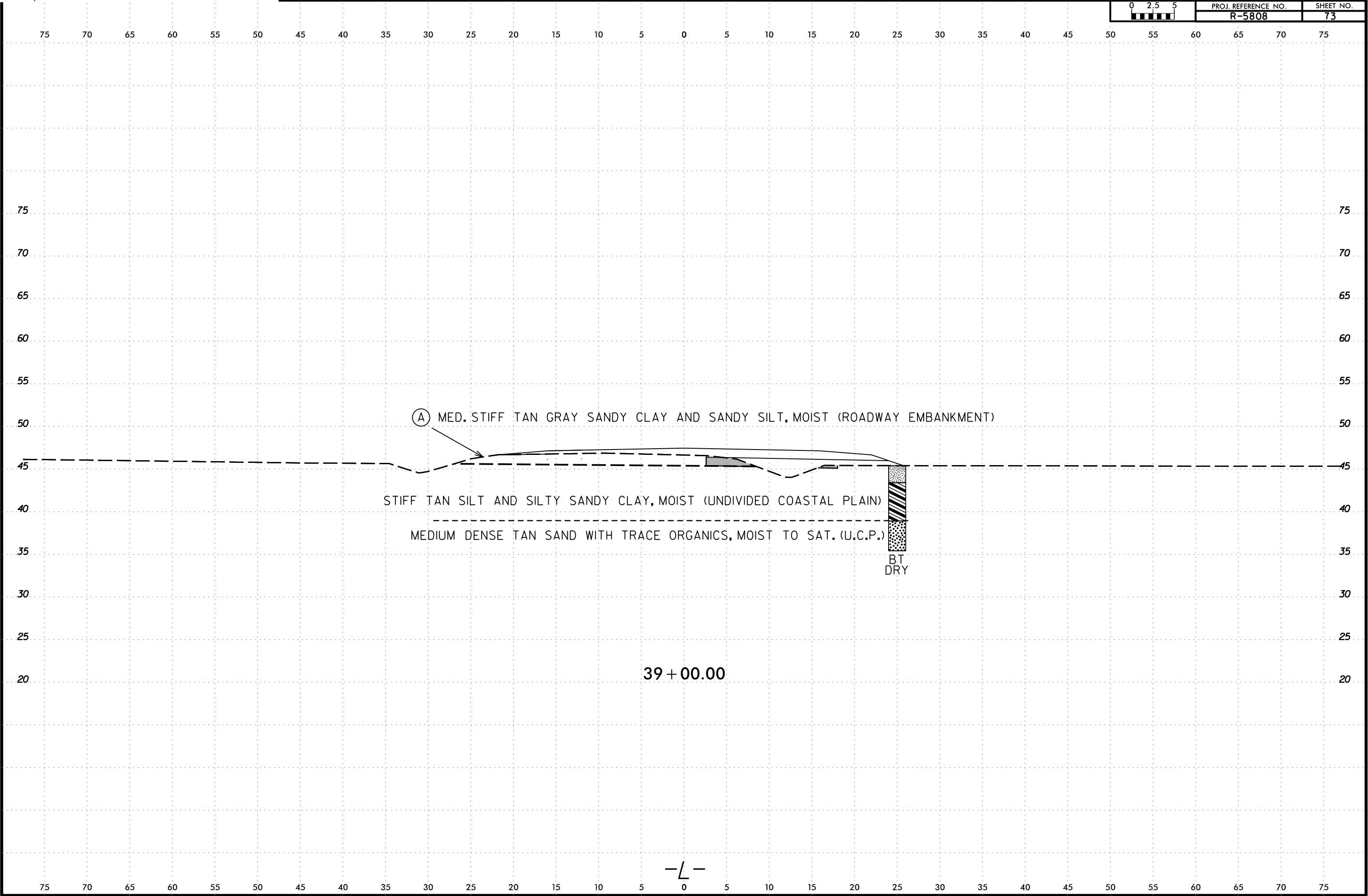




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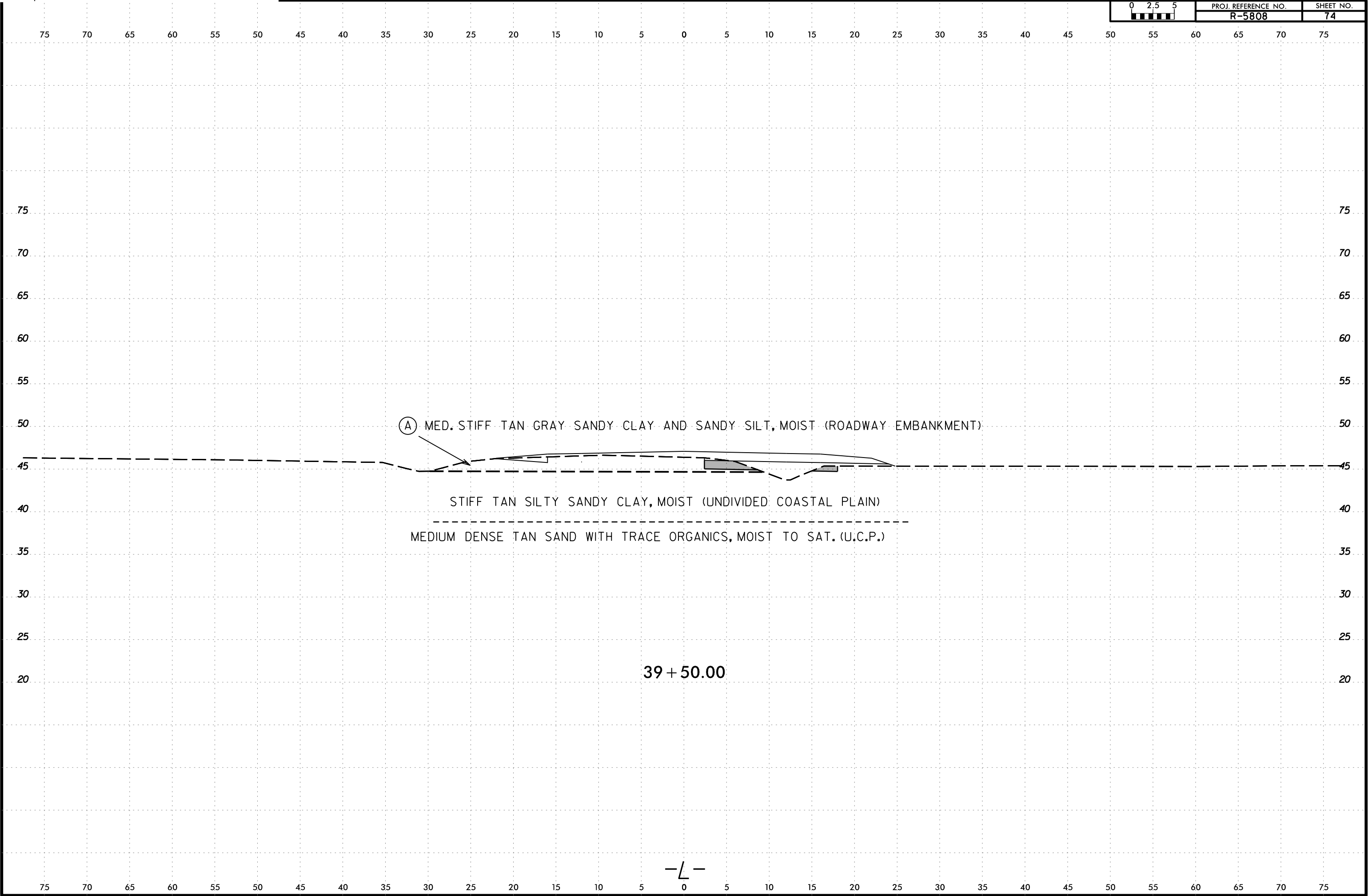
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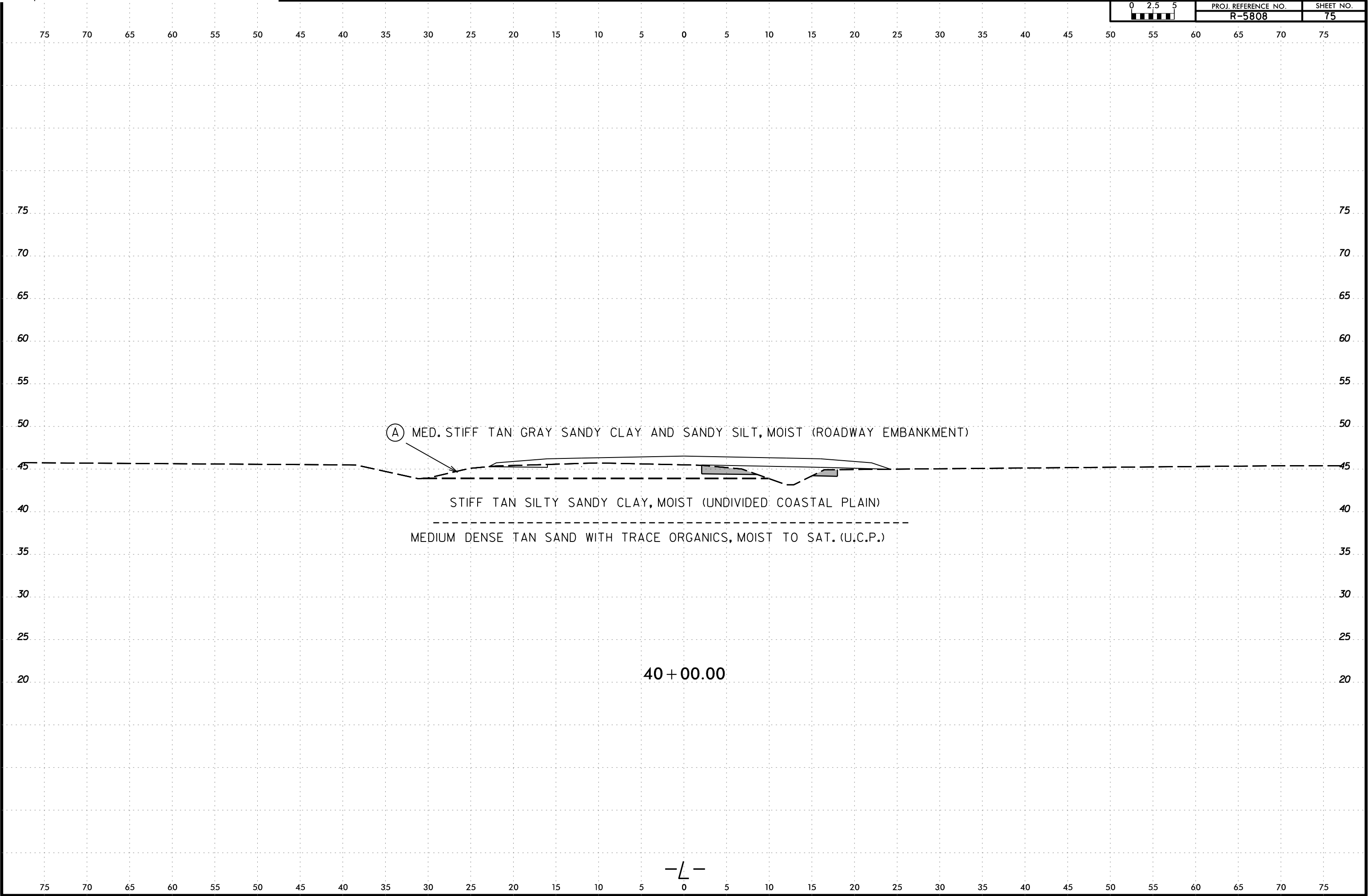
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lstone AT CAT-LSTONE-18

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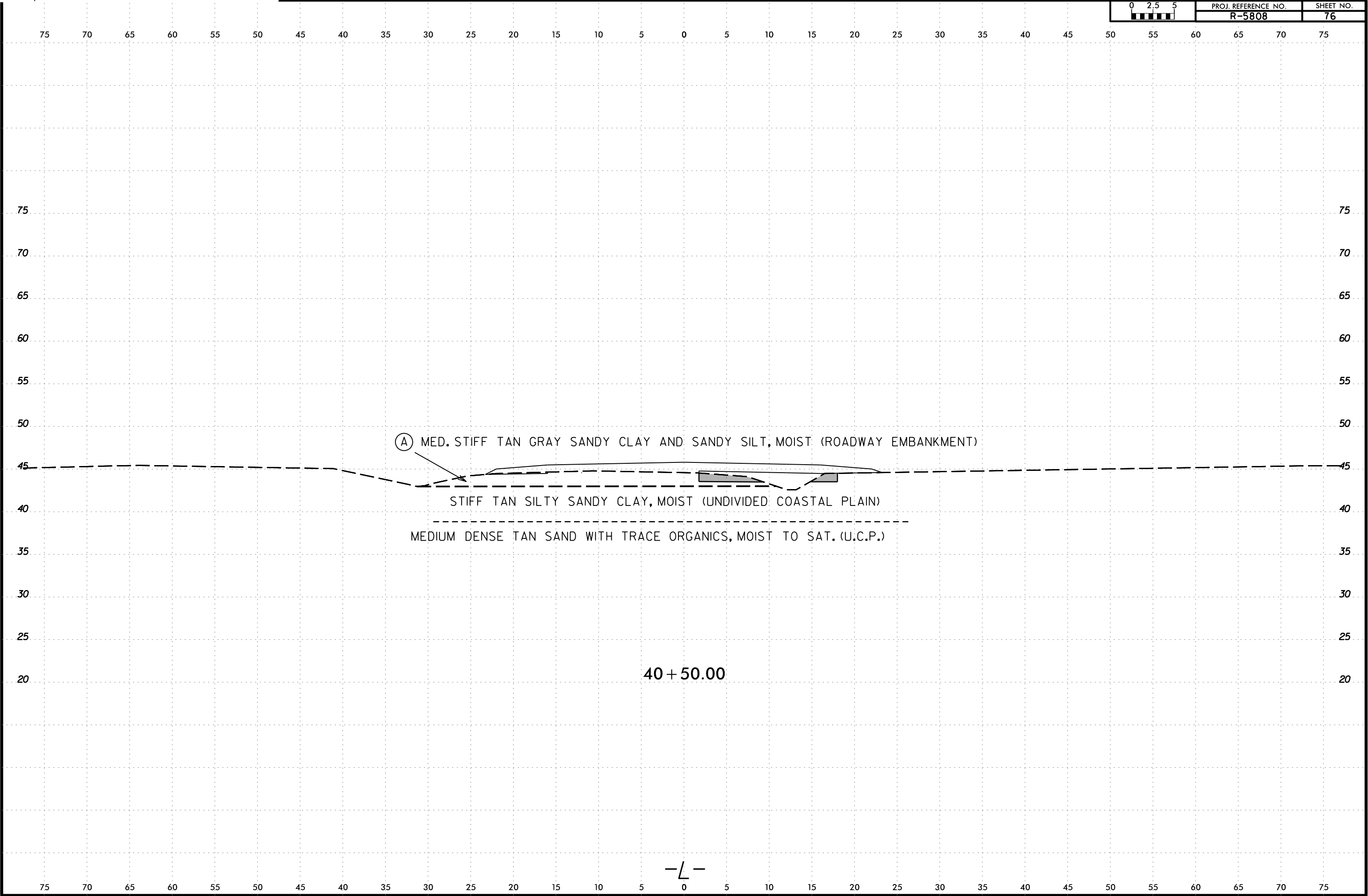
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AT CAT-1 STONE-18

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stone AT CAT-1 STONE-18

SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-053	2 ft RT	41+00	1.5 - 3.0	A-6(9)	37	21	20.9	23.7	14.8	40.5	99.1	97	56	-	-
SS-054	2 ft RT	41+00	3.0 - 5.0	A-7-6(20)	44	26	5.3	20.7	28.7	45.3	99.8	99	80	-	-
SS-055	2 ft RT	41+00	5.0 - 7.0	A-2-4(0)	25	6	4.4	67.7	5.6	22.3	100	99	32	-	-

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

(A)

SS-053
SS-054
SS-055

STIFF TAN SILTY SANDY CLAY, MOIST

(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS,

MOIST TO SAT. (U.C.P.)

BT
DRY

BEGIN UNSUITABLE UNCLASSIFIED EXCAVATION STA. 40+75 +/-

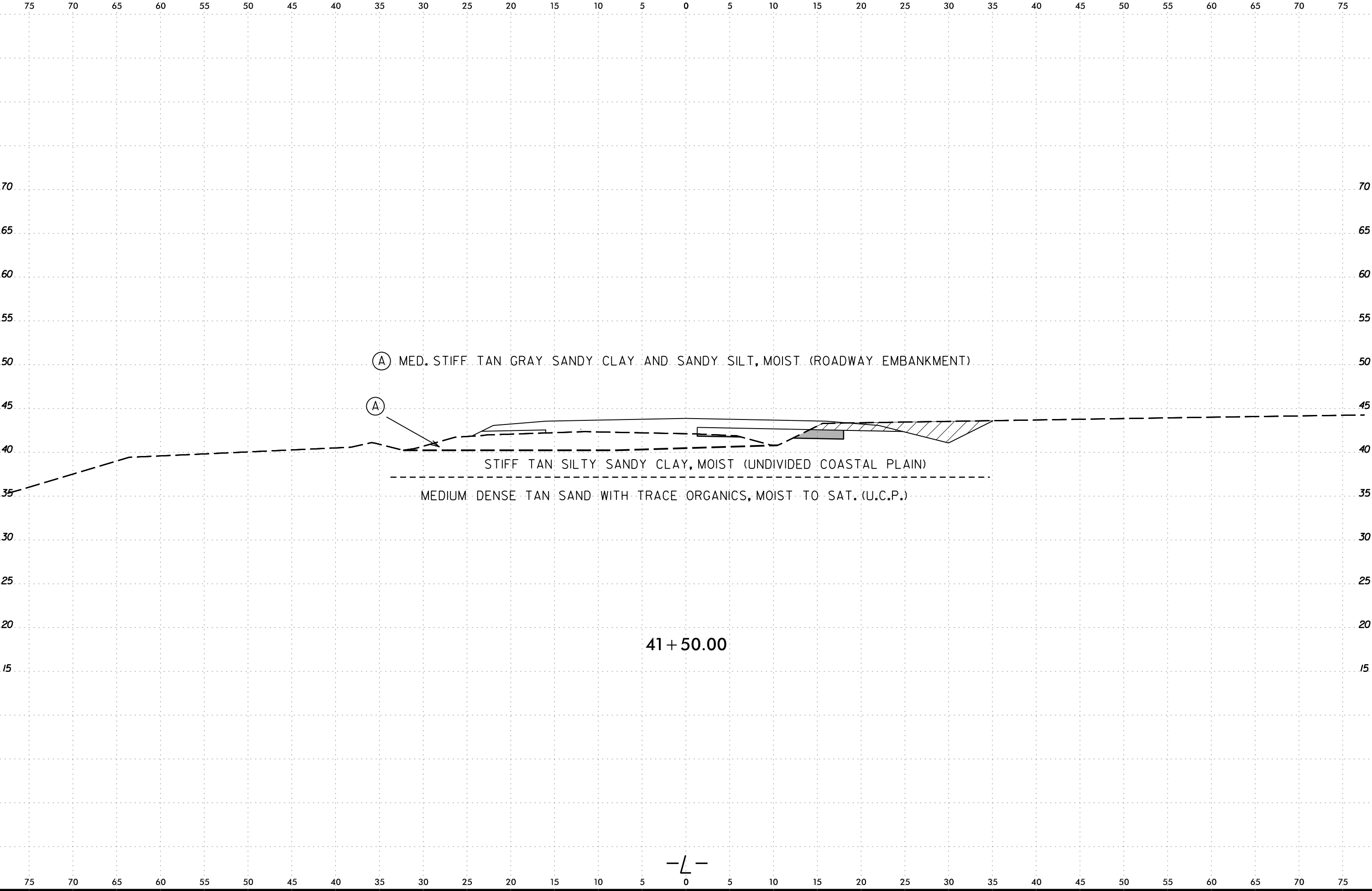
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lstone
AT CAT-1-1-ONE-18

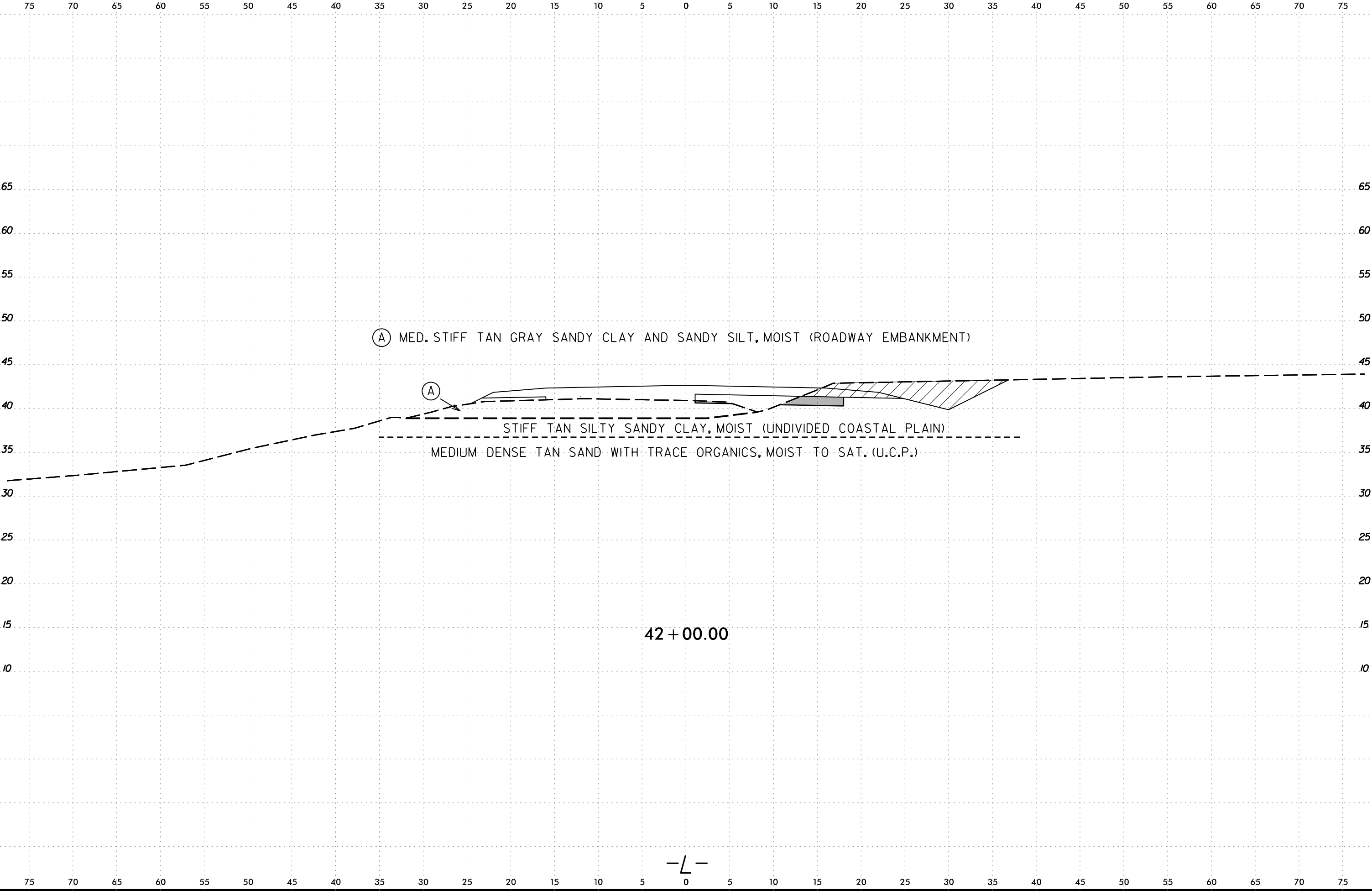
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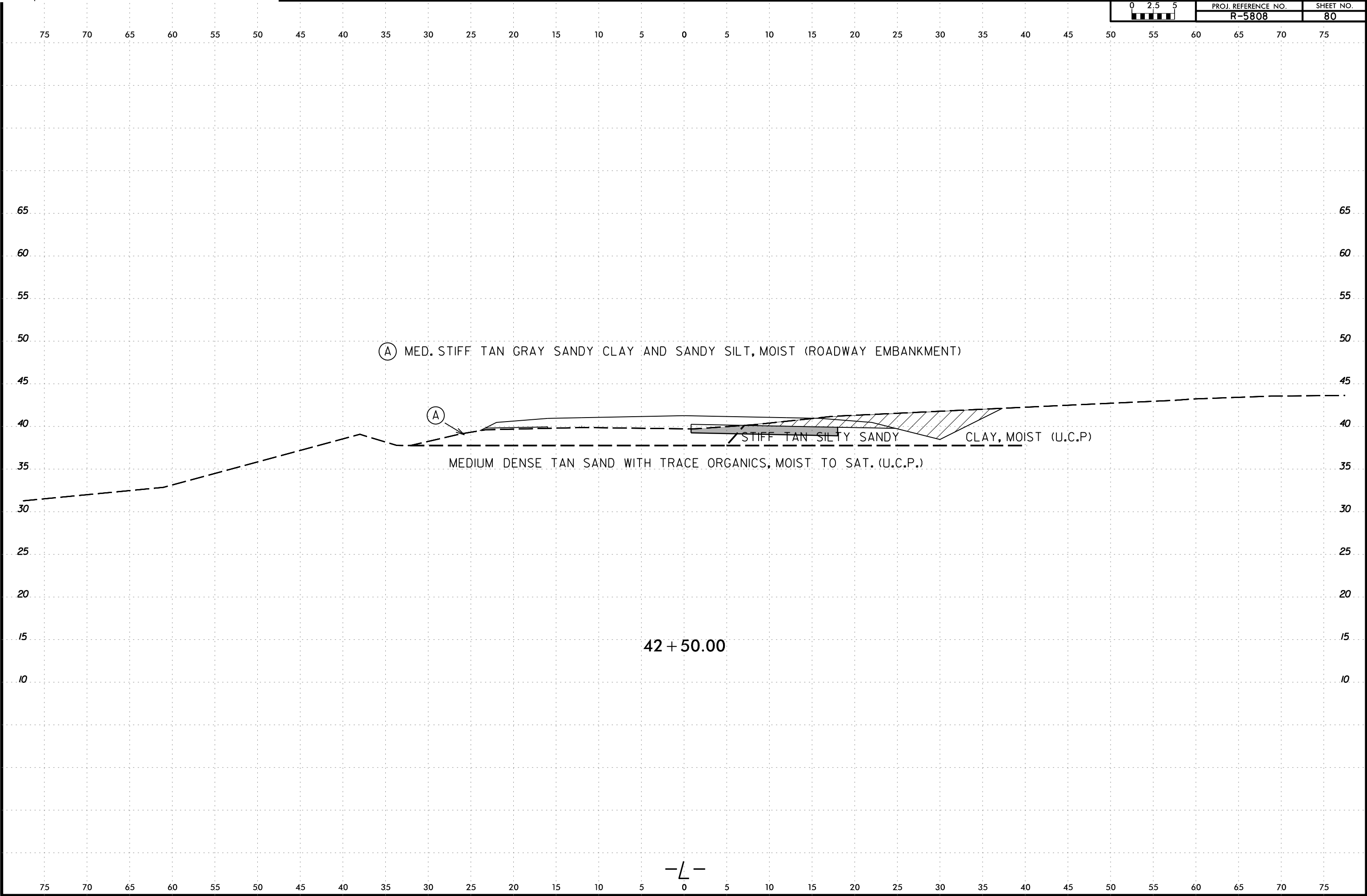
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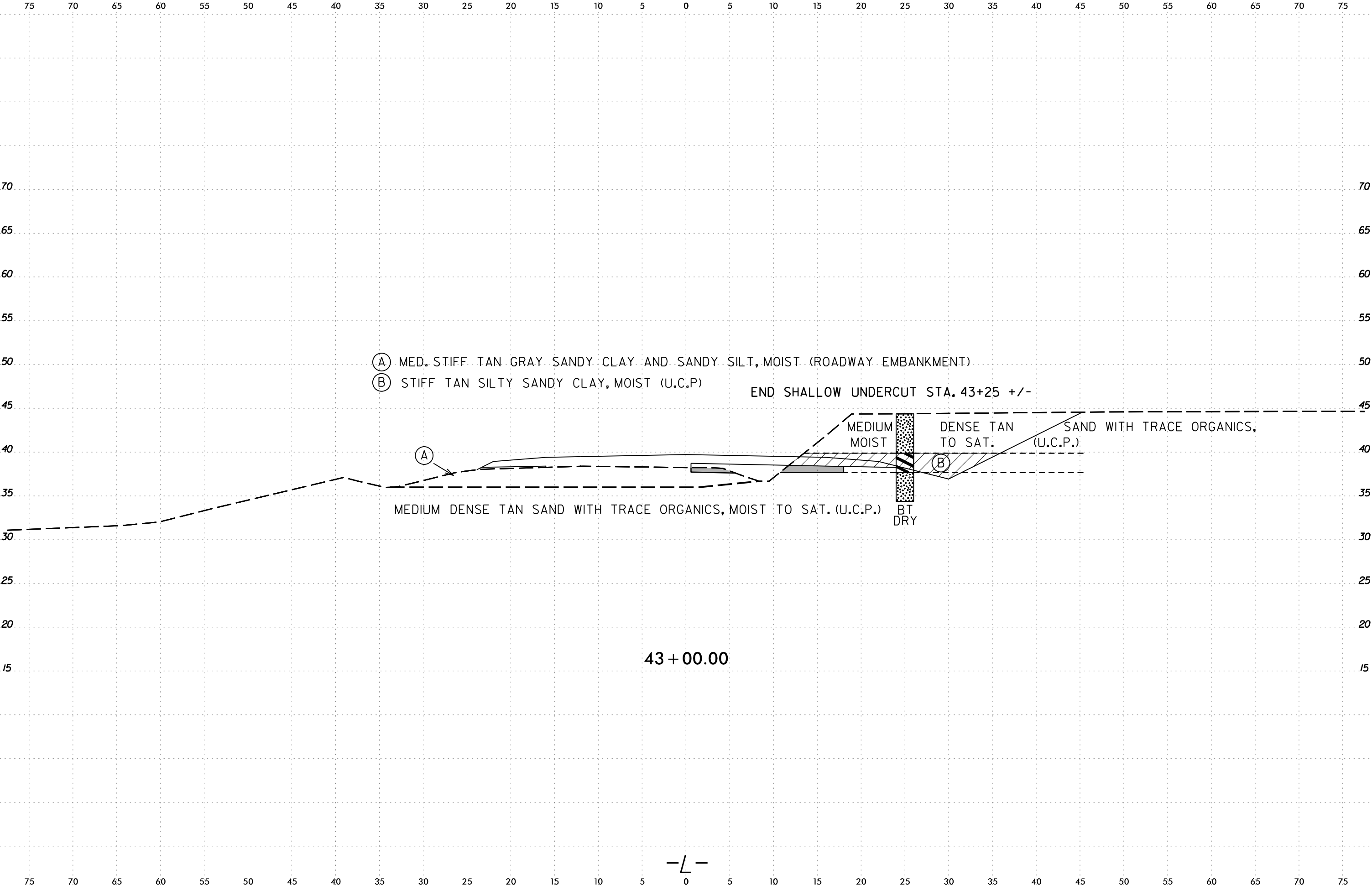
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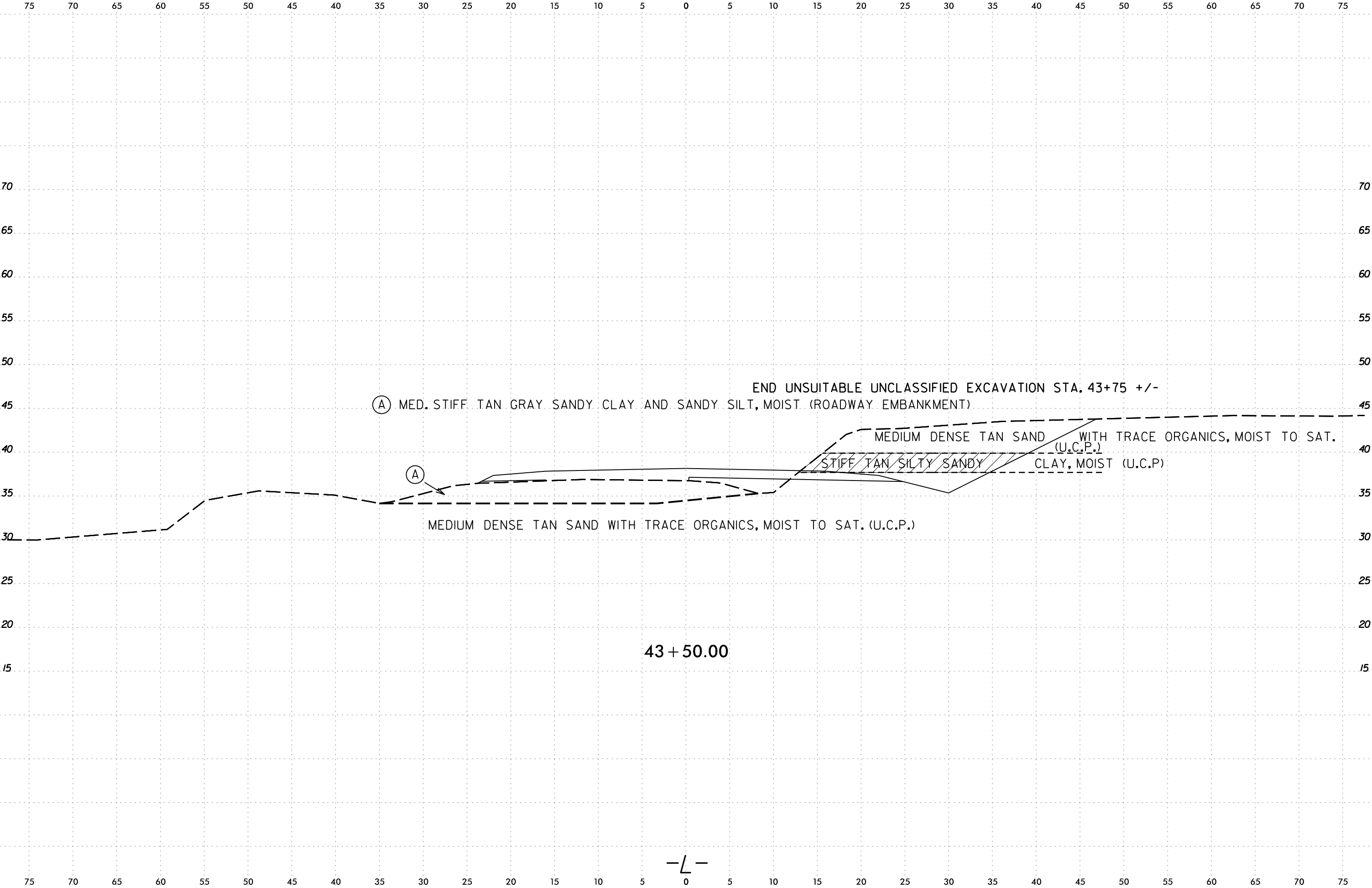
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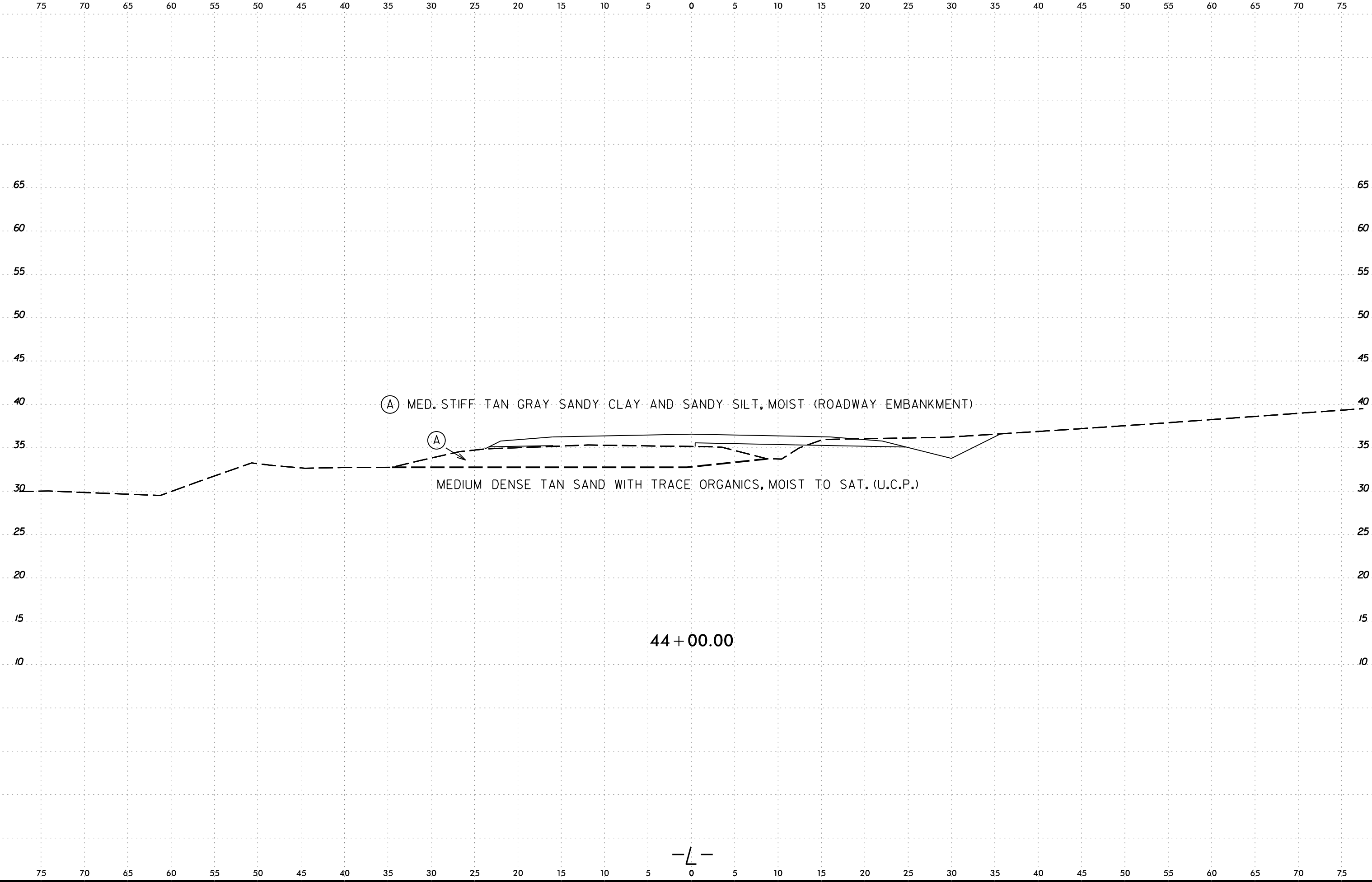
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AT CAT-1-STONE-18

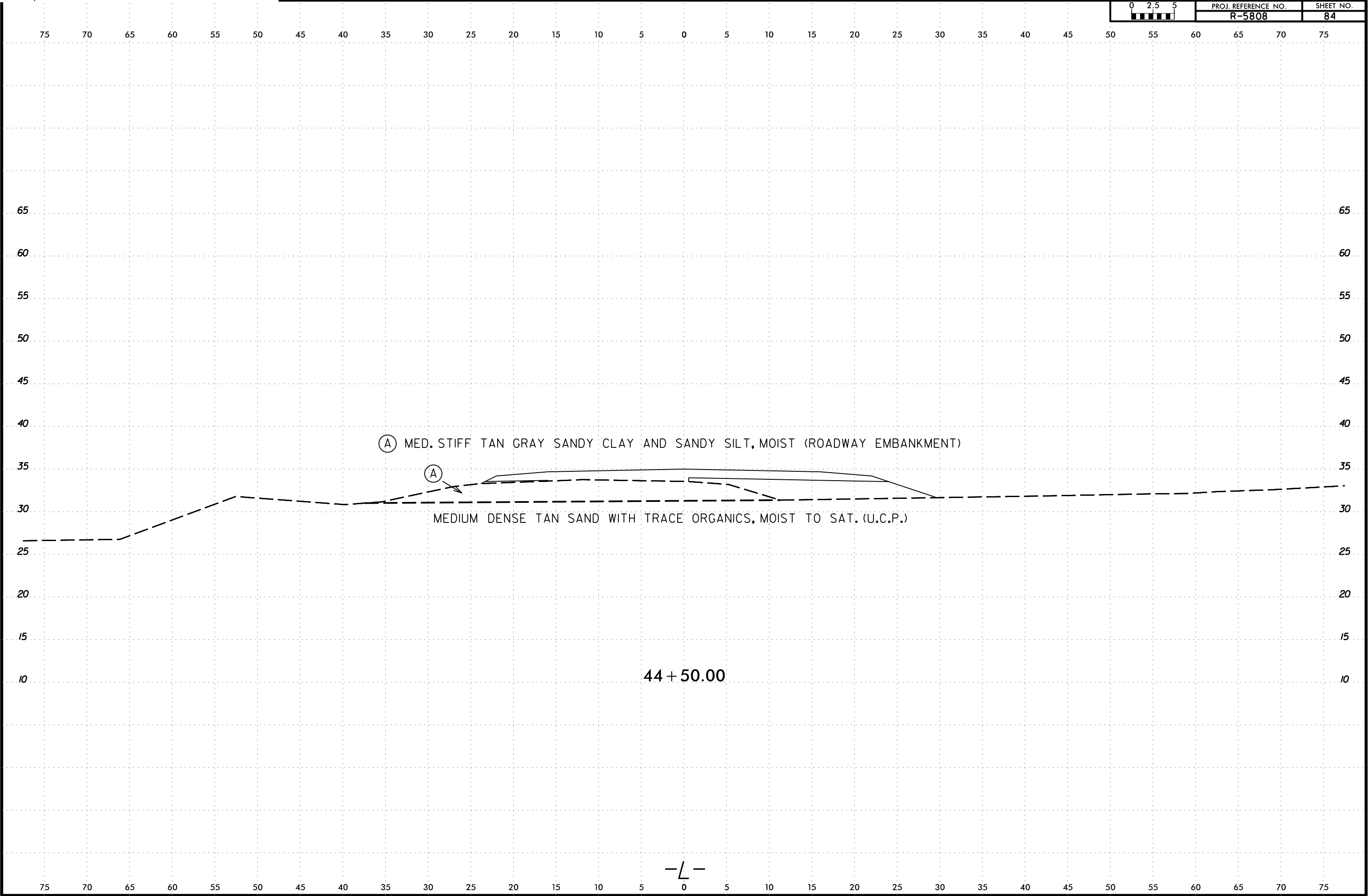
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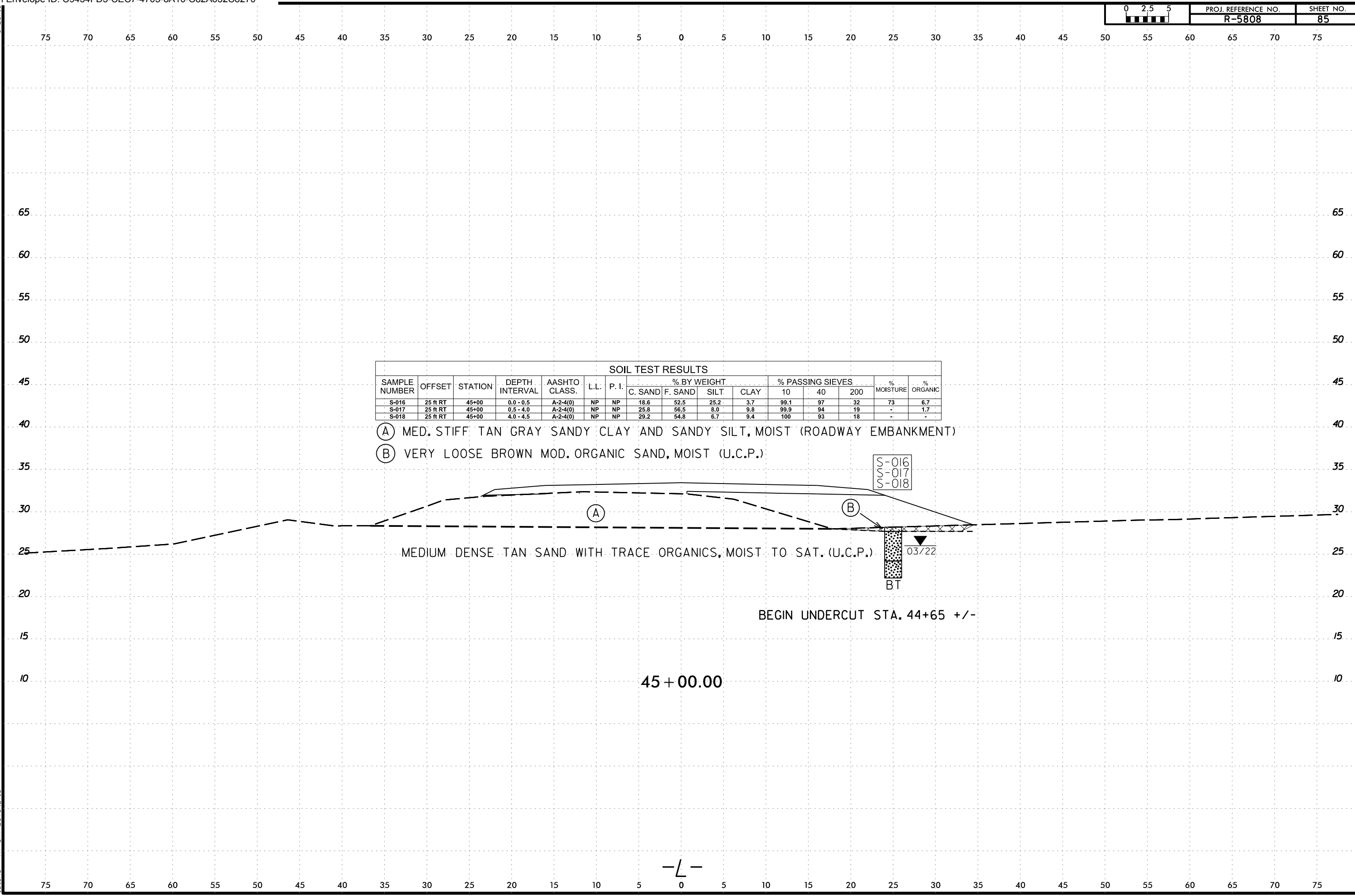


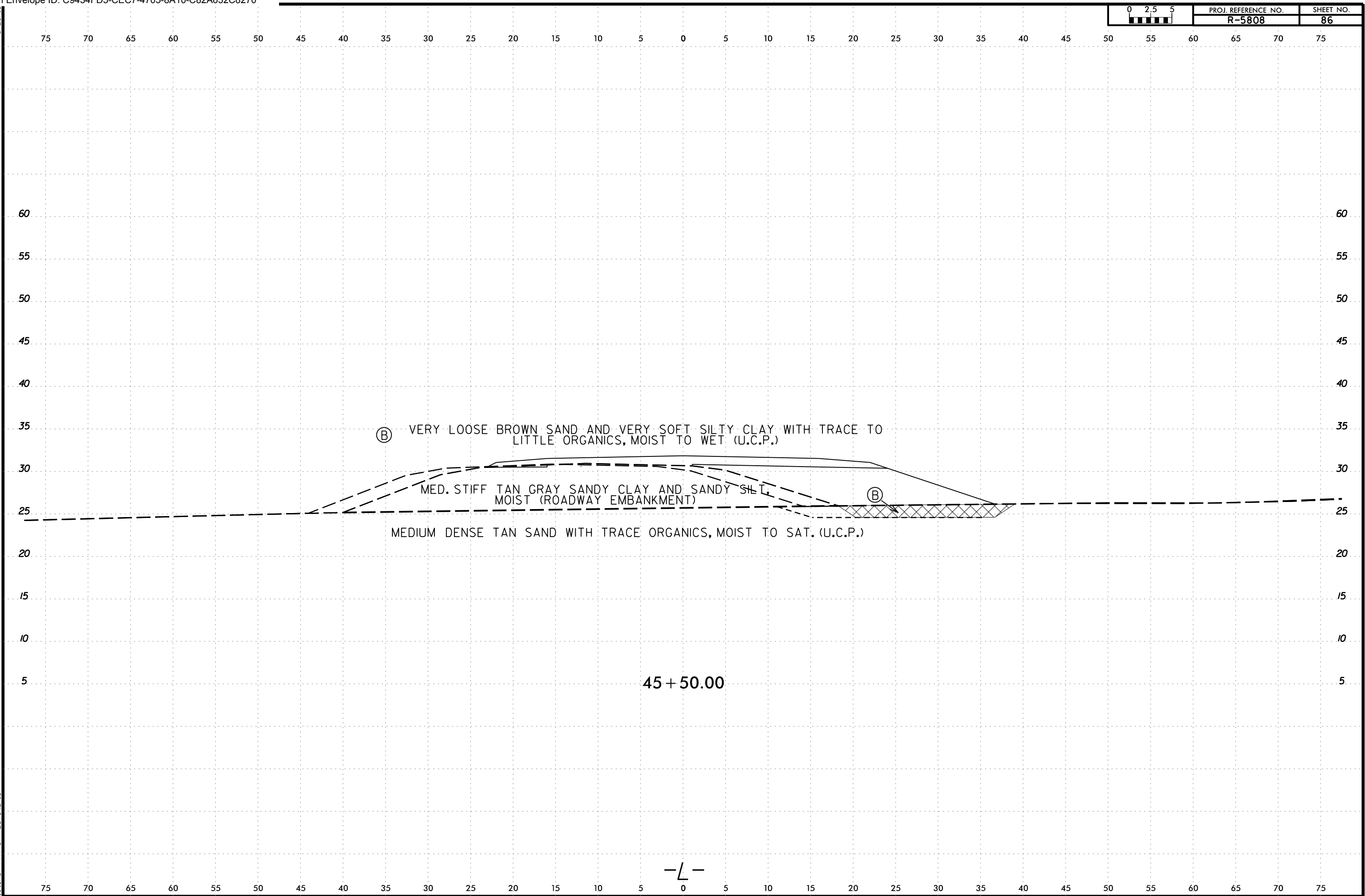
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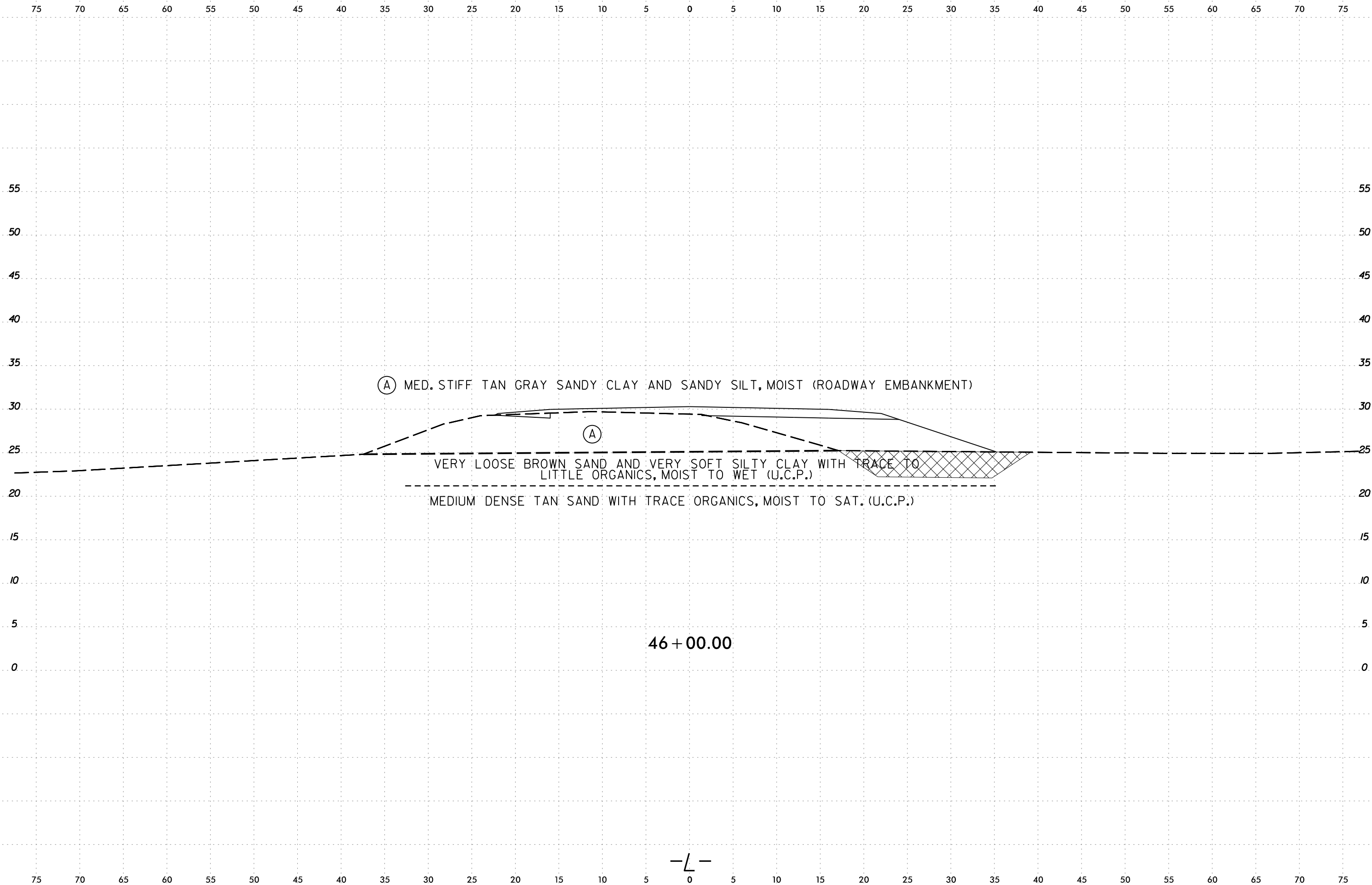
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AT CAT-ISTONE-18

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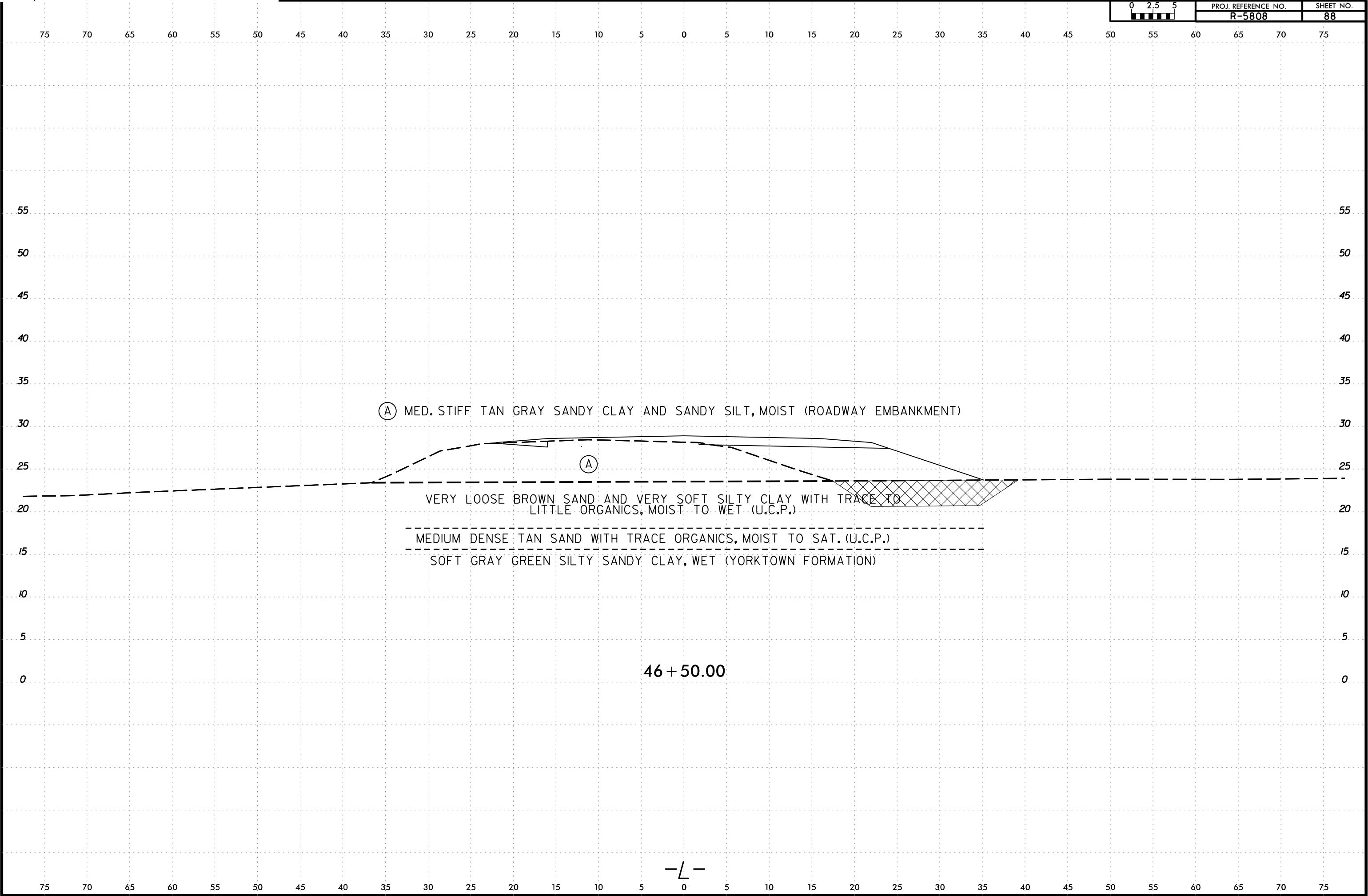




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AT CAT-1 STONE-18

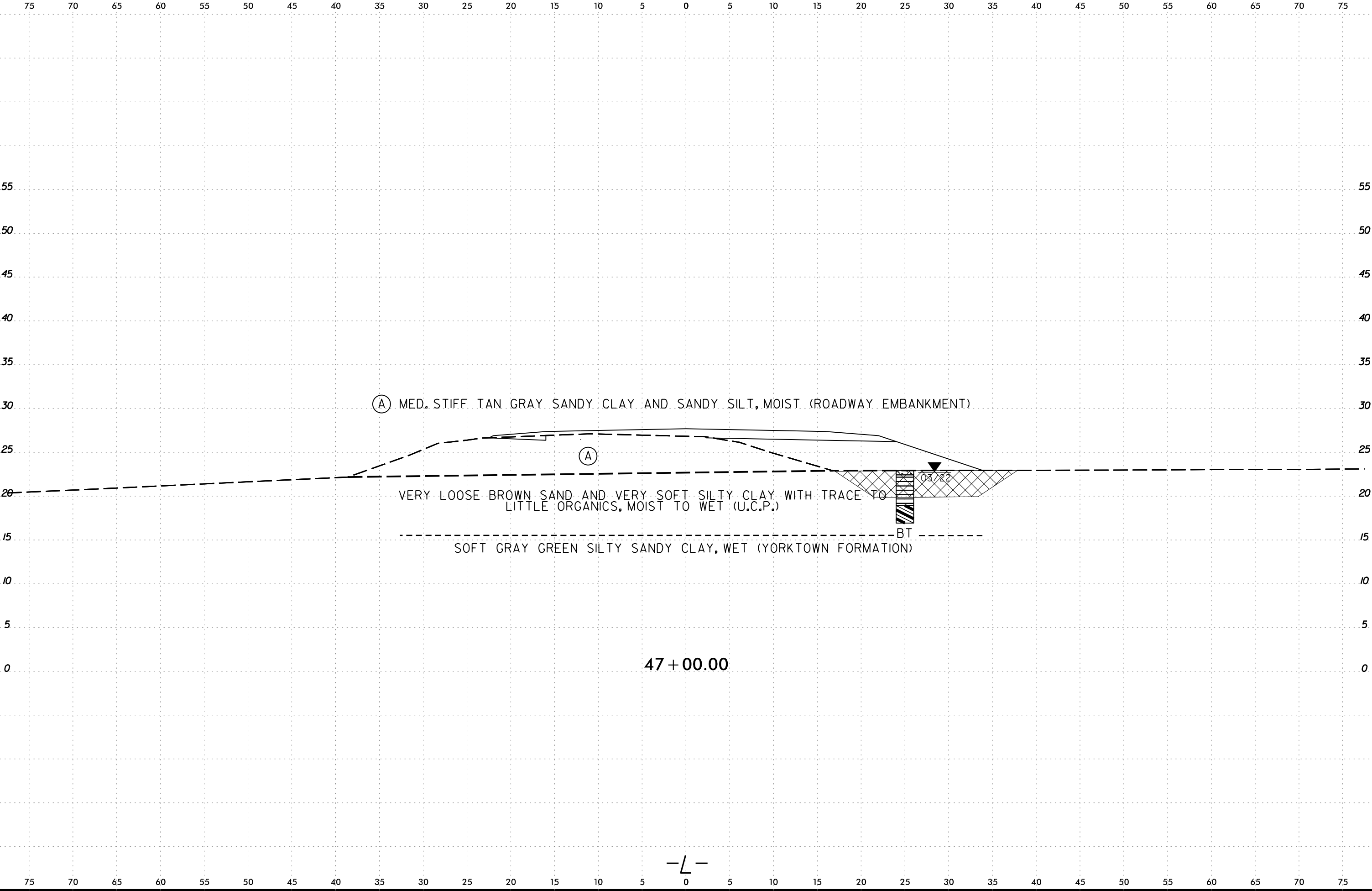
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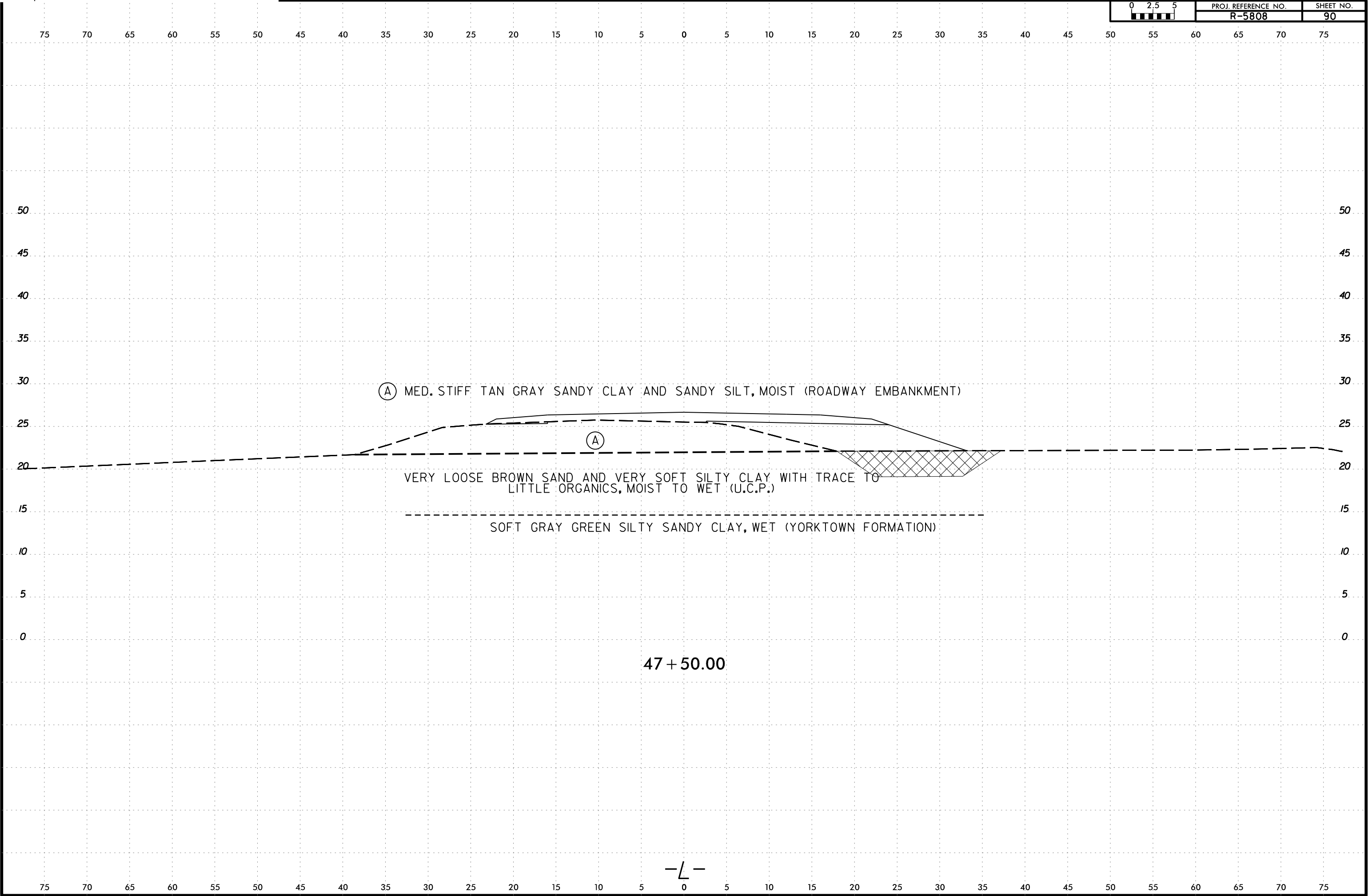
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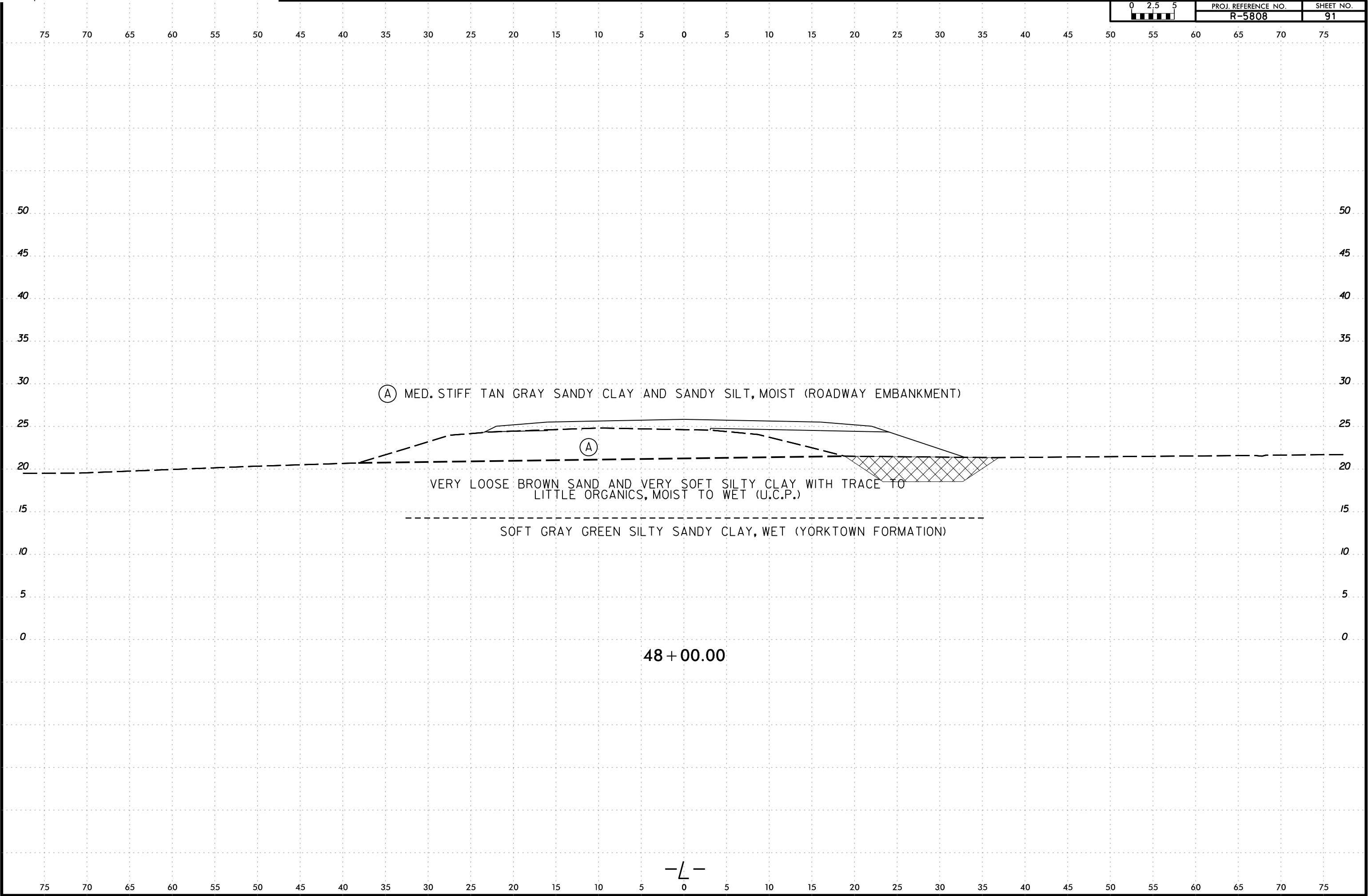


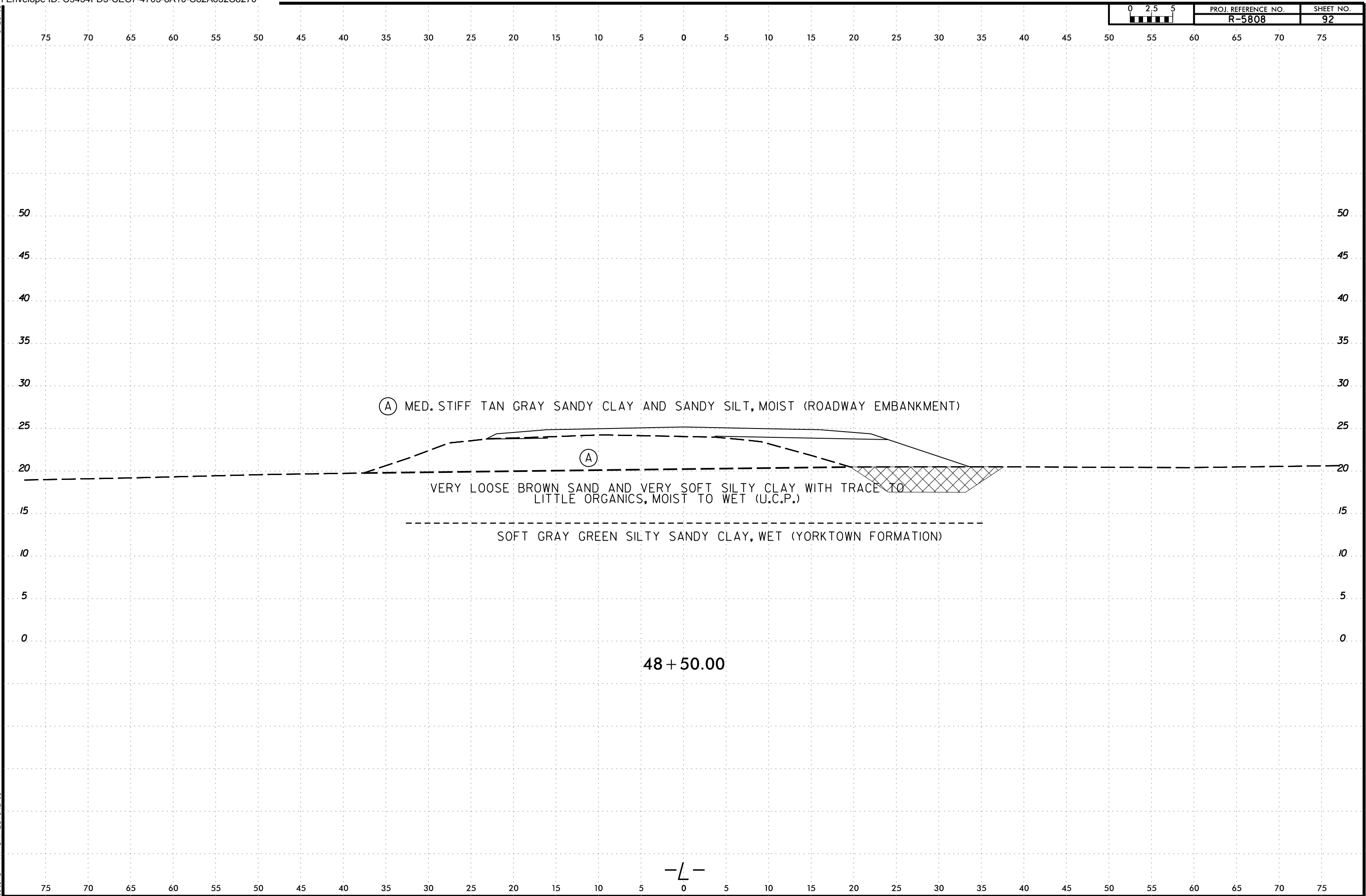
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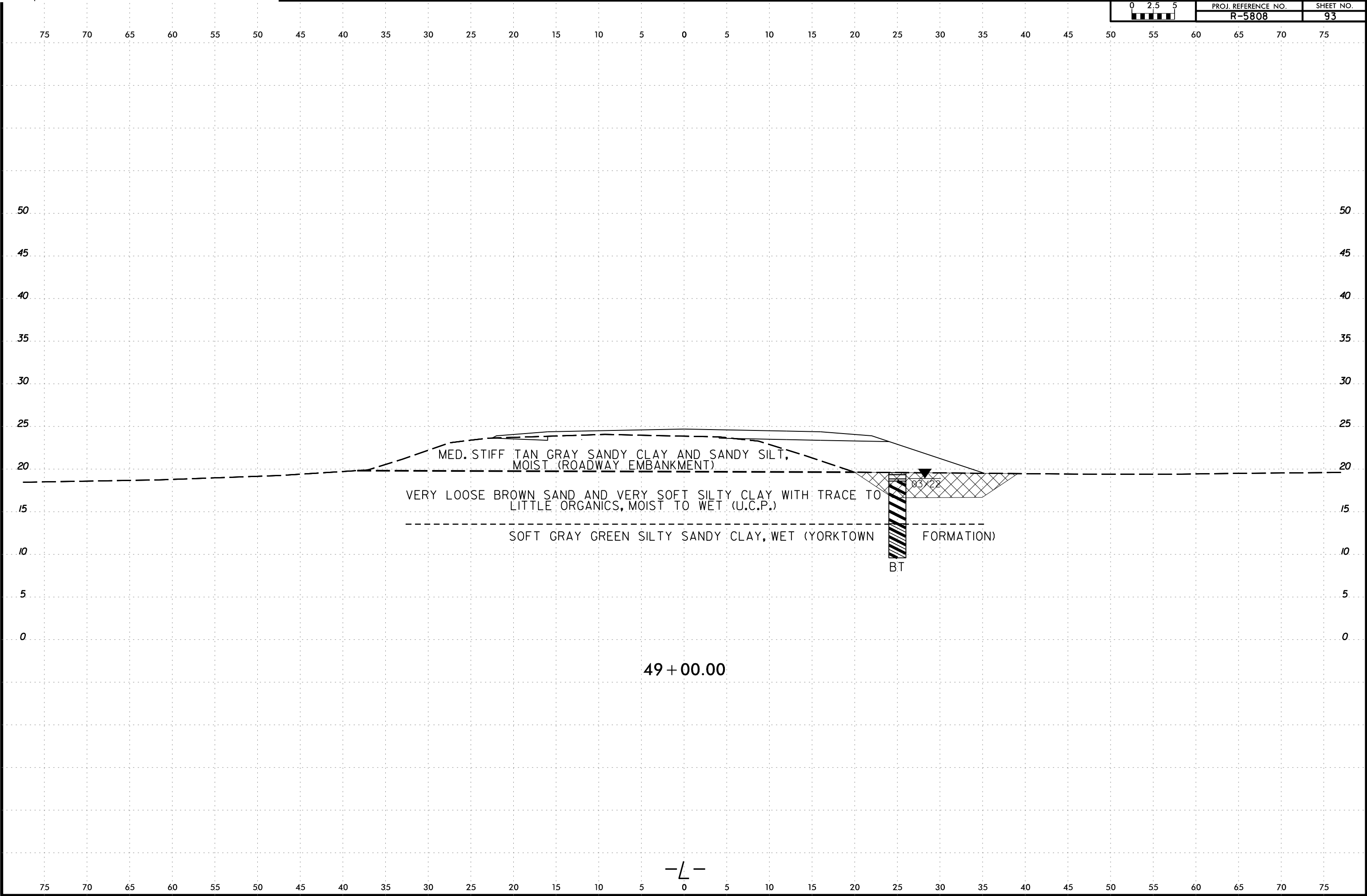




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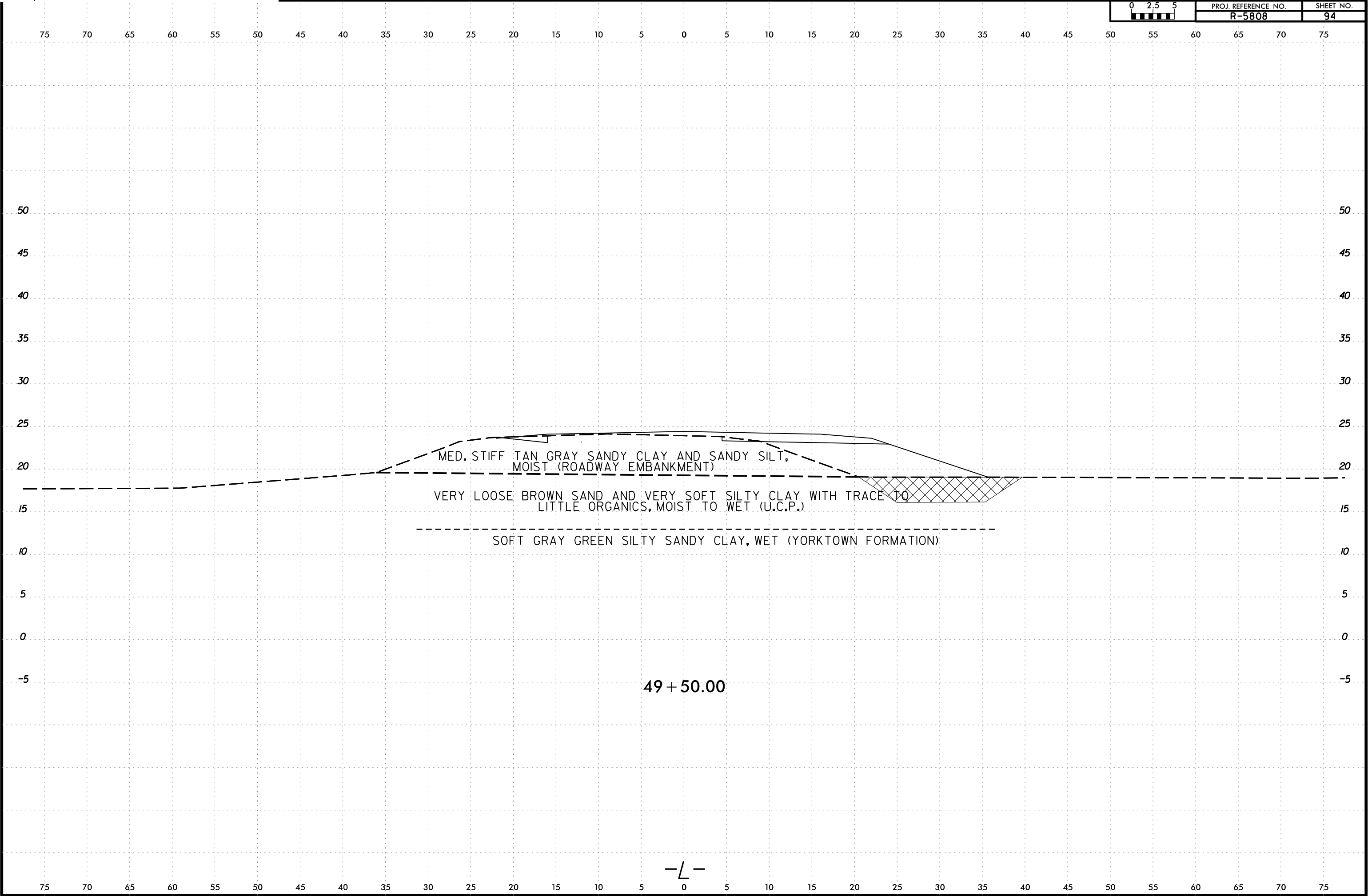
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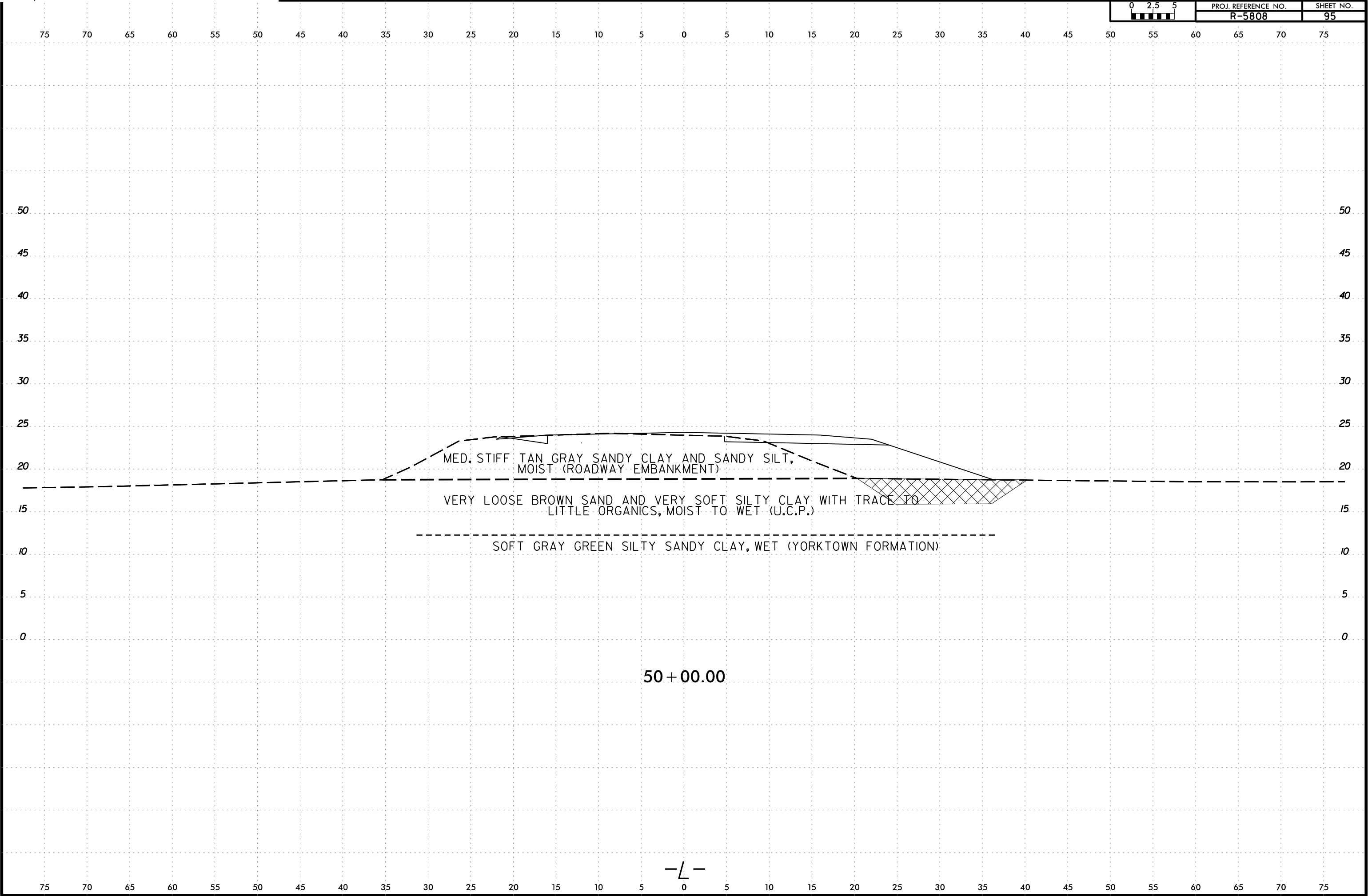
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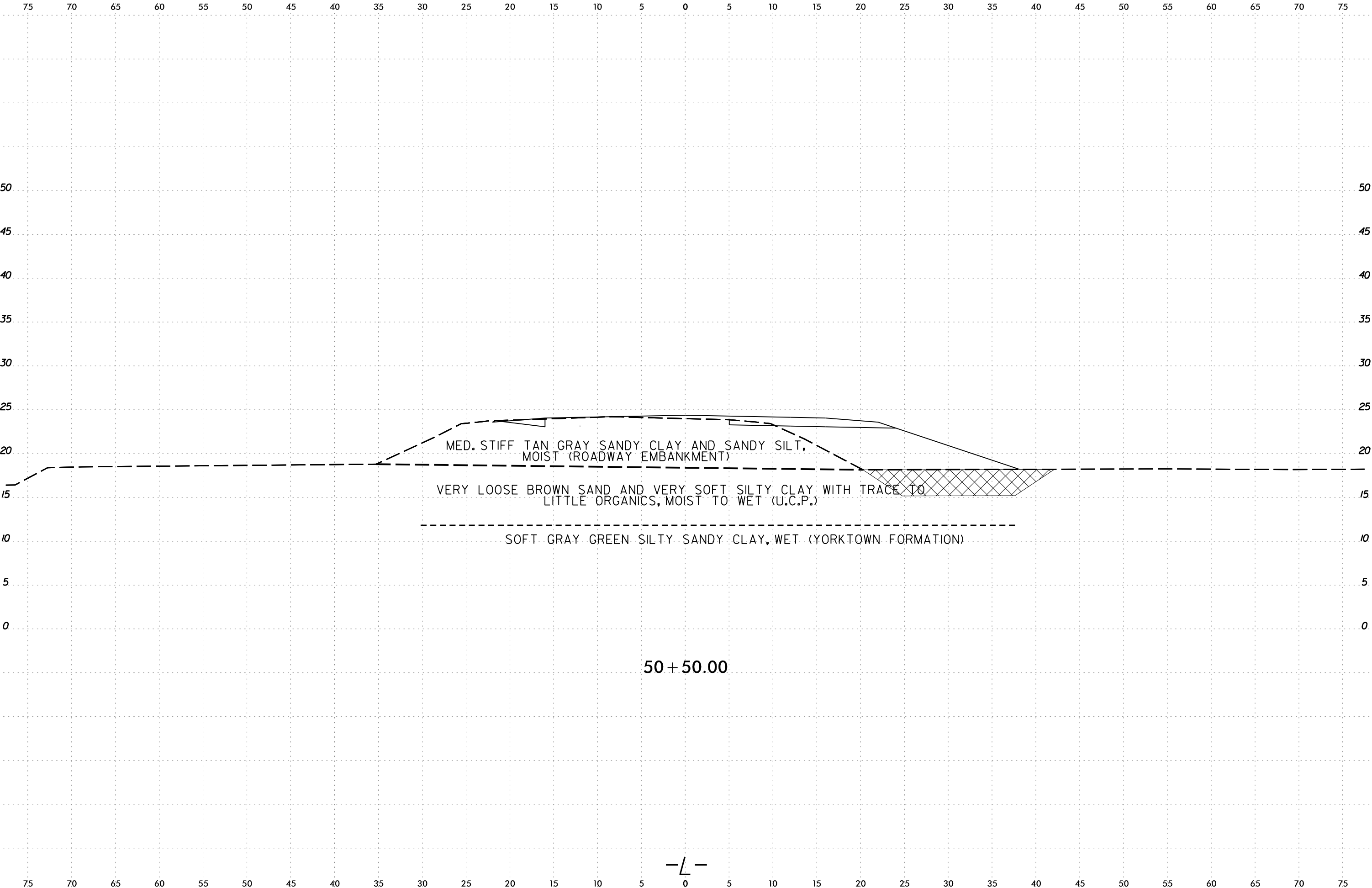


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AT CAT-1 STONE-18

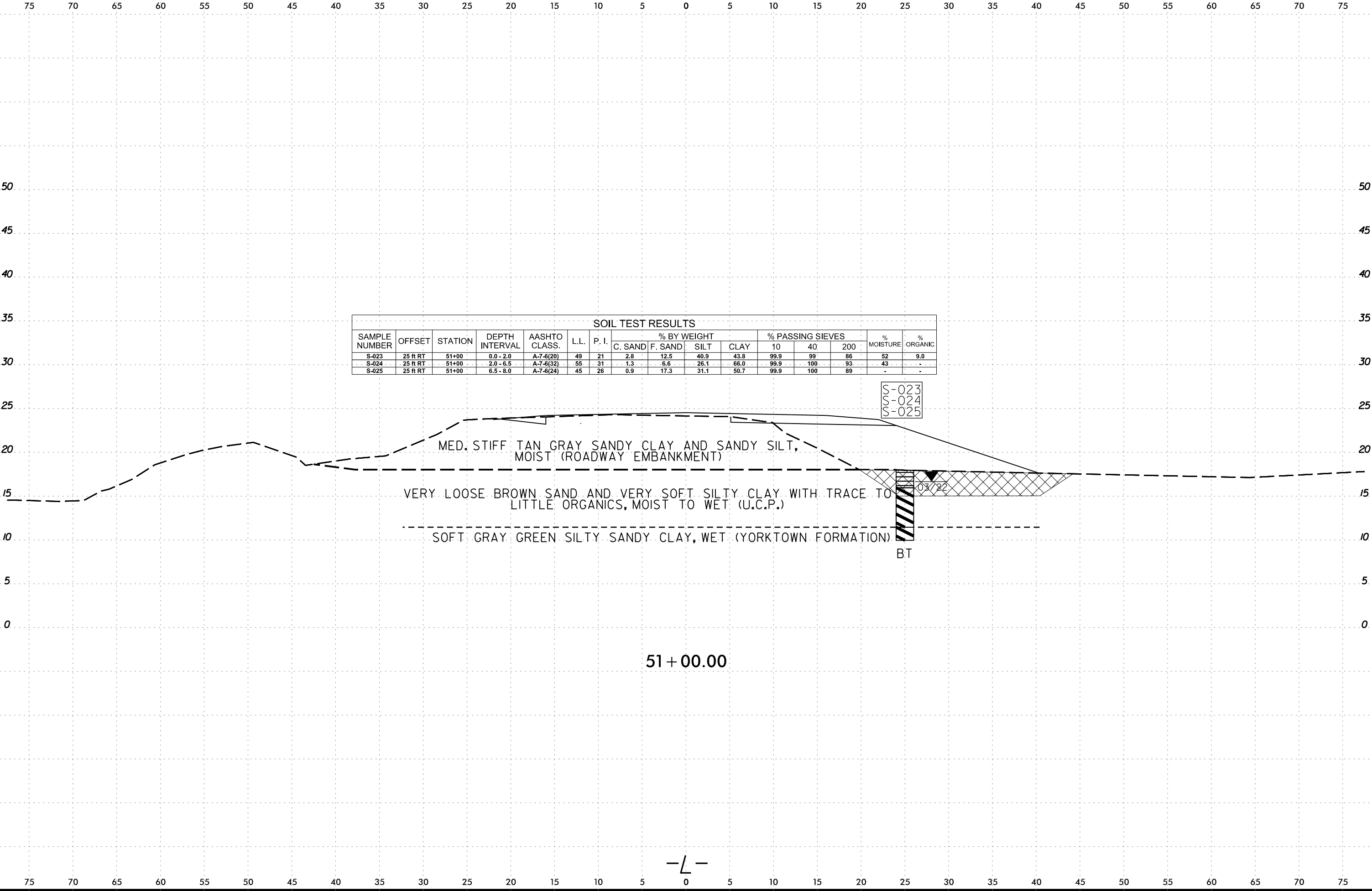
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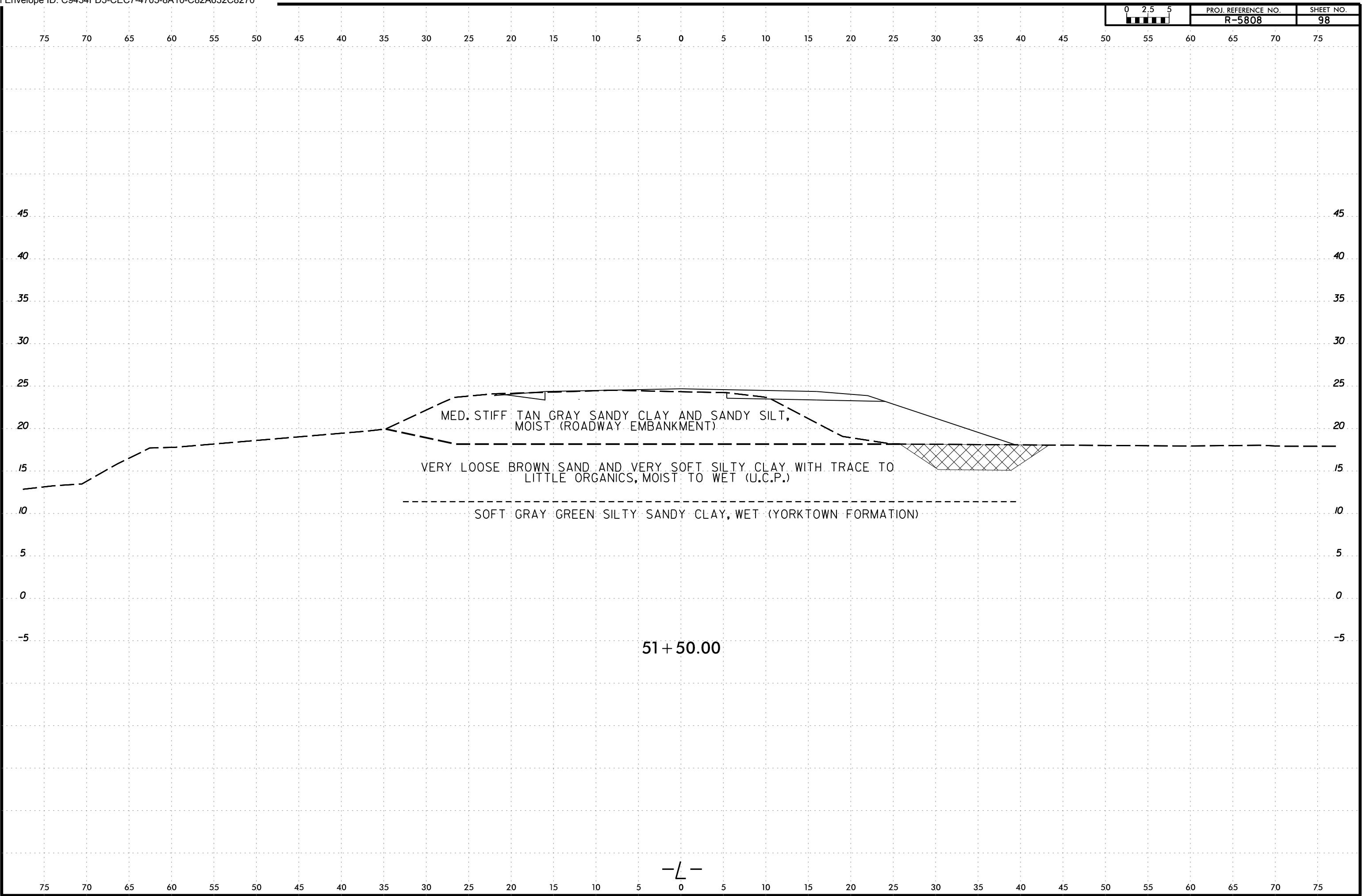


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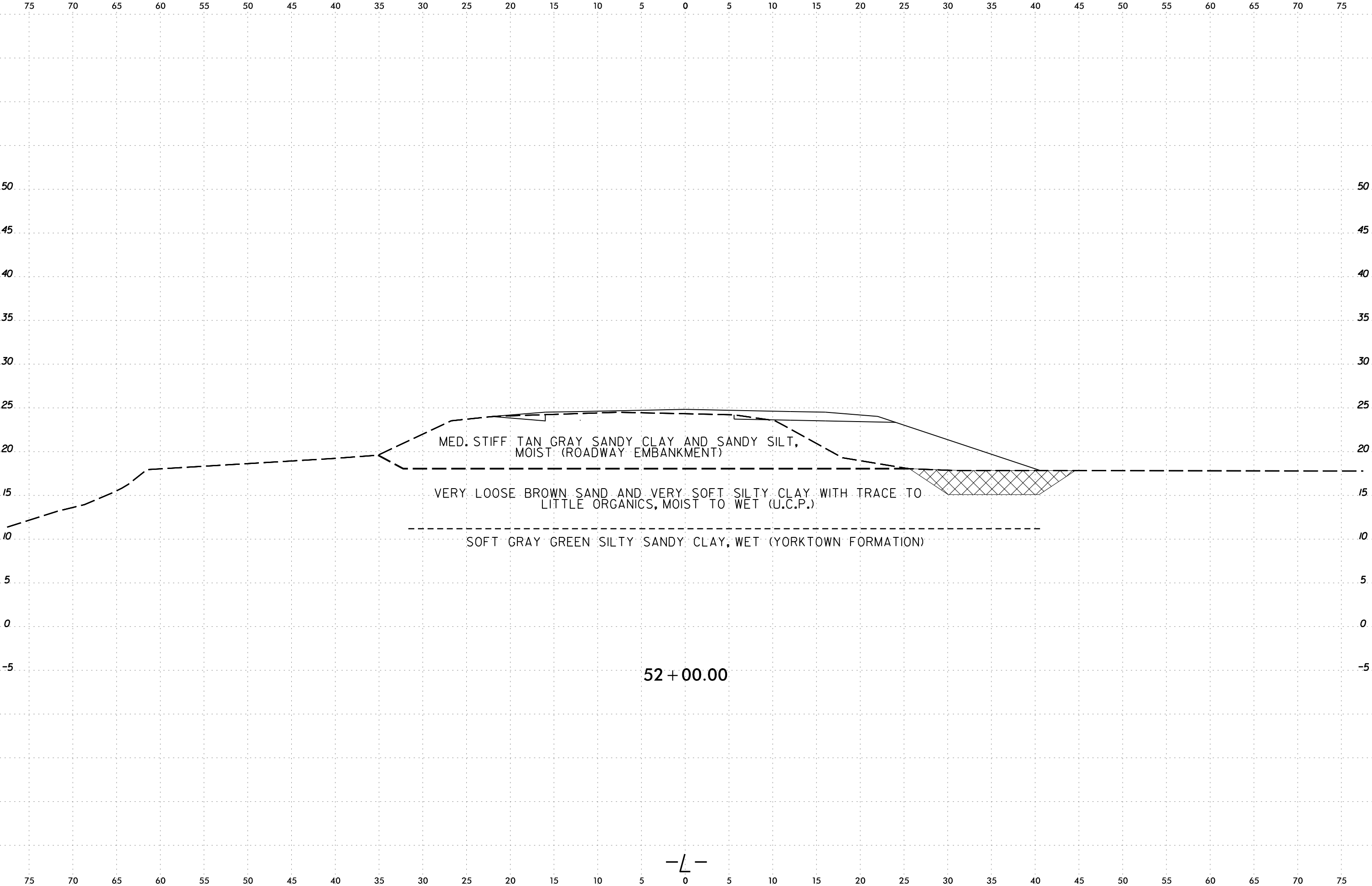




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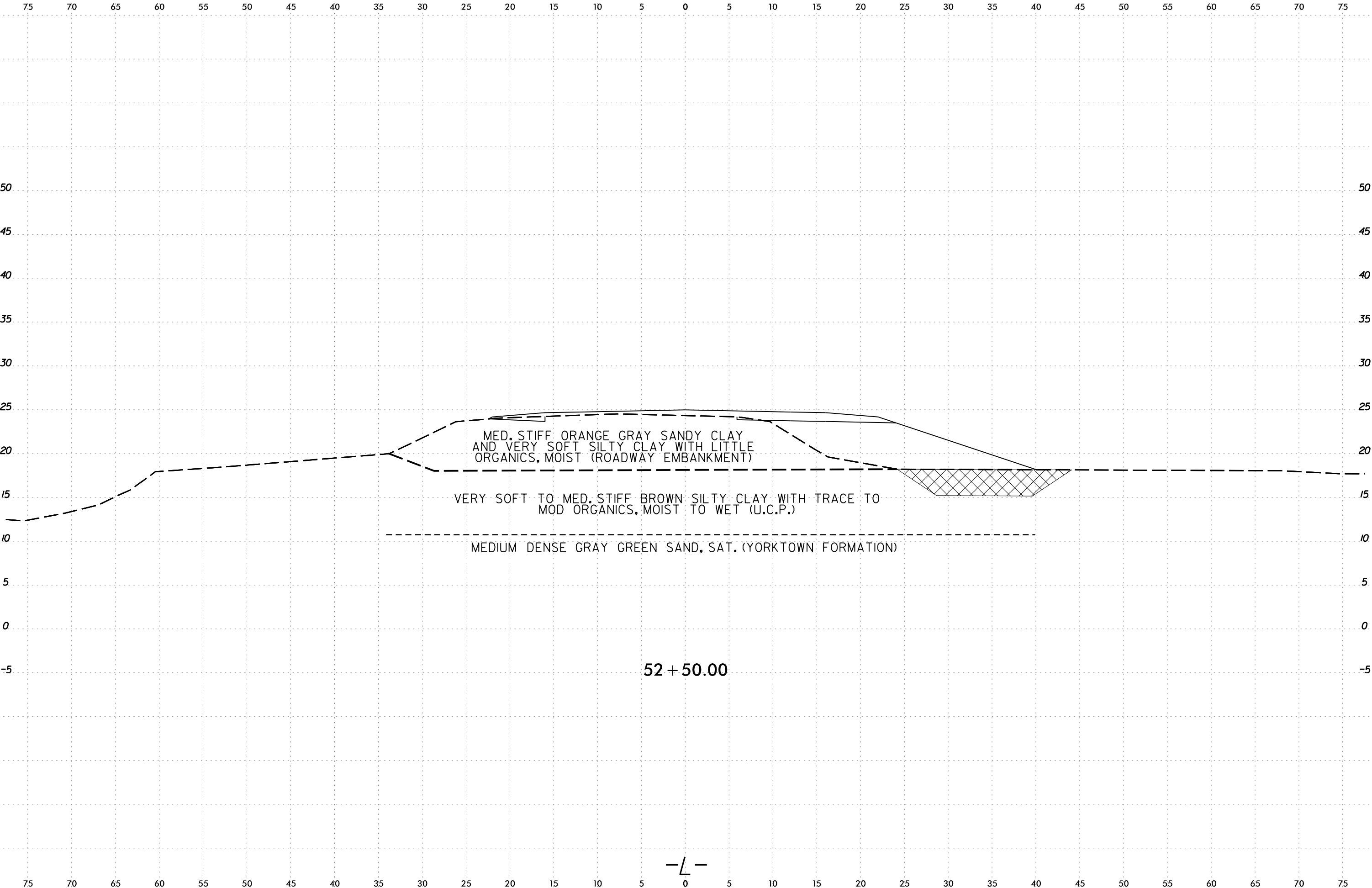
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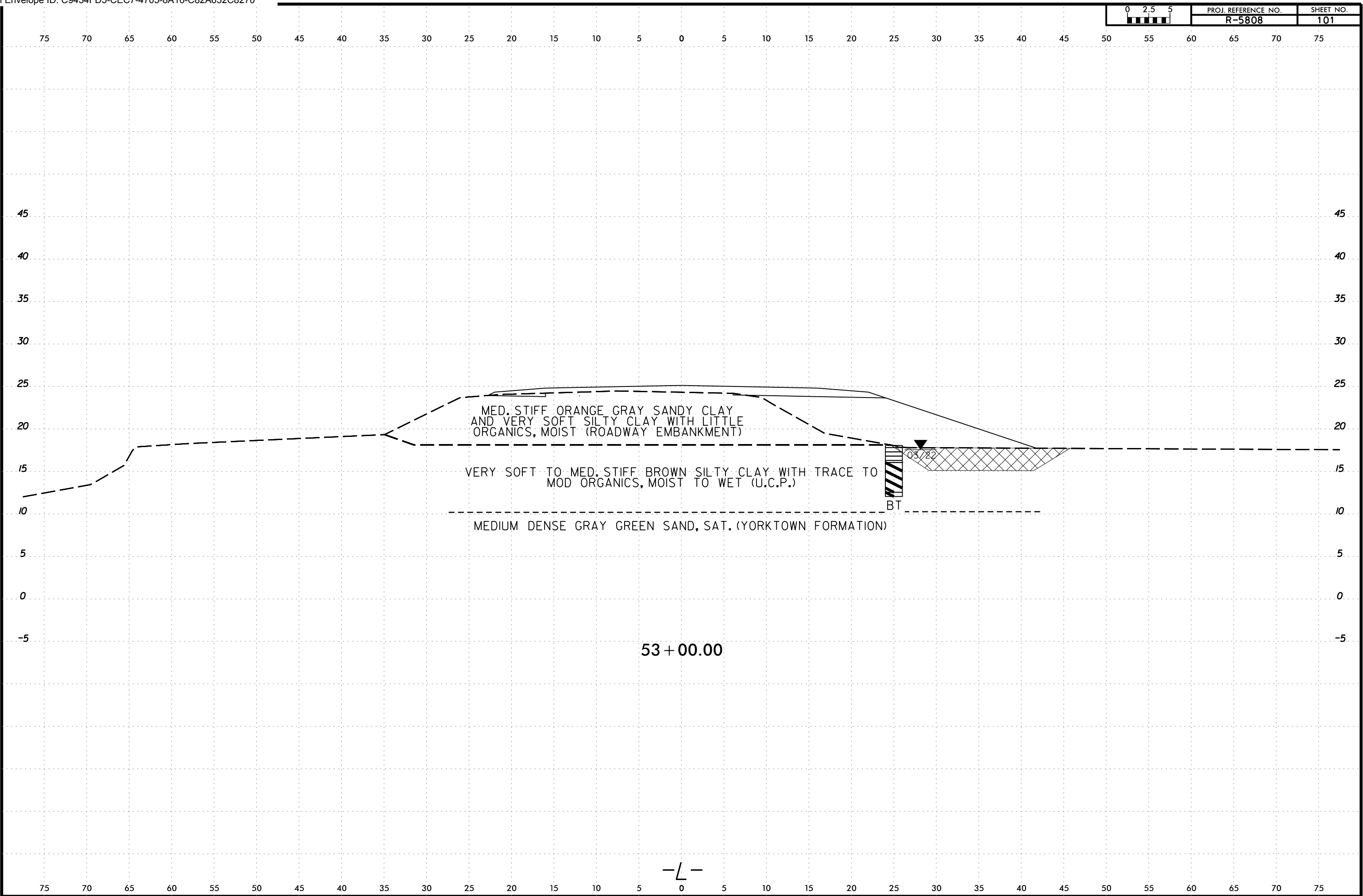
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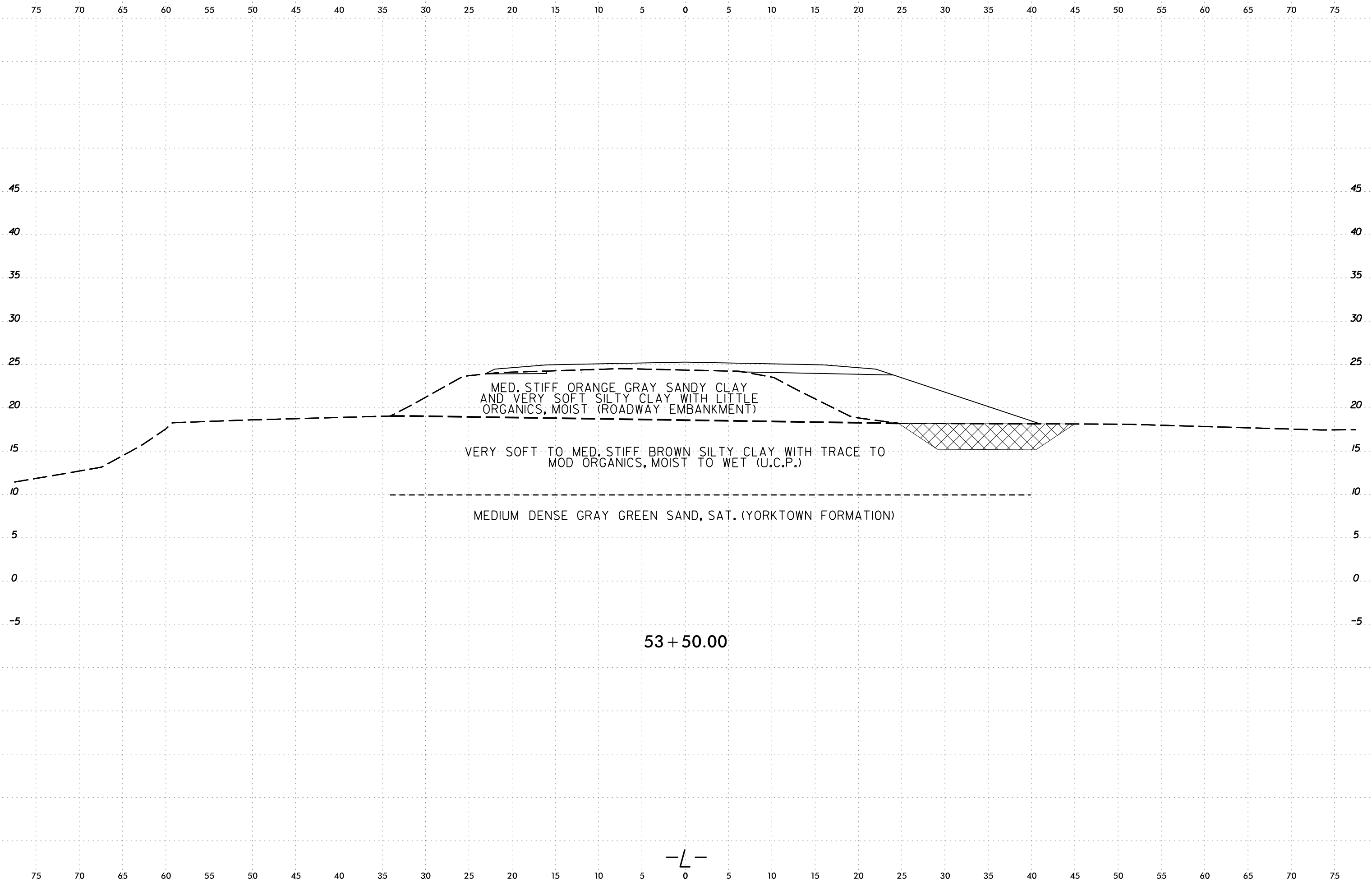
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AT CAT-1 STONE-18

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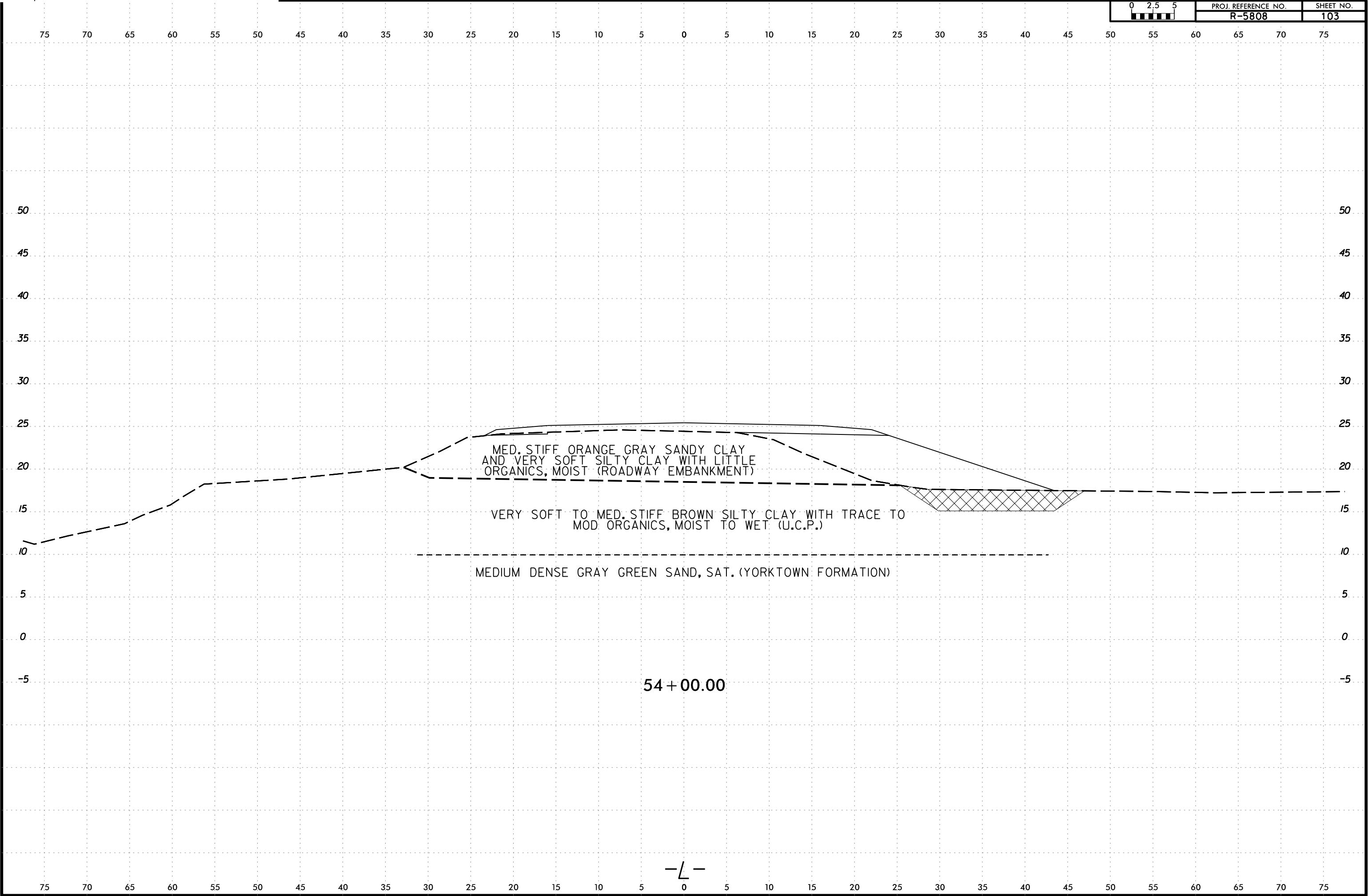




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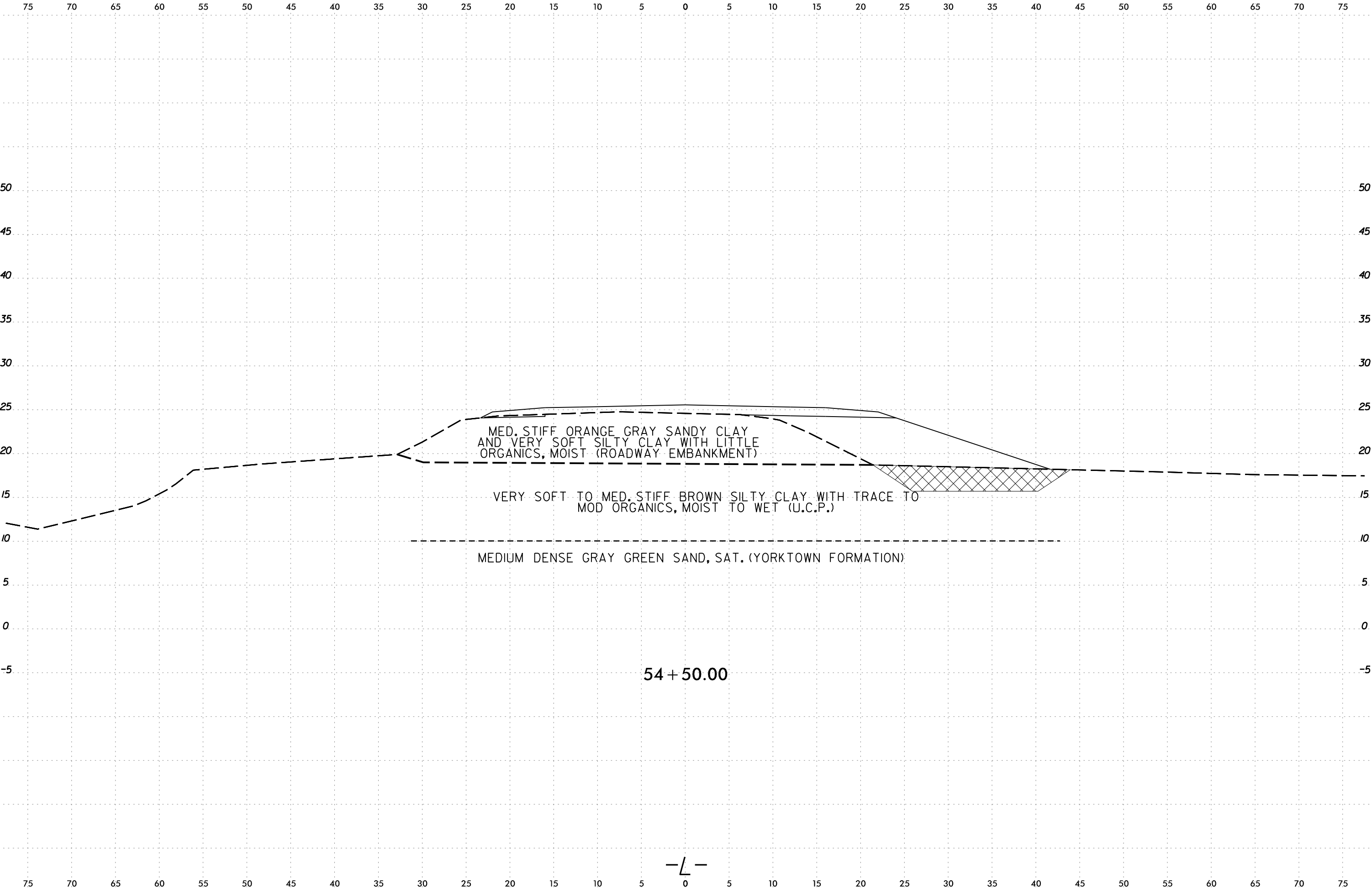
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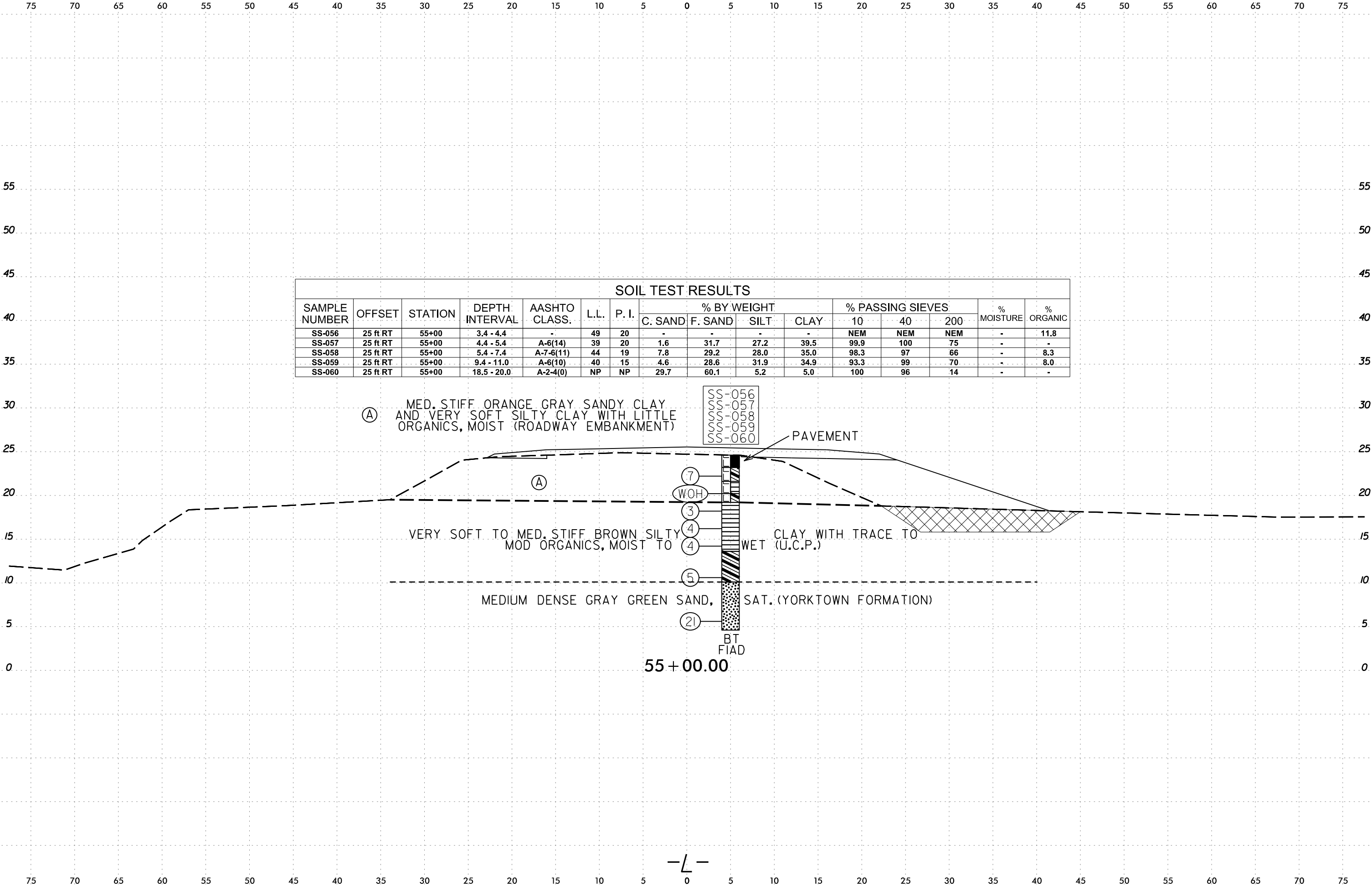


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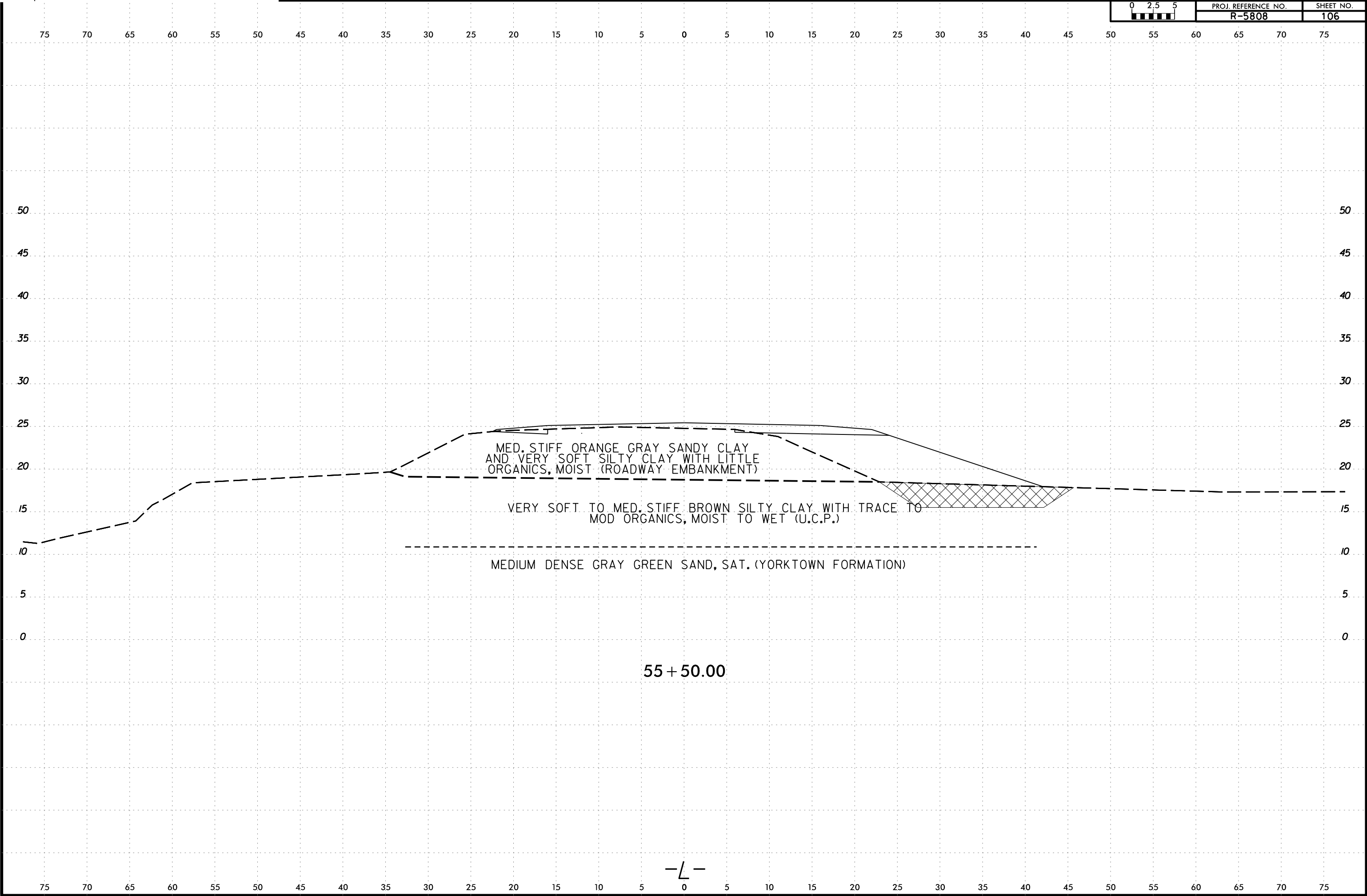
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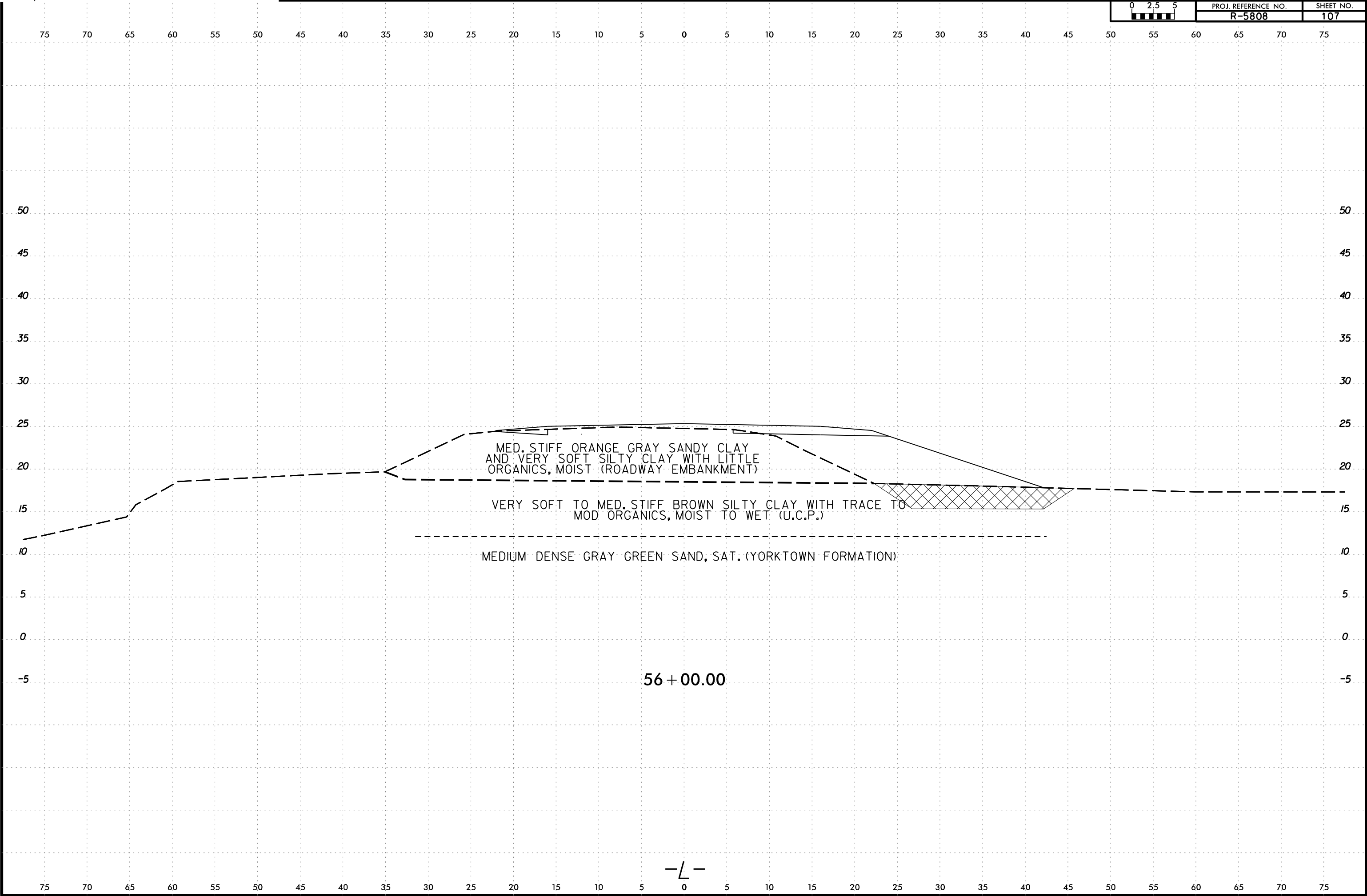
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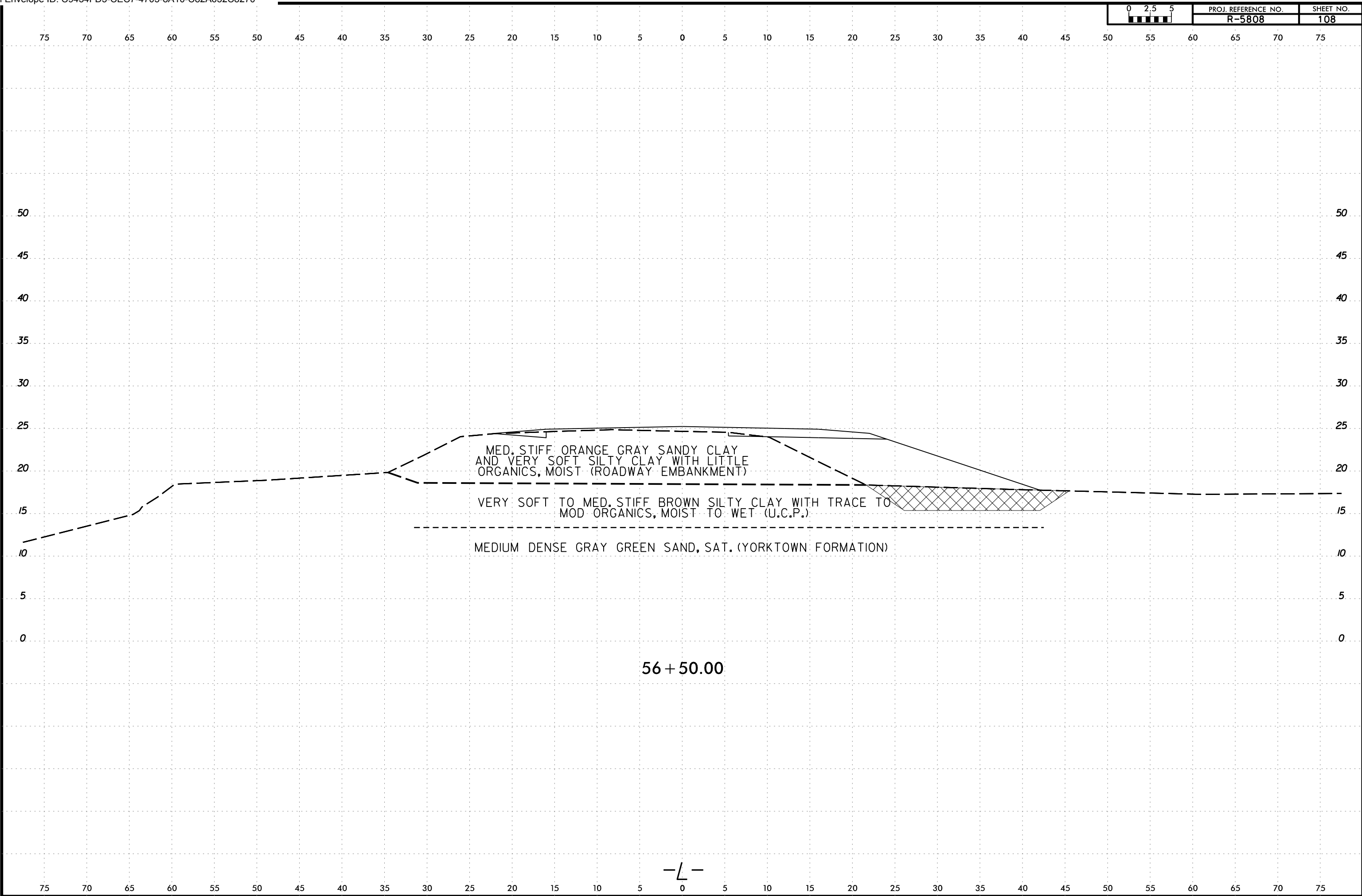


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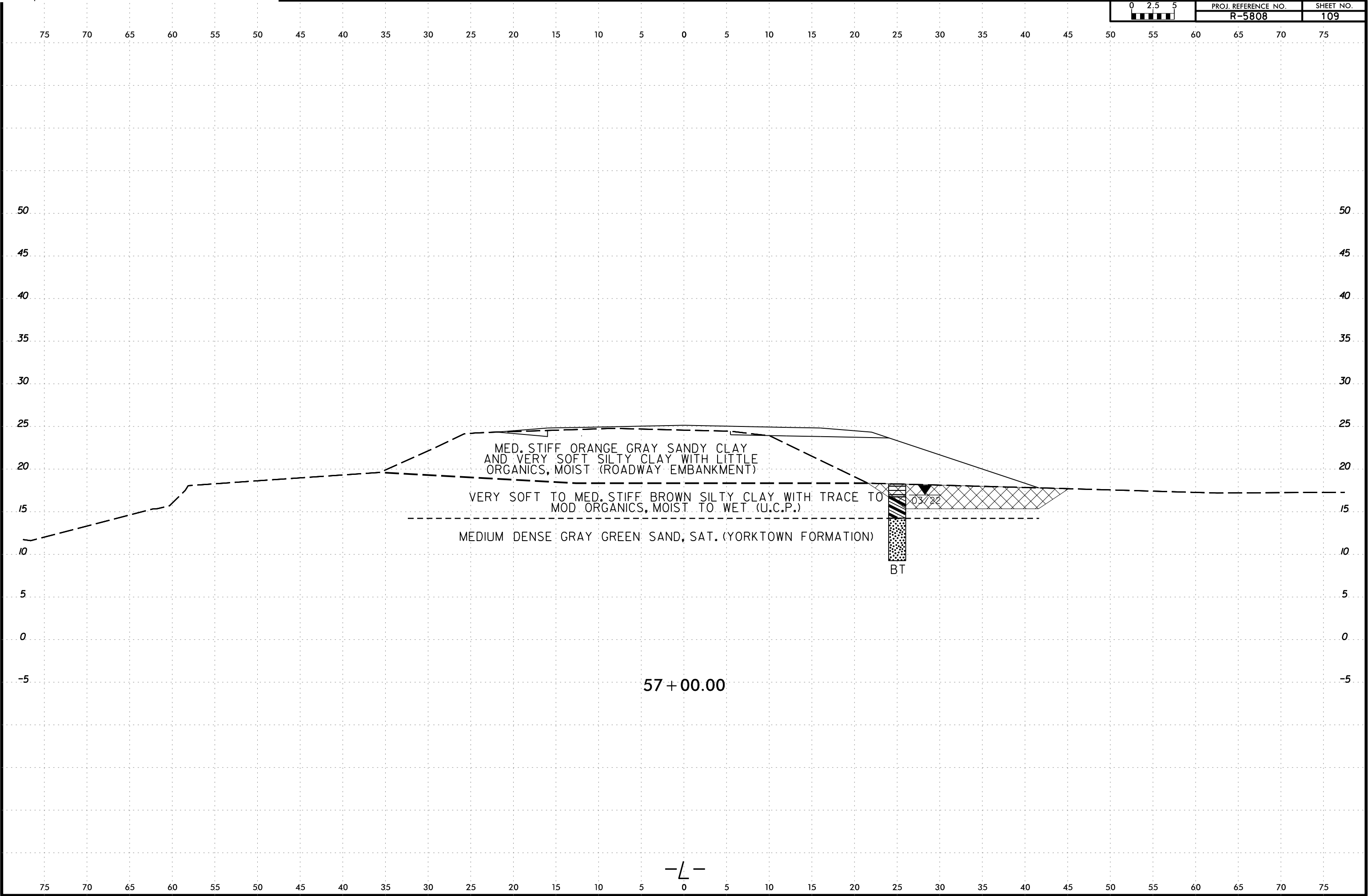




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AT CAT-STONE-18

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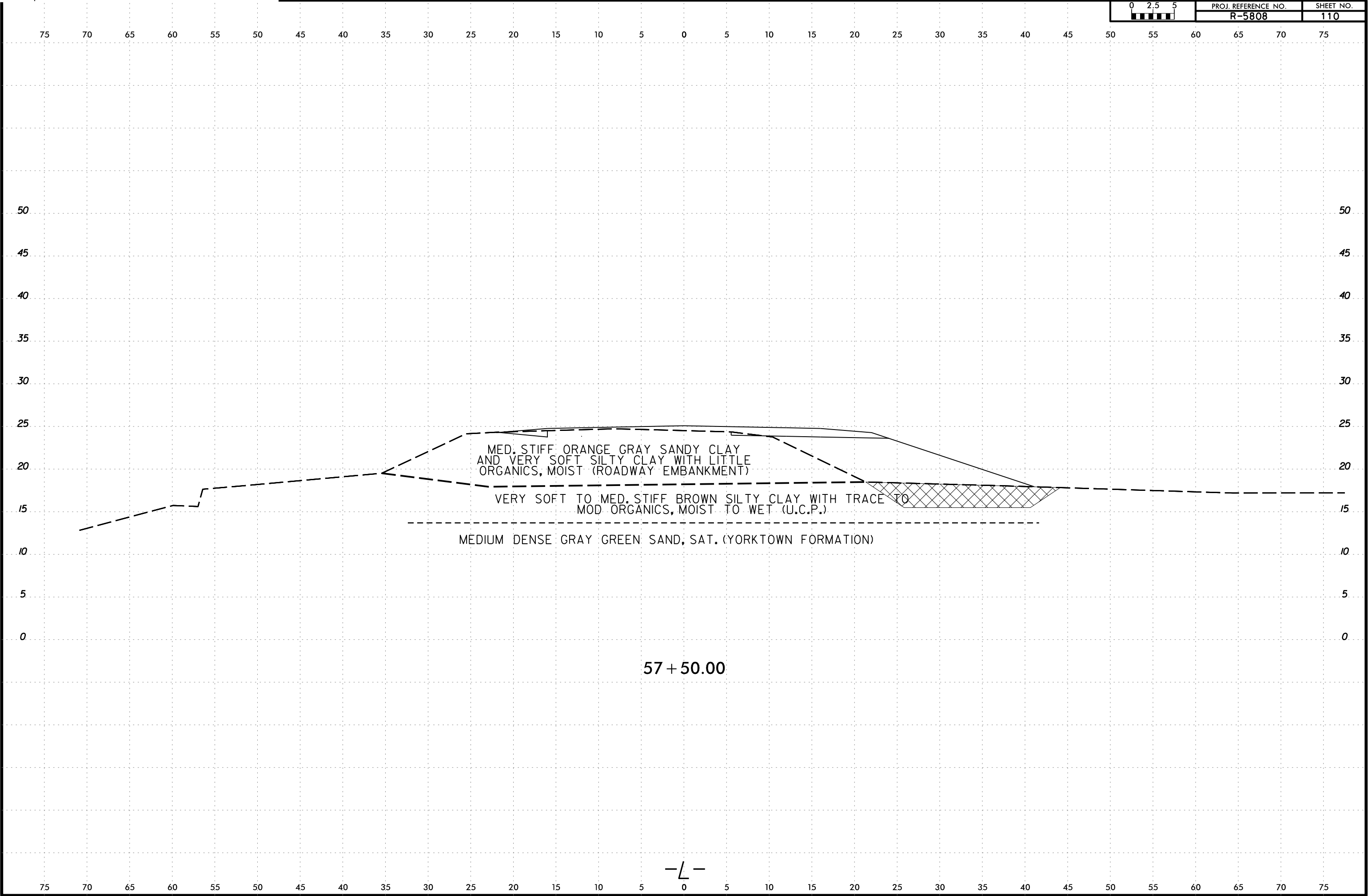


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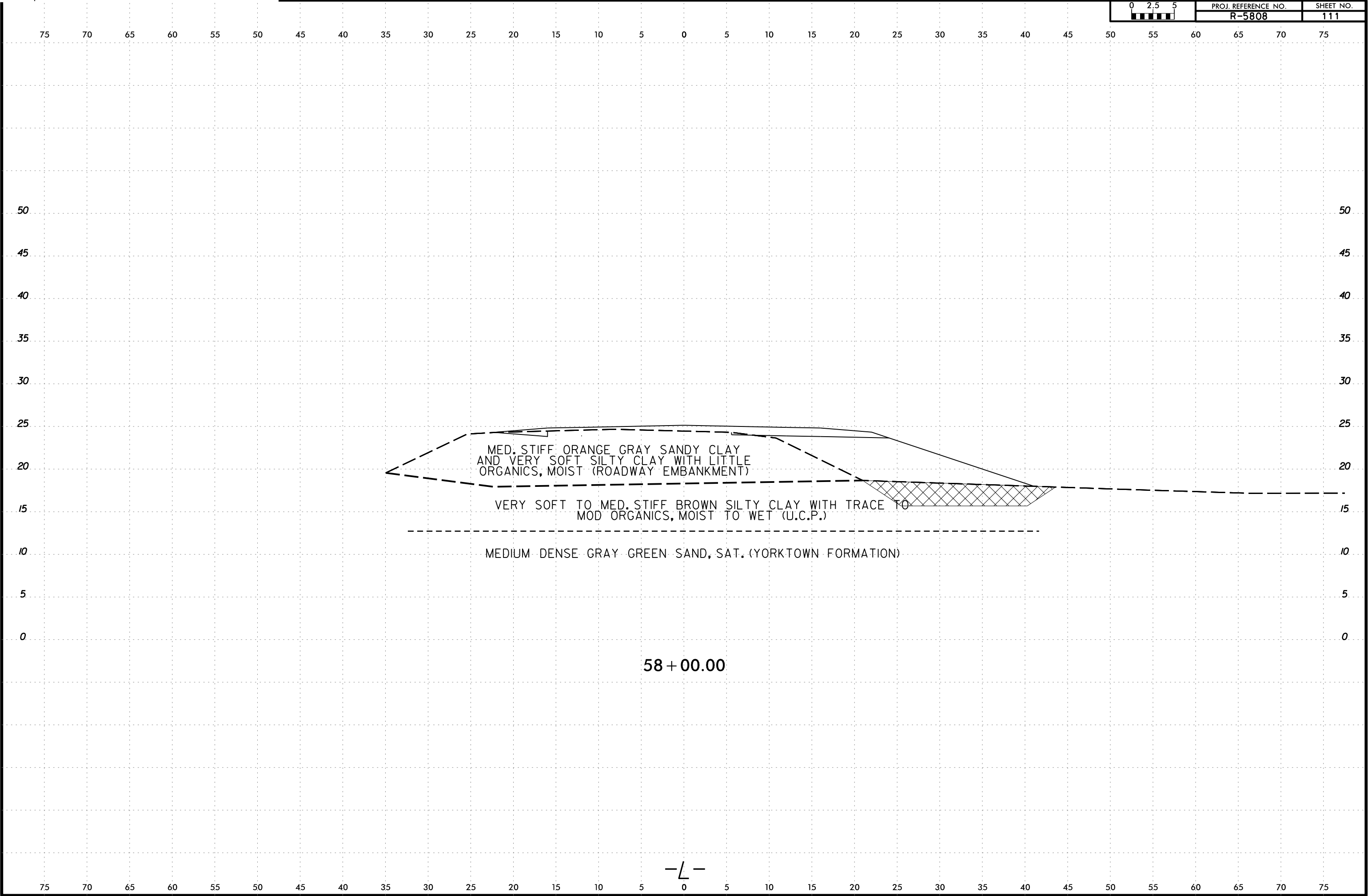
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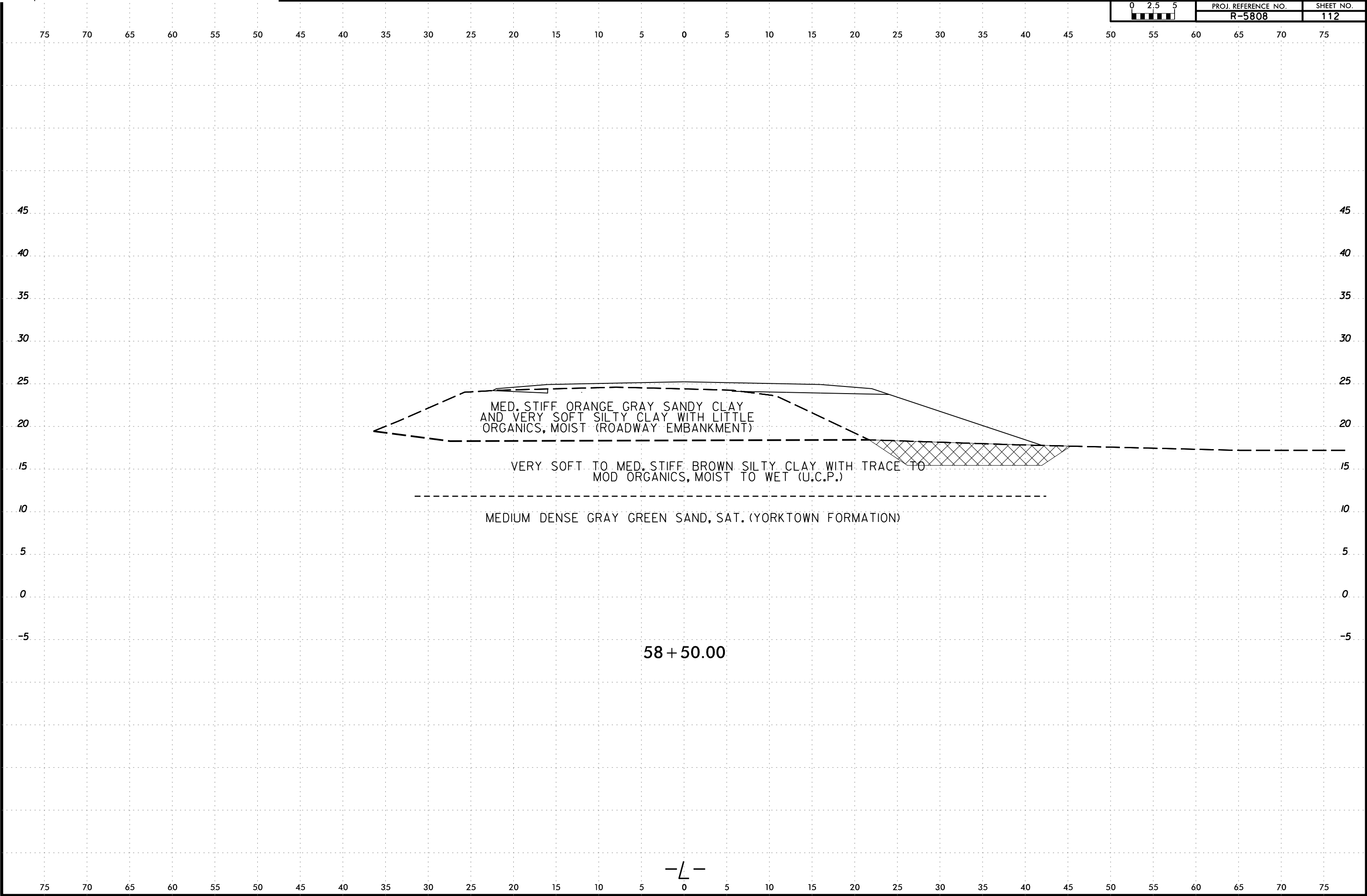


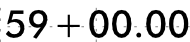
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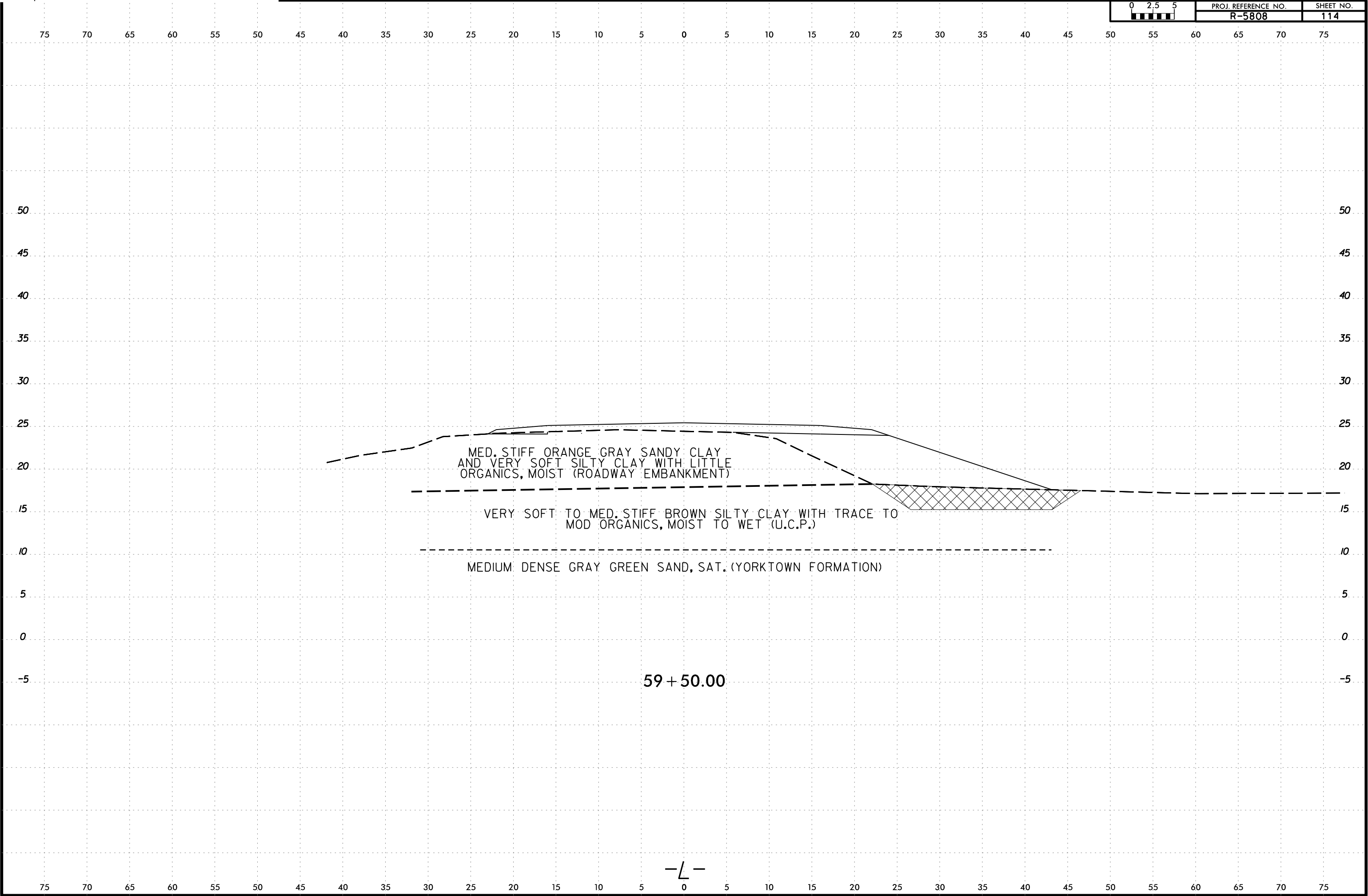




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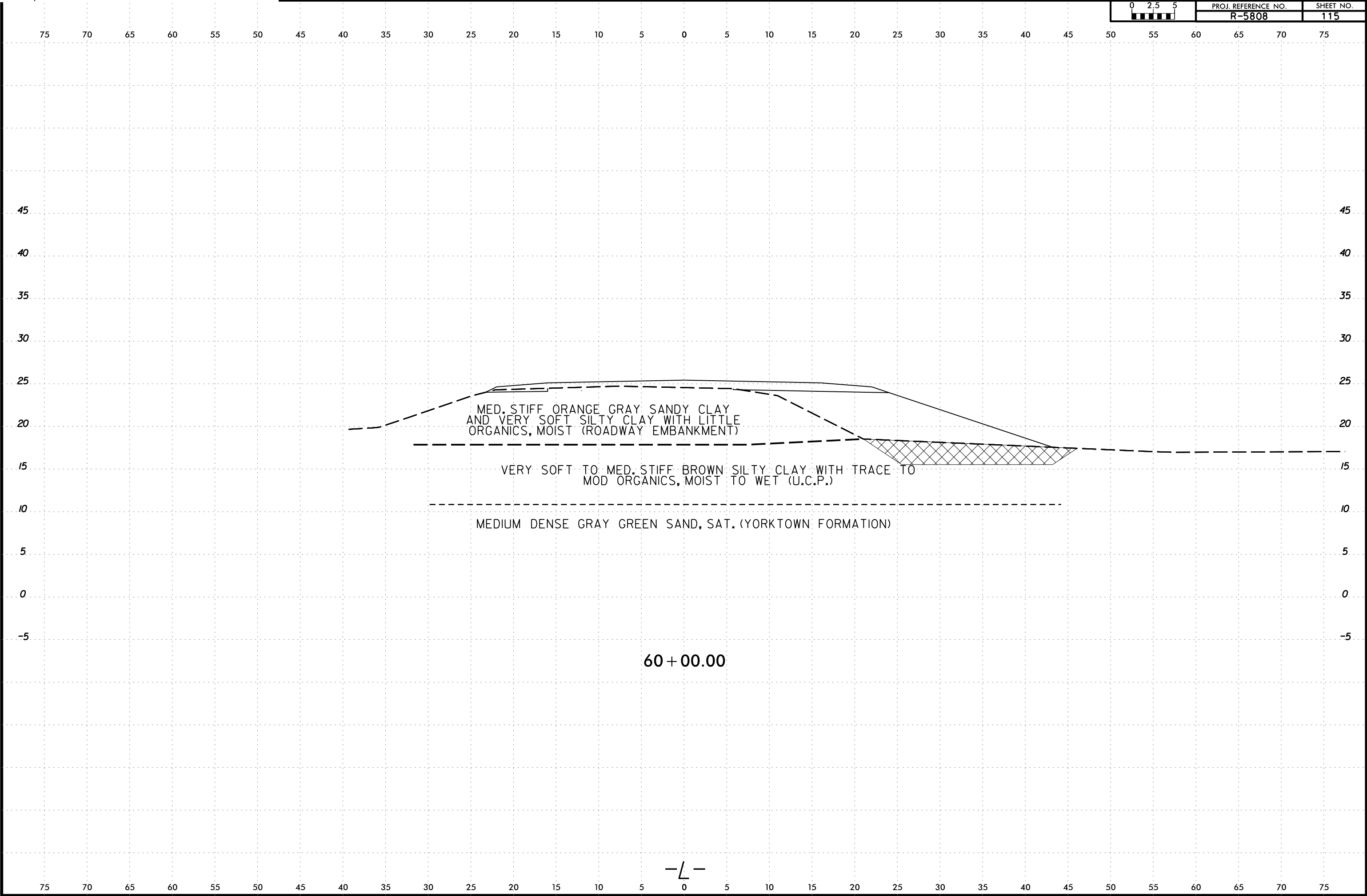


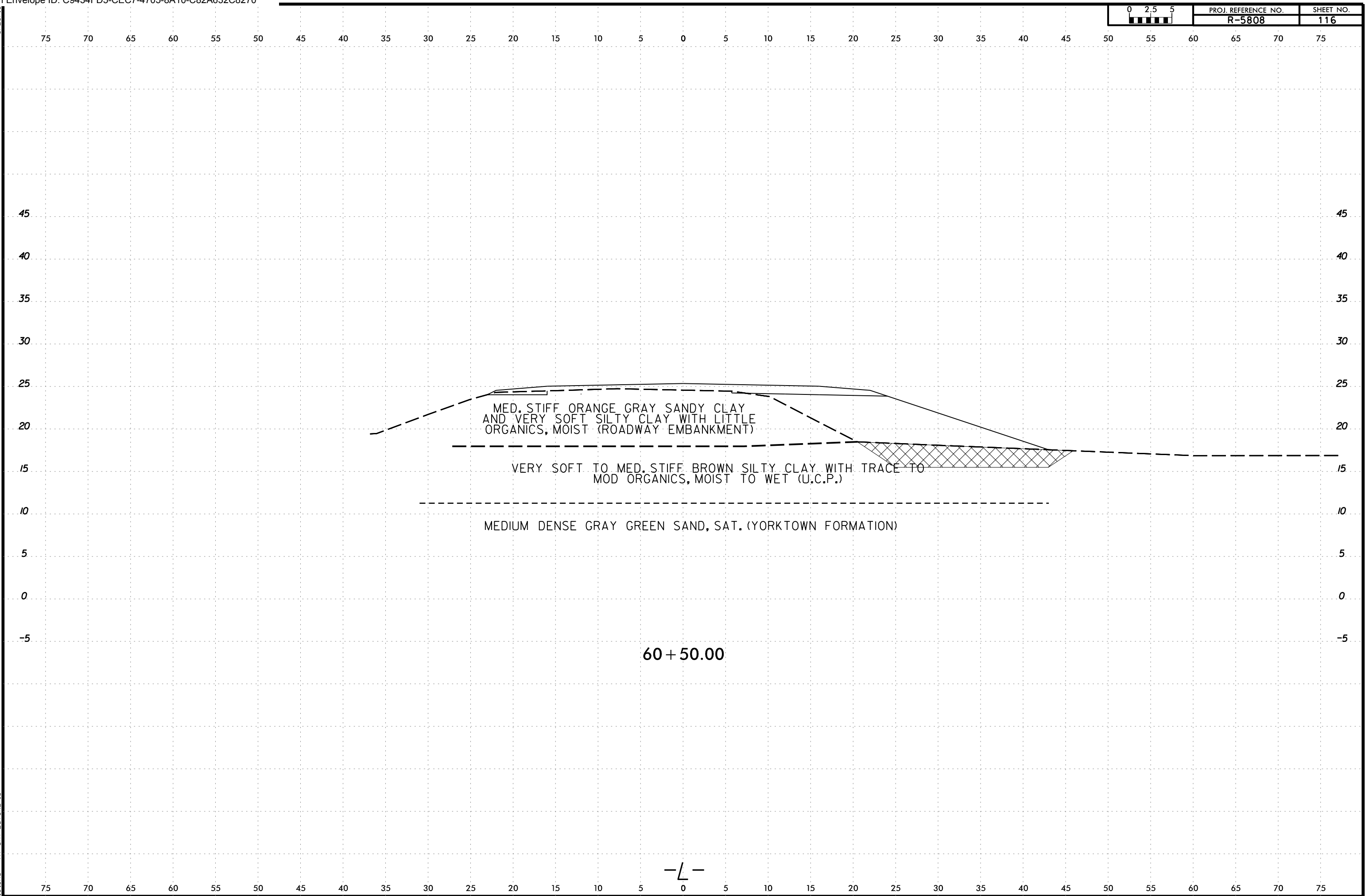
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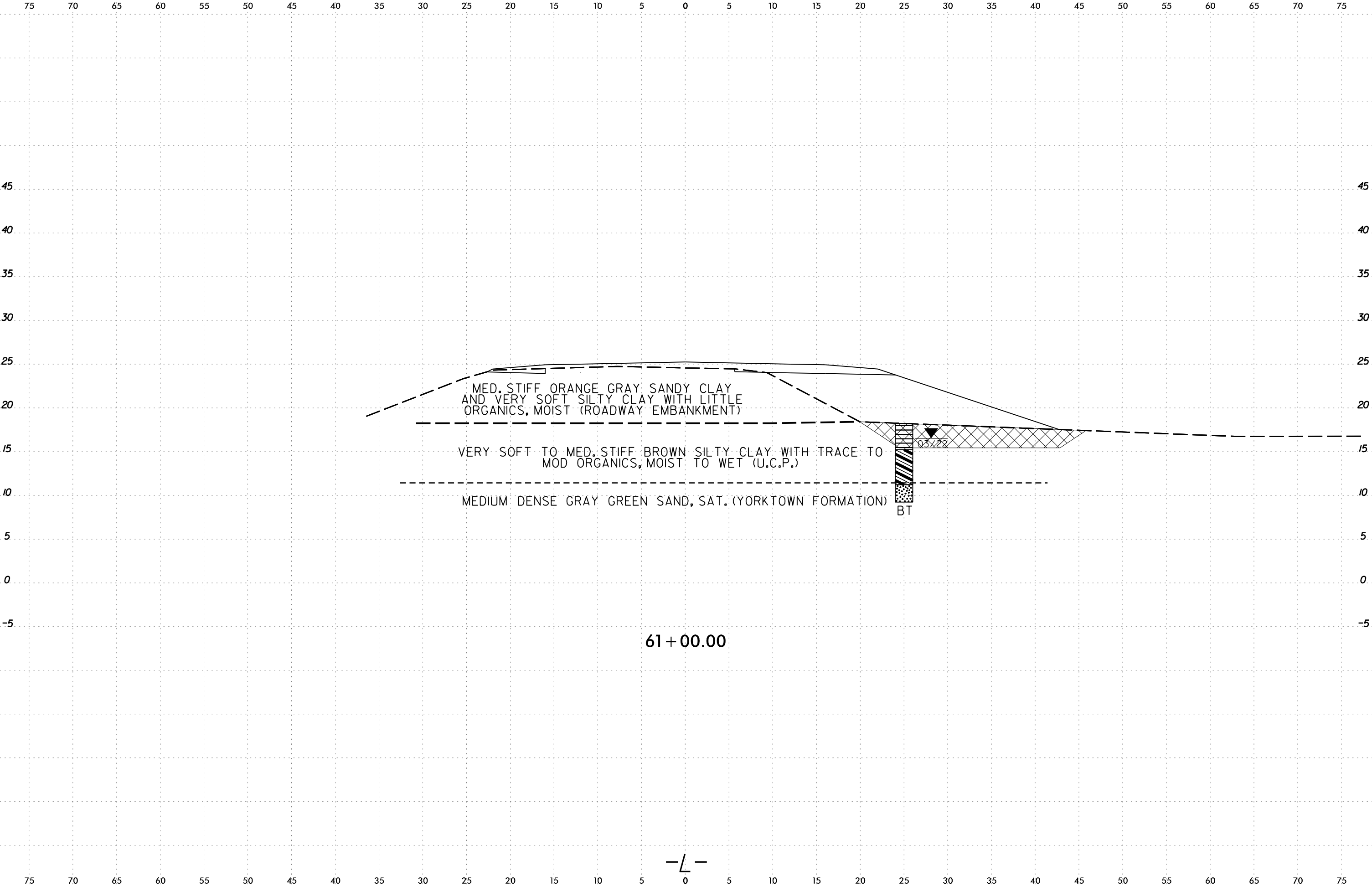


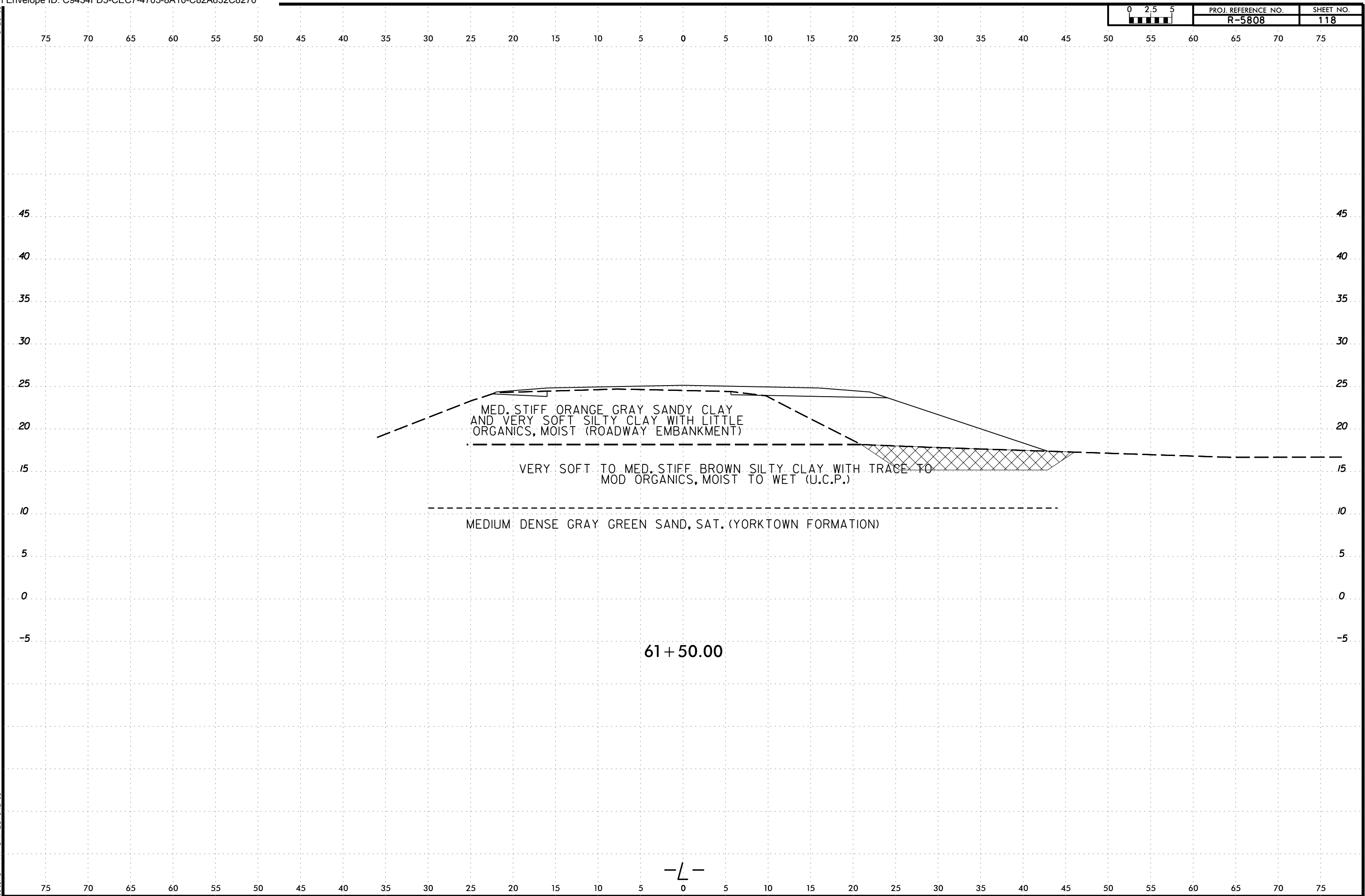


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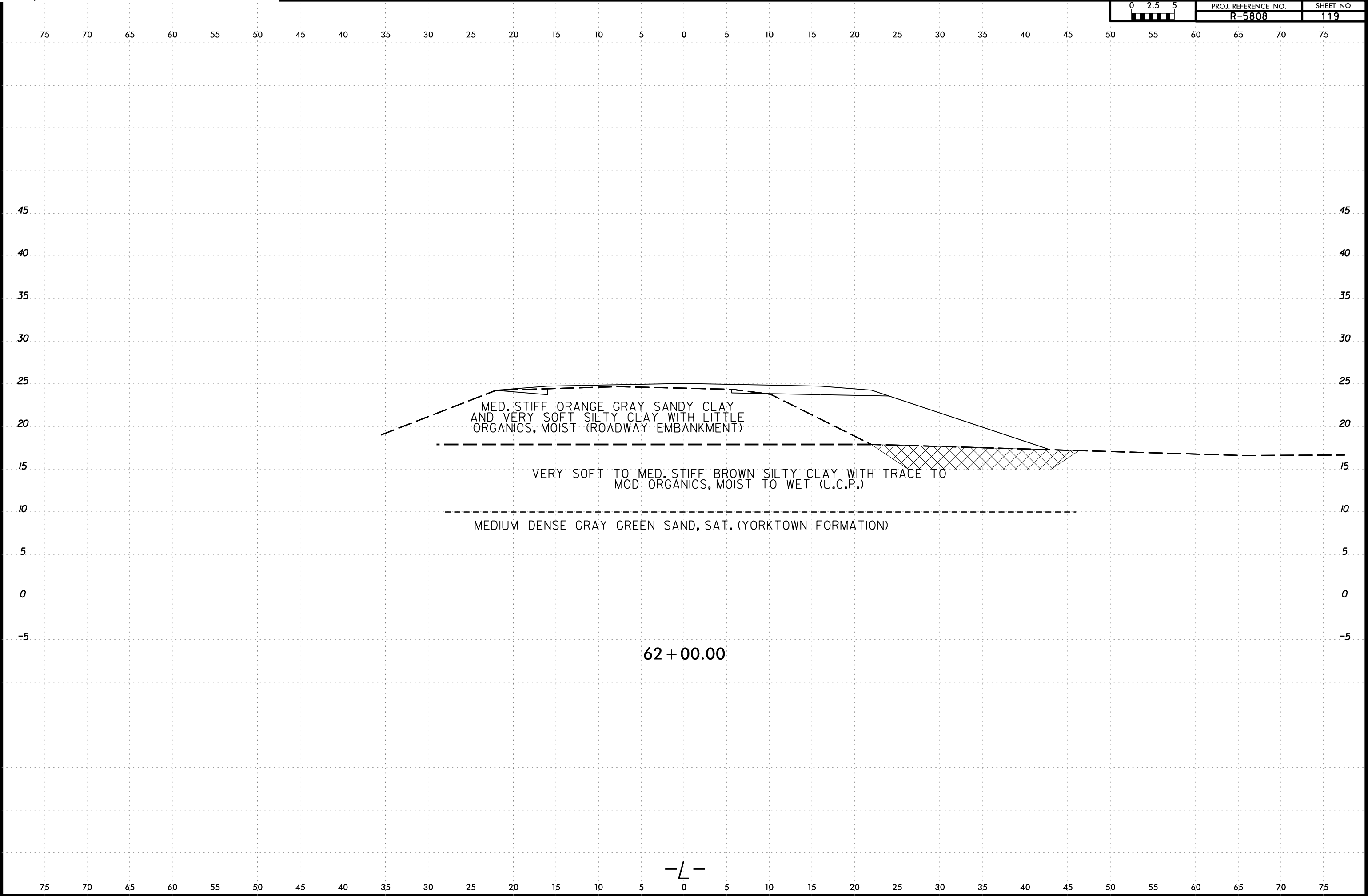




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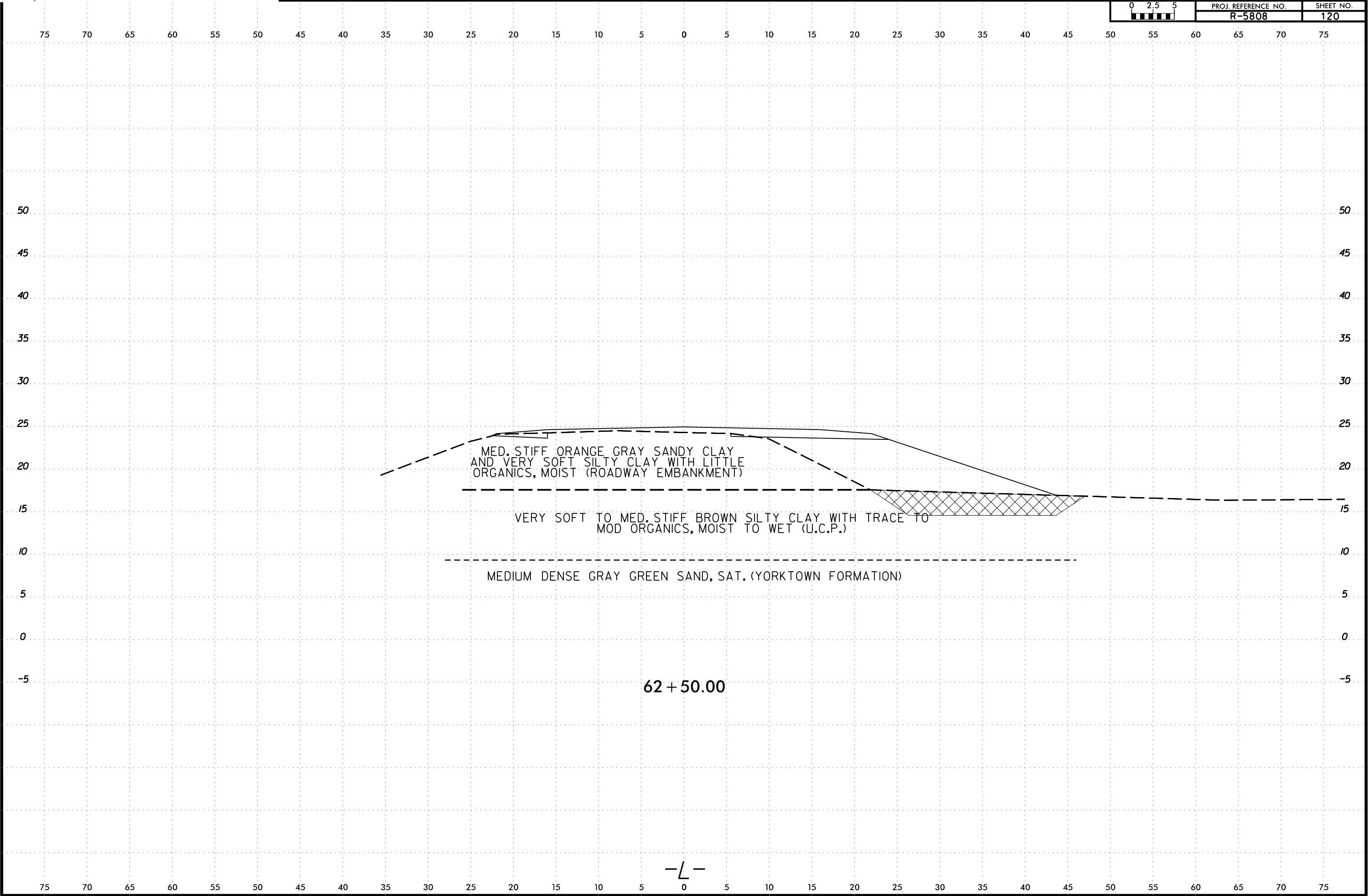
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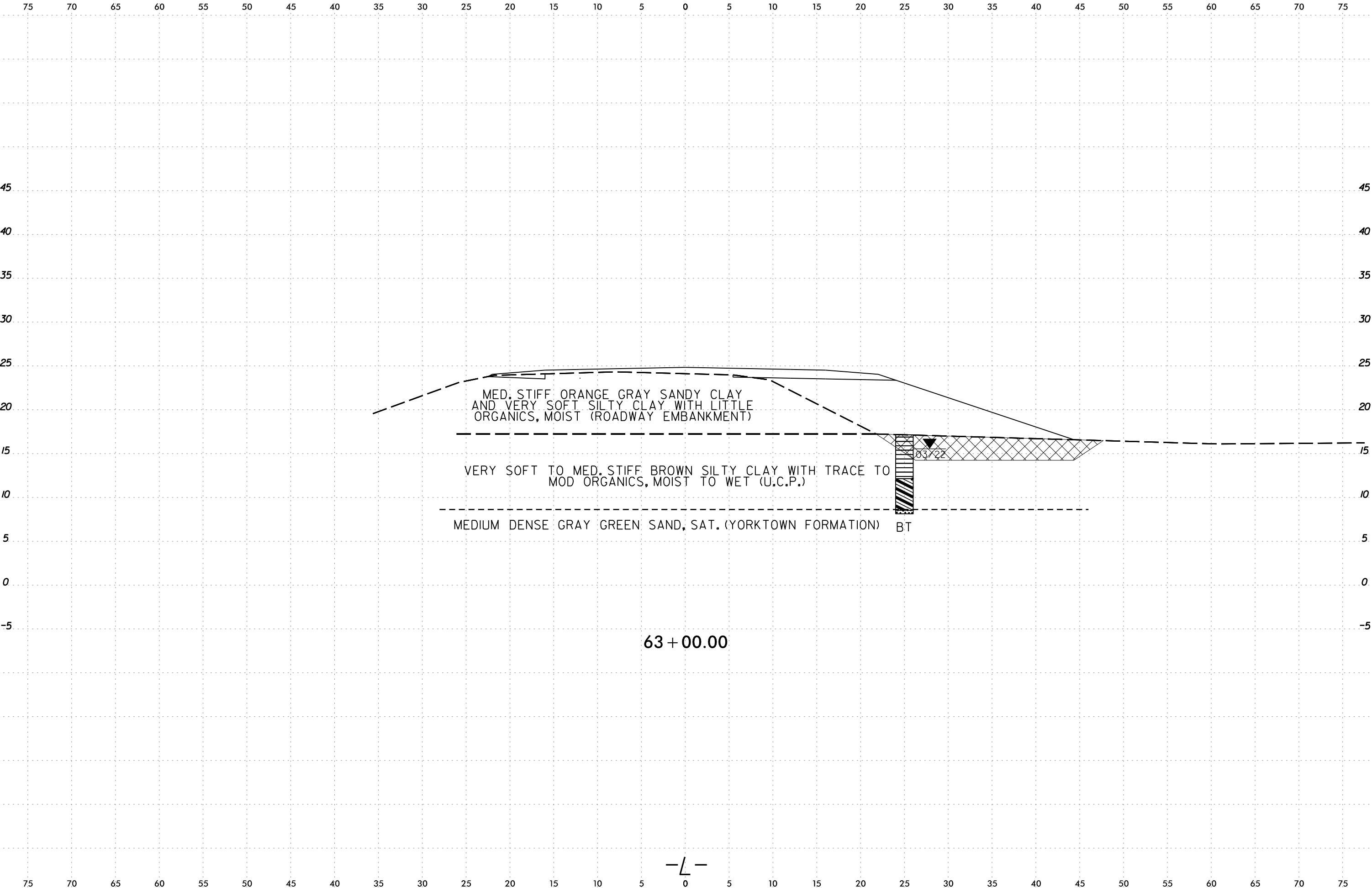
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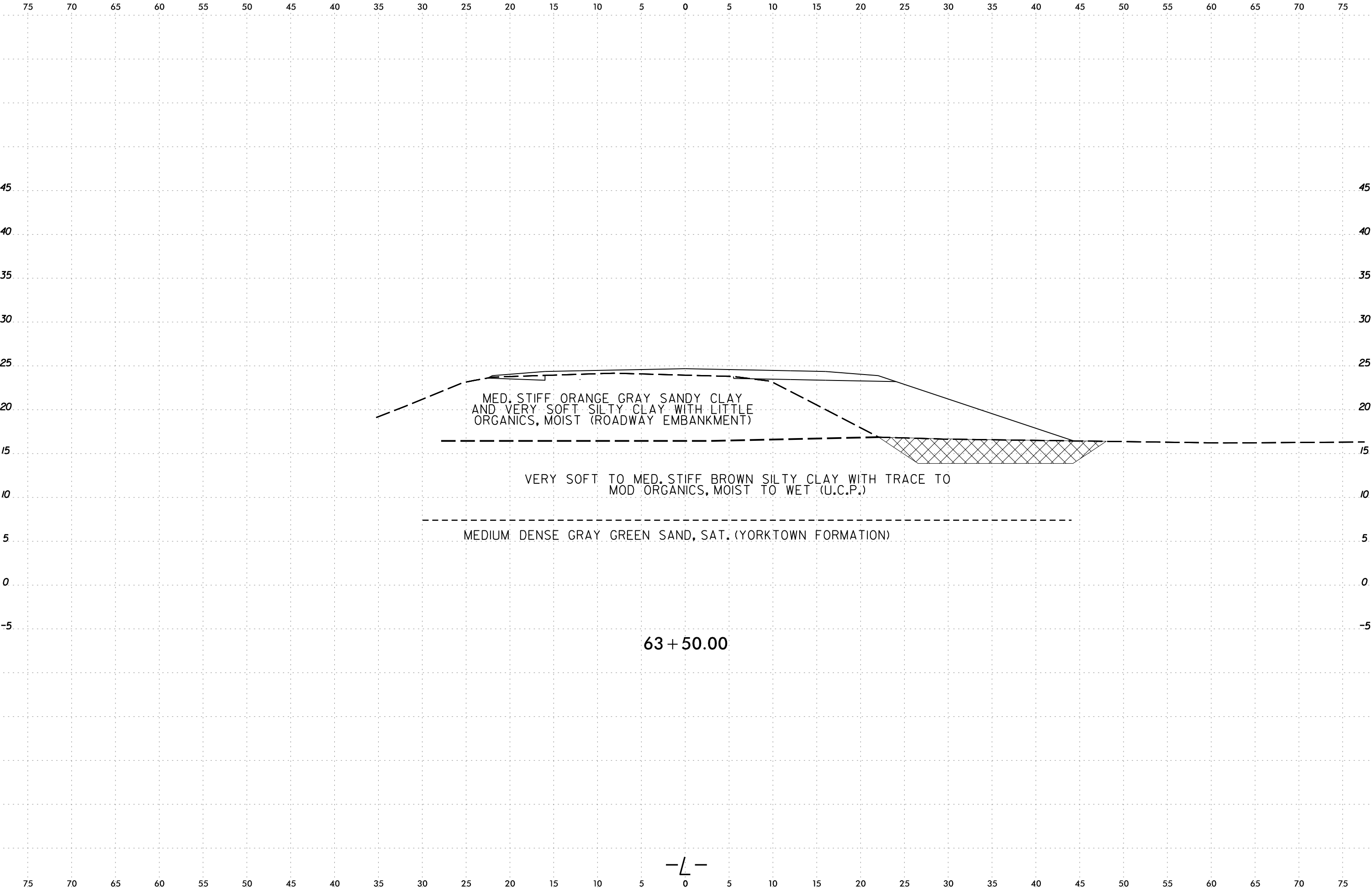
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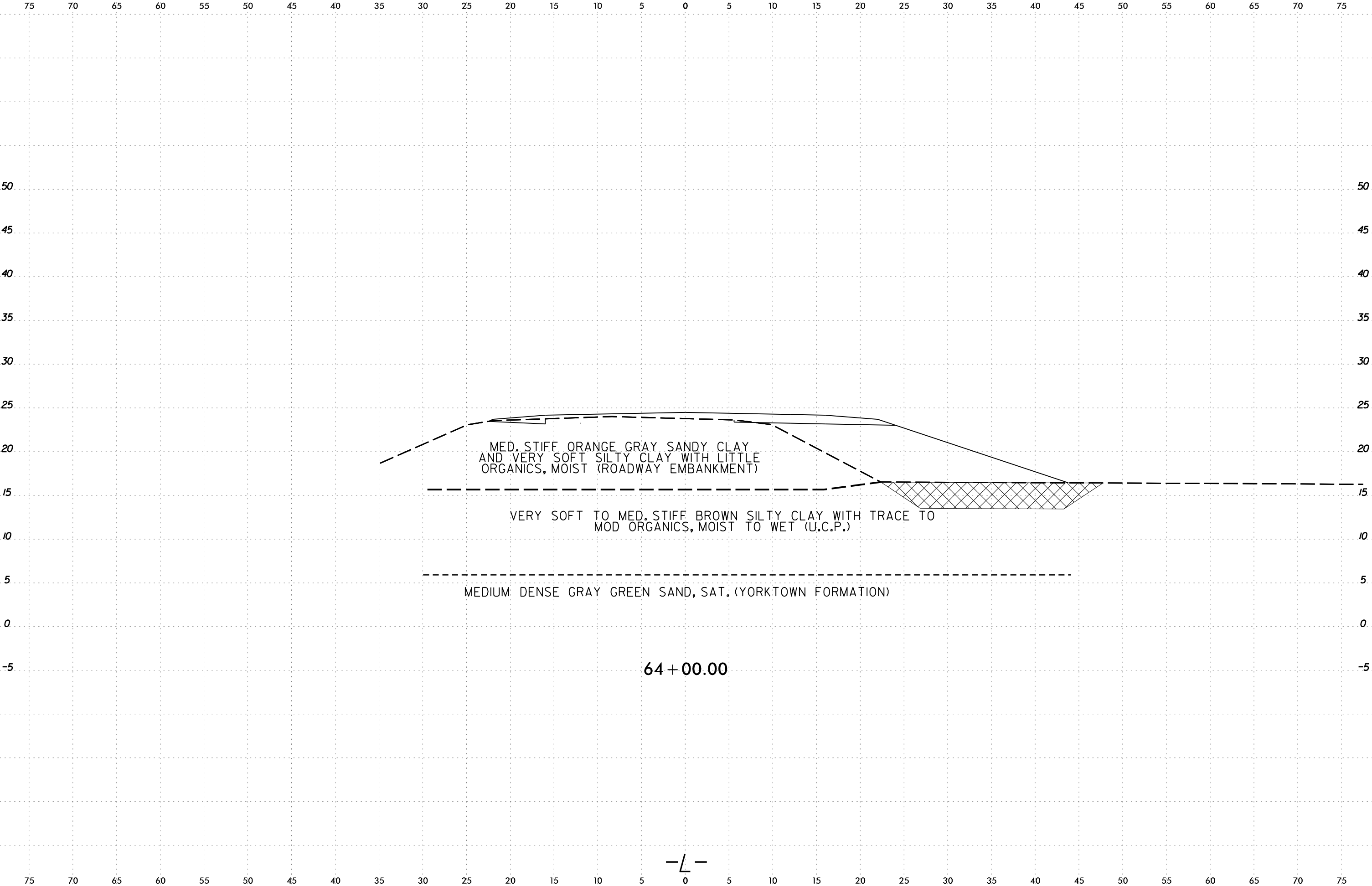
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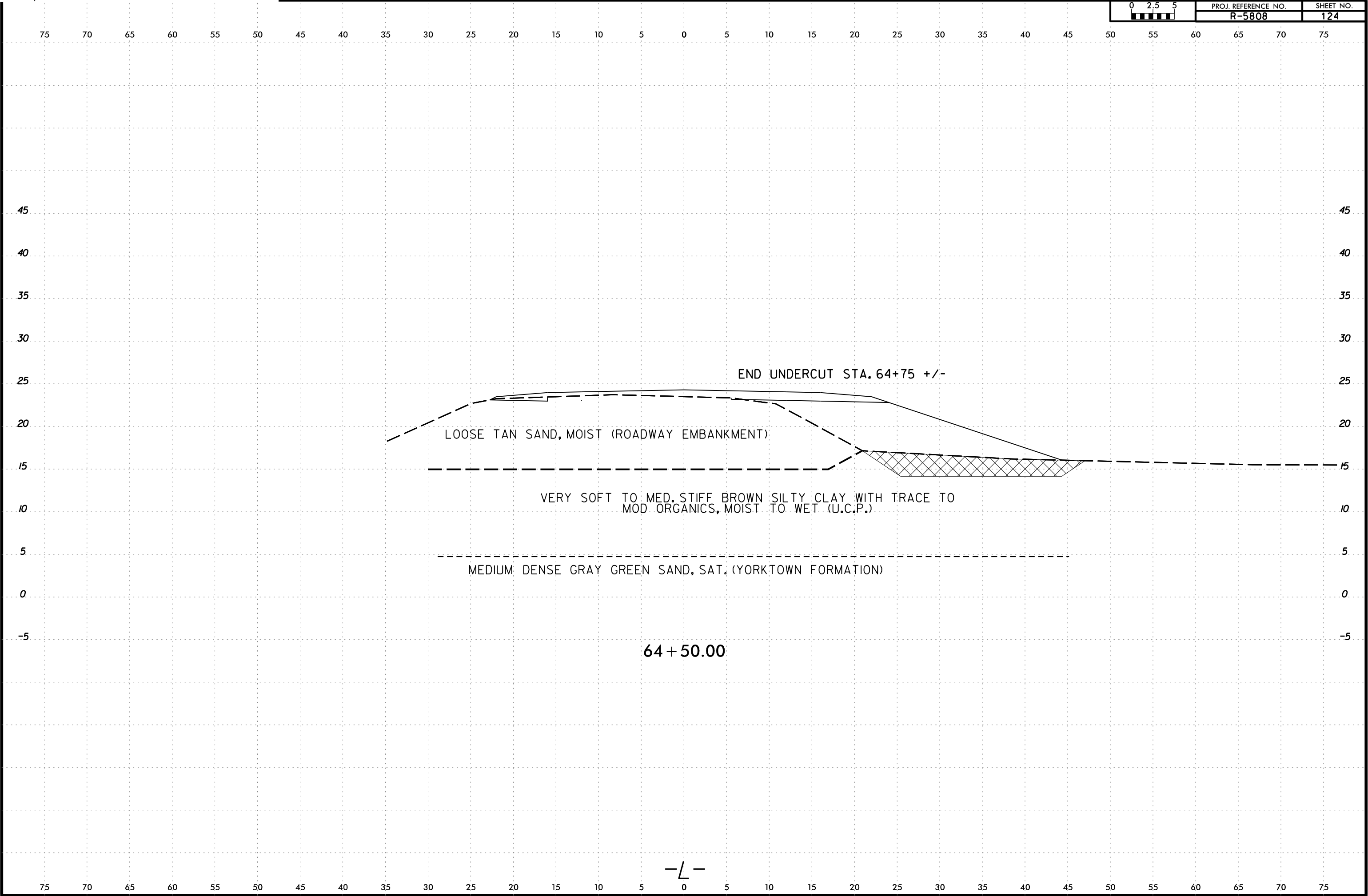
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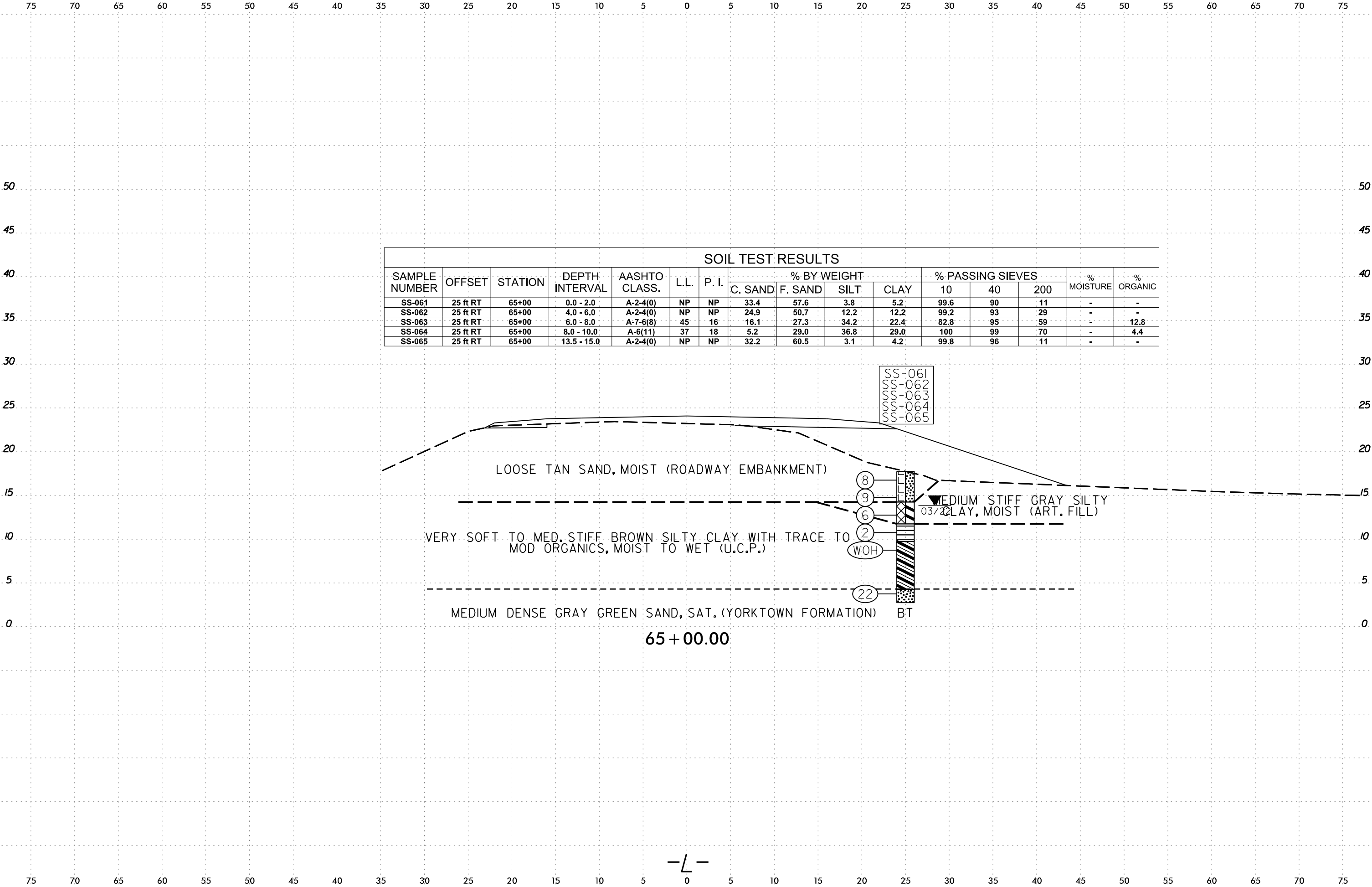
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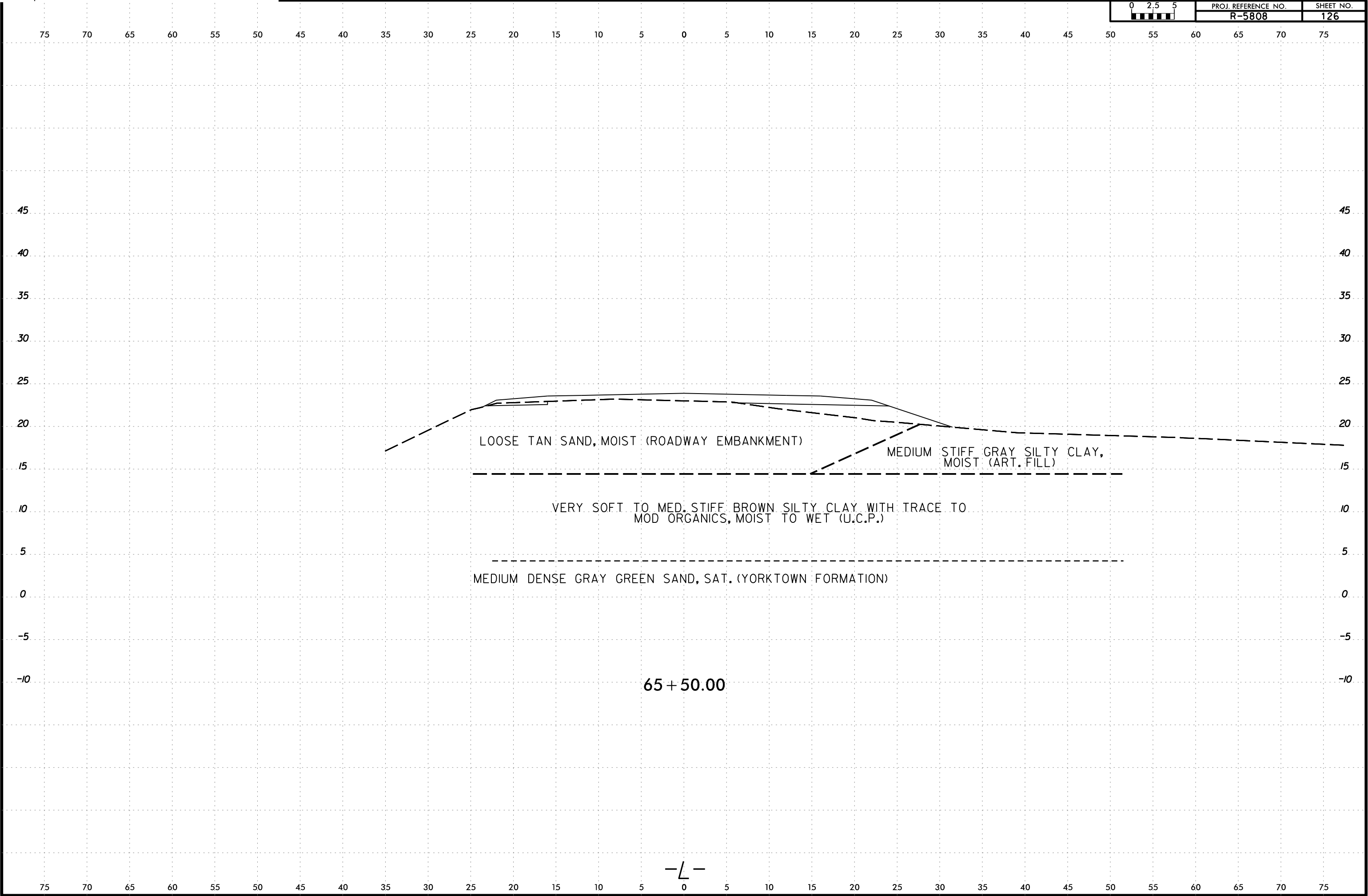
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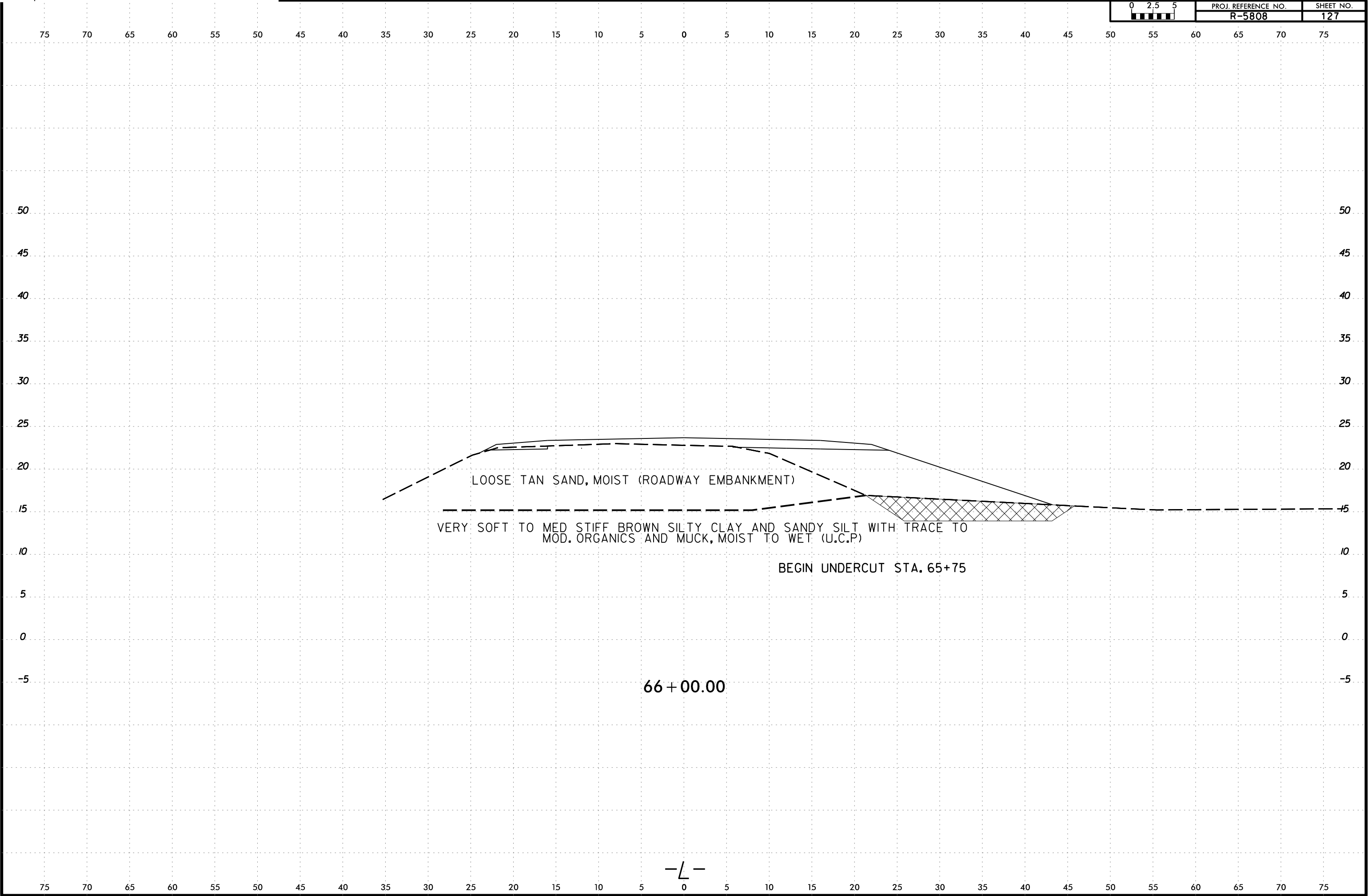


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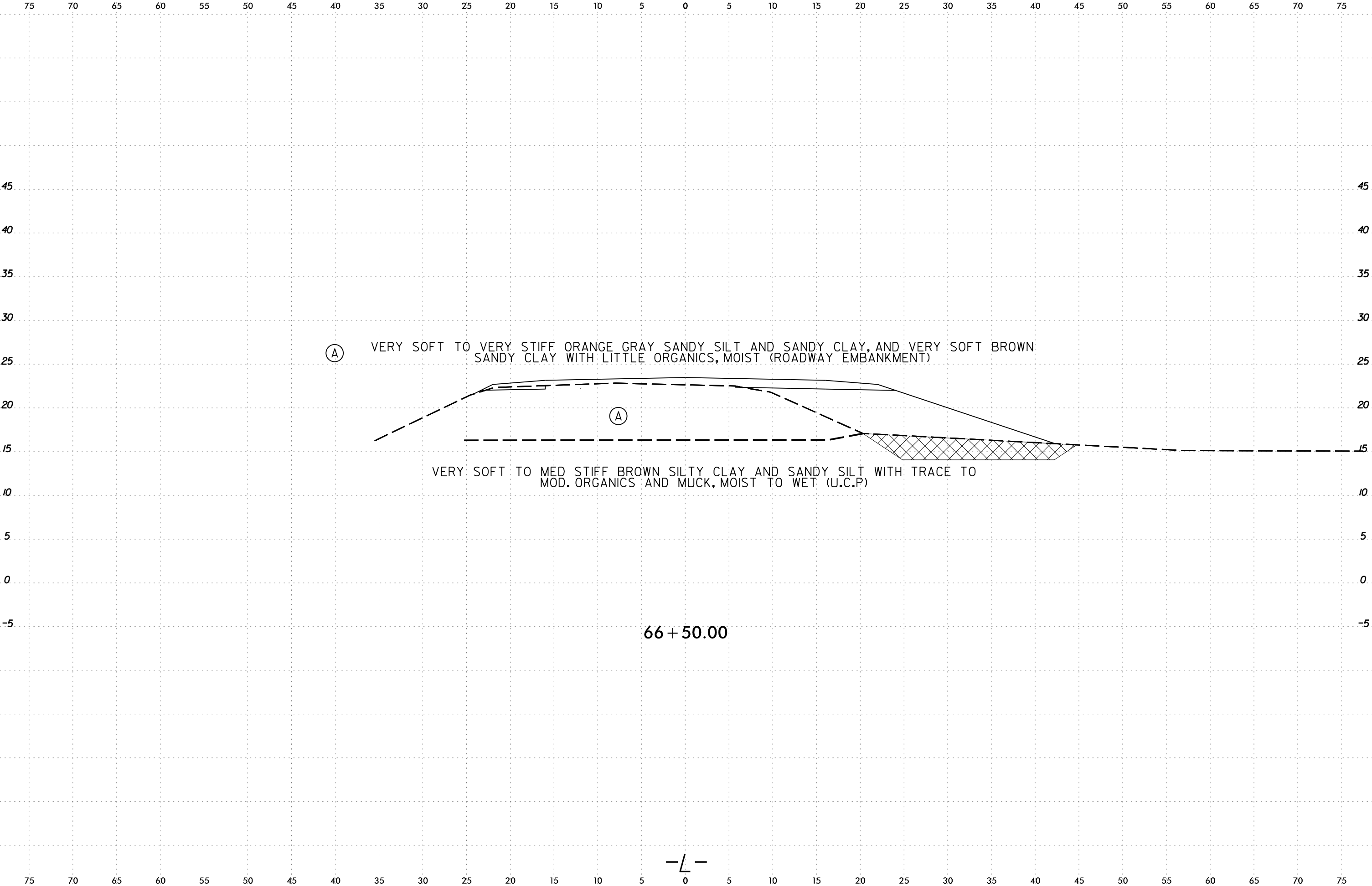
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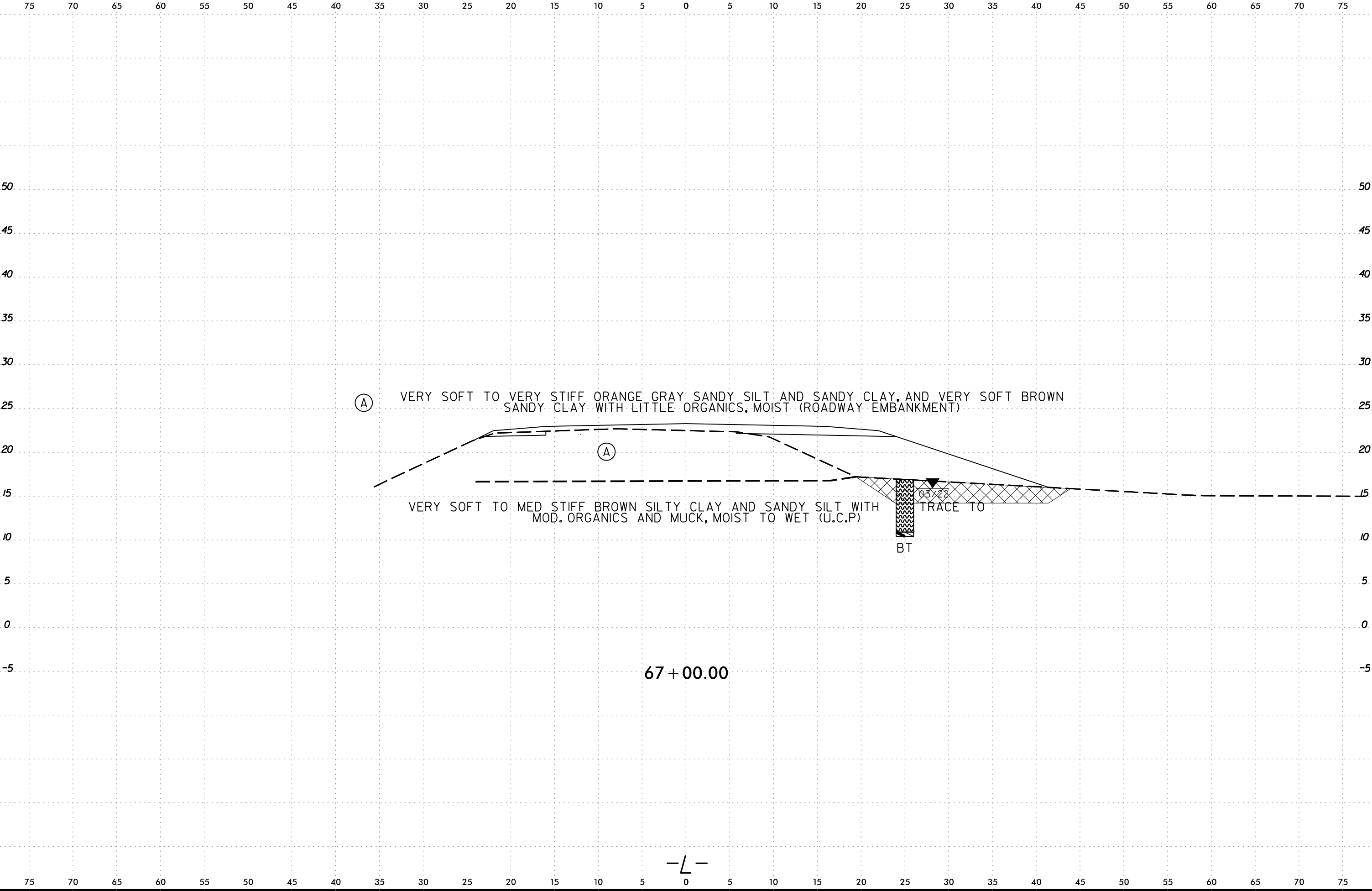
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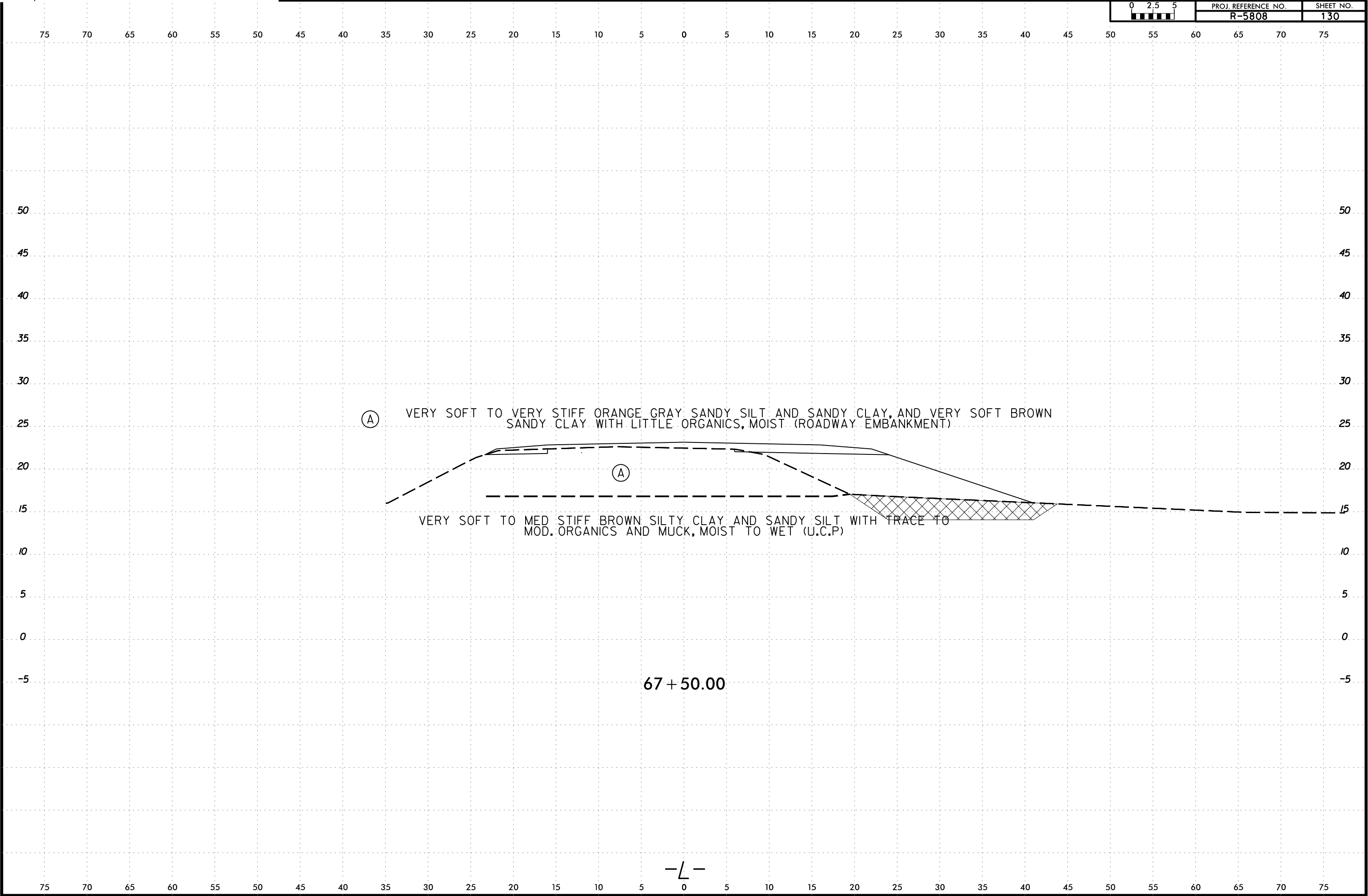
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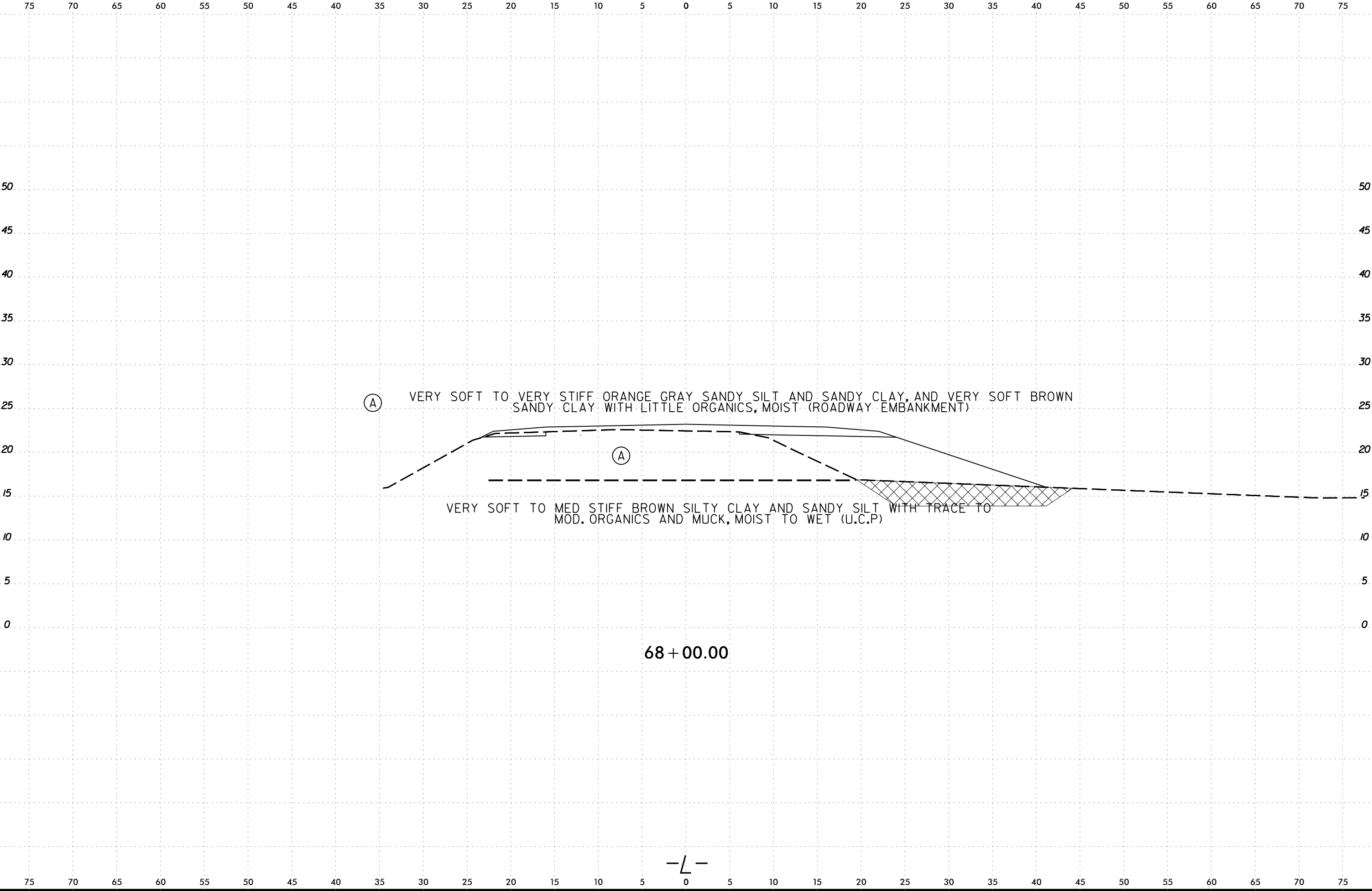
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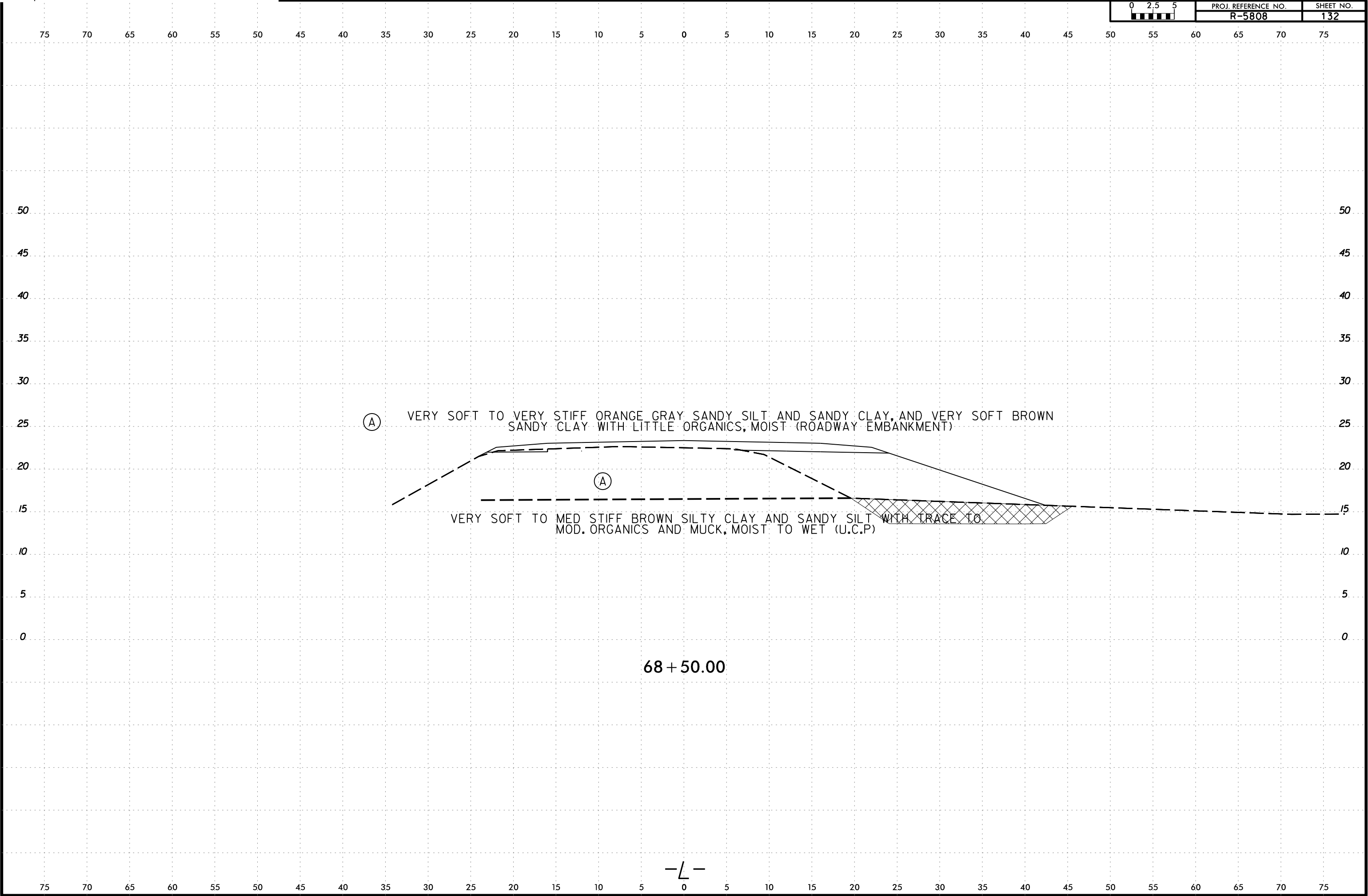
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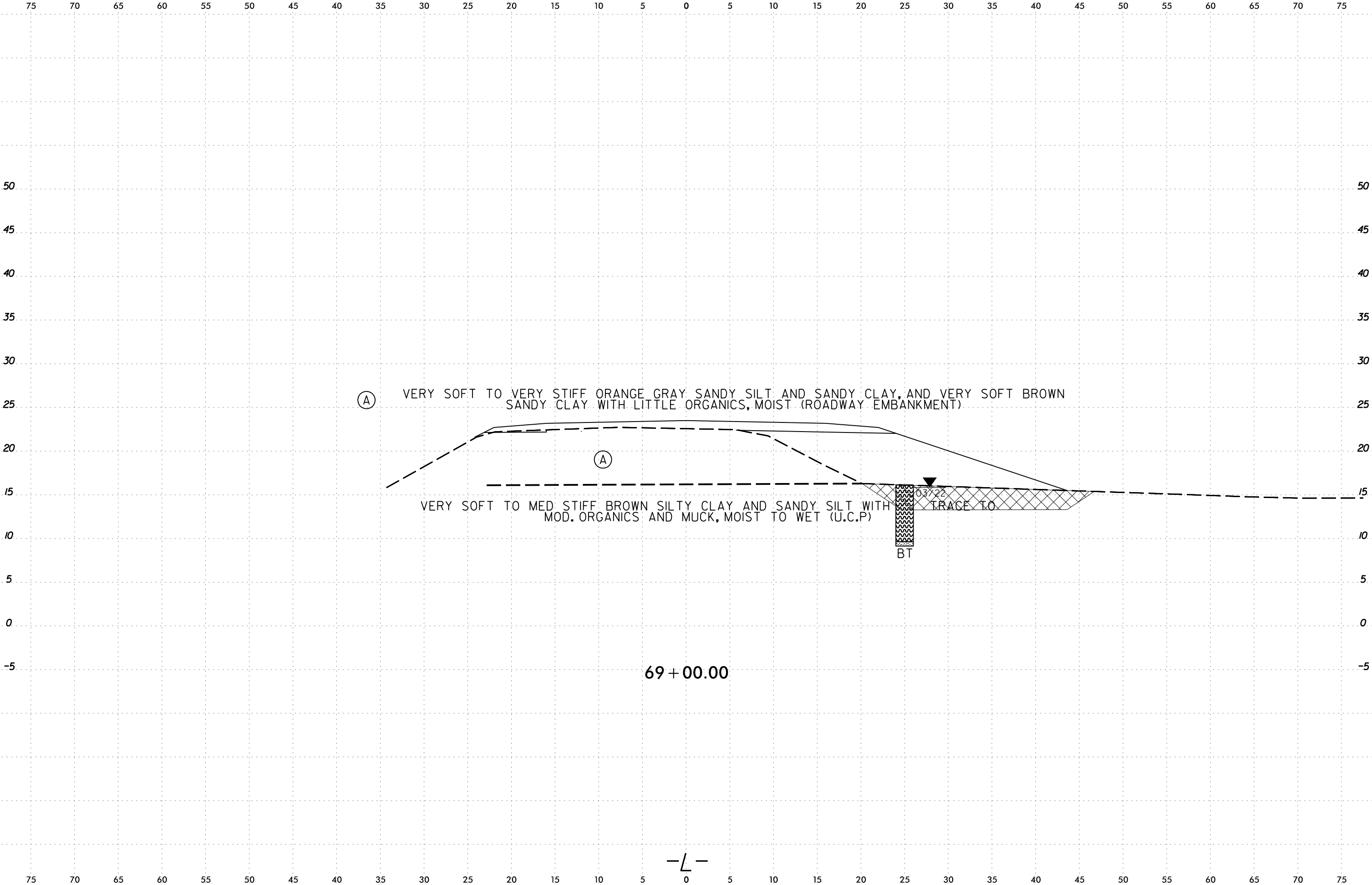
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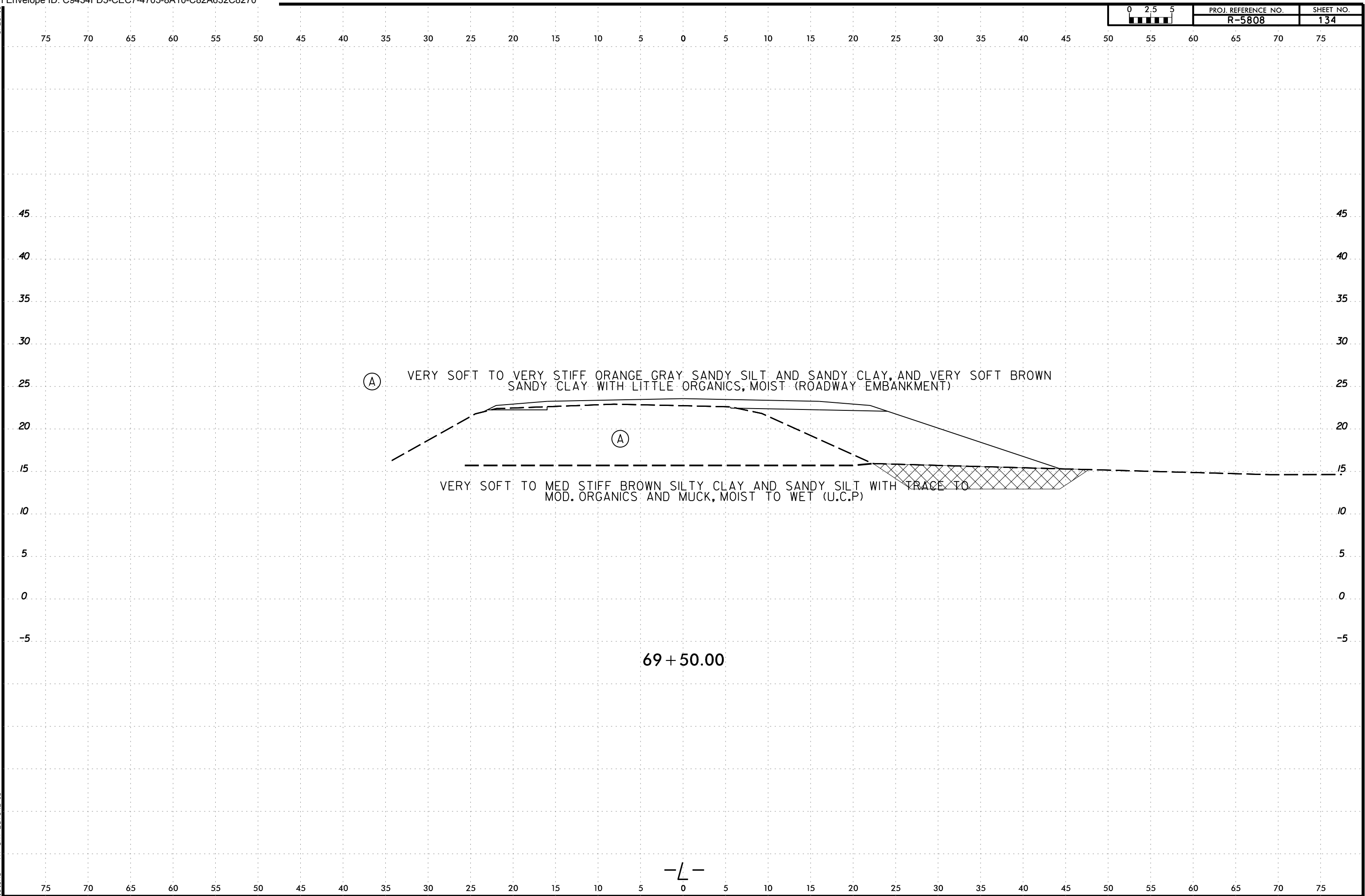


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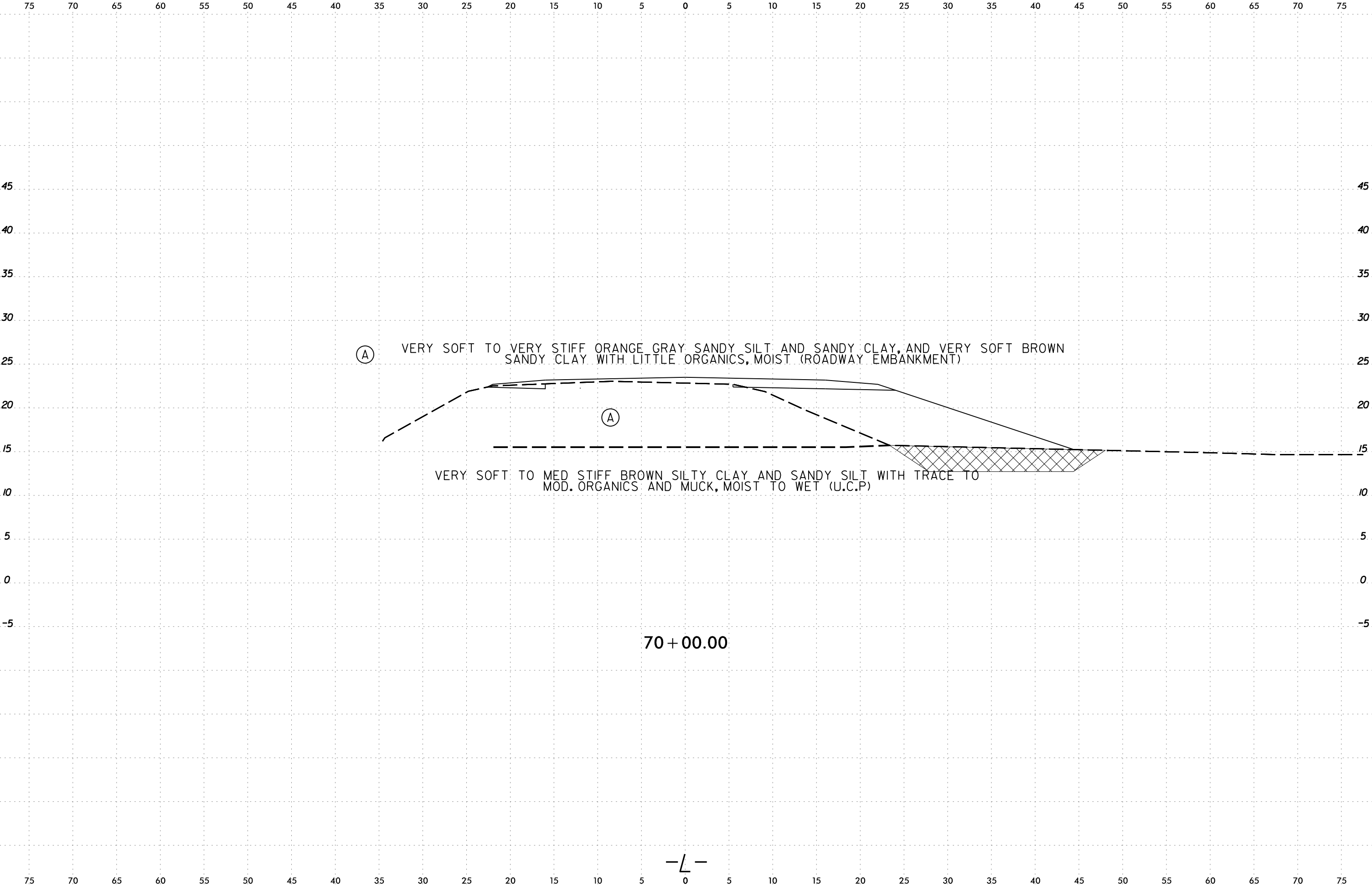




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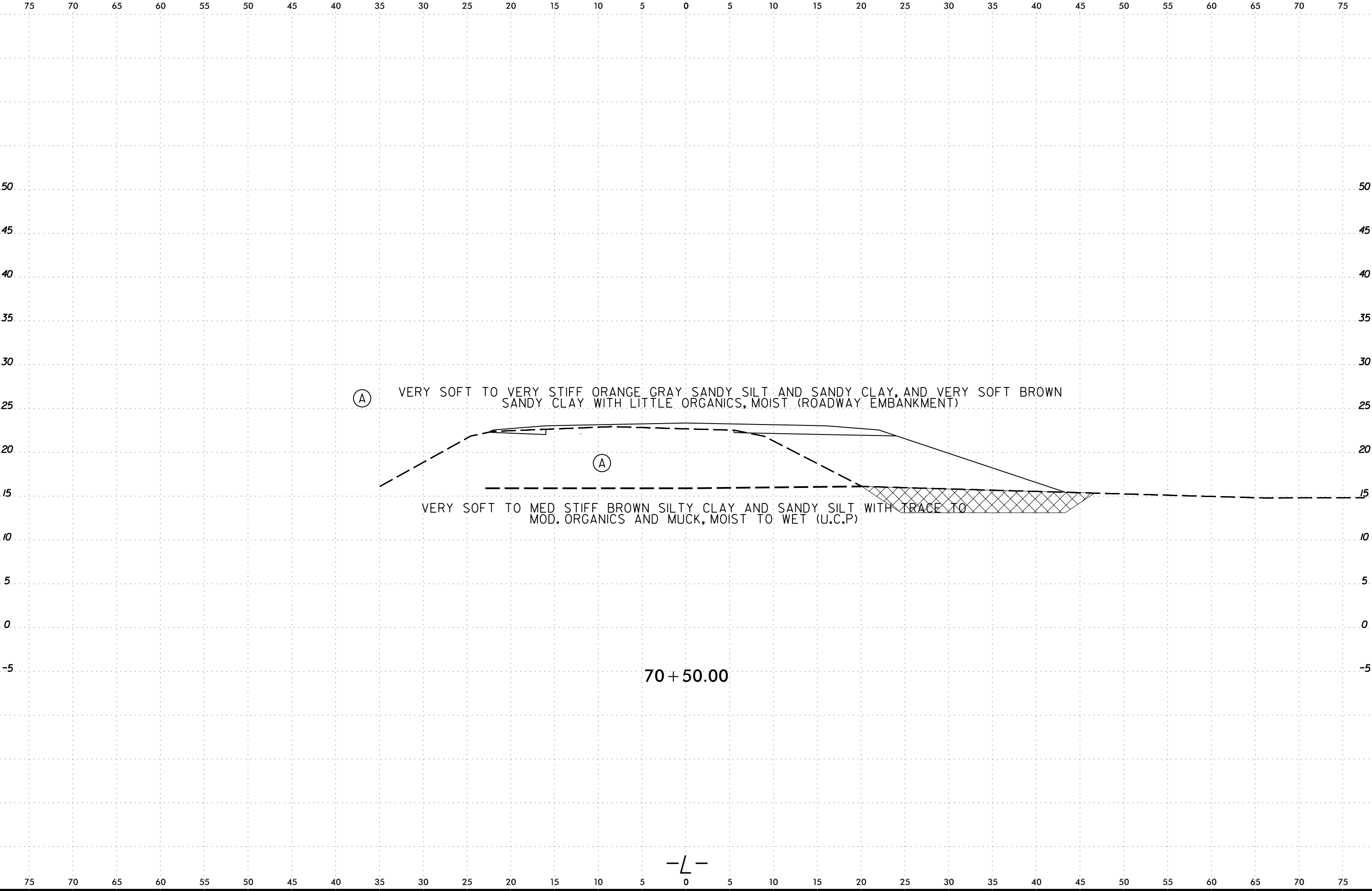
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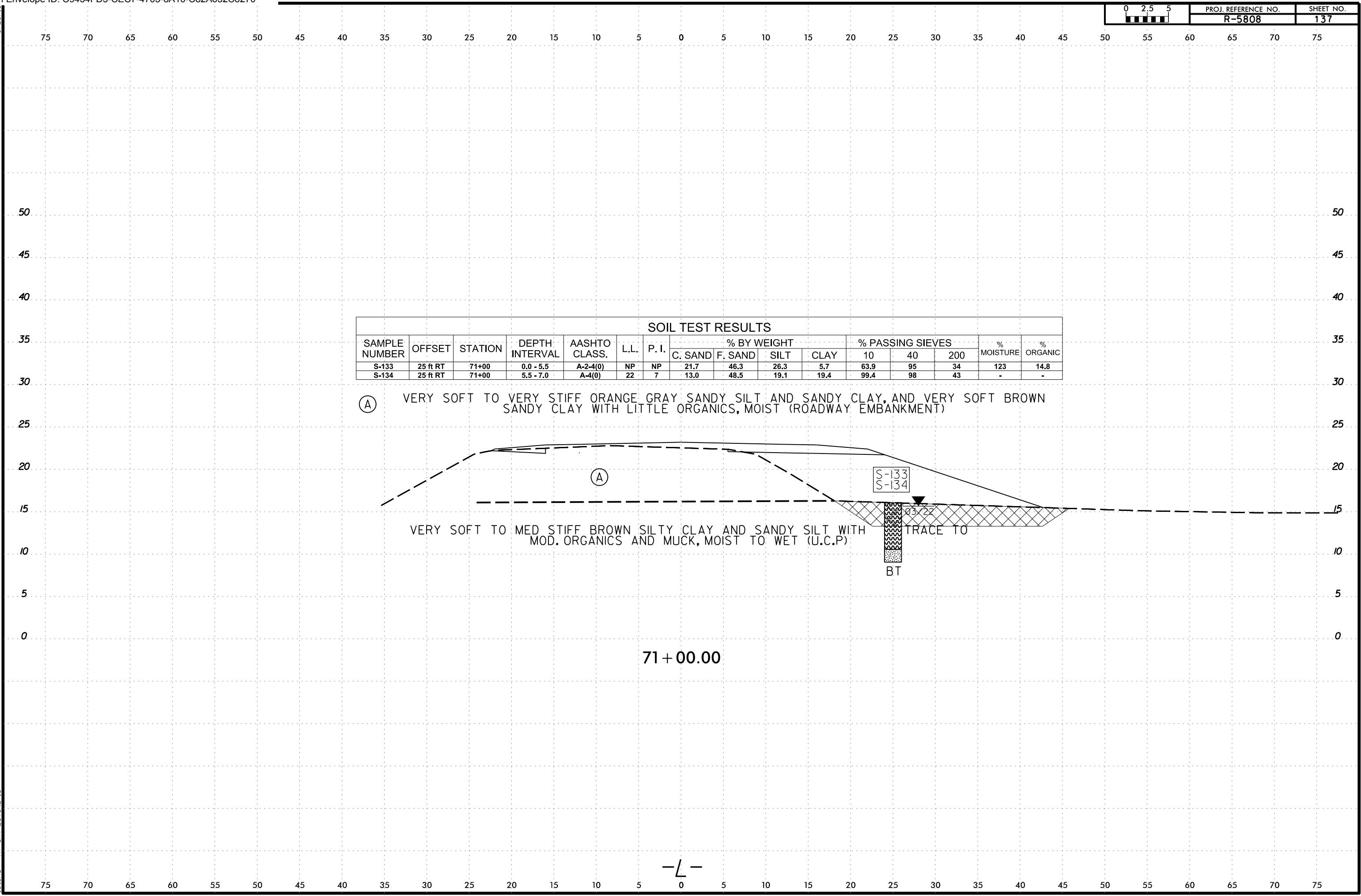


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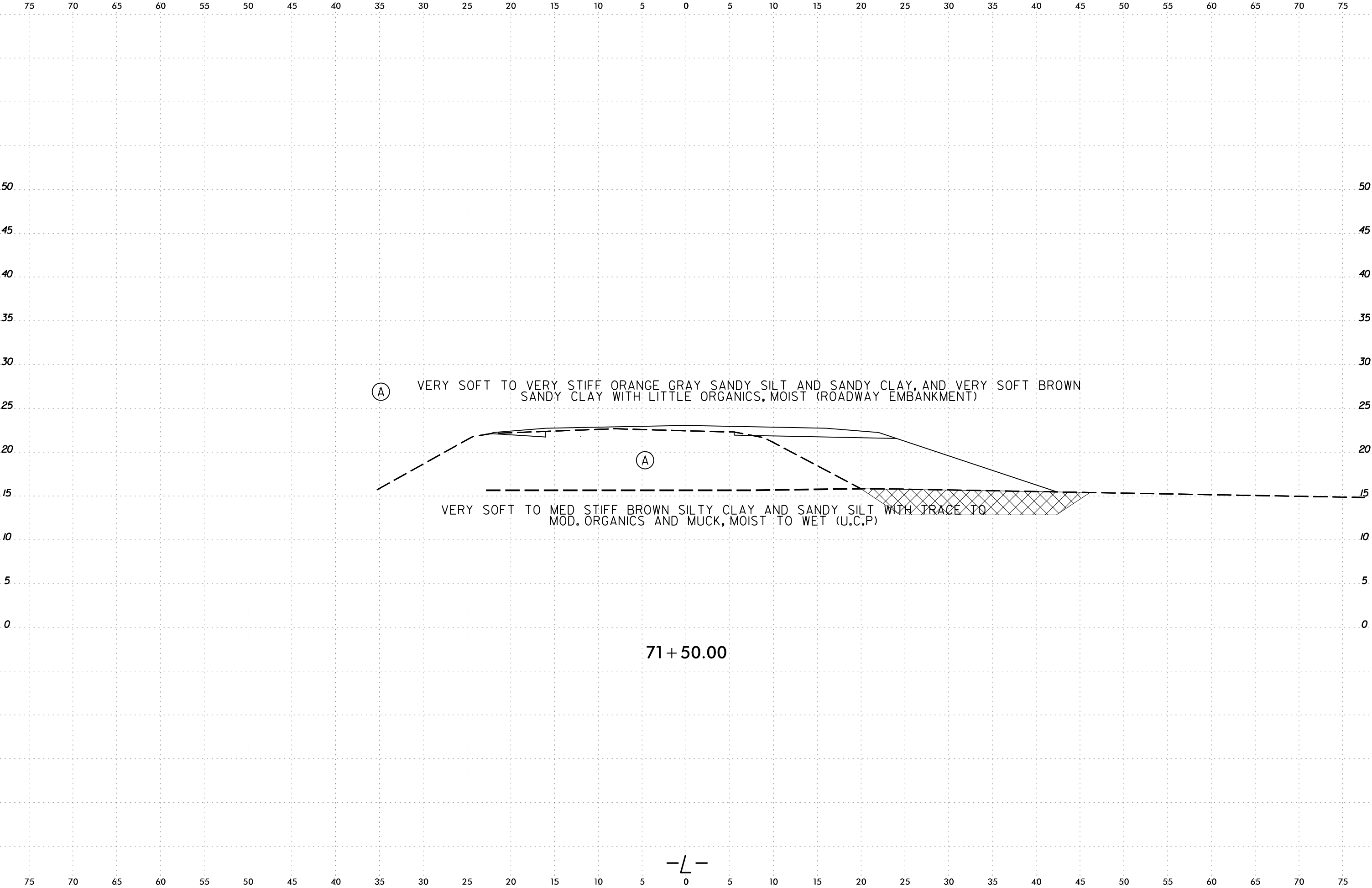




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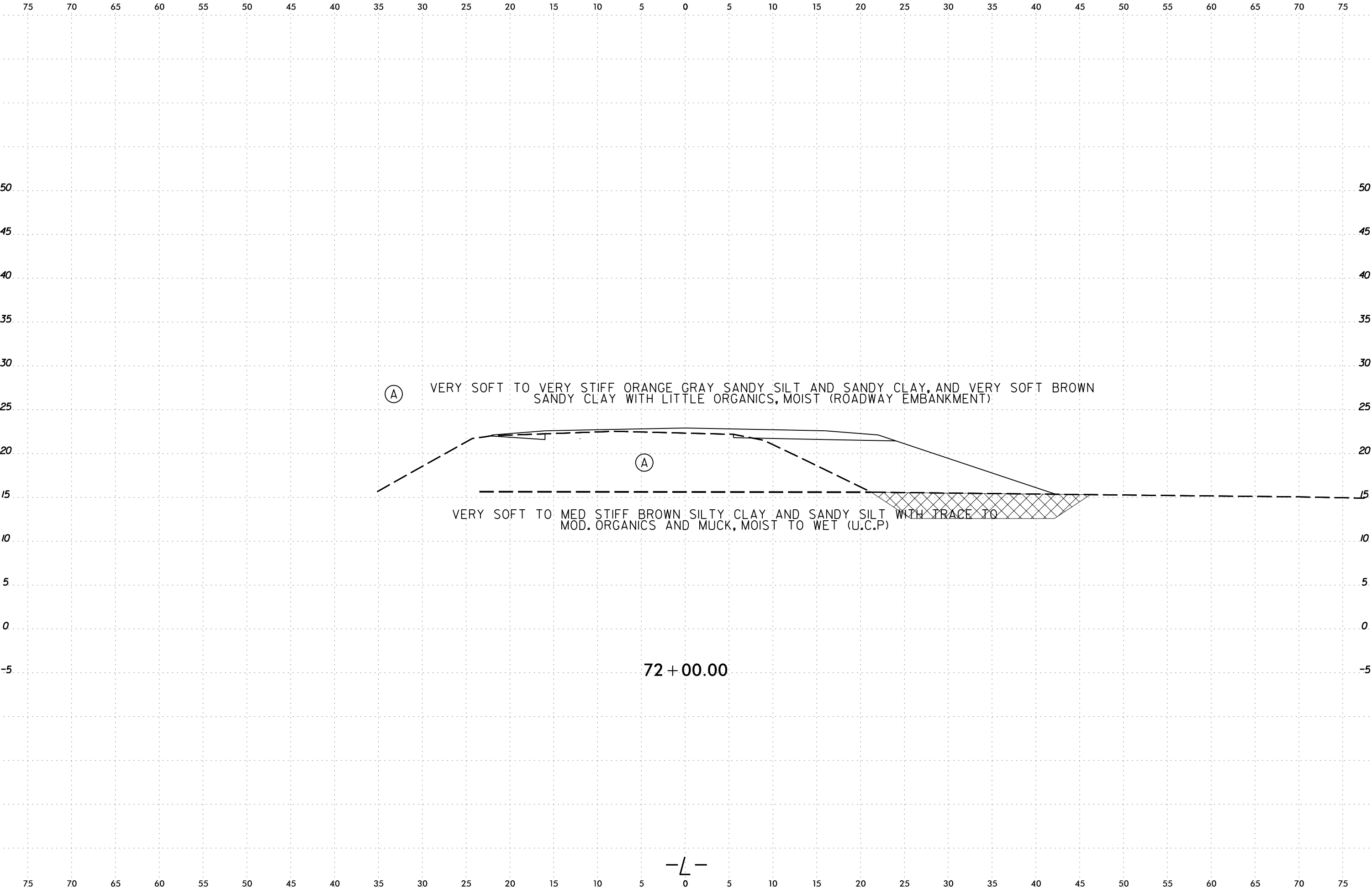
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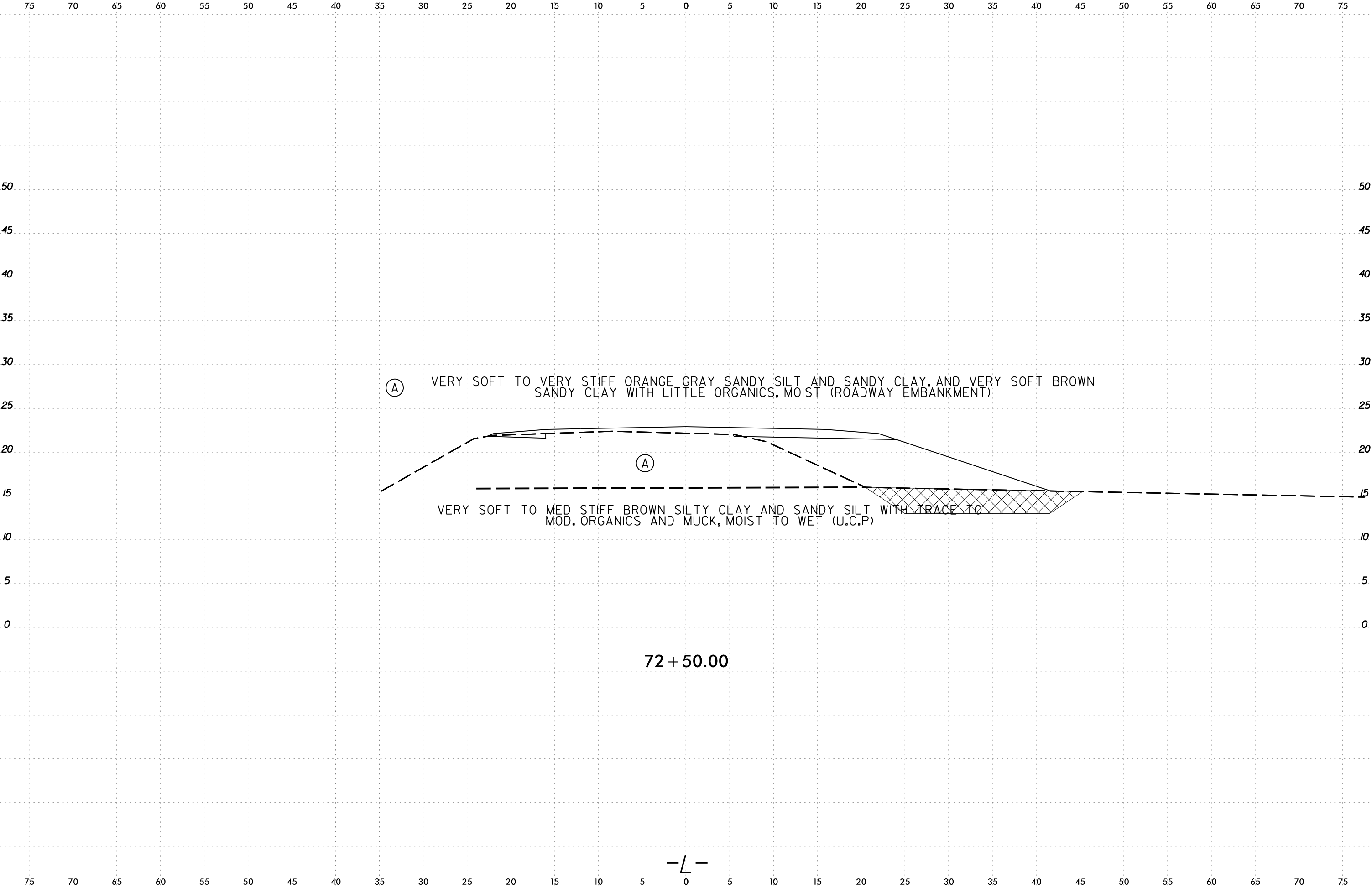
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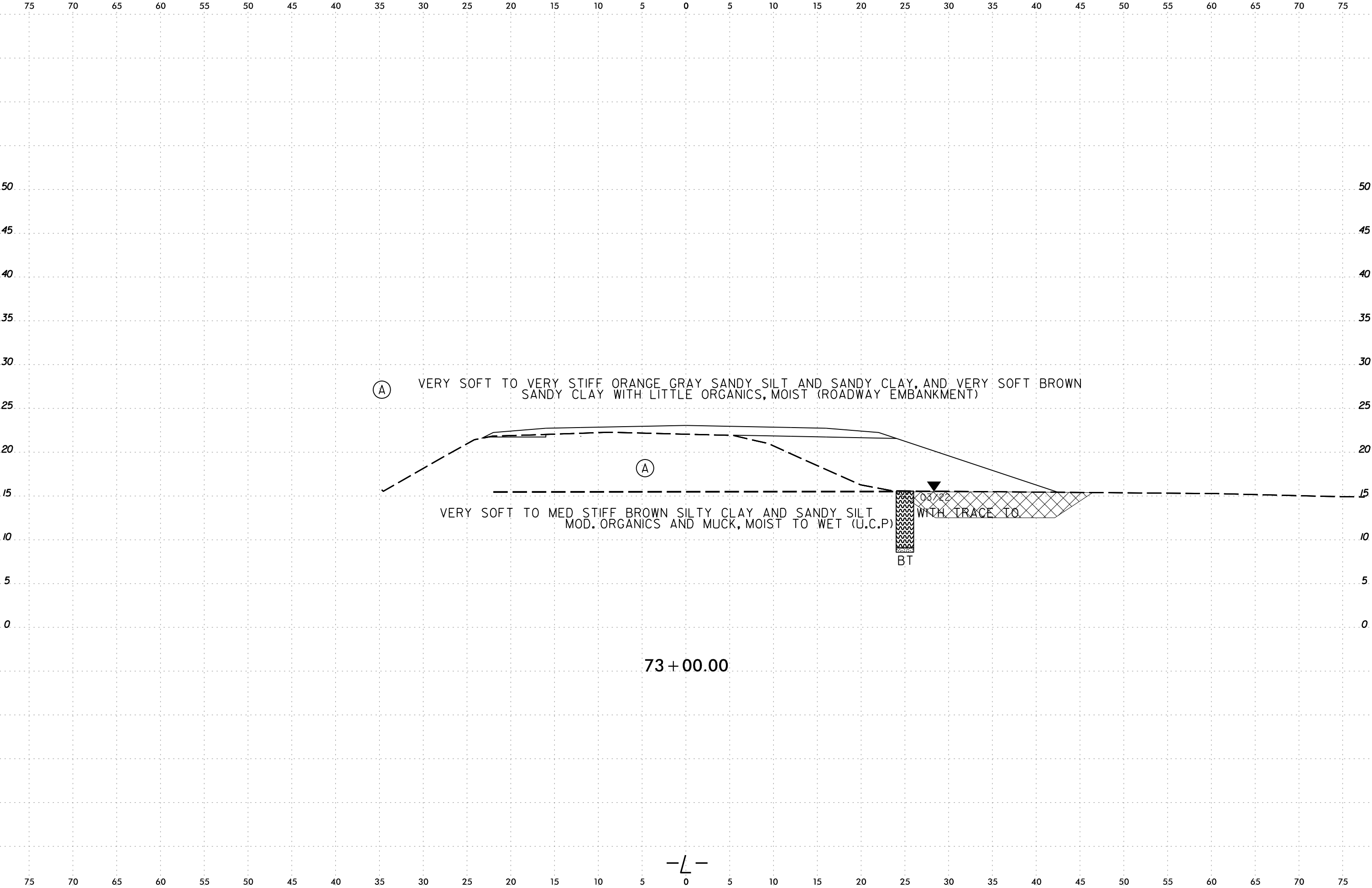
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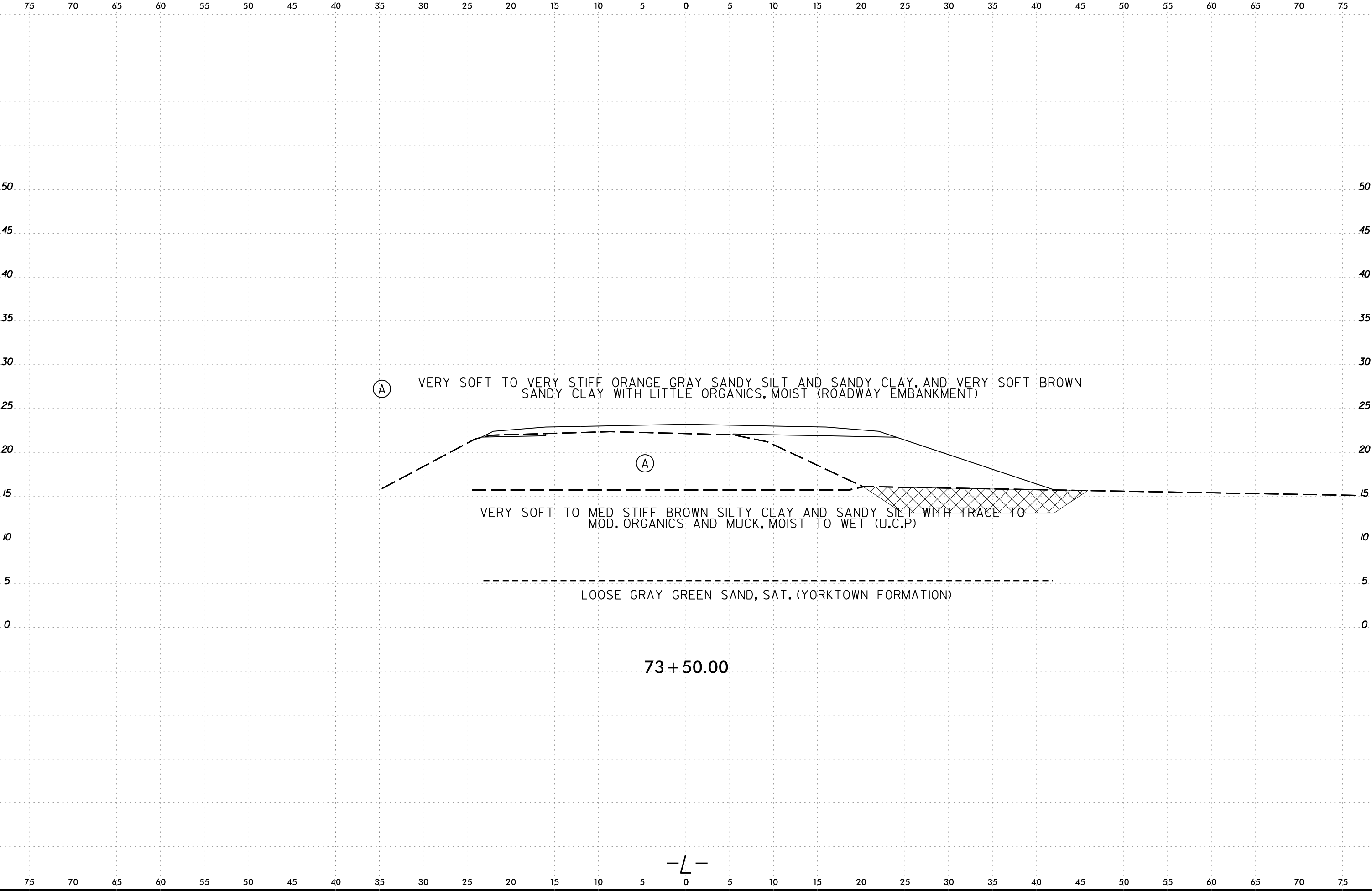
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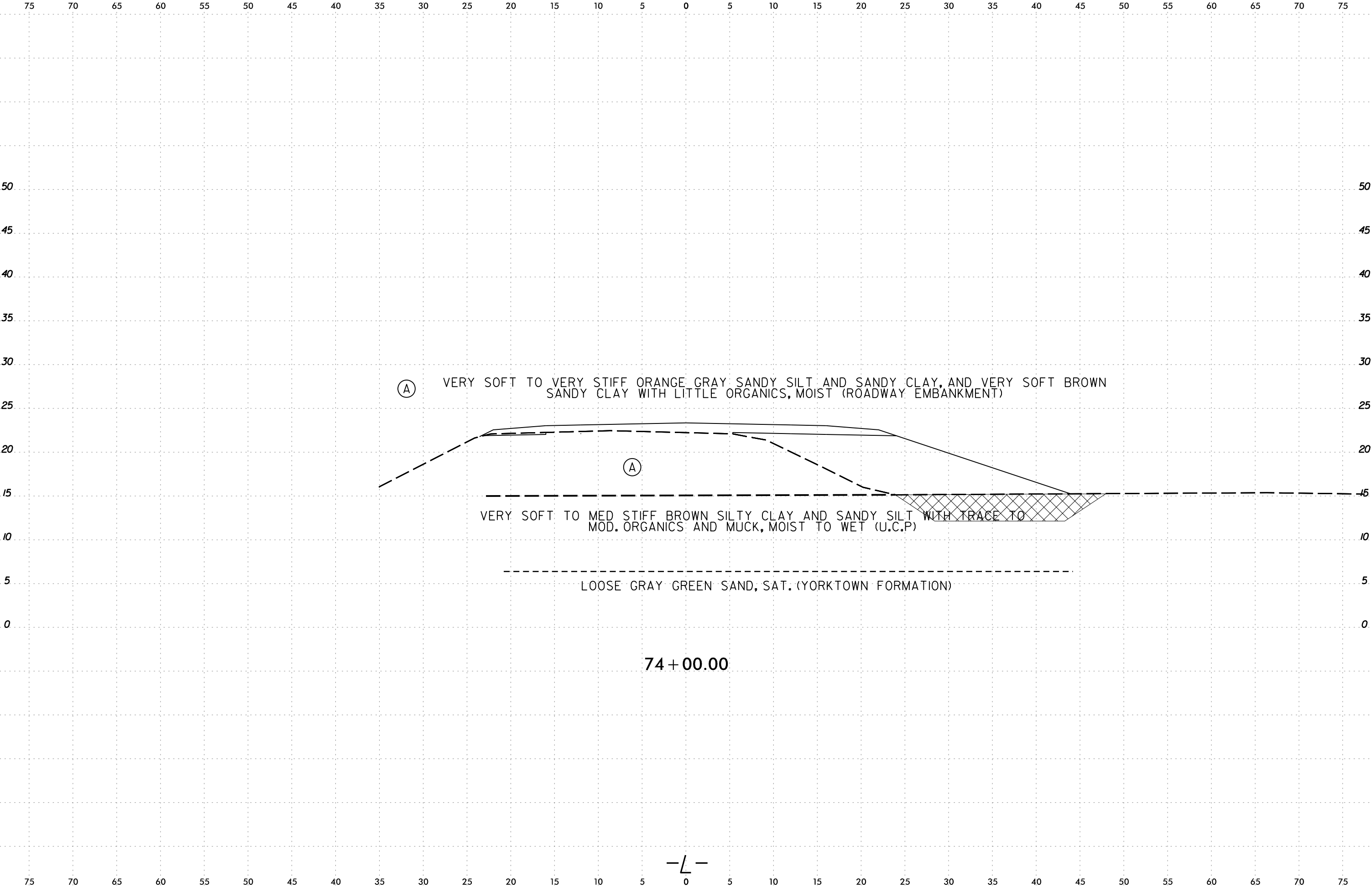
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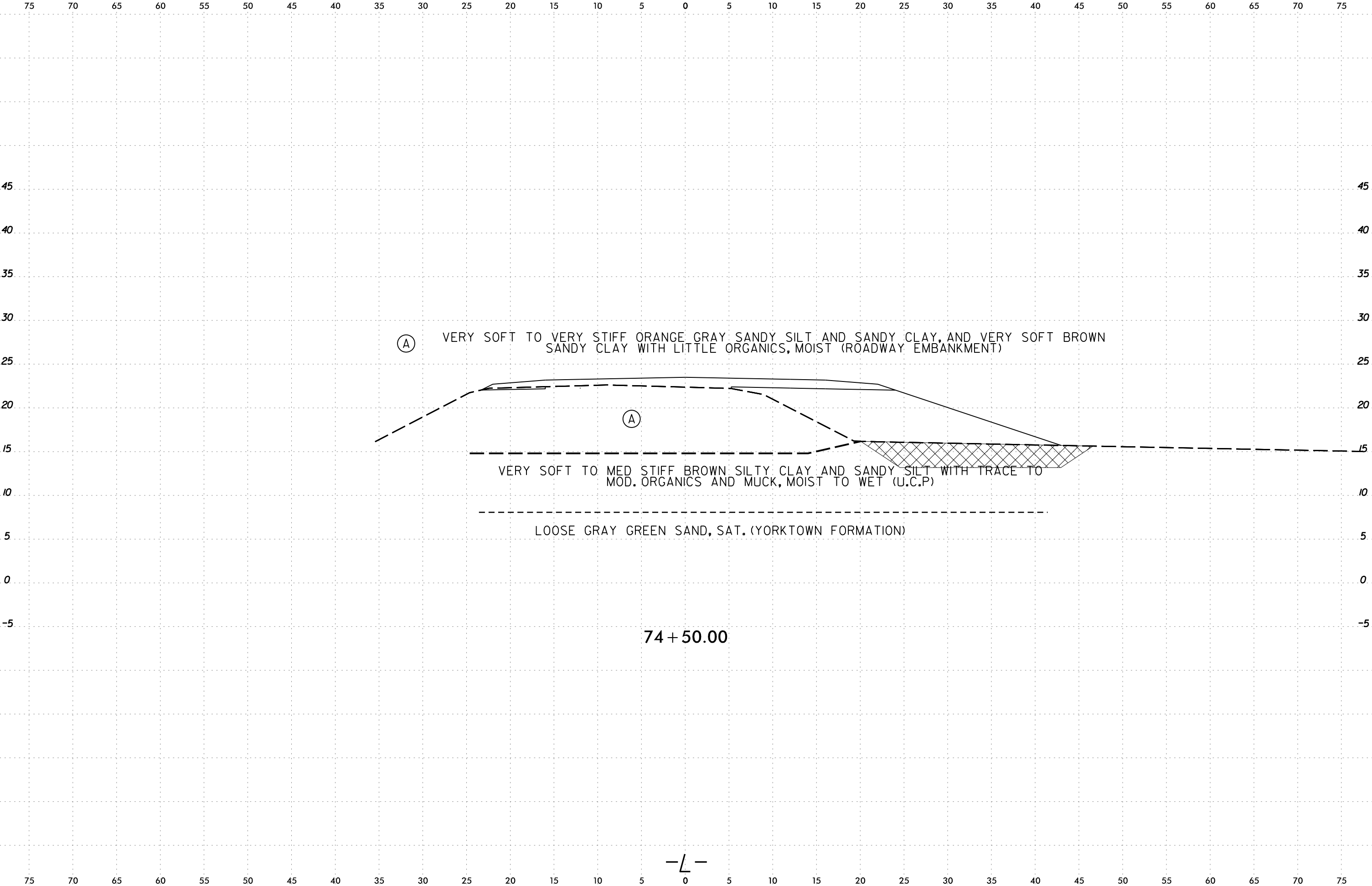
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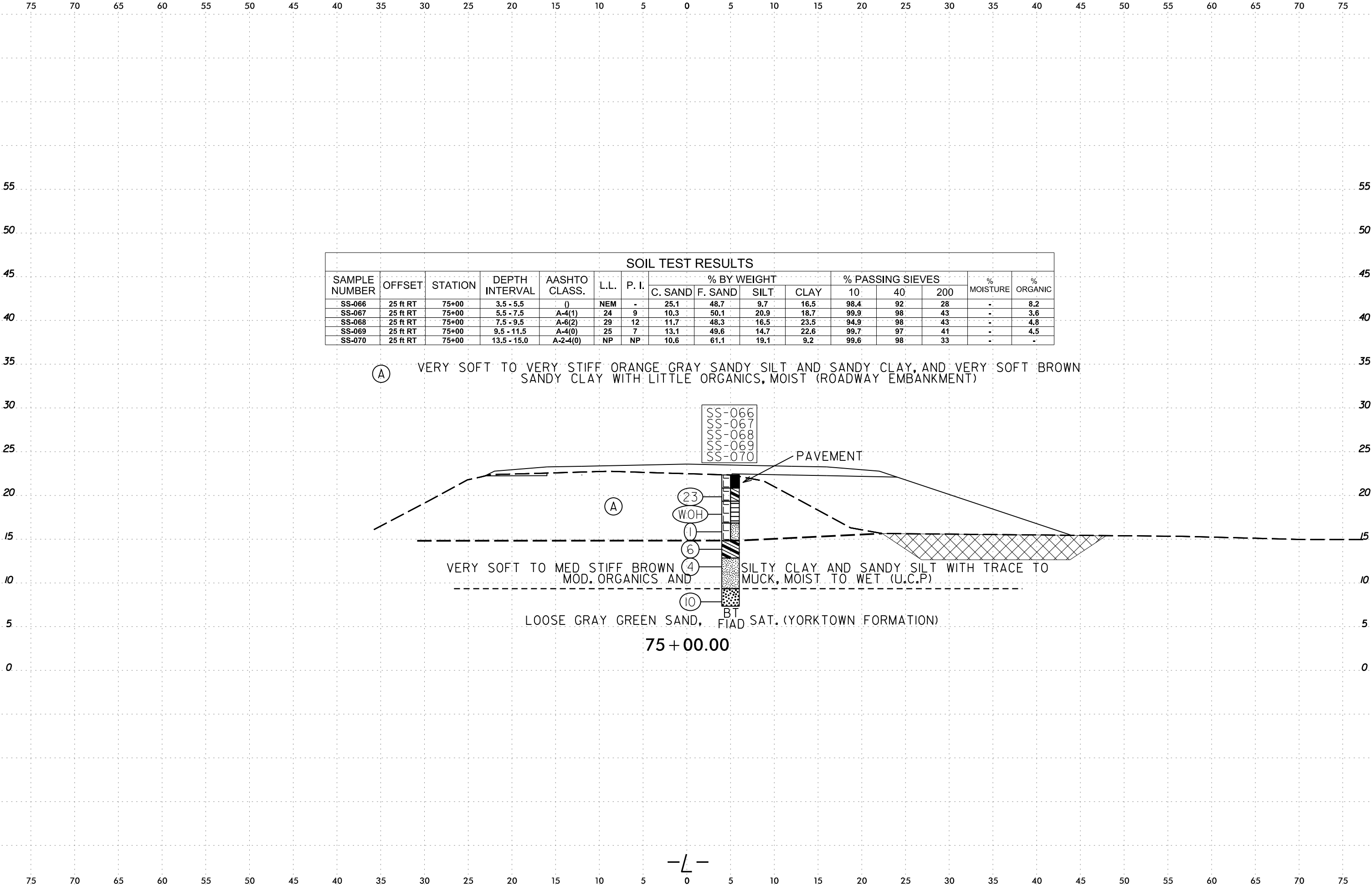
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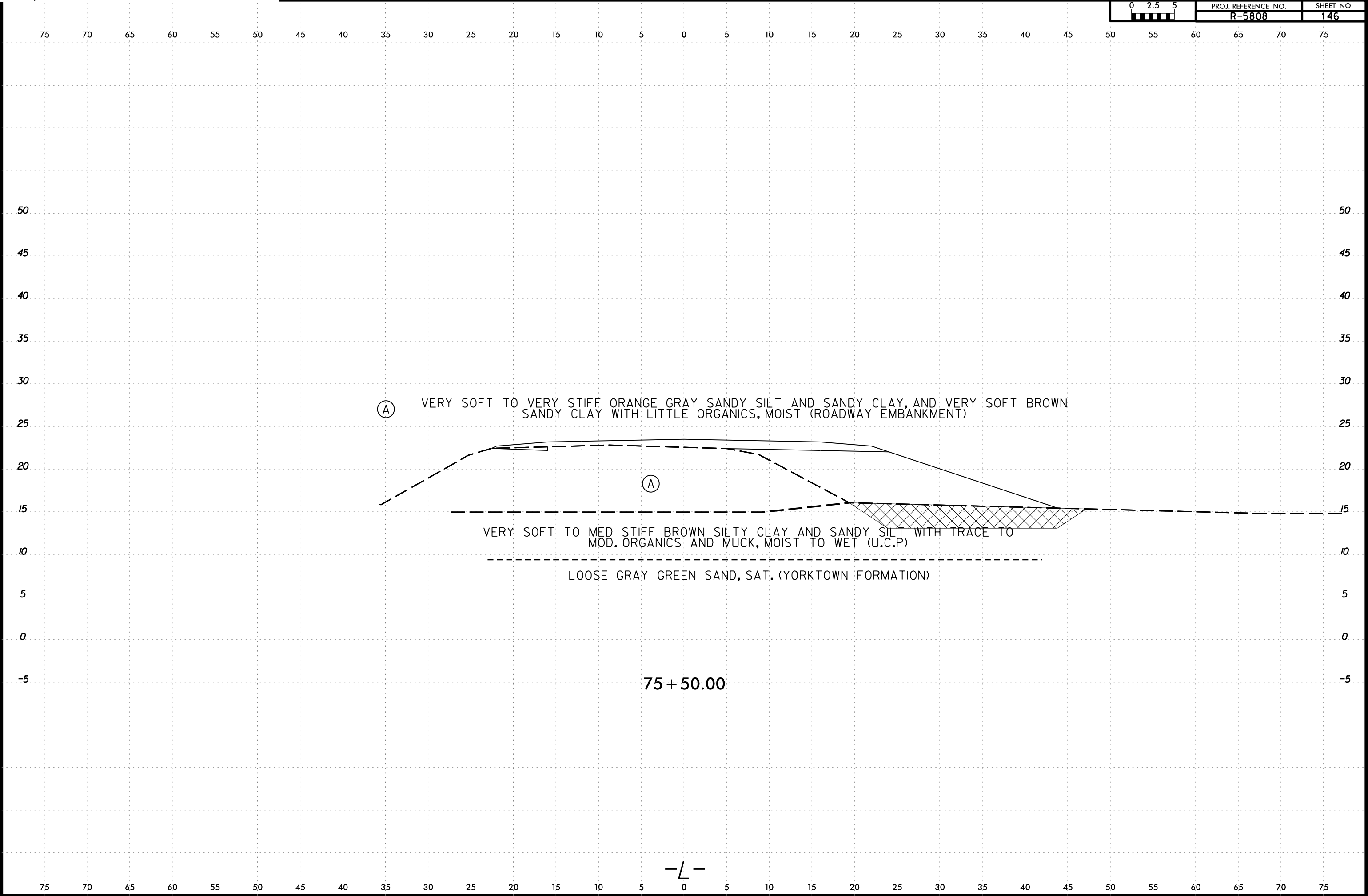
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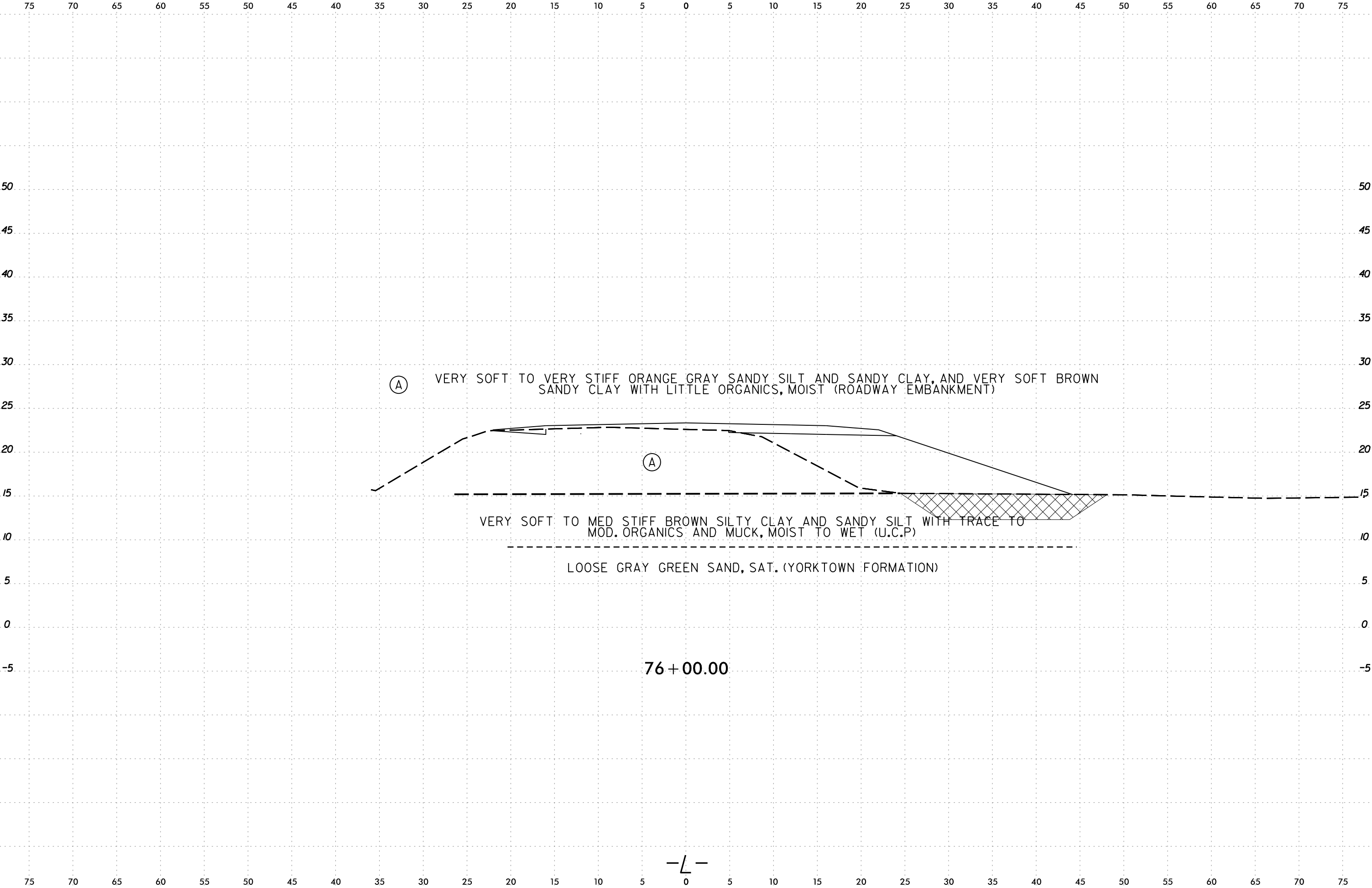
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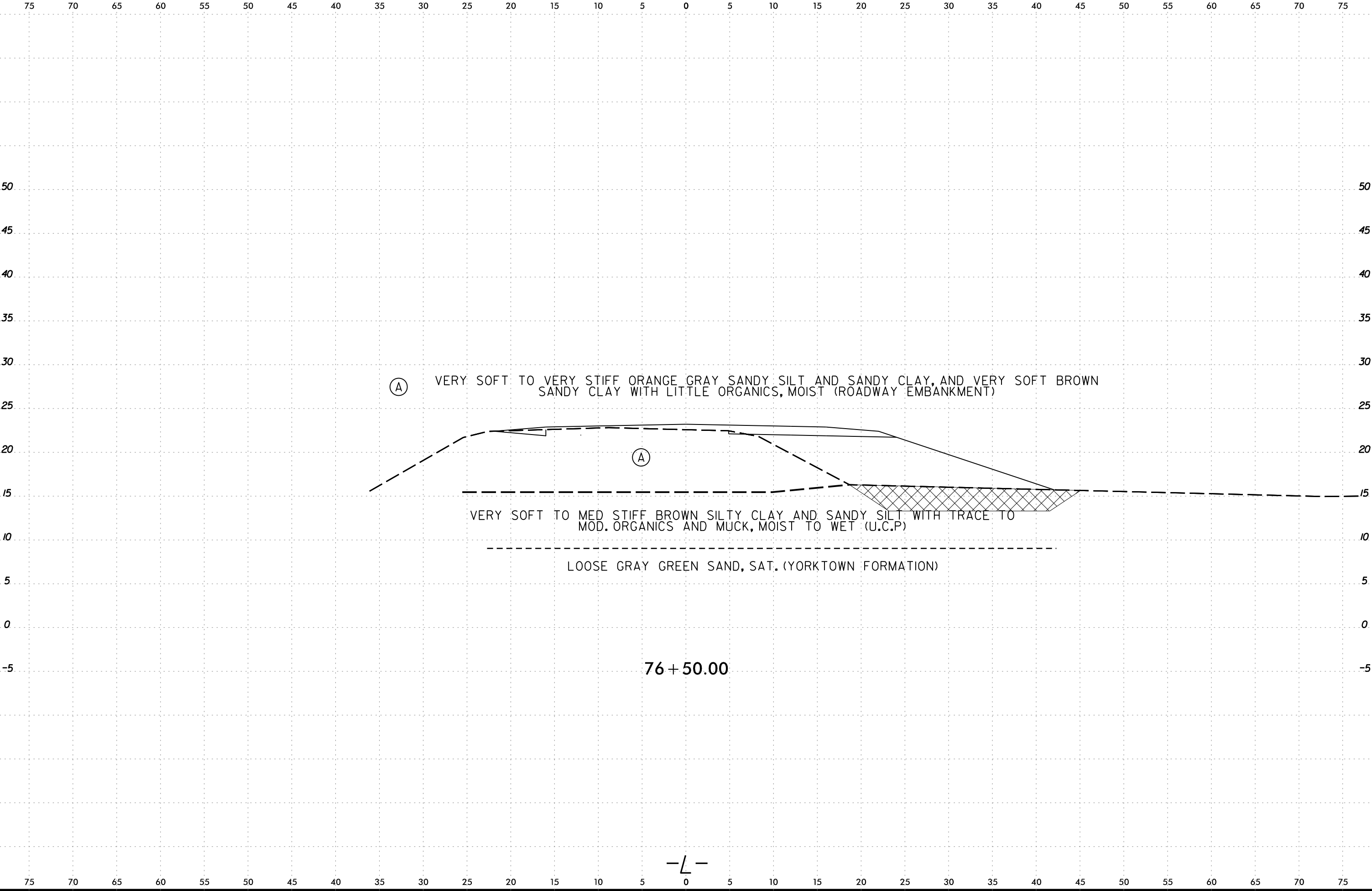
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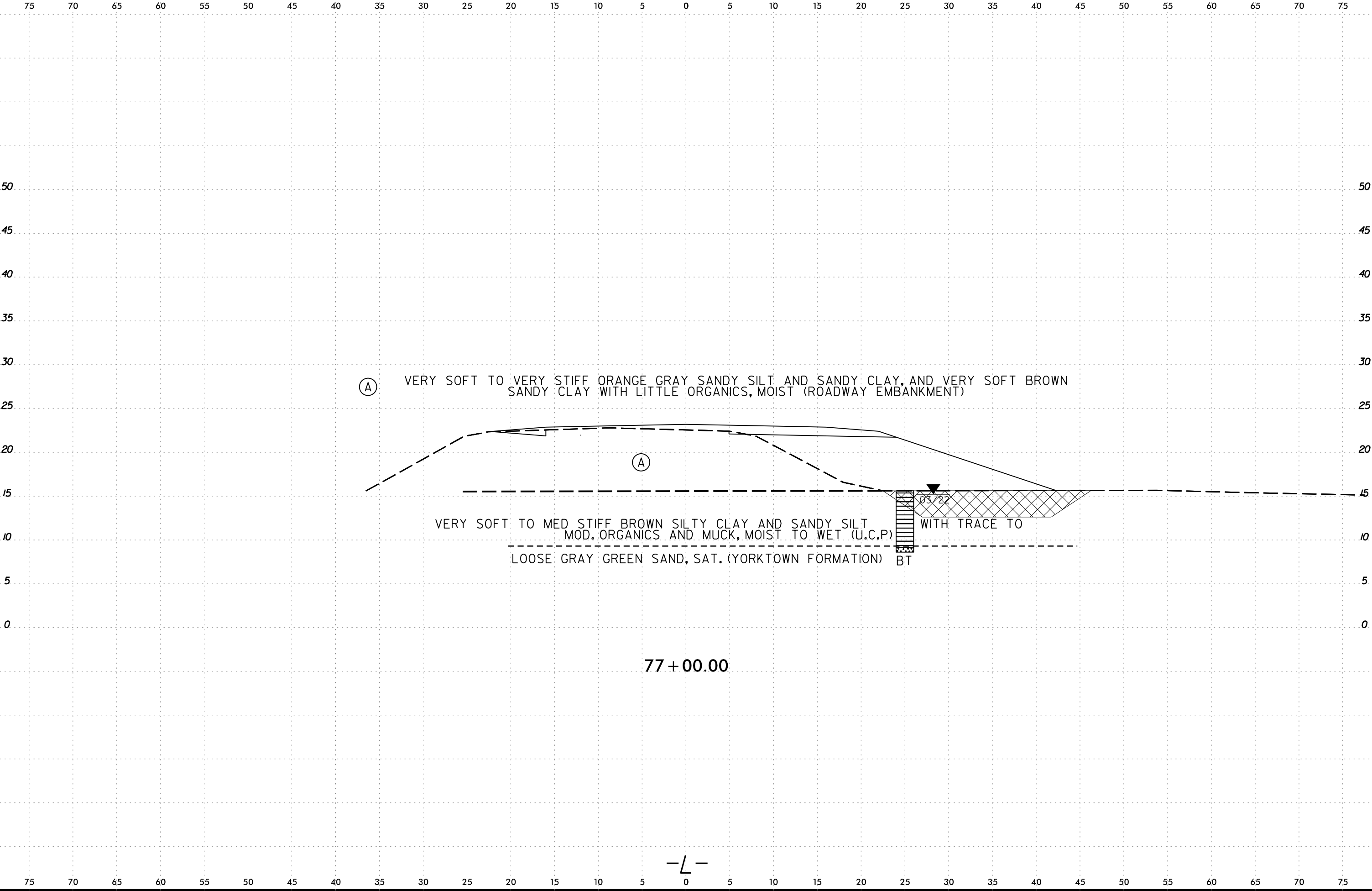
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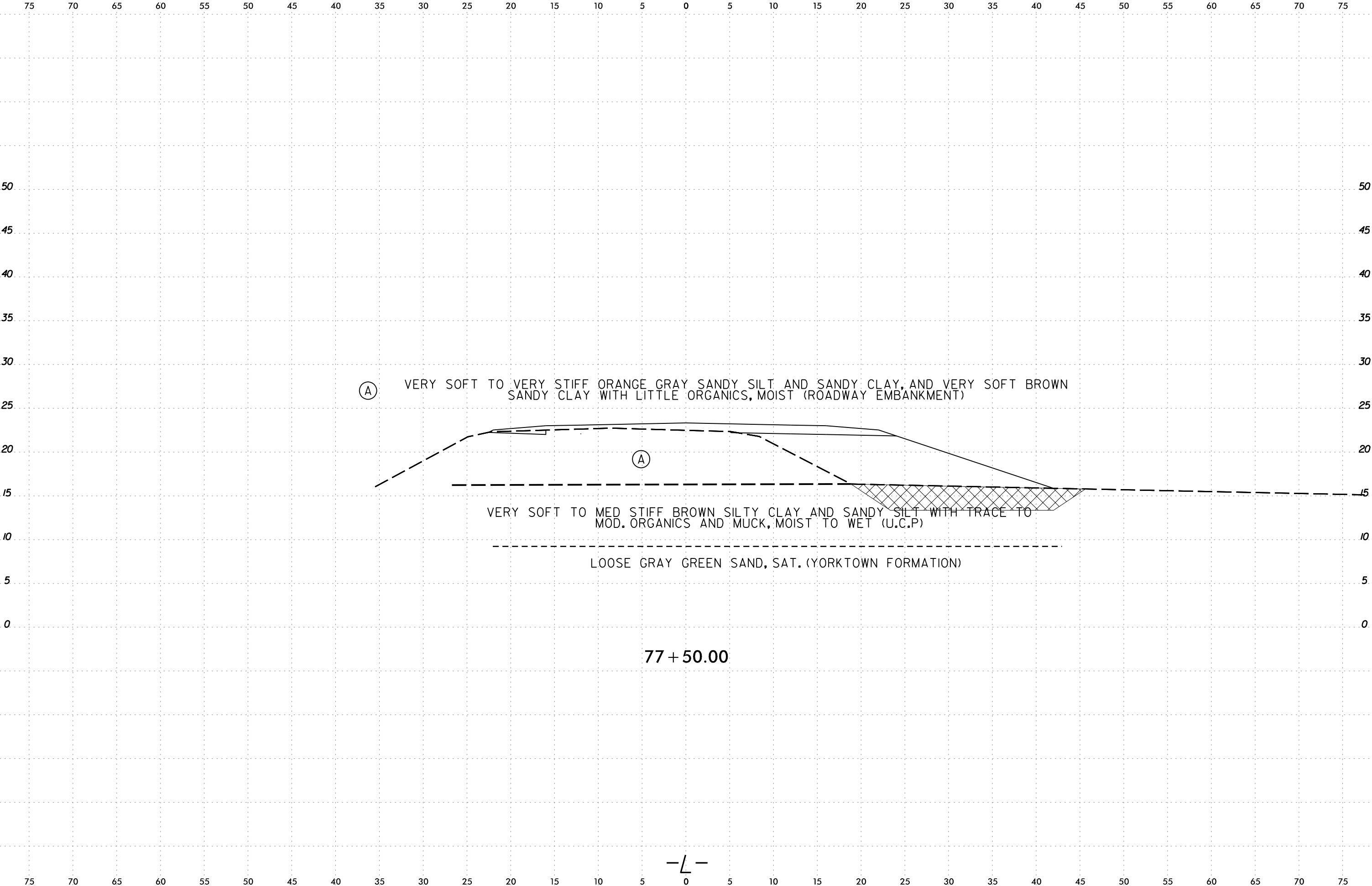
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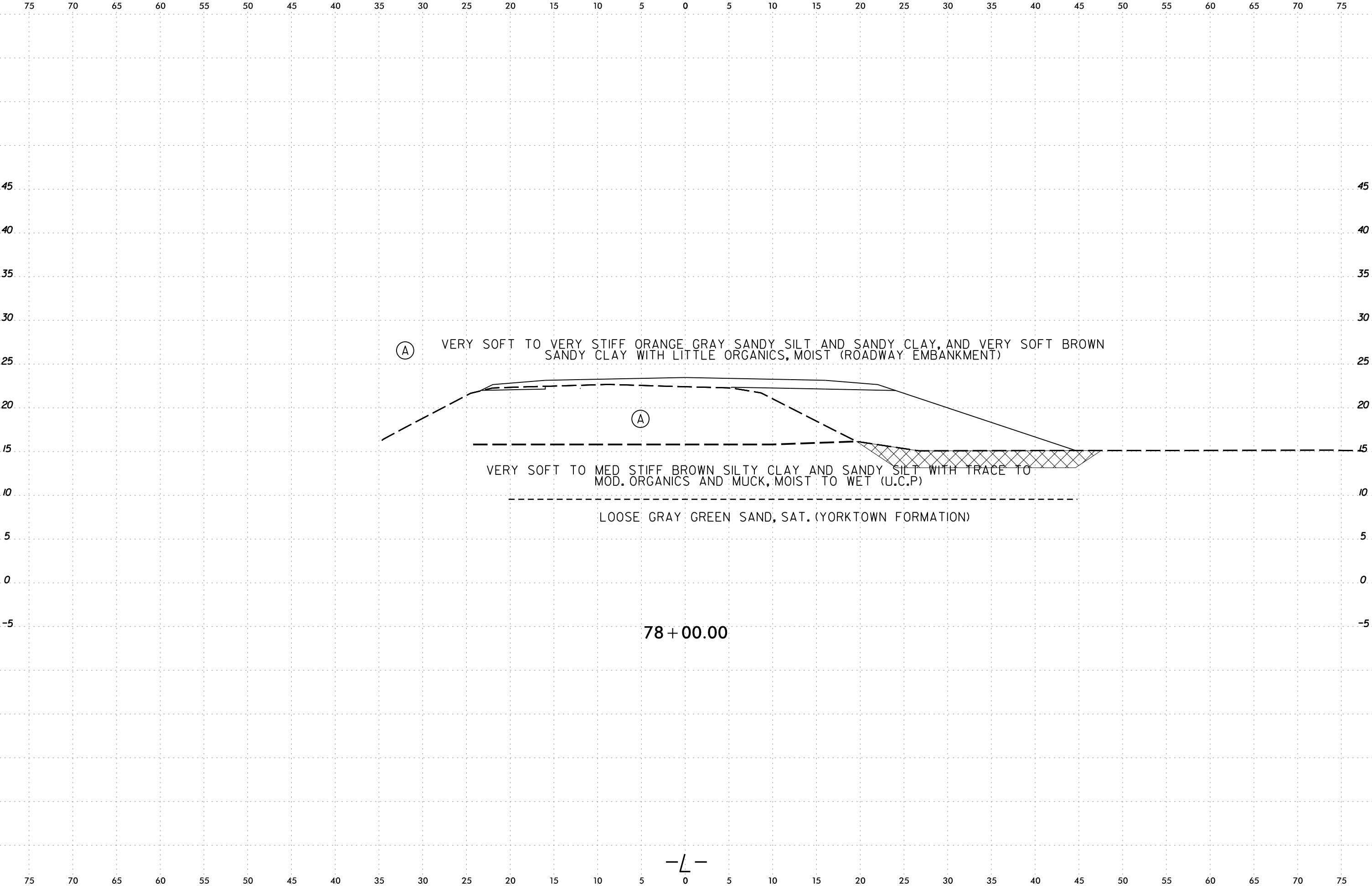
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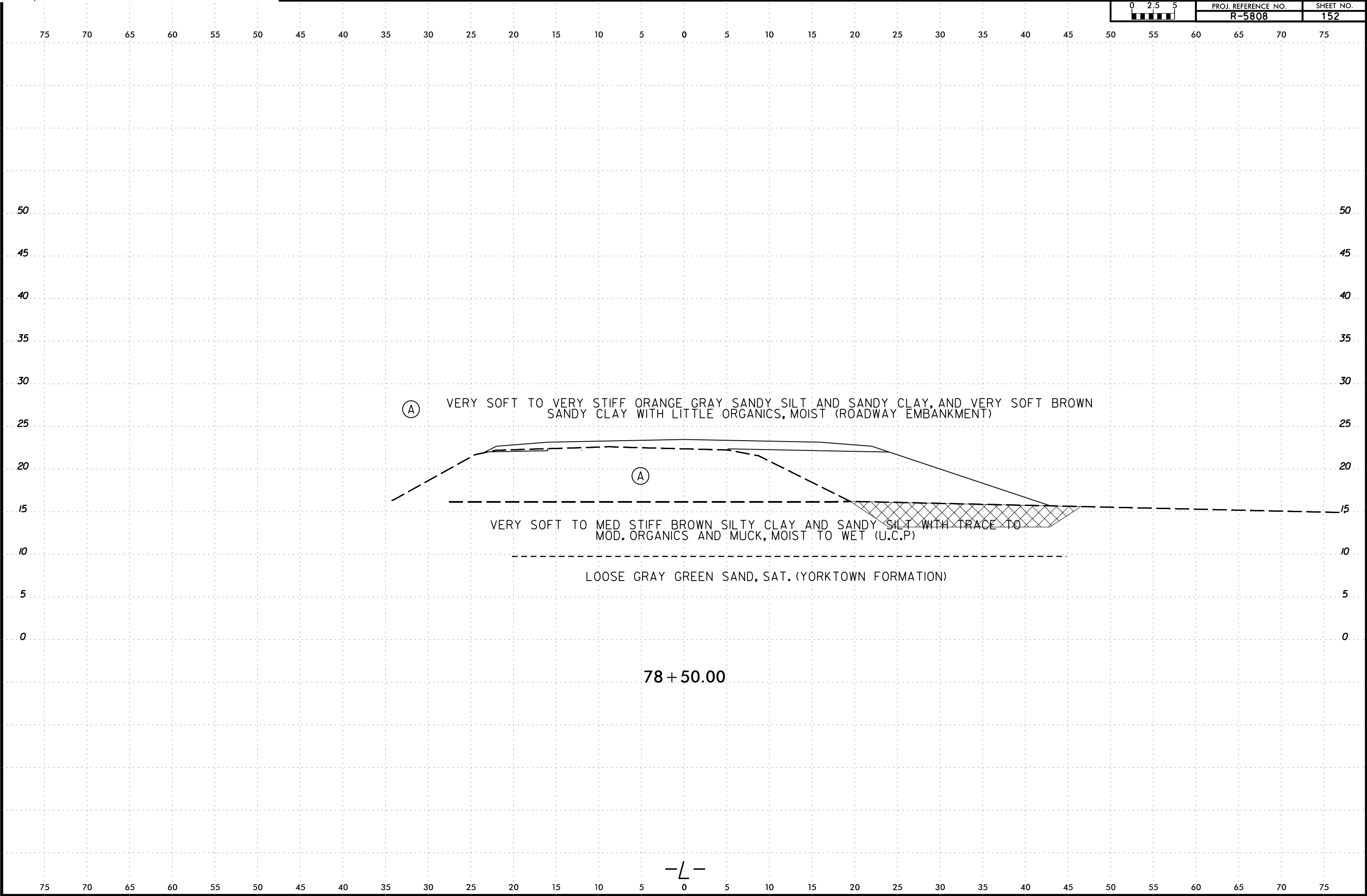


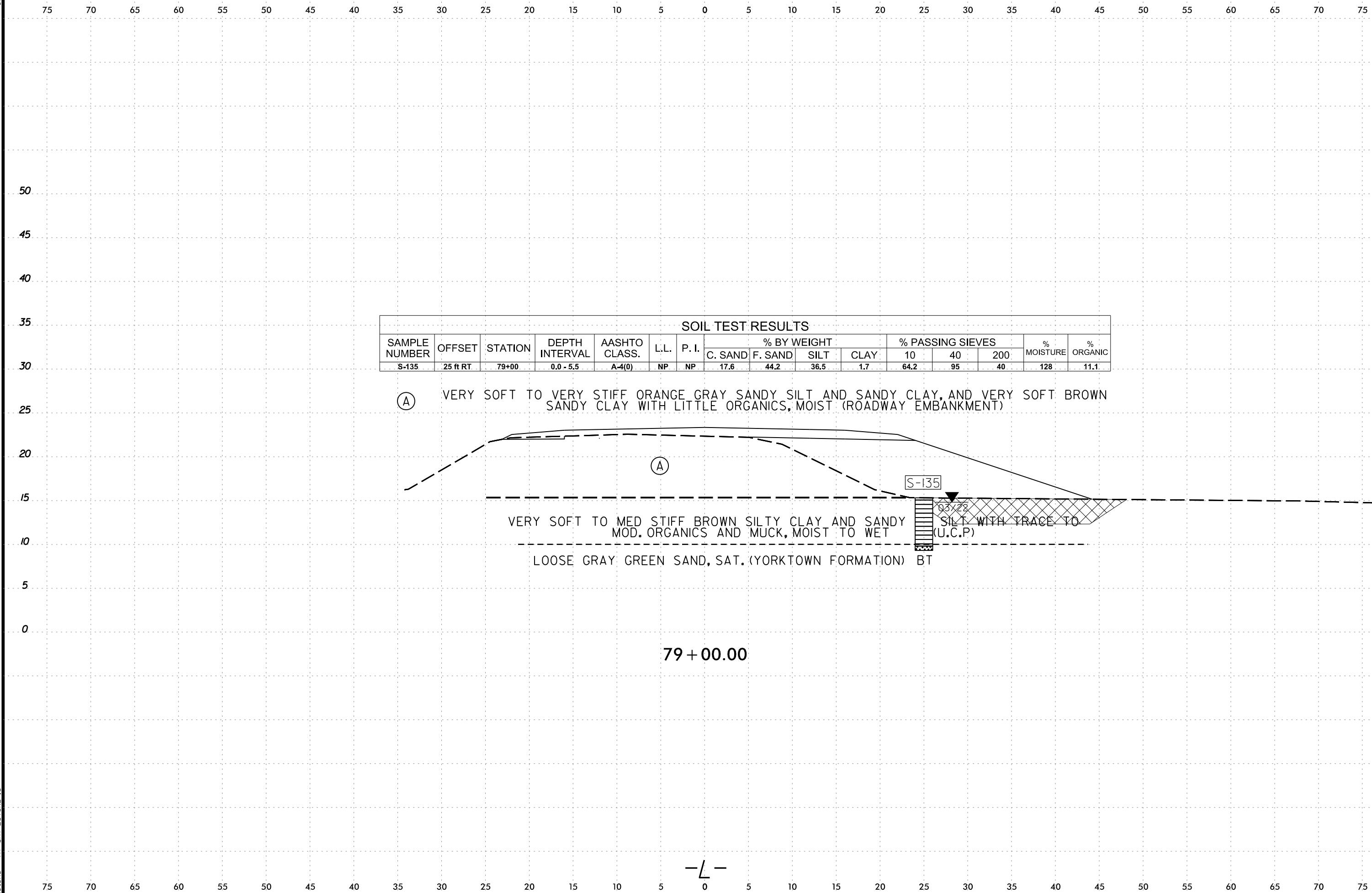
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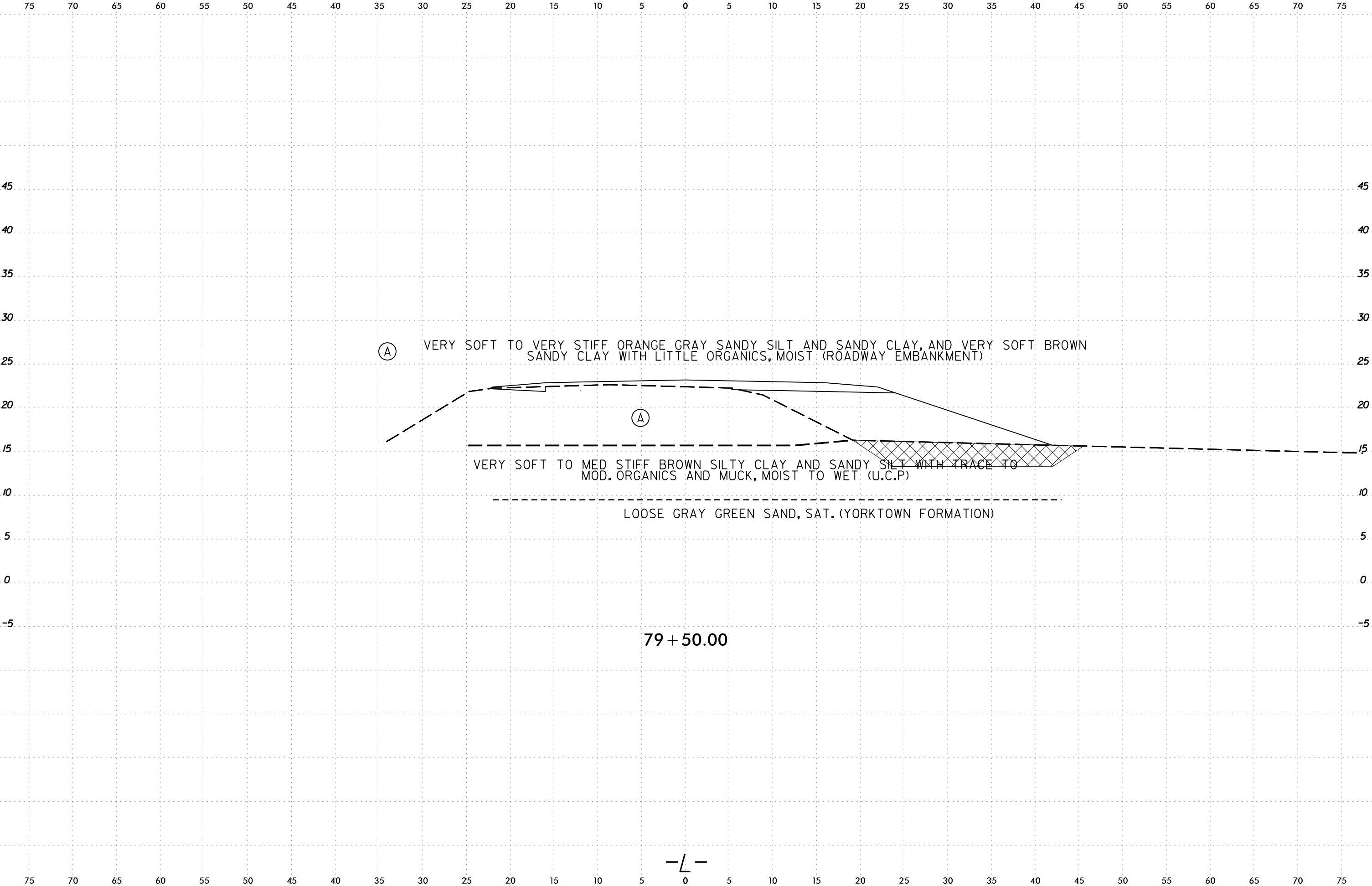




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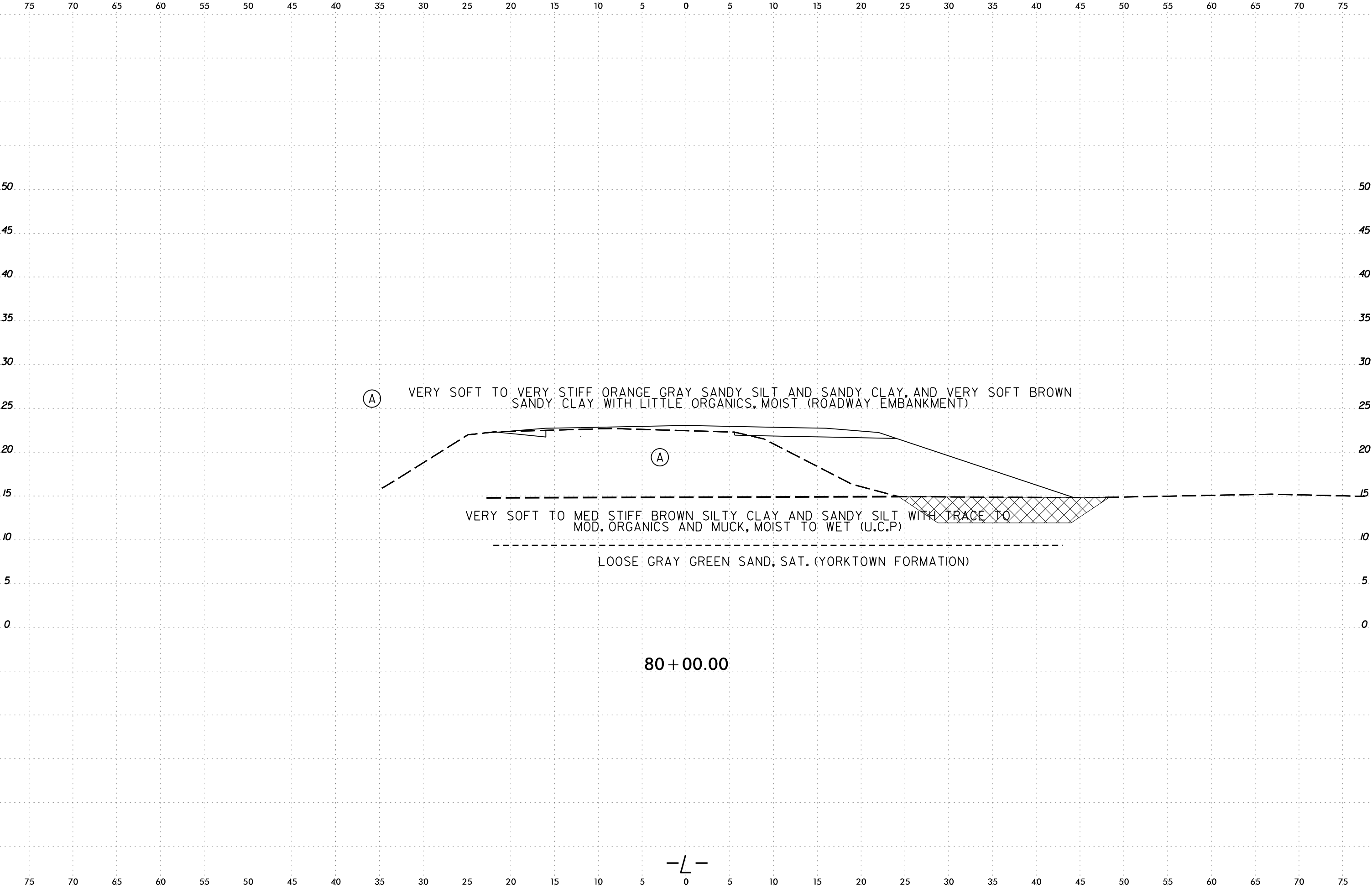
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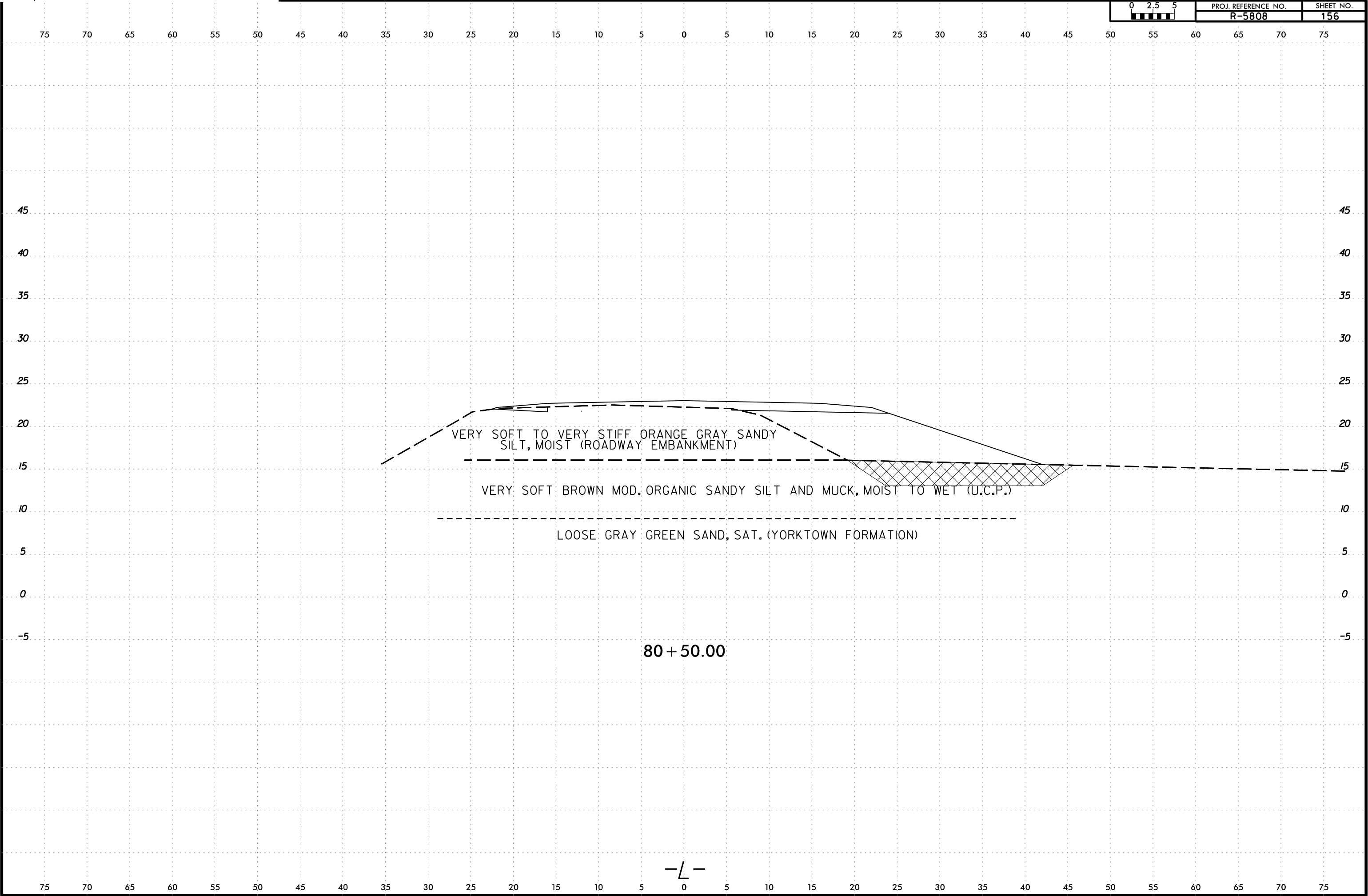
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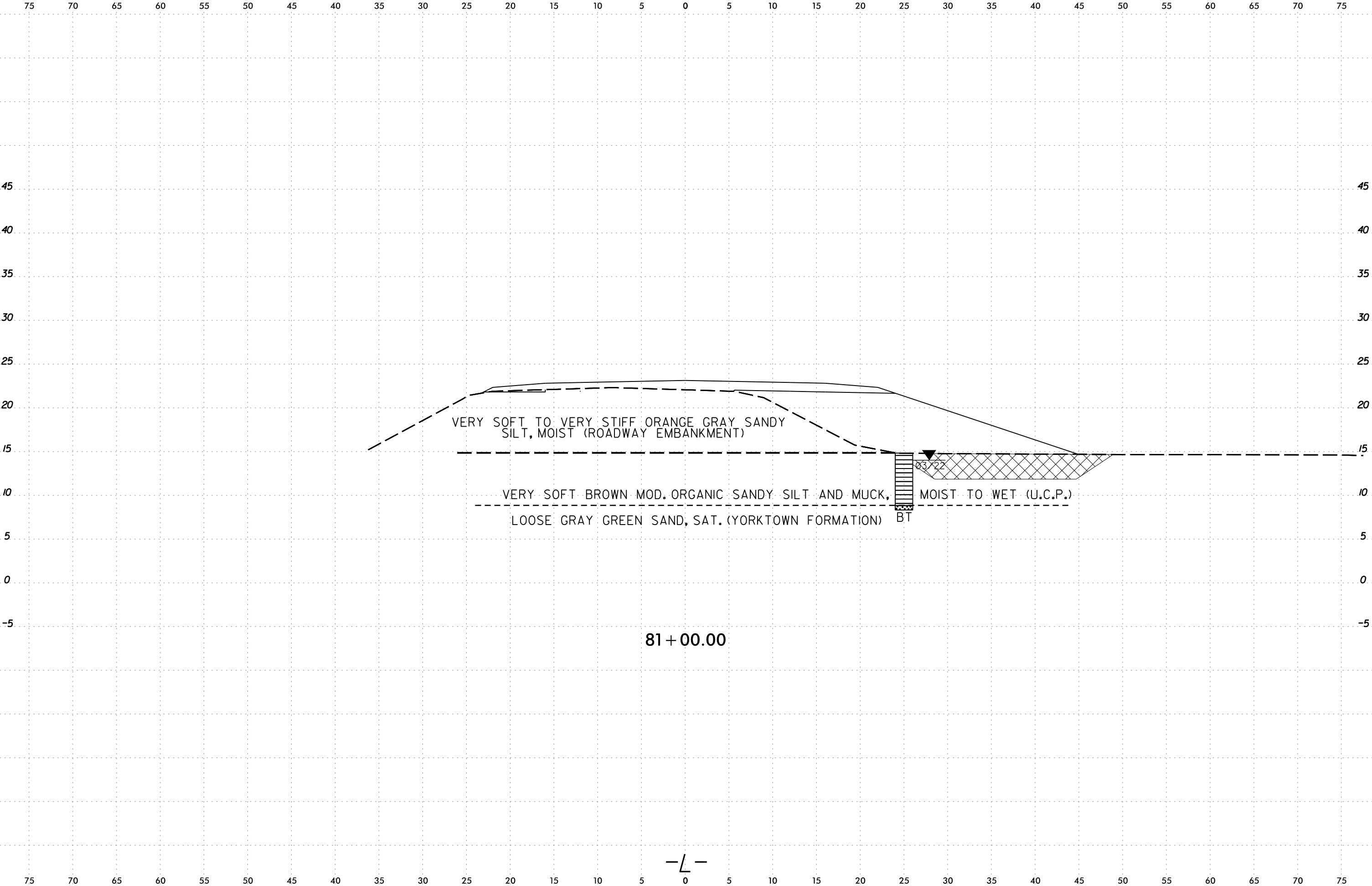
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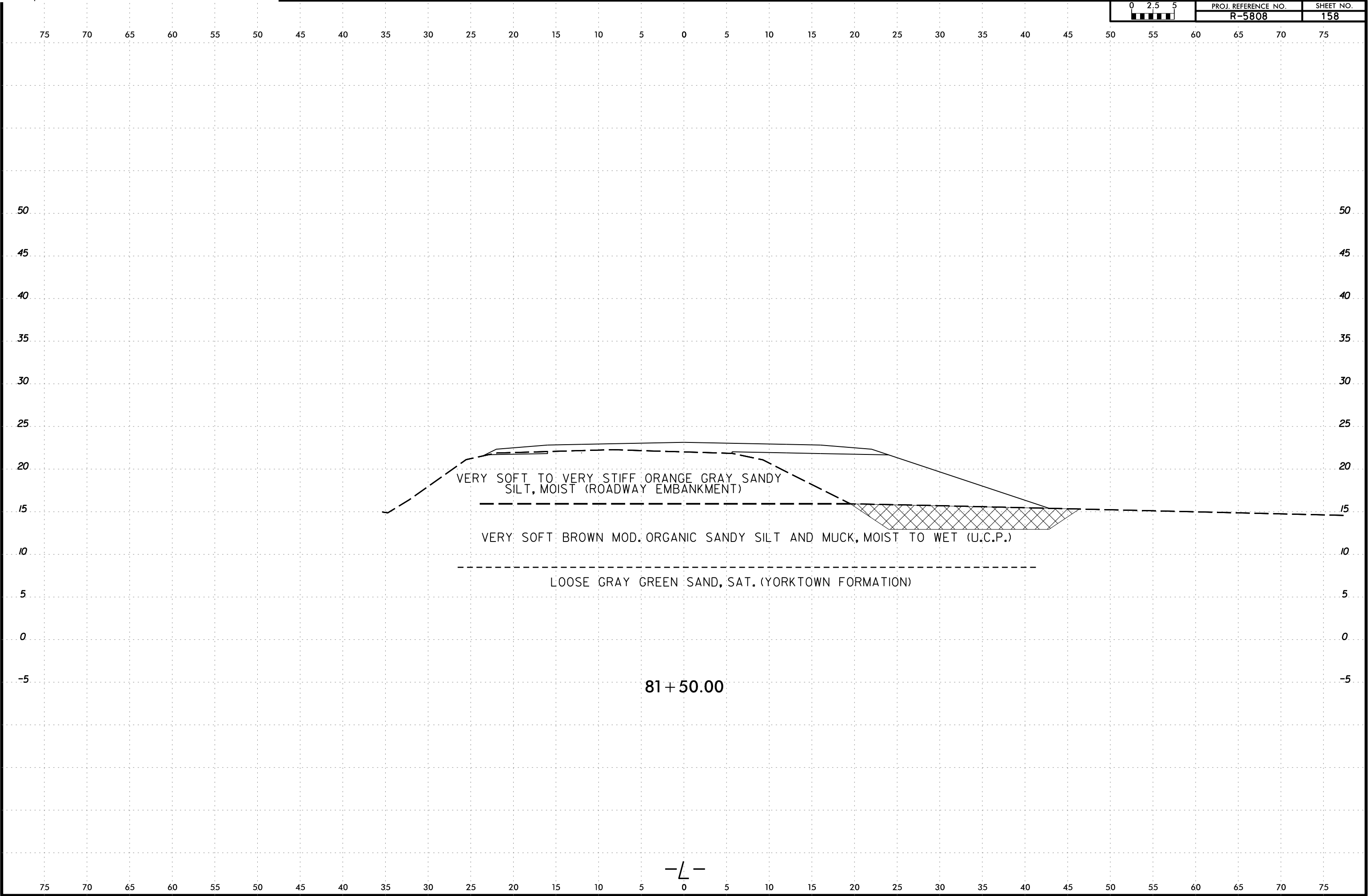
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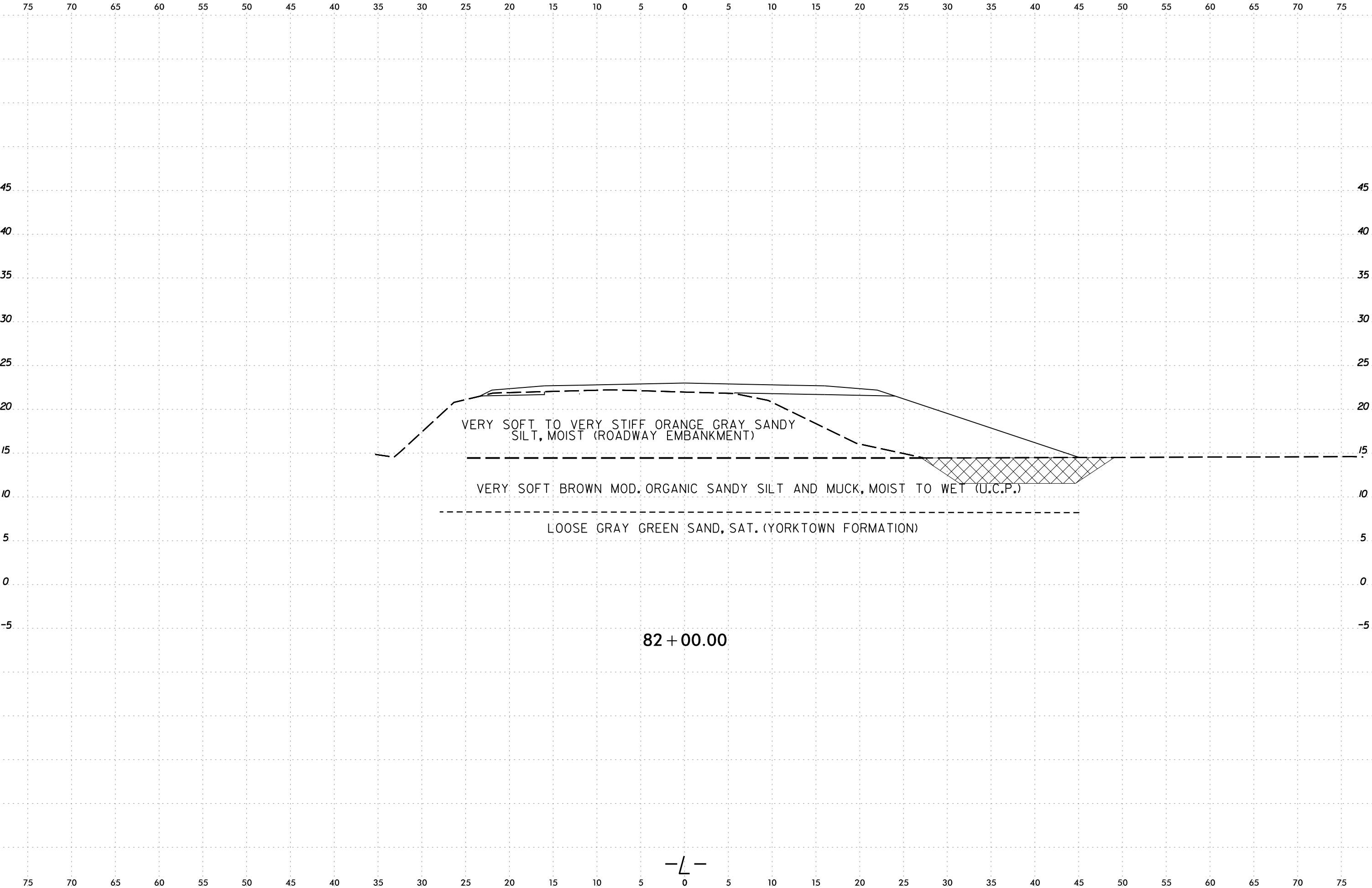
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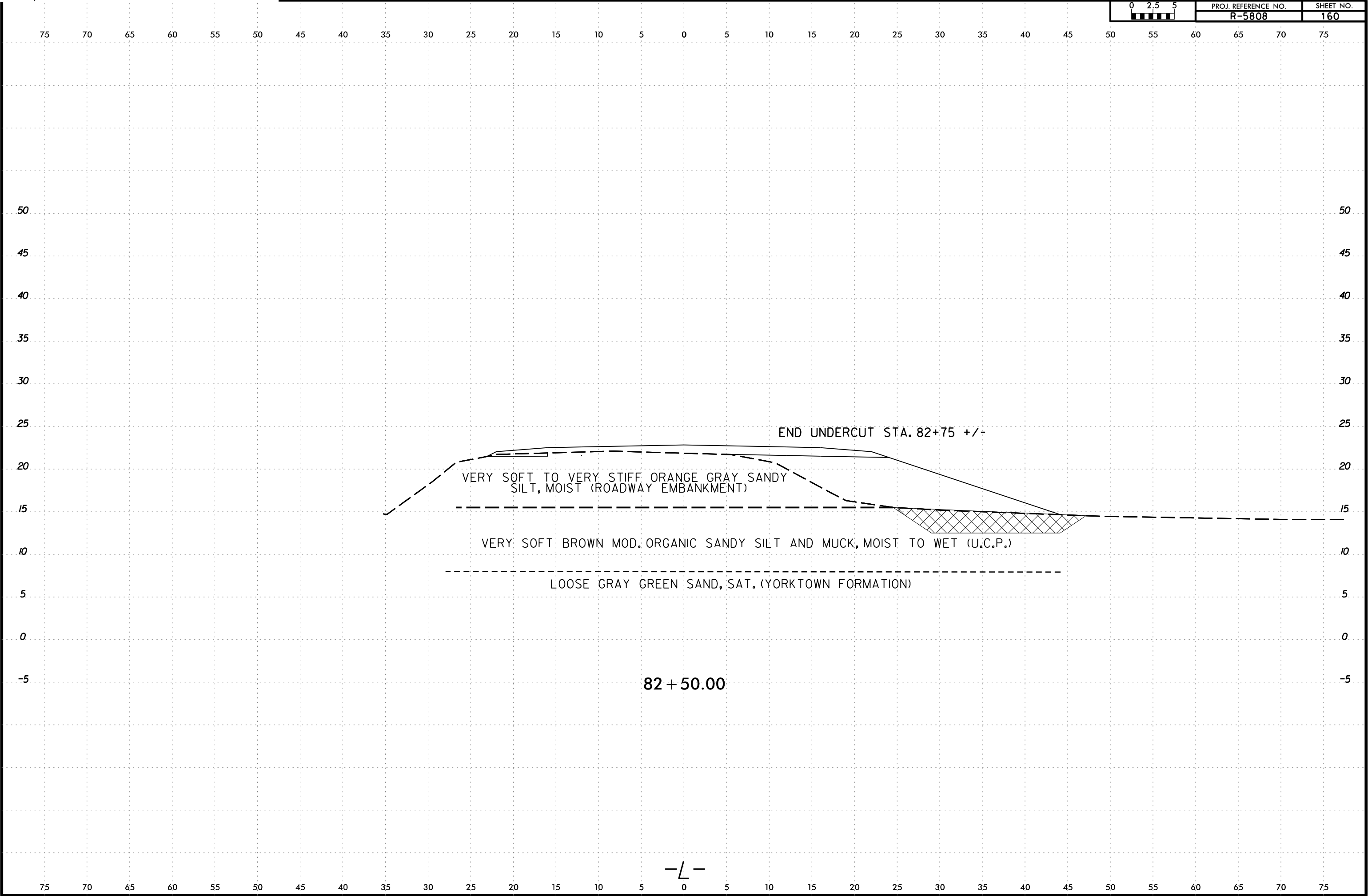
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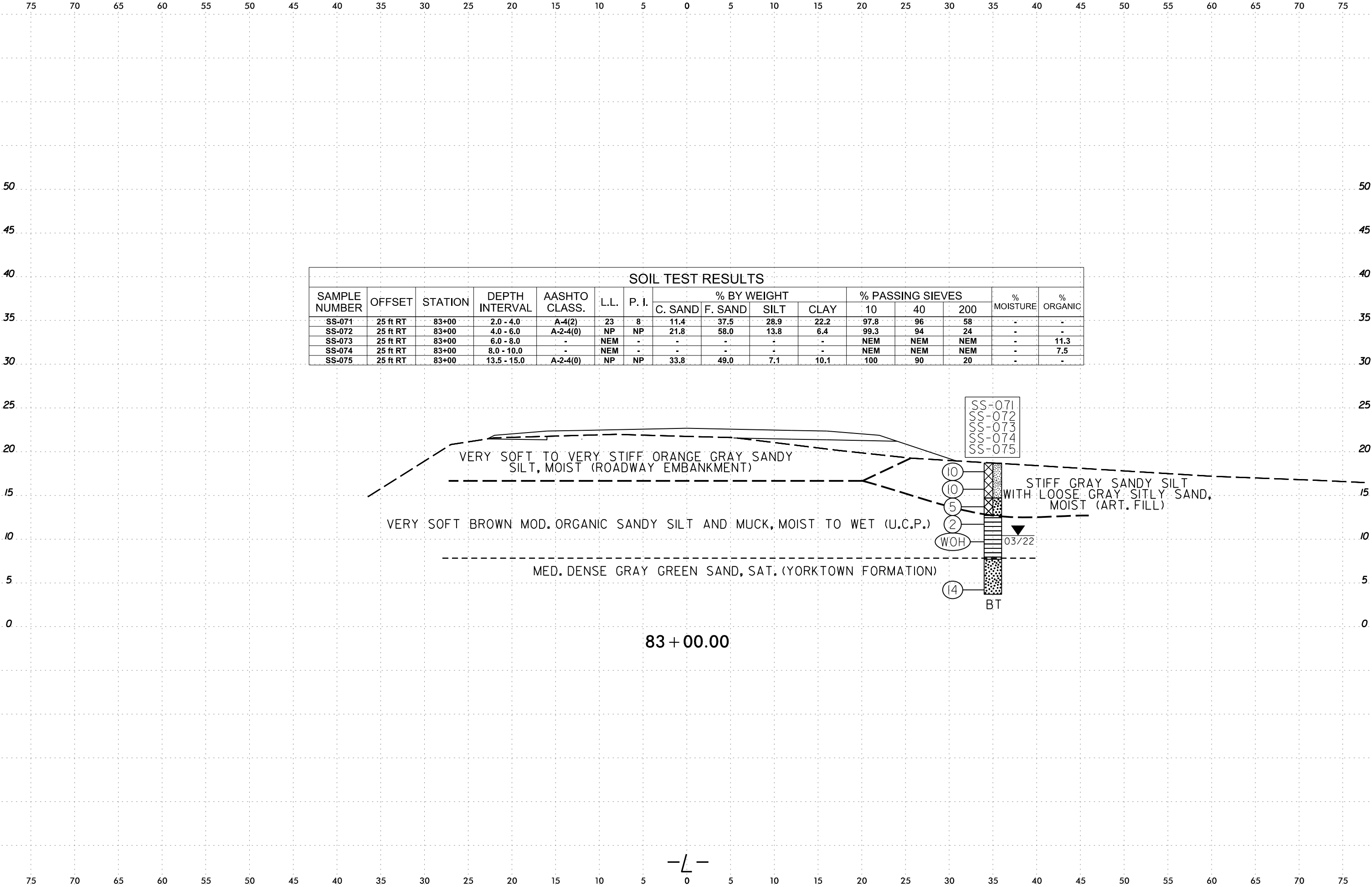
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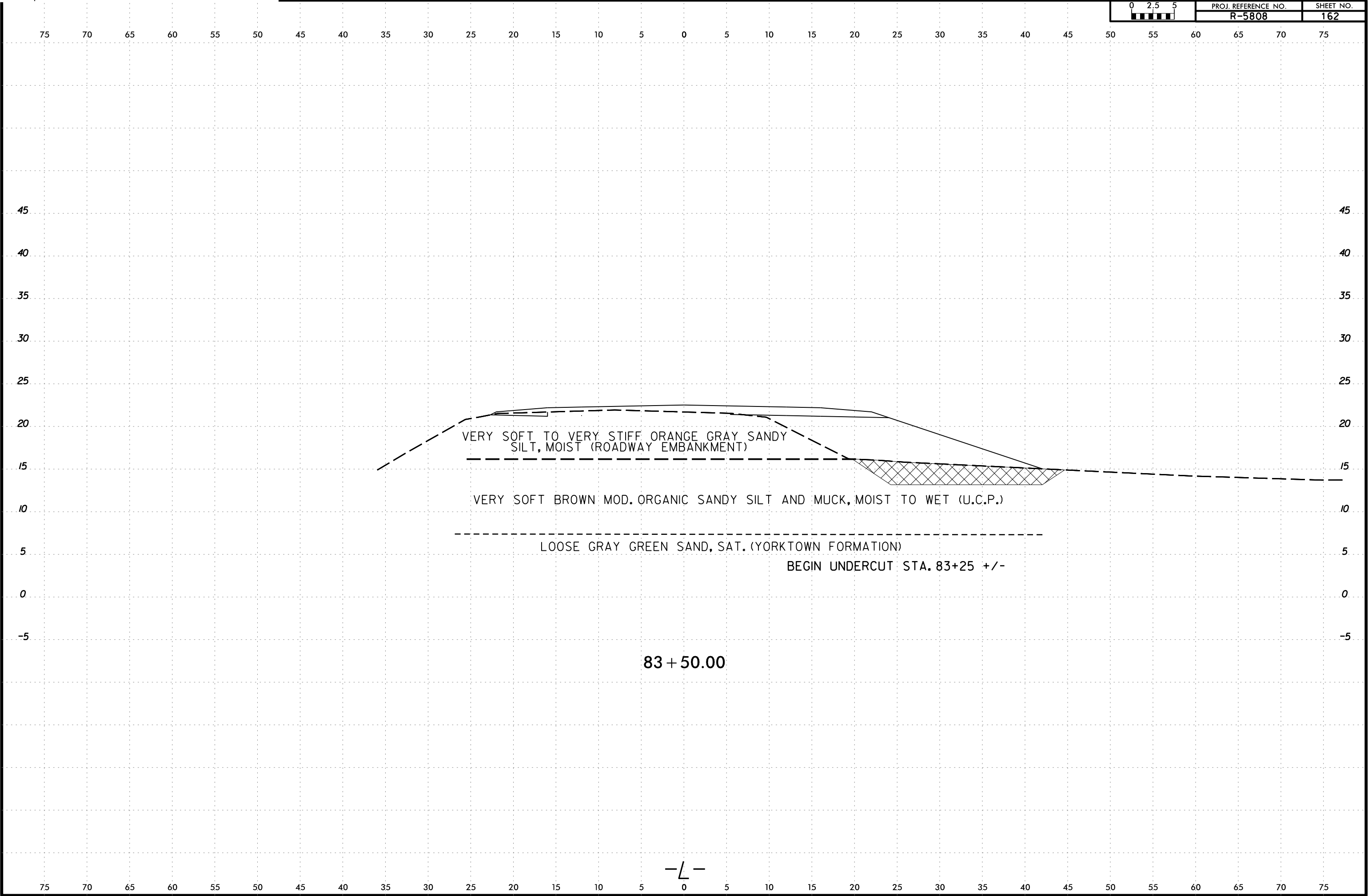
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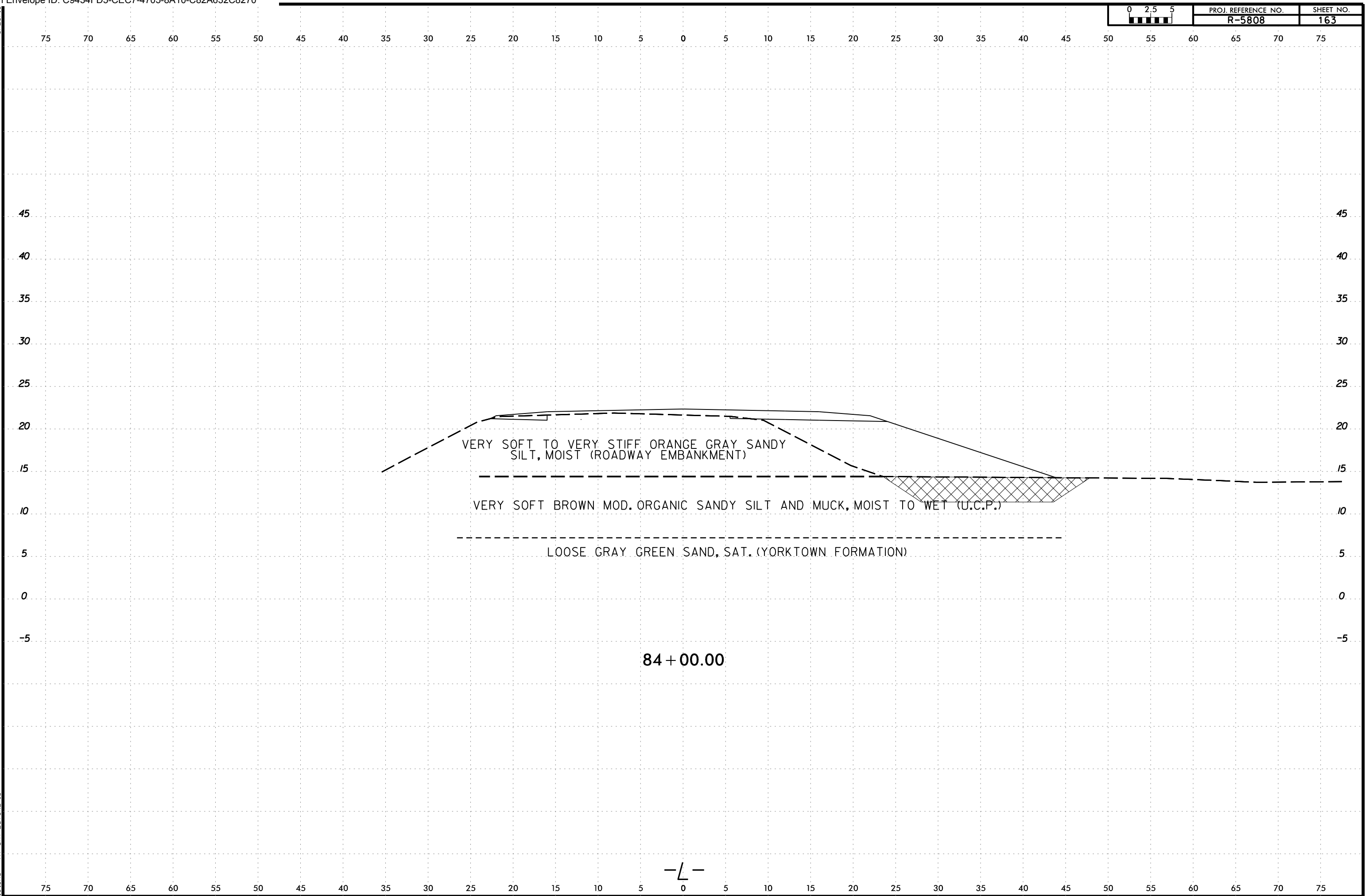


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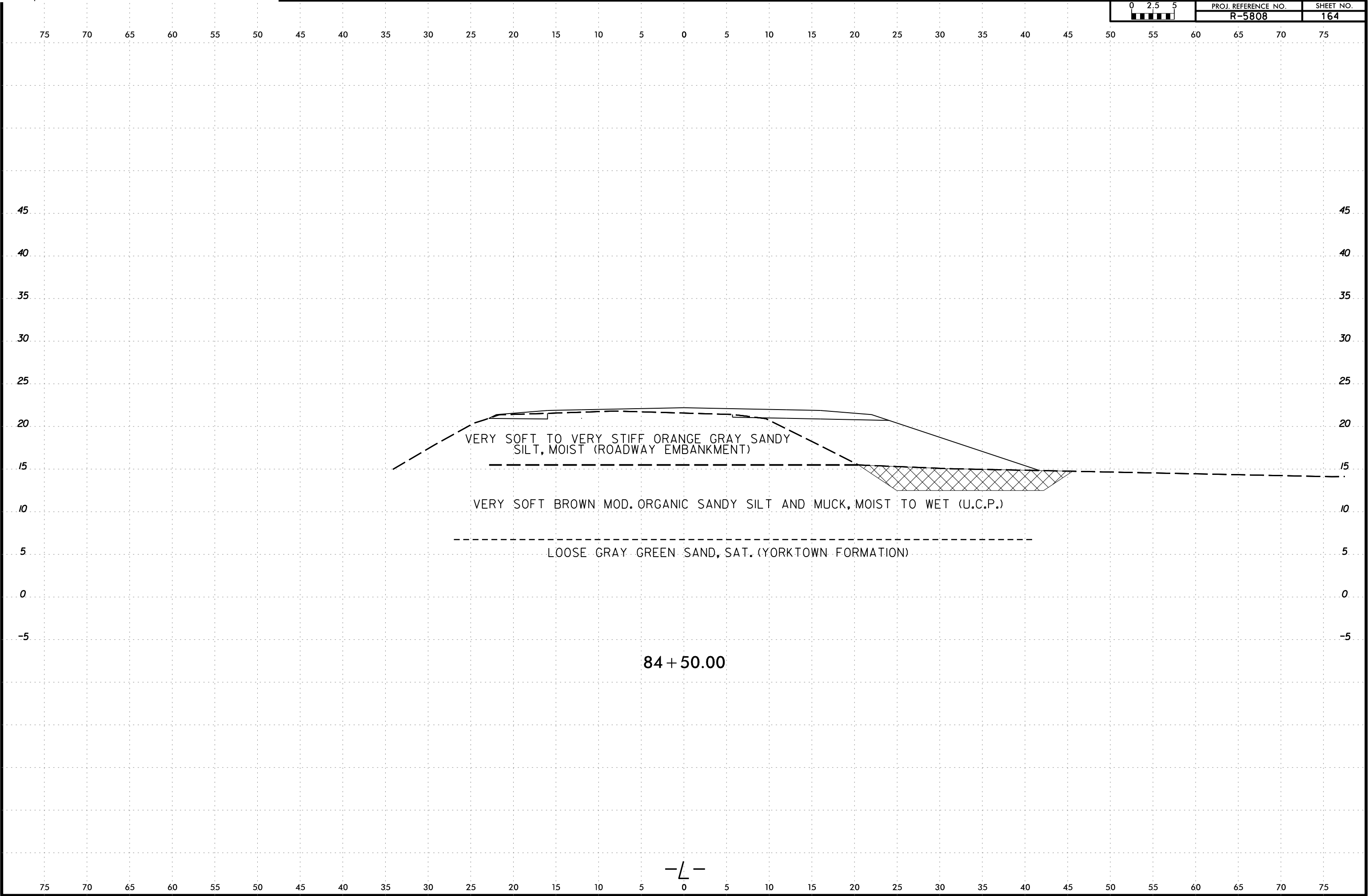




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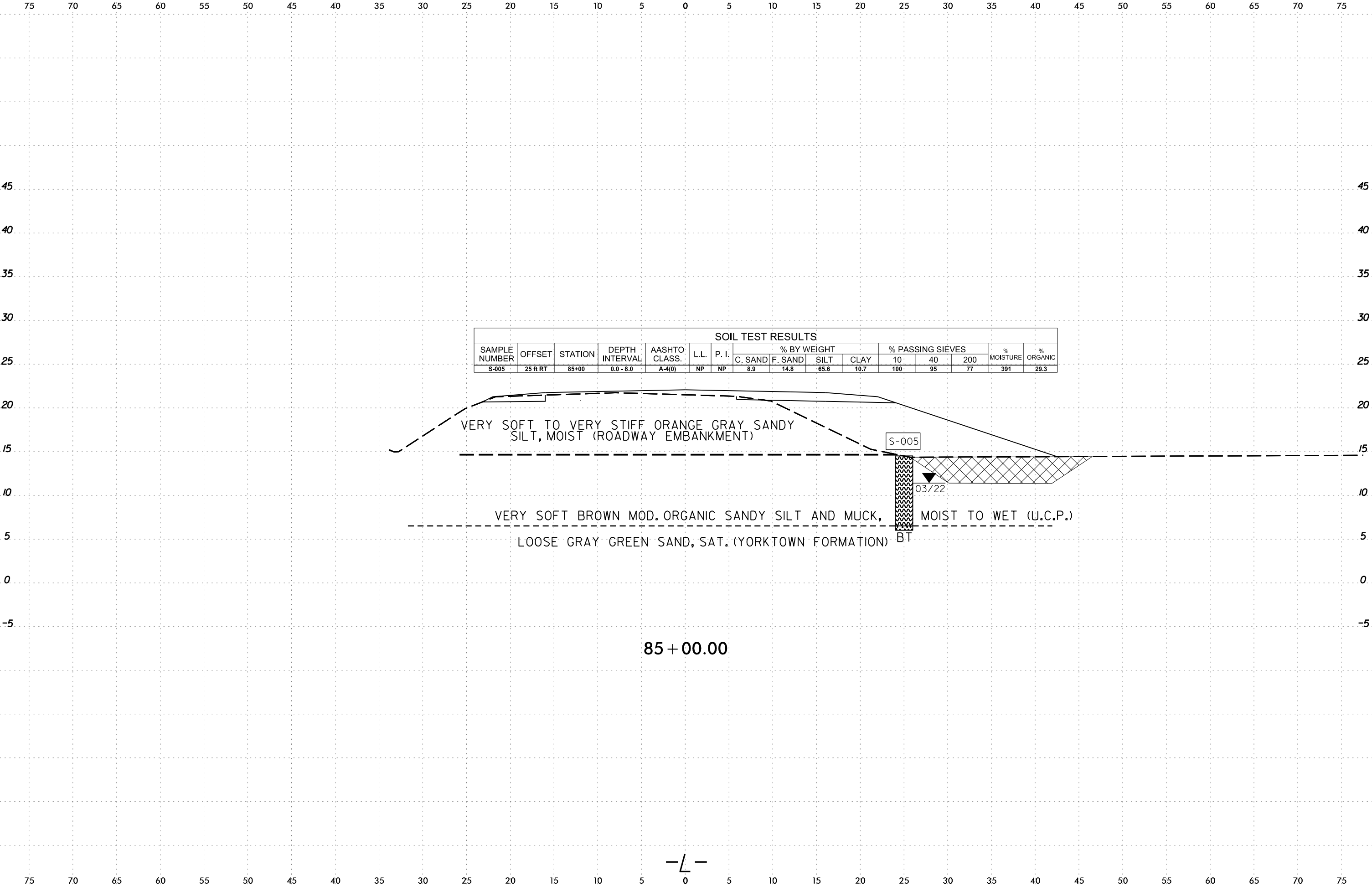
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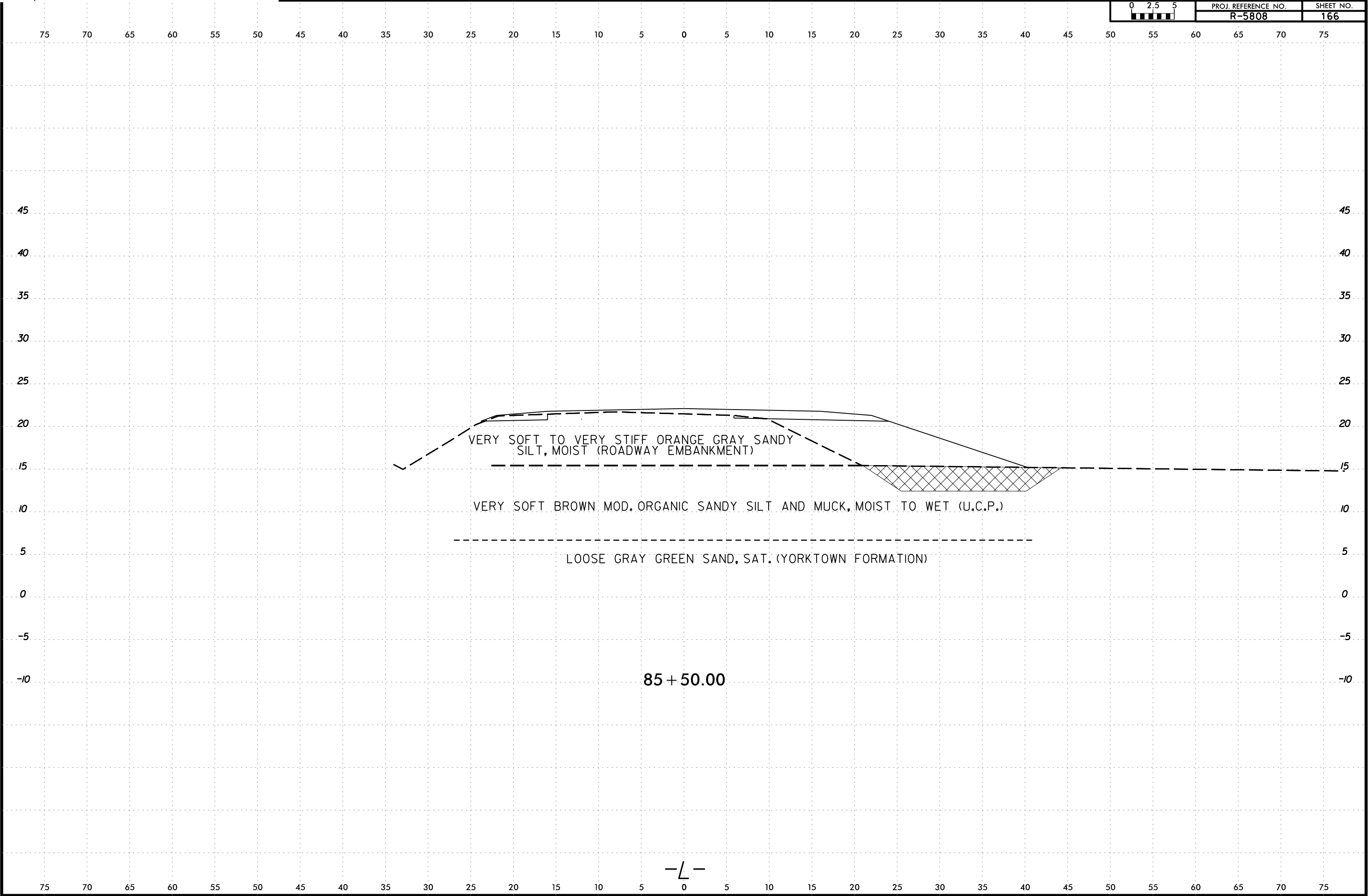
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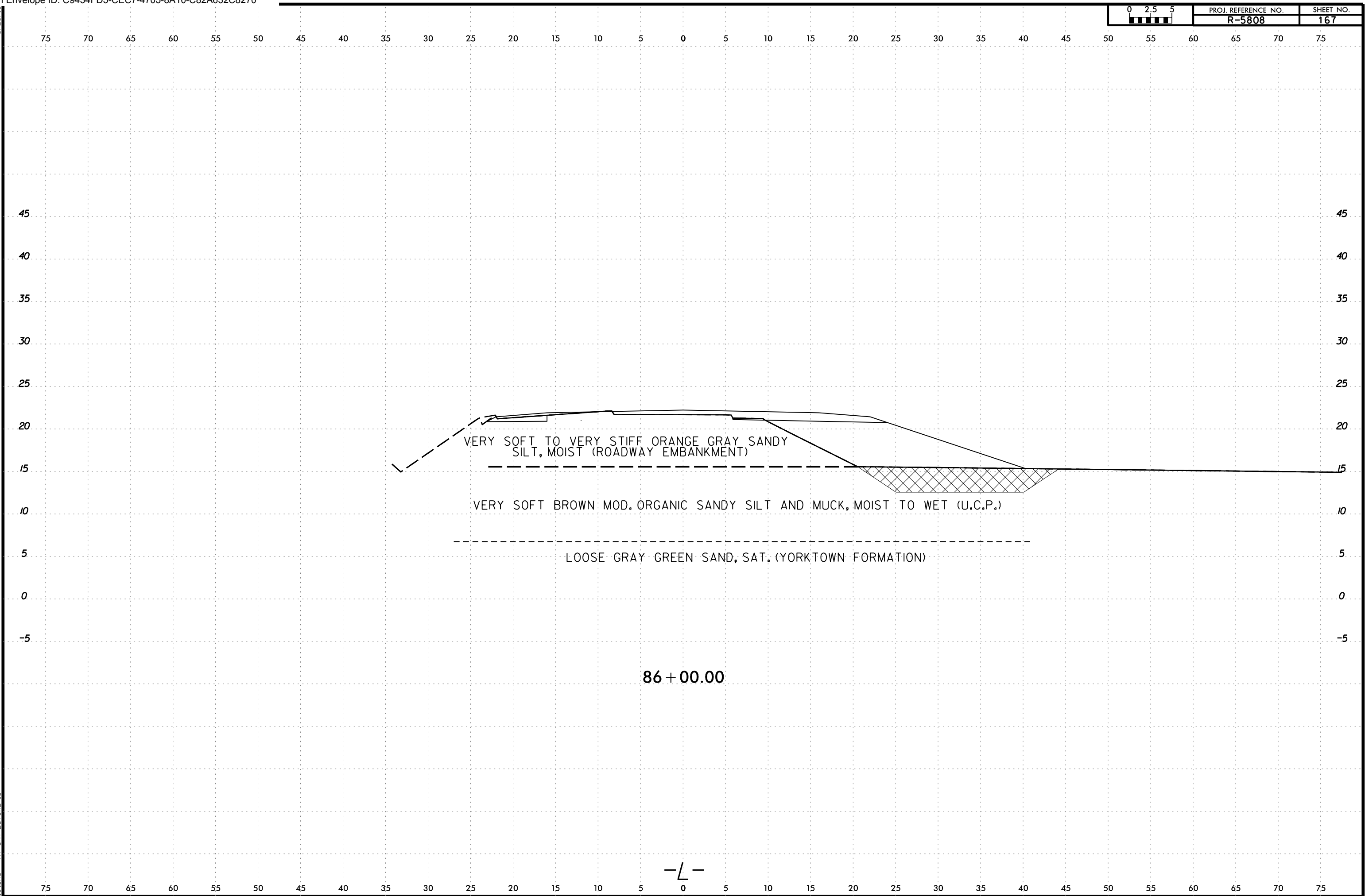
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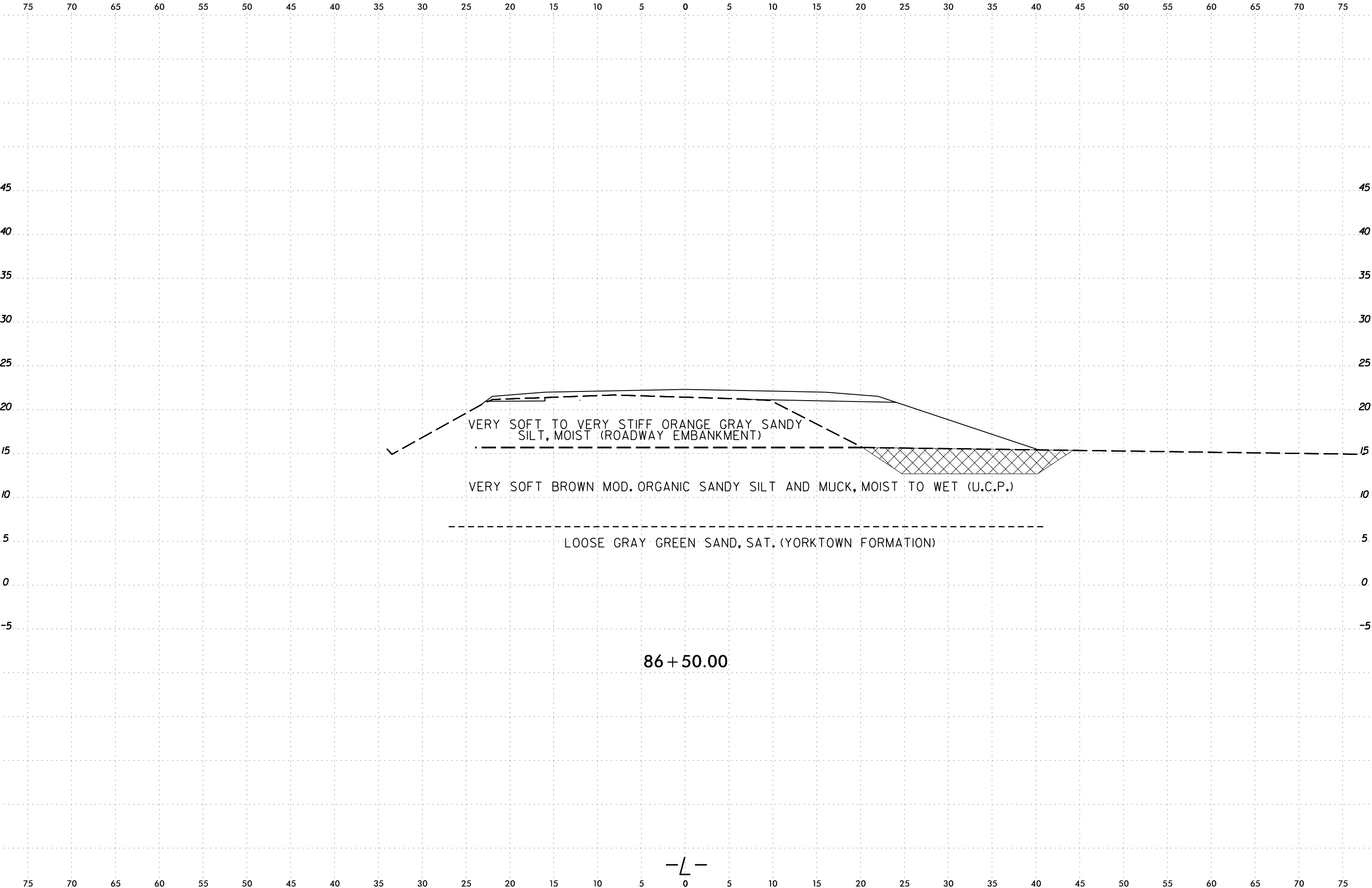




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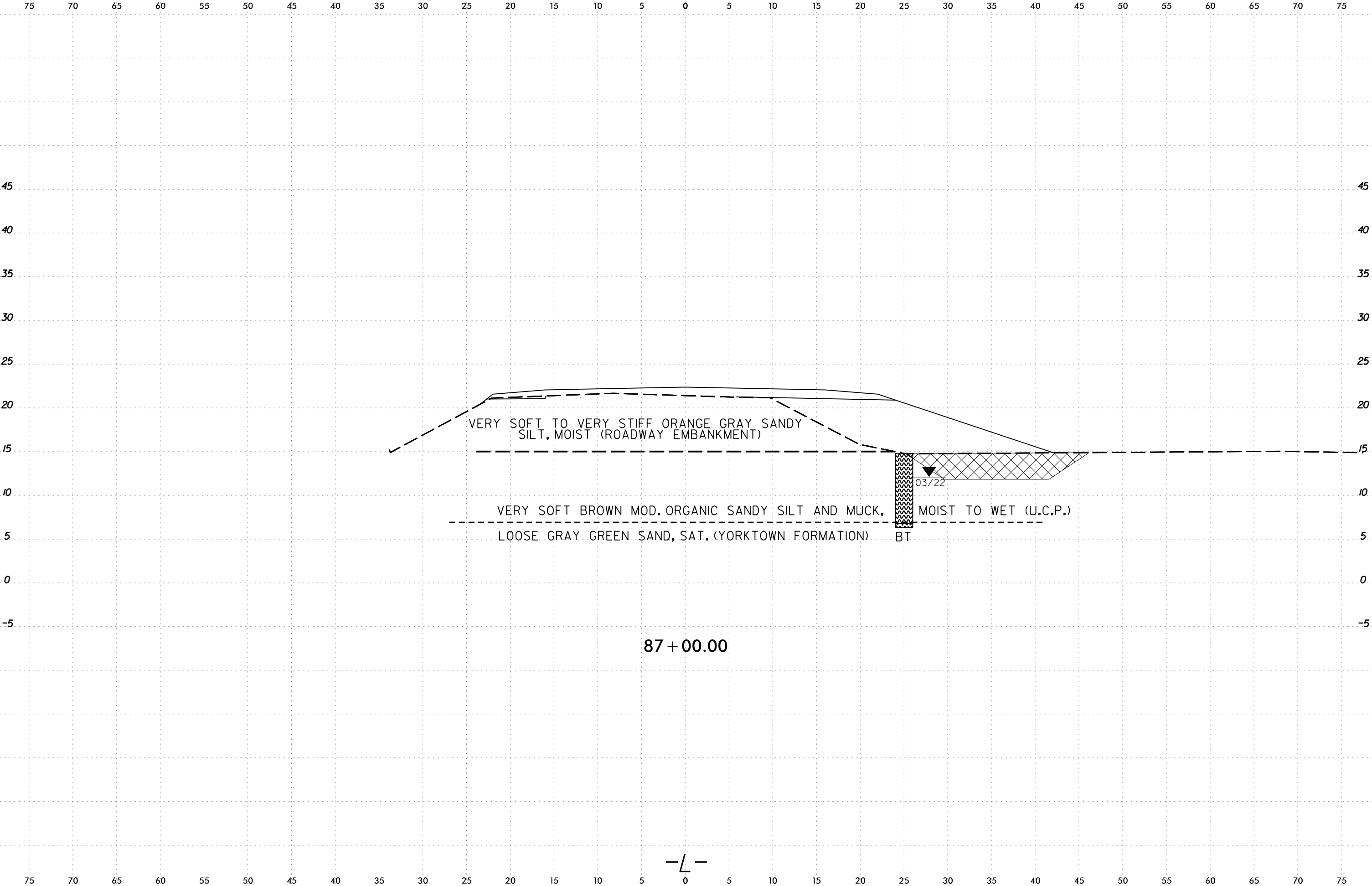


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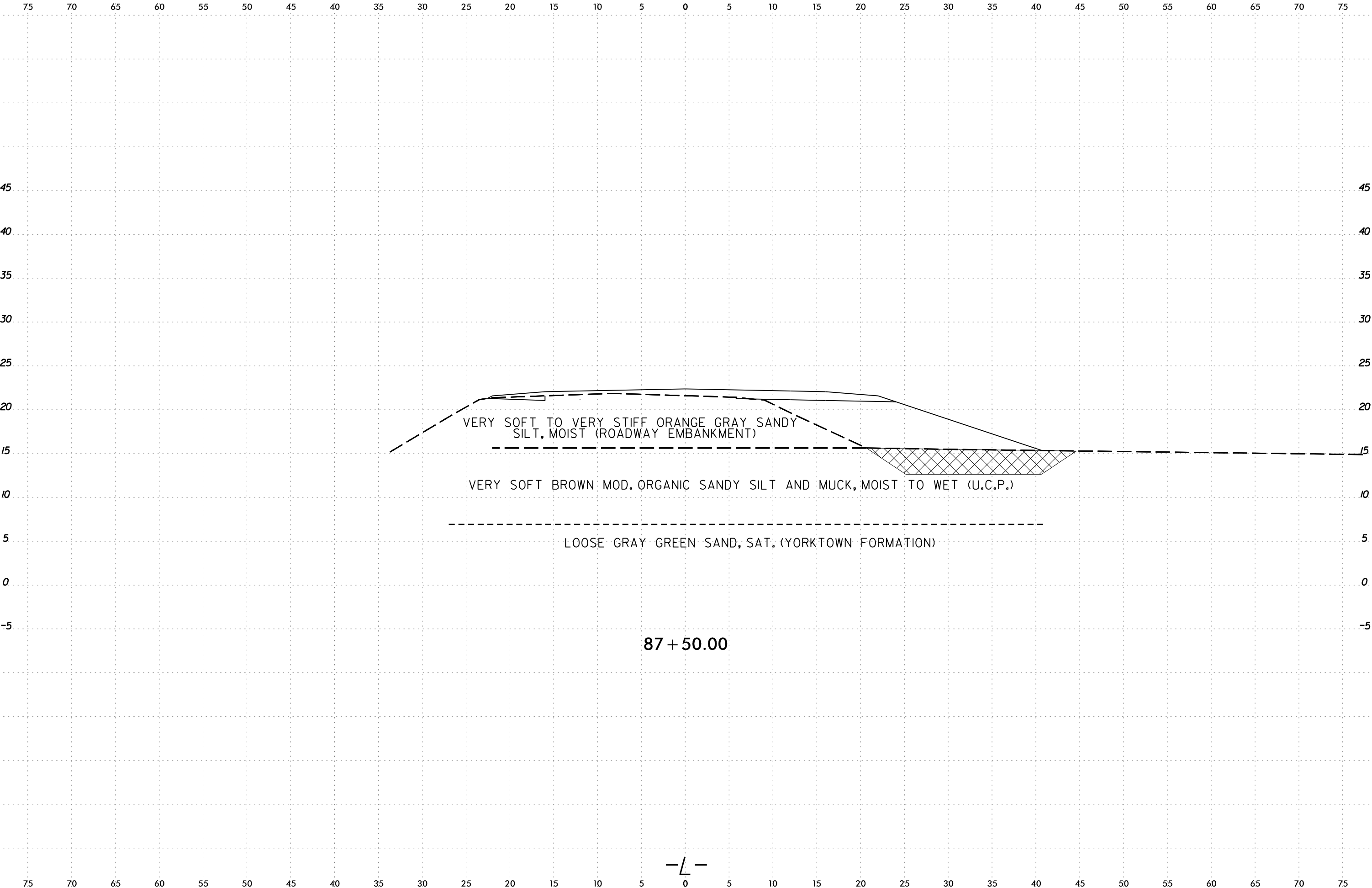
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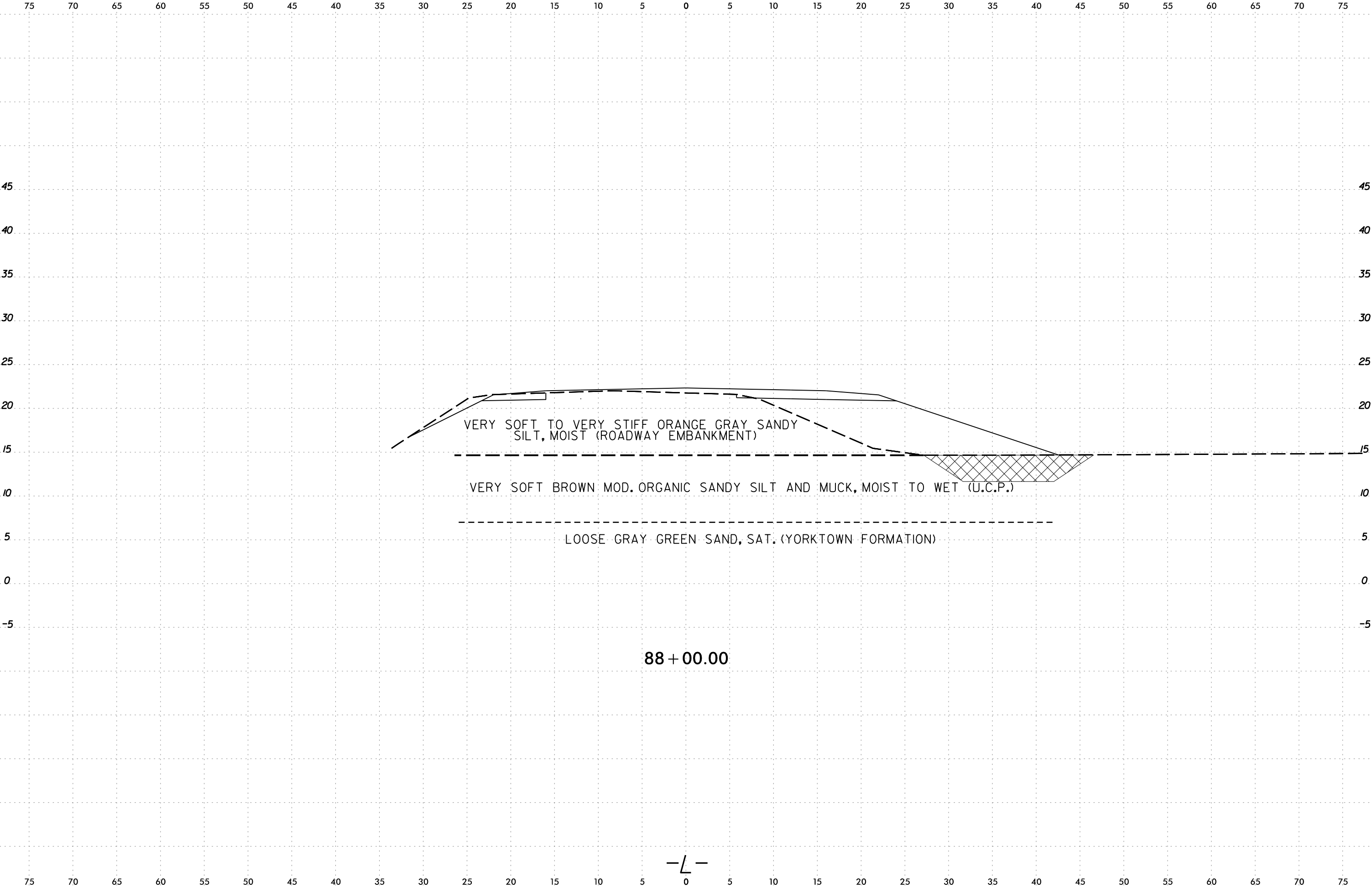
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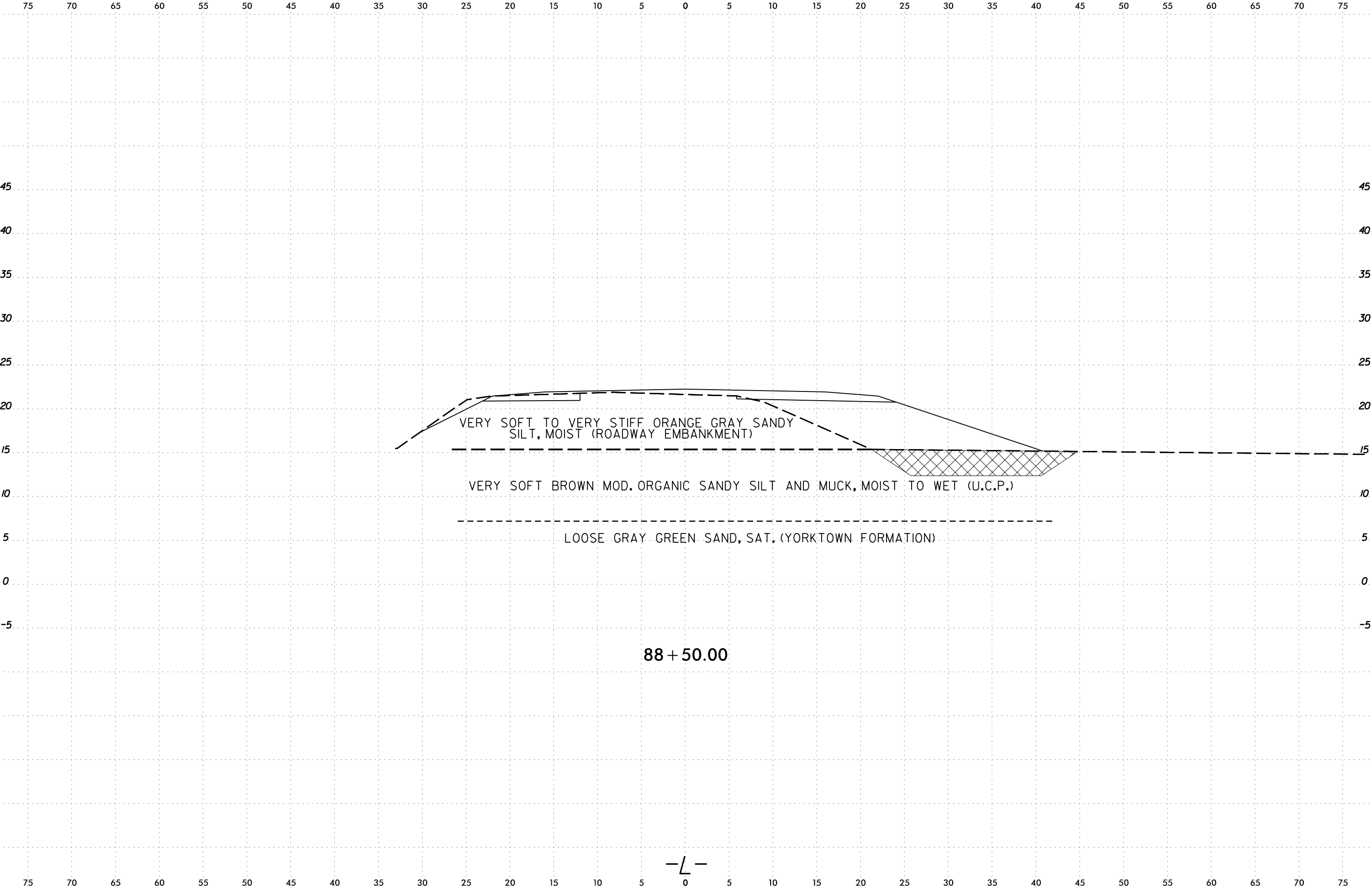
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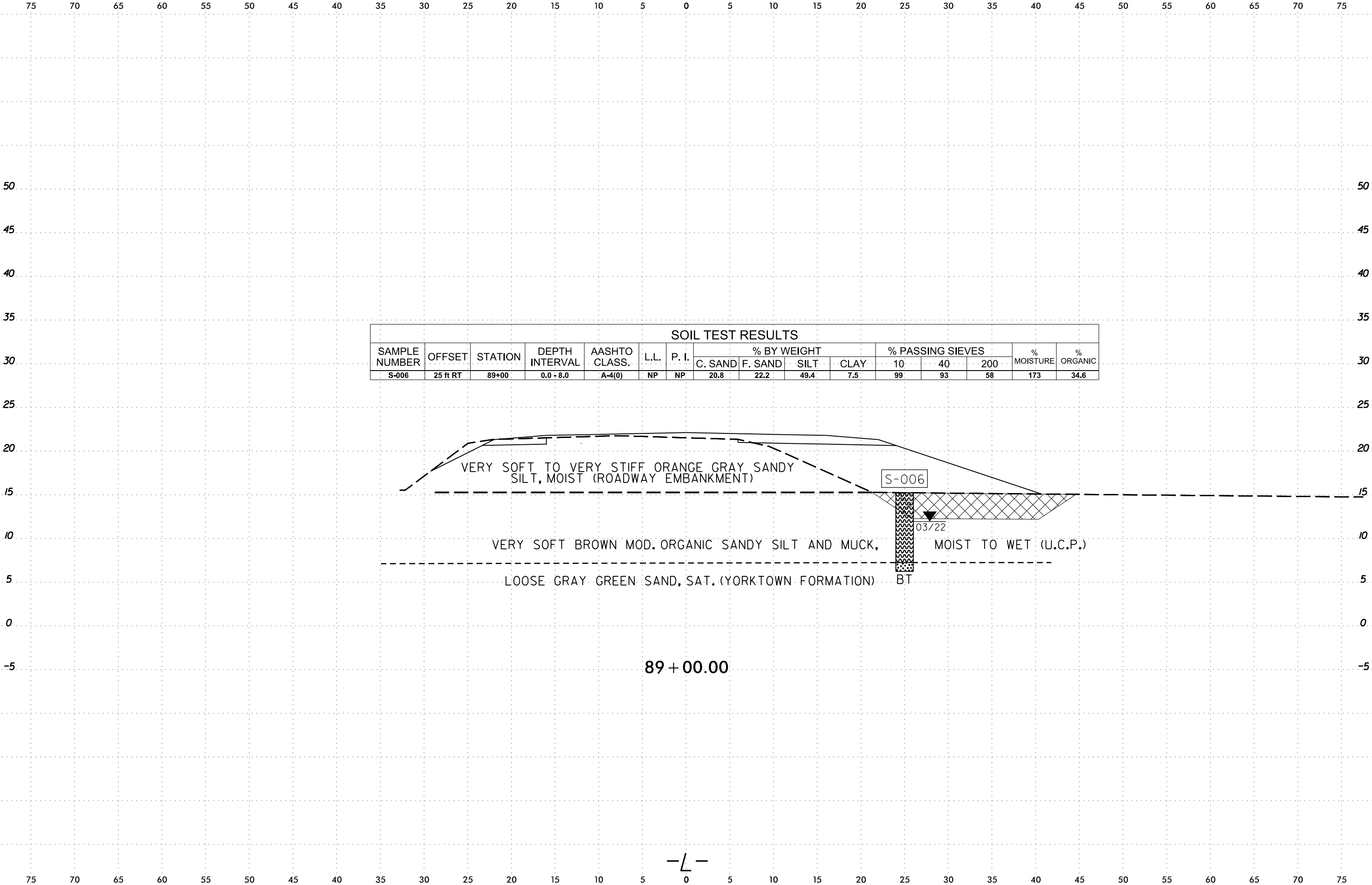
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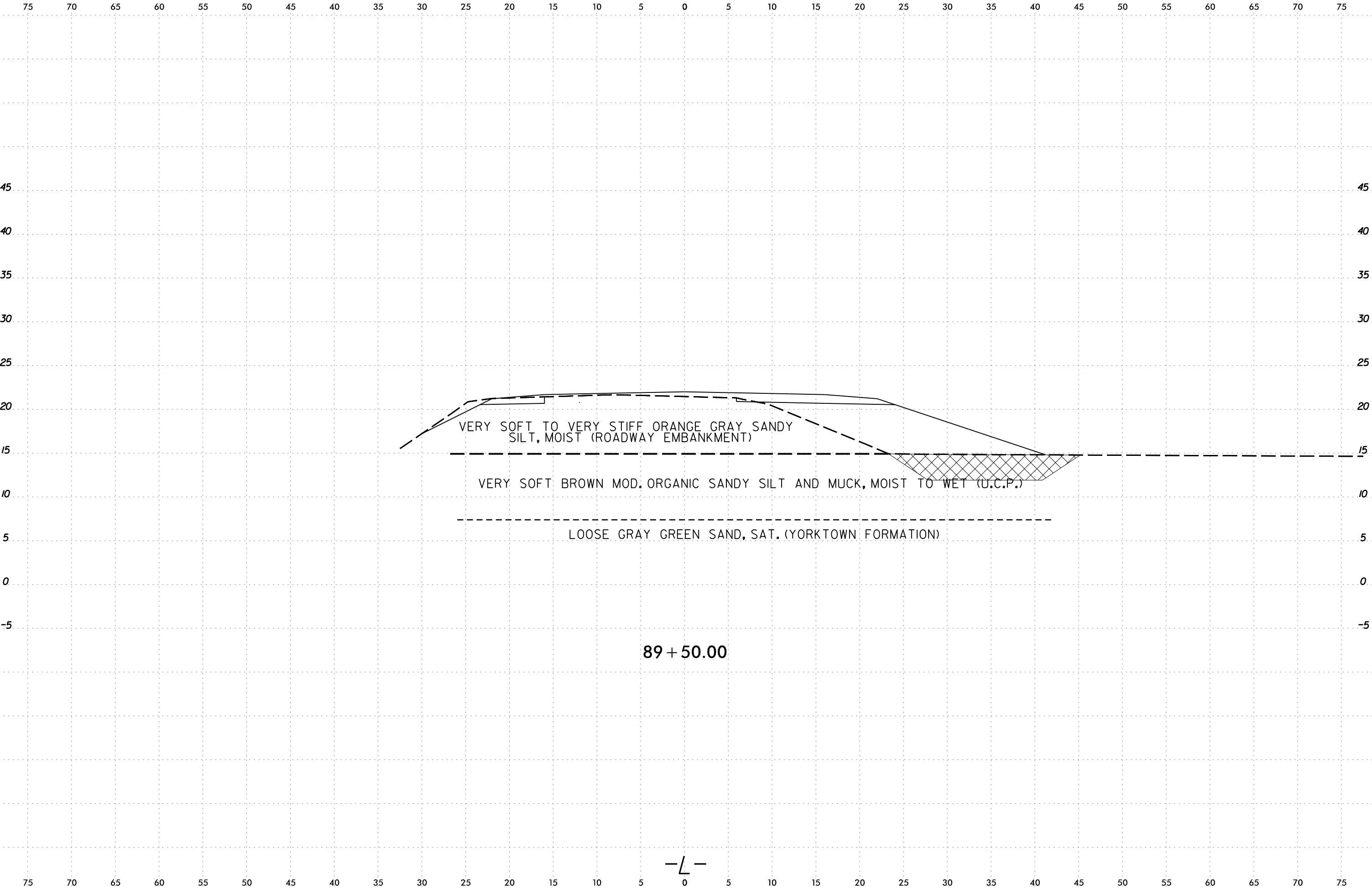
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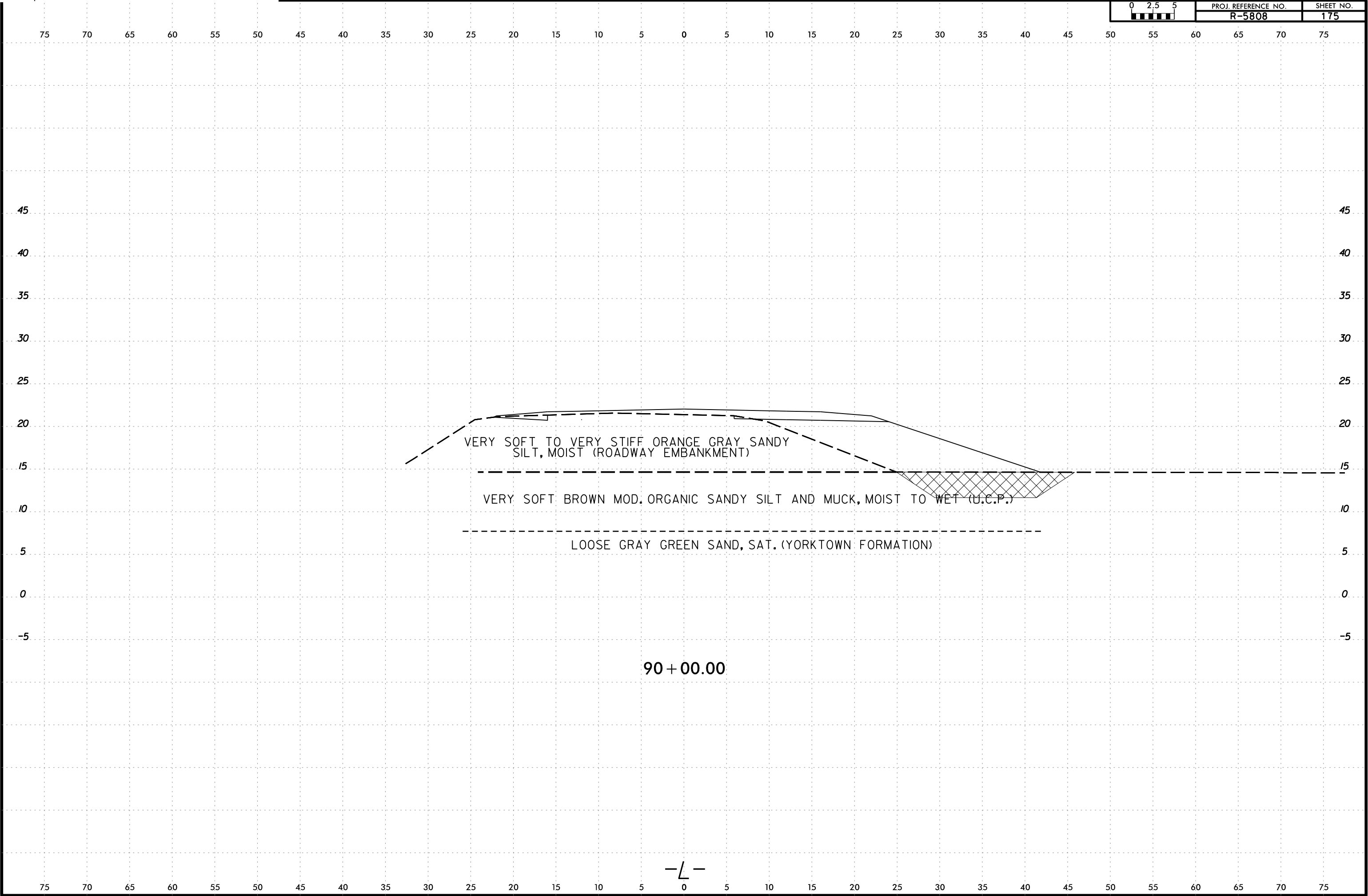
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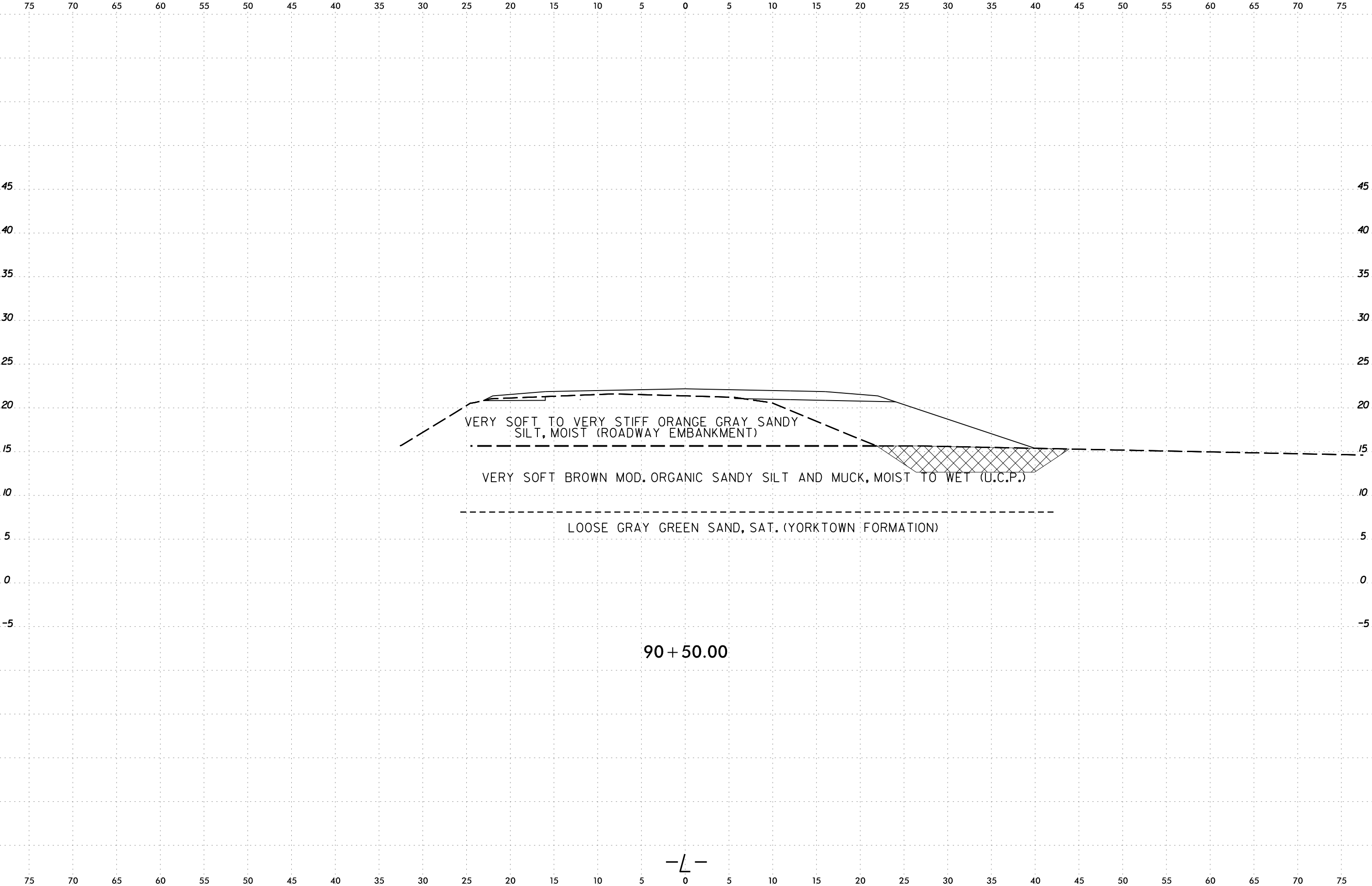
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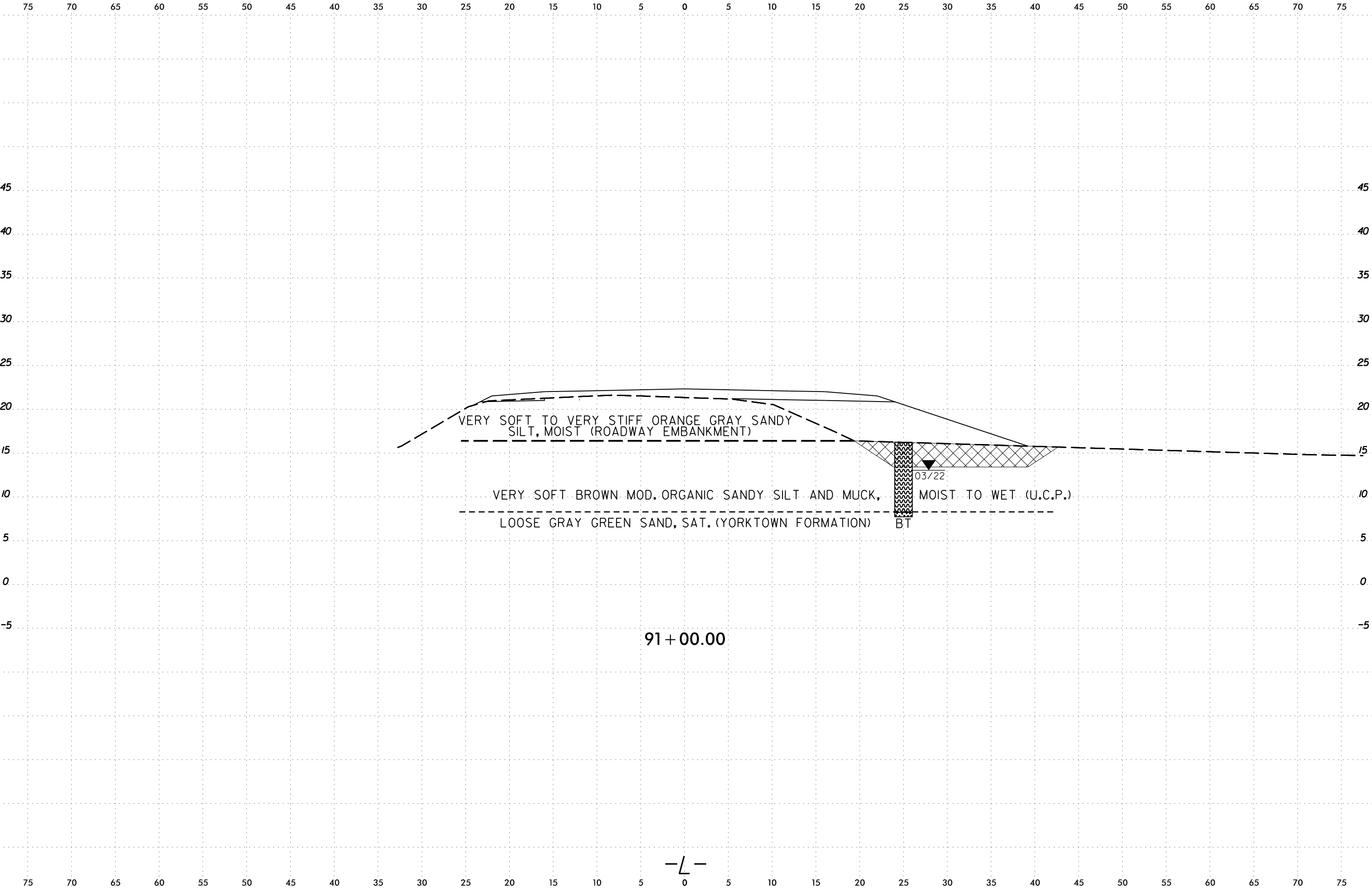
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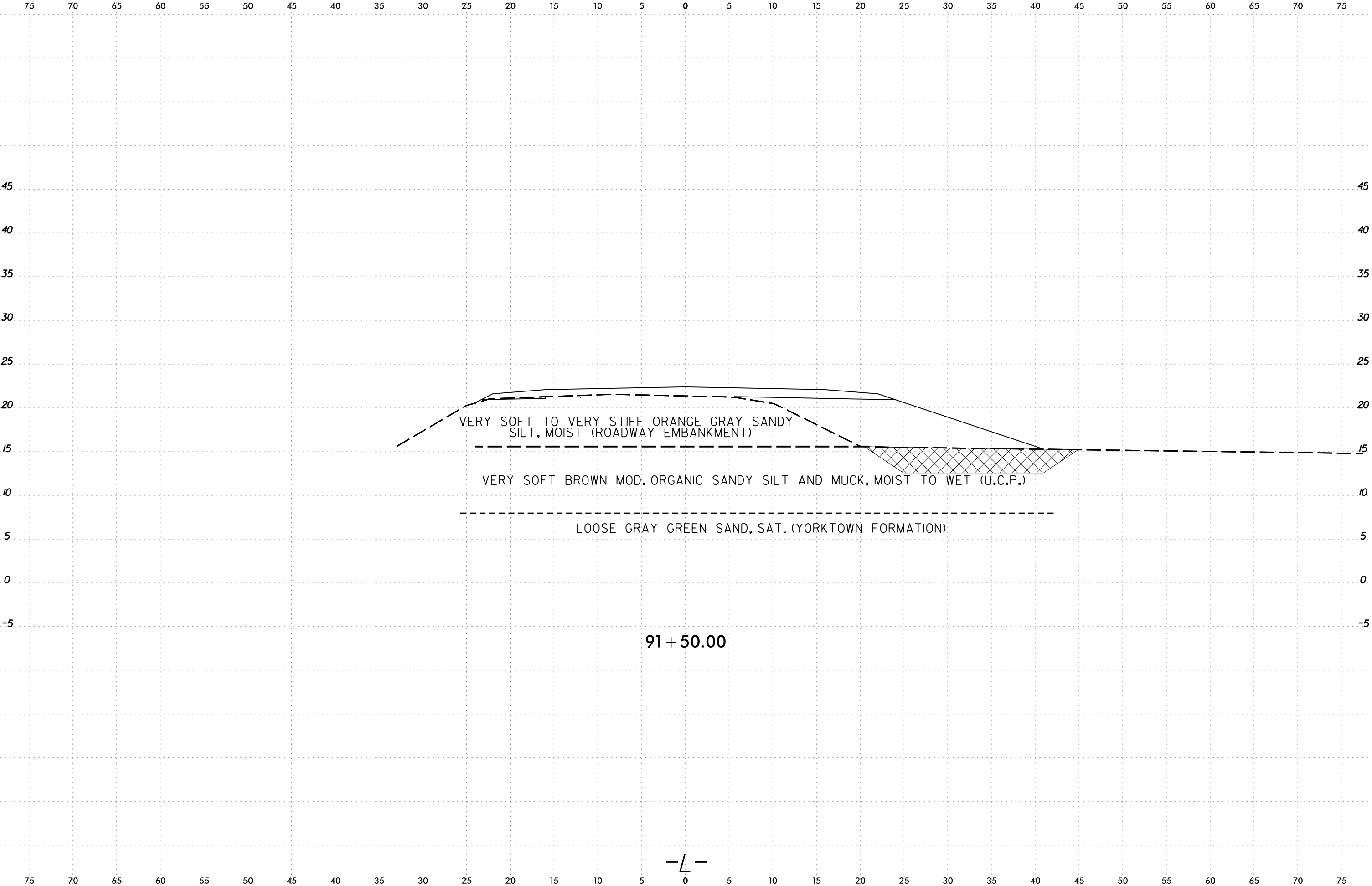
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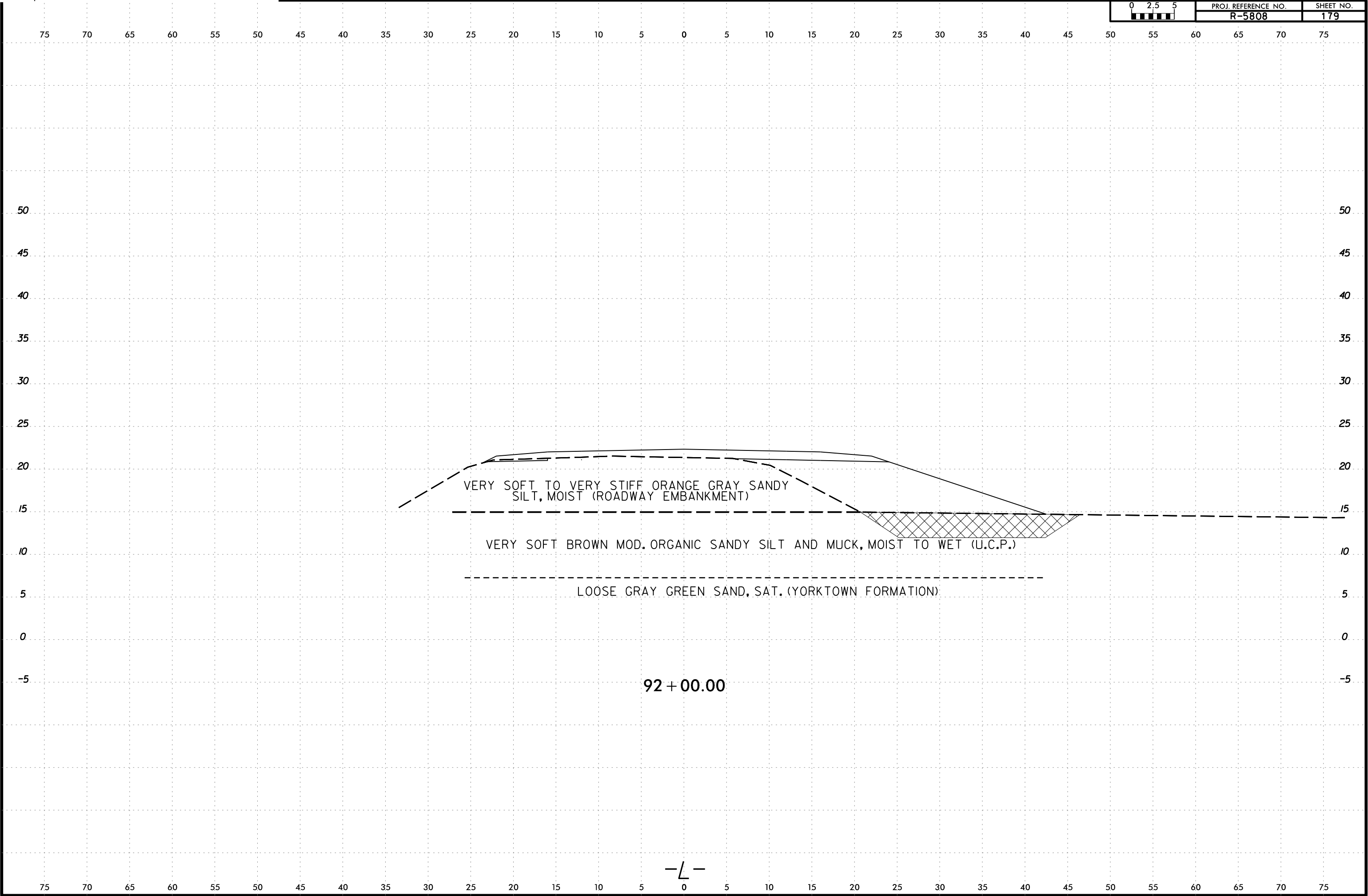
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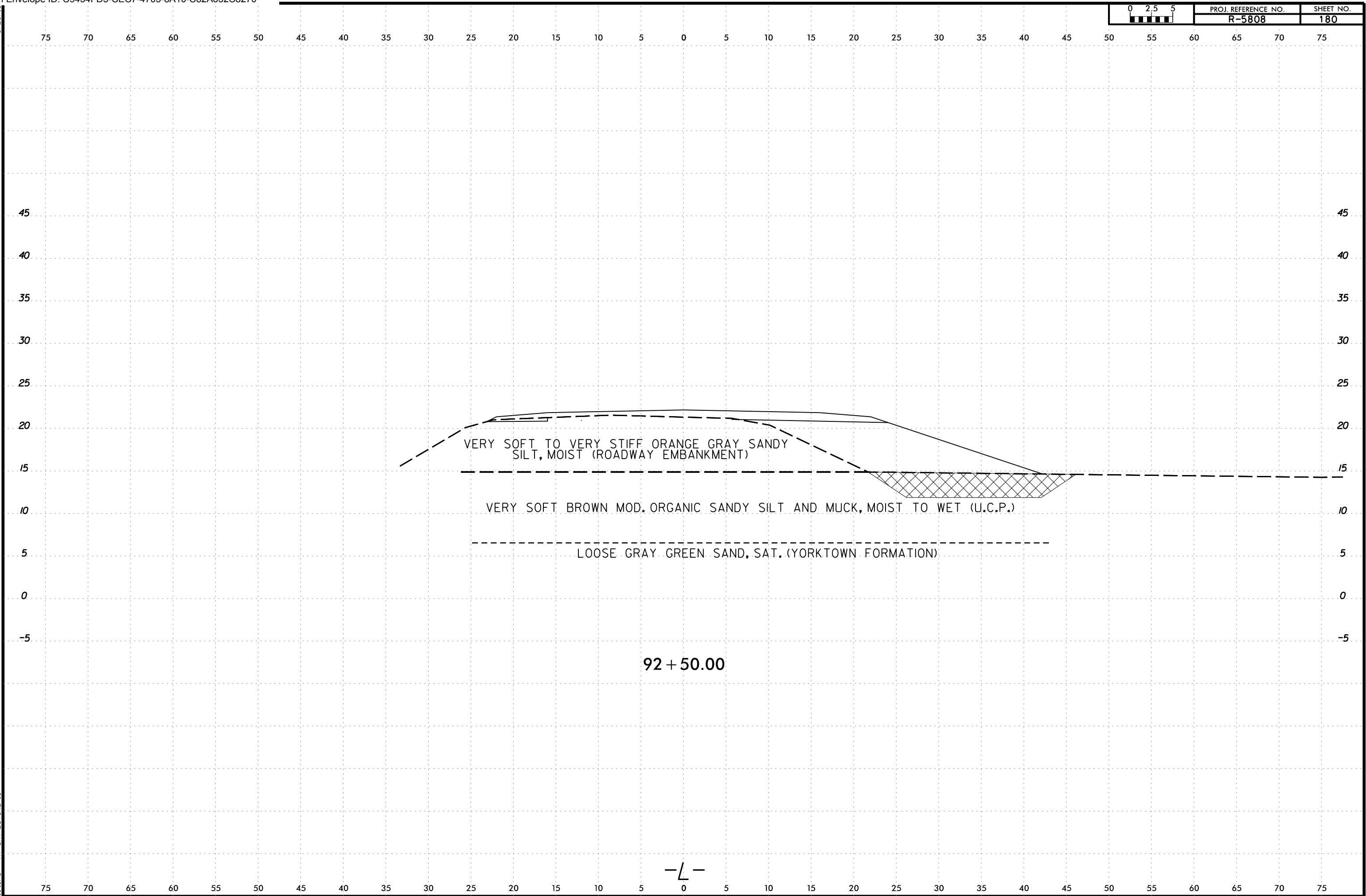


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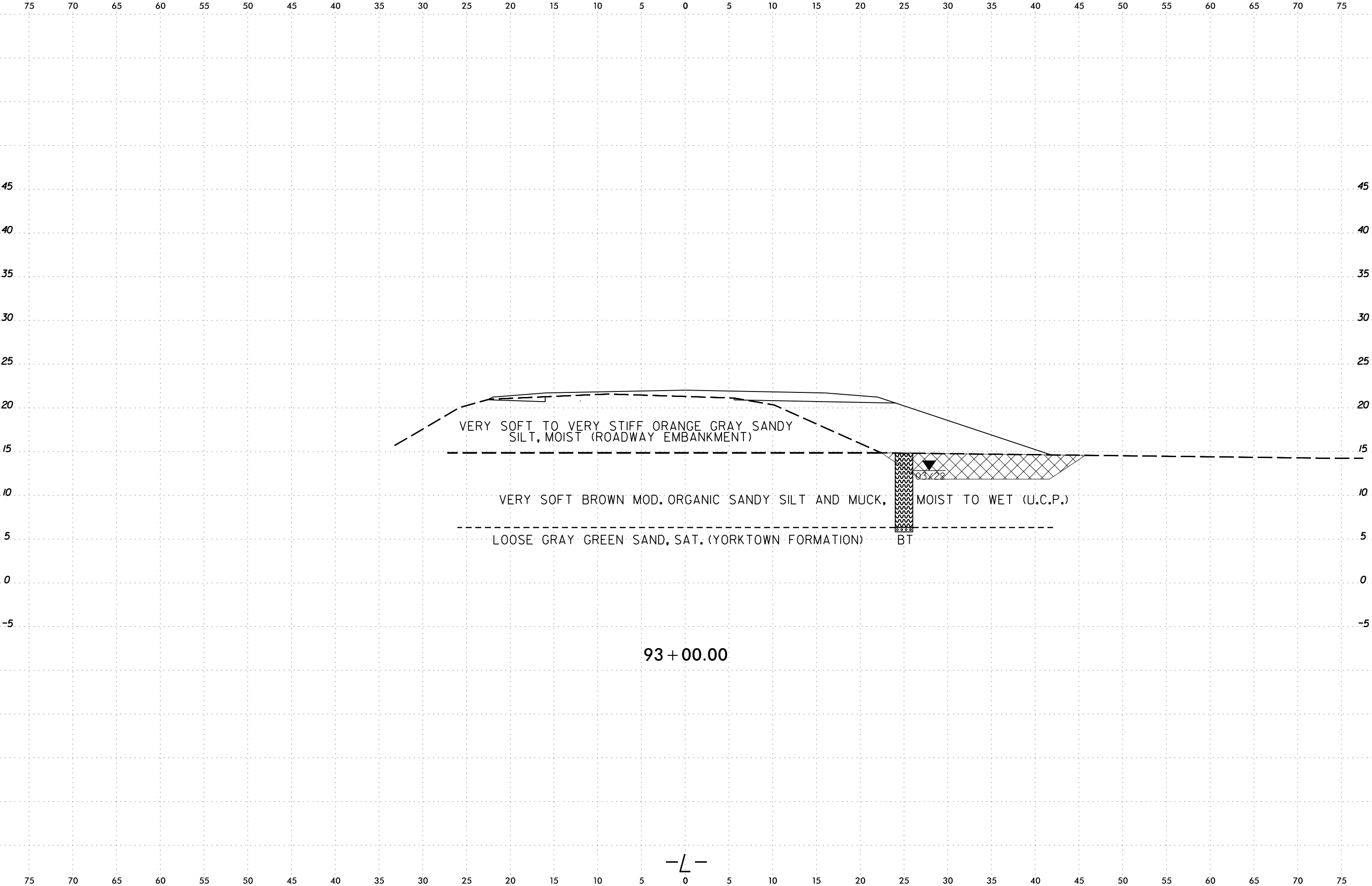




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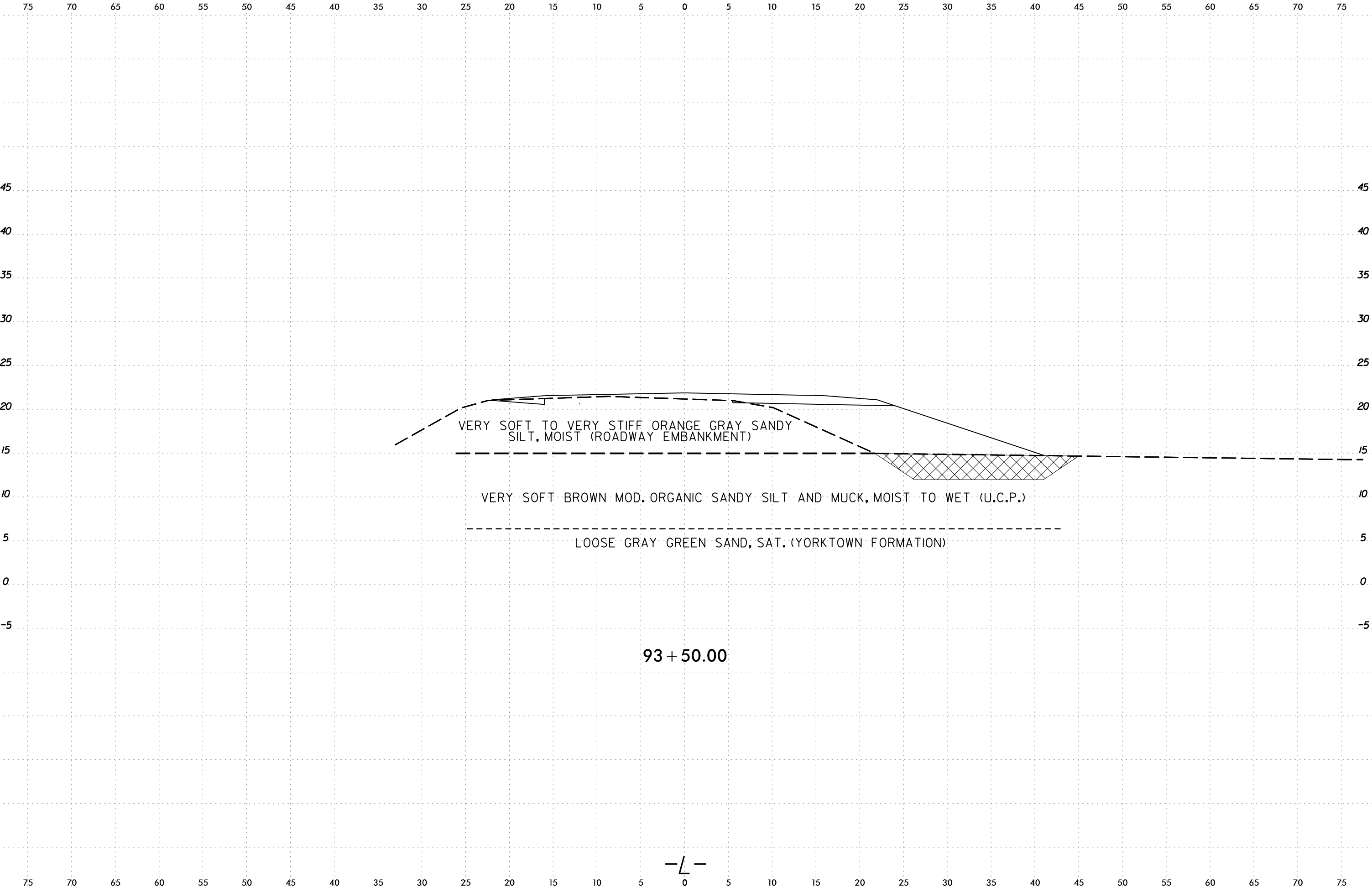
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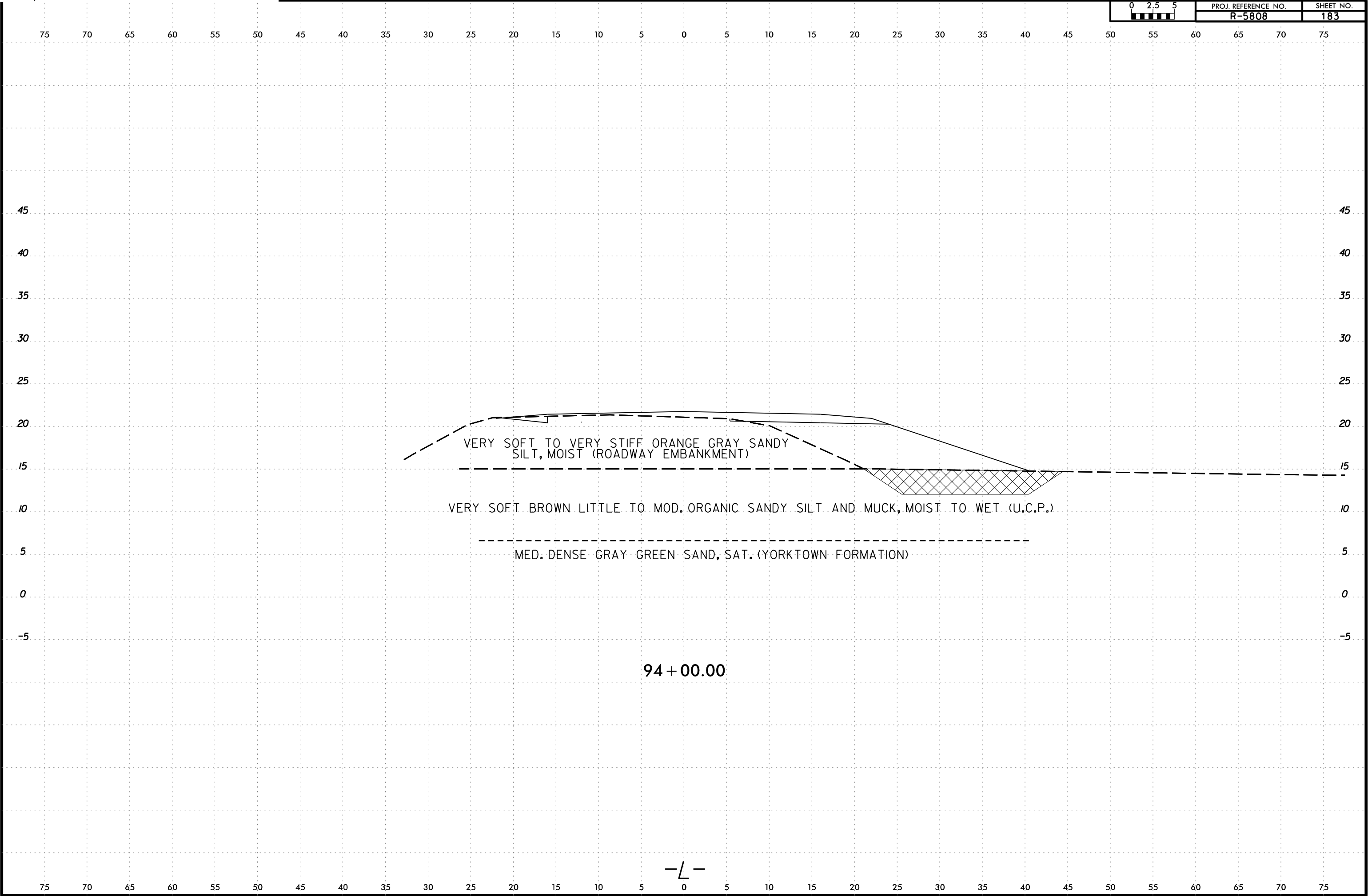
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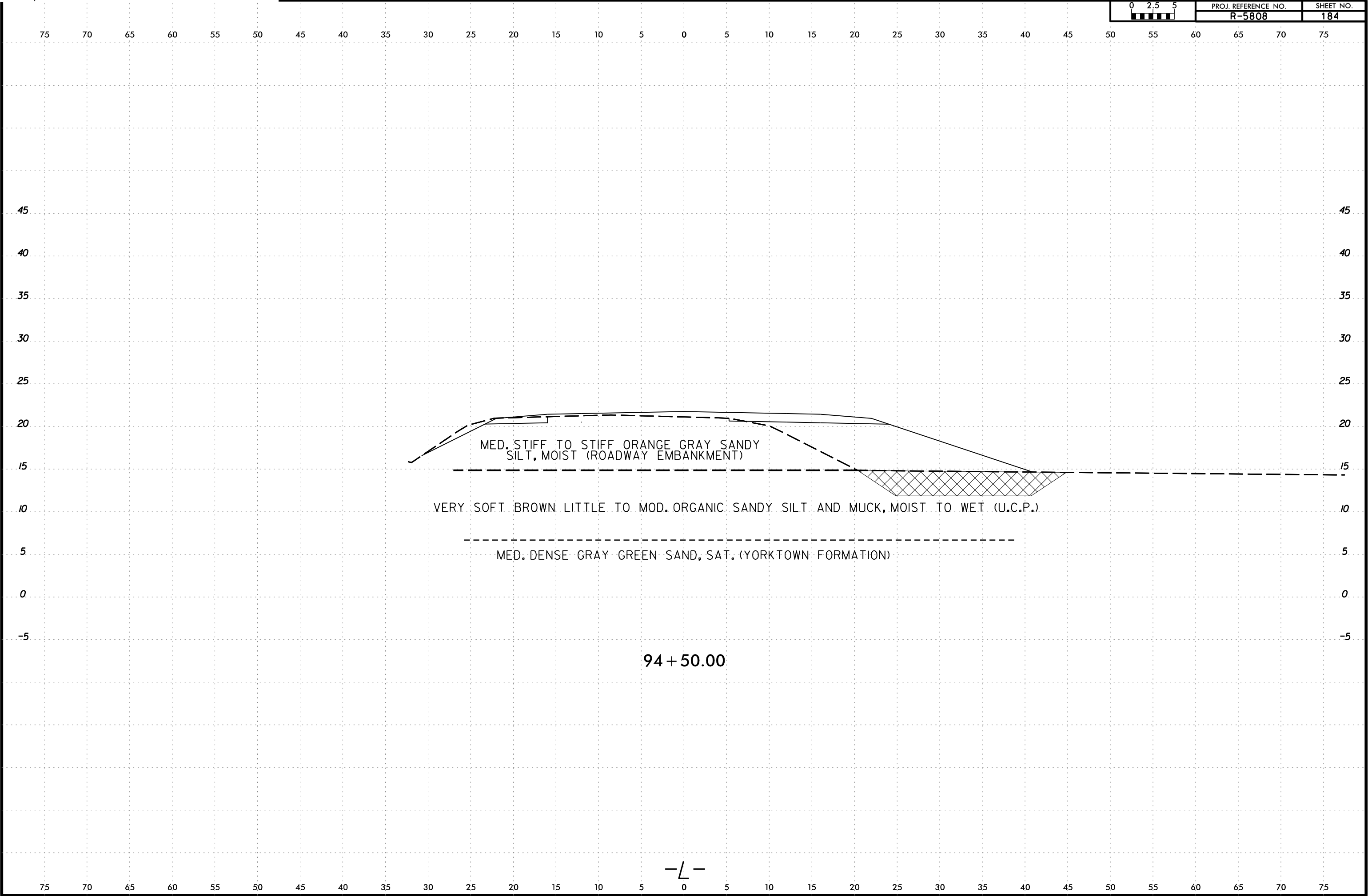
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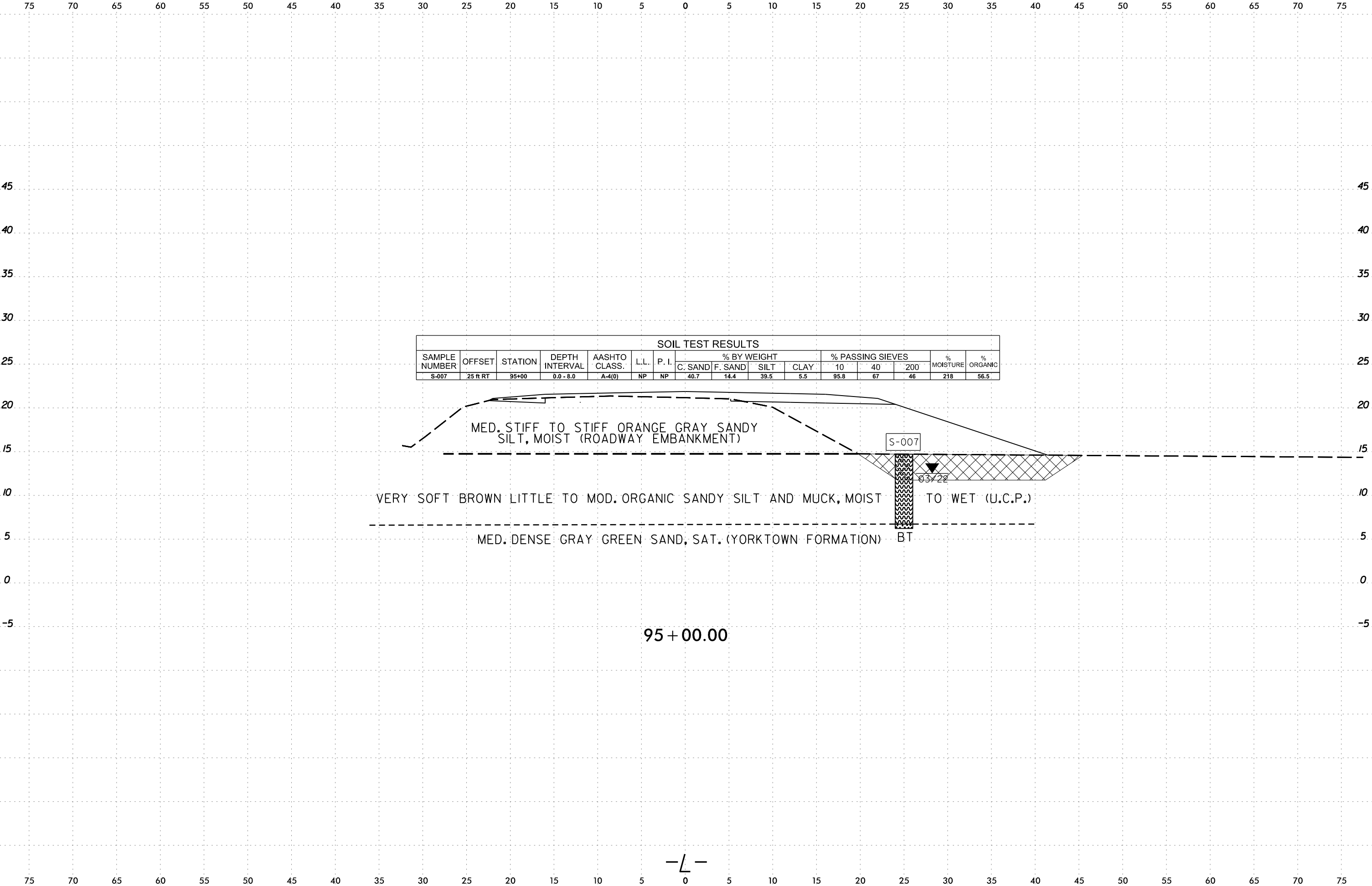
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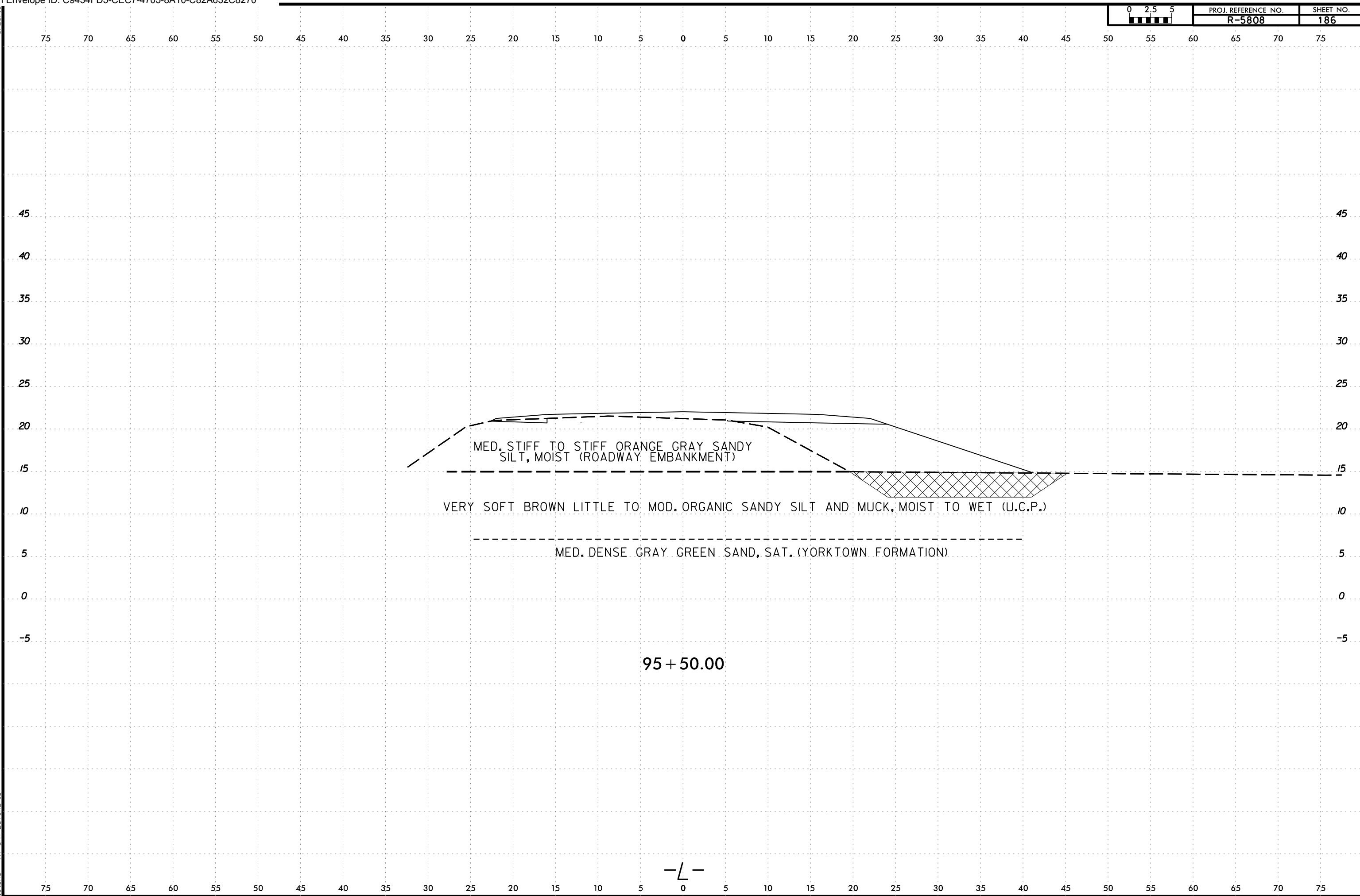
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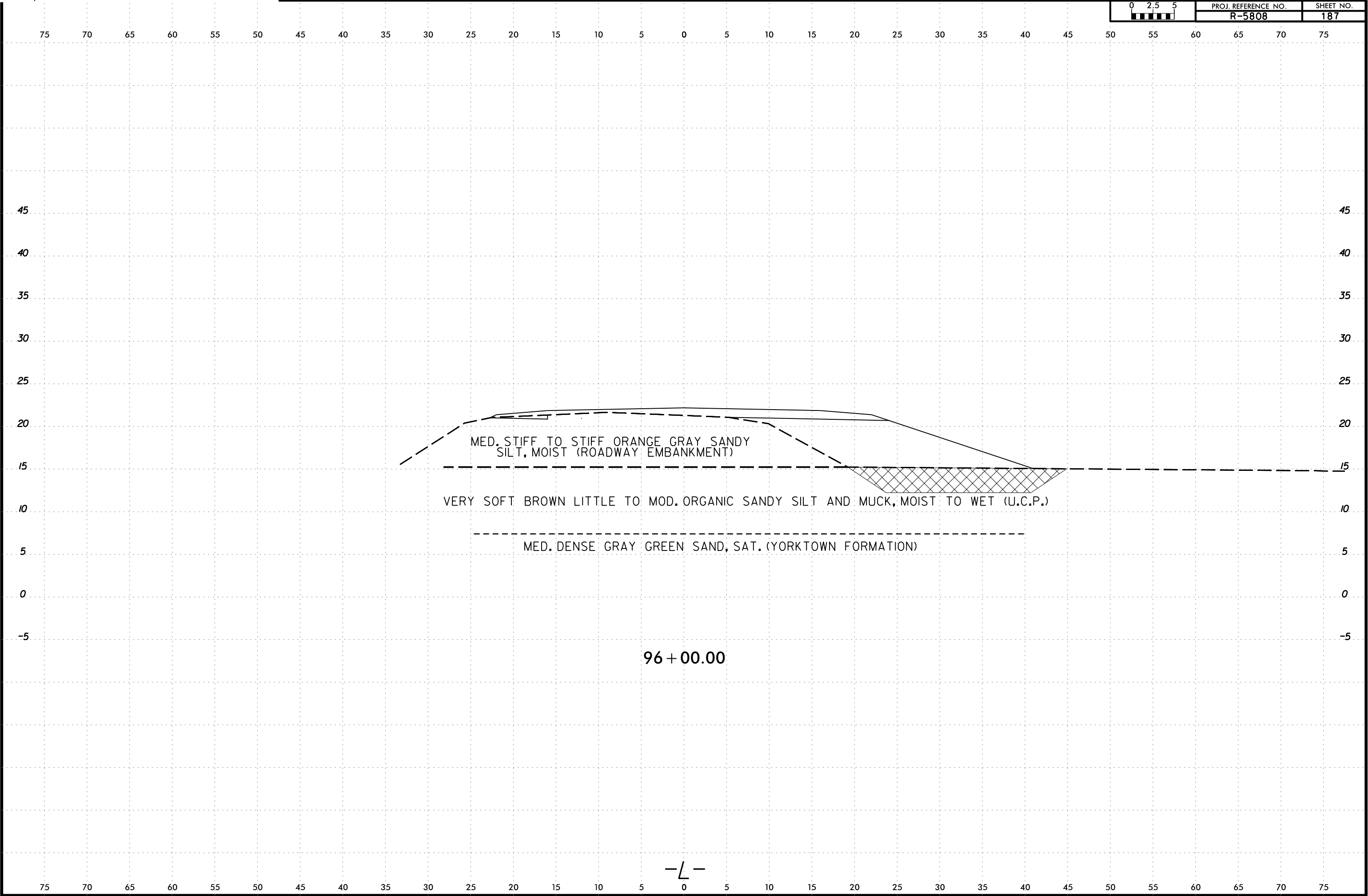
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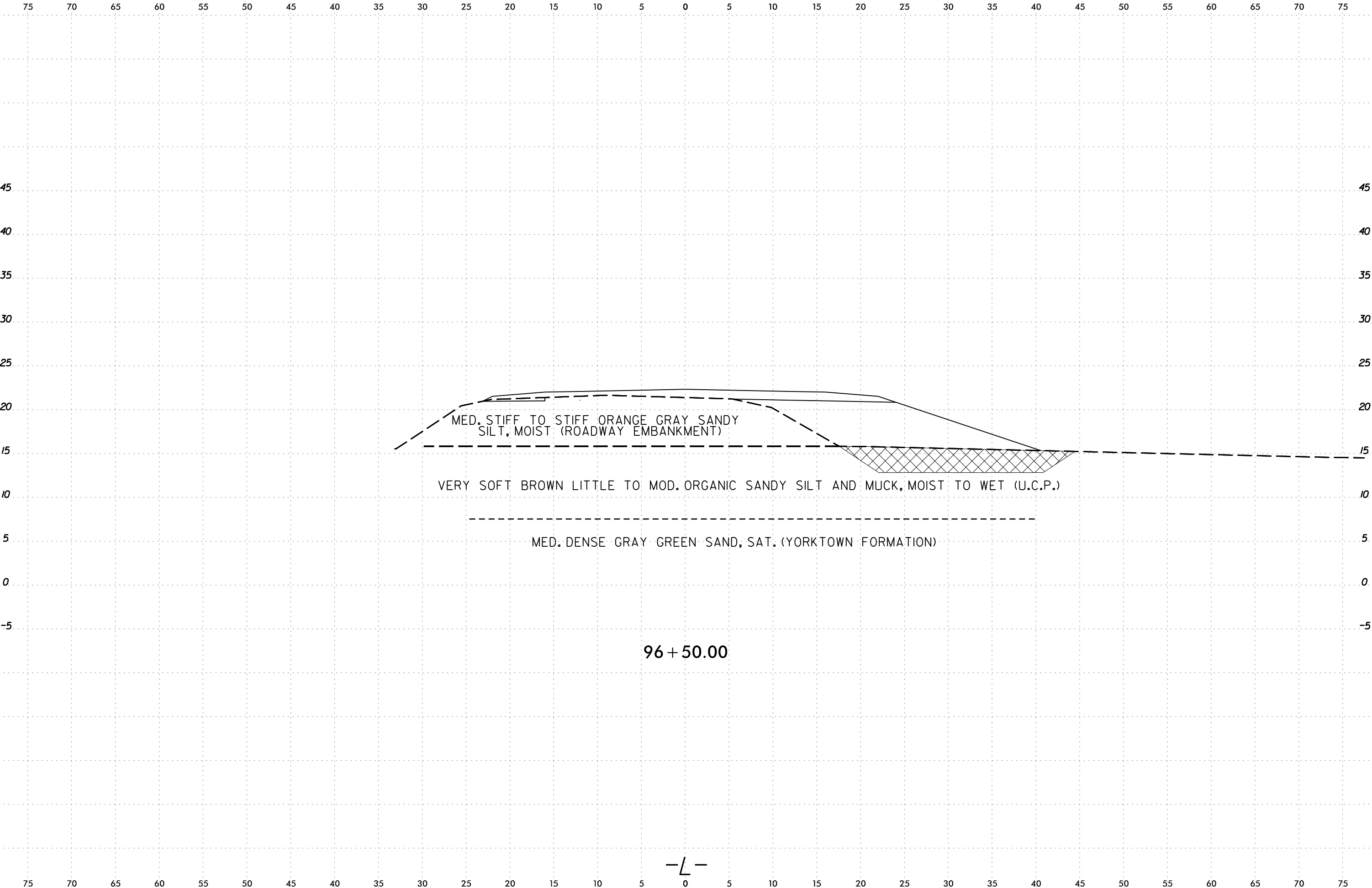
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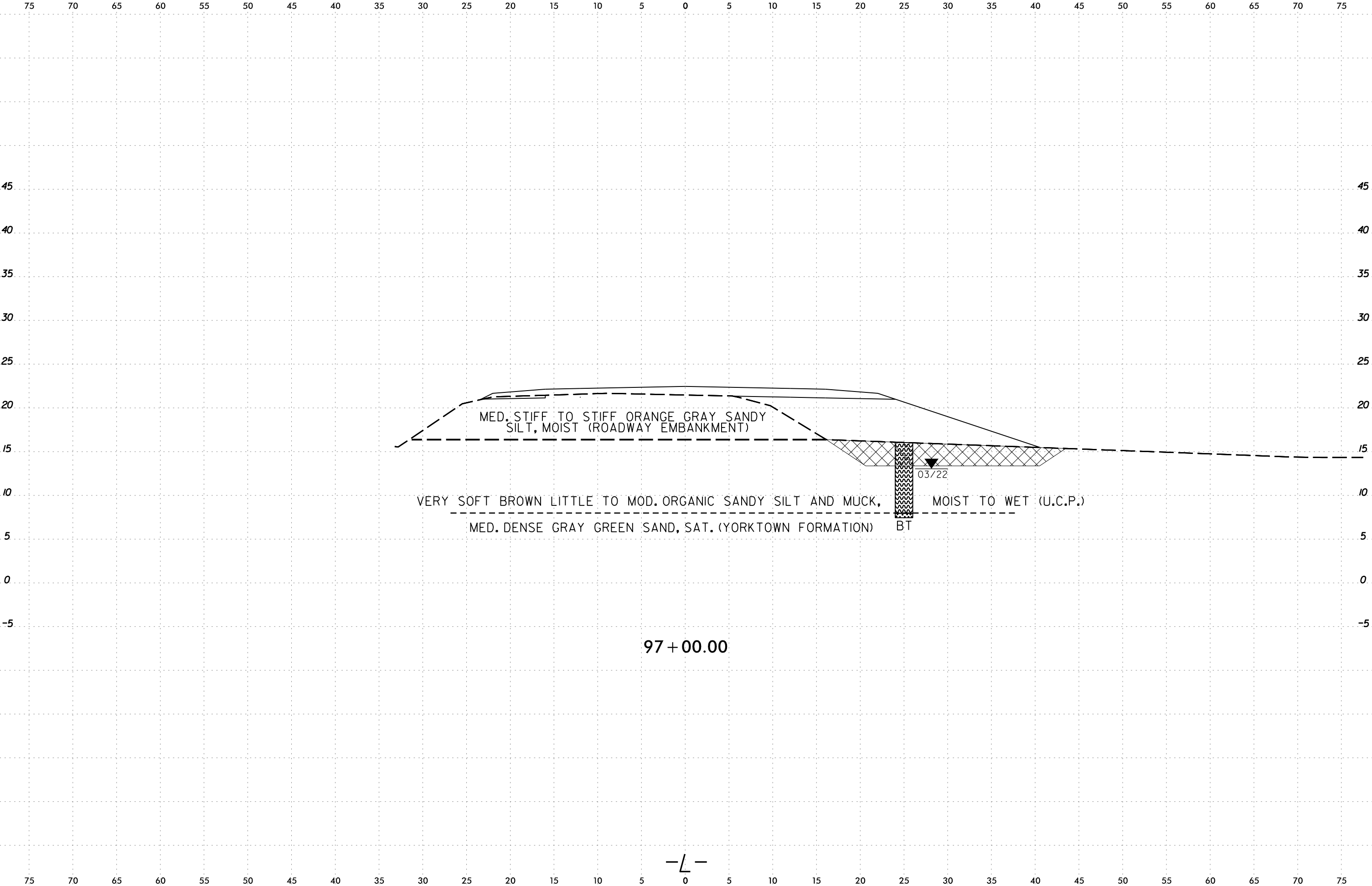


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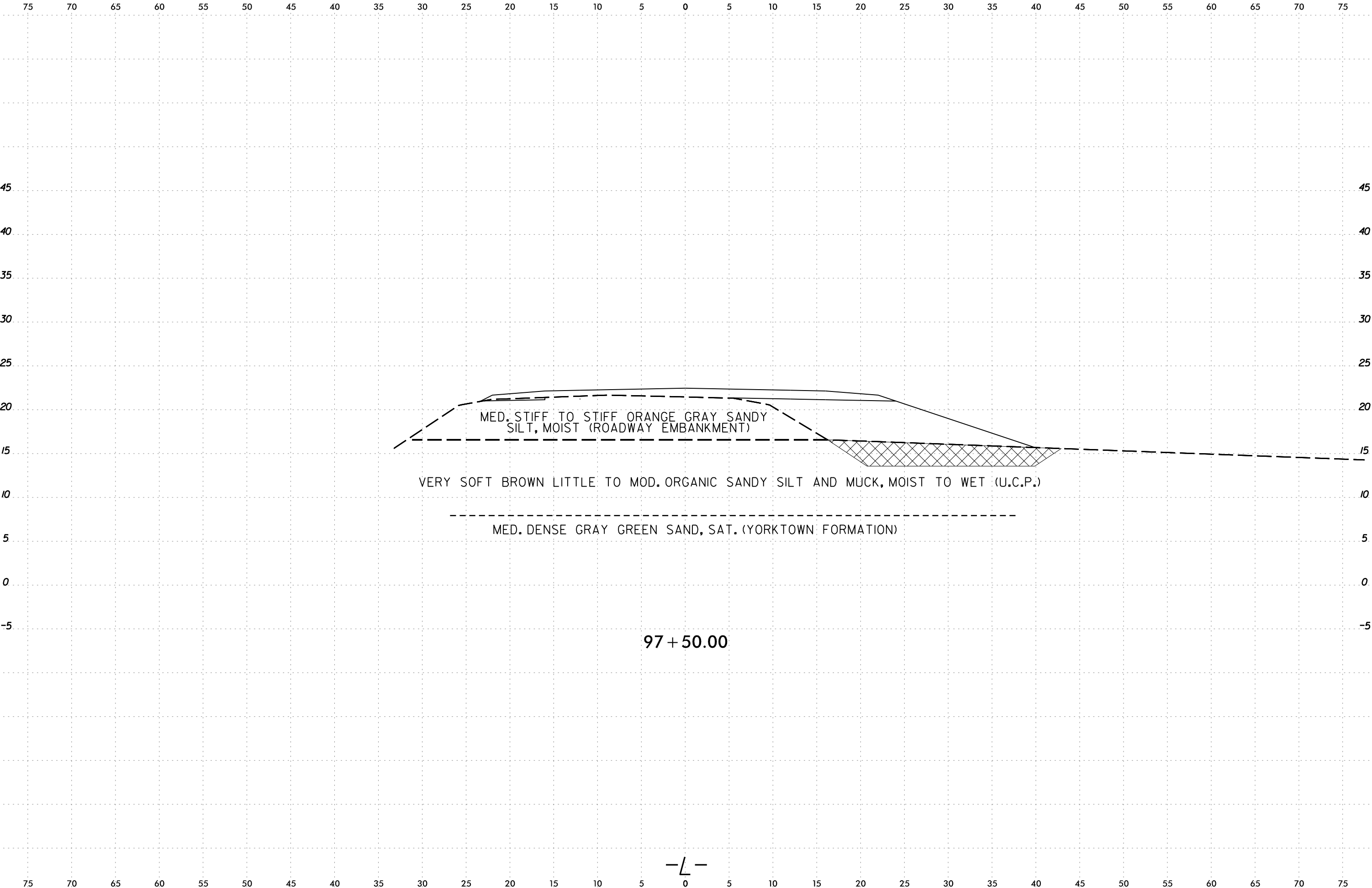
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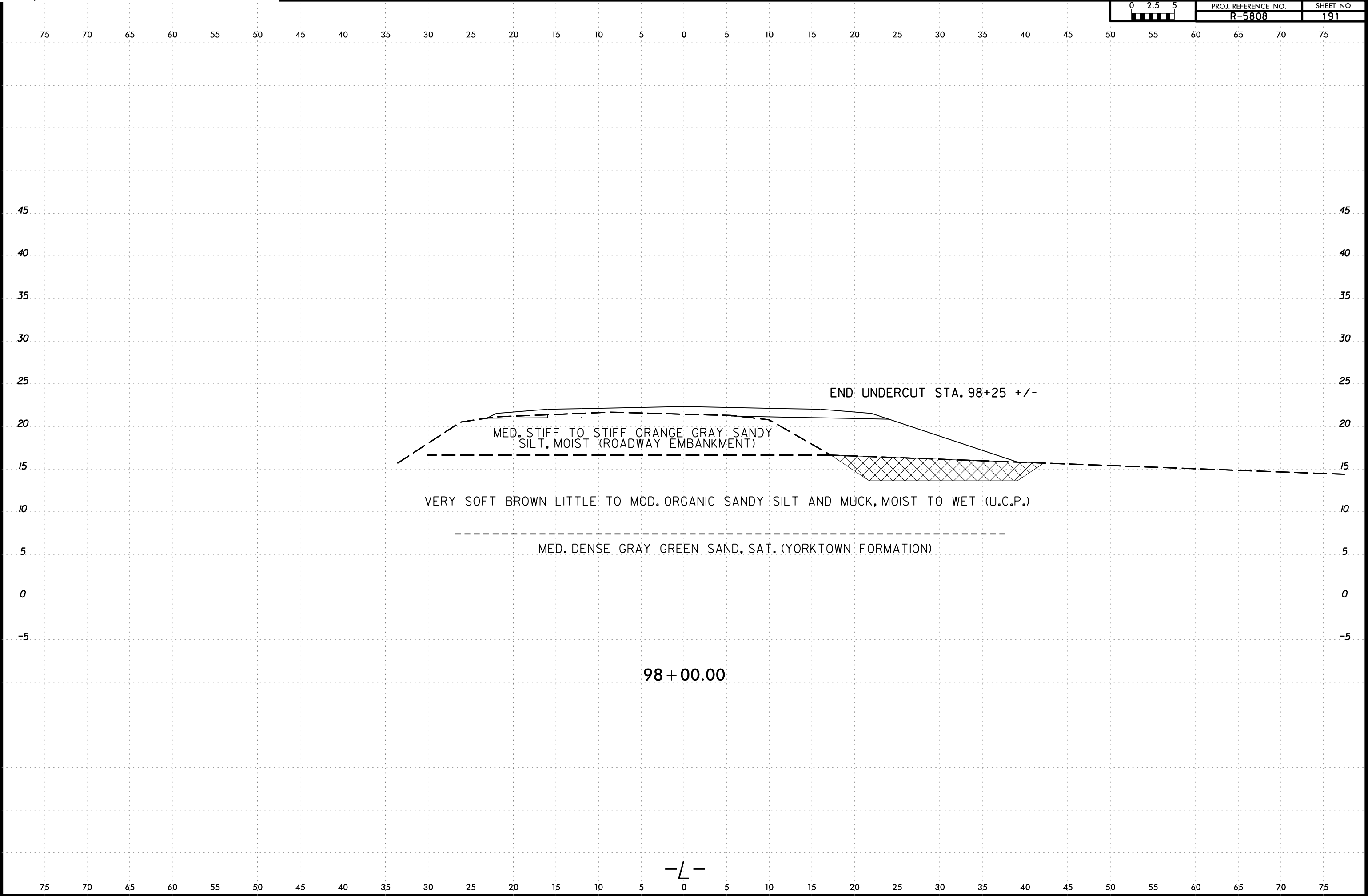
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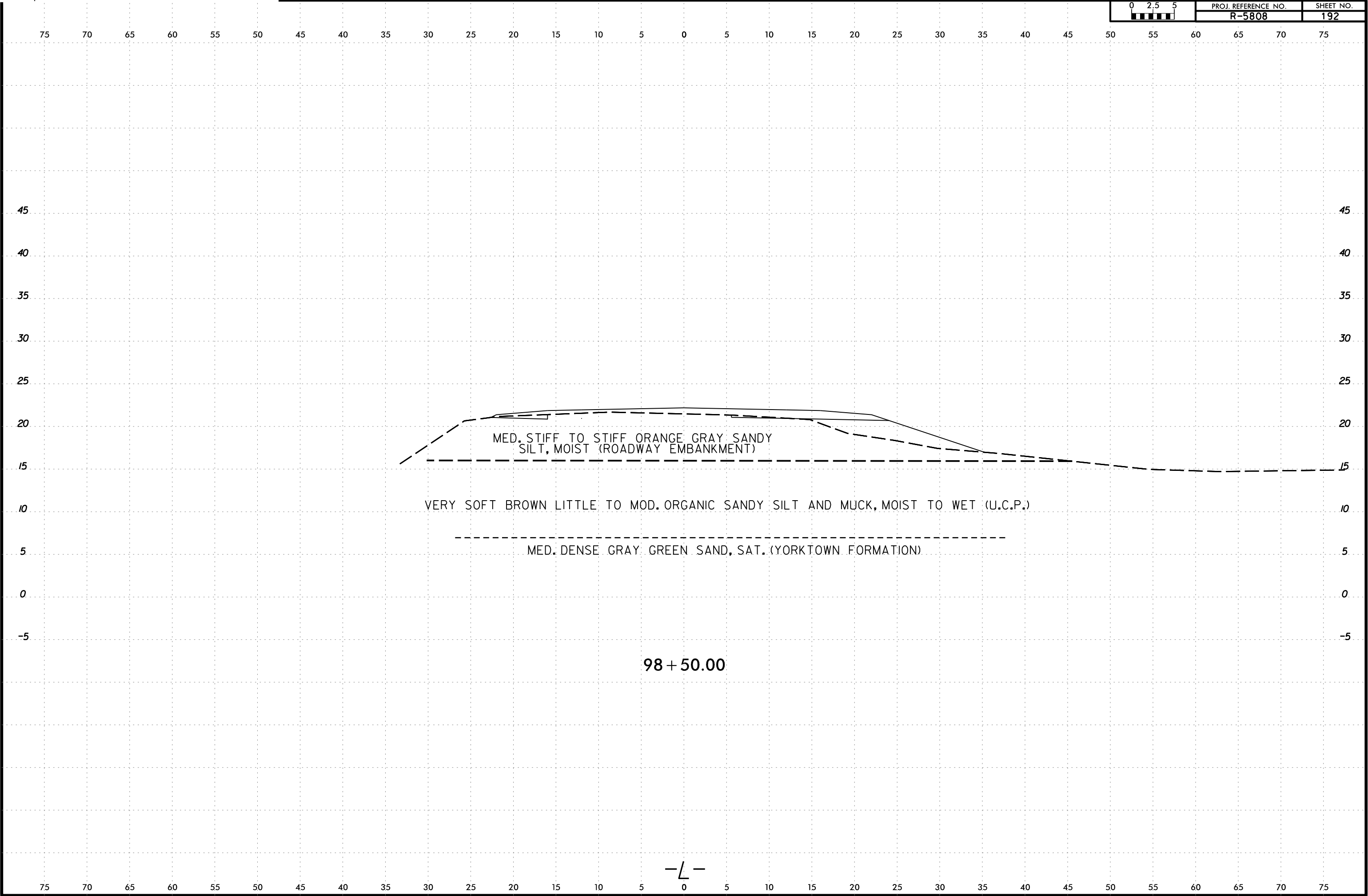
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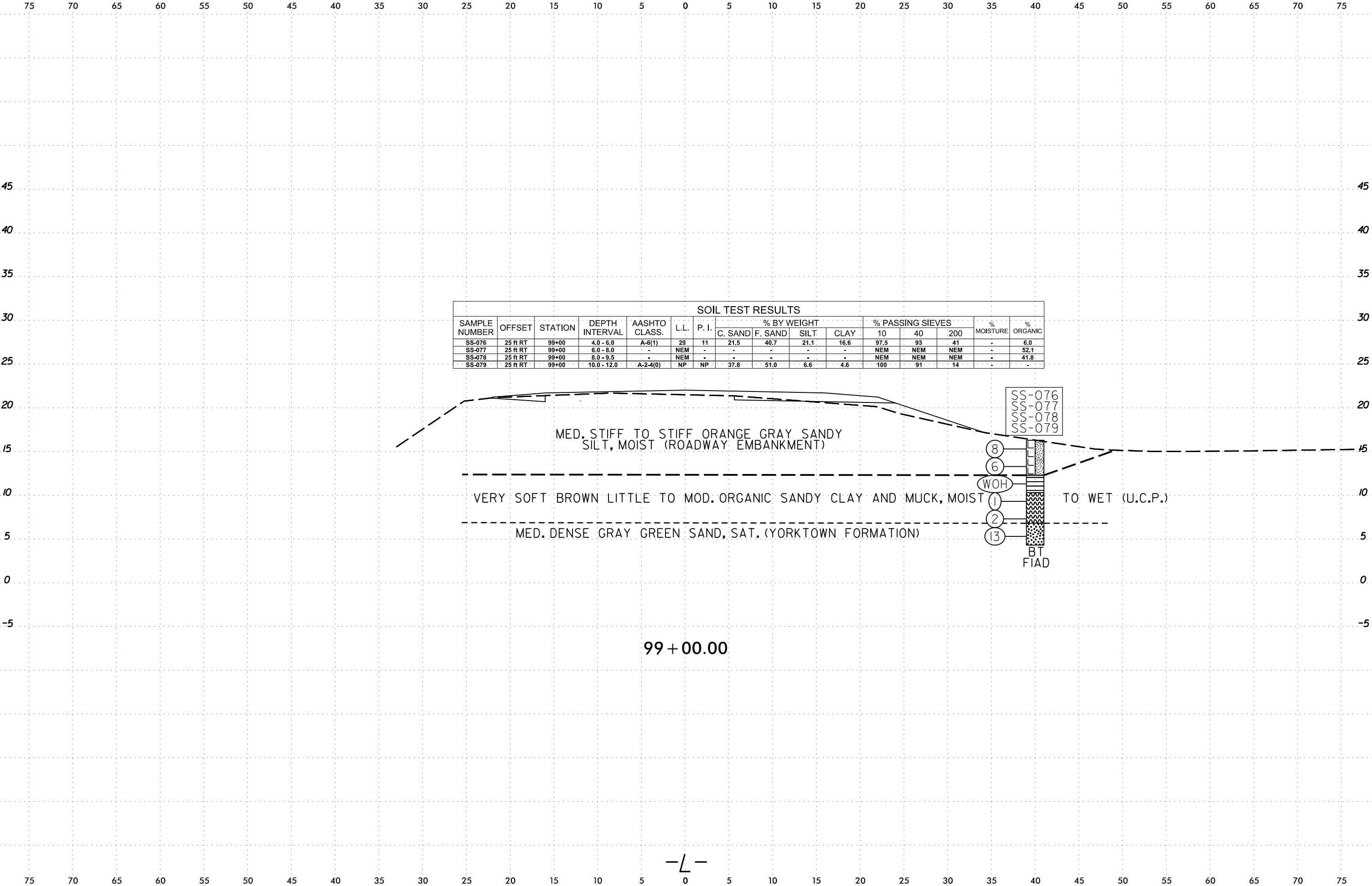
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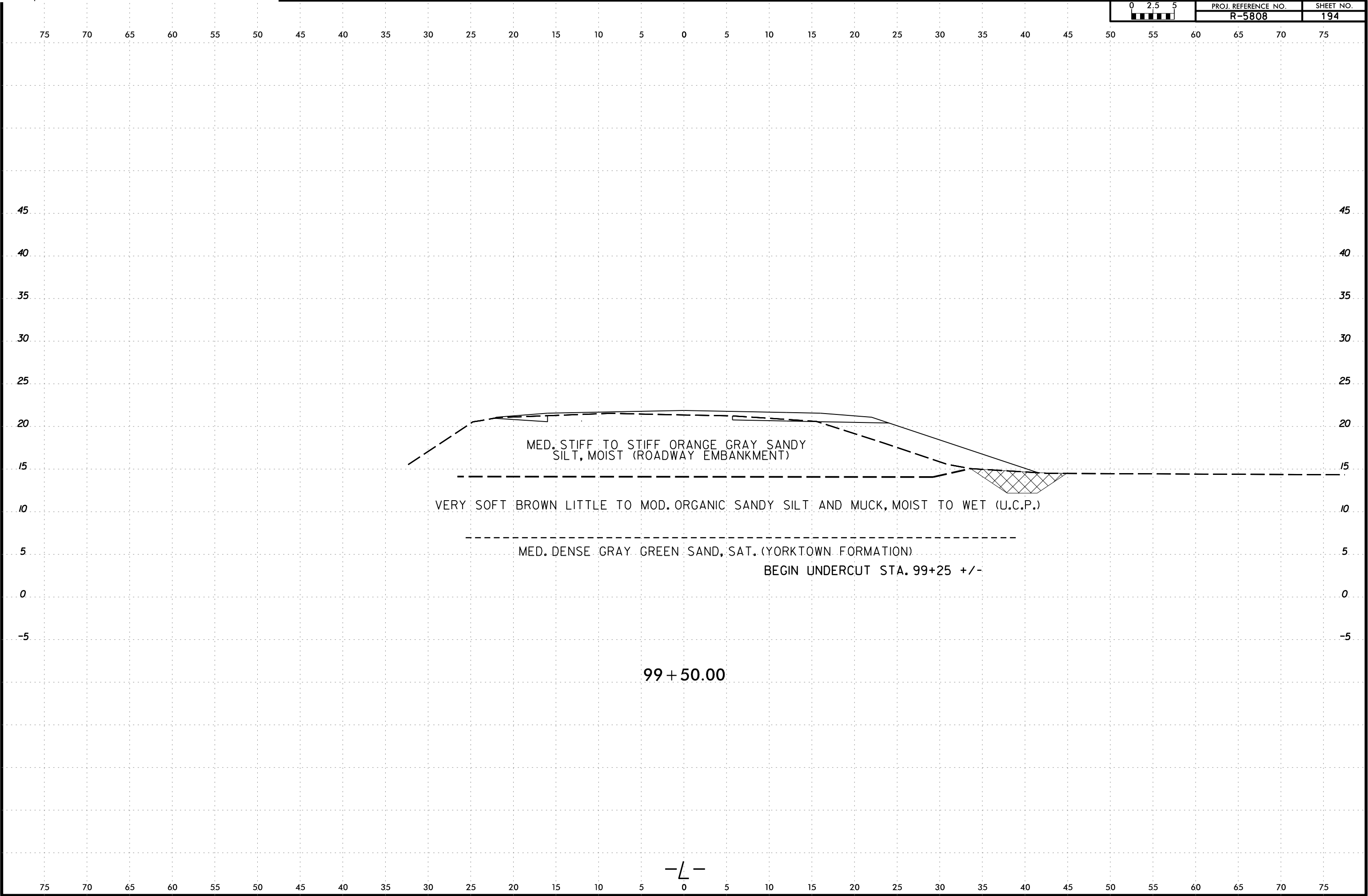
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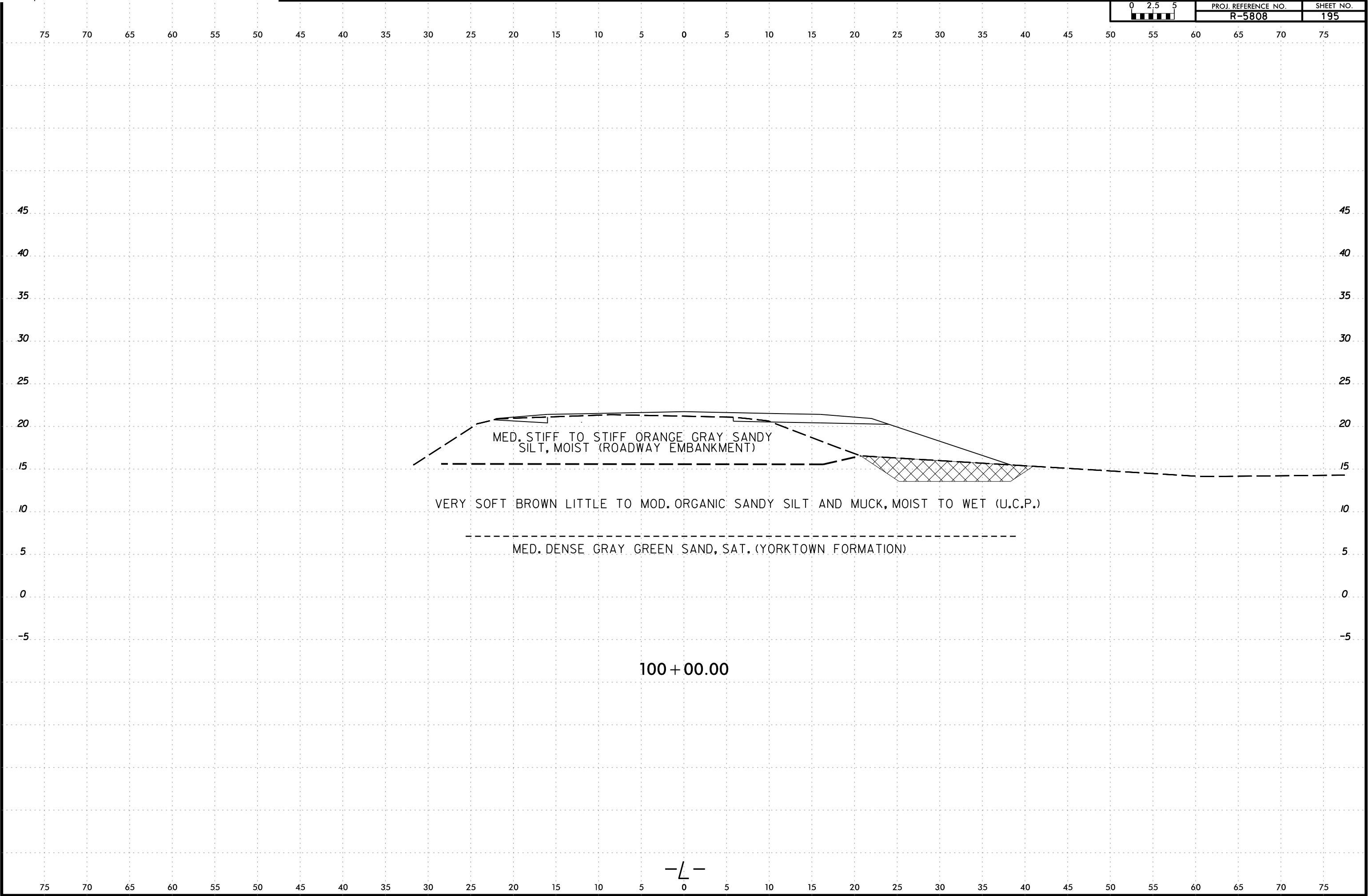
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AT CAT-1 STONE-18

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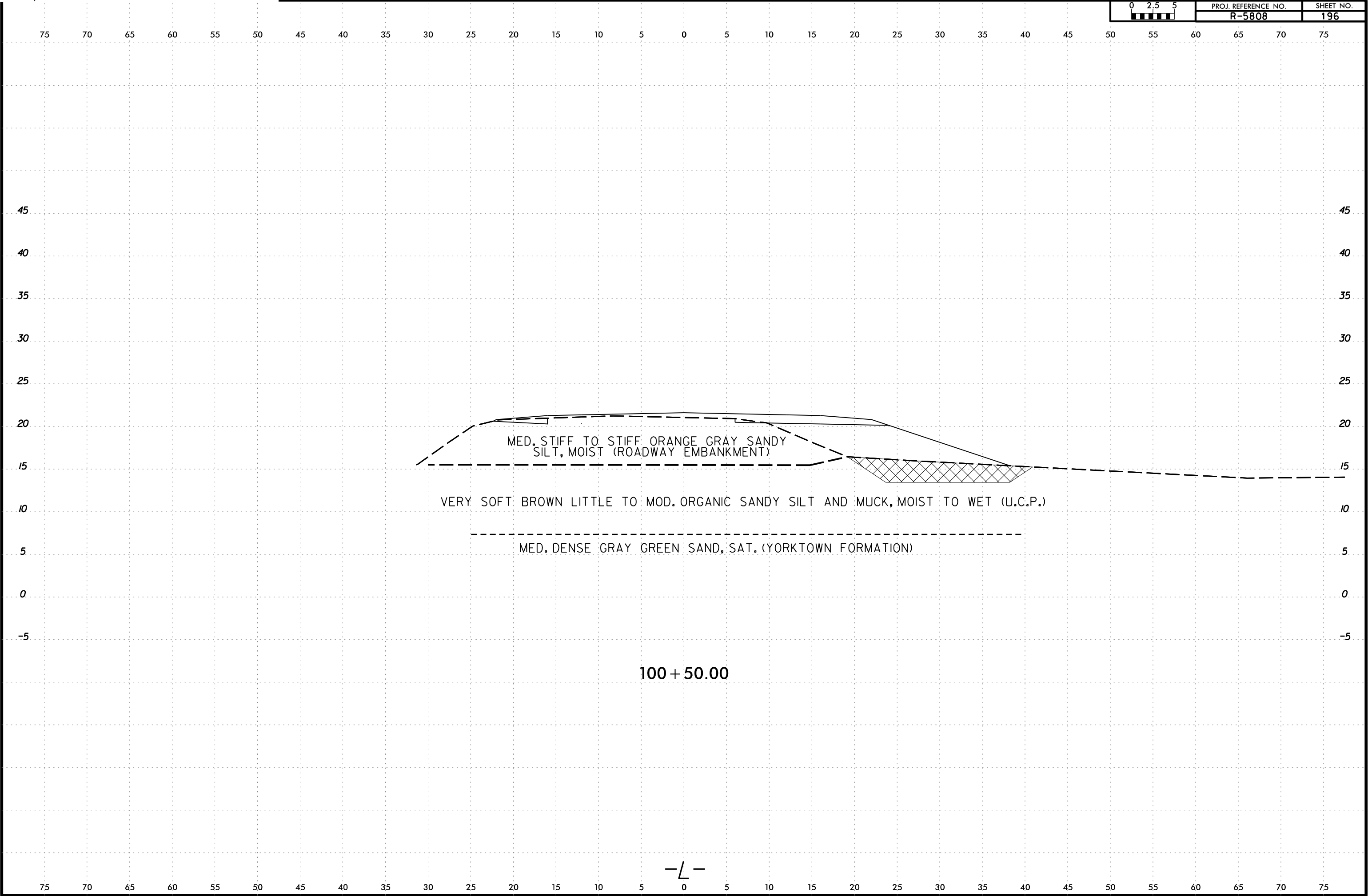


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6/23/16

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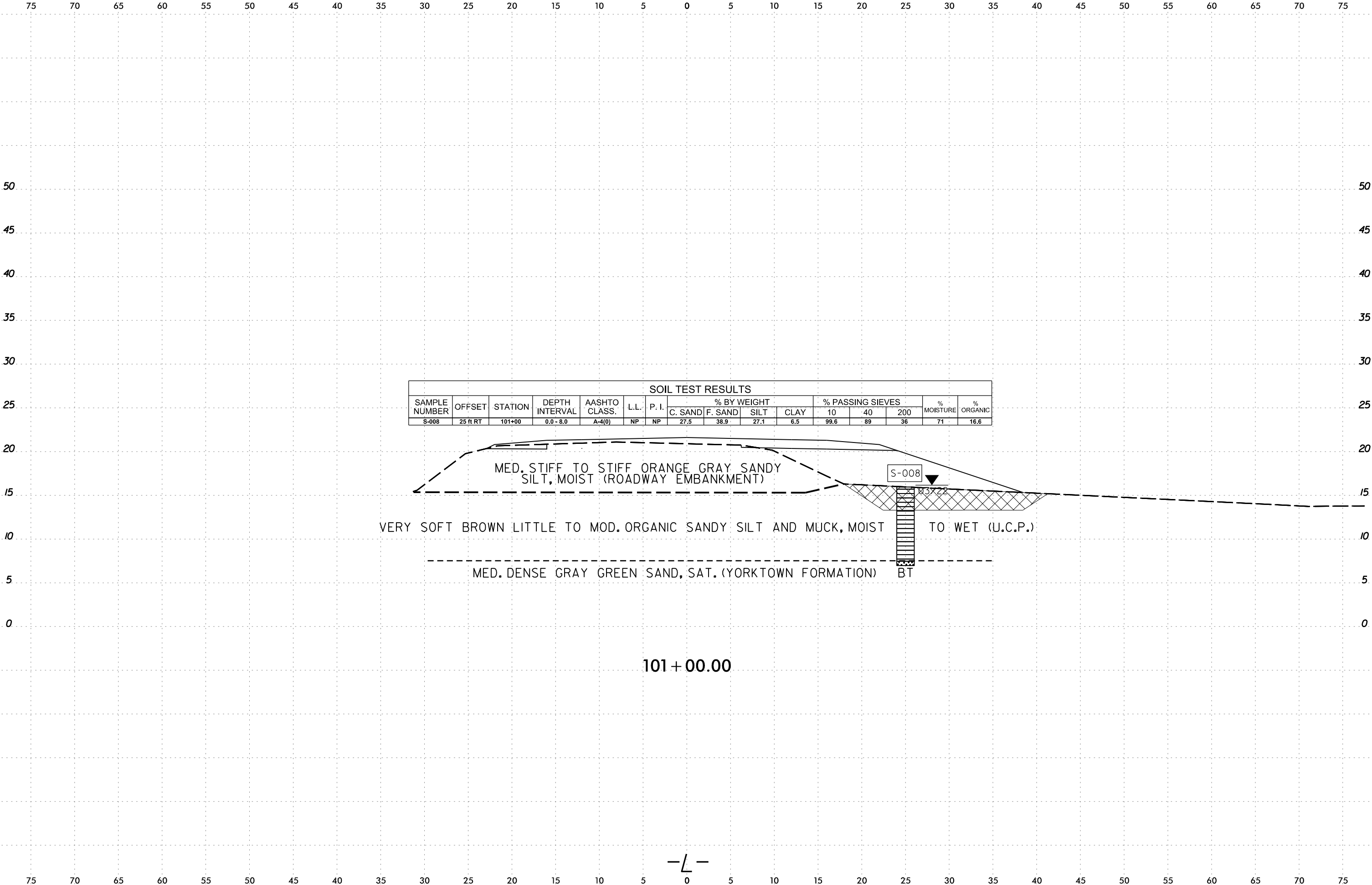
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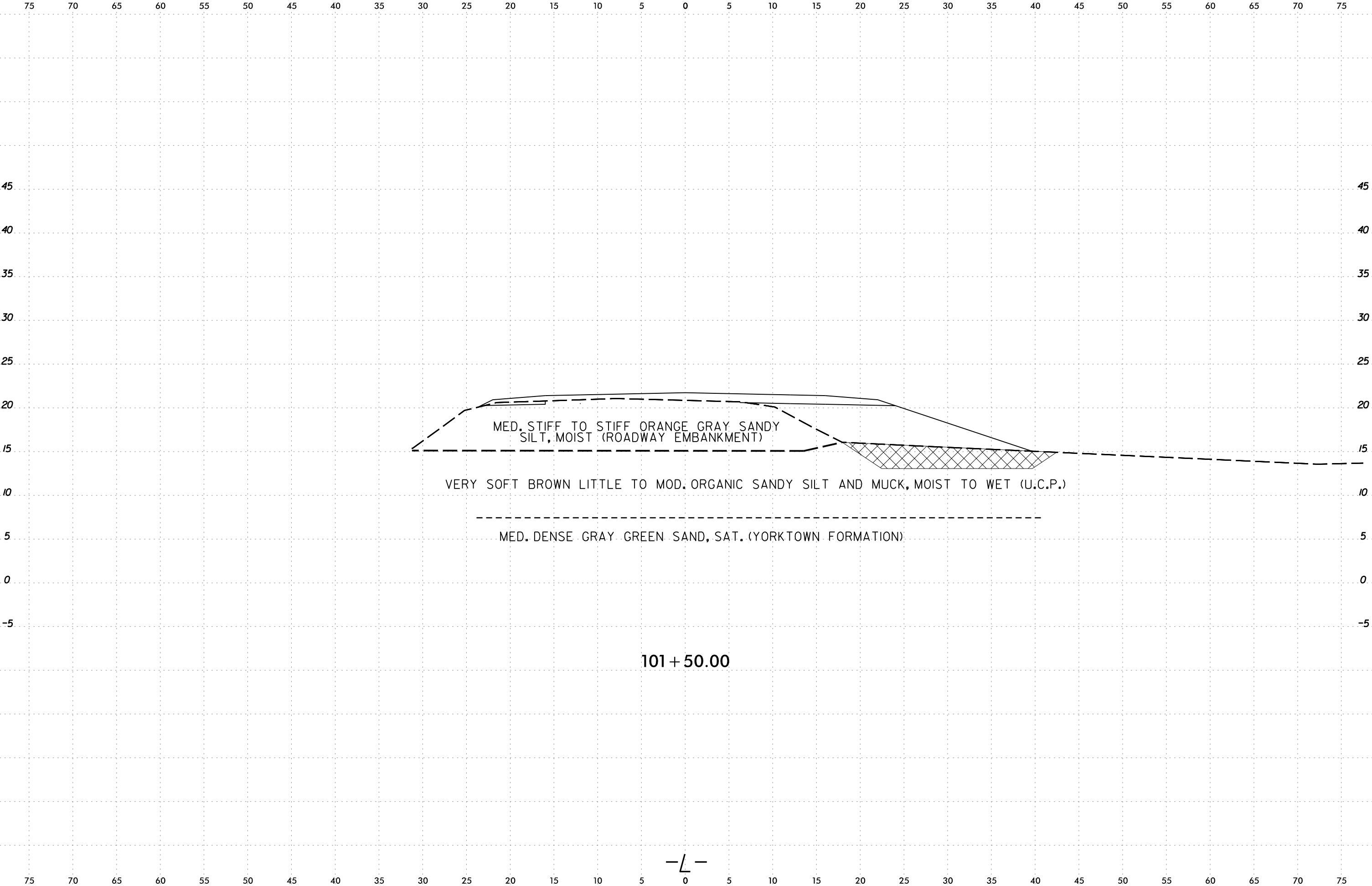
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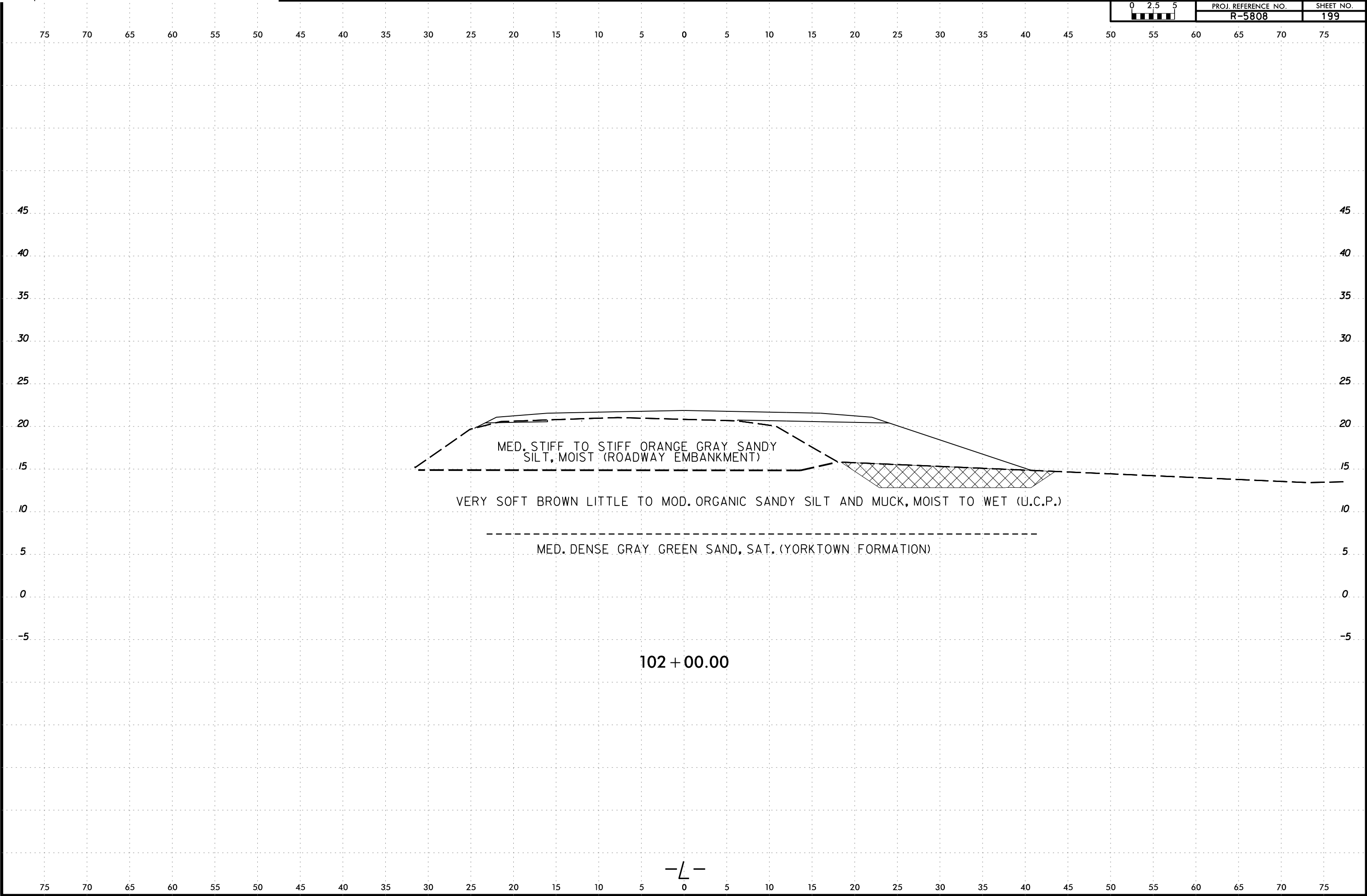
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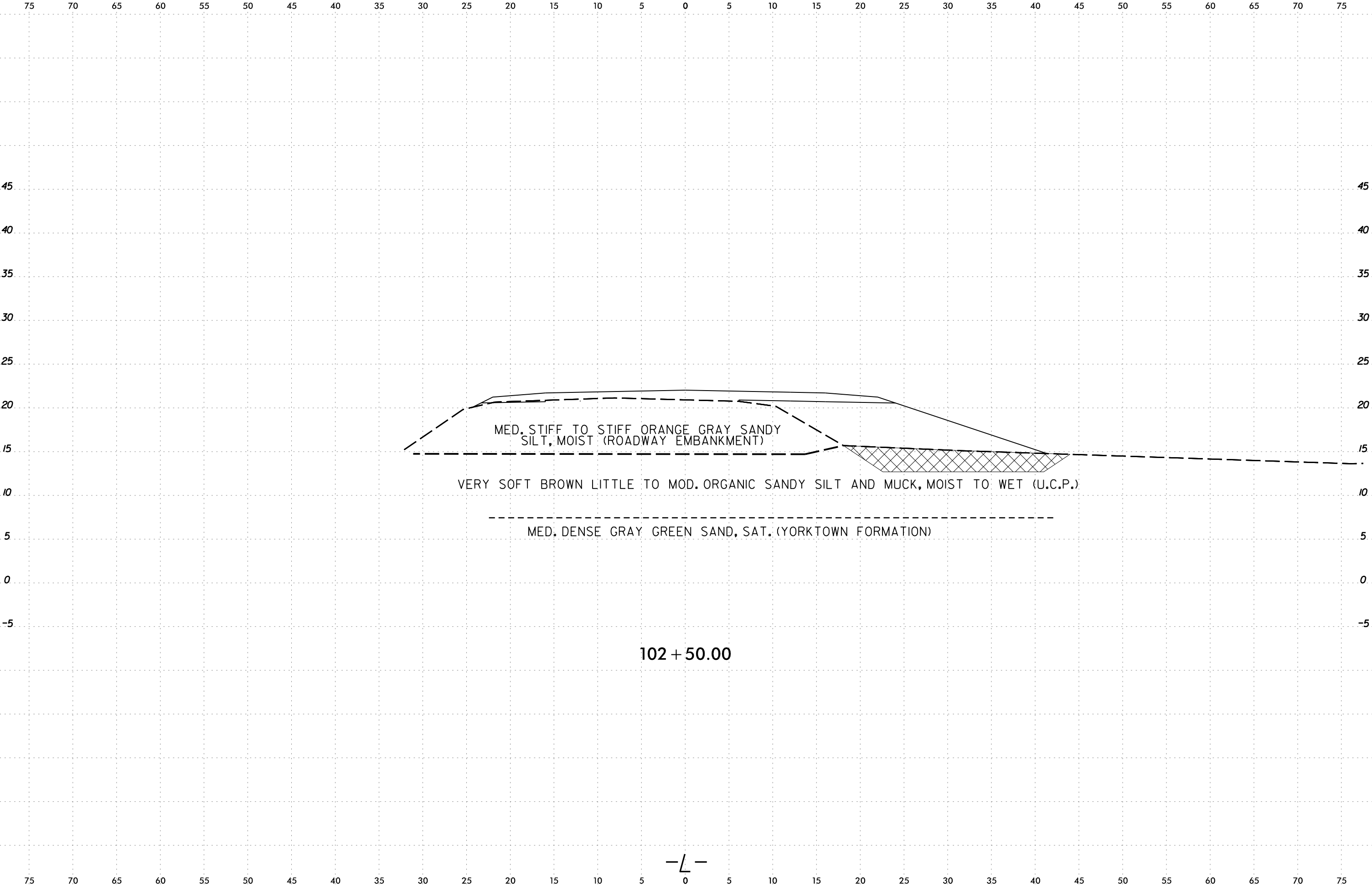
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AT CAT-1 STONE-18

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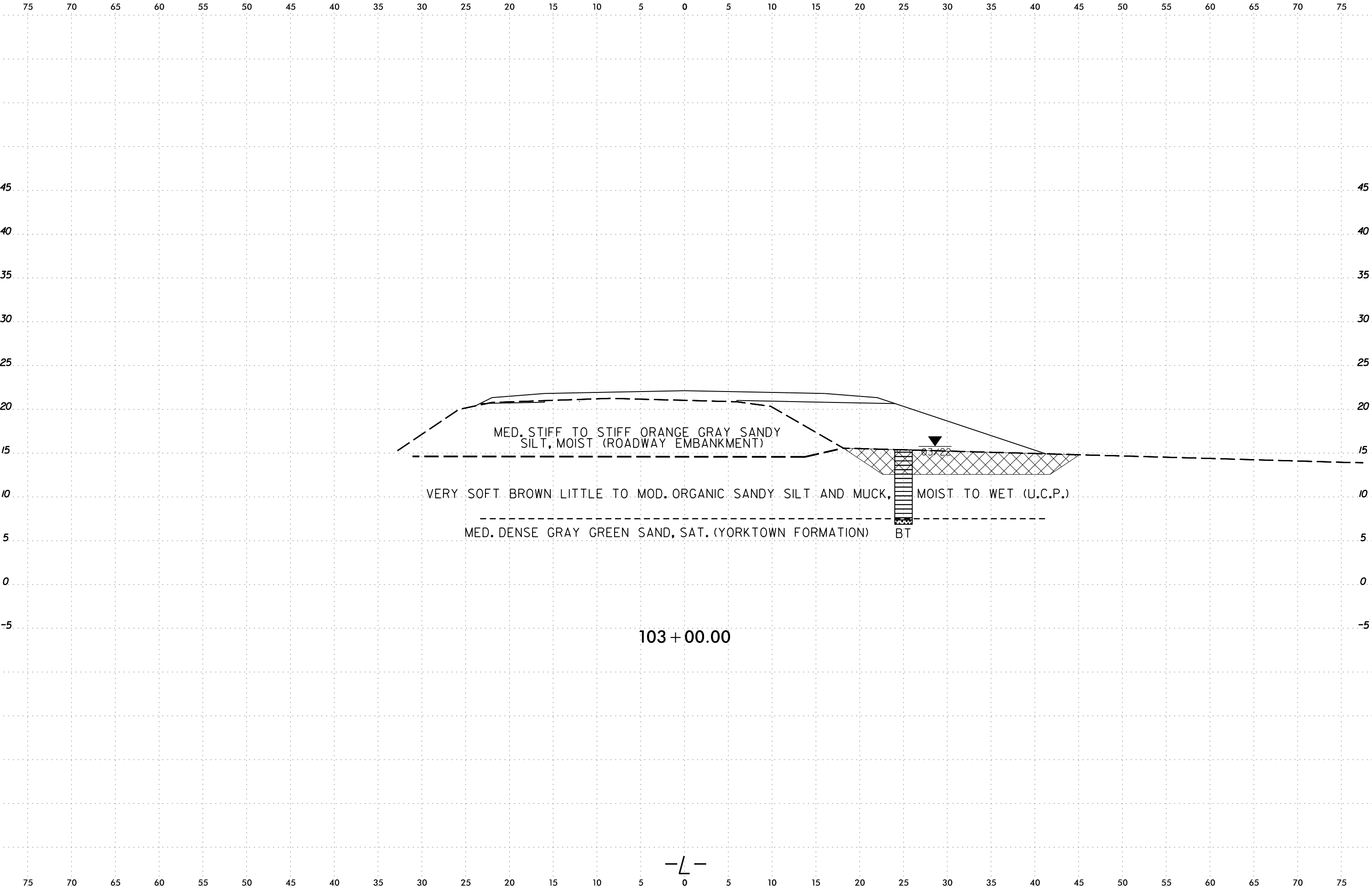


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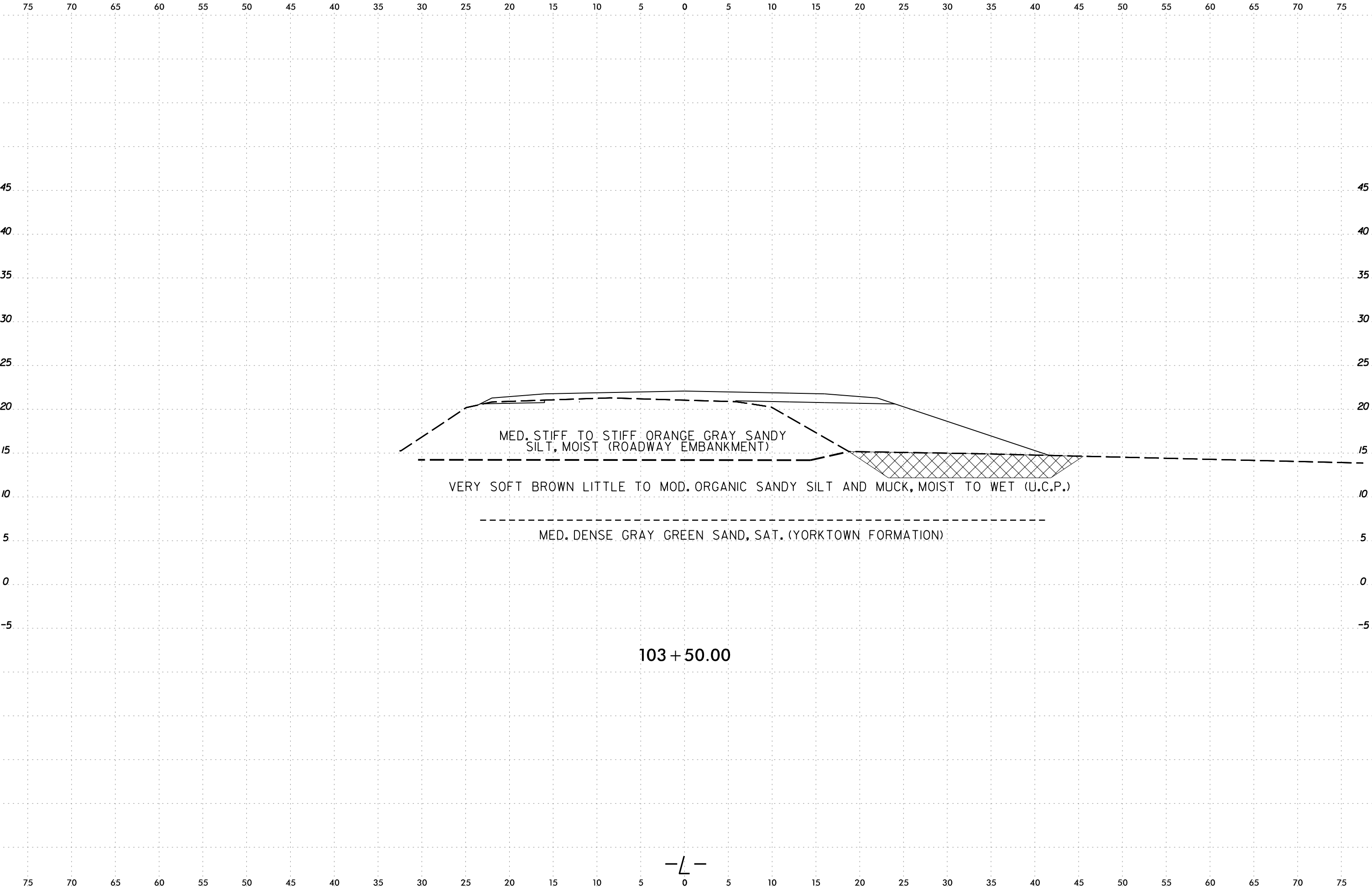
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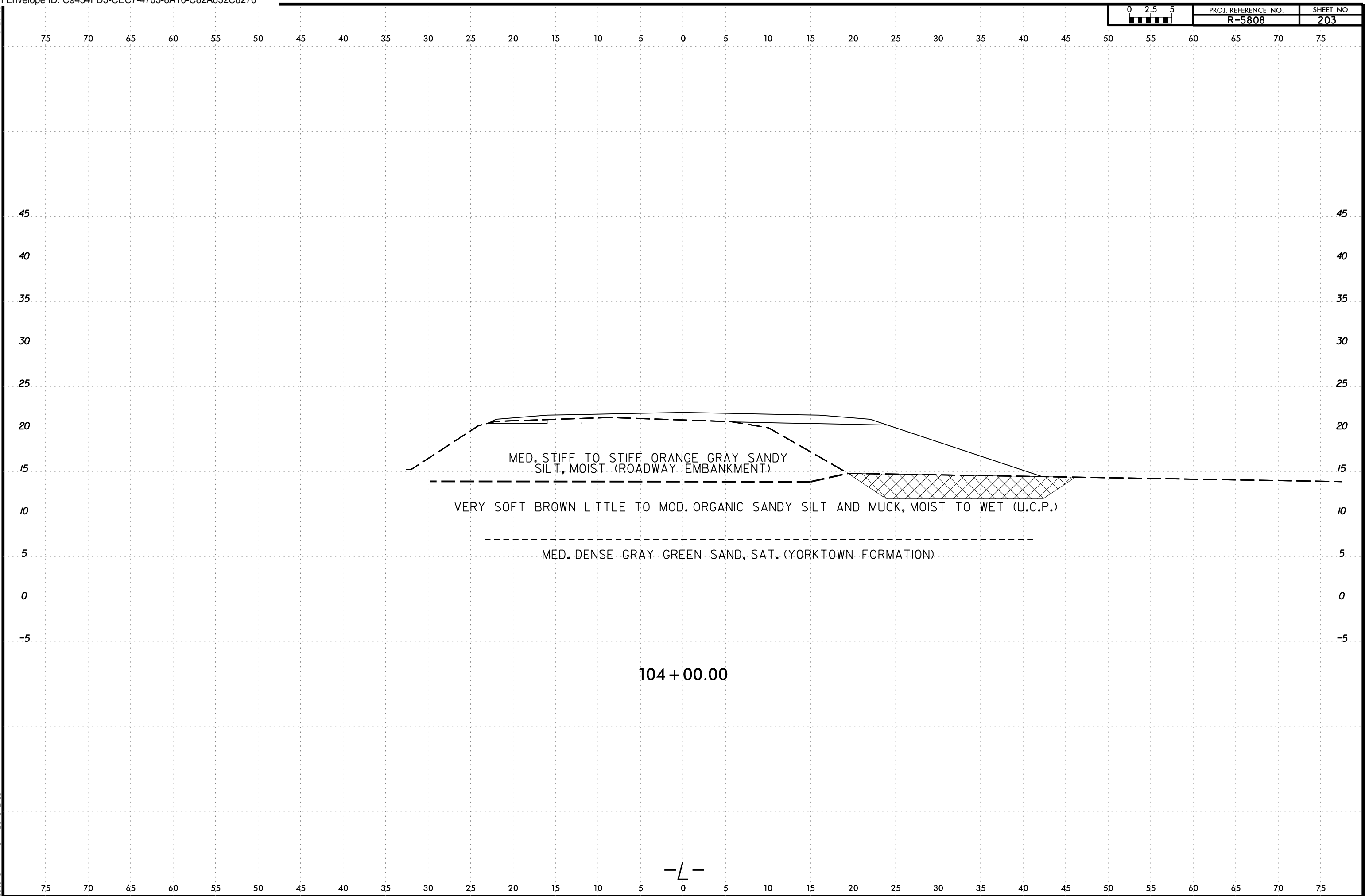


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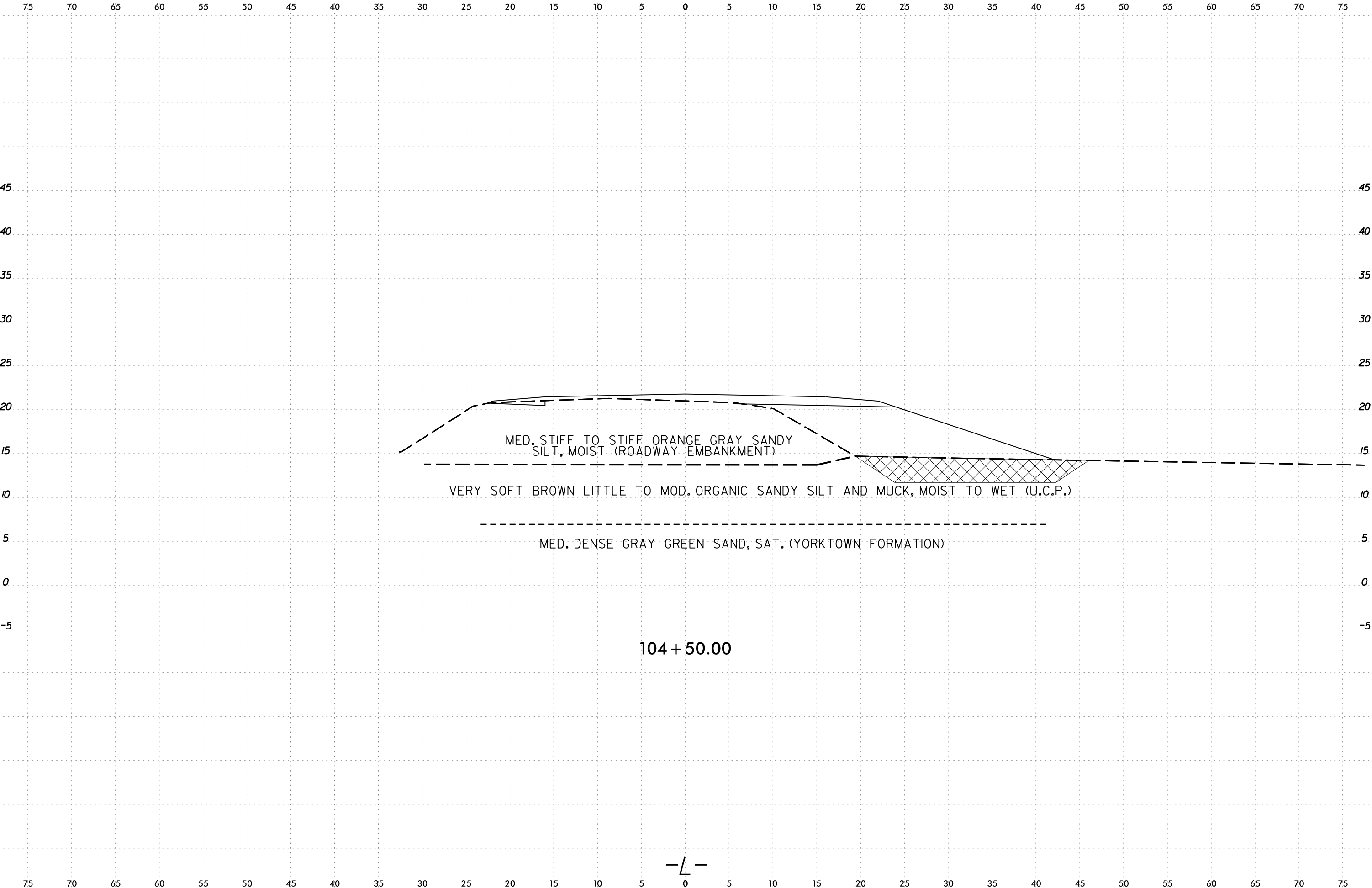




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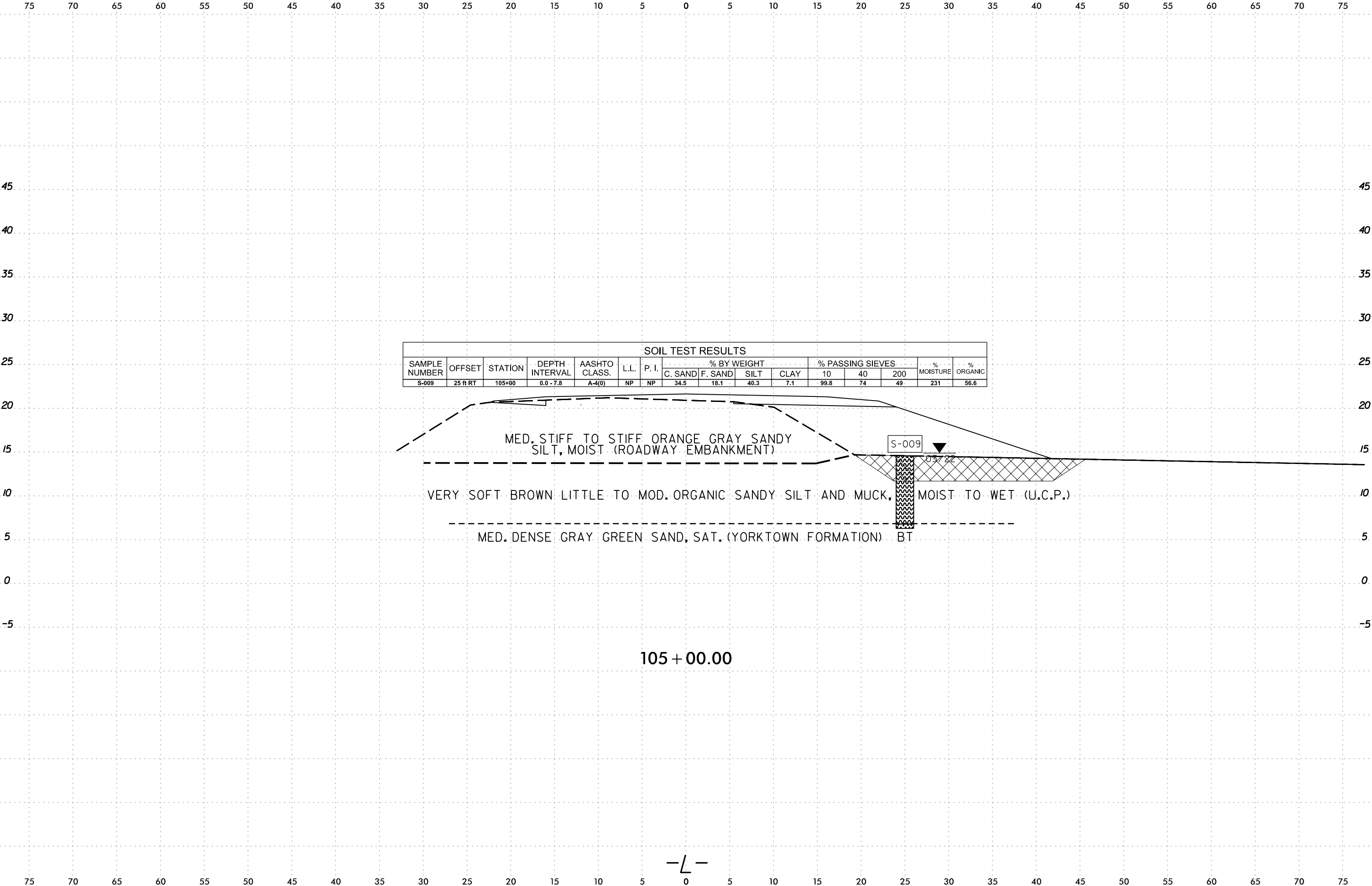


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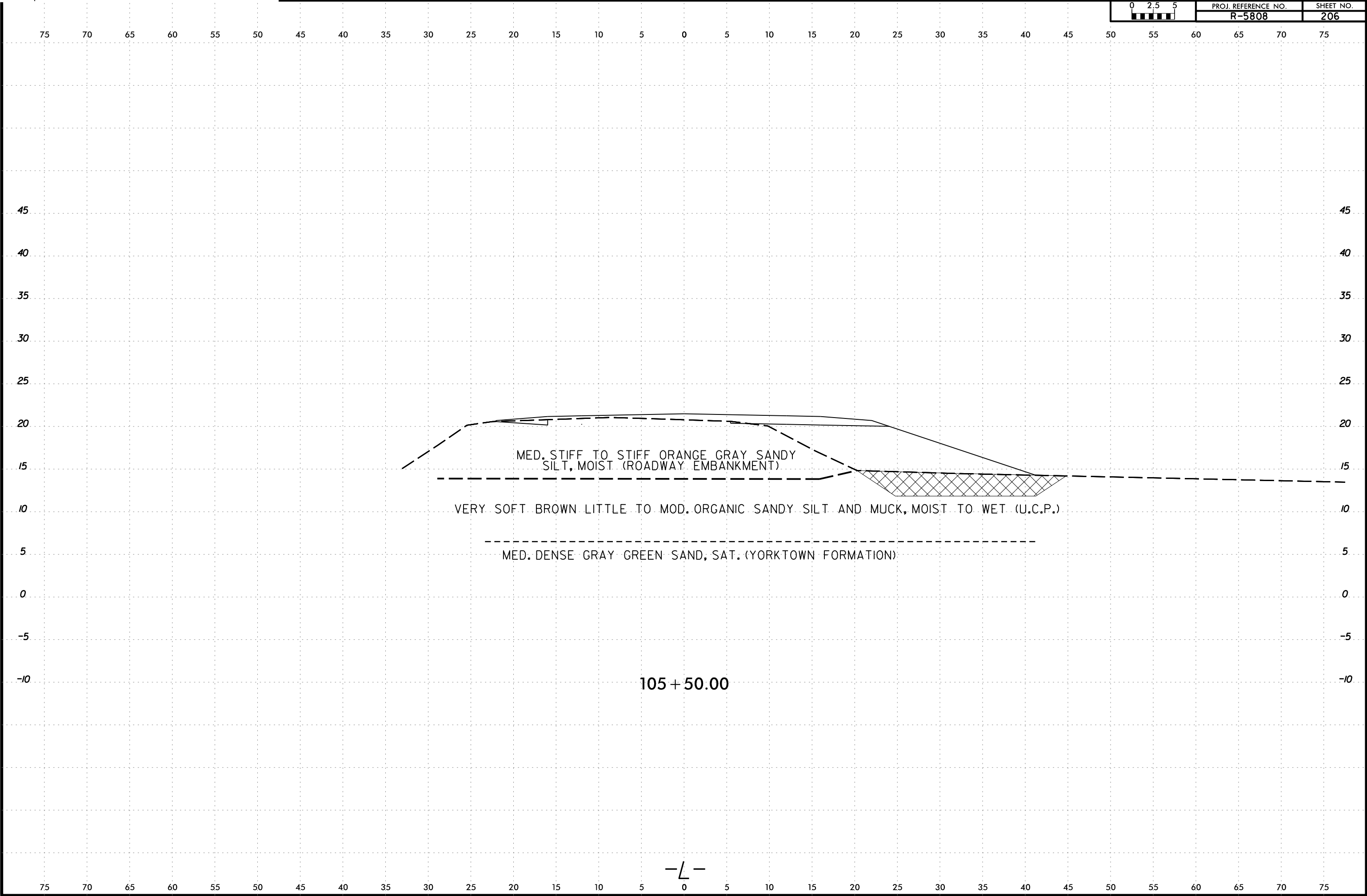
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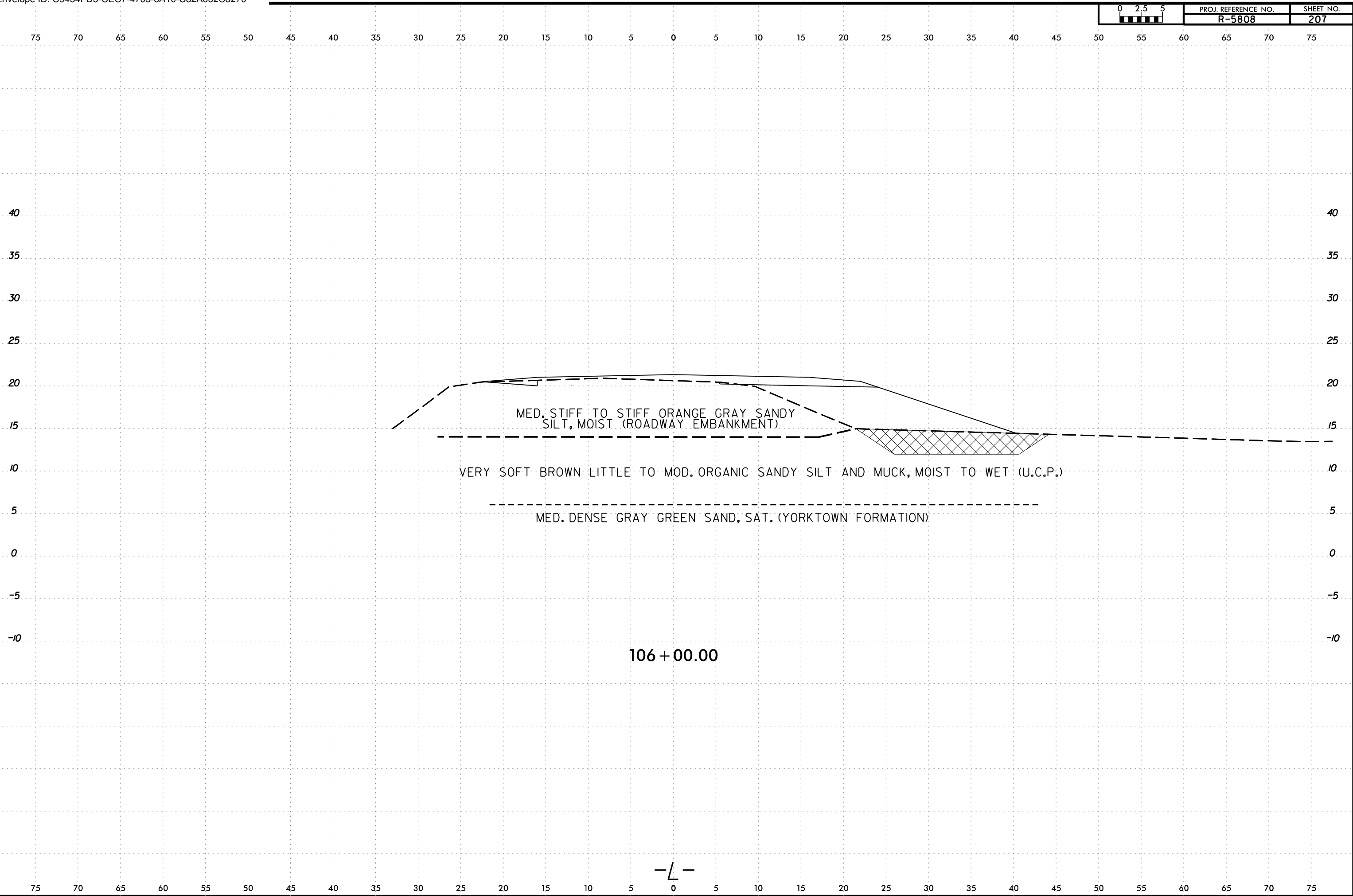


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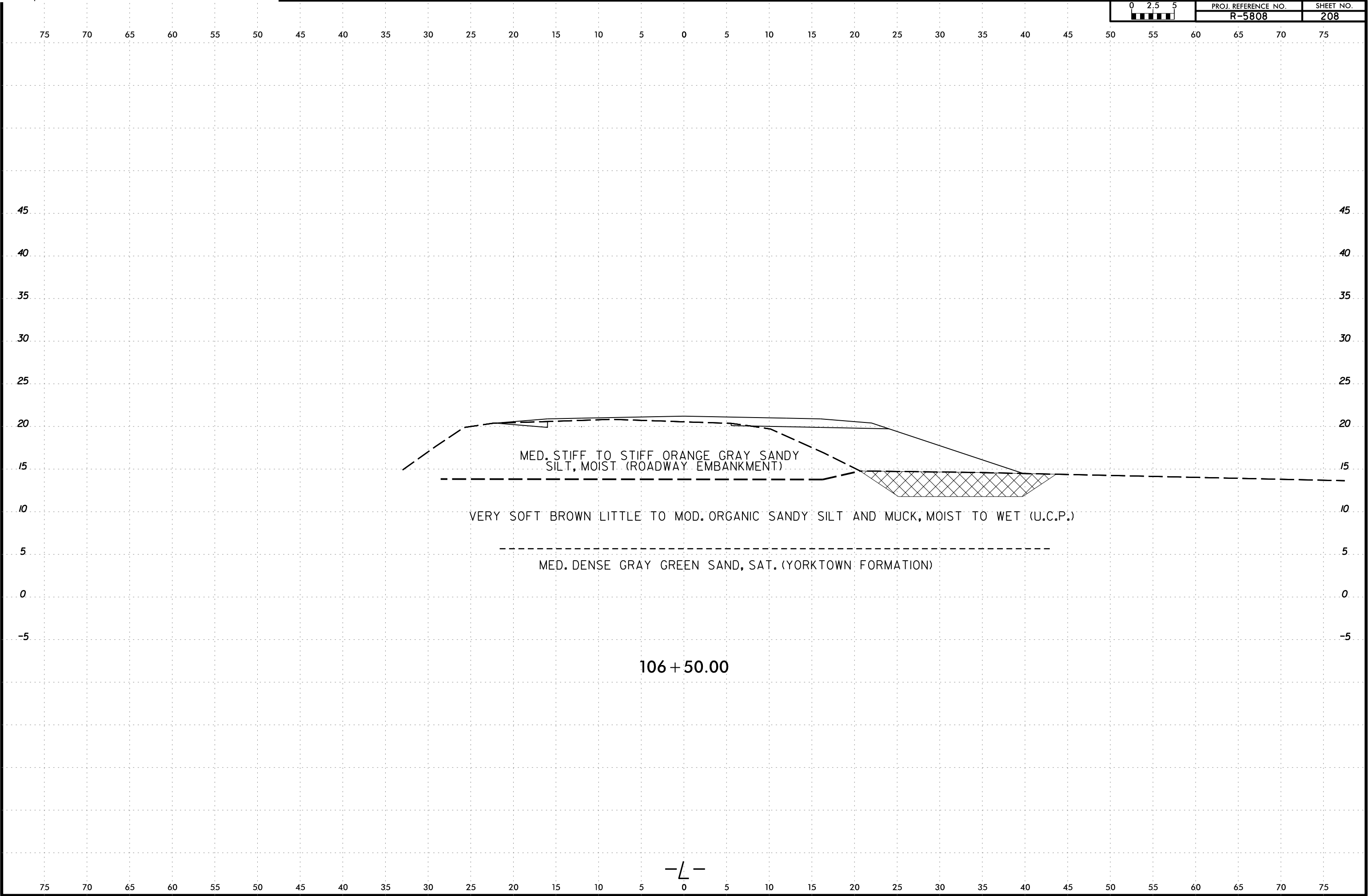




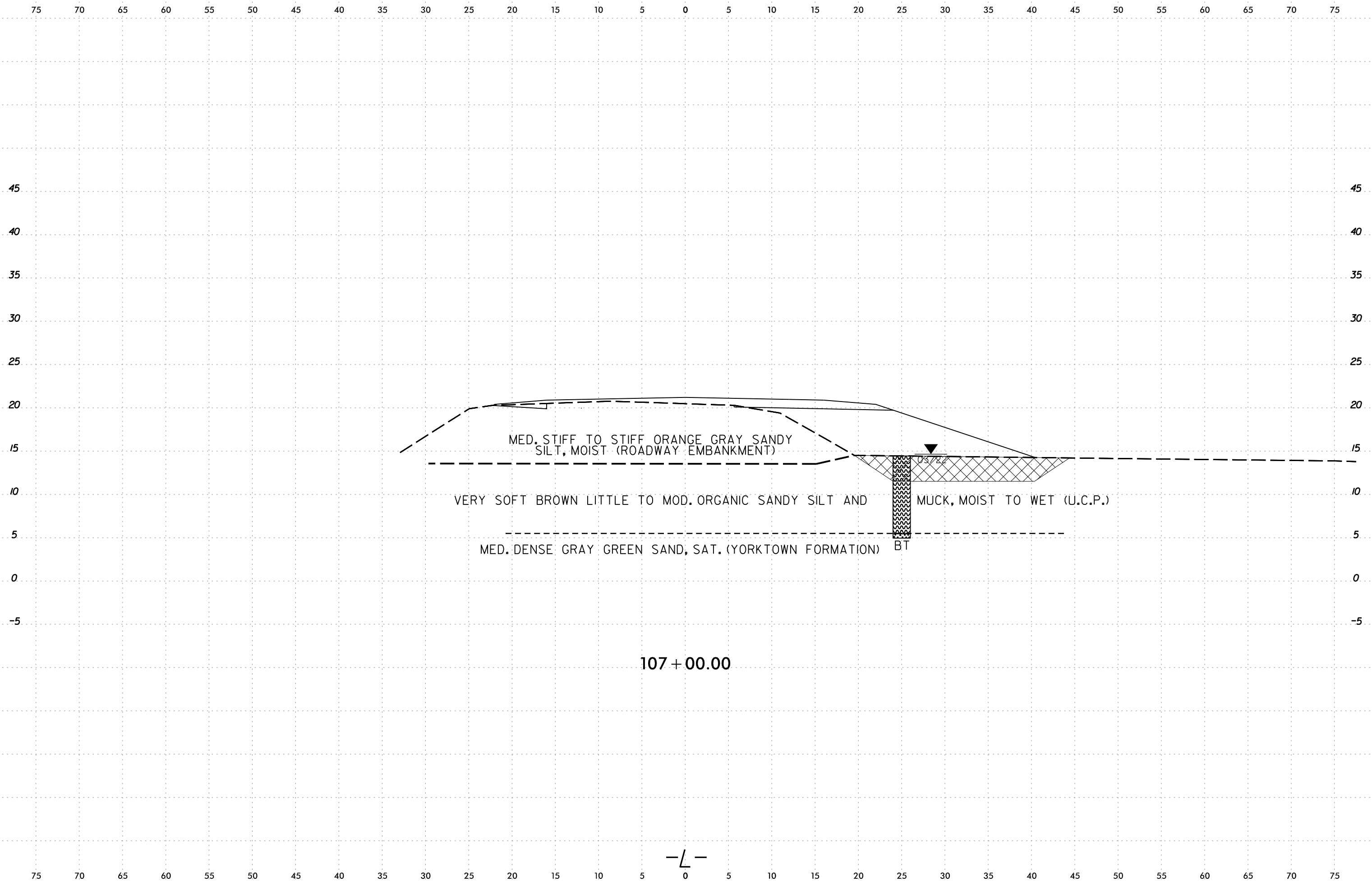
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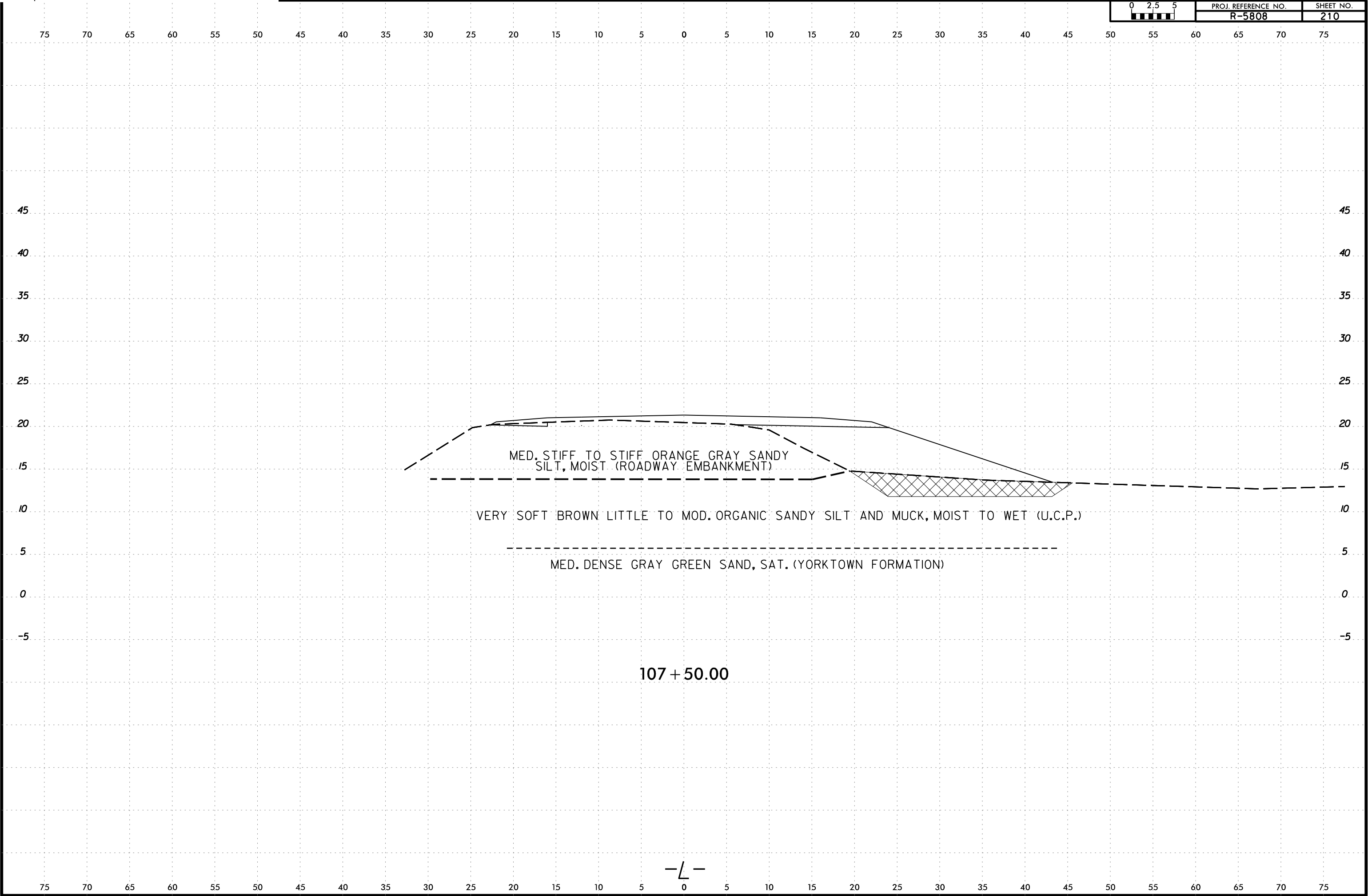
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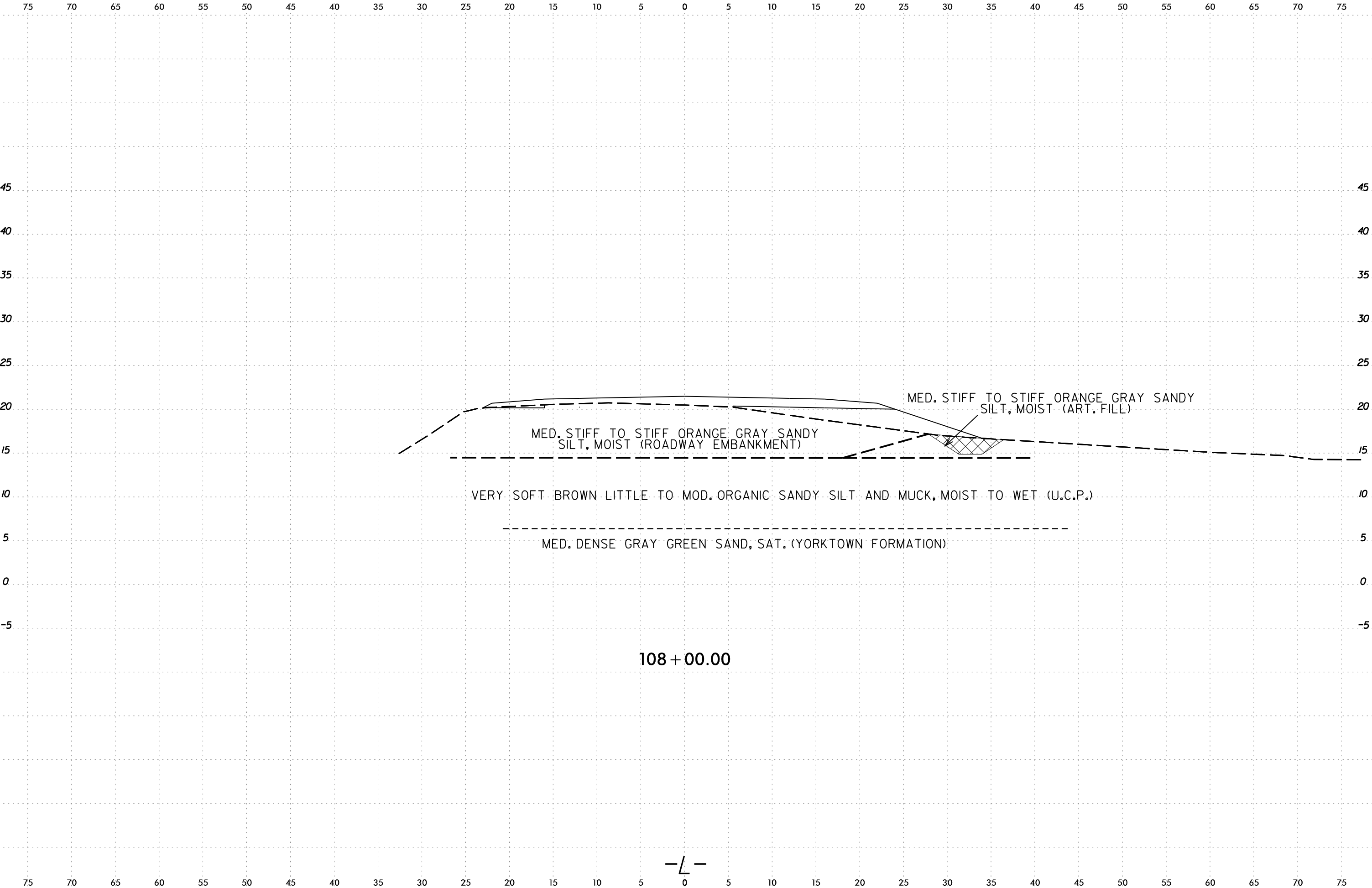
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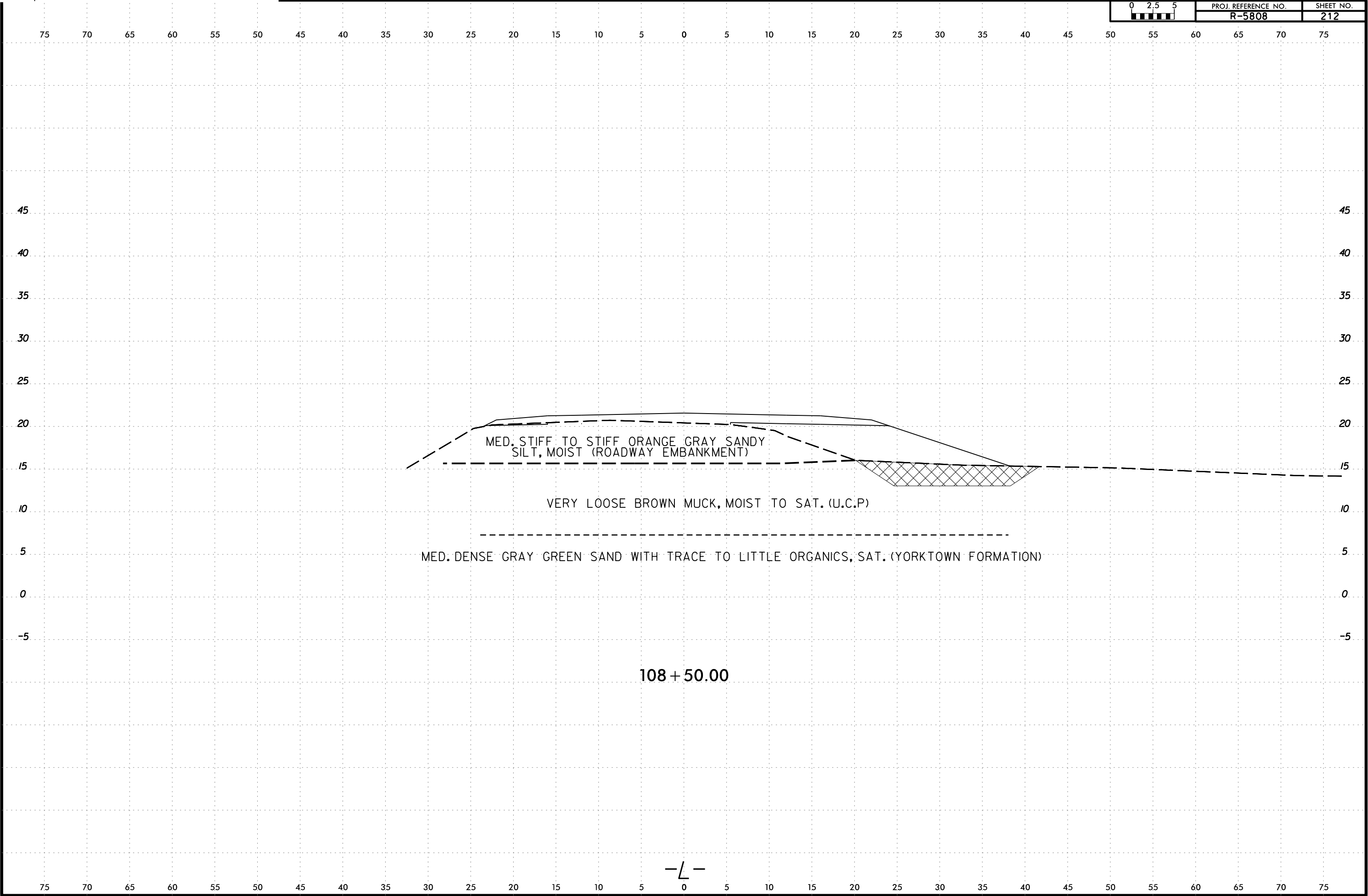
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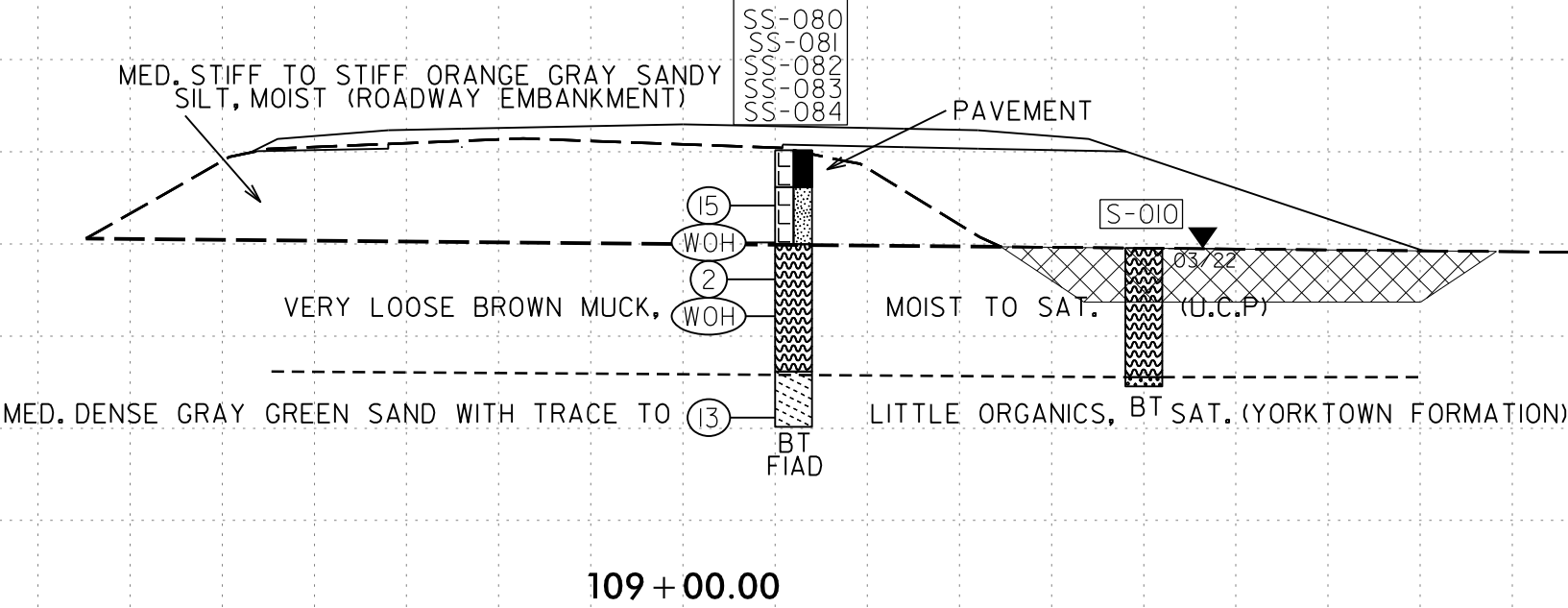


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stone AT CAT-LSTONE-18

SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-010	25 ft RT	109+00	0.0 - 7.0	A-4(0)	NP	NP	18.2	6.2	75.4	0.2	99.9	85	76	332	62.7
SS-080	6 ft RT	109+00	5.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	72.3
SS-081	6 ft RT	109+00	6.0 - 8.0	A-2-4(0)	NP	NP	17.5	59.2	13.0	10.4	90.8	92	27	-	11.6
SS-082	6 ft RT	109+00	8.0 - 10.0	A-2-4(0)	NP	NP	22.8	50.9	18.4	7.8	87.1	86	29	-	20.2
SS-083	6 ft RT	109+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21.8
SS-084	6 ft RT	109+00	13.5 - 15.0	A-2-4(0)	25	6	24.5	45.2	20.0	10.3	97.0	92	33	-	3.7

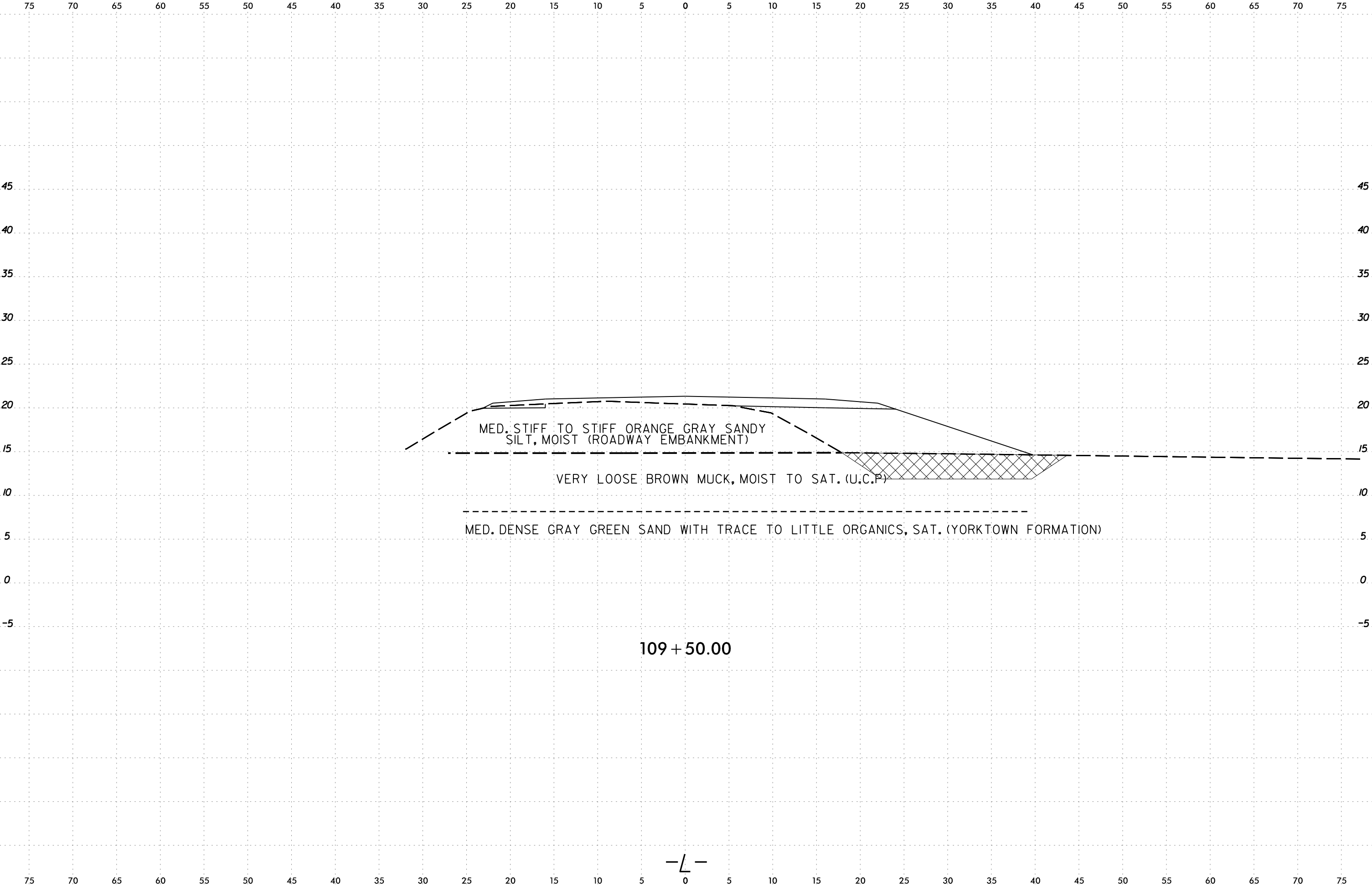


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AT CAT-1 STONE-18

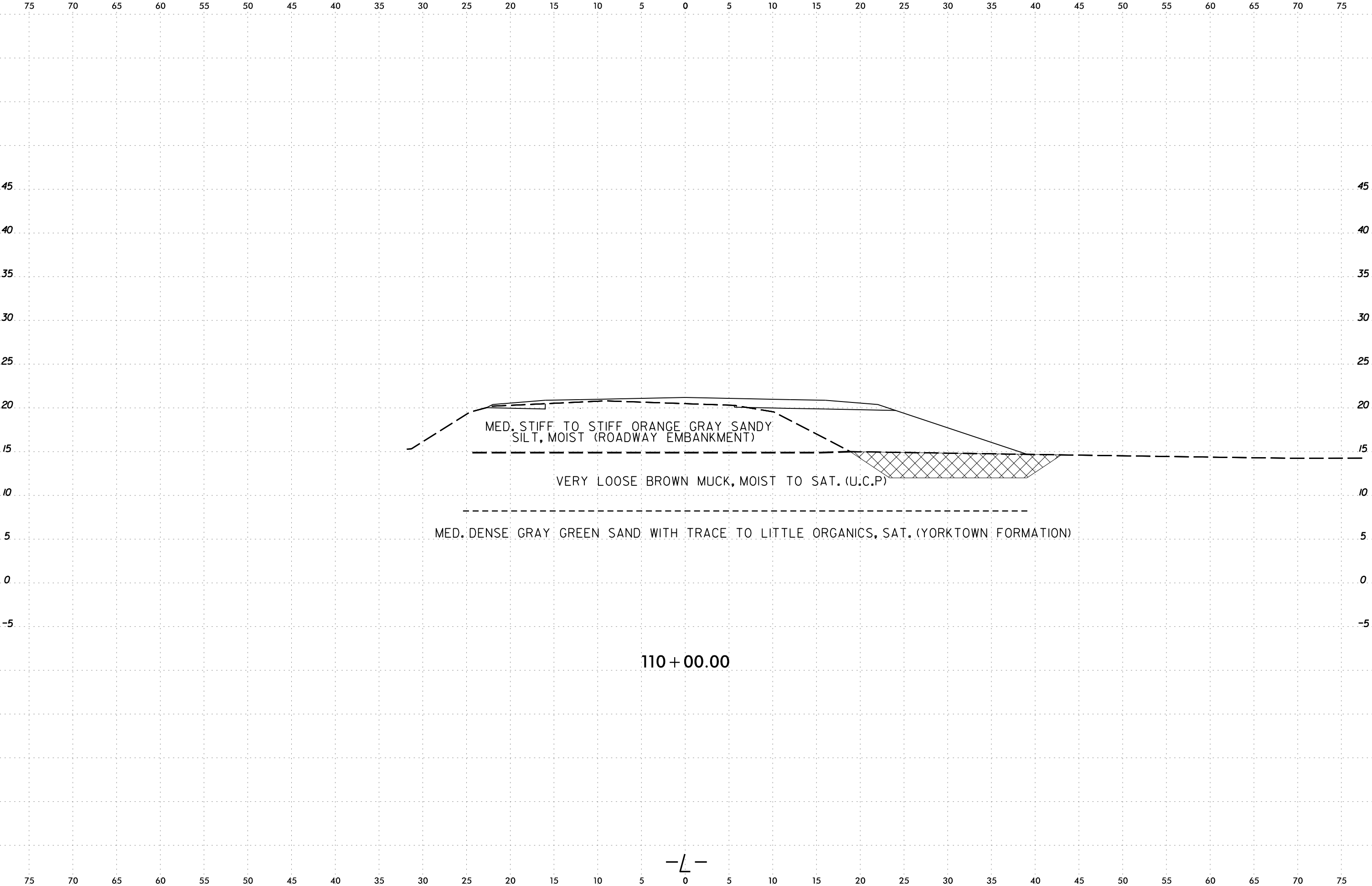
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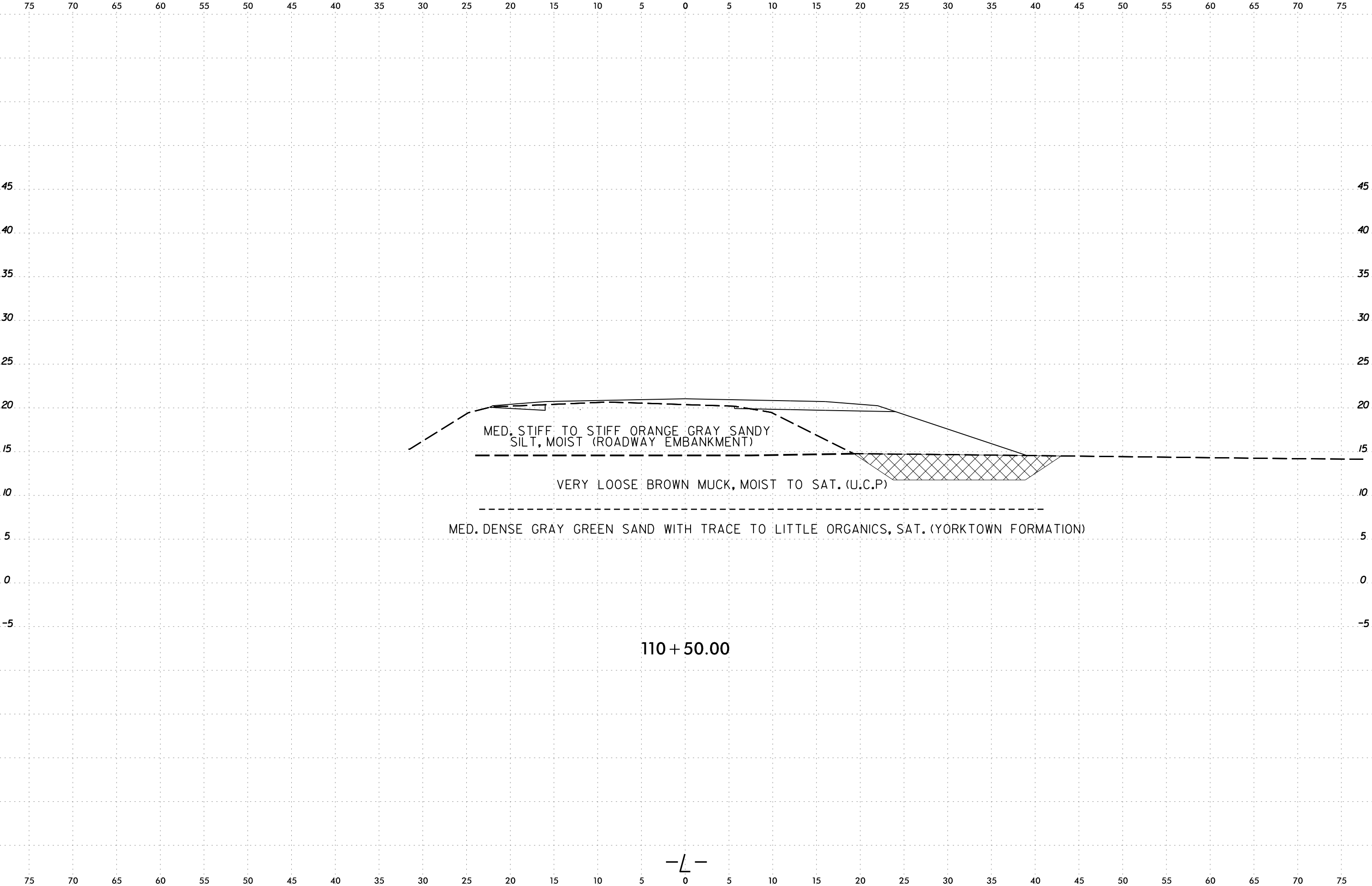


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AT CAT-1 STONE-18

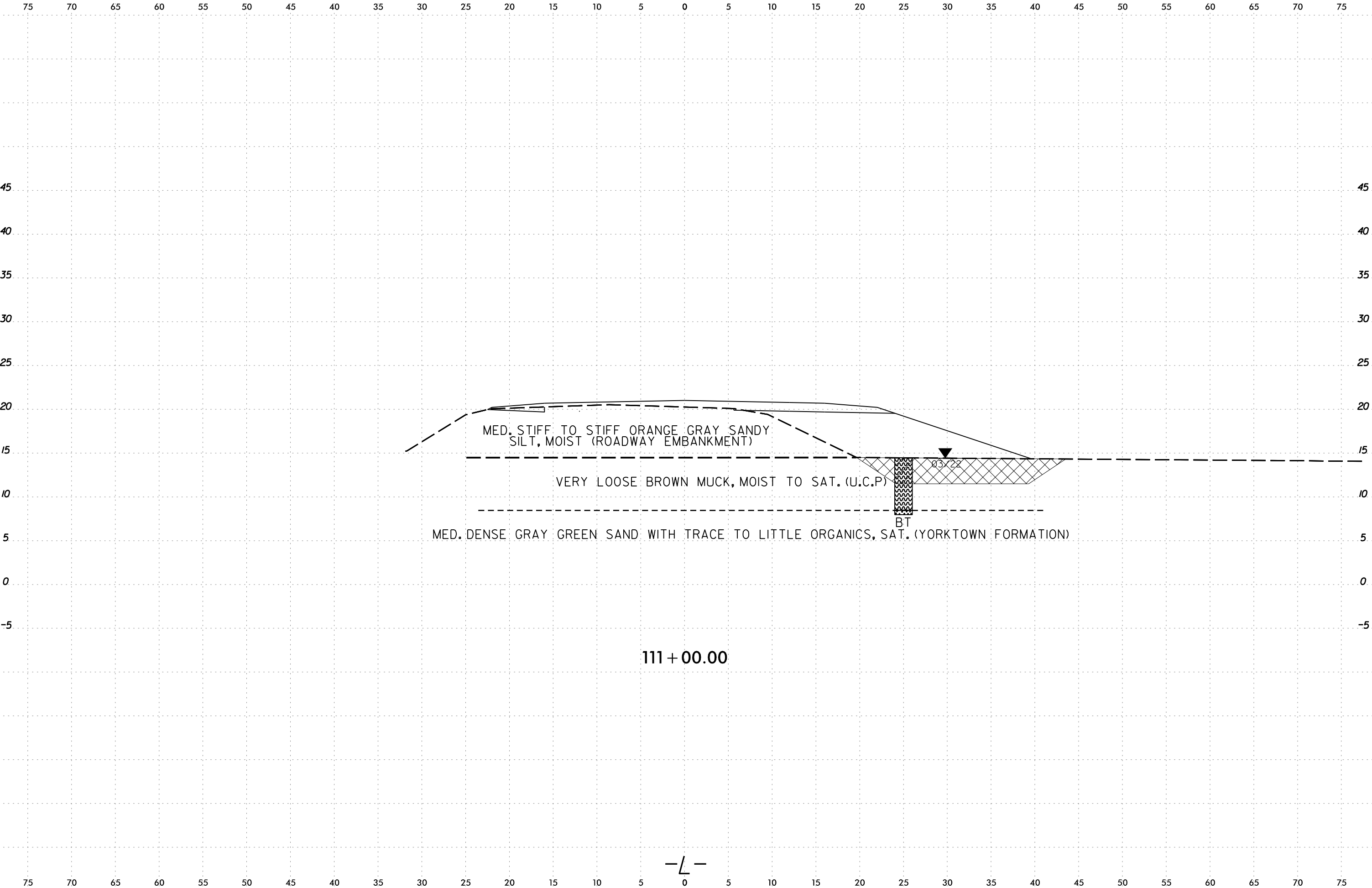
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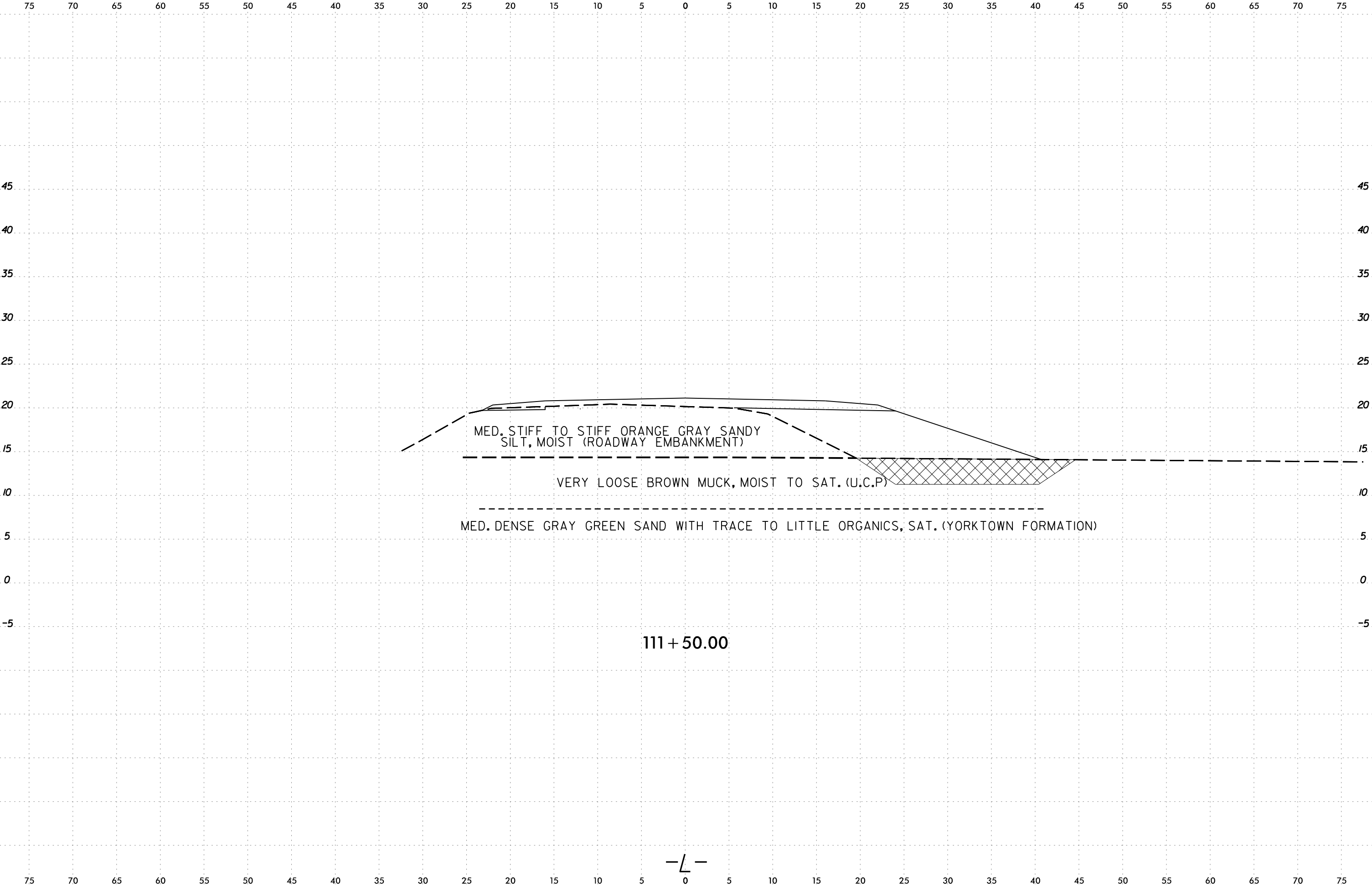


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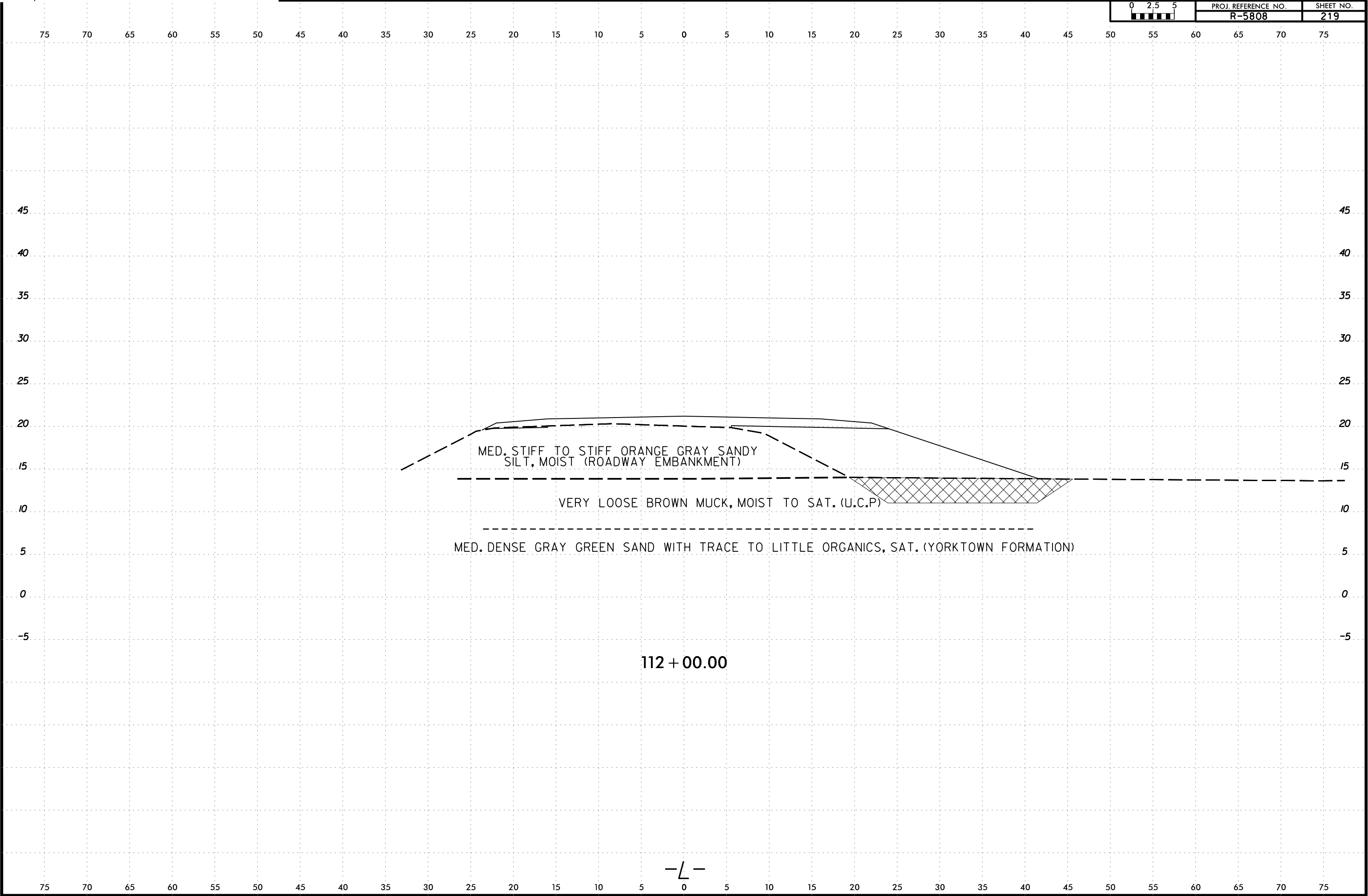
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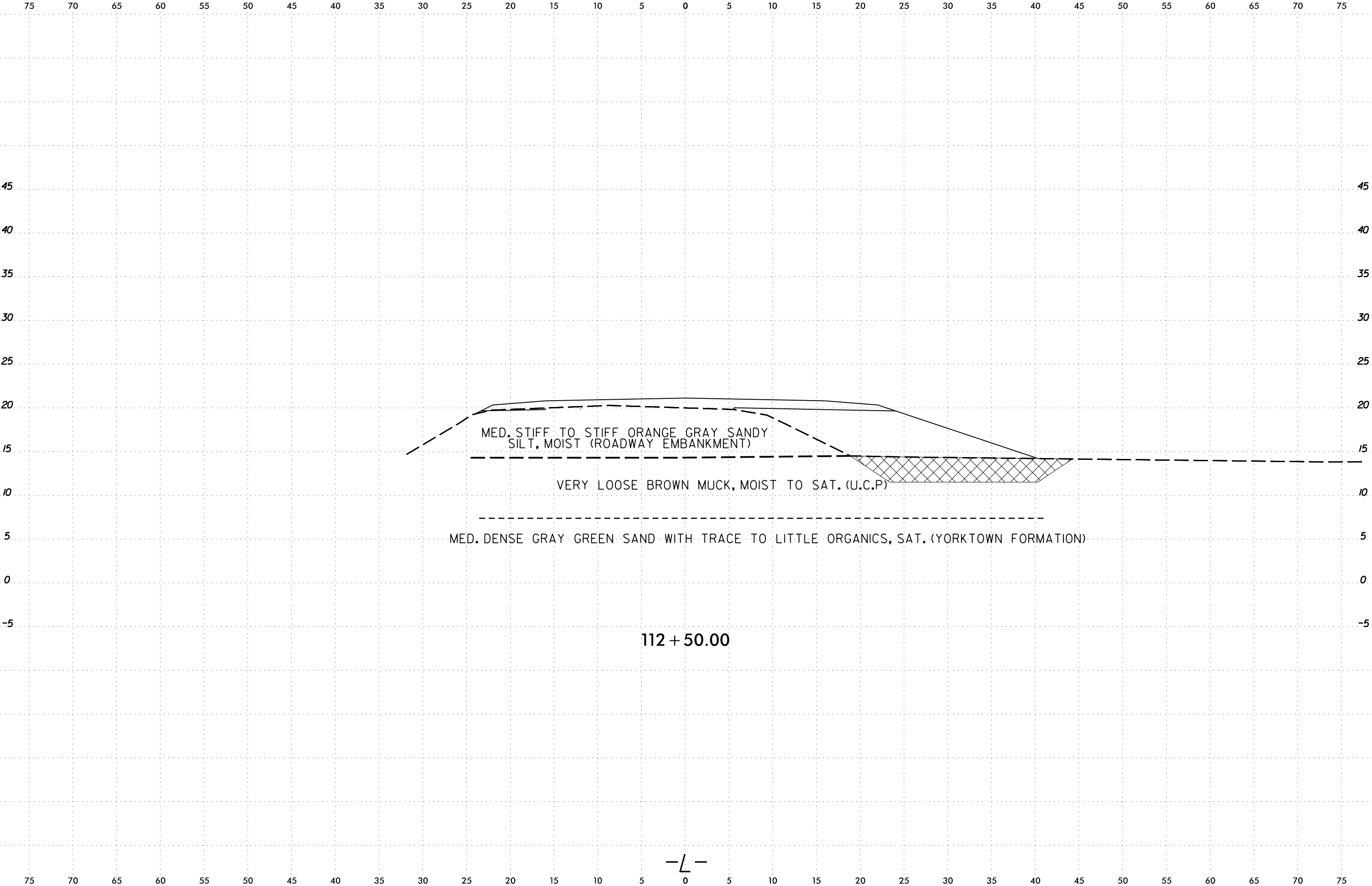


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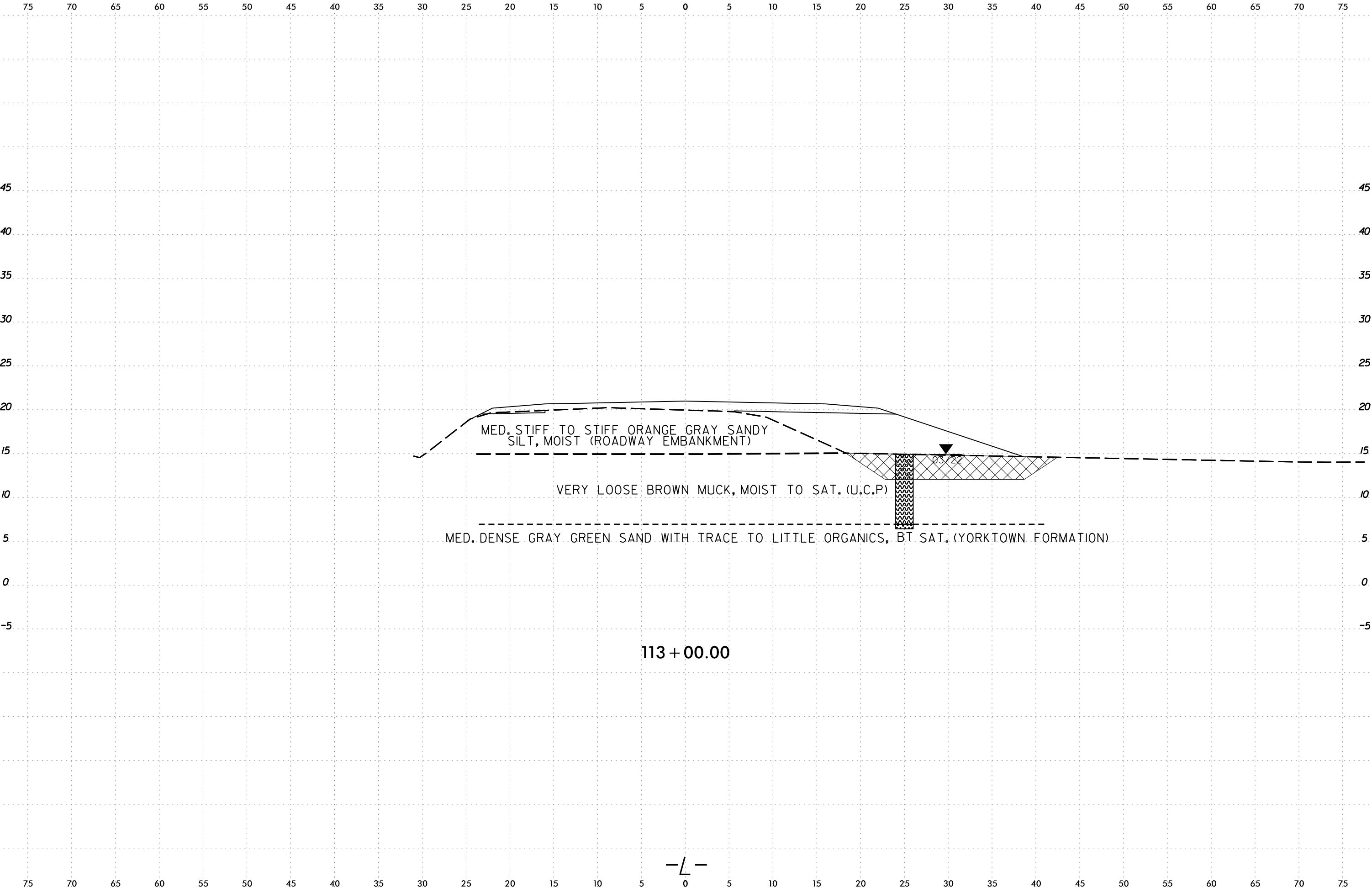


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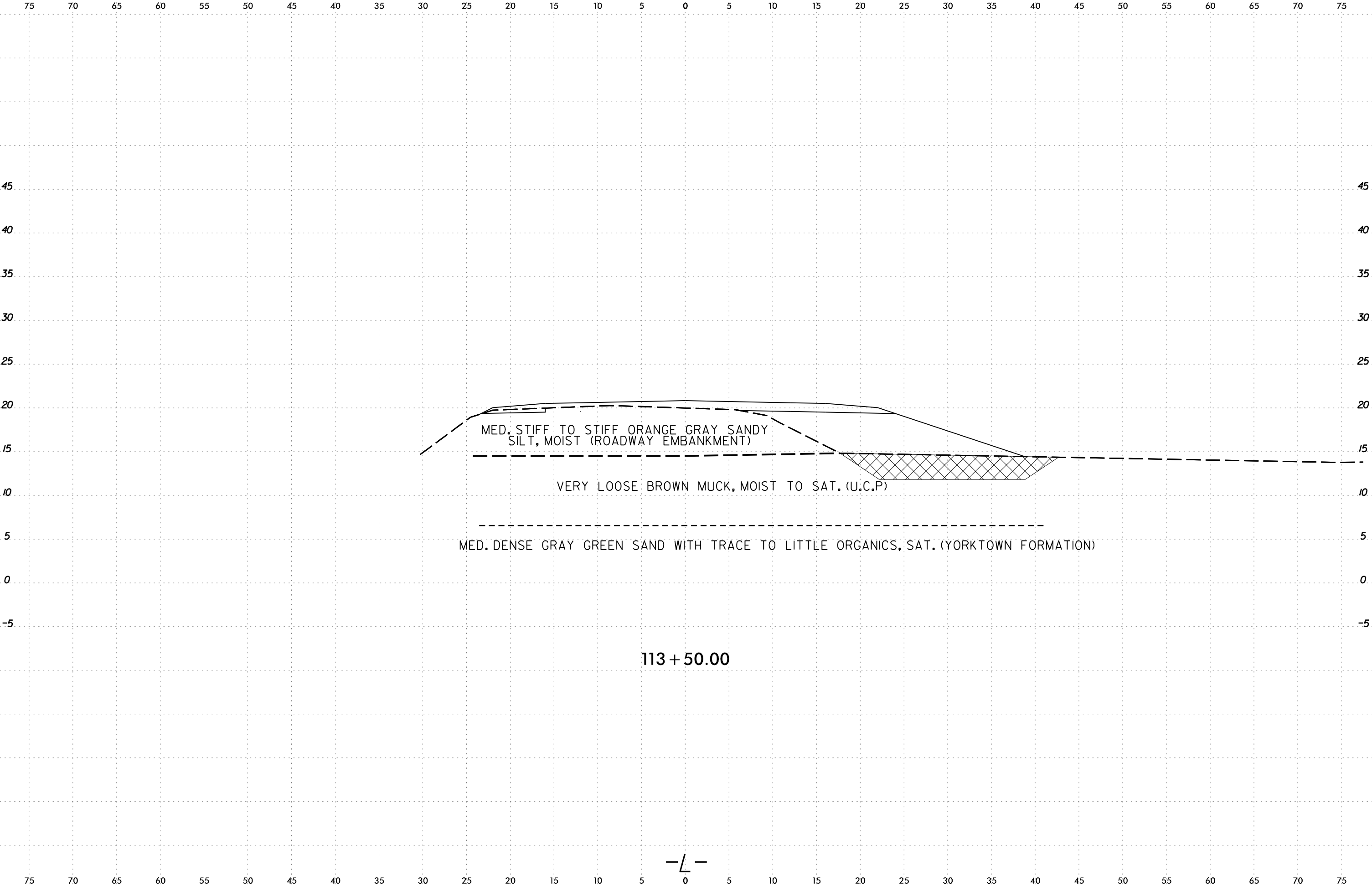
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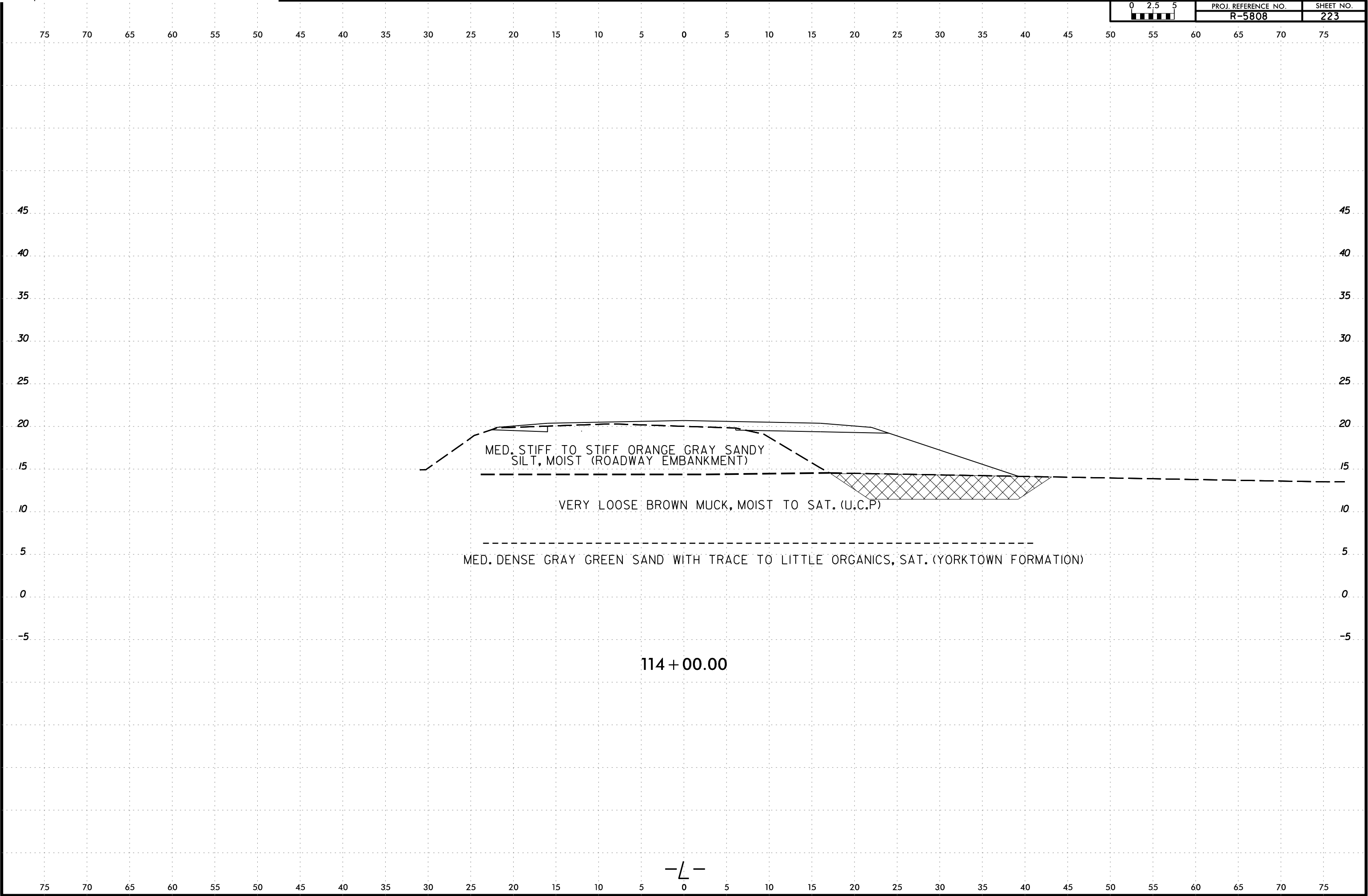
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AT CAT-STONE-18

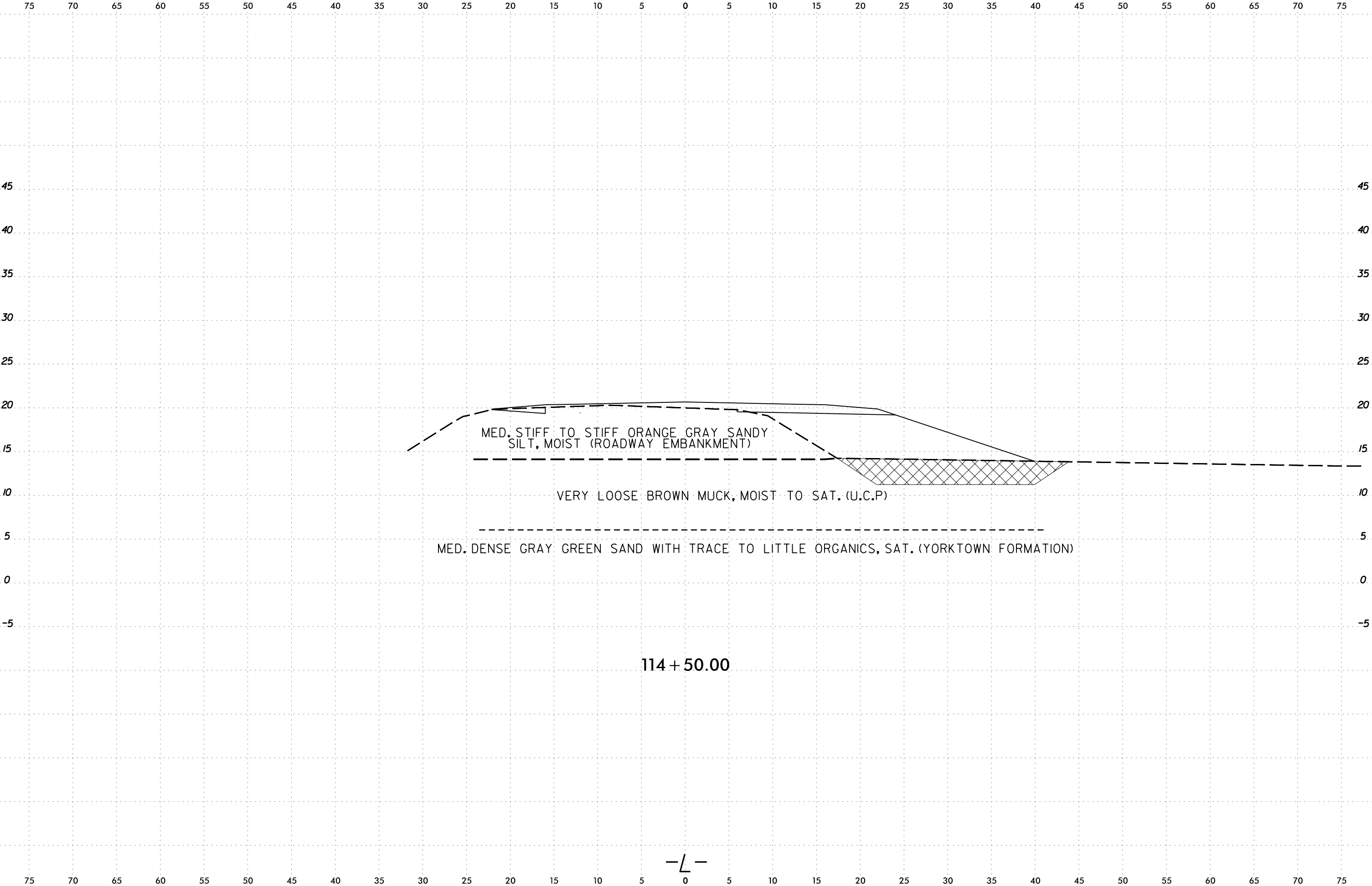
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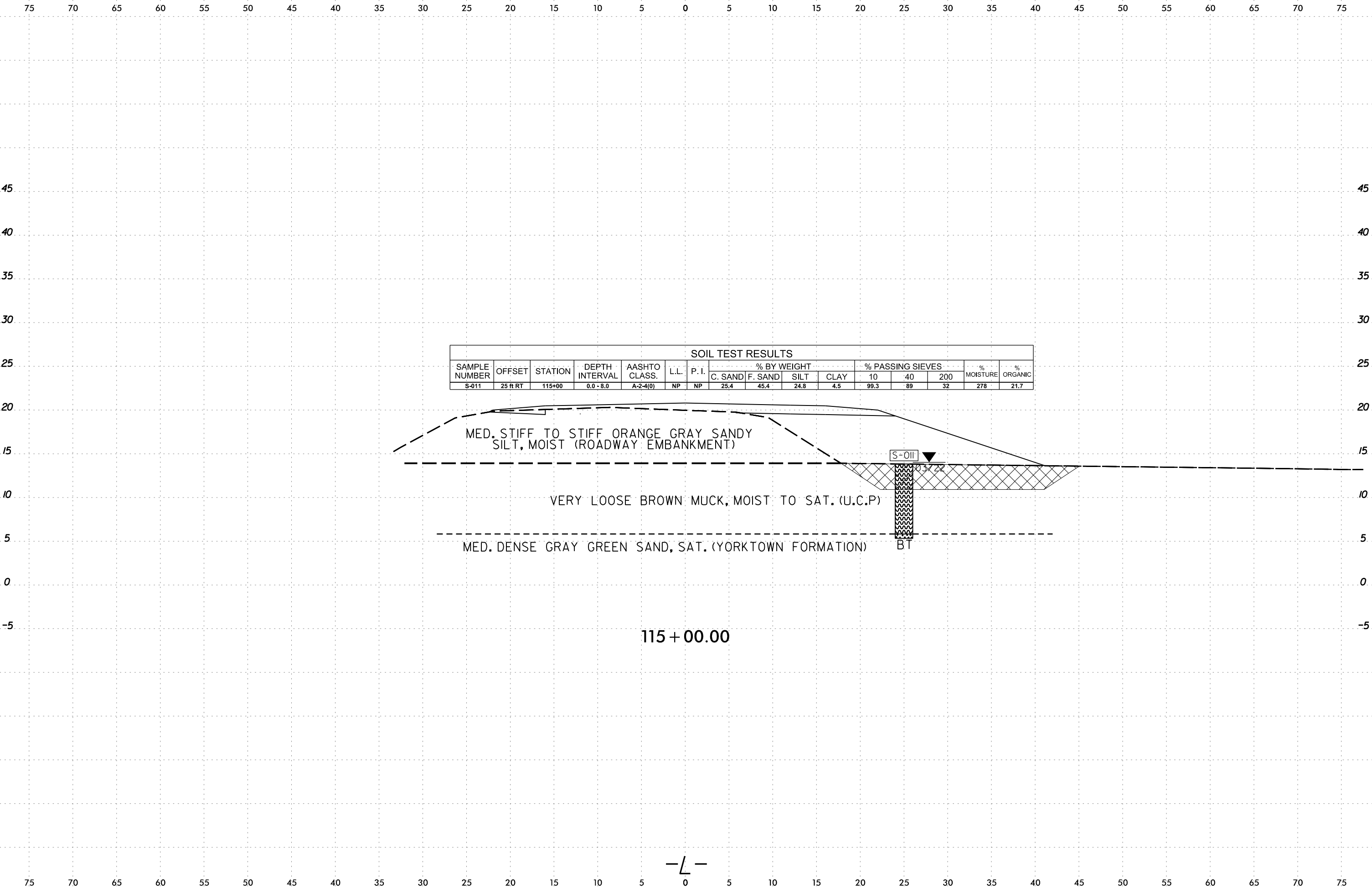
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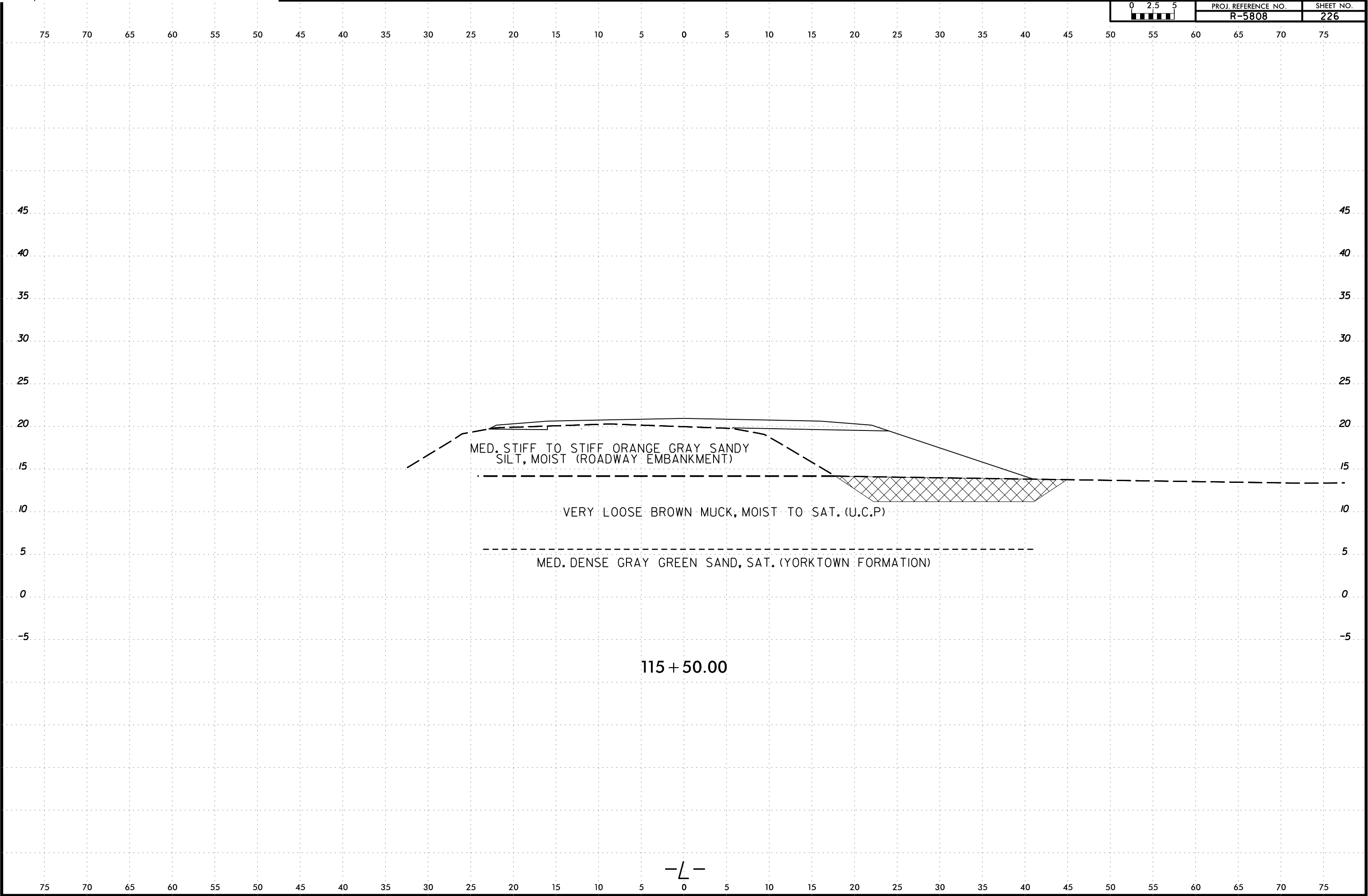


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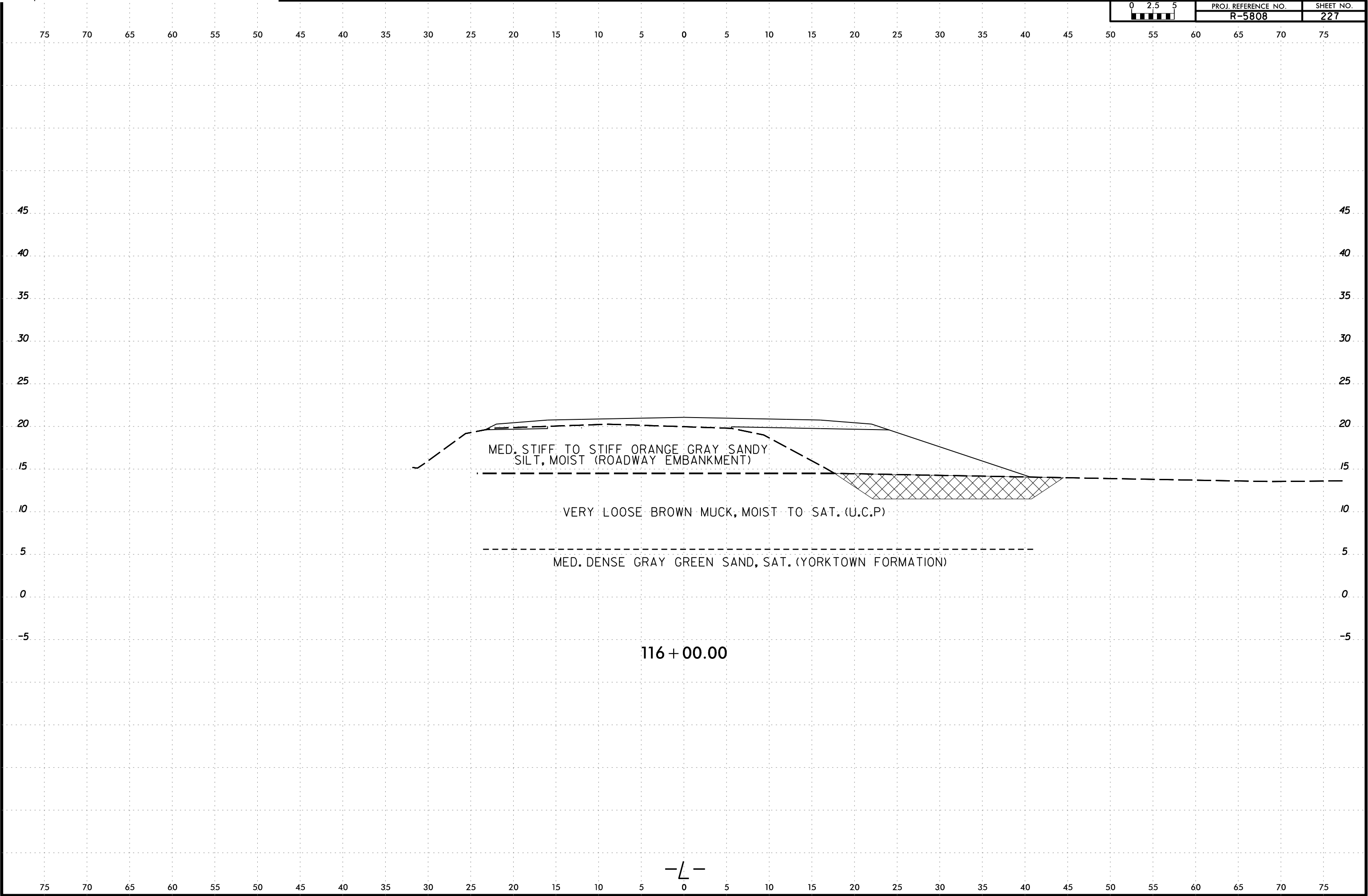
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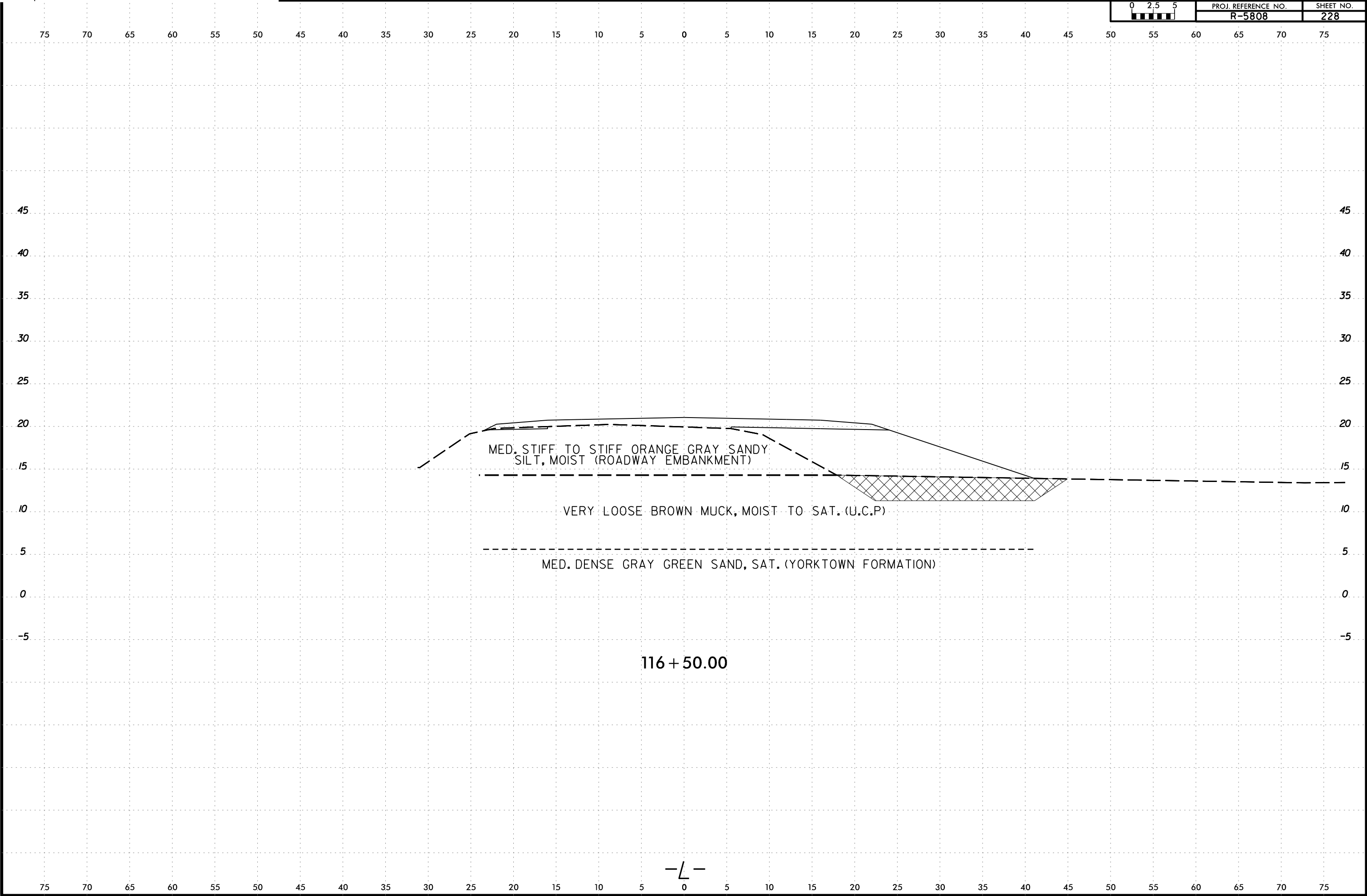
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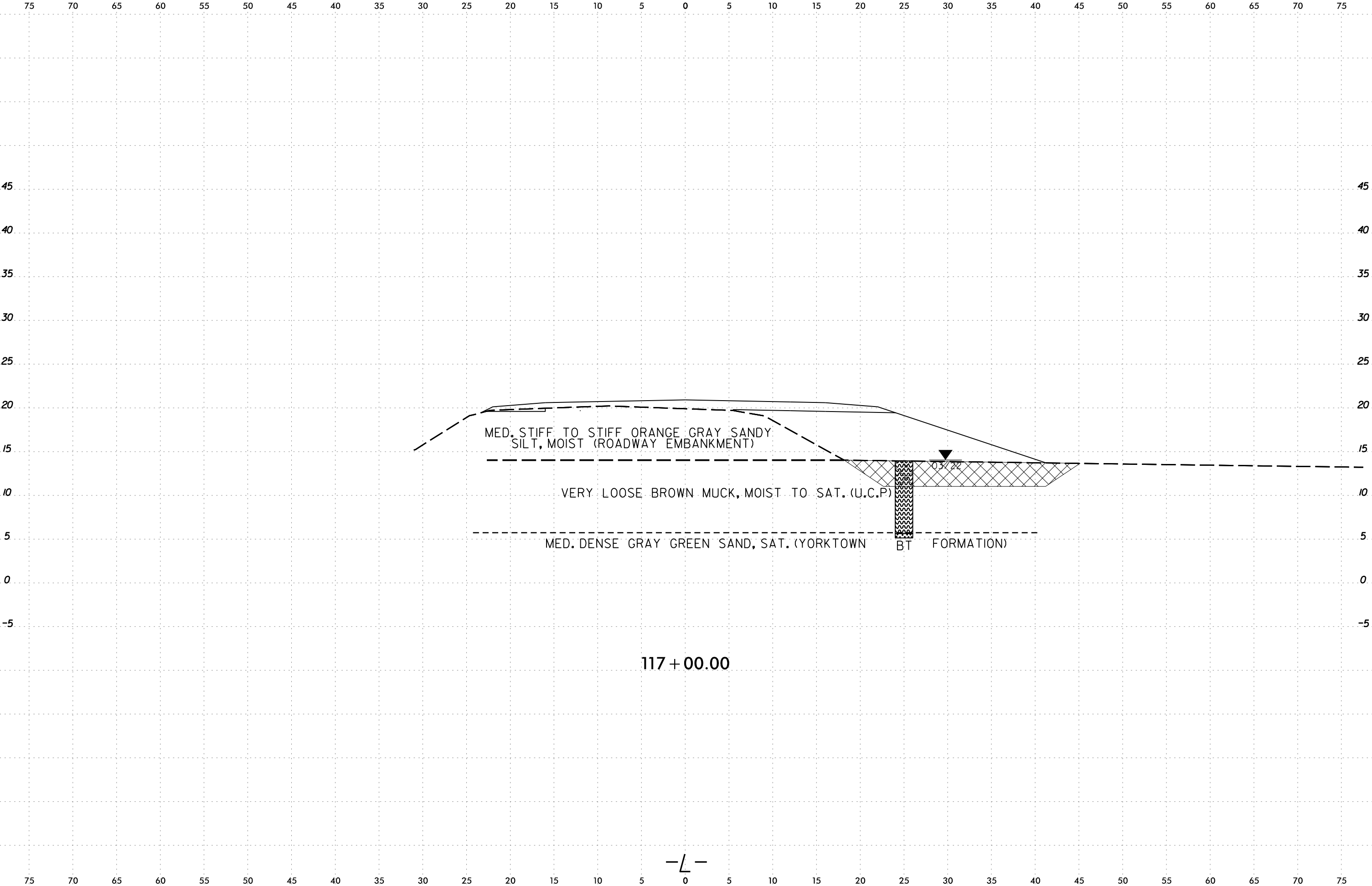
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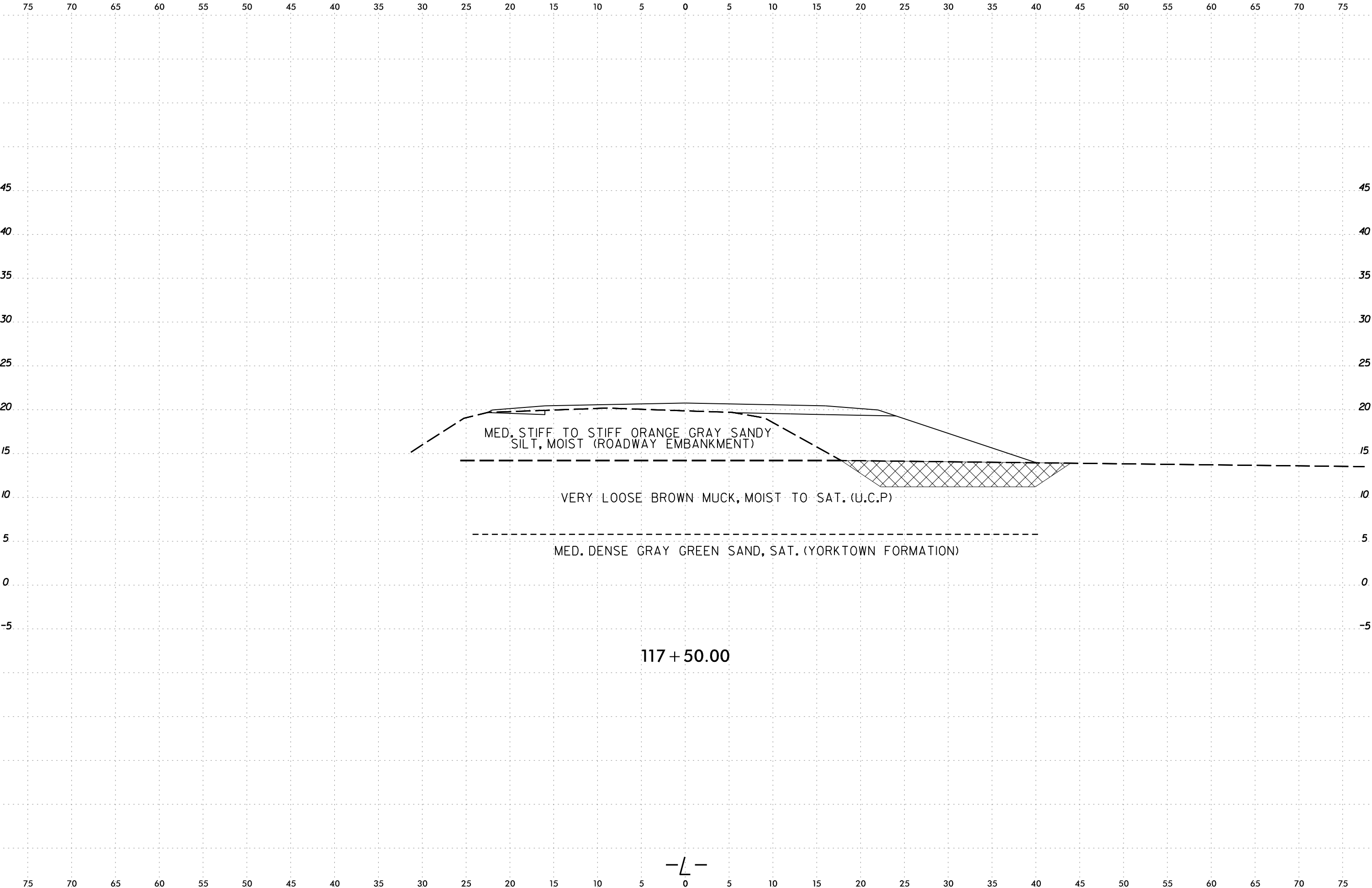
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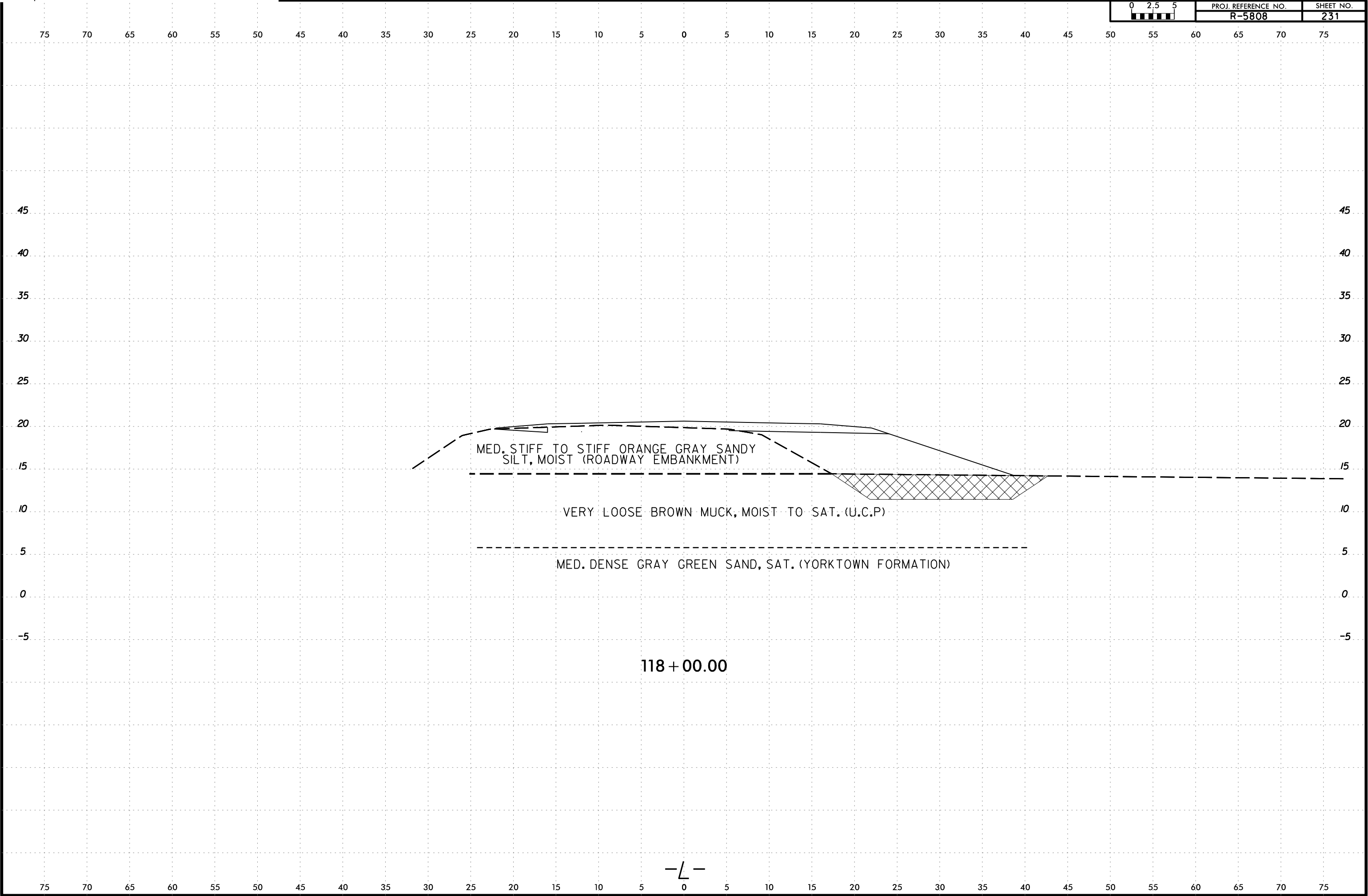
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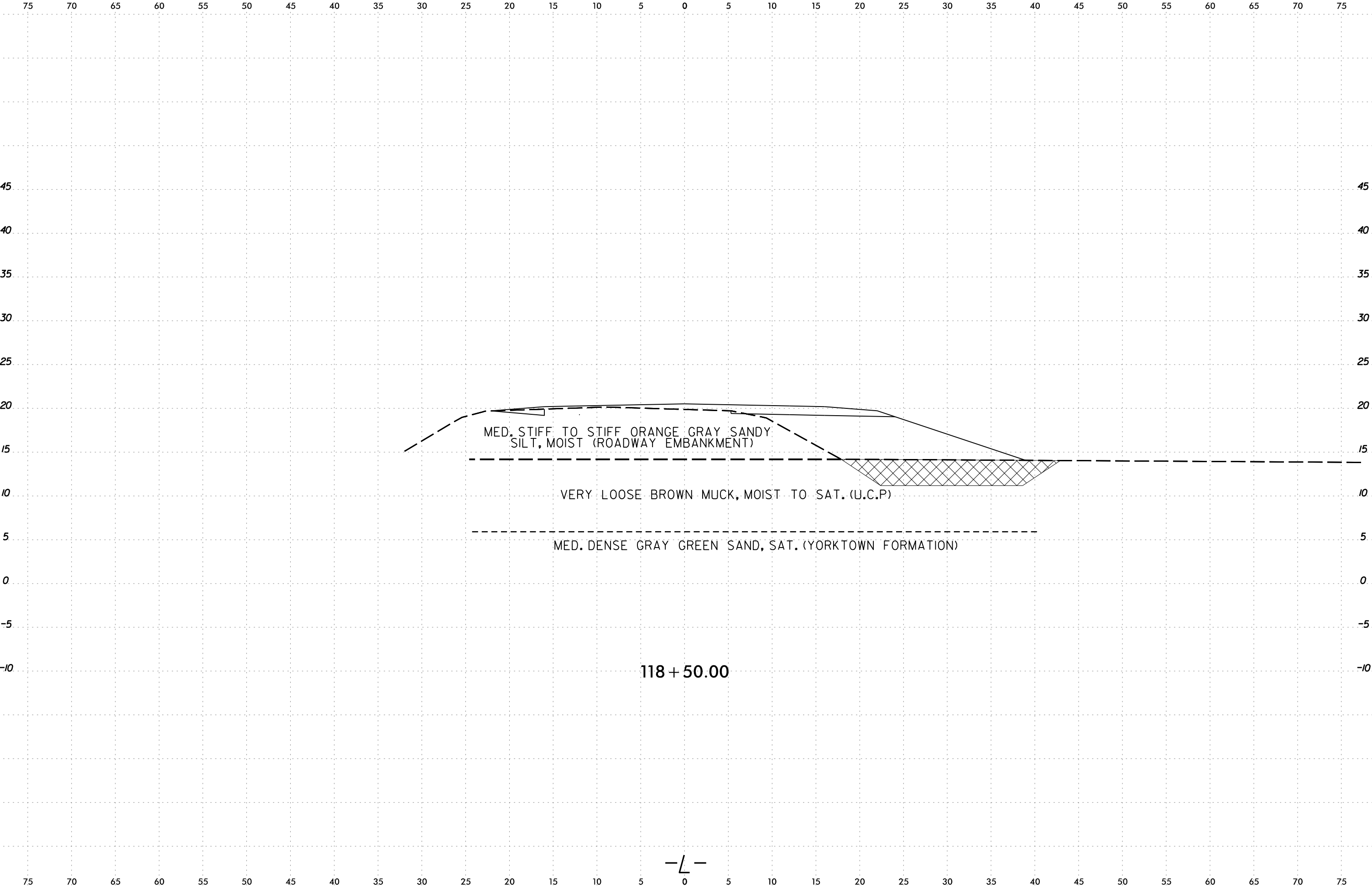
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AT CAT-1 STONE-18

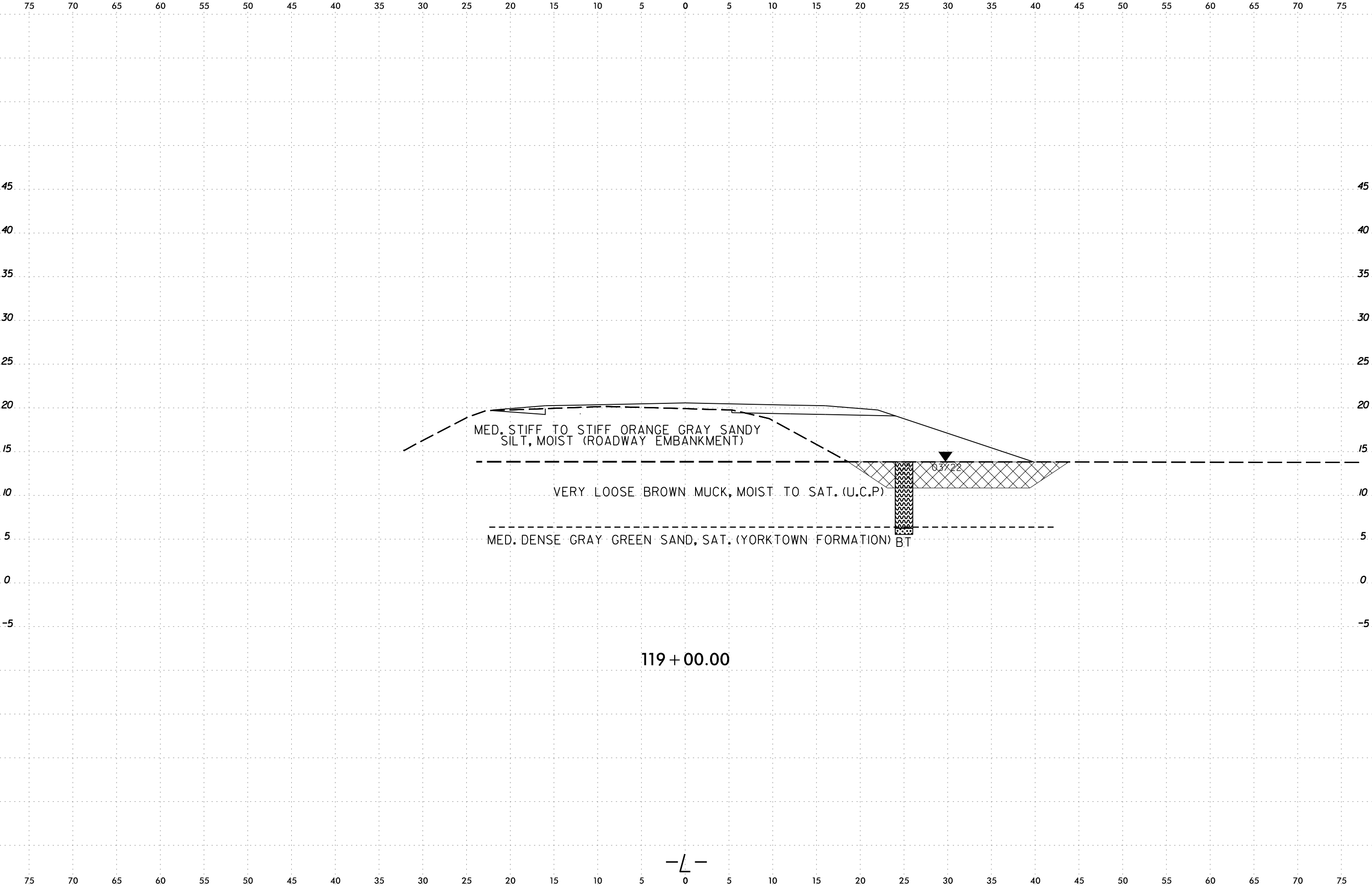
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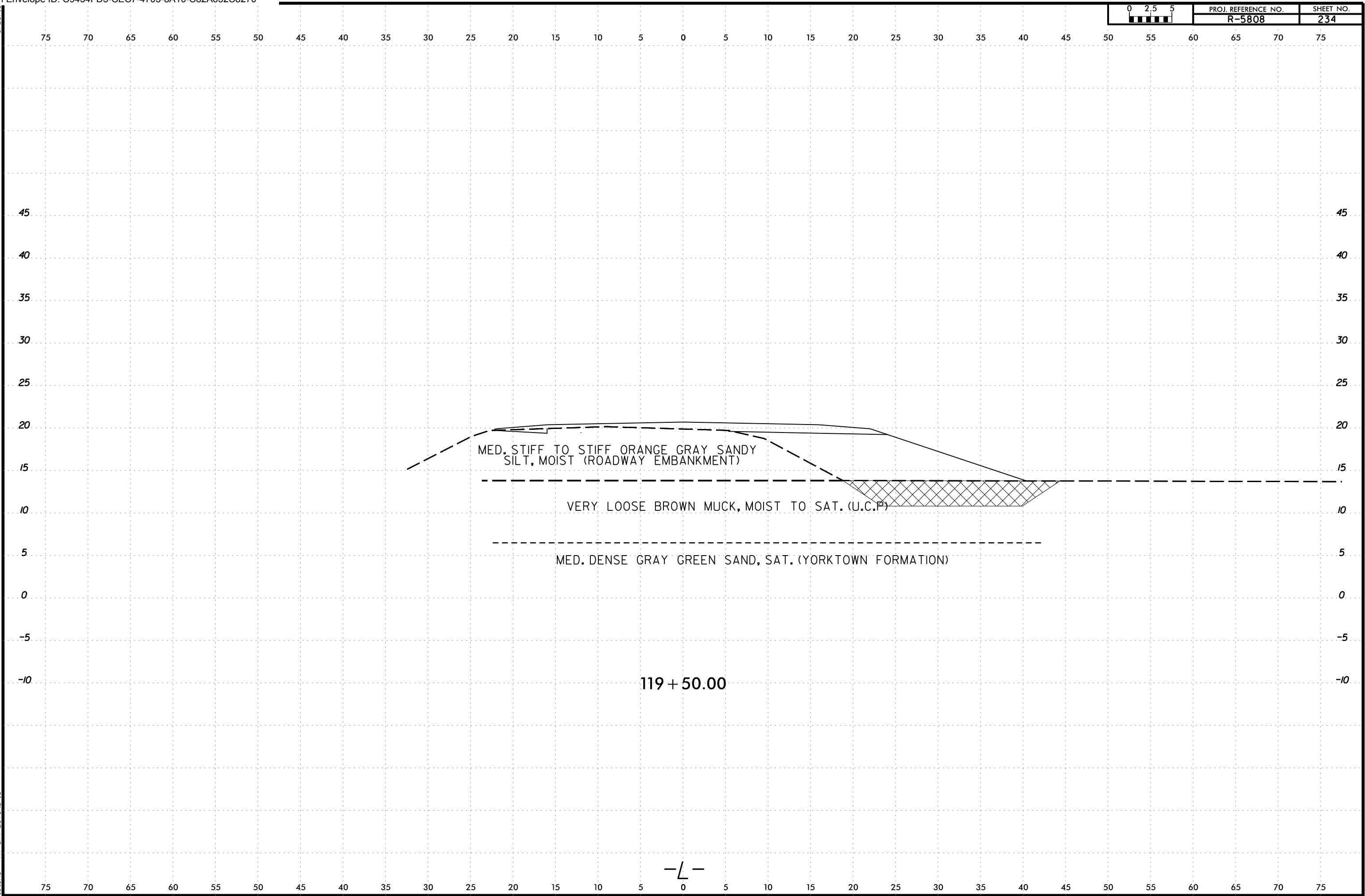
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AT CAT-LSTONE-18

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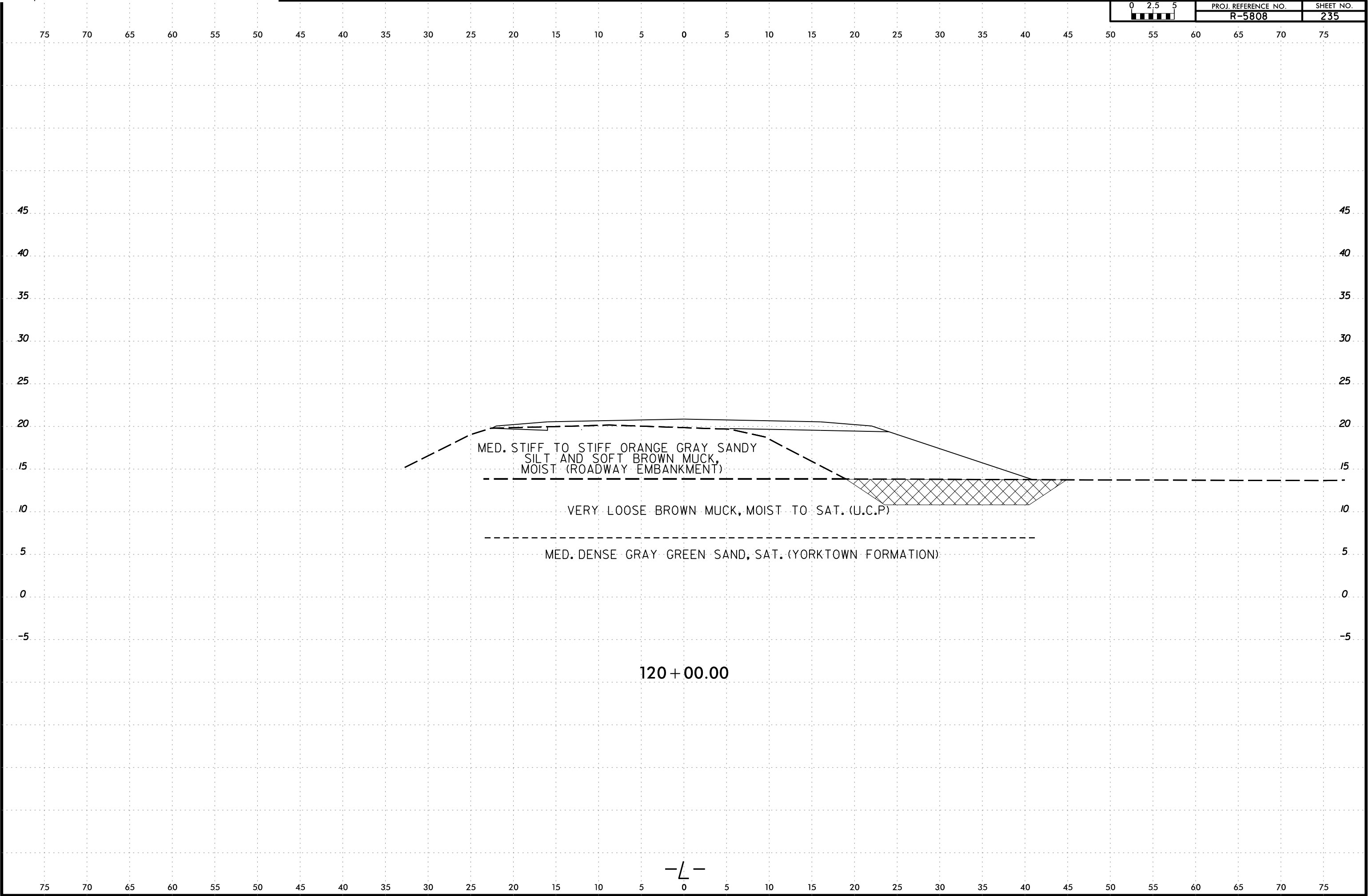
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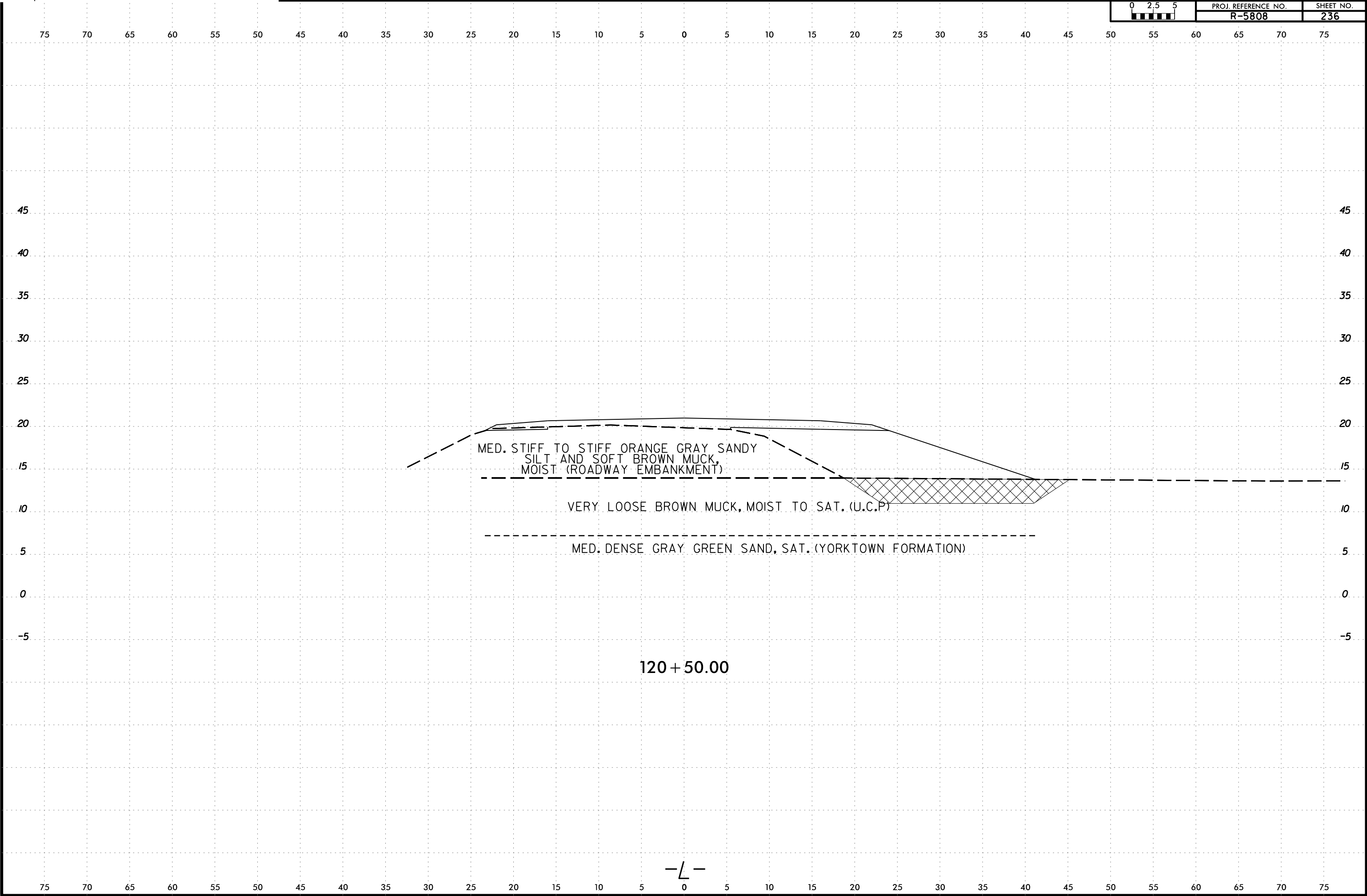


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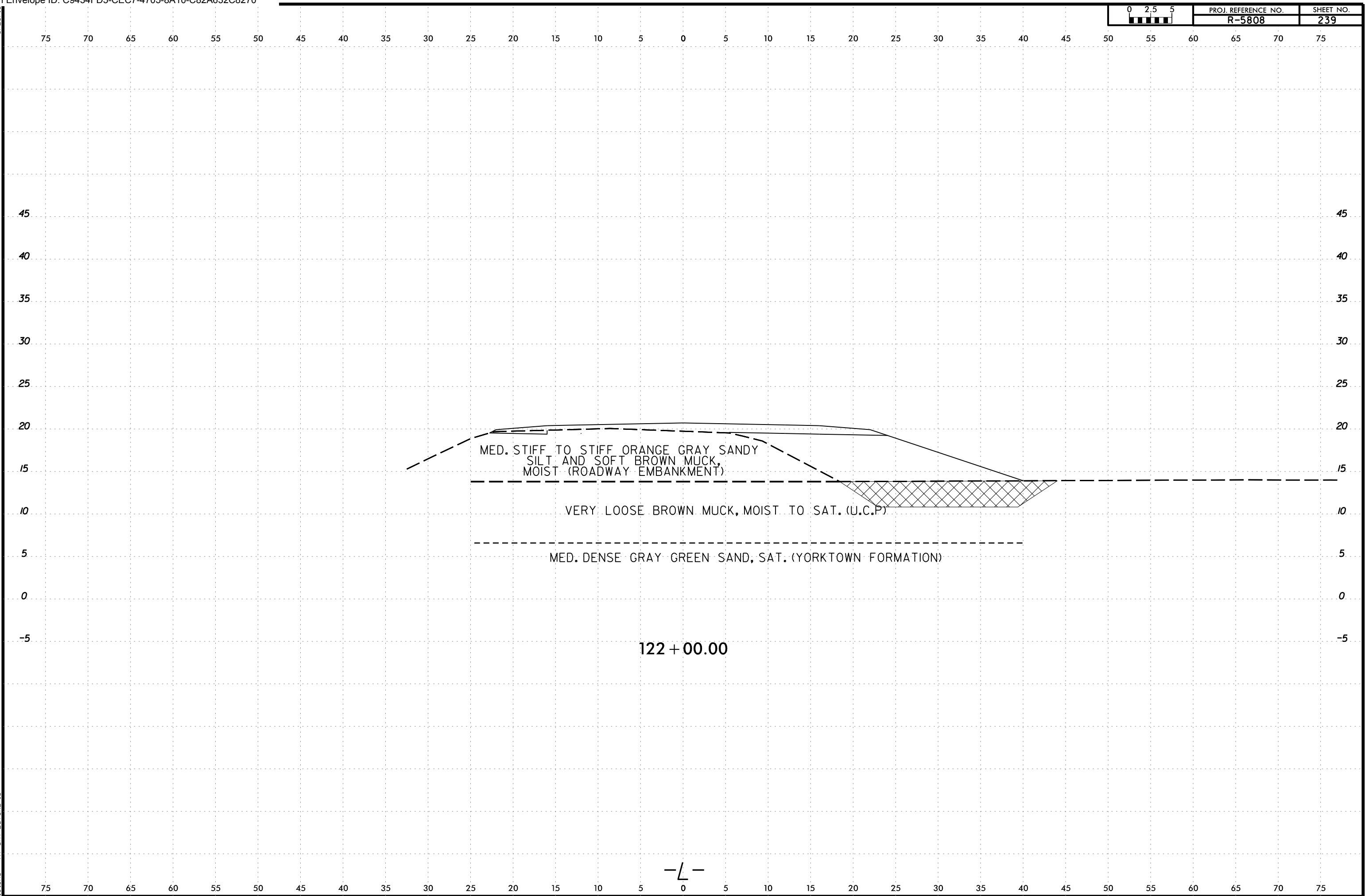


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The diagram illustrates a geological cross-section with various soil layers and test locations. The top layer is labeled "MED. STIFF TO STIFF ORANGE GRAY SANDY SILT AND VERY SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)". Below this is a layer of "VERY LOOSE BROWN MUCK, MOIST TO SAT.". The bottom layer is labeled "MED. DENSE GRAY GREEN BT FIAD SAND, SAT. (YORKTOWN FORMATION)". A dashed line indicates the water table level. Two test locations are shown: one at station 121+00.00 and another at station 121+02.72. The test at 121+00.00 shows a borehole with a depth of 9 feet, followed by two sections of 2 feet each, and a final section of 15 feet. The test at 121+02.72 shows a borehole with a depth of 13 feet, followed by a section of 2 feet, and a final section of 15 feet. The labels "SS-085", "SS-086", and "SS-087" are associated with the first test location, while "S-013" and "S-014" are associated with the second test location. The label "PAVEMENT" points to the top surface of the embankment.

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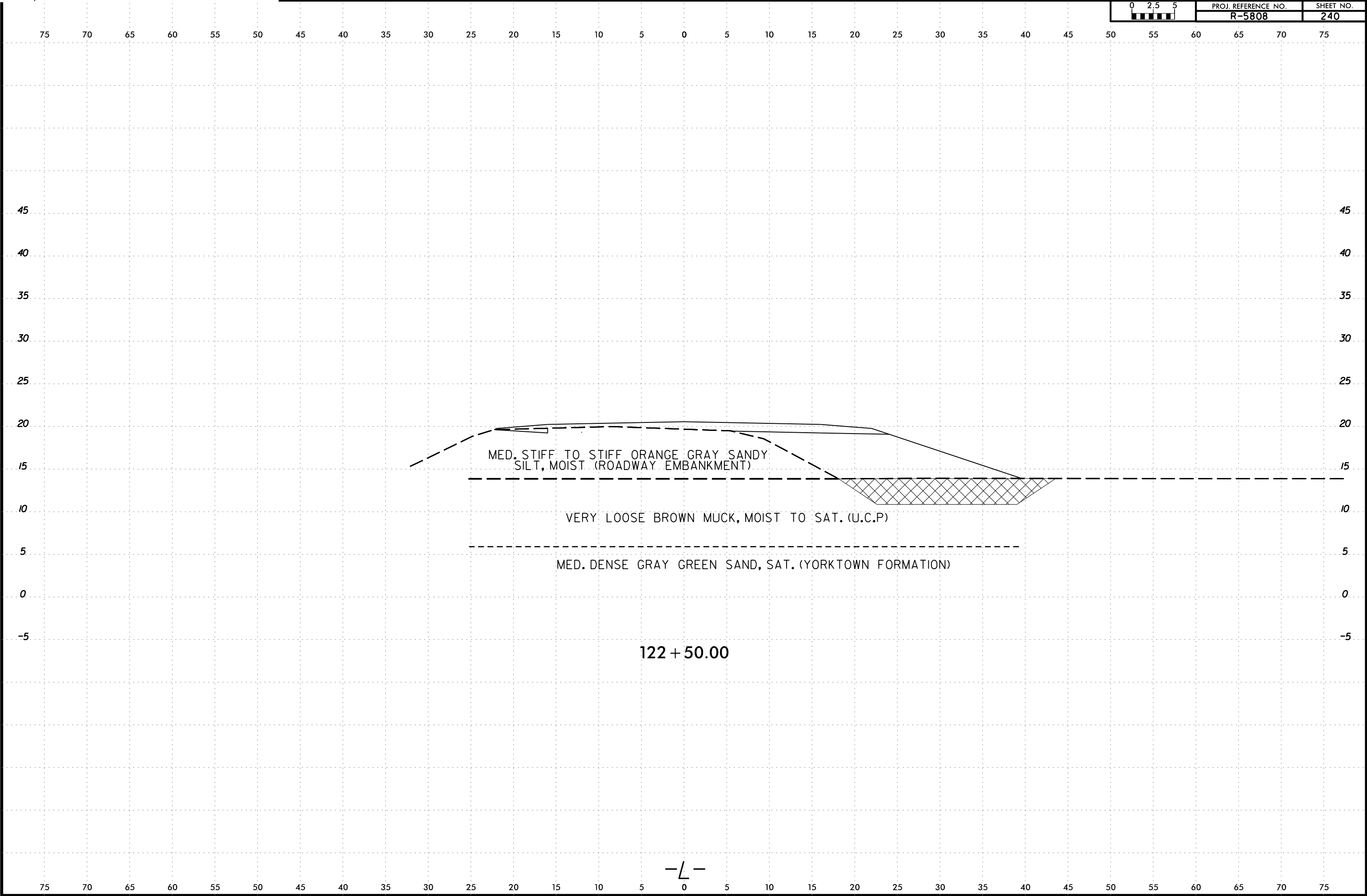




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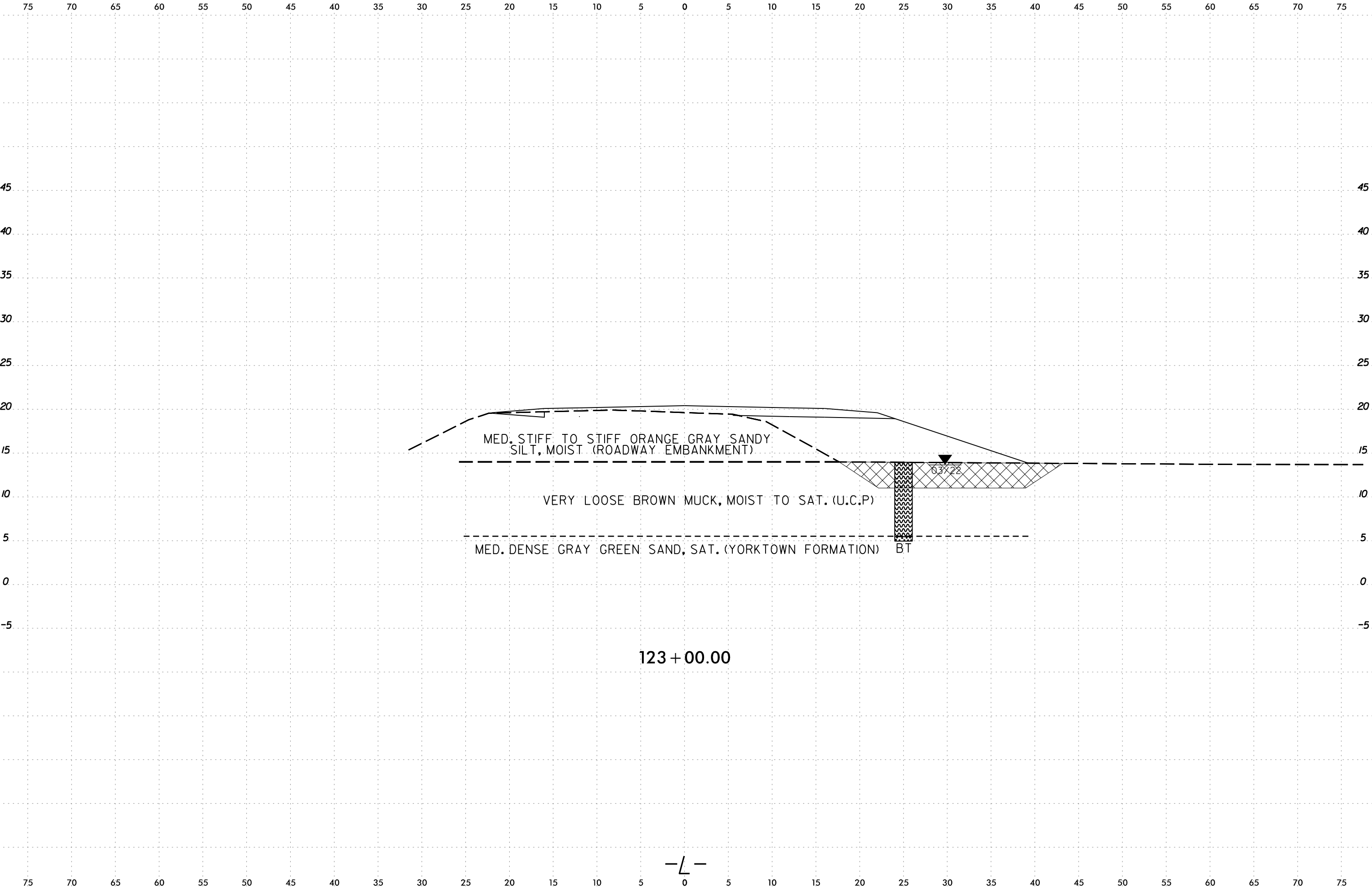
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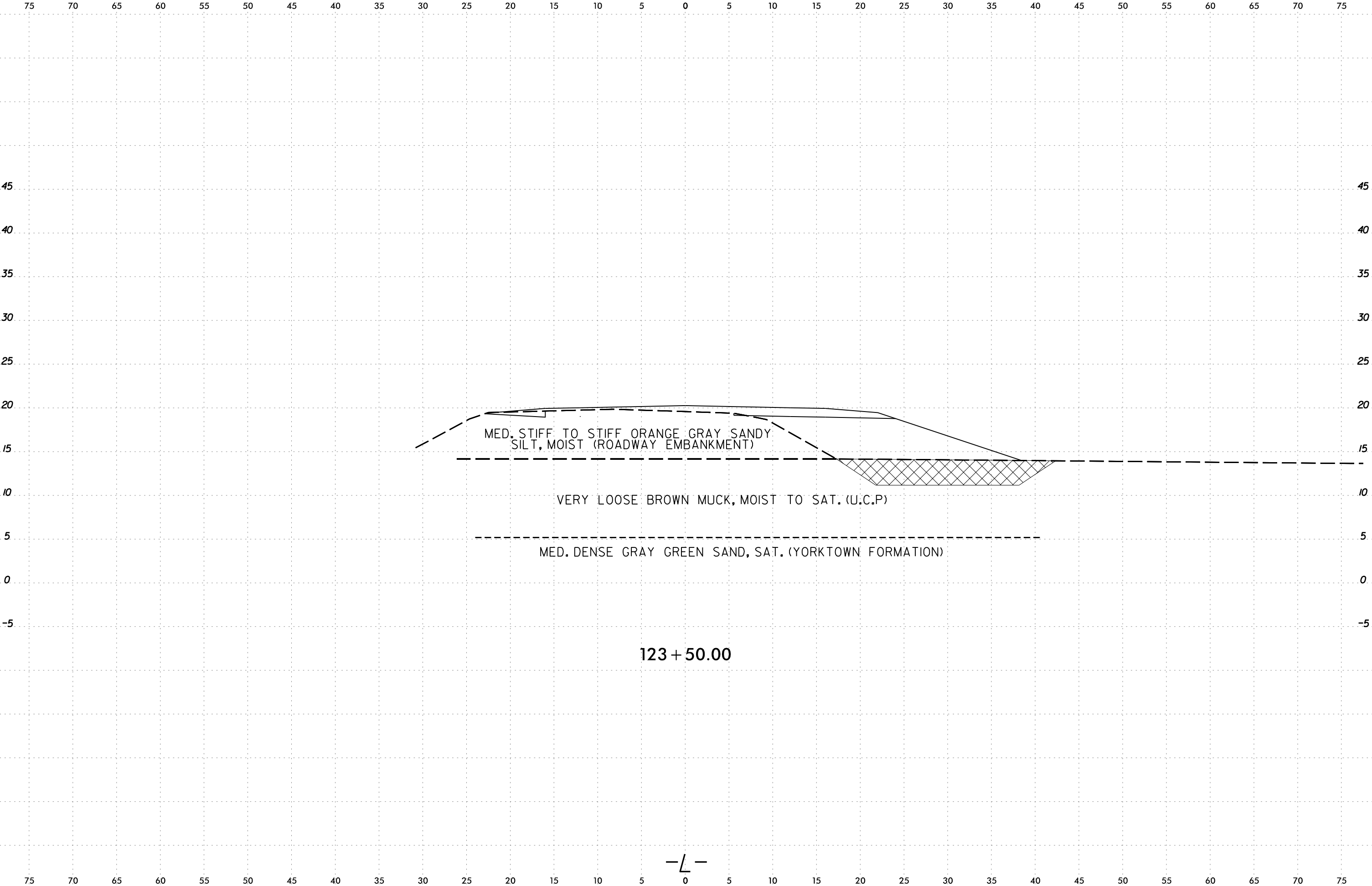


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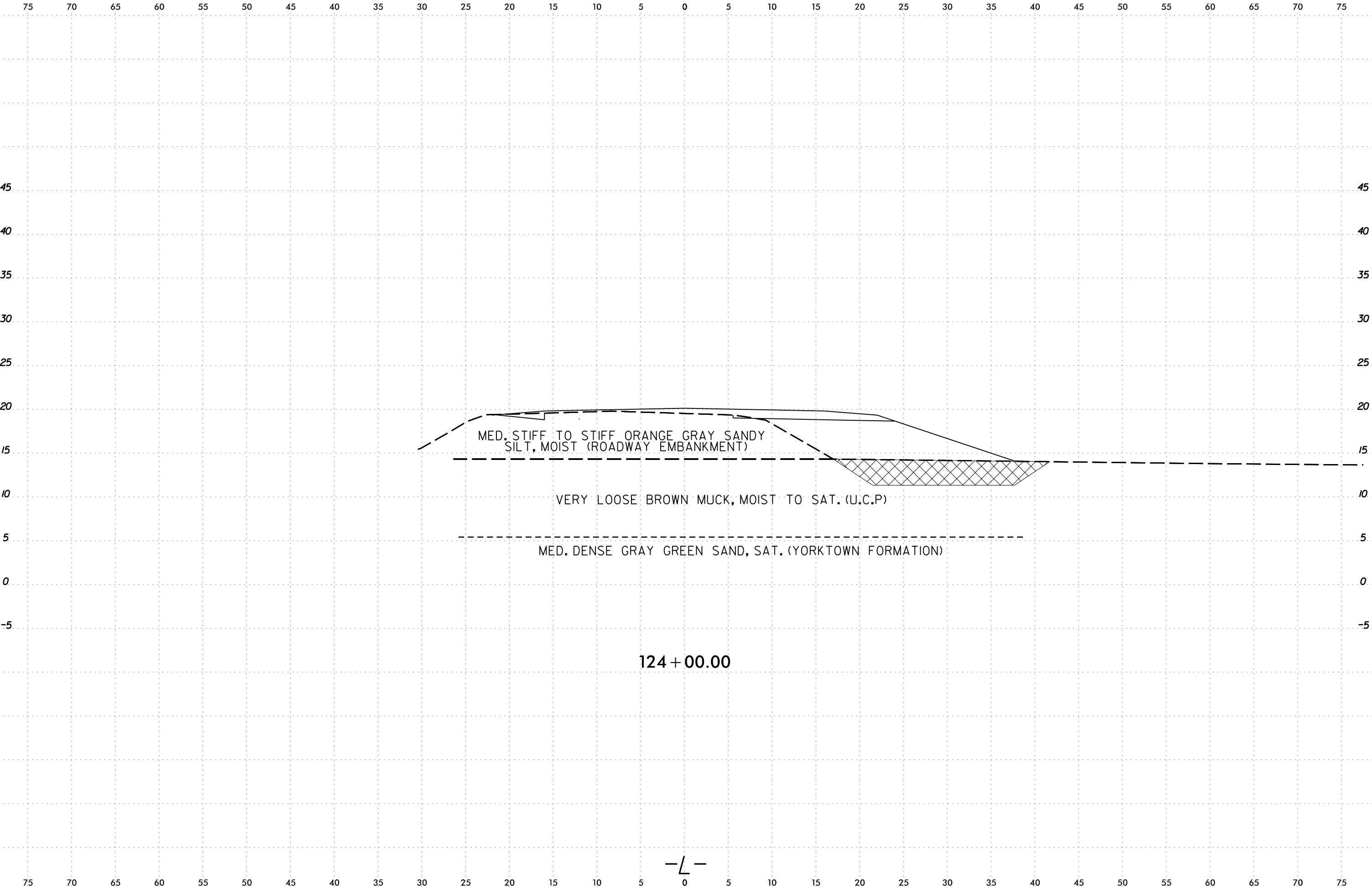
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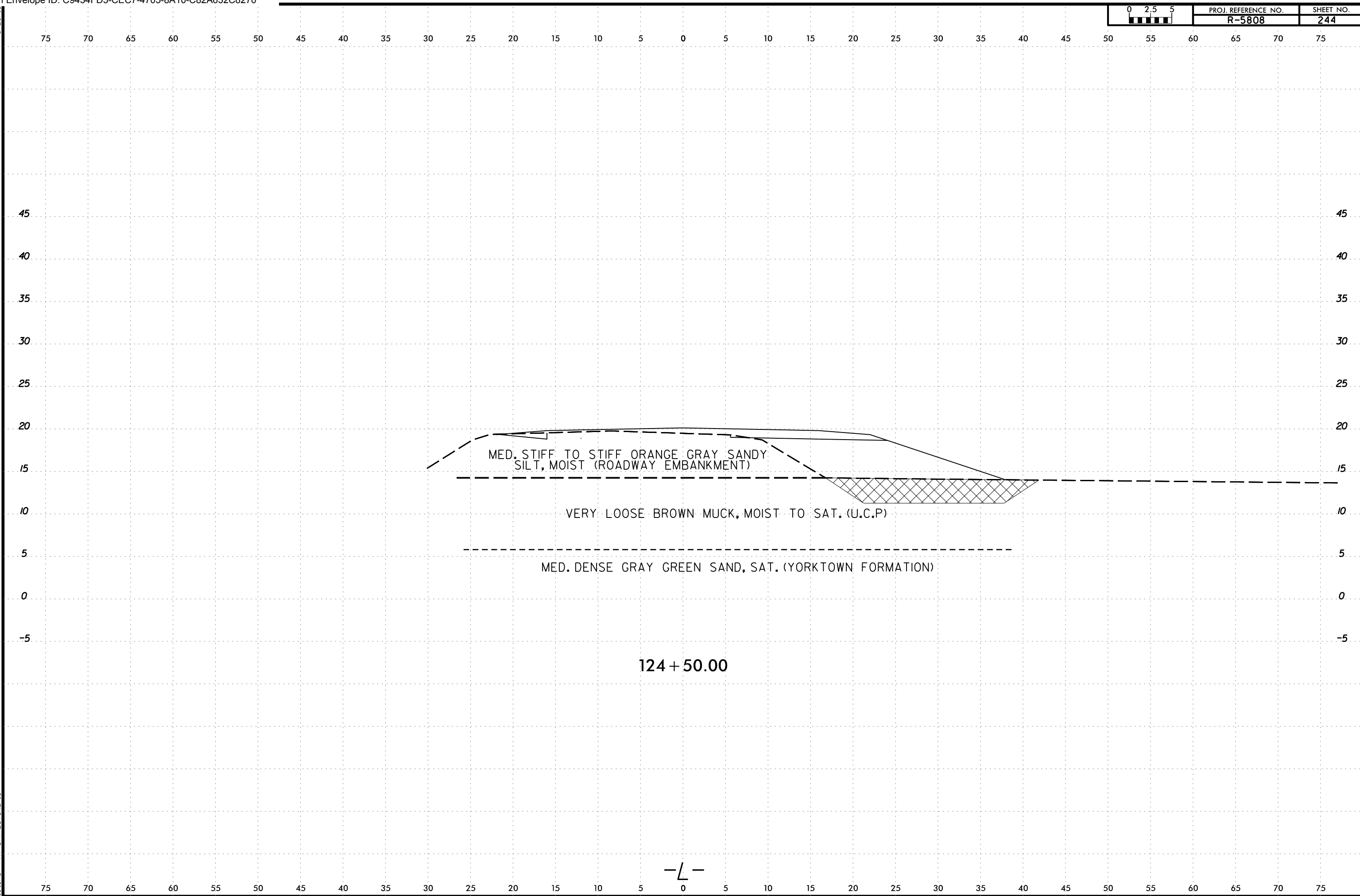


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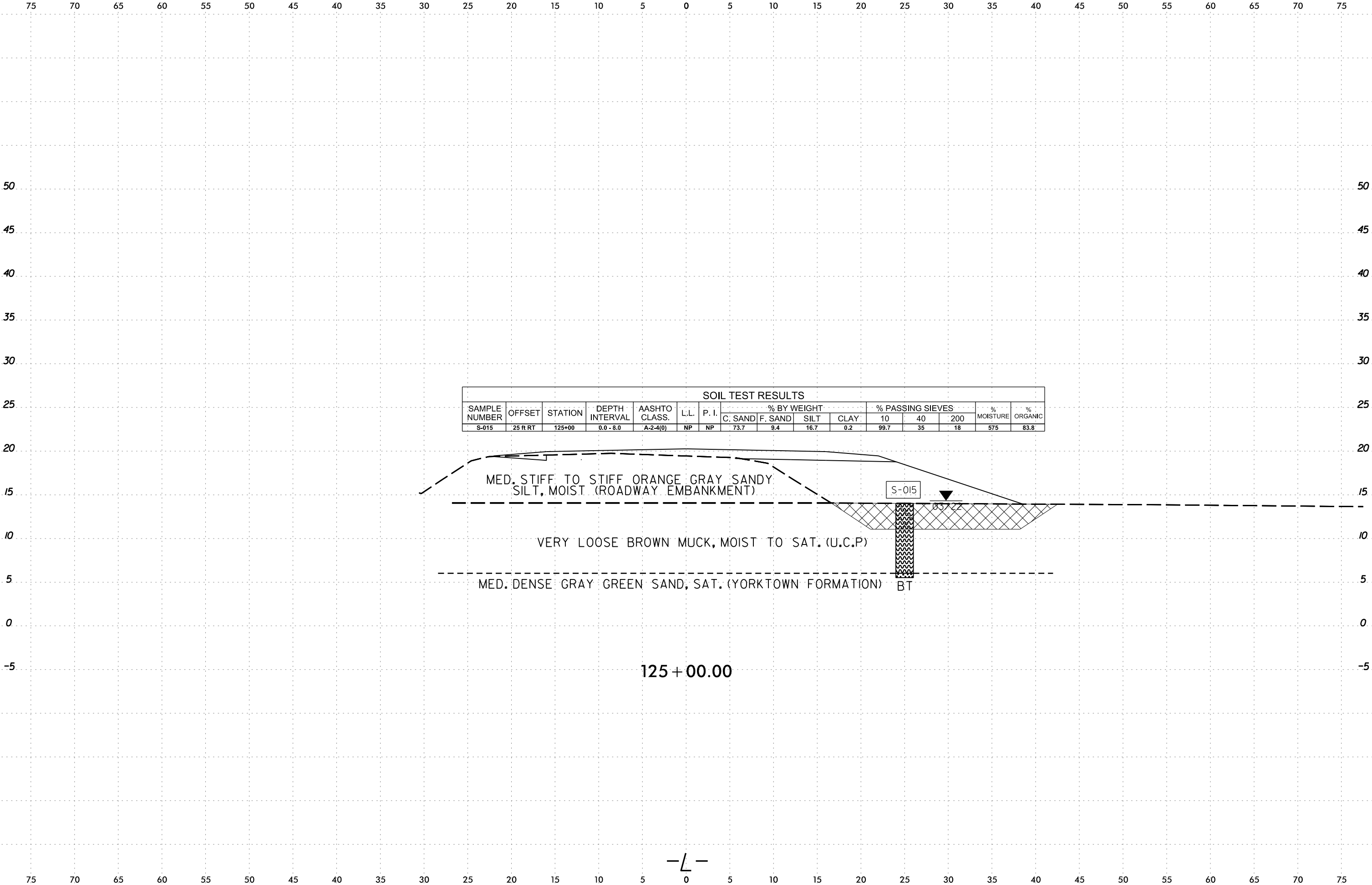




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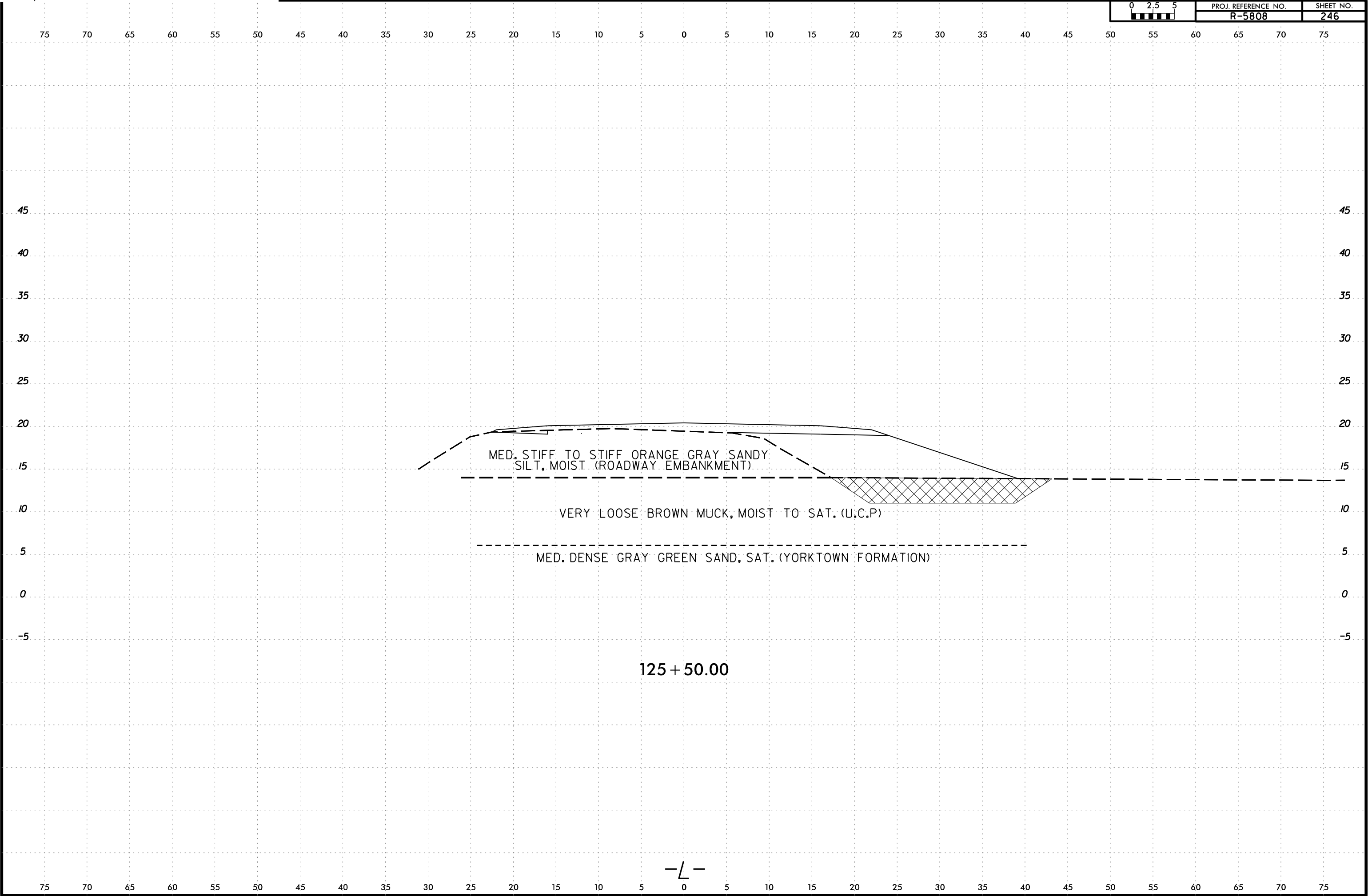
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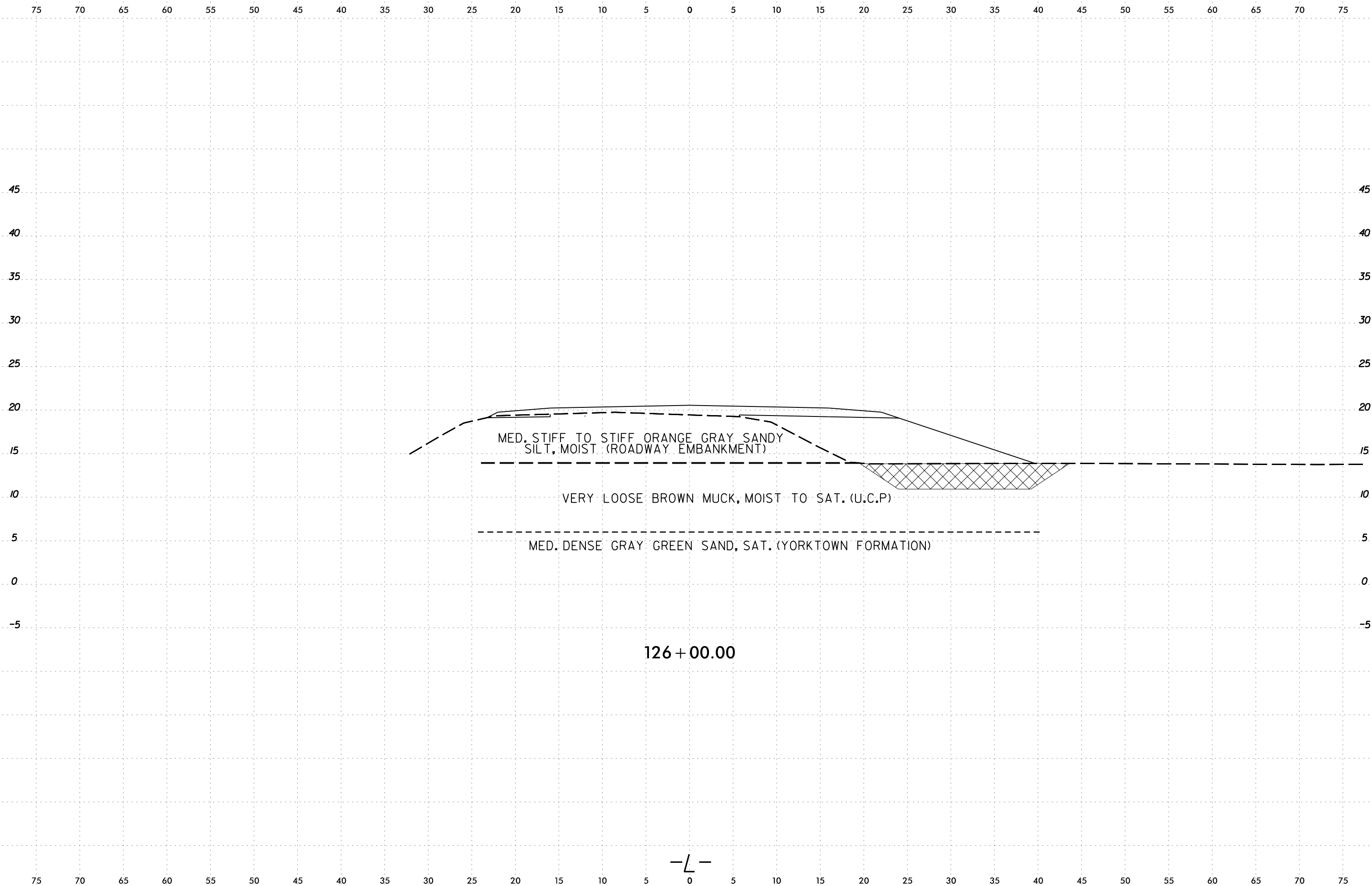


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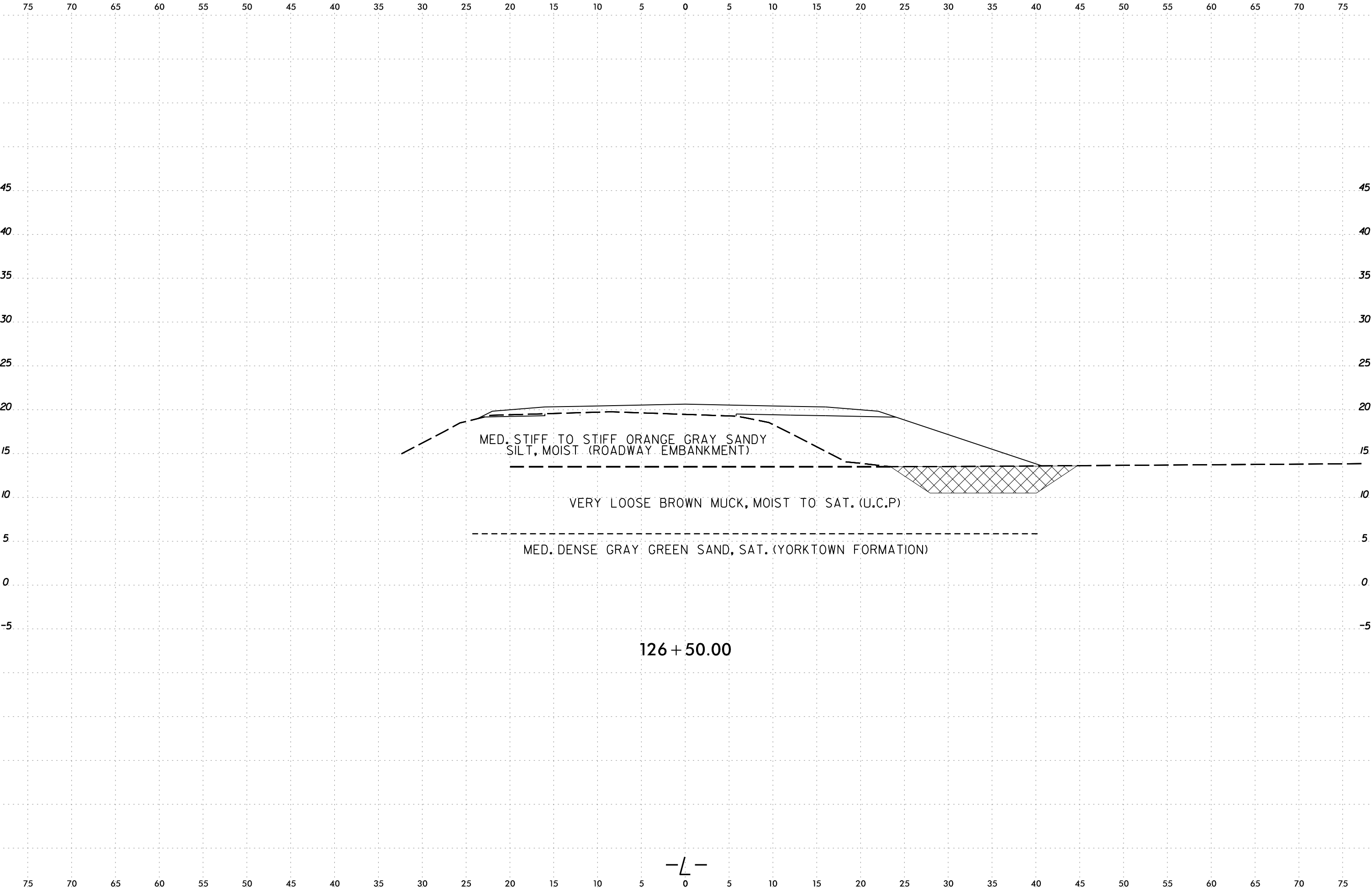




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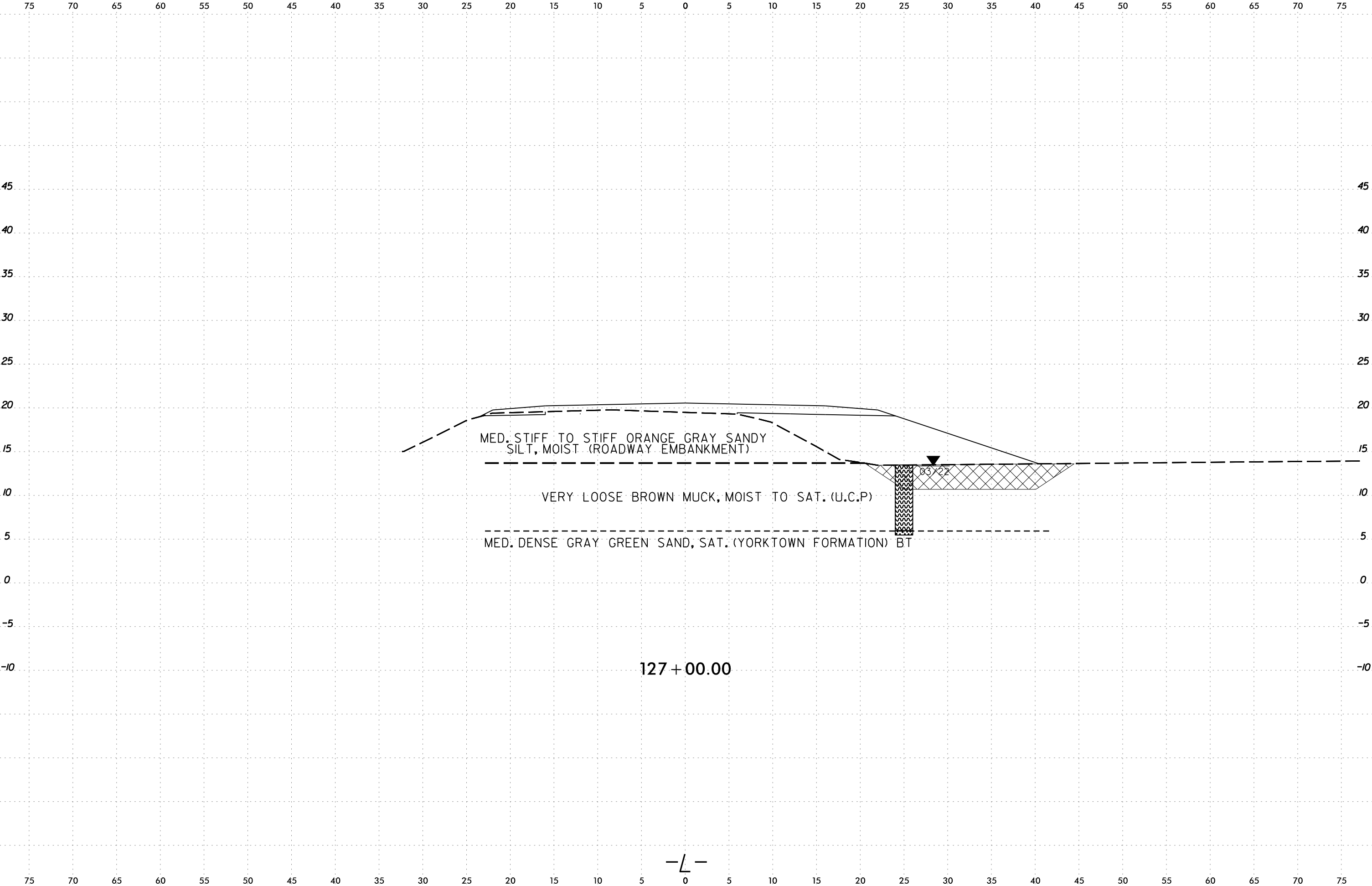
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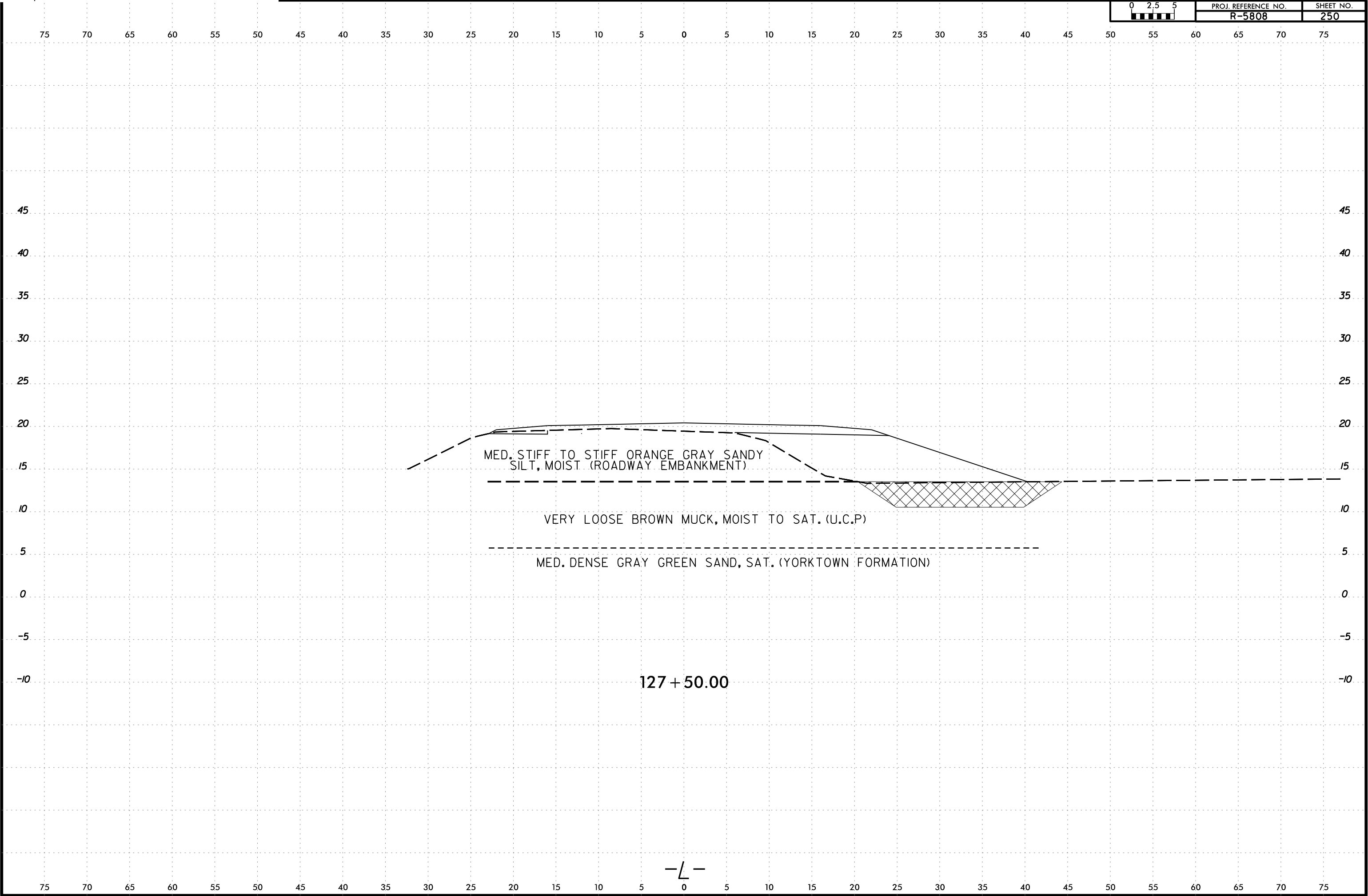
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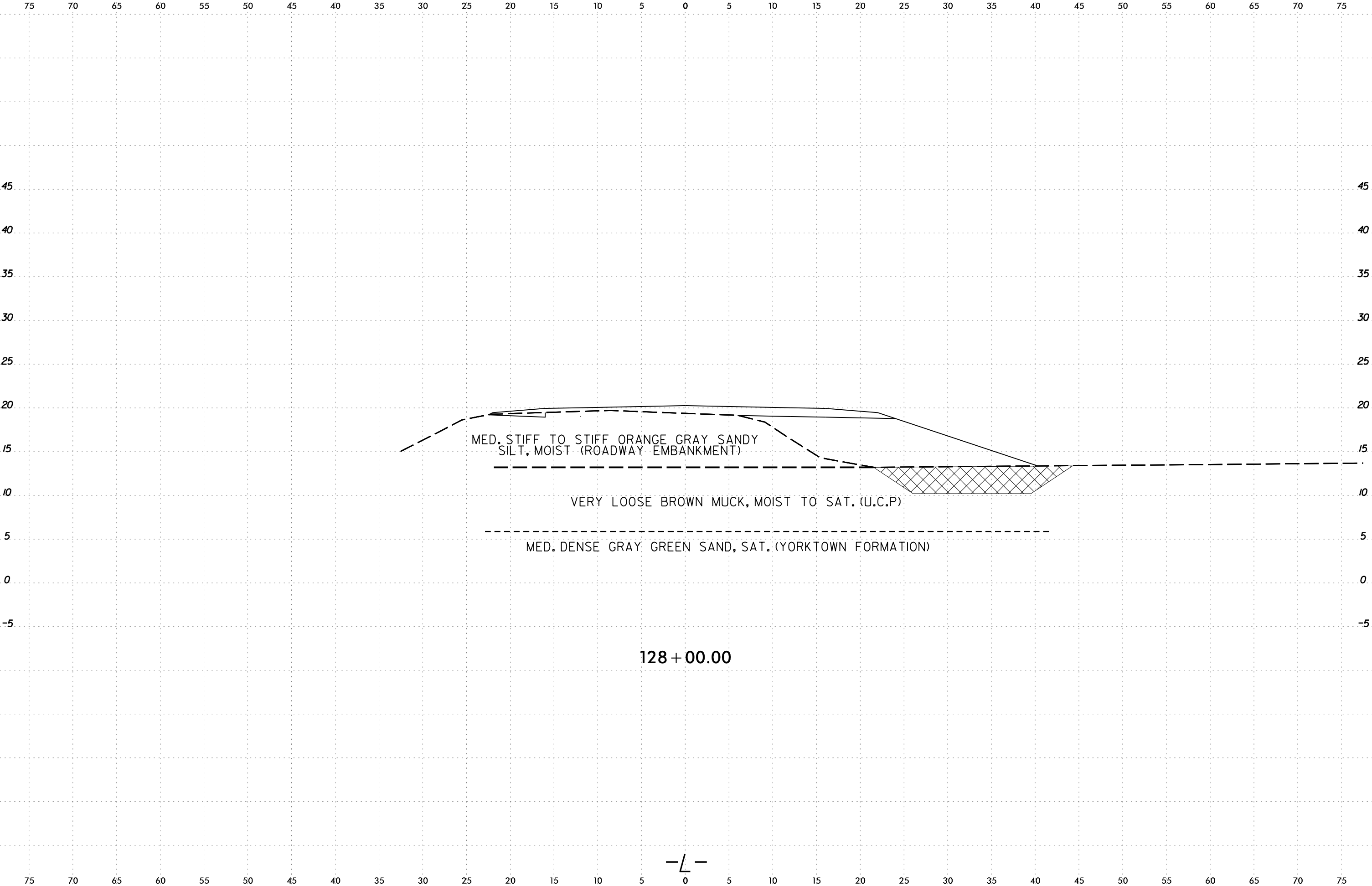


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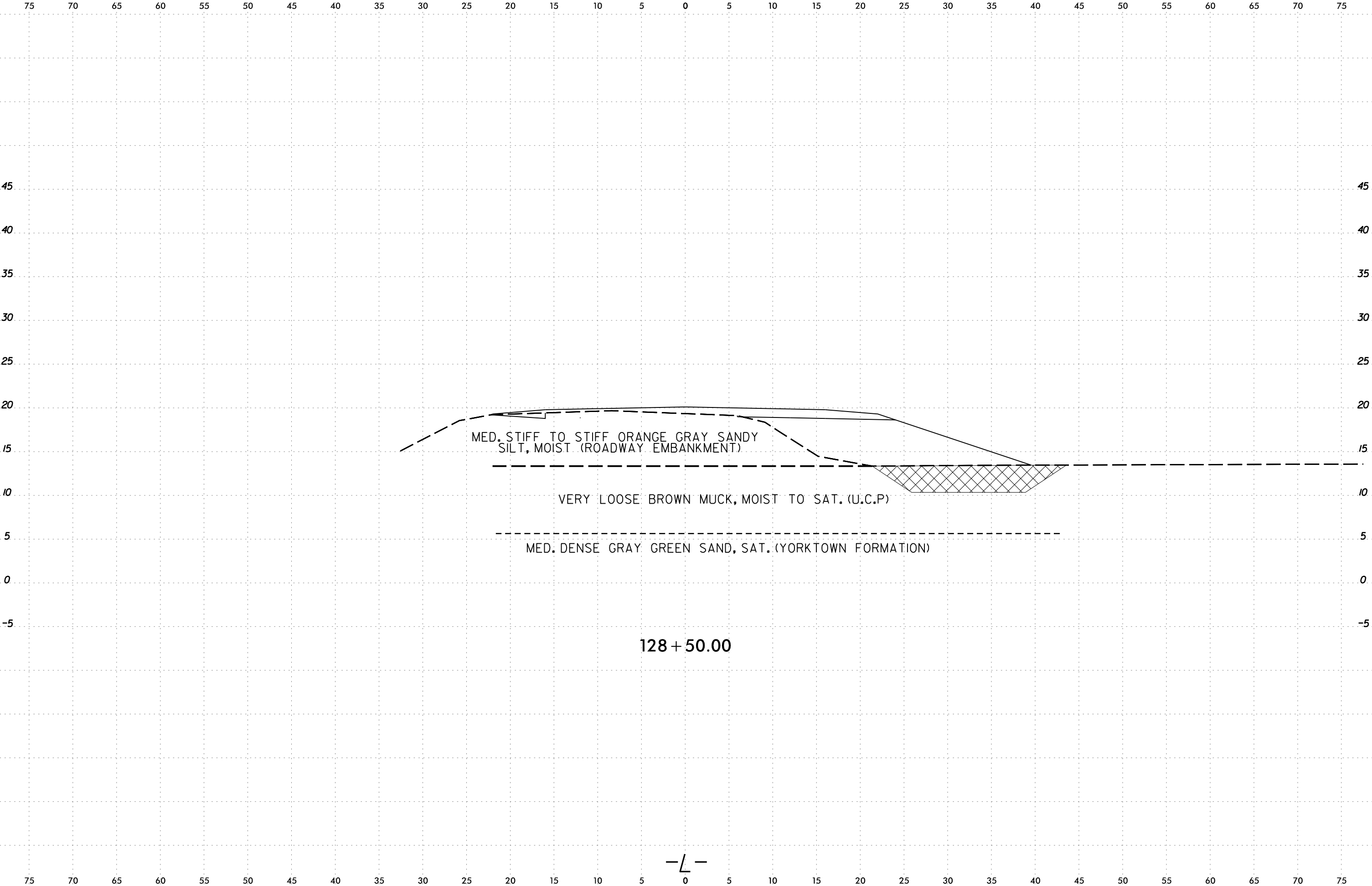
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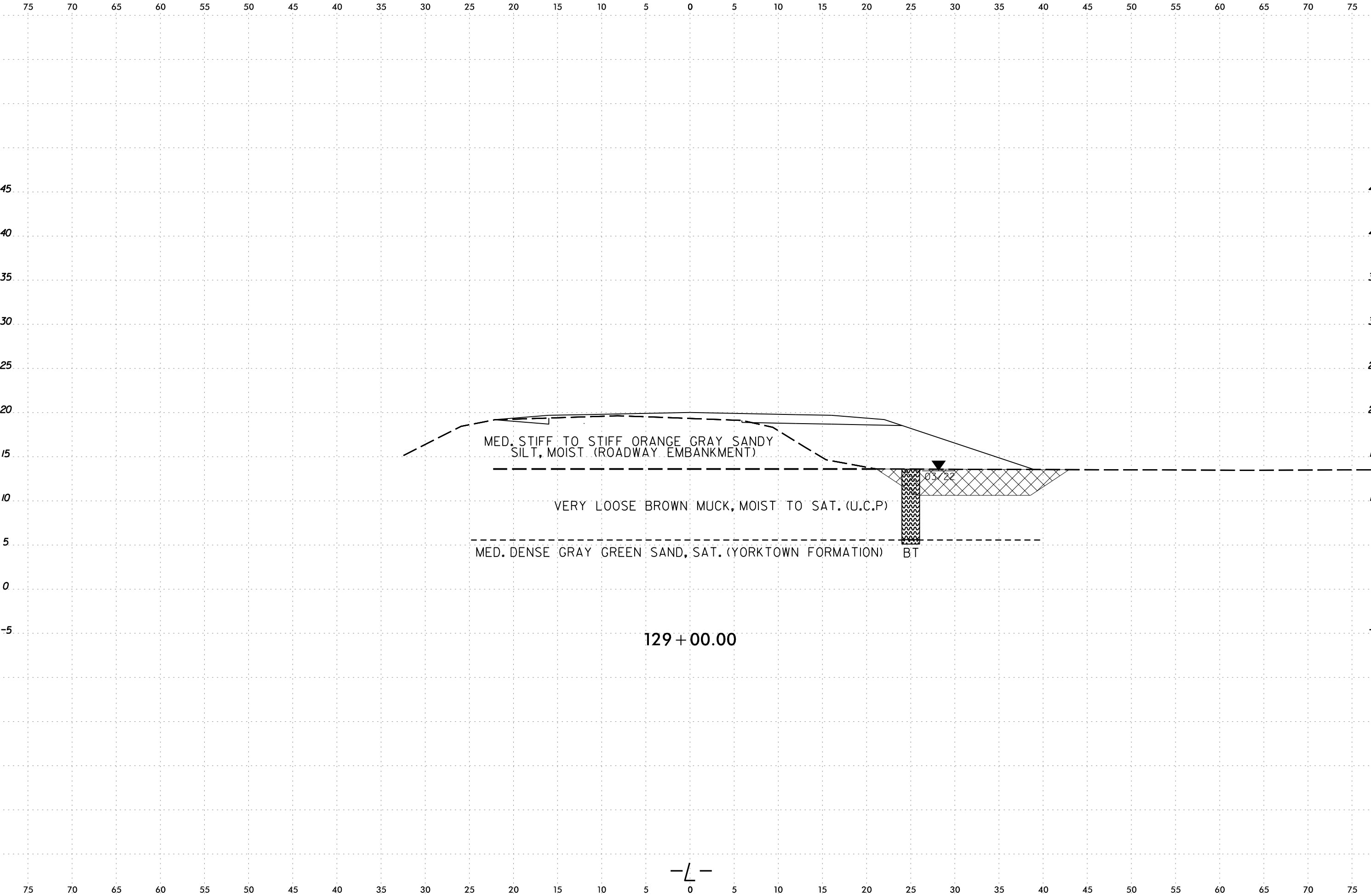
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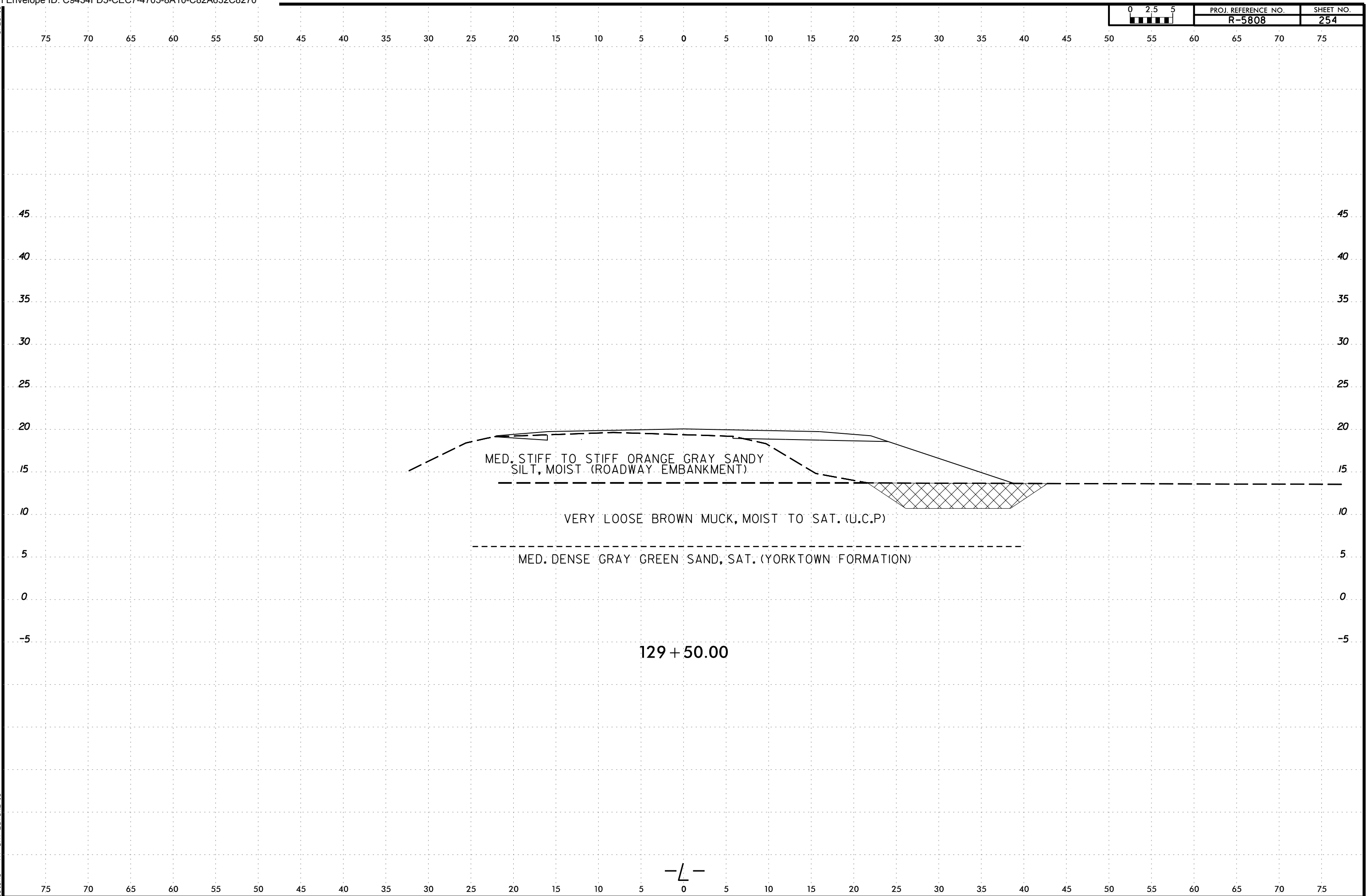


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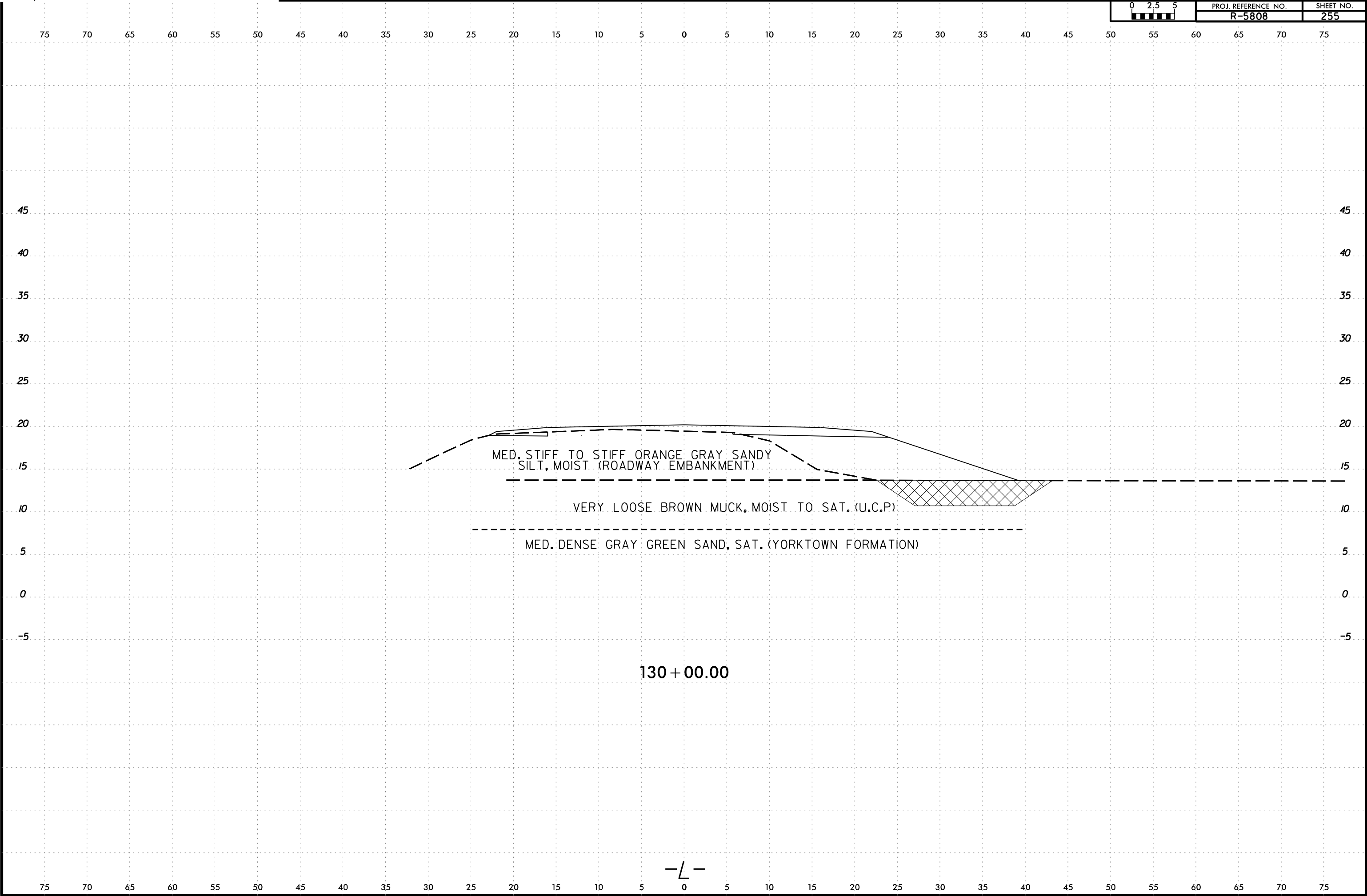




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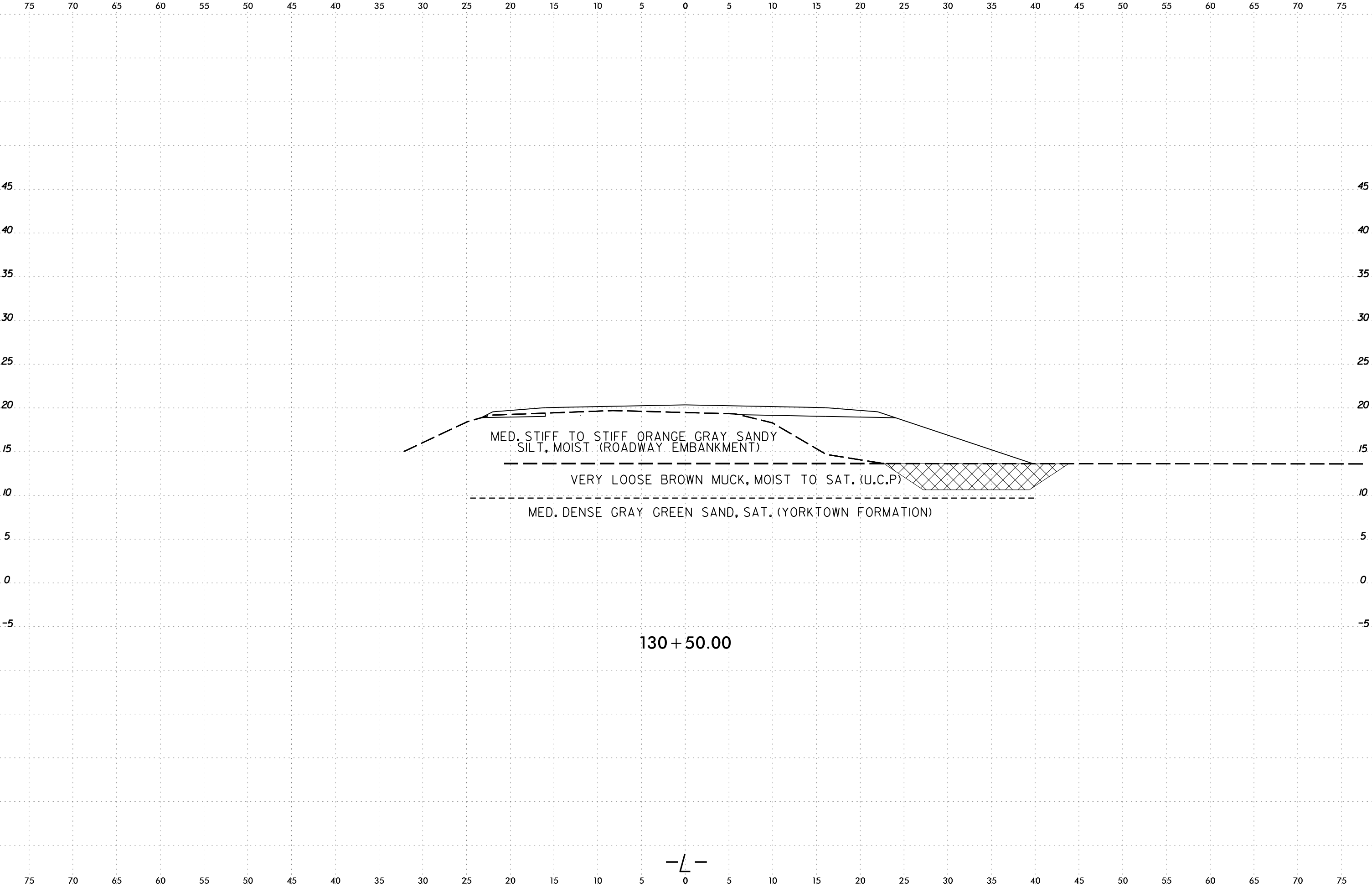
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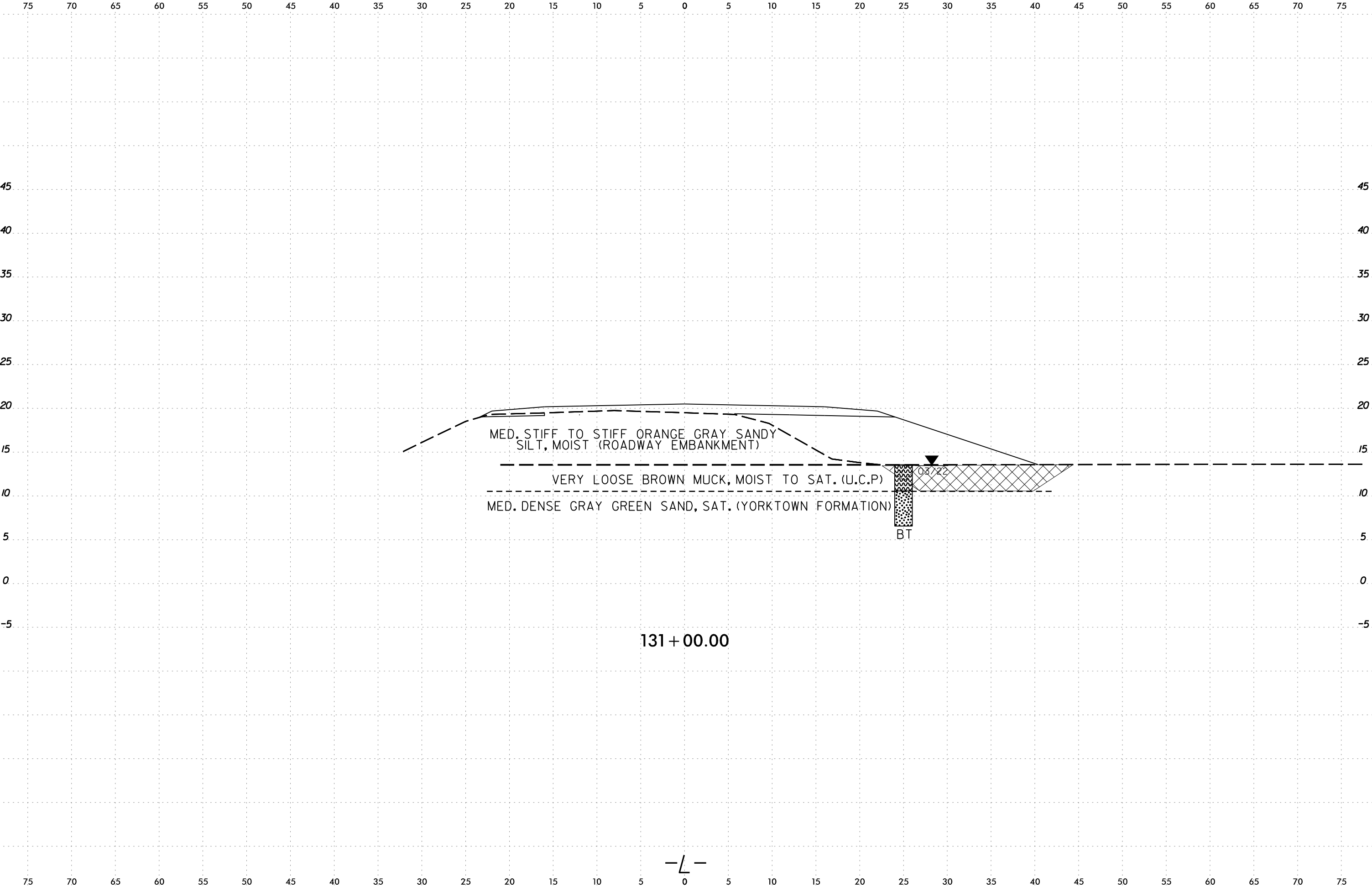
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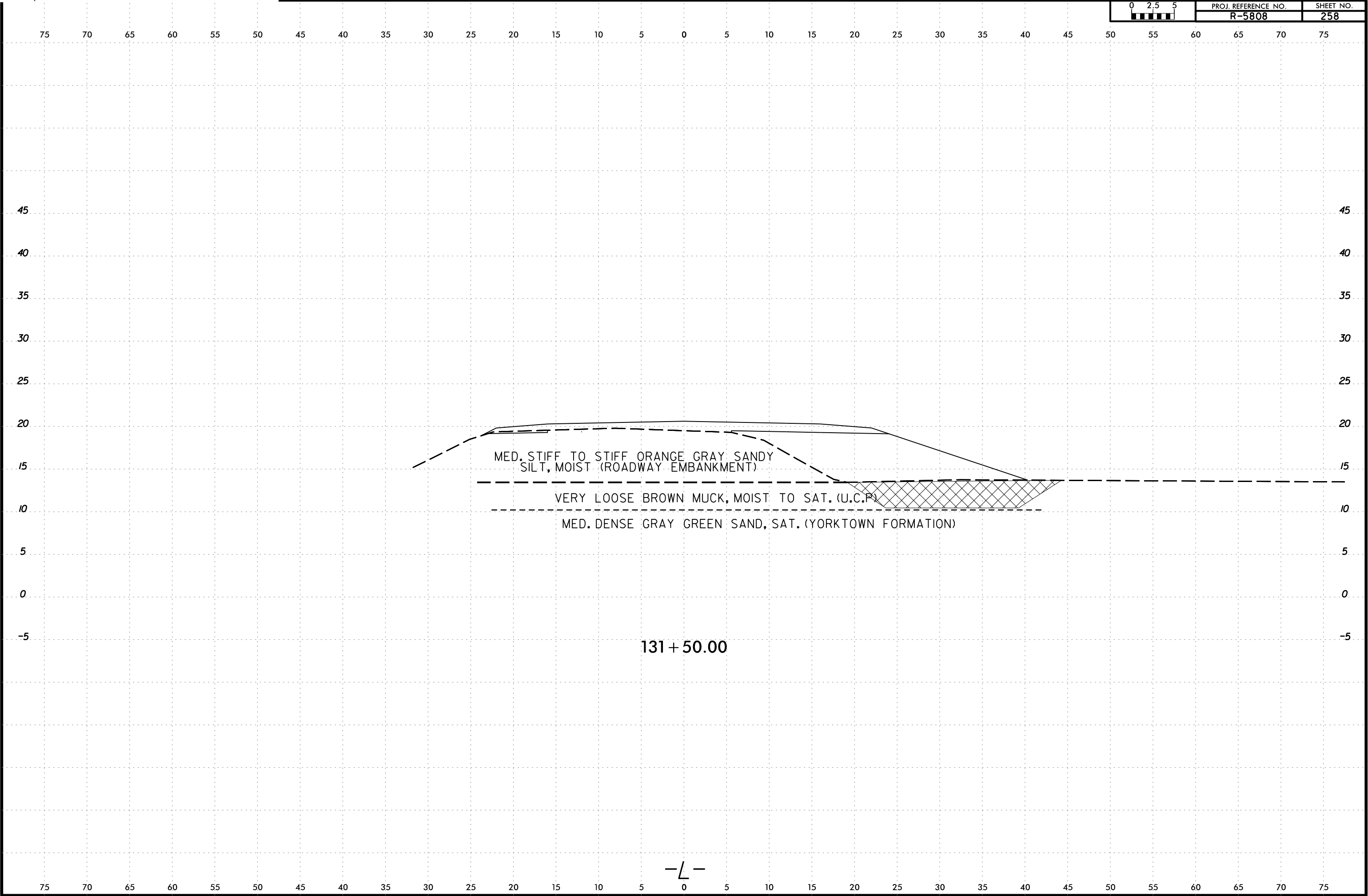
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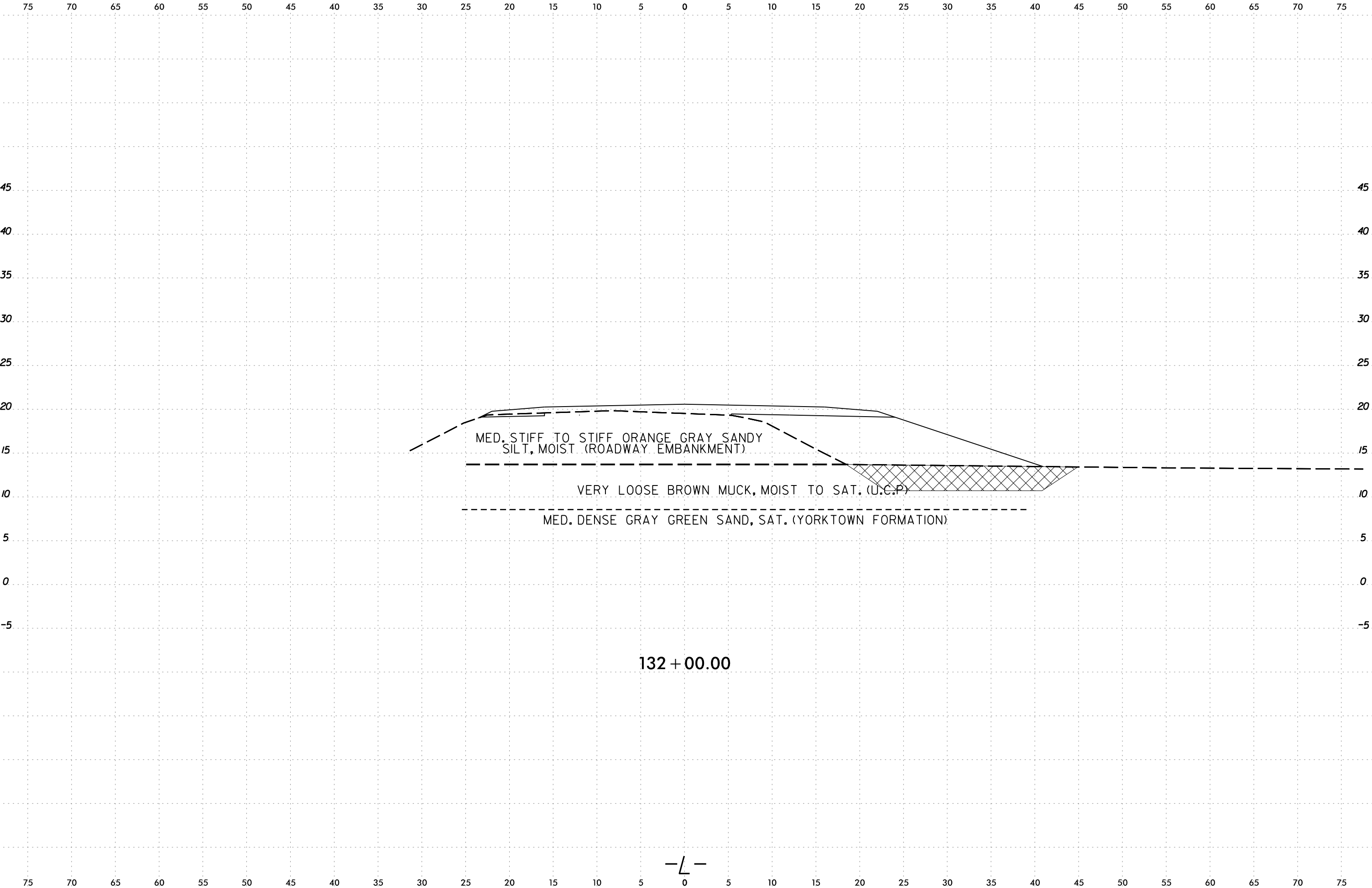


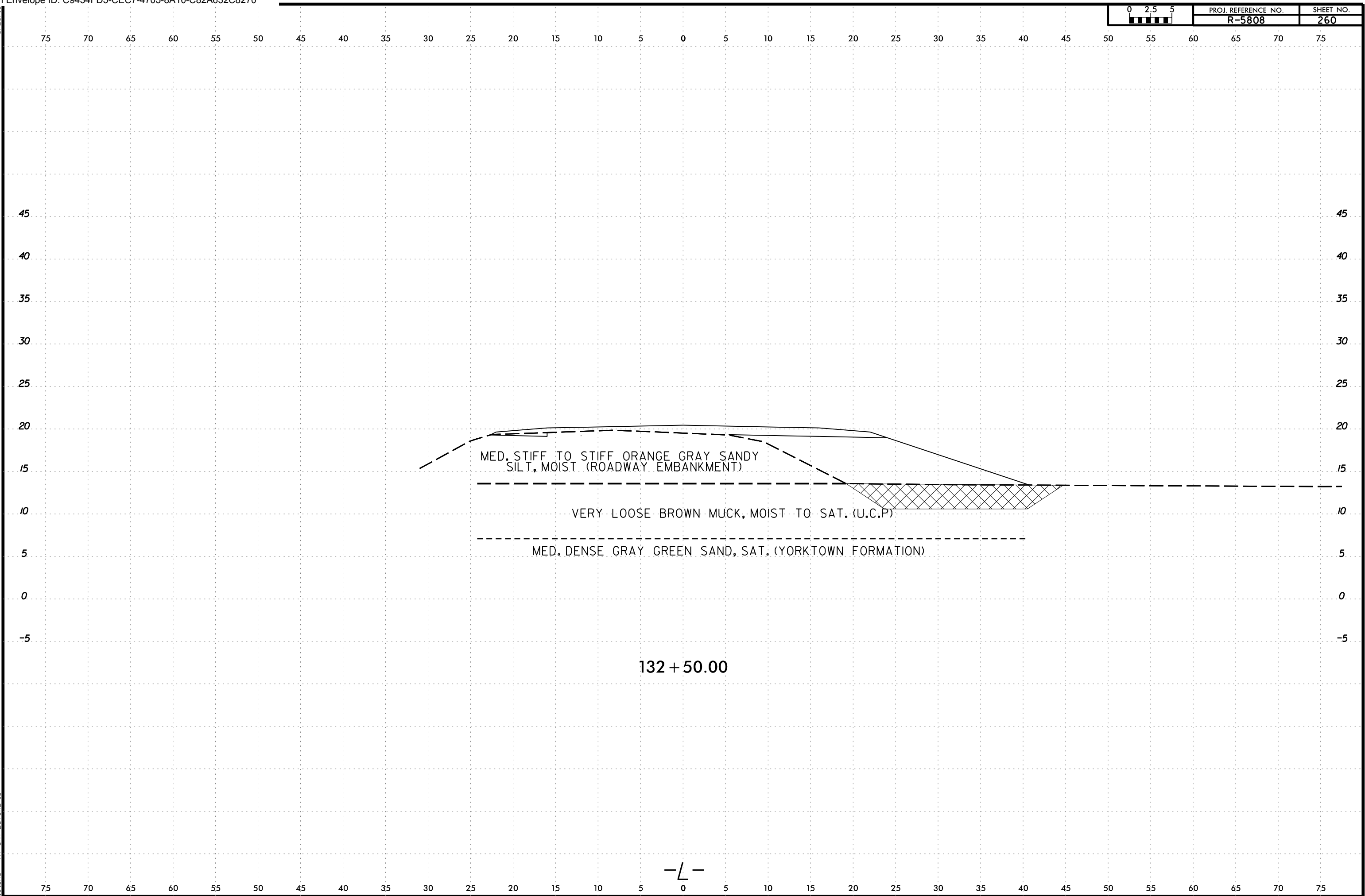
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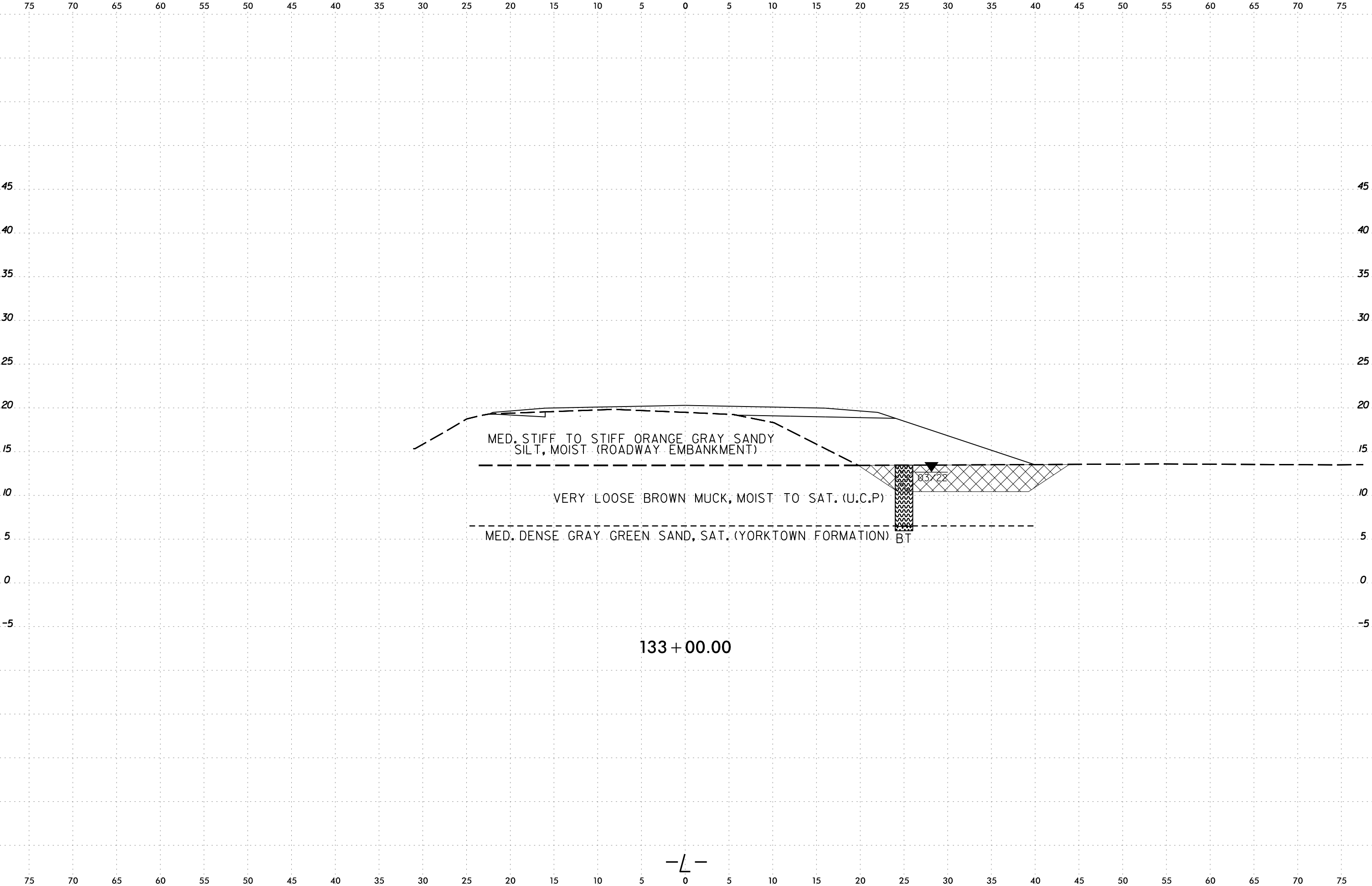




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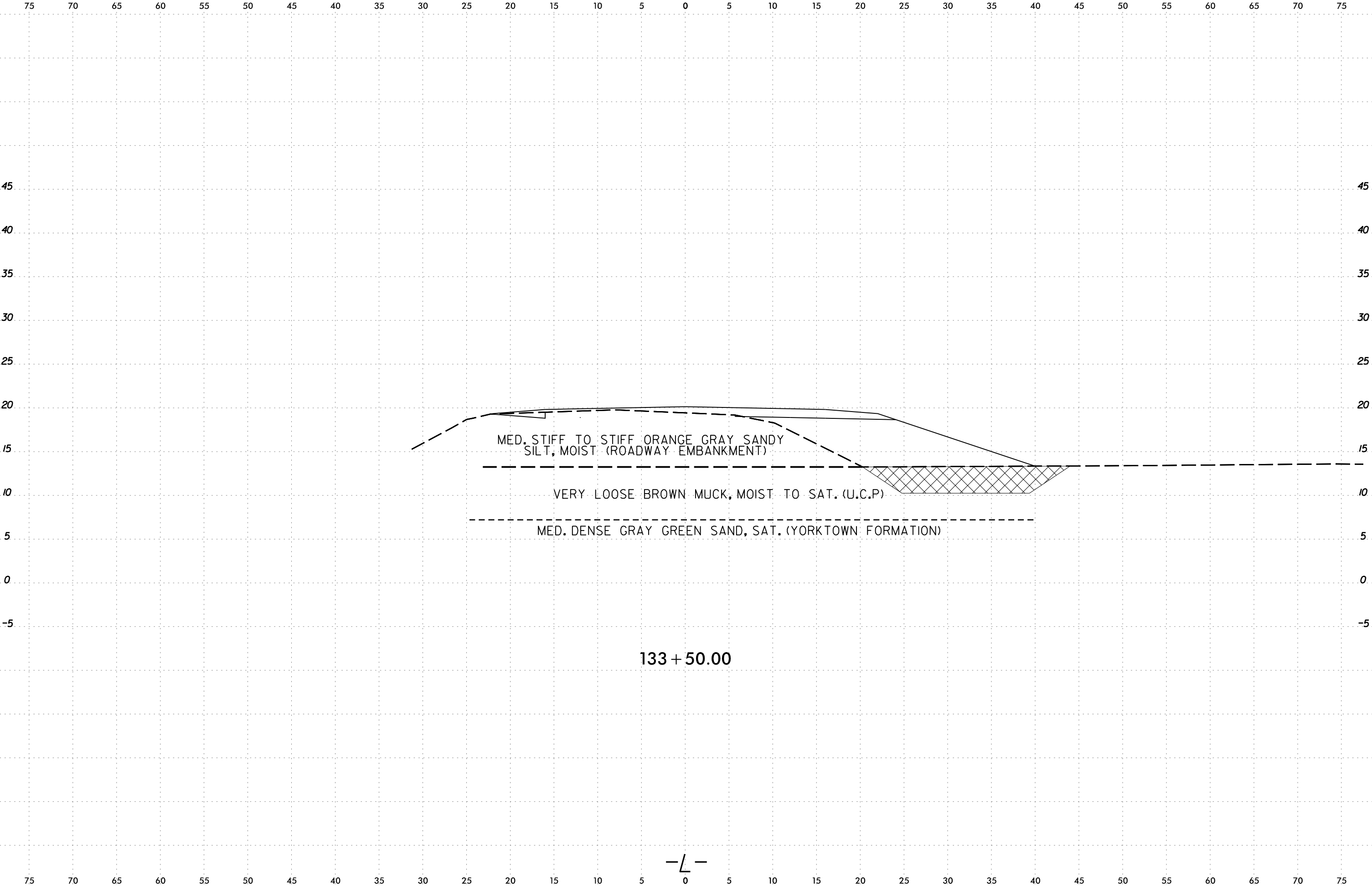
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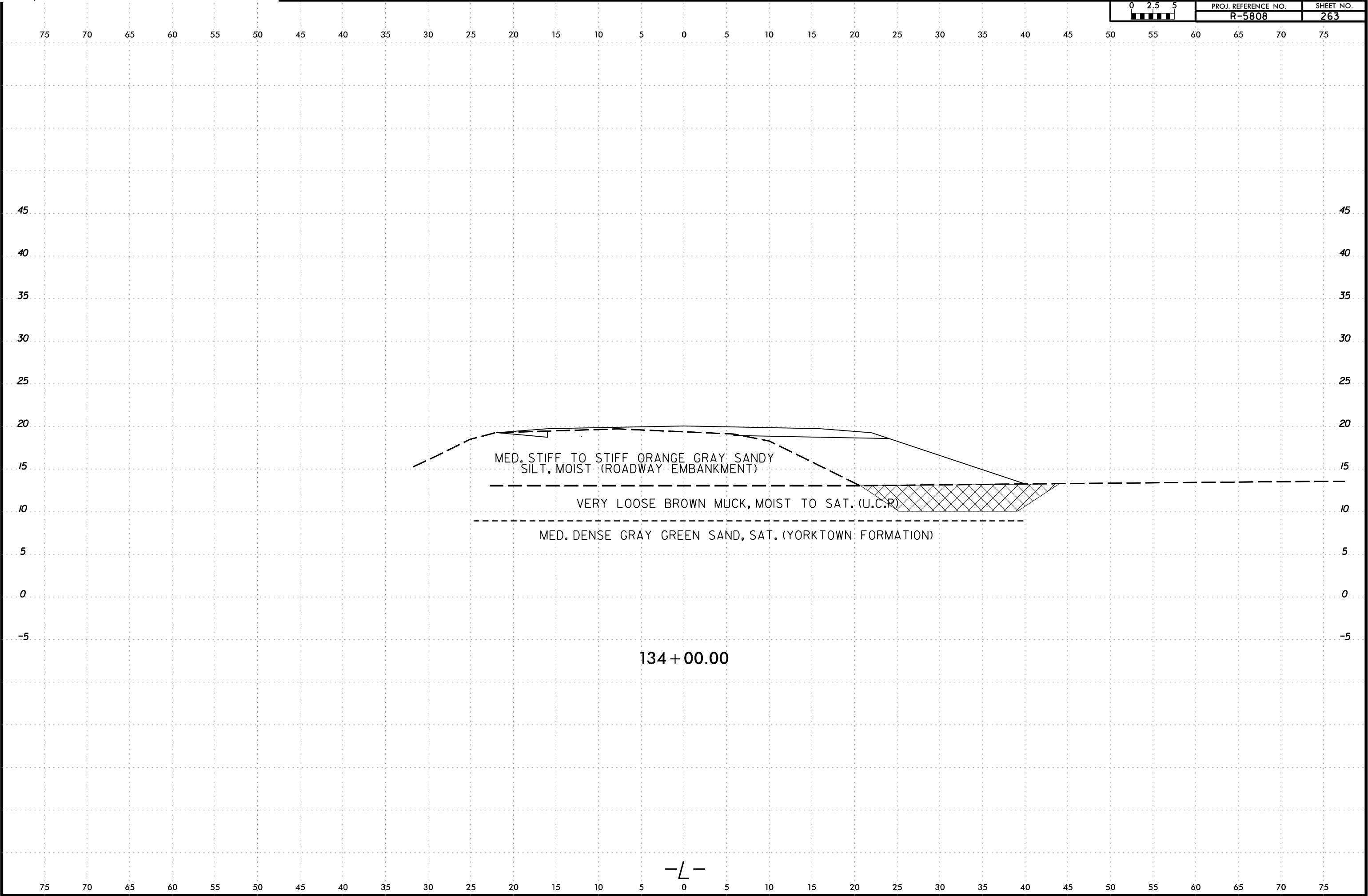
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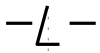


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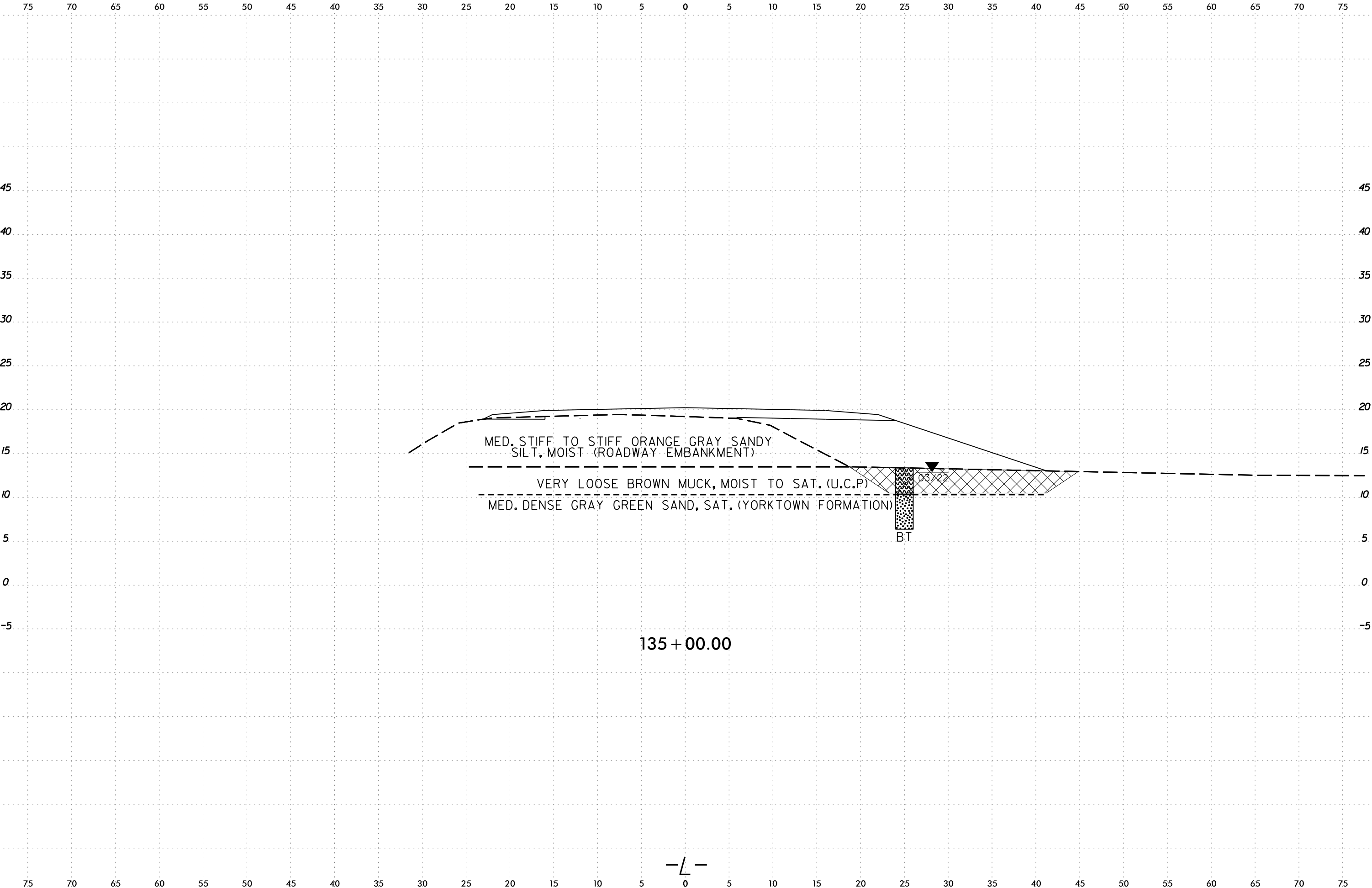




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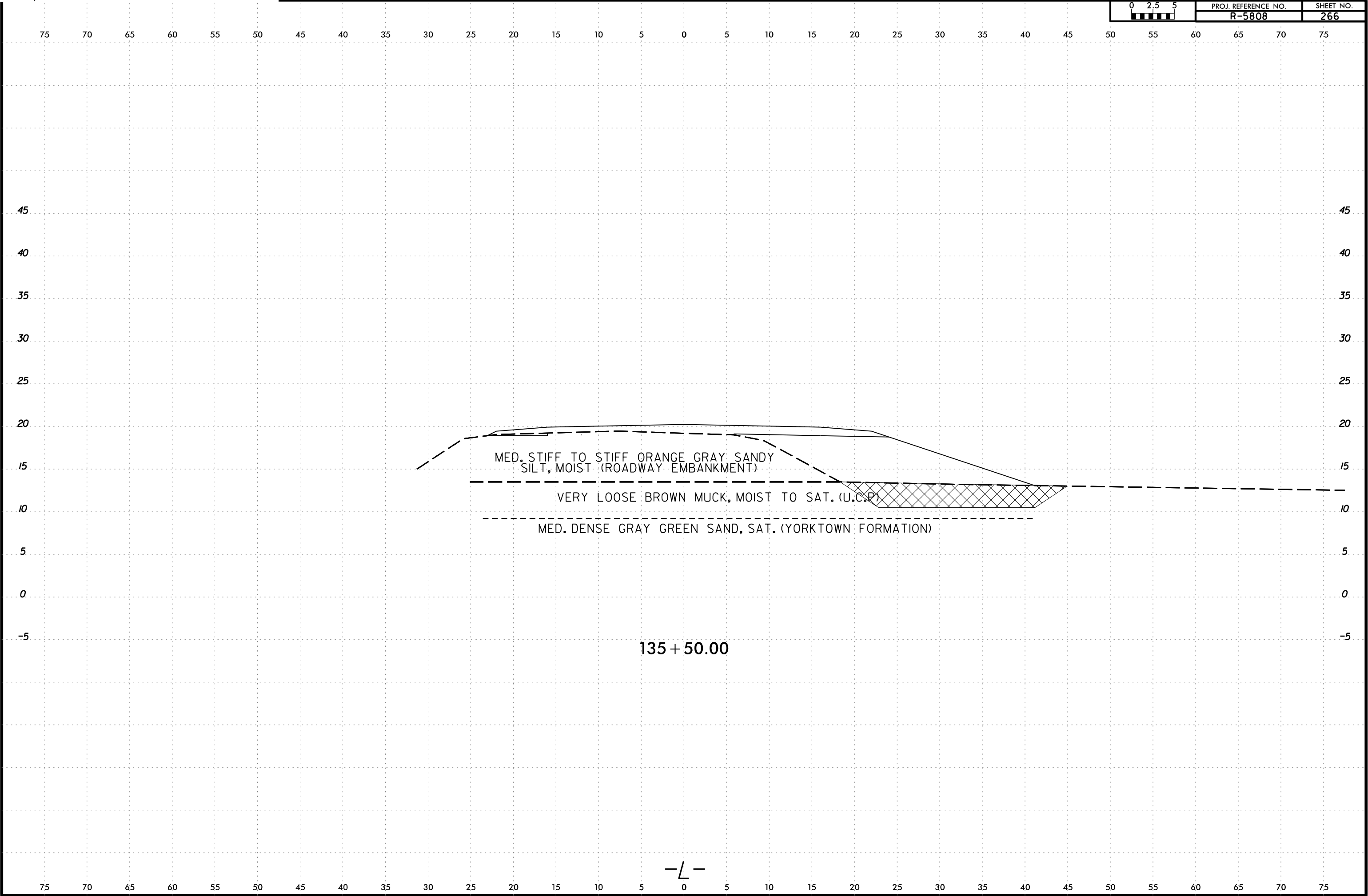


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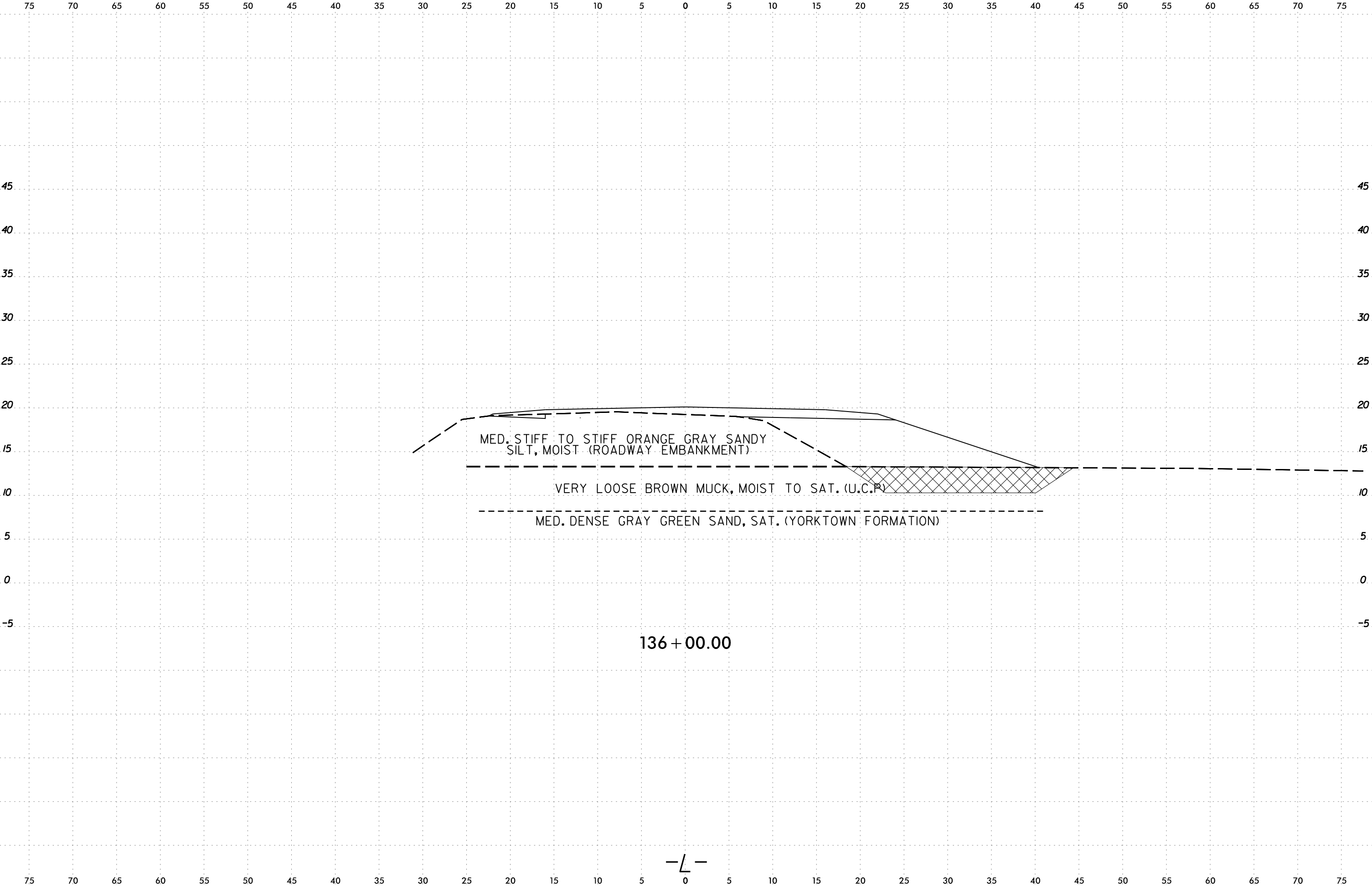


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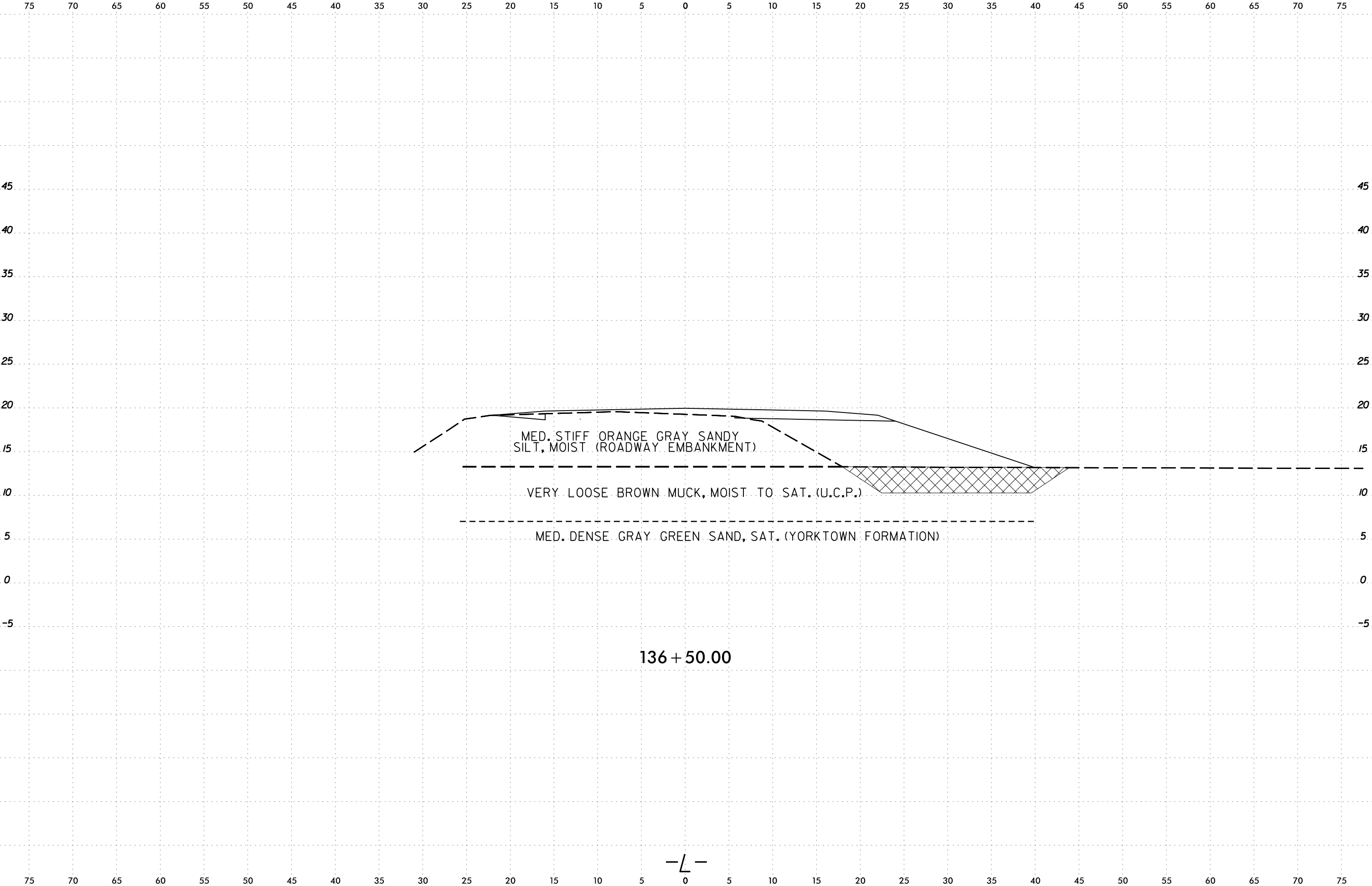
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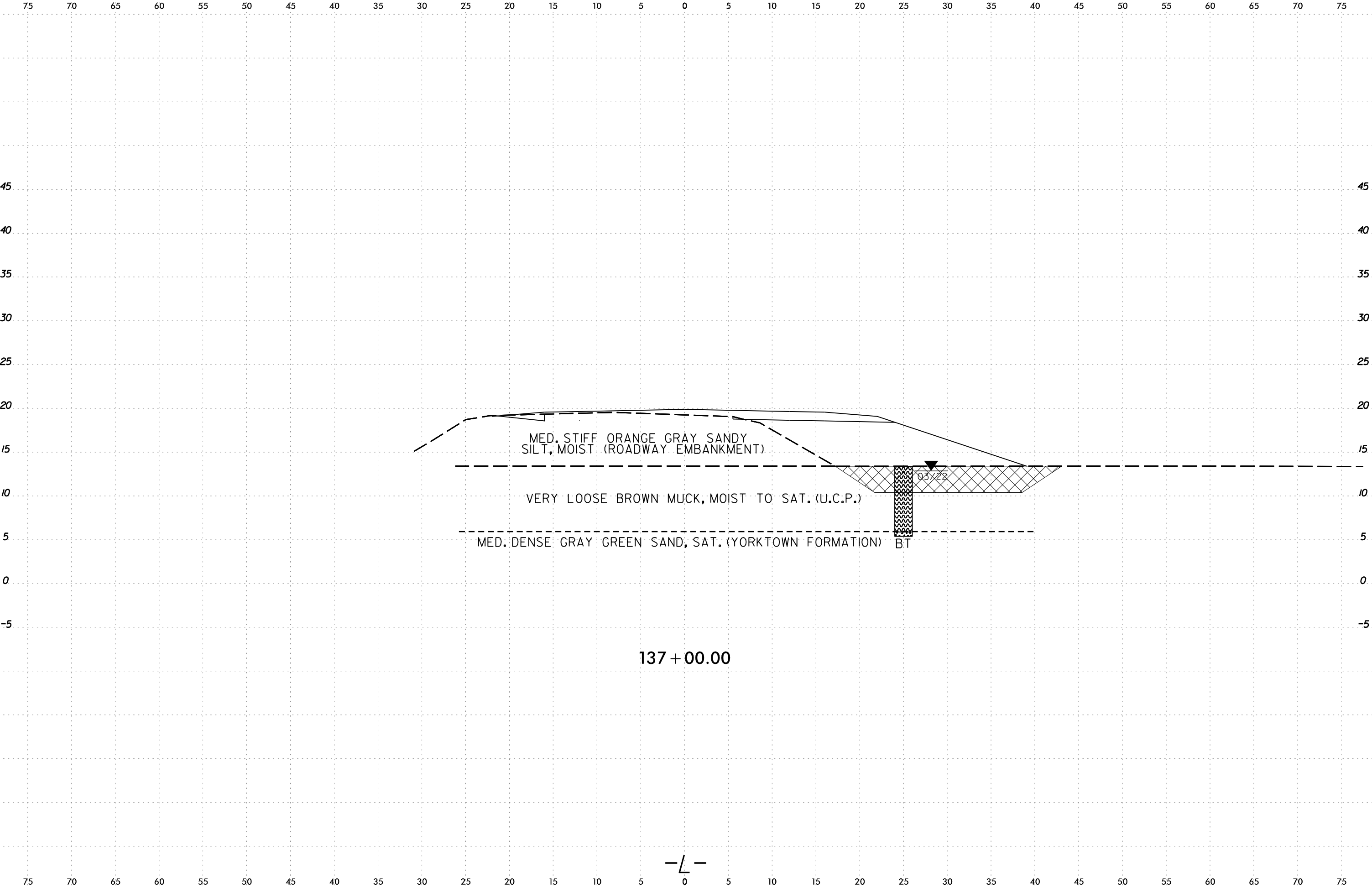
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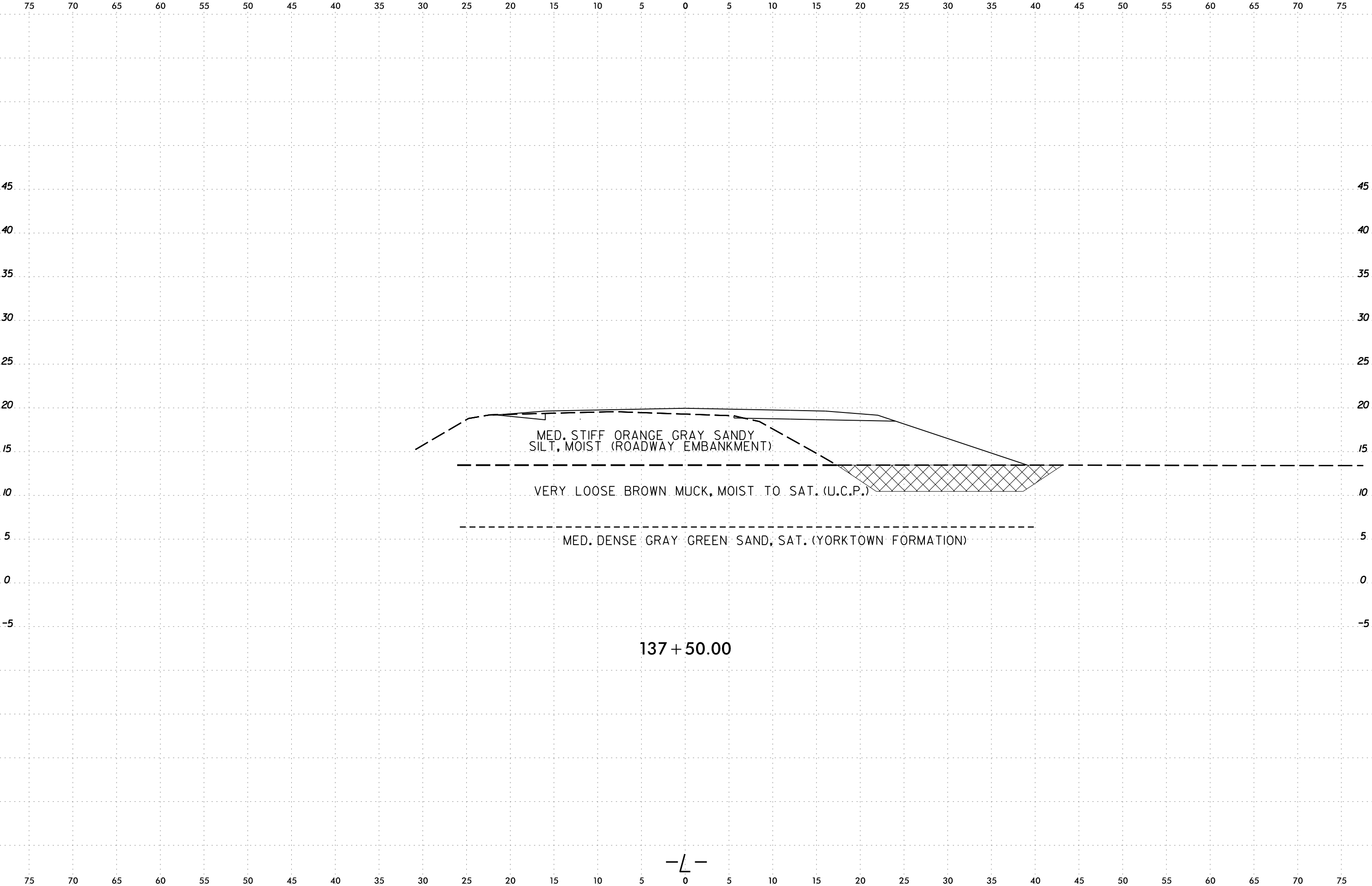


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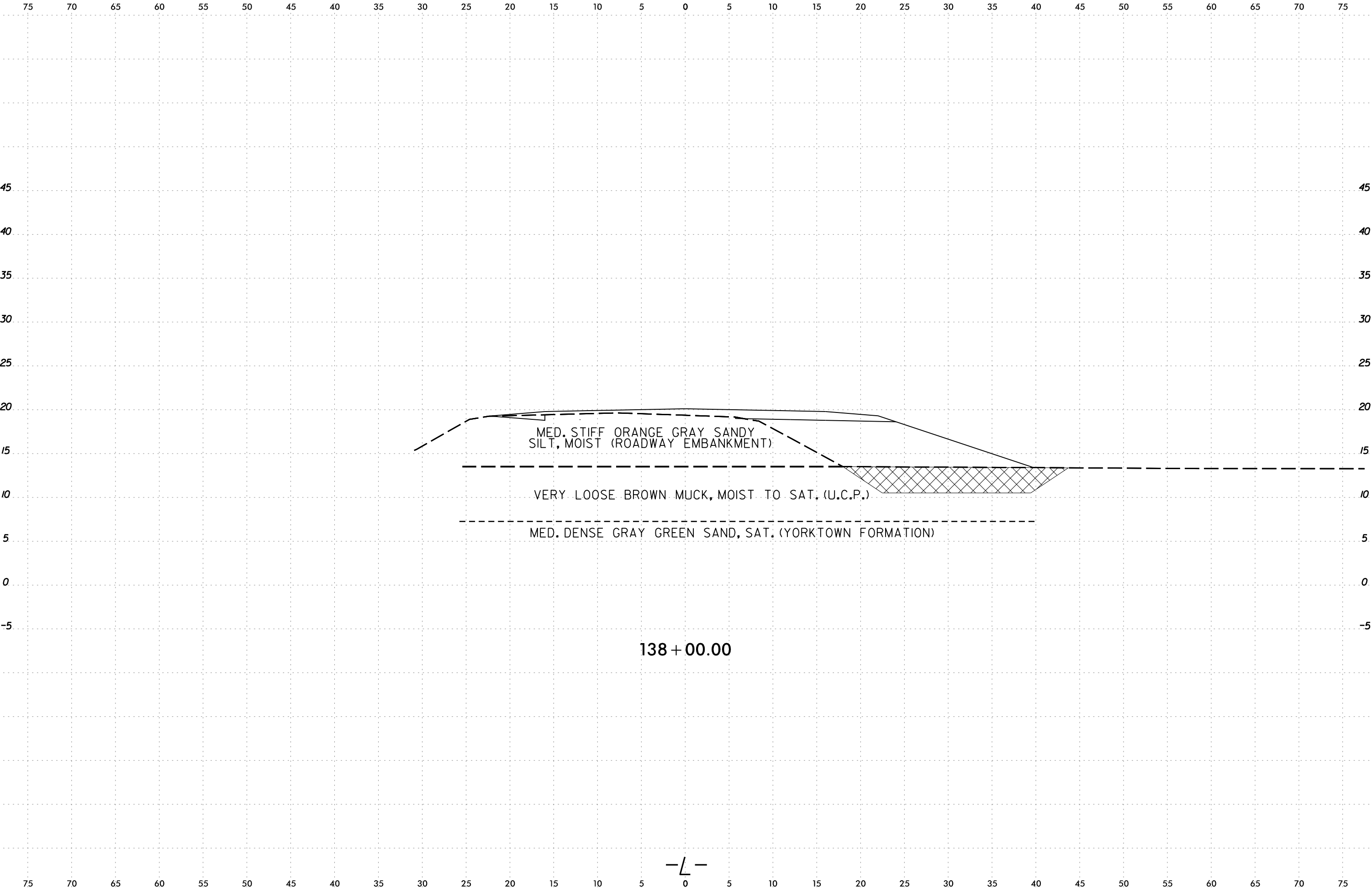
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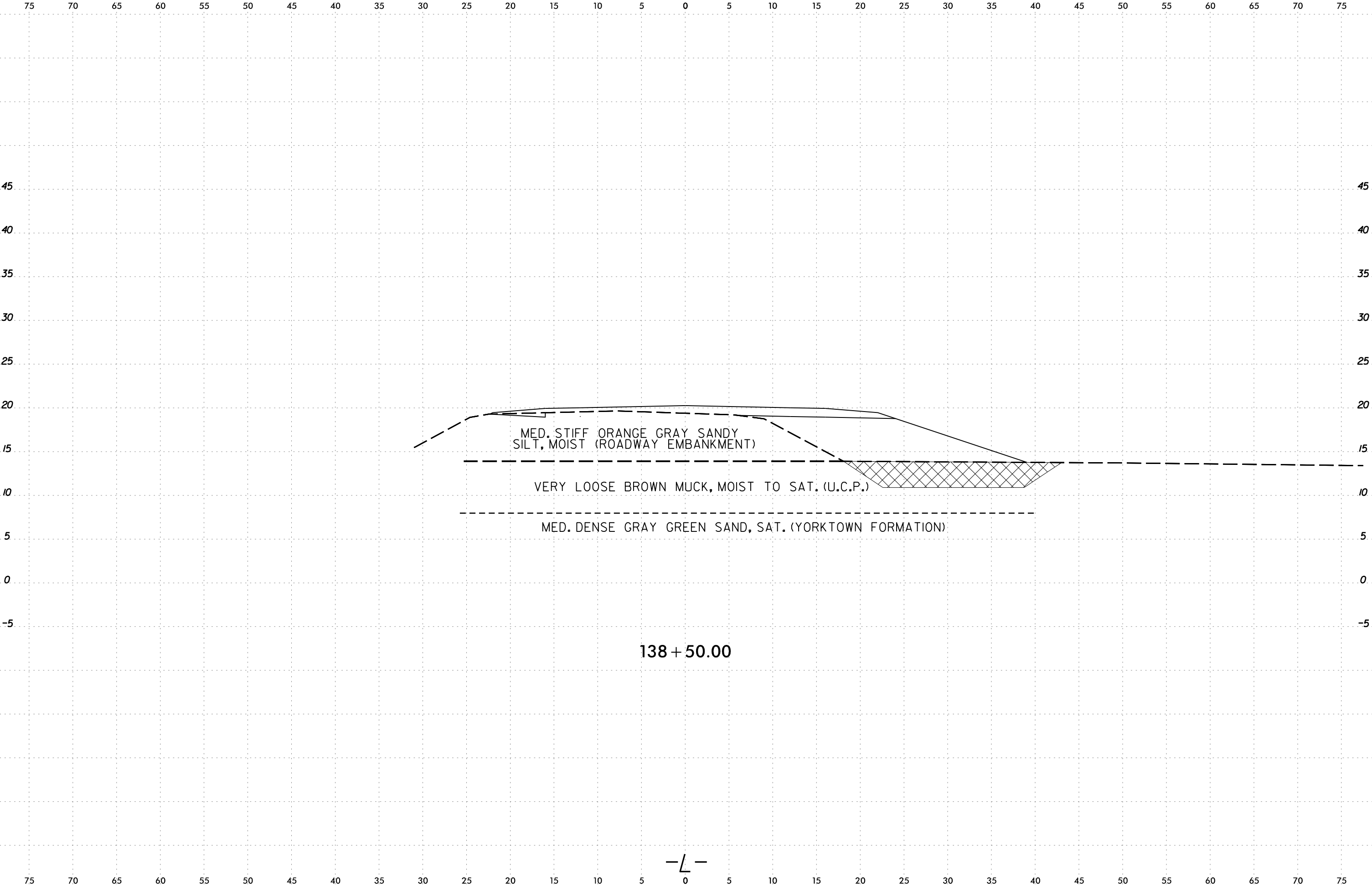
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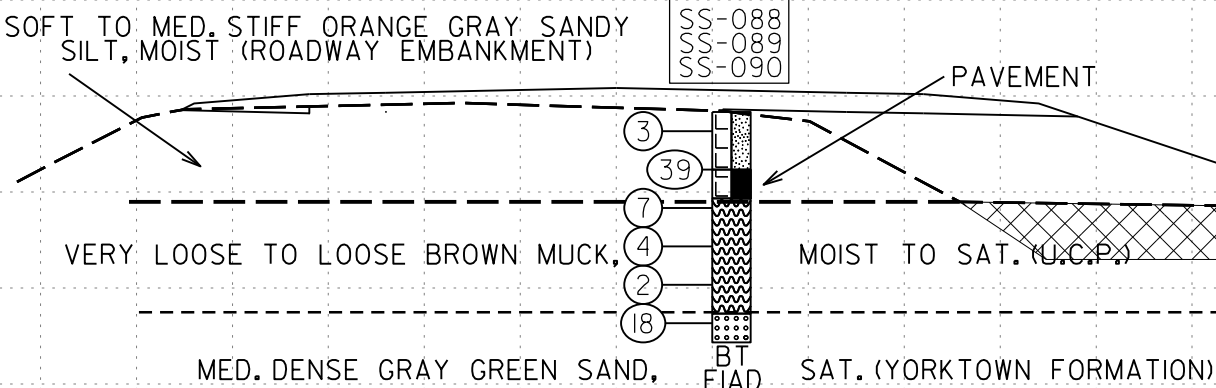
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jstone CAT-1 STONE-18

SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-088	6 ft RT	139+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	60.5
SS-089	6 ft RT	139+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	29.8
SS-090	6 ft RT	139+00	10.5 - 12.0	A-3(0)	NP	NP	47.1	49.2	3.6	0.1	99.3	81	4	-	-

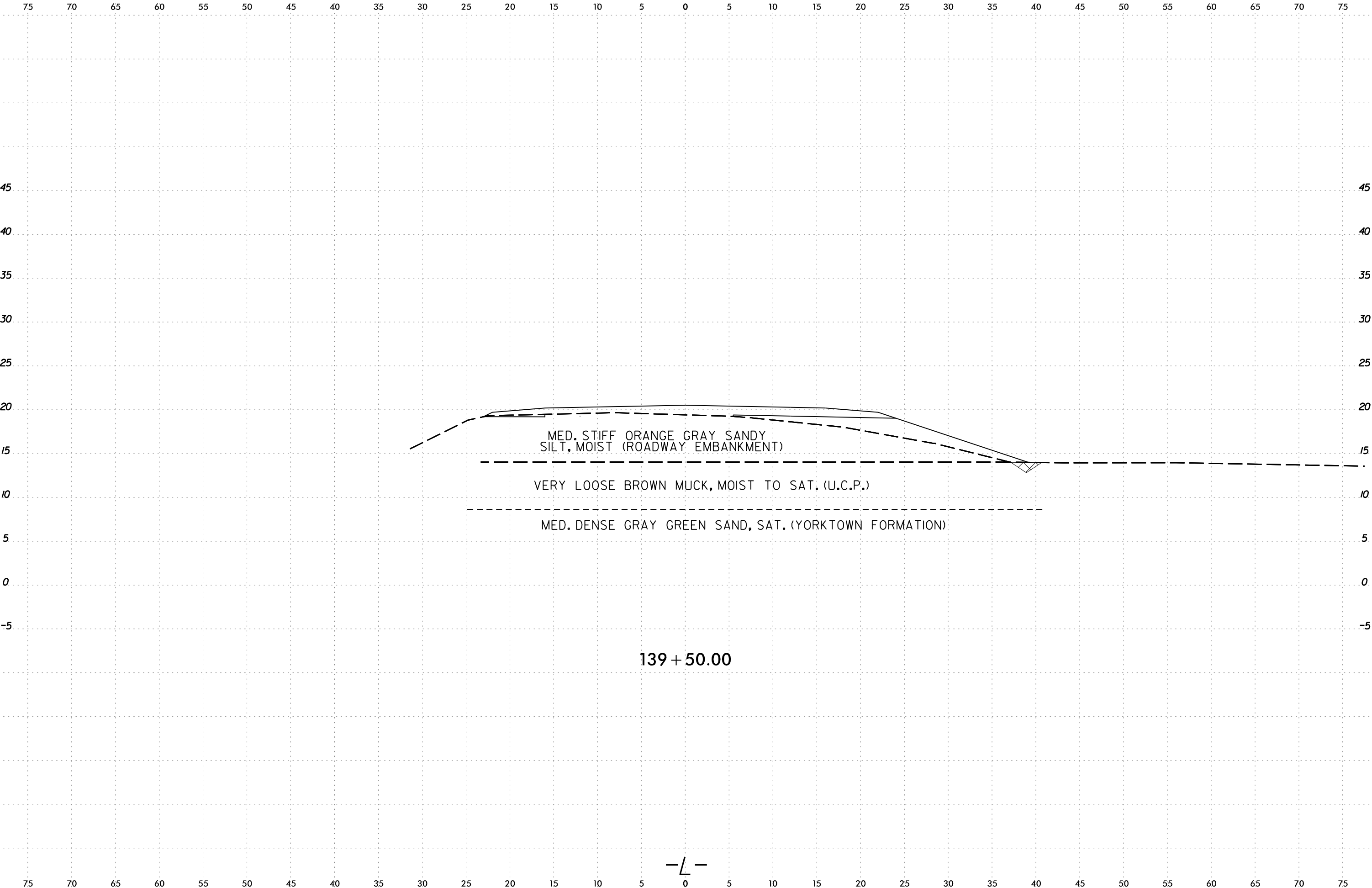


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AT CAT-1 STONE-18

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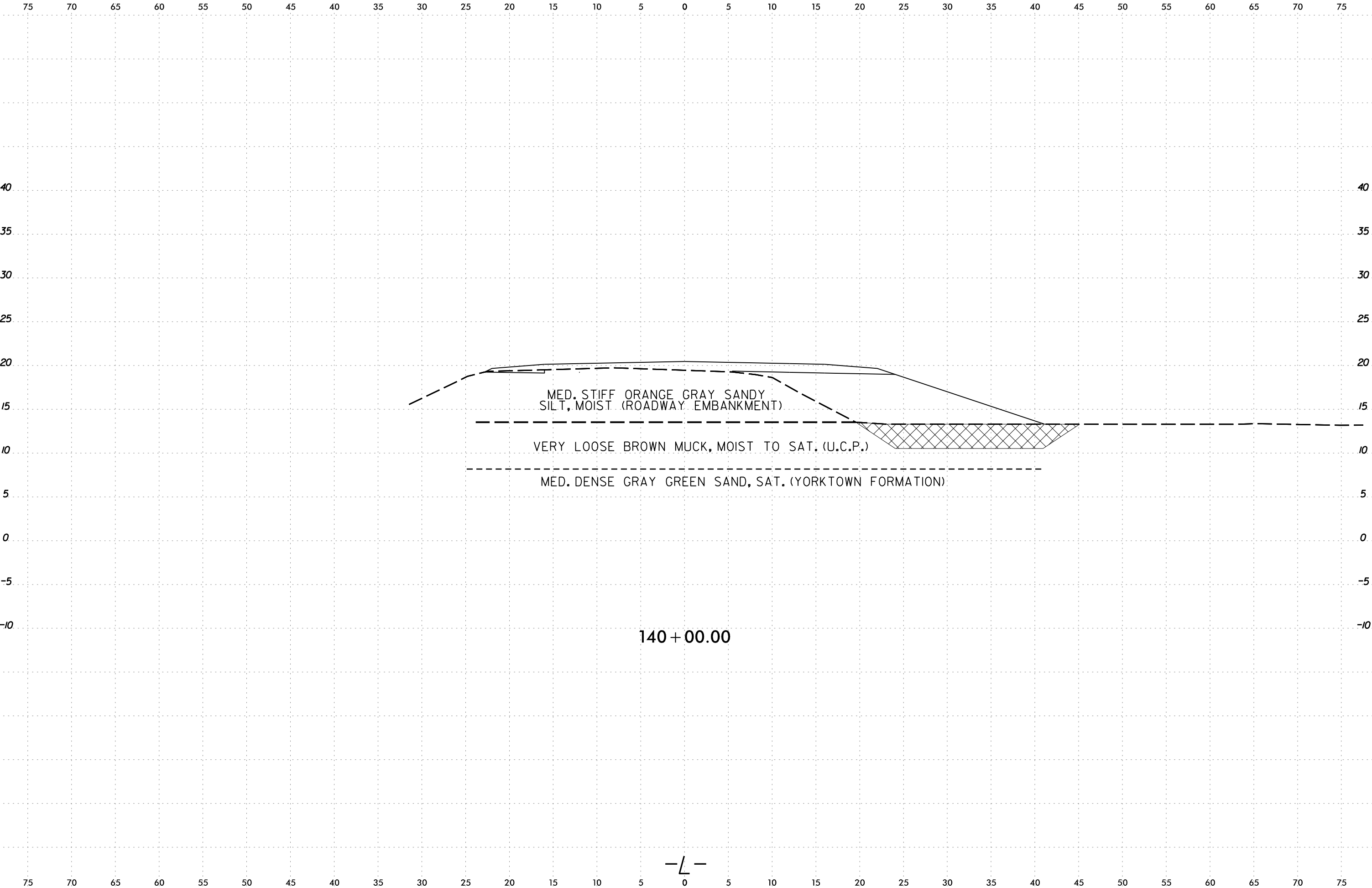


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AT CAT-1-1-1-18

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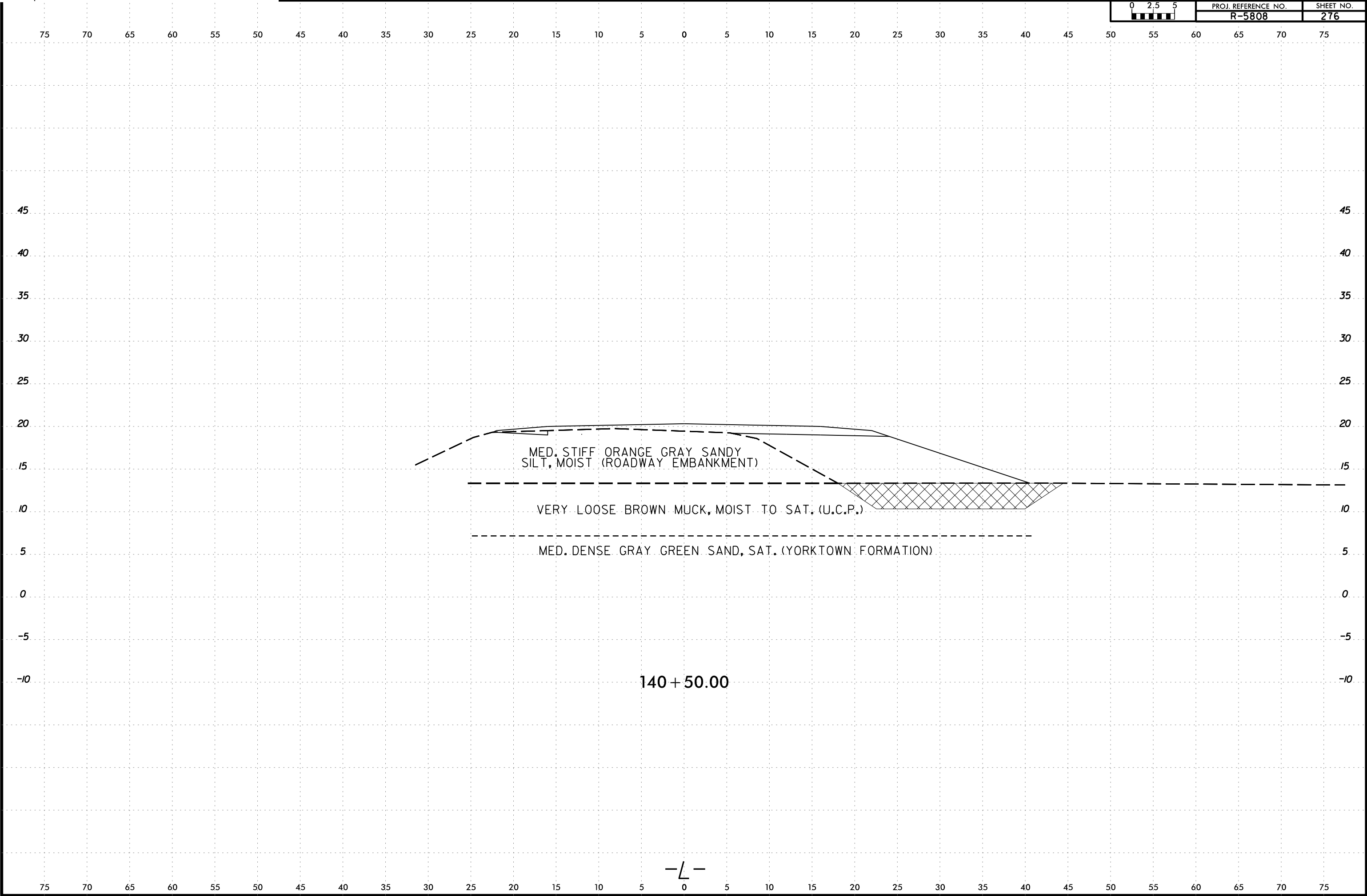


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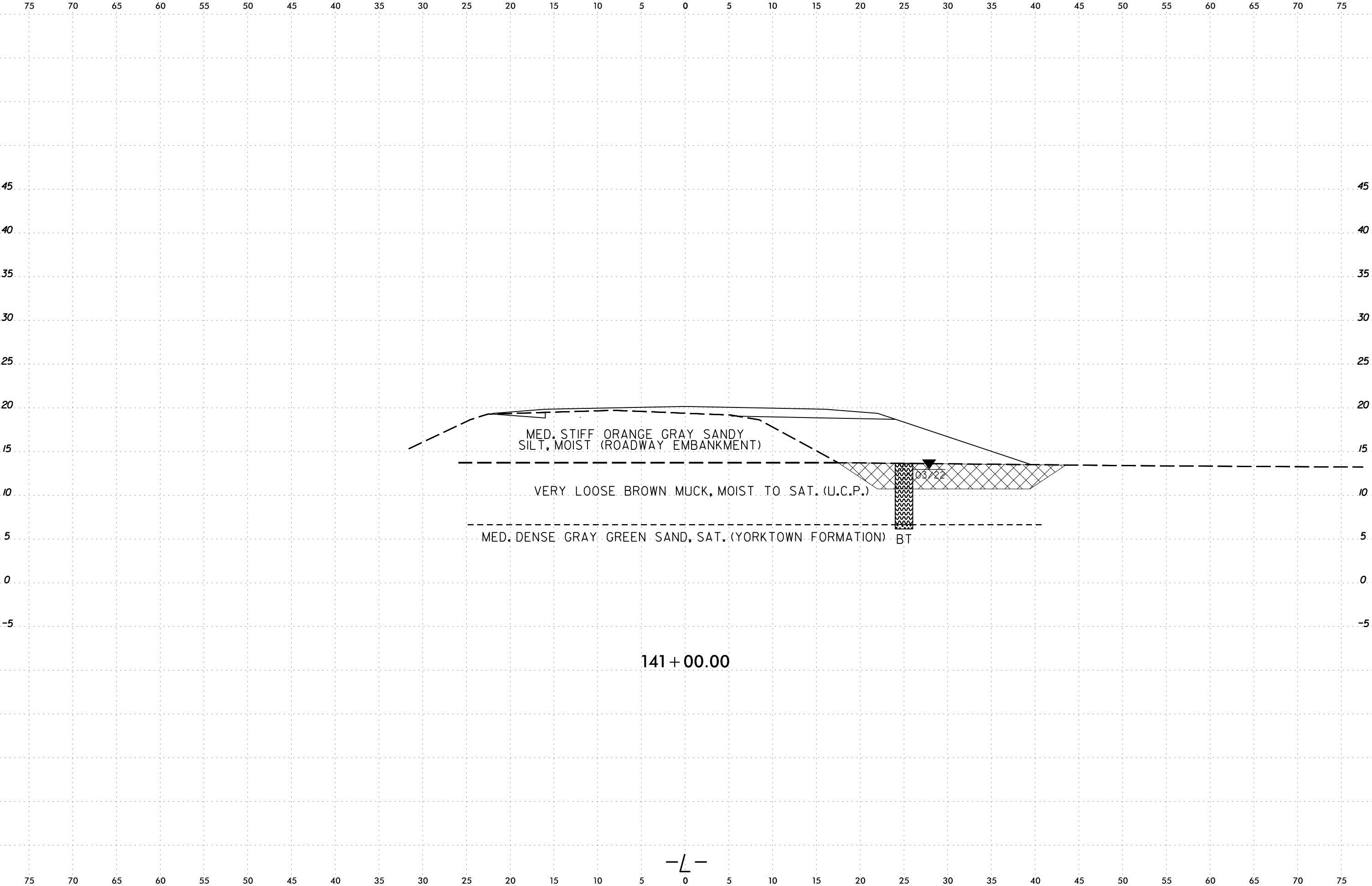
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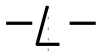
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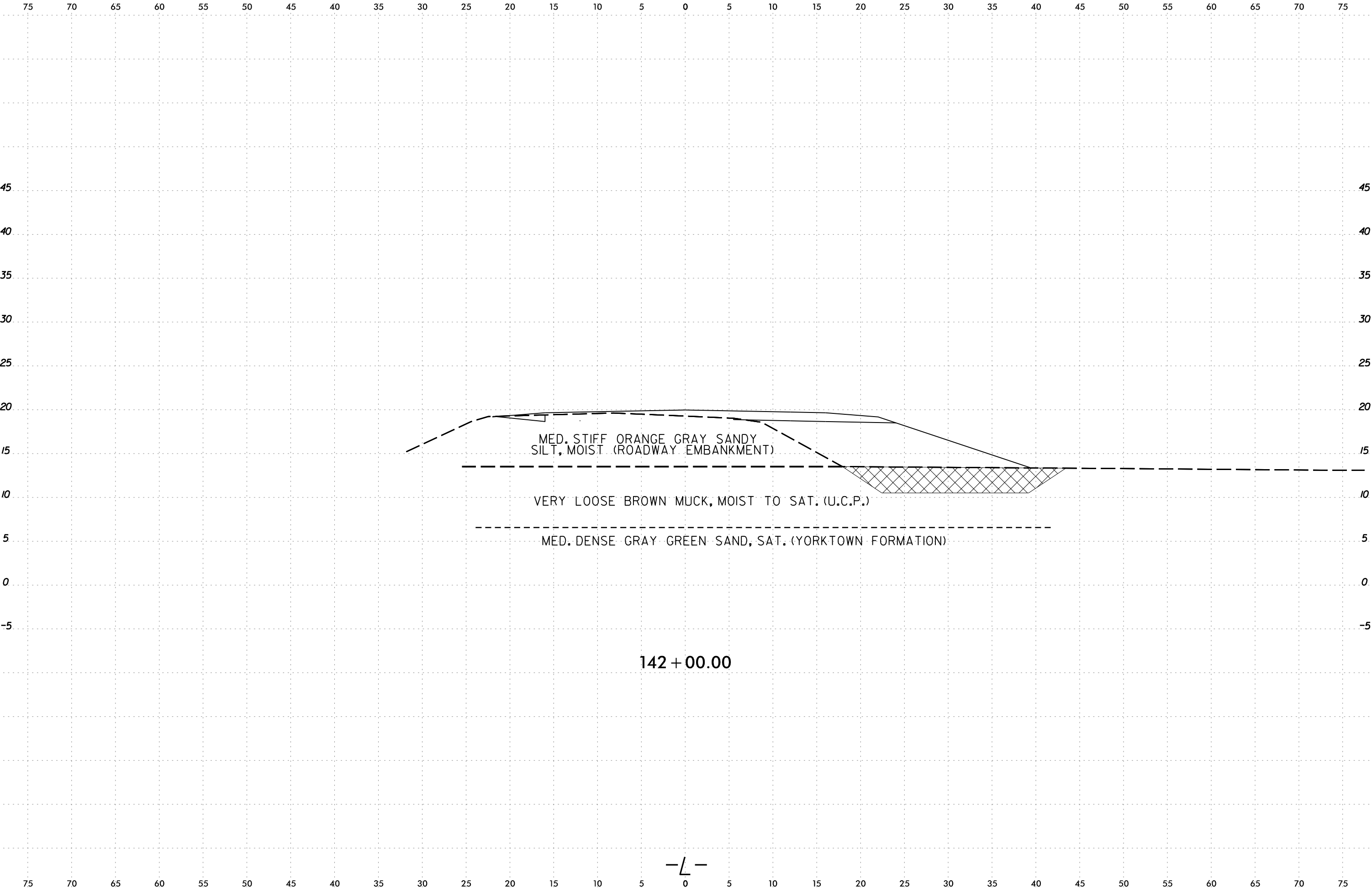


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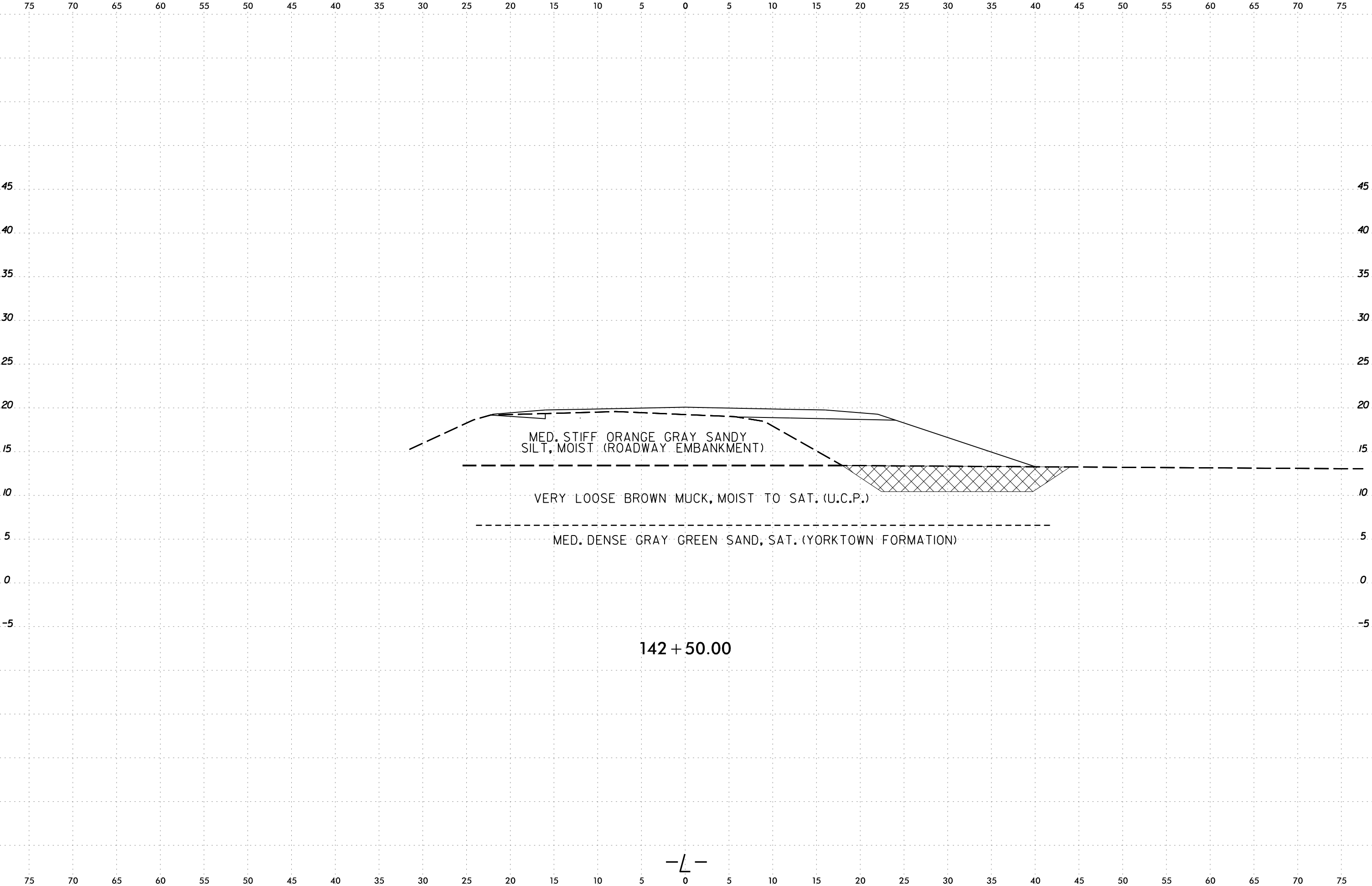


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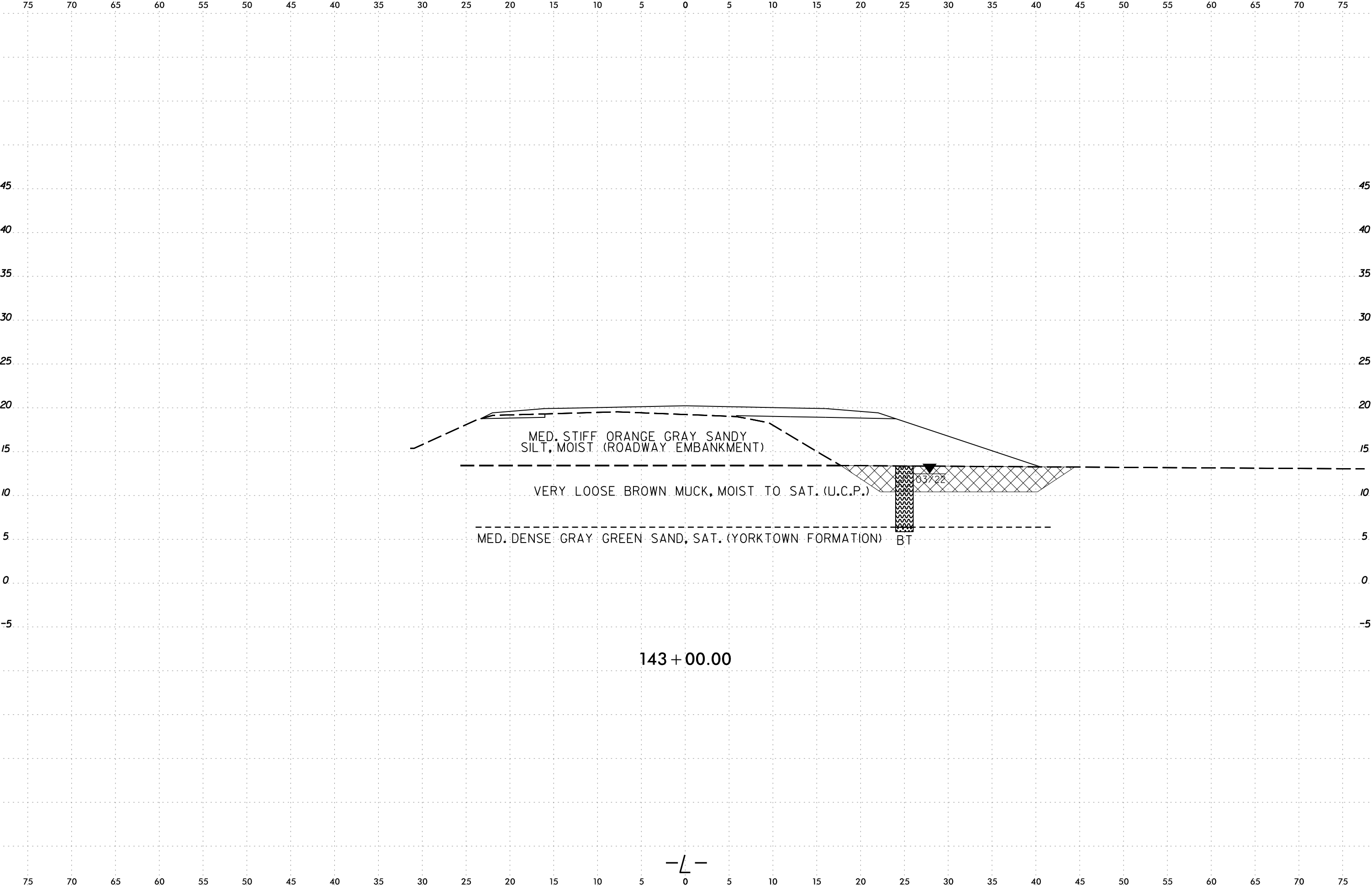


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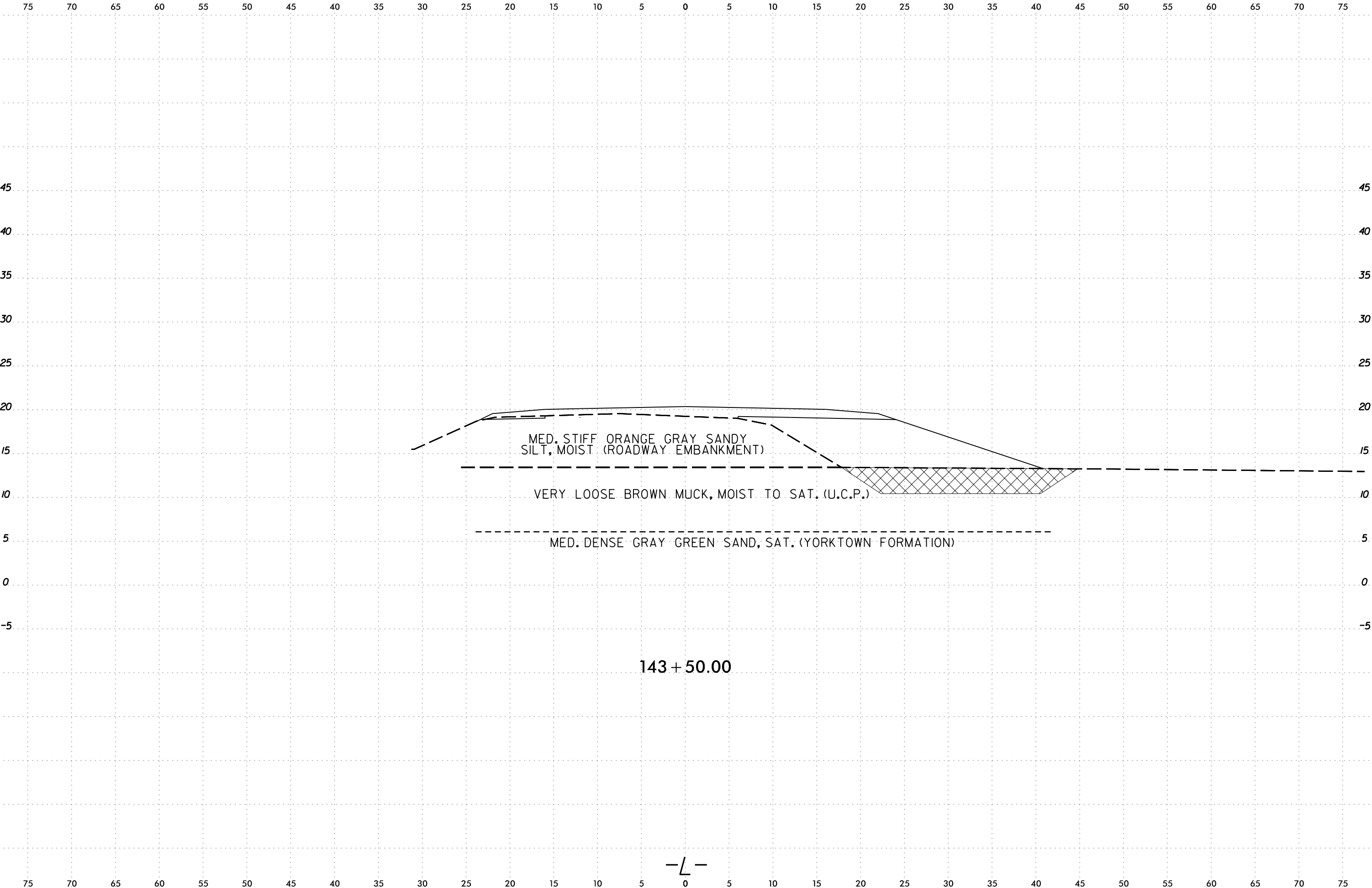
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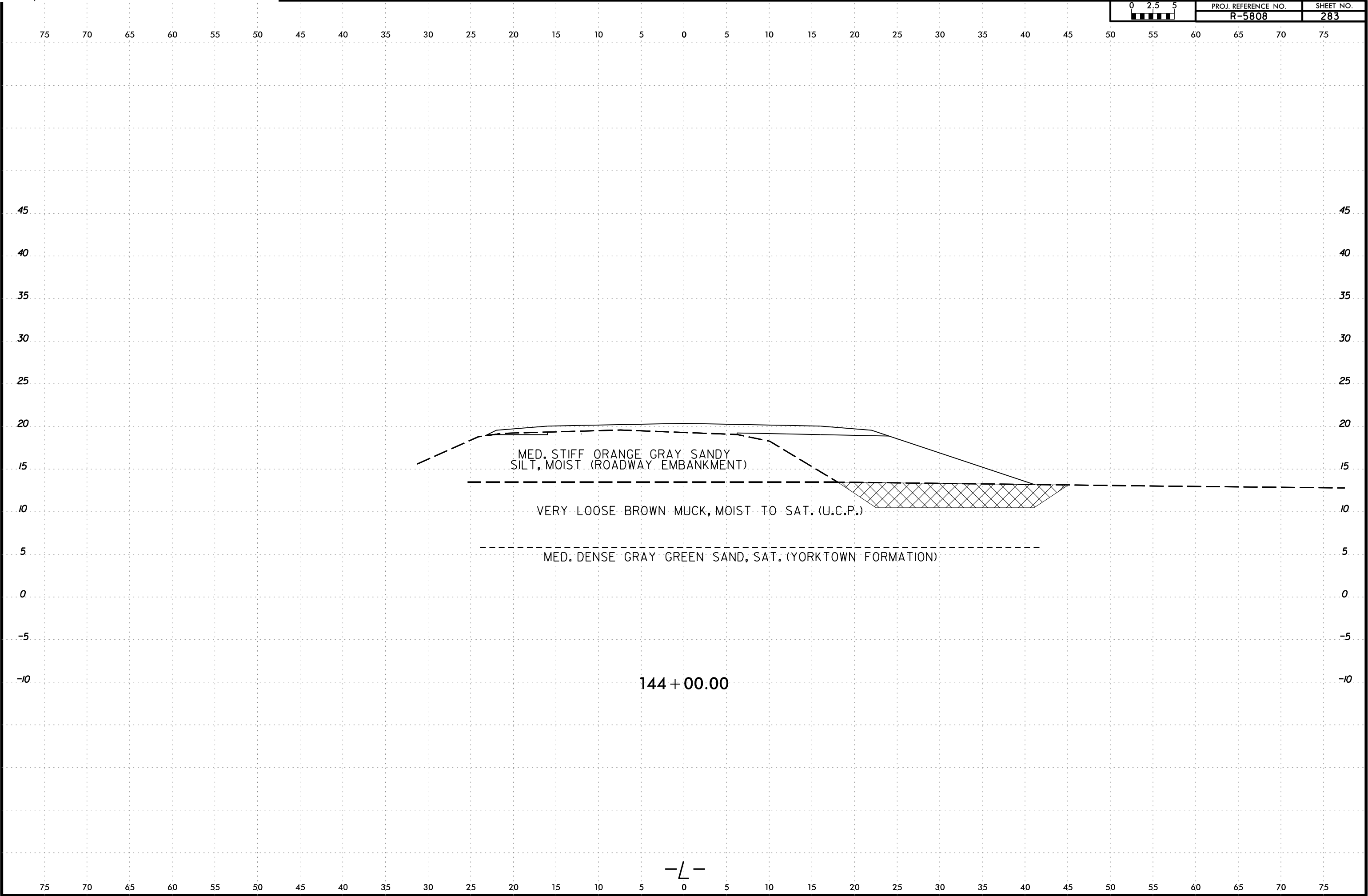


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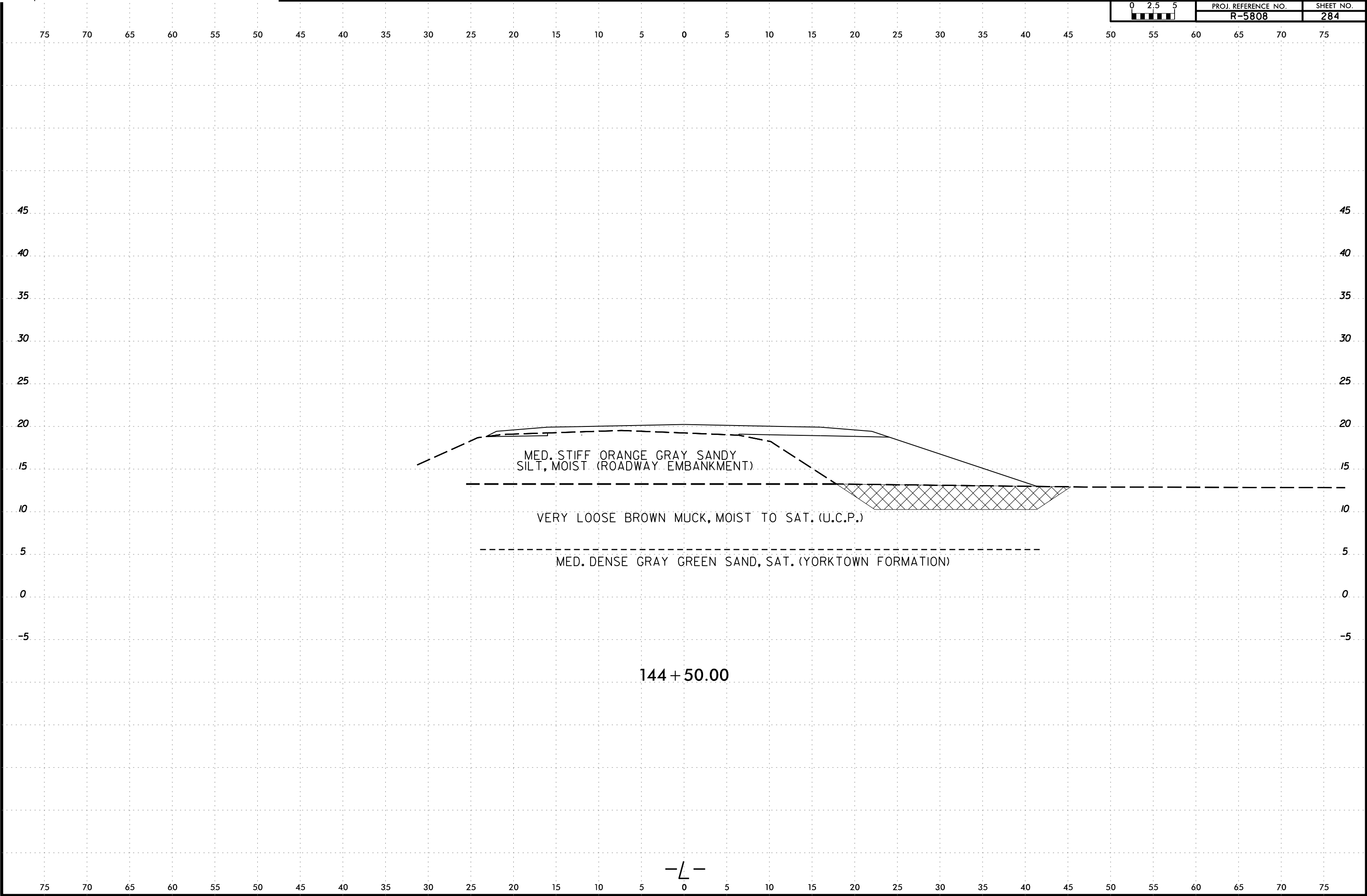
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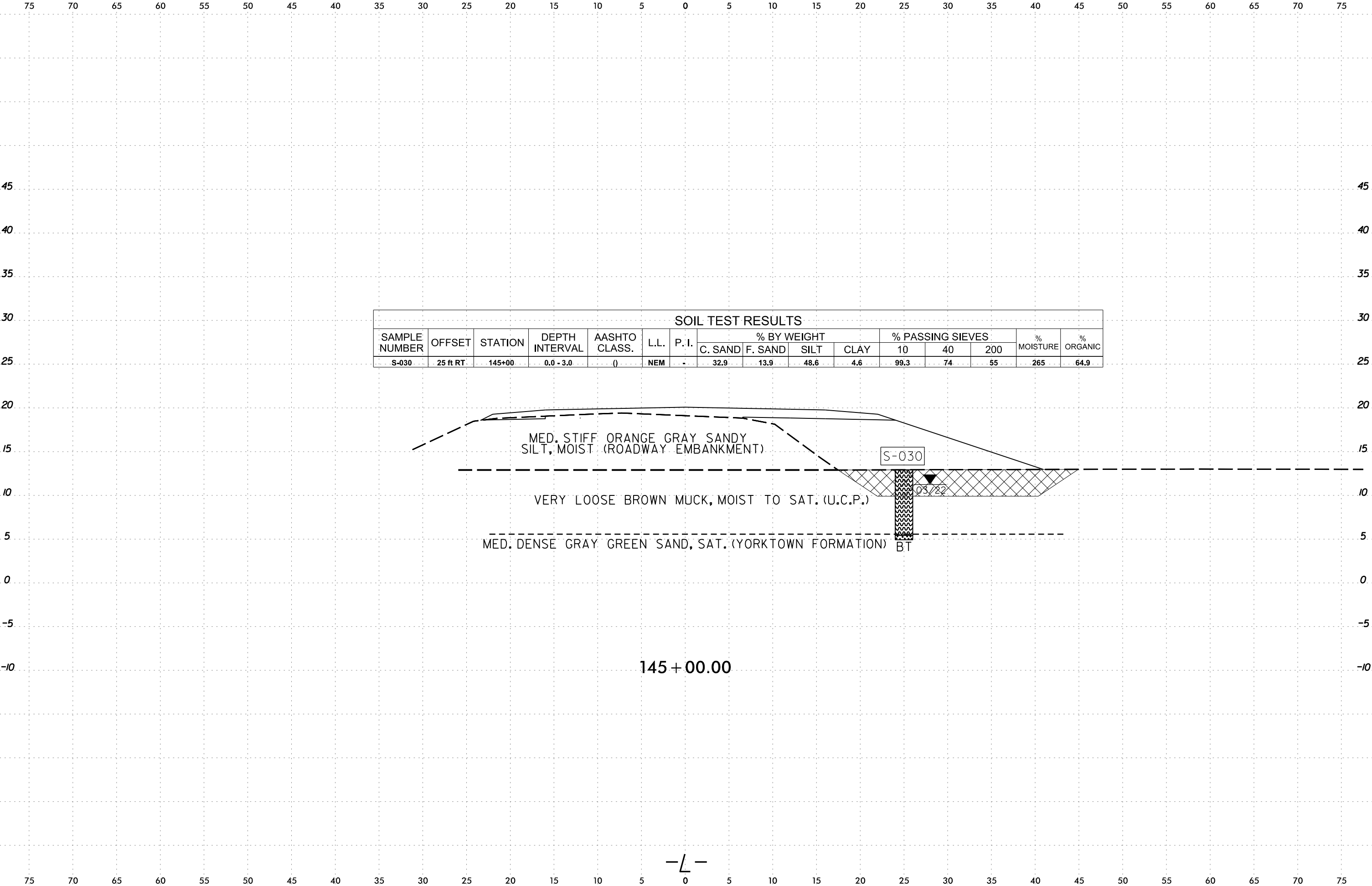
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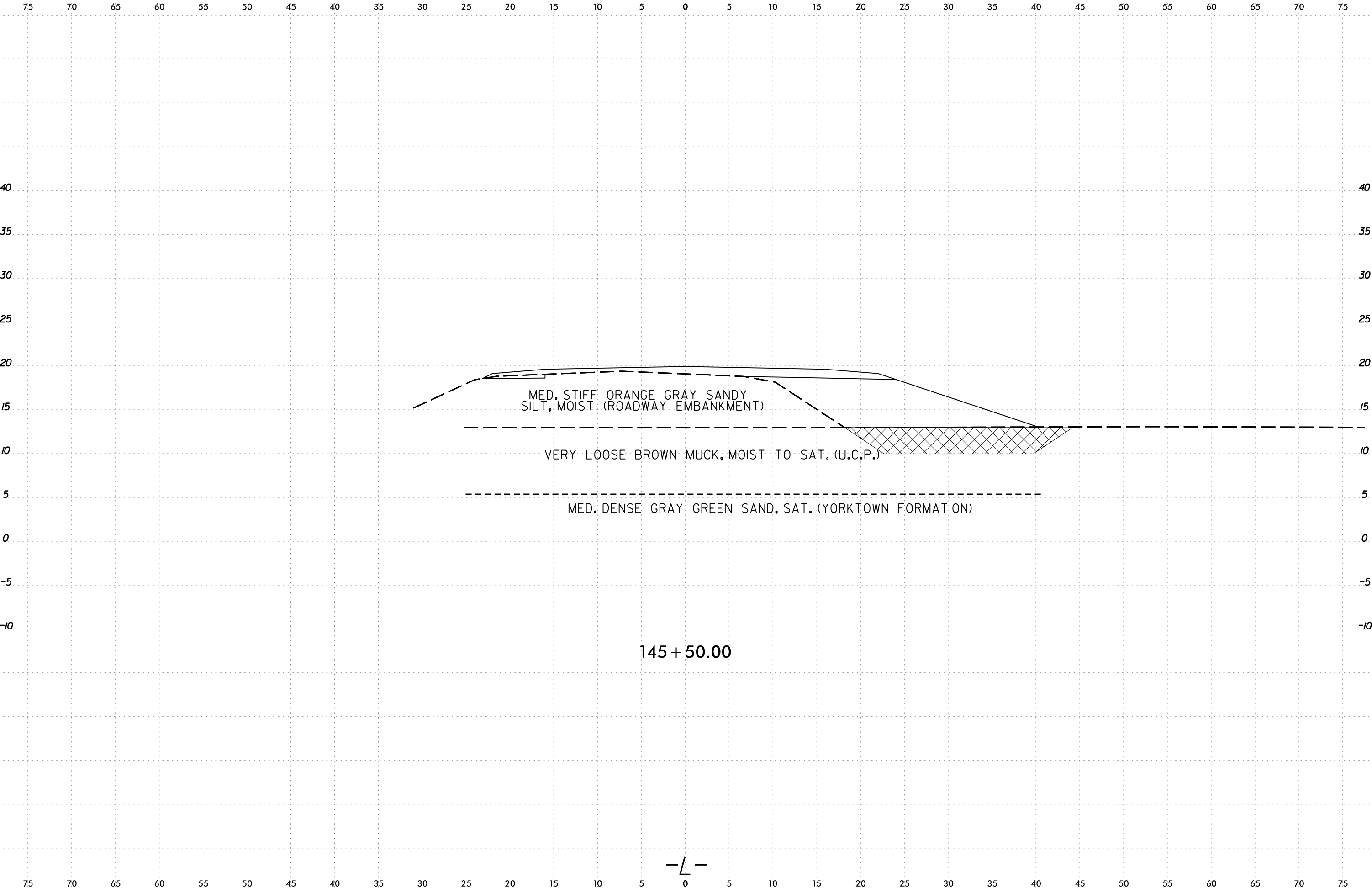


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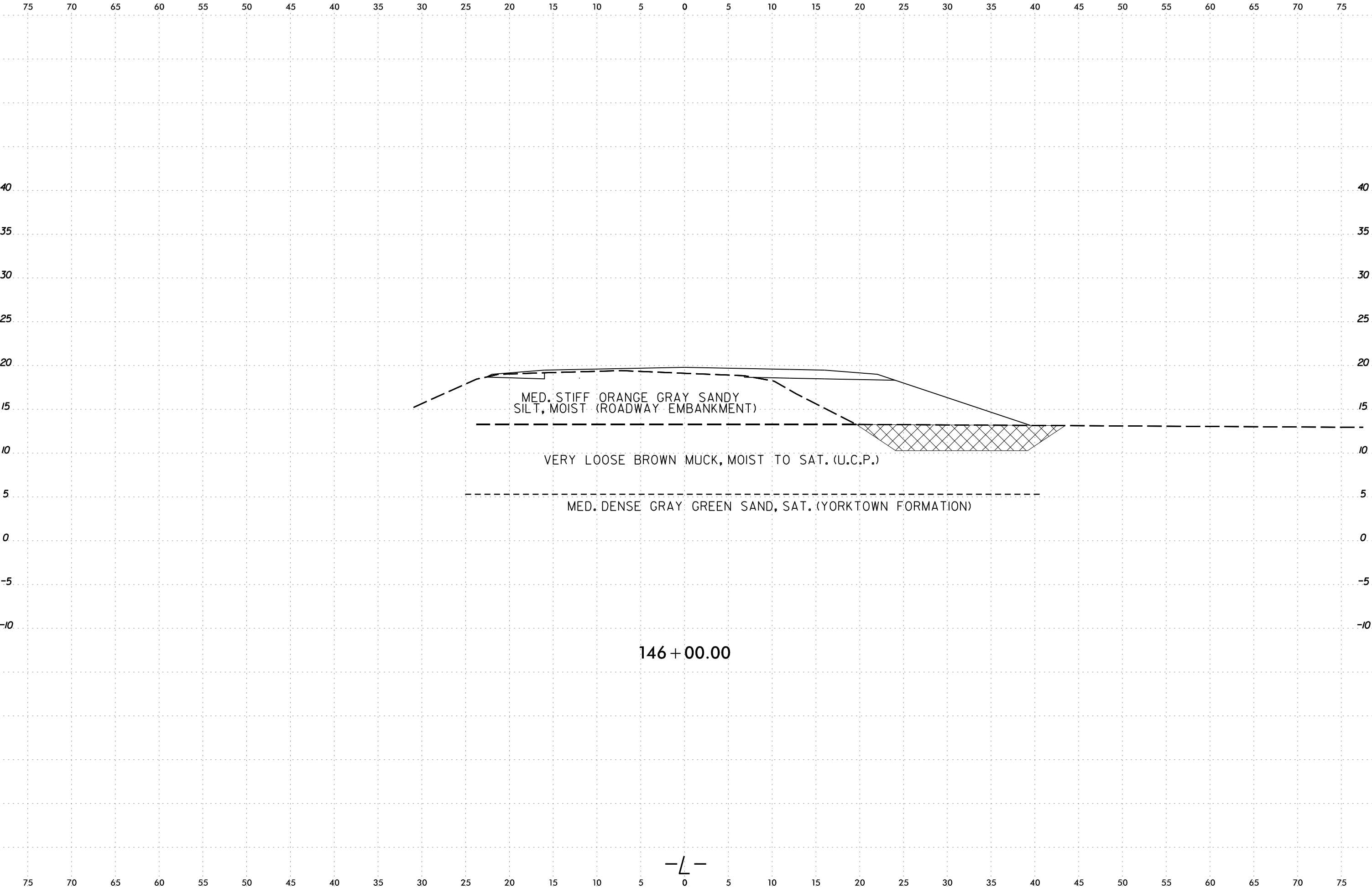
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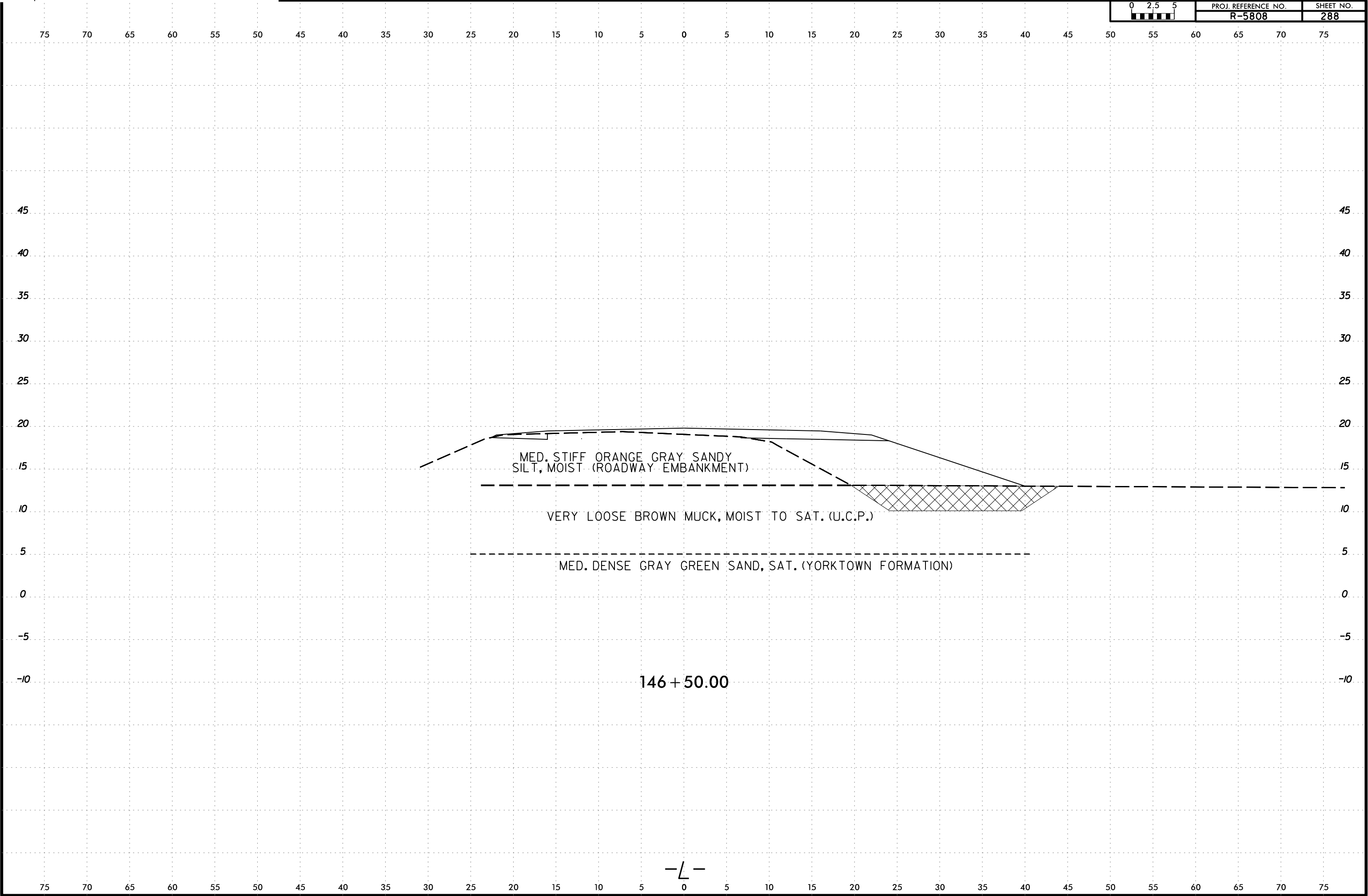
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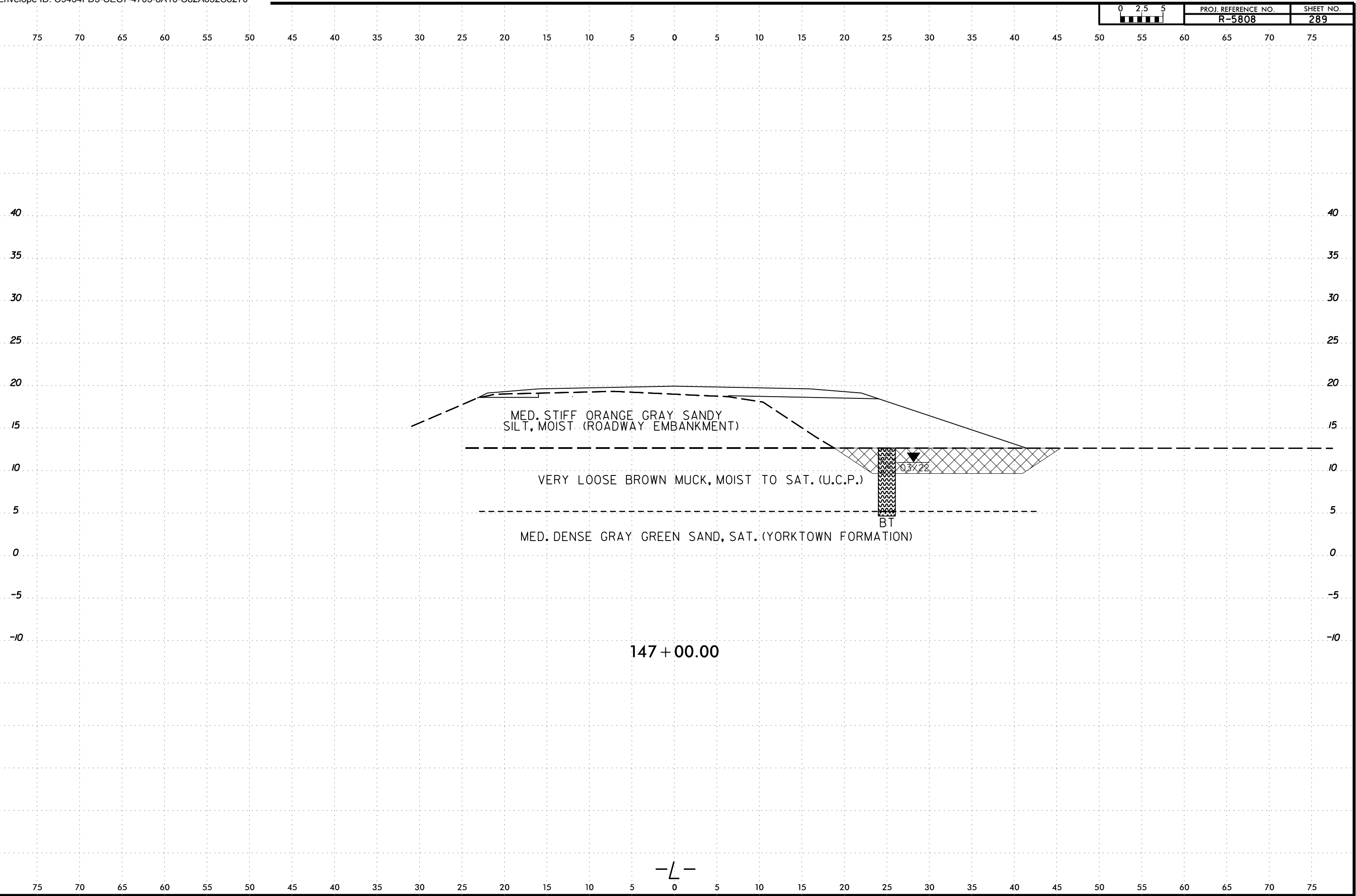


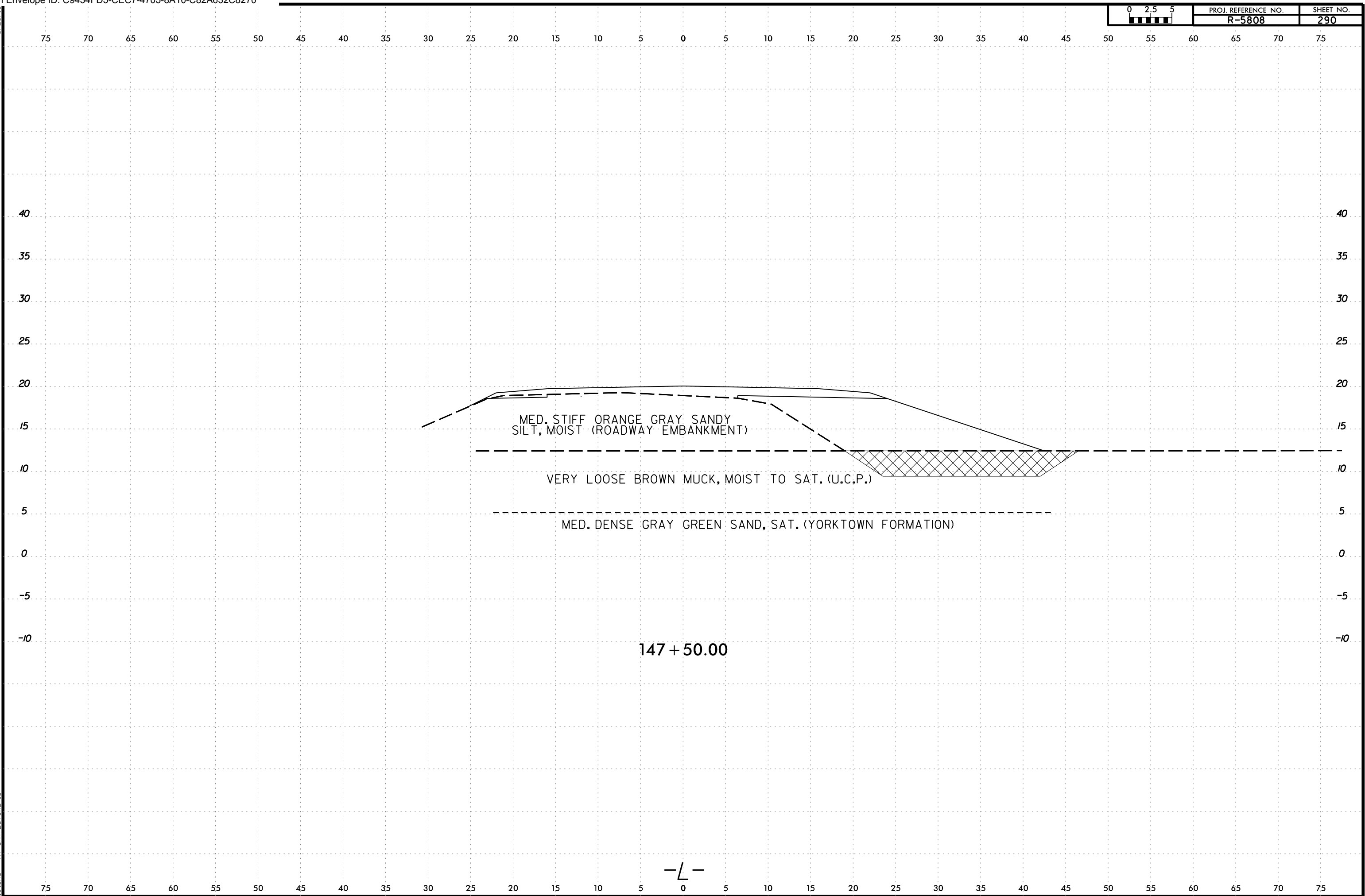
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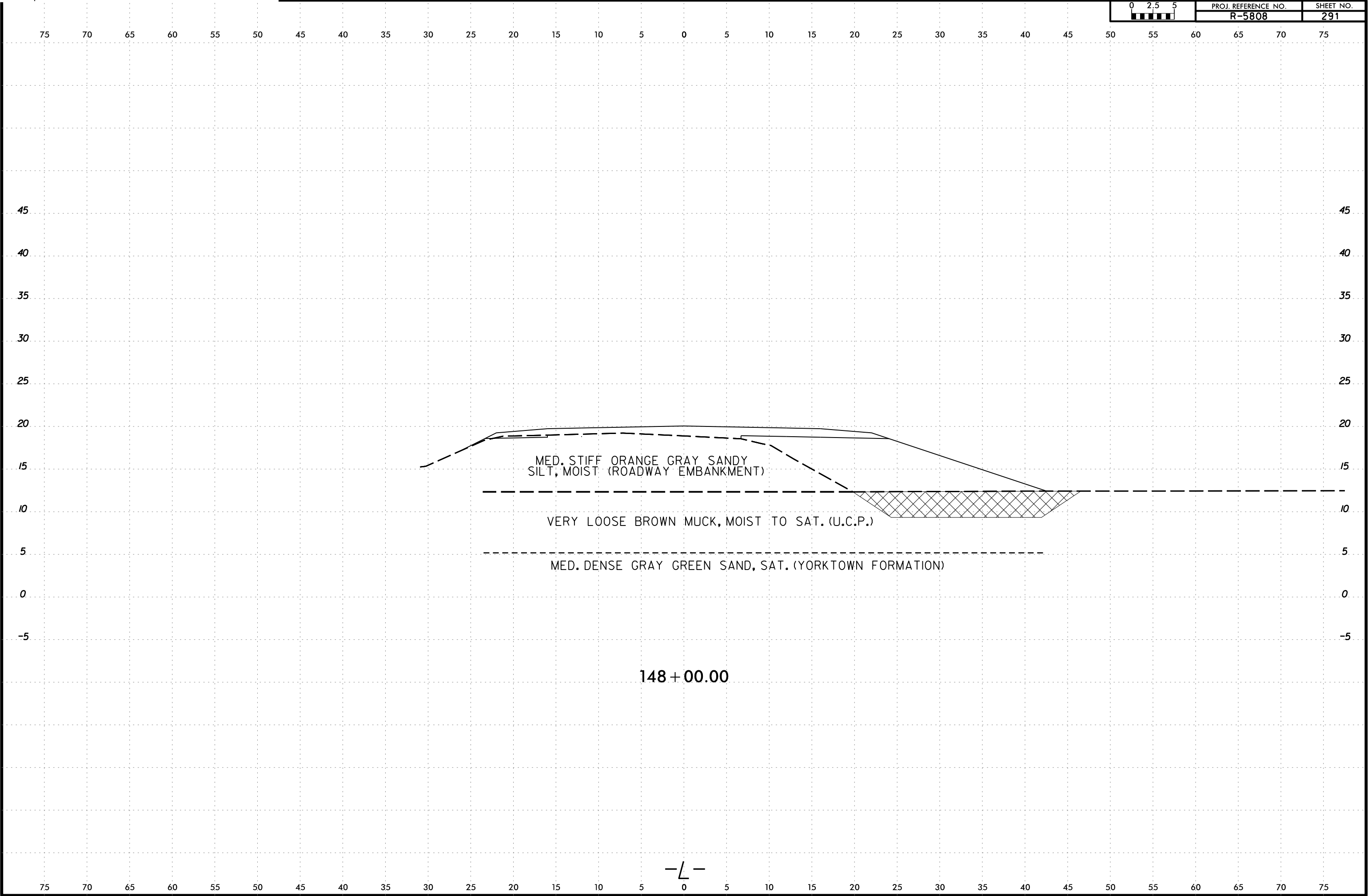


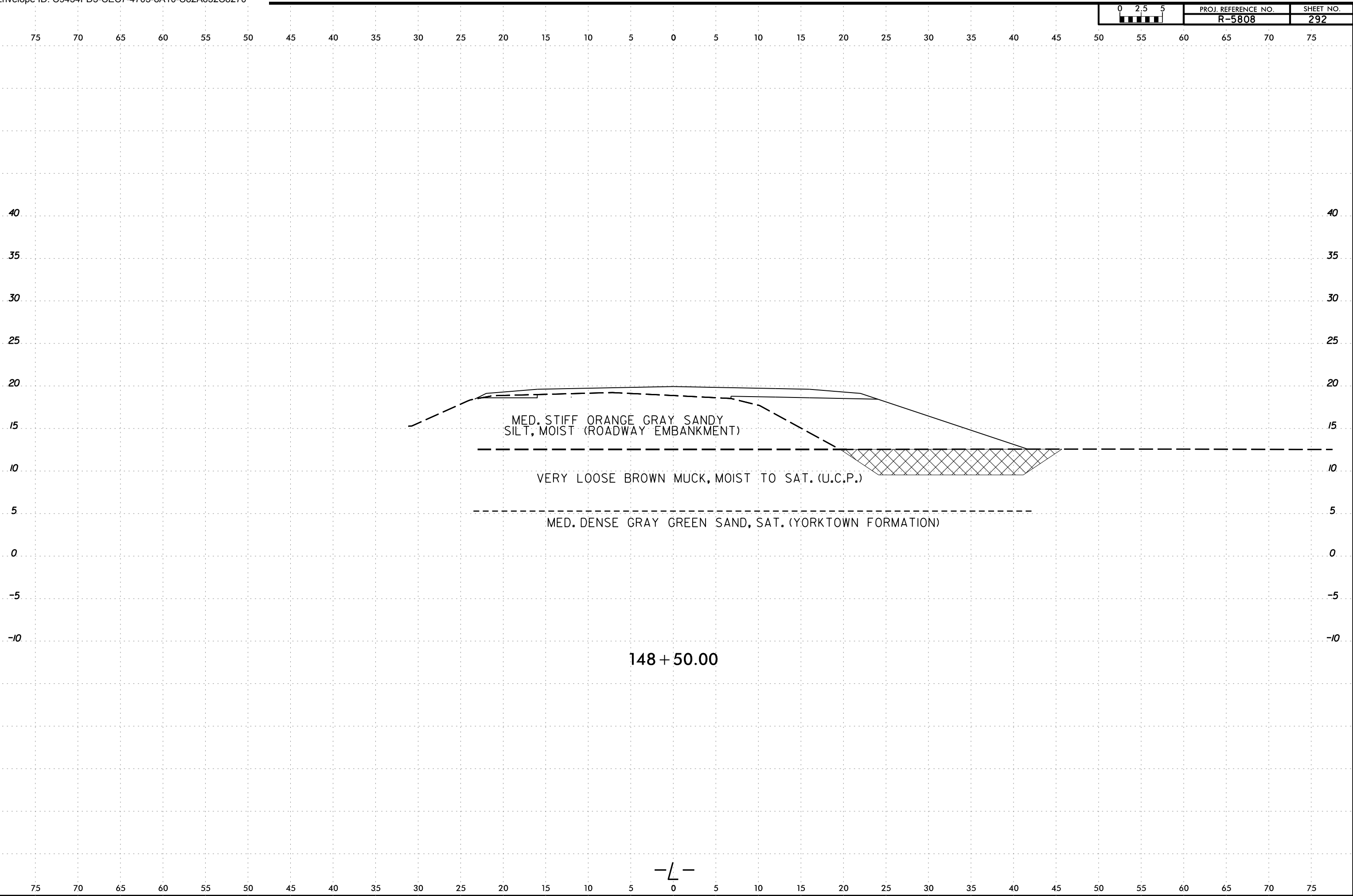


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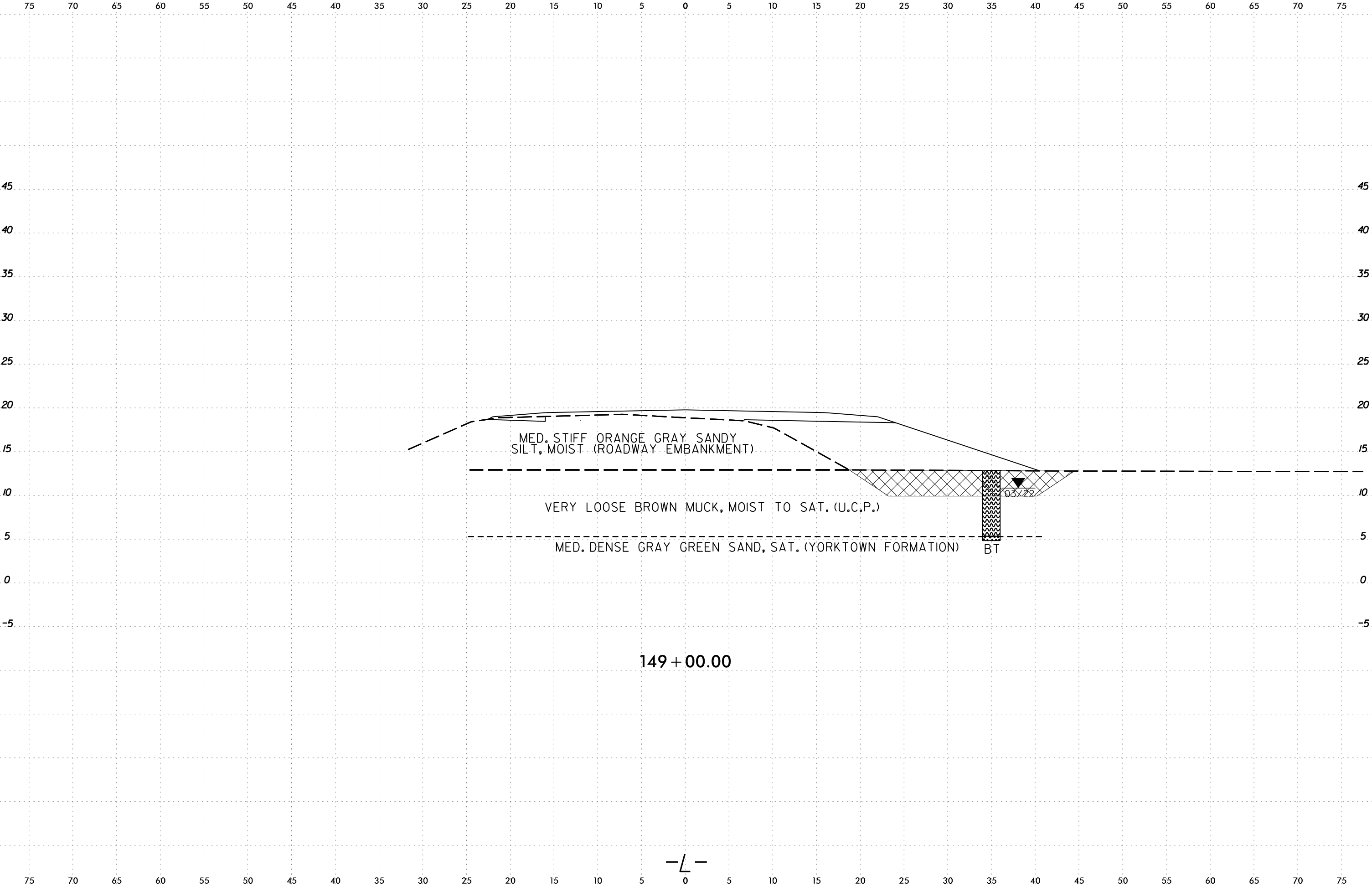




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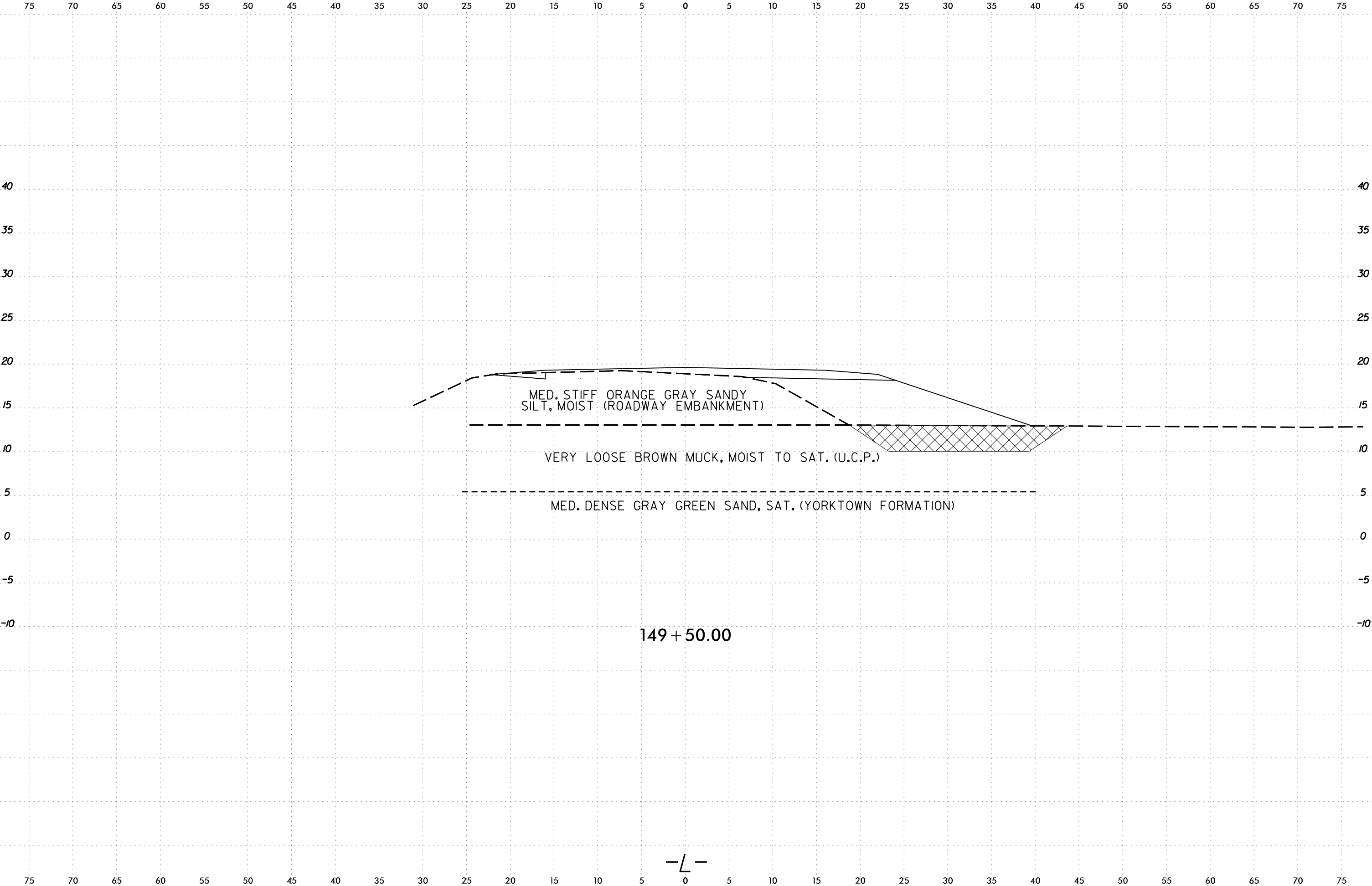
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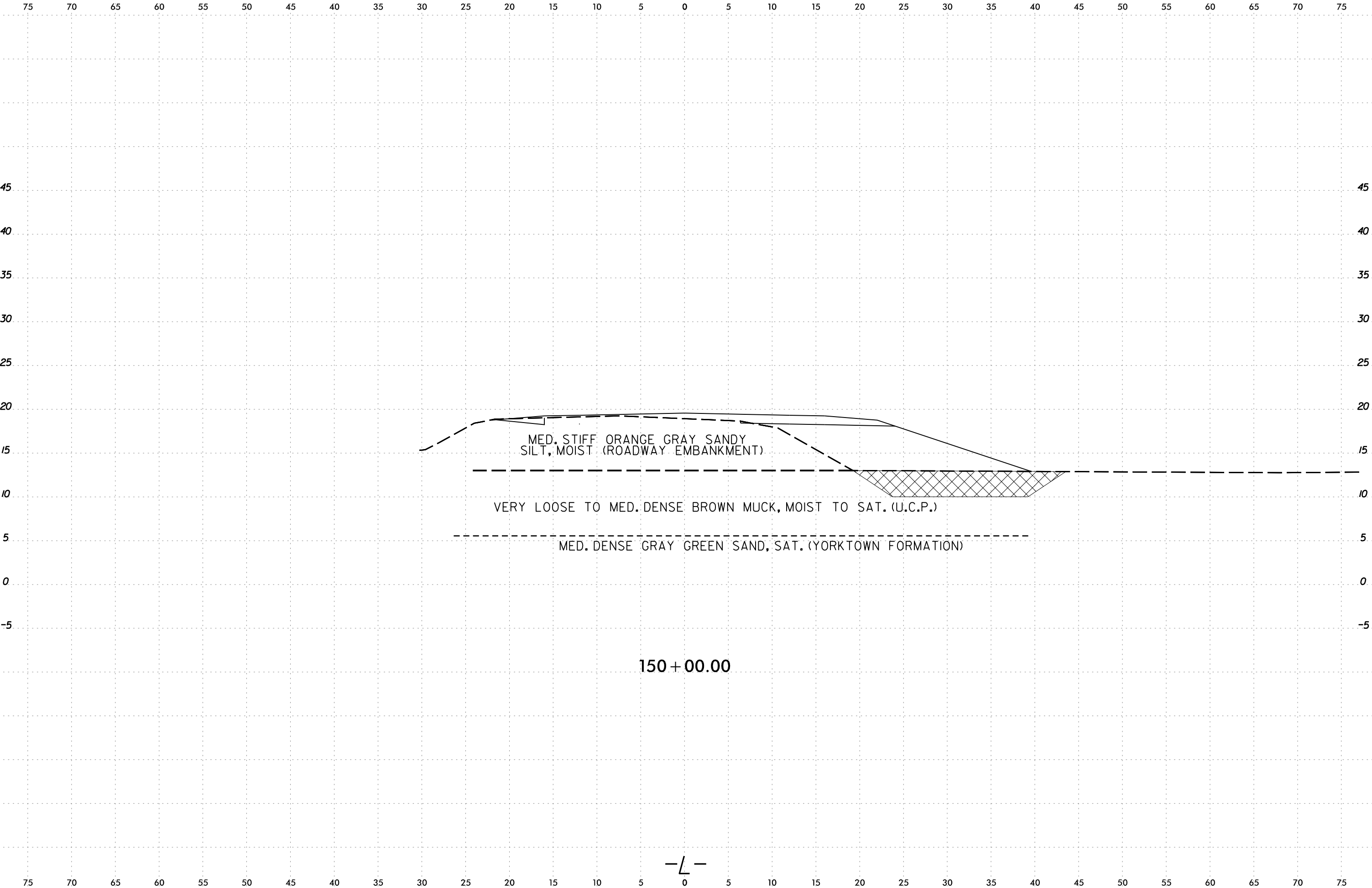
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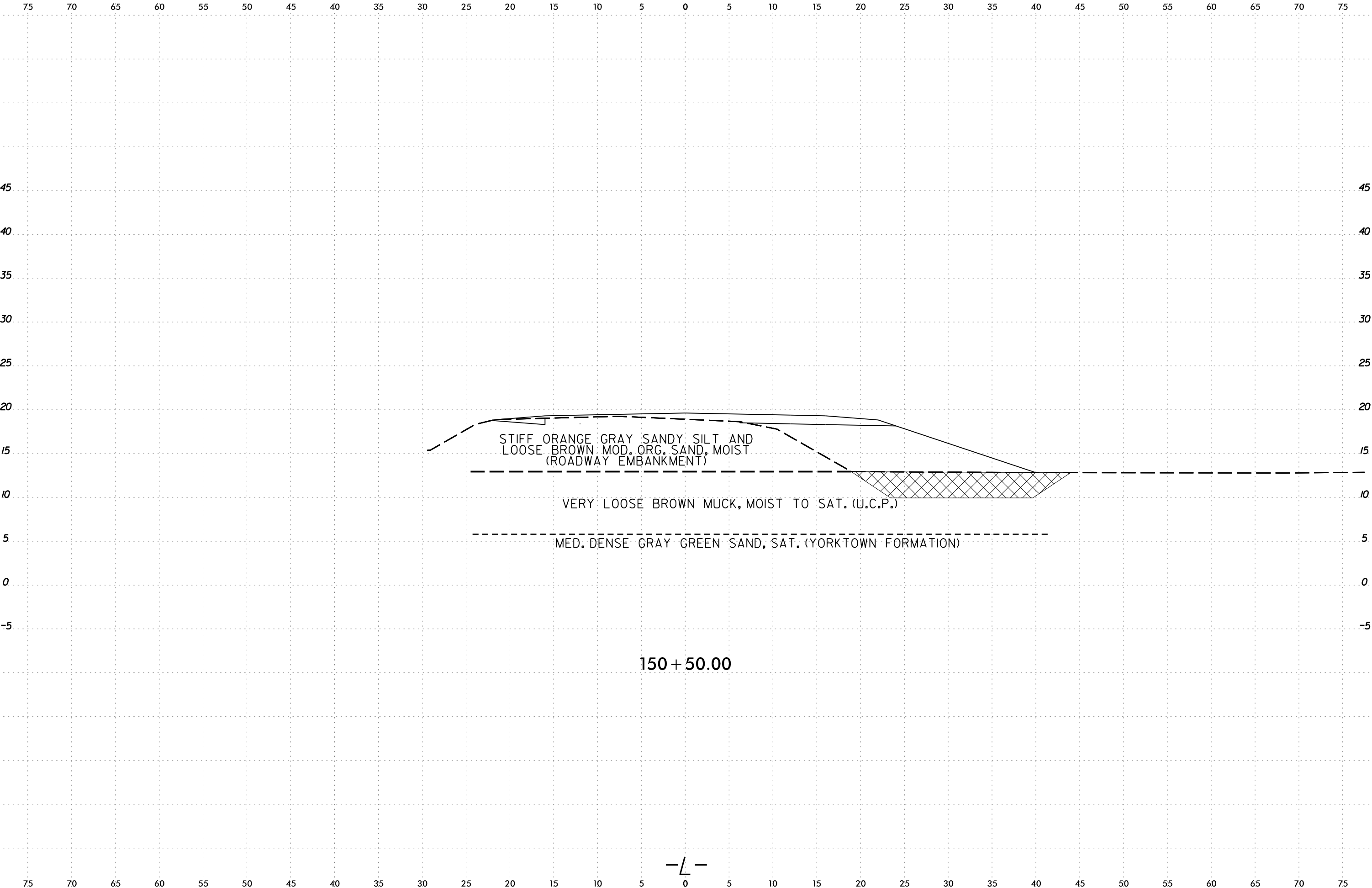
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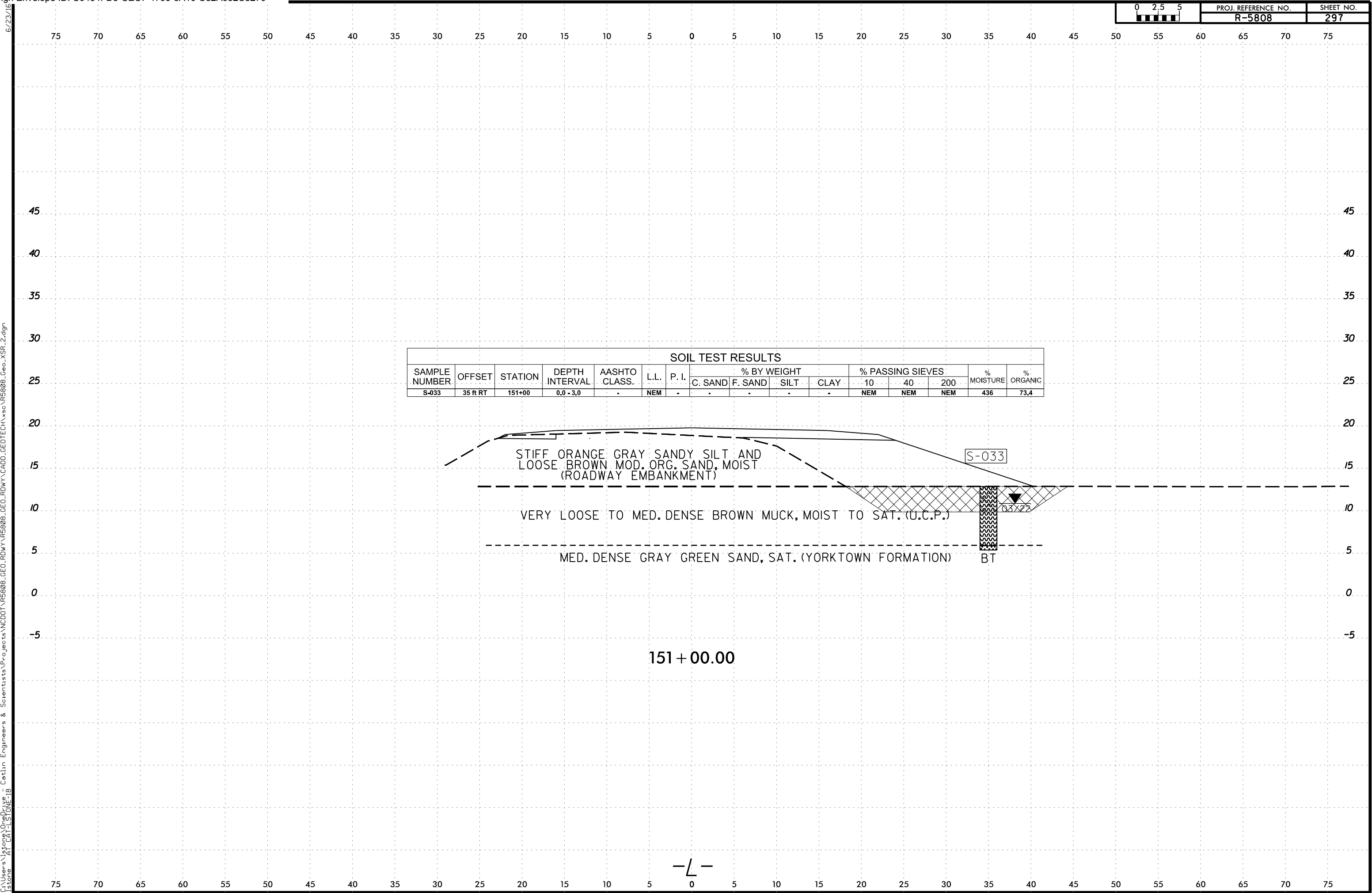


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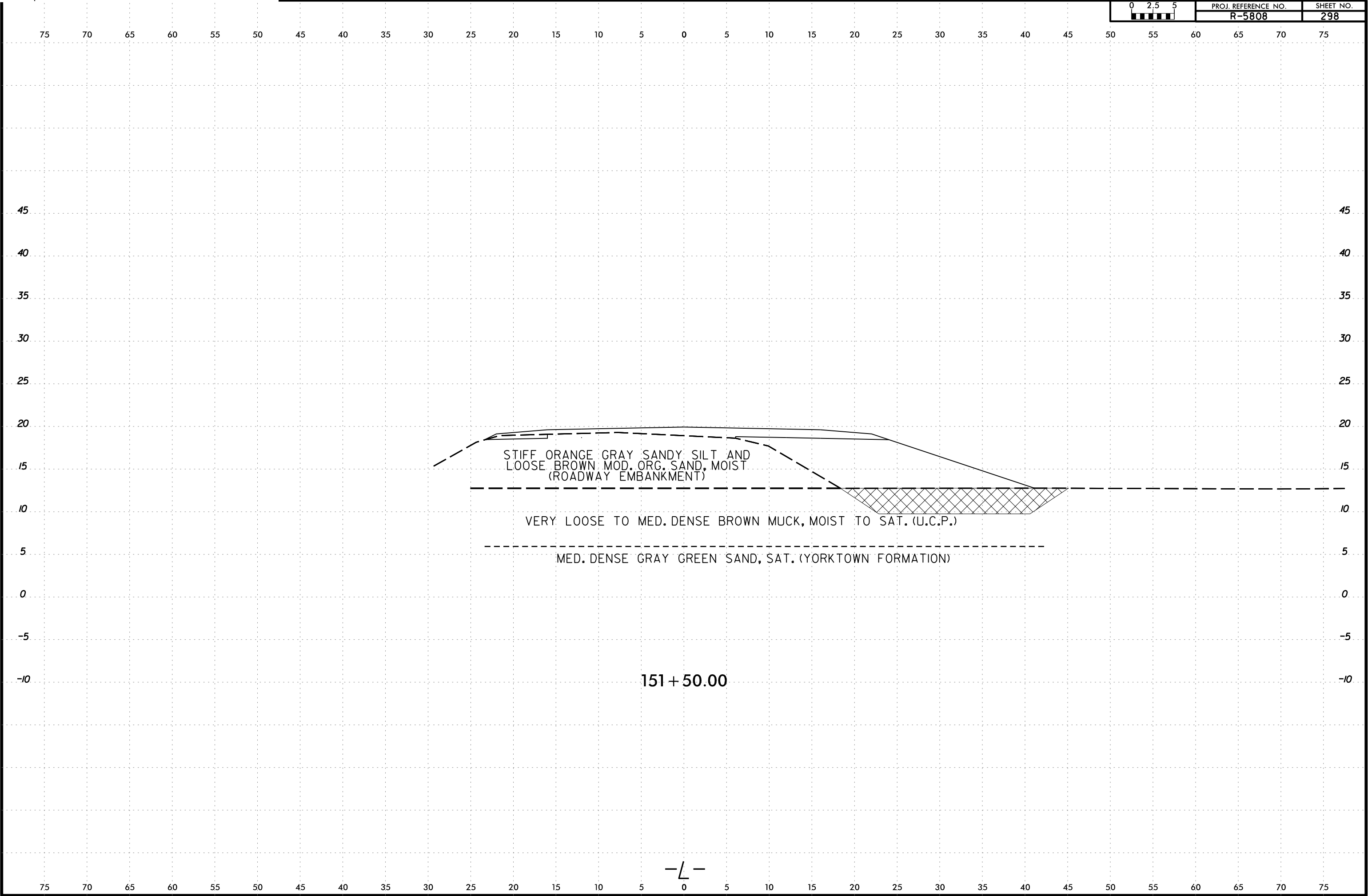




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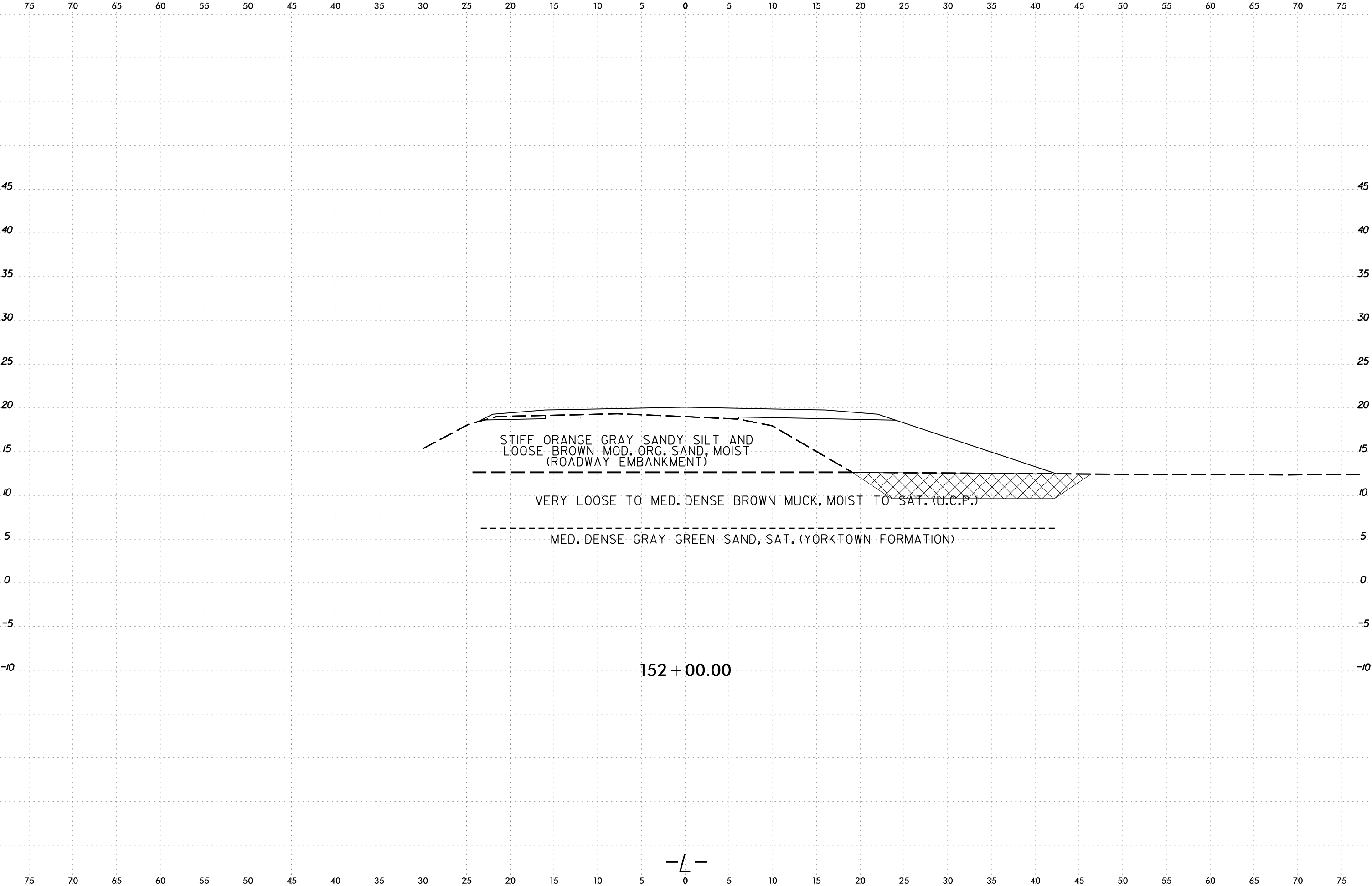
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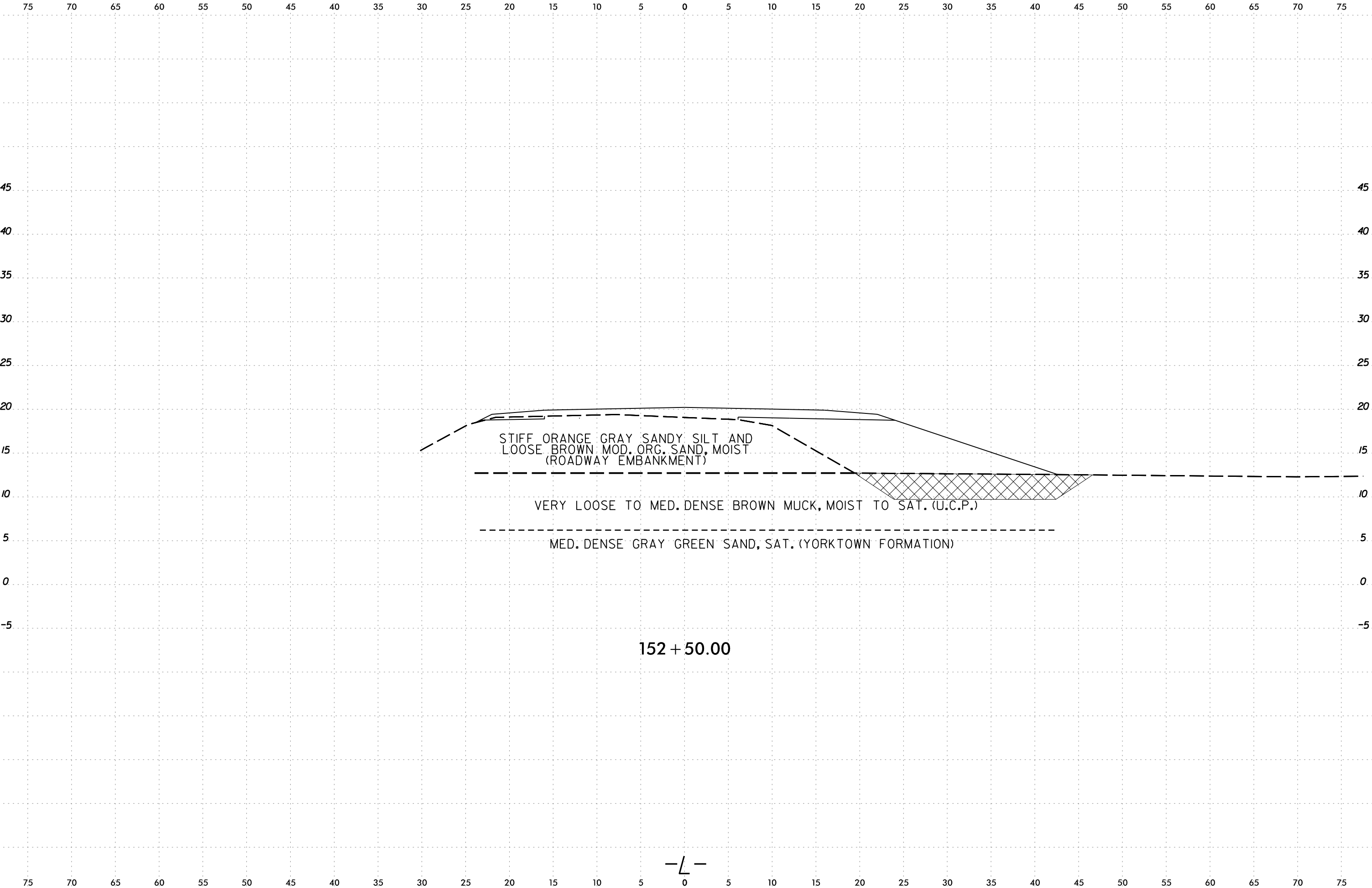
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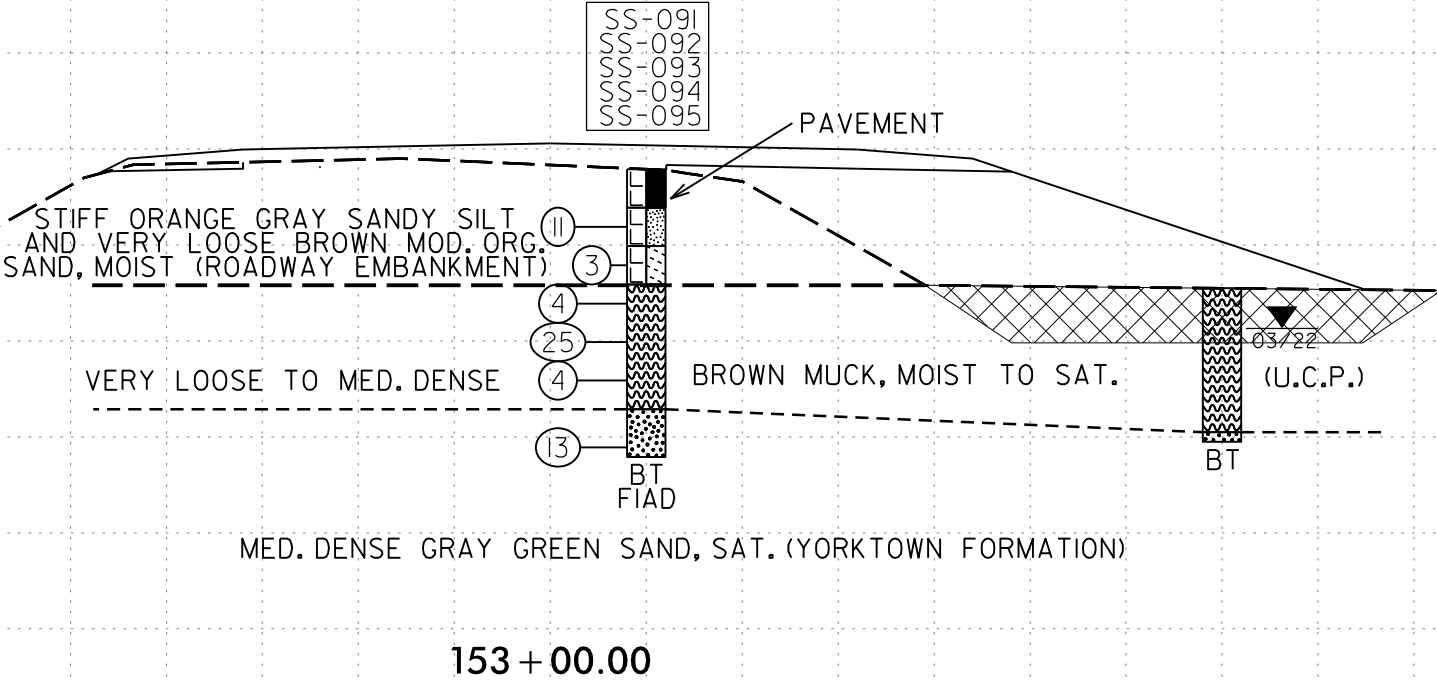


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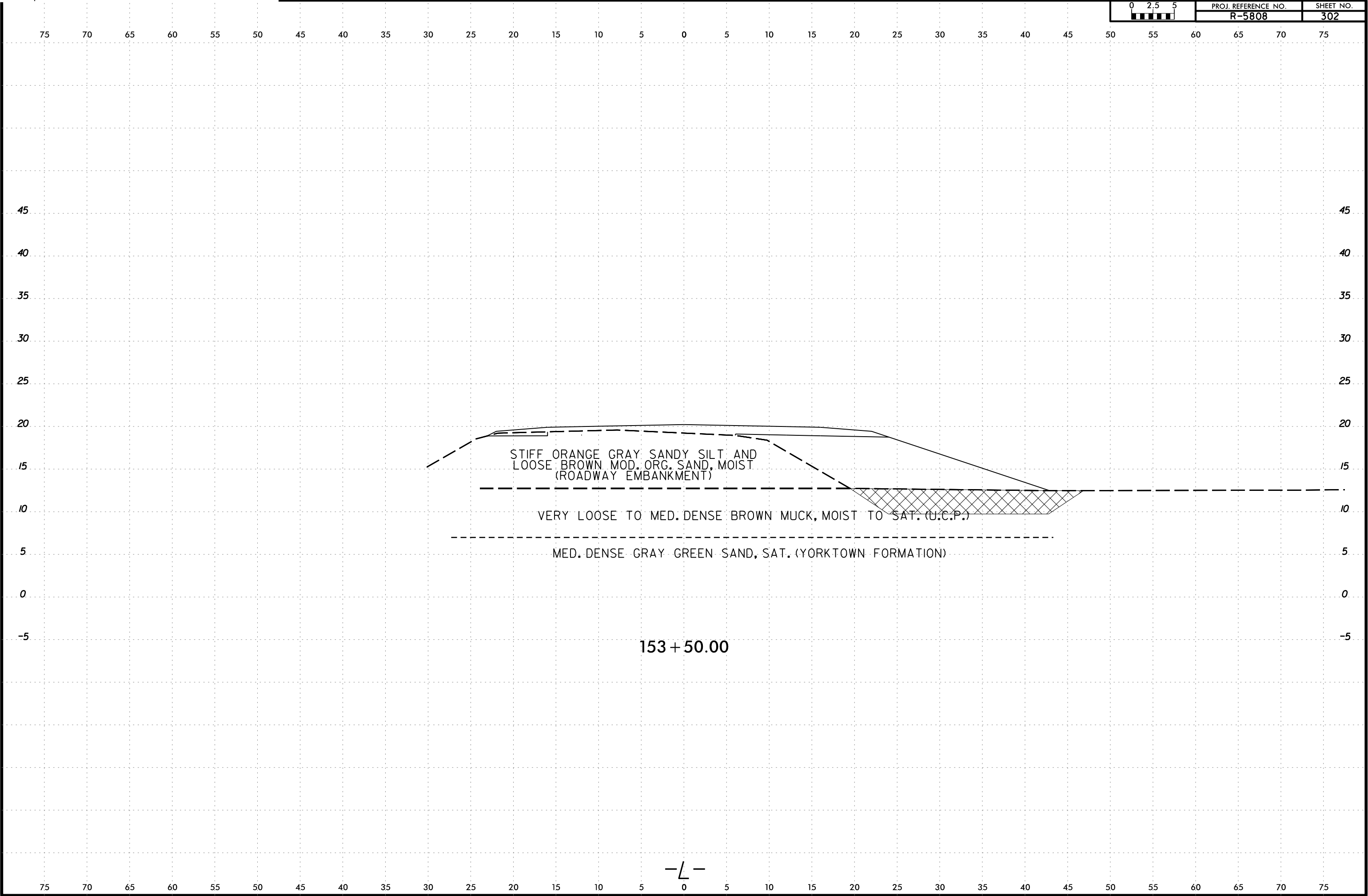
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SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-091	35 ft RT	153+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.4	48.1	19.0	8.4	97.2	90	31	-	7.8
SS-092	35 ft RT	153+00	6.0 - 8.0	()	NEM	-	22.5	20.3	52.8	4.4	91.0	84	60	-	44.0
SS-093	35 ft RT	153+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	51.8
SS-094	35 ft RT	153+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	73.9
SS-095	35 ft RT	153+00	13.5 - 15.0	A-2-4(0)	NP	NP	30.5	49.6	10.9	9.0	99	88	22	-	-



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AT CAT-1 STONE-18

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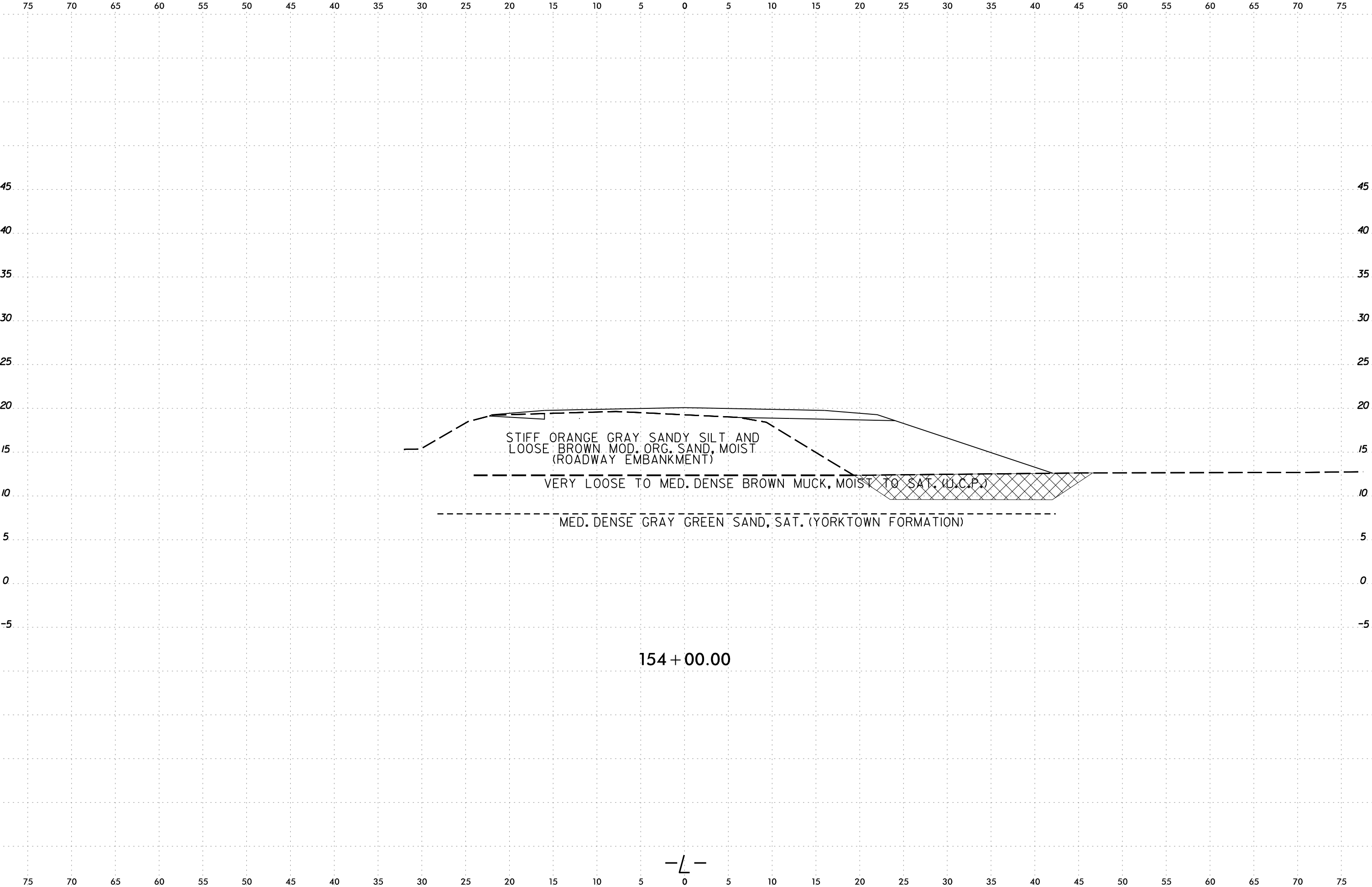


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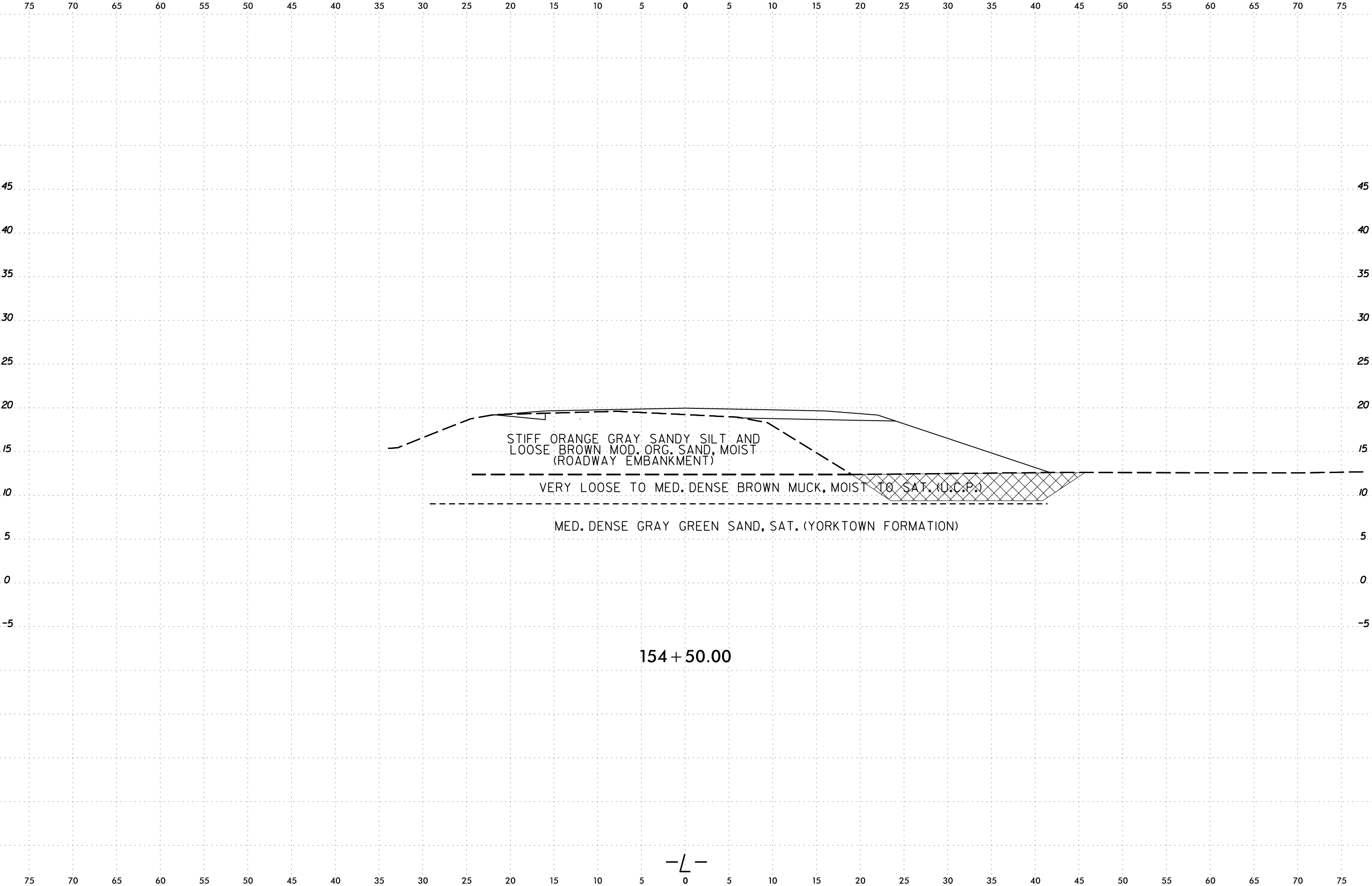
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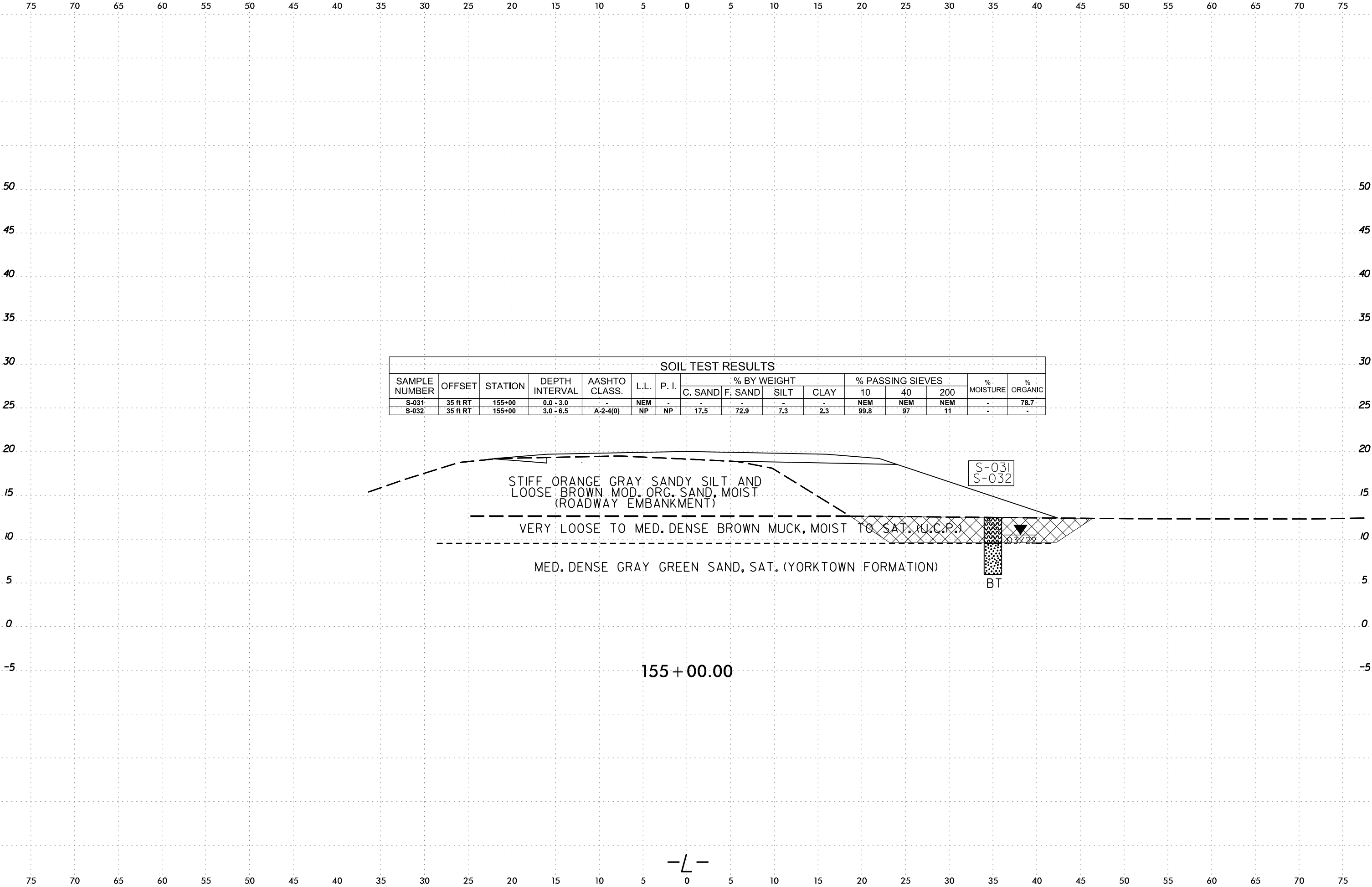
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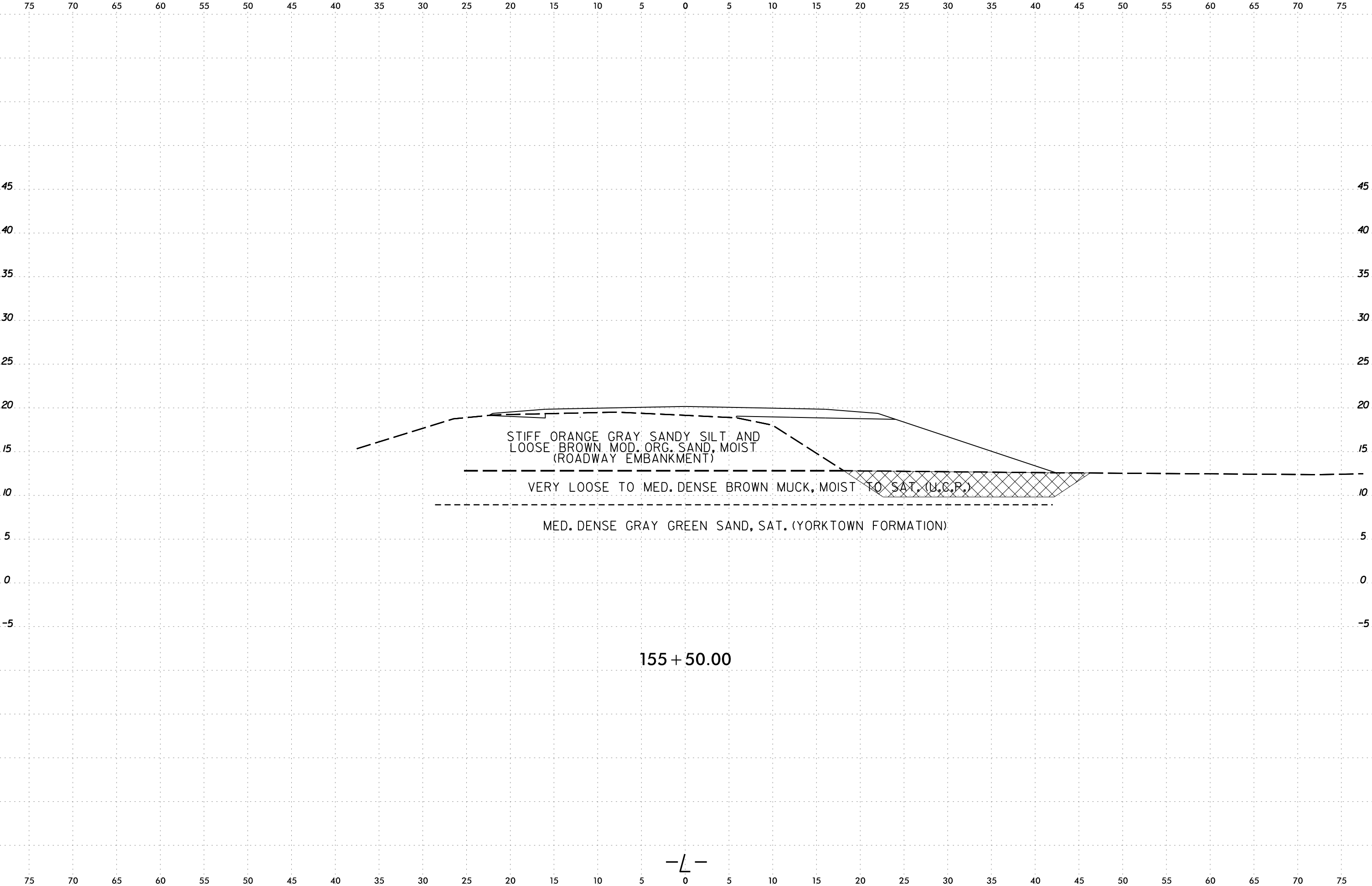
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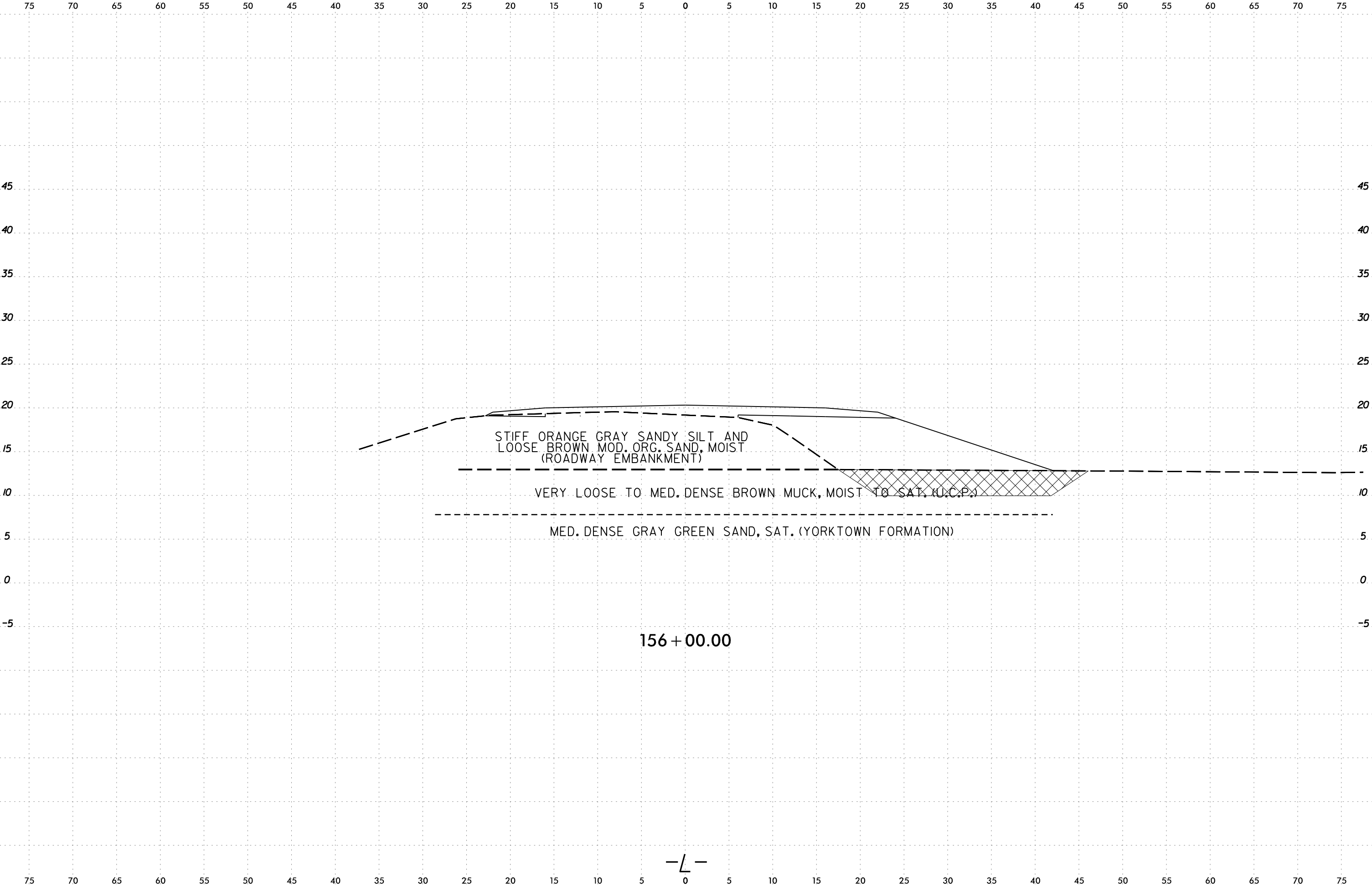
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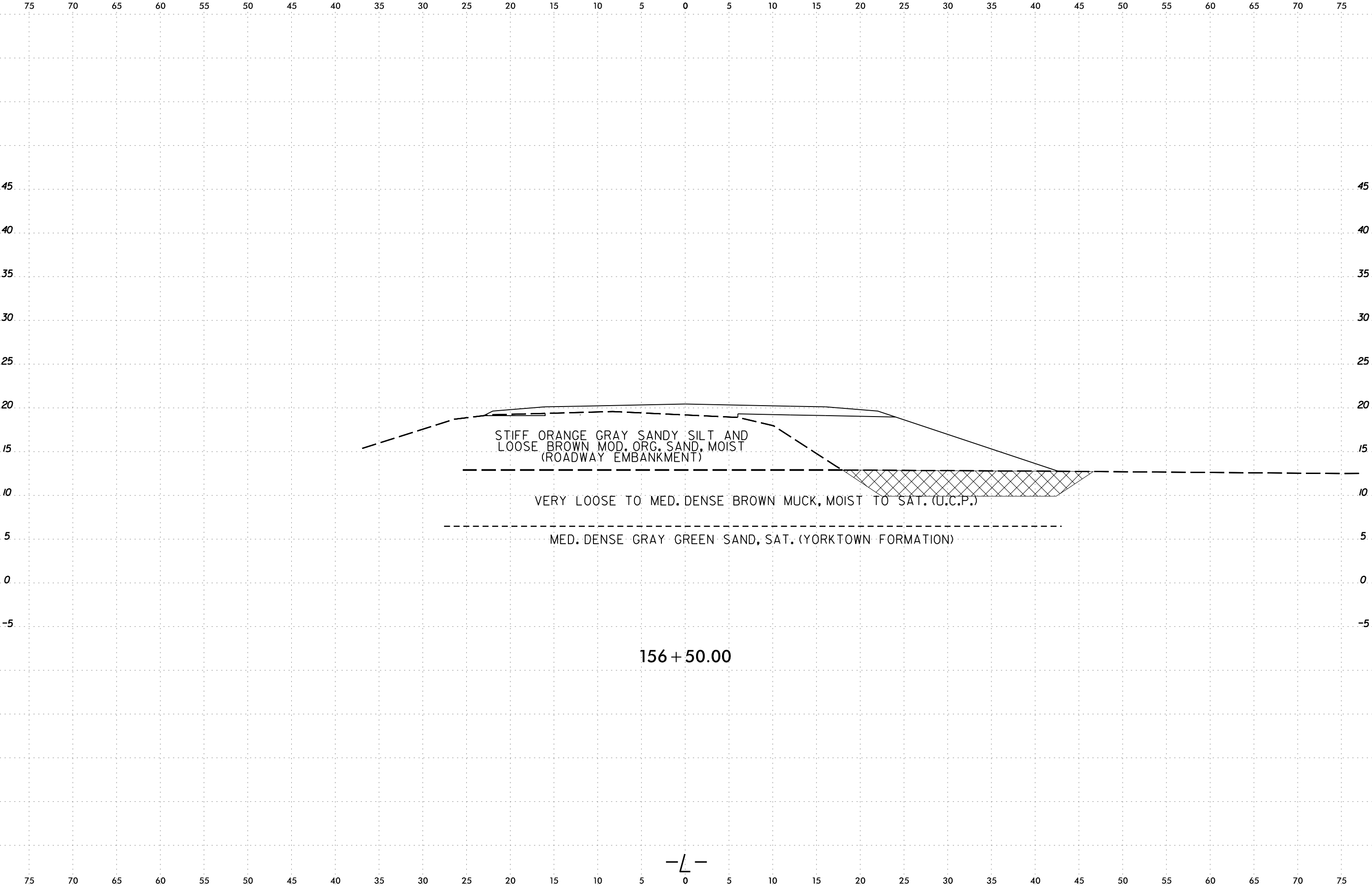


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AT CAT-1 STONE-18

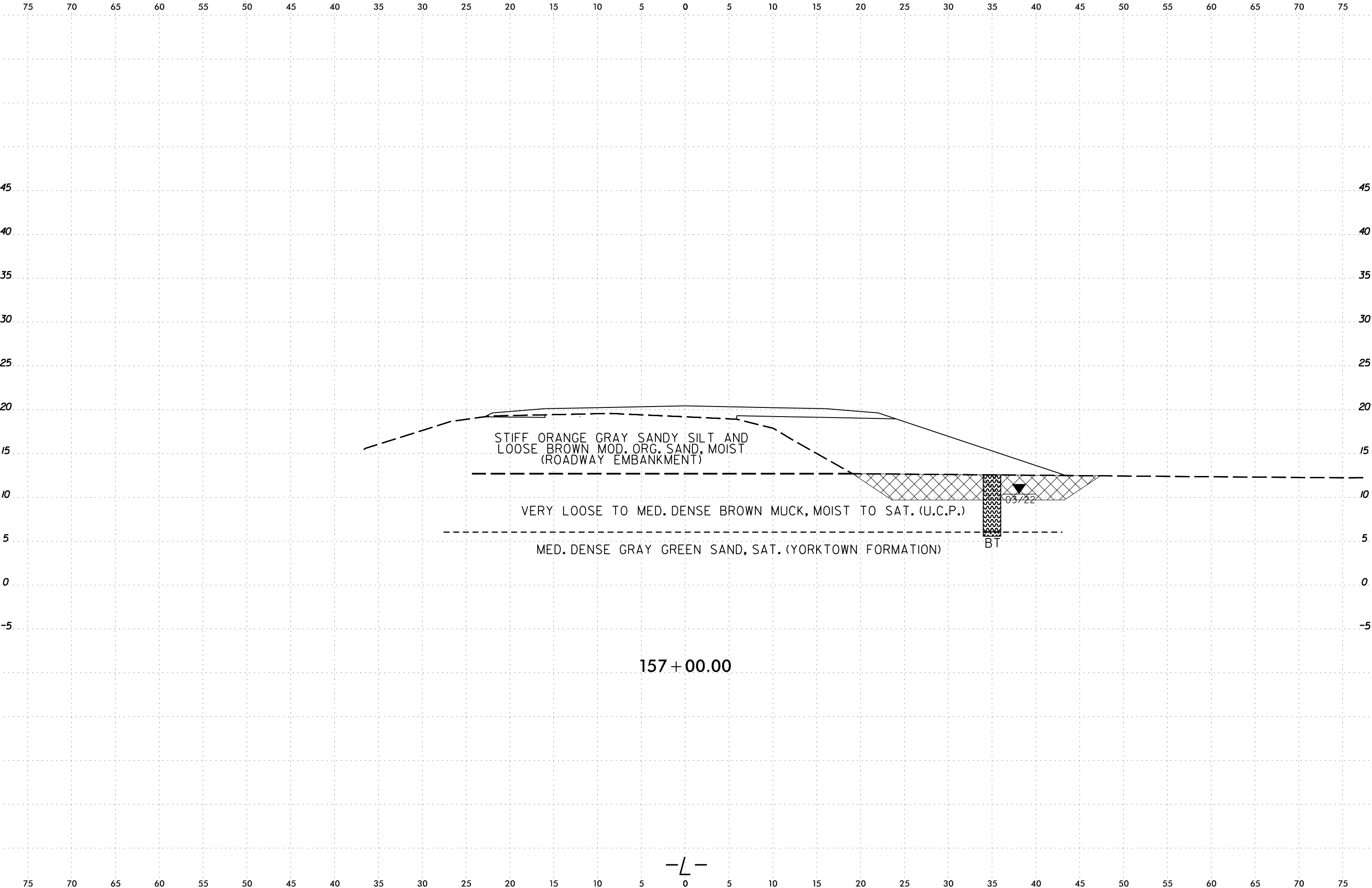
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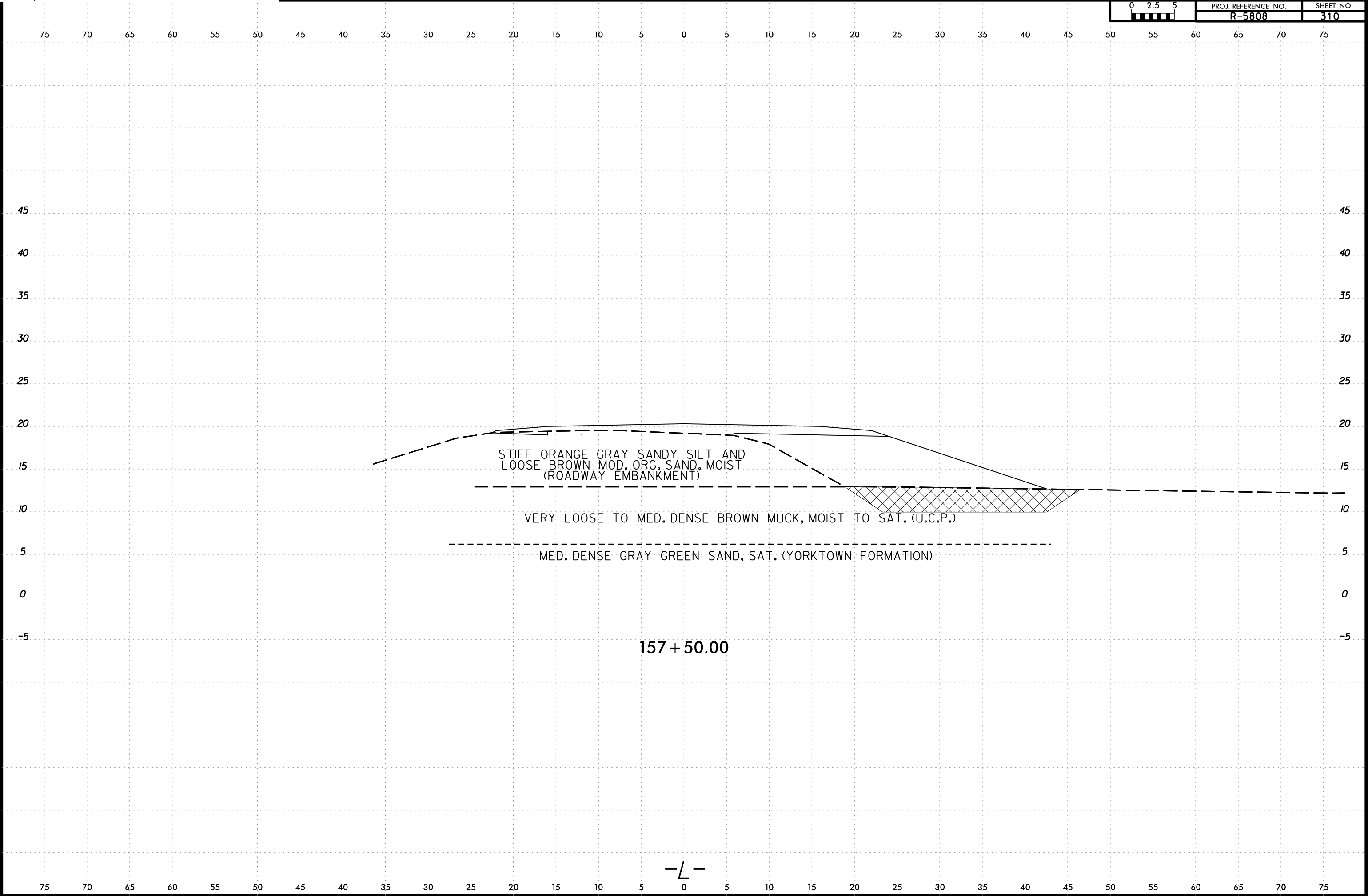


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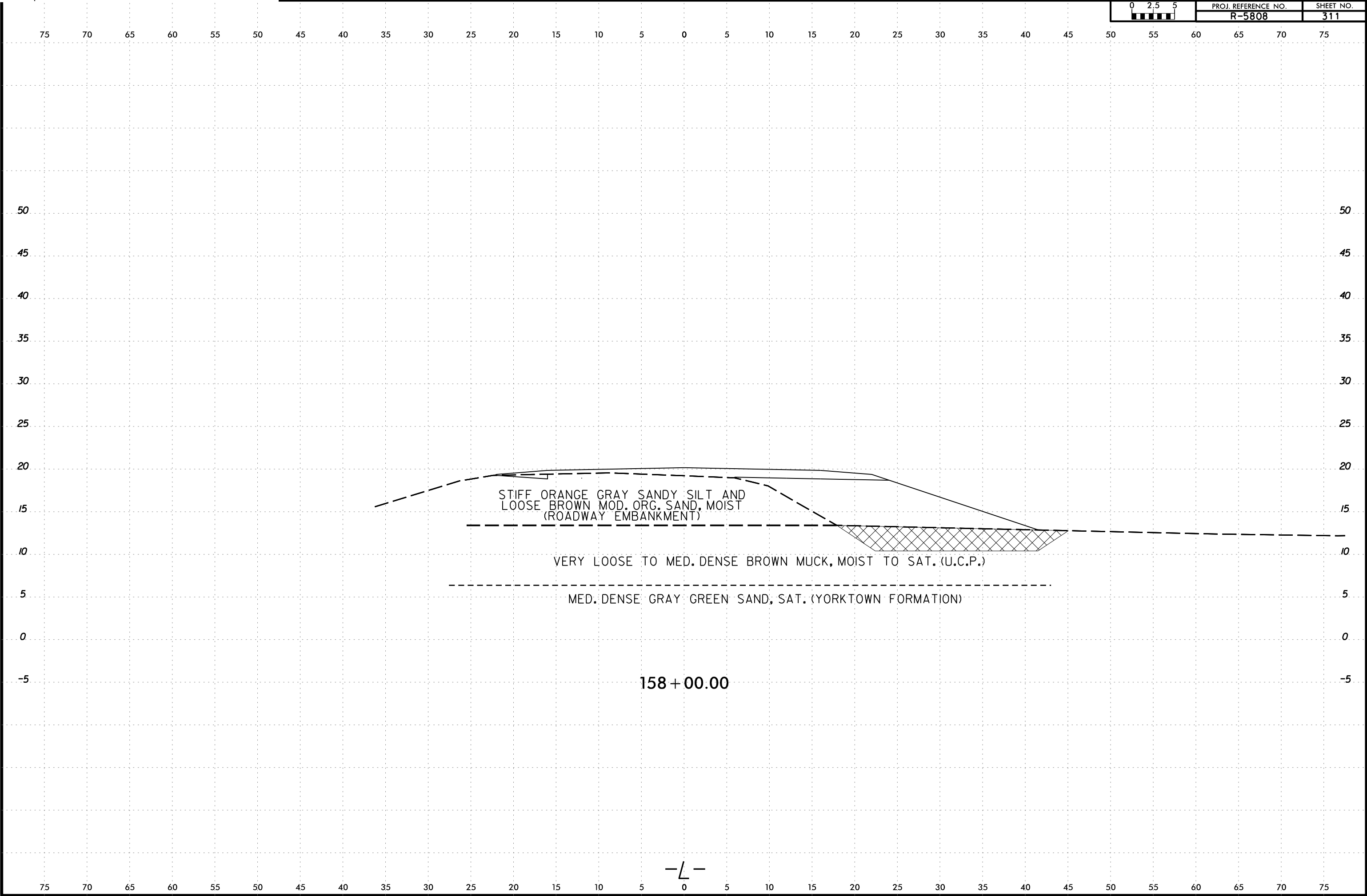
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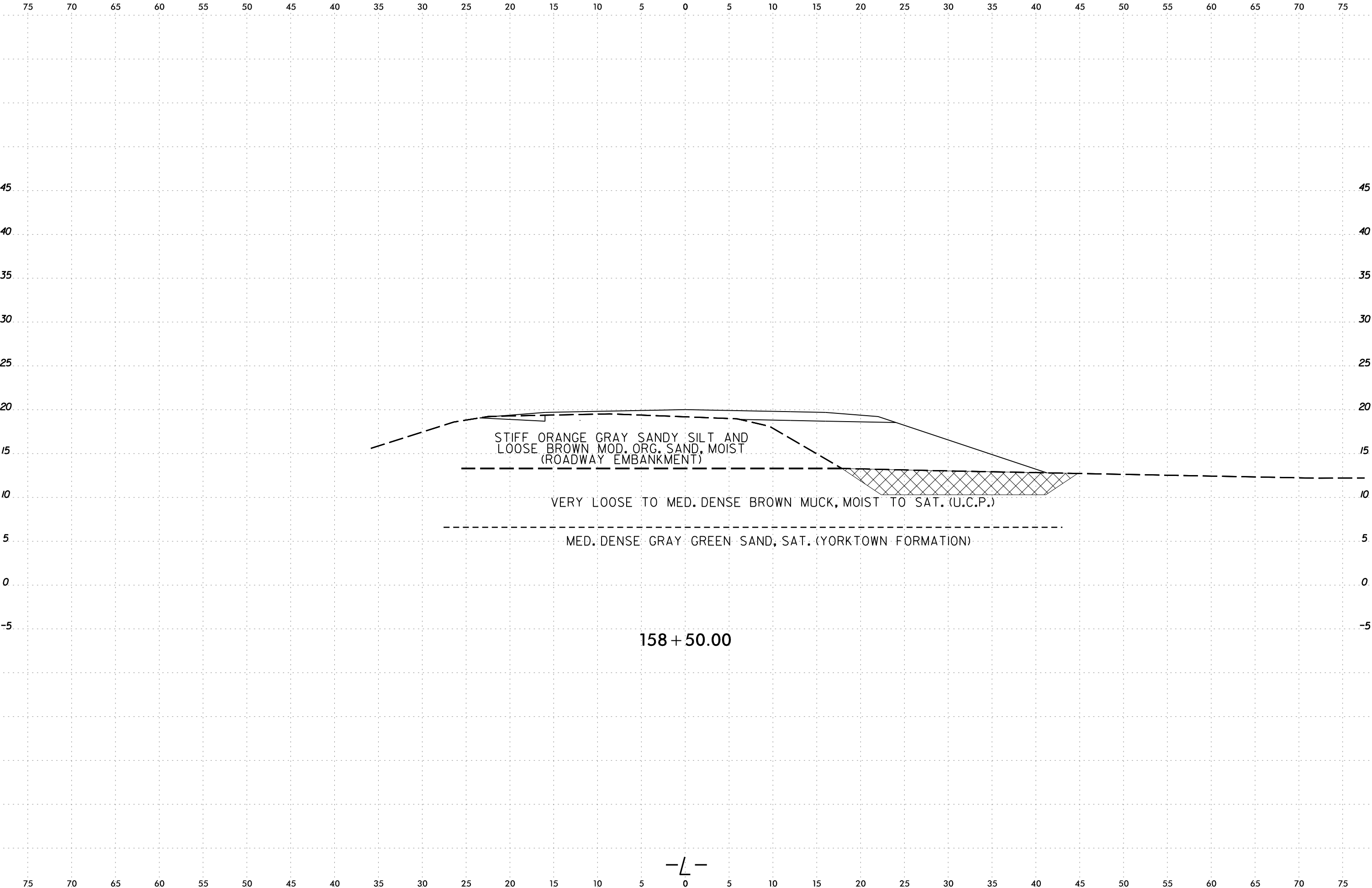
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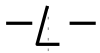
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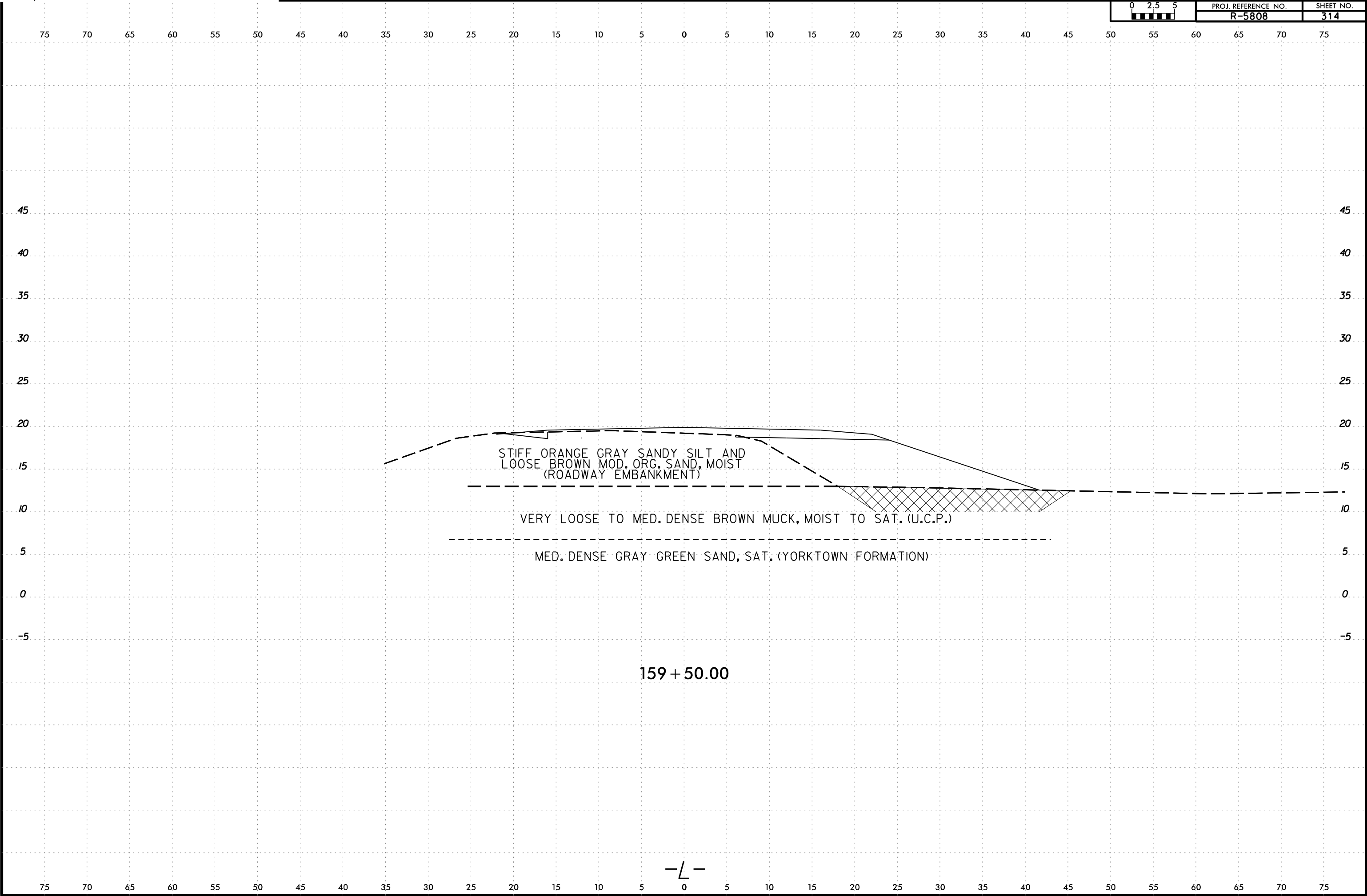
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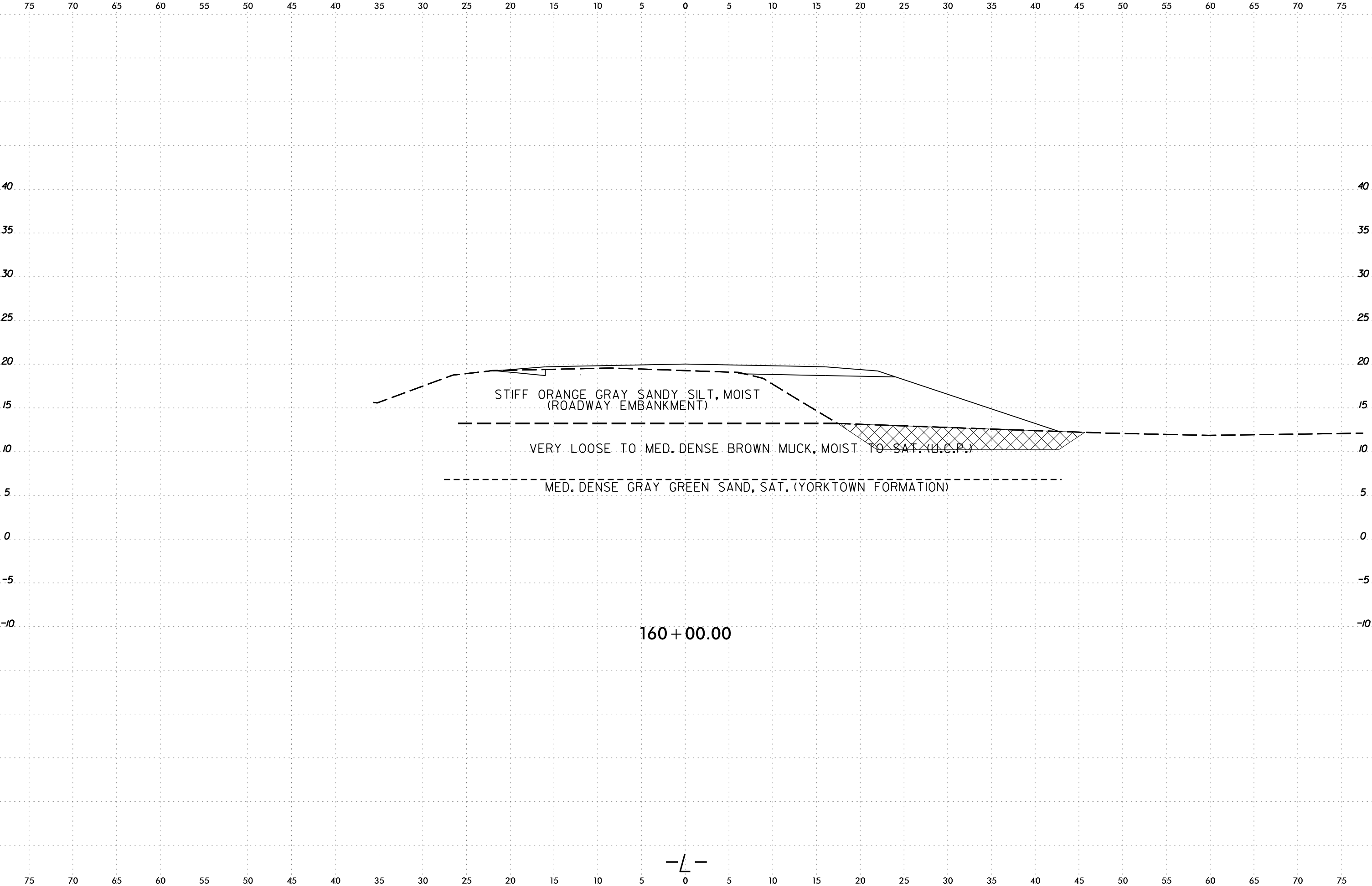
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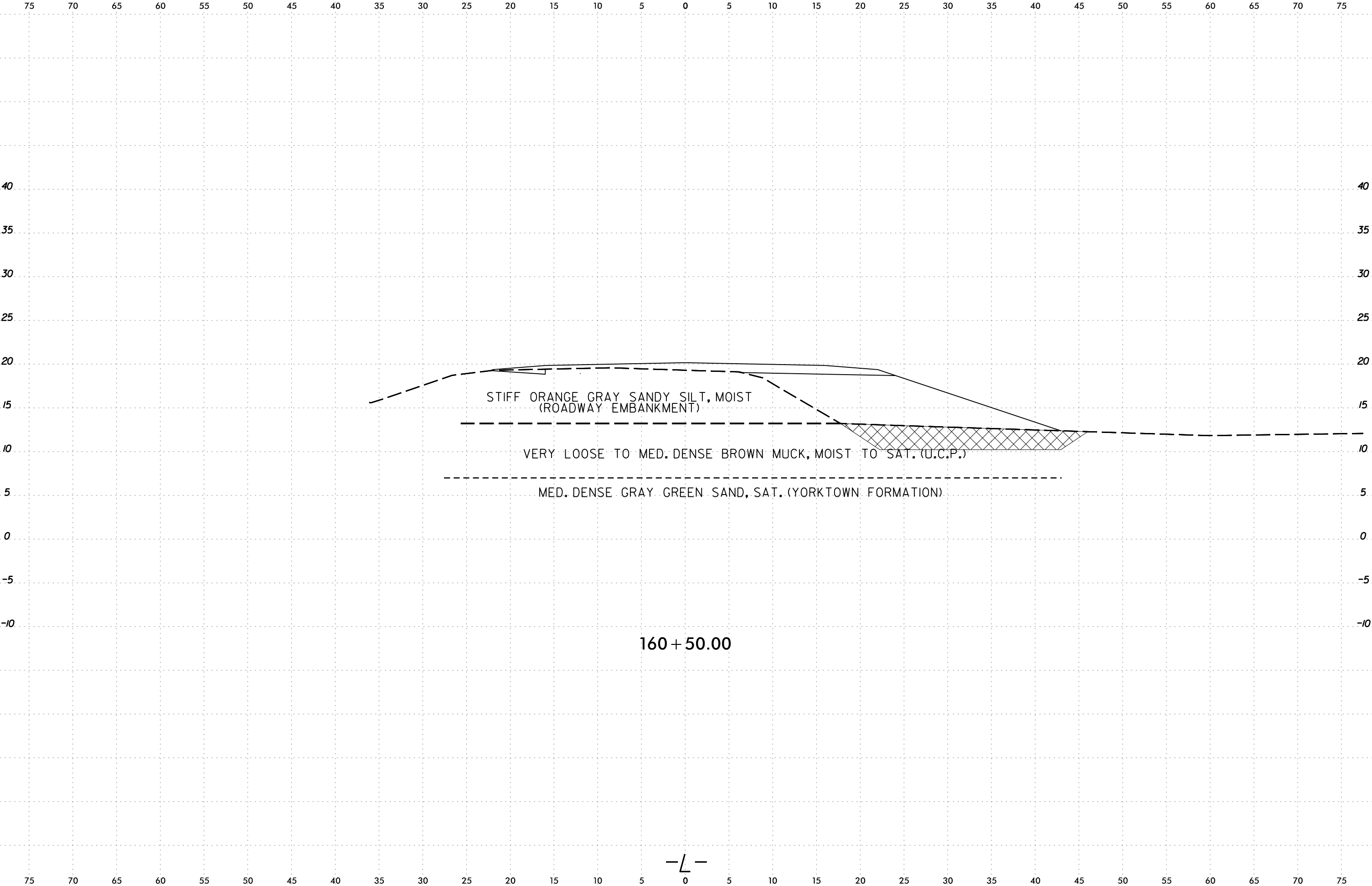
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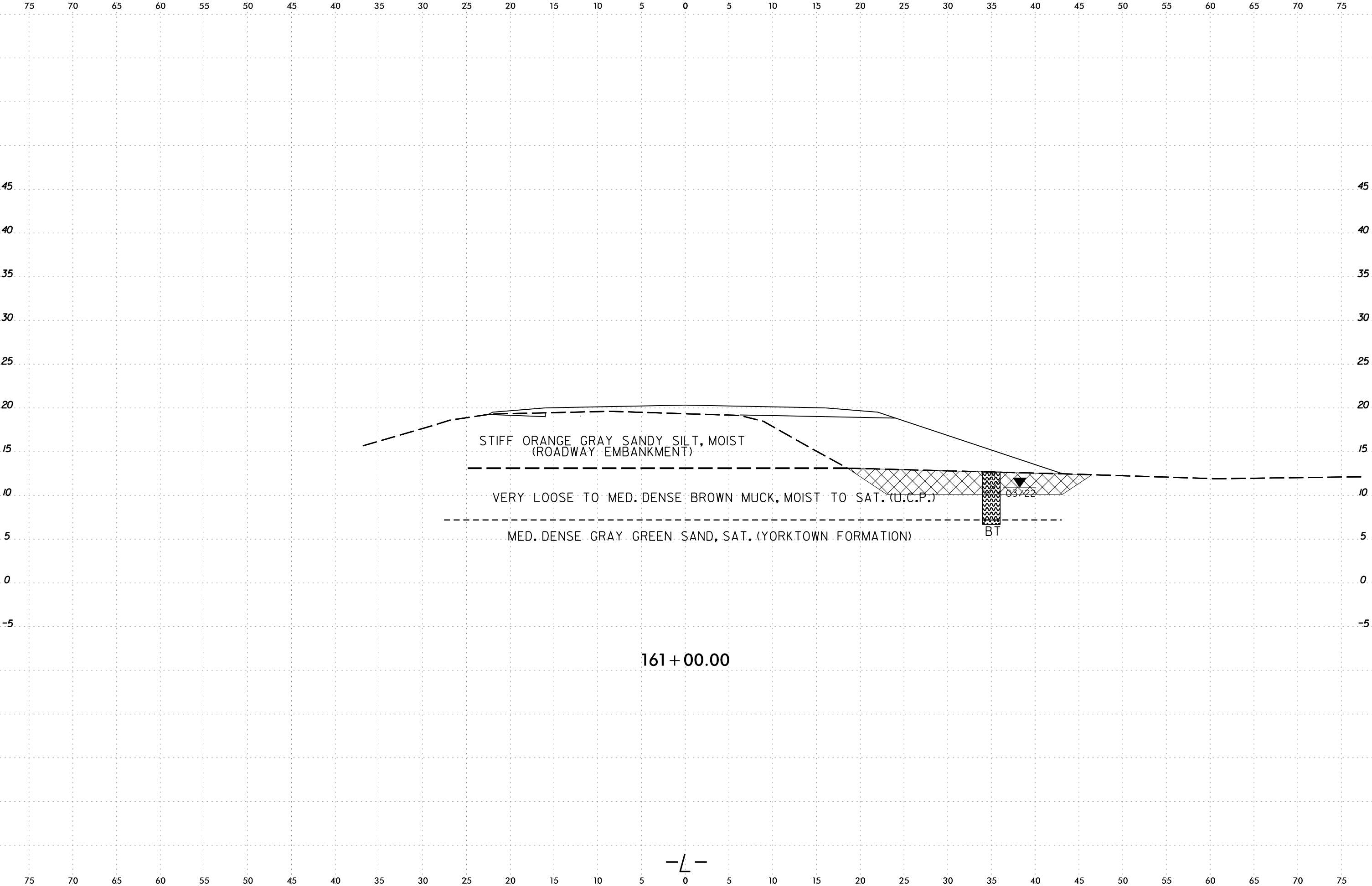
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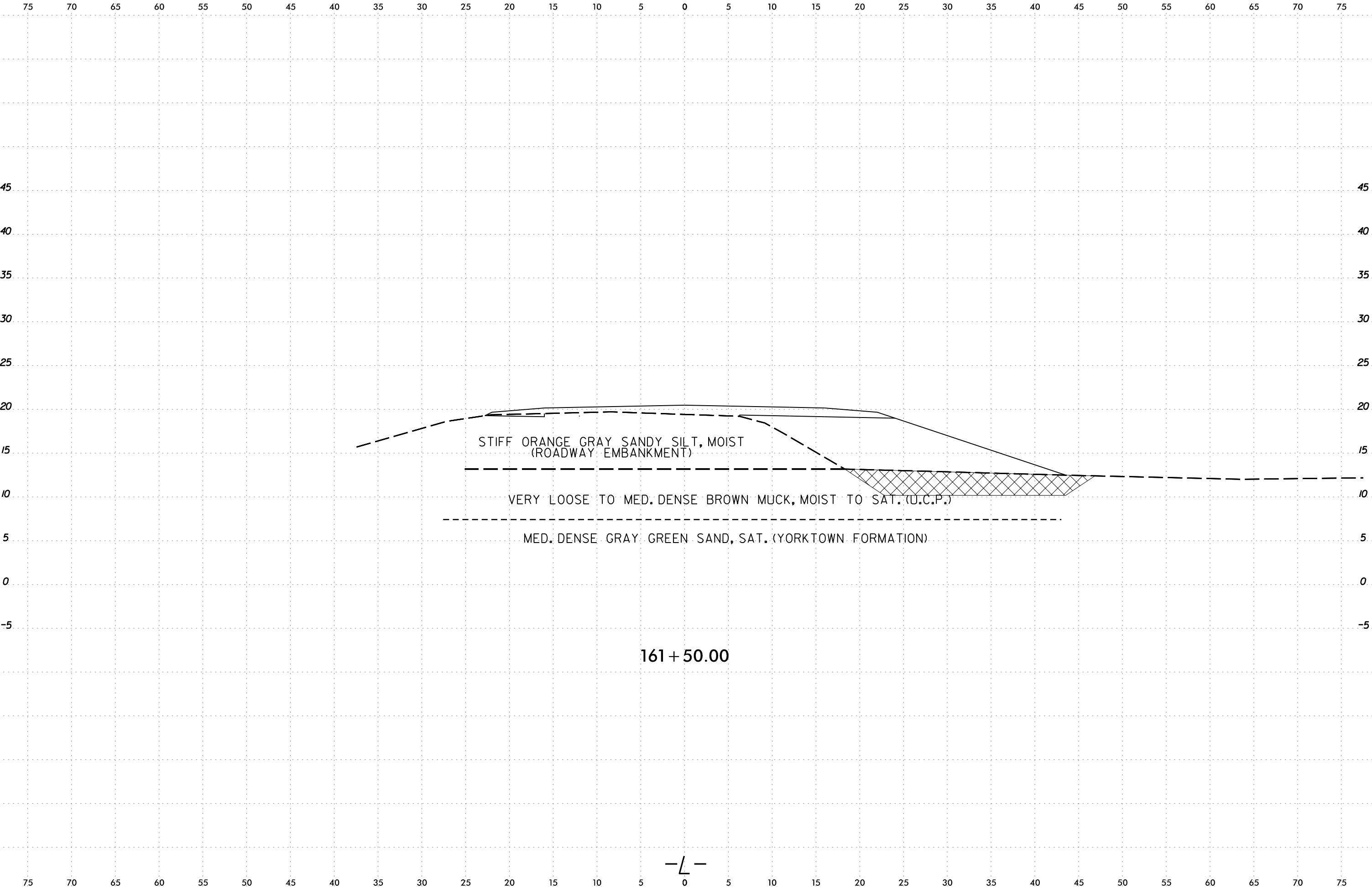


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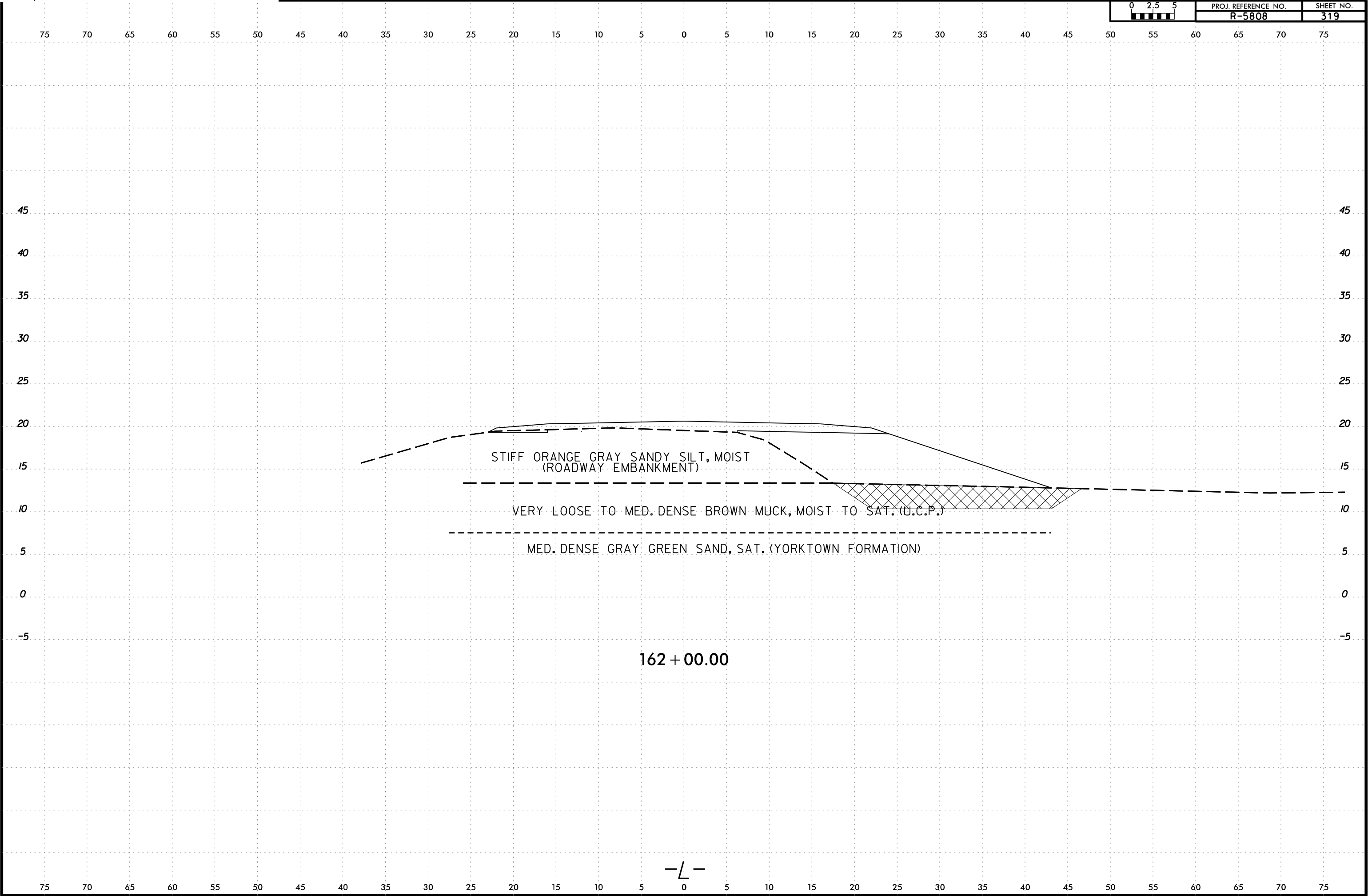


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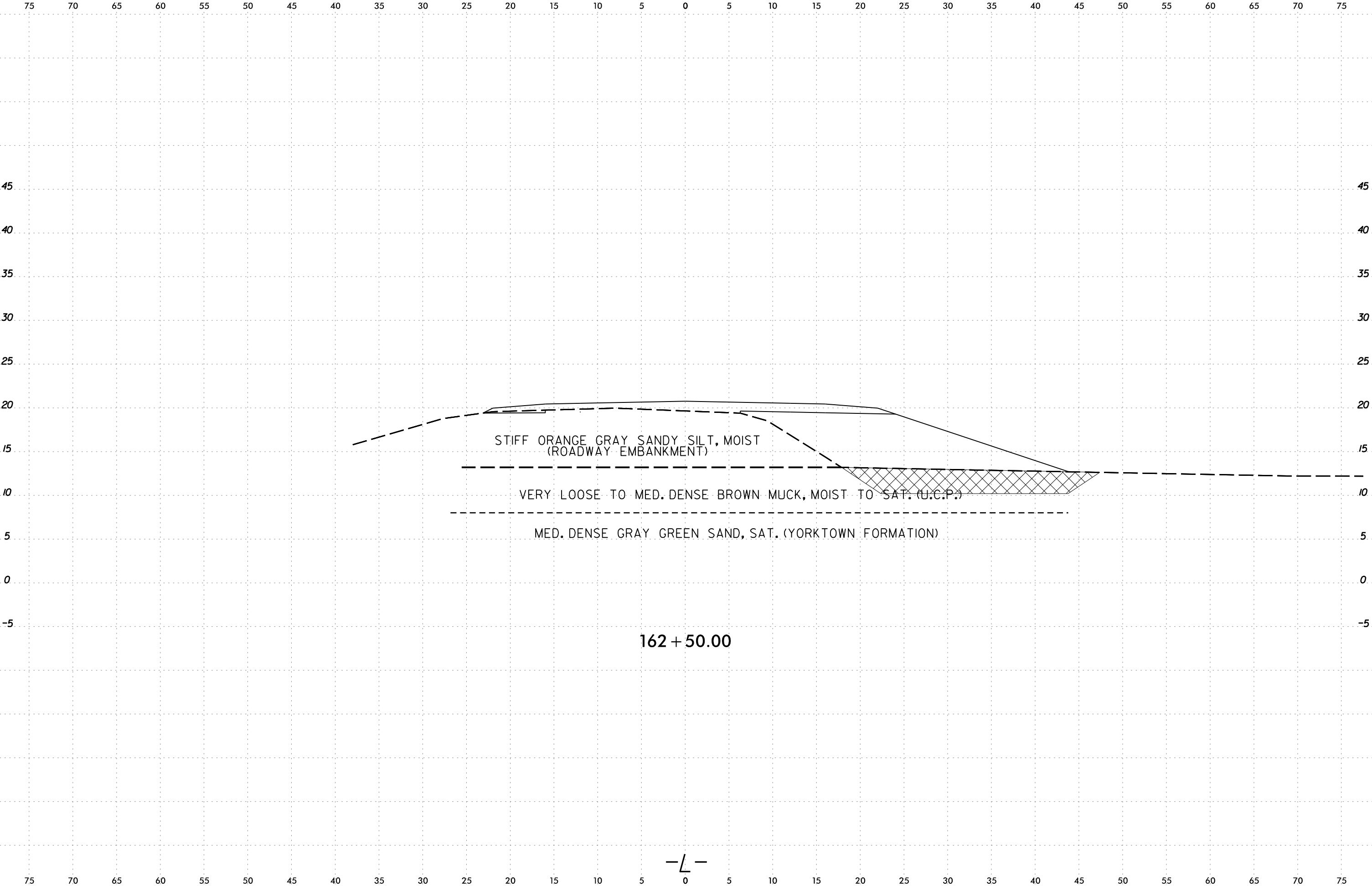


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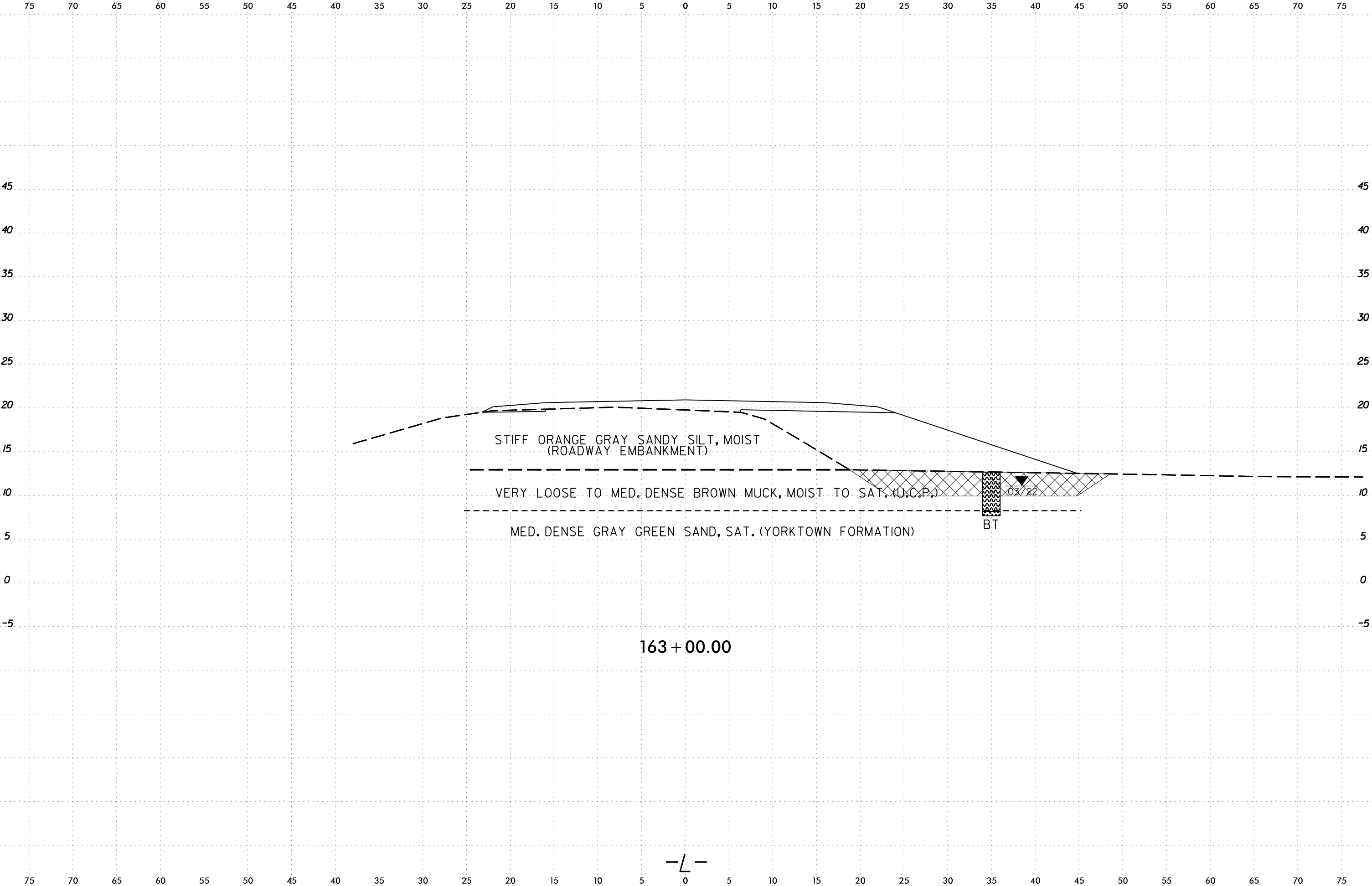
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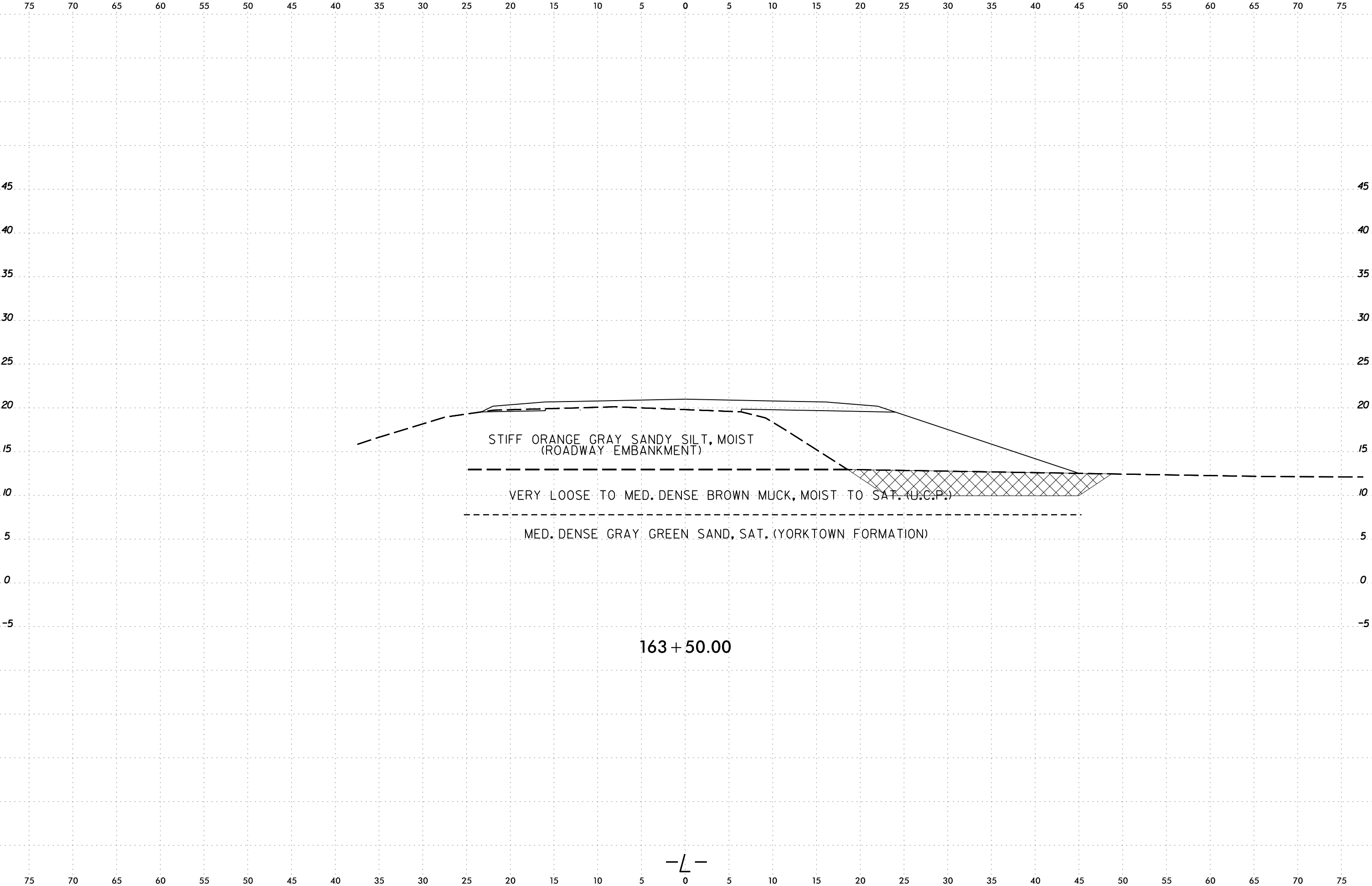
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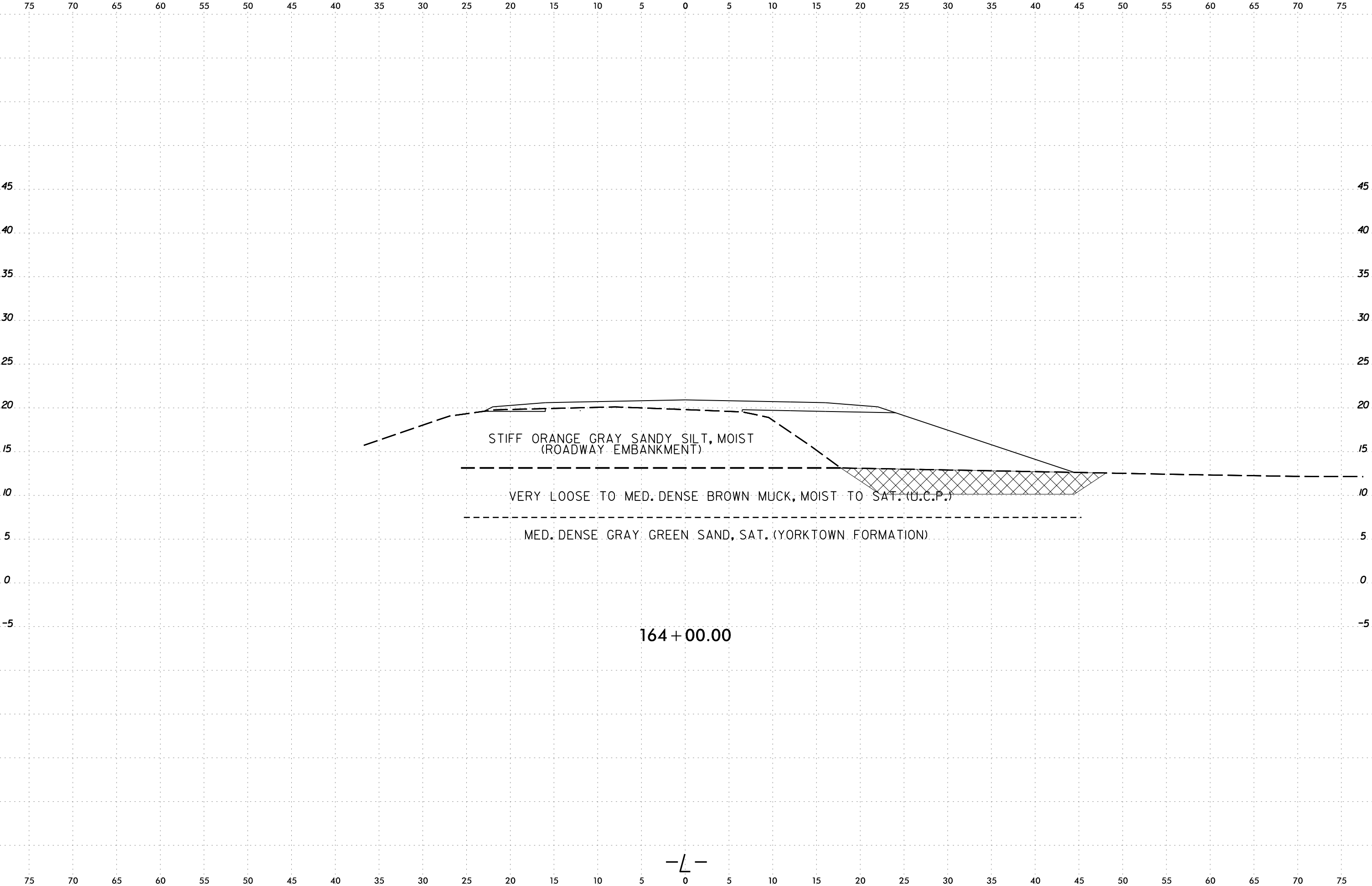
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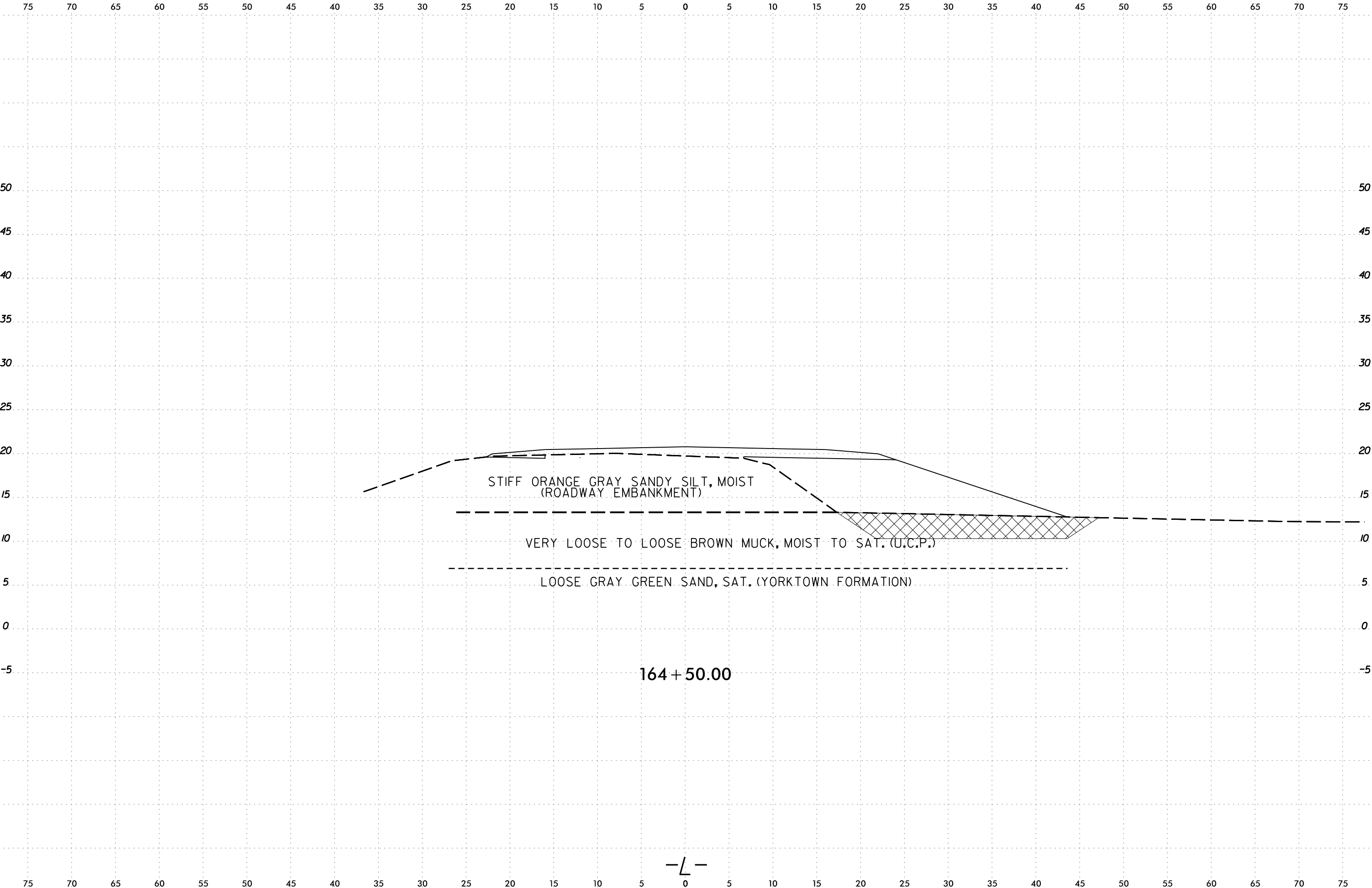


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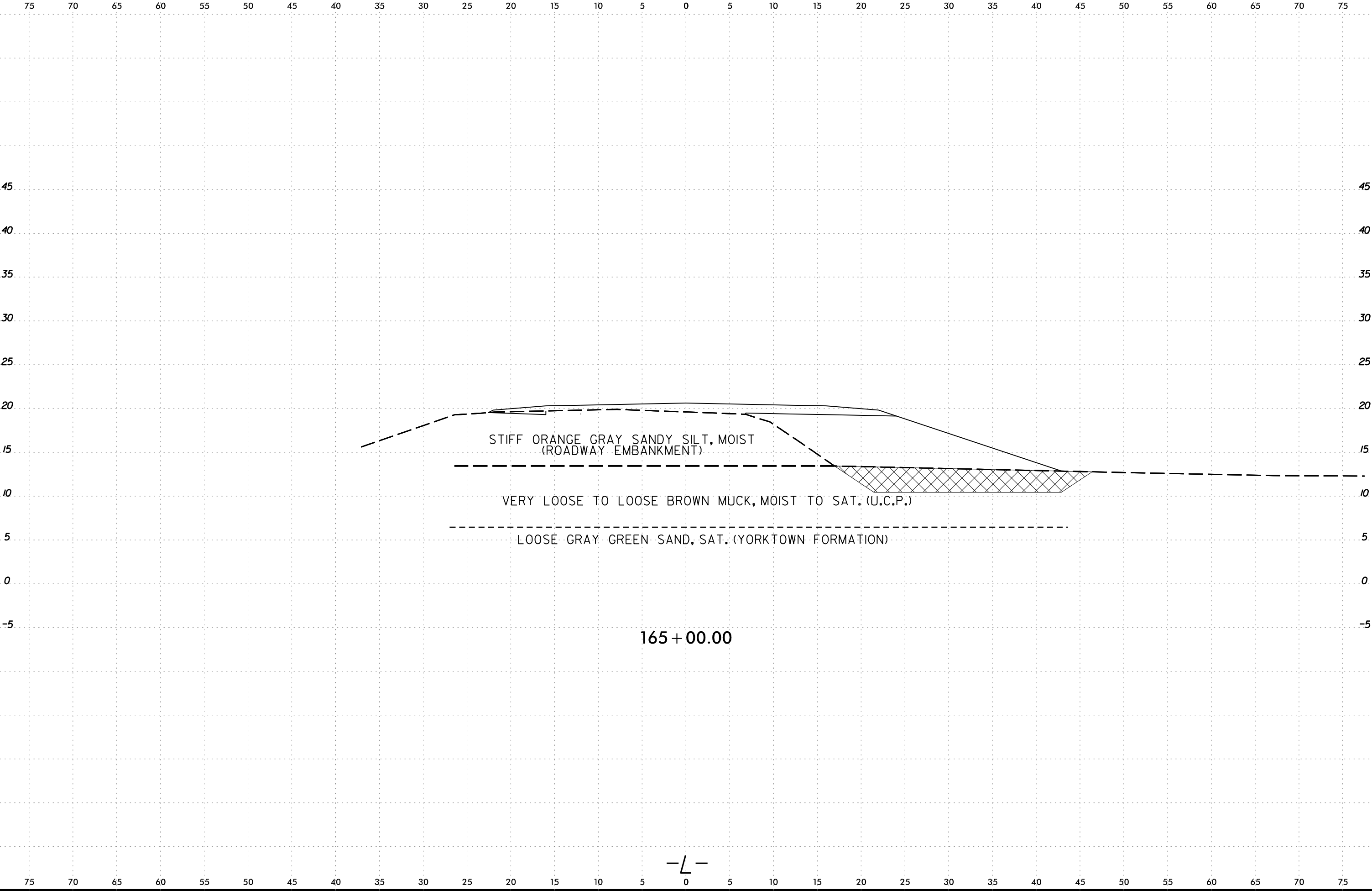
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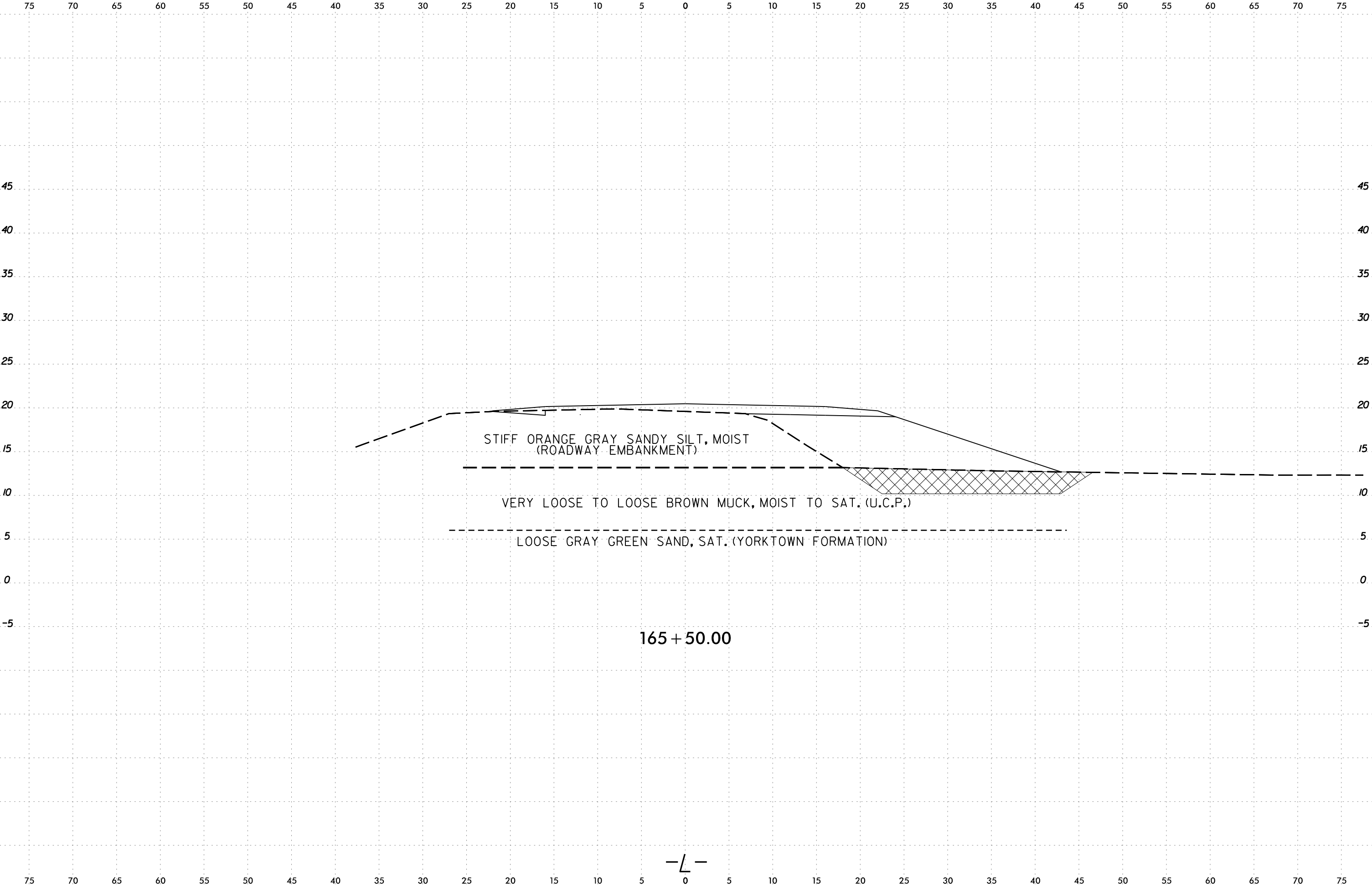
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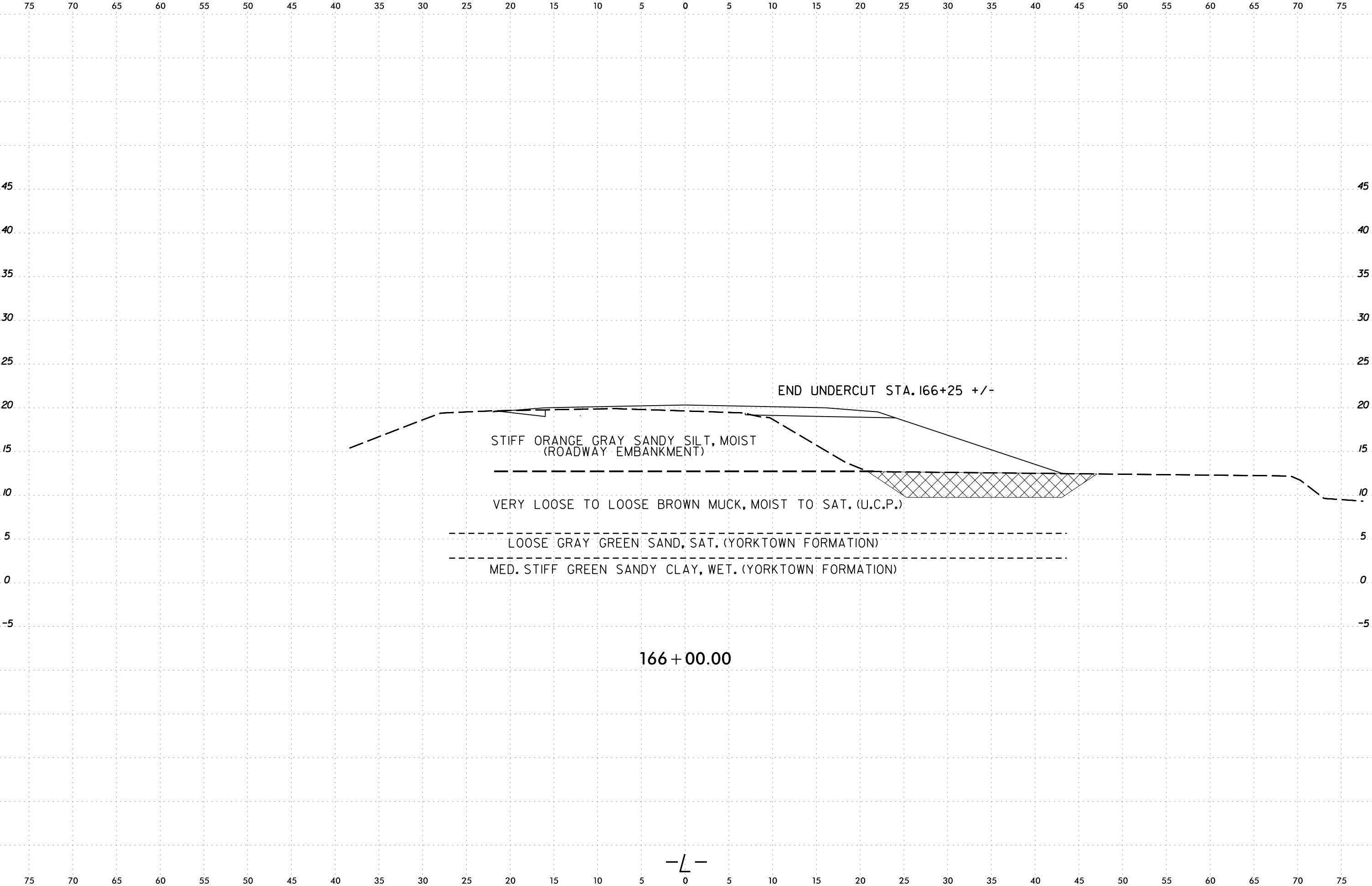
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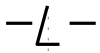


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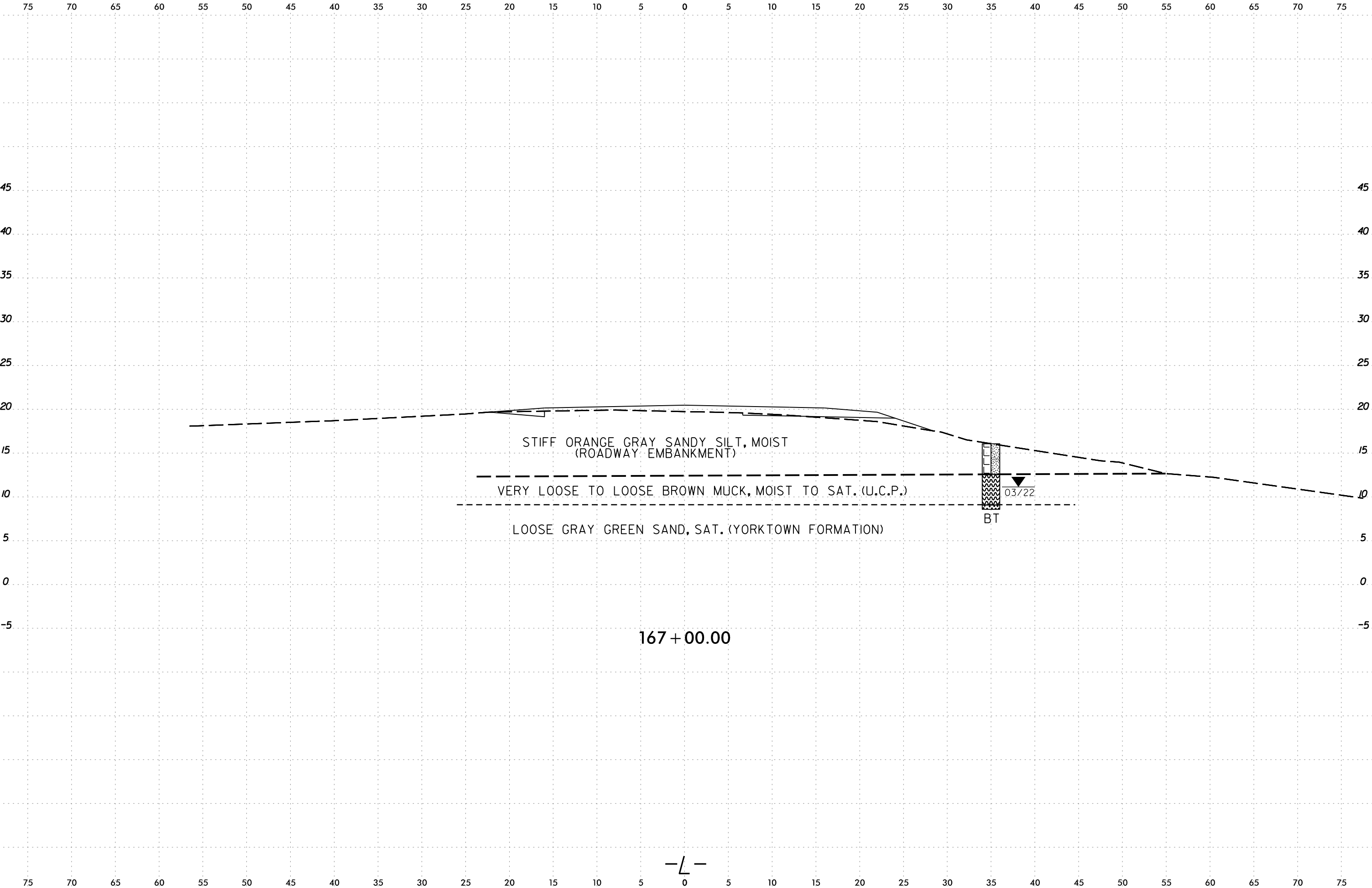




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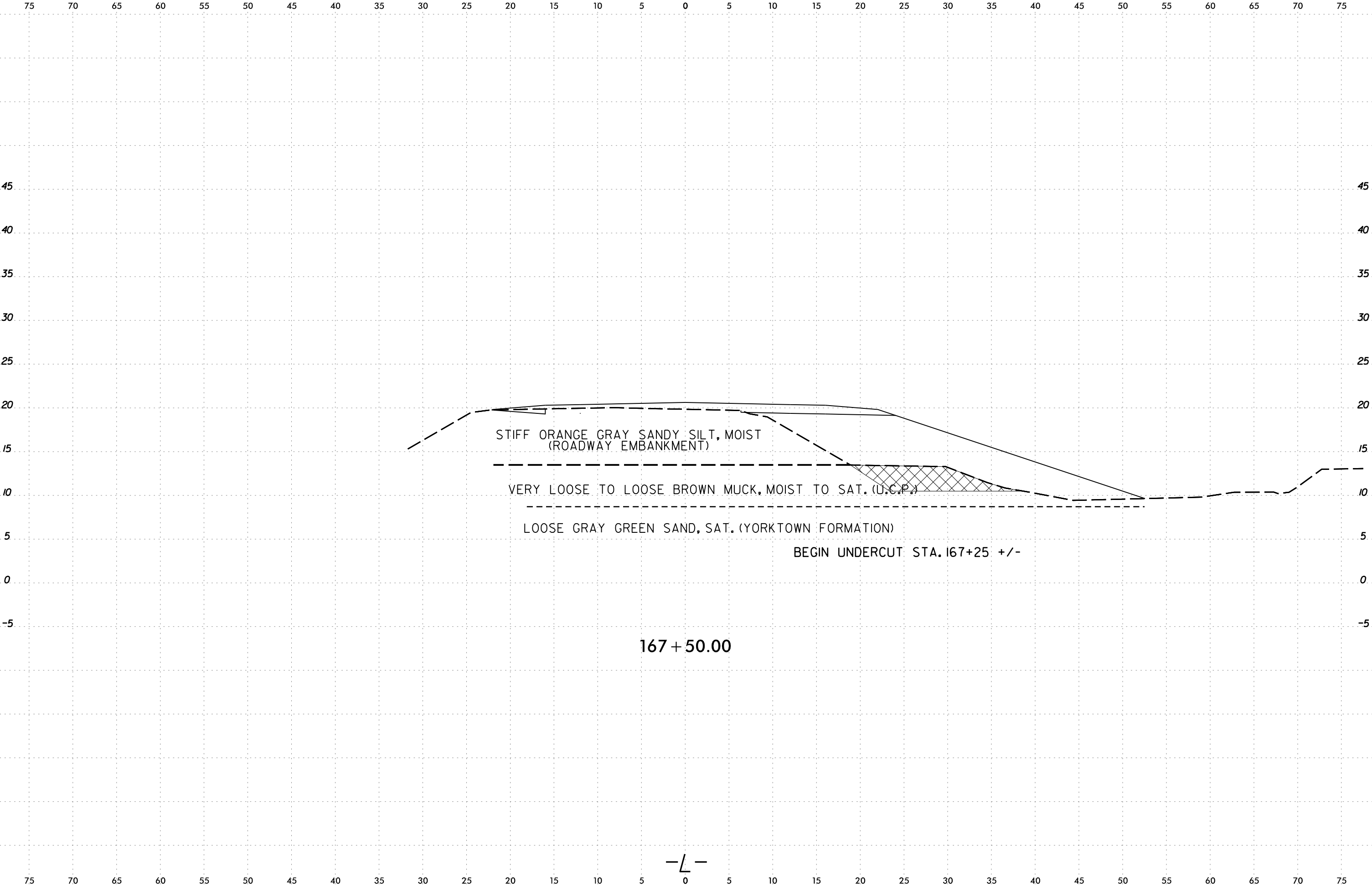


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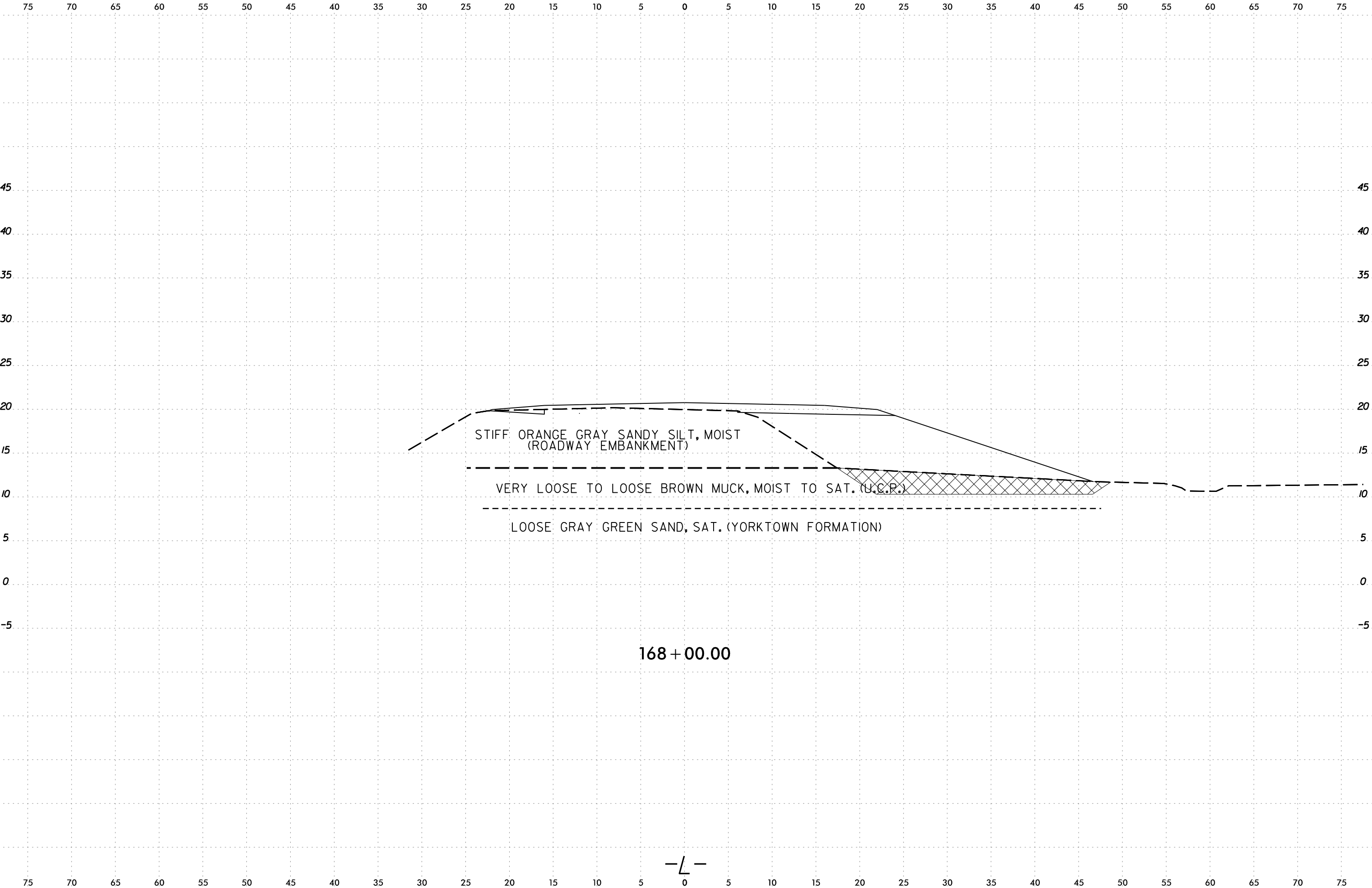
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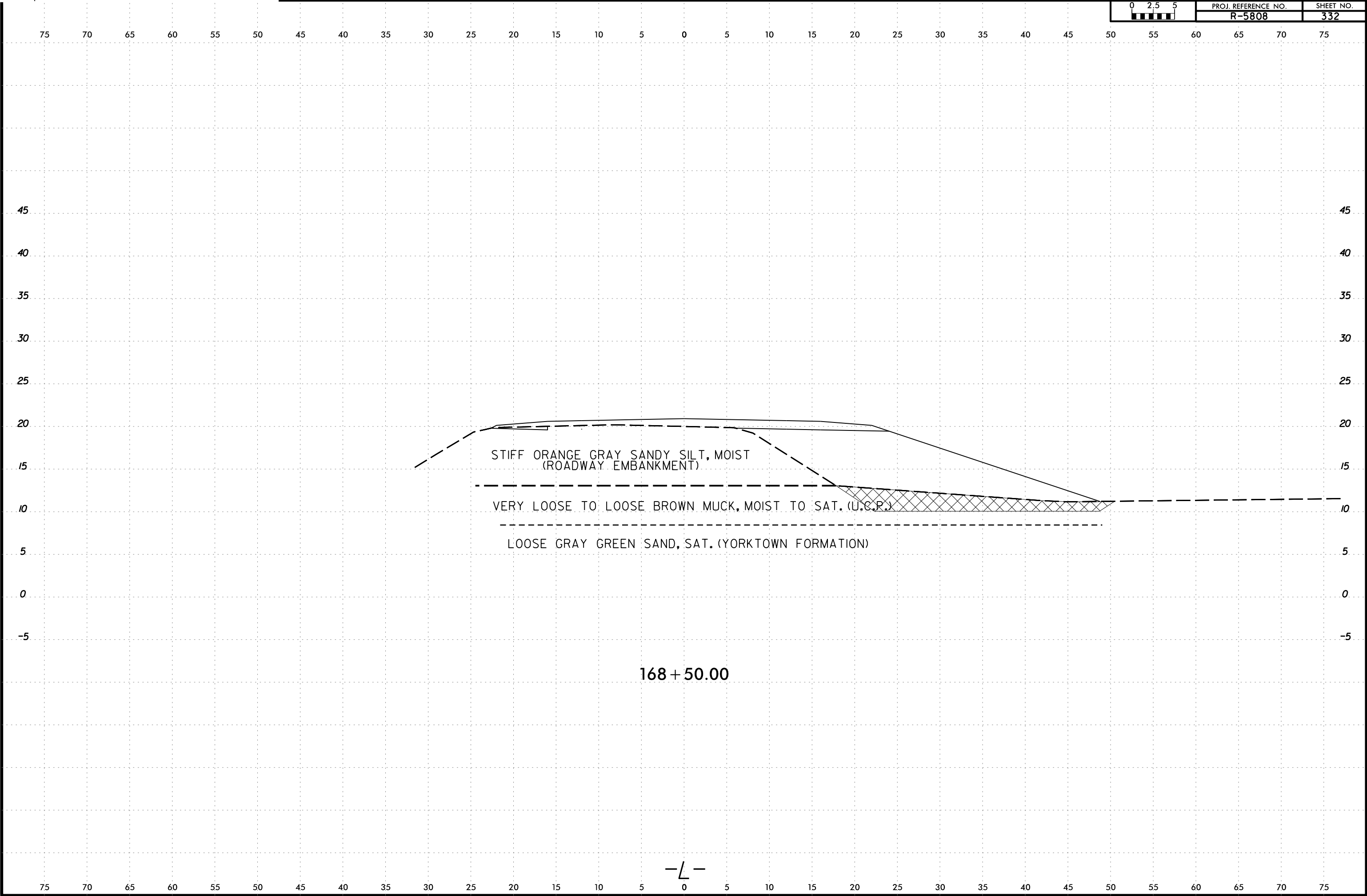


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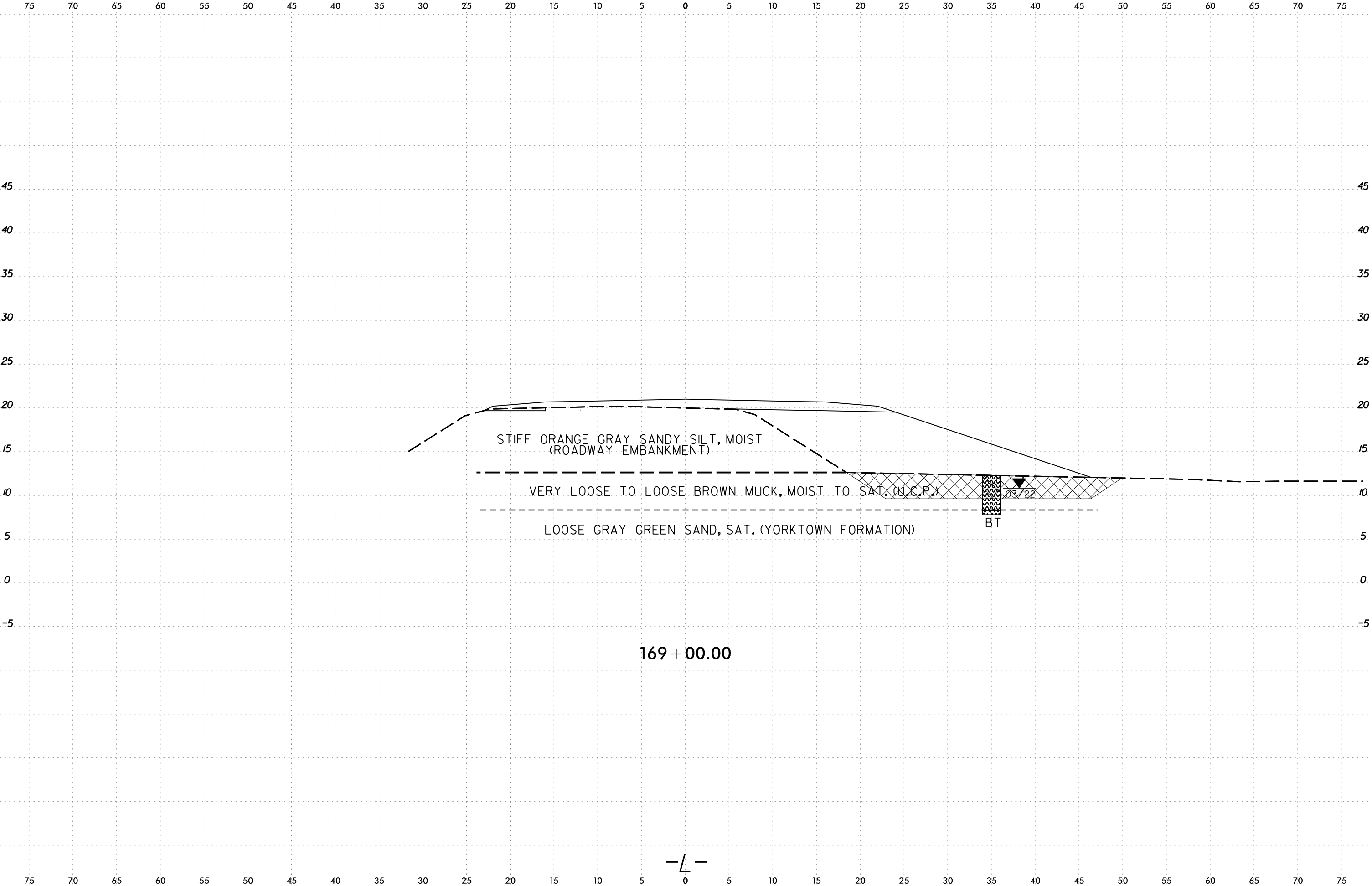
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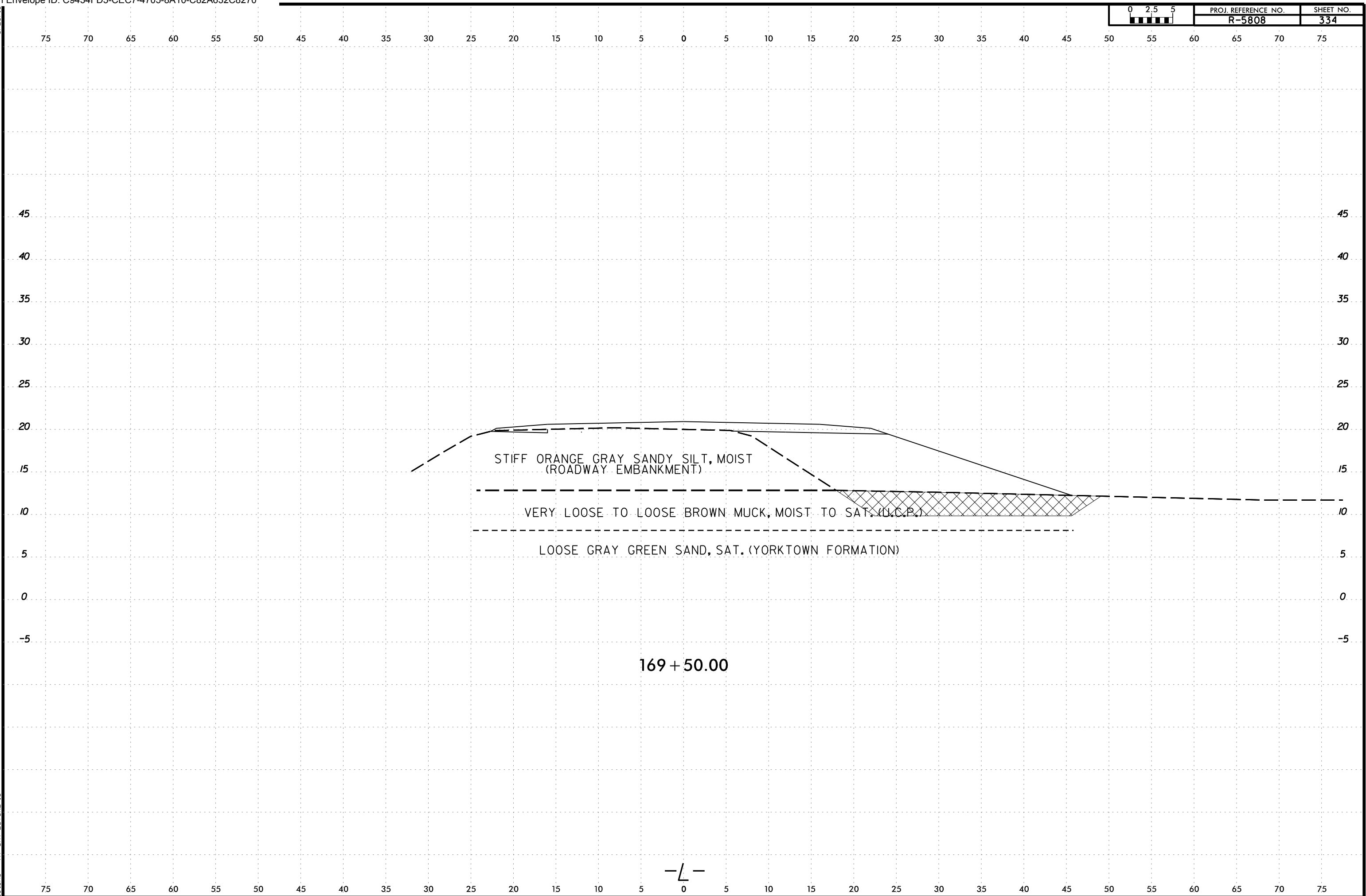


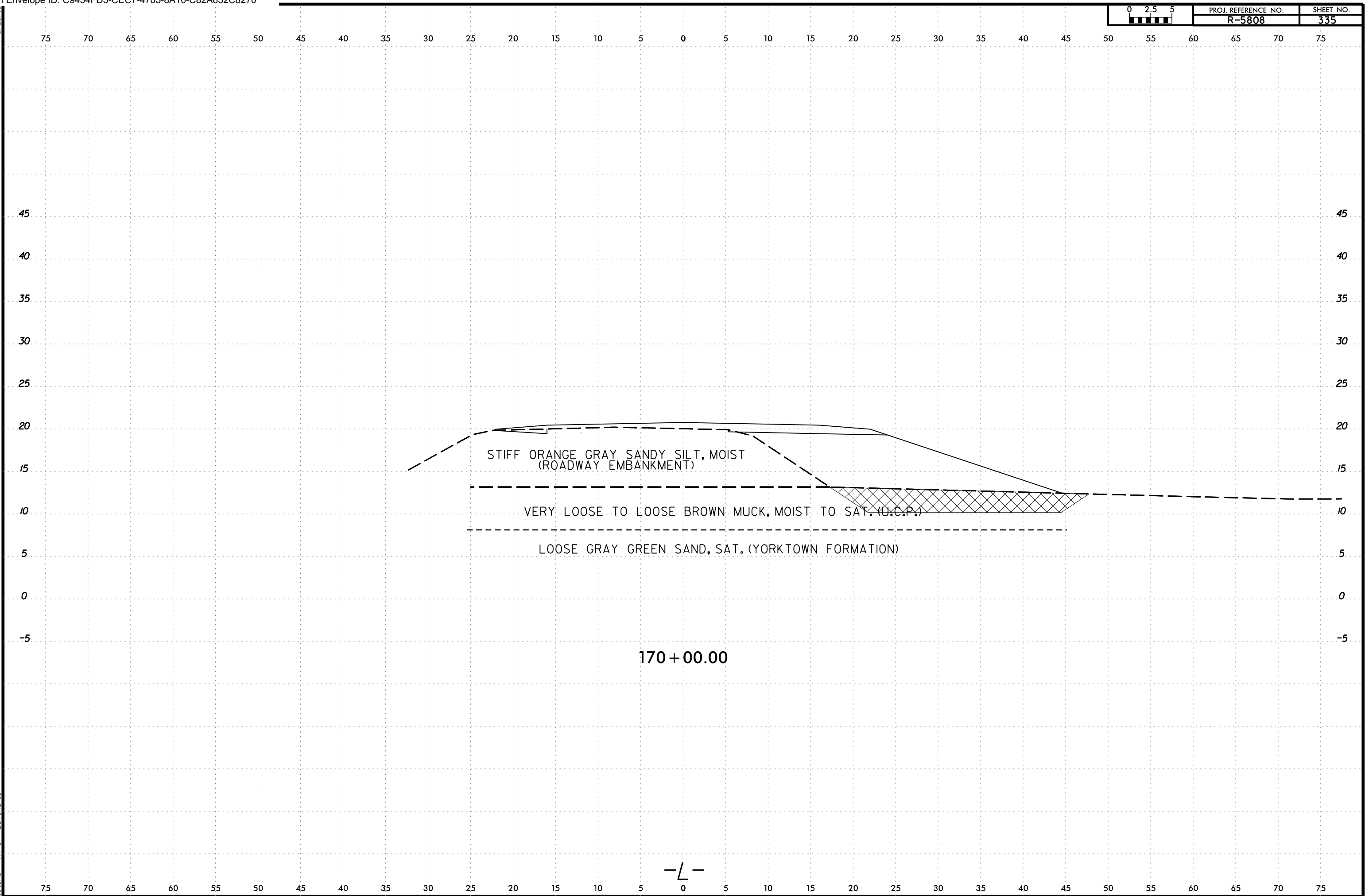
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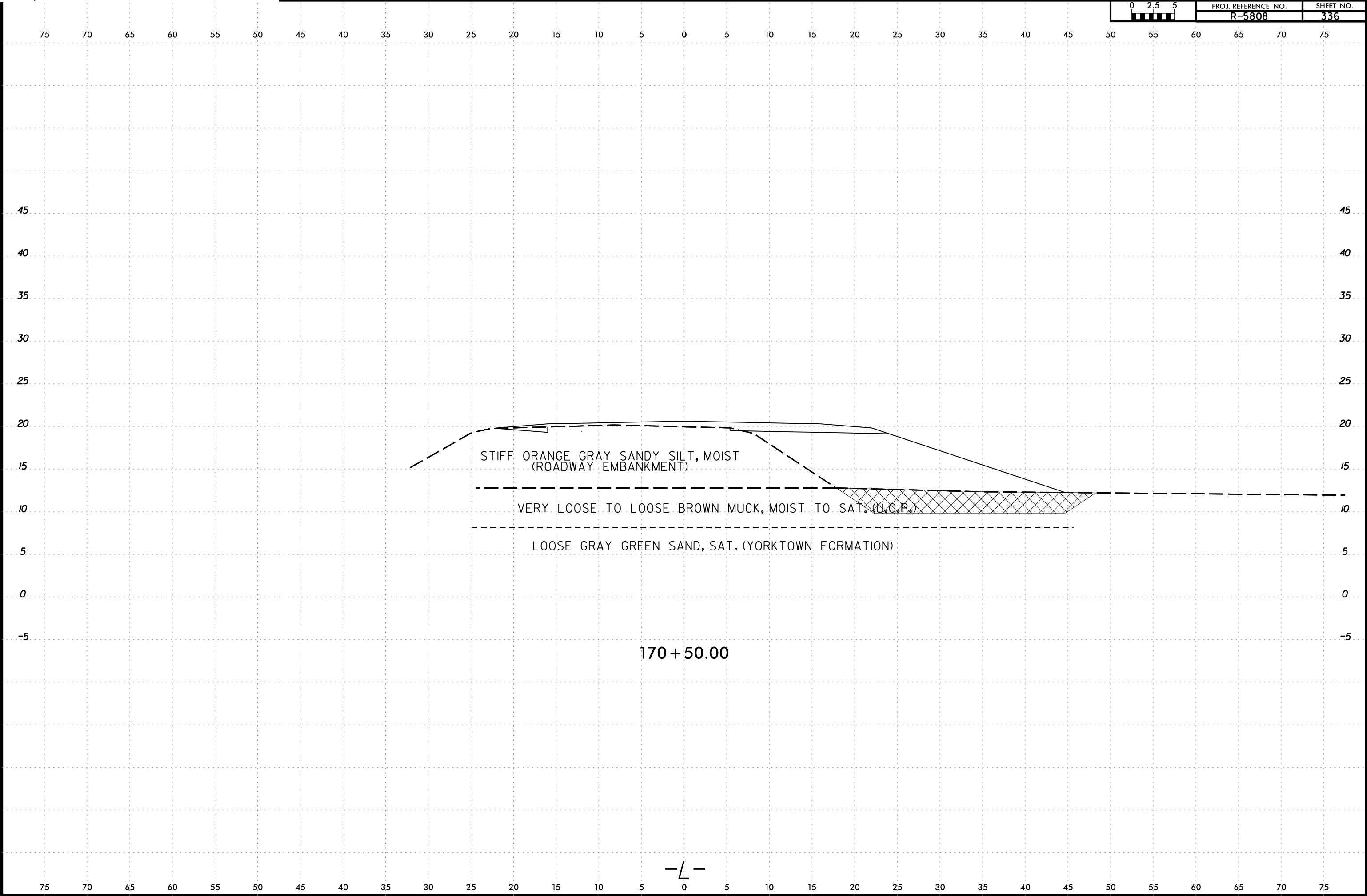




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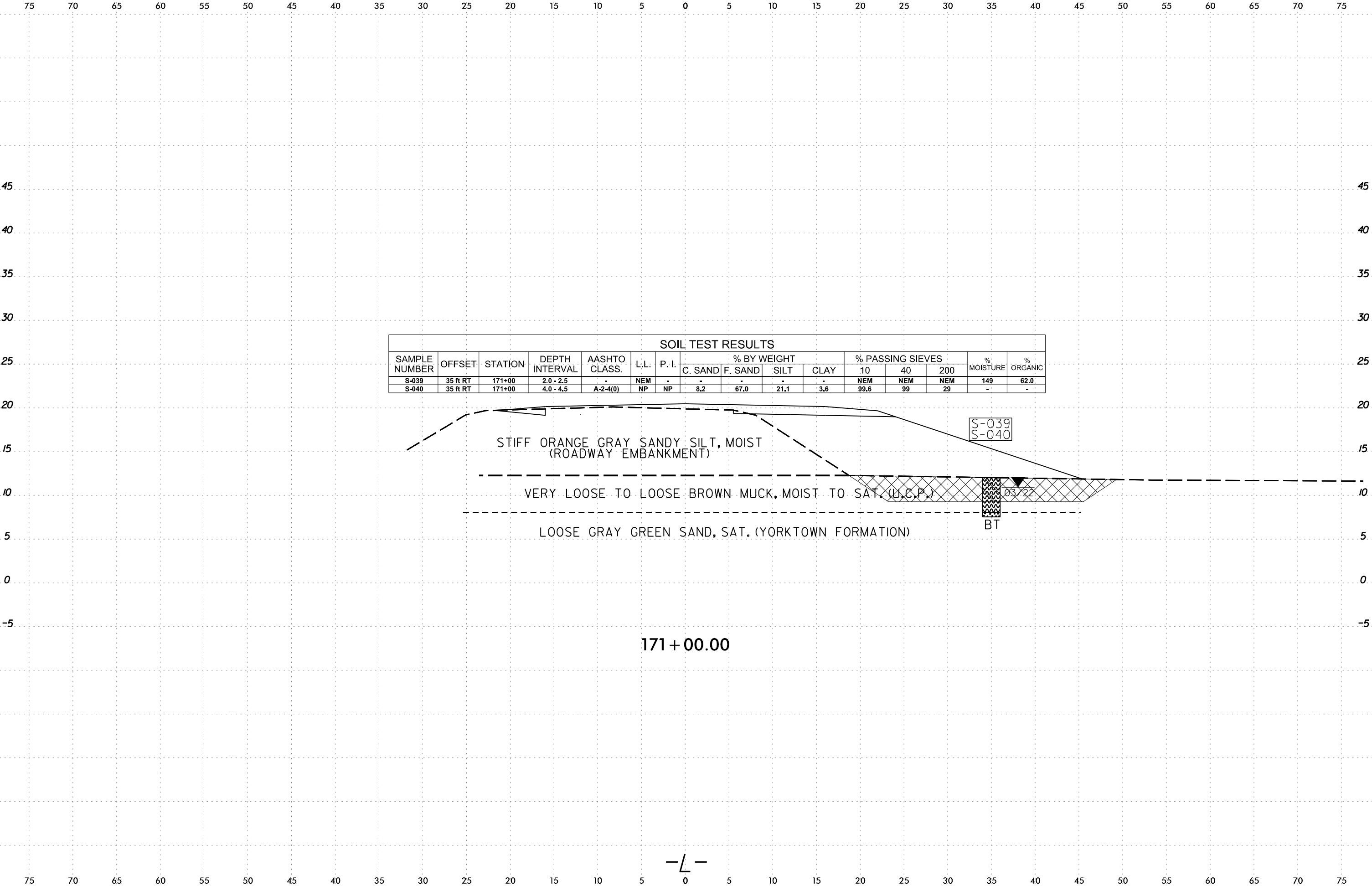
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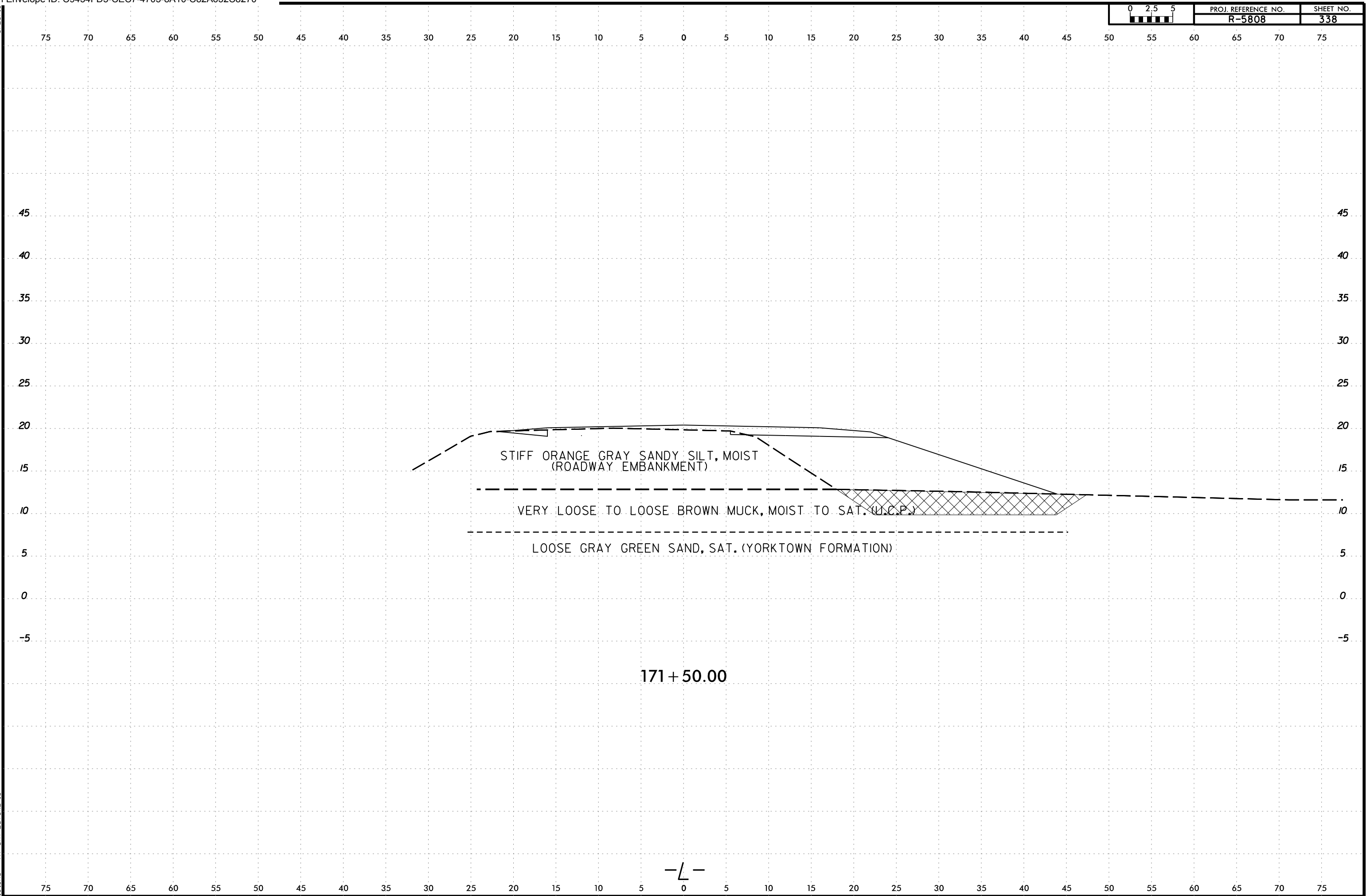


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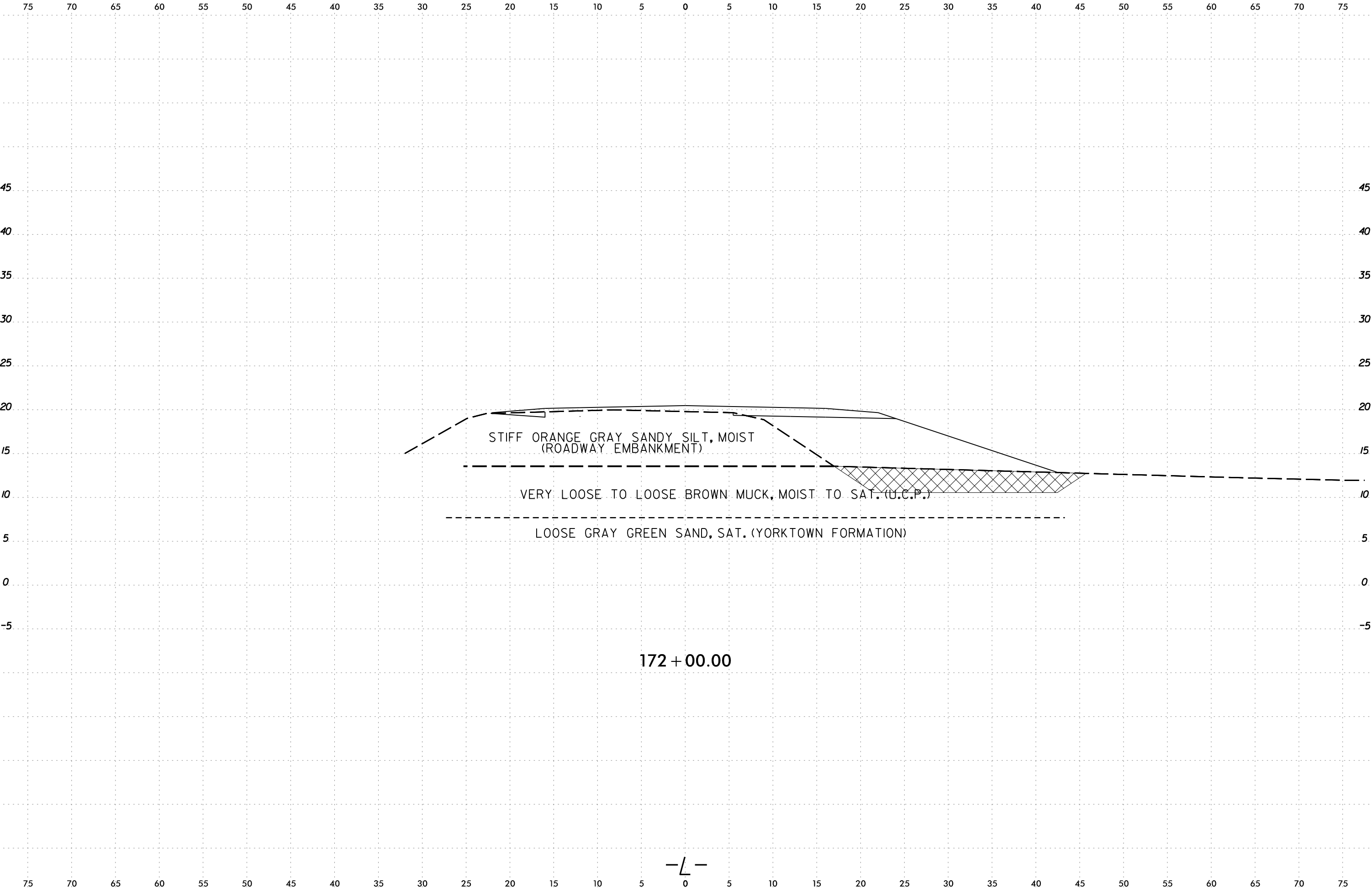




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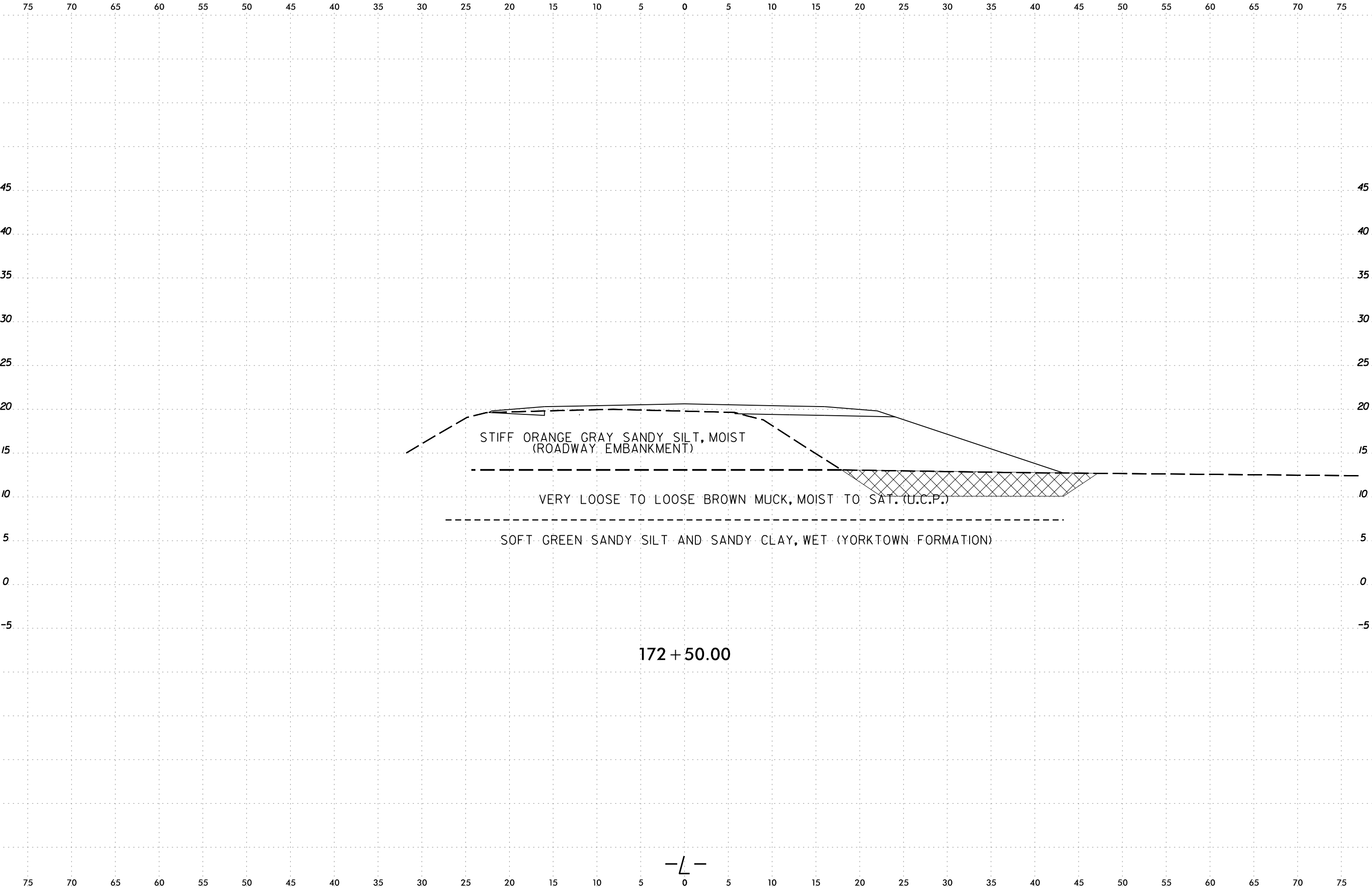
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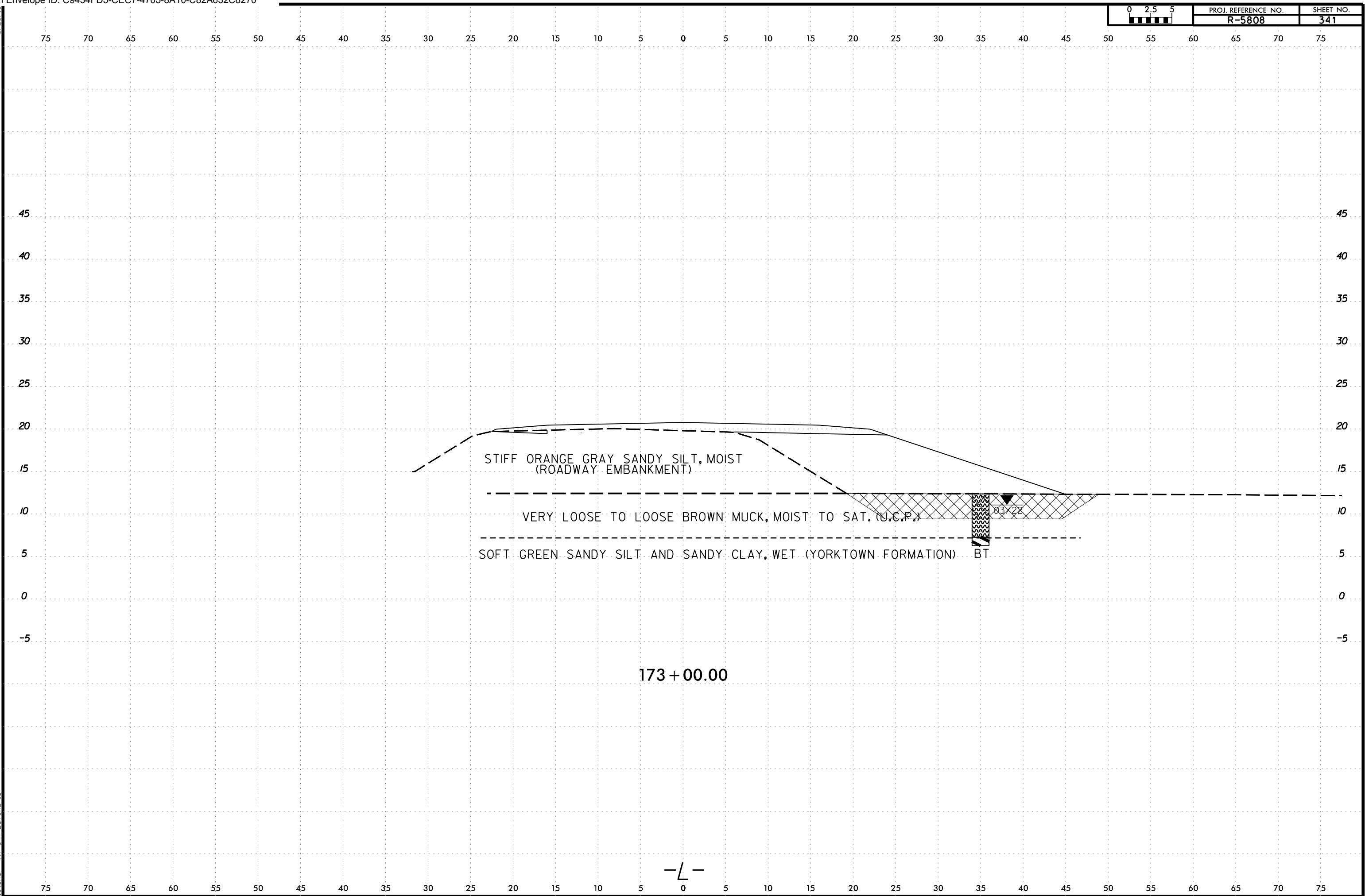


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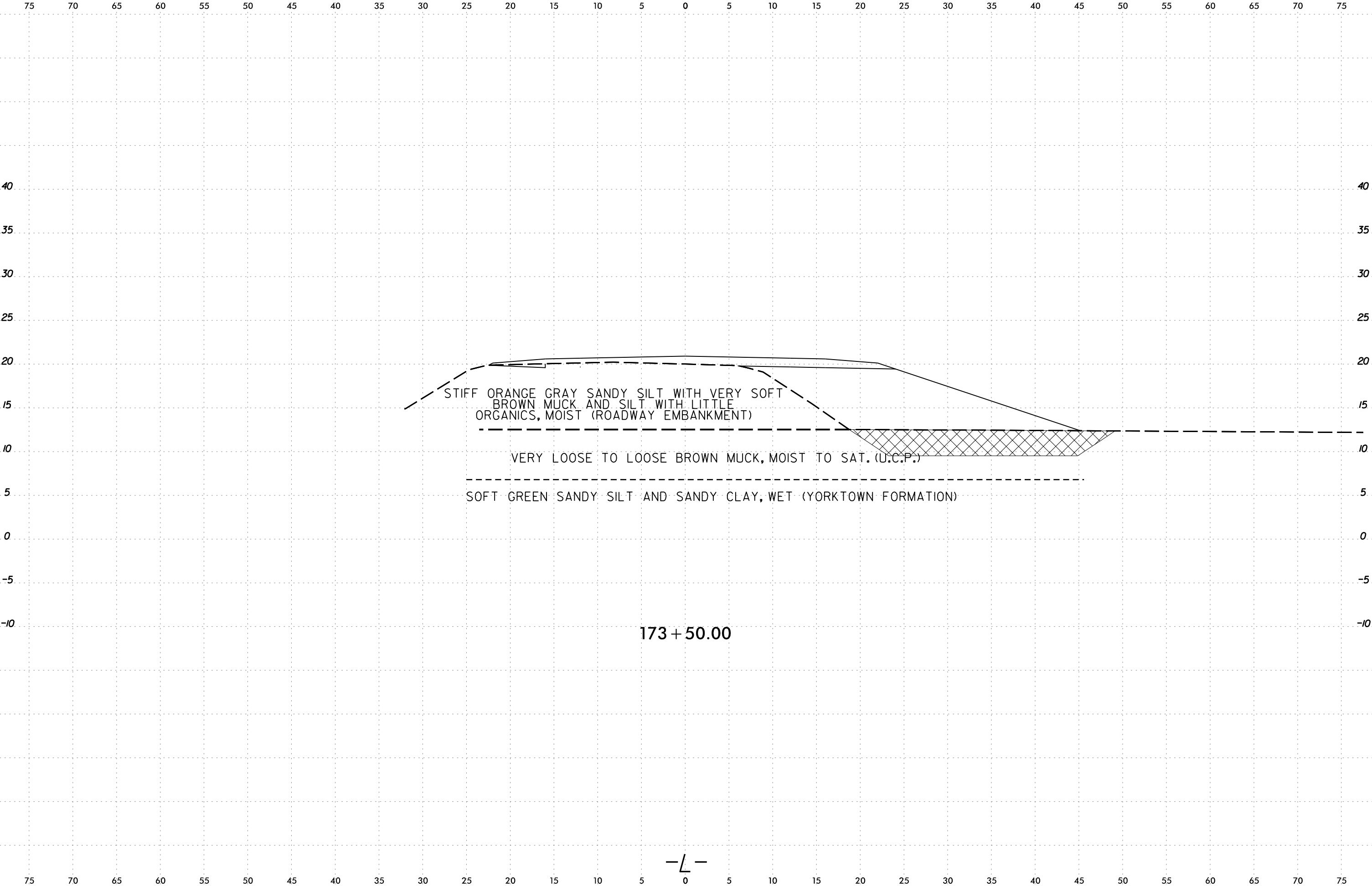




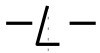
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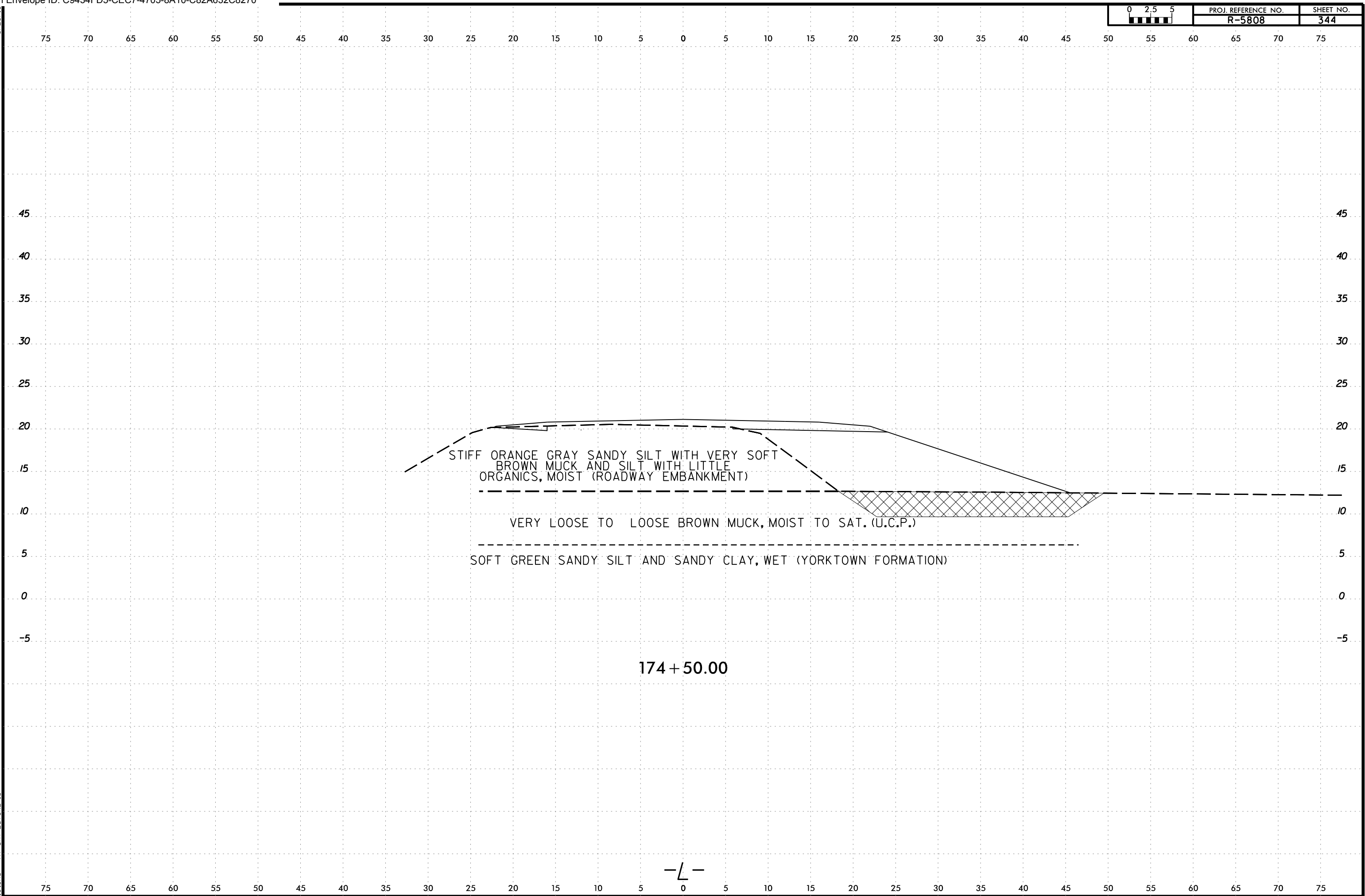
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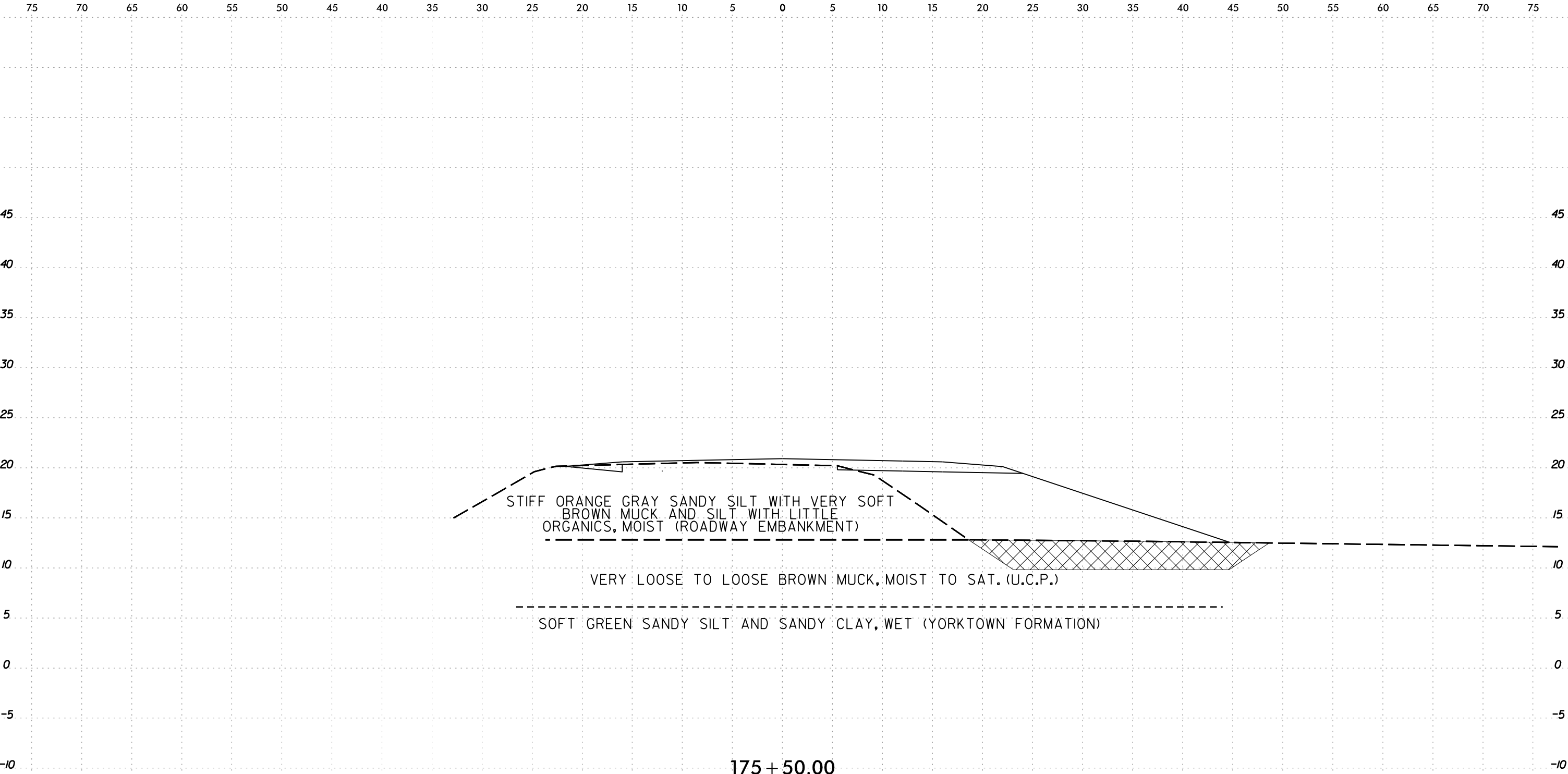




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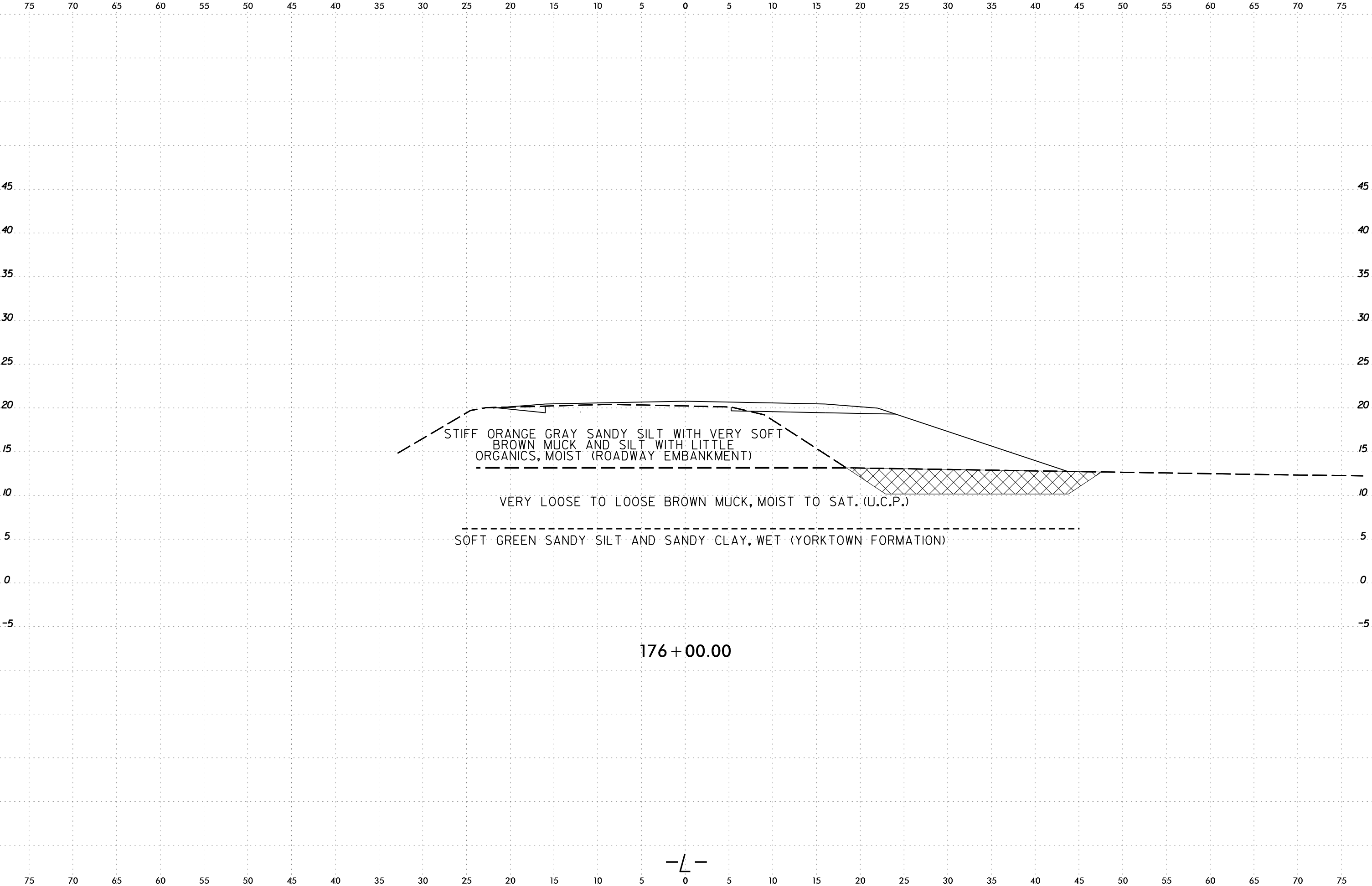
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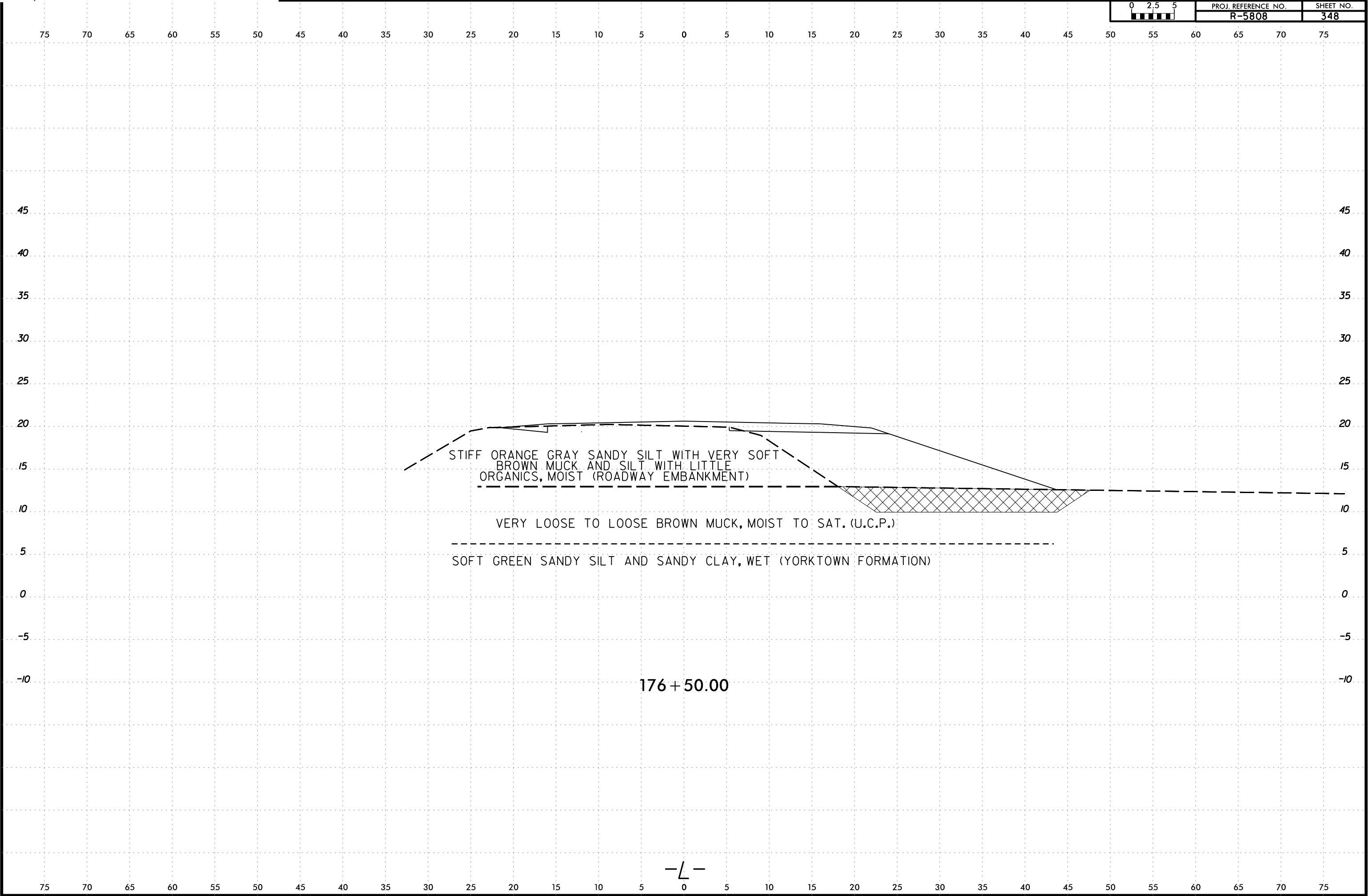
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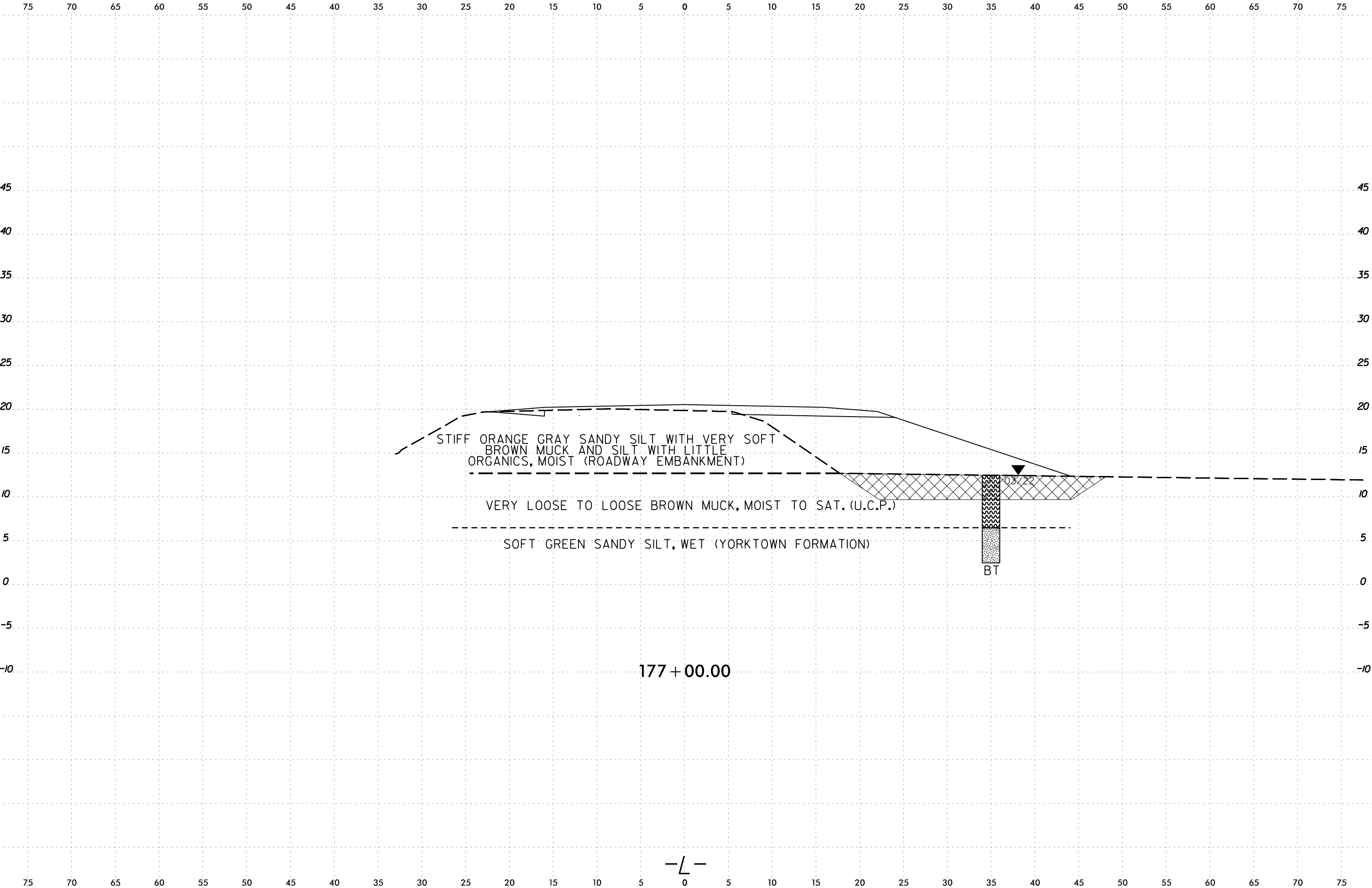
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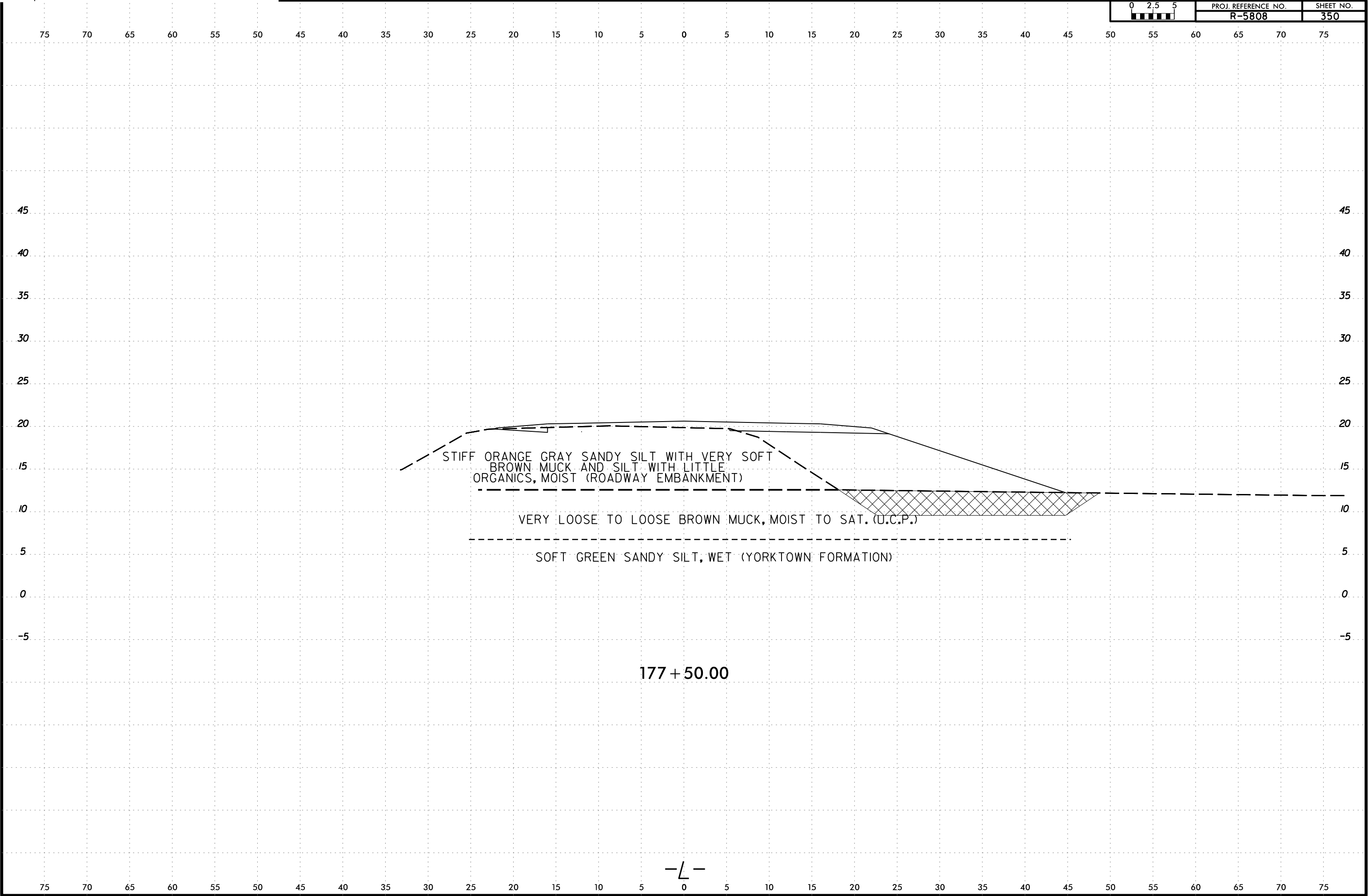


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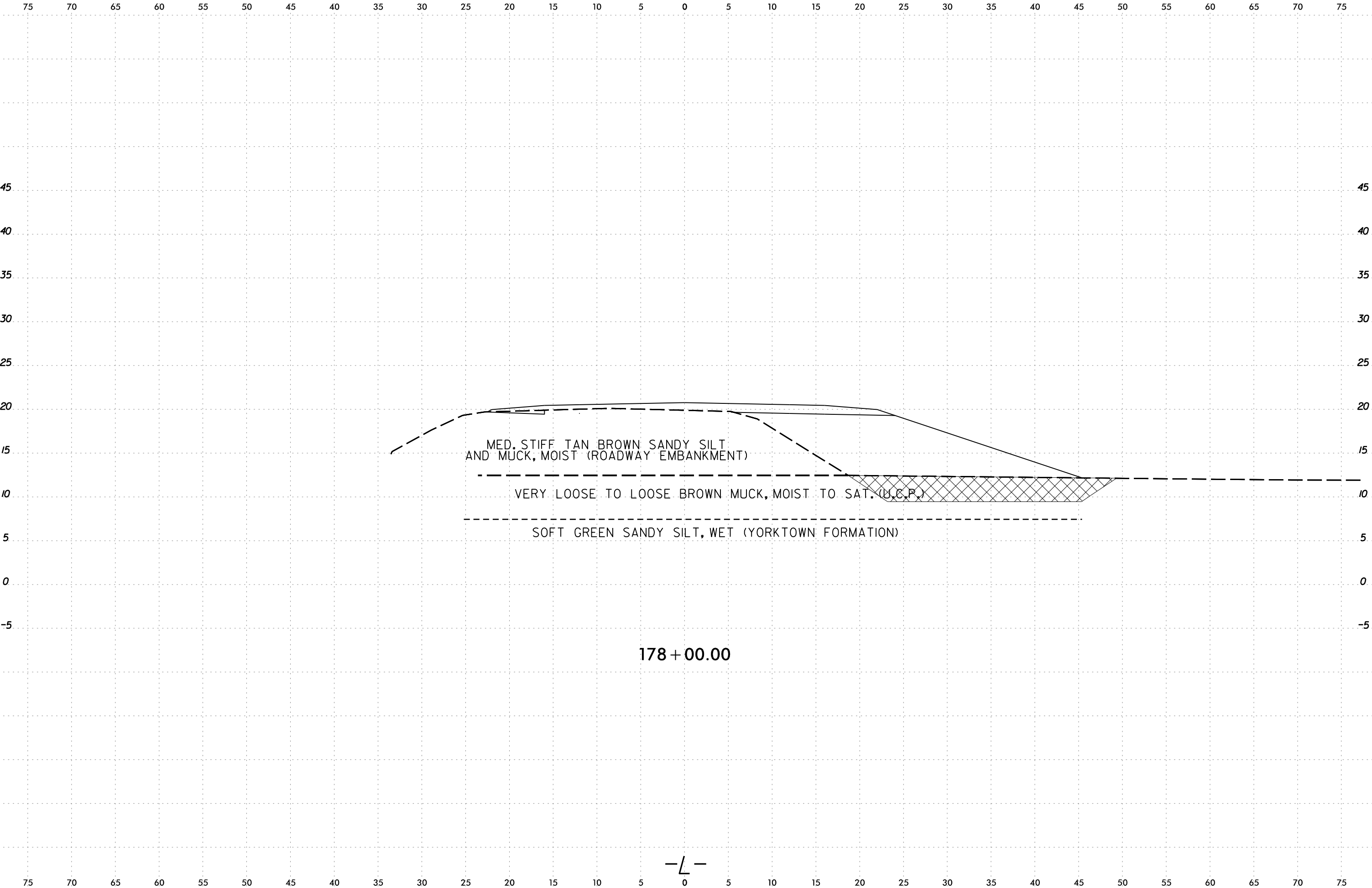


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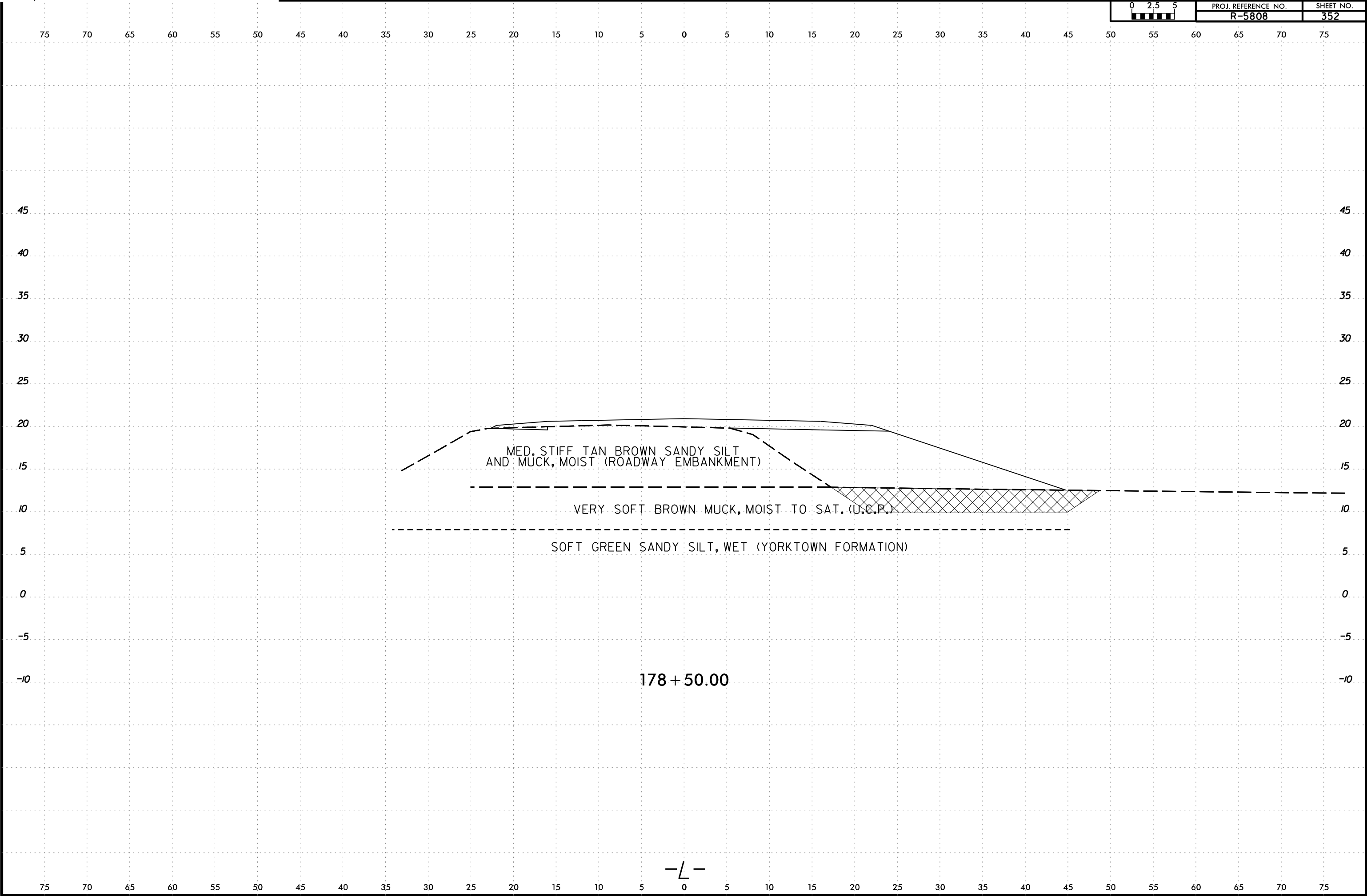
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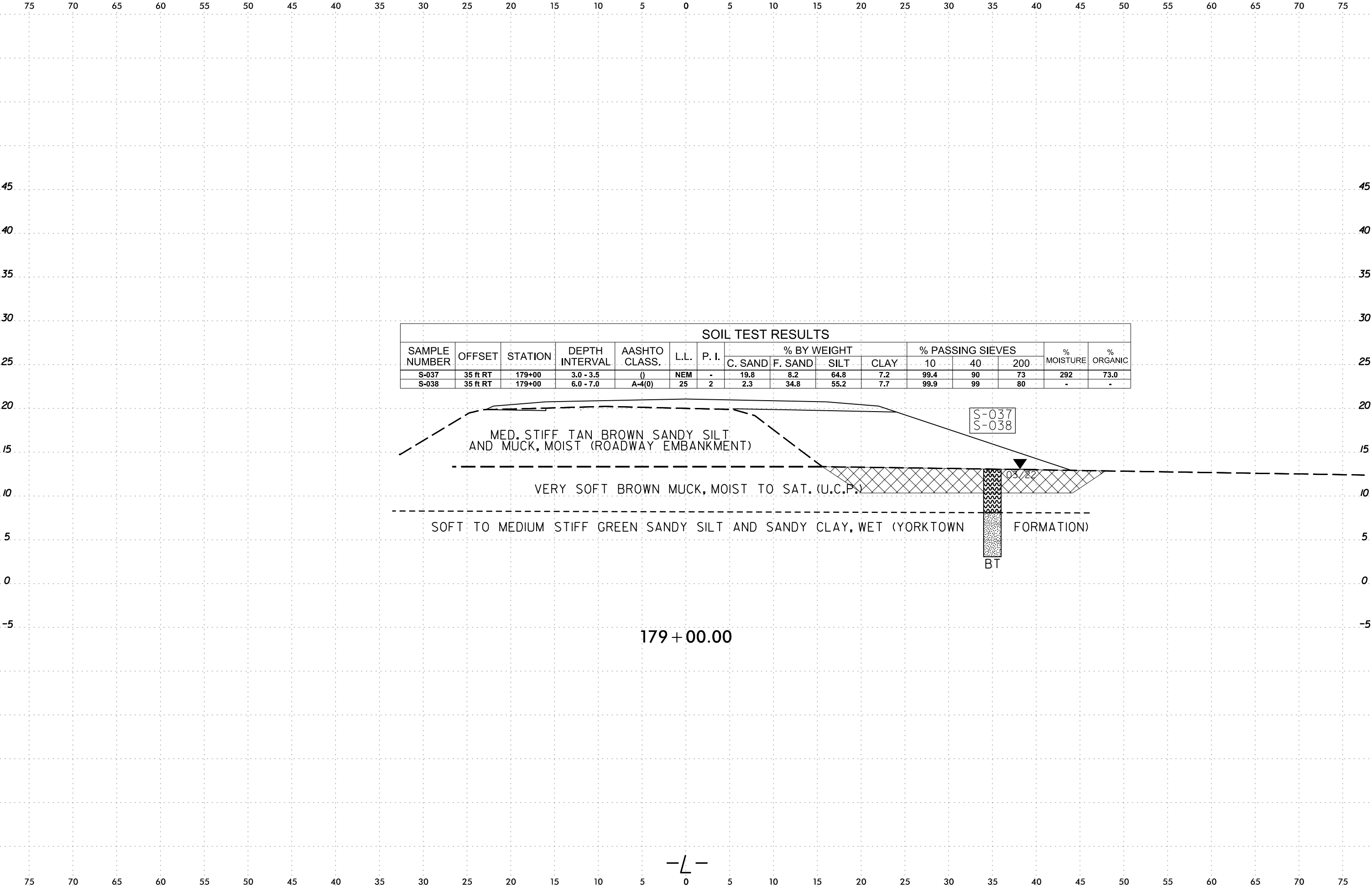
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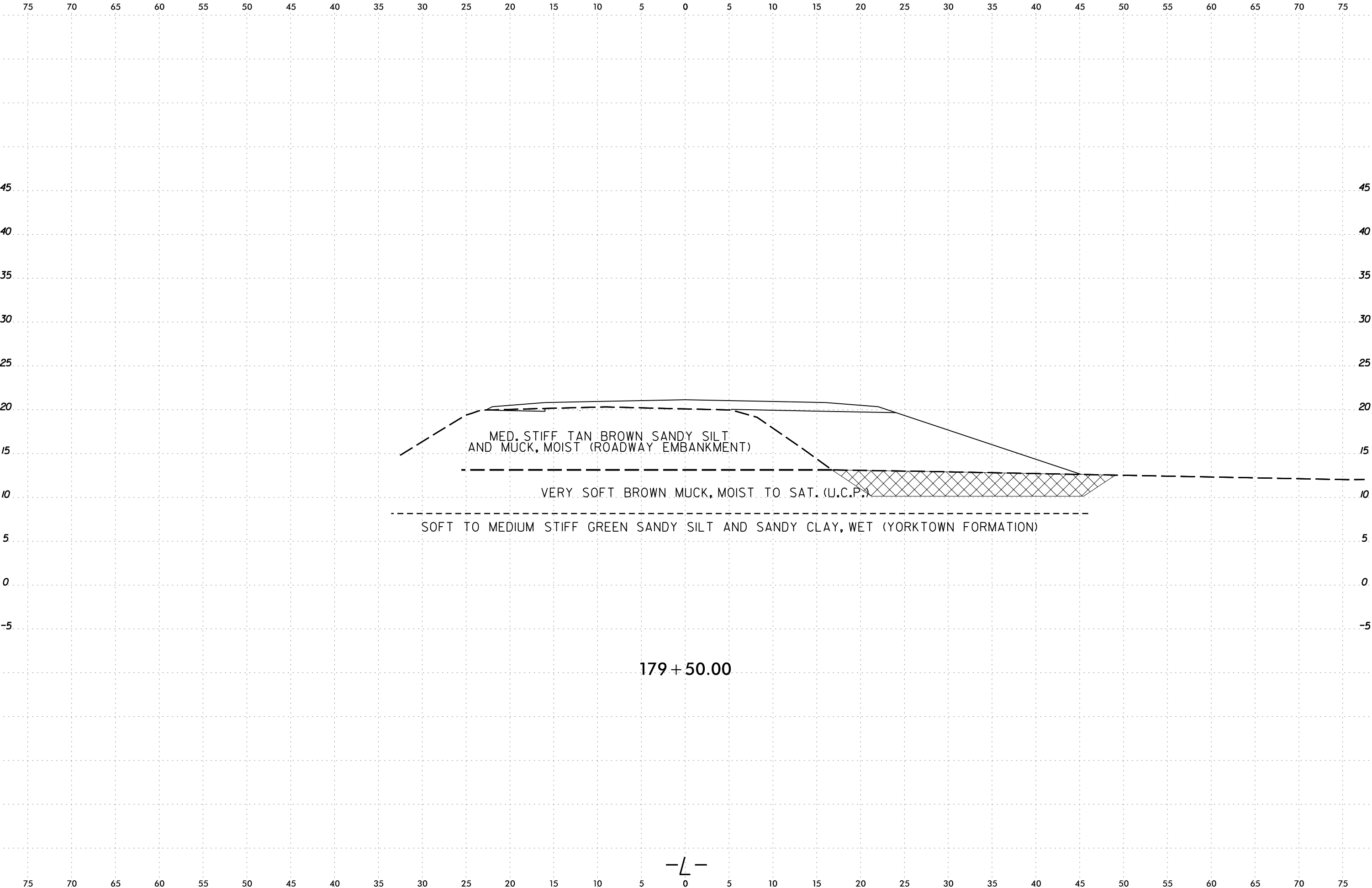
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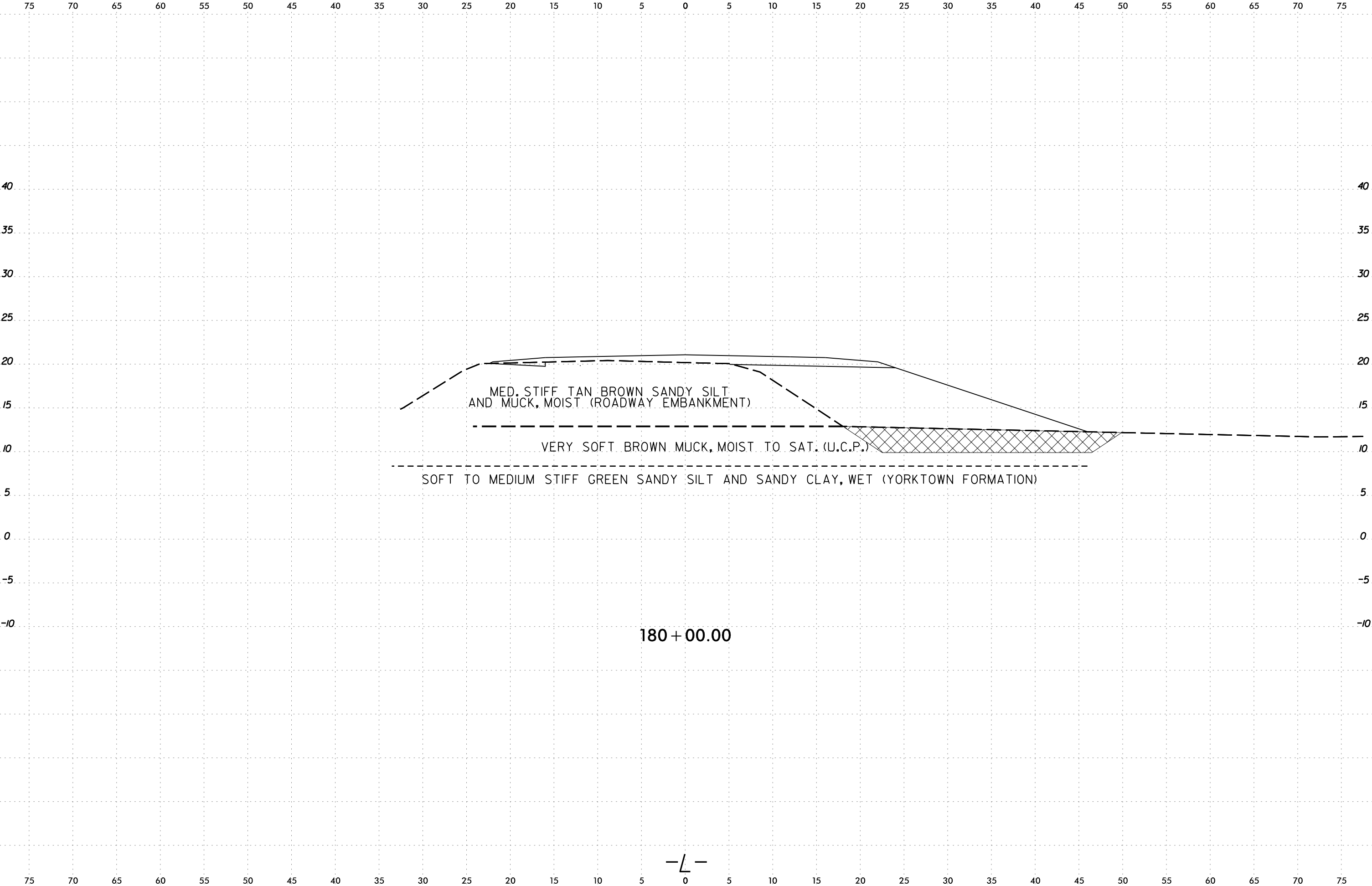
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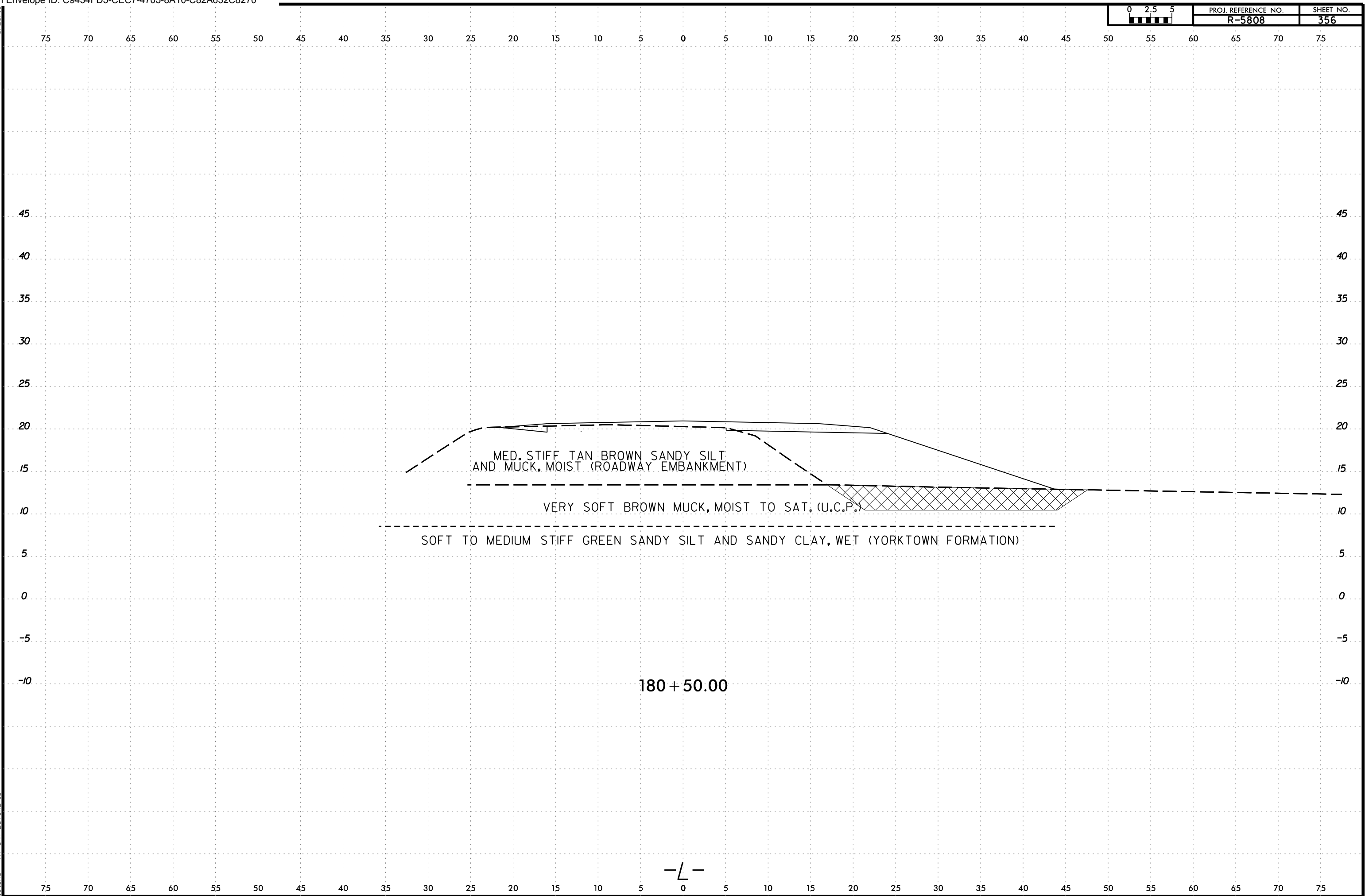


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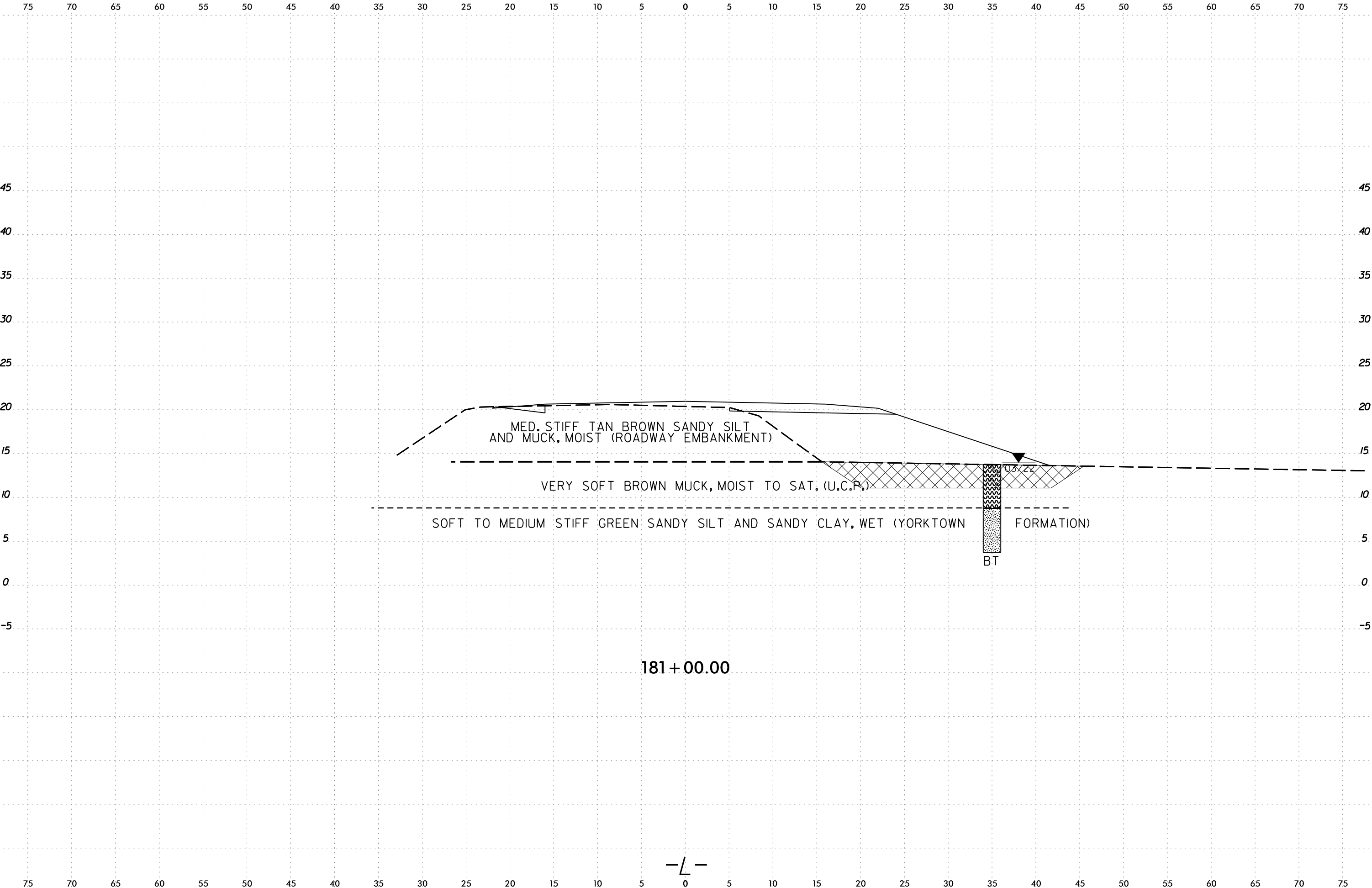




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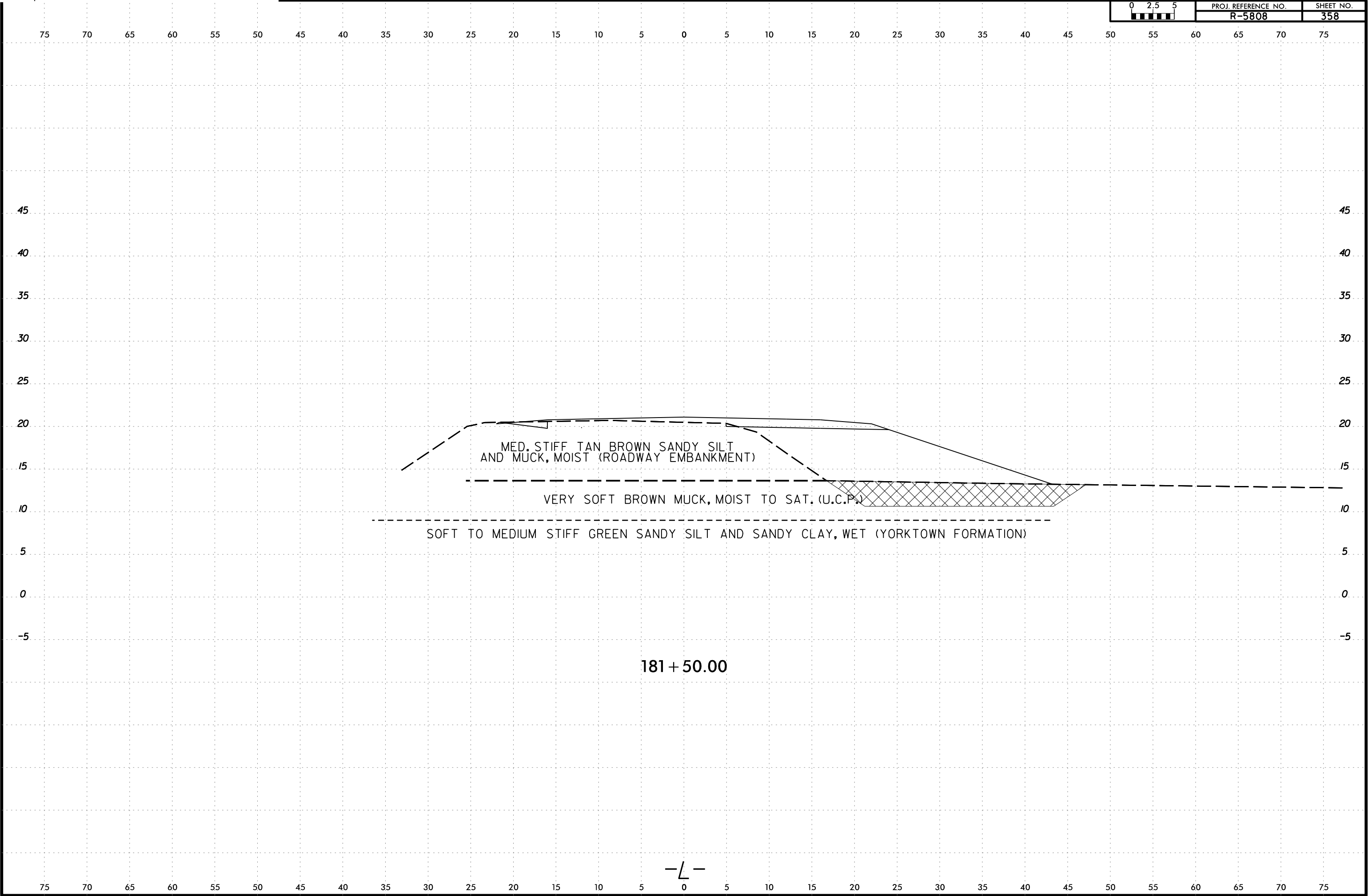
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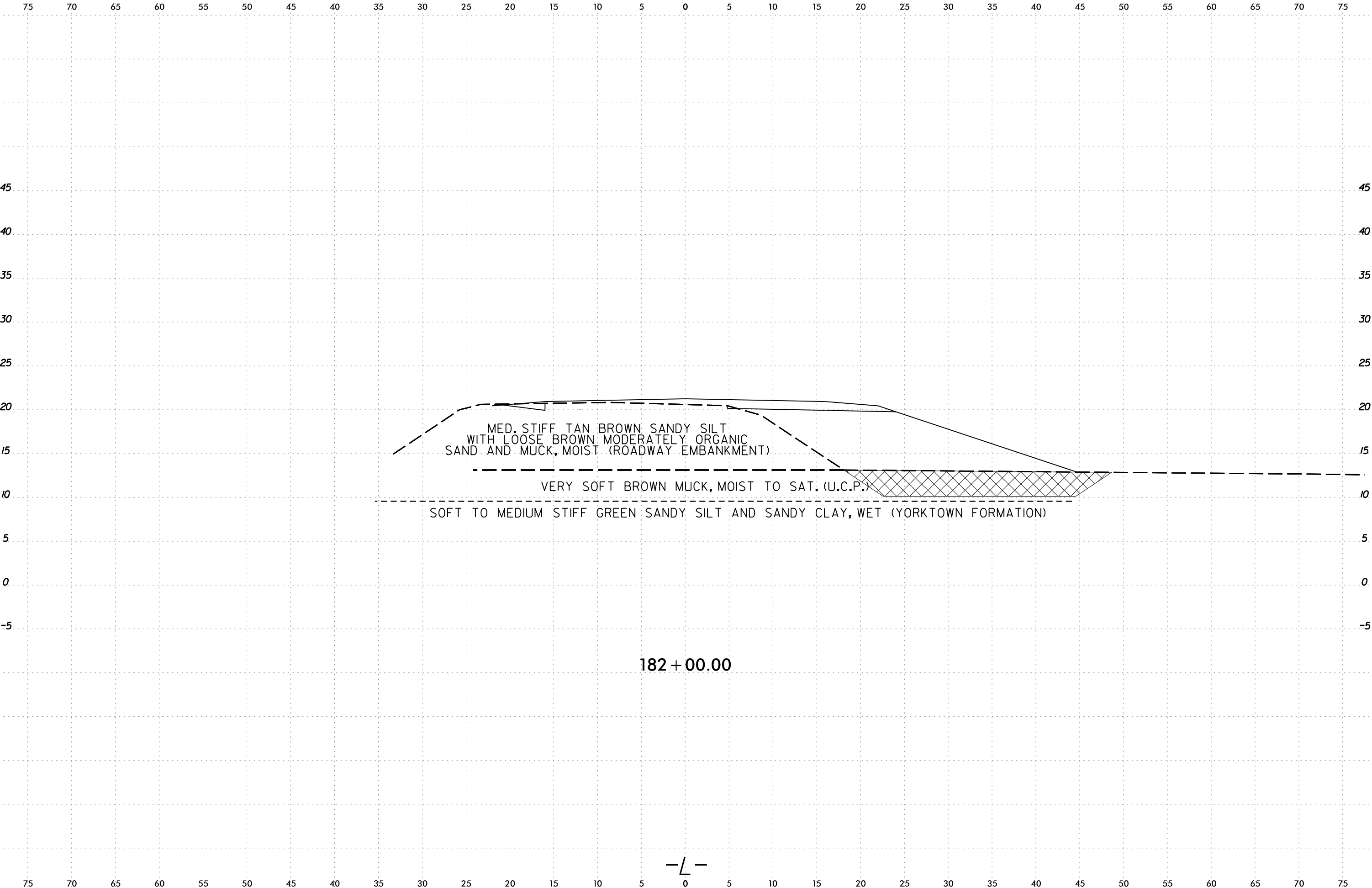
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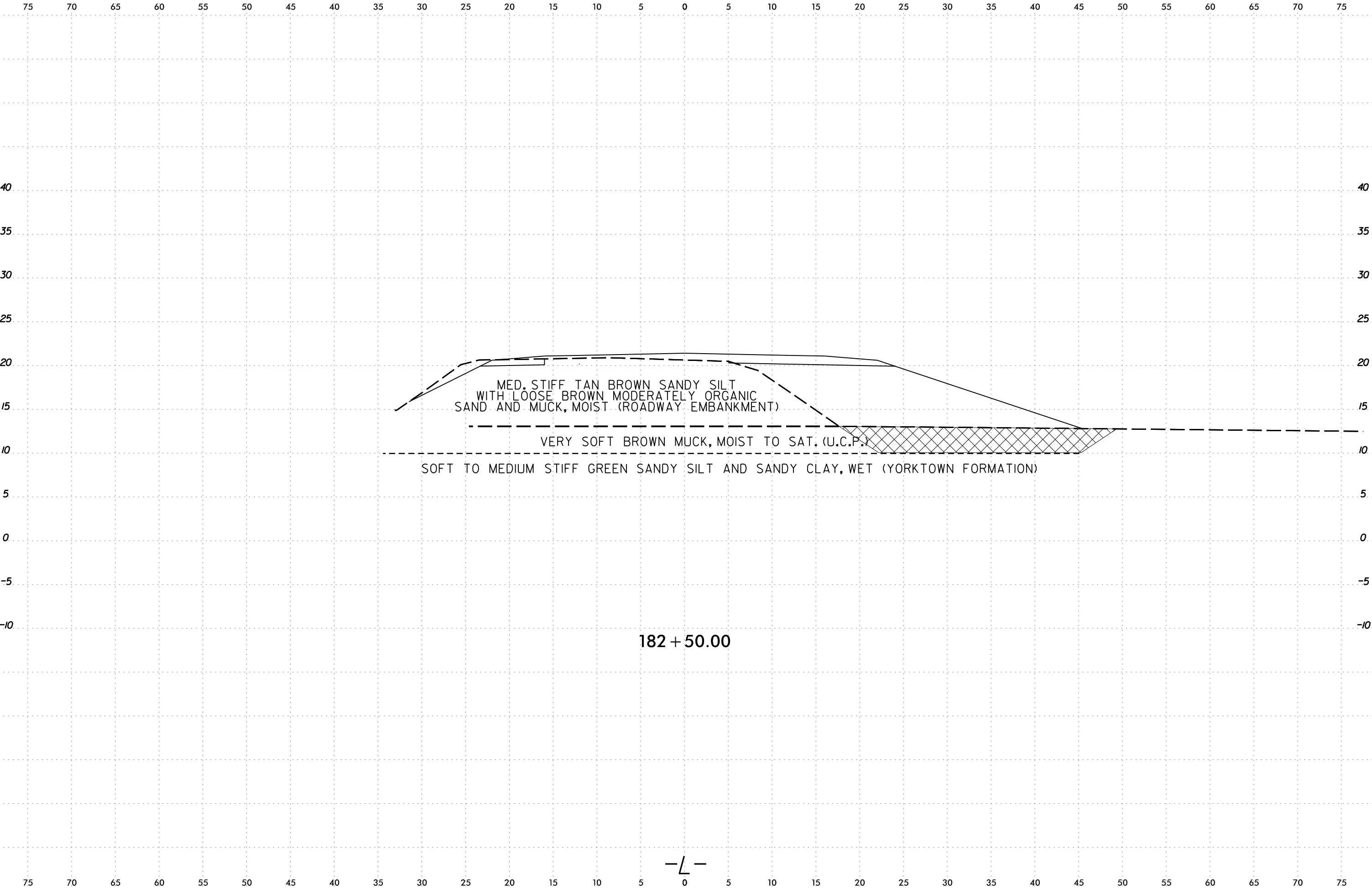
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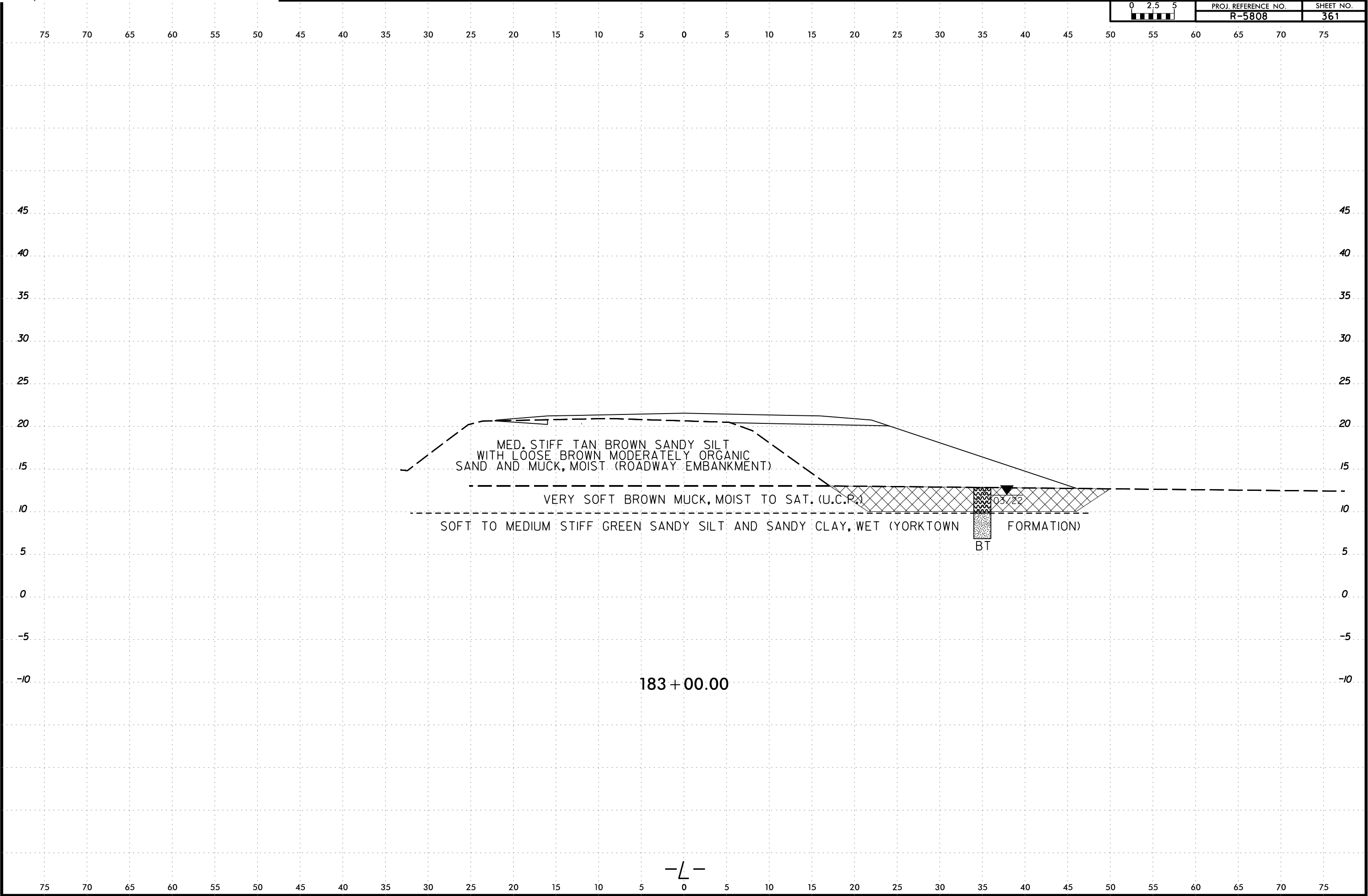
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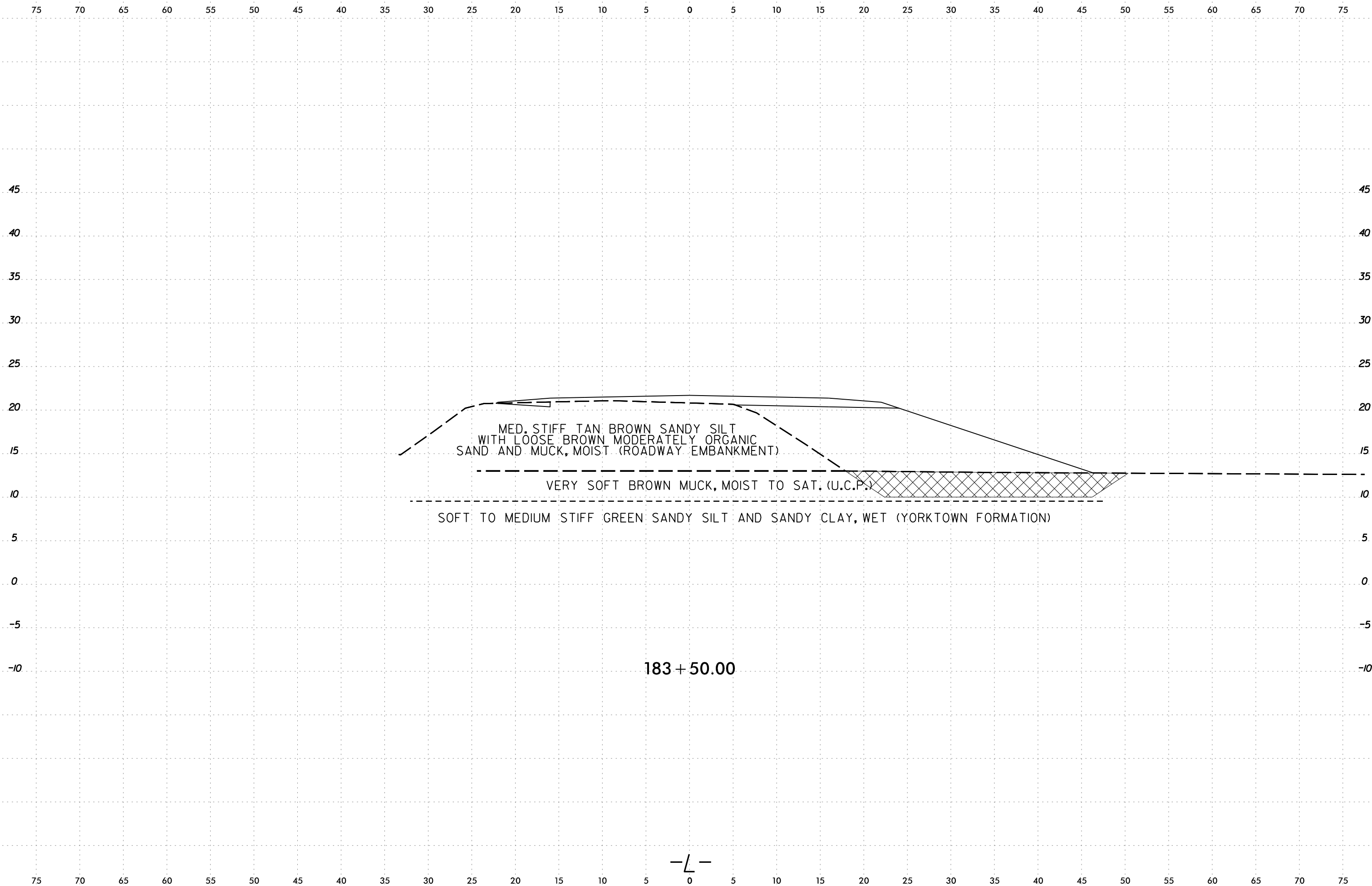


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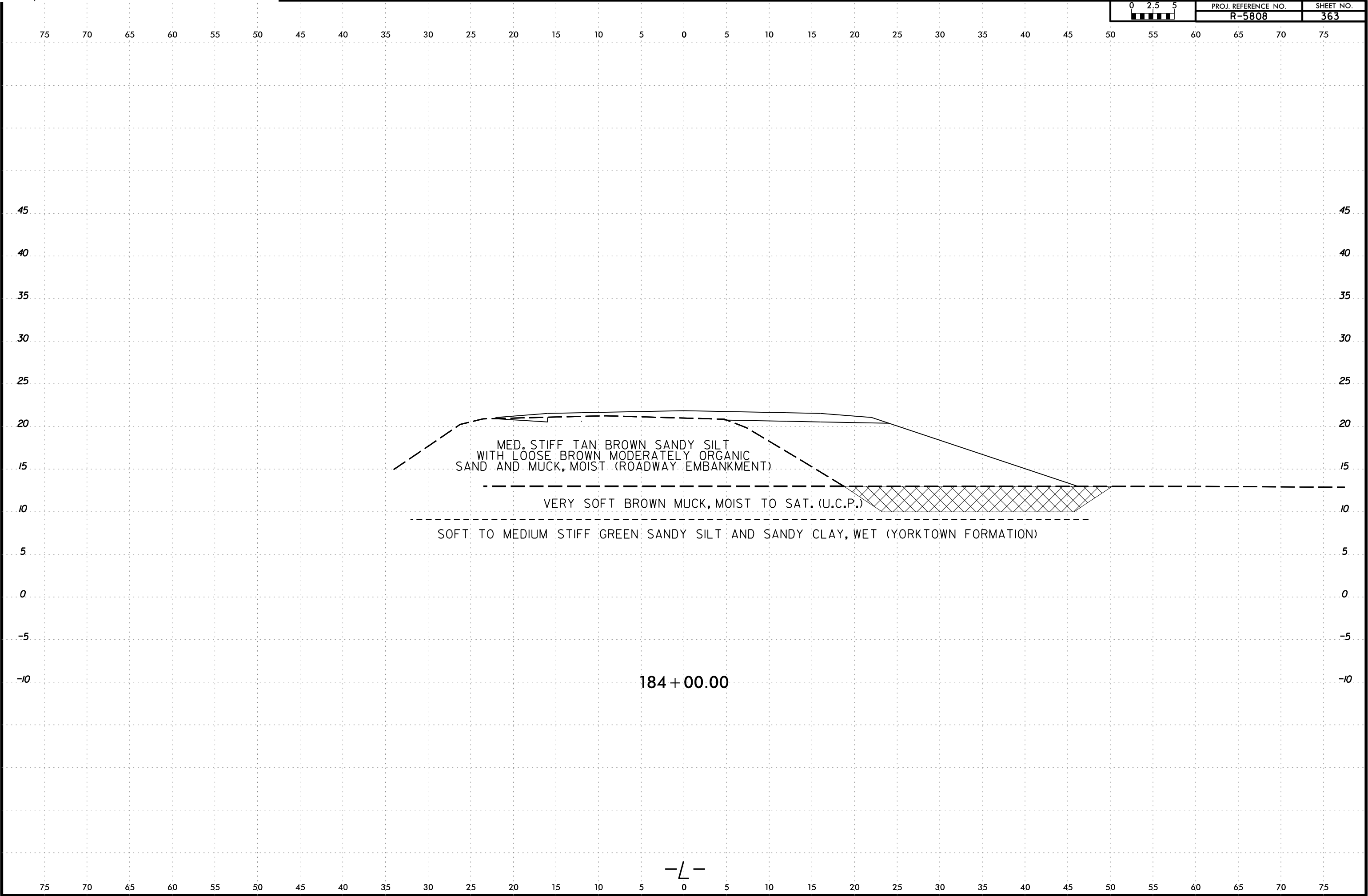




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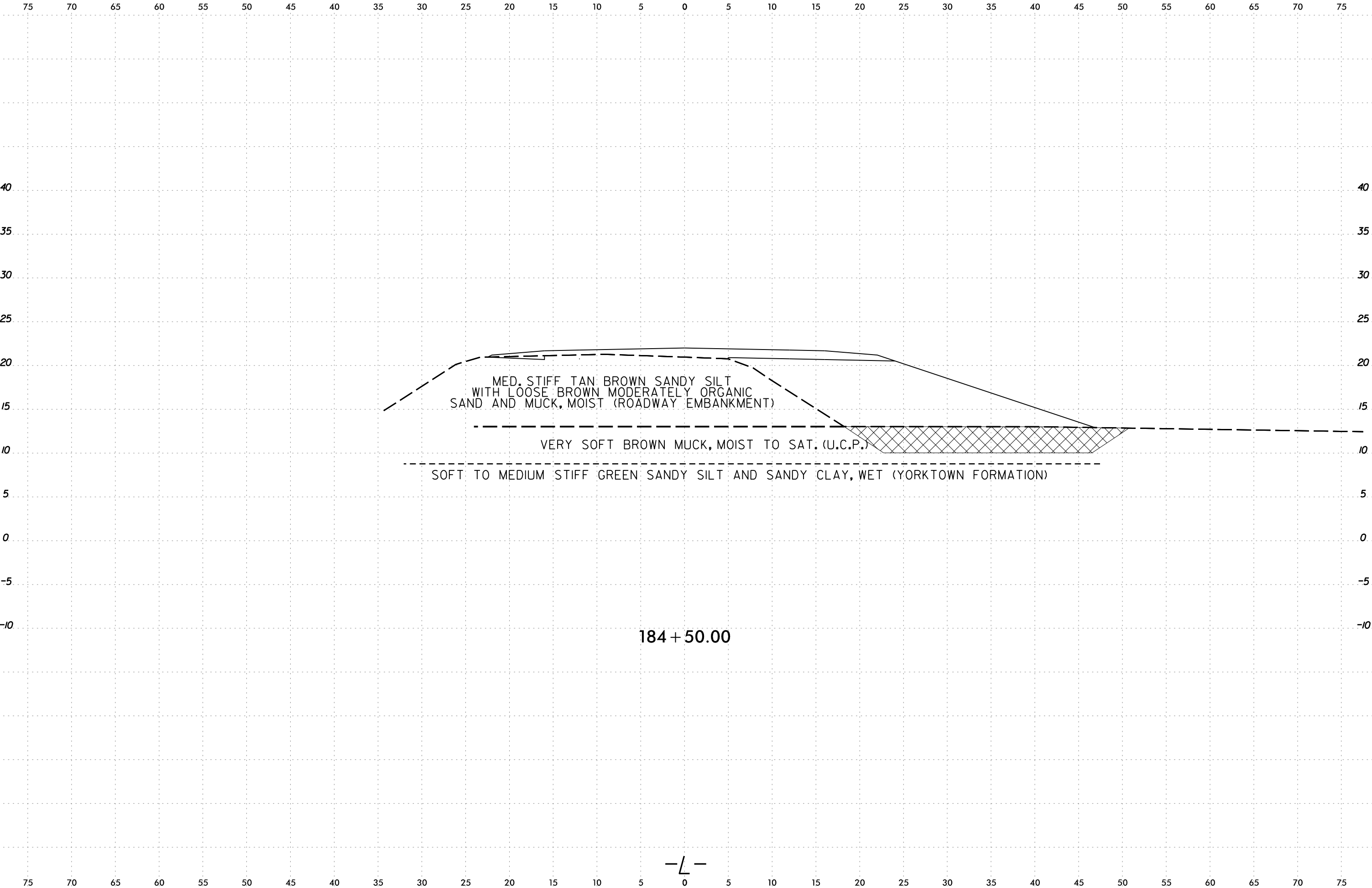
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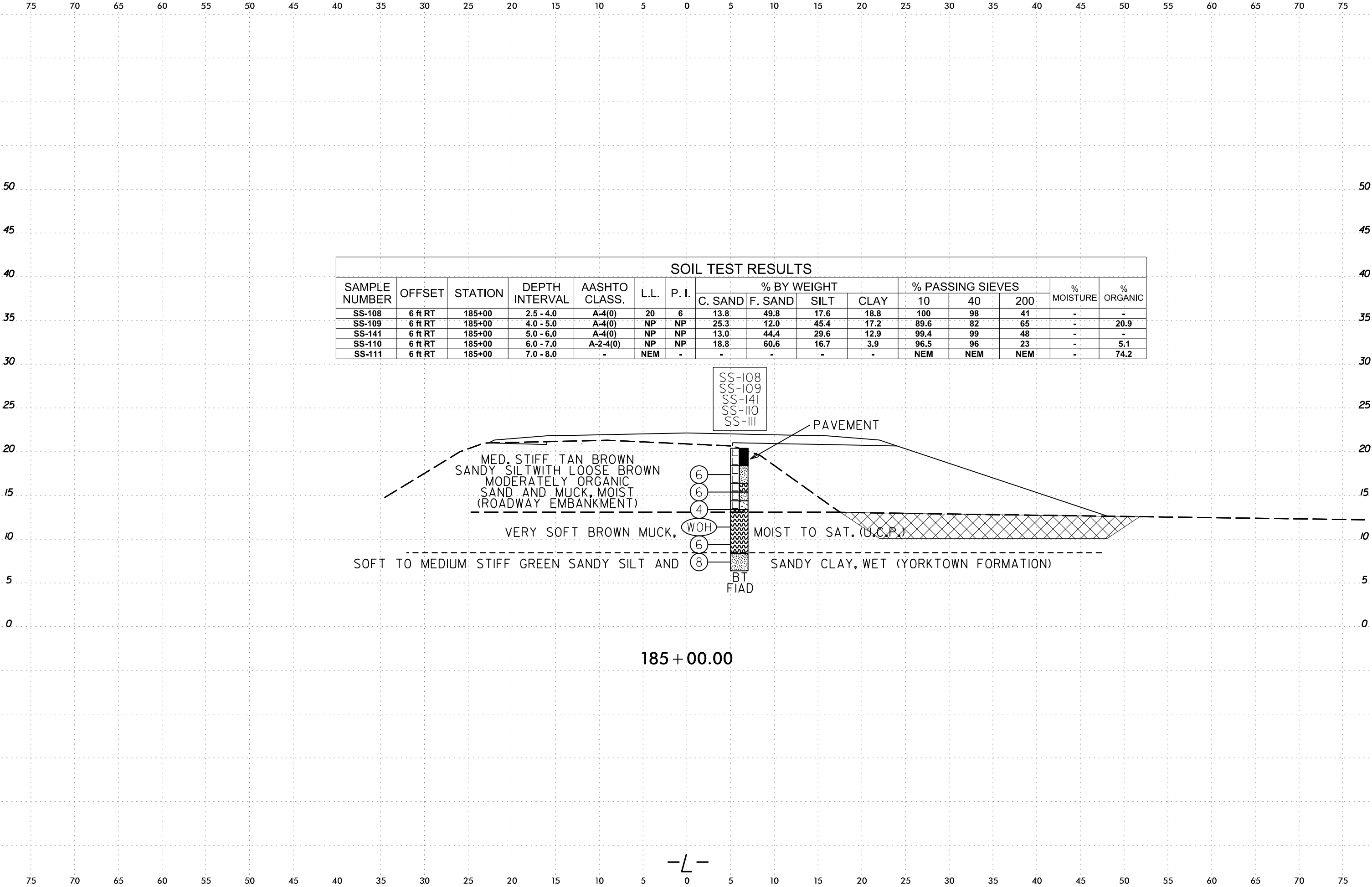
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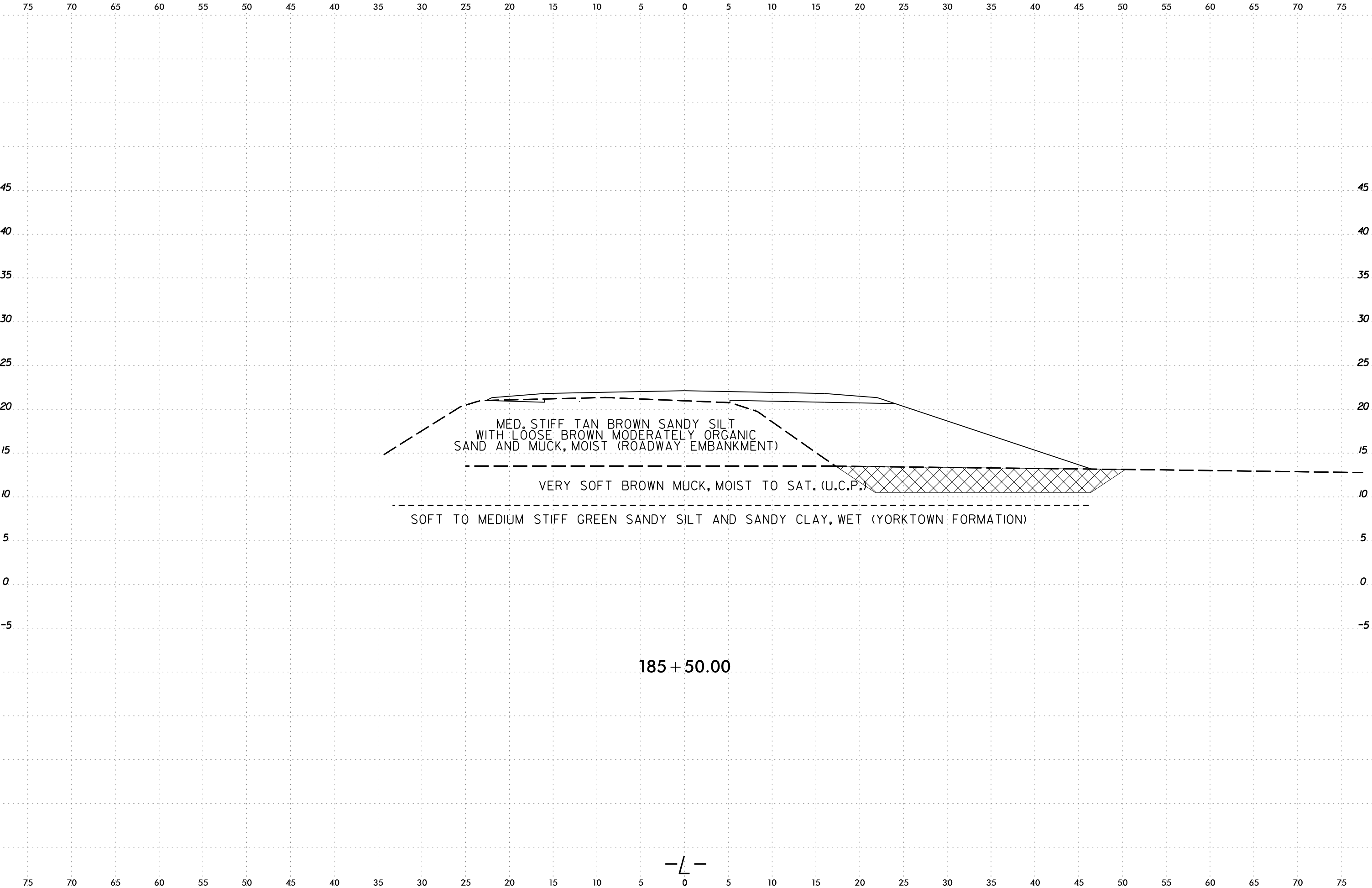
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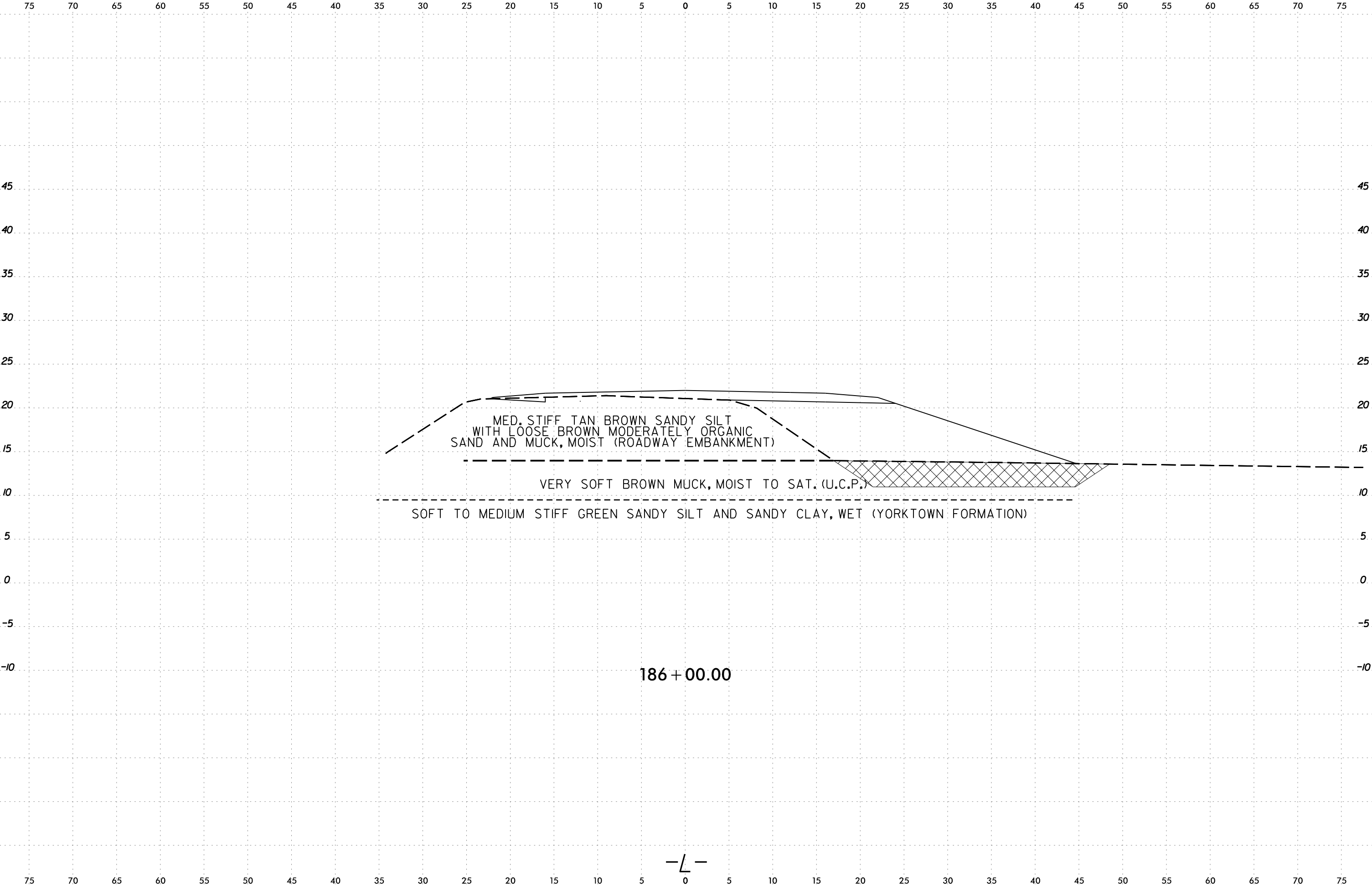
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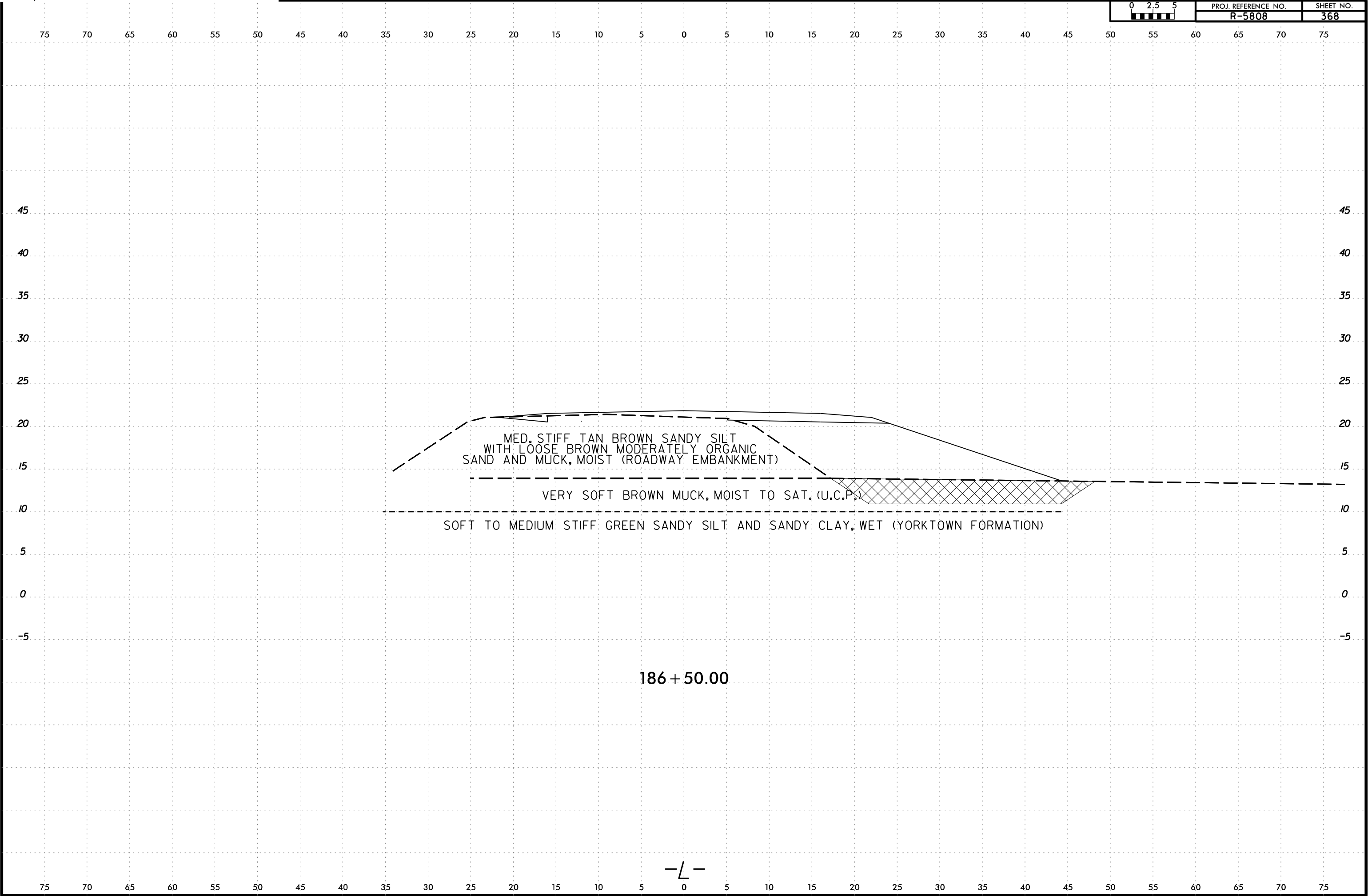
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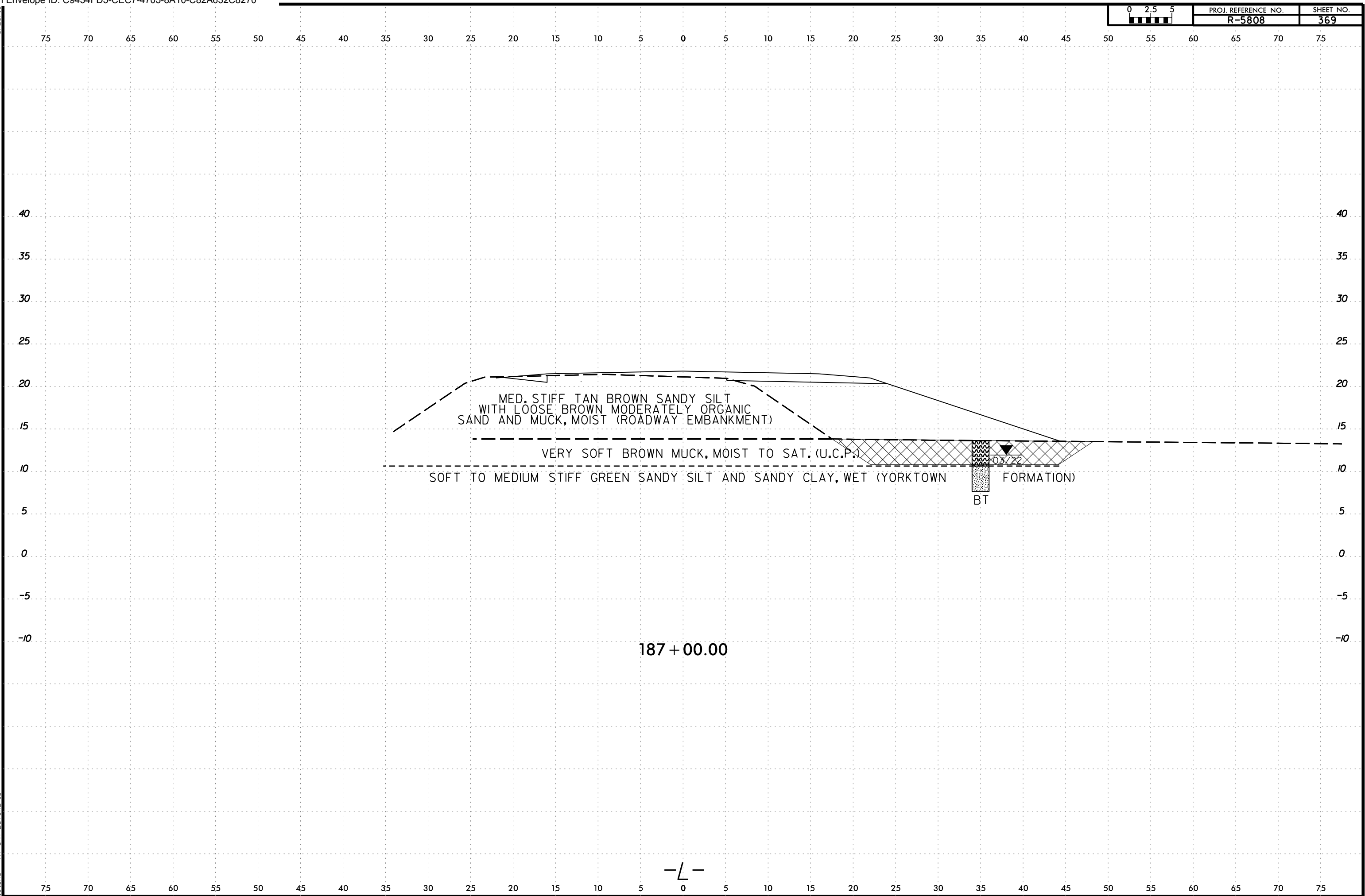
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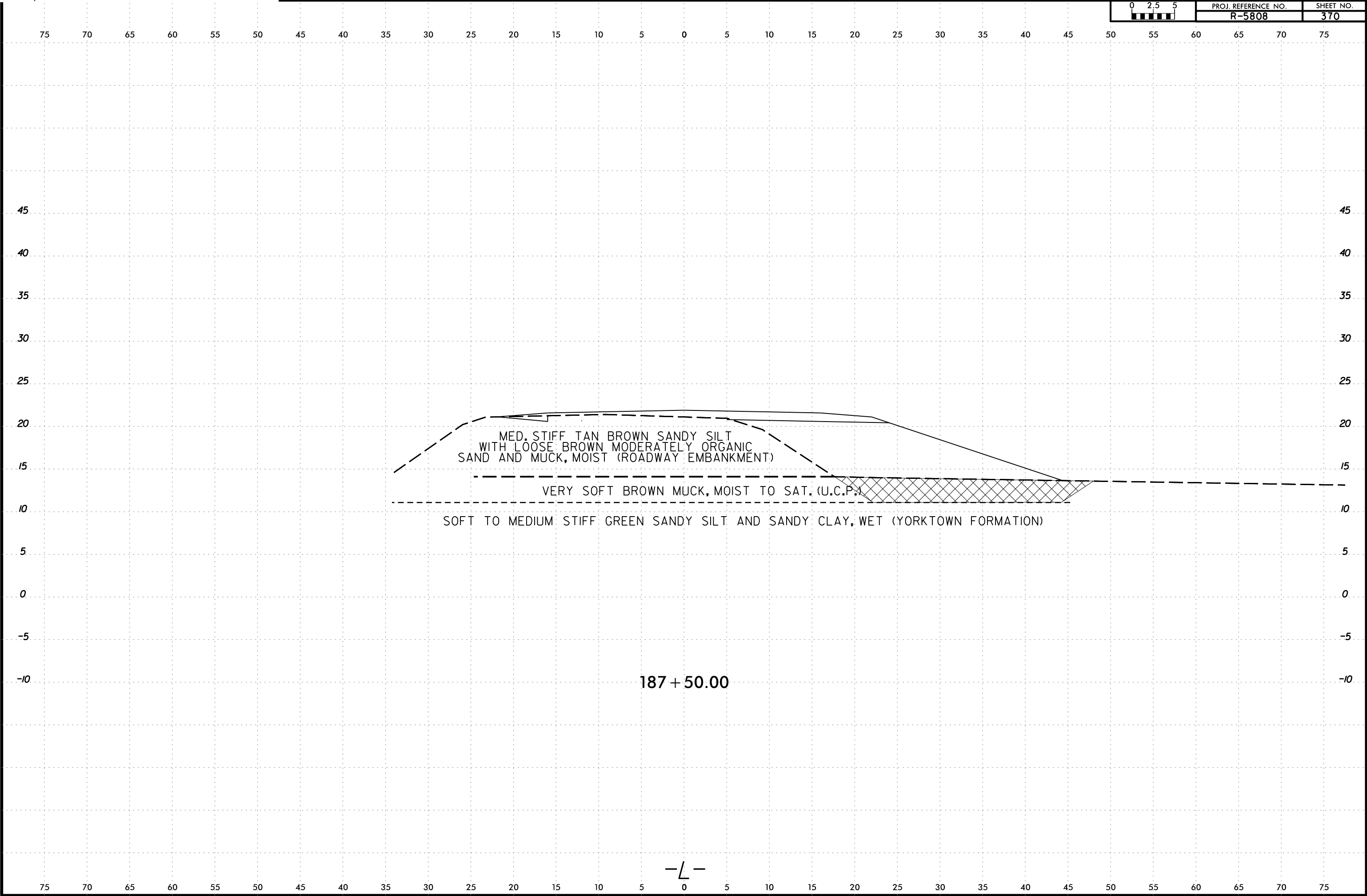
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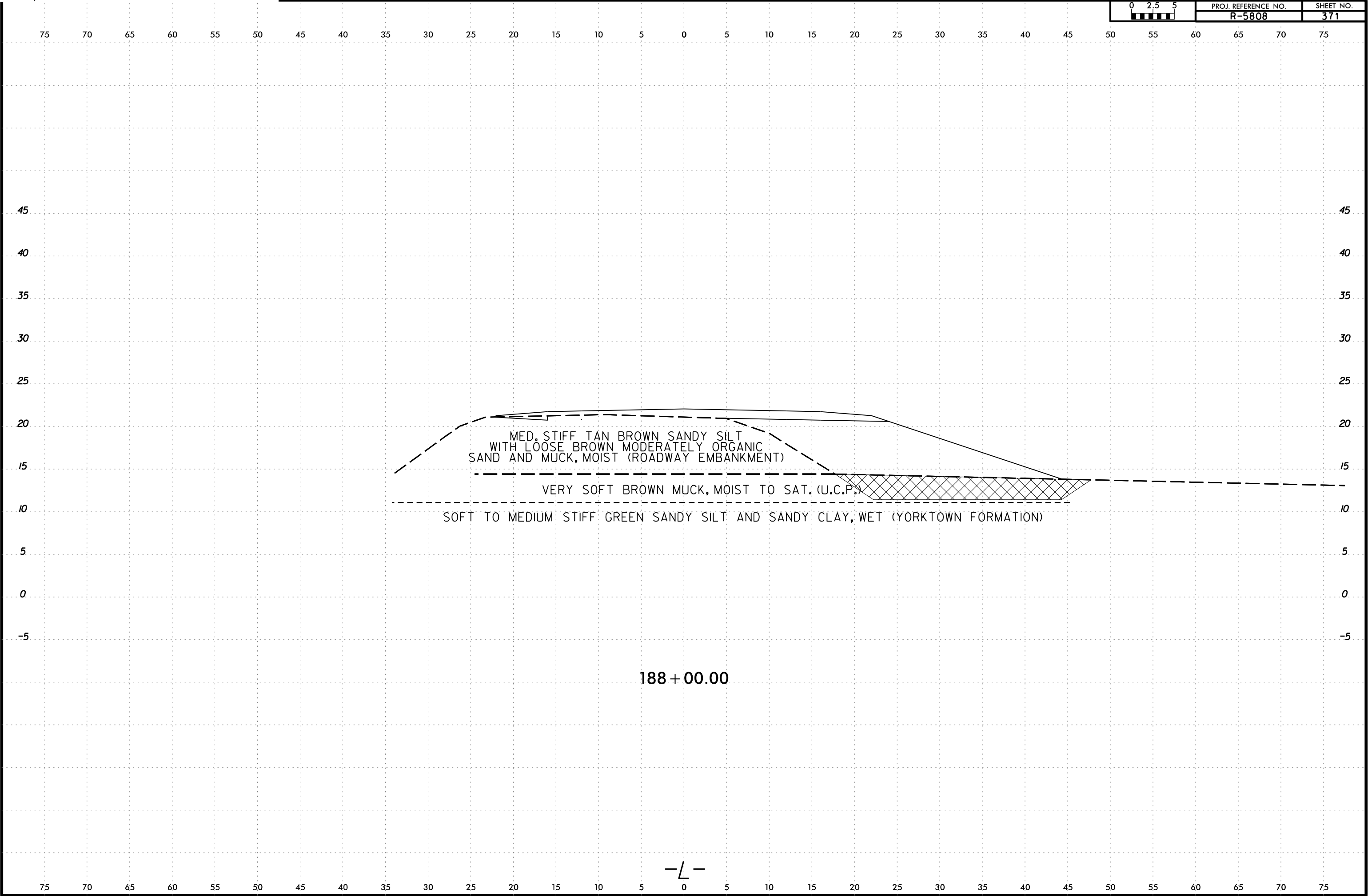


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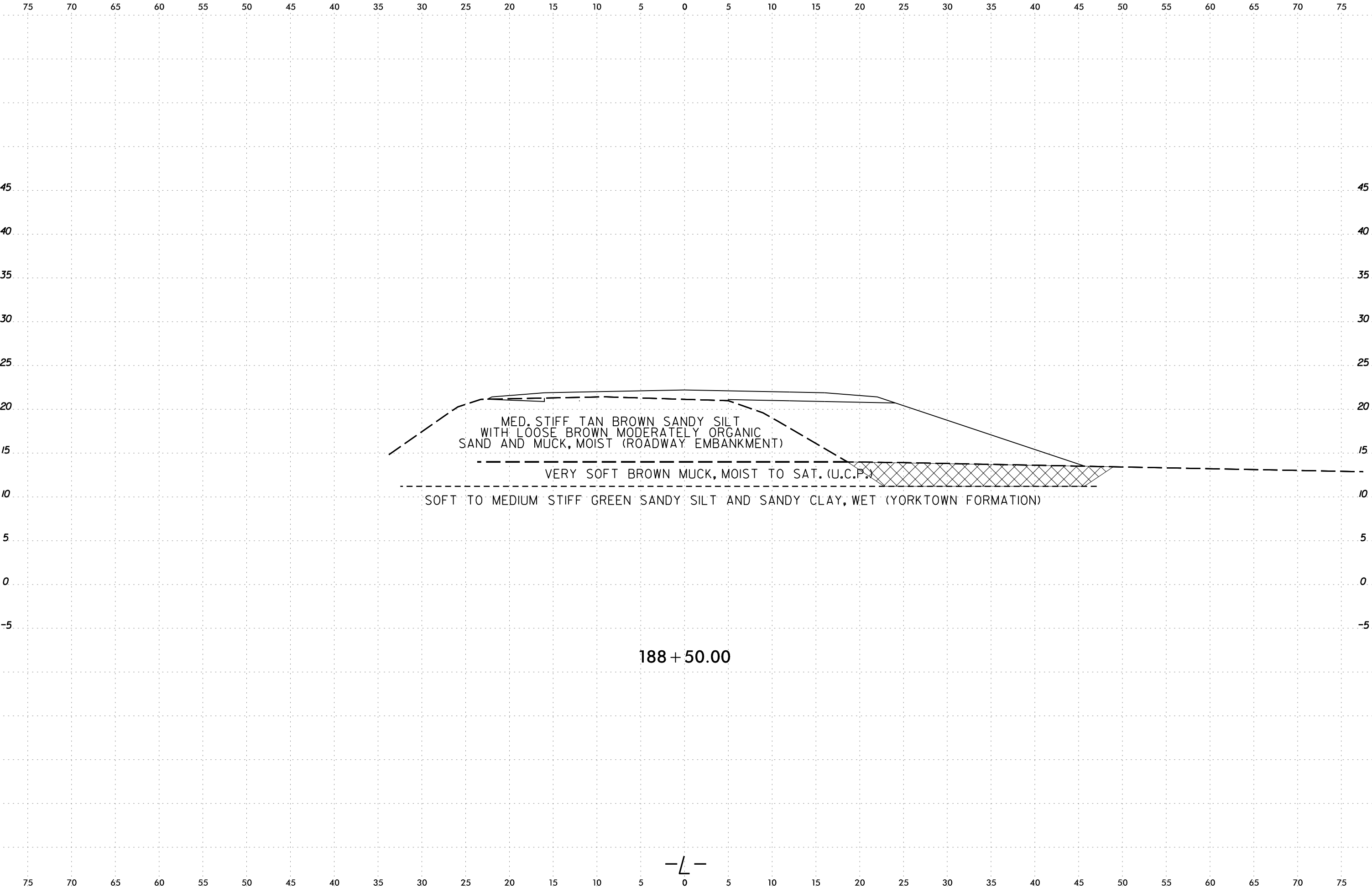
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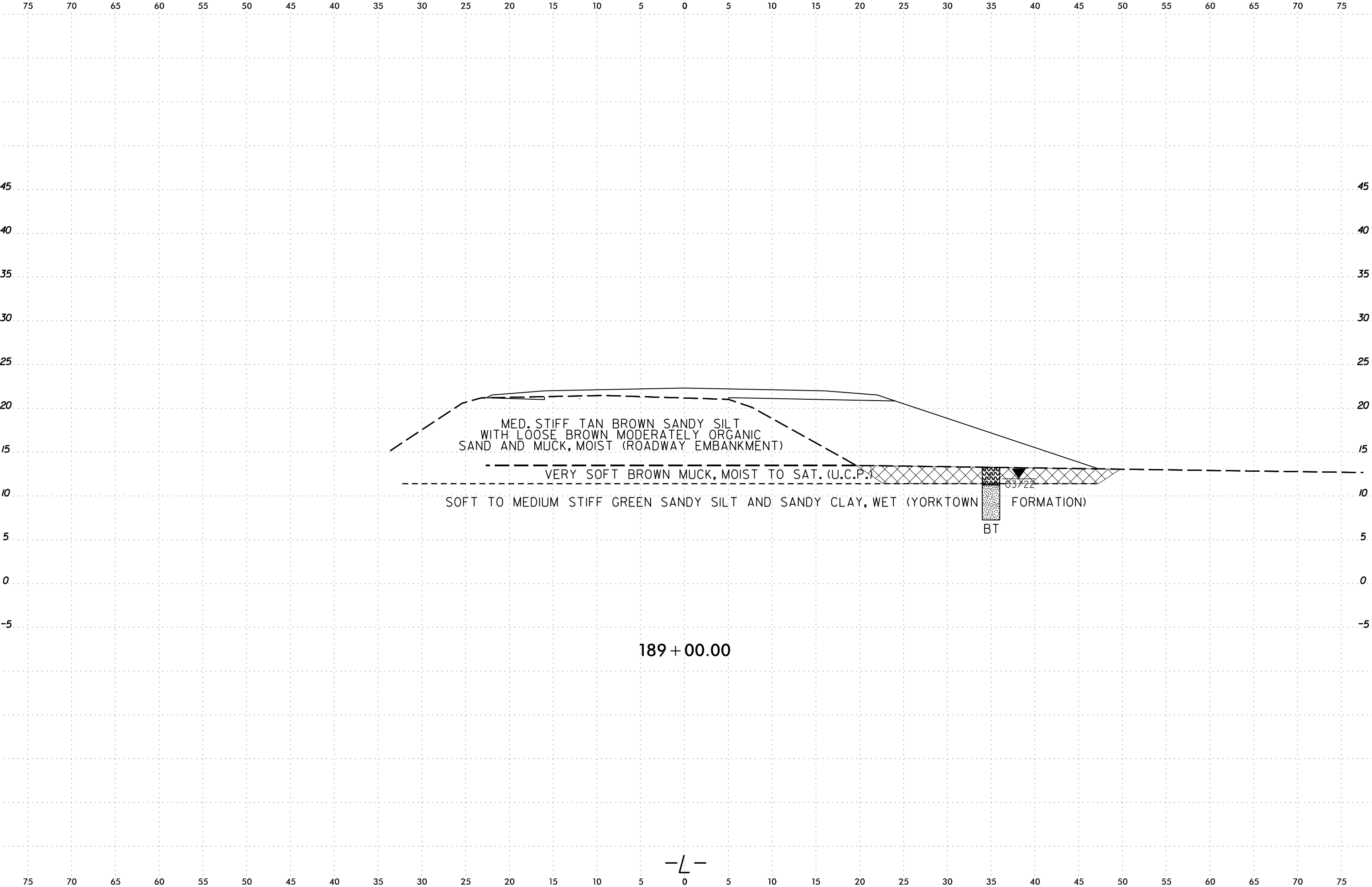
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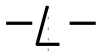


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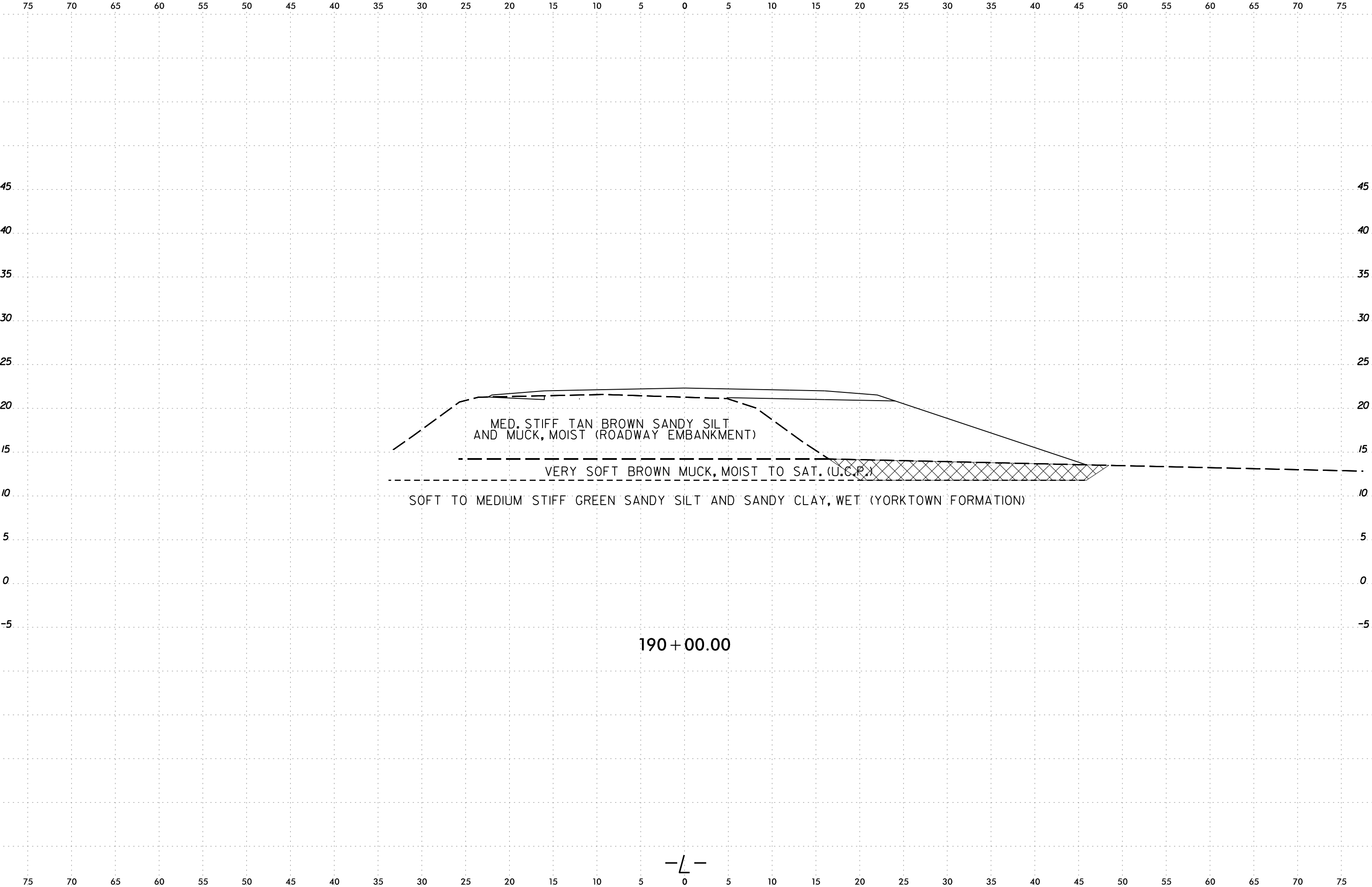




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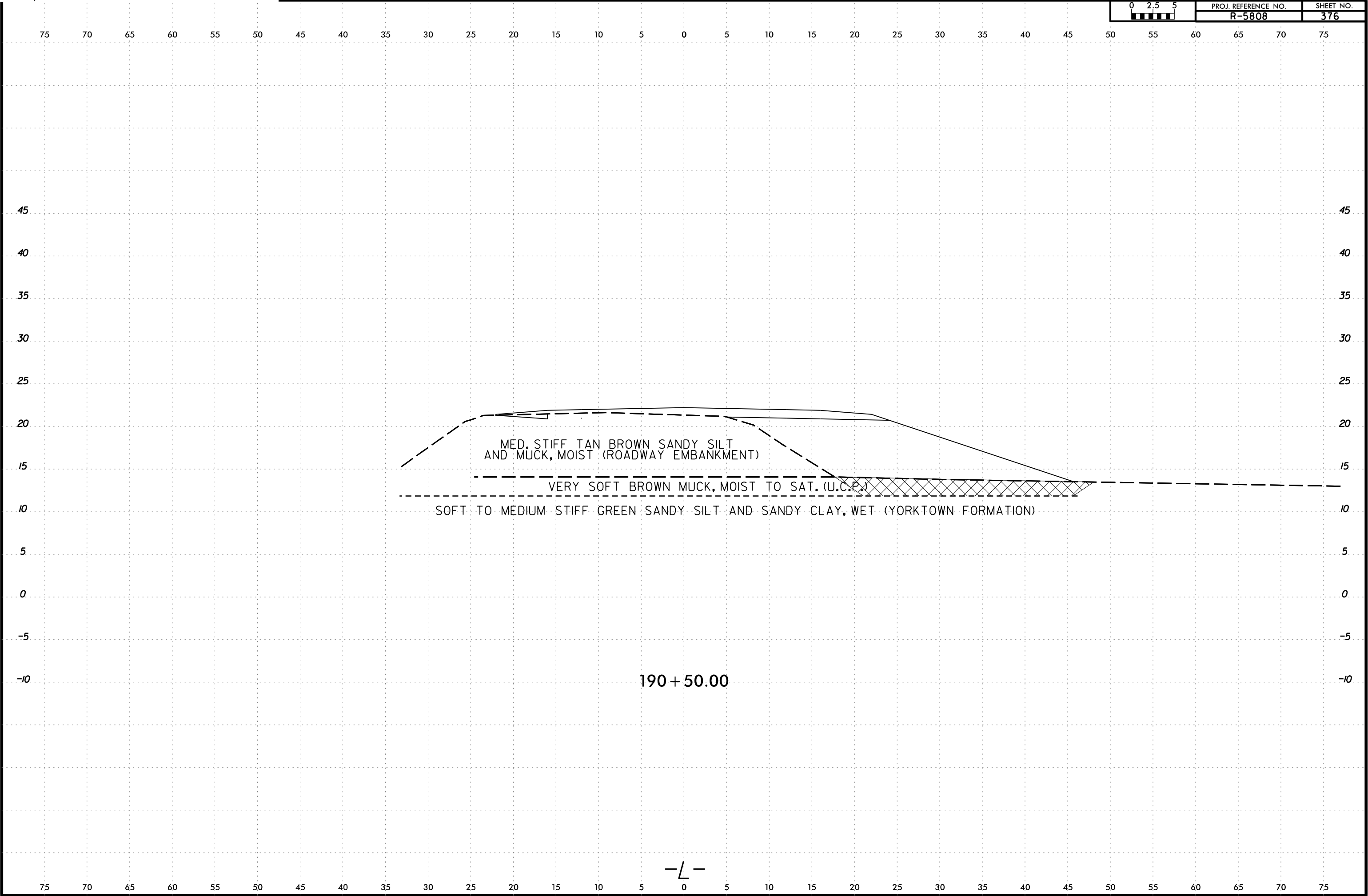


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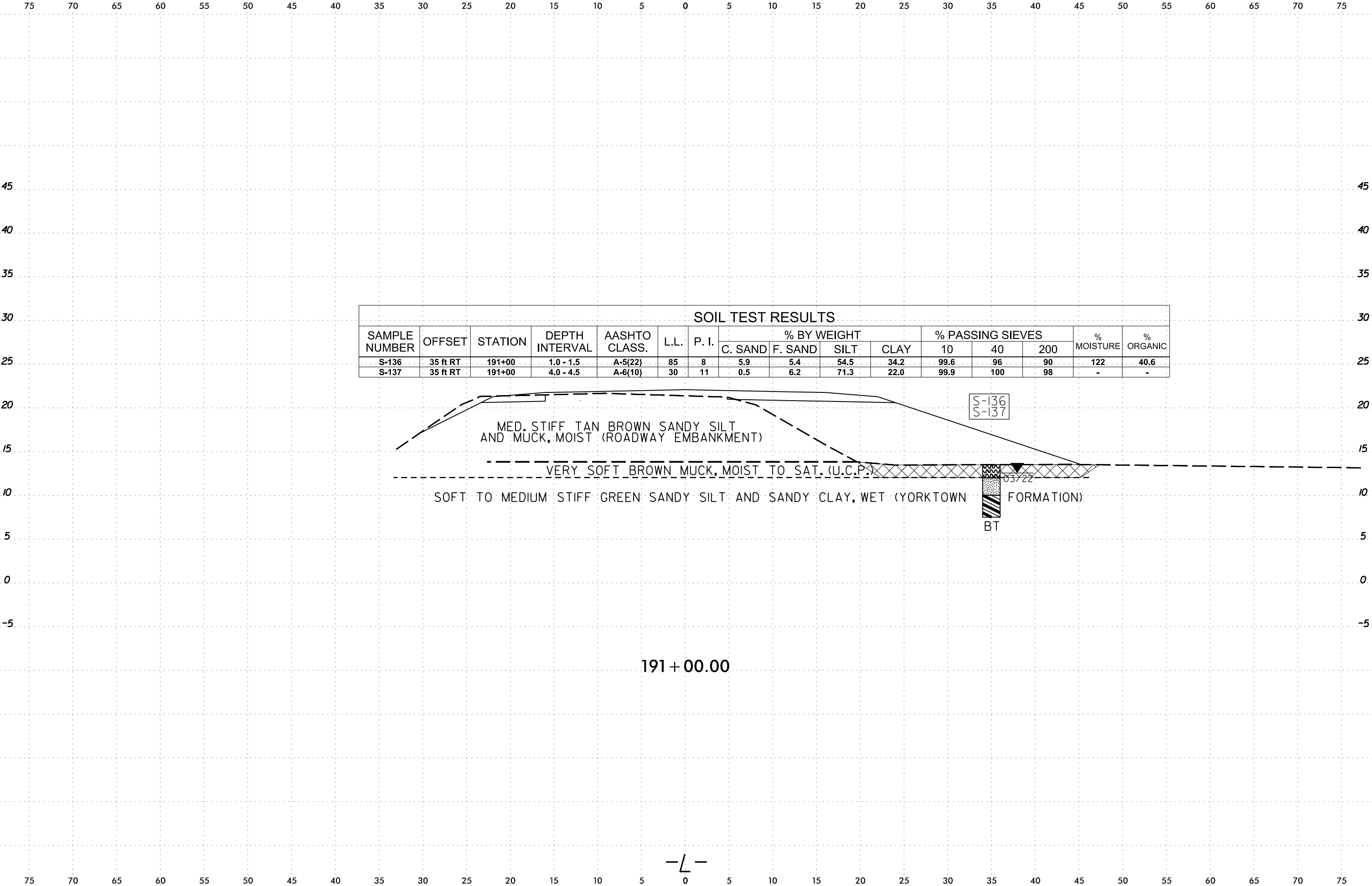
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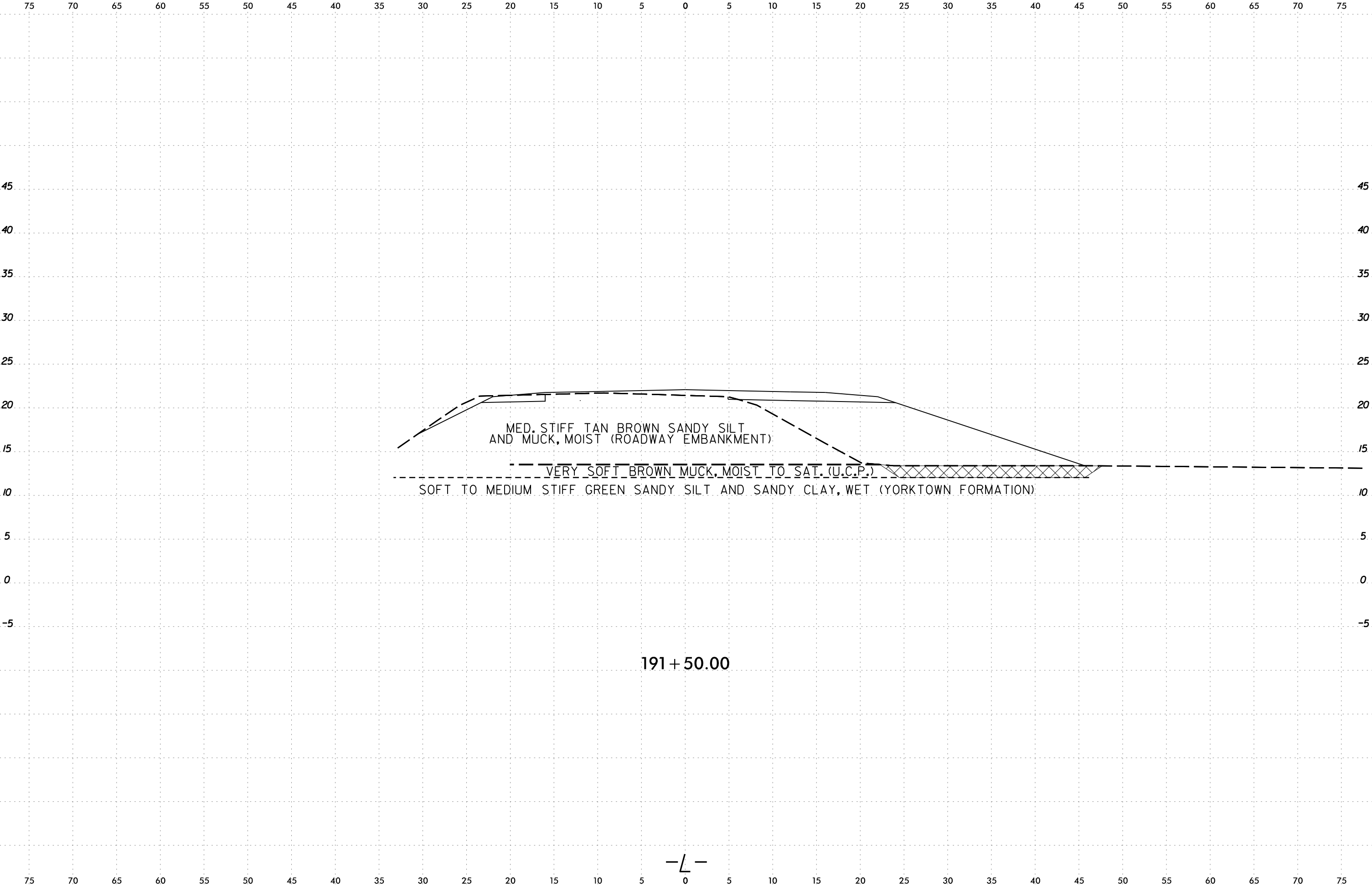
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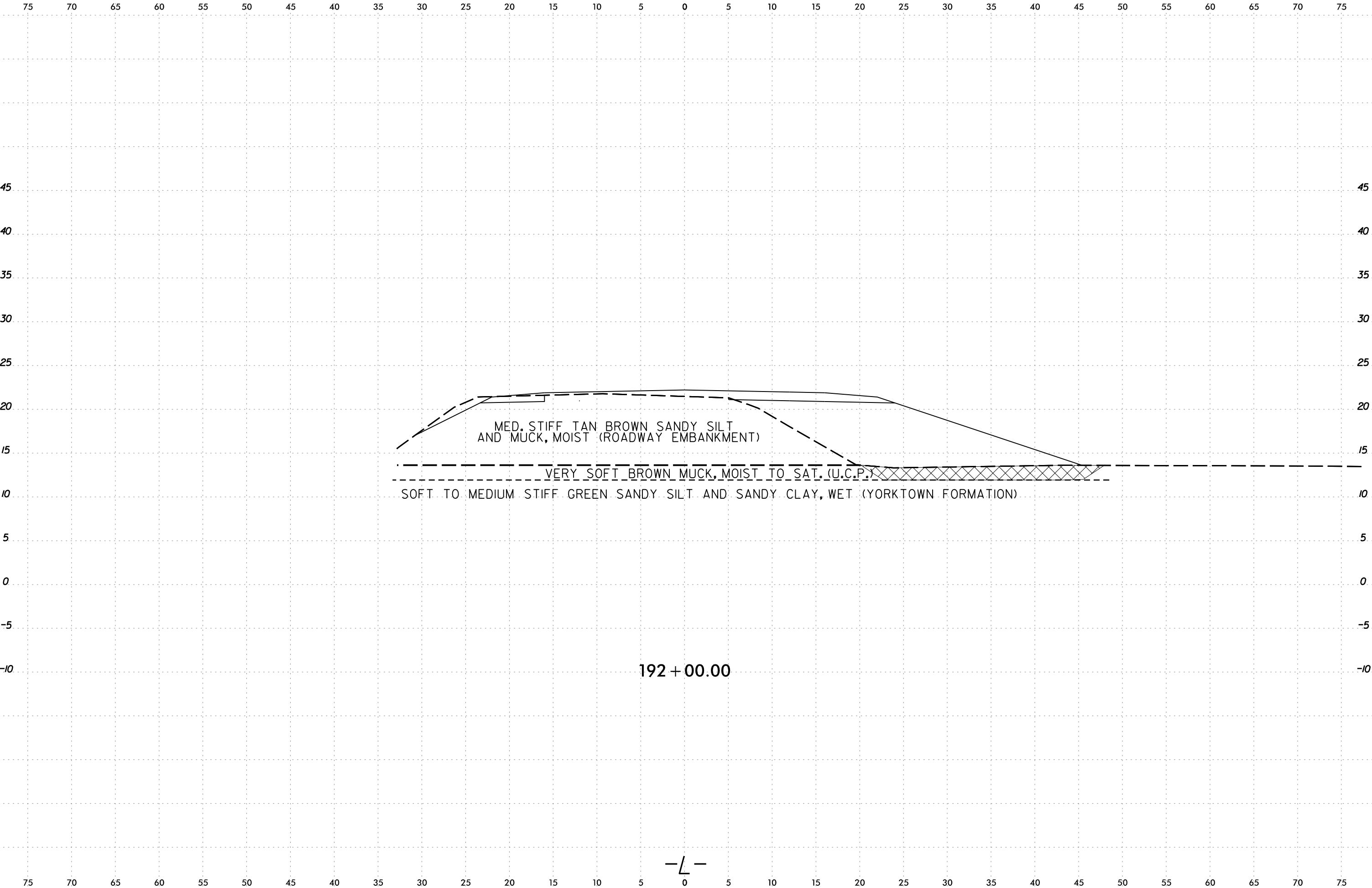
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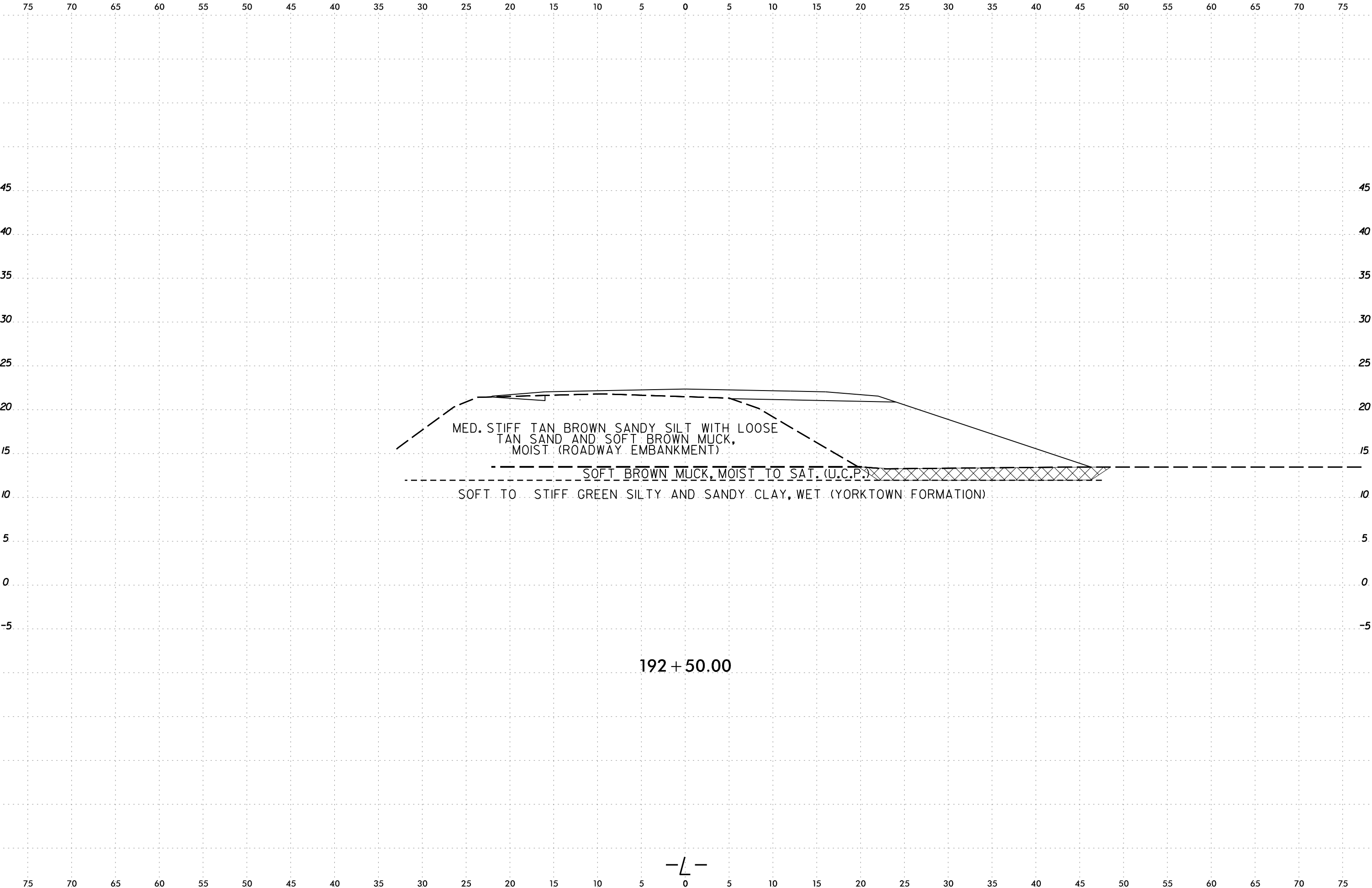
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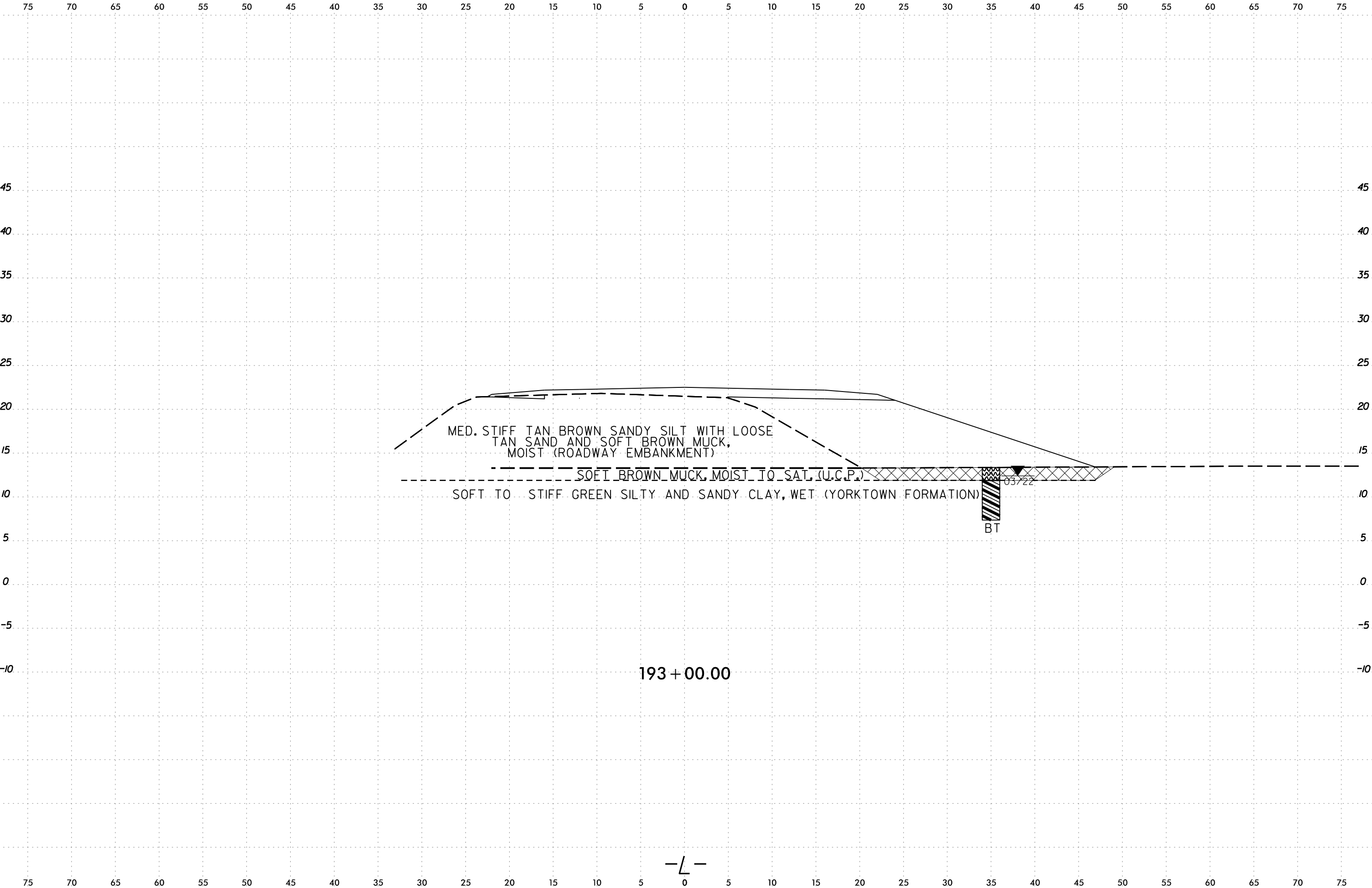
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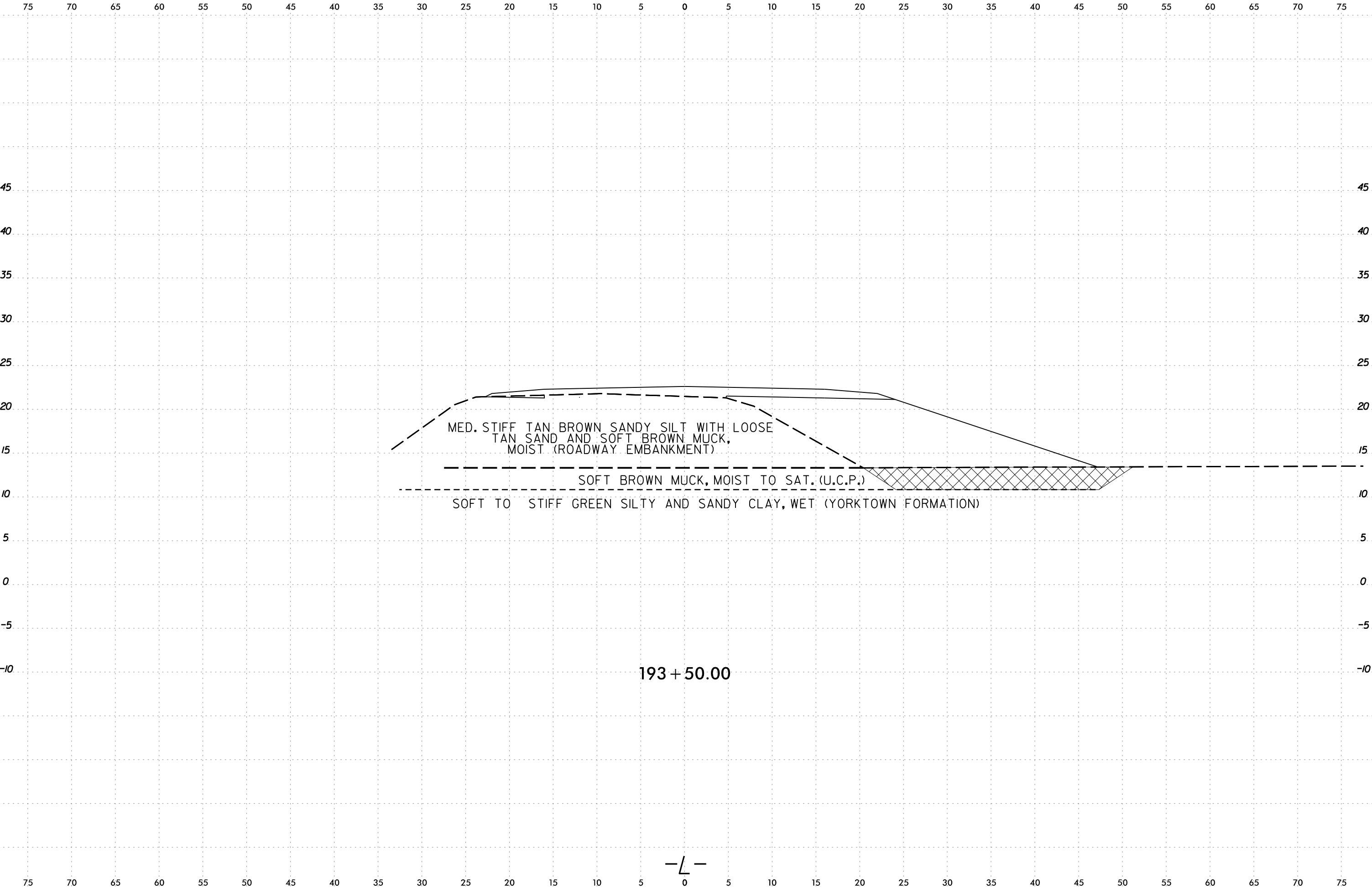
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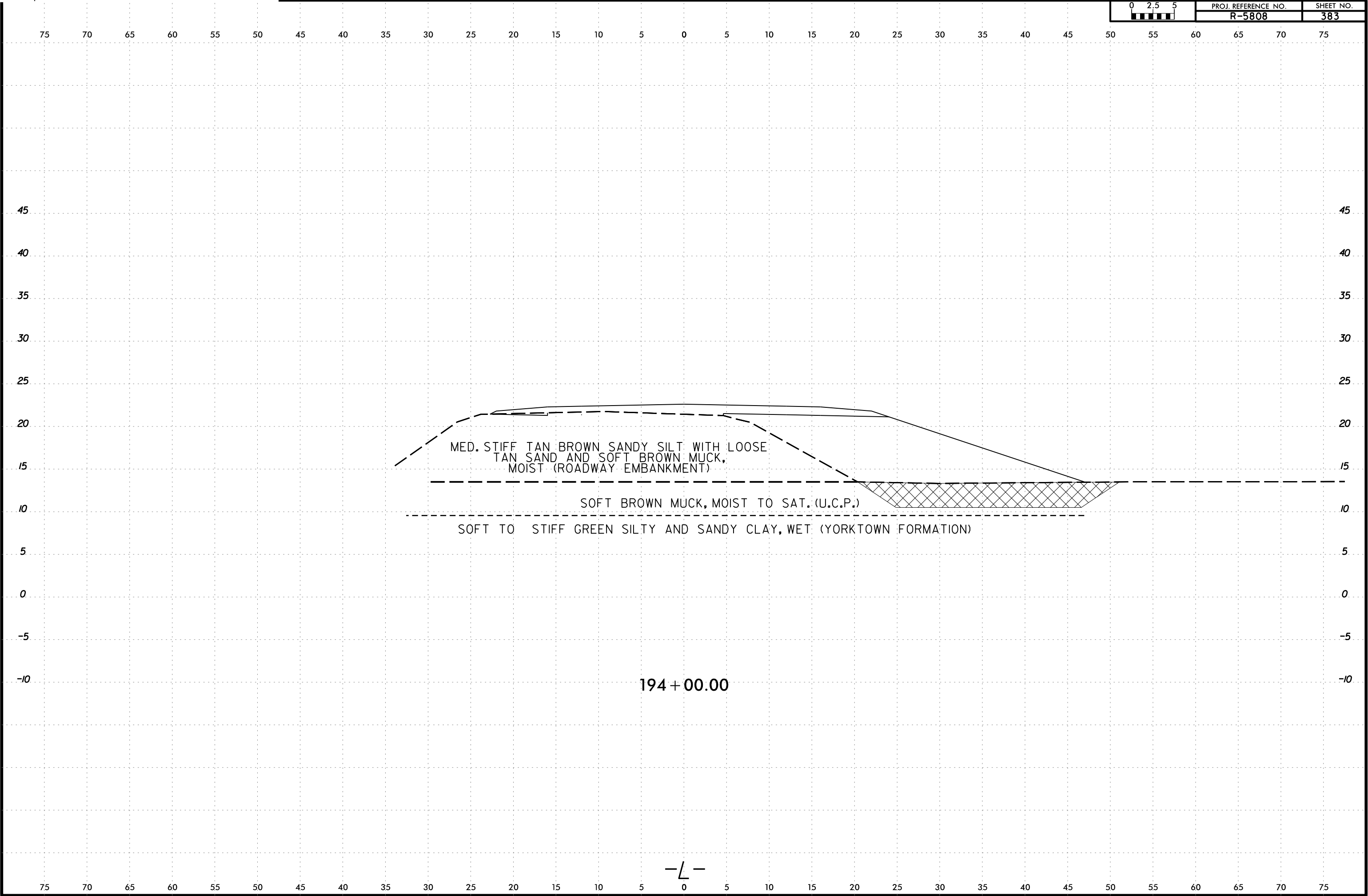
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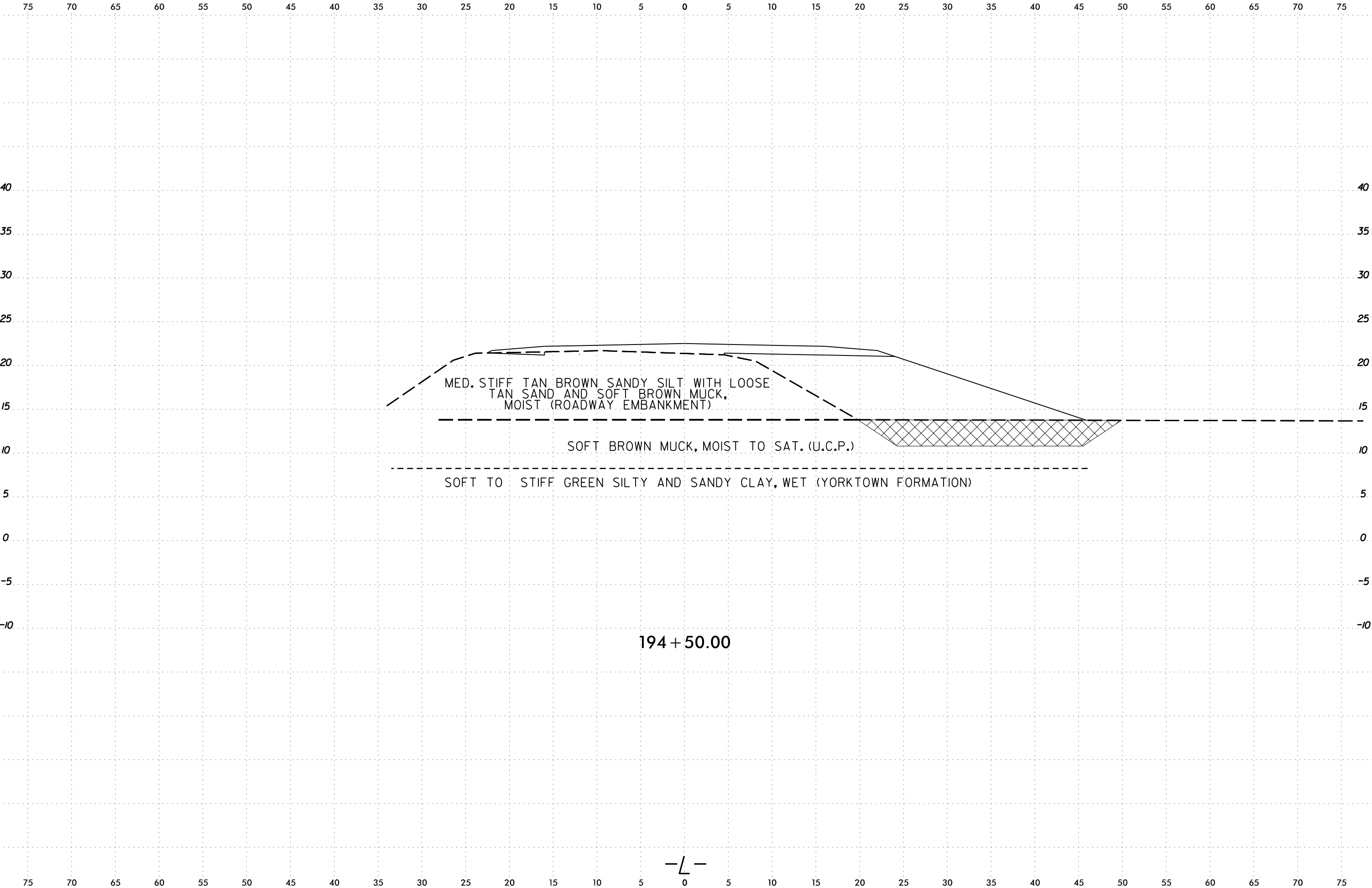
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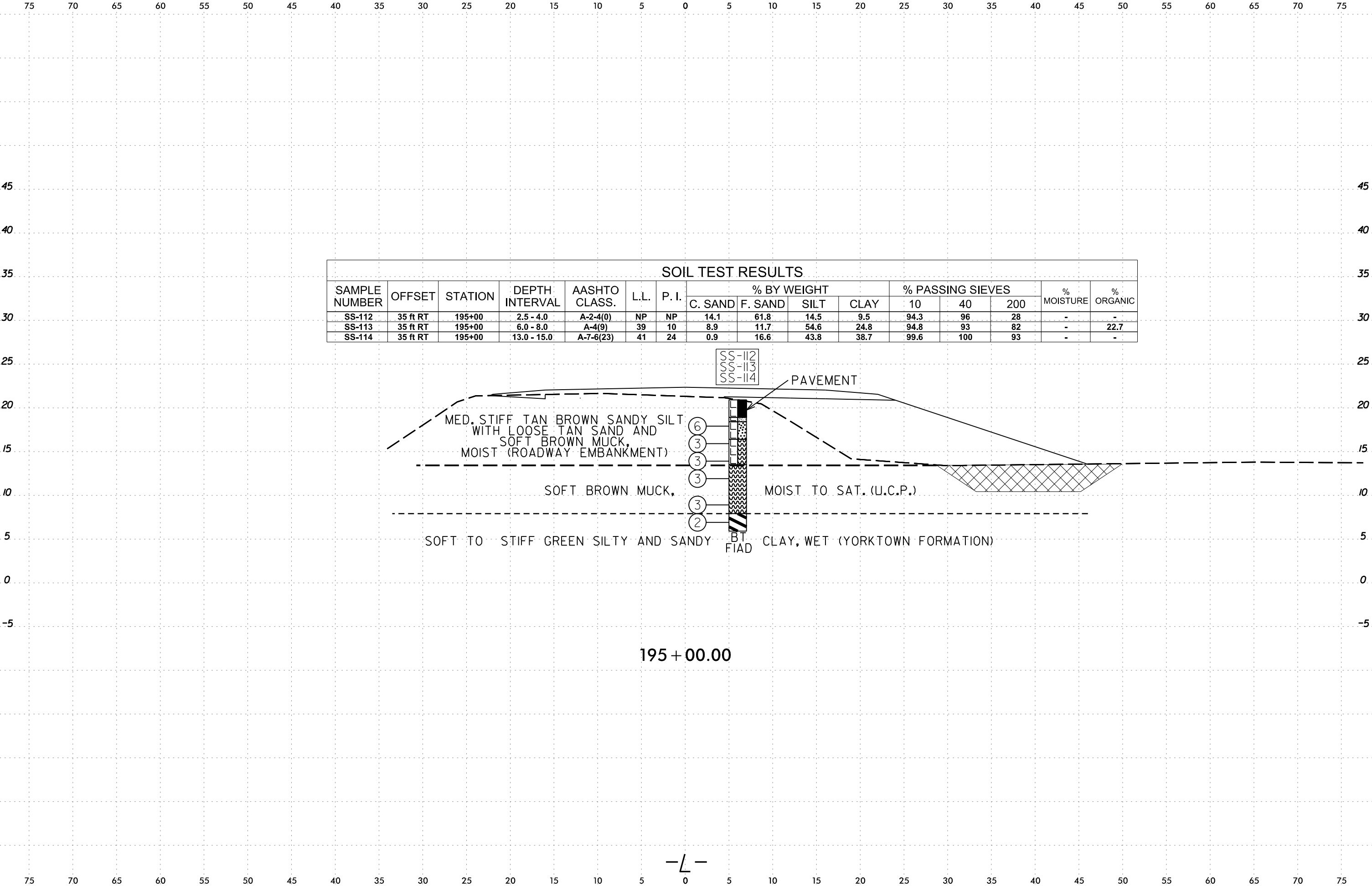
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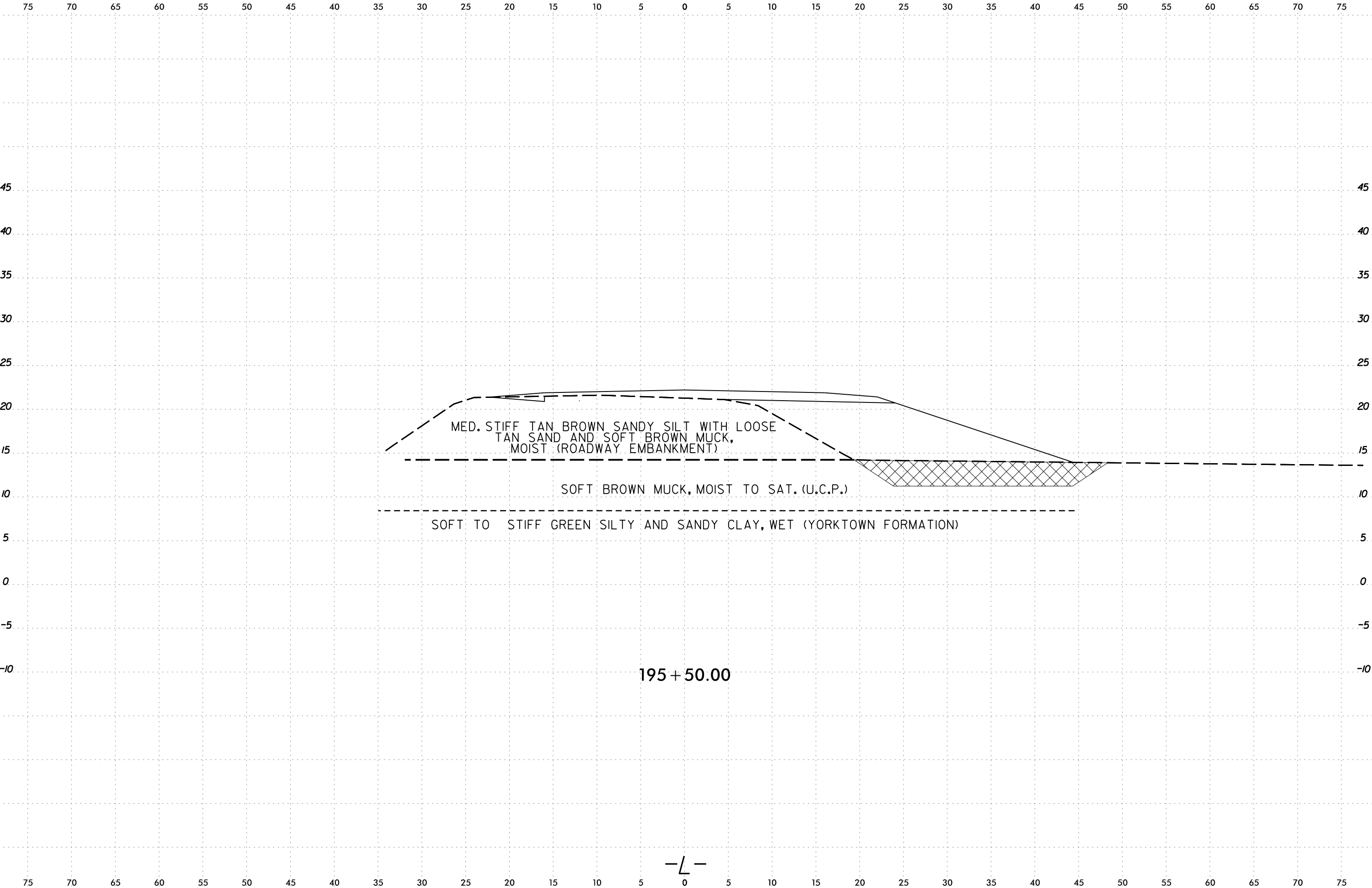
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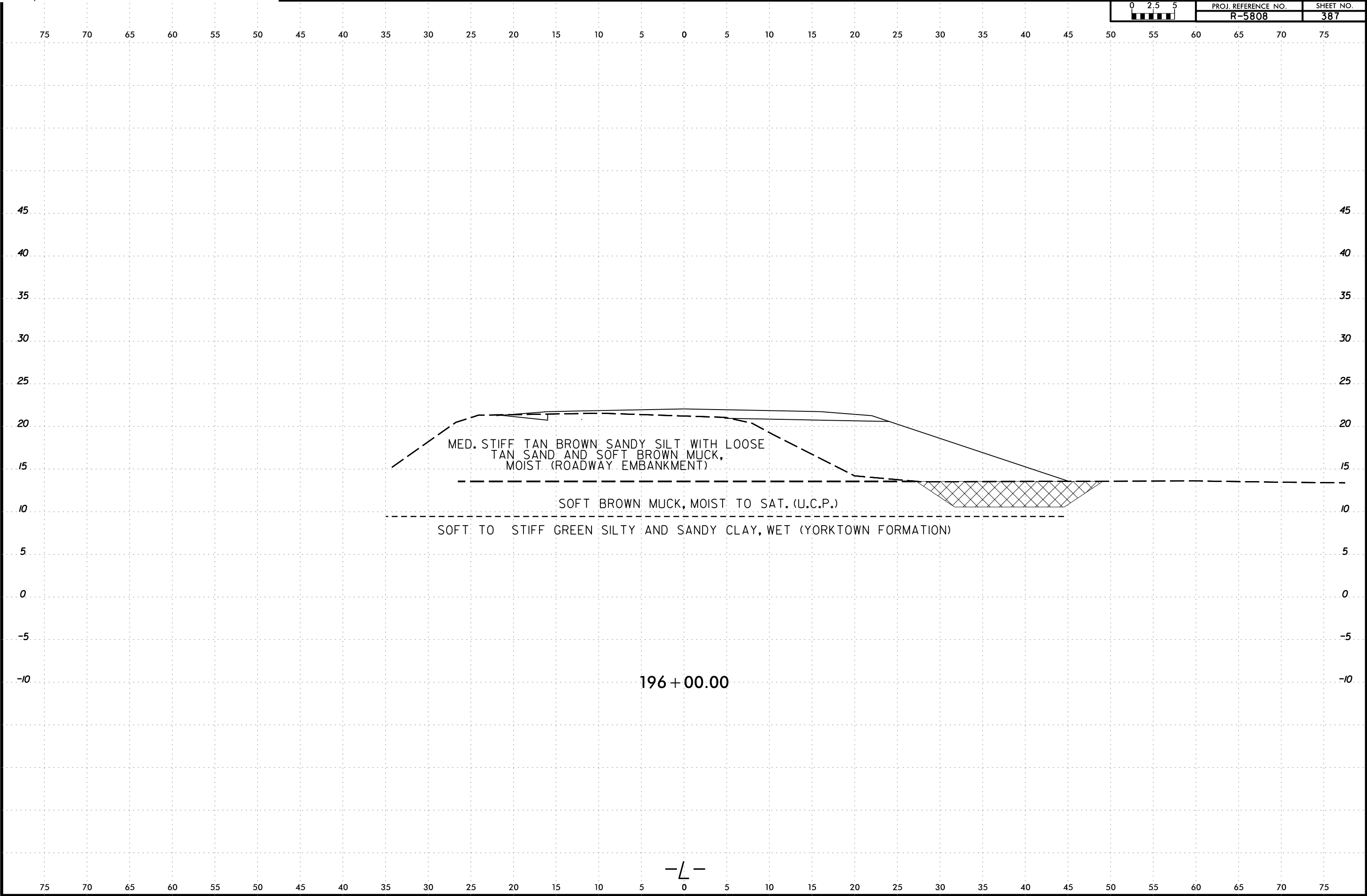
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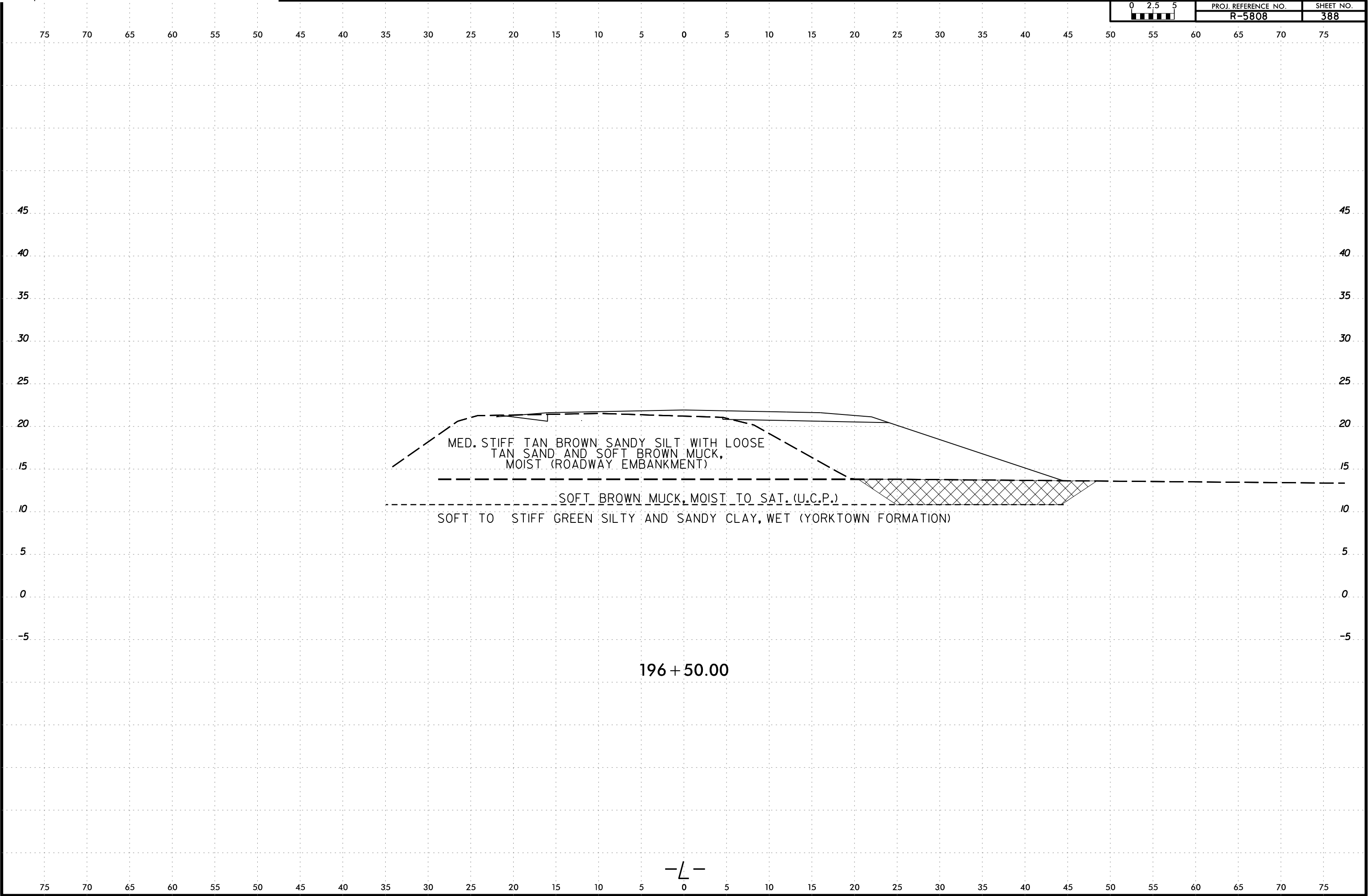
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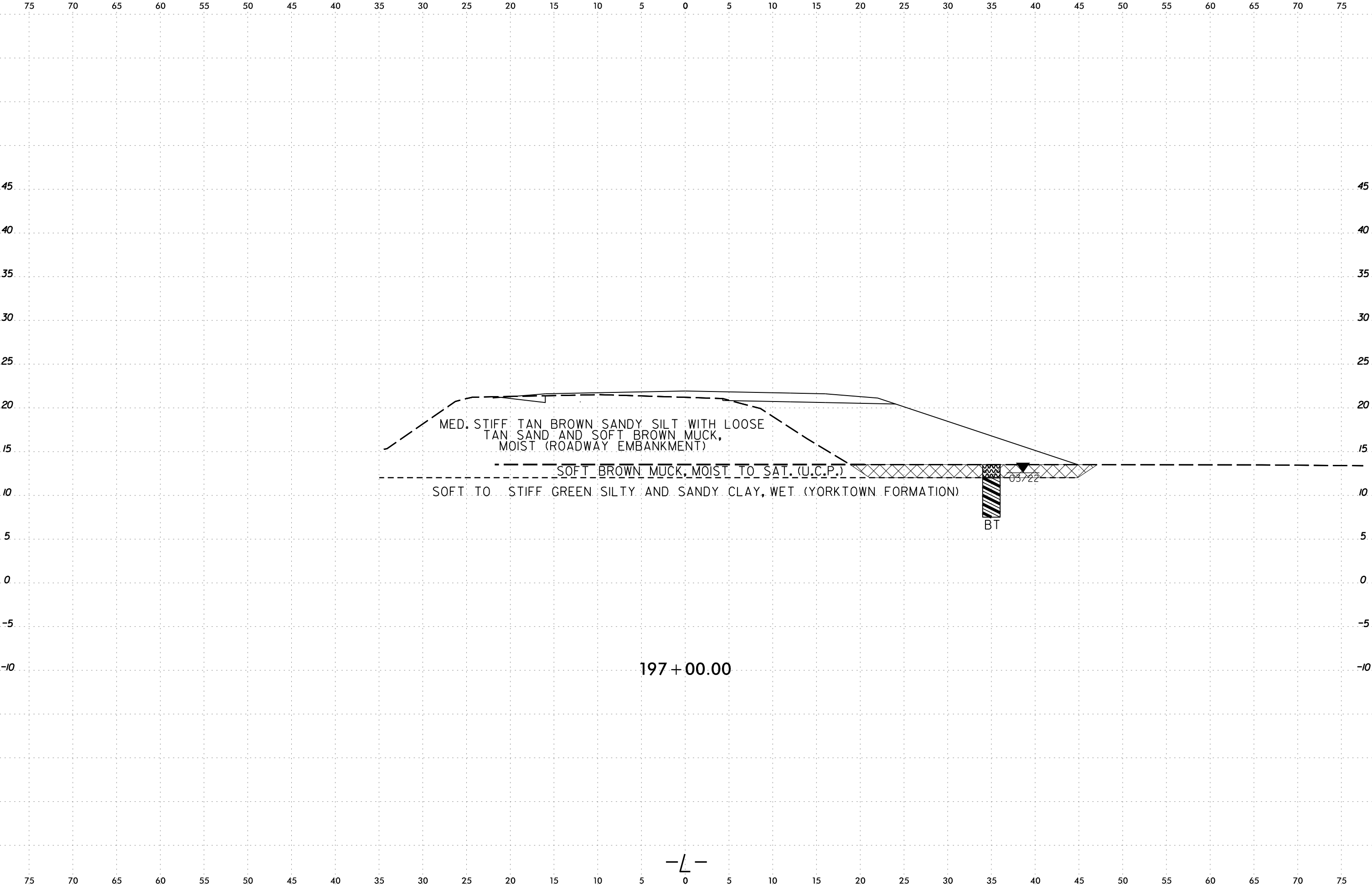


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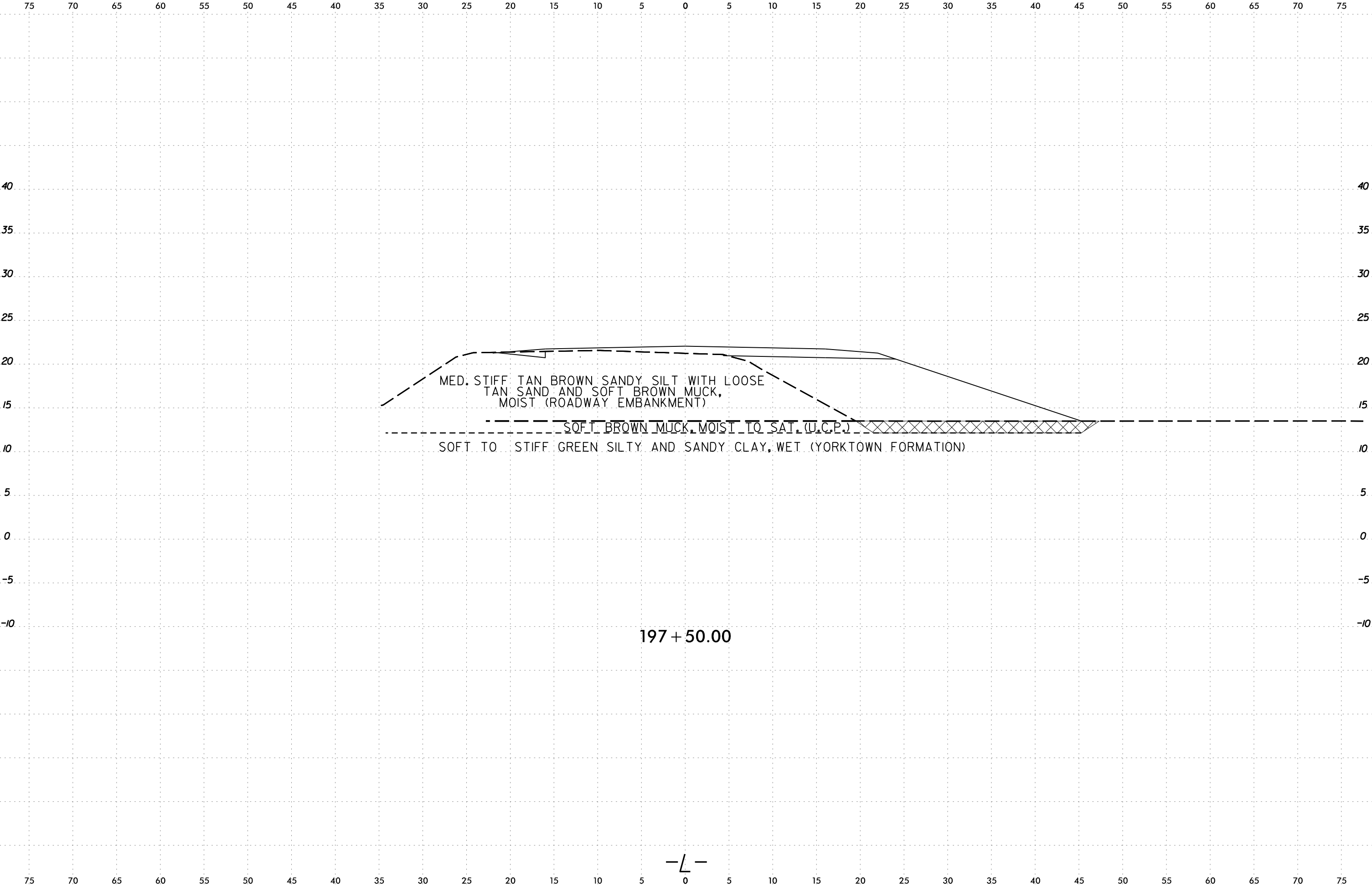
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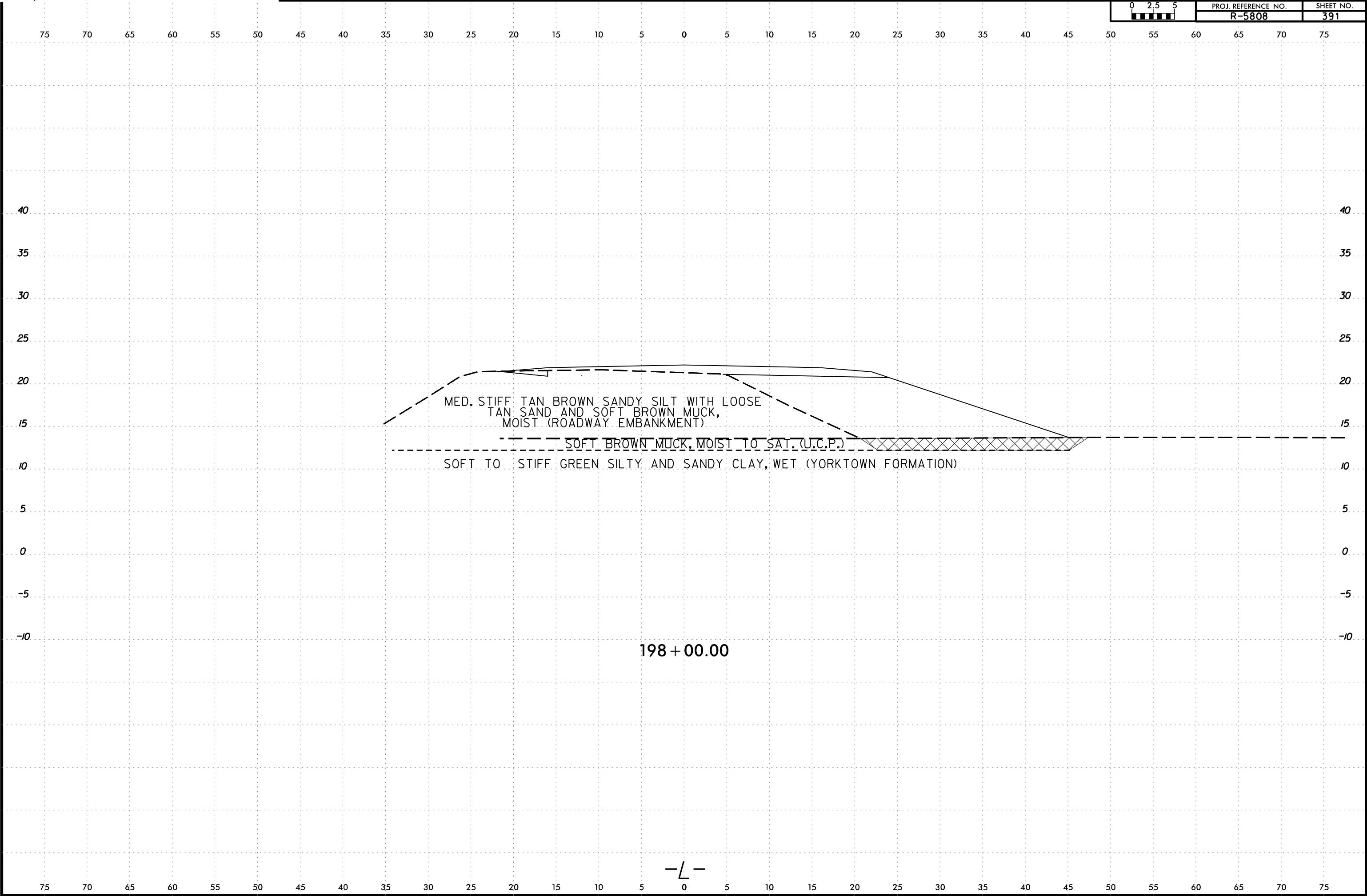
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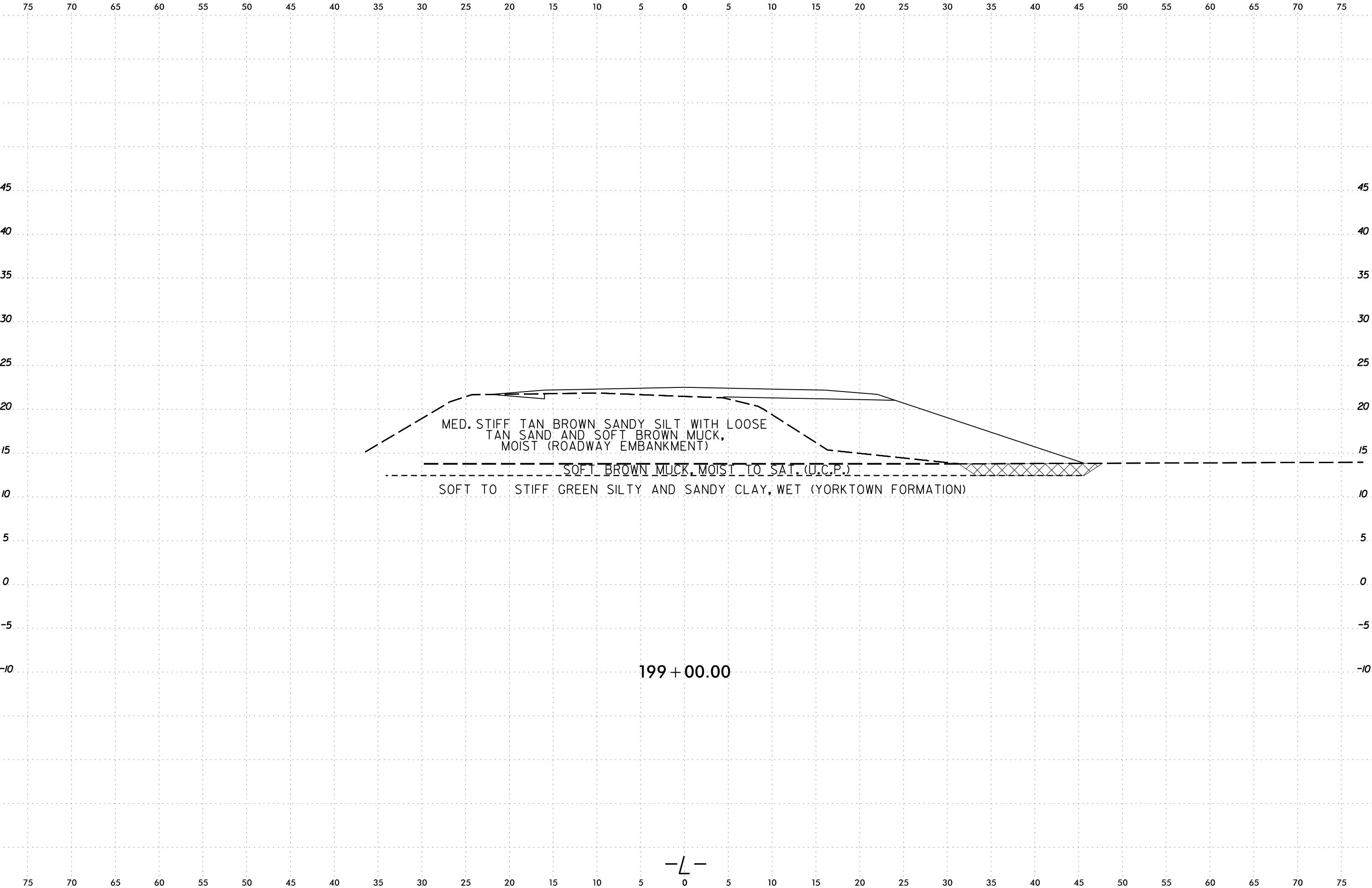




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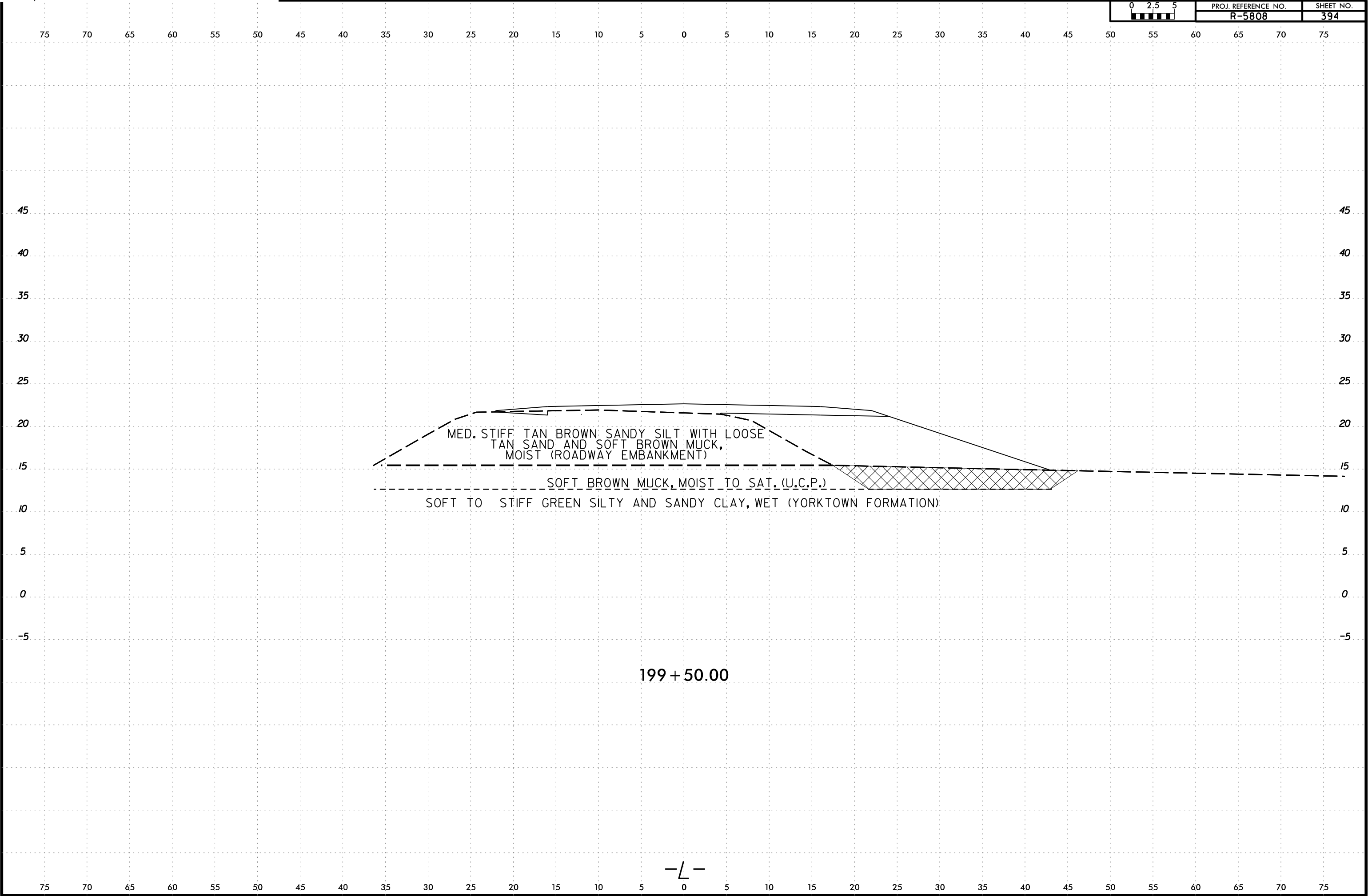
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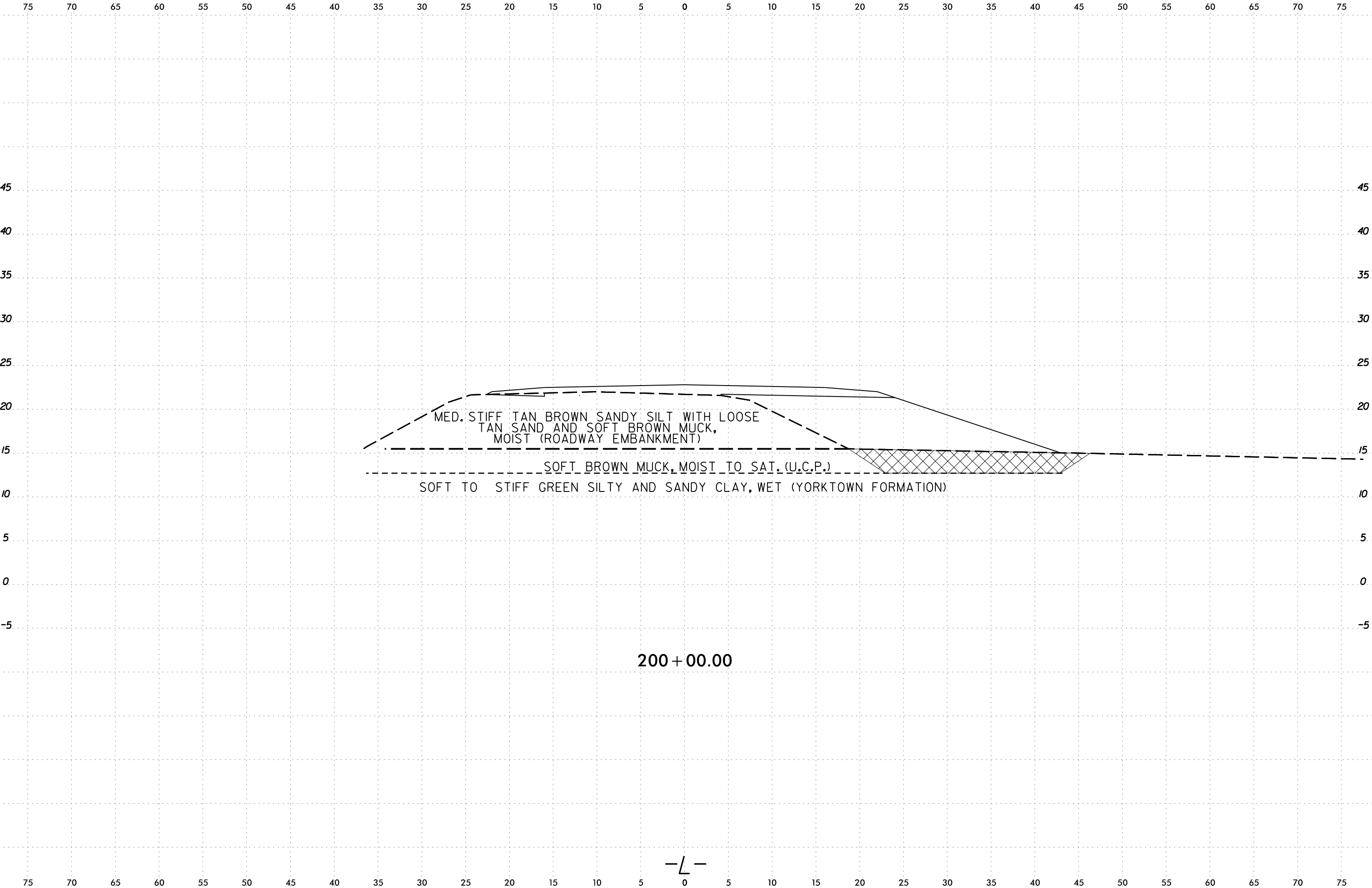


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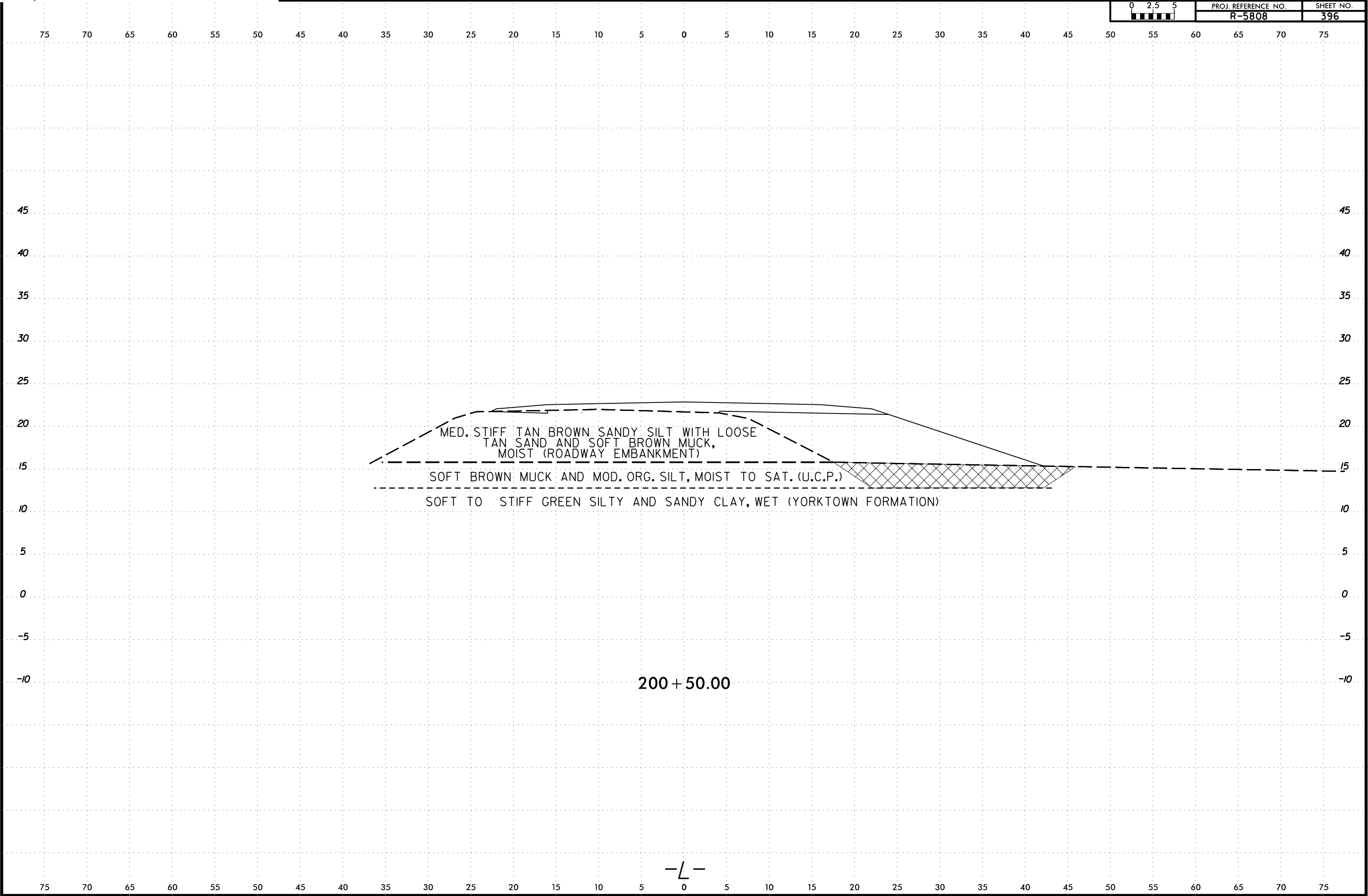
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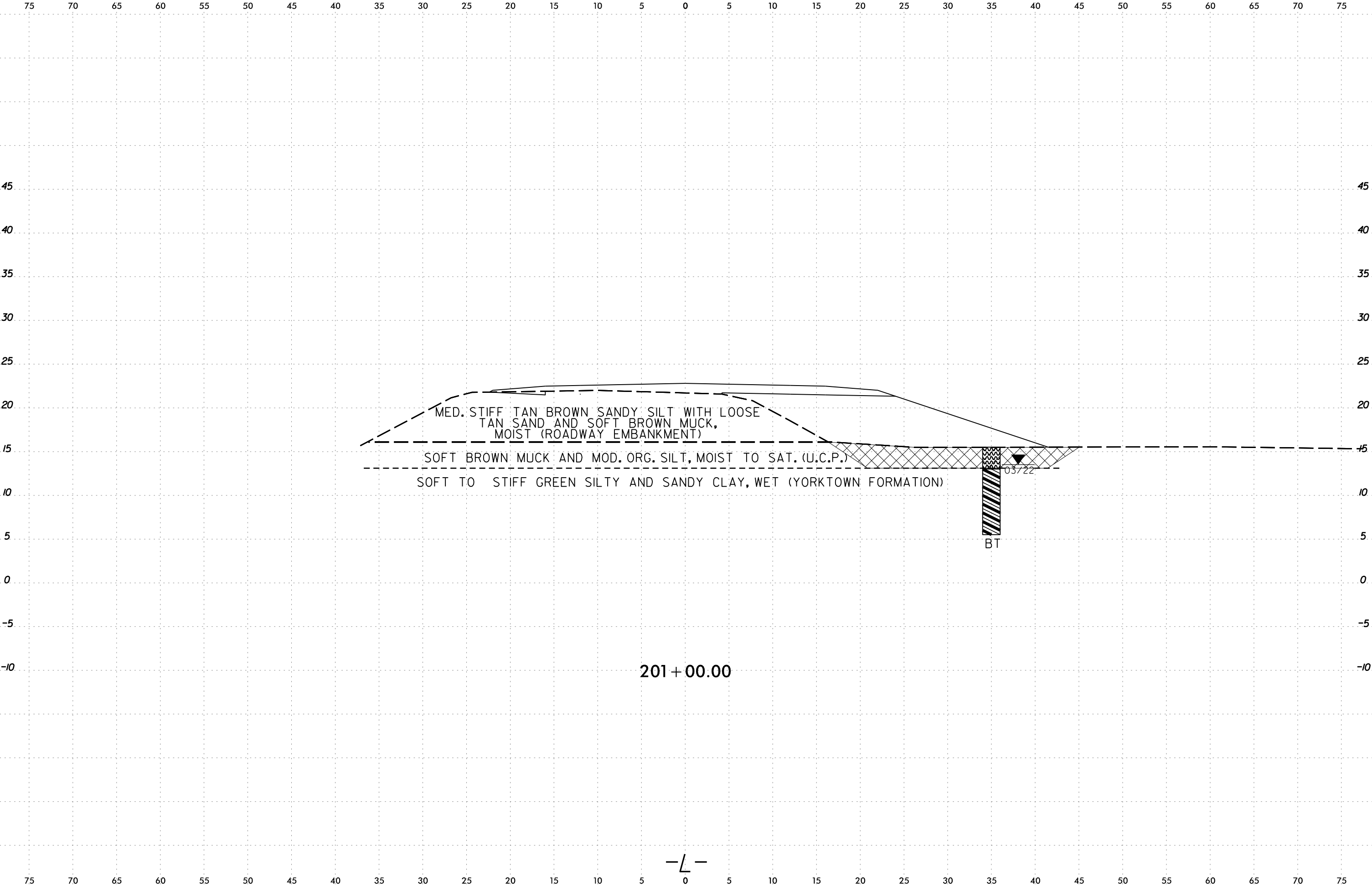
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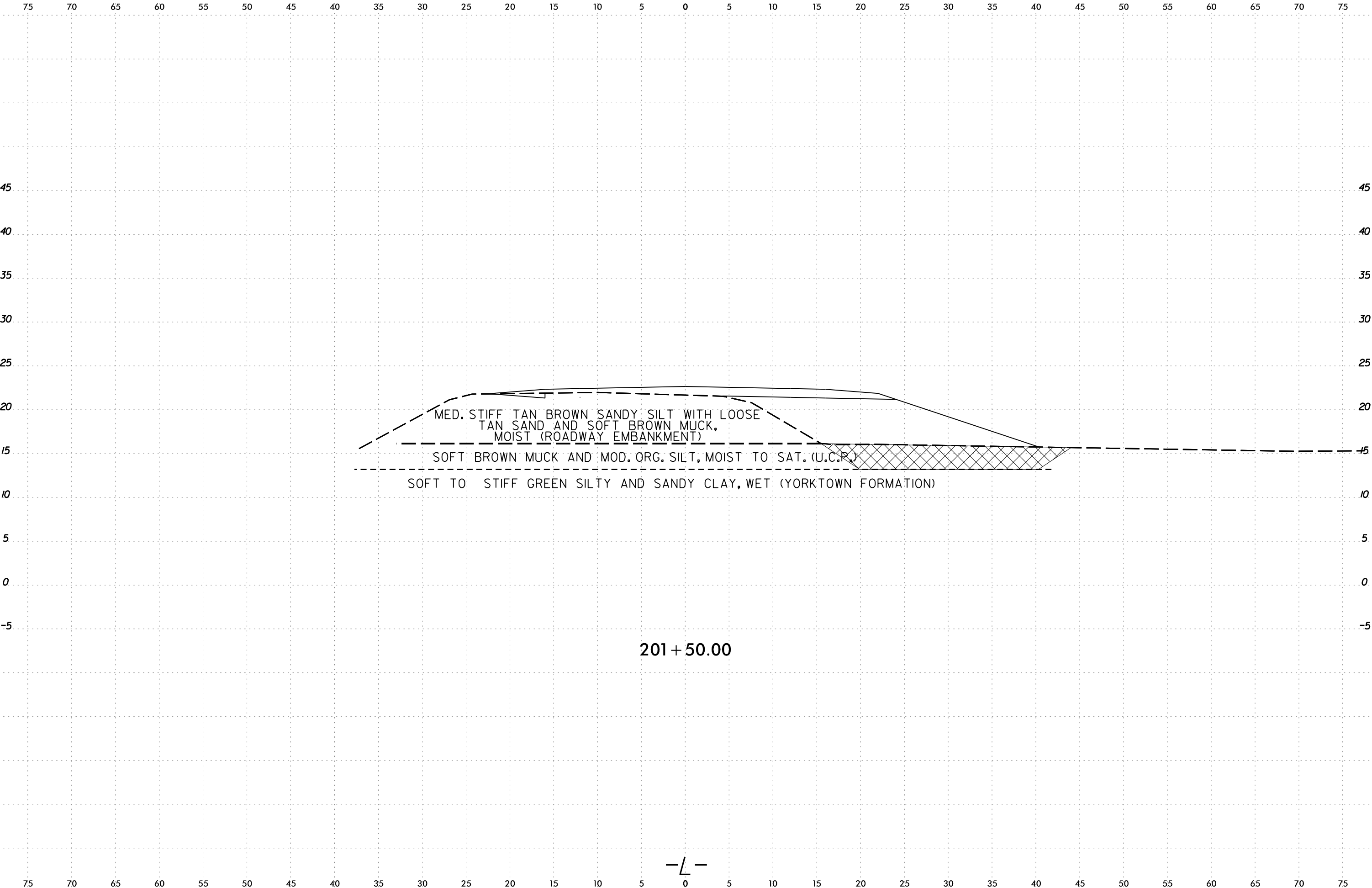
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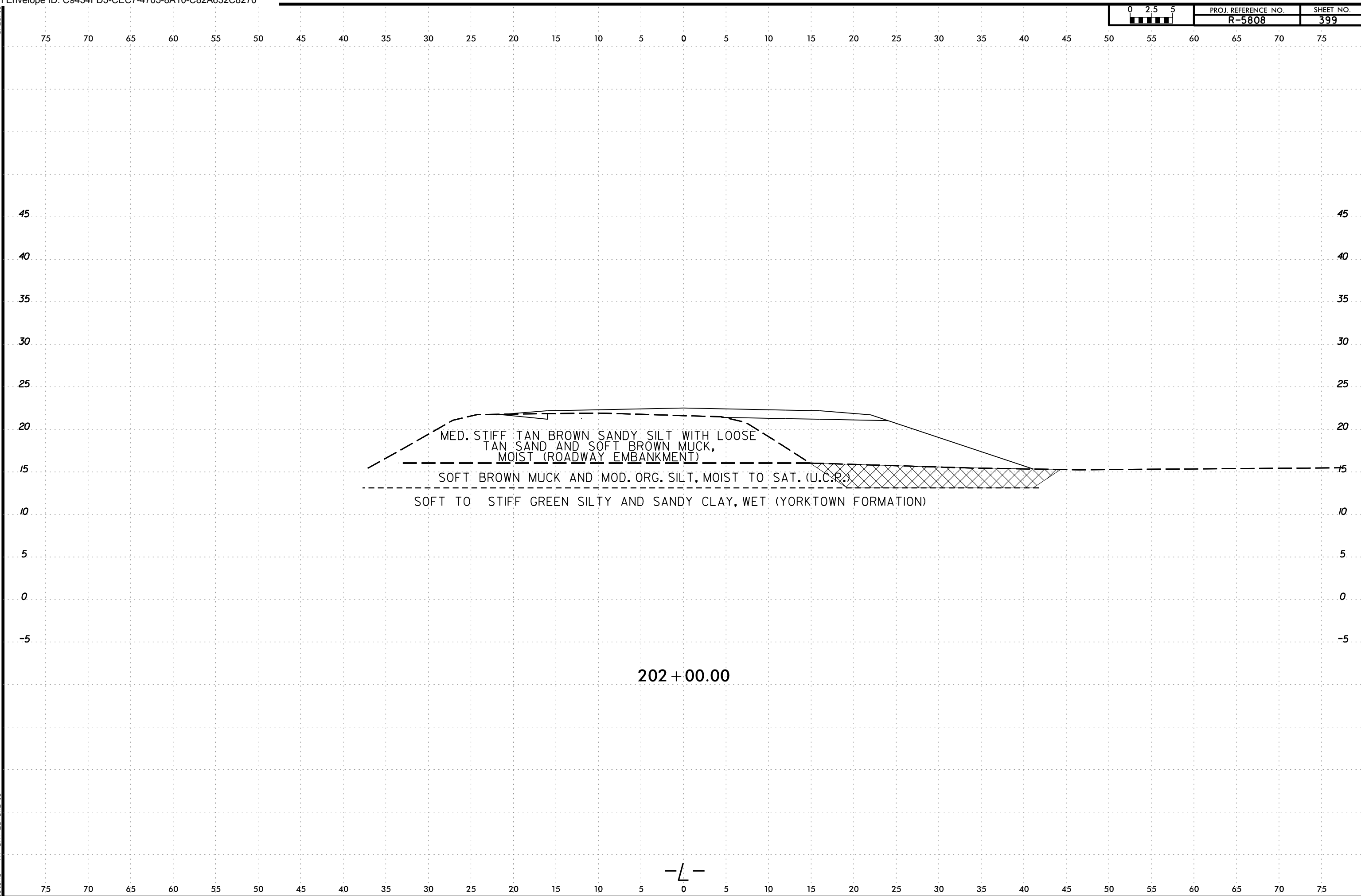


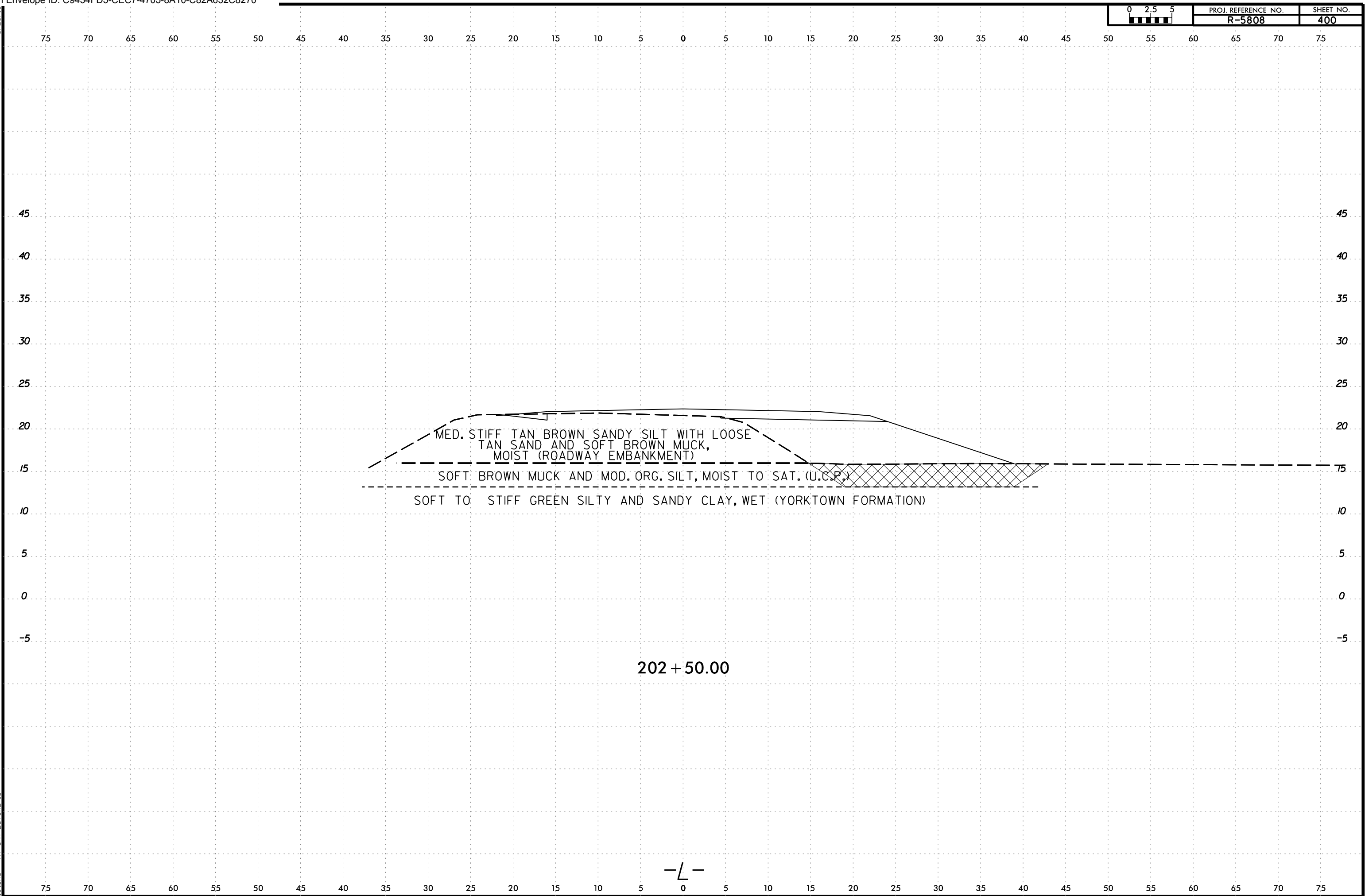
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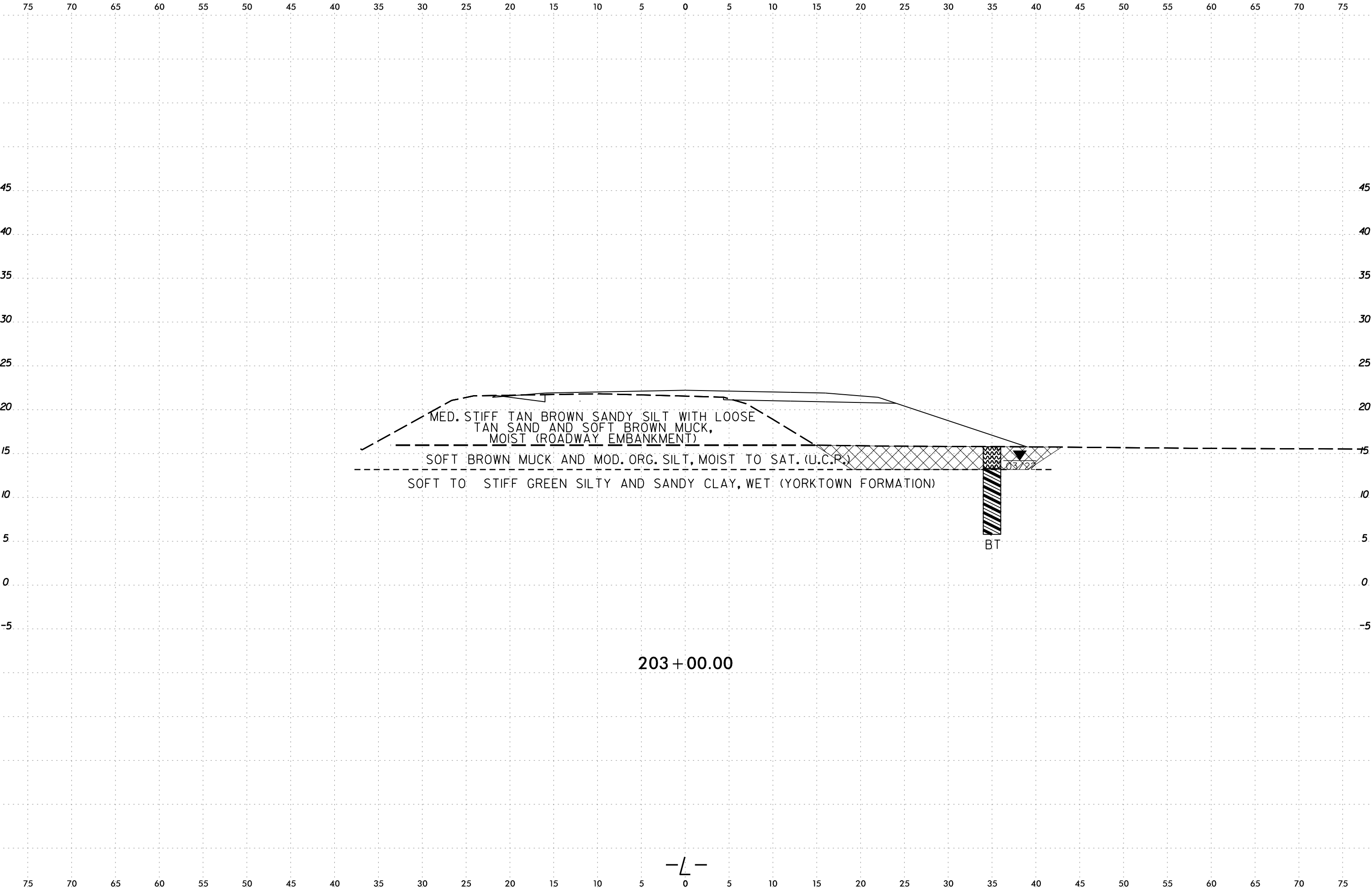


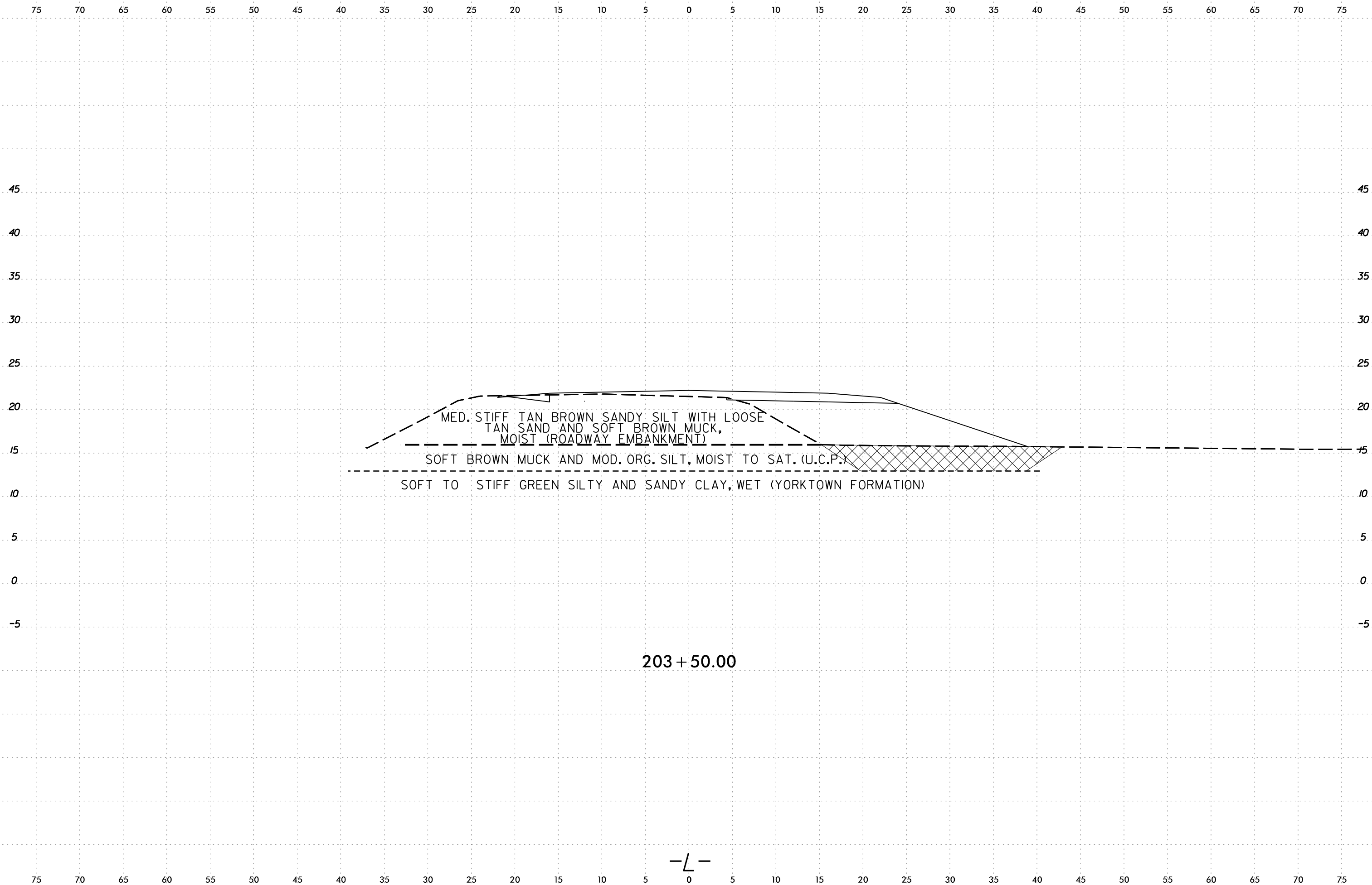


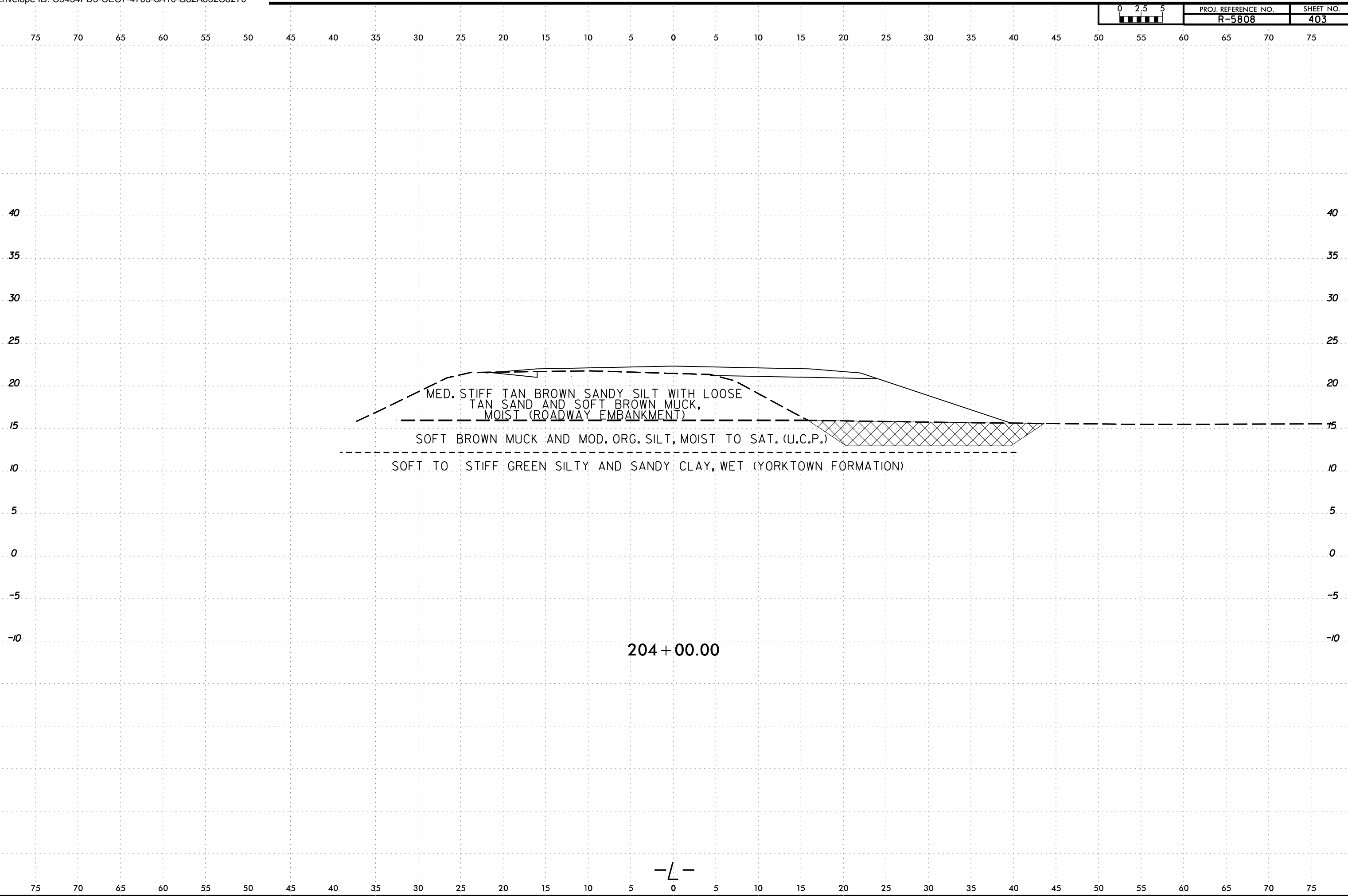
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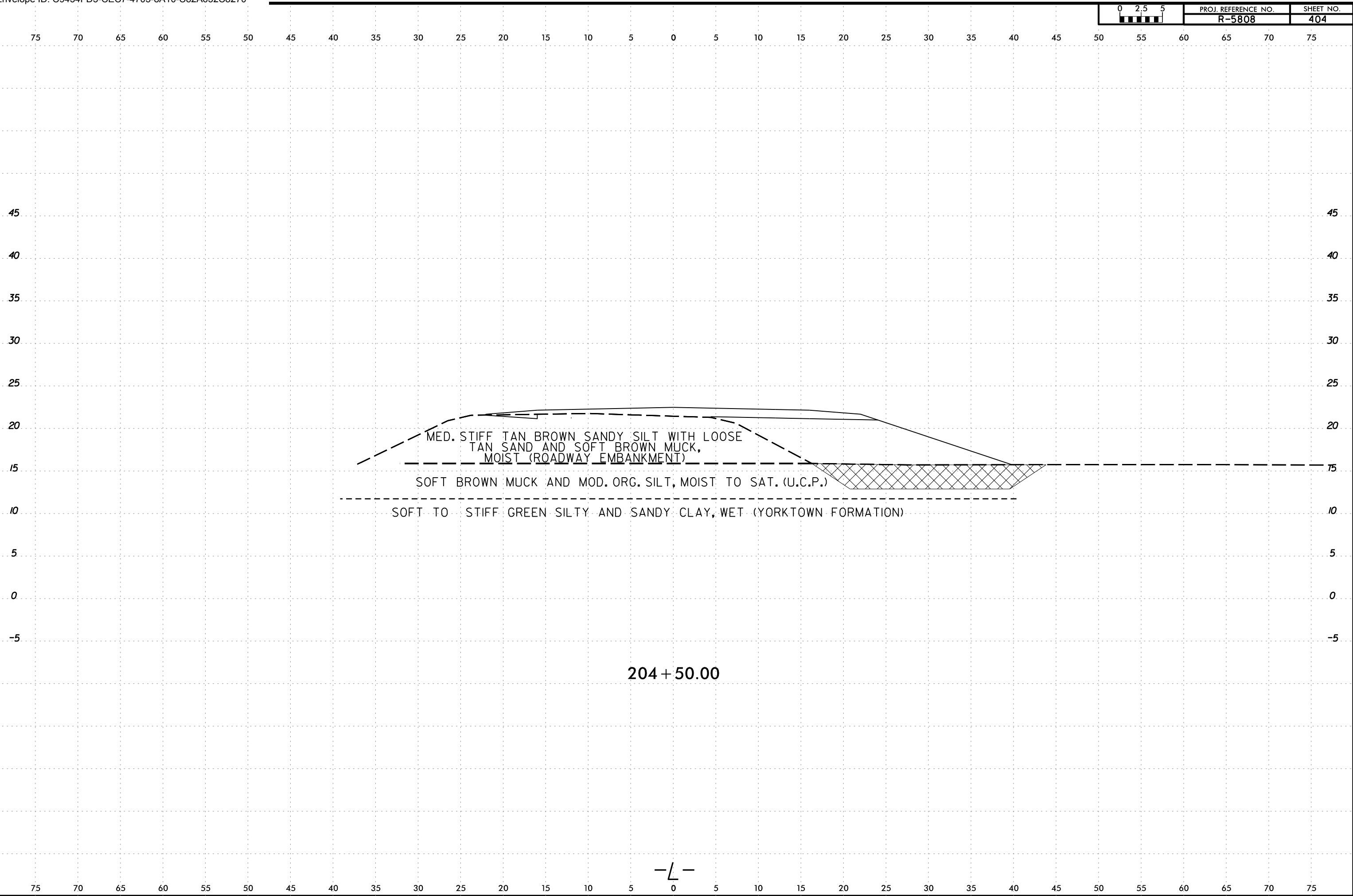
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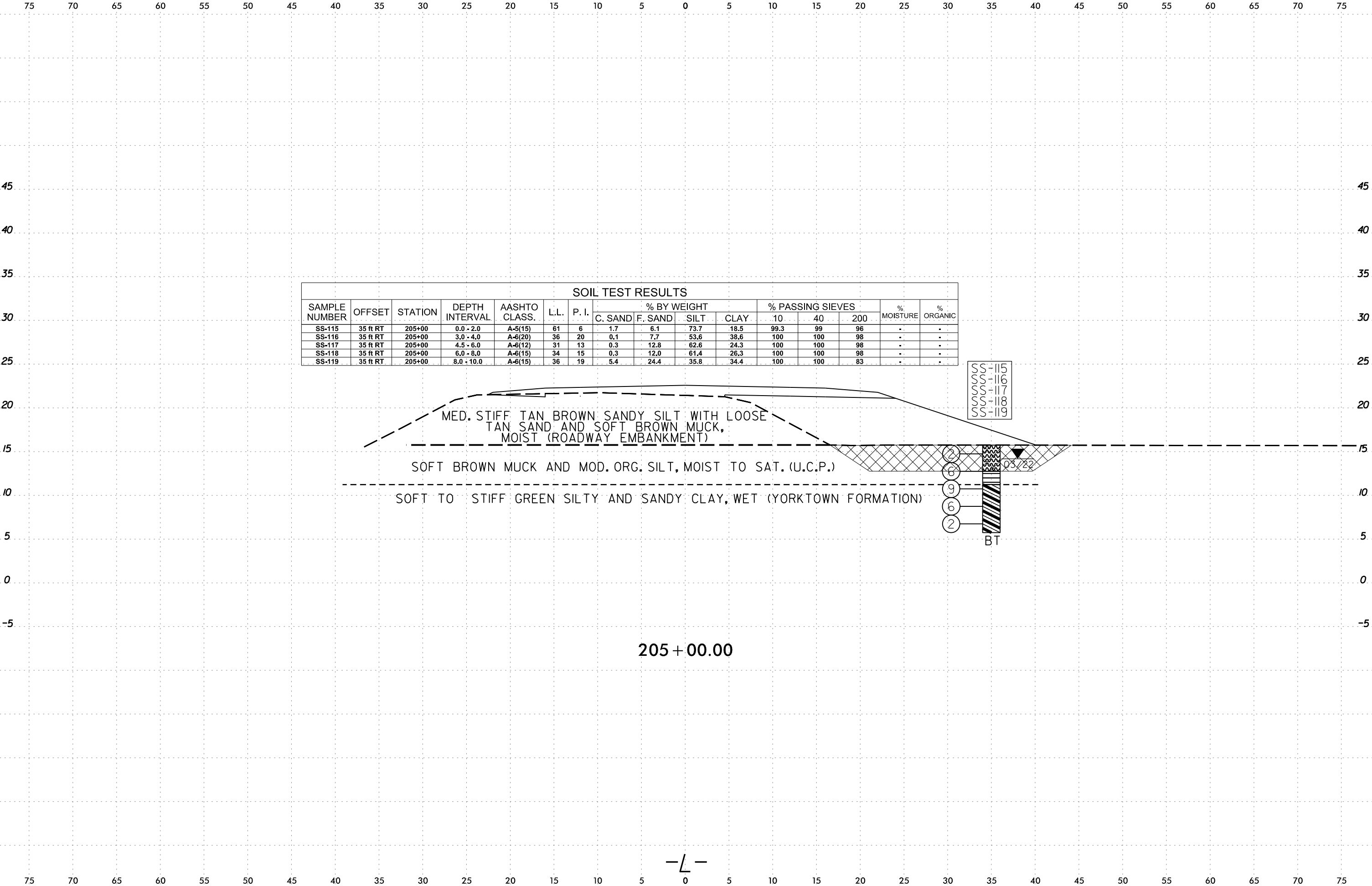






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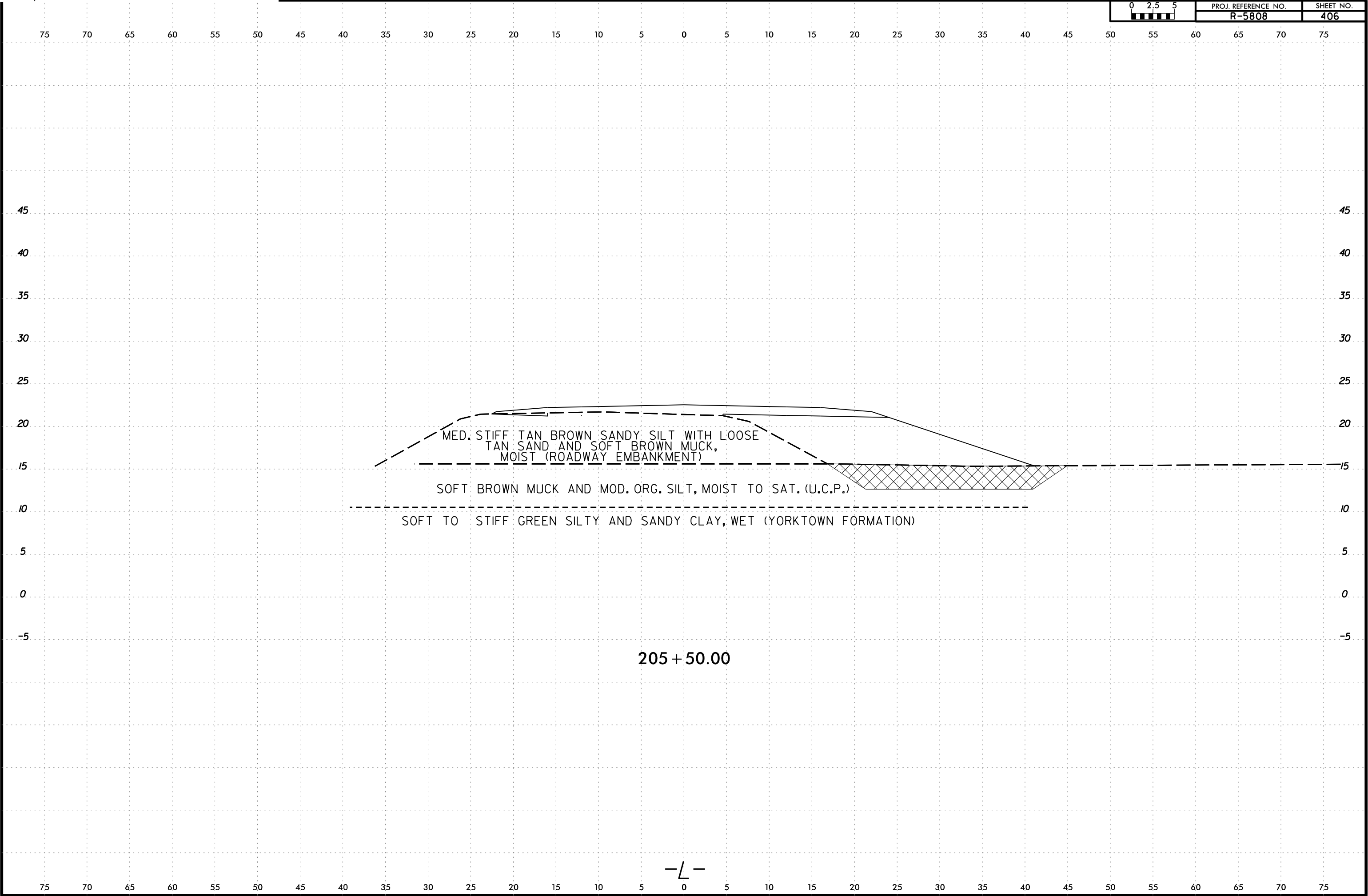
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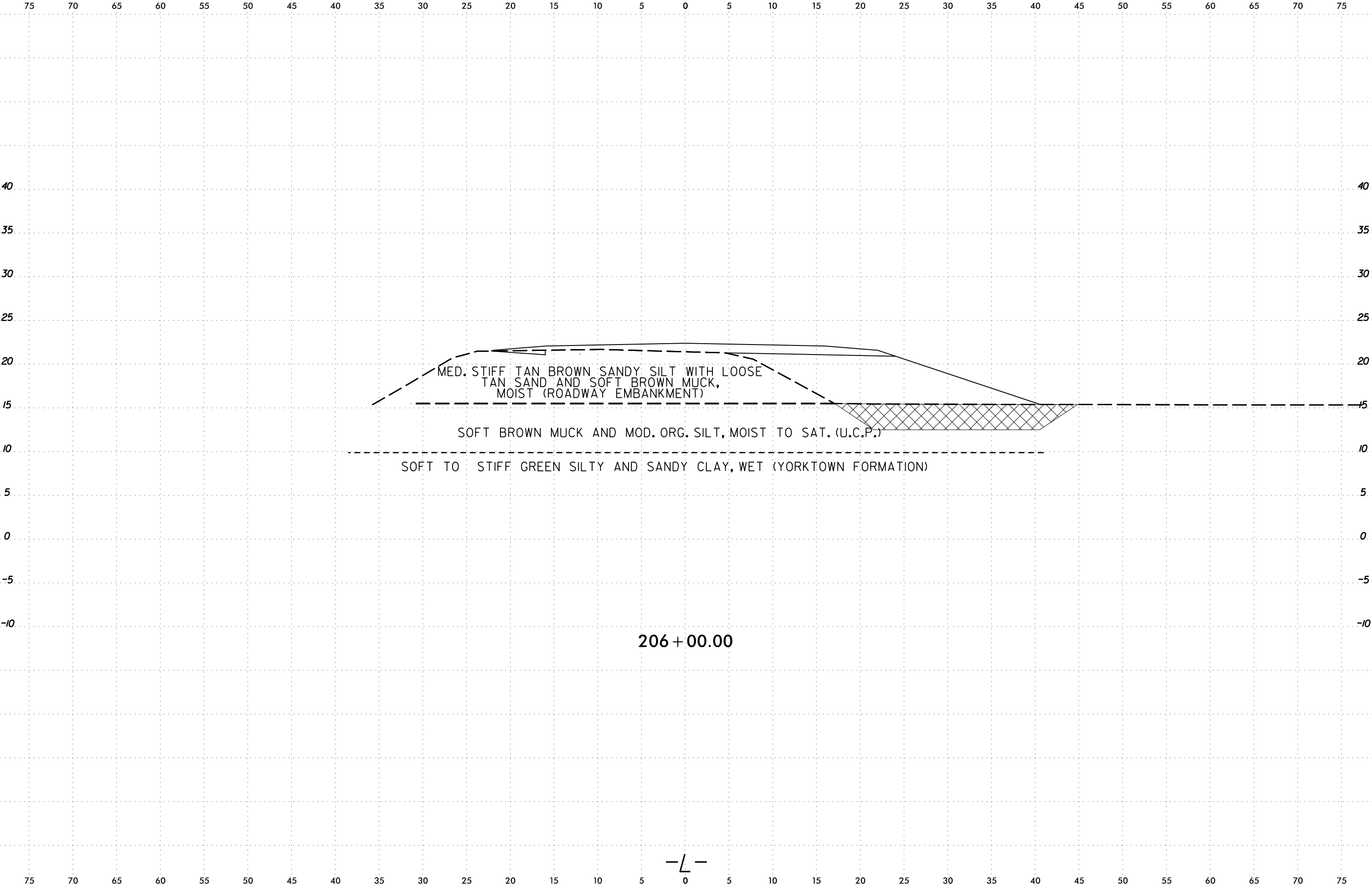


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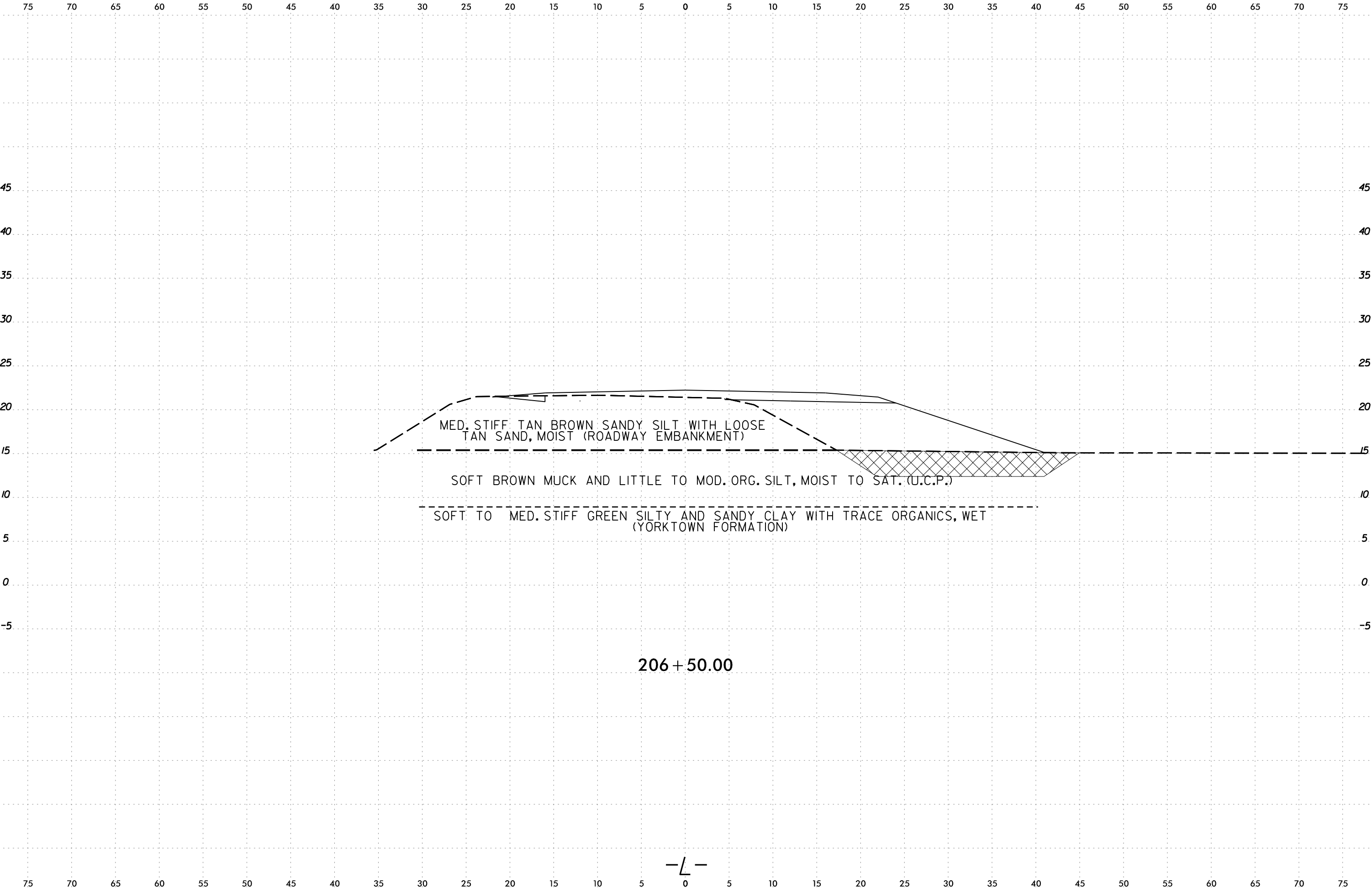
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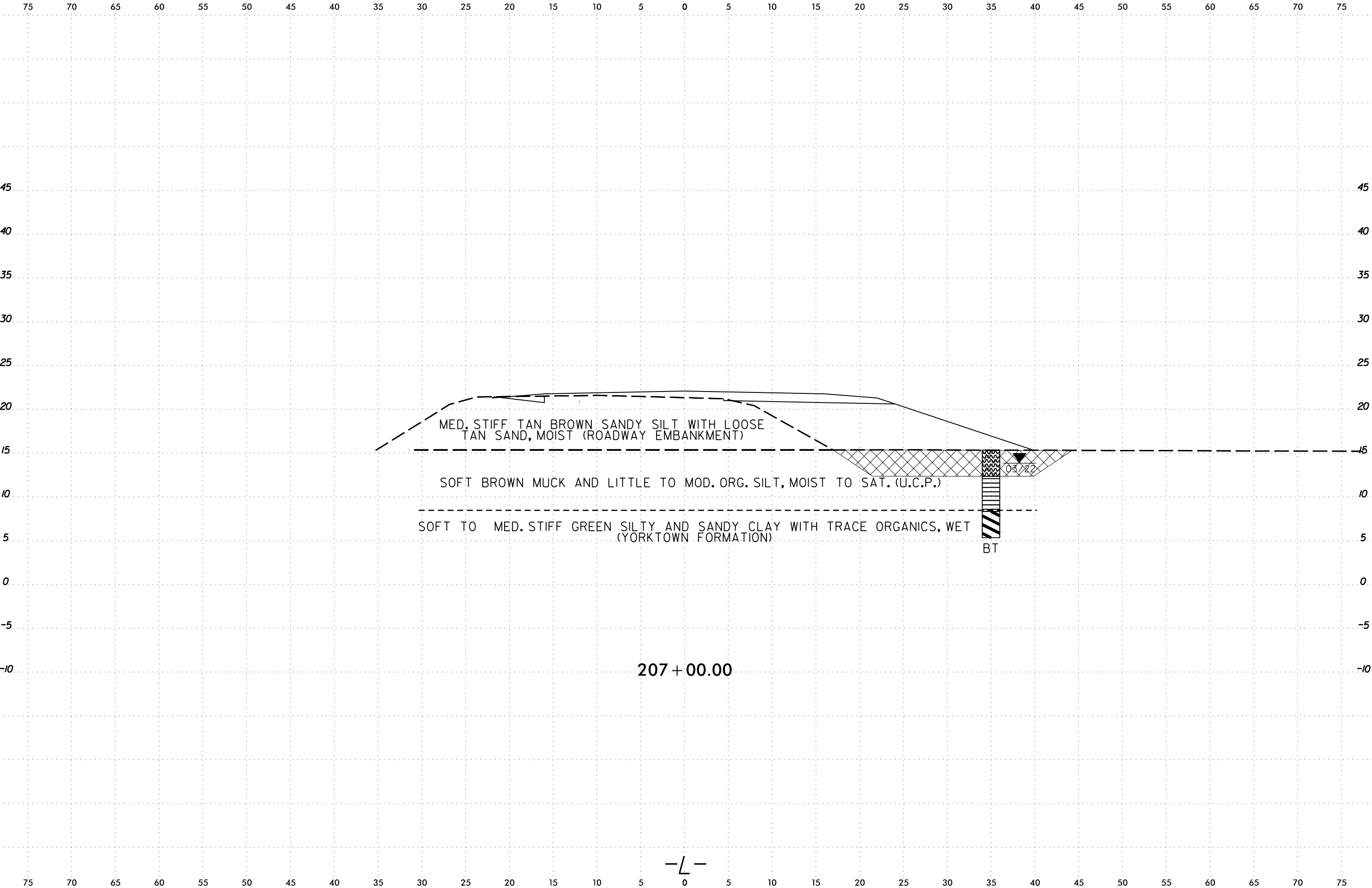


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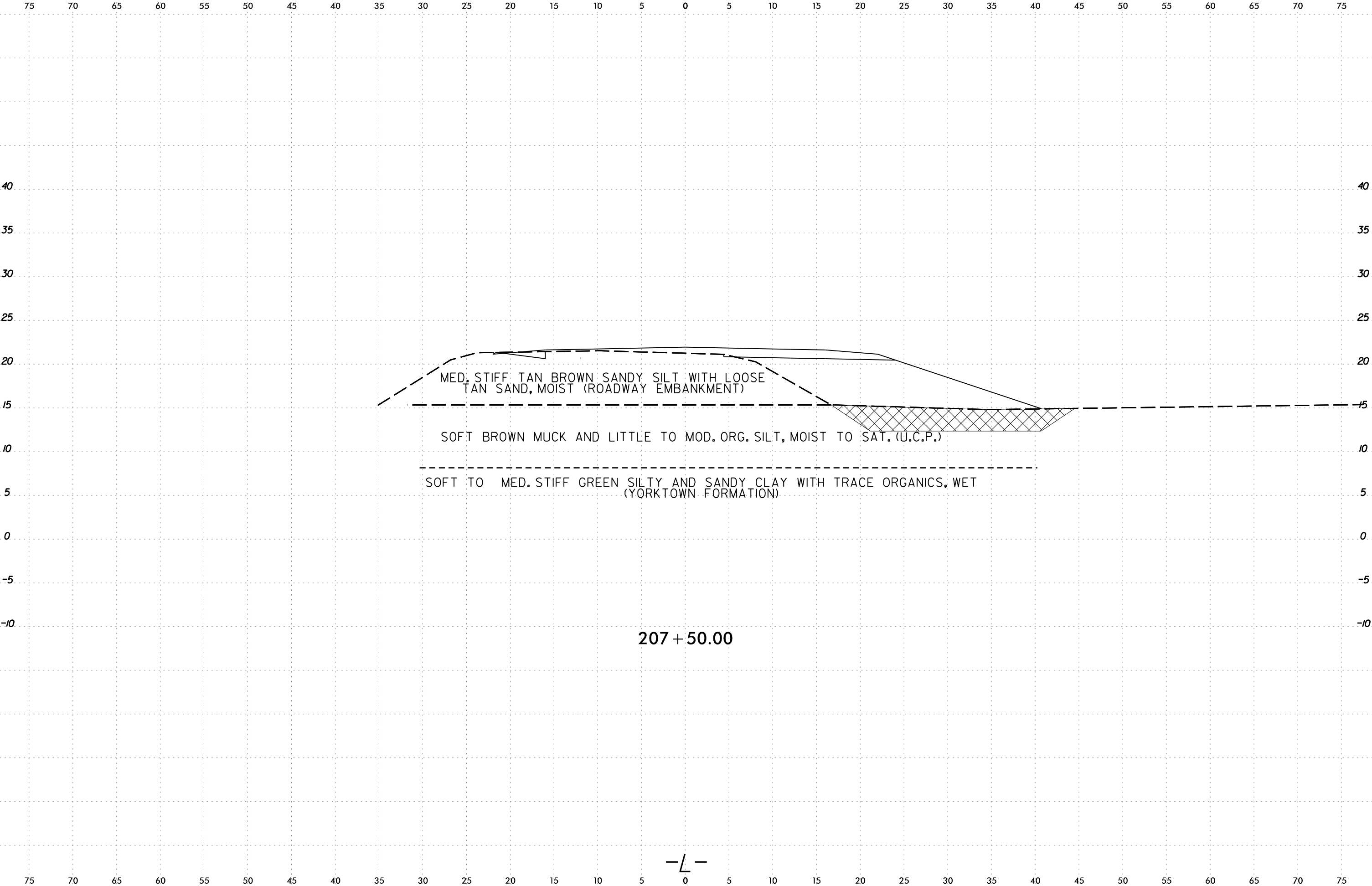
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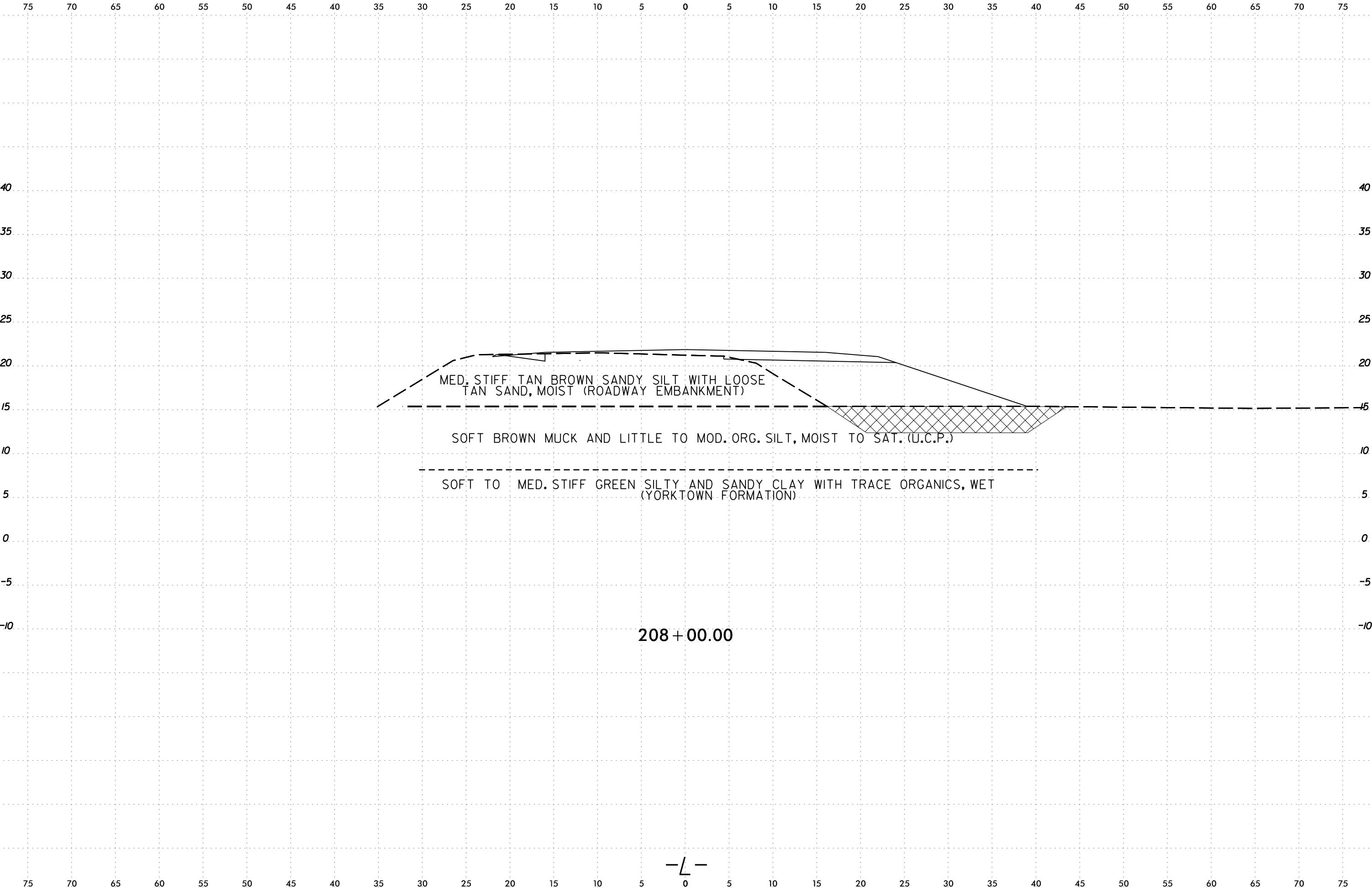
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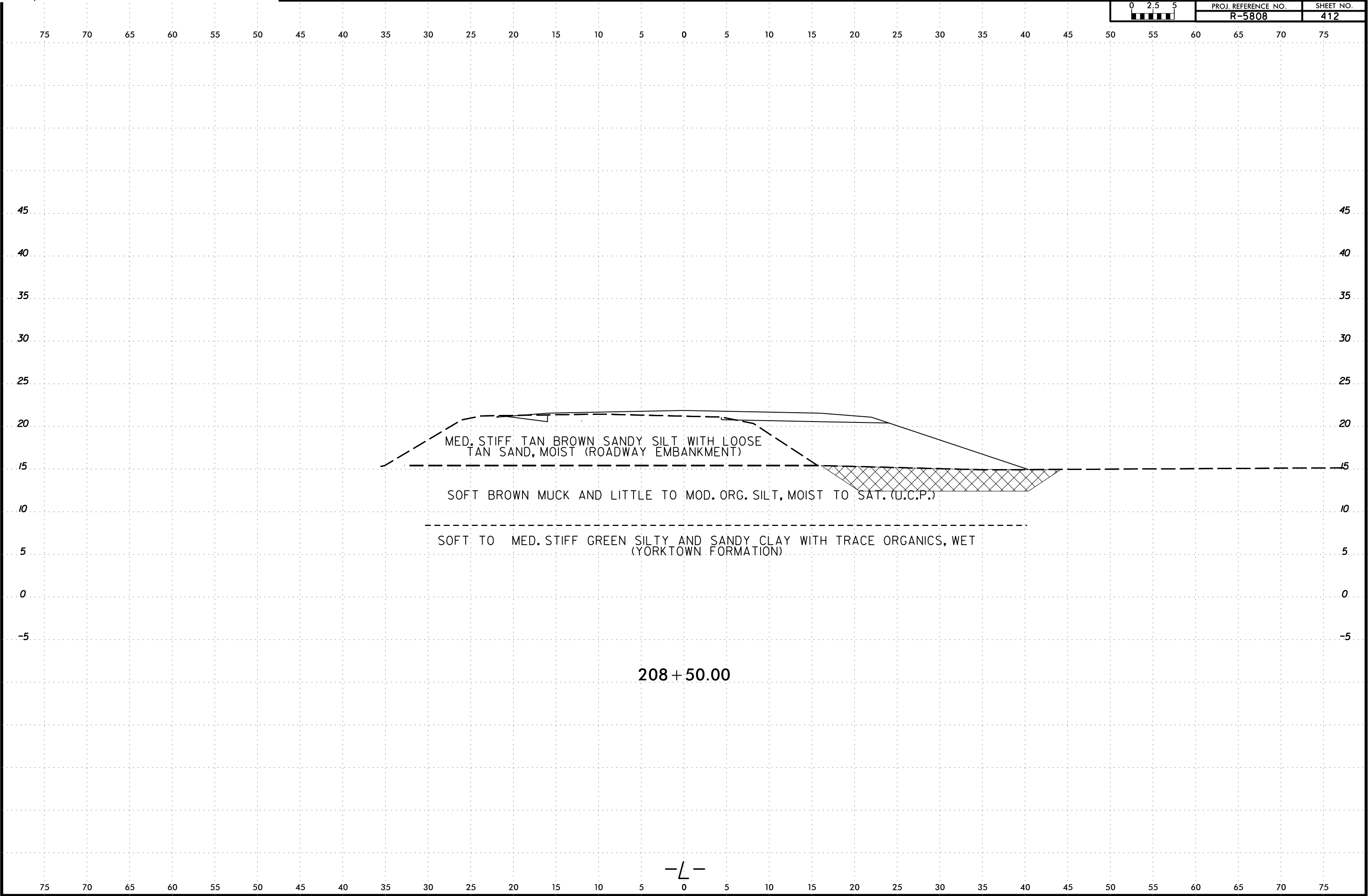
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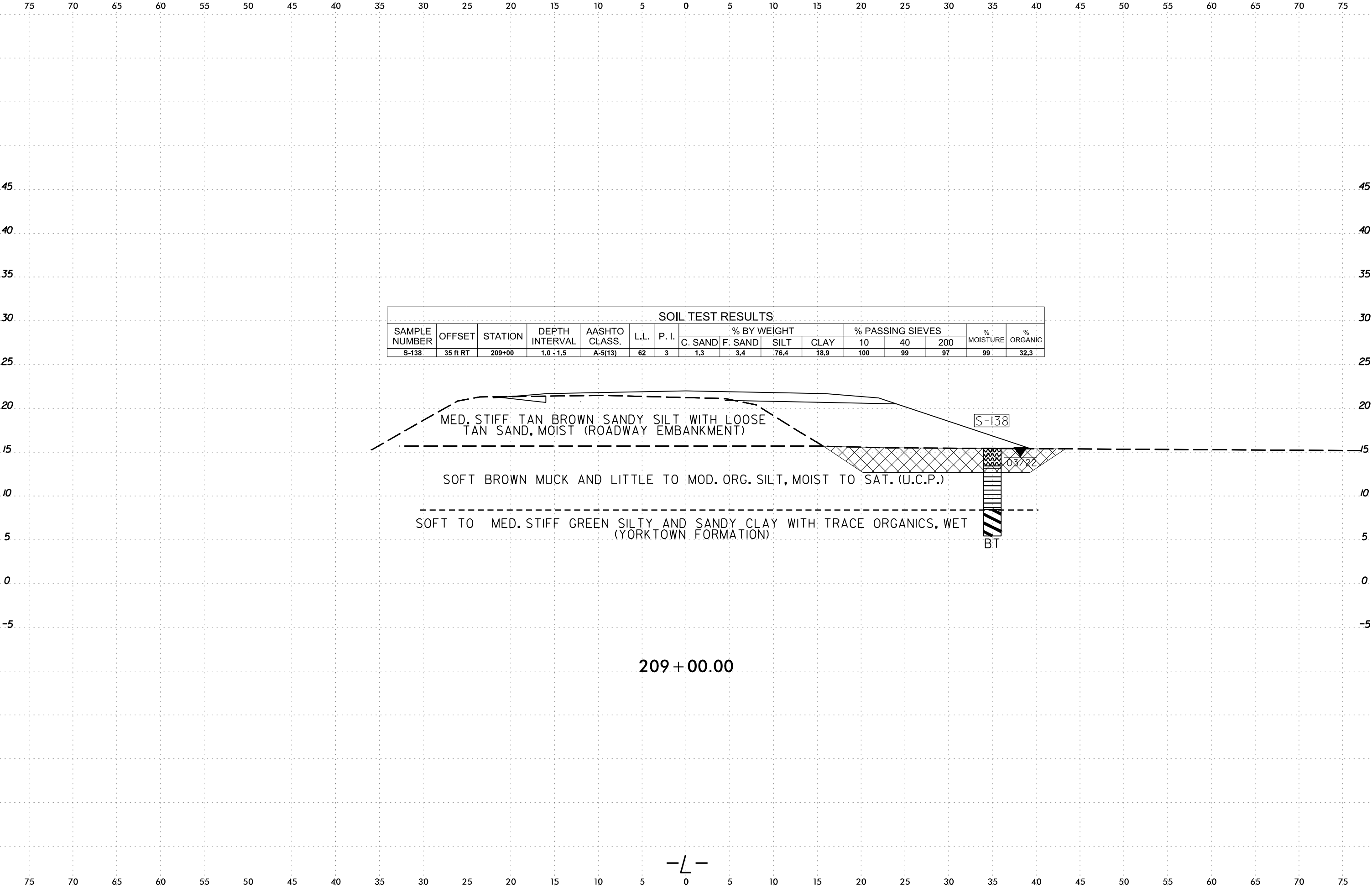
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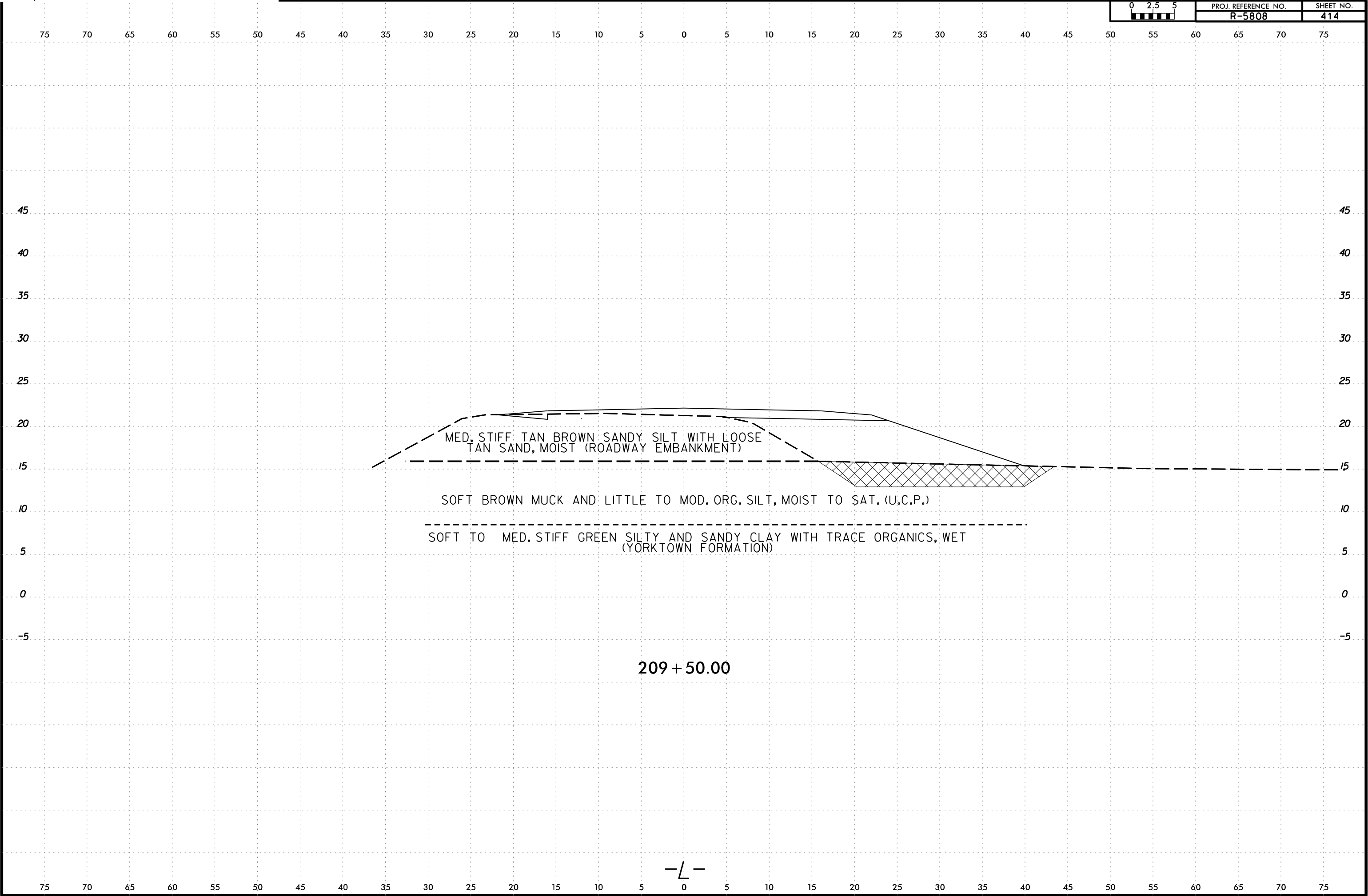


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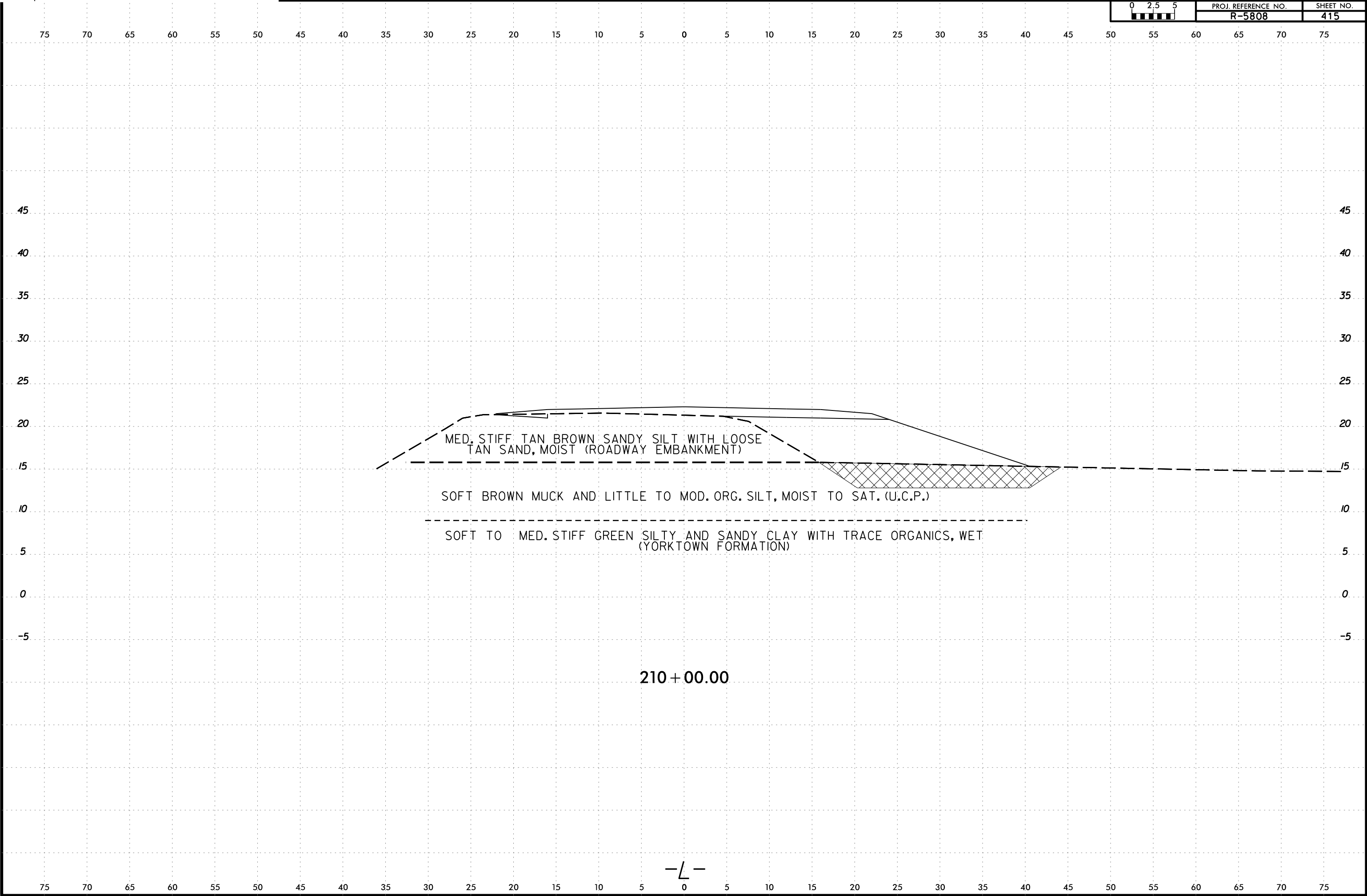


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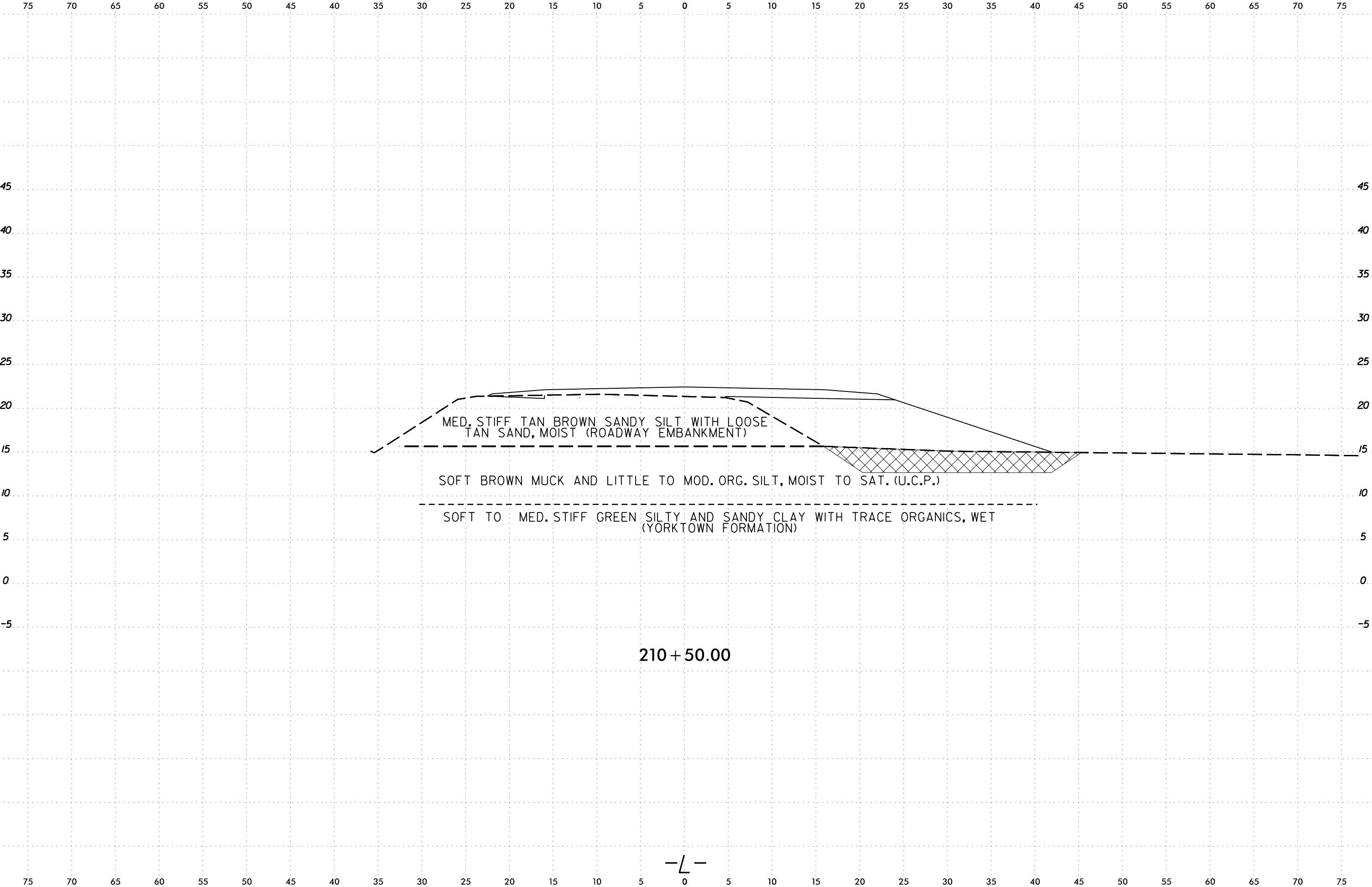


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SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-139	35 ft RT	211+00	0.5 - 1.5	A-5(13)	58	4	1.5	4.9	79.6	14.0	99.2	99	97	90	24.4
S-140	35 ft RT	211+00	6.5 - 7.0	A-6(10)	28	11	0.1	11.8	64.1	23.9	99.9	100	98	-	-

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

S-139
S-140

03/22

BT

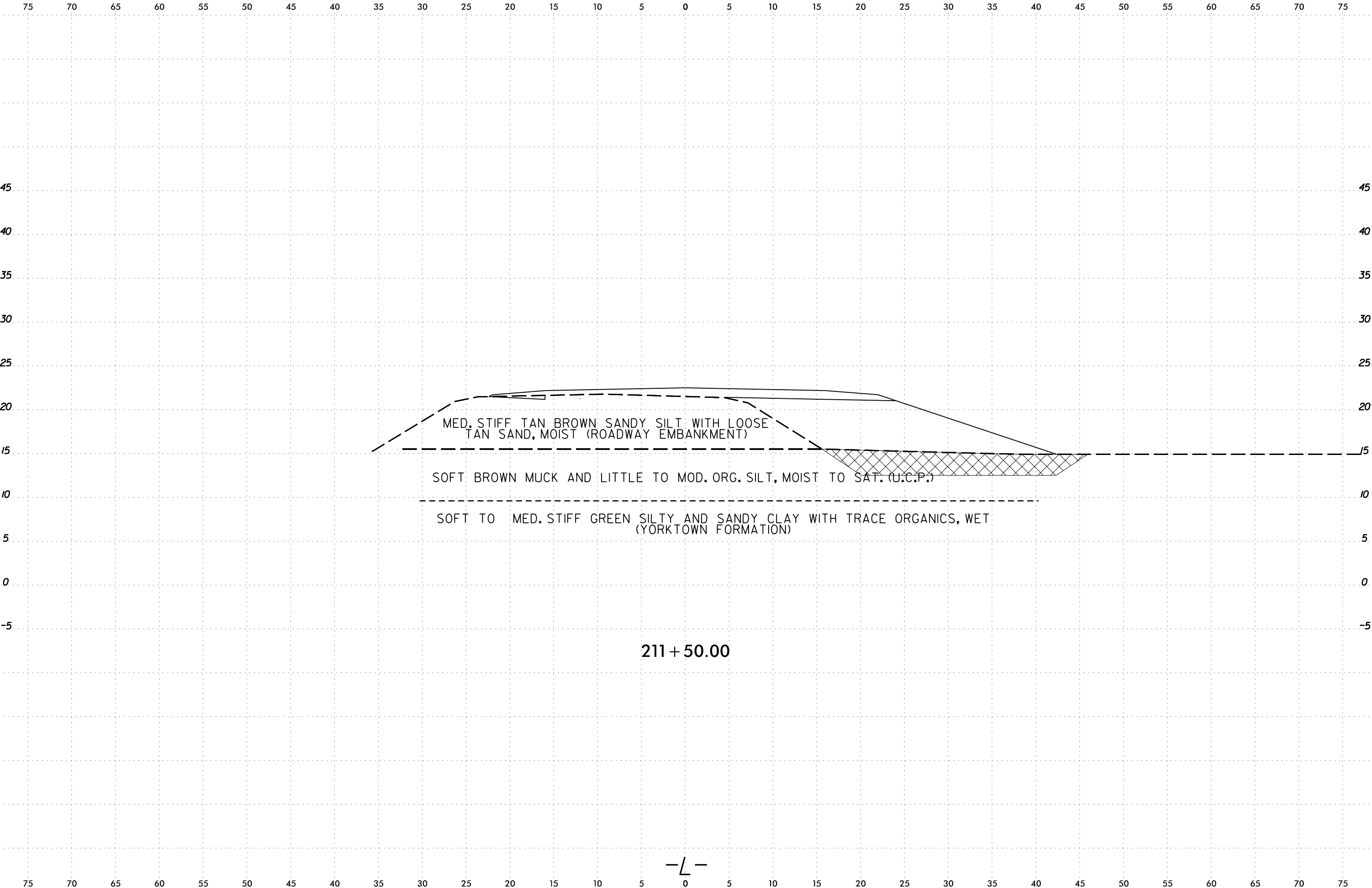
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AT CAT-STONE-18

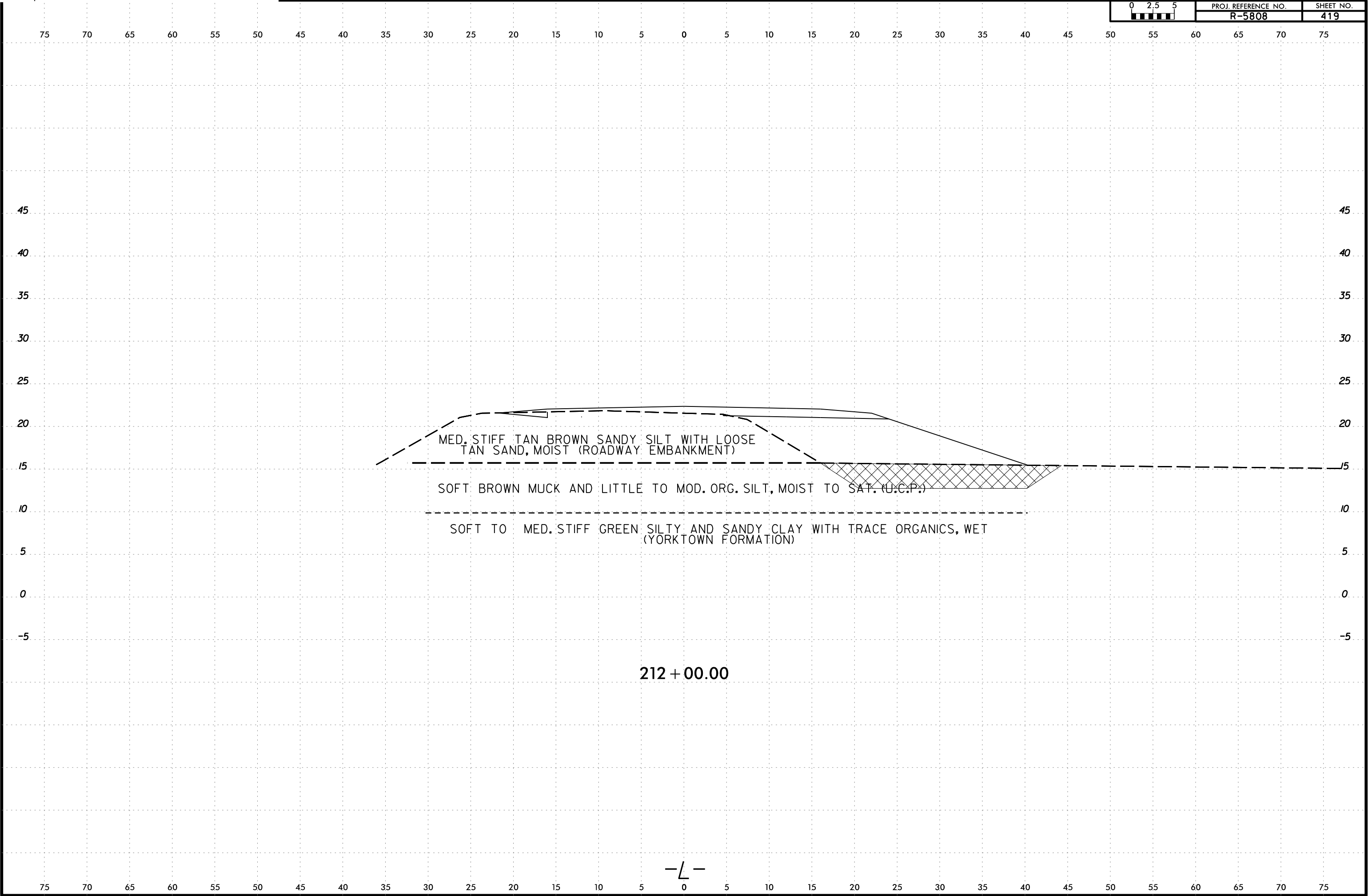
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AT CAT-1 STONE-18

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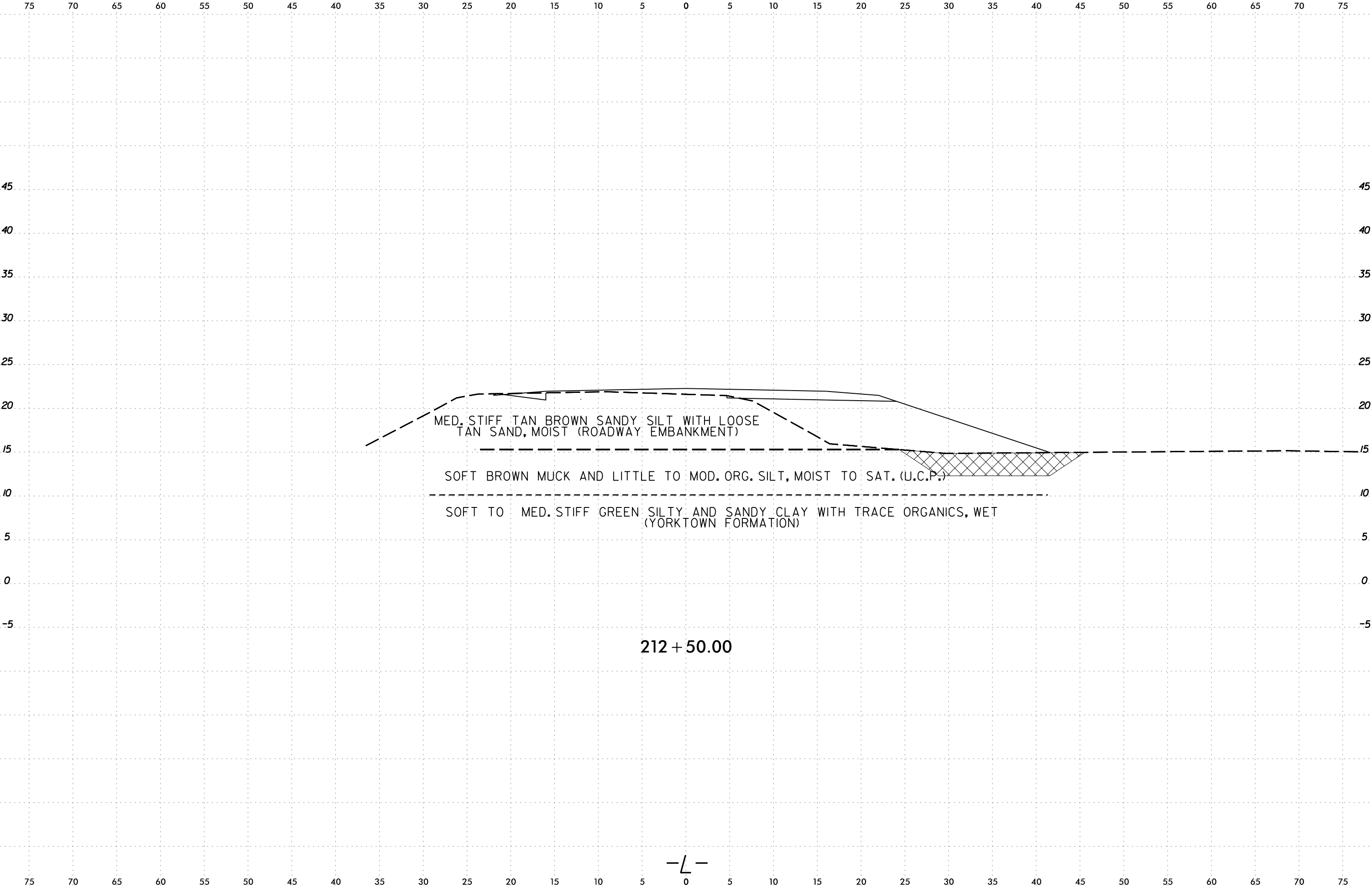


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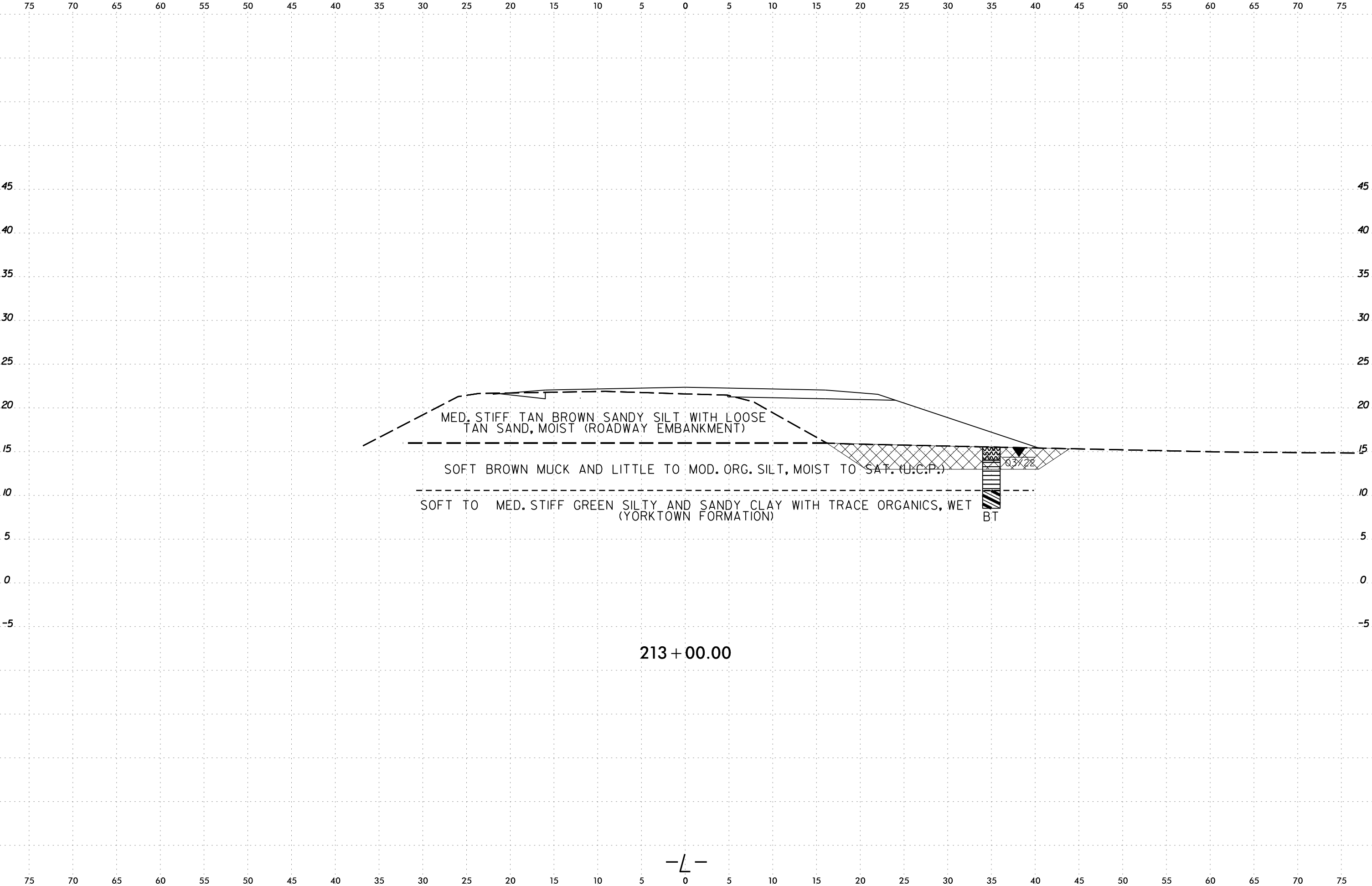
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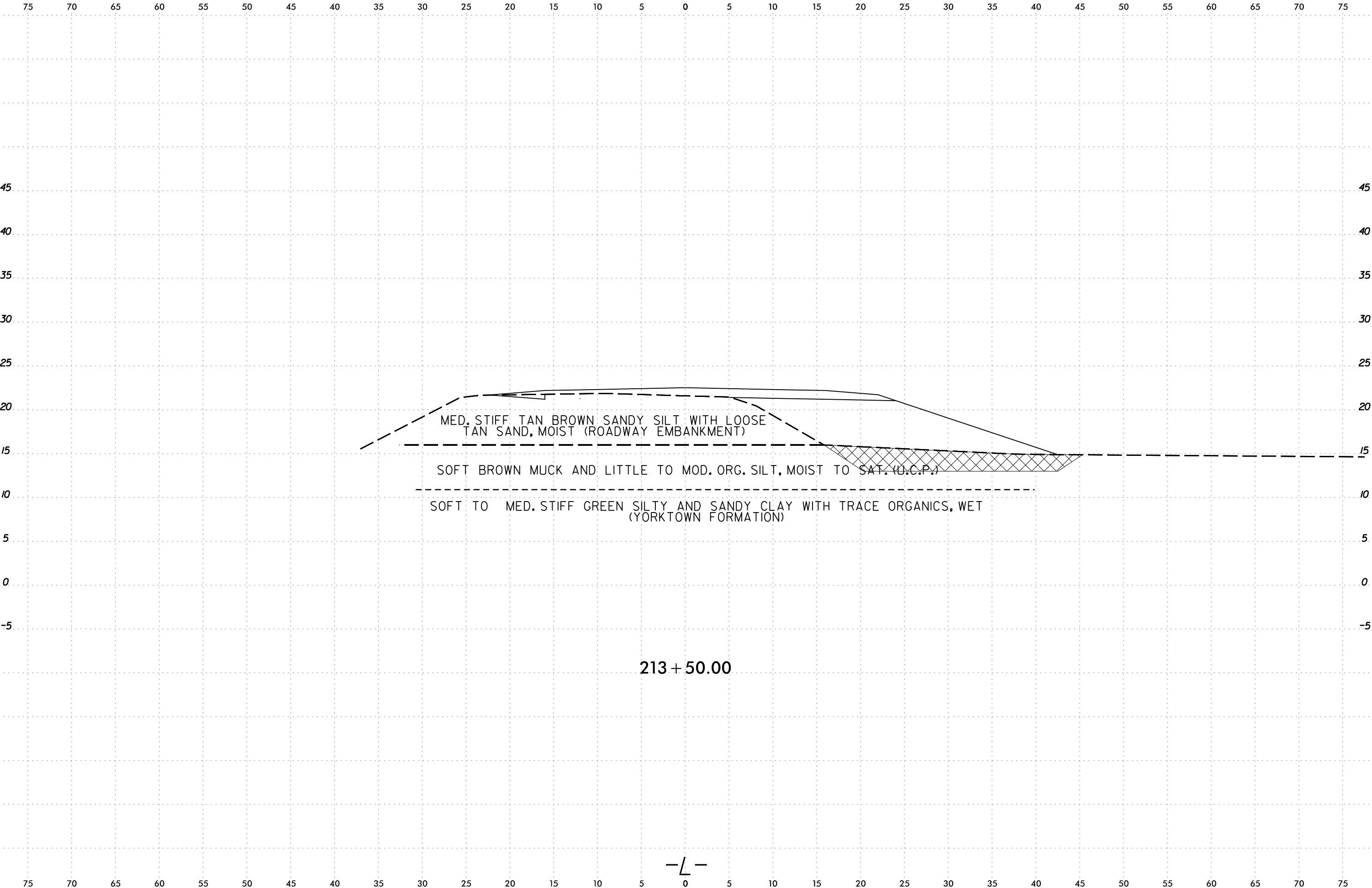


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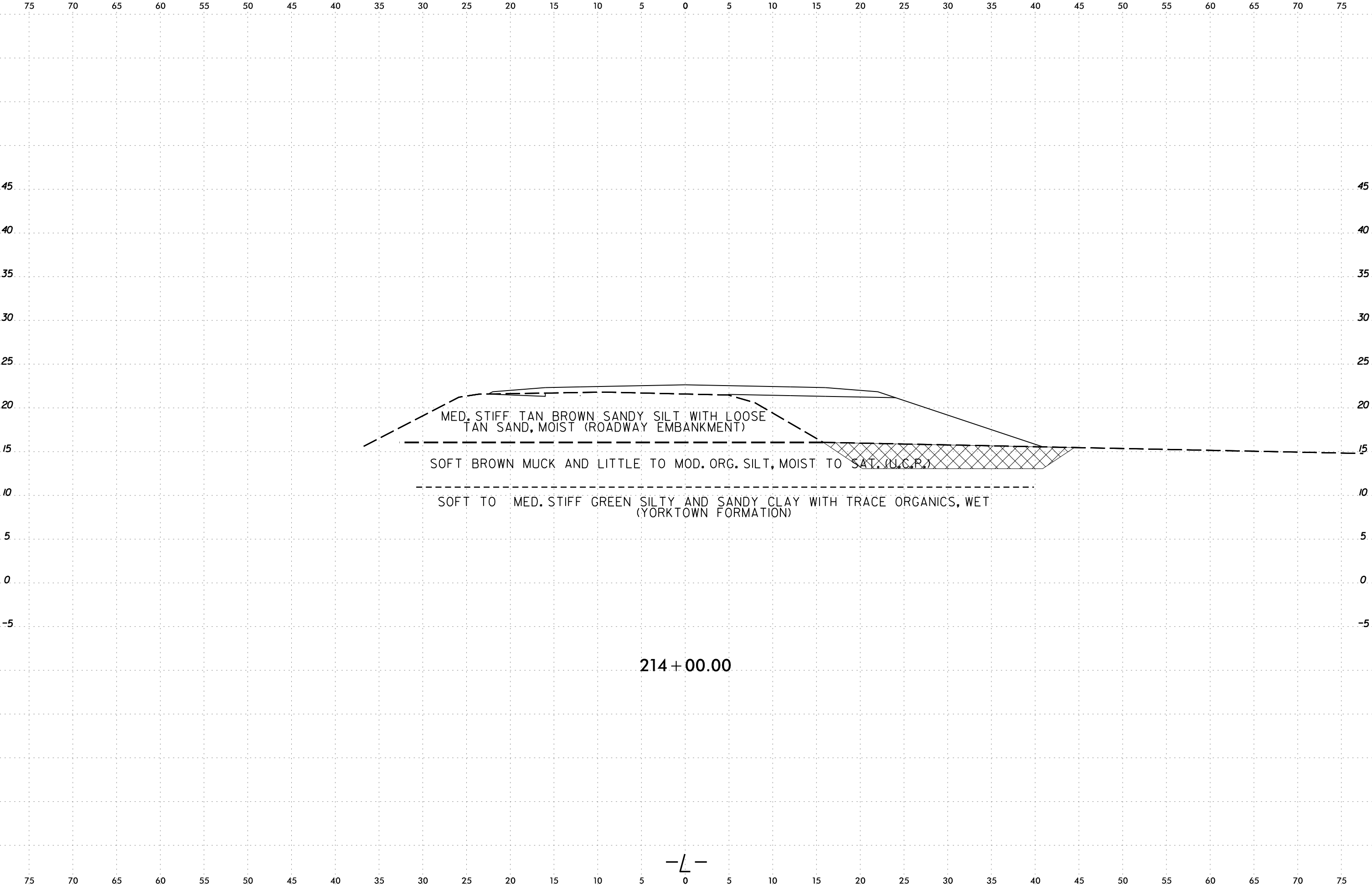
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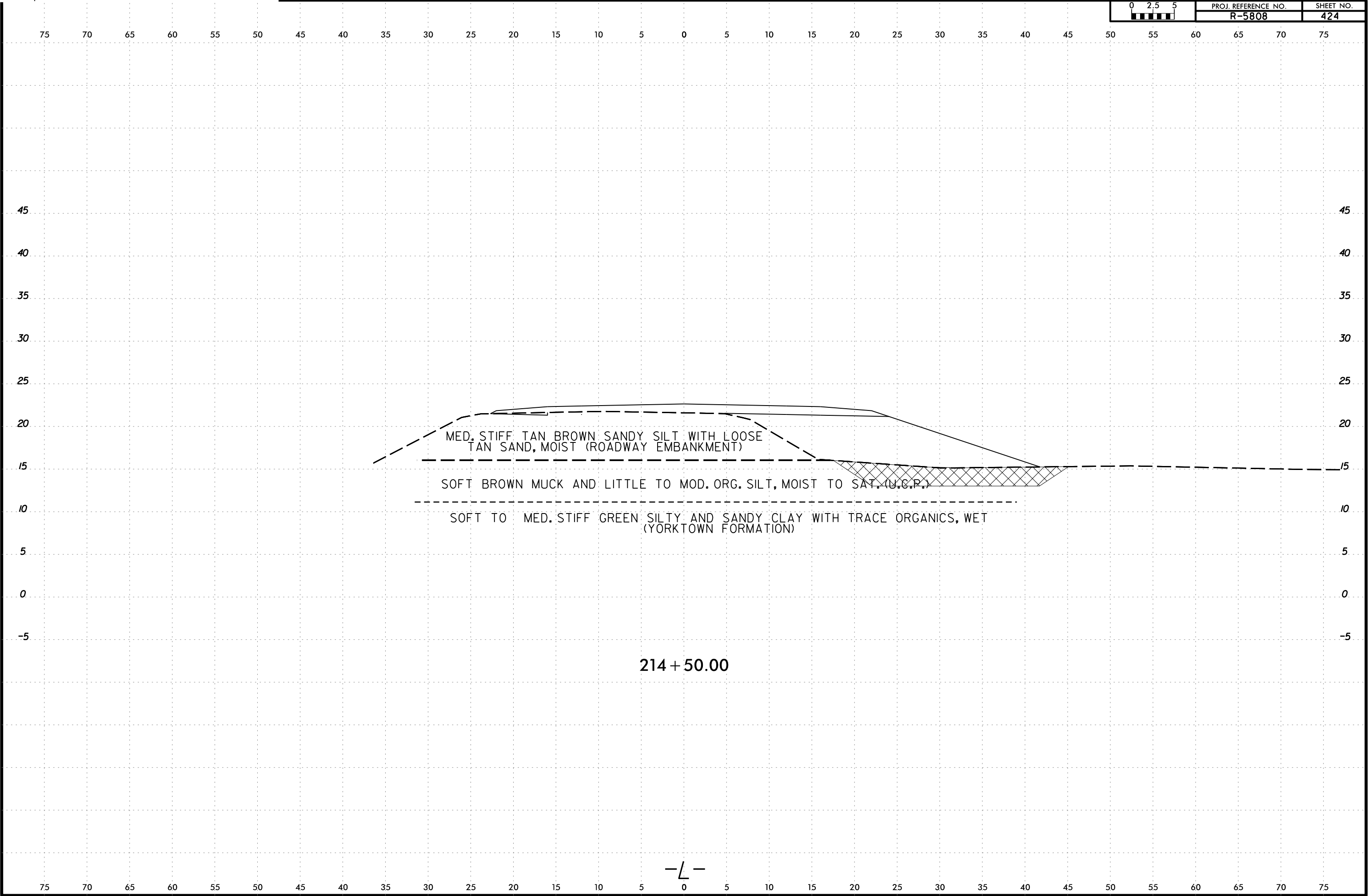
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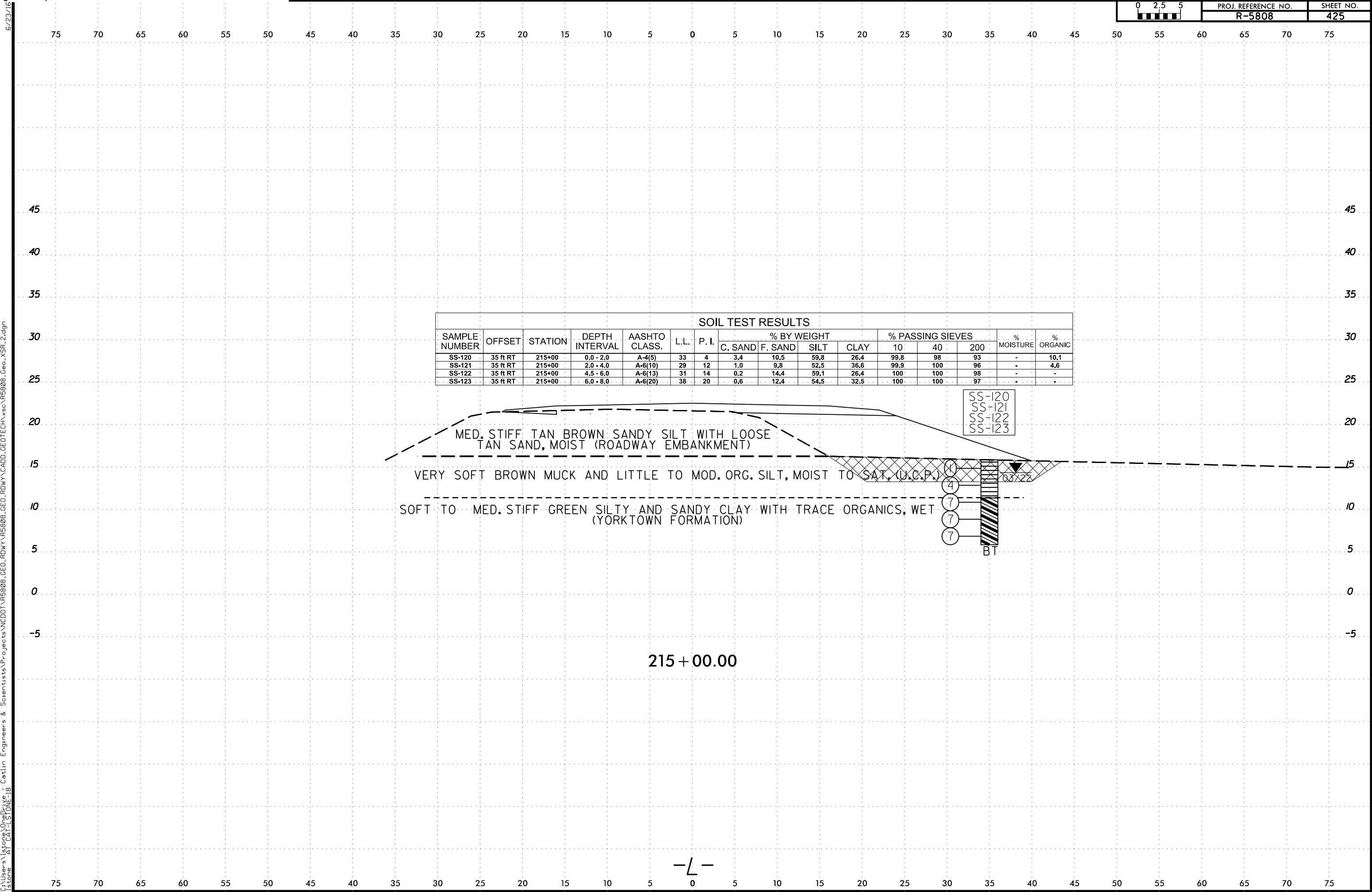
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AT CAT-1 STONE-18

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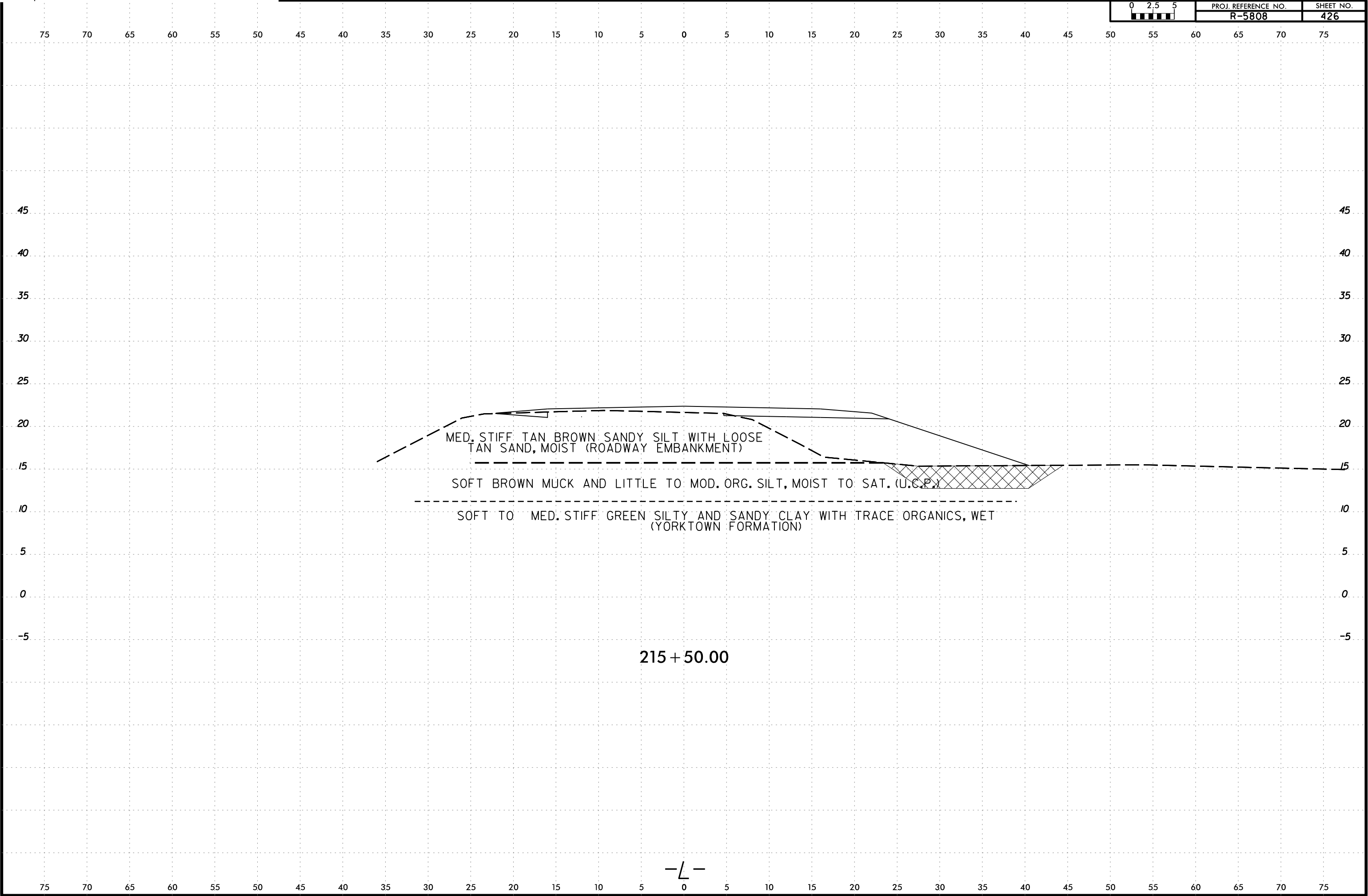
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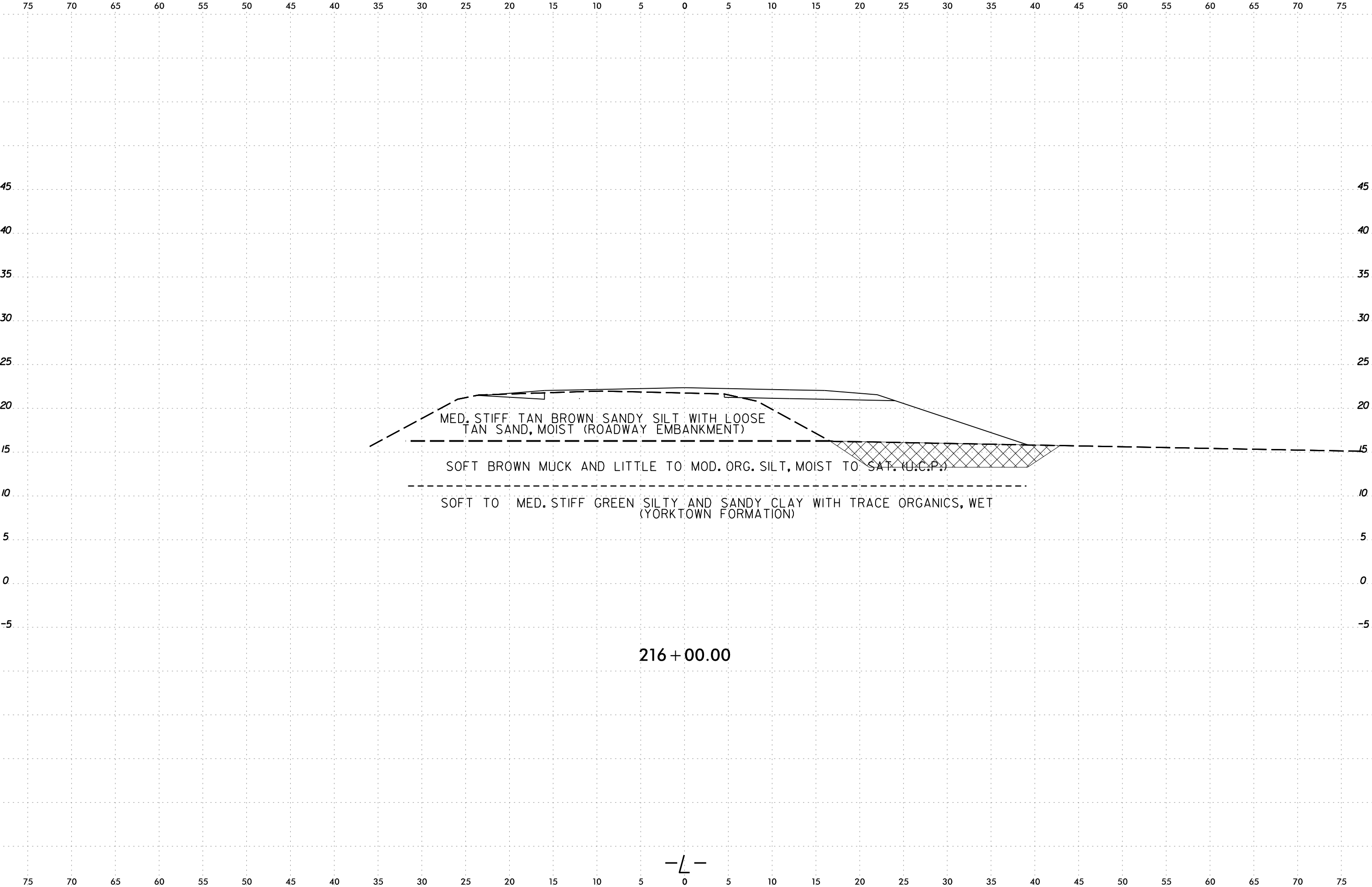


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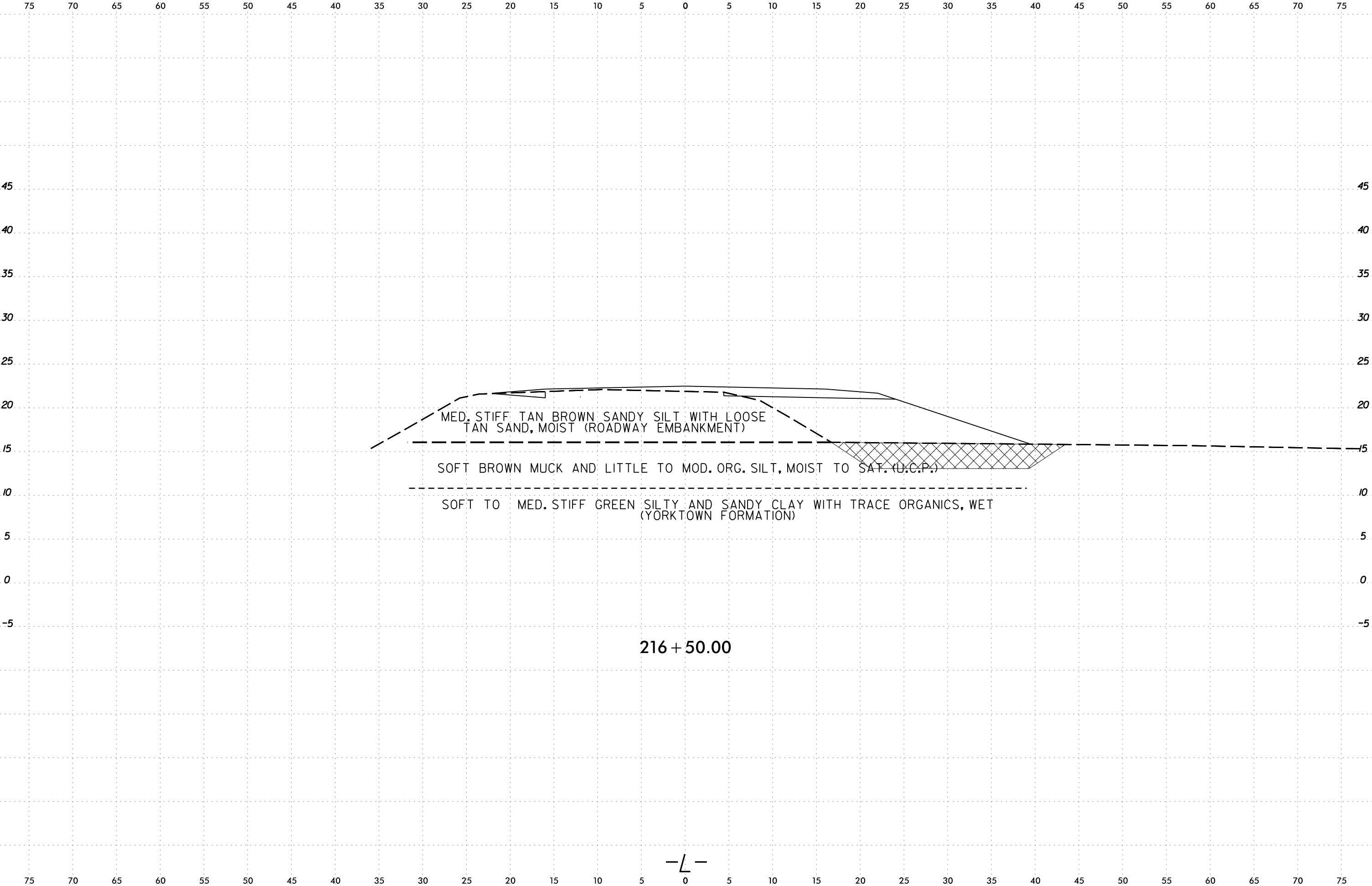


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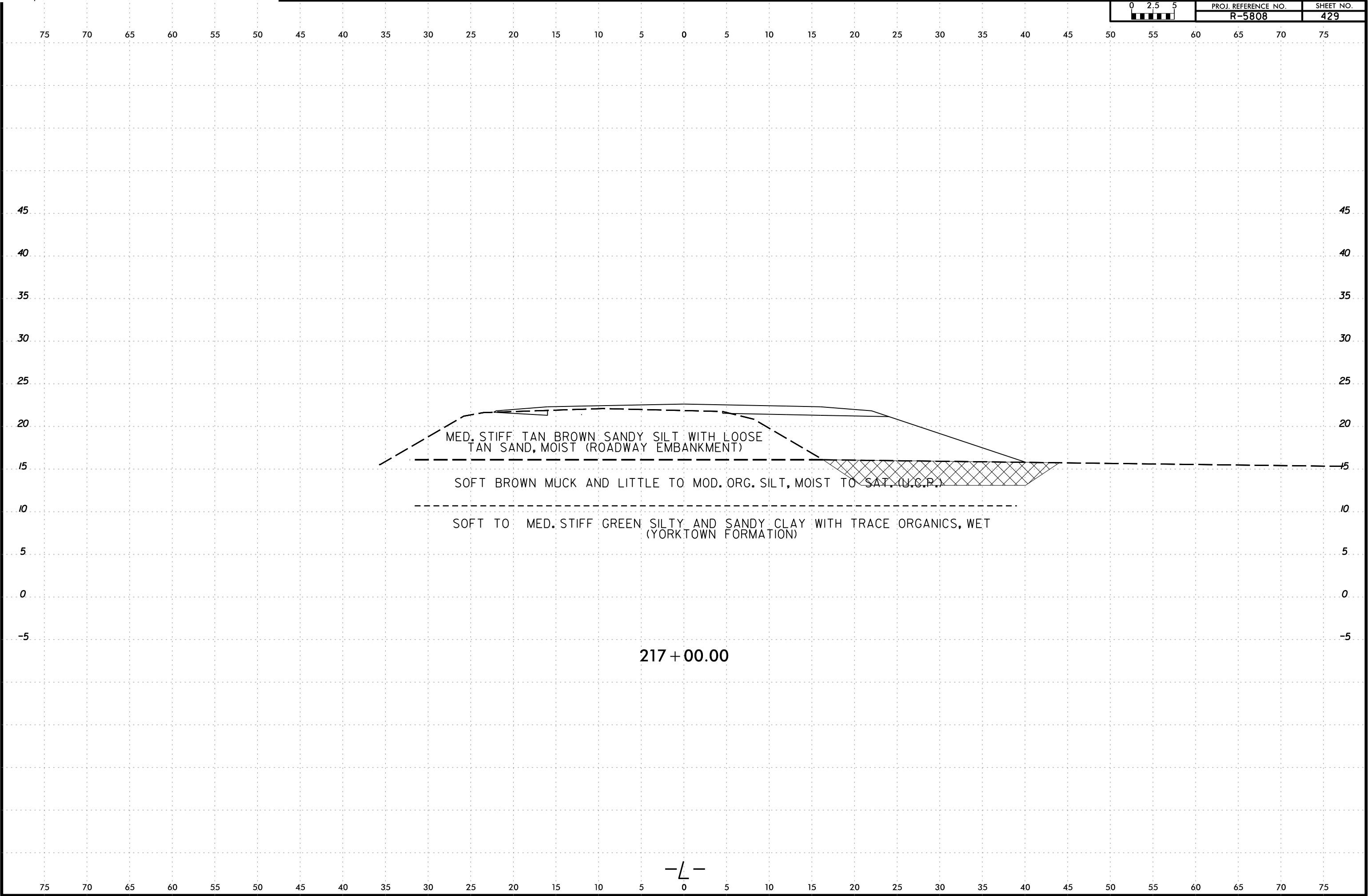


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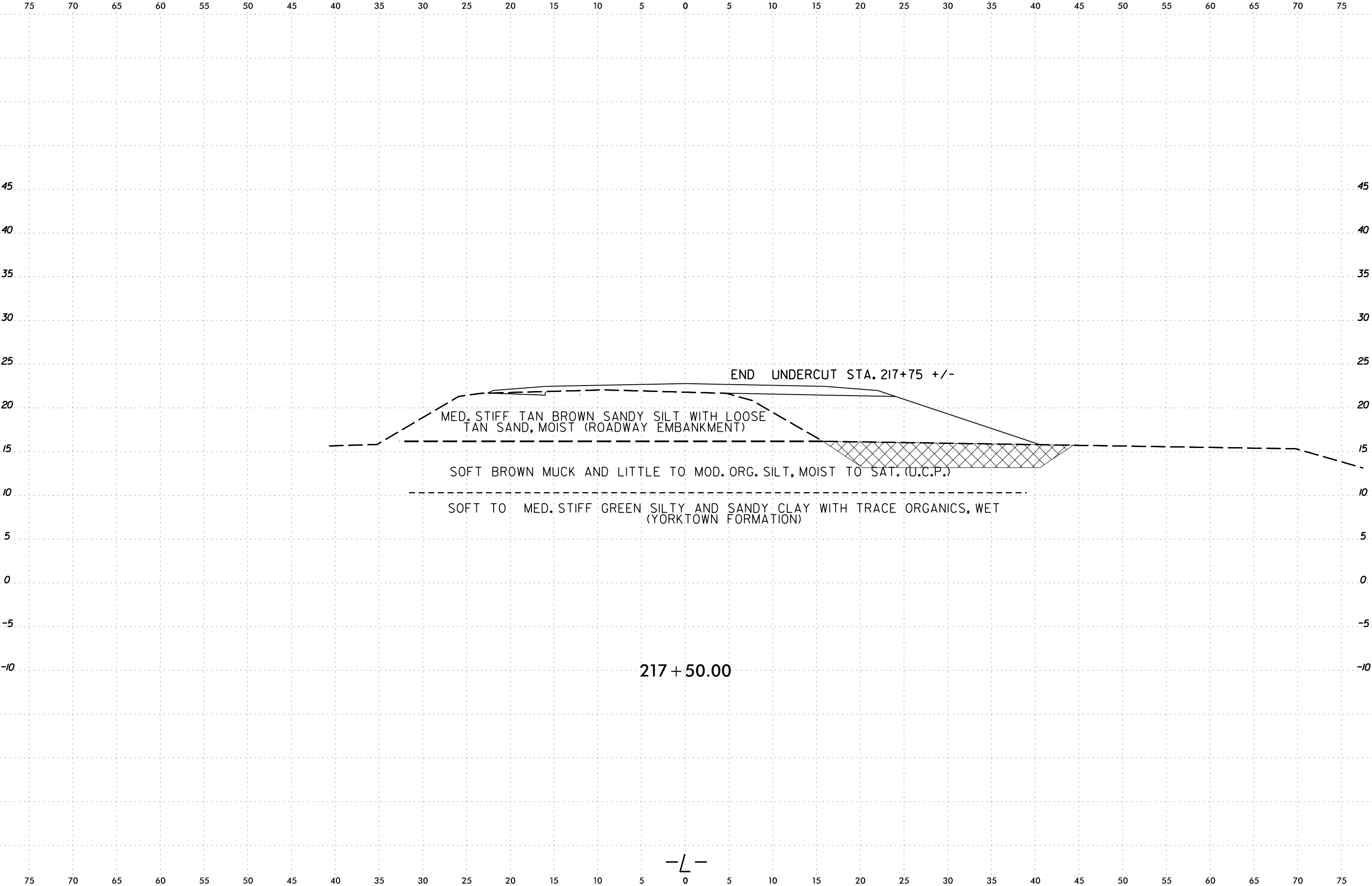
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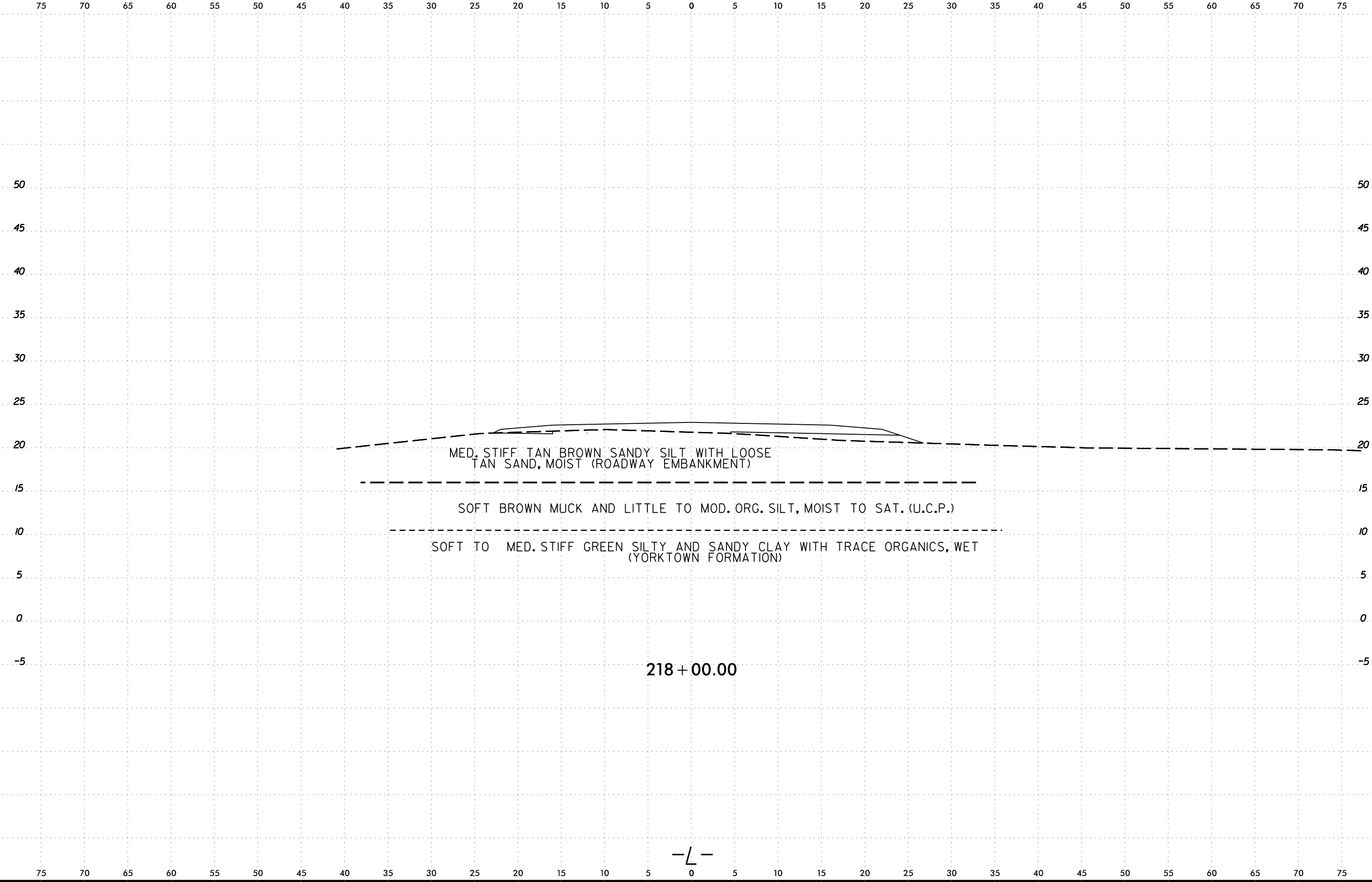


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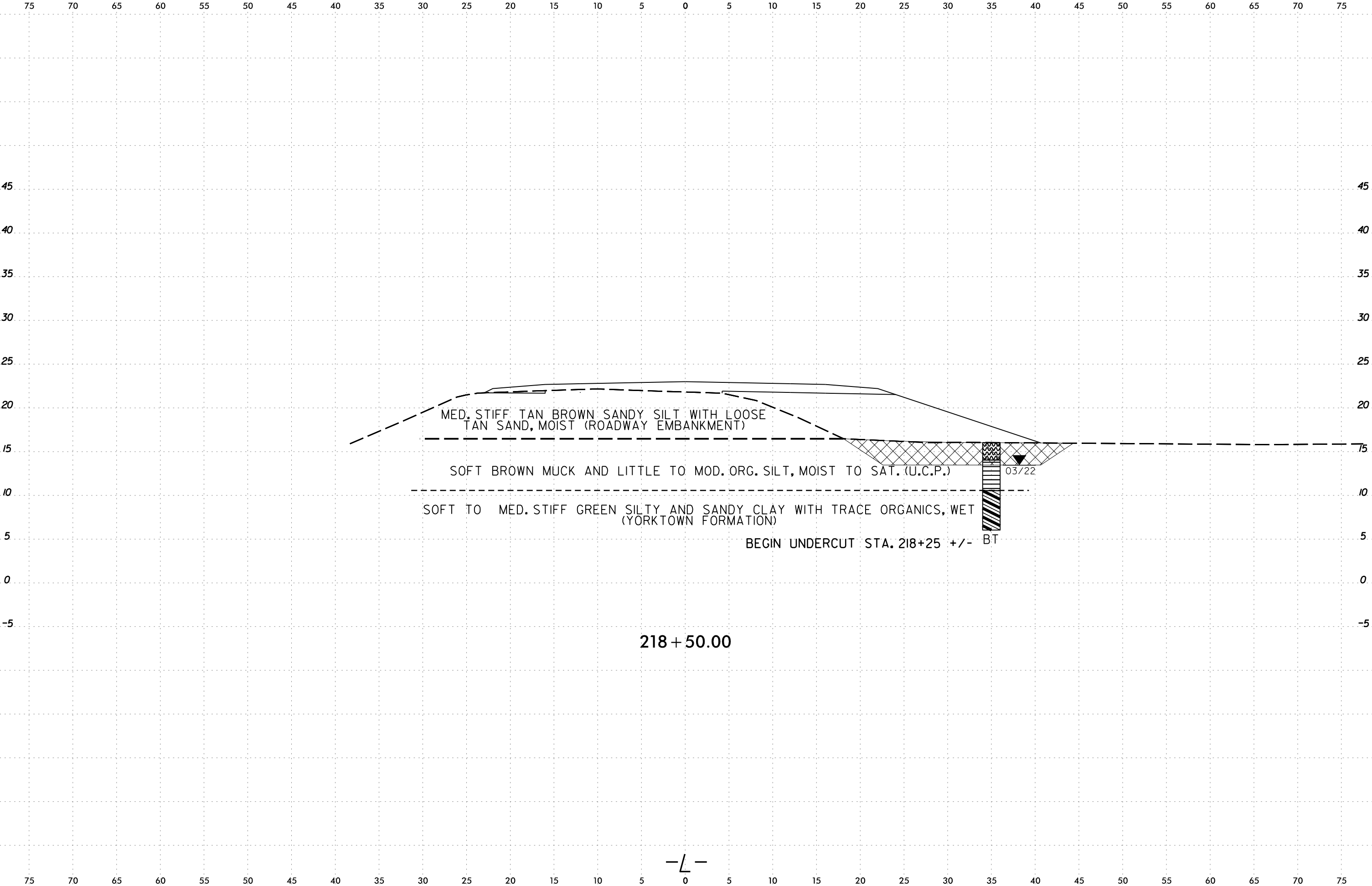
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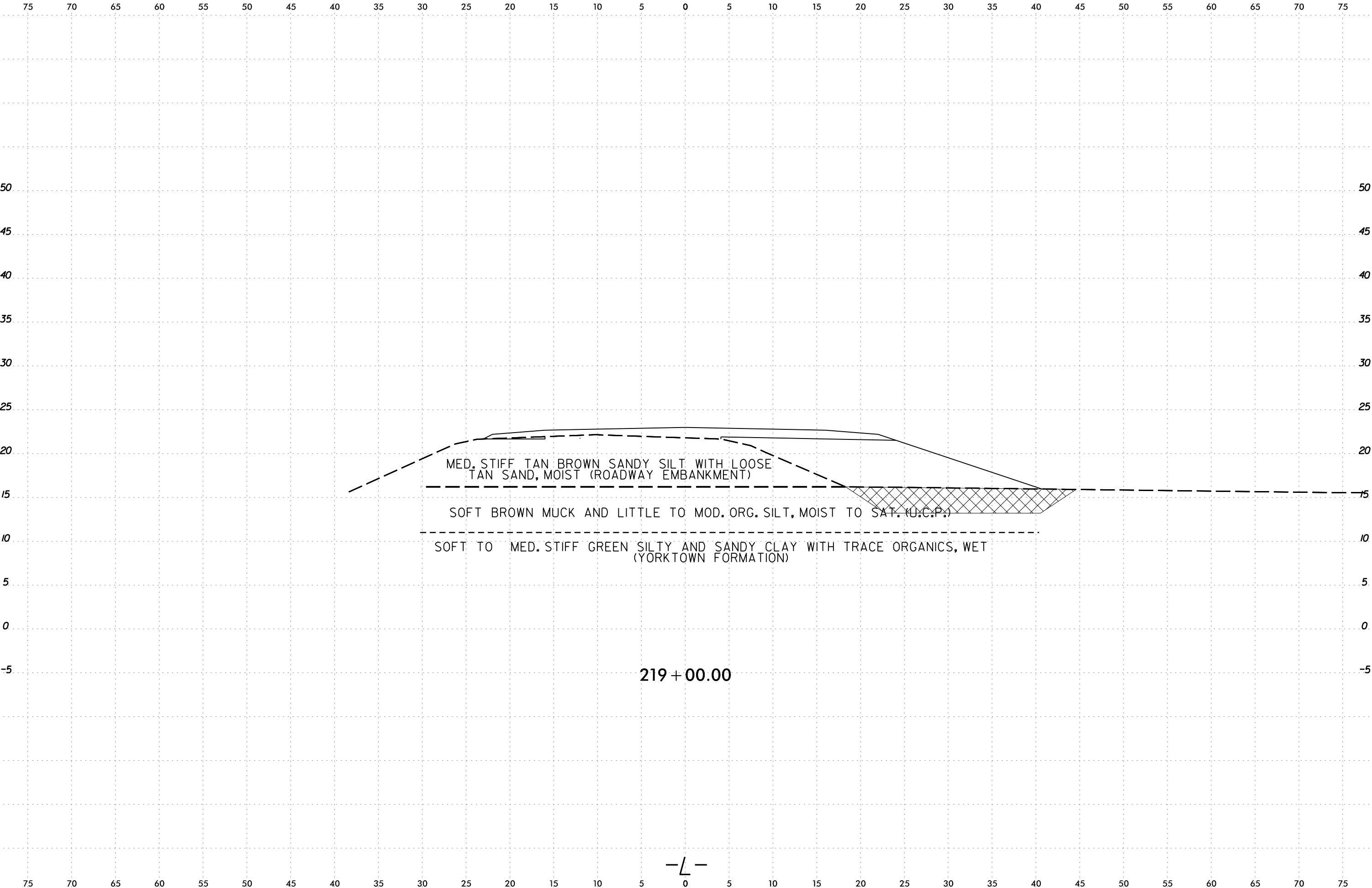


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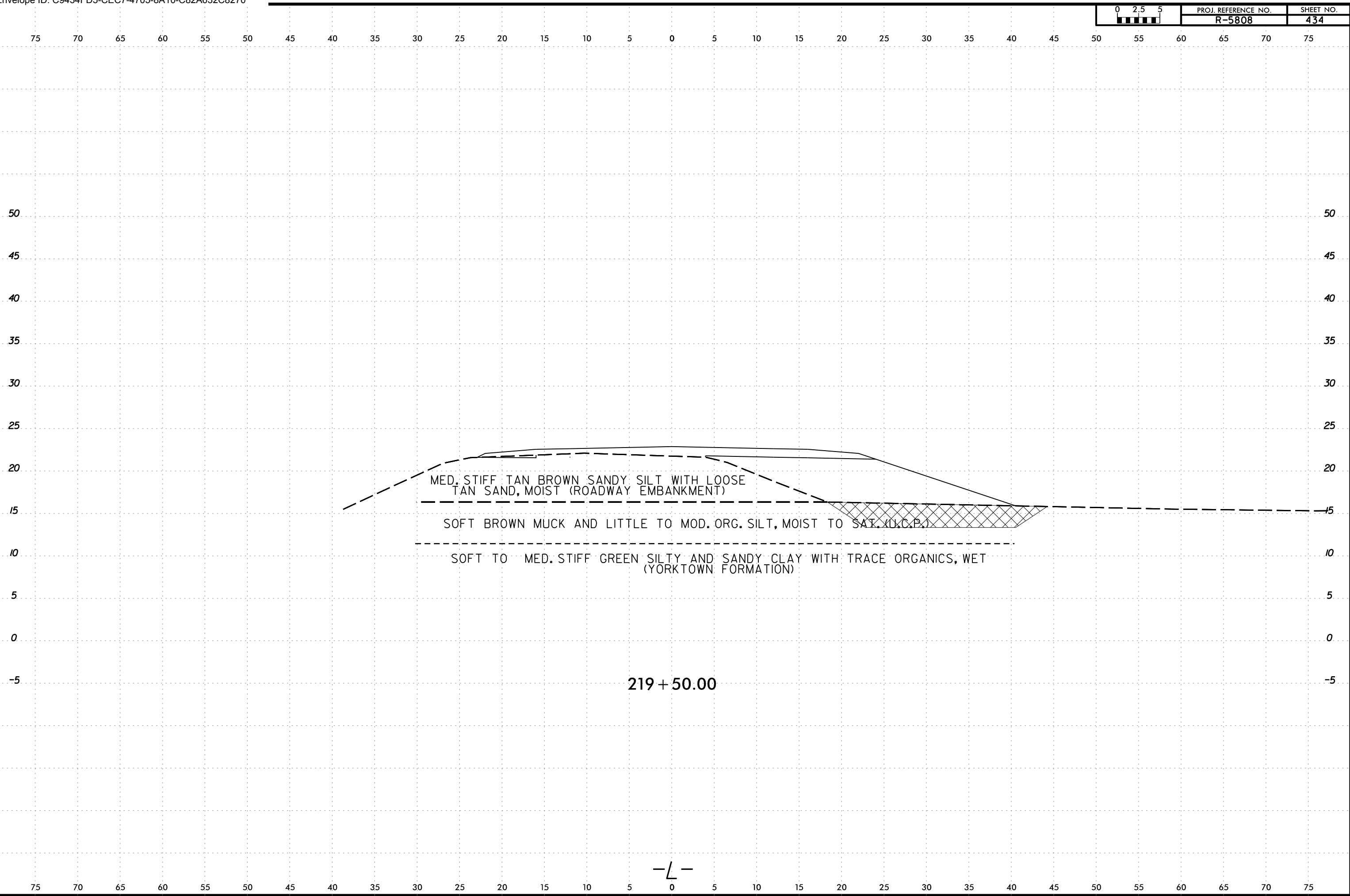
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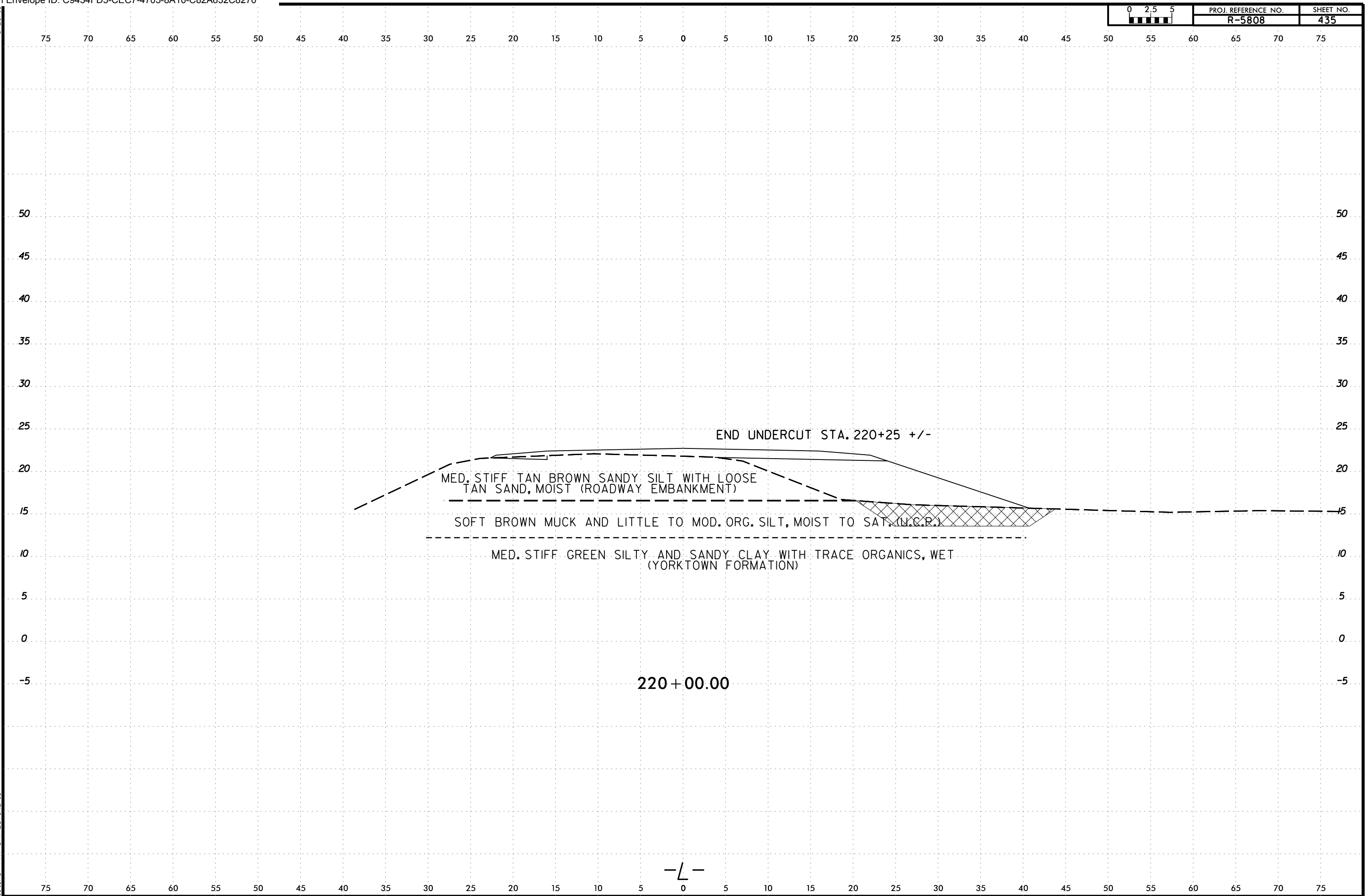
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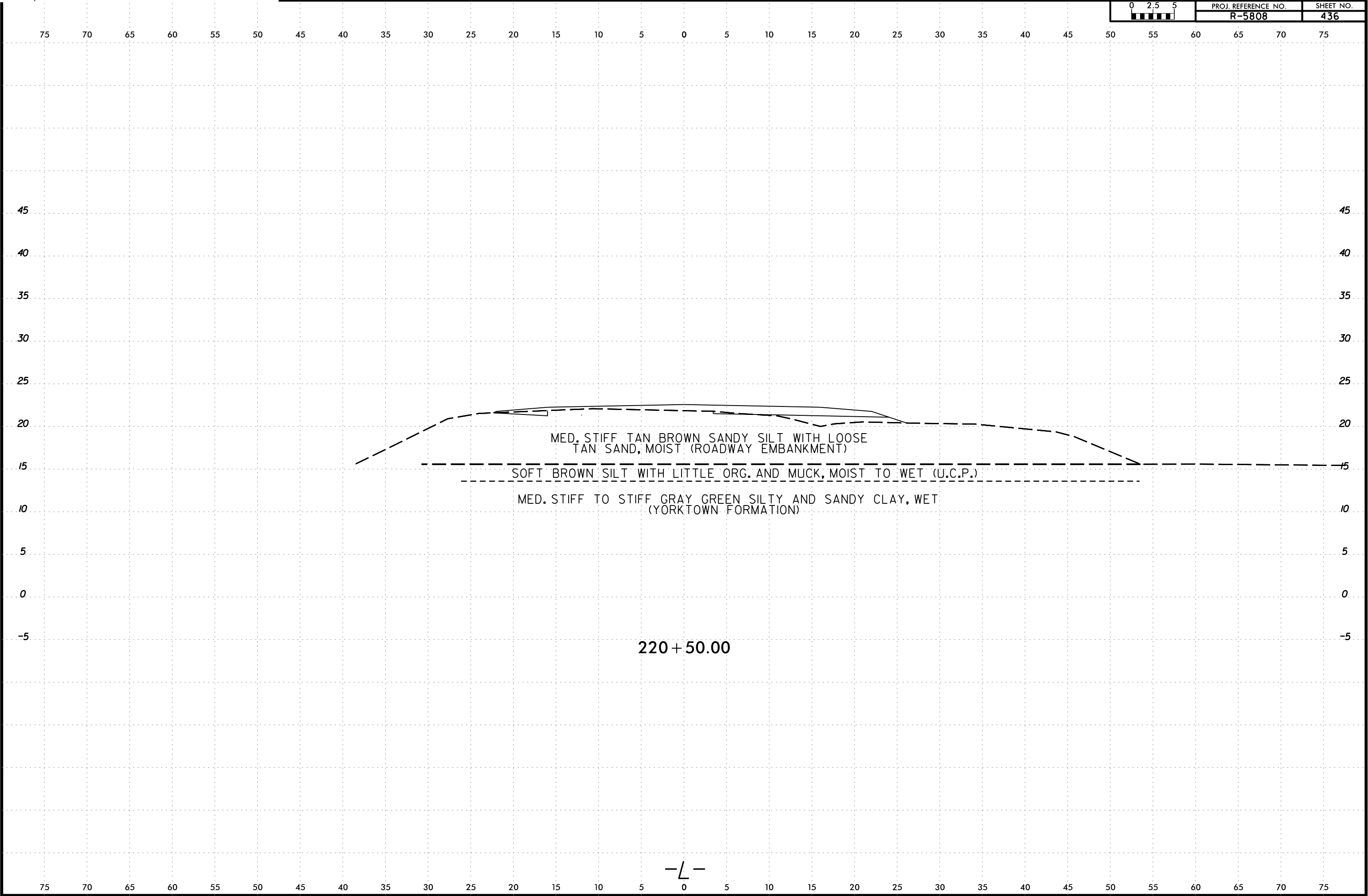




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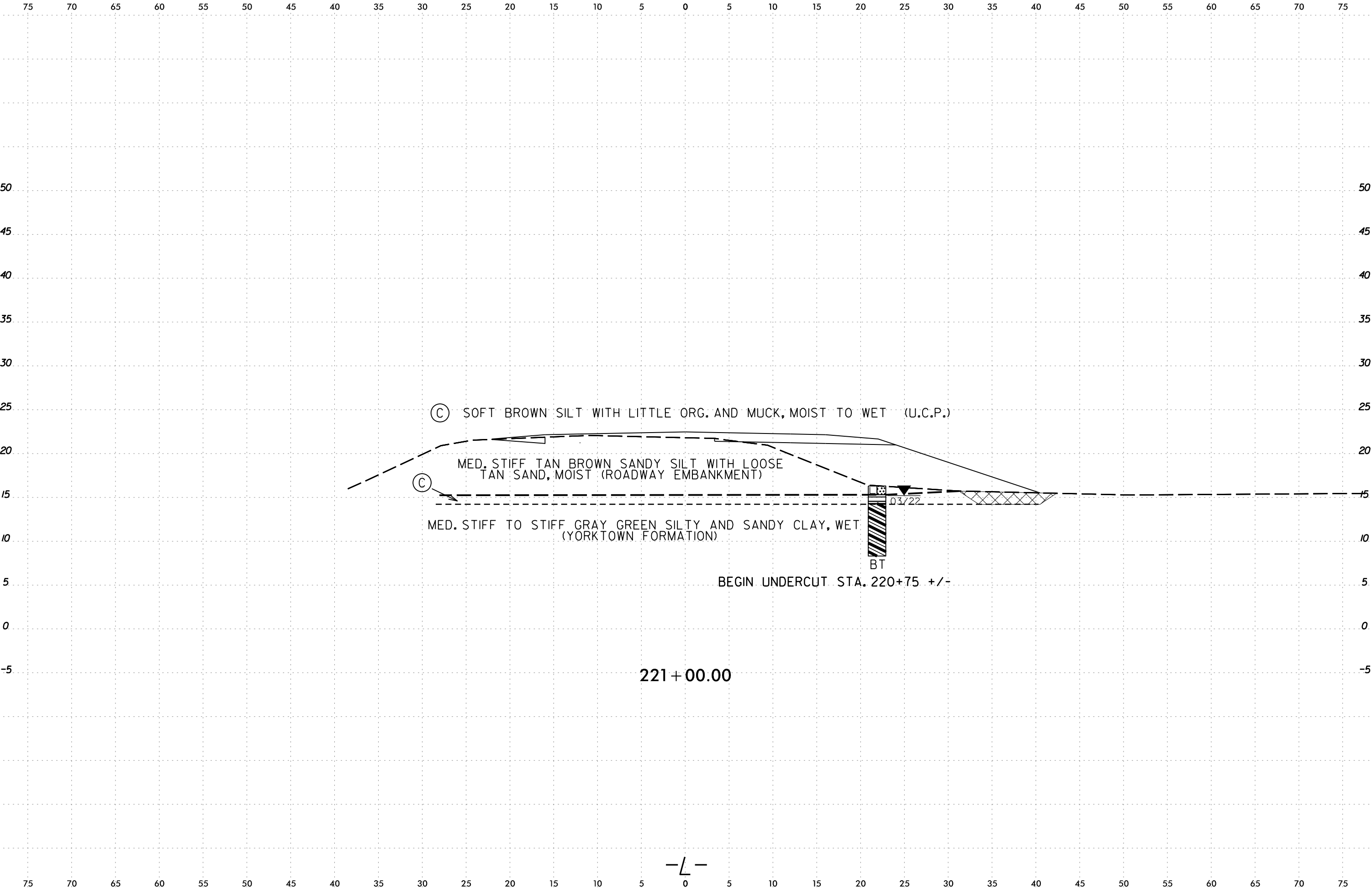
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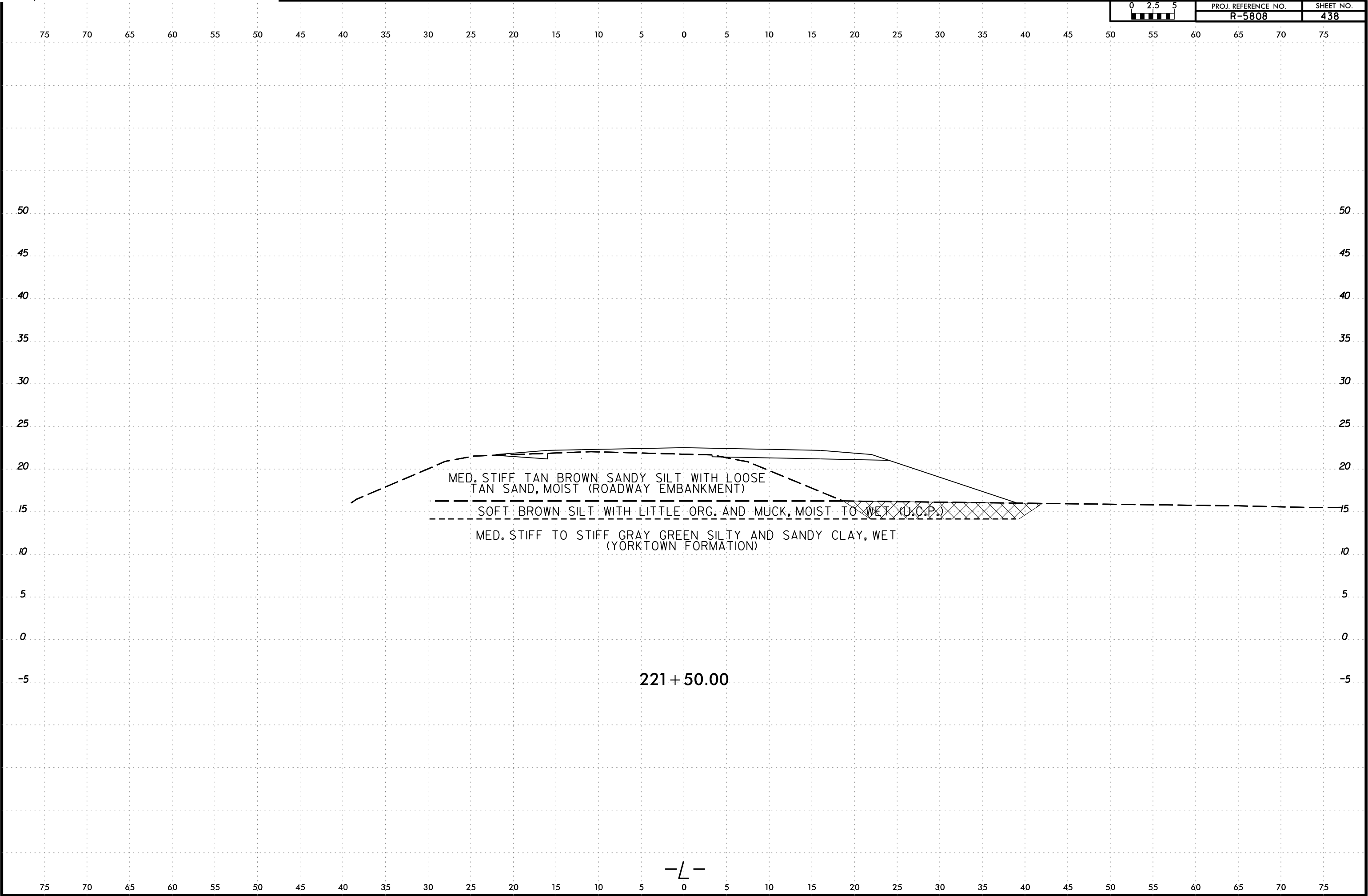


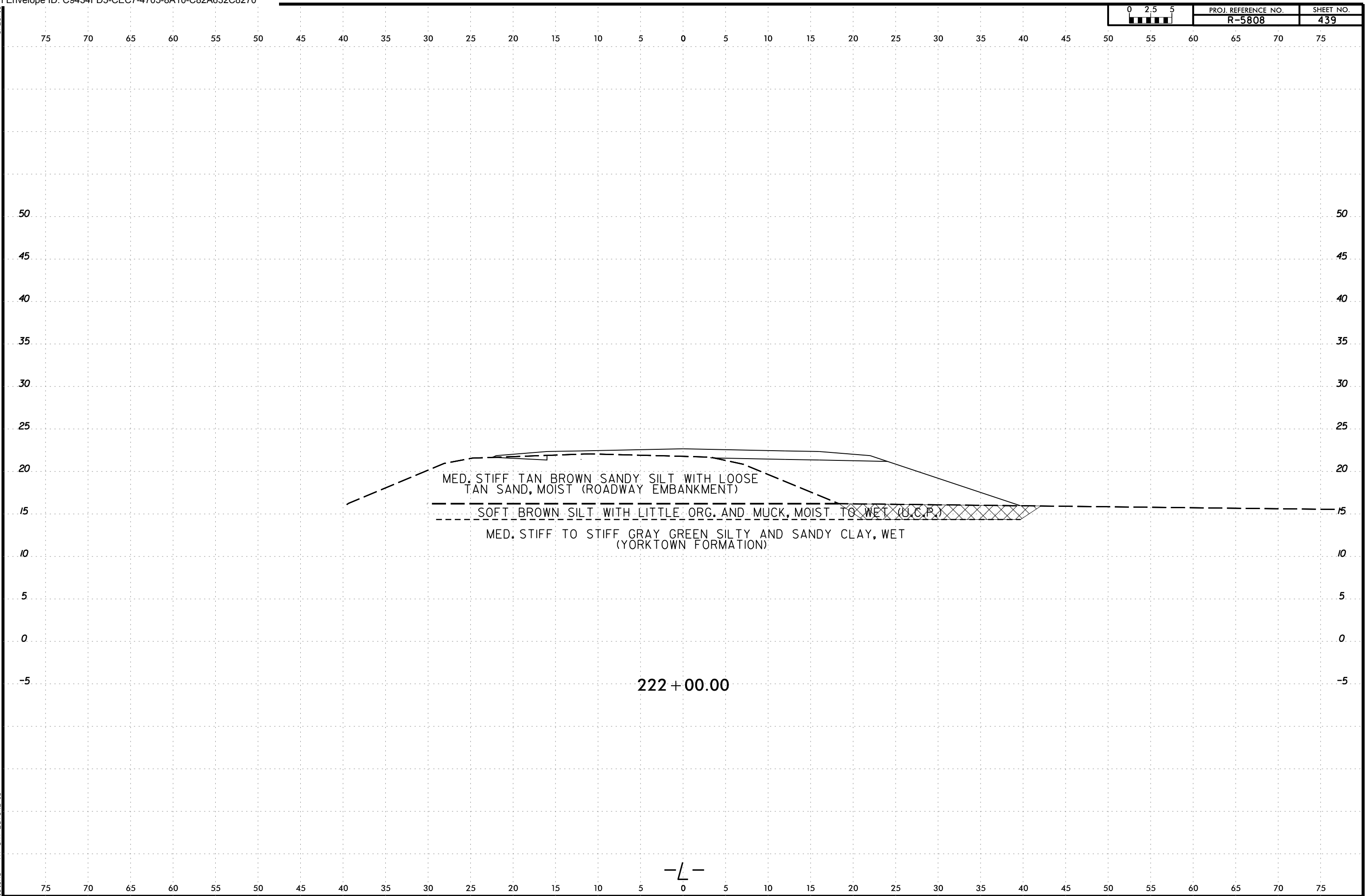
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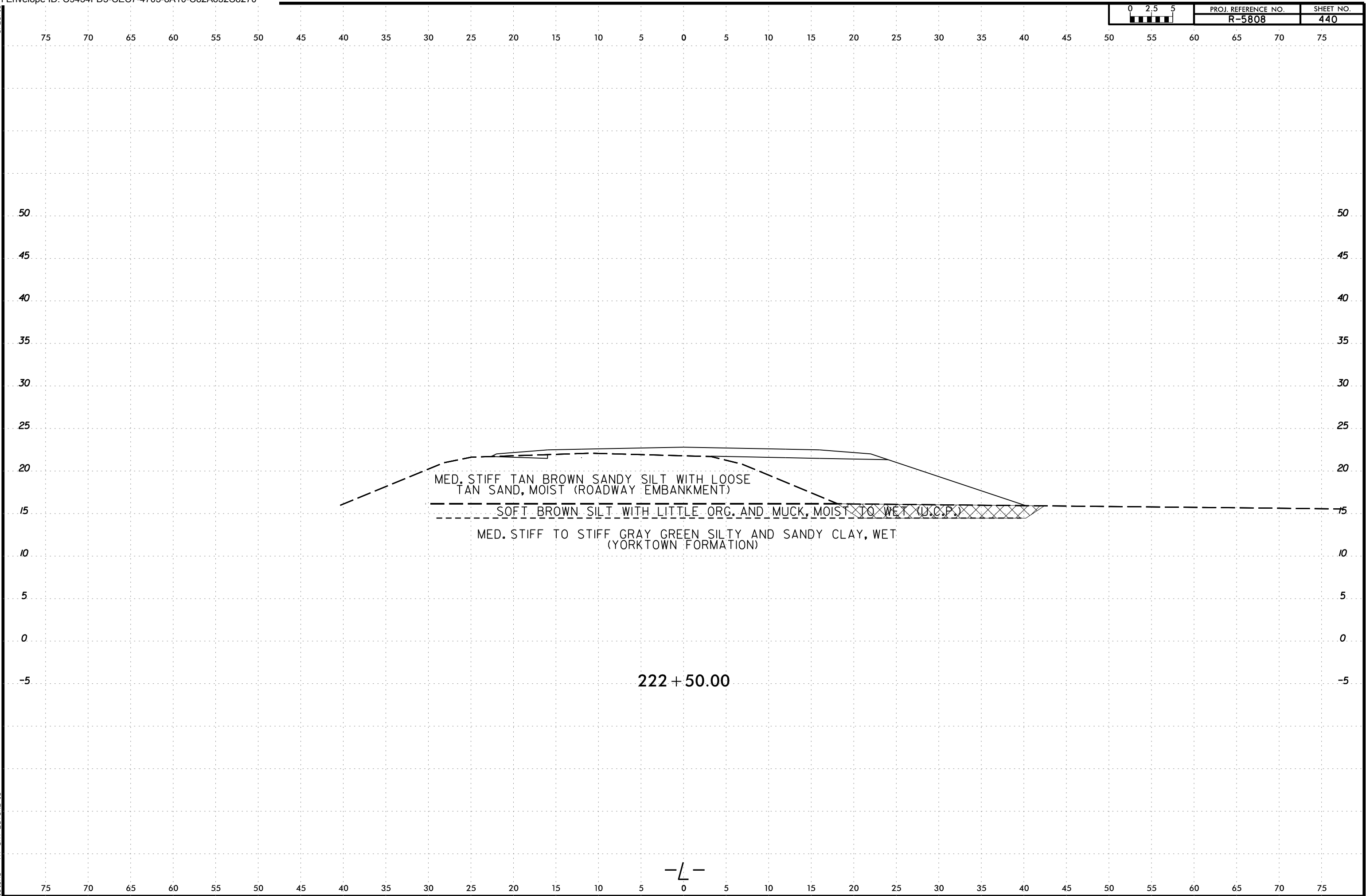
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AT CAT-1 STONE-18

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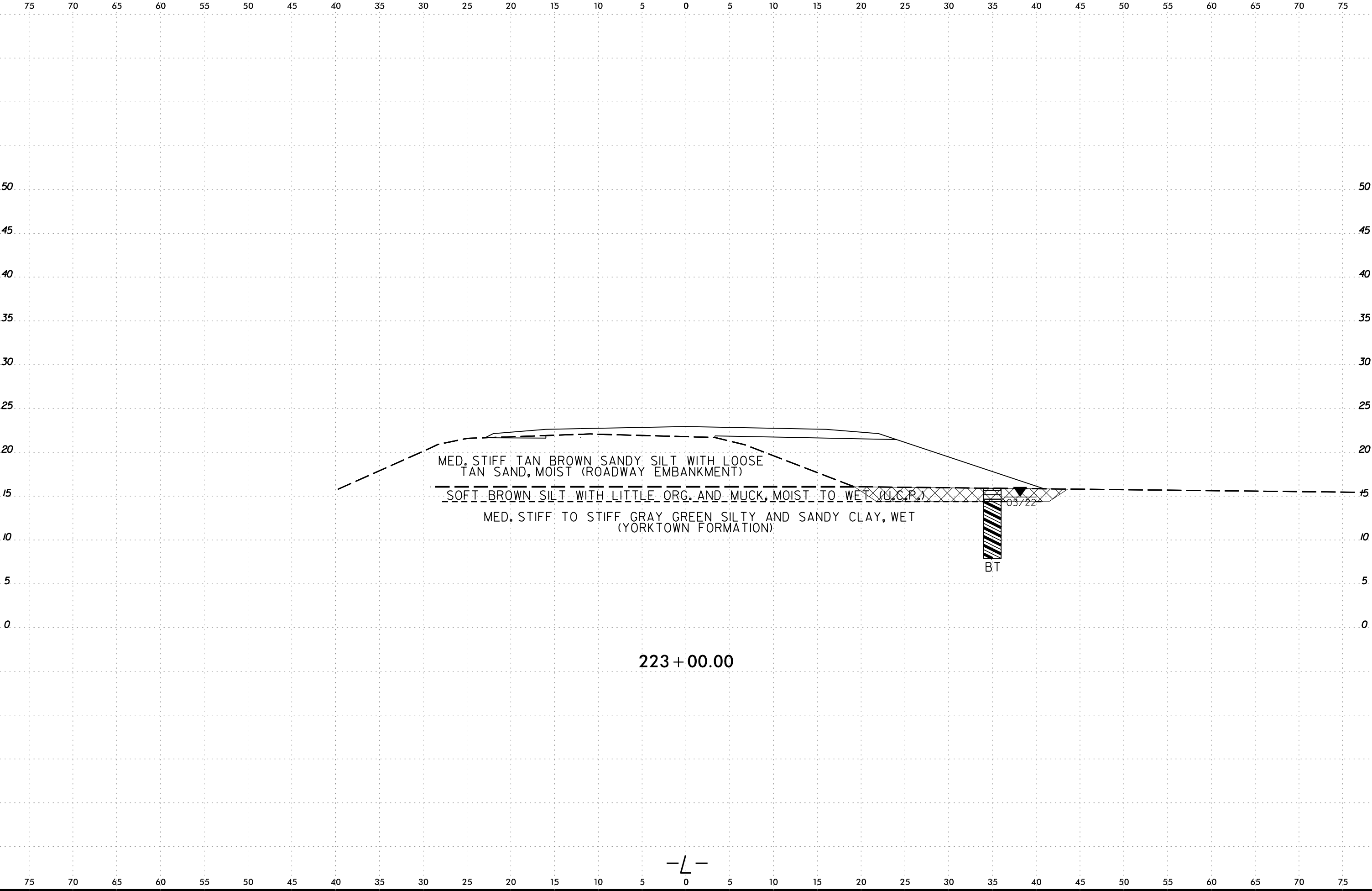




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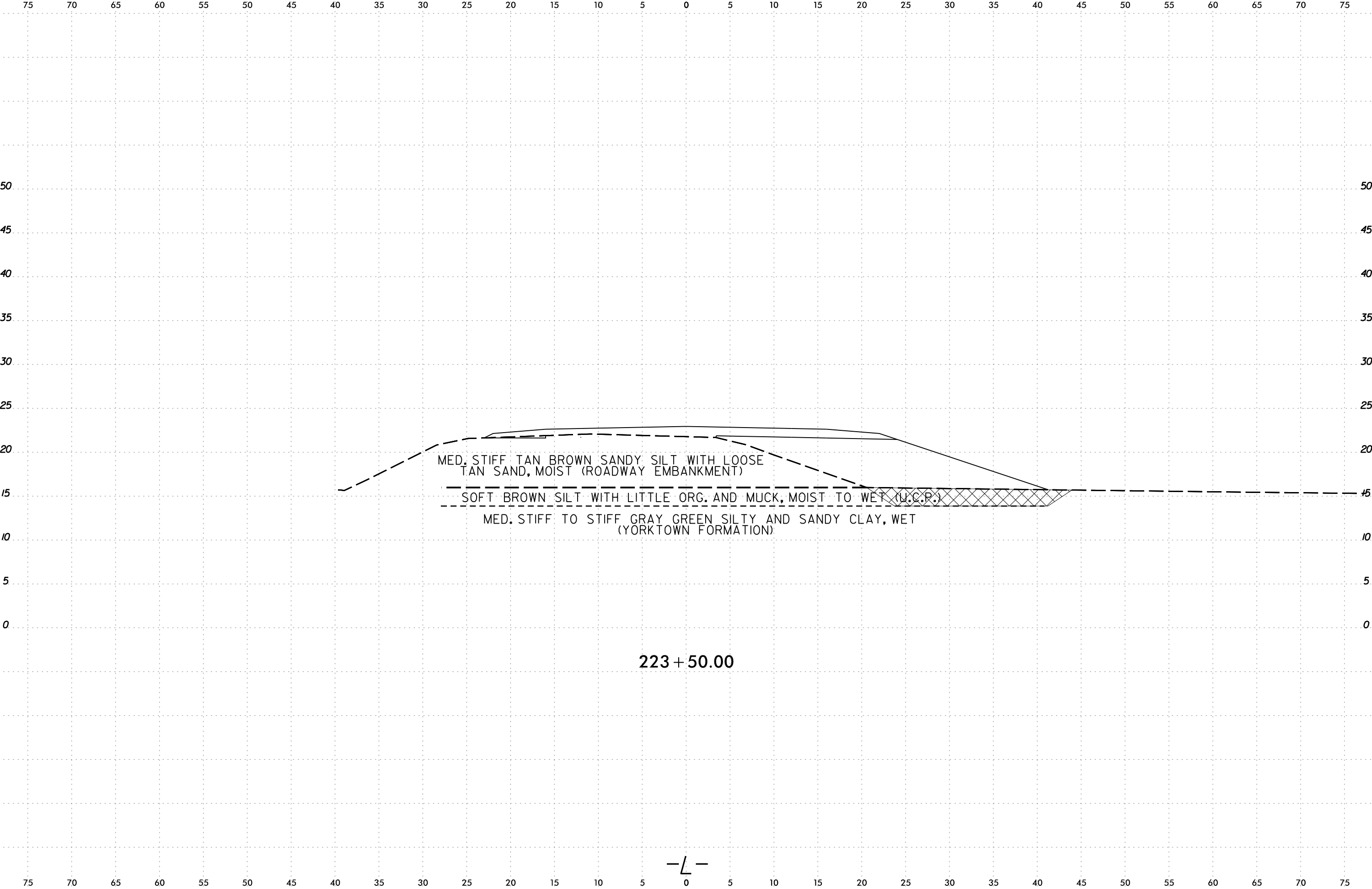


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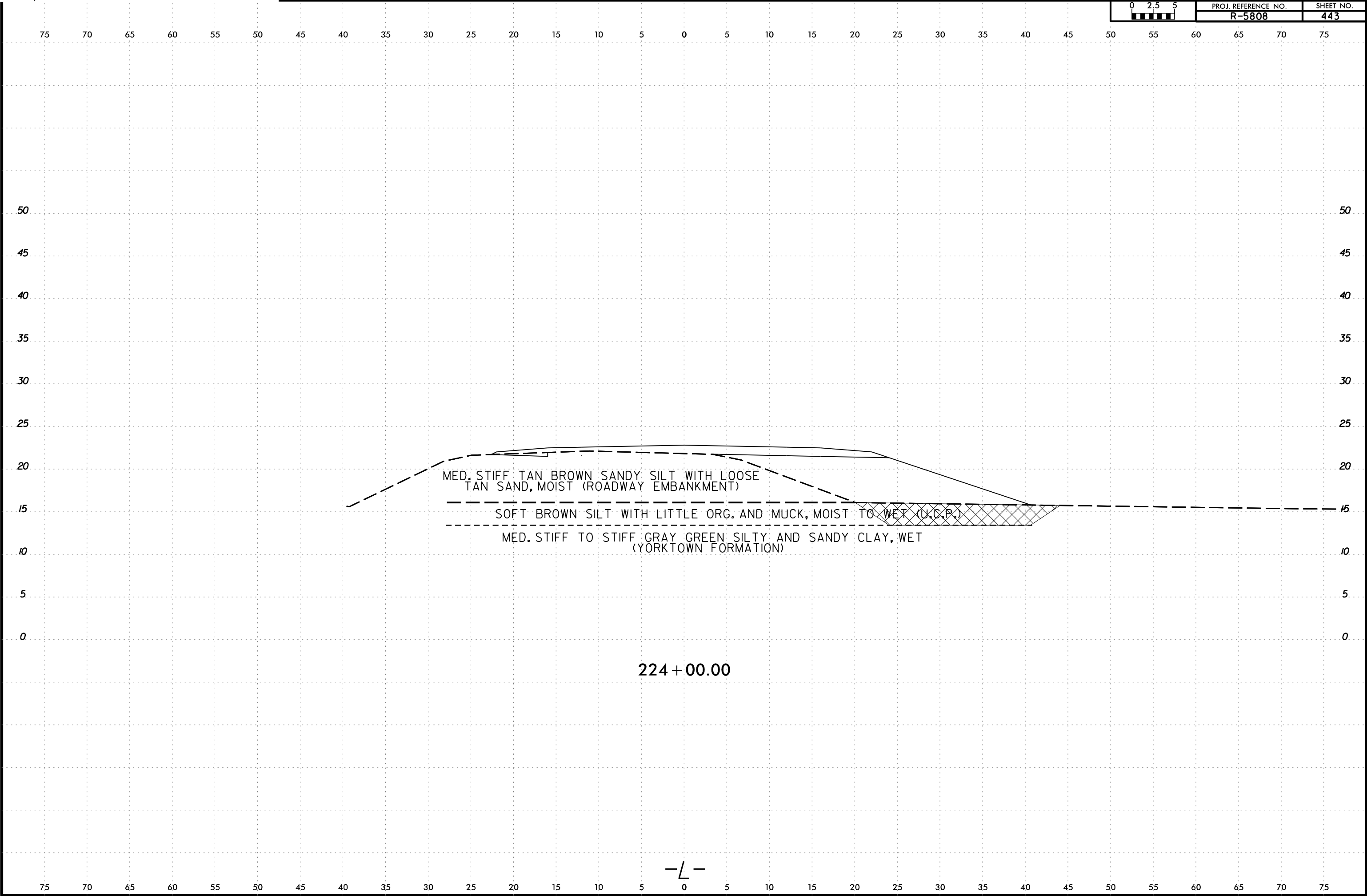
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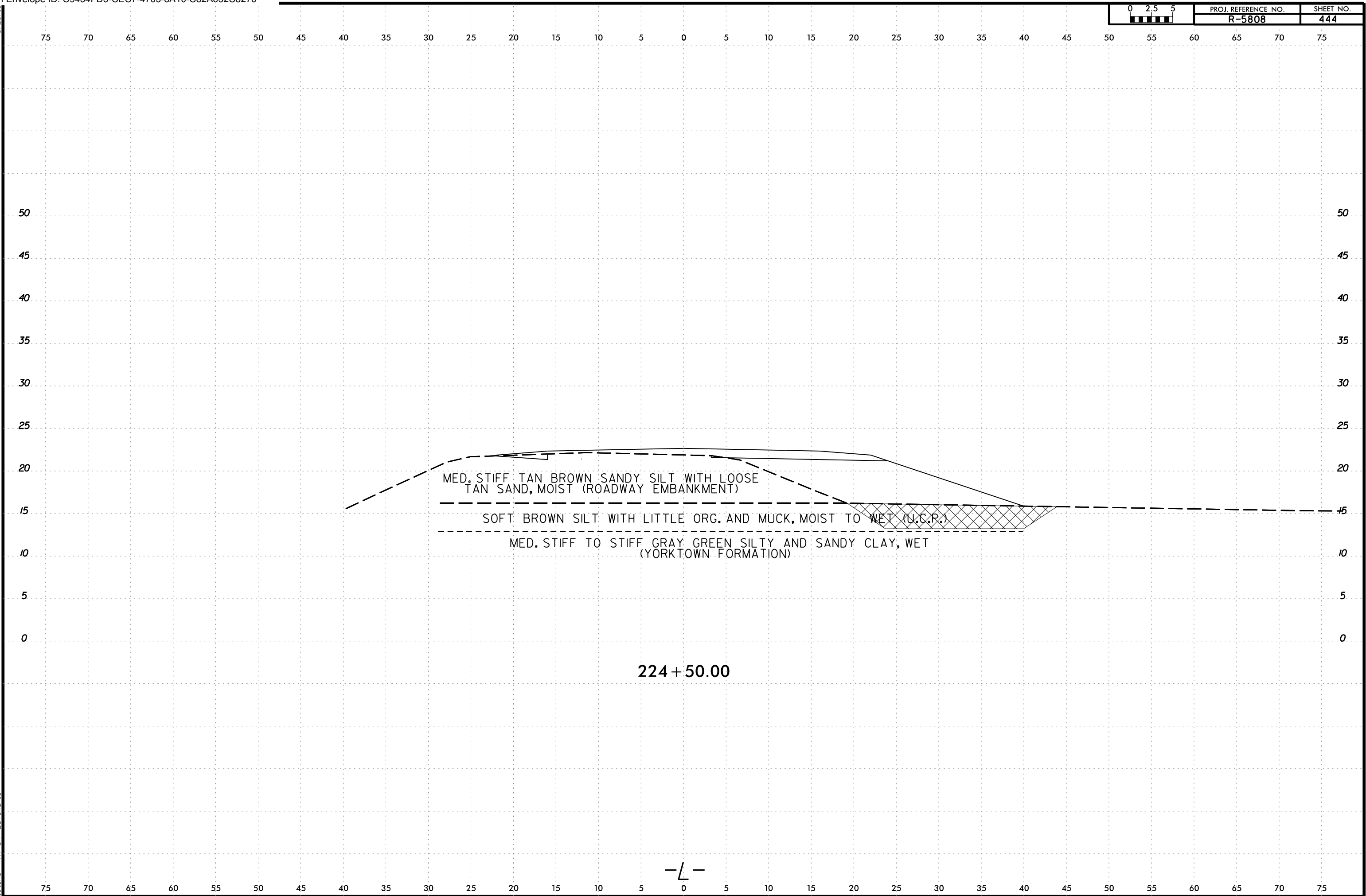


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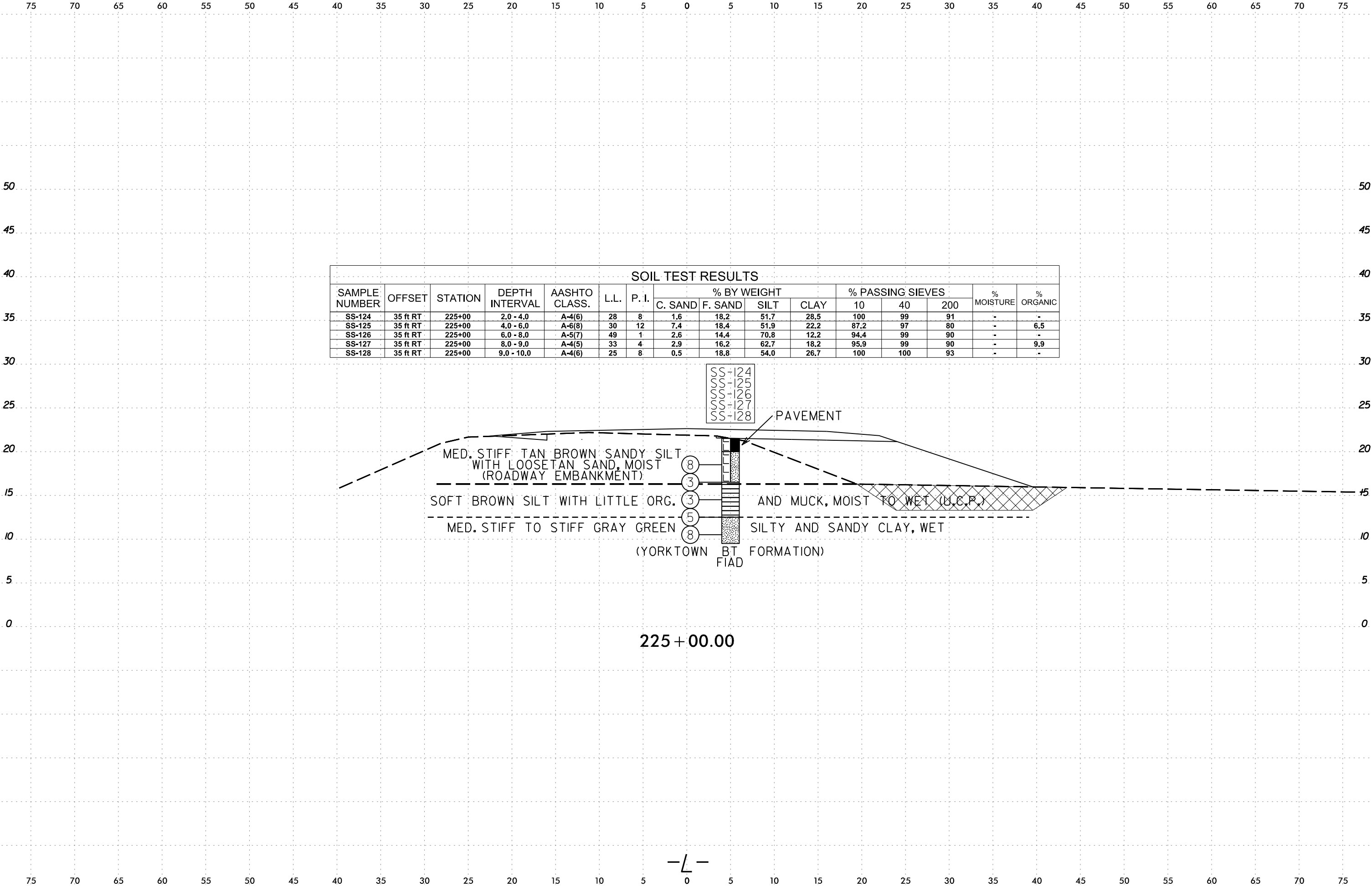
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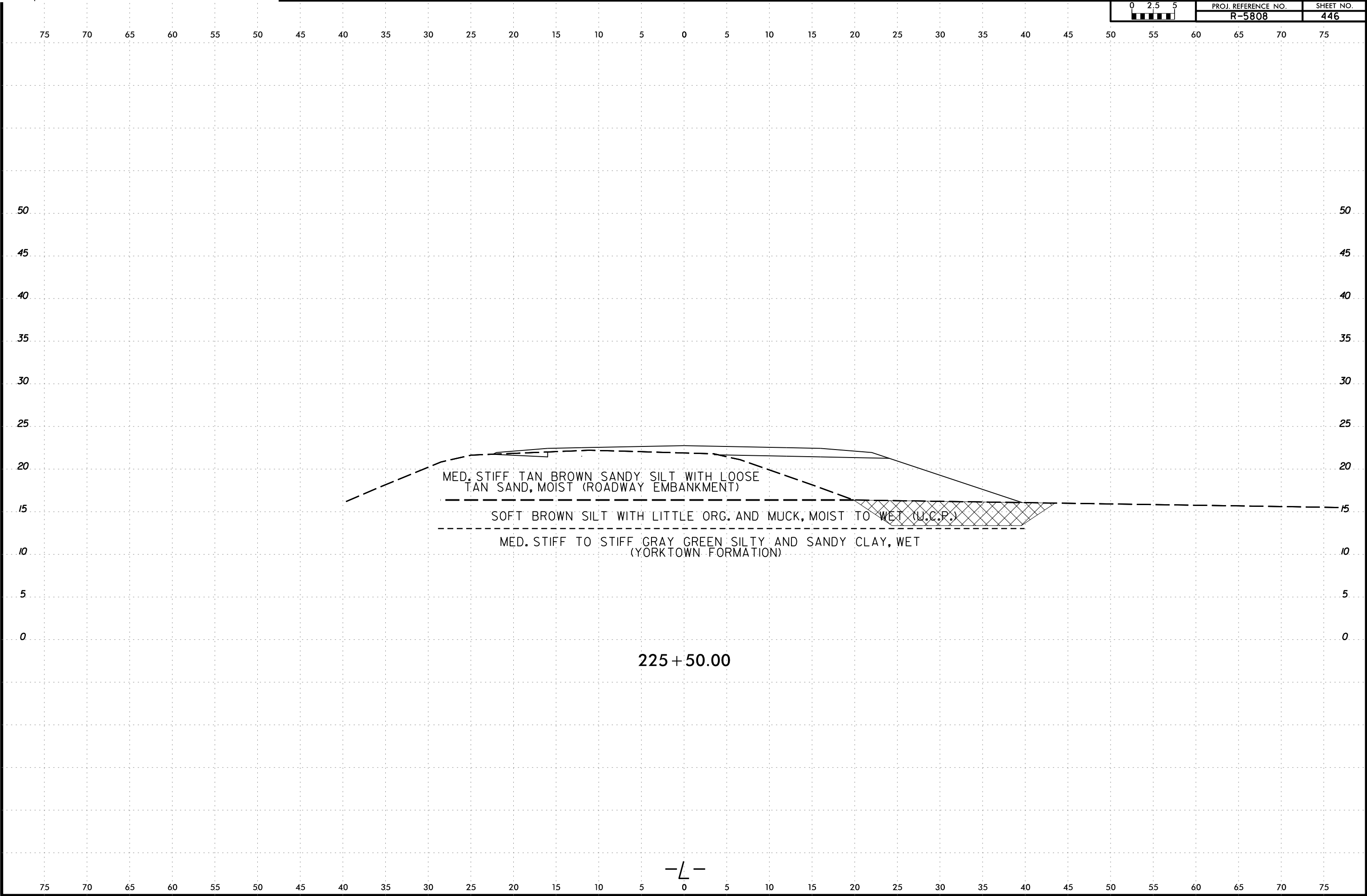
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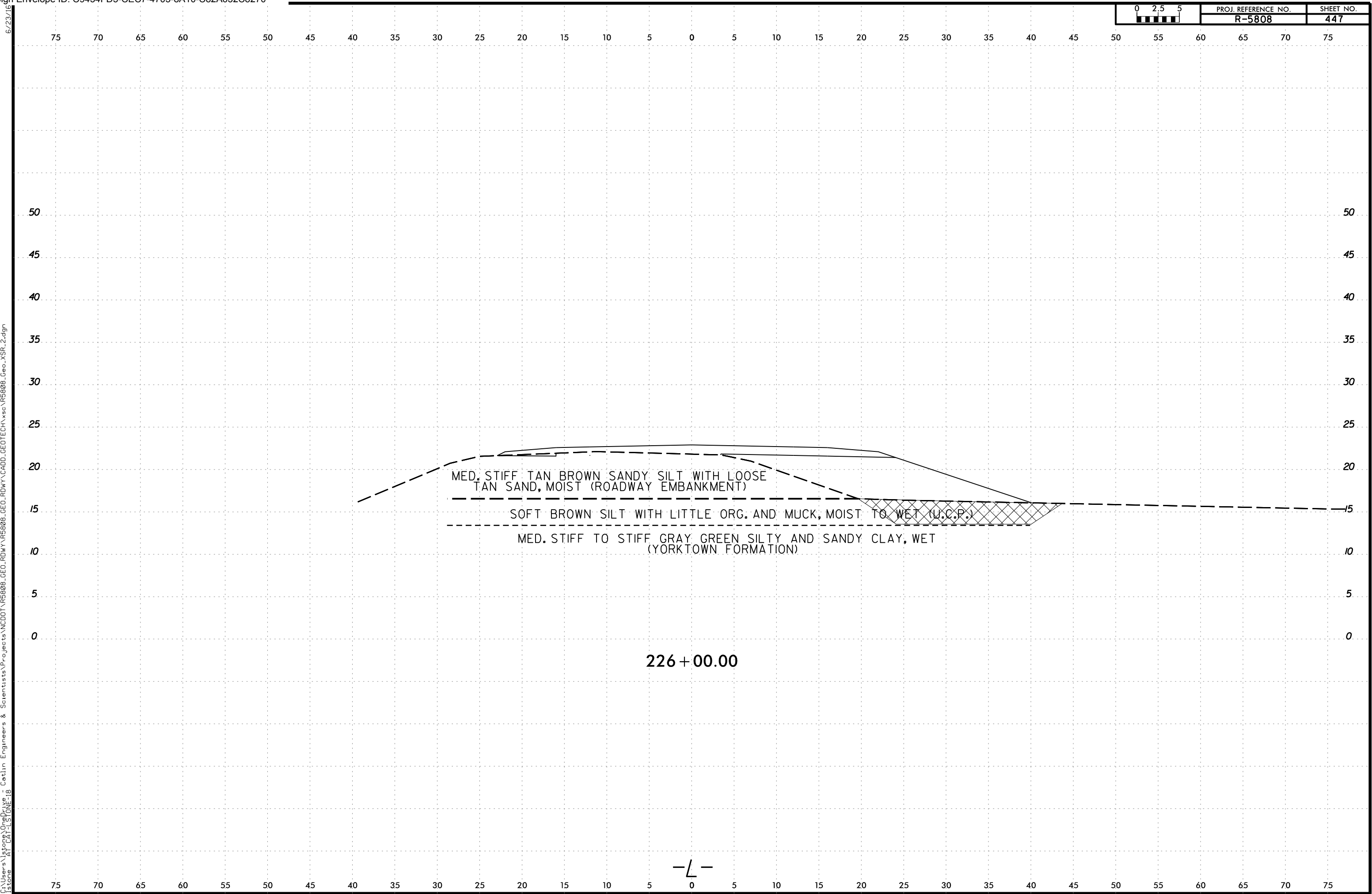


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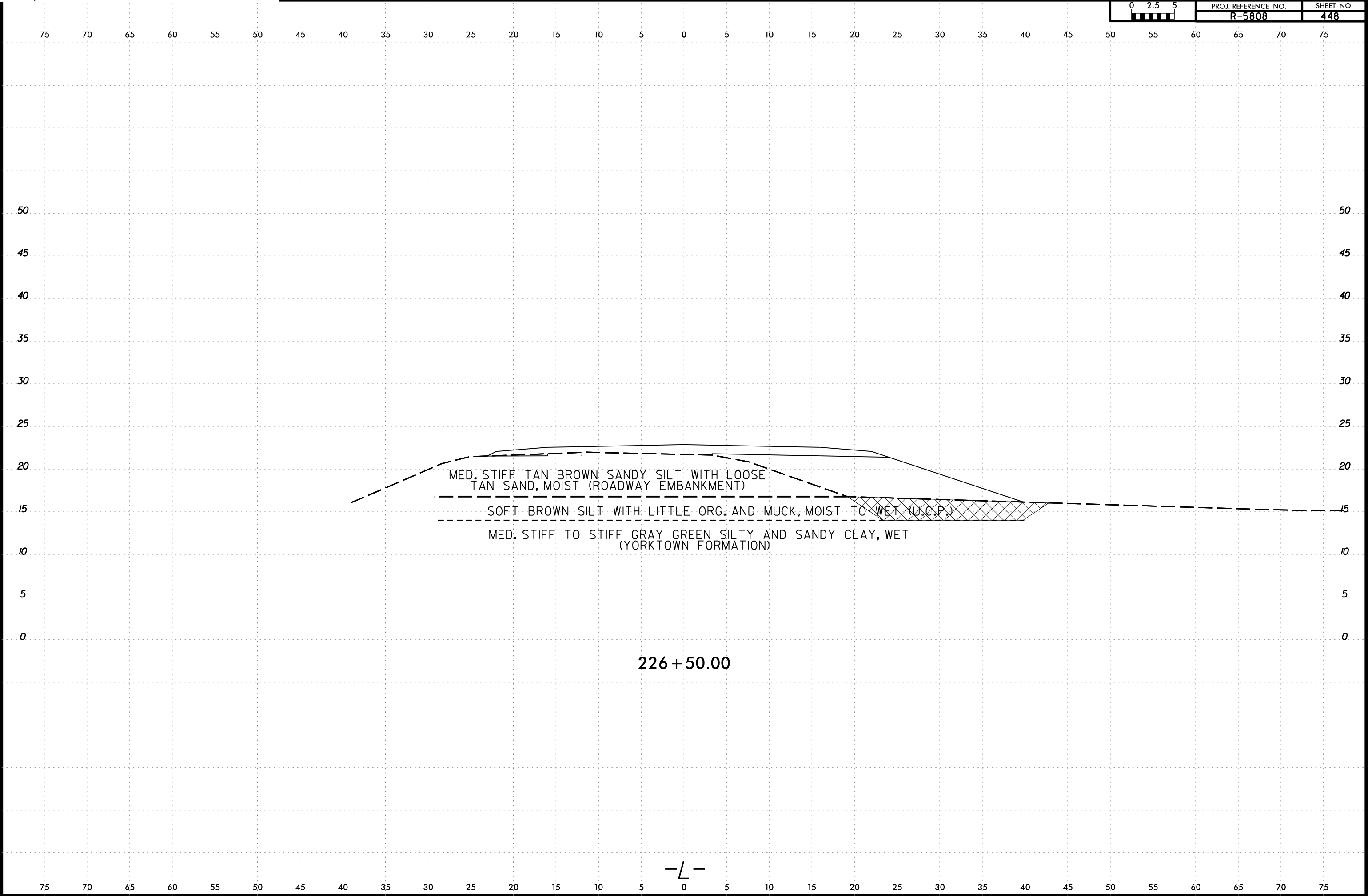




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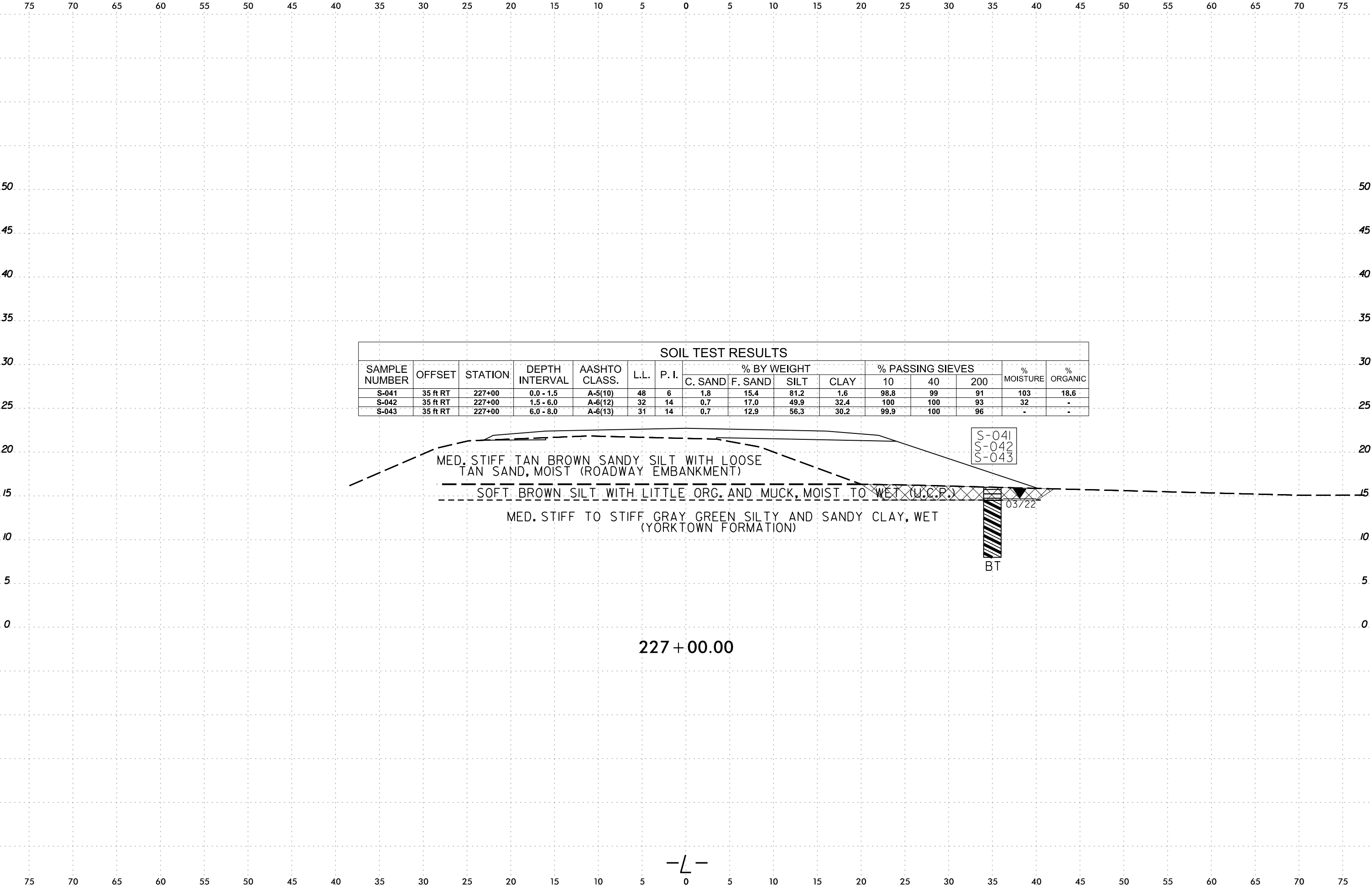
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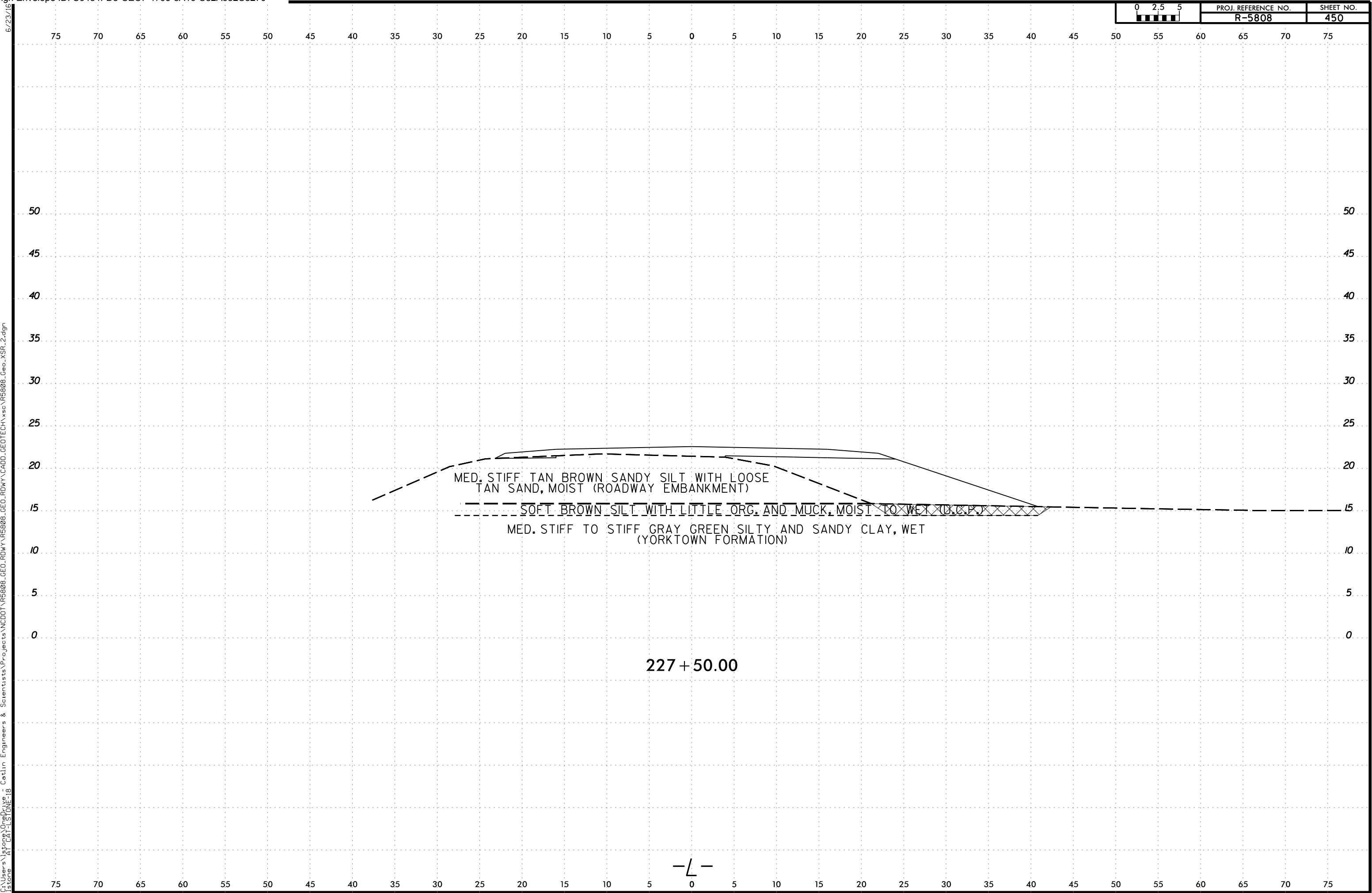
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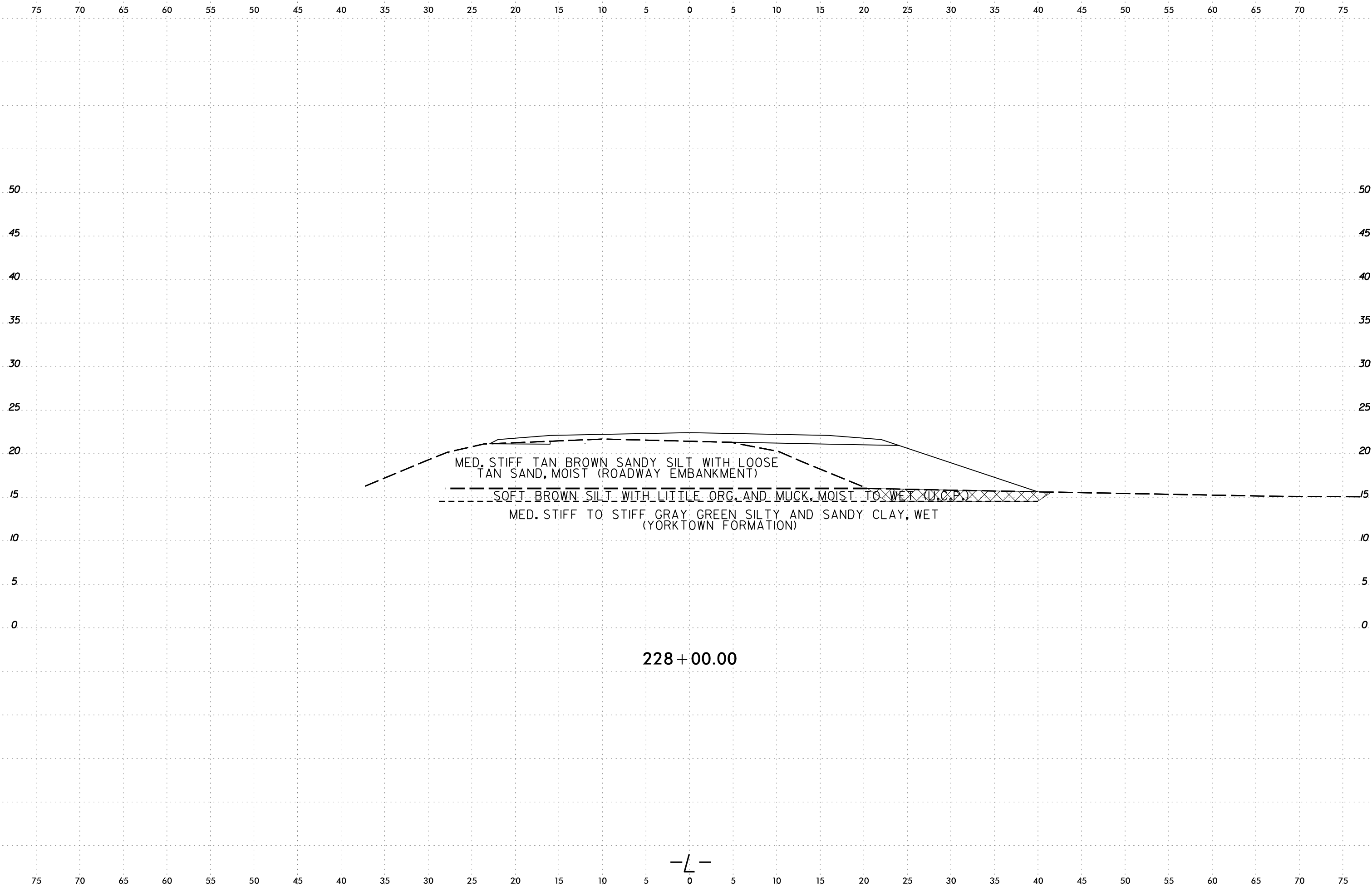


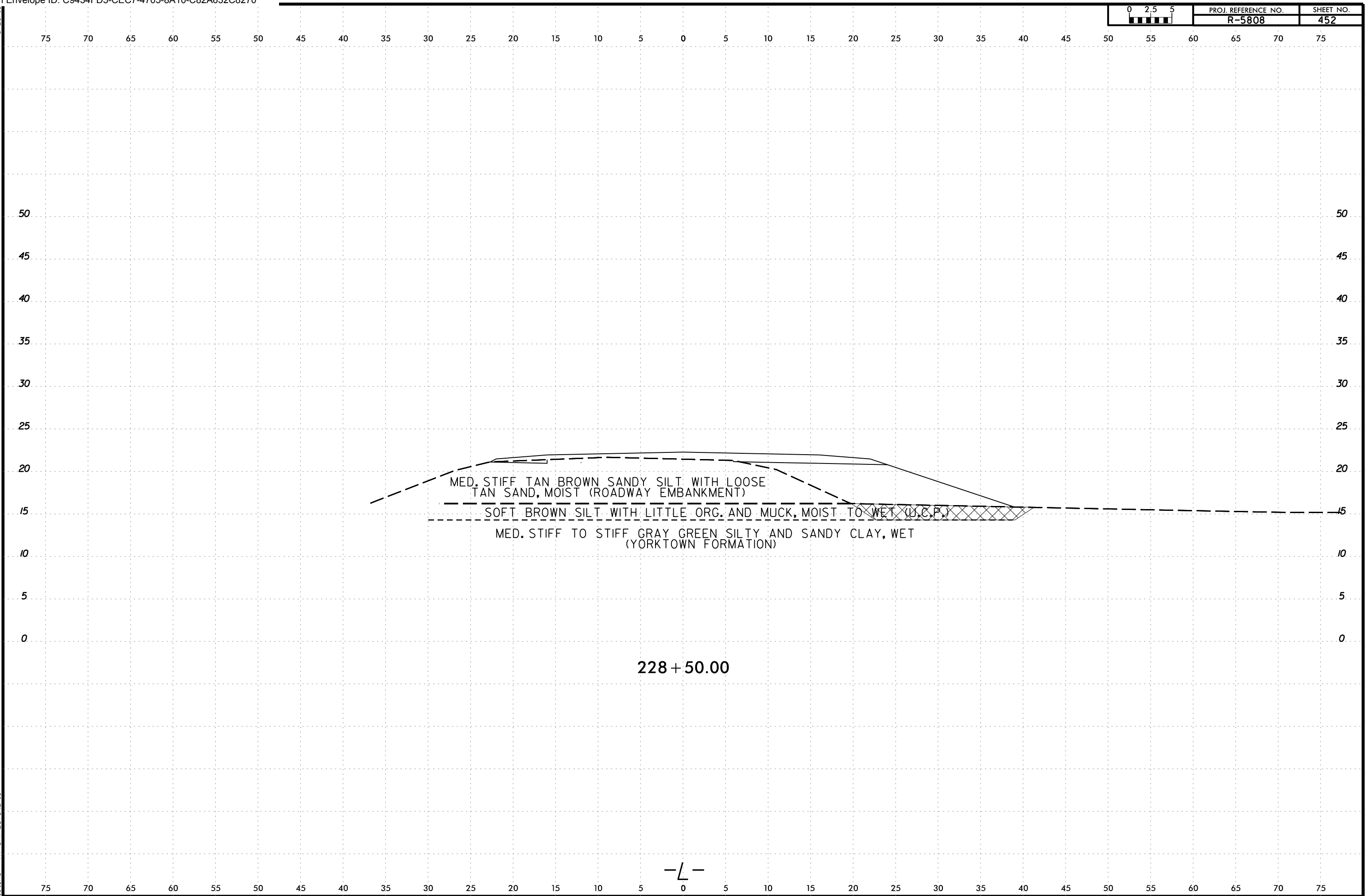
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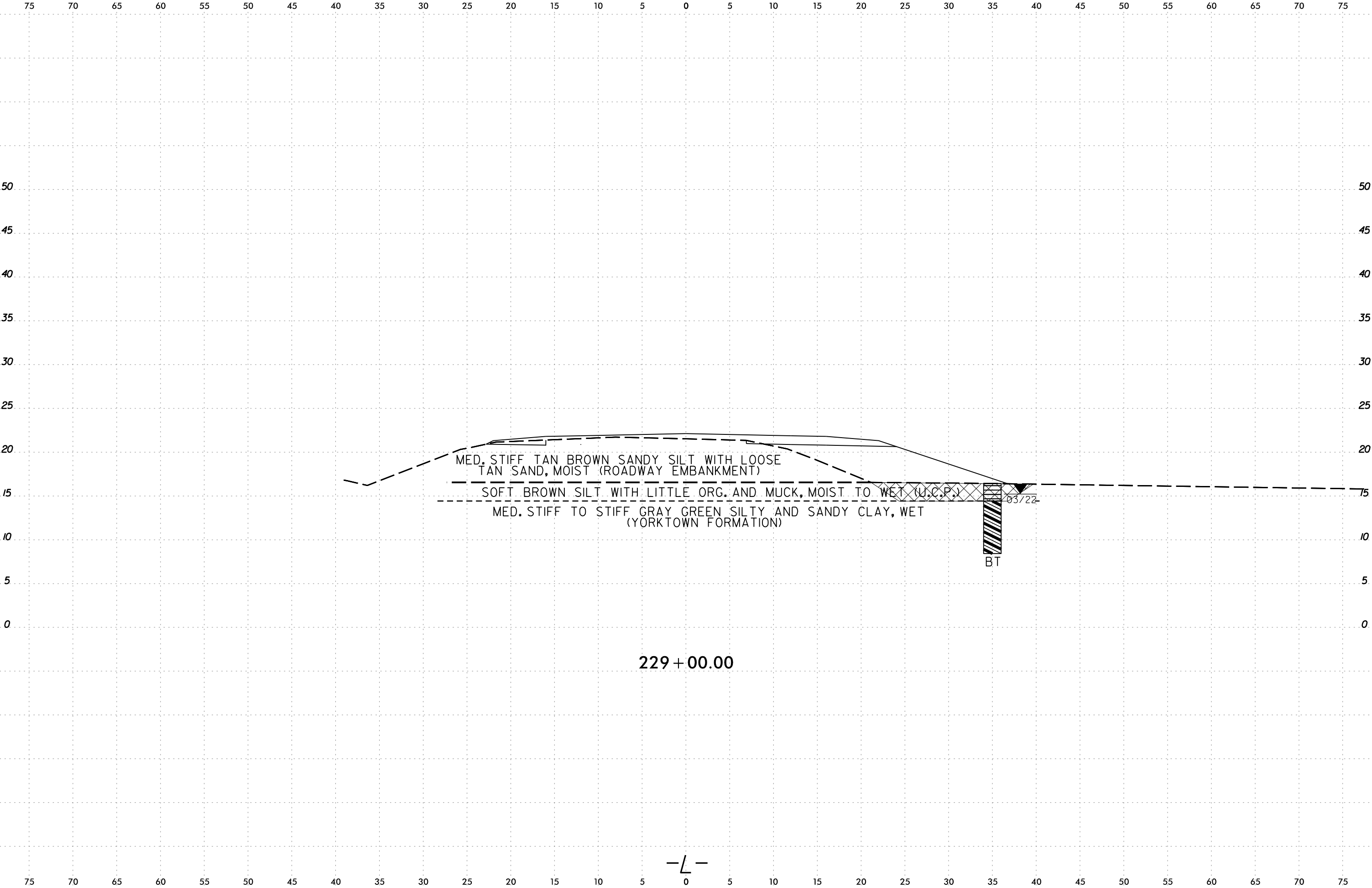




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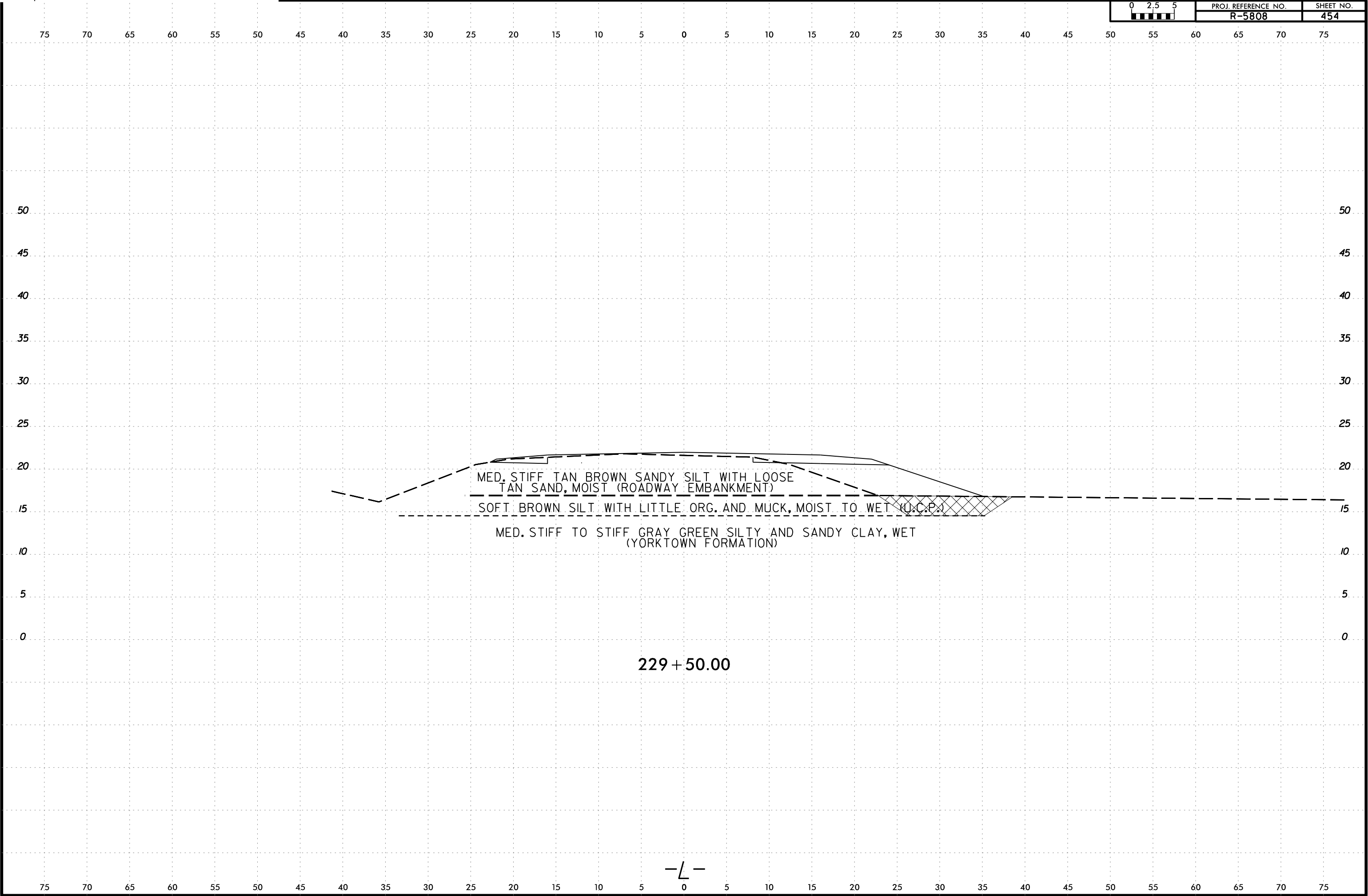
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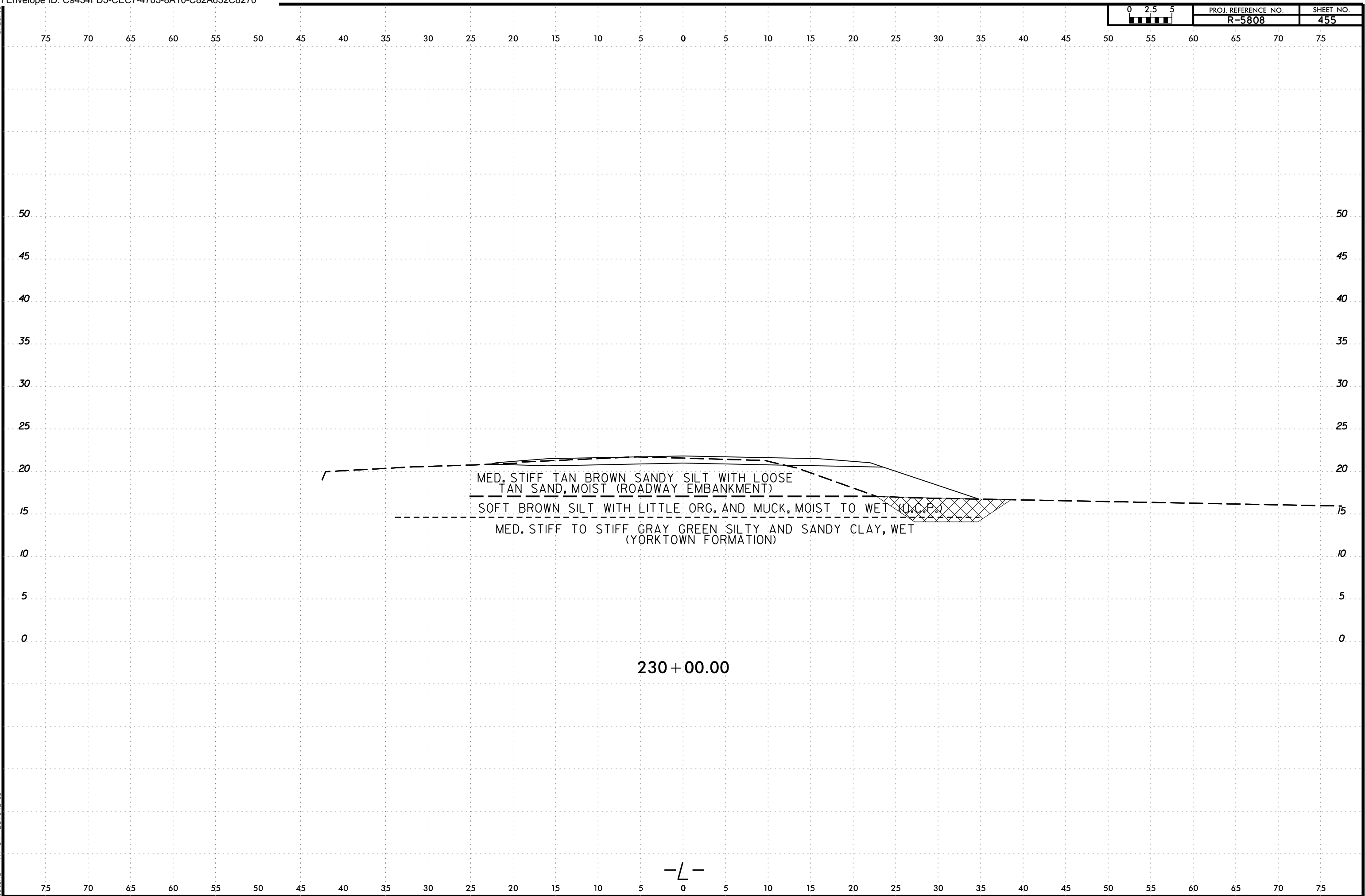


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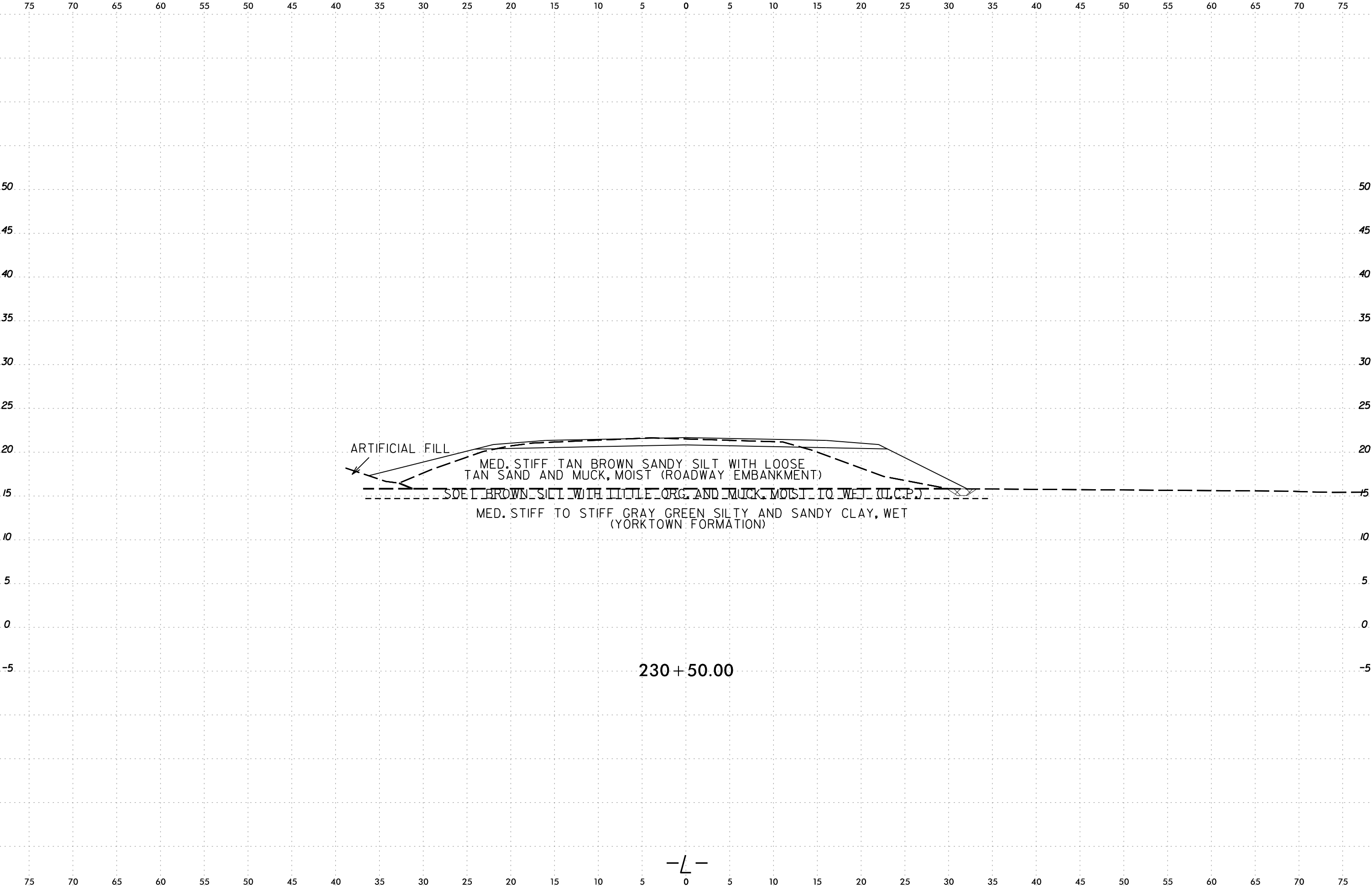


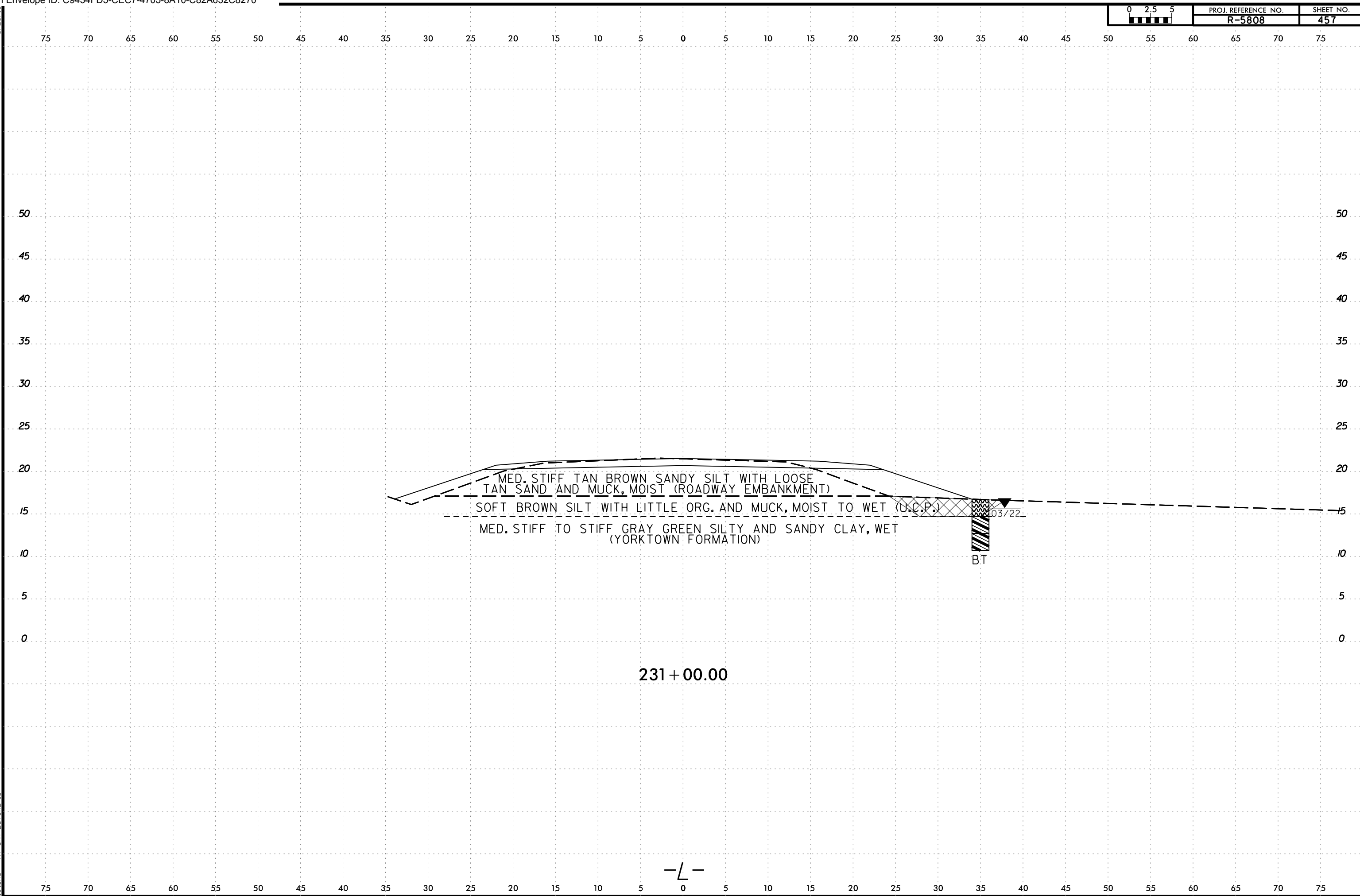


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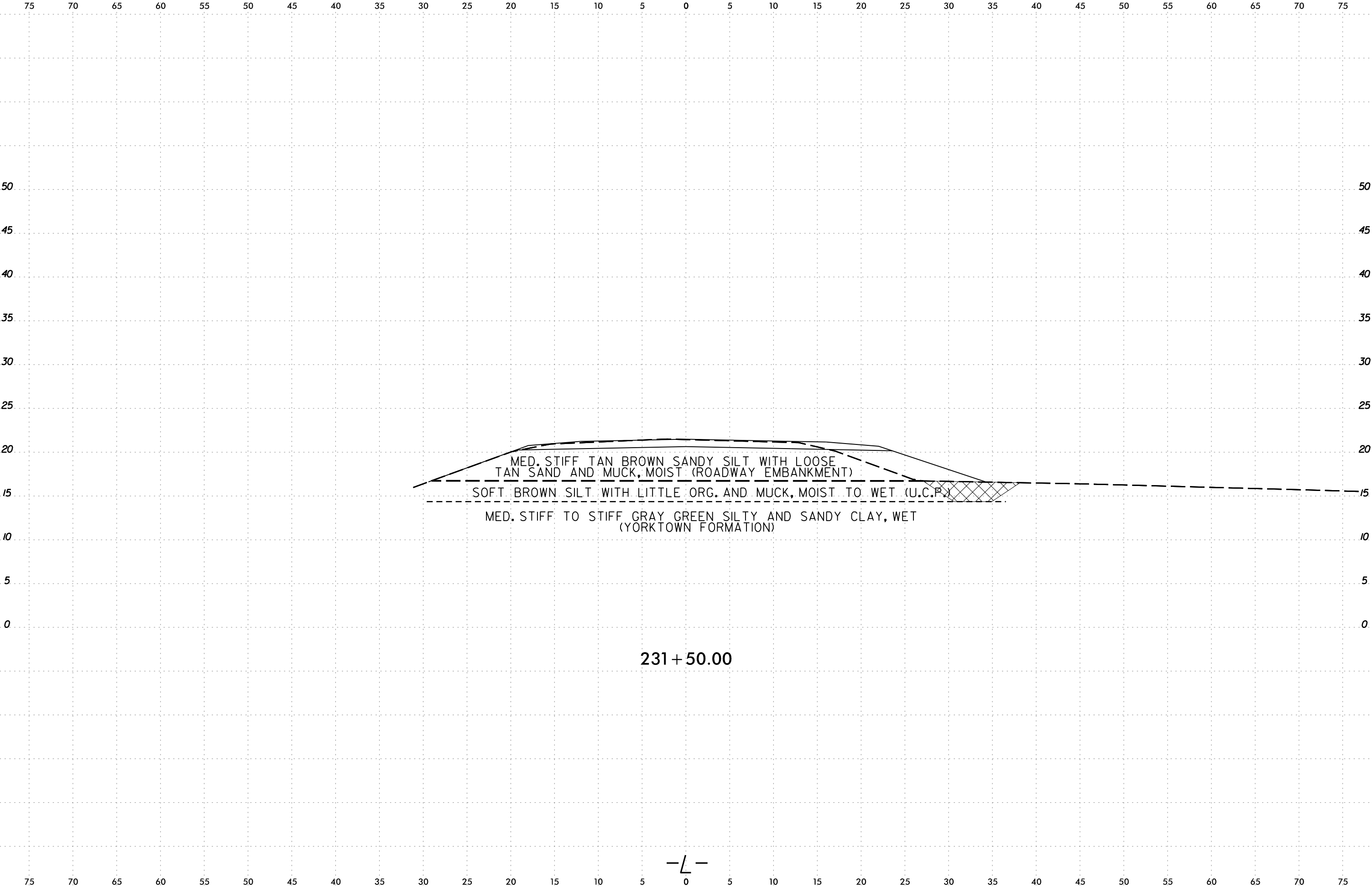


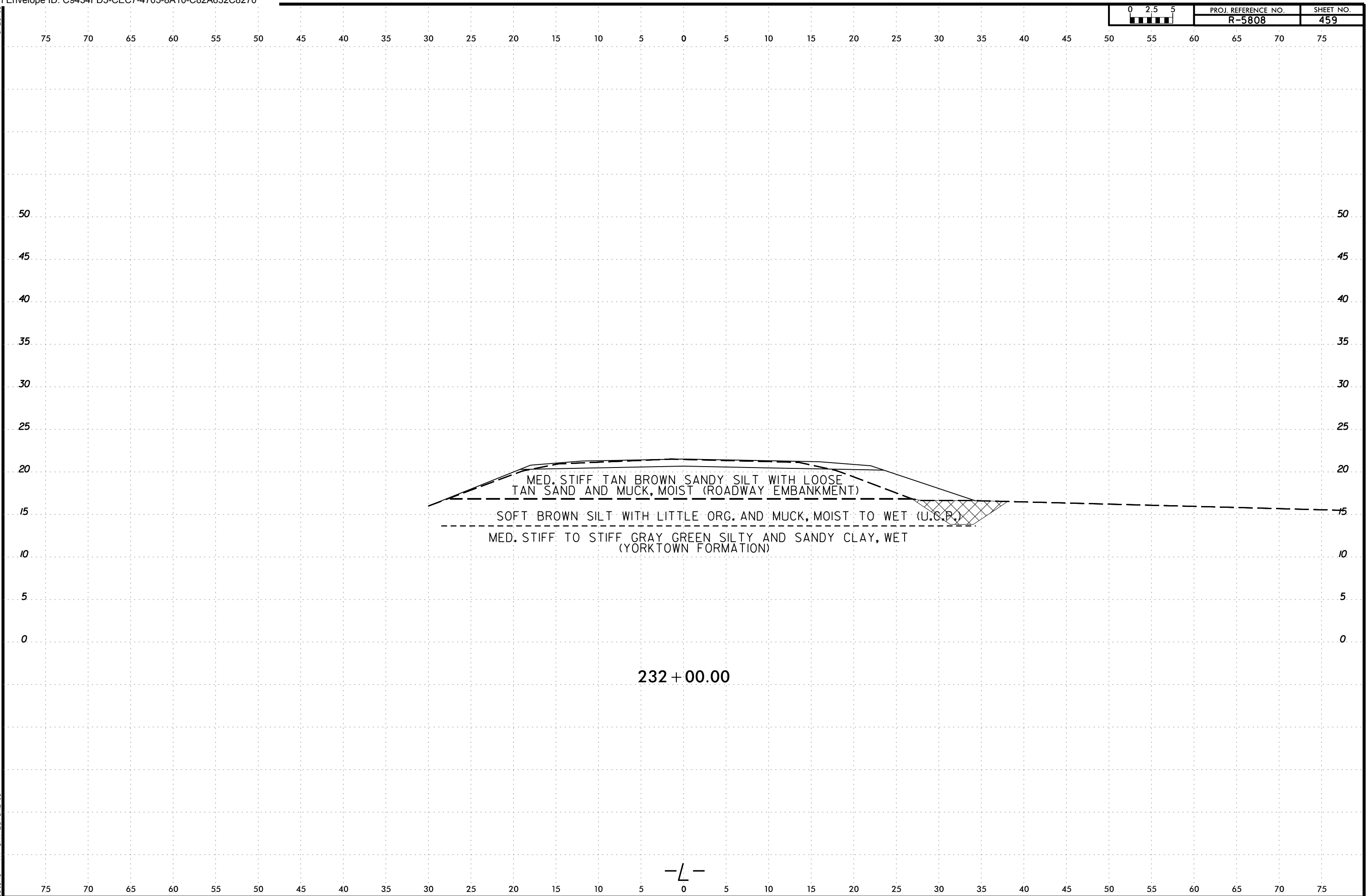


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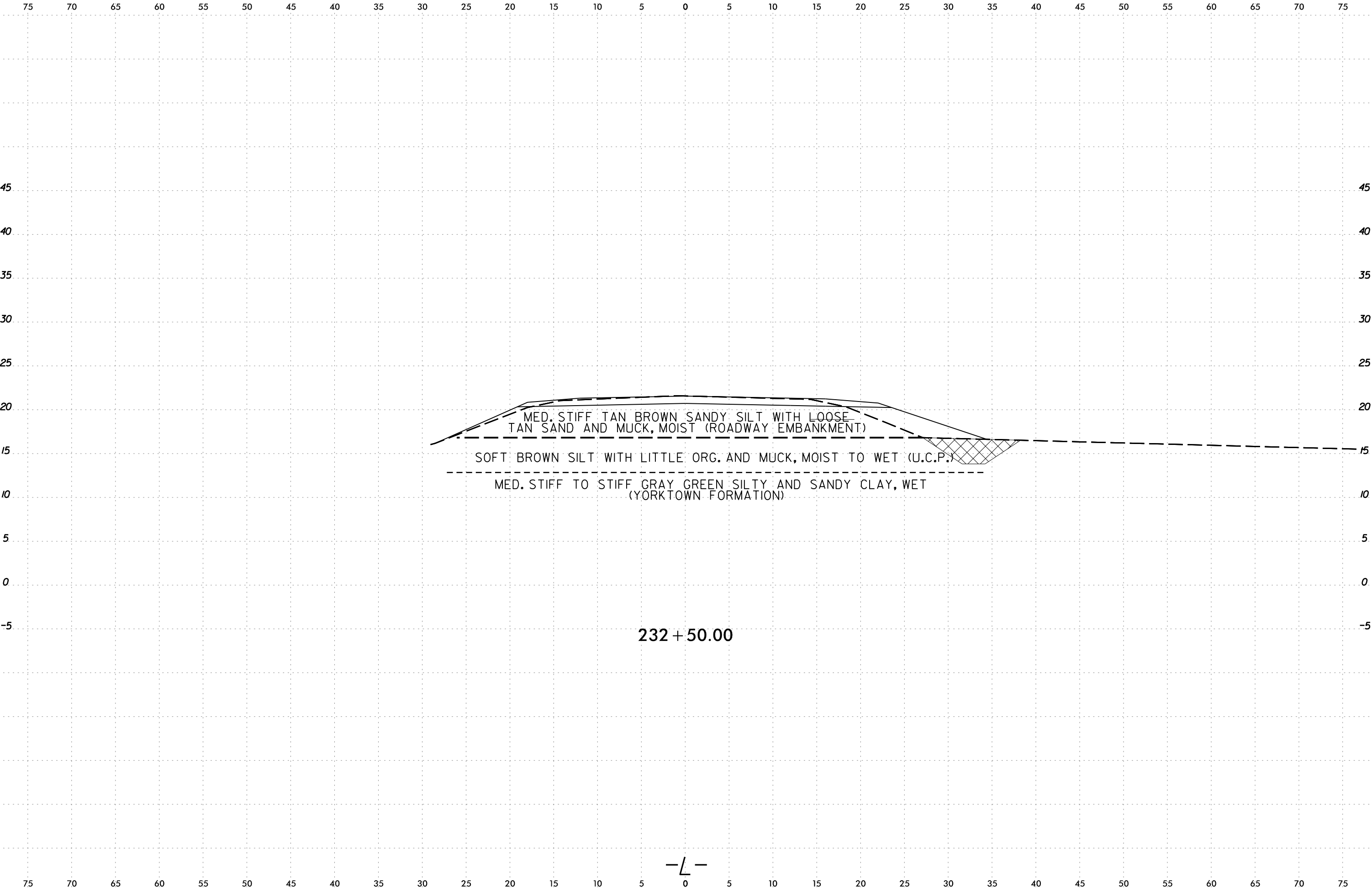


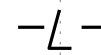


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