

SEE SHEET 3 FOR PLAN SHEET LAYOUT  
AT TIME OF INVESTIGATION

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

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 1919 TOTTENHAM. 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



CONTENTS

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

CROSS SECTIONS

LINE	STATION	SHEET
-L-	18+00 TO 234+00	31-463

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

REFERENCE: R-5808

PROJECT: 46972



DocuSigned by:  
Yinhui Liu 6/13/2024  
673A8A76BCF14BE...  
SIGNATURE DATE



DocuSigned by:  
Joseph L. Stone 6/13/2024  
10FDBDD34BEF4C4...  
SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

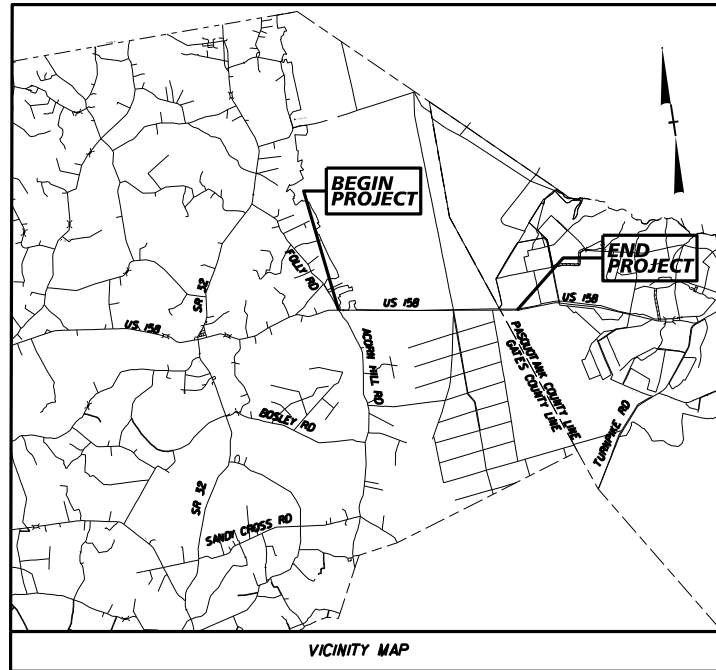


09/08/2022

**CONTRACT: TIP PROJECT: R-5808**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GATES COUNTY**



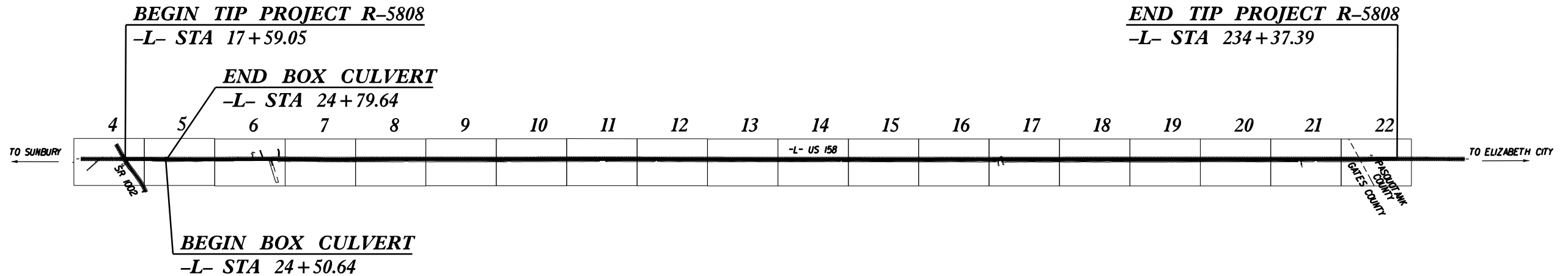
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5808	3	463
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
46972.1.1	NHP-0158(076)		

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

65% PLANS

**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**



**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

<p><b>GRAPHIC SCALES</b></p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p>	<p><b>DESIGN DATA</b></p> <p>ADT 2023 = 4,300 ADT 2043 = 6,200 K = 10% D = 55% T = 12% V = 60 MPH</p> <p>CLASSIFICATION: OTHER PRINCIPAL ARTERIAL</p> <p>* 7% TTST 5% DUAL STATEWIDE TIER</p>	<p><b>PROJECT LENGTH</b></p> <p>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</p>	<p>Prepared in the Office of:</p> <p><b>Kimley»Horn</b></p> <p><small>INCORPORATED 1982 REGISTERED PROFESSIONAL ENGINEERS REGISTERED PROFESSIONAL SURVEYORS REGISTERED PROFESSIONAL ARCHITECTS</small></p>	<p>HYDRAULICS ENGINEER</p> <p>SIGNATURE: _____ P.E.</p>	
			<p>2018 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: AUGUST 23, 2022</p> <p>LETTING DATE: JULY 18, 2023</p>	<p>VINCENT RICCIO, PE PROJECT ENGINEER</p> <p>BRANDON GREGG, PE PROJECT DESIGN ENGINEER</p> <p>RYAN SHOOK PROJECT MANAGER NCDOT HIGHWAY DIVISION</p>	

\$DATE\$

5/14/98

-L-

PI Sta 16+15.38  
 $\Delta = 0^{\circ} 04' 44.4" (LT)$   
 $D = 0^{\circ} 04' 45.0"$   
 $L = 99.80'$   
 $T = 49.90'$   
 $R = 72,370.32'$

**Kimley»Horn**

4525 MAIN STREET, SUITE 1000  
 VIRGINIA BEACH, VA 23462

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

PROJECT REFERENCE NO.

R-5808

SHEET NO.

4

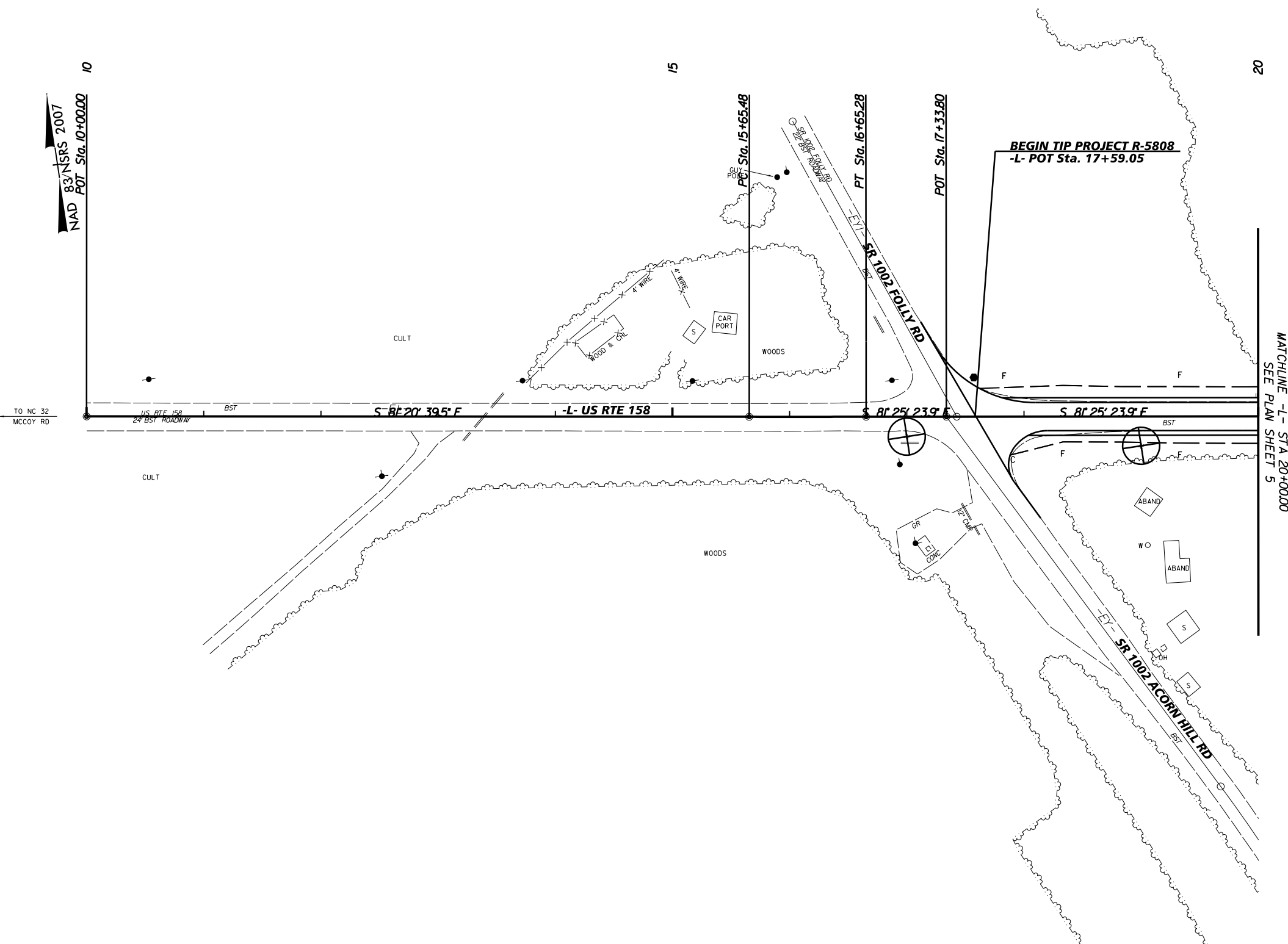
RW SHEET NO.

ROADWAY DESIGN  
 ENGINEER

HYDRAULICS  
 ENGINEER

**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

REVISIONS





\$DATE\$

**INCOMPLETE PLANS**  
 DO NOT USE FOR R/W ACQUISITION

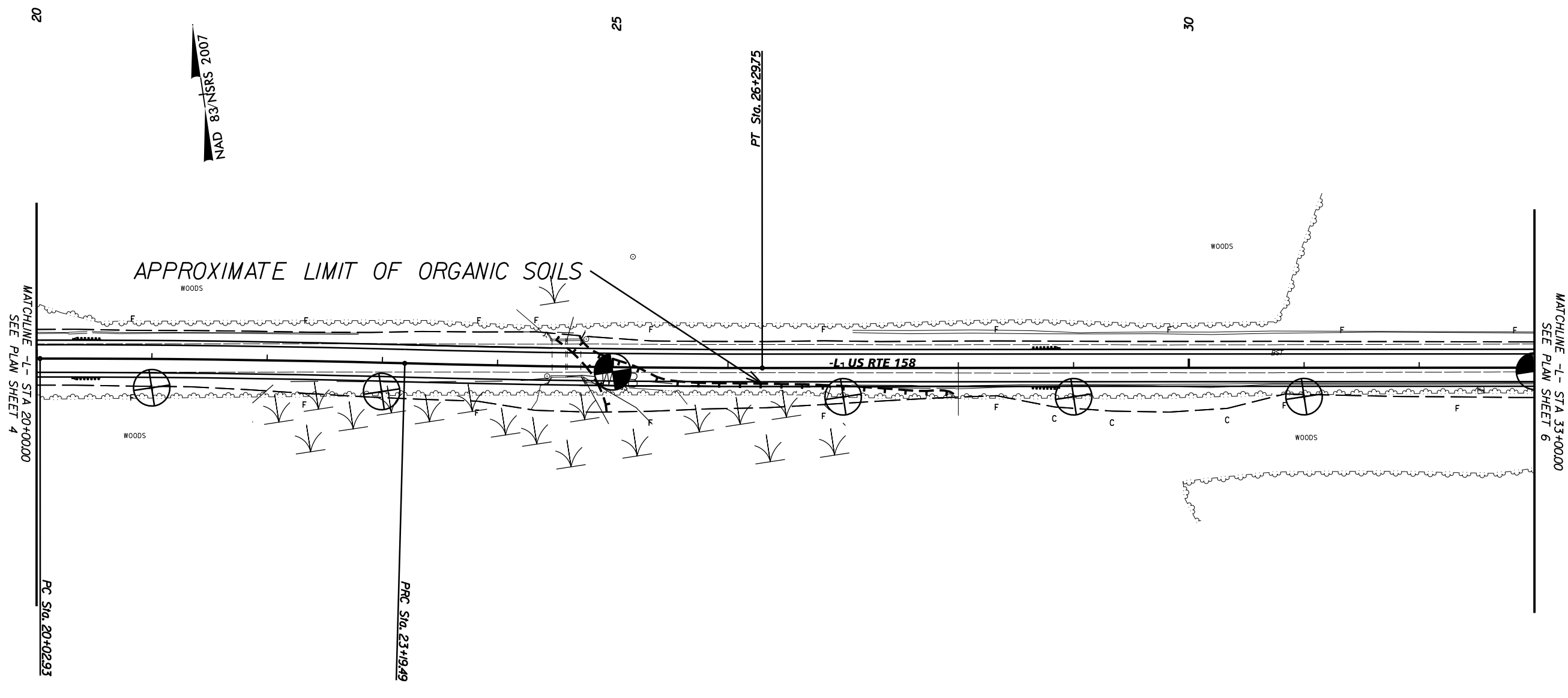
5/14/98

-L-

PI Sta 21+61.22	PI Sta 24+74.63
$\Delta = 1^{\circ} 34' 37.8"$ (RT)	$\Delta = 1^{\circ} 32' 44.9"$ (LT)
$D = 0^{\circ} 29' 53.6"$	$D = 0^{\circ} 29' 53.6"$
$L = 316.56'$	$L = 310.26'$
$T = 158.29'$	$T = 155.14'$
$R = 11,500.00'$	$R = 11,500.00'$

PROJECT REFERENCE NO. R-5808		SHEET NO. 5
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
 4525 MAIN STREET, SUITE 1000 VIRGINIA BEACH, VA 23462  Engineers and Scientists Washington, North Carolina		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

REVISIONS



\$DATE\$

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

5/14/98

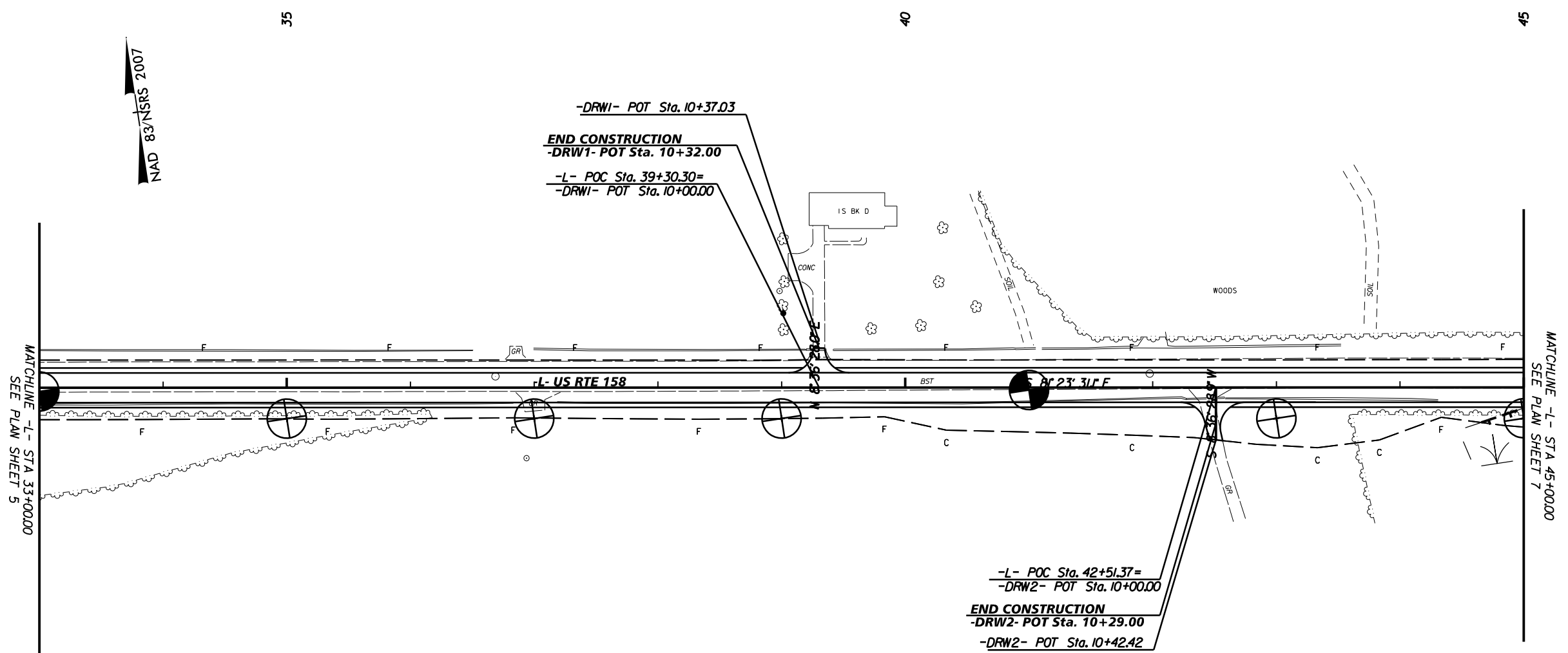
**Kimley»Horn**  
 4525 MAIN STREET, SUITE 1000  
 VIRGINIA BEACH, VA 23462

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

PROJECT REFERENCE NO. R-5808	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS

\$DATE\$



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  
 $\Delta = 0^\circ 25' 44.9" (LT)$   
 $D = 0^\circ 25' 27.9"$   
 $L = 1011'$   
 $T = 50.56'$   
 $R = 13,500.00'$

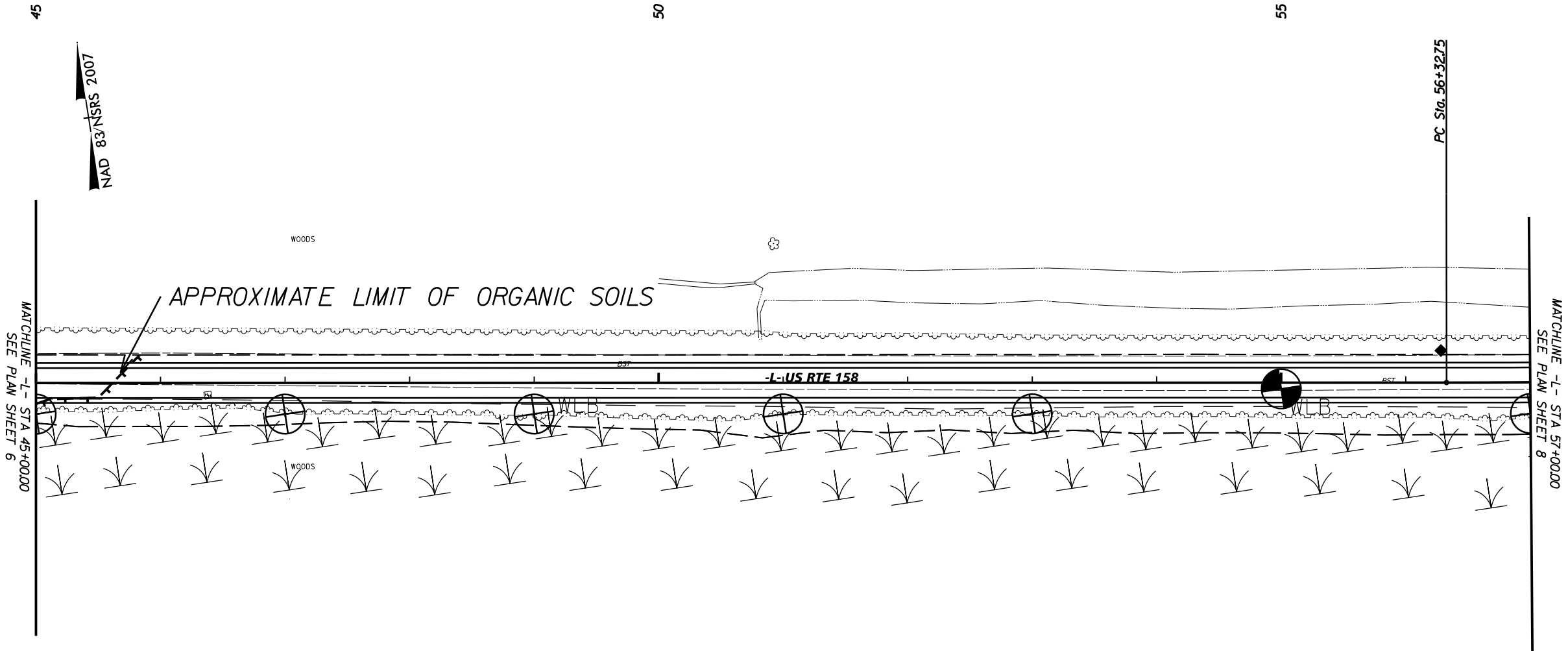
**Kimley»Horn**  
 4525 MAIN STREET, SUITE 1000  
 VIRGINIA BEACH, VA 23462

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

PROJECT REFERENCE NO. R-5808	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

REVISIONS



\$DATE\$

**INCOMPLETE PLANS**  
 DO NOT USE FOR R/W ACQUISITION

5/14/98

-L-



PI Sta 56+83.31  
 $\Delta = 0^\circ 25' 44.9''$  (LT)  
 $D = 0' 25' 27.9''$   
 $L = 101.1'$   
 $T = 50.56'$   
 $R = 13,500.00'$

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

PT Sta. 57+33.86  
 NAD 83 NSRS 2007

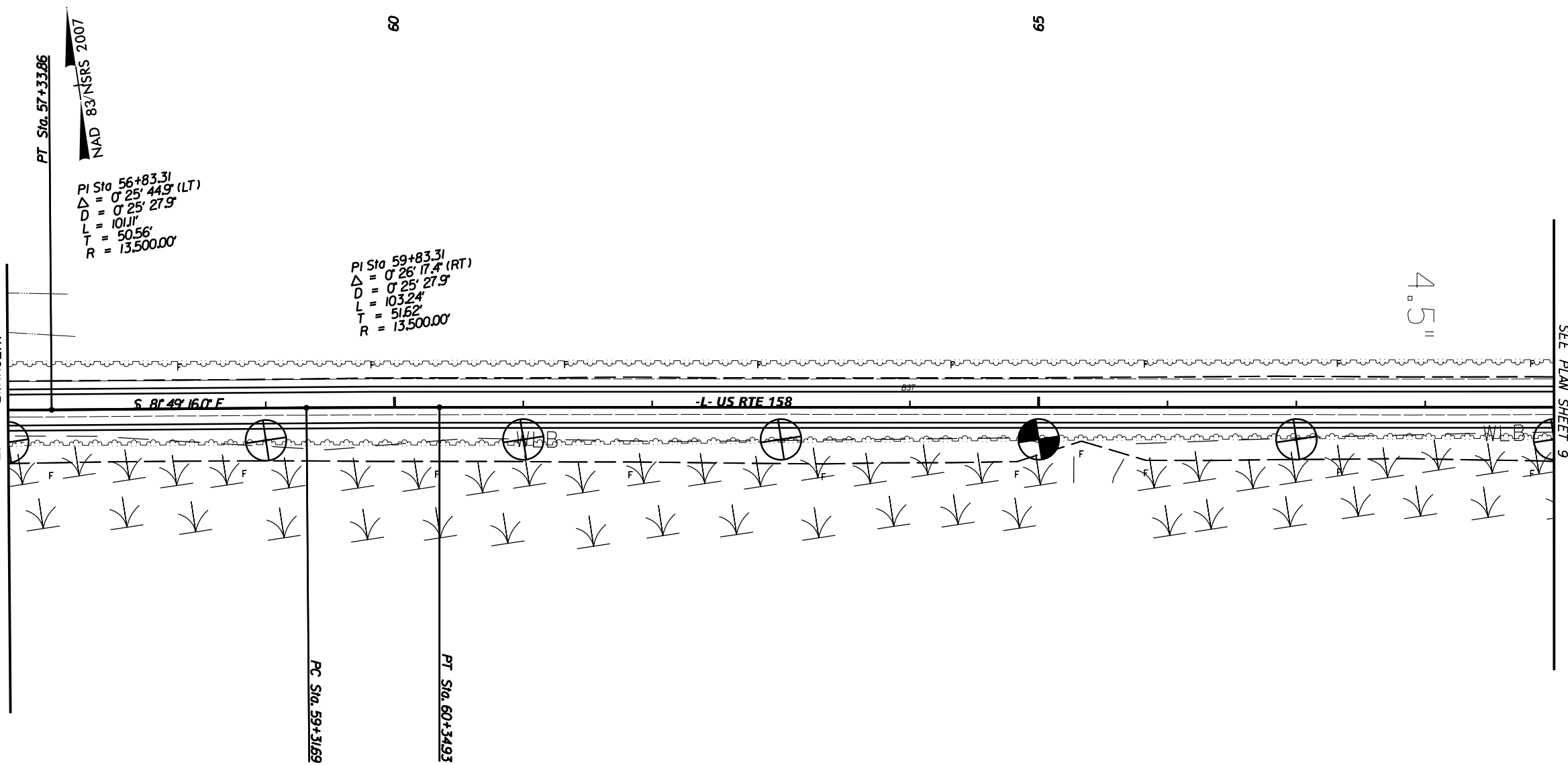
PI Sta 56+83.31  
 $\Delta = 0^\circ 25' 44.9''$  (LT)  
 $D = 0' 25' 27.9''$   
 $L = 101.1'$   
 $T = 50.56'$   
 $R = 13,500.00'$

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

PROJECT REFERENCE NO. R-5808		SHEET NO. 8
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
 4525 MAIN STREET, SUITE 1000 VIRGINIA BEACH, VA 23462  Engineers and Scientists Washington, North Carolina		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

REVISIONS

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



\$DATE\$

SEE SHEET NO. 24 FOR -L- PROFILE

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION



5/14/98

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

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

PROJECT REFERENCE NO. <i>R-5808</i>	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS

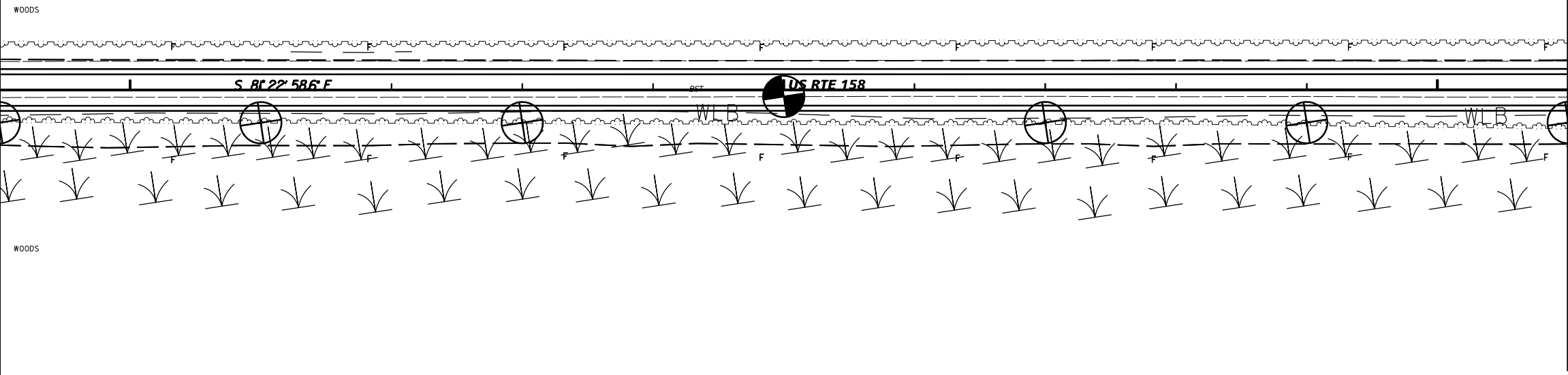
NAD 83/NRS 2007

70

75

80

MATCHLINE -L- STA 69+00.00  
SEE PLAN SHEET 8



\$DATE\$

SEE SHEET NO. 24 AND 25 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

5/14/99

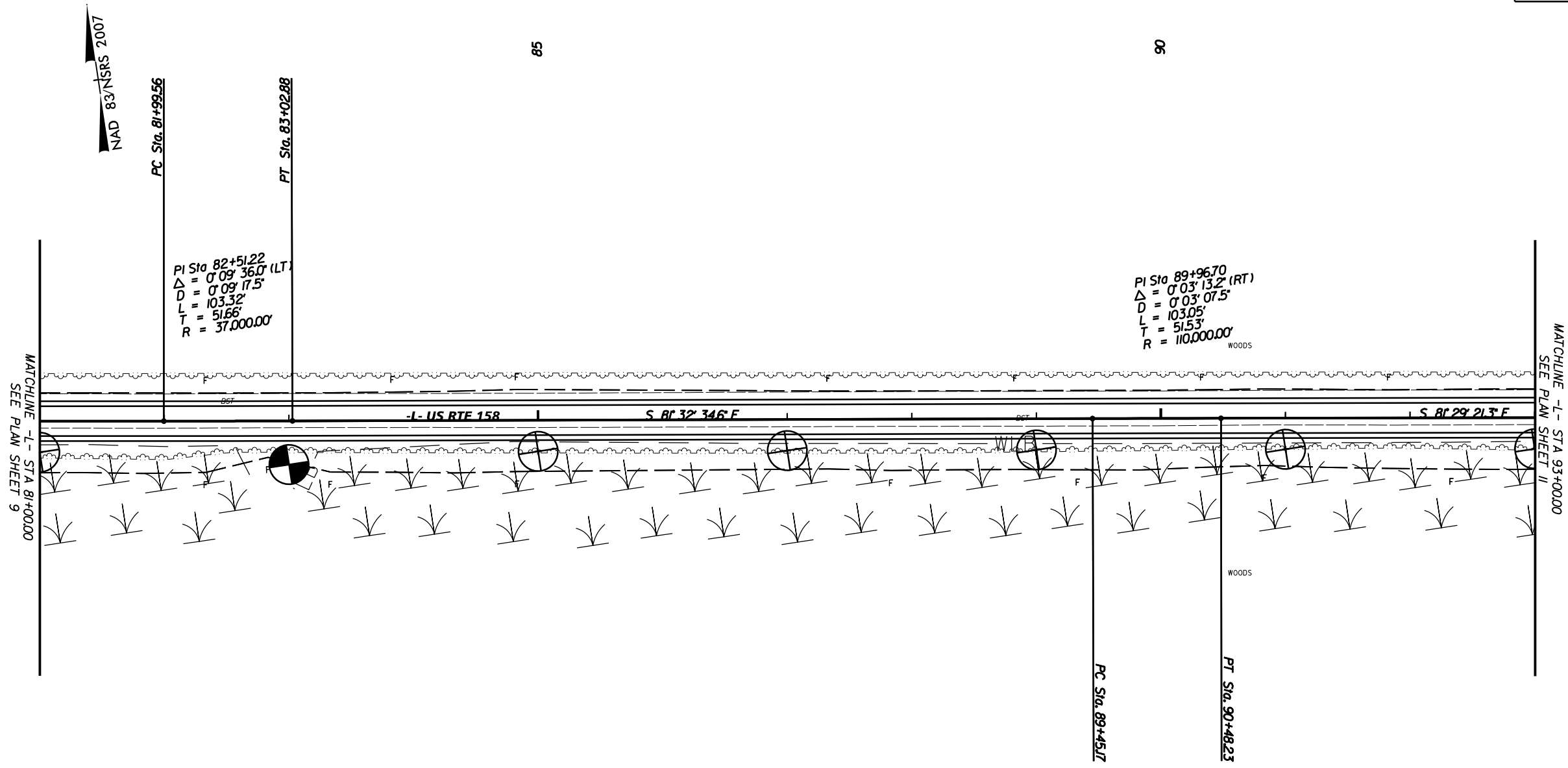
-L-  
 PI Sta 82+51.22      PI Sta 89+96.70  
 $\Delta = 0^{\circ}09'36.0''$  (LT)       $\Delta = 0^{\circ}03'13.2''$  (RT)  
 $D = 0^{\circ}09'17.5''$        $D = 0^{\circ}03'07.5''$   
 $L = 103.32'$        $L = 103.05'$   
 $T = 51.66'$        $T = 51.53'$   
 $R = 37,000.00'$        $R = 110,000.00'$

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



REVISIONS



\$DATE\$

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

5/14/98

PROJECT REFERENCE NO. <i>R-5808</i>		SHEET NO. <i>11</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
  Engineers and Scientists Washington, North Carolina			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

-L-

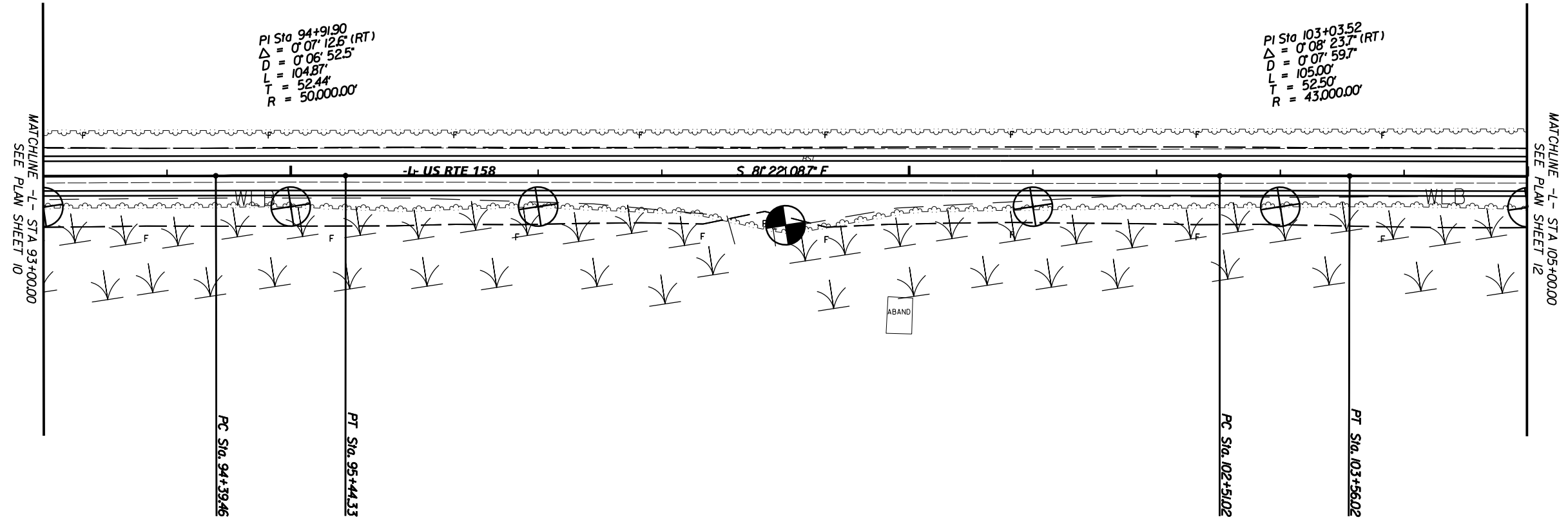
PI Sta 94+91.90 $\Delta = 0' 07' 12.6''$ (RT) $D = 0' 06' 52.5''$ $L = 104.87'$ $T = 52.44'$ $R = 50,000.00'$	PI Sta 103+03.52 $\Delta = 0' 08' 23.7''$ (RT) $D = 0' 07' 59.7''$ $L = 105.00'$ $T = 52.50'$ $R = 43,000.00'$
--	---

NAD 83/NSRS 2007

95

100

105



REVISIONS

\$DATE\$

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

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

5/14/98

-L-

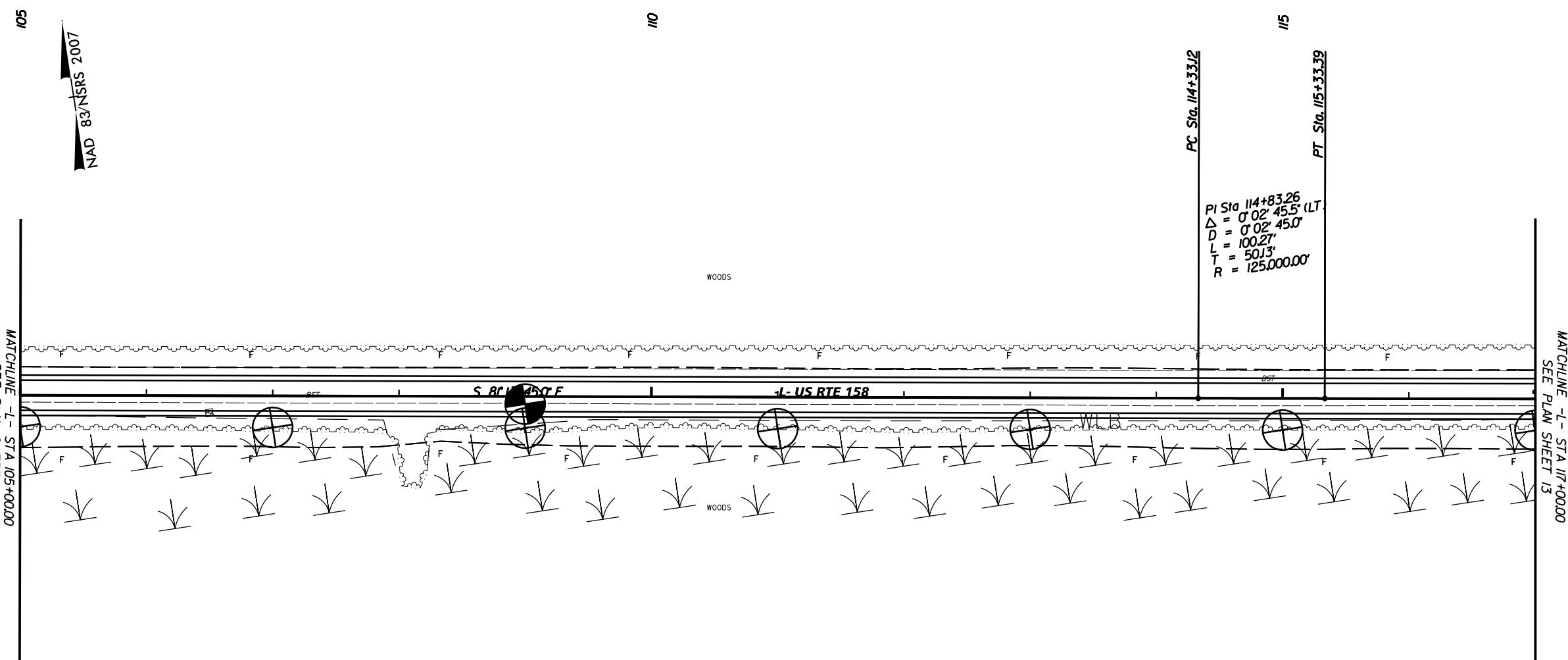
PI Sta 114+83.26  
Δ = 0° 02' 45.5" (LT)  
D = 0° 02' 45.0"  
L = 100.27'  
T = 50.13'  
R = 125,000.00'

**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. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS



\$DATE\$

SEE SHEET NO. 26 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

5/14/98

-L-

PI Sta 119+83.31  
Δ = 0° 07' 00.6" (LT)  
D = 0° 06' 52.5"  
L = 101.95'  
T = 50.97'  
R = 50,000.00'

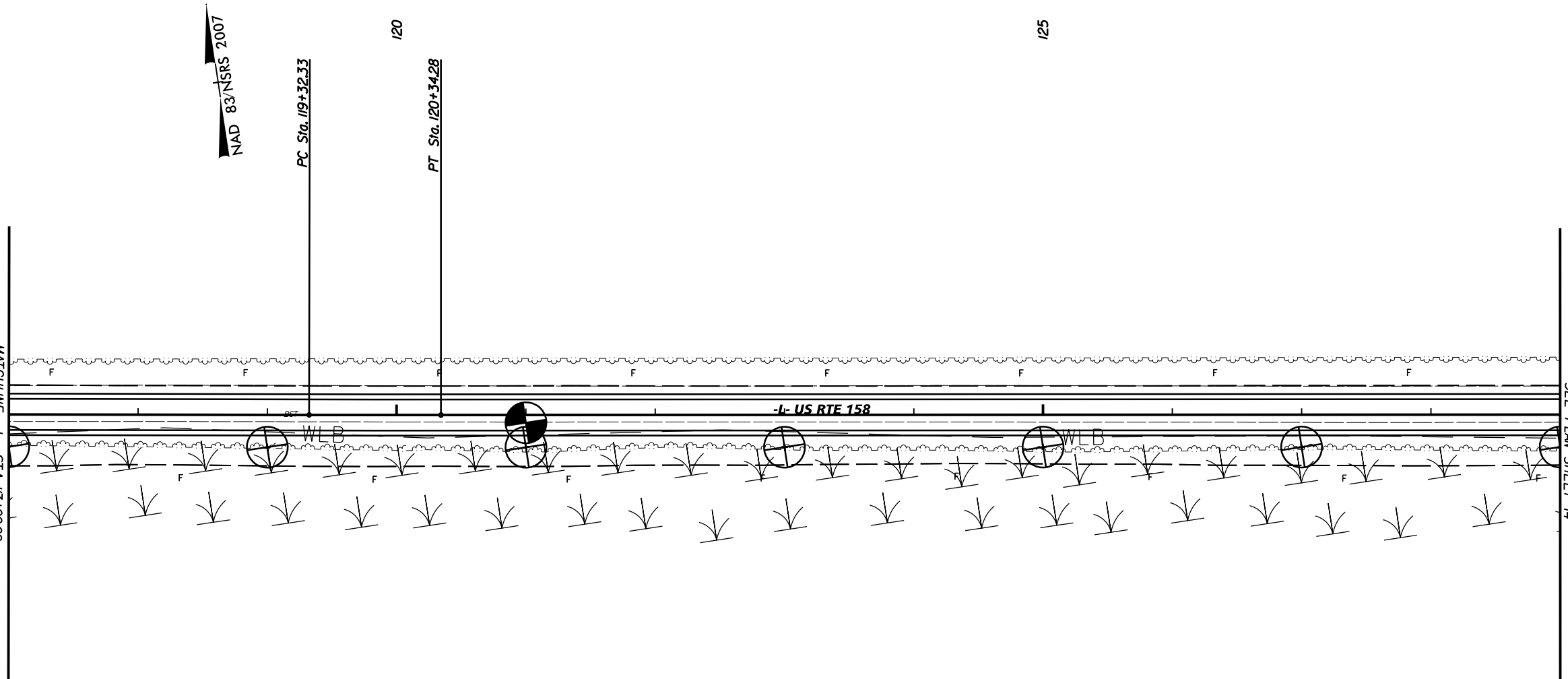
**Kimley»Horn**  
4525 MAIN STREET, SUITE 1000  
VIRGINIA BEACH, VA 23462

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

PROJECT REFERENCE NO. R-5808	SHEET NO. 13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

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



\$DATE\$

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

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

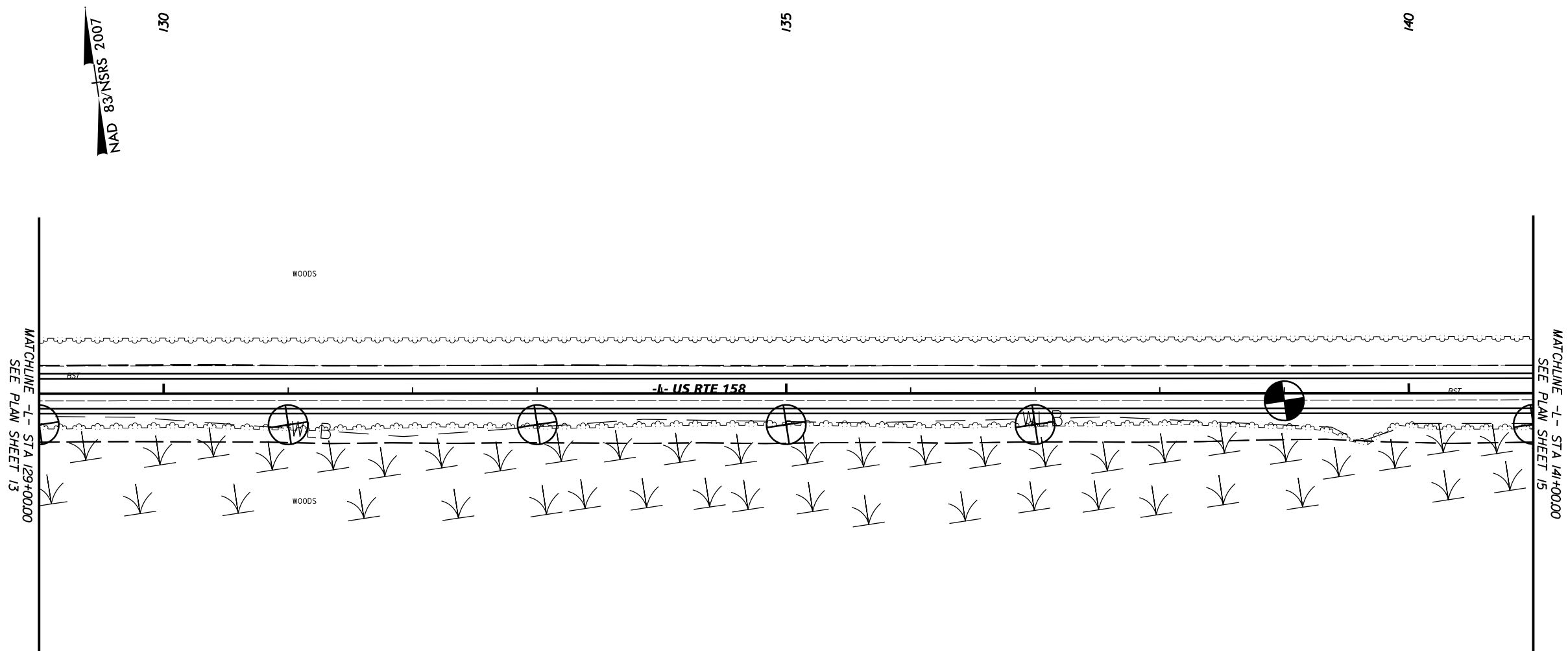
5/14/98

**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. 14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS



\$DATE\$

SEE SHEET NO. 27 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

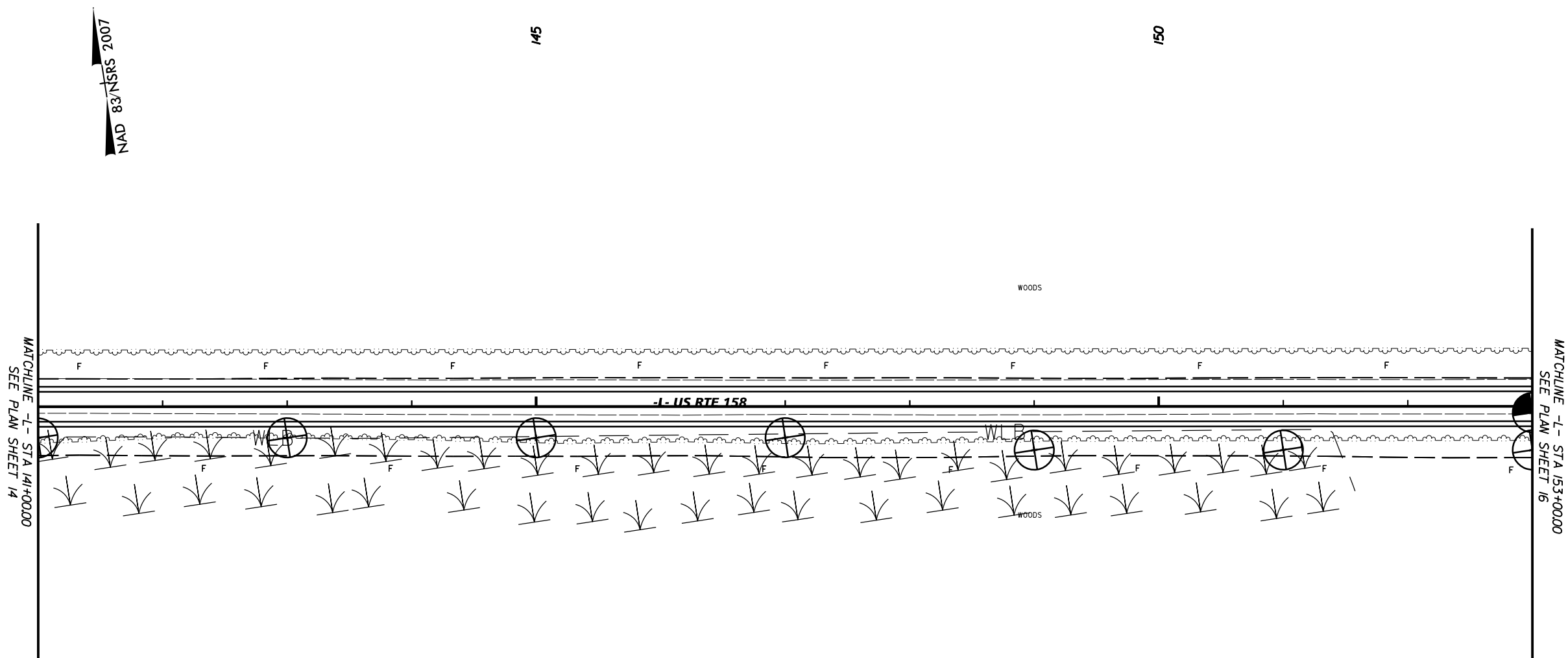
5/14/98

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

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

PROJECT REFERENCE NO. <i>R-5808</i>	SHEET NO. <i>15</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS



\$DATE\$

SEE SHEET NO. 27 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

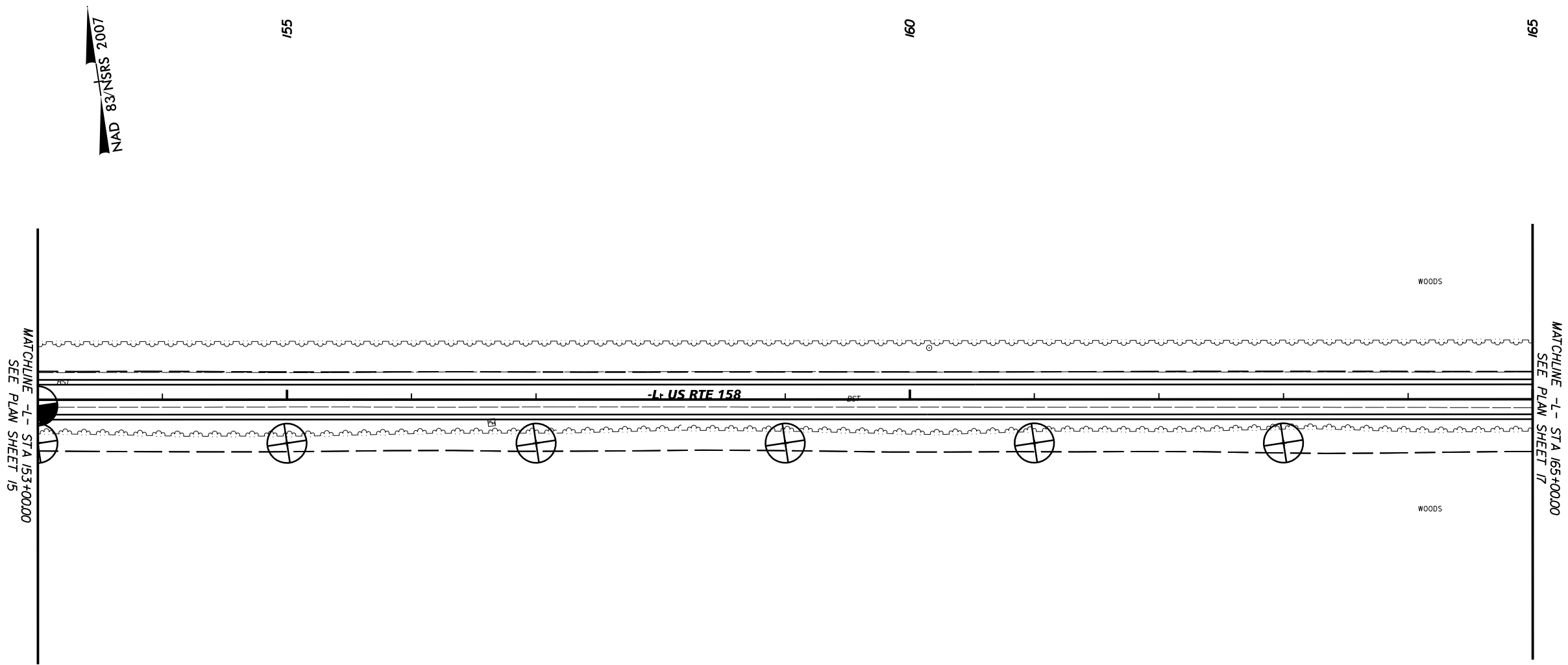
5/14/98

**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. 16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS



MATCHLINE -L- STA 153+00.00  
SEE PLAN SHEET 15

MATCHLINE -L- STA 165+00.00  
SEE PLAN SHEET 17

SEE SHEET NO. 27 AND 28 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

\$DATE\$



5/14/98

**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 17

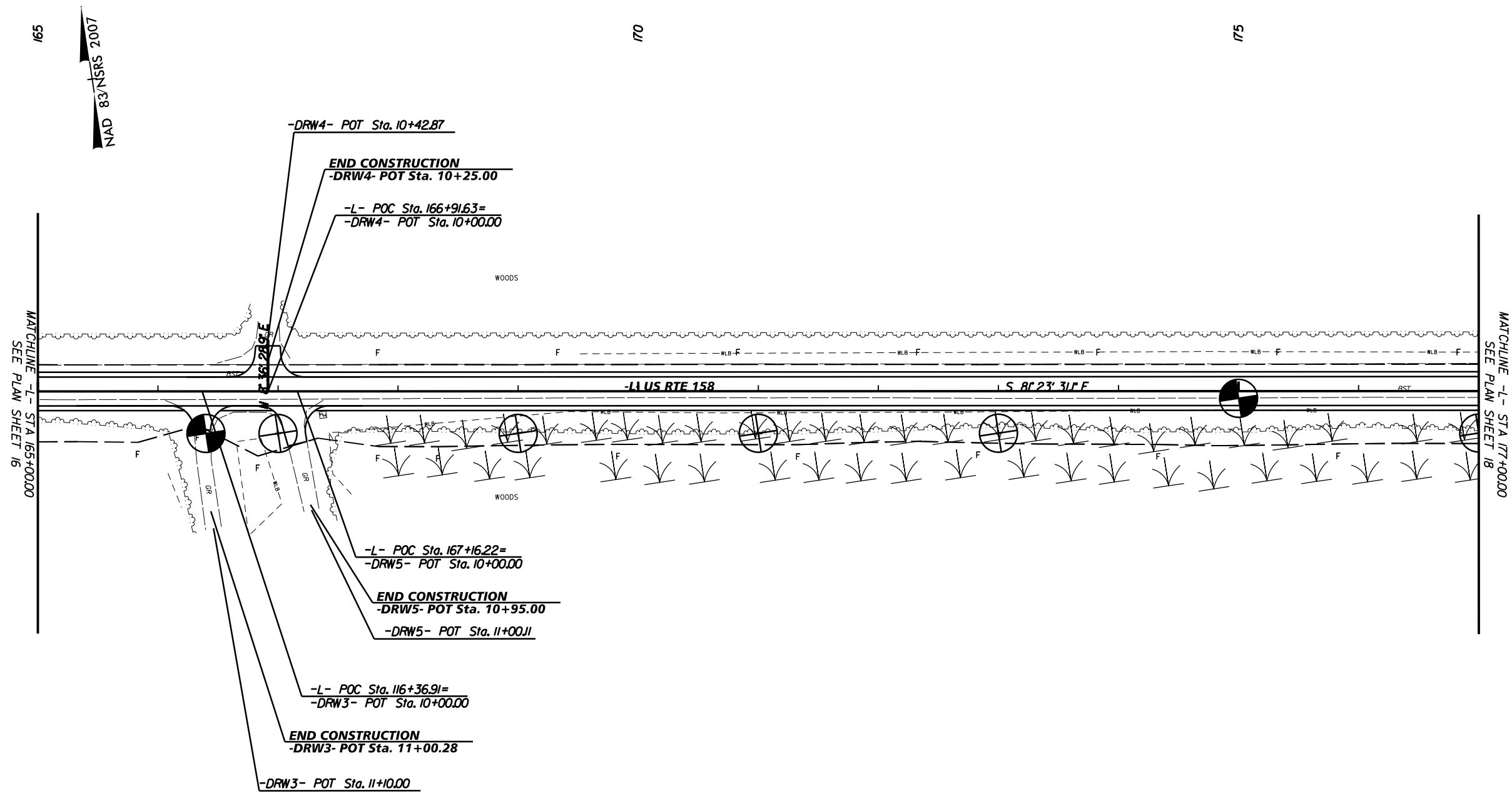
R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

REVISIONS



\$DATE\$

SEE SHEET NO. 28 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

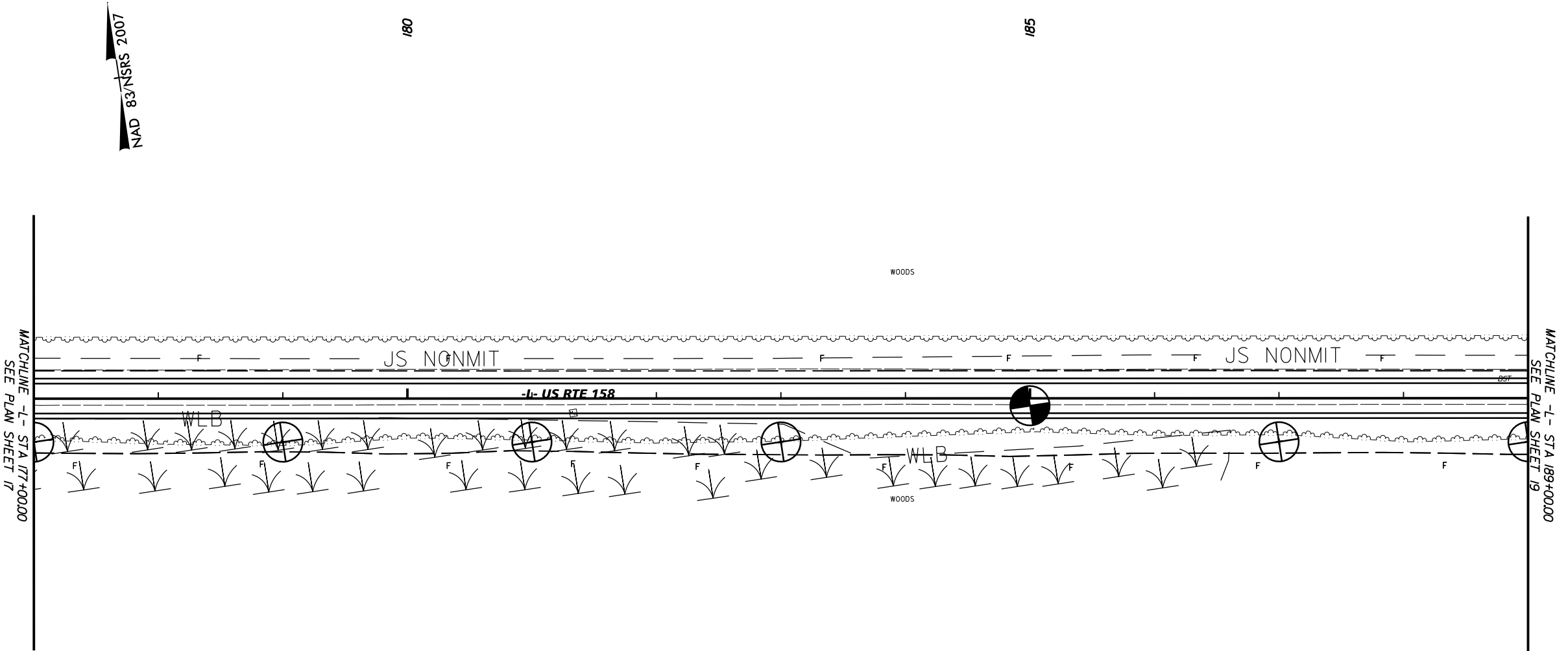
5/14/98

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

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

PROJECT REFERENCE NO. <i>R-5808</i>	SHEET NO. <i>18</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS



\$DATE\$

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

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

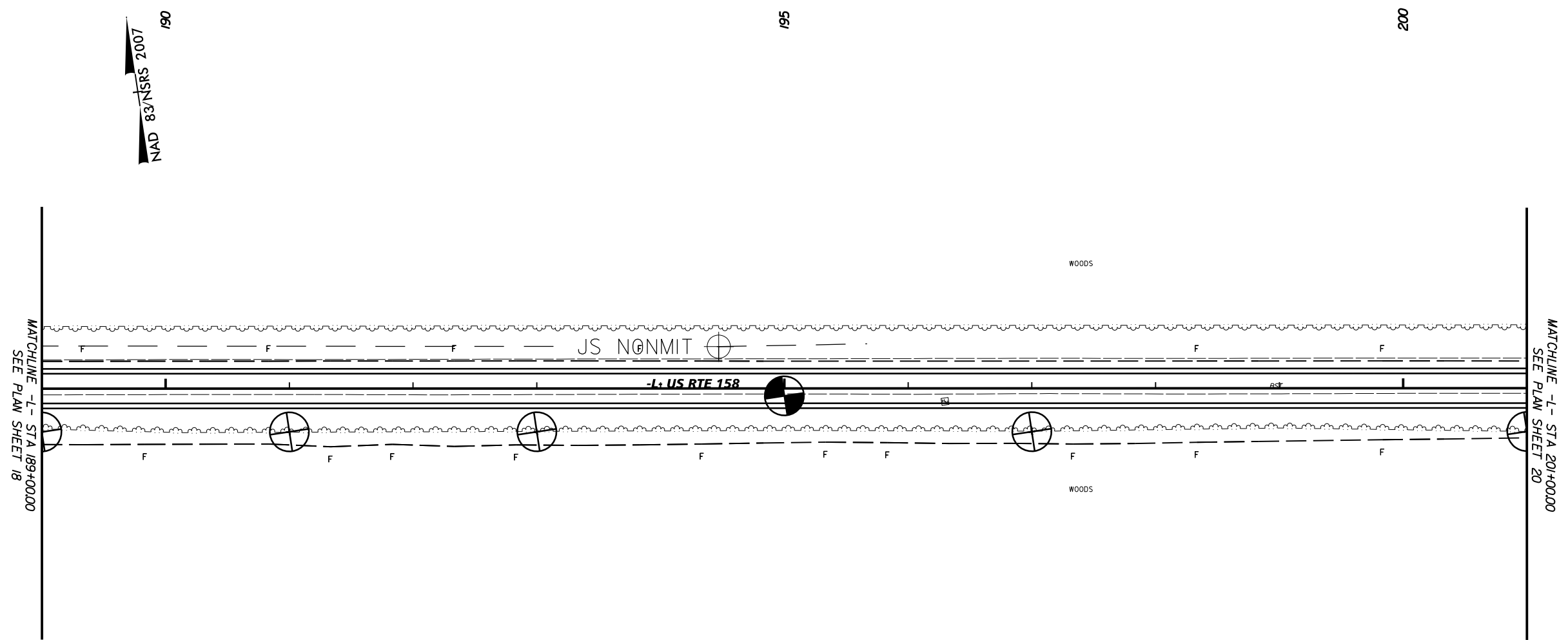
5/14/98

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

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

PROJECT REFERENCE NO. <i>R-5808</i>	SHEET NO. <i>19</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS



\$DATE\$

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

5/14/98

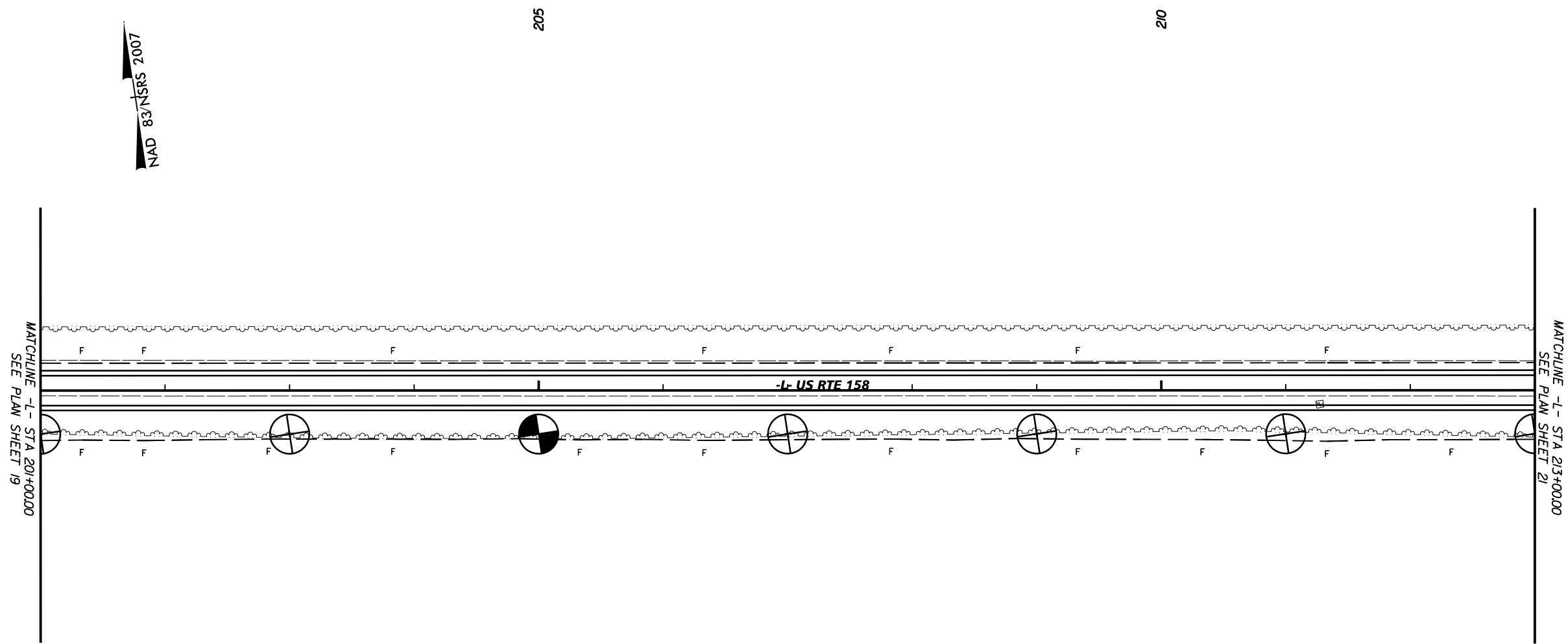
REVISIONS

\$DATE\$

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

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

PROJECT REFERENCE NO. <i>R-5808</i>	SHEET NO. <i>20</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



SEE SHEET NO. 29 AND 30 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

5/14/98

**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

21

R/W SHEET NO.

ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

REVISIONS

NAD 83/NSRS 2007

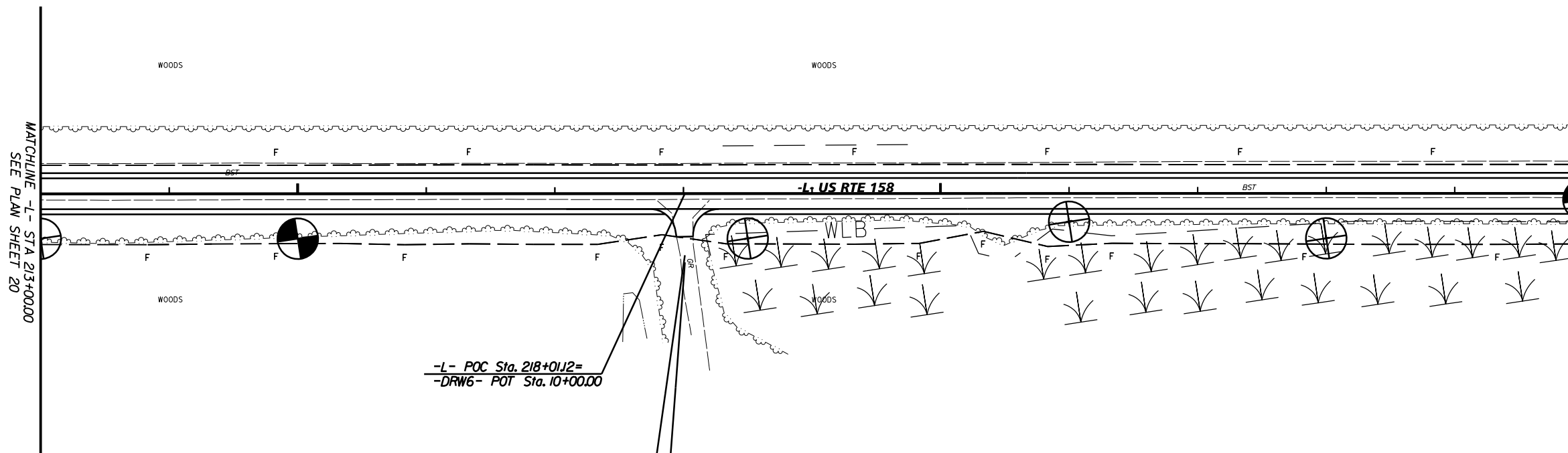
215

220

225

MATCHLINE -L- STA 213+00.00  
SEE PLAN SHEET 20

MATCHLINE -L- STA 225+00.00  
SEE PLAN SHEET 22



-L- POC Sta. 218+01.2=  
-DRW6- POT Sta. 10+00.00

**END CONSTRUCTION**  
-DRW6- POT Sta. 10+48.00  
-DRW6- POT Sta. 10+53.56

SEE SHEET NO. 30 FOR -L- PROFILE

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

\$DATE\$

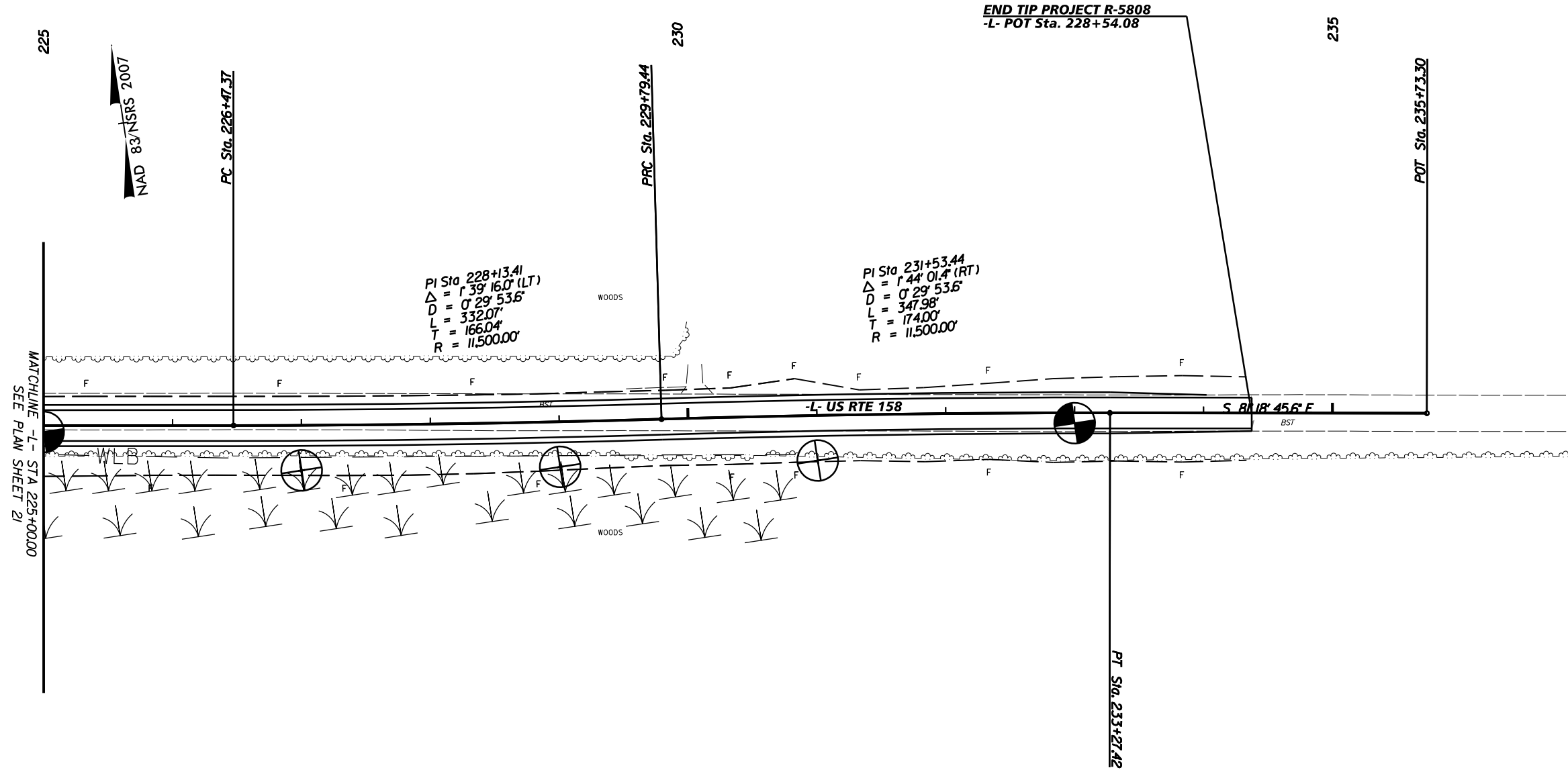
5/14/98

**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. 22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



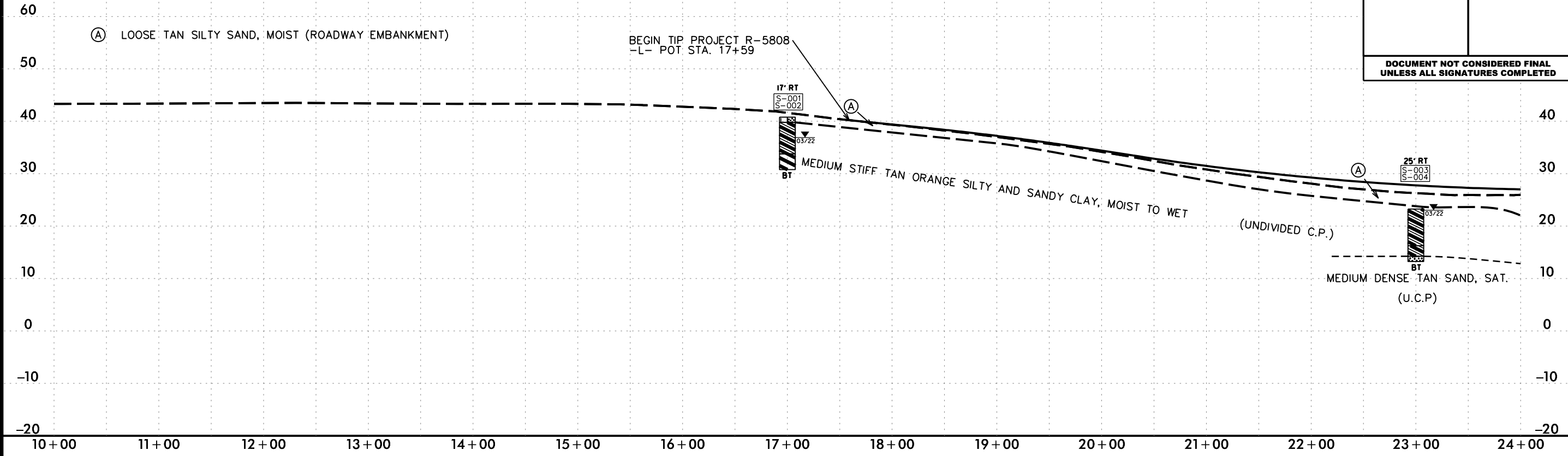
\$DATE\$

SEE SHEET NO. 30 FOR -L- PROFILE

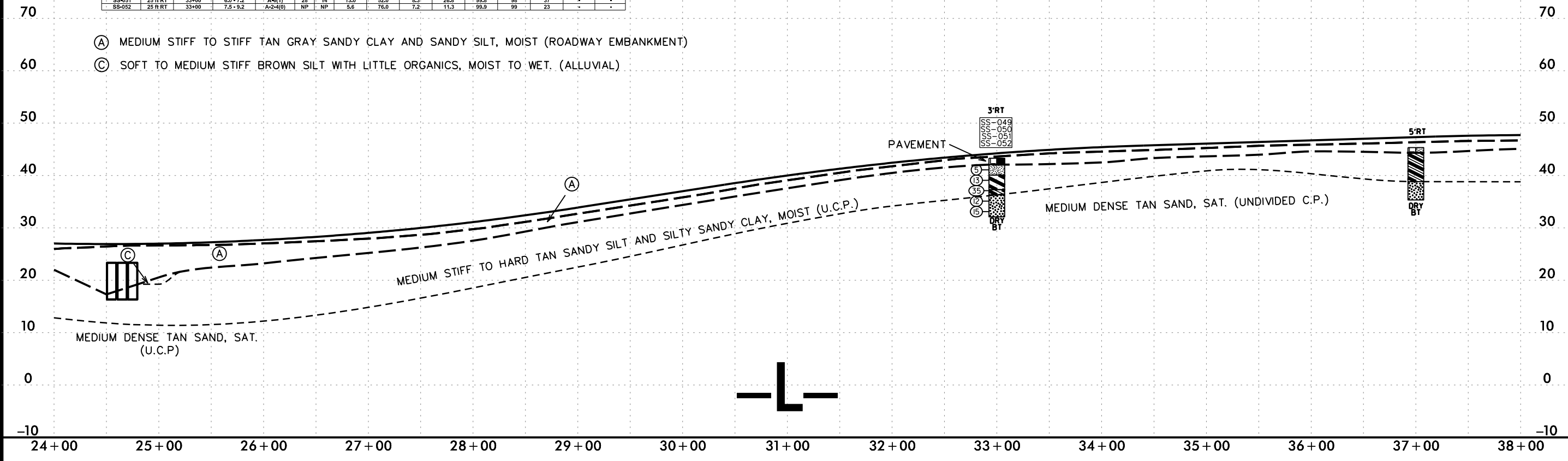
**INCOMPLETE PLANS**  
 DO NOT USE FOR R/W ACQUISITION

PROJECT REFERENCE NO.	SHEET NO.
R-5808	23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

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-001	25 FT RT	17+00	1.0 - 7.0	A-6(11)	31	15	4.7	16.5	49.4	38.4	99.8	99	82	22	-
S-002	25 FT RT	17+00	7.0 - 10.0	A-7-5(15)	44	26	6.4	46.2	17.9	41.5	100	100	65	-	-
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	-	-



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-049	25 FT RT	33+00	1.2 - 3.2	A-4(1)	22	9	26.3	29.7	21.3	22.1	97.6	94	45	-	-
SS-050	25 FT RT	33+00	3.2 - 5.2	A-7-8(28)	57	36	9.6	15.4	21.2	53.8	100	99	77	-	-
SS-051	25 FT RT	33+00	6.0 - 7.2	A-6(1)	28	14	13.0	52.0	8.3	26.8	99.8	98	37	-	-
SS-052	25 FT RT	33+00	7.5 - 9.2	A-2-4(0)	NP	NP	5.6	76.0	7.2	11.3	99.9	99	23	-	-

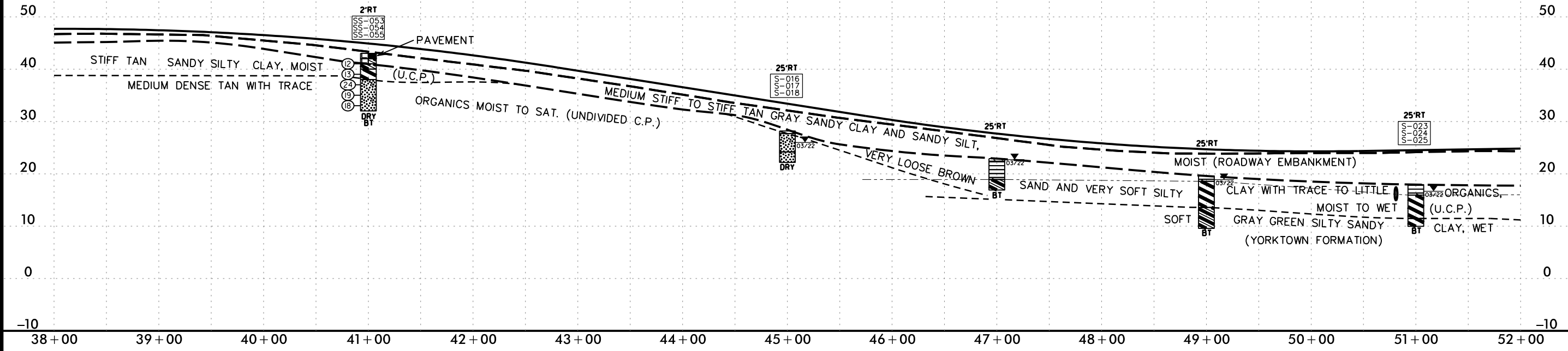


09-NOV-2022 14:29  
 C:\Users\Lee.Stone\OneDrive - cotinus\Projects\NCDOT\RES0808\_GEO\_RDWY\_CADD\_GEO\TECH\Plan\Prof\RES0808\_GEO\_PFL\_23.dgn  
 Lee.Stone

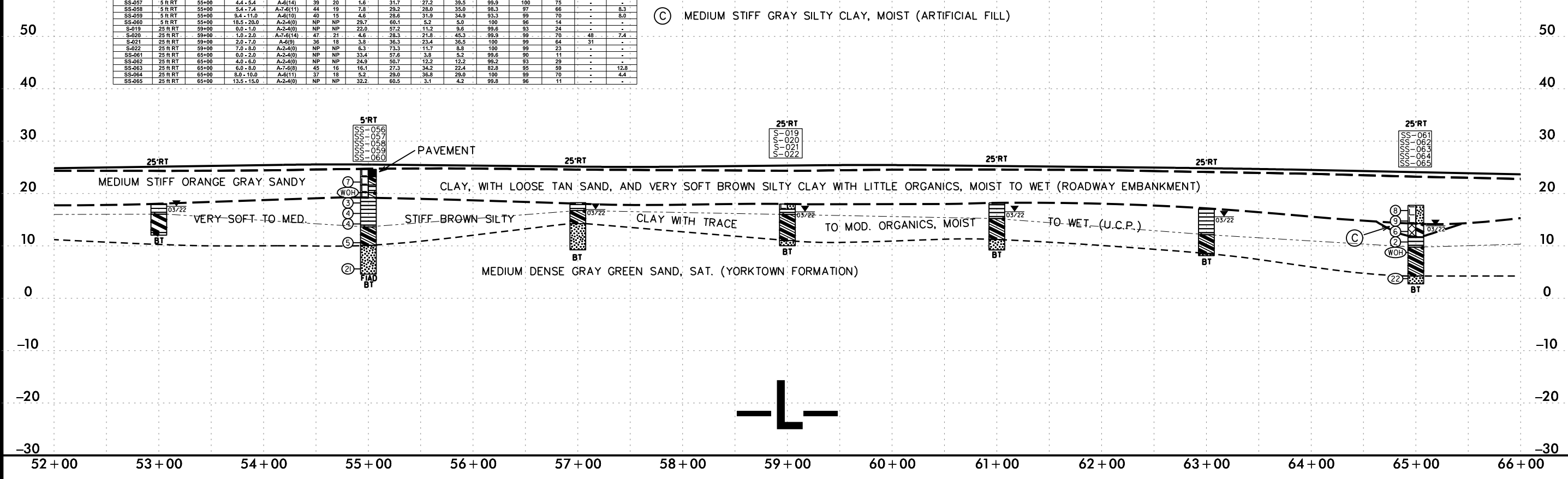
09-NOV-2022 14:29 C:\Users\Lee.Stone\OneDrive\Projects\NCDOT\Projects\RDWY\_CADD\GEO\TECH\Plan\Prof\RS808\_GEO\_PFL\_24.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5808	24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

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' RT	41+00	1.5 - 3.0	A-7-6(9)	37	21	20.9	23.7	14.9	40.5	99.1	97	36	-	-
SS-054	2' RT	41+00	3.0 - 5.0	A-7-6(20)	44	26	5.3	29.7	29.7	45.3	99.8	99	80	-	-
SS-055	2' 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' 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	6.7
S-017	25' 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' 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' 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	9.0
S-024	25' 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' RT	51+00	6.5 - 9.0	A-7-6(24)	45	26	0.9	17.3	31.1	59.7	99.9	100	89	-	-



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-056	5' RT	55+00	3.4 - 4.4	-	49	20	-	-	-	-	NEM	NEM	NEM	-	11.8
SS-057	5' RT	55+00	4.4 - 5.4	A-6(14)	39	20	1.6	31.7	27.2	39.5	99.9	100	75	-	-
SS-058	5' RT	55+00	5.4 - 7.4	A-7-6(11)	44	19	7.8	29.2	28.0	35.0	99.3	97	66	-	8.3
SS-059	5' RT	55+00	5.4 - 11.0	A-6(10)	40	15	4.6	28.6	31.9	34.9	93.3	99	70	-	8.0
SS-060	5' 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' RT	59+00	0.0 - 1.0	A-2-4(0)	NP	NP	22.0	57.2	11.2	3.6	99.6	93	24	-	-
S-020	25' 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	49	7.4
S-021	25' RT	59+00	2.0 - 7.0	A-6(0)	36	18	3.8	35.3	23.4	35.5	100	99	64	31	-
S-022	25' 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' 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' RT	65+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.9	56.7	12.2	12.2	99.2	93	29	-	-
SS-063	25' RT	65+00	6.0 - 8.0	A-7-6(9)	45	15	16.1	27.3	34.2	22.4	82.8	95	59	-	12.8
SS-064	25' 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' 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	-	-

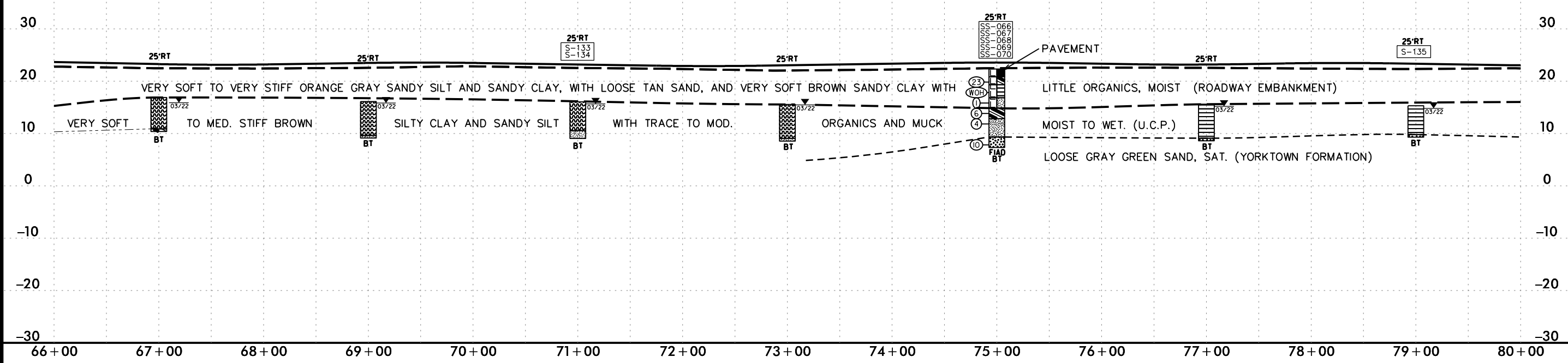




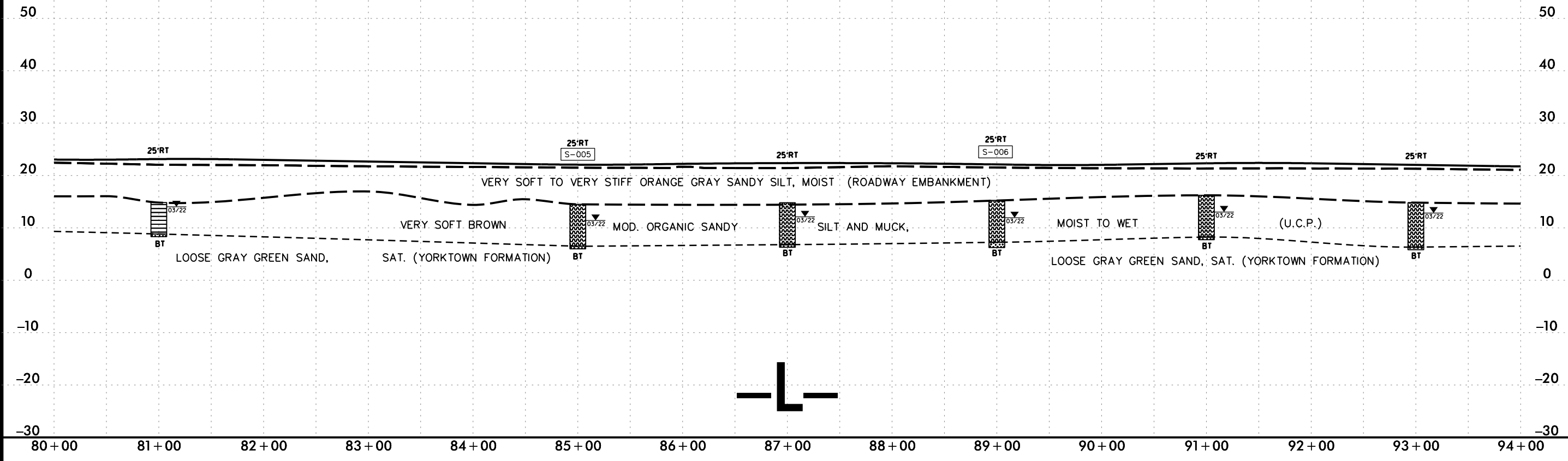
5/28/2022 14:29  
 C:\Users\Lee.Stone\OneDrive\Projects\NCDOT\Projects\RDWY\CADD\GEO\TECH\Plan\Prof\RS5808\_GEO\_PFL\_25.dgn  
 Lee.Stone

PROJECT REFERENCE NO.	SHEET NO.
R-5808	25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

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	48.3	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	15.7	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



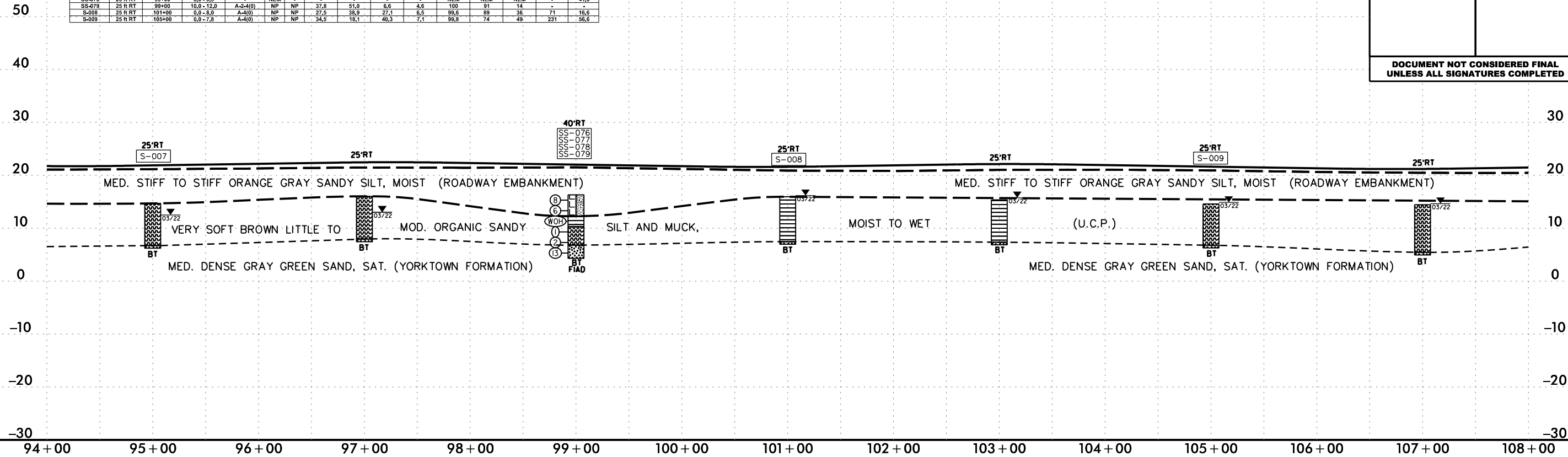
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT			% PASSING SIEVES			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
S-005	25 FT RT	85+00	0.0 - 8.0	A-4(0)	NP	NP	8.9	14.8	65.6	10.7	100	95	77	391	29.3
S-006	25 FT RT	89+00	0.0 - 8.0	A-4(0)	NP	NP	20.8	22.2	49.4	7.5	99	93	58	173	34.6



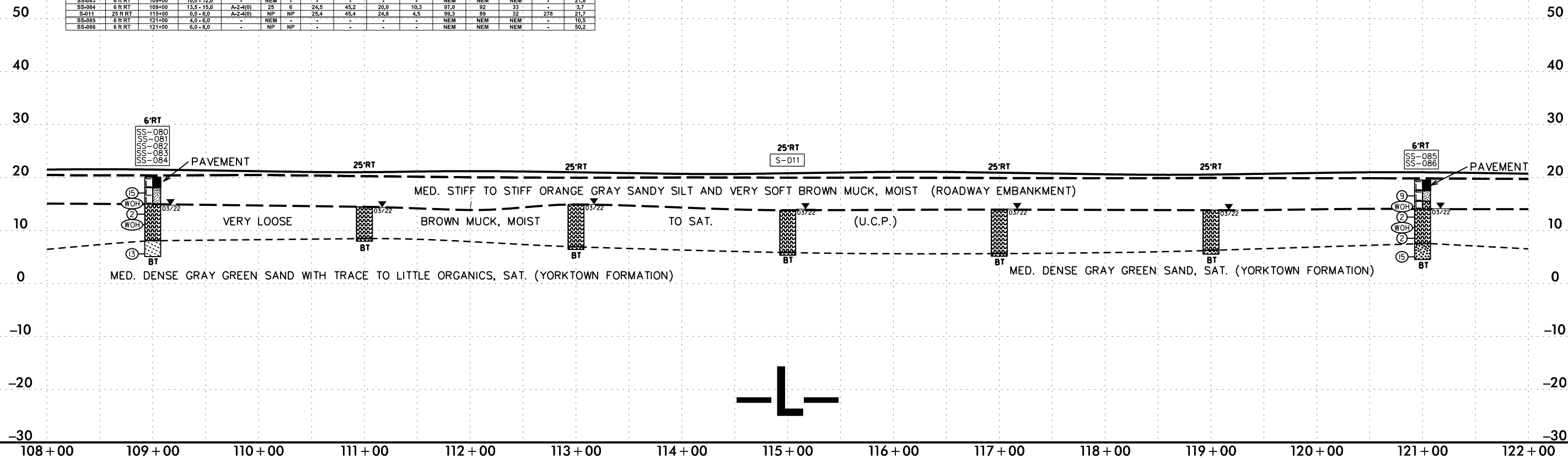
5/28/2022 14:29 C:\Users\Lee.Stone\OneDrive\Projects\NCDOT\RES808\_GEO\_RDWY\_CADD\_GEO\TECH\A1\enPr\of\RES808\_GEO\_PFL\_26.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5808	26
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

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' 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' RT	99+00	4.0 - 5.0	A-6(1)	29	11	21.5	40.7	21.1	15.6	97.5	93	41	-	6.0
SS-077	25' RT	99+00	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	52.1
SS-078	25' RT	99+00	8.0 - 9.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	41.8
SS-079	25' 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' RT	101+00	0.0 - 5.0	A-4(0)	NP	NP	27.5	39.9	27.1	5.5	95.6	89	36	71	16.6
S-009	25' 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	56.6



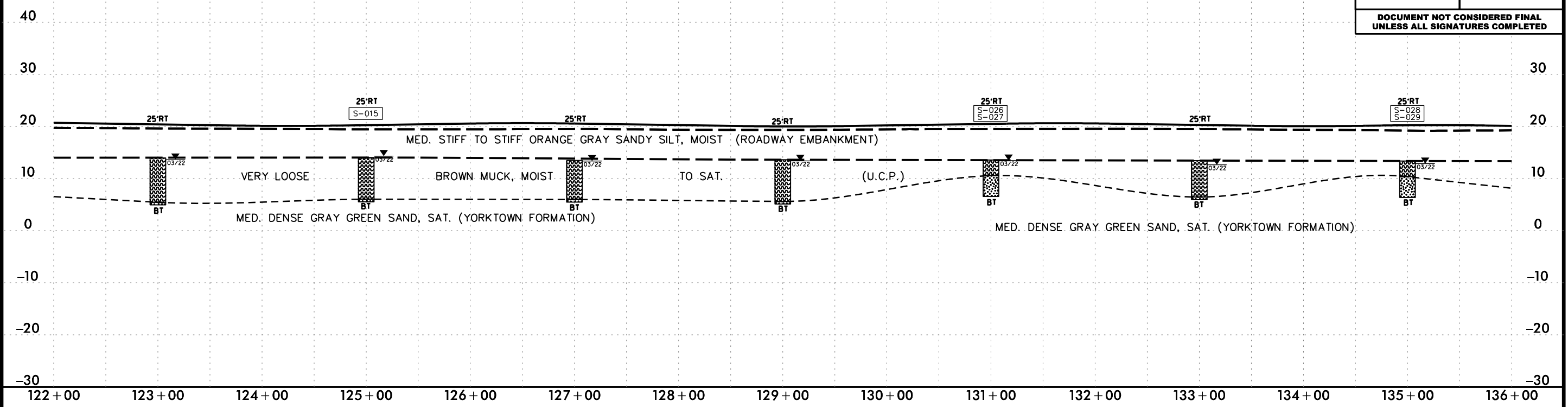
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVES			MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-080	6' RT	109+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	72.3
SS-081	6' RT	109+00	6.0 - 8.0	A-2-4(0)	NP	NP	17.5	59.2	13.0	10.4	90.8	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	96	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	97.9	92	33	-	3.7
S-011	25' RT	115+00	0.0 - 5.0	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



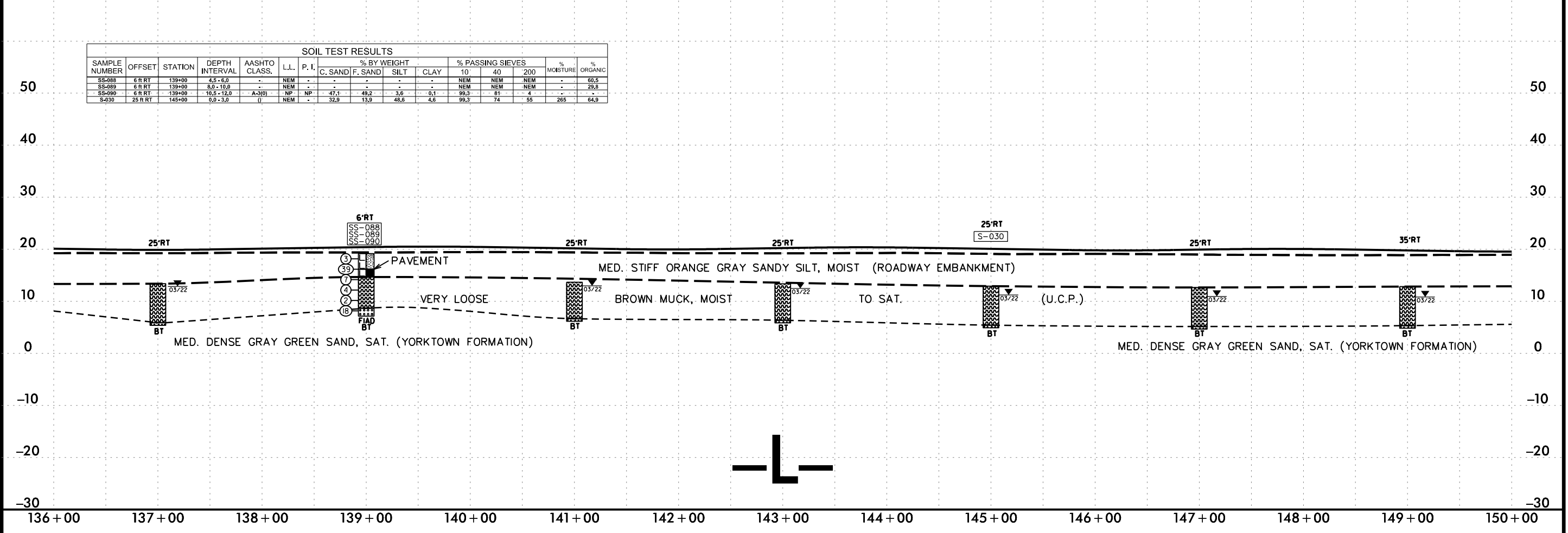
5/28/2022

PROJECT REFERENCE NO.		SHEET NO.
R-5808		27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION		
<b>DOCUMENT NOT CONSIDERED FINAL</b> 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-015	25 R RT	125+00	0.0 - 3.0	A-2-4(0)	NP	NP	73.7	8.4	16.7	0.2	99.7	35	18	575	83.8
S-026	25 R RT	131+00	0.0 - 3.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	560	71.6
S-027	25 R RT	131+00	3.0 - 7.0	A-2-4(0)	NP	NP	42.8	35.2	13.4	8.6	99.2	81	23	-	-
S-028	25 R RT	135+00	0.0 - 3.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	-	74.1
S-029	25 R RT	135+00	3.0 - 7.0	( )	NEM	-	43.3	34.3	18.4	4.0	99.0	79	23	-	-



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-085	6 R RT	139+00	4.5 - 6.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	60.5	
SS-089	6 R RT	139+00	8.0 - 10.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	29.8	
SS-090	6 R RT	139+00	10.5 - 12.0	A-3(0)	NP	NP	47.1	48.2	3.6	0.1	99.3	81	4	-	
S-030	25 R RT	145+00	0.0 - 3.0	( )	NEM	-	32.9	13.9	48.6	4.6	99.3	74	55	265	64.9

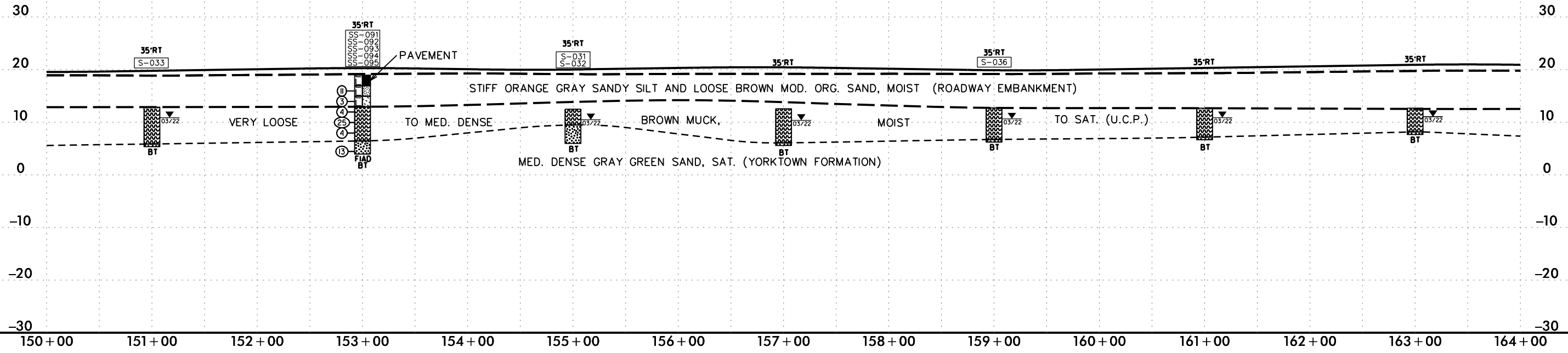


09-NOV-2022 14:29  
 C:\Users\Lee.Stone\OneDrive\Projects\NCDOT\RS5808\_GEO\_RDWY\_CADD\_GEO\TECH\PLAN\Pr of R5808\_GEO\_PFL\_27.dgn  
 Lee.Stone

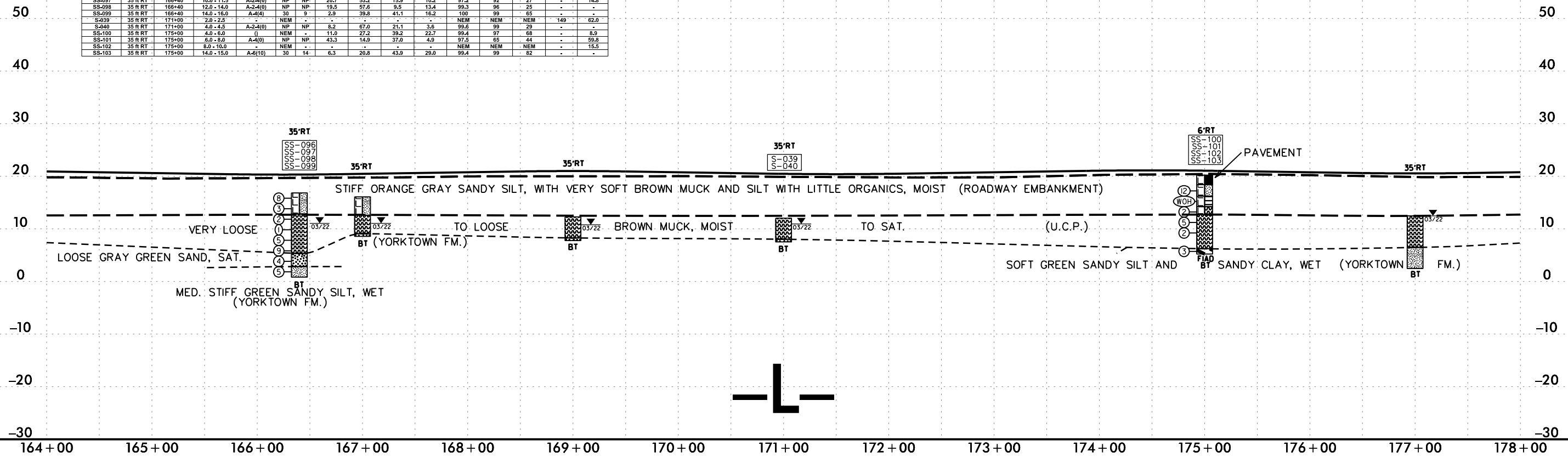
5/28/2022

PROJECT REFERENCE NO. <b>R-5808</b>		SHEET NO. <b>28</b>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION			
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED			

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-033	35 R RT	151+00	0.0 - 3.0	-	NEM	-	-	-	-	NEM	NEM	NEM	436	73.4	
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	7.8	
SS-092	35 R 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 R RT	153+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	51.8	
SS-094	35 R RT	153+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	73.9	
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	78.7	
S-032	35 R RT	155+00	3.0 - 6.5	A-2-4(0)	NP	NP	17.5	72.9	7.3	2.3	99	97	11	-	
S-036	35 R RT	159+00	3.0 - 3.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	77.4	



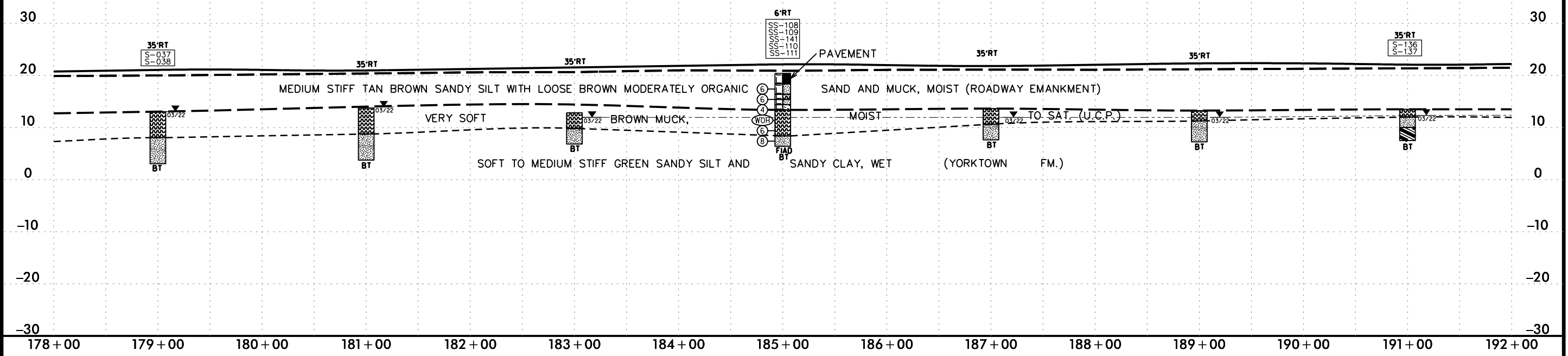
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-096	35 R RT	166+40	6.0 - 8.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	46.1	
SS-097	35 R RT	166+40	10.0 - 11.5	A-2-4(0)	NP	NP	20.7	53.2	15.9	10.2	97.2	92	27	14.8	
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	9	2.9	39.8	41.1	16.2	100	99	85	-	
S-039	35 R RT	171+00	2.0 - 2.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	149	
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	39.2	22.7	99.4	97	68	8.9	
SS-101	35 R RT	175+00	6.0 - 8.0	A-4(0)	NP	NP	43.3	14.9	37.6	-	97.5	65	44	59.8	
SS-102	35 R RT	175+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	15.5	
SS-103	35 R RT	175+00	14.0 - 15.0	A-6(10)	30	14	6.3	20.8	43.9	29.0	99.4	99	82	-	



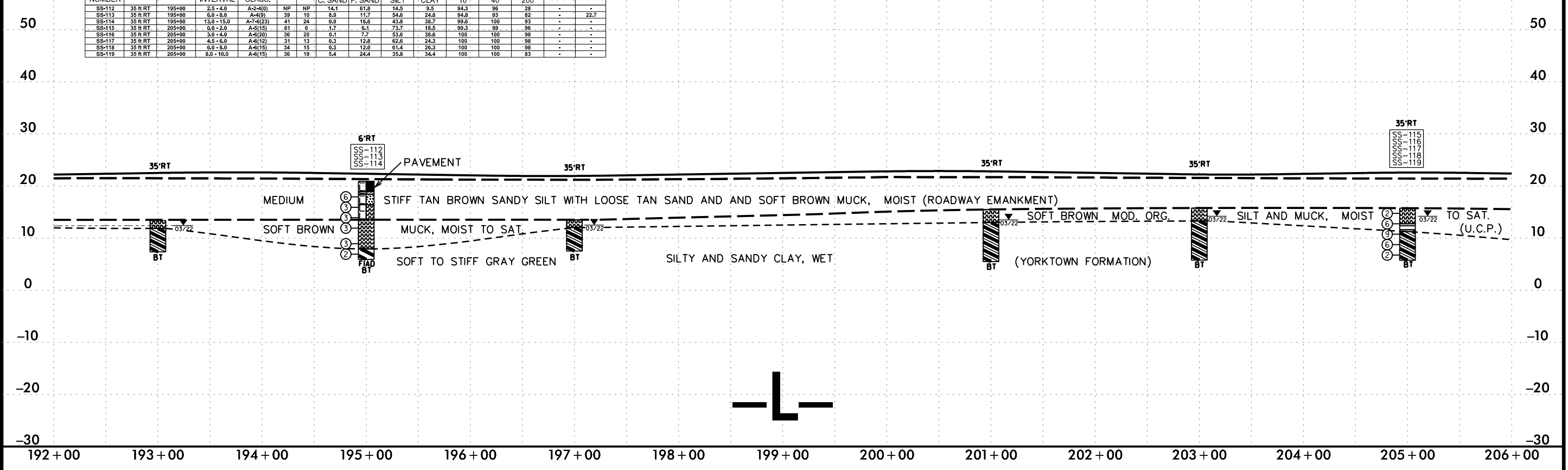
09-NOV-2022 14:29  
 C:\Users\Lee Stone\OneDrive\Projects\NCDOT\RS5808\_GEO\_RDWY\_CADD\_GEO\TECH\A1\enPr\FR5808\_GEO\_PFL\_28.dgn  
 Lee Stone

PROJECT REFERENCE NO.	SHEET NO.
R-5808	29
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

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				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	89	-	-
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	88.6	82	65	-	20.9
SS-141	6 FT RT	185+00	5.0 - 6.0	A-4(0)	NP	NP	13.0	44.4	28.6	12.9	99.4	99	48	-	-
SS-110	6 FT RT	185+00	6.0 - 7.0	A-2-4(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	-	-	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	98.9	100	98	-	-



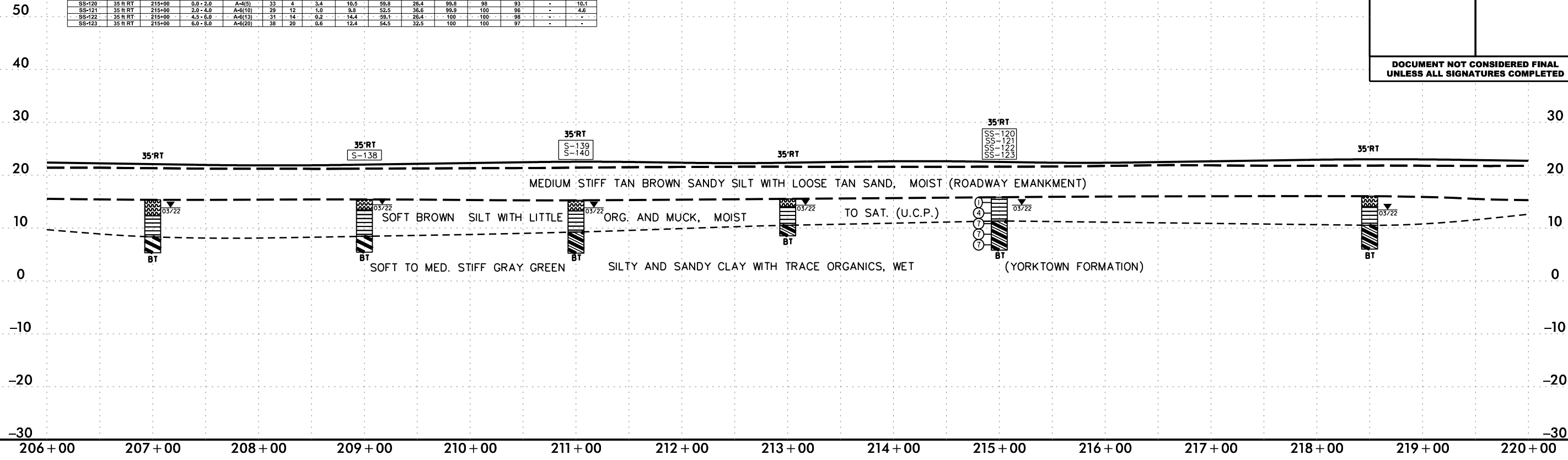
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-112	35 FT RT	195+00	2.5 - 4.0	A-2-4(0)	NP	NP	14.1	61.8	14.5	9.5	94.3	96	28	-	-
SS-113	35 FT RT	195+00	6.0 - 8.0	A-4(0)	39	10	8.9	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-6(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	-	-



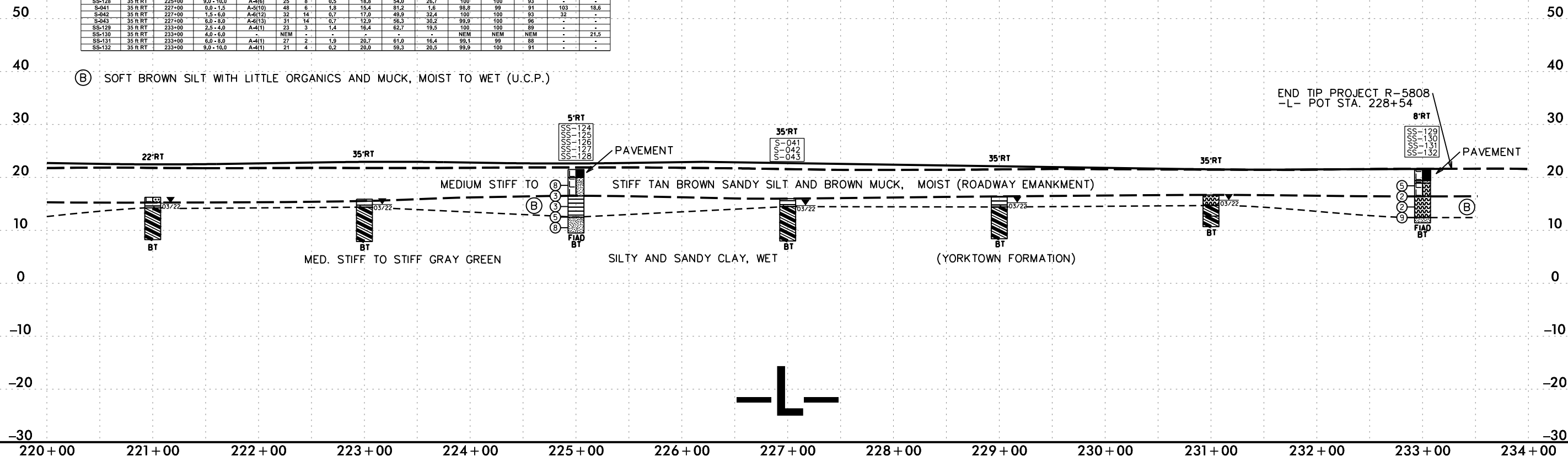
09-NOV-2022 14:30  
 C:\Users\Lee.Stone\OneDrive\Projects\NCDOT\Projects\RDWY\_CADD\GEO\TECH\Plan\Prof\R5808\_GEO\_PFL\_29.dgn  
 Lee.Stone

PROJECT REFERENCE NO.	SHEET NO.
R-5808	30
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> 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-138	35 FT RT	209+00	1.0-1.5	A-5(13)	62	3	1.3	3.4	76.4	18.9	100	99	97	99	32.3
S-139	35 FT RT	211+00	0.5-1.5	A-5(13)	88	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	-	-
SS-120	35 FT RT	215+00	0.0-2.0	A-4(5)	33	4	3.4	10.5	59.8	26.4	99.8	98	93	-	10.1
SS-121	35 FT RT	215+00	2.0-4.0	A-6(10)	29	12	1.0	9.8	52.5	36.6	99.9	100	96	-	4.6
SS-122	35 FT RT	215+00	4.5-6.0	A-6(13)	31	14	0.2	14.4	59.1	26.4	100	100	98	-	-
SS-123	35 FT RT	215+00	6.0-8.0	A-6(20)	38	20	0.6	12.4	54.5	32.5	100	100	97	-	-

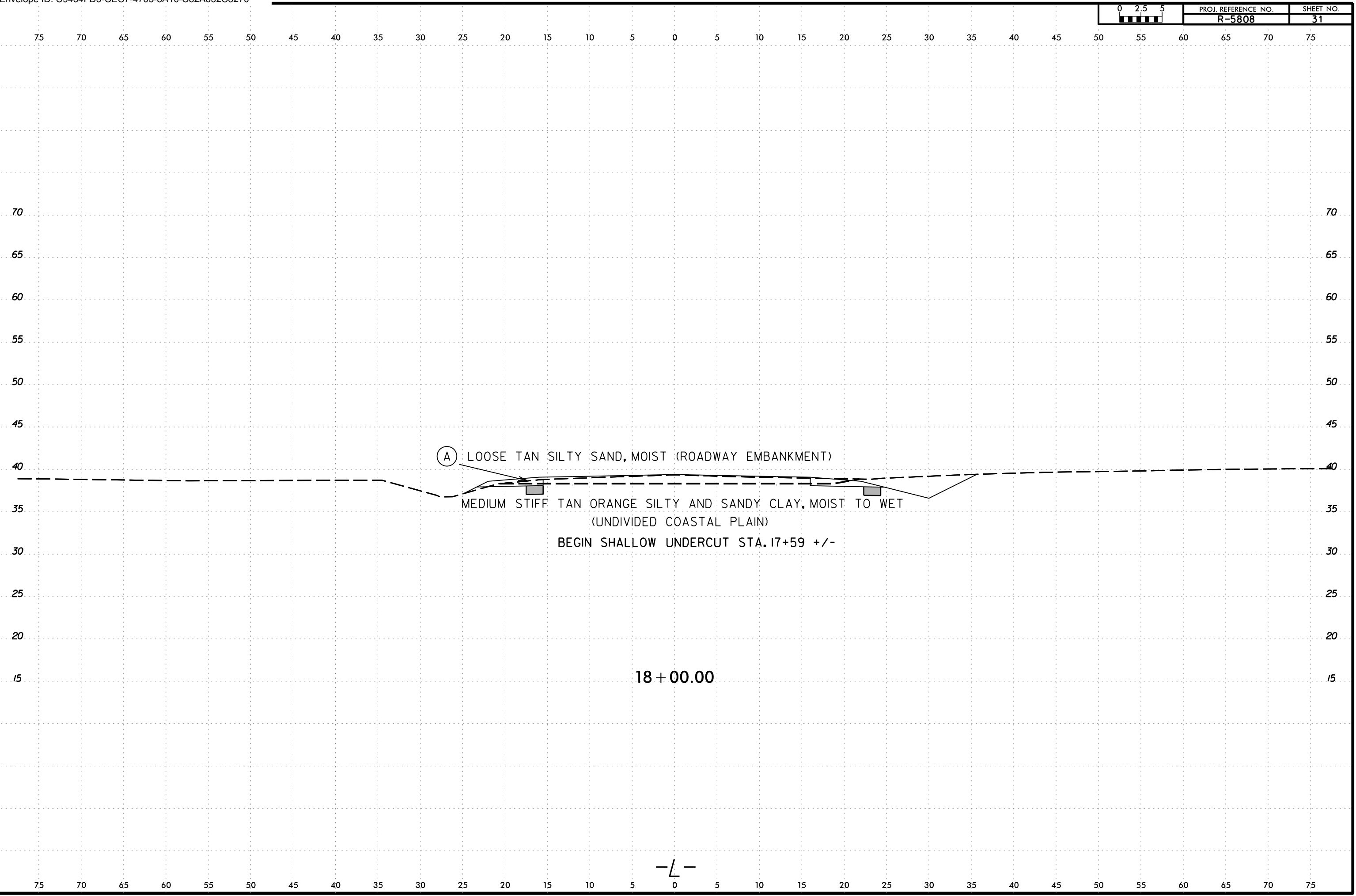


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-124	35 FT RT	225+00	2.0-4.0	A-4(6)	28	8	1.6	18.2	51.7	28.5	100	99	91	-	-
SS-125	35 FT RT	225+00	4.0-6.0	A-6(8)	30	12	7.4	18.4	51.9	22.2	87.2	97	80	-	6.5
SS-126	35 FT RT	225+00	6.0-8.0	A-5(7)	49	1	2.6	14.4	70.8	12.2	94.4	99	90	-	-
SS-127	35 FT RT	225+00	8.0-9.0	A-4(5)	33	4	2.9	16.2	62.7	19.2	95.9	99	90	-	9.9
SS-128	35 FT RT	225+00	9.0-10.0	A-4(6)	25	8	0.5	18.8	54.0	26.7	100	100	93	-	-
S-041	35 FT RT	227+00	0.0-1.5	A-5(10)	48	6	1.8	15.4	81.2	1.6	98.8	99	91	103	18.6
S-042	35 FT RT	227+00	1.5-6.0	A-6(12)	32	14	0.7	17.9	49.9	32.4	100	100	93	32	-
S-043	35 FT RT	227+00	6.0-8.0	A-6(13)	31	14	0.7	12.9	56.3	30.2	99.9	100	96	-	-
SS-129	35 FT RT	233+00	2.5-4.0	A-4(1)	23	3	1.4	16.4	62.7	19.5	100	100	89	-	-
SS-130	35 FT RT	233+00	4.0-6.0	NEM	-	-	-	-	-	-	NEM	NEM	NEM	-	21.5
SS-131	35 FT RT	233+00	6.0-8.0	A-4(1)	27	2	1.9	20.7	61.0	16.4	95.1	99	88	-	-
SS-132	35 FT RT	233+00	9.0-10.0	A-4(1)	21	4	0.2	28.0	59.3	20.5	99.9	100	91	-	-

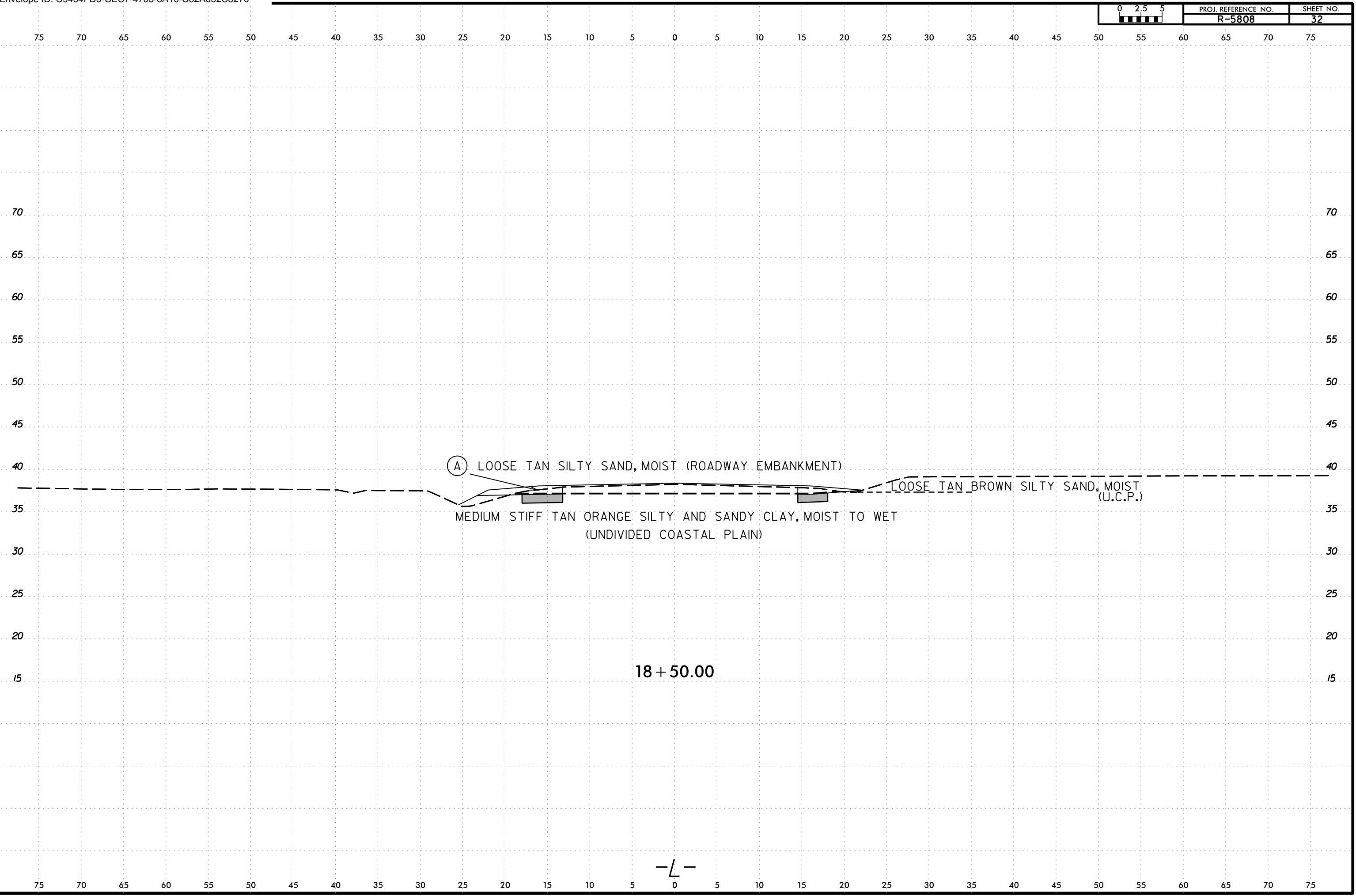


09-NOV-2022 14:30 C:\Users\Lee.Stone\OneDrive\Projects\NCDOT\Projects\RDWY\CADD\GEO\TECH\1anPr\R5808\_GEO\_PFL\_30.dgn

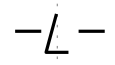
6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
ISTONE



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone

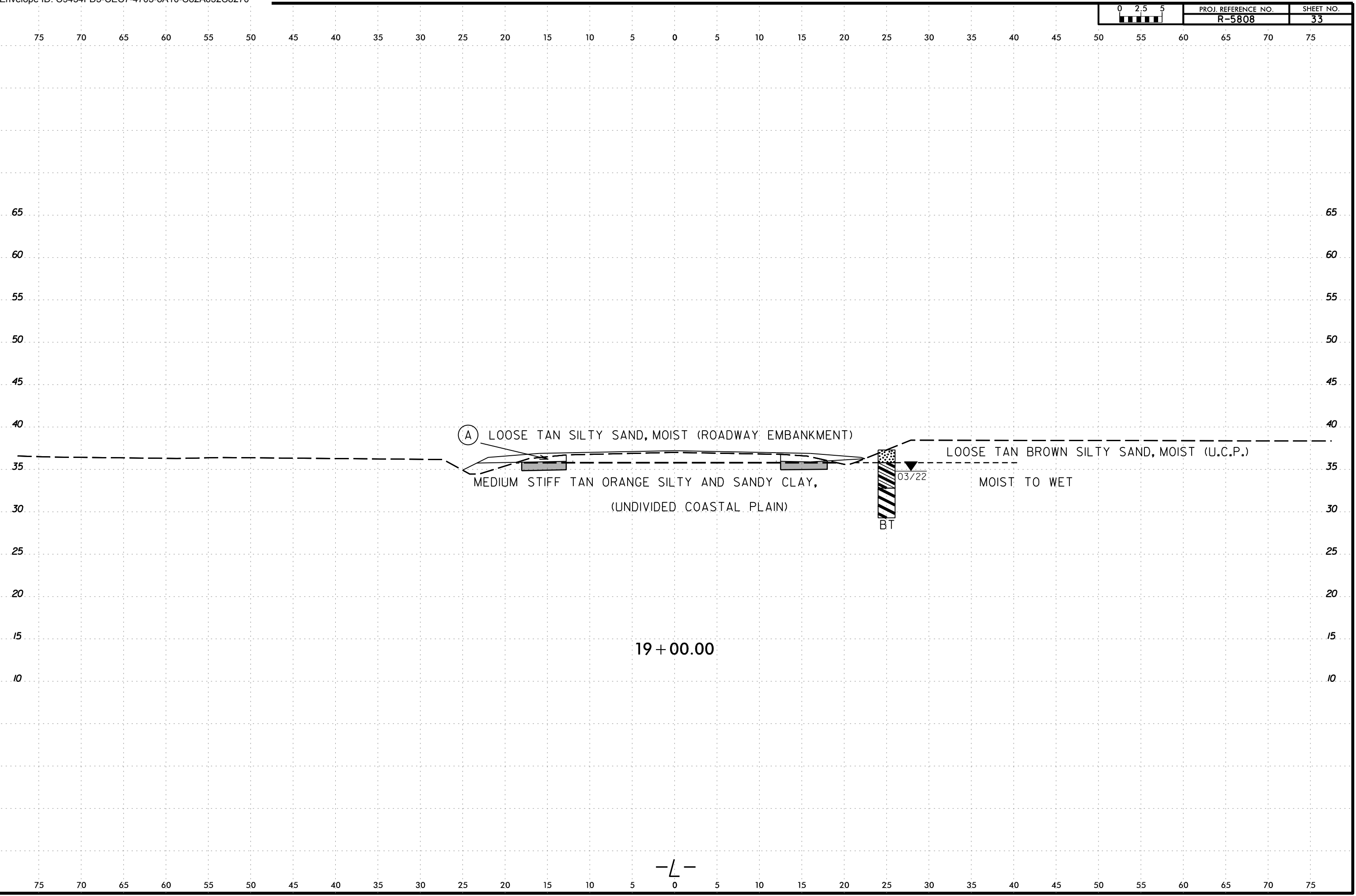


18 + 50.00





6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY,  
(UNDIVIDED COASTAL PLAIN)

LOOSE TAN BROWN SILTY SAND, MOIST (U.C.P.)

MOIST TO WET

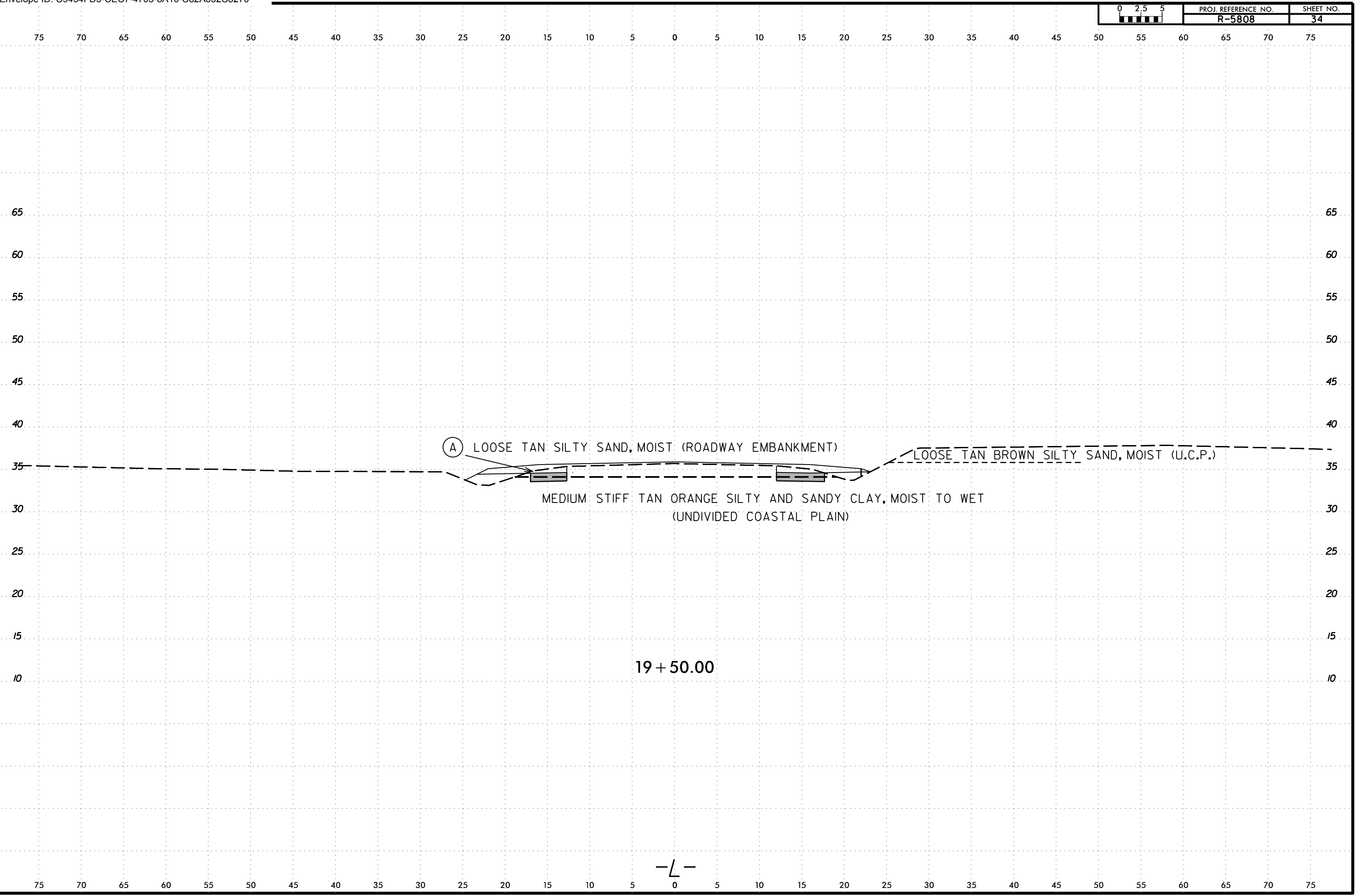
BT

03/22

19 + 00.00

-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

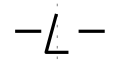


(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

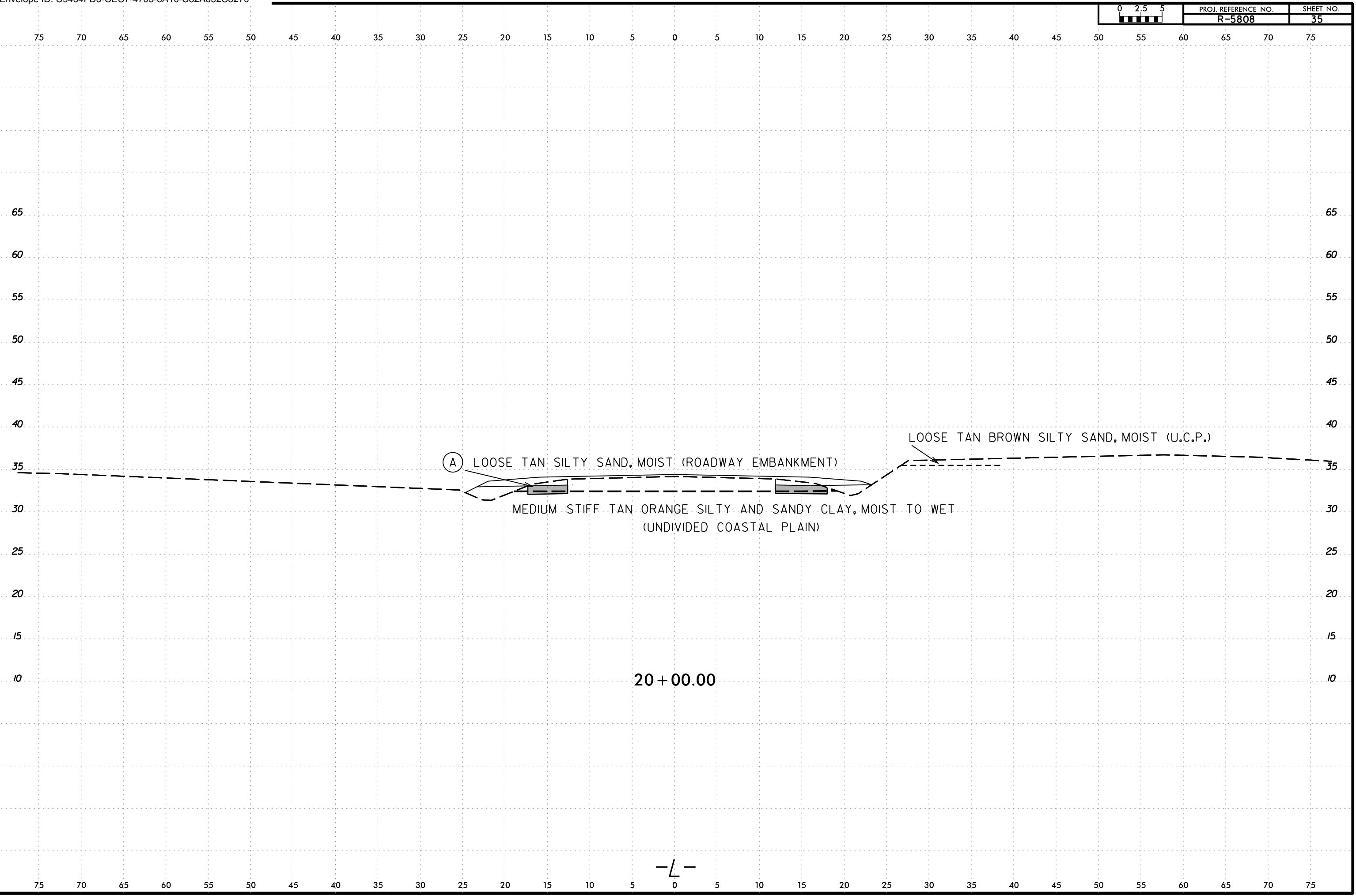
LOOSE TAN BROWN SILTY SAND, MOIST (U.C.P.)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

19 + 50.00



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808\_Geo\_XSR.dgn  
jstone

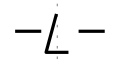


(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

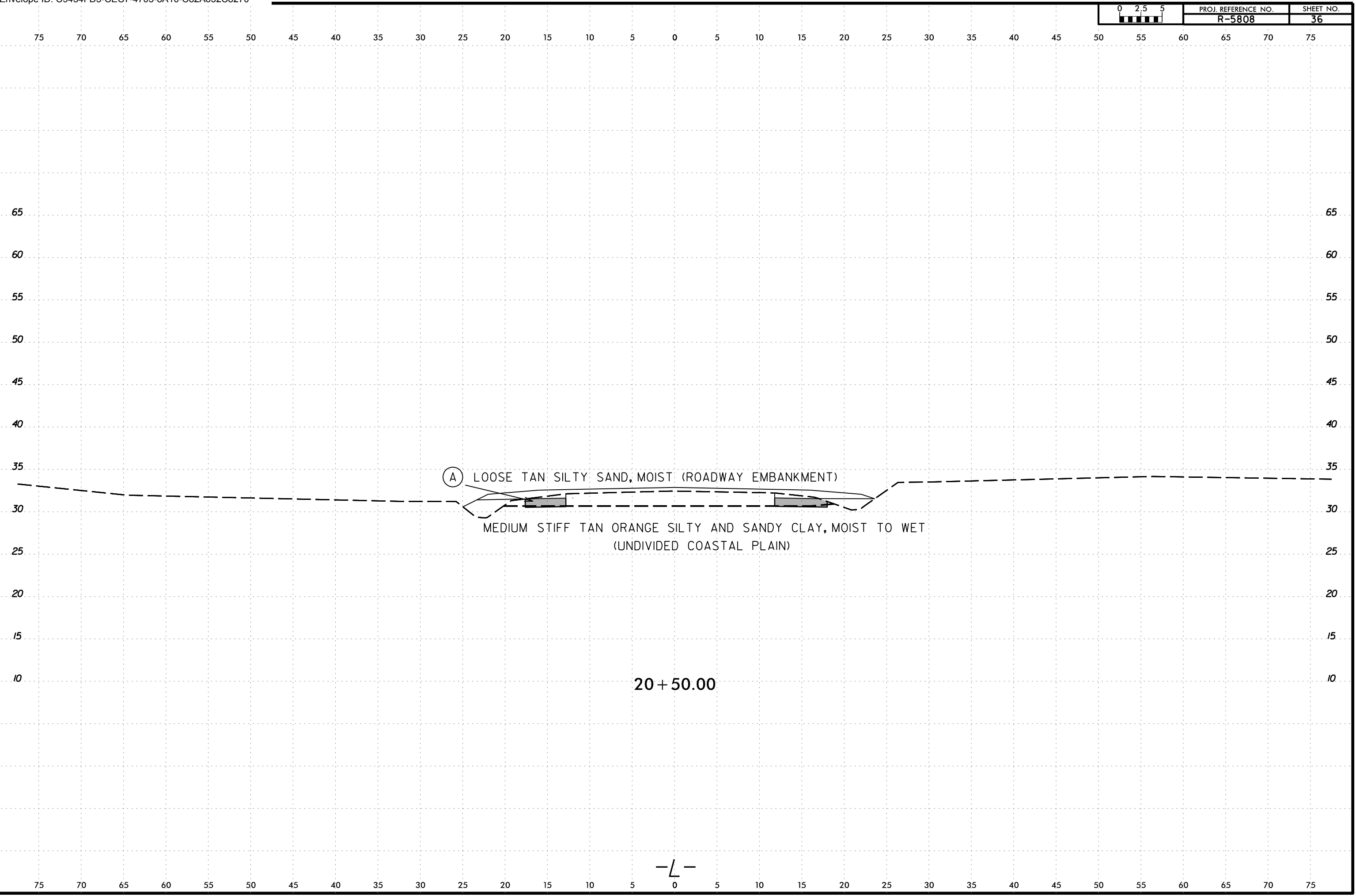
MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

LOOSE TAN BROWN SILTY SAND, MOIST (U.C.P.)

20 + 00.00



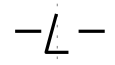
6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



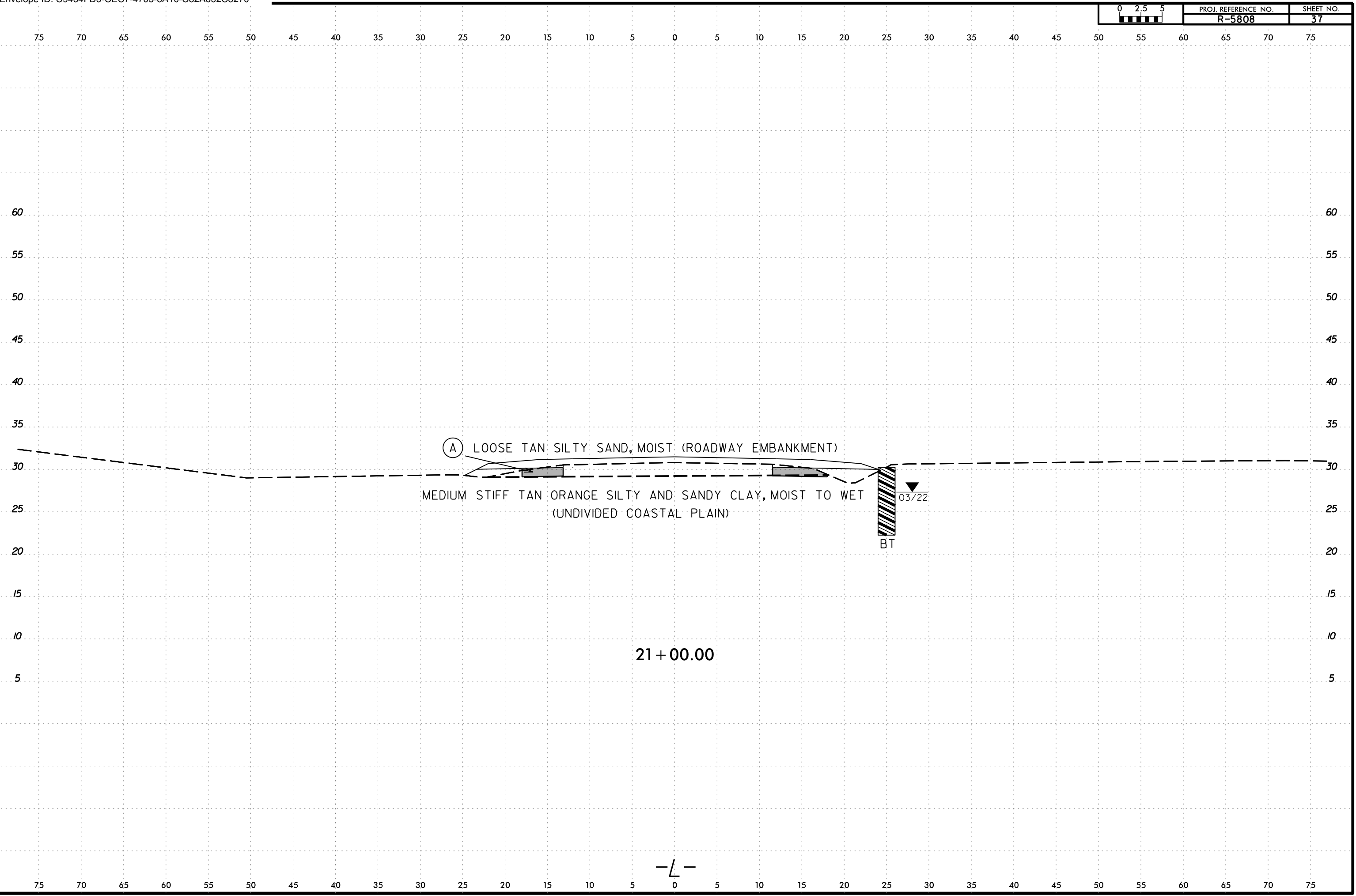
(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

20 + 50.00



6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

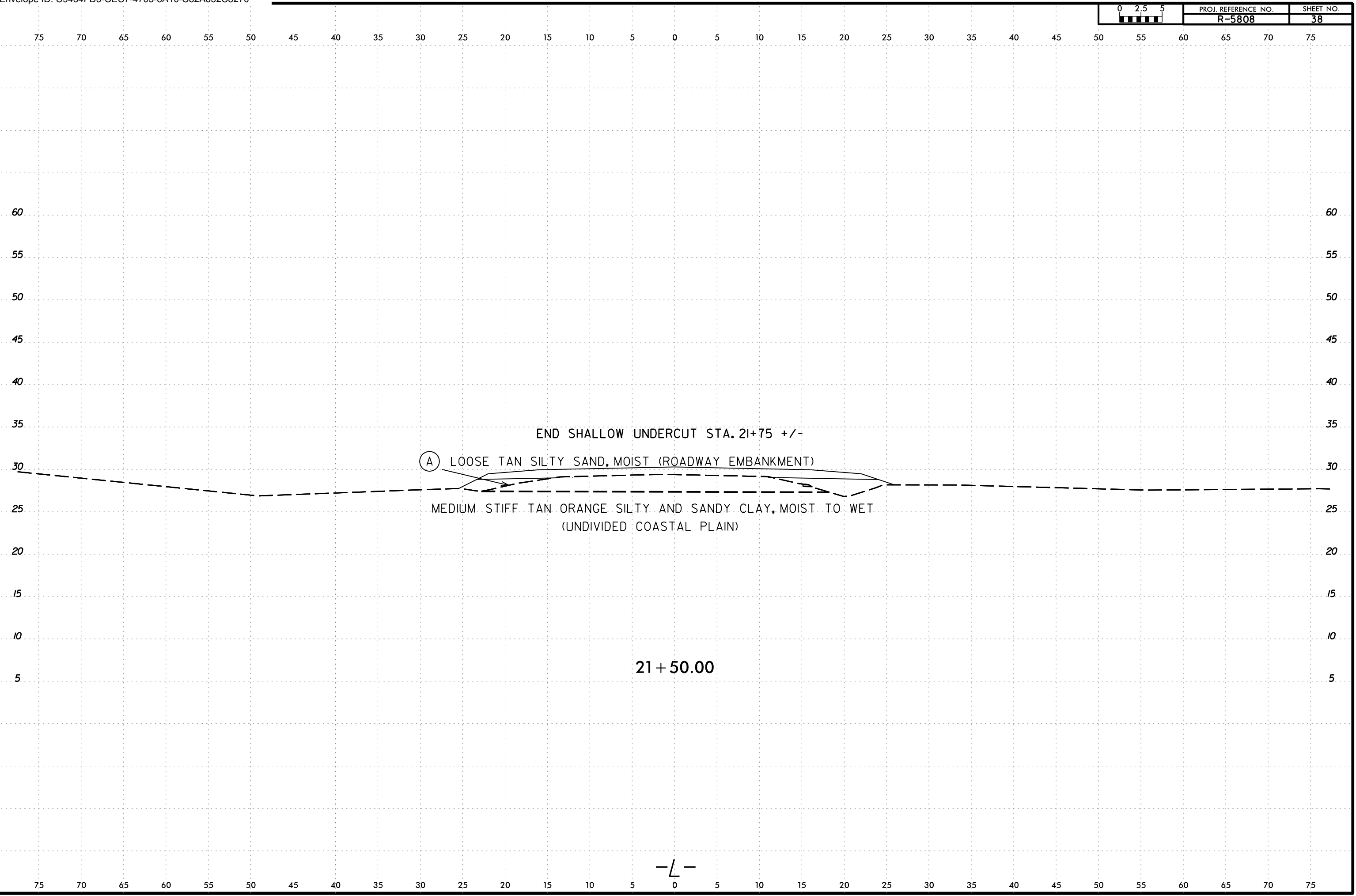
BT

03/22

21 + 00.00

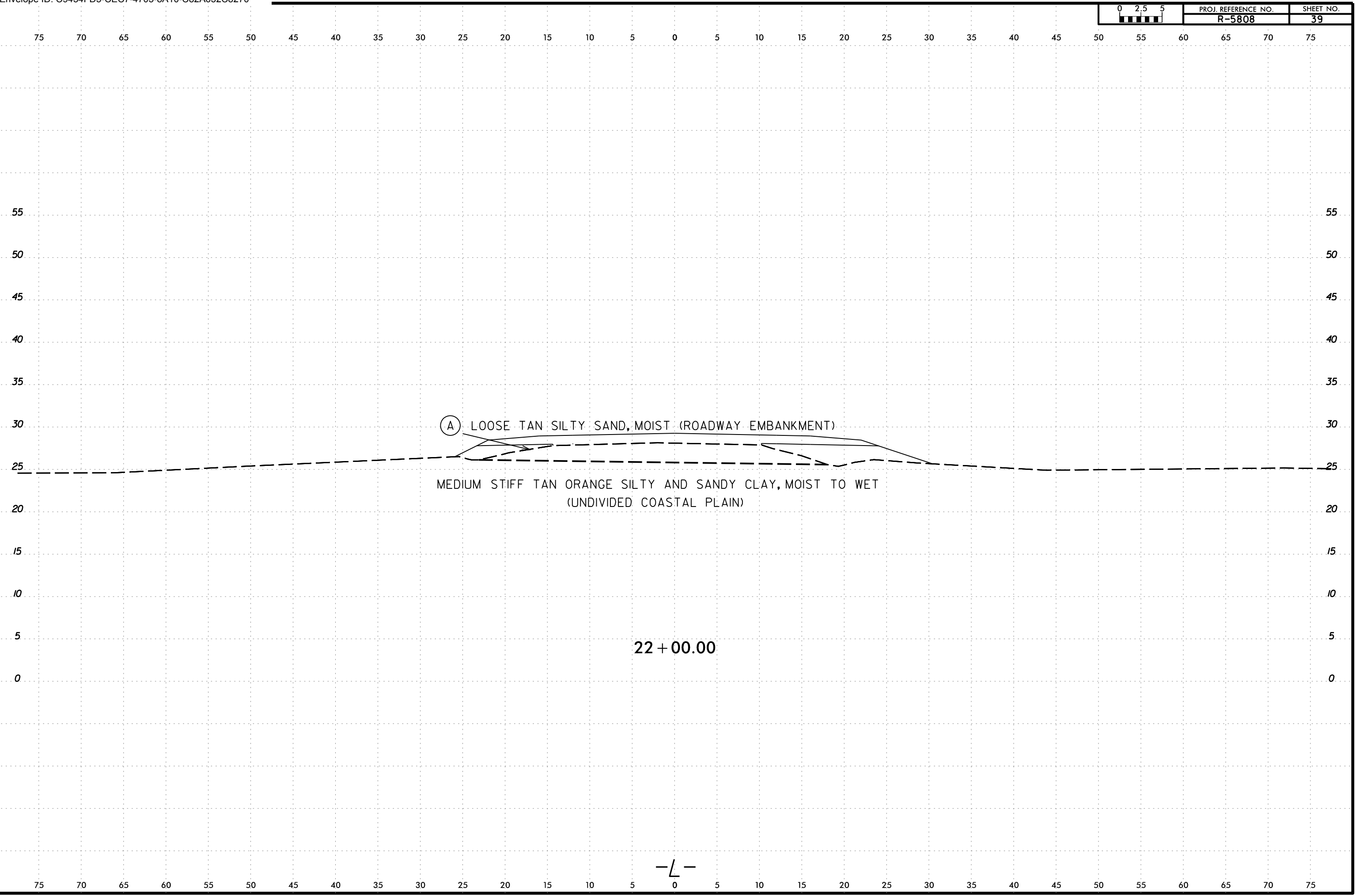
—L—

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
STONE  
AT CAT-1 STONE-18



-L-

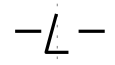
6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
ISTONE



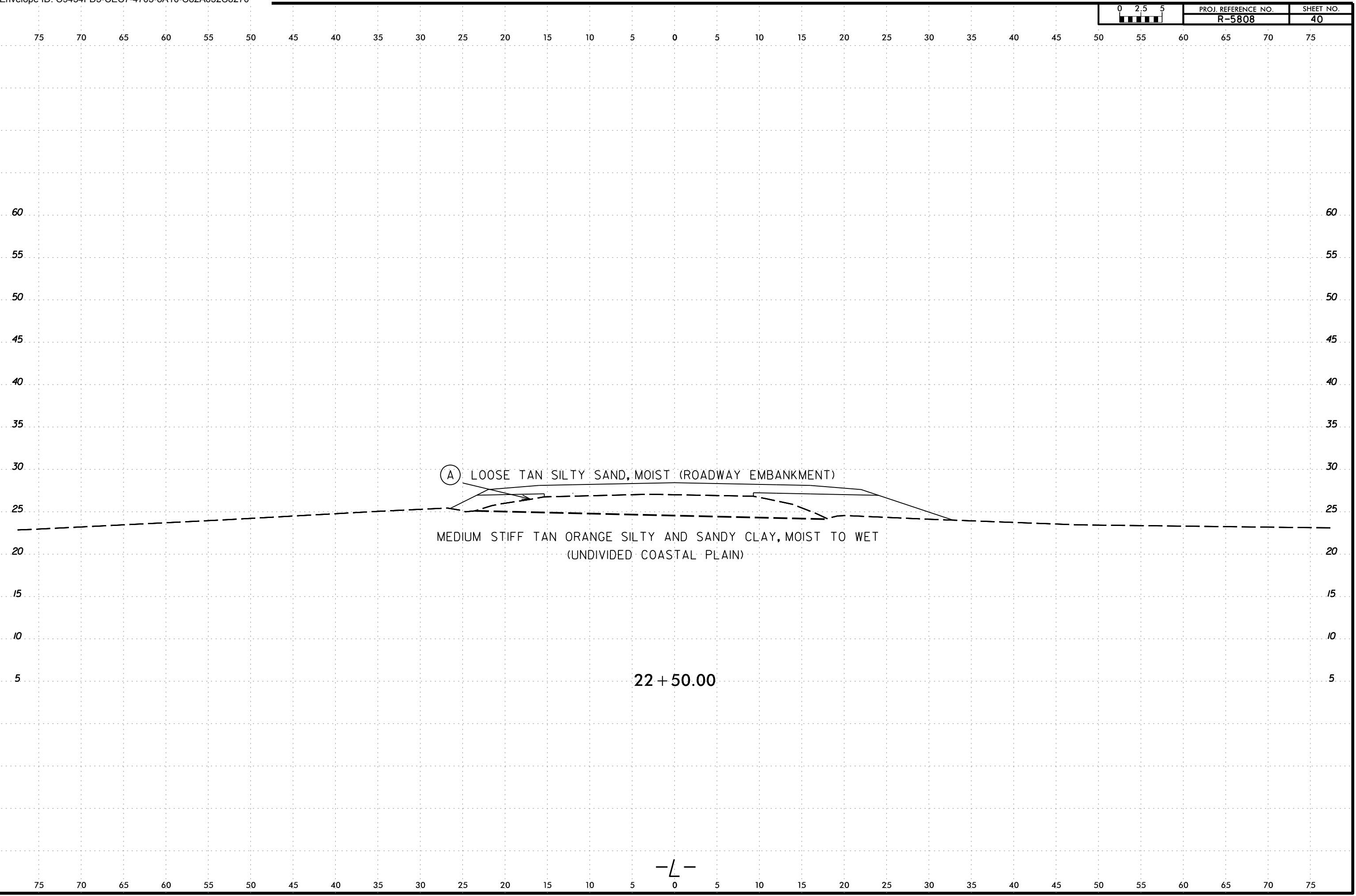
(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

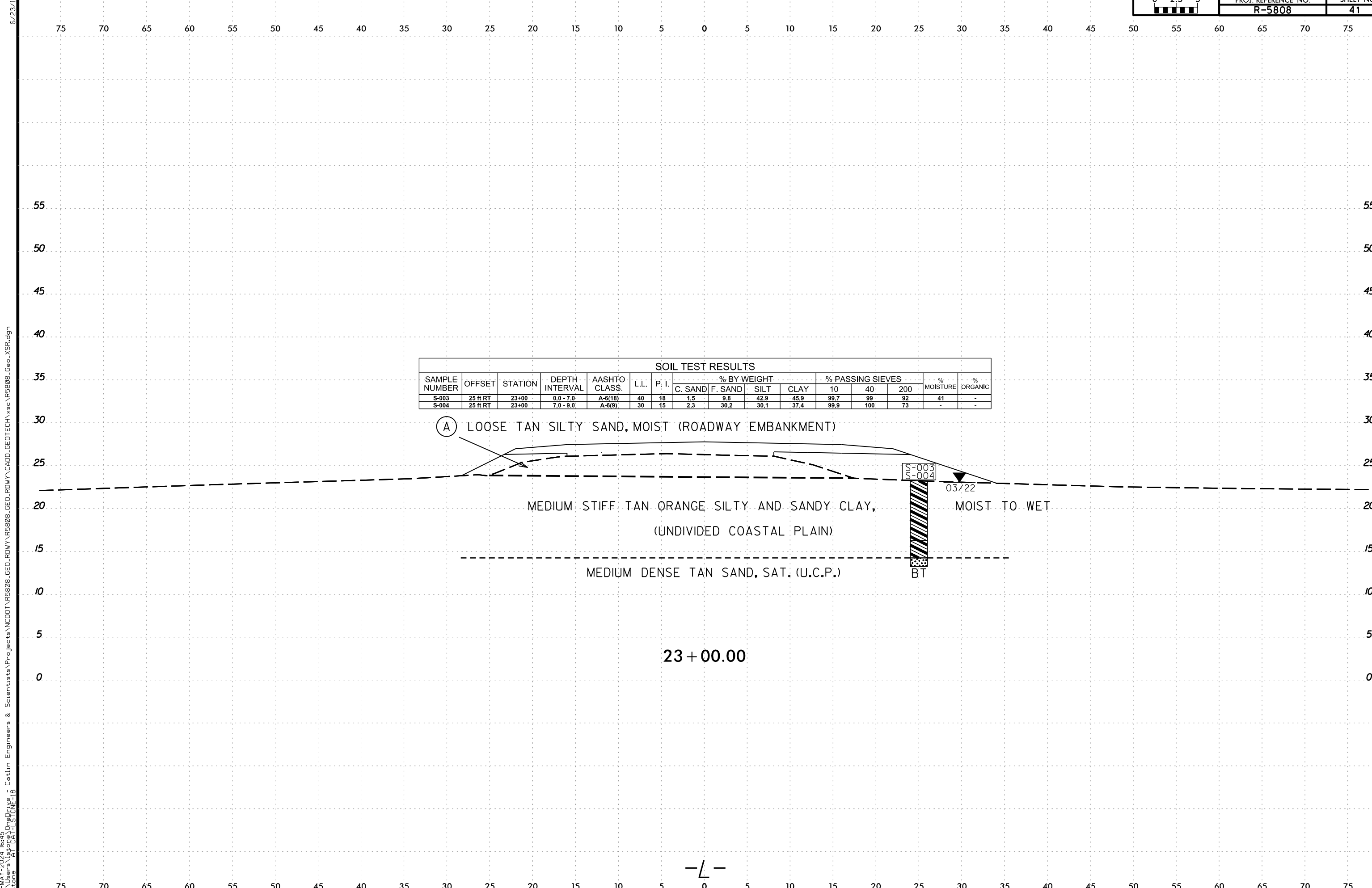
22 + 00.00



6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
jstone





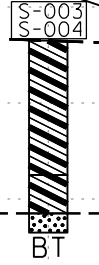


SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							S-003	25 ft RT	23+00	0.0 - 7.0	A-6(18)	40	18		
S-004	25 ft RT	23+00	7.0 - 9.0	A-6(9)	30	15	2.3	30.2	30.1	37.4	99.9	100	73	-	-

(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY,  
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

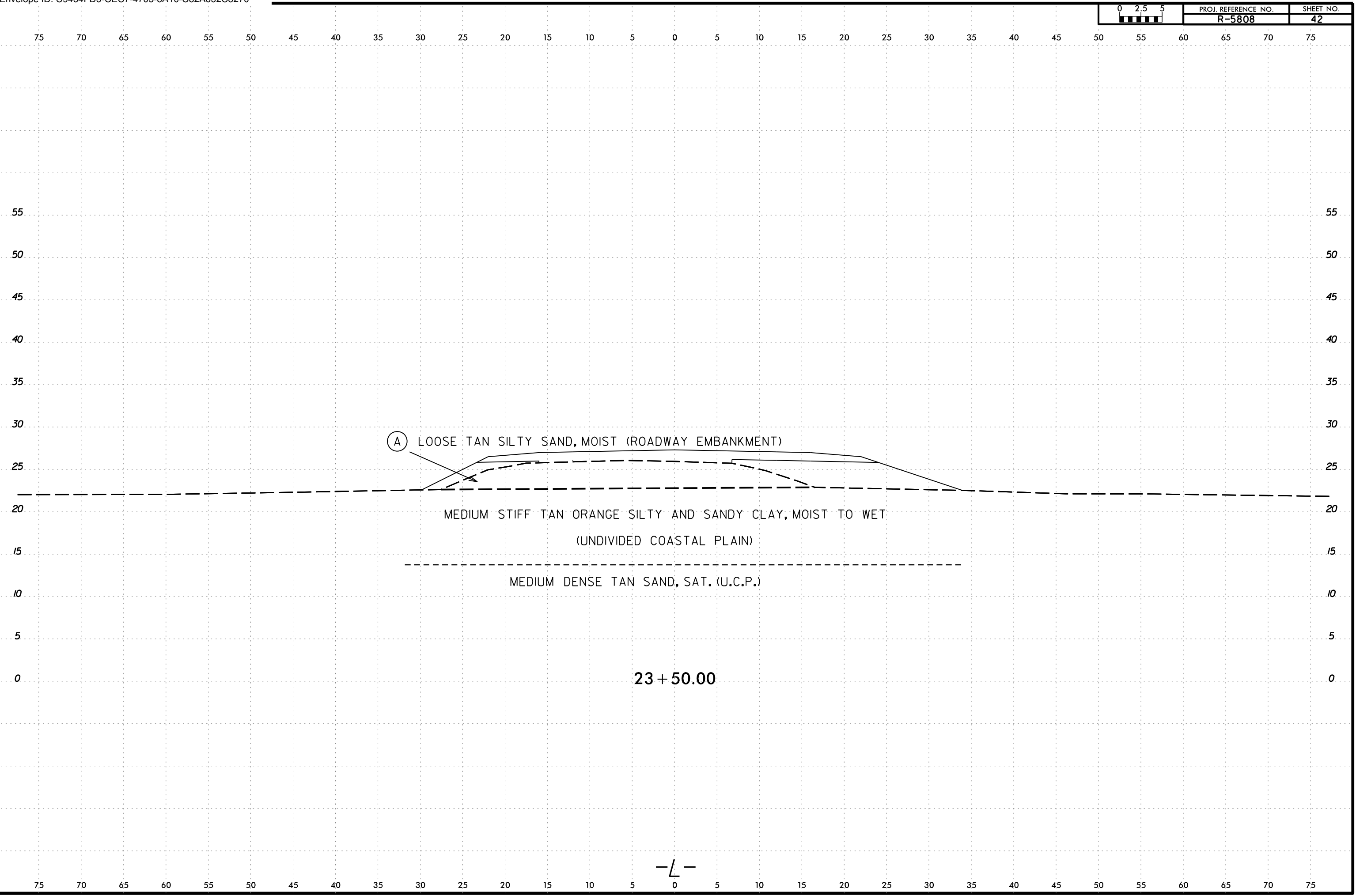


23 + 00.00

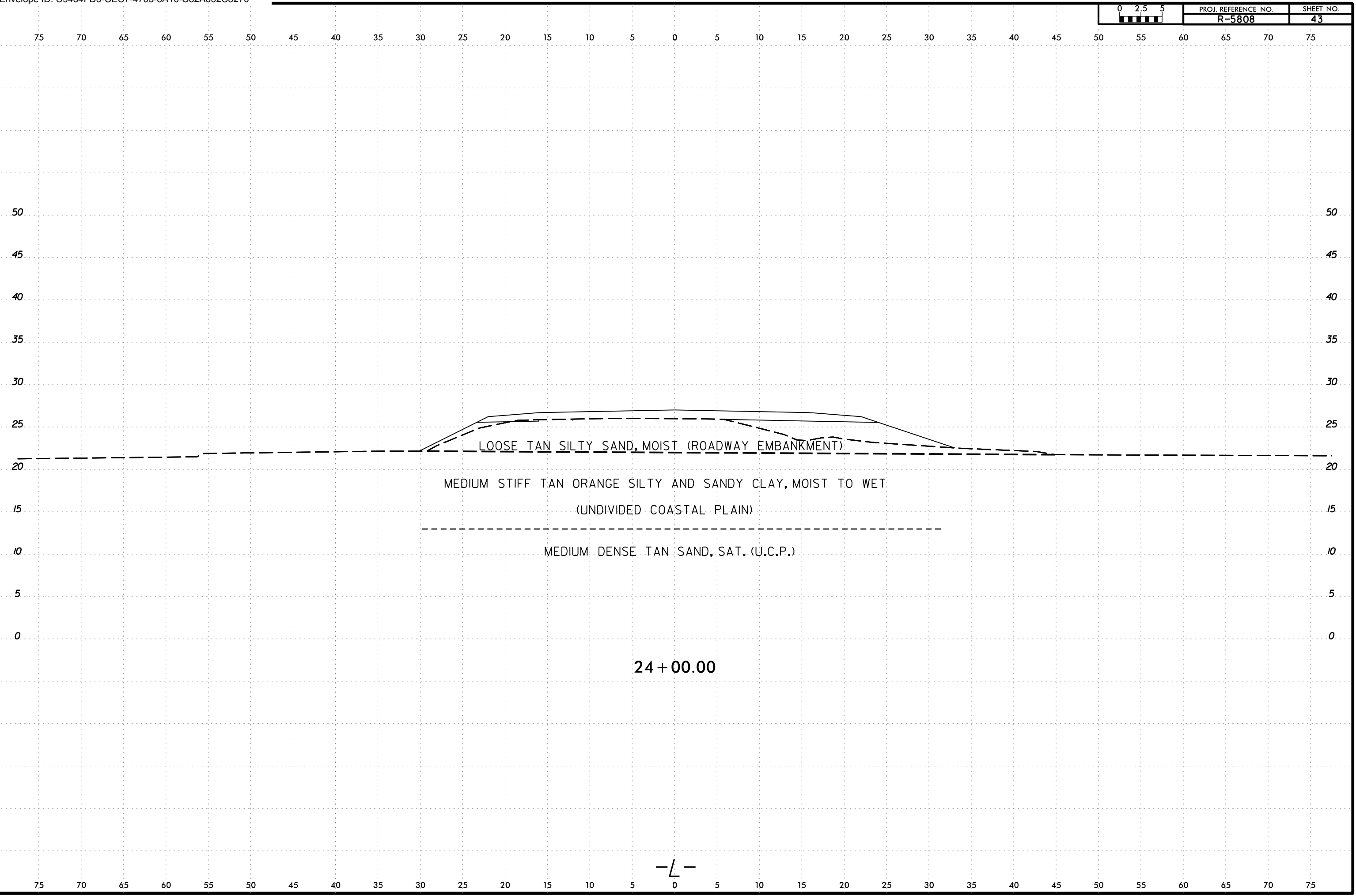
-L-

21-MAY-2024 16:45  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808\_GEO\_XSR.dgn  
 jstone

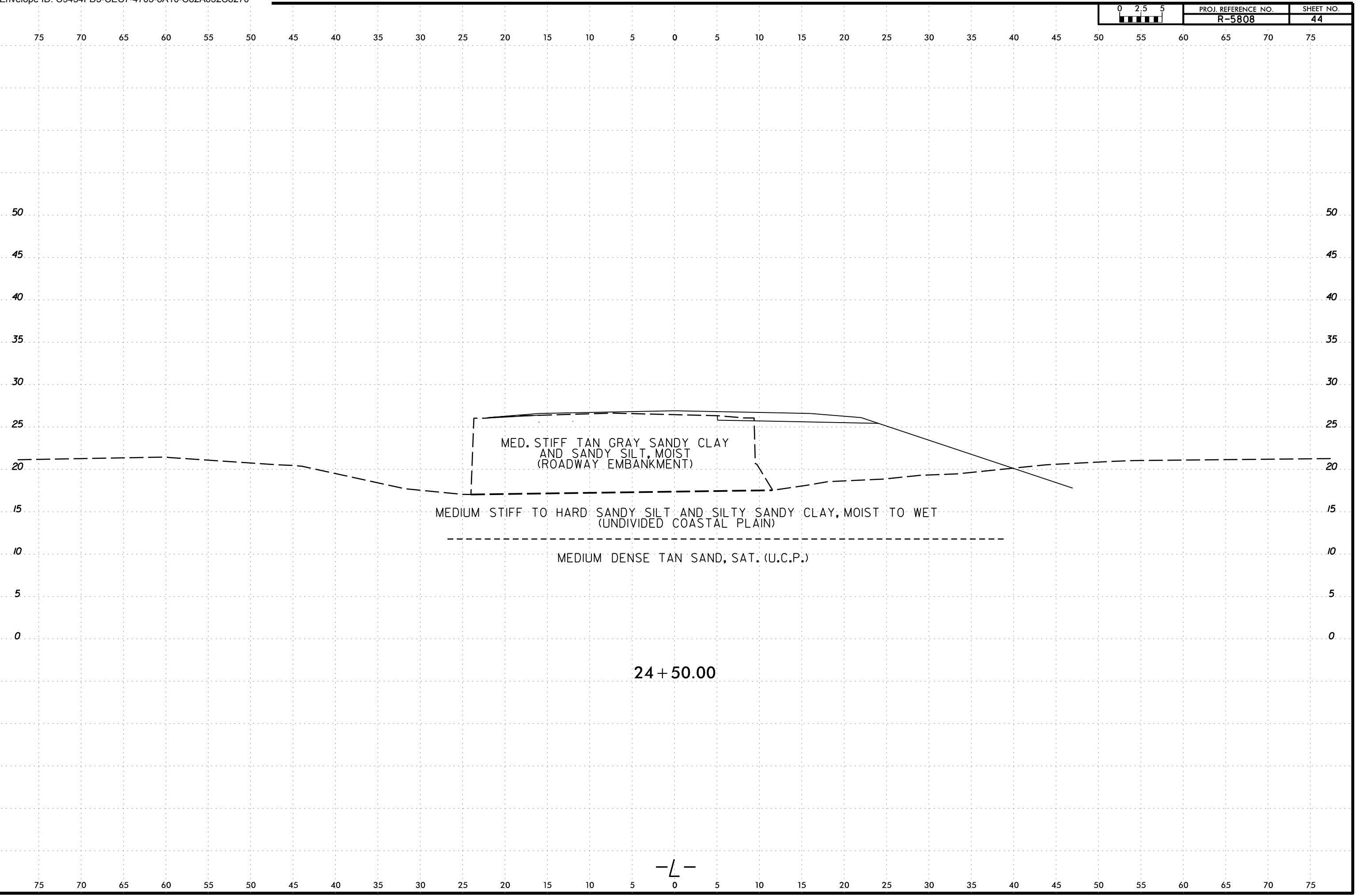
6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone

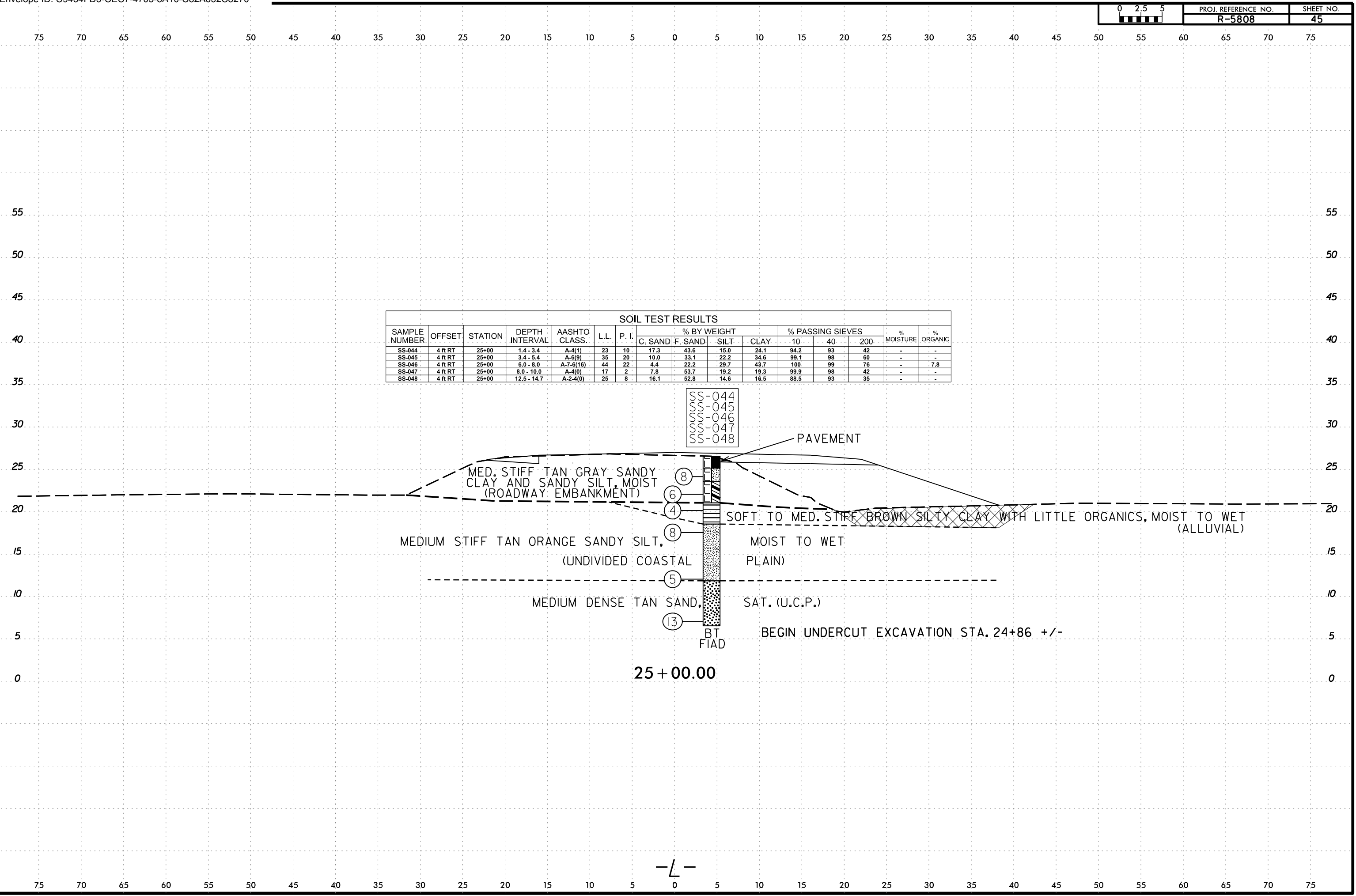


6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



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-044	4 ft RT	25+00	1.4 - 3.4	A-4(1)	23	10		
SS-045	4 ft RT	25+00	3.4 - 5.4	A-6(9)	35	20	10.0	33.1	22.2	34.6	99.1	98	60	-	-
SS-046	4 ft RT	25+00	6.0 - 8.0	A-7-6(16)	44	22	4.4	22.2	29.7	43.7	100	99	76	-	7.8
SS-047	4 ft RT	25+00	8.0 - 10.0	A-4(0)	17	2	7.8	53.7	19.2	19.3	99.9	98	42	-	-
SS-048	4 ft RT	25+00	12.5 - 14.7	A-2-4(0)	25	8	16.1	52.8	14.6	16.5	88.5	93	35	-	-

21-MAY-2024 16:45  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\VR5808\_GEO\_XSR.dgn  
 jstone



- SS-044
- SS-045
- SS-046
- SS-047
- SS-048

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

SOFT TO MED. STIFF BROWN SILT CLAY WITH LITTLE ORGANICS, MOIST TO WET (ALLUVIAL)

MEDIUM STIFF TAN ORANGE SANDY SILT, (UNDIVIDED COASTAL PLAIN)

MOIST TO WET

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

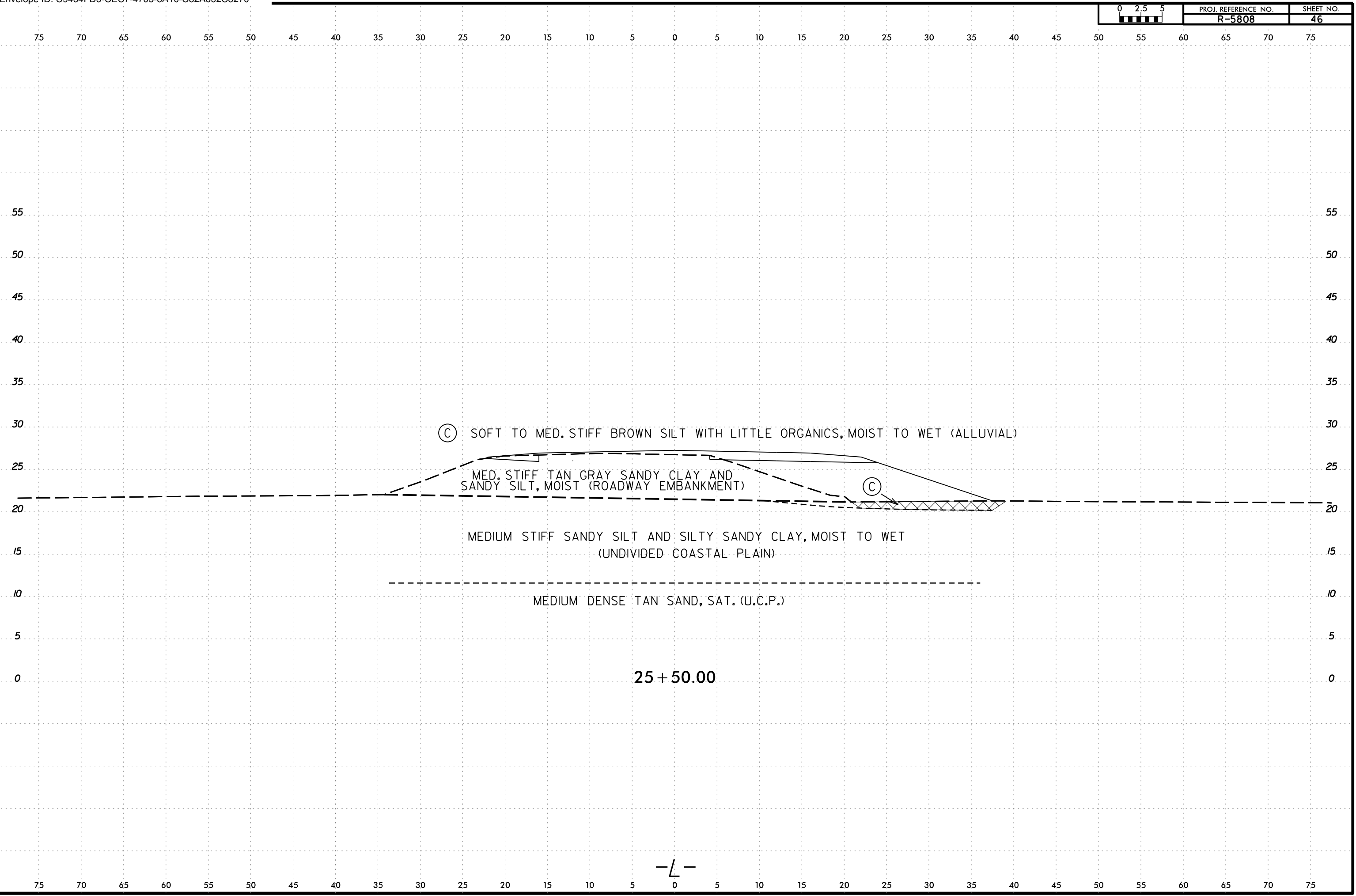
SAT. (U.C.P.)

BEGIN UNDERCUT EXCAVATION STA. 24+86 +/-

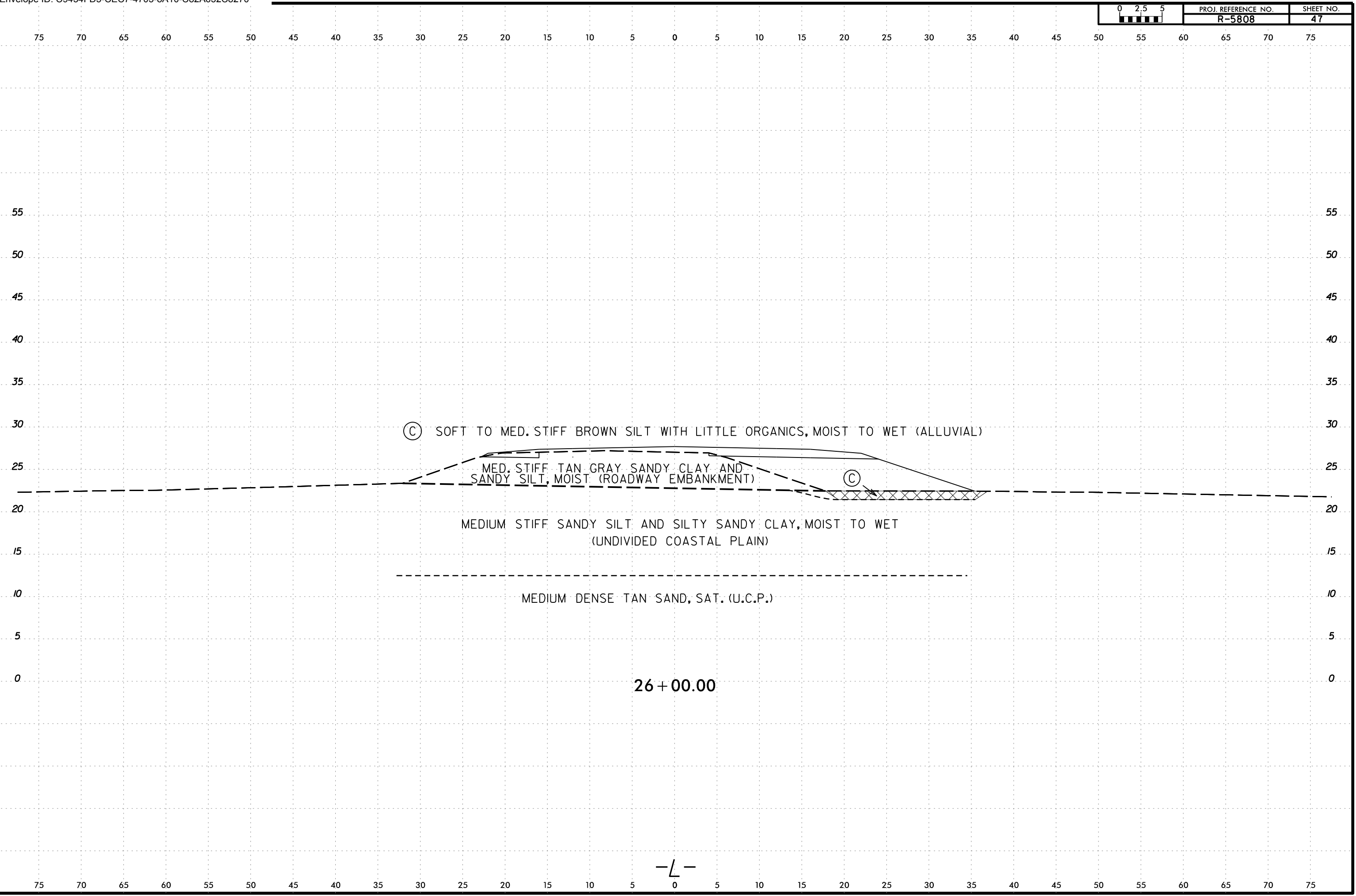
25 + 00.00

-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone

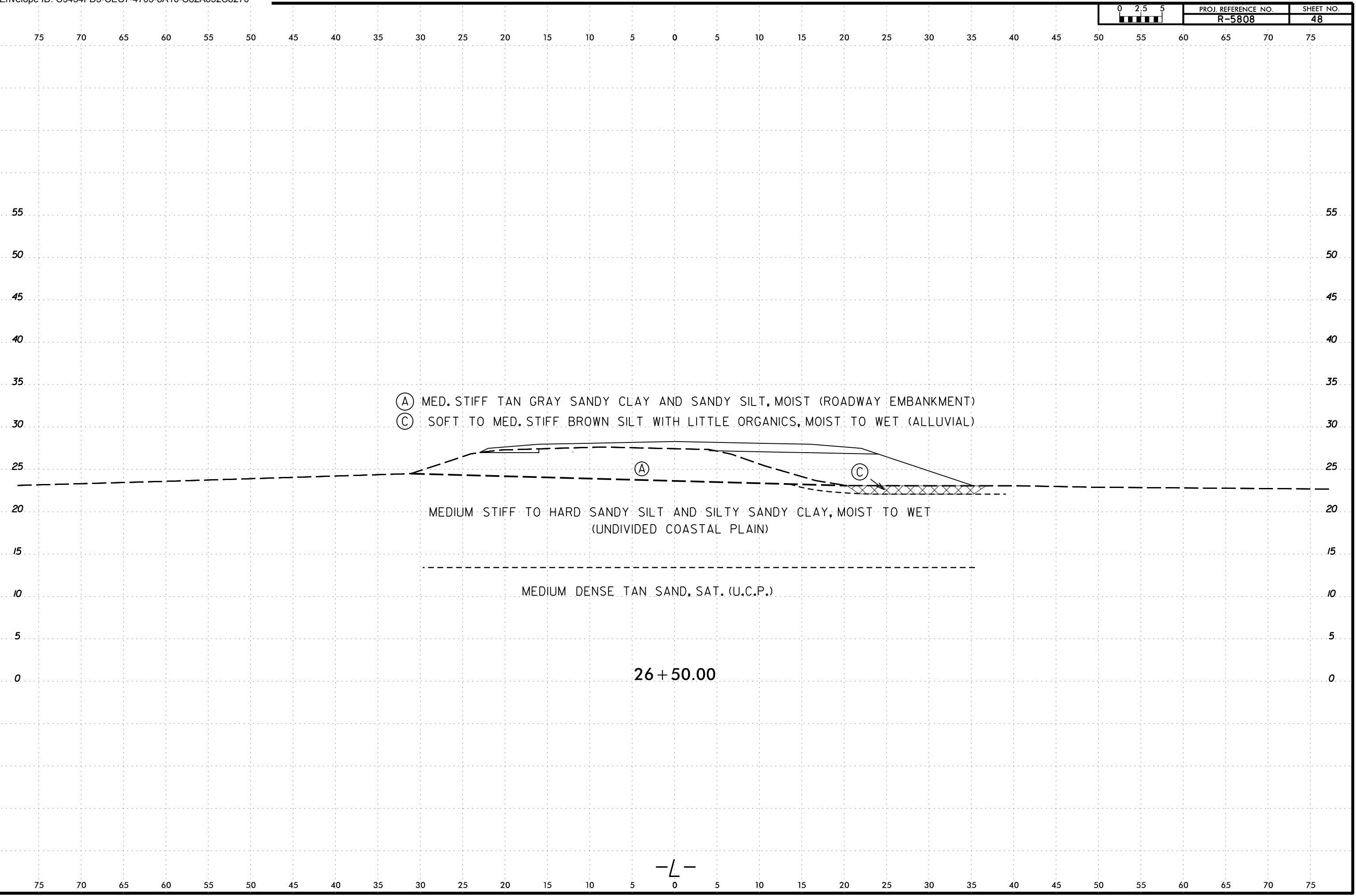


6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



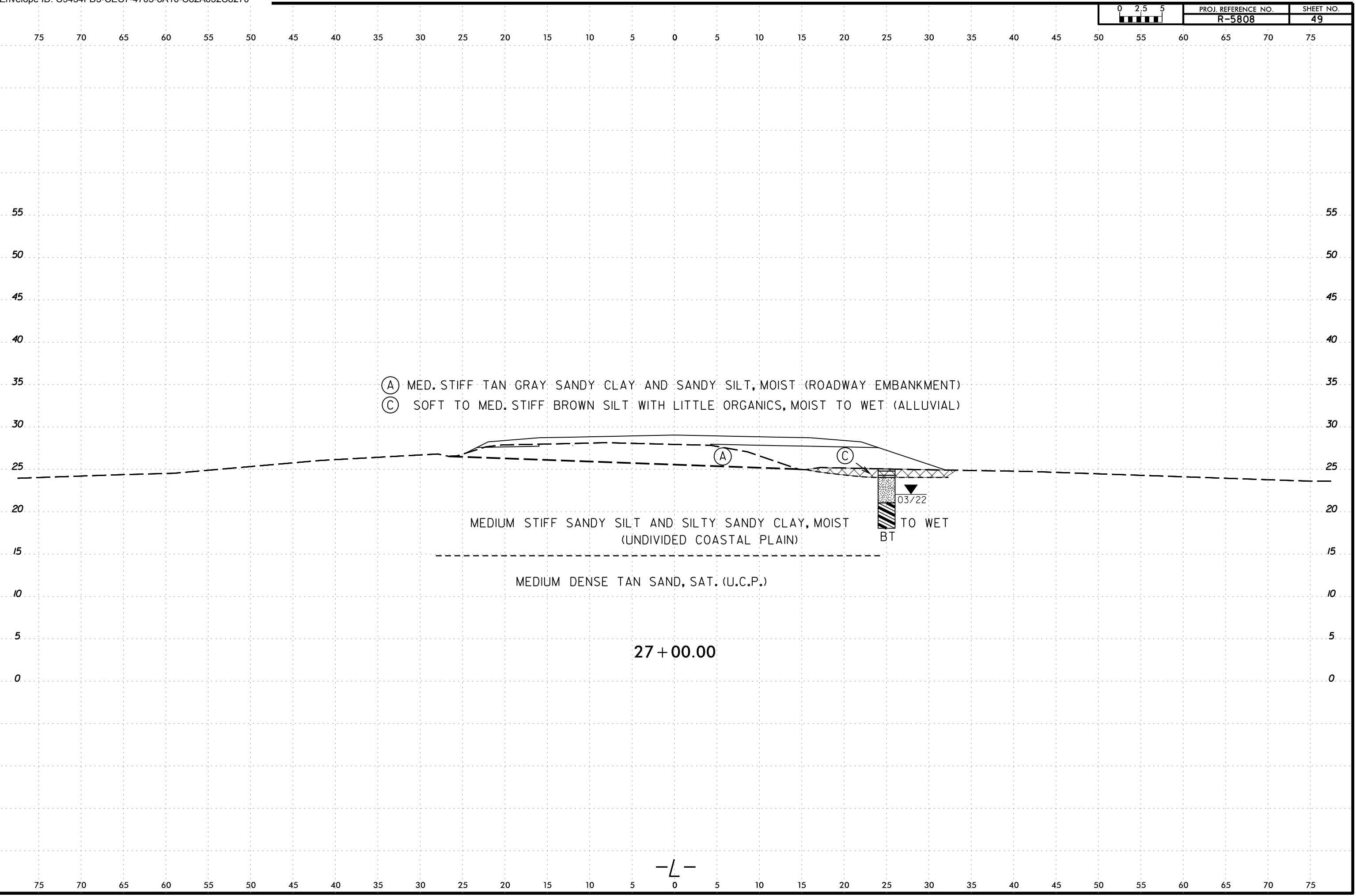
-L-

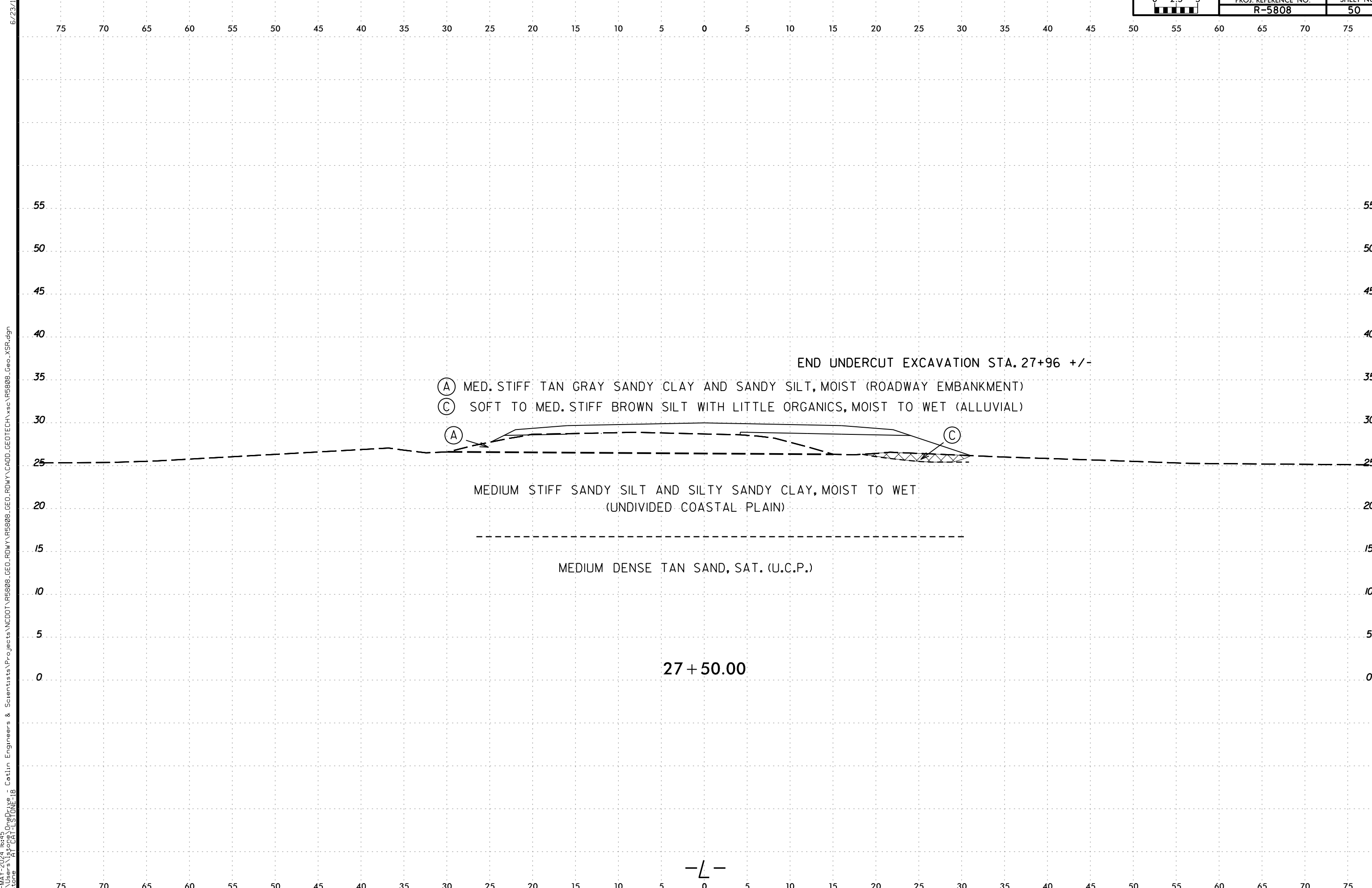
6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone





6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn  
jstone

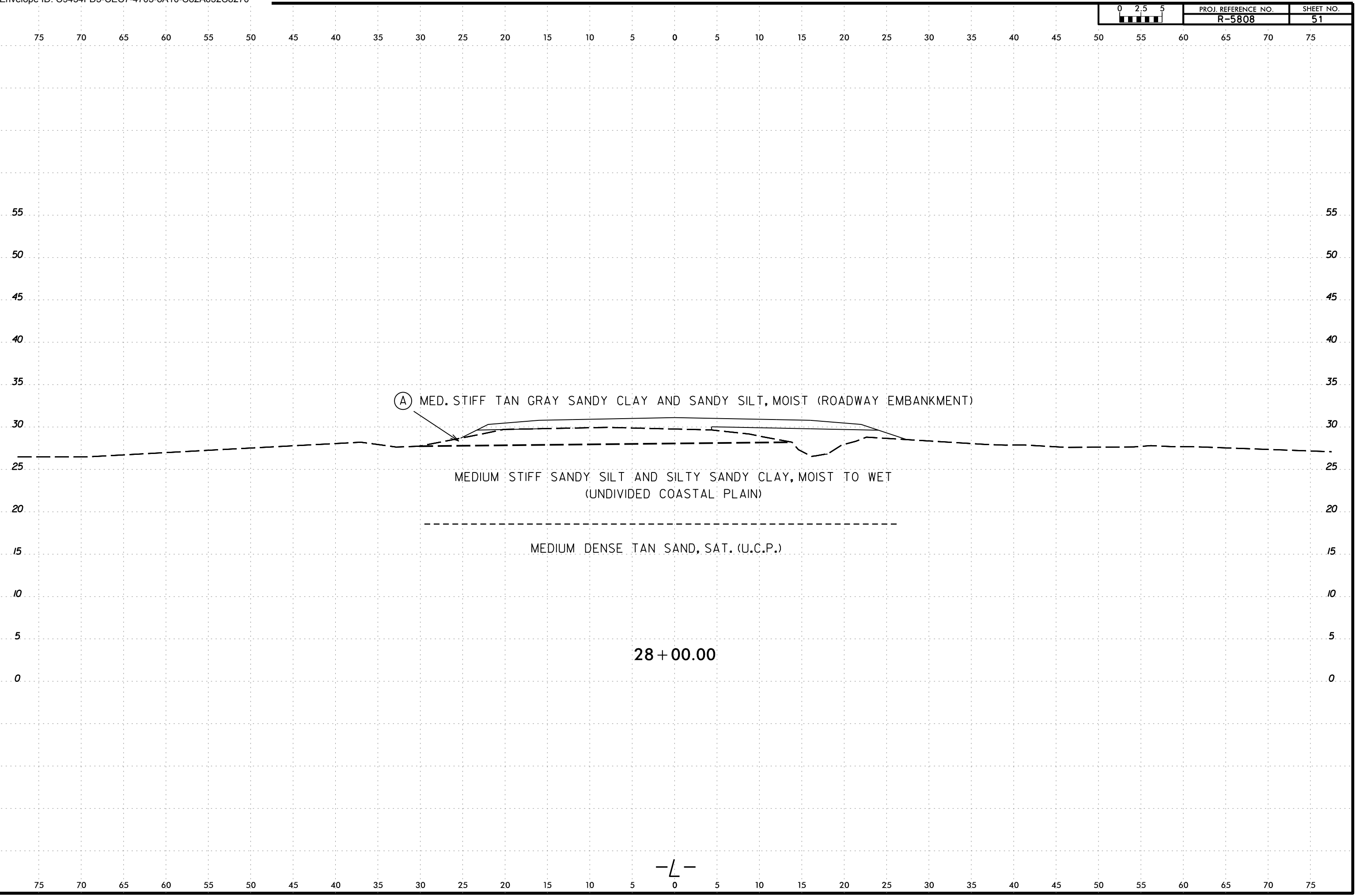




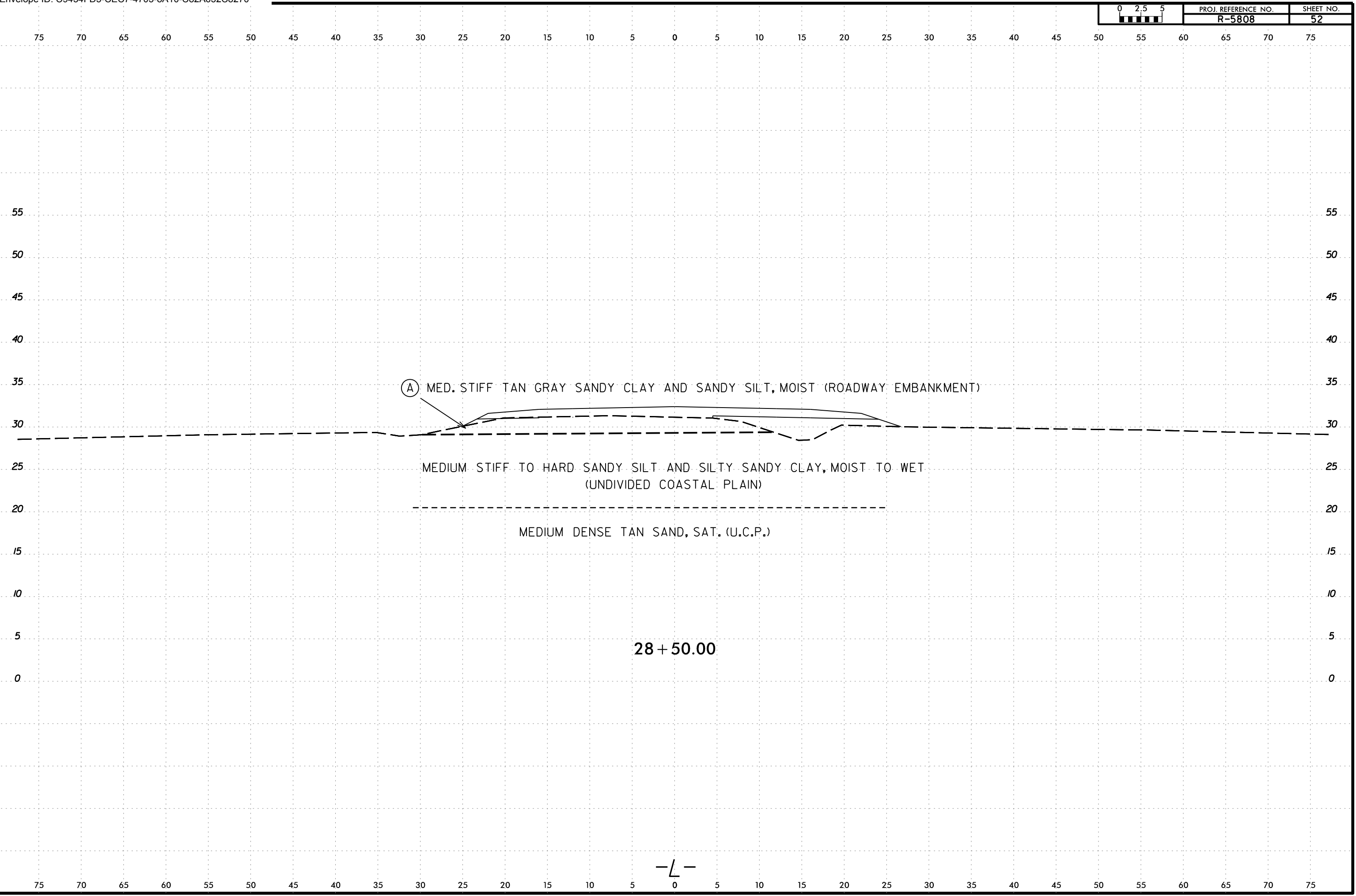
21-MAY-2024 16:45  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDOT\R5808\_GEO\RDWY\RDWY\CADD\GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
 jstone

6/23/16

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
STONE  
AT CAT-1 STONE-18



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\RDWY\RS808\_GEO\_XSR.dgn  
jstone

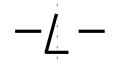


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

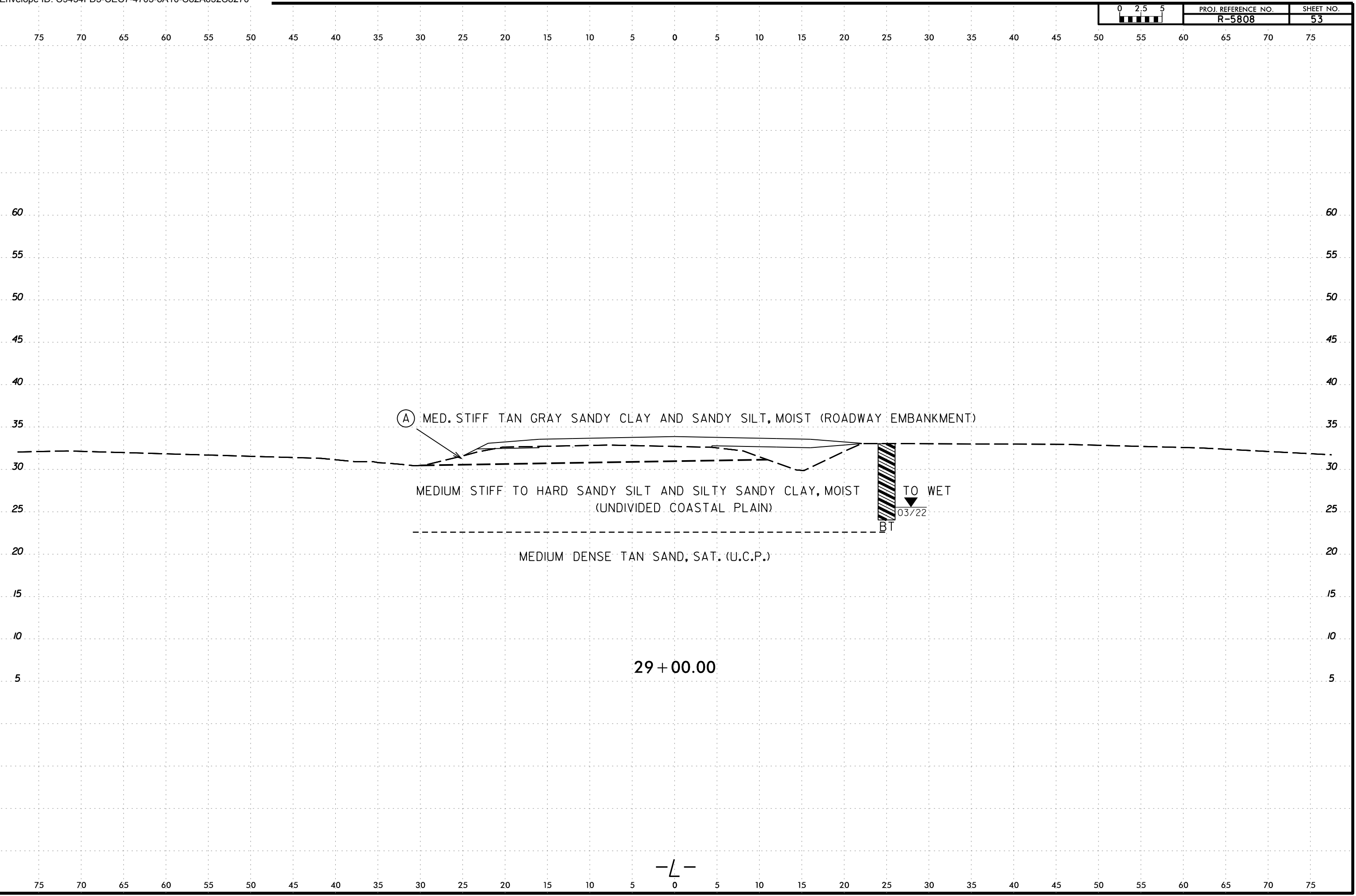
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

28 + 50.00

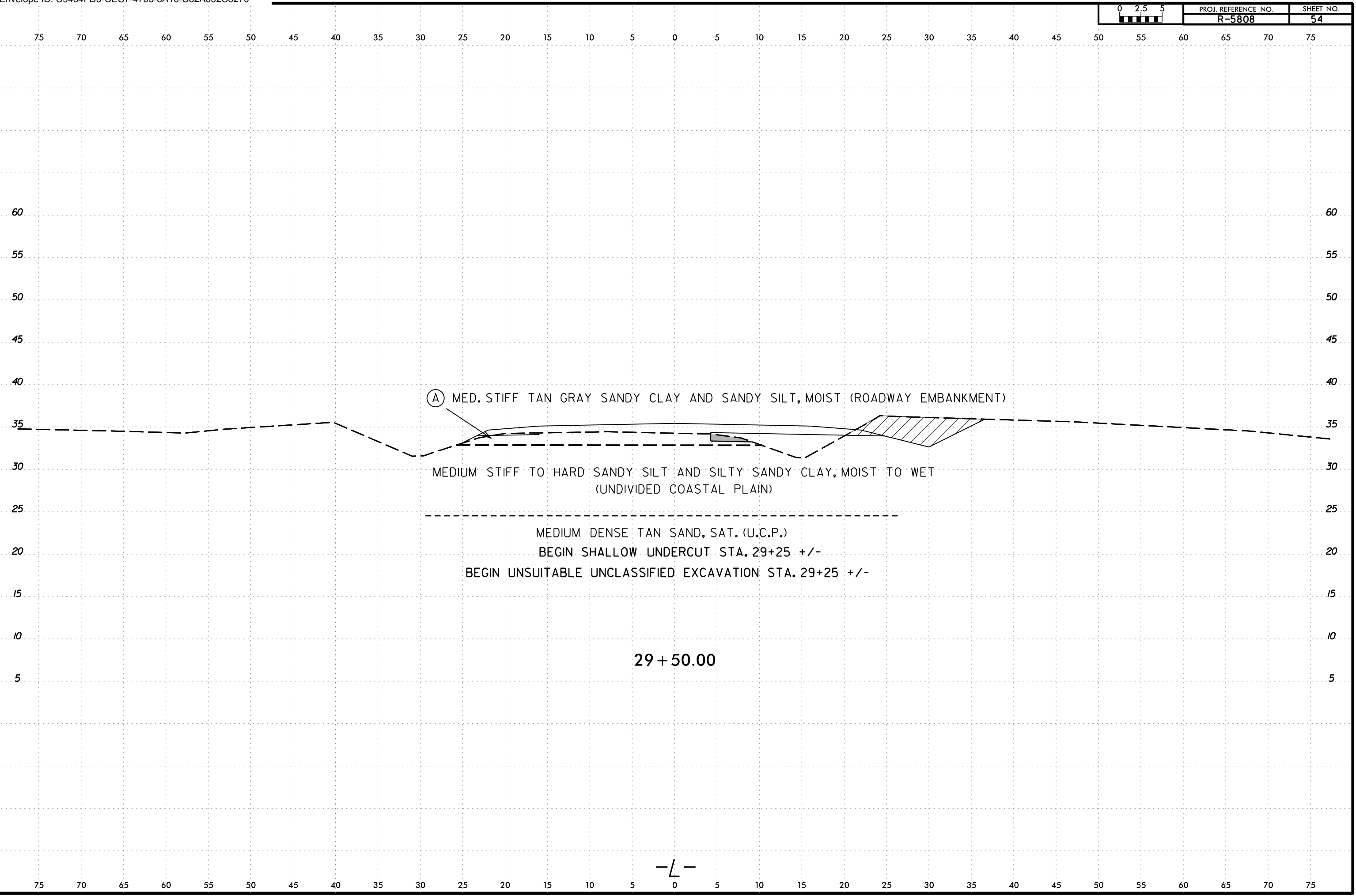


6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

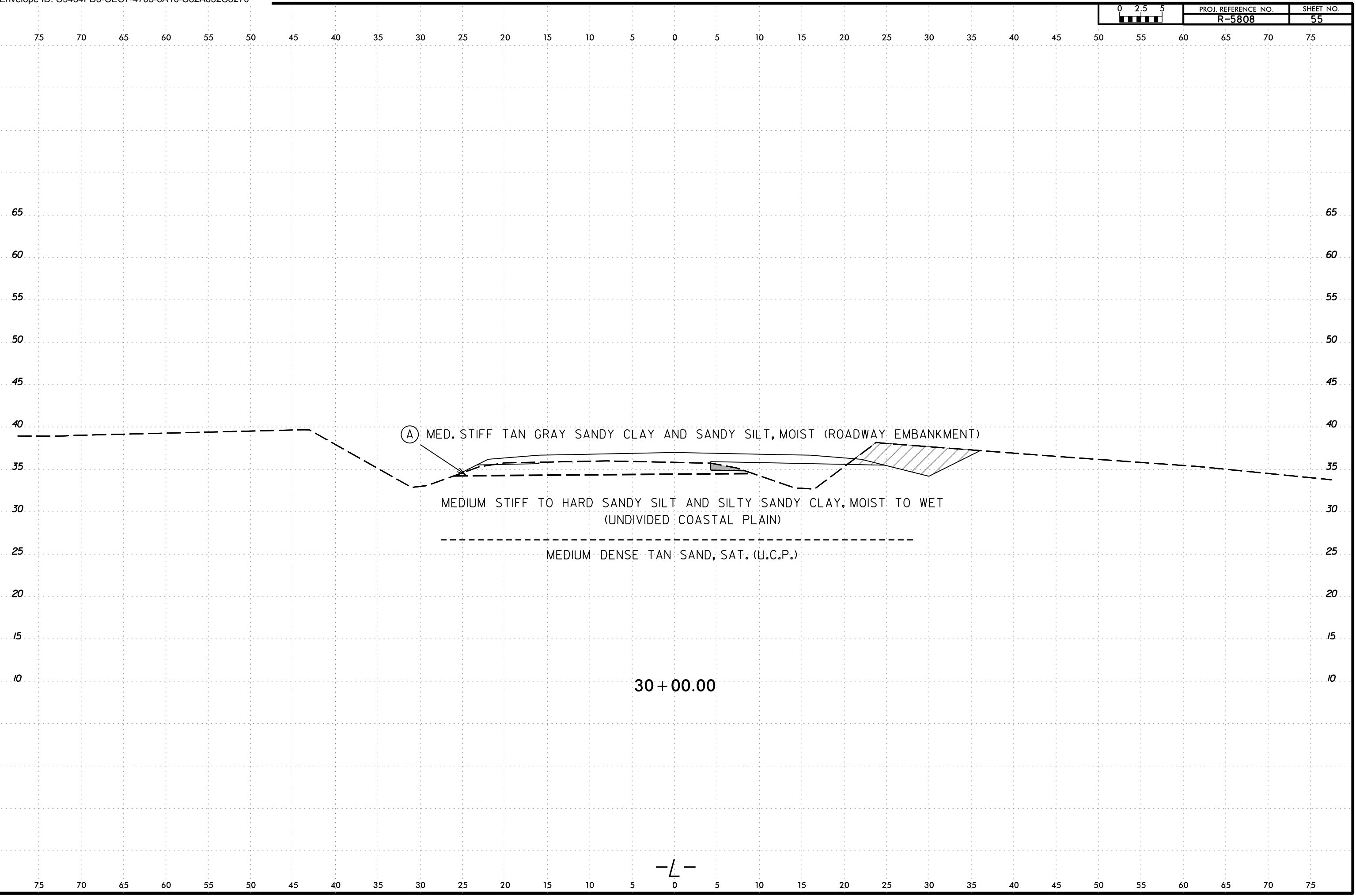


-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\RDWY\CADD\_GEO\XSR.dgn  
jstone

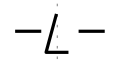


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

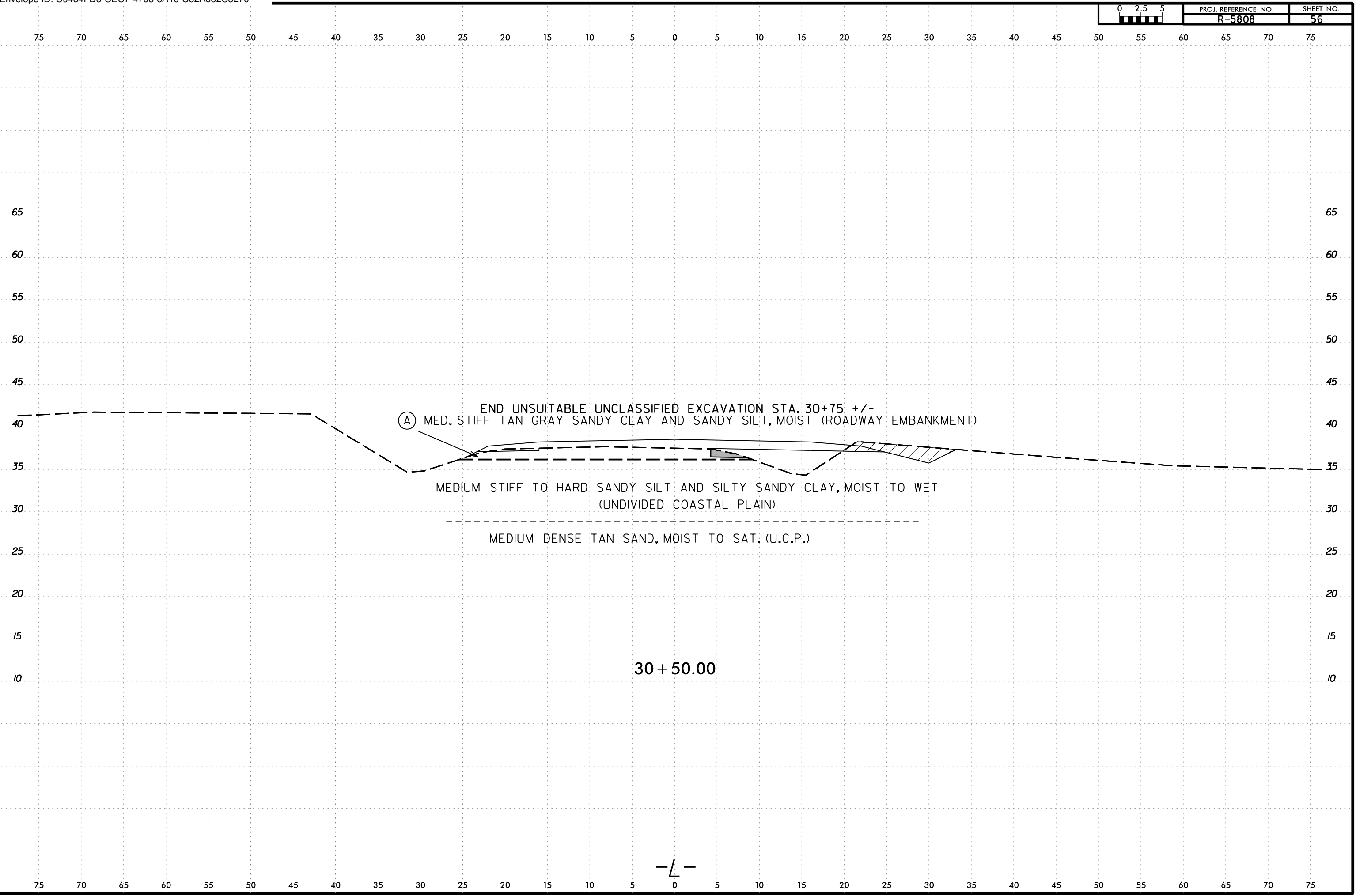
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

30 + 00.00



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
ISTONE

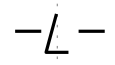


END UNSUITABLE UNCLASSIFIED EXCAVATION STA. 30+75 +/-  
 (A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET  
 (UNDIVIDED COASTAL PLAIN)

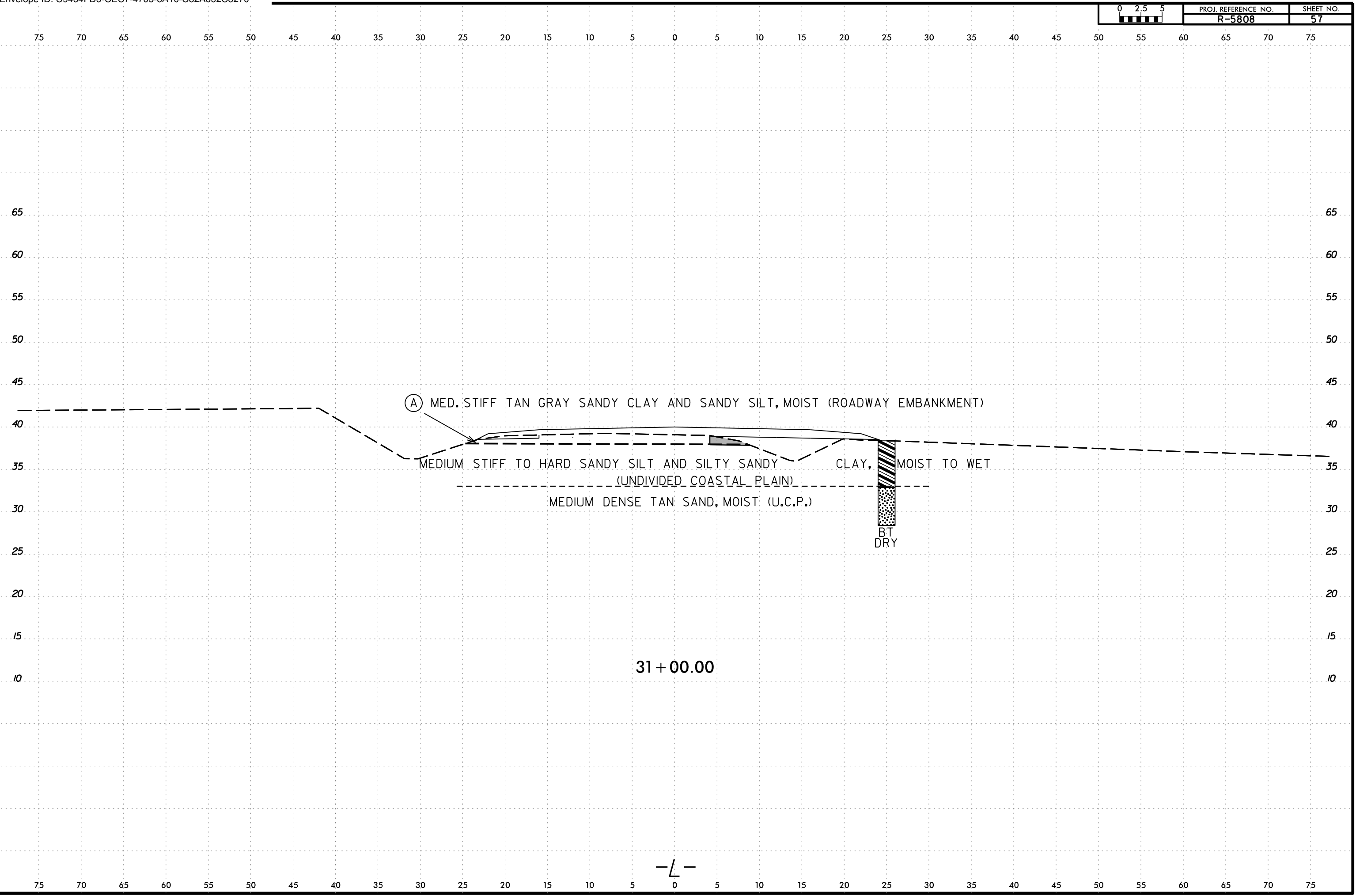
MEDIUM DENSE TAN SAND, MOIST TO SAT. (U.C.P.)

30 + 50.00





6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808\_Geo\_XSR.dgn  
jstone



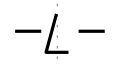
(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

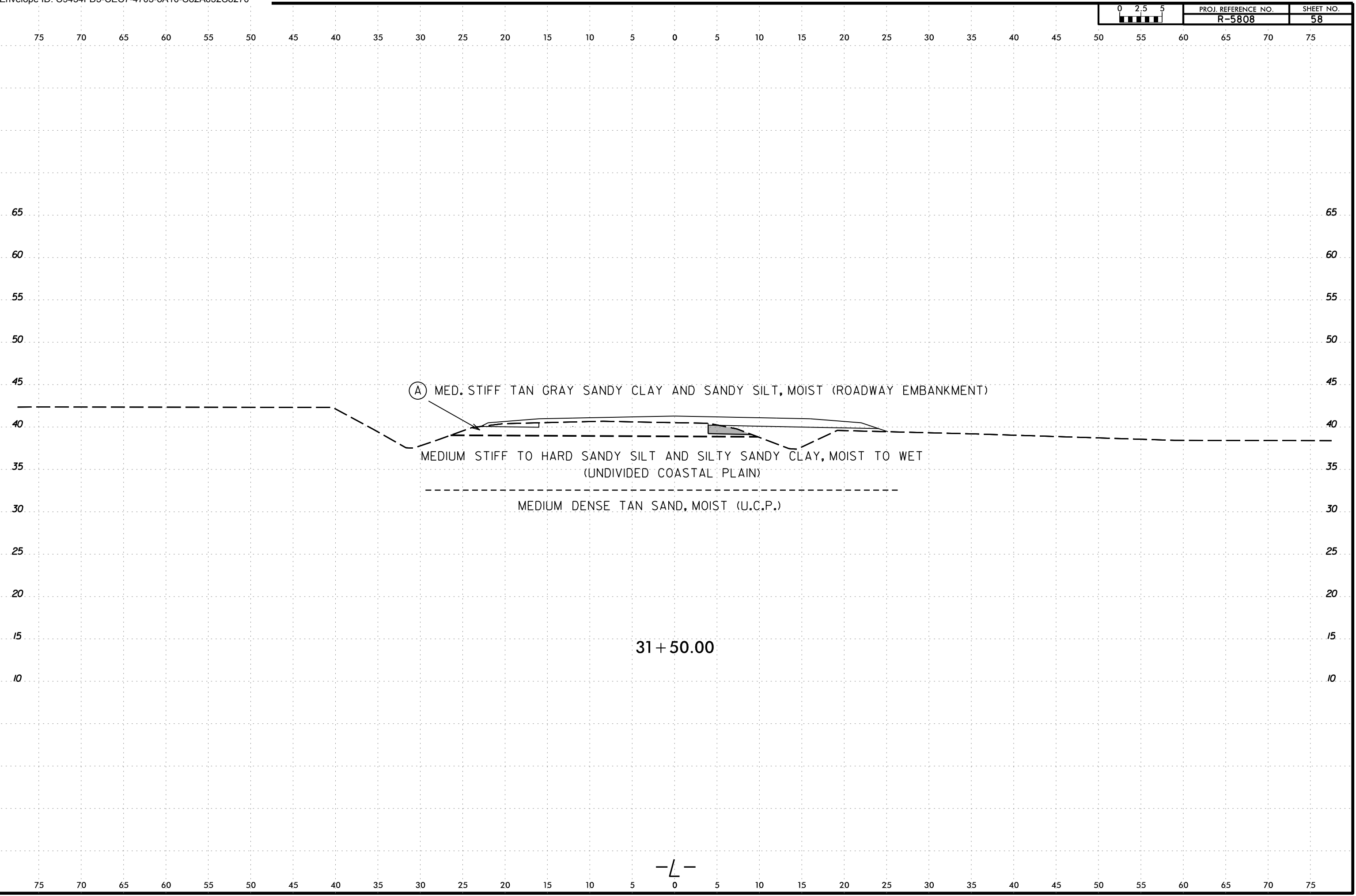
MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

BT  
DRY

31+00.00



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
ISTONE  
AT CAT-1 STONE-18

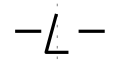


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

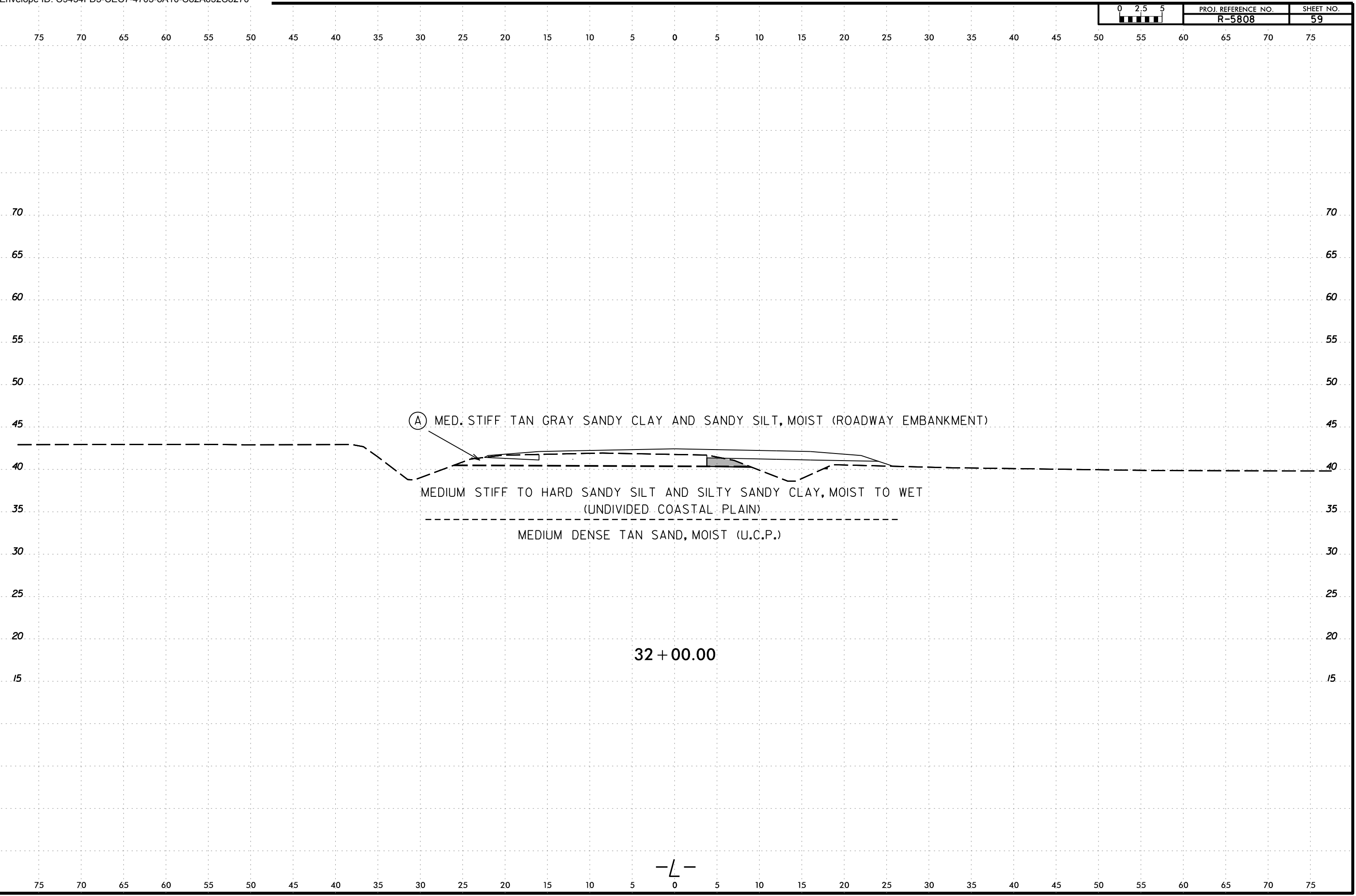
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

31 + 50.00



6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn  
jstone

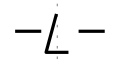


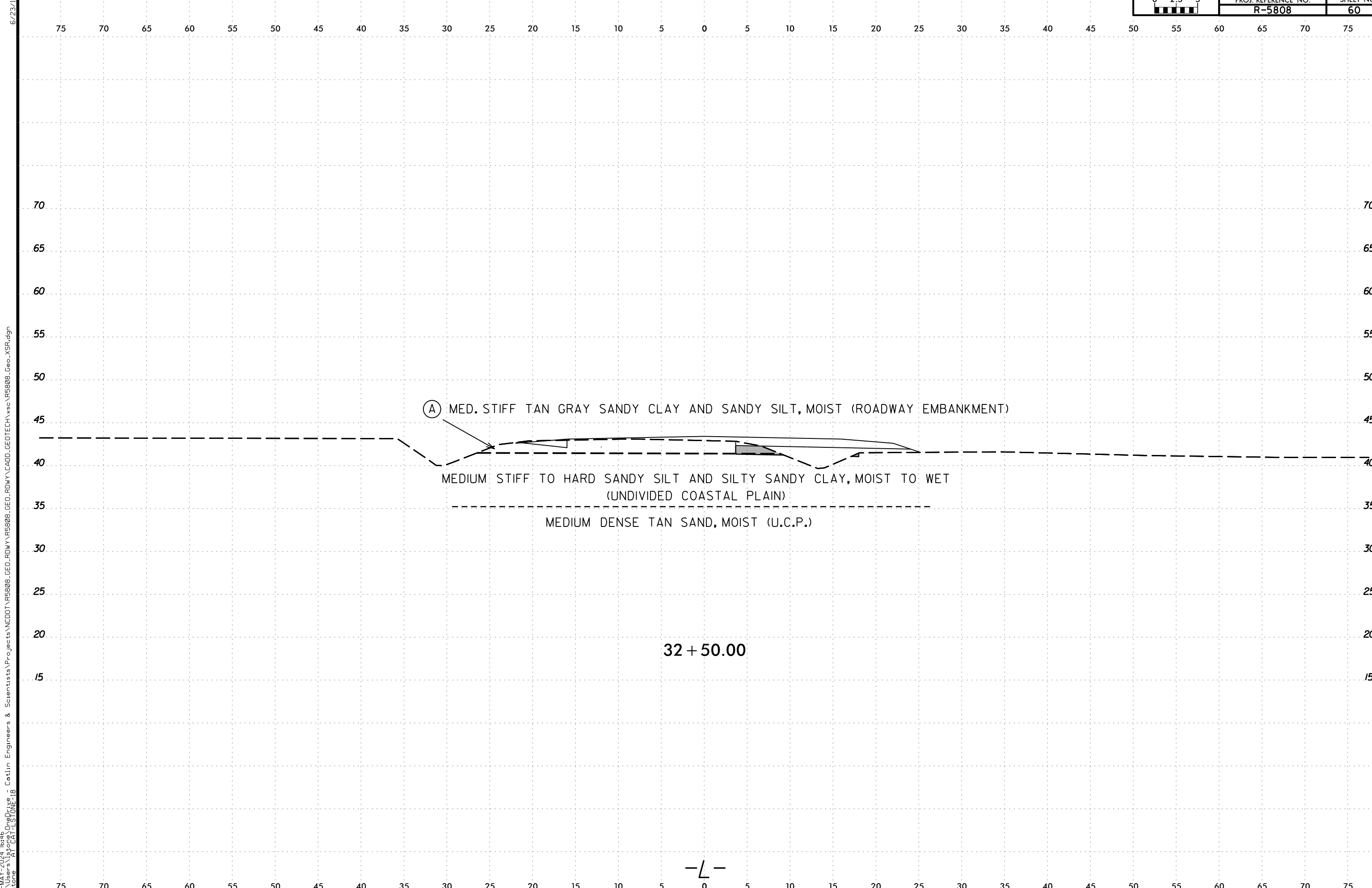
(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

32 + 00.00



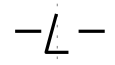


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET  
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

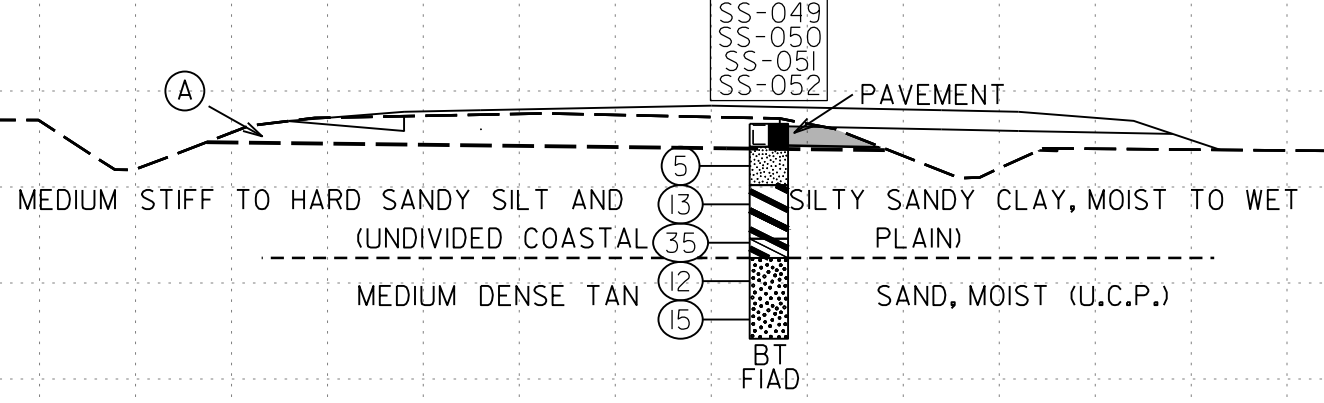
32 + 50.00



21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

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-049	3 ft RT	33+00	1.2 - 3.2	A-4(1)	22	9	26.3	29.7	21.9	22.1	97.6	94	45	-	-
SS-050	3 ft RT	33+00	3.2 - 5.2	A-7-6(28)	57	36	9.6	15.4	21.2	53.8	100	99	77	-	-
SS-051	3 ft RT	33+00	6.0 - 7.2	A-6(1)	28	14	13.0	52.0	8.3	26.8	99.8	98	37	-	-
SS-052	3 ft RT	33+00	7.5 - 9.2	A-2-4(0)	NP	NP	5.6	76.0	7.2	11.3	99.9	99	23	-	-

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

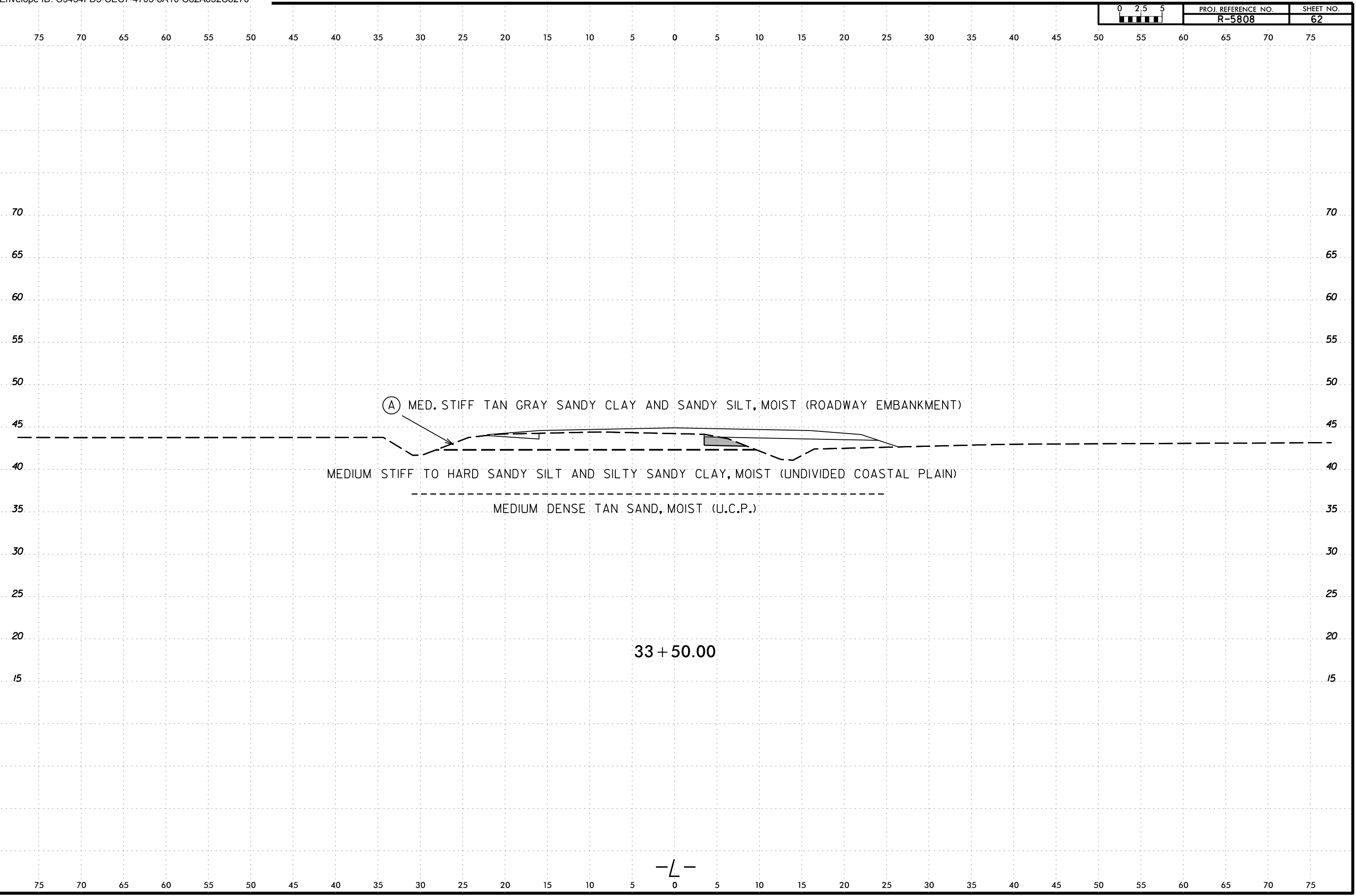


33 + 00.00

-L-

2-MAY-2024 16:45  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDOT\VR5808\_GEO\_RDWY\VR5808\_GEO\_CADD\GEO\RDWY\CADD\GEO\TECH\XSC\VR5808\_GEO\_XSR.dgn  
 jstone

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

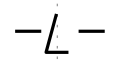


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

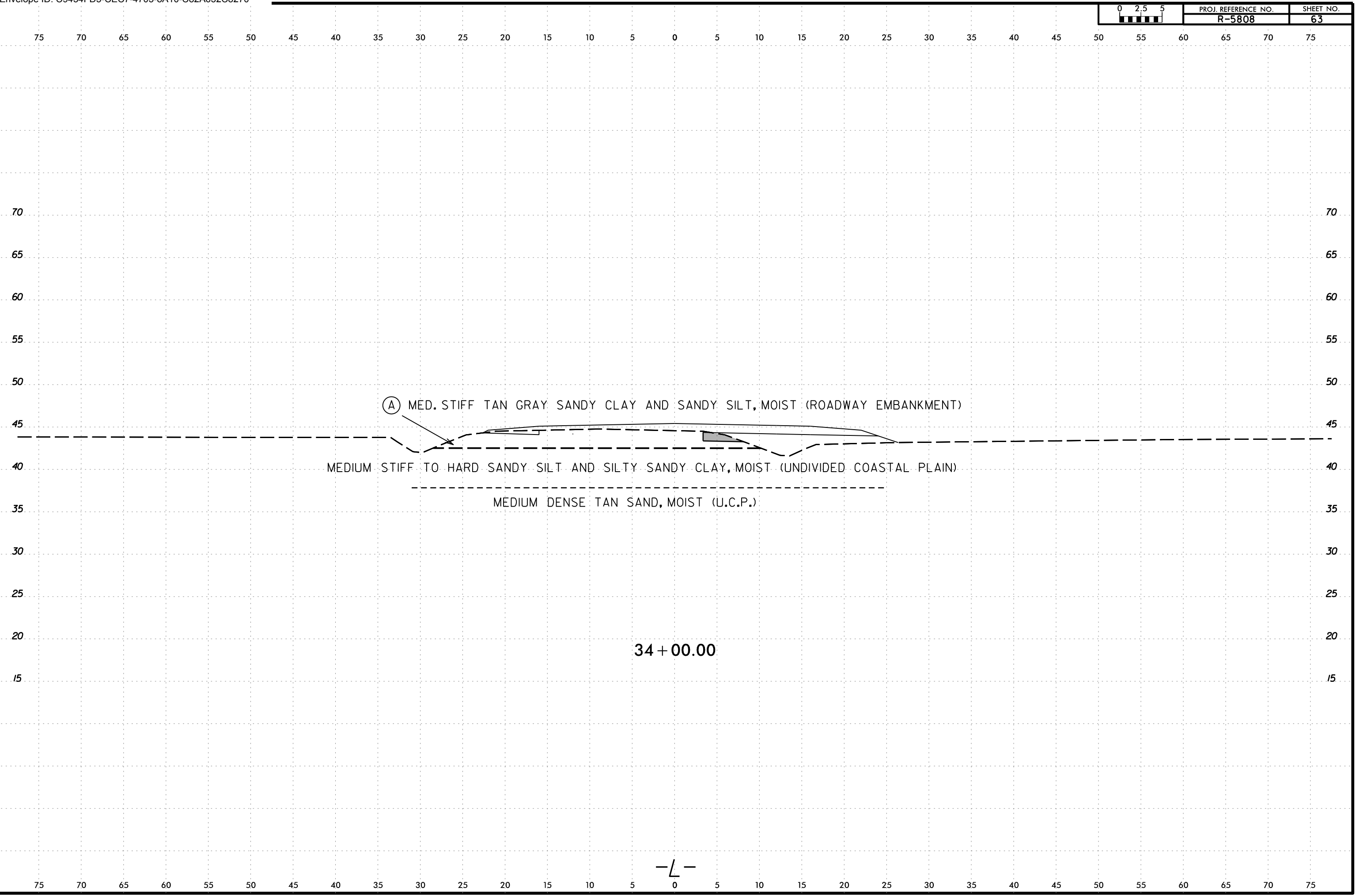
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

33 + 50.00



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\RDWY\RS808\_GEO\_XSR.dgn  
jstone

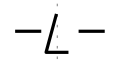


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

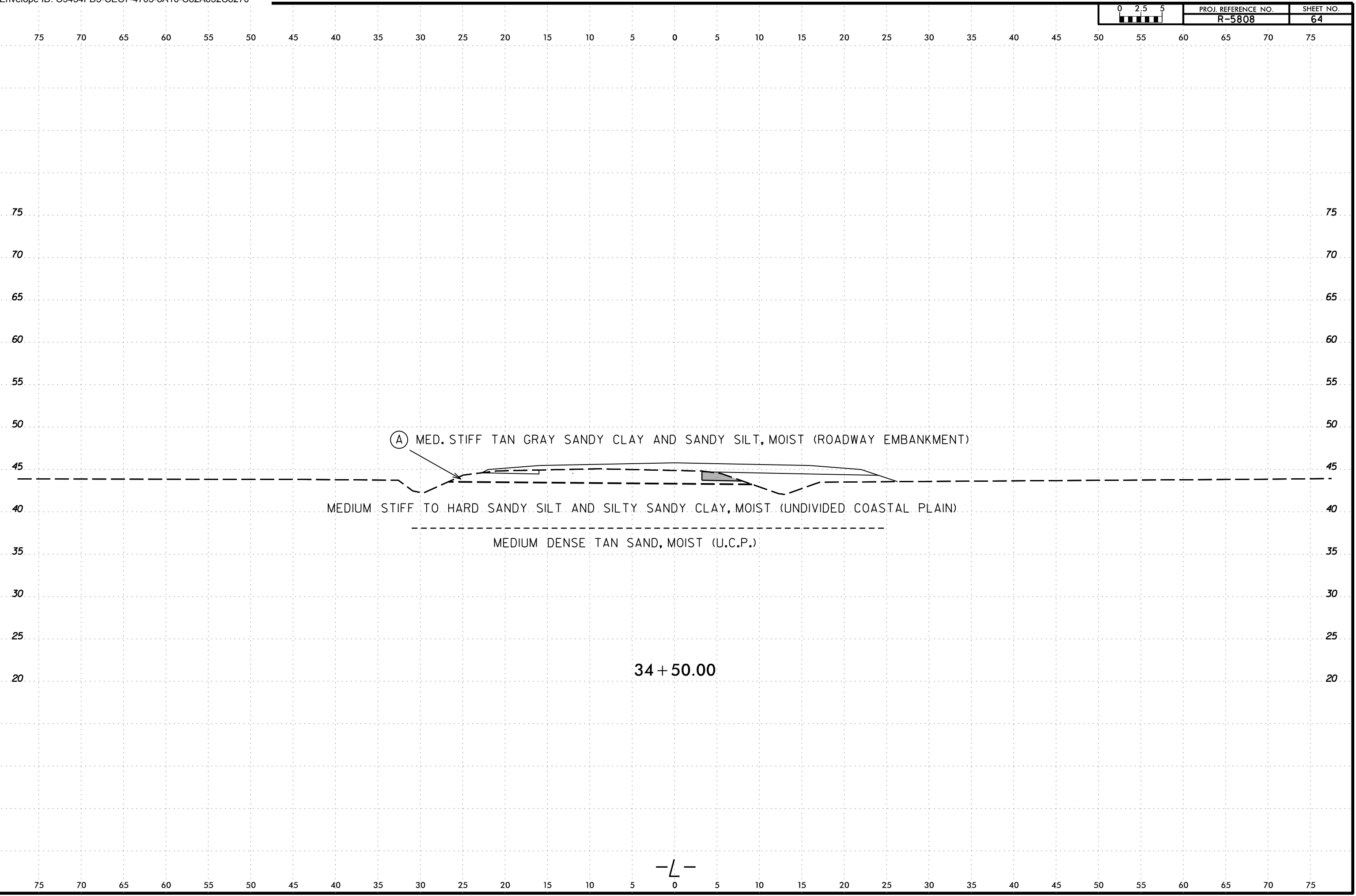
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

34 + 00.00



6/23/16  
2-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
jstone  
AT CAT-1 STONE-18

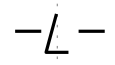


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

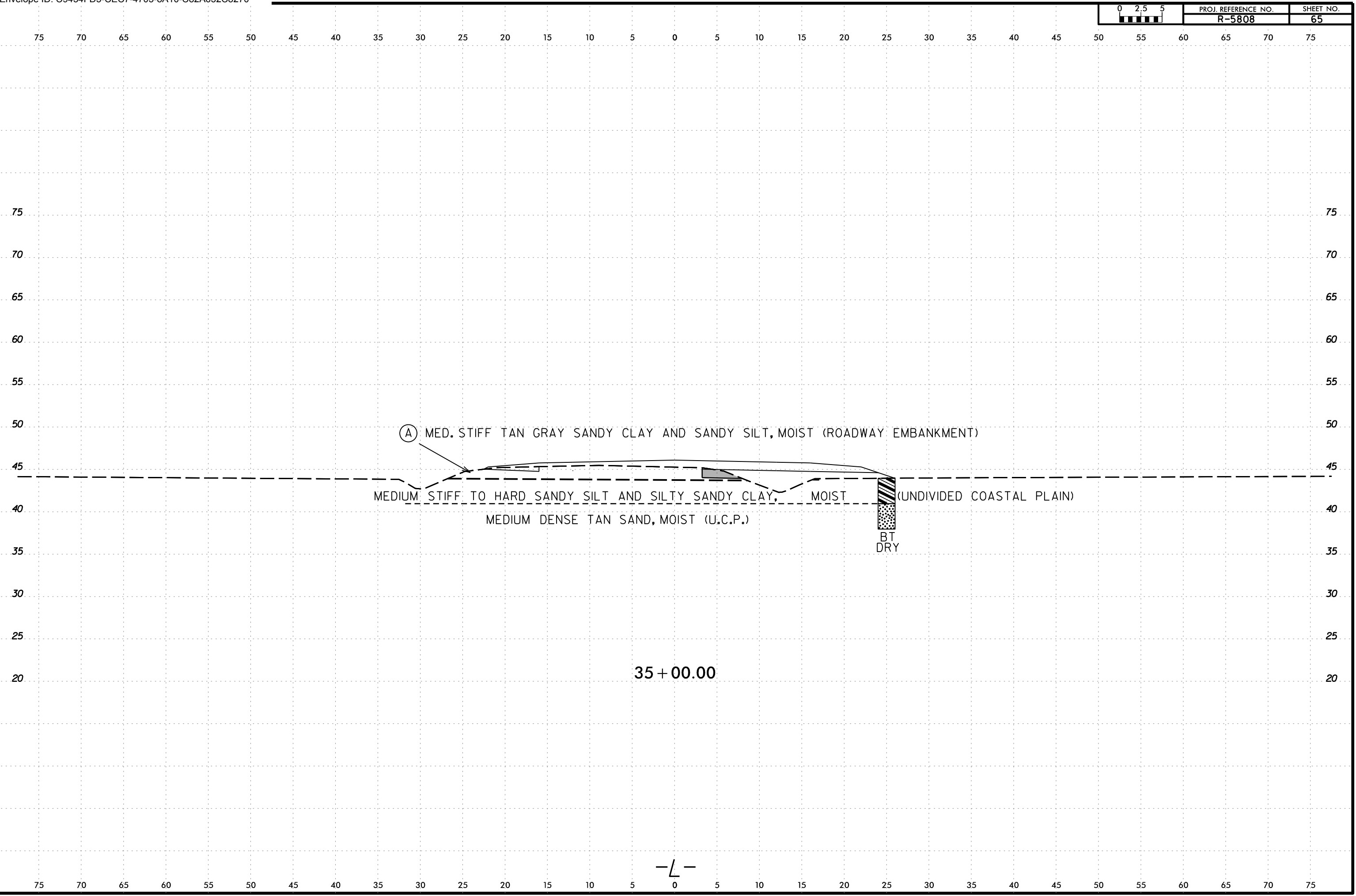
MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

34 + 50.00





6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\CADD\_GEO\RDWY\XSR.dgn



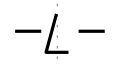
(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

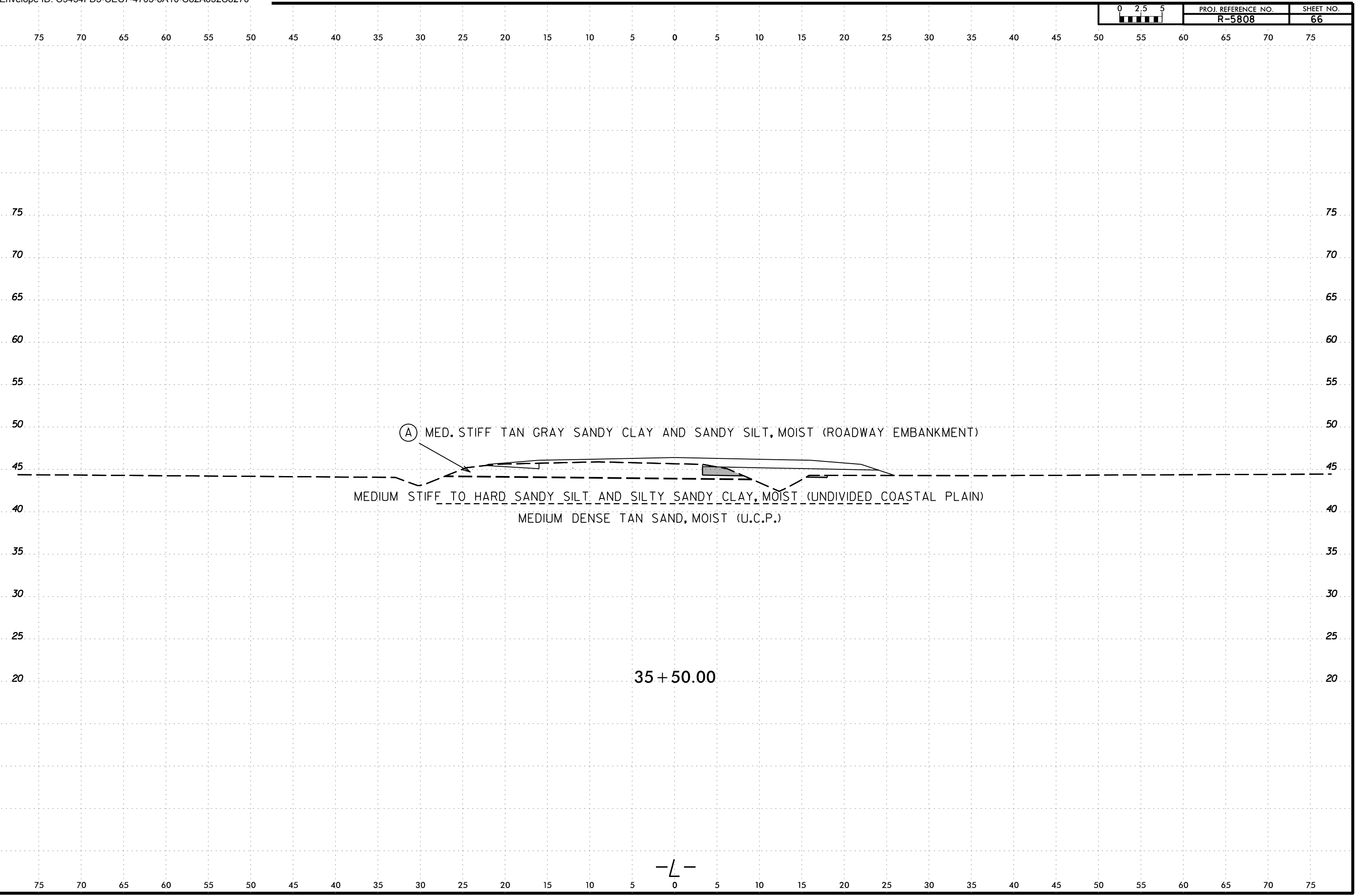
MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

BT  
DRY

35 + 00.00

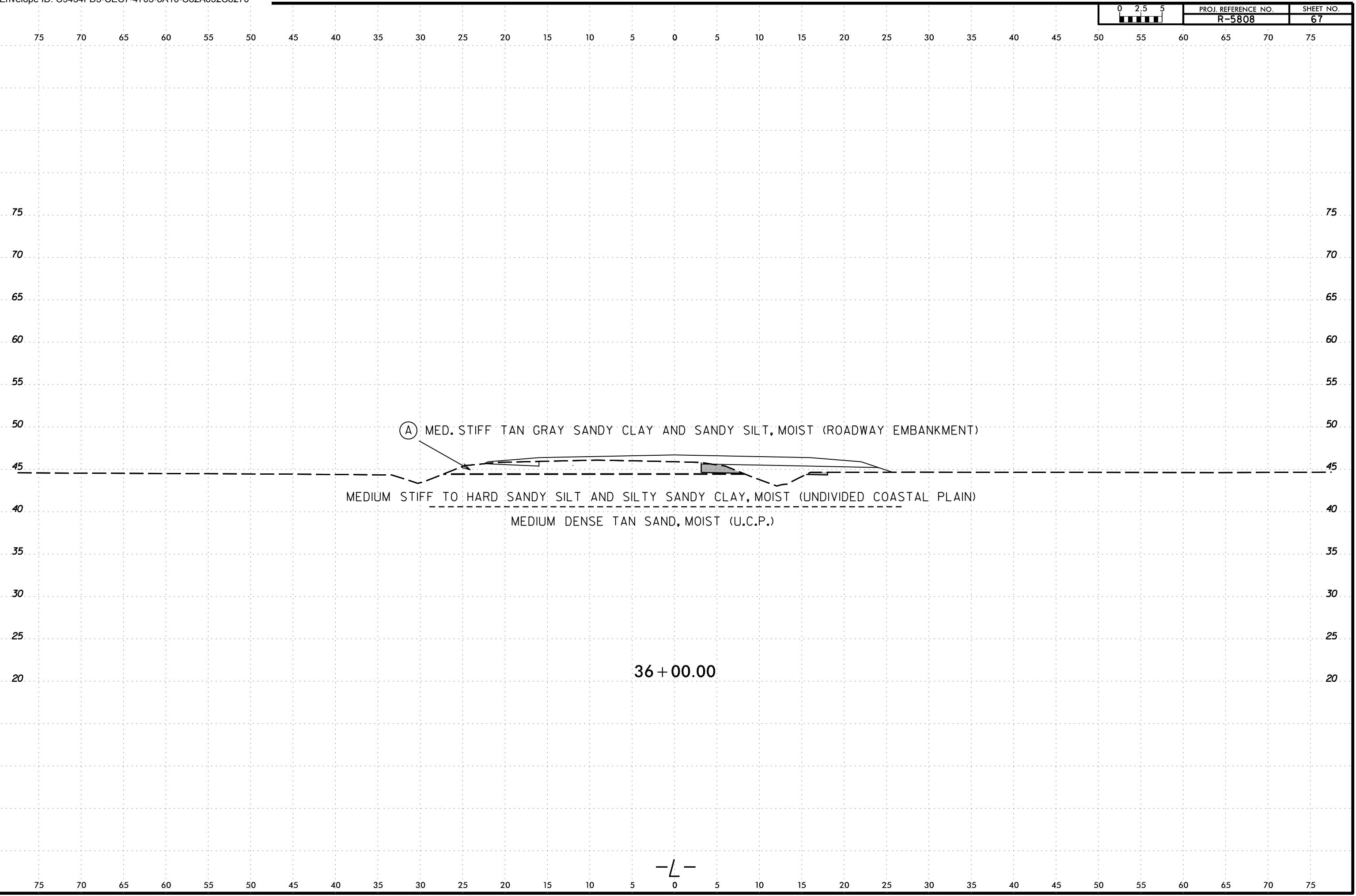


6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\ACADD\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone

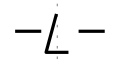


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

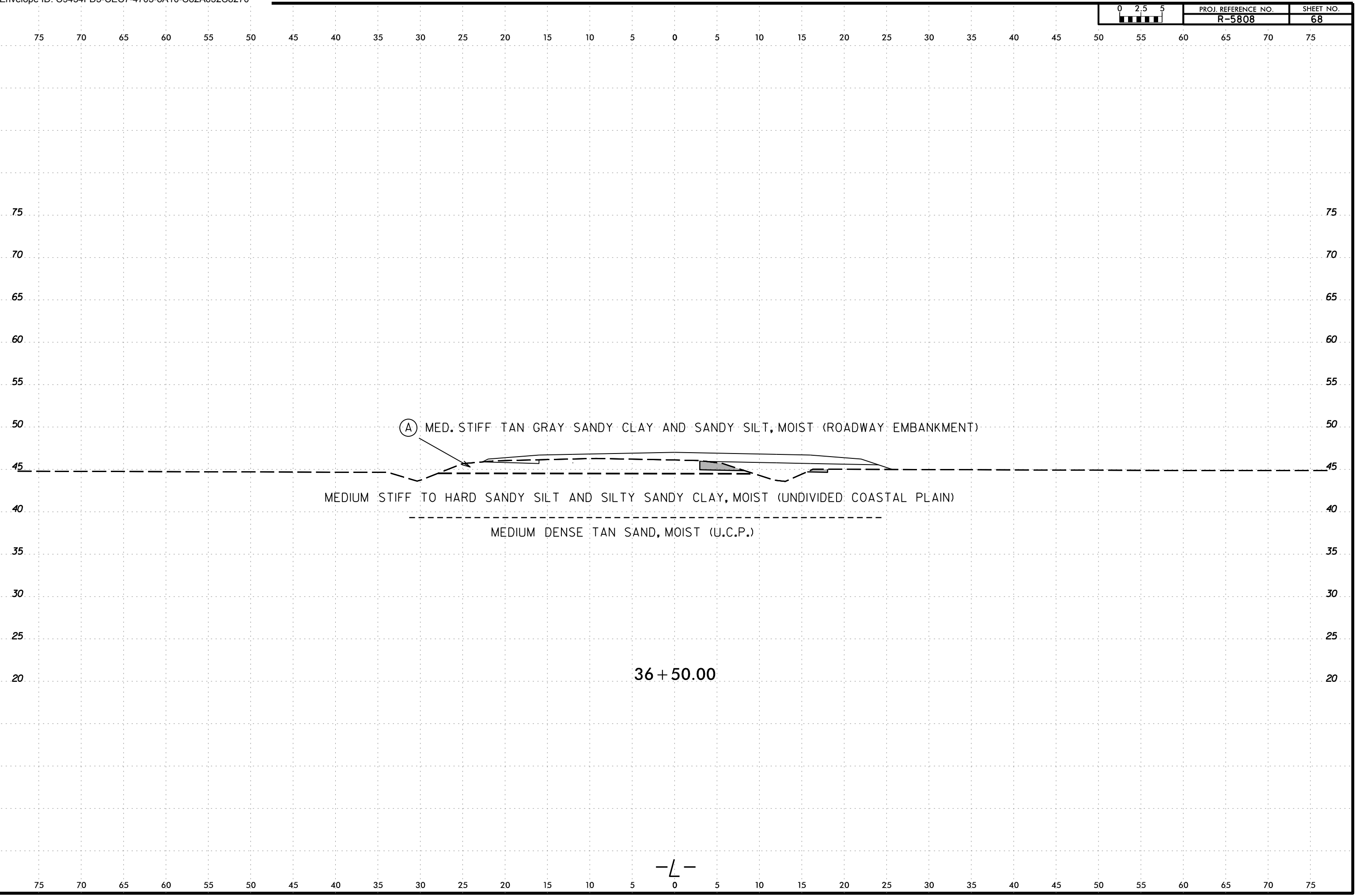
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

36 + 00.00



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

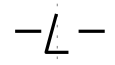


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

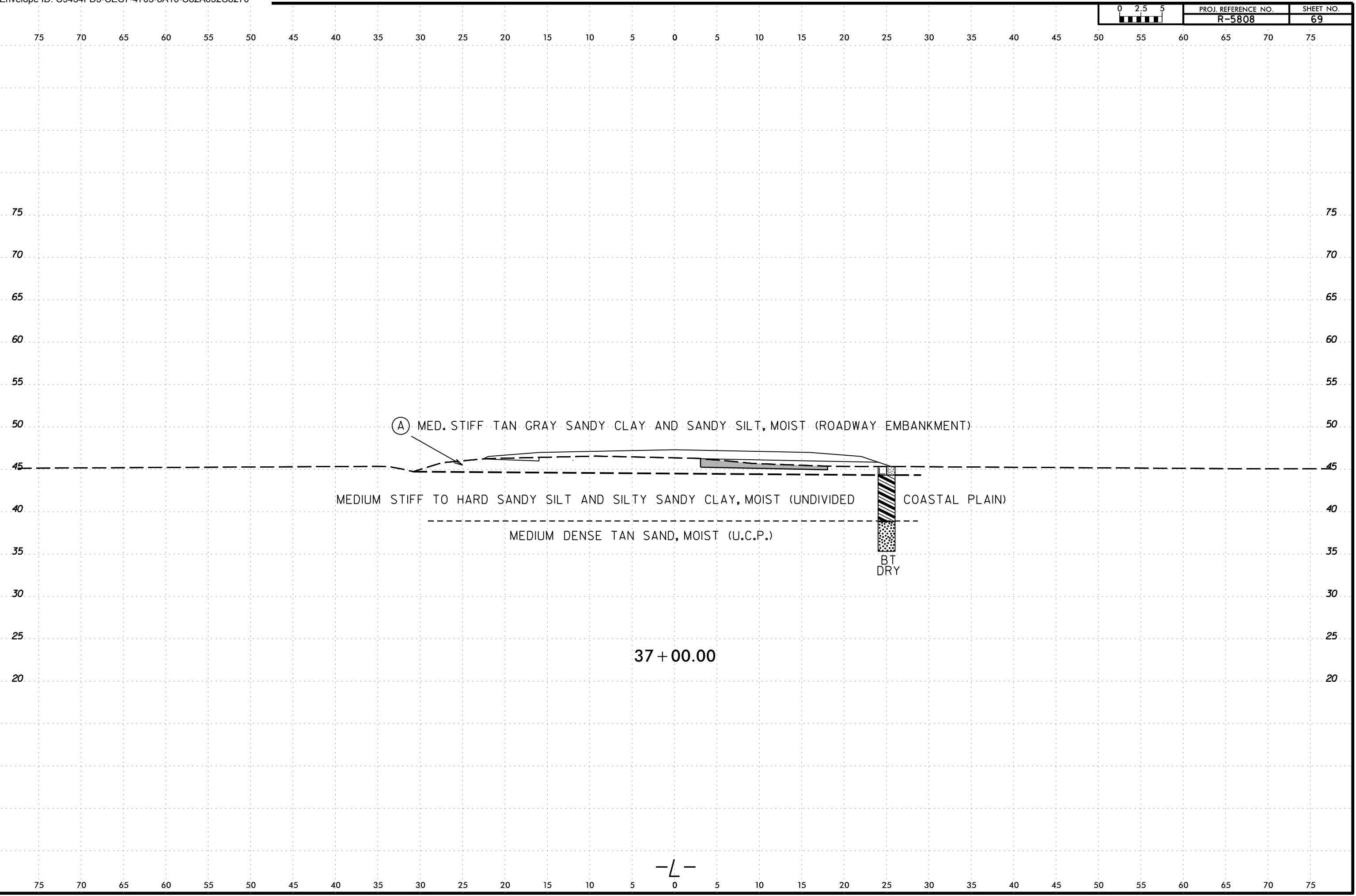
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

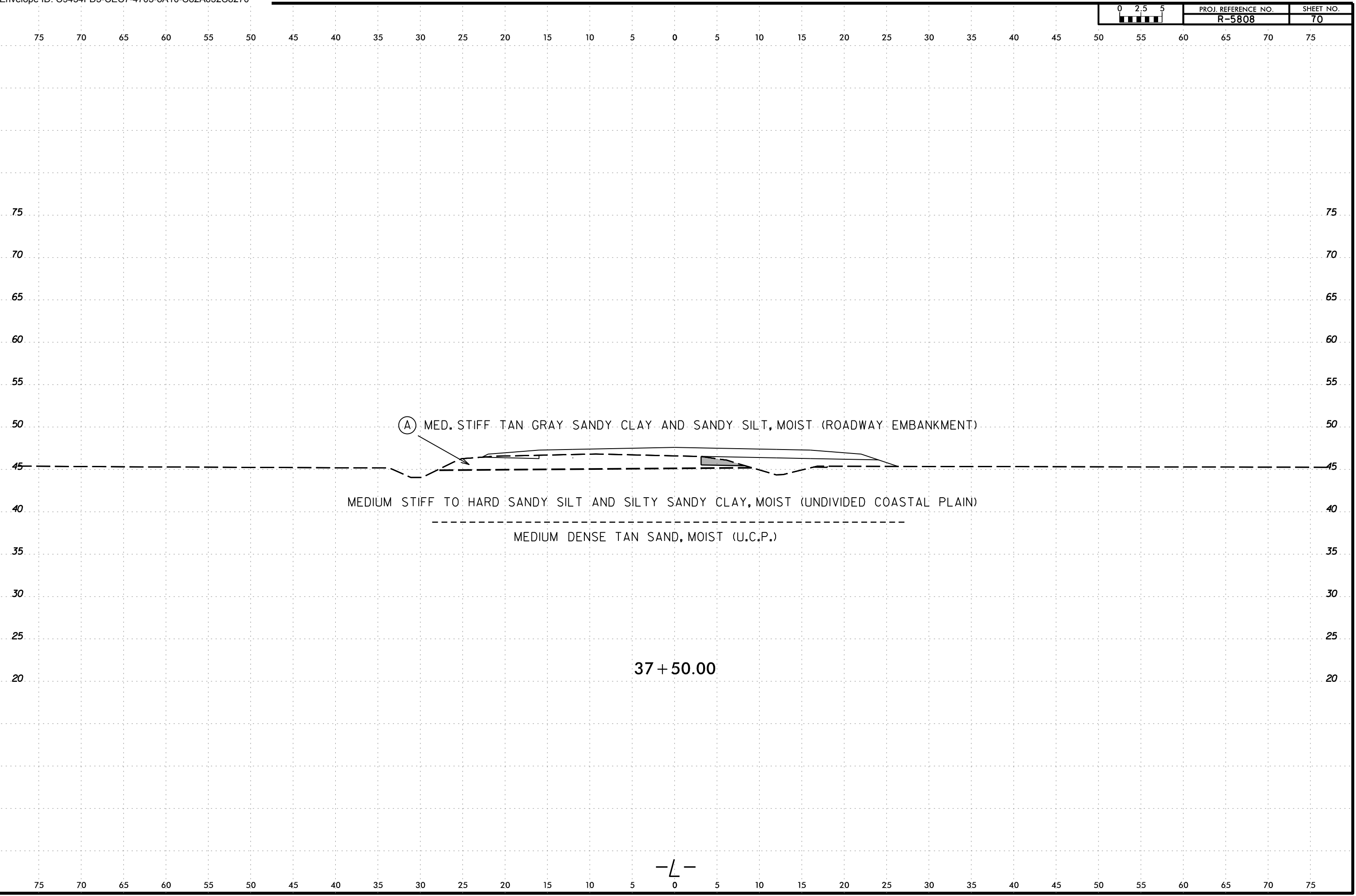
36 + 50.00



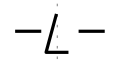
6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
jstone



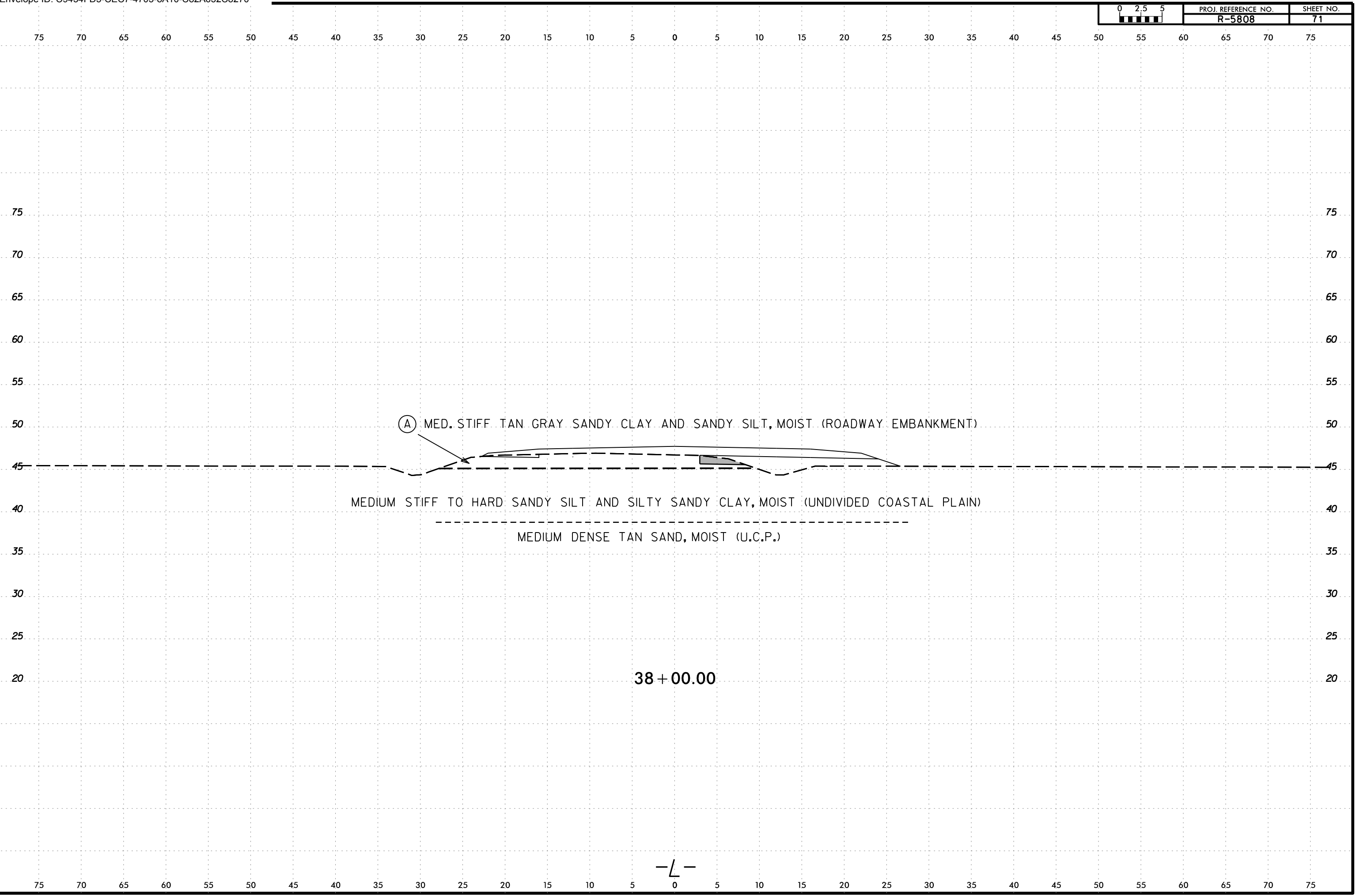
6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
ISTONE



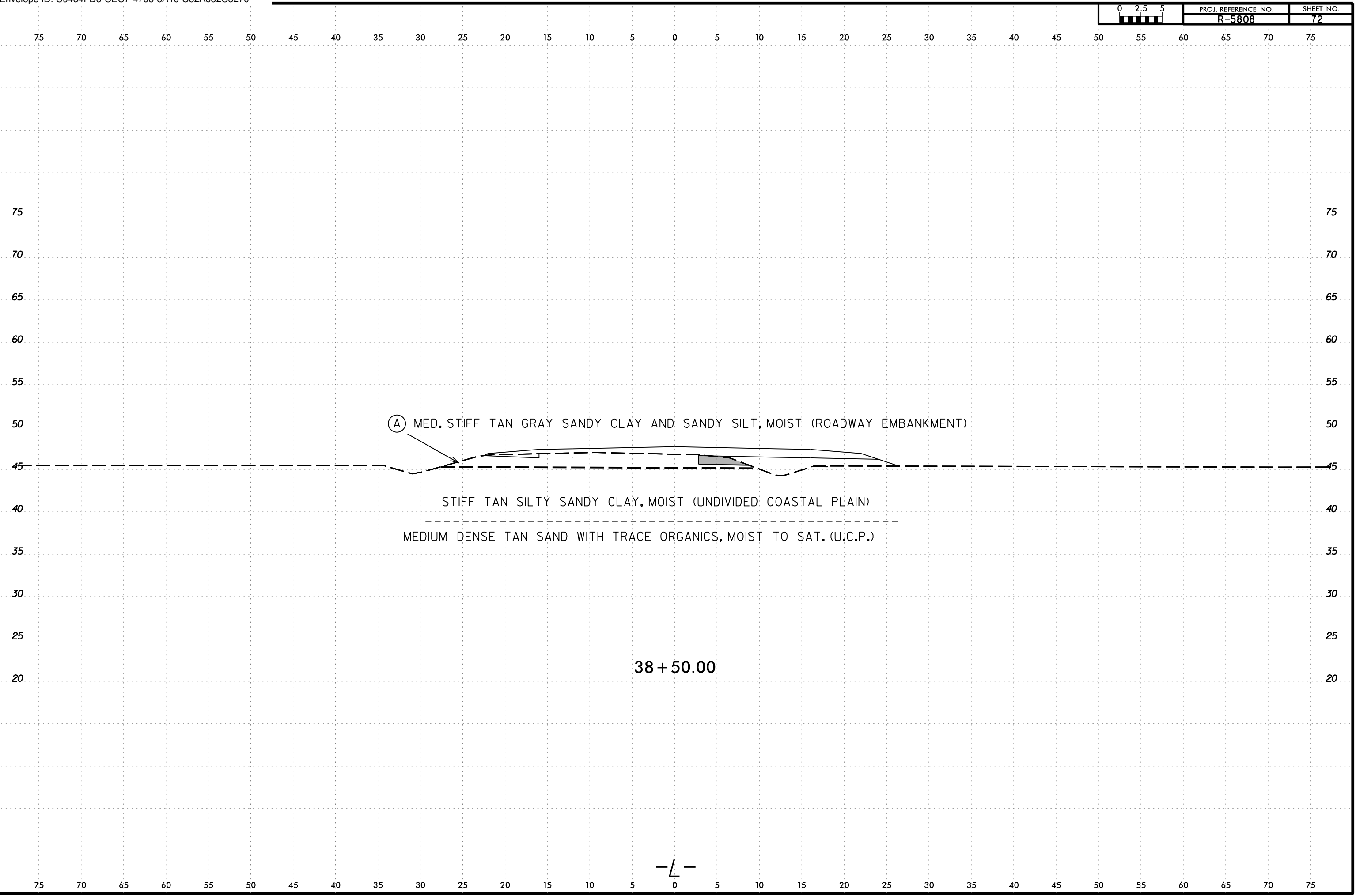
37 + 50.00



6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



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

STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

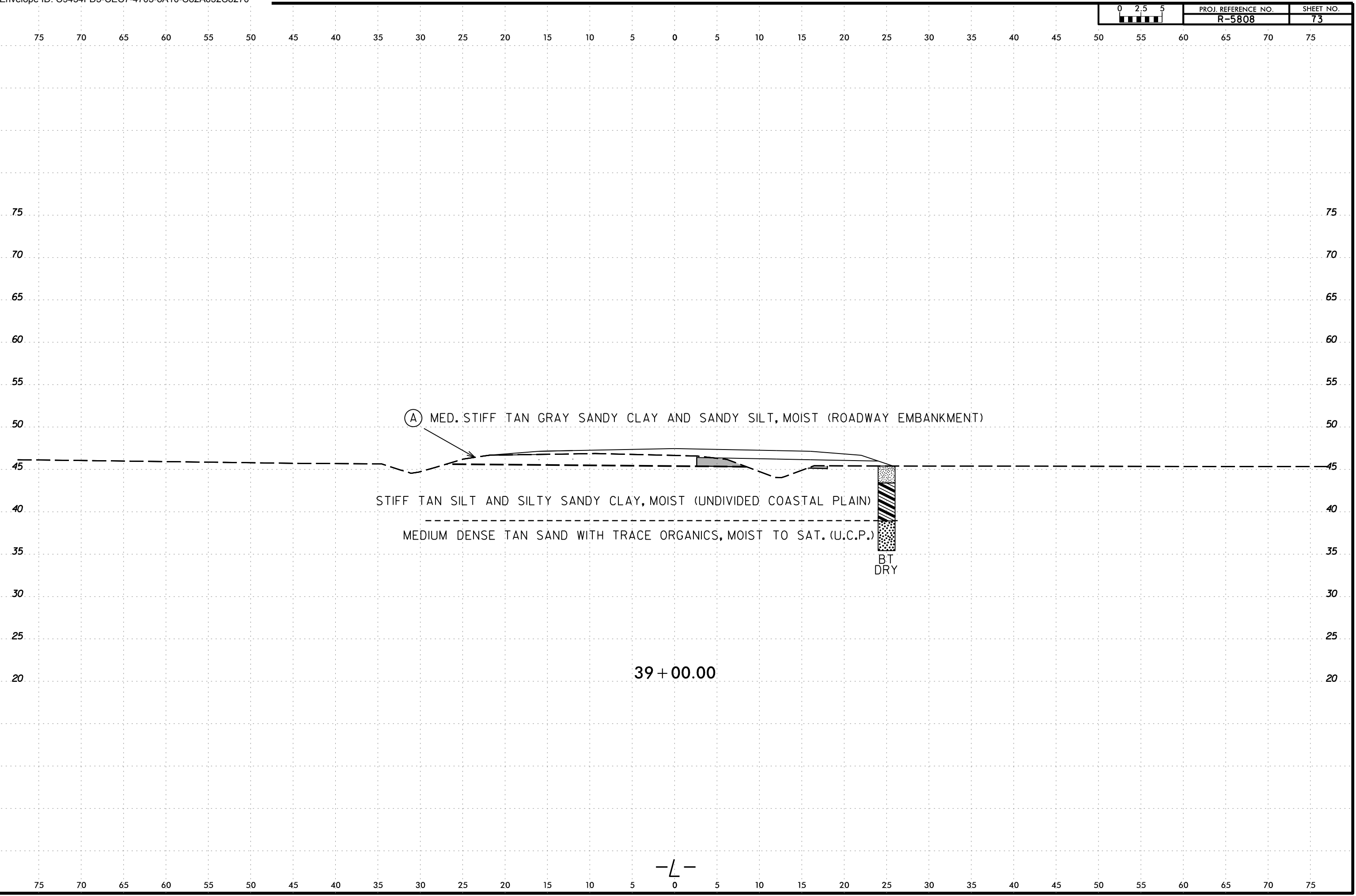
MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

38 + 50.00

-L-



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
ISTONE  
AT CAT-1 STONE-18



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

STIFF TAN SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

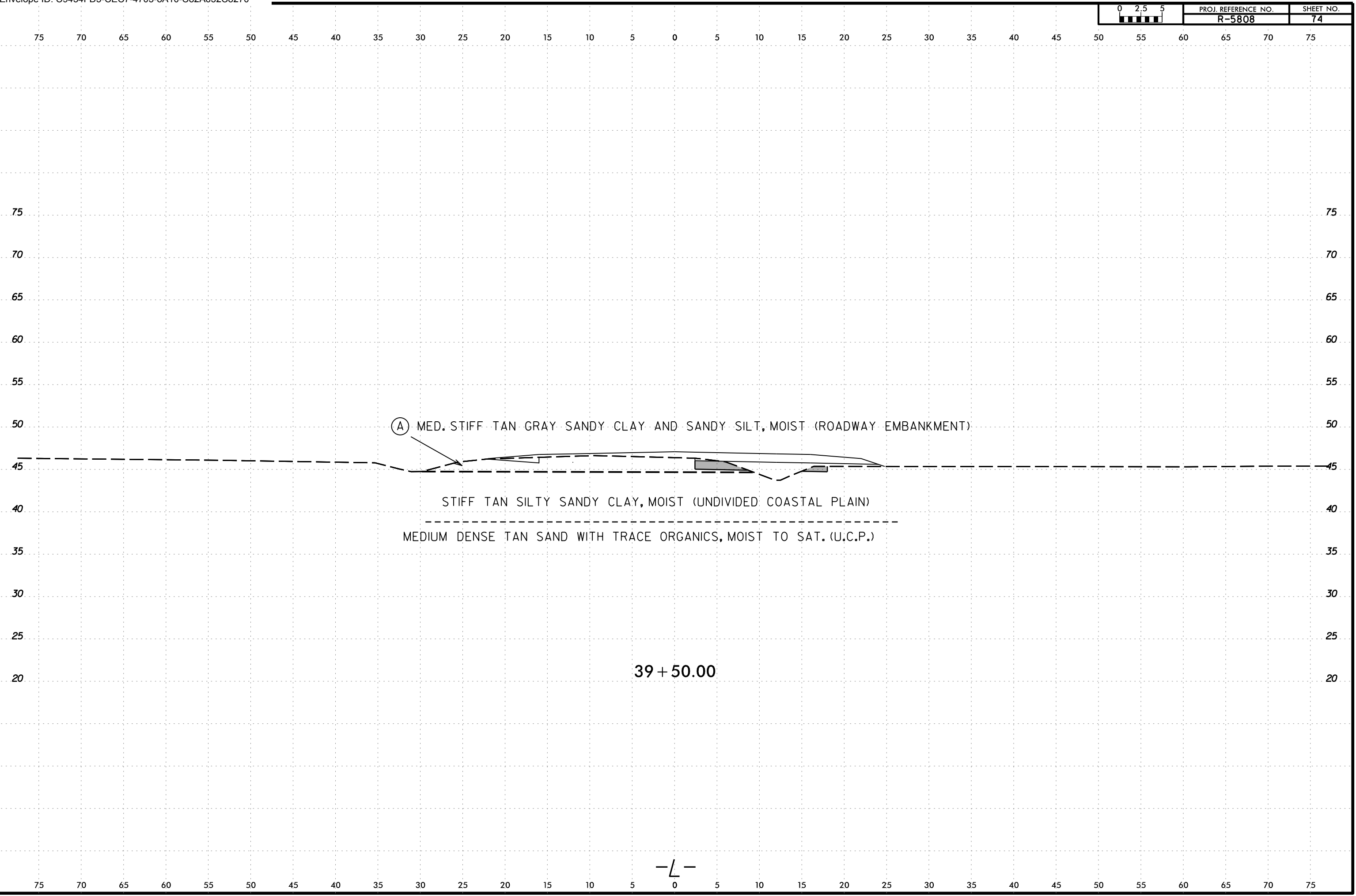
MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

BT  
DRY

39 + 00.00

-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone  
AT CAT-1 STONE-18

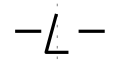


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

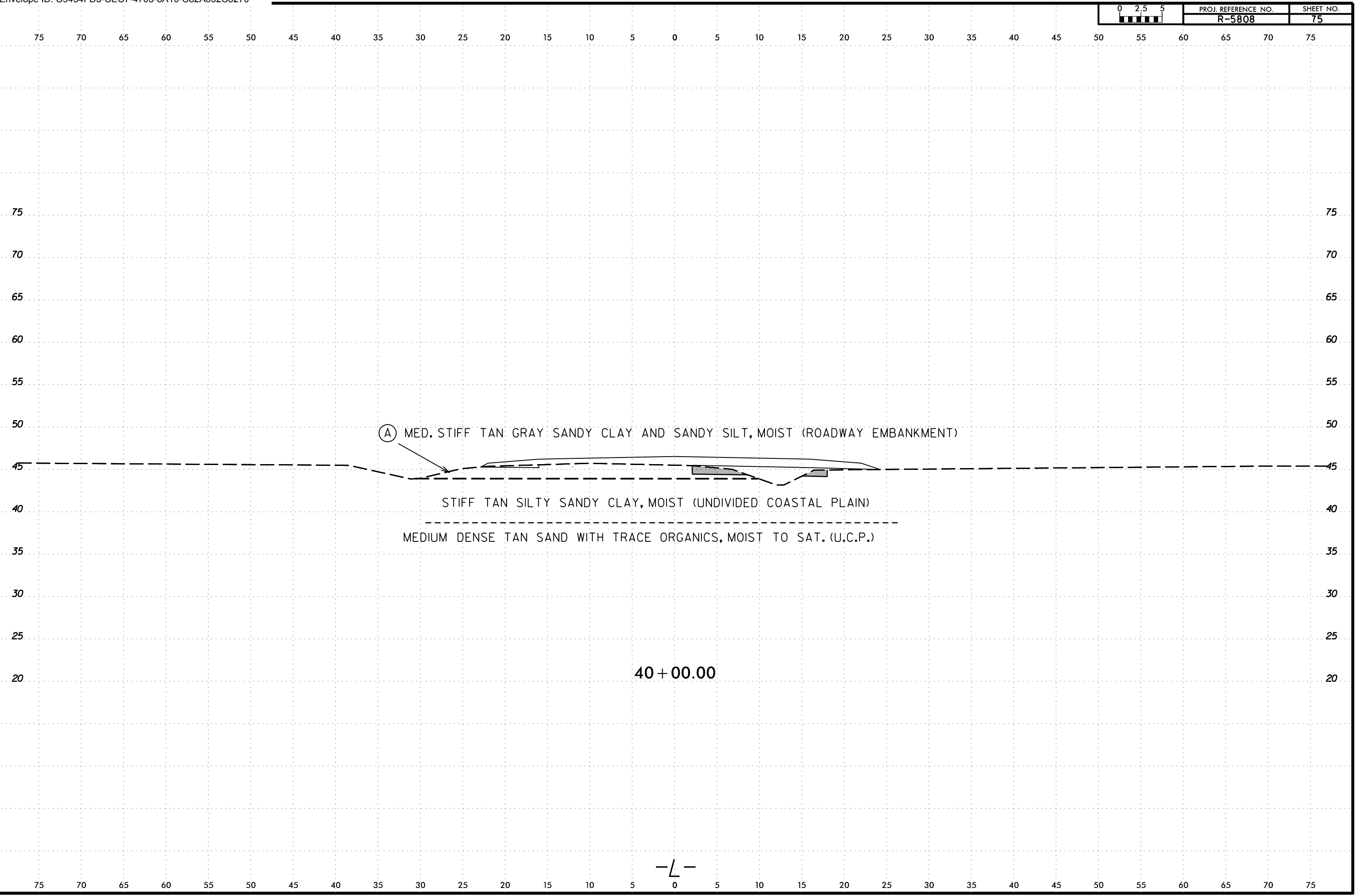
STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

39 + 50.00



6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
jstone

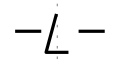


(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

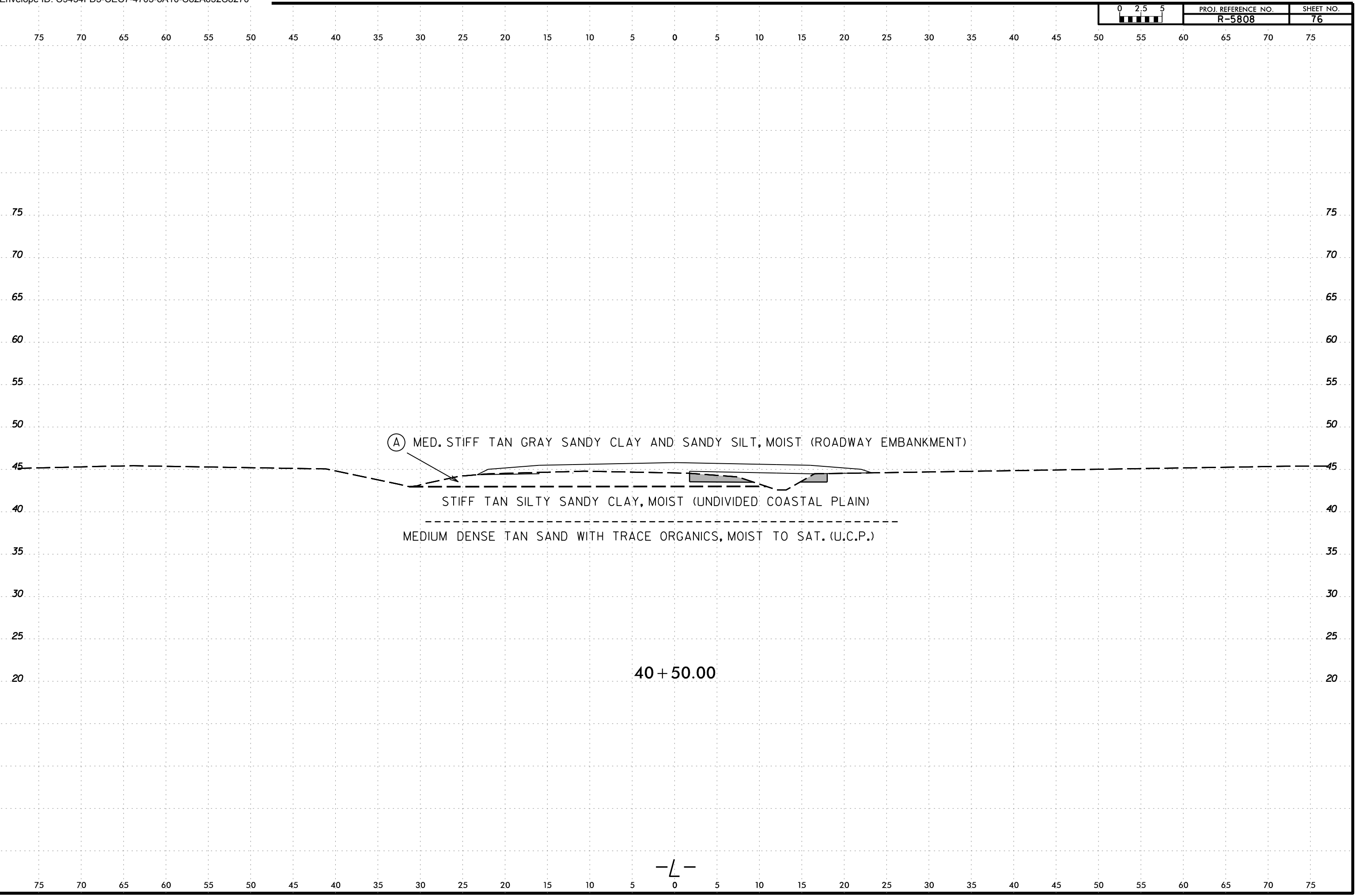
STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

40 + 00.00

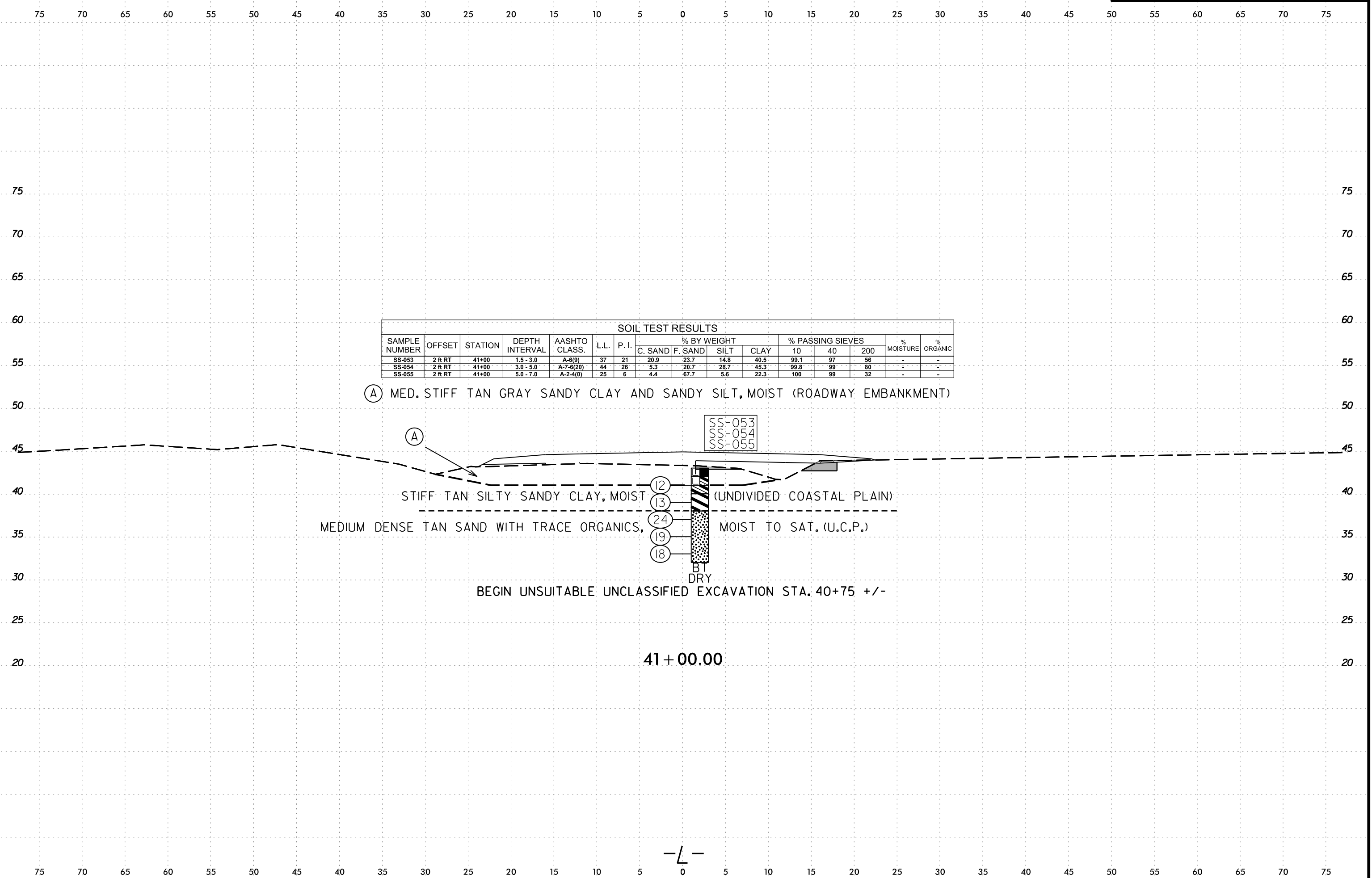


6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
ISTONE



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	-	-

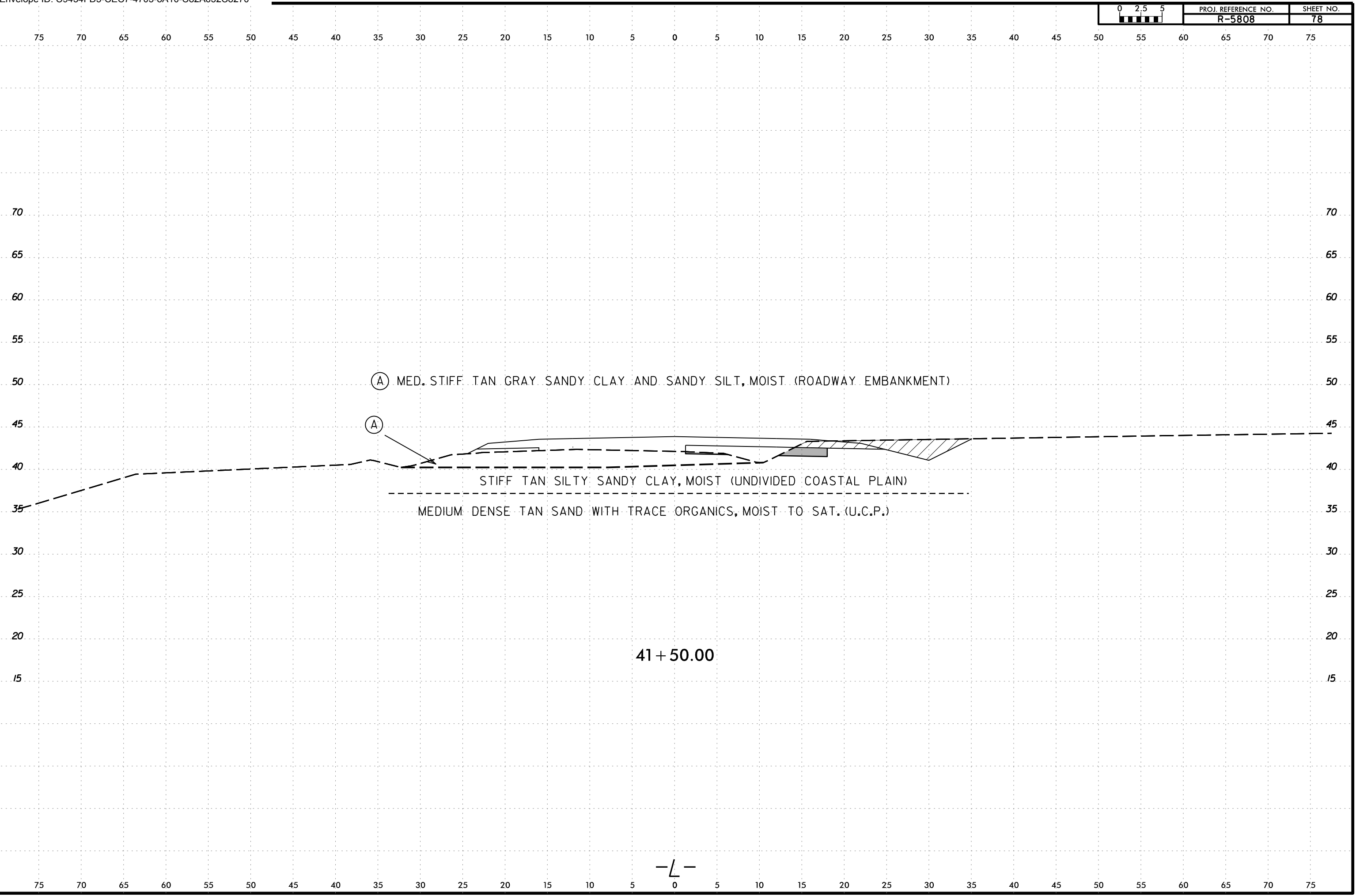
(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)



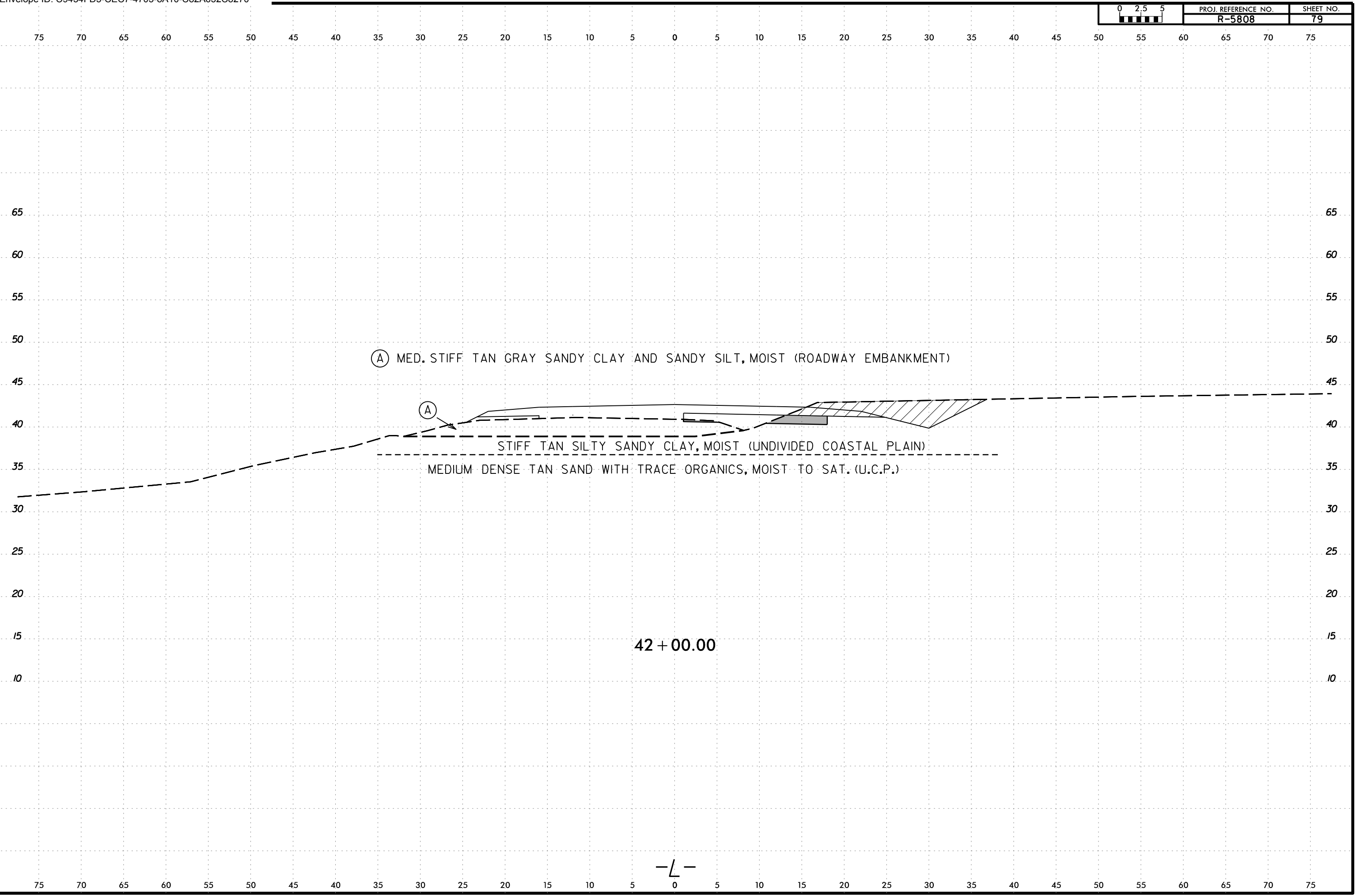
2-MAY-2024 16:45  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\RS808\_GEO\_XSR.dgn  
 jstone

-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR.dgn  
ISTONE

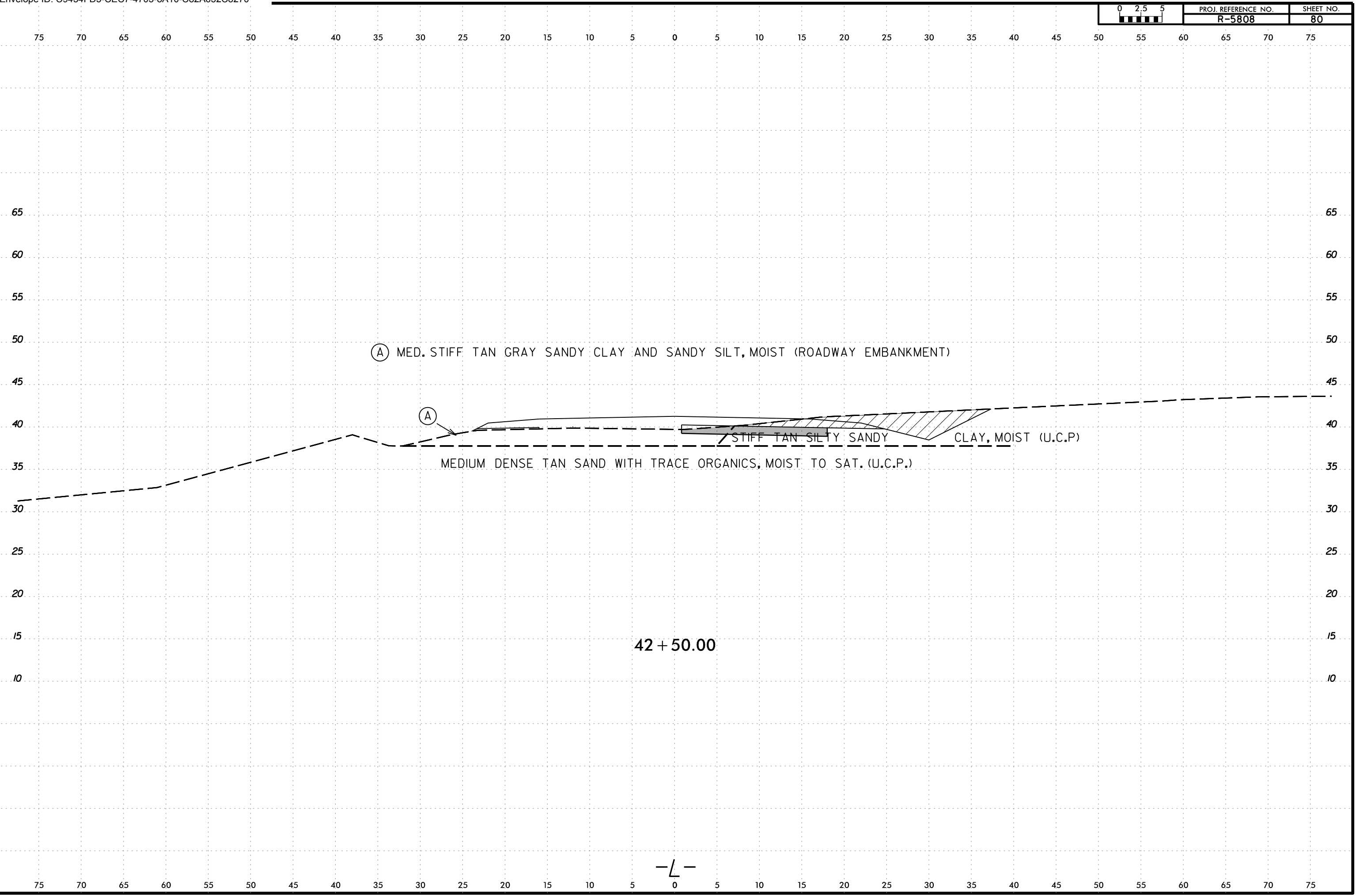


6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
18



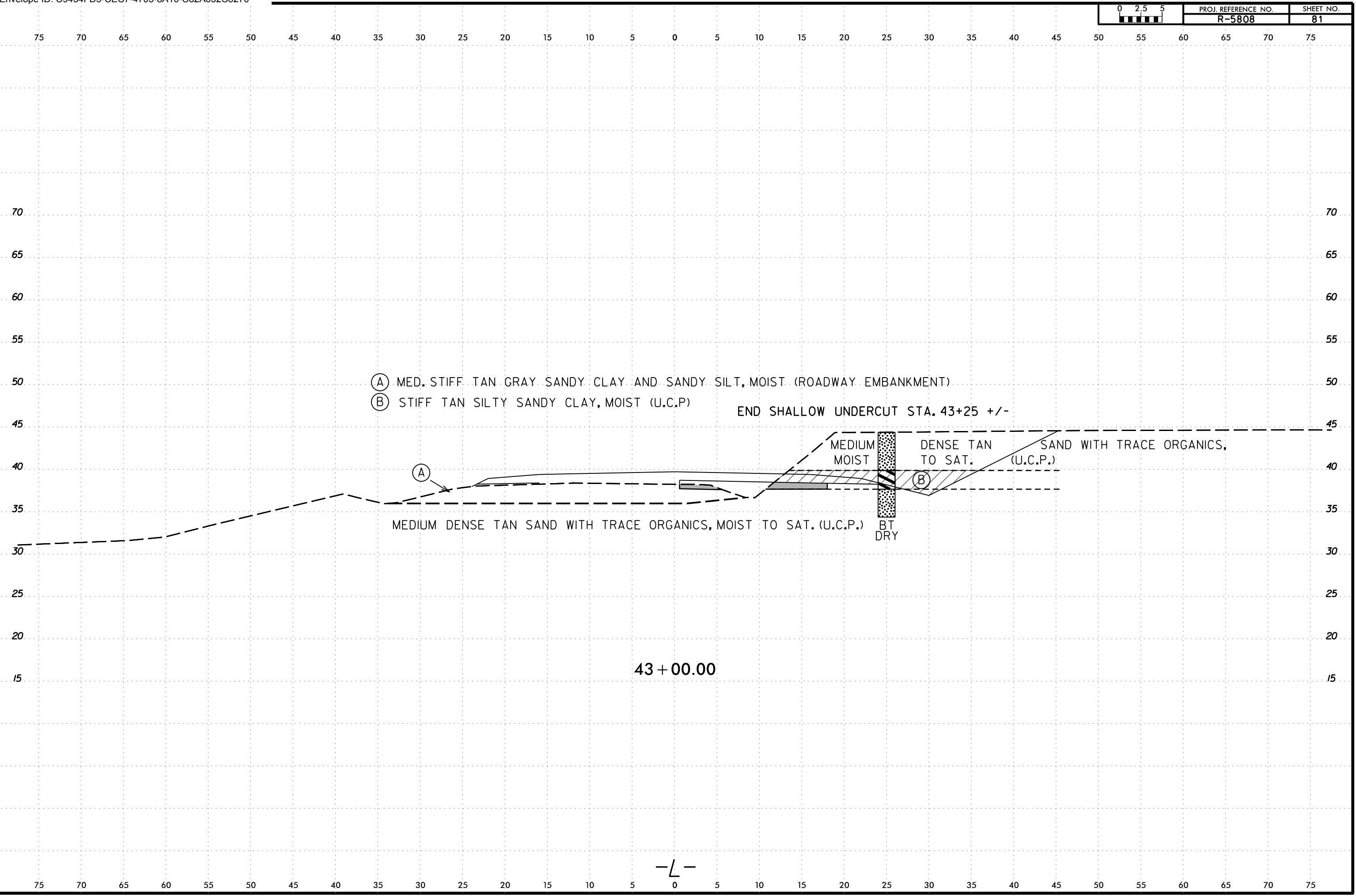
-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
ISTONE





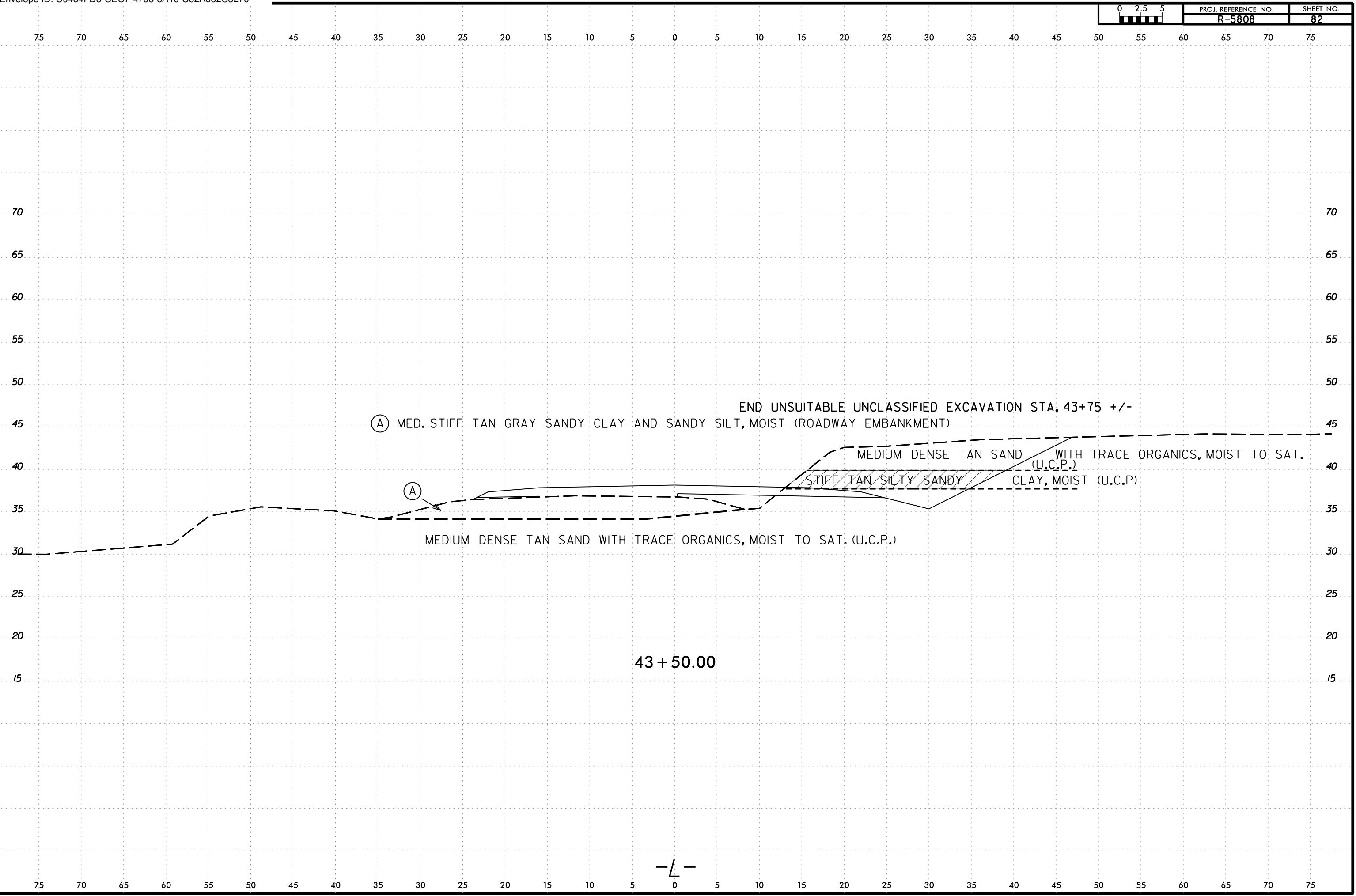
6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR.dgn  
jstone



43 + 00.00

-L-

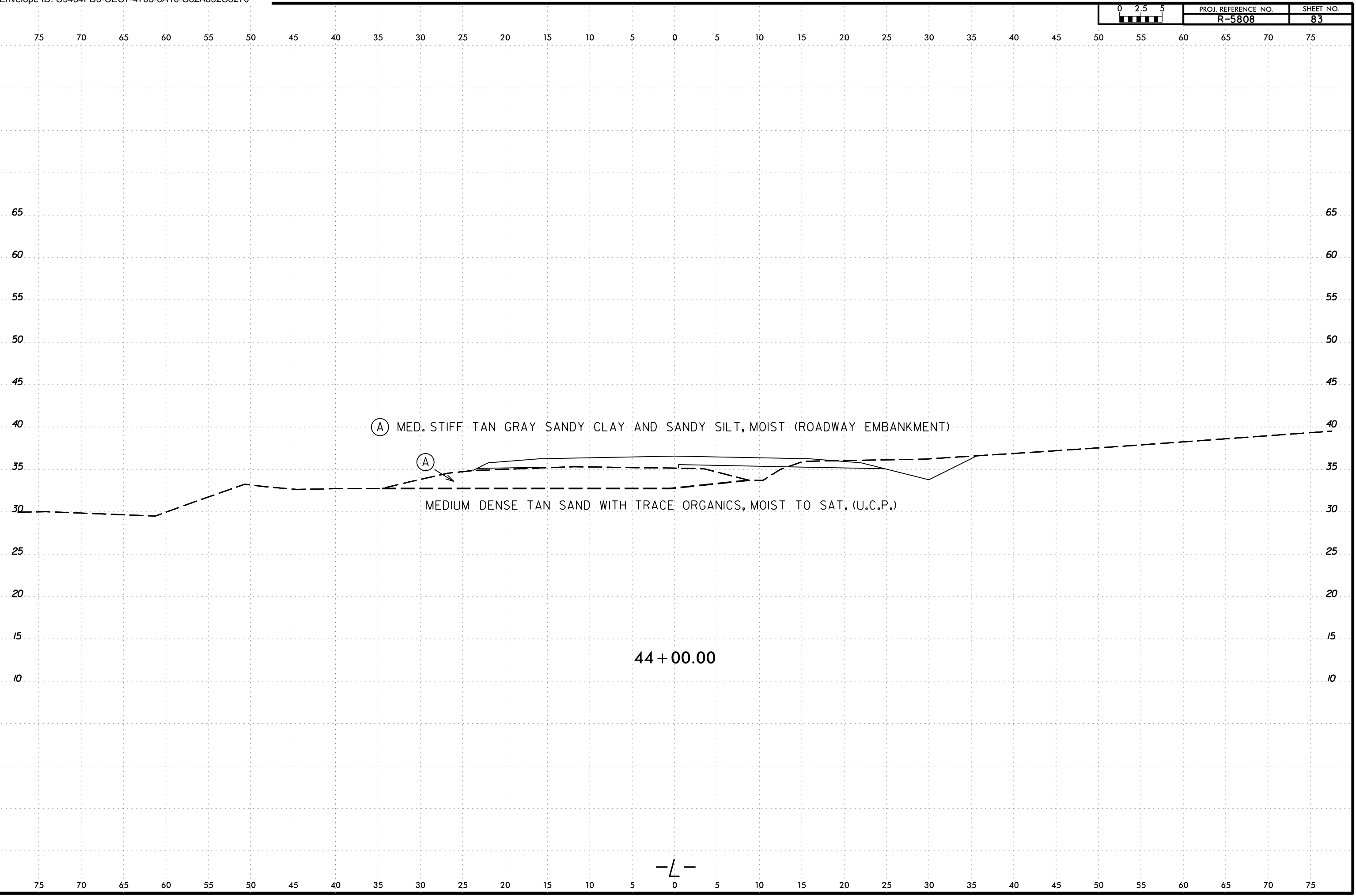
6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\VR5808L\_Geo\_XSR.dgn  
ISTONE



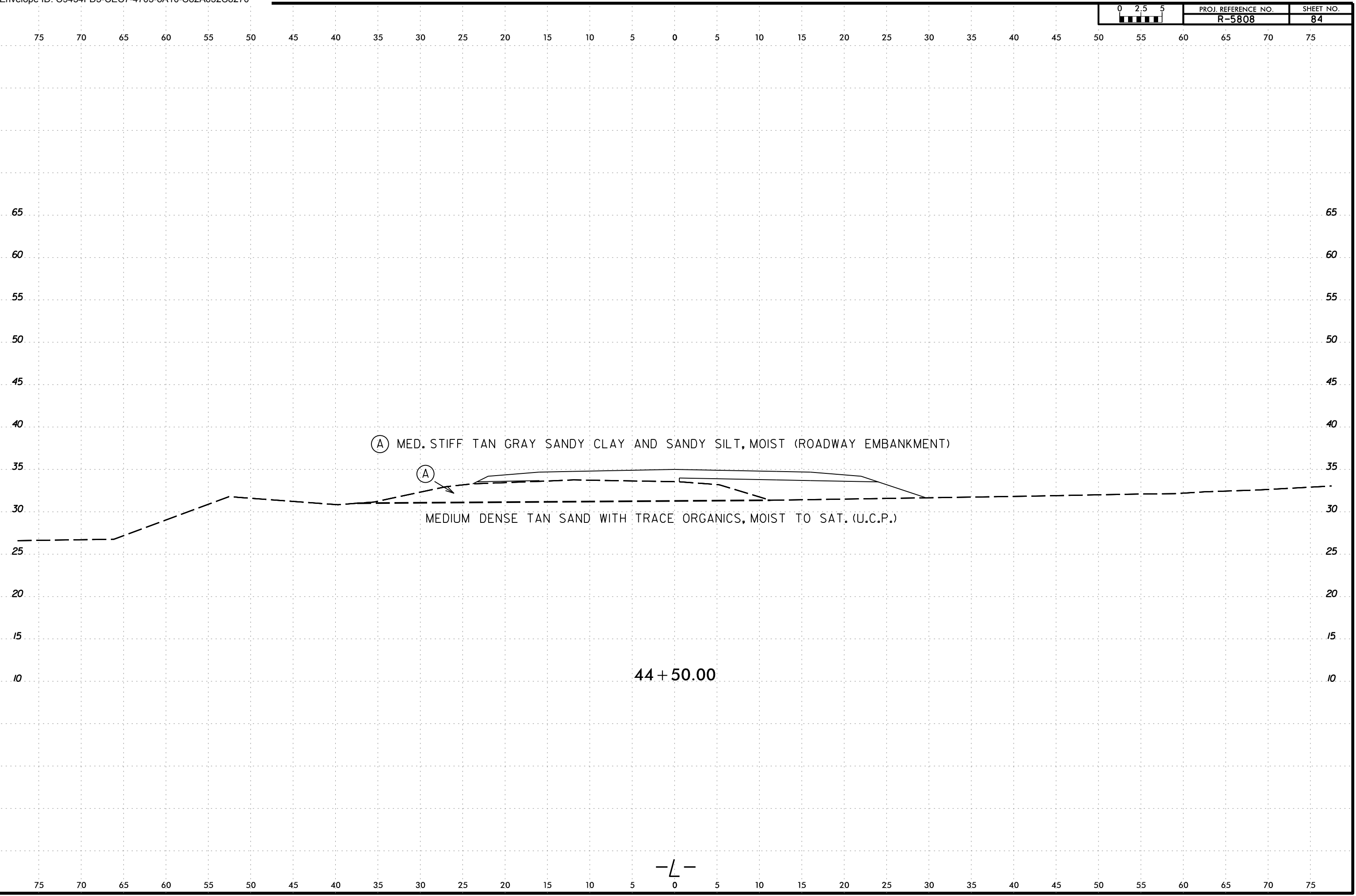
43 + 50.00

-L-

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\GEO\TECH\XSEC\R5808\_GEO\_XSR.dgn  
AT CAT-1 STONE-18

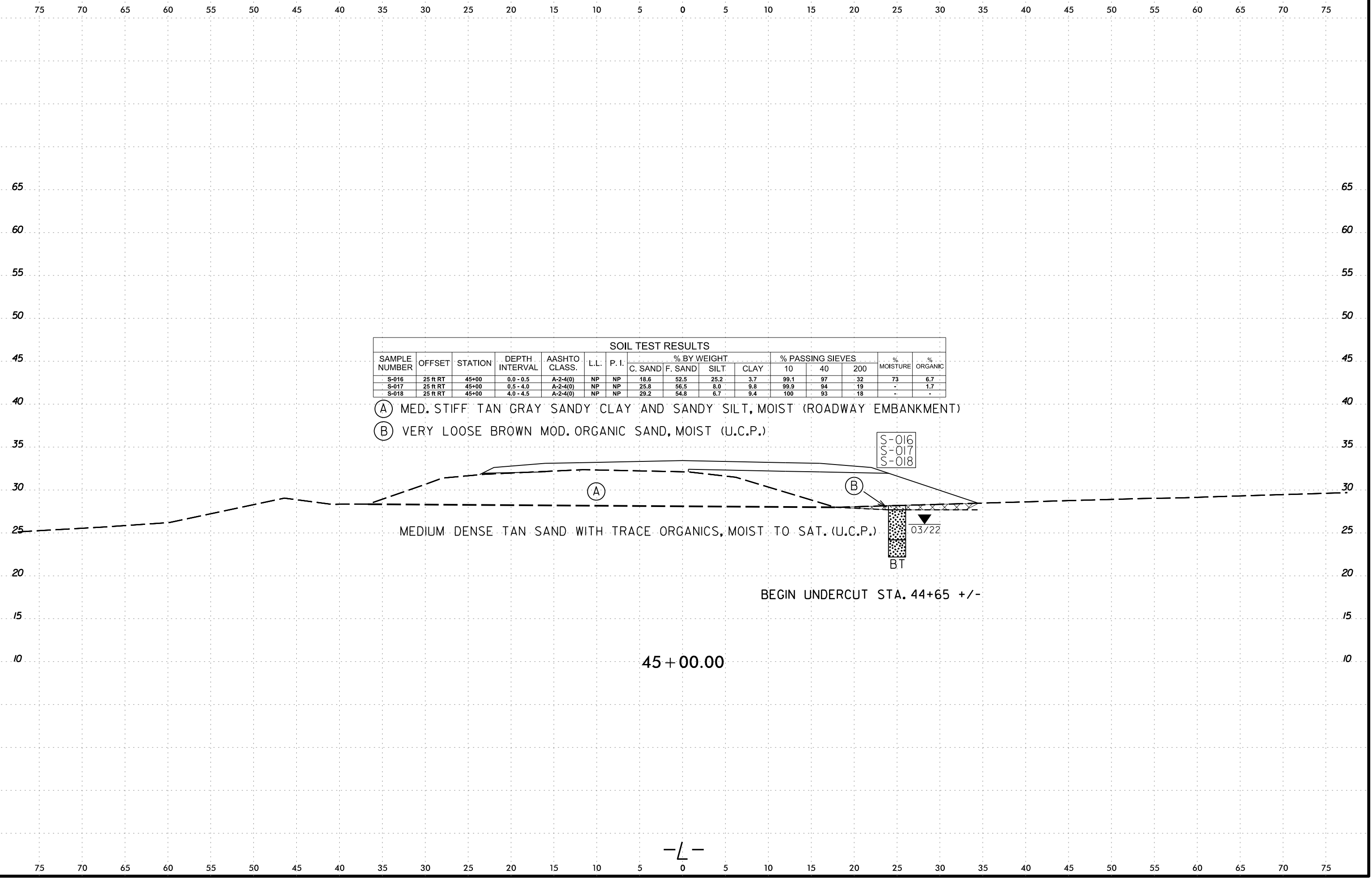


6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR.dgn  
ISTONE



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-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	6.7
S-017	25 ft RT	45+00	0.5 - 4.0	A-2-4(0)	NP	NP	25.8	56.5	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	-	-

- (A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)
- (B) VERY LOOSE BROWN MOD. ORGANIC SAND, MOIST (U.C.P.)



MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

BEGIN UNDERCUT STA. 44+65 +/-

45 + 00.00

S-016  
S-017  
S-018

BT

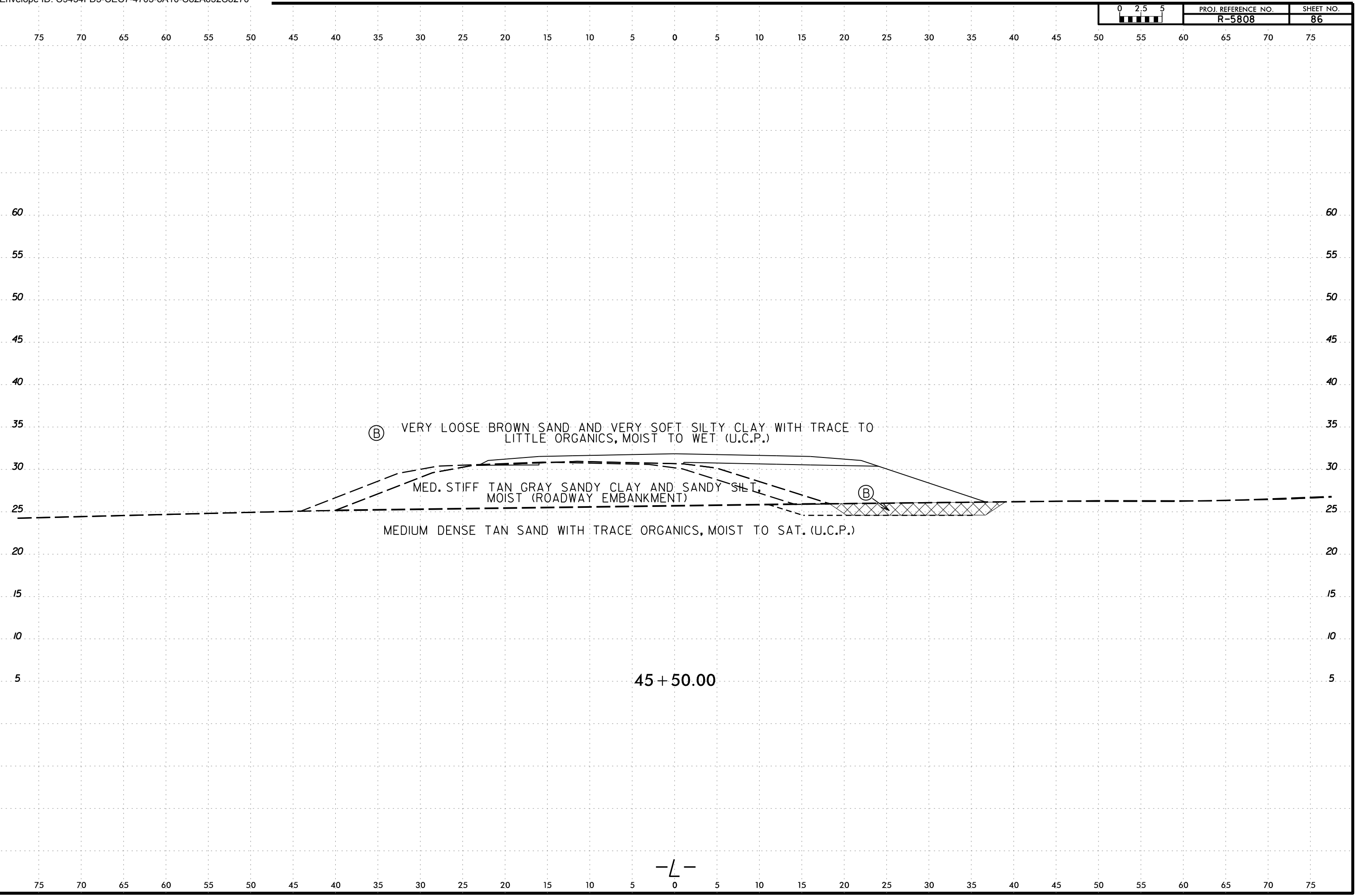
03/22

-L-

21-MAY-2024 16:45  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\VR5808L\_Geo\_XSR.dgn  
 jstone

6/23/16

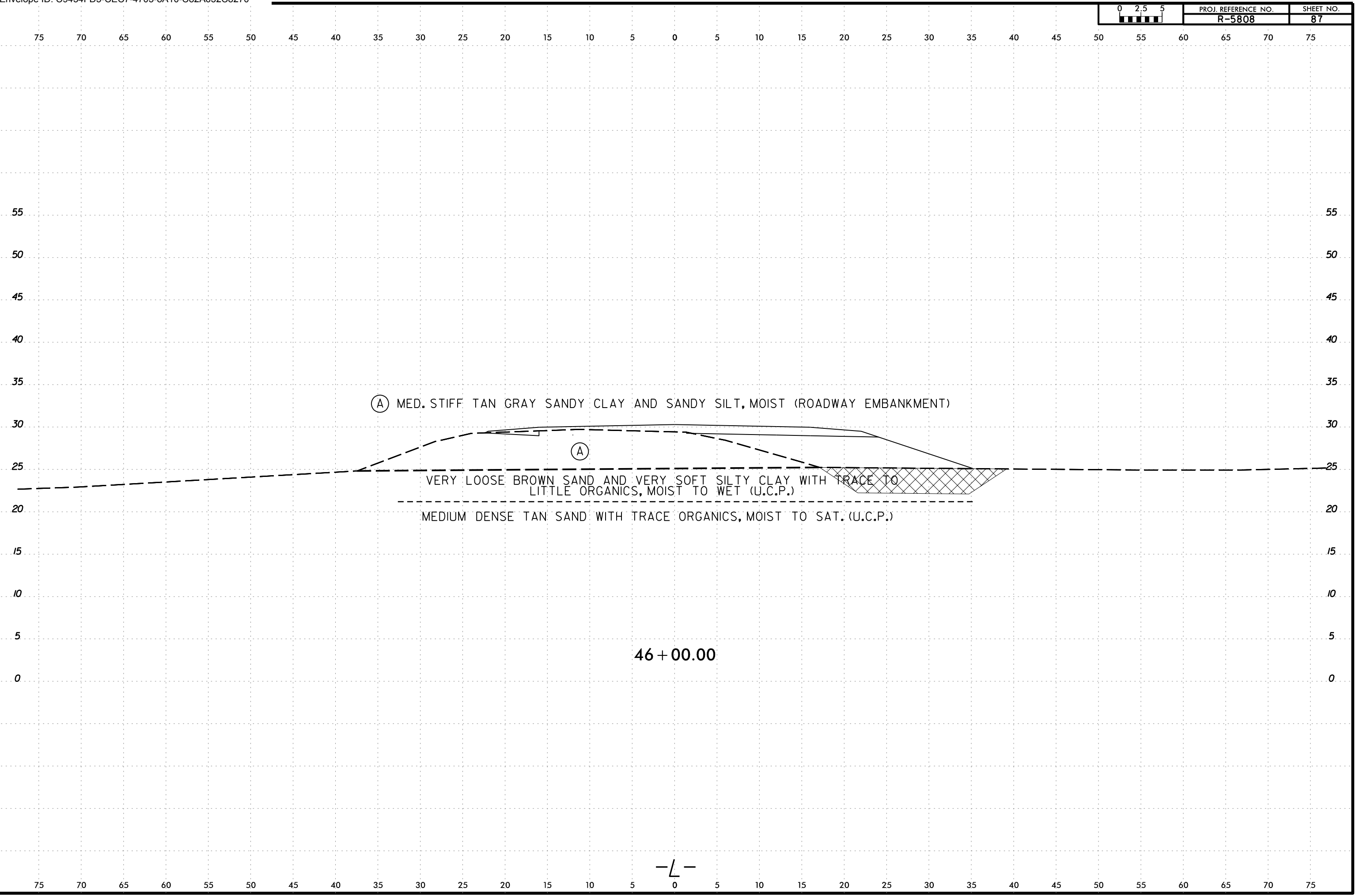
6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn



45 + 50.00

-L-

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



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

(A)

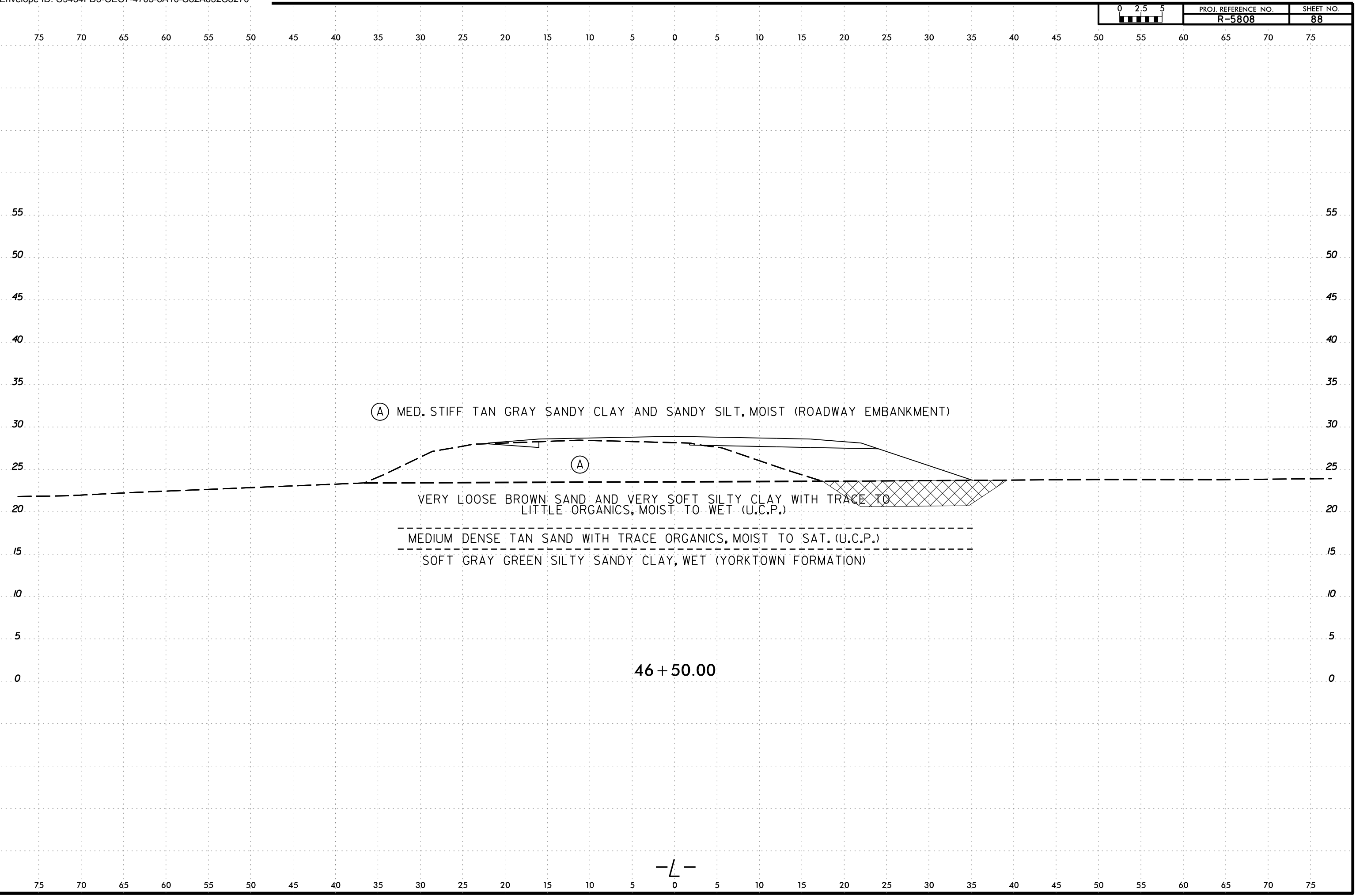
VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

46 + 00.00

-L-

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone



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

(A)

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

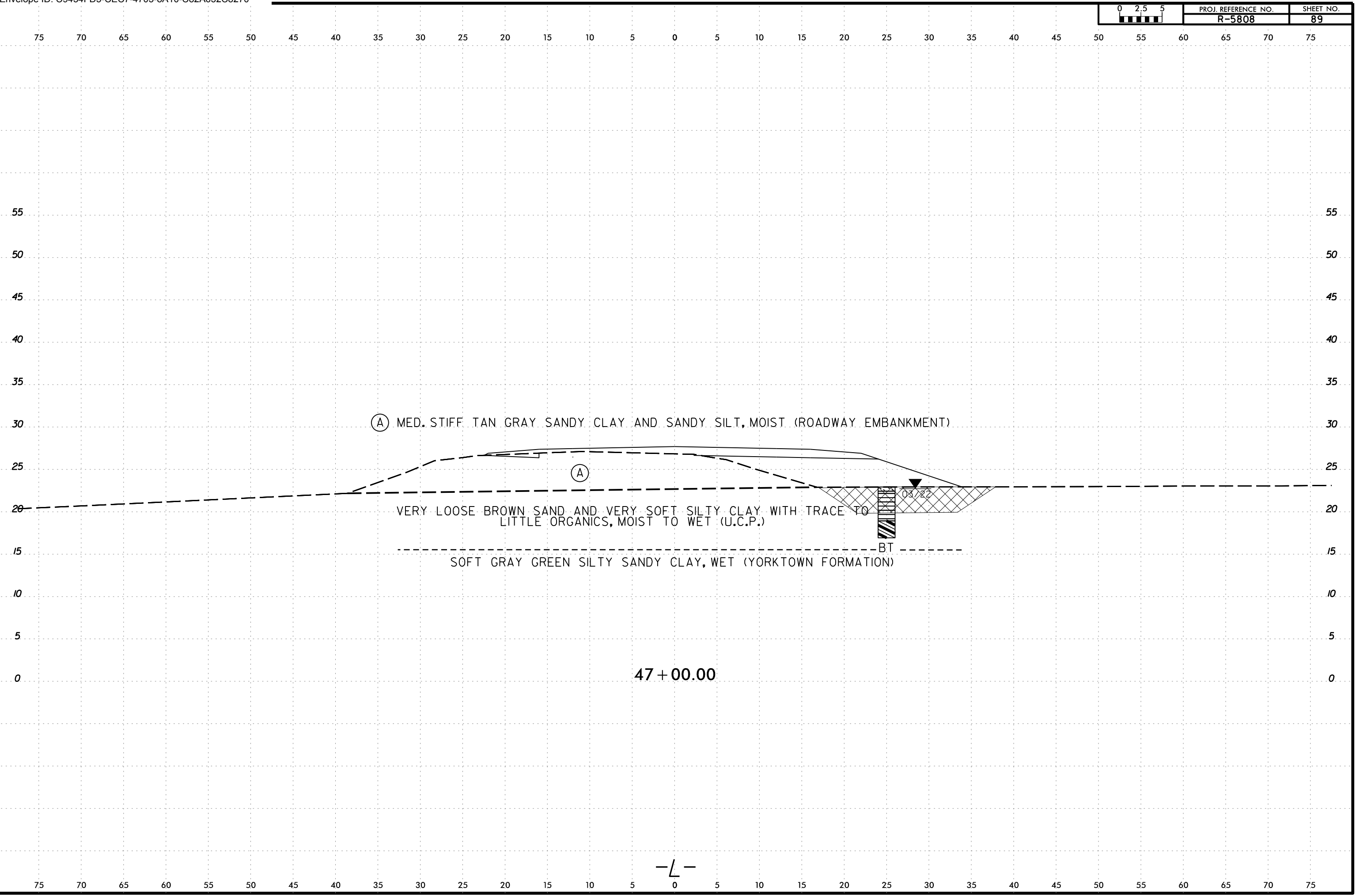
SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

46 + 50.00

-L-



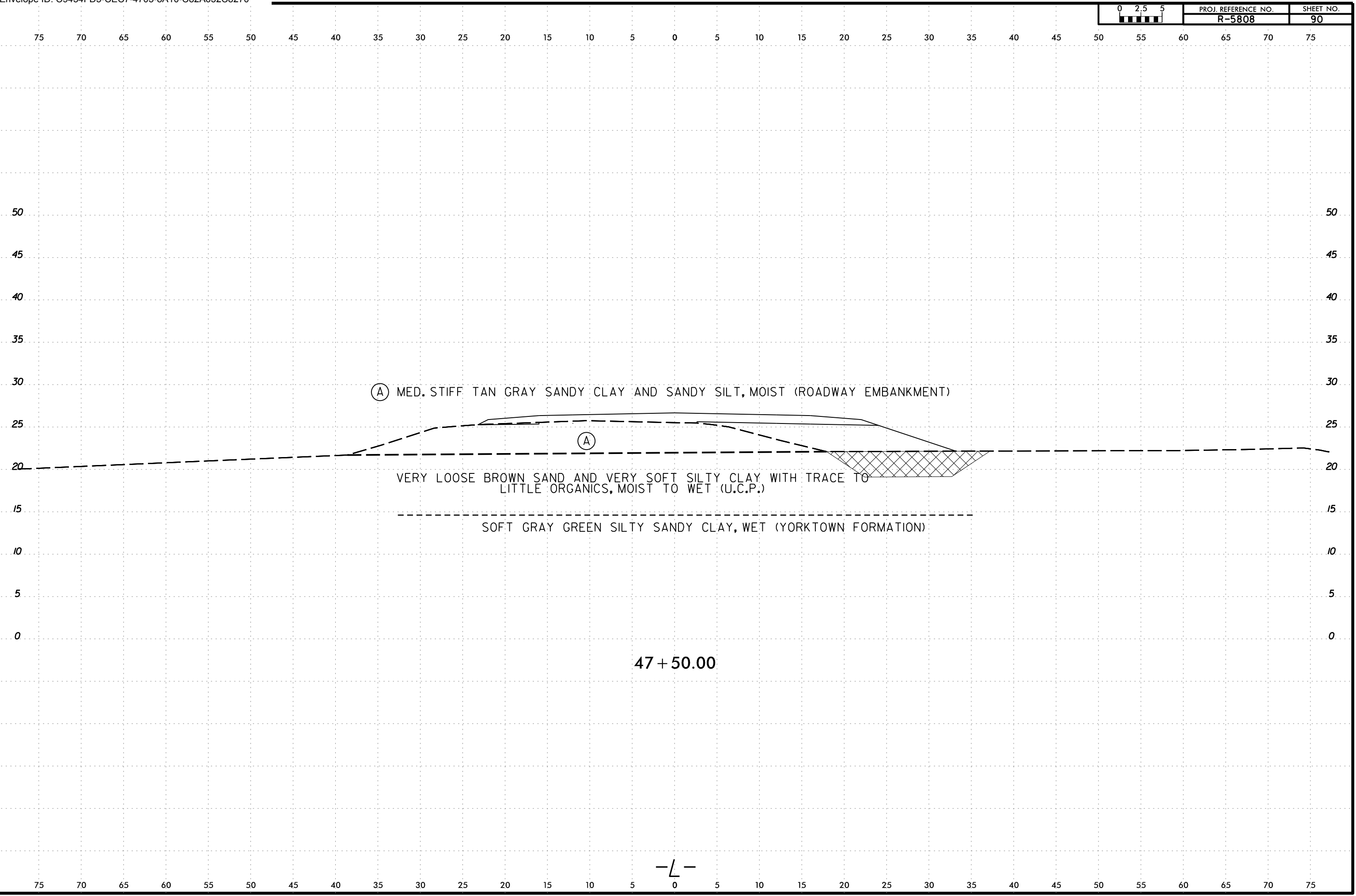
6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\VR5808L\_Geo\_XSR.dgn  
jstone



47 + 00.00

-L-

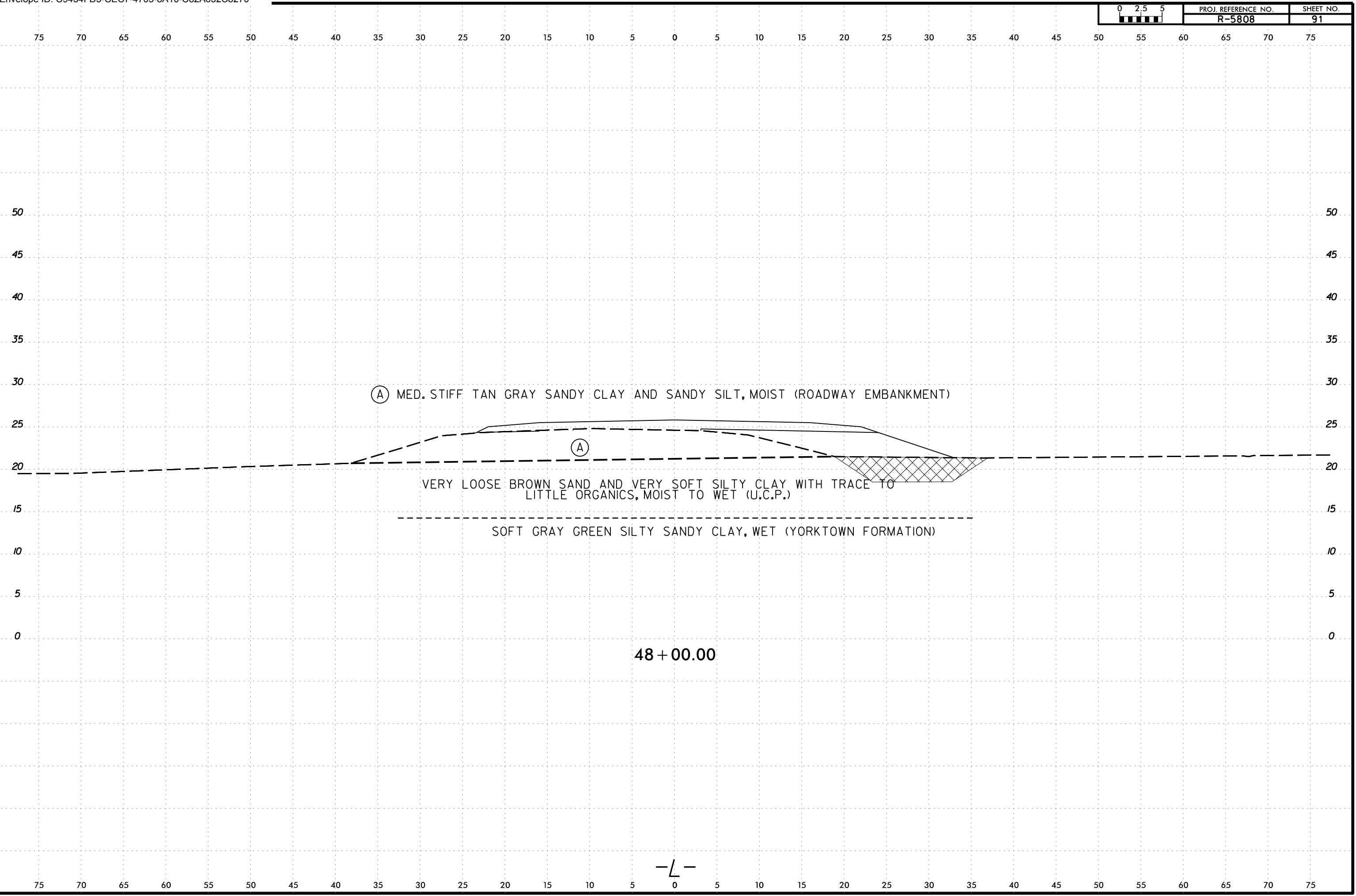
6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn



47 + 50.00

-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
LSTONE



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

(A)

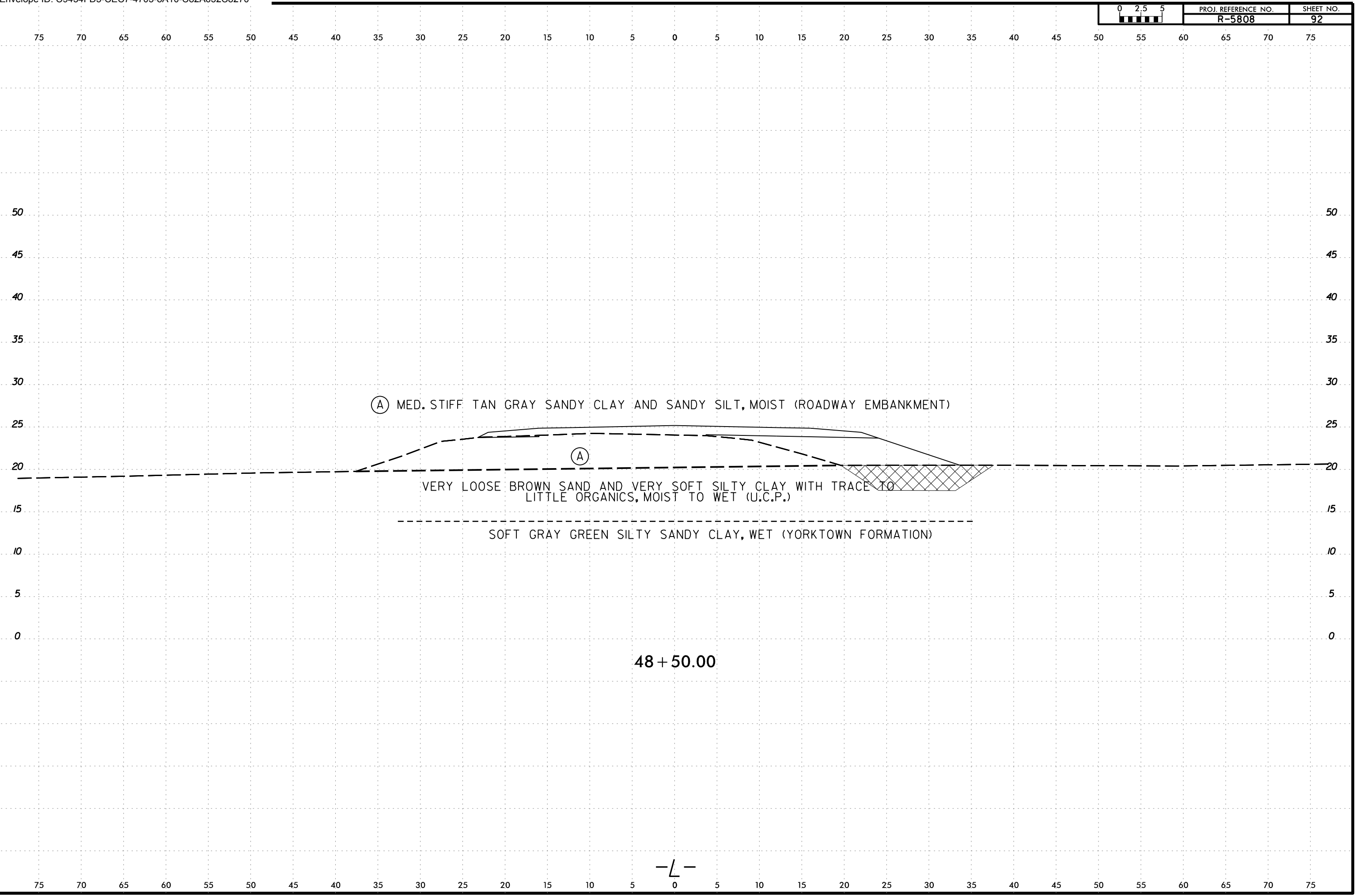
VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

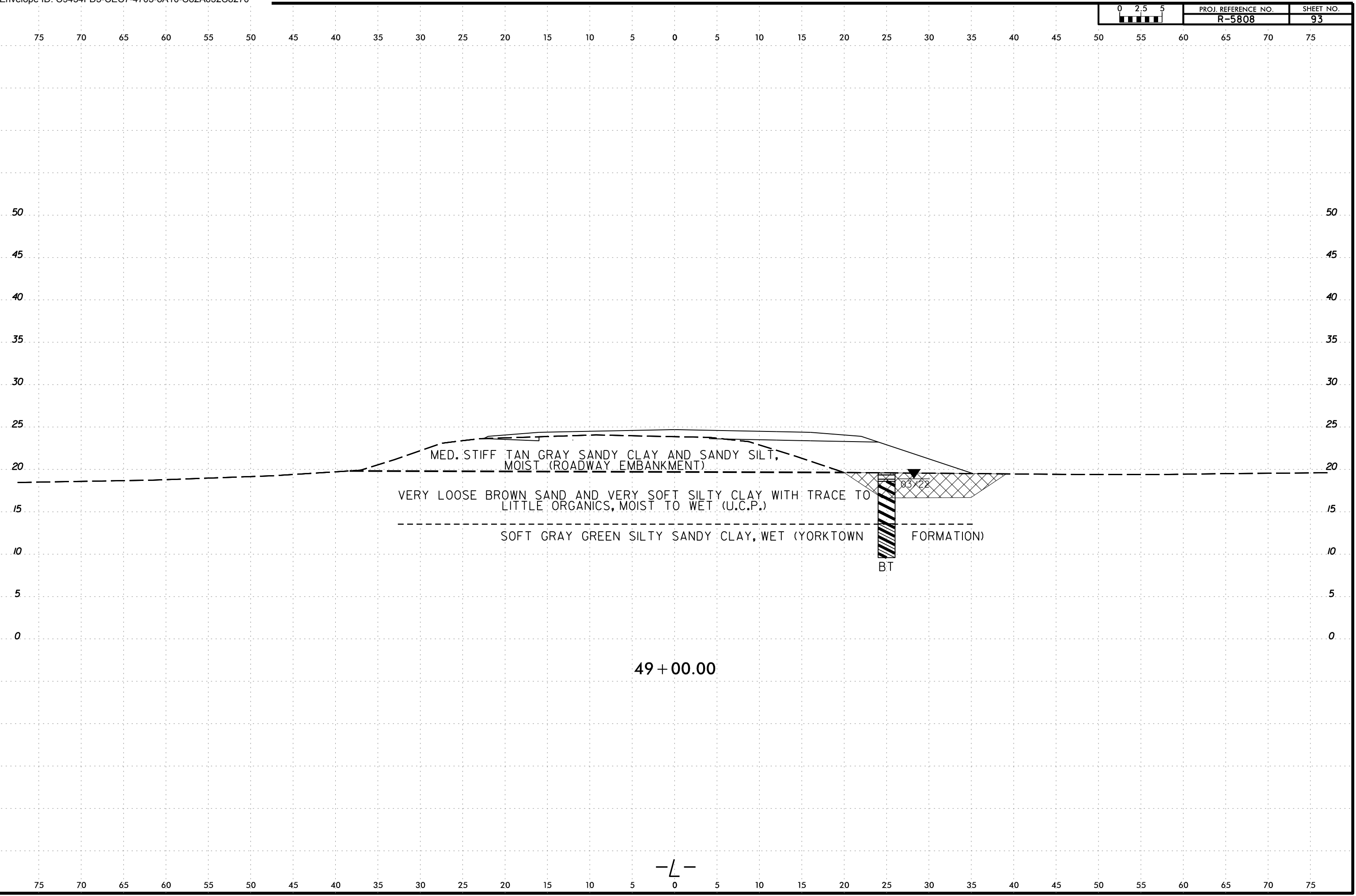
48 + 00.00

-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



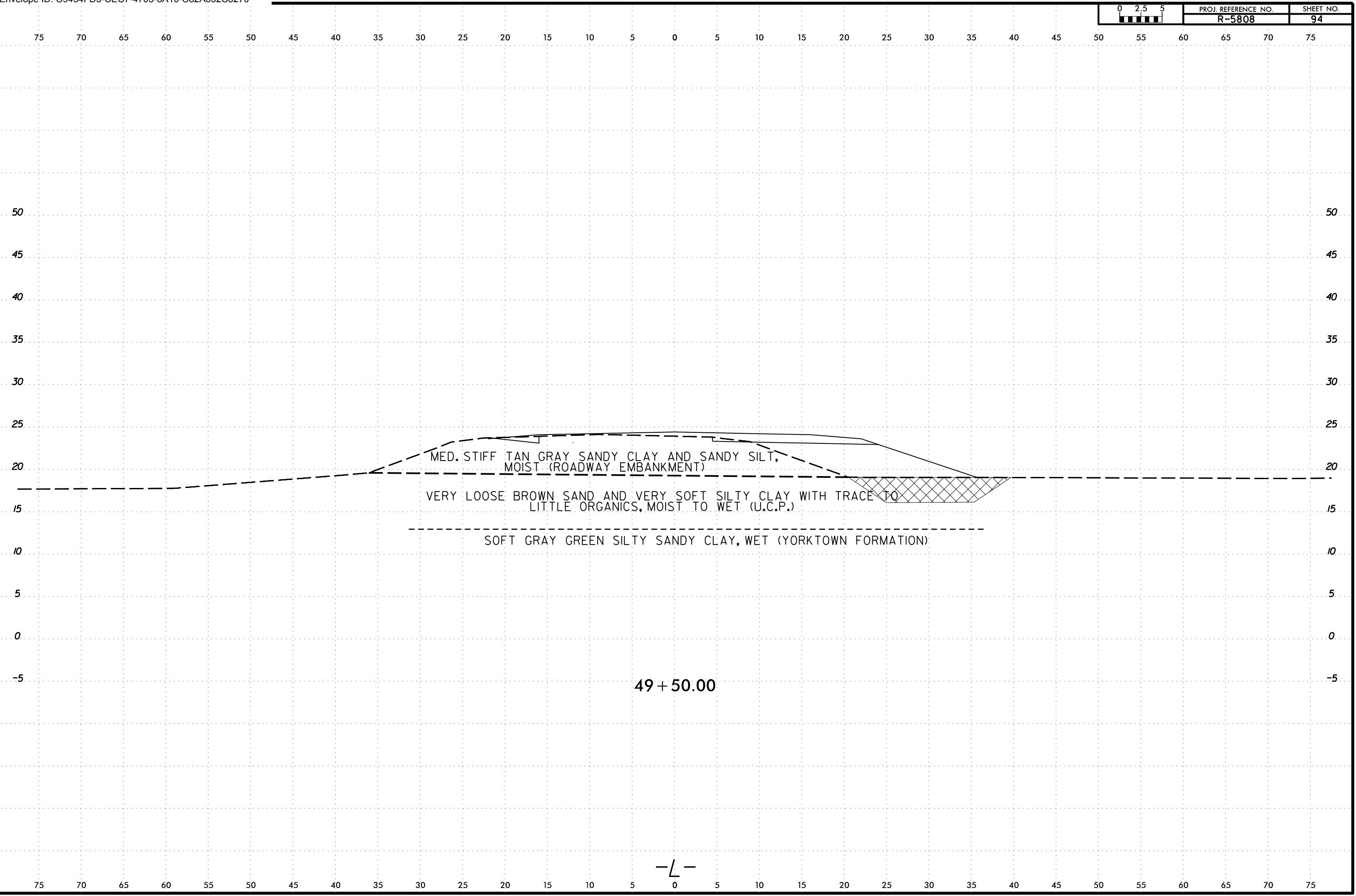
6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone



49 + 00.00

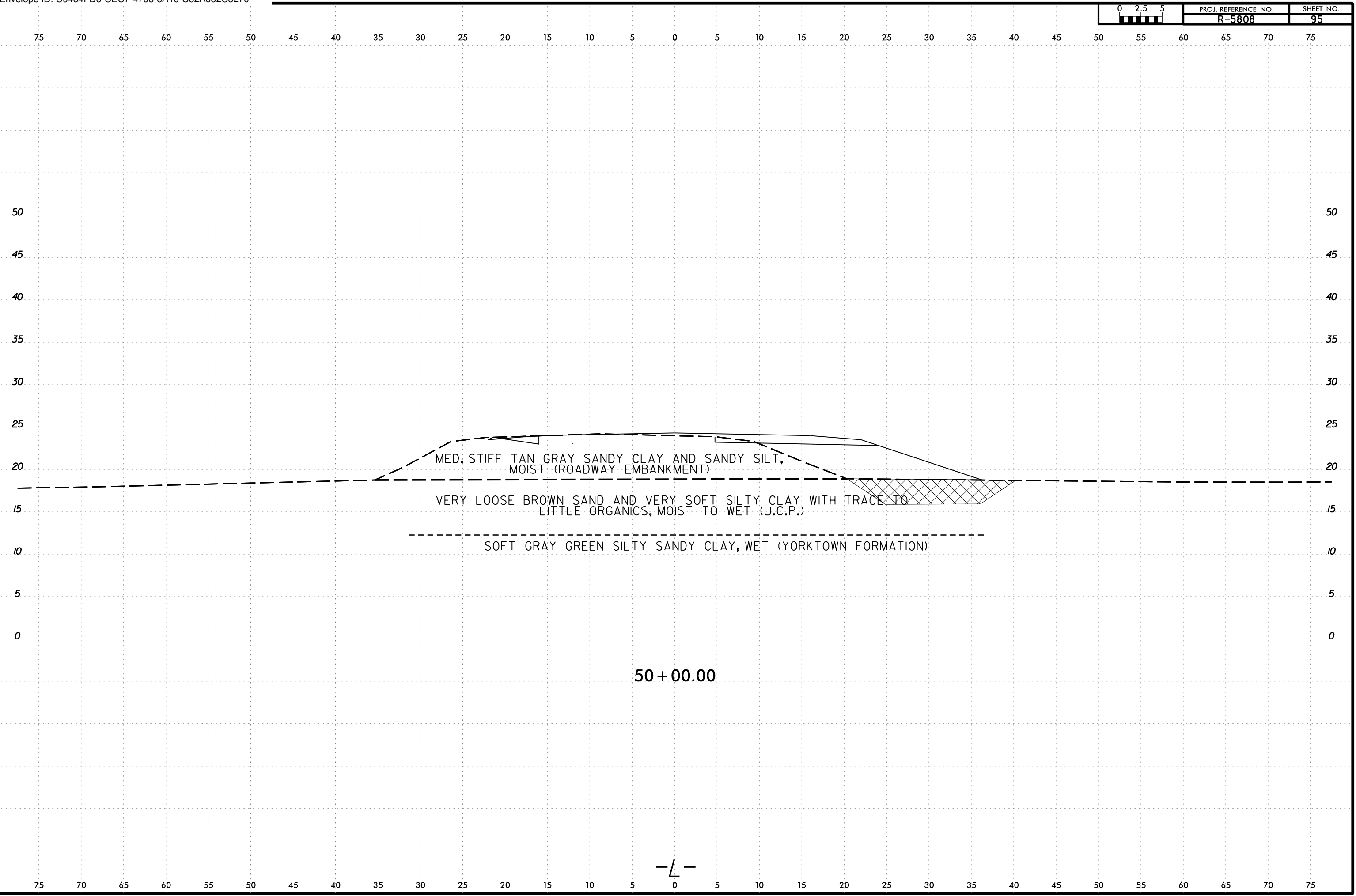
—L—

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

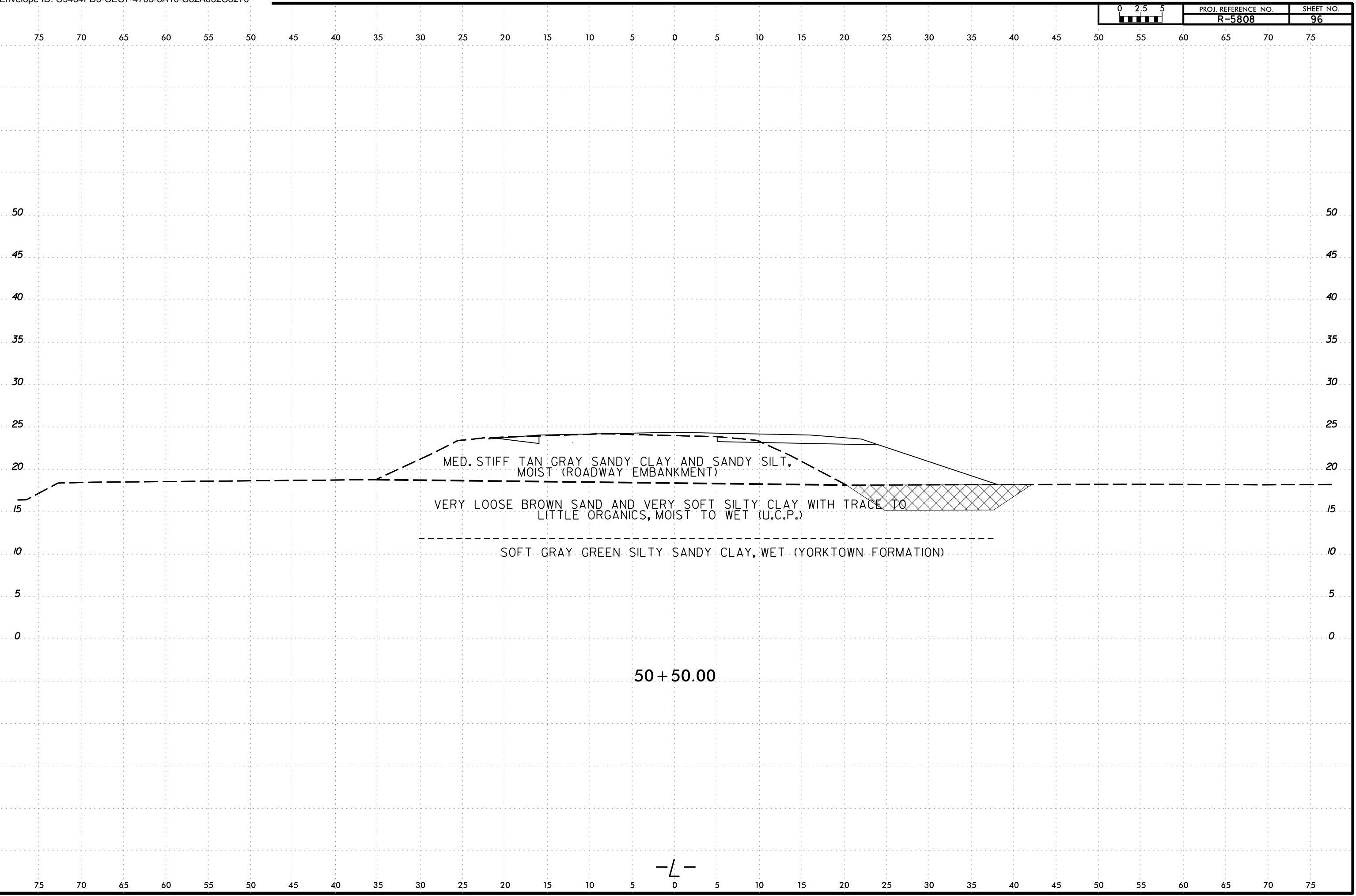


—L—

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

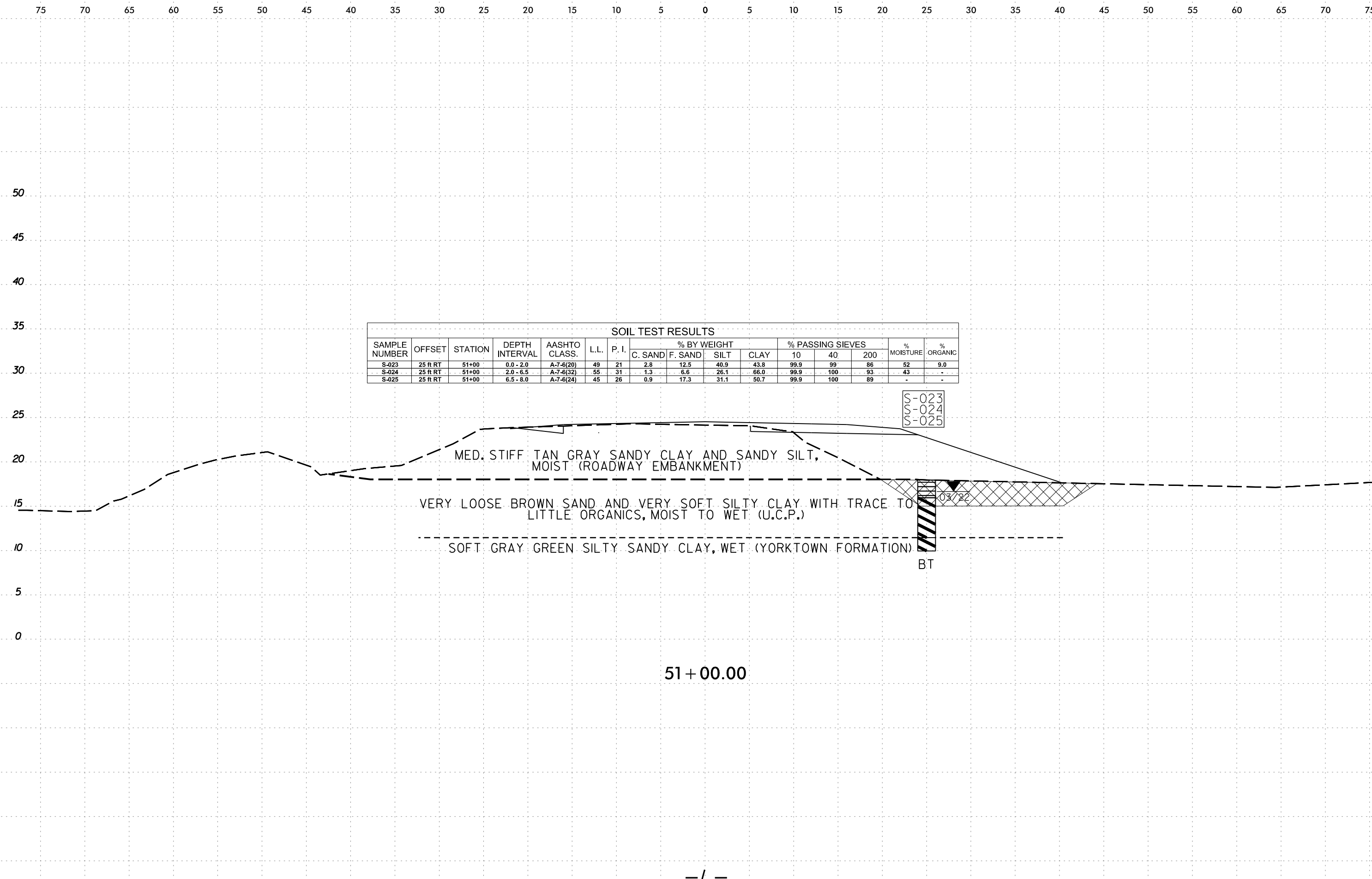


6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808\_GEO\_XSR.dgn  
jstone





2-MAY-2024 16:45  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR.dgn  
 jstone AT CAT-1 STONE-18



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-023	25 ft RT	51+00	0.0 - 2.0	A-7-6(20)	49	21		
S-024	25 ft RT	51+00	2.0 - 6.5	A-7-6(32)	55	31	1.3	6.6	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	-	-

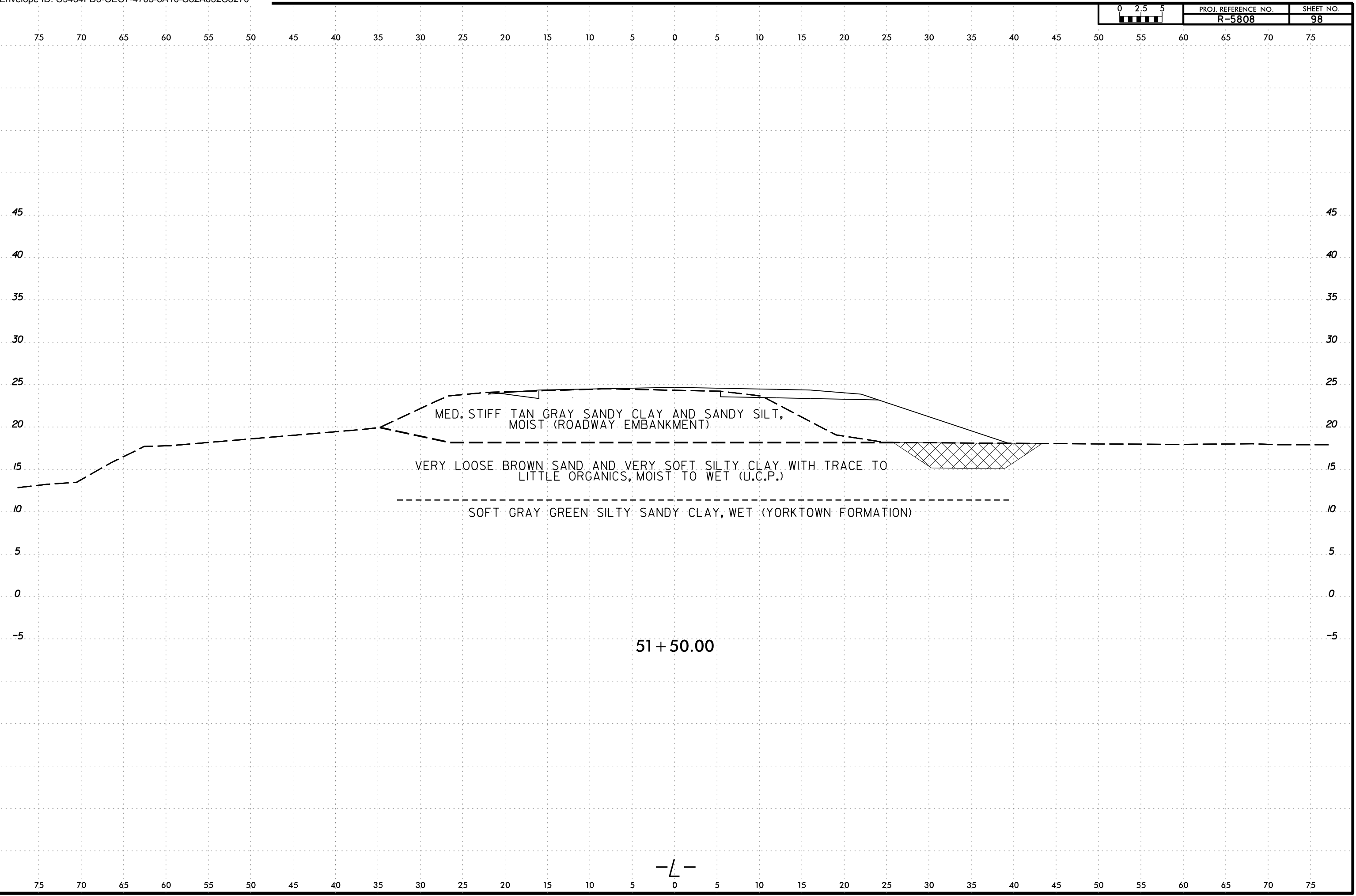
S-023  
S-024  
S-025

03/22  
BT

51 + 00.00

-L-

6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR.dgn  
ISTONE  
AT CAT-1 STONE-18

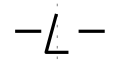


MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT,  
MOIST (ROADWAY EMBANKMENT)

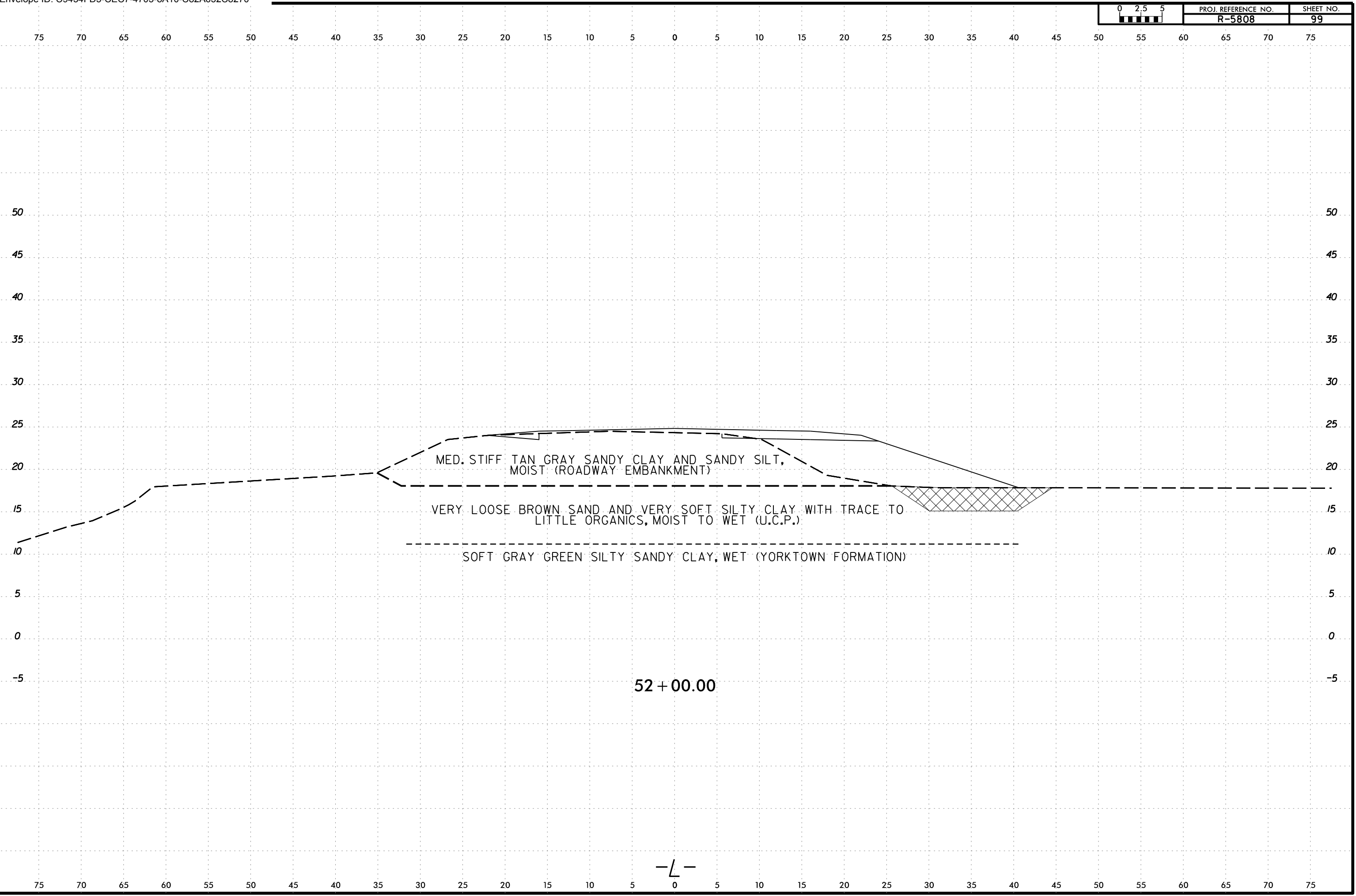
VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO  
LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

51 + 50.00

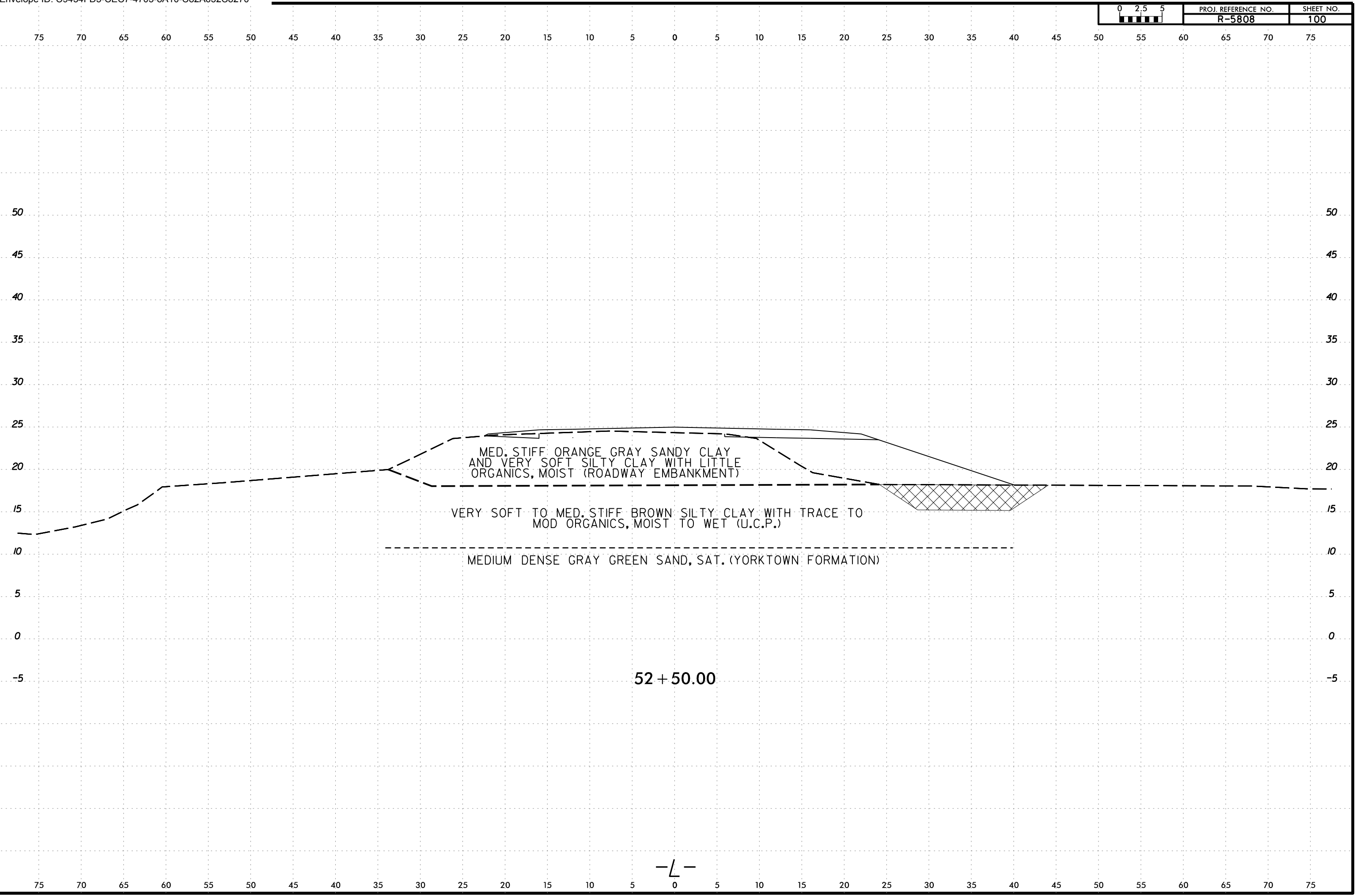


6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR.dgn  
jstone



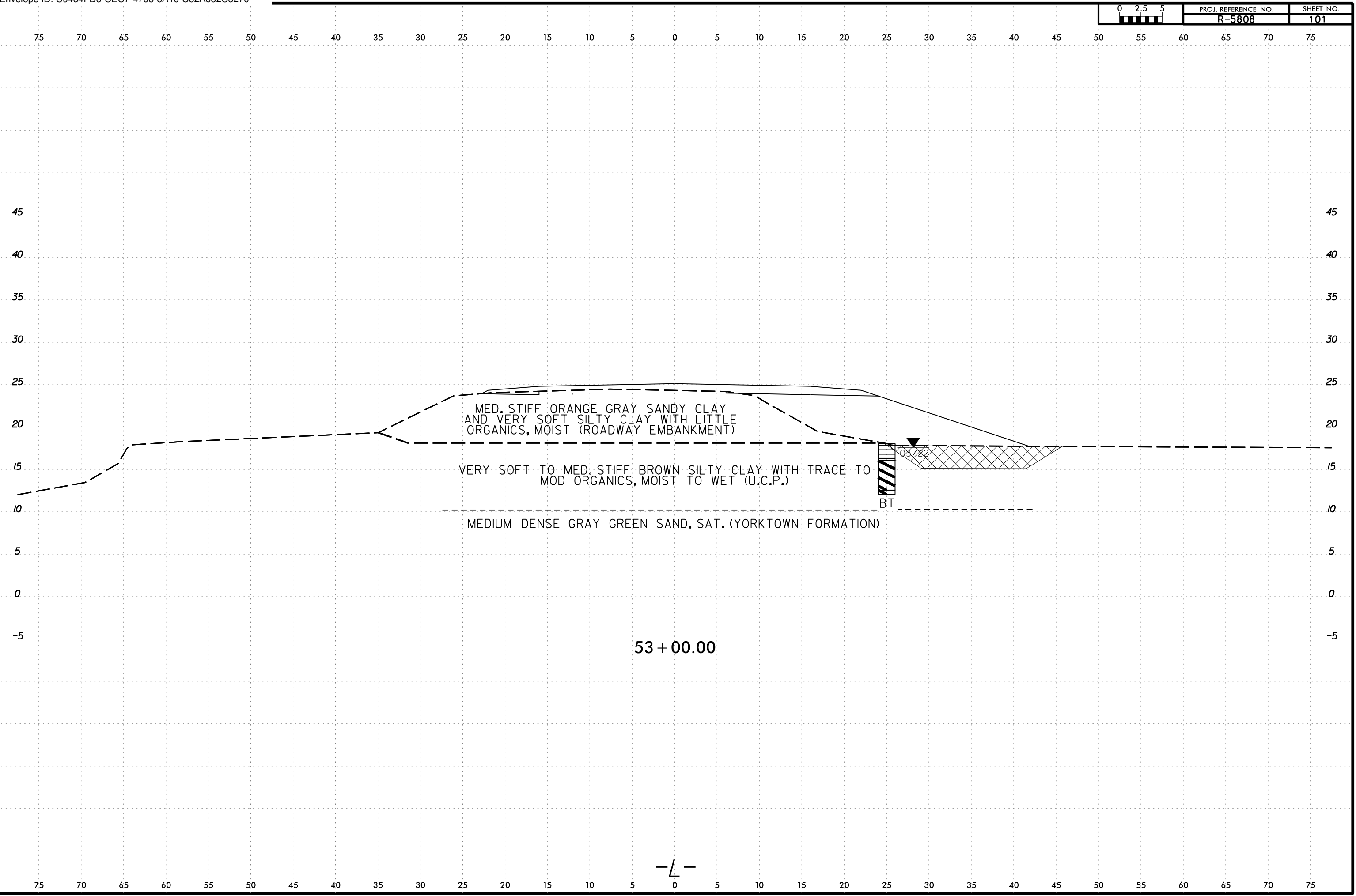
-L-

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
STONE-18

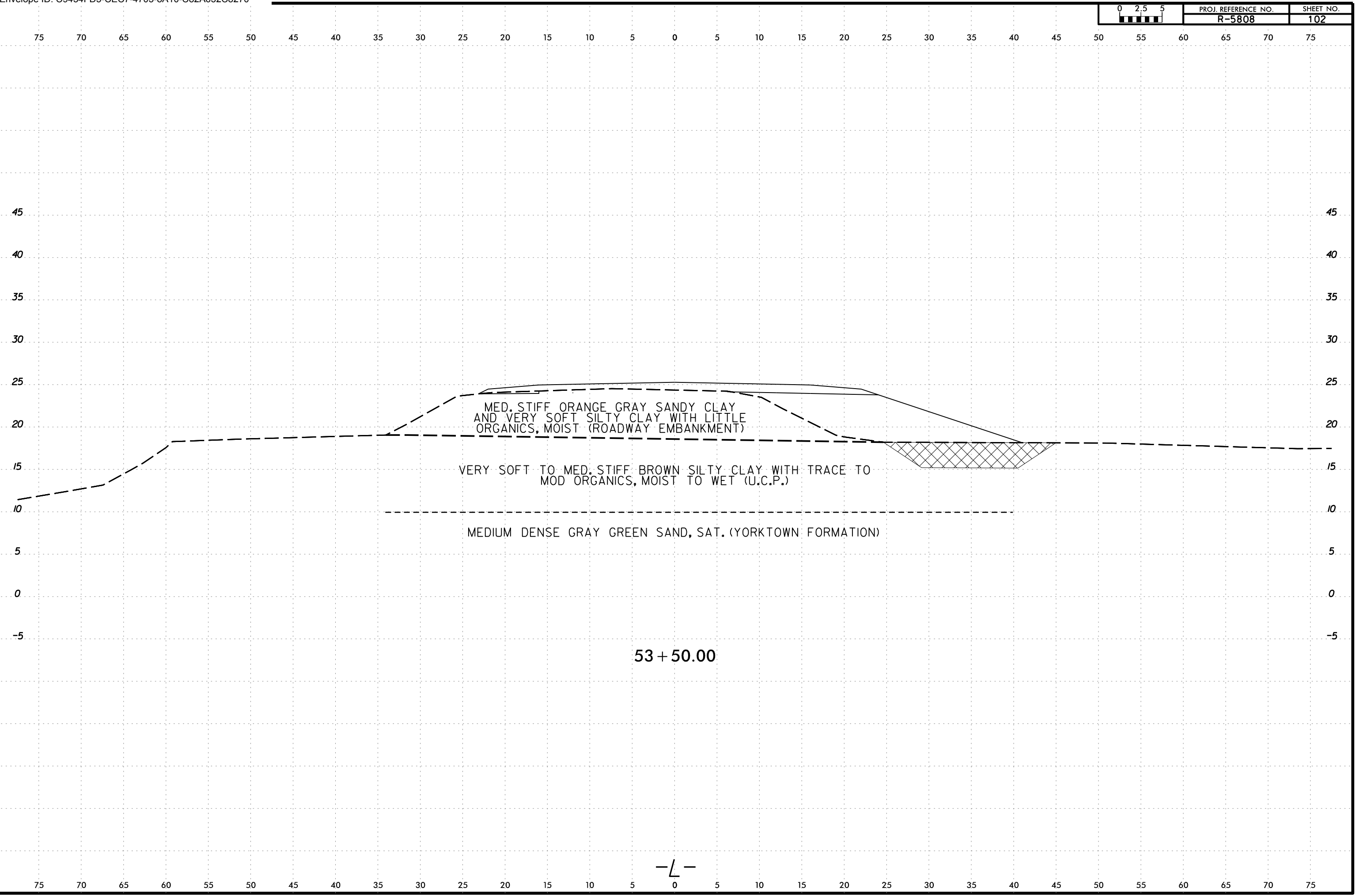


—L—

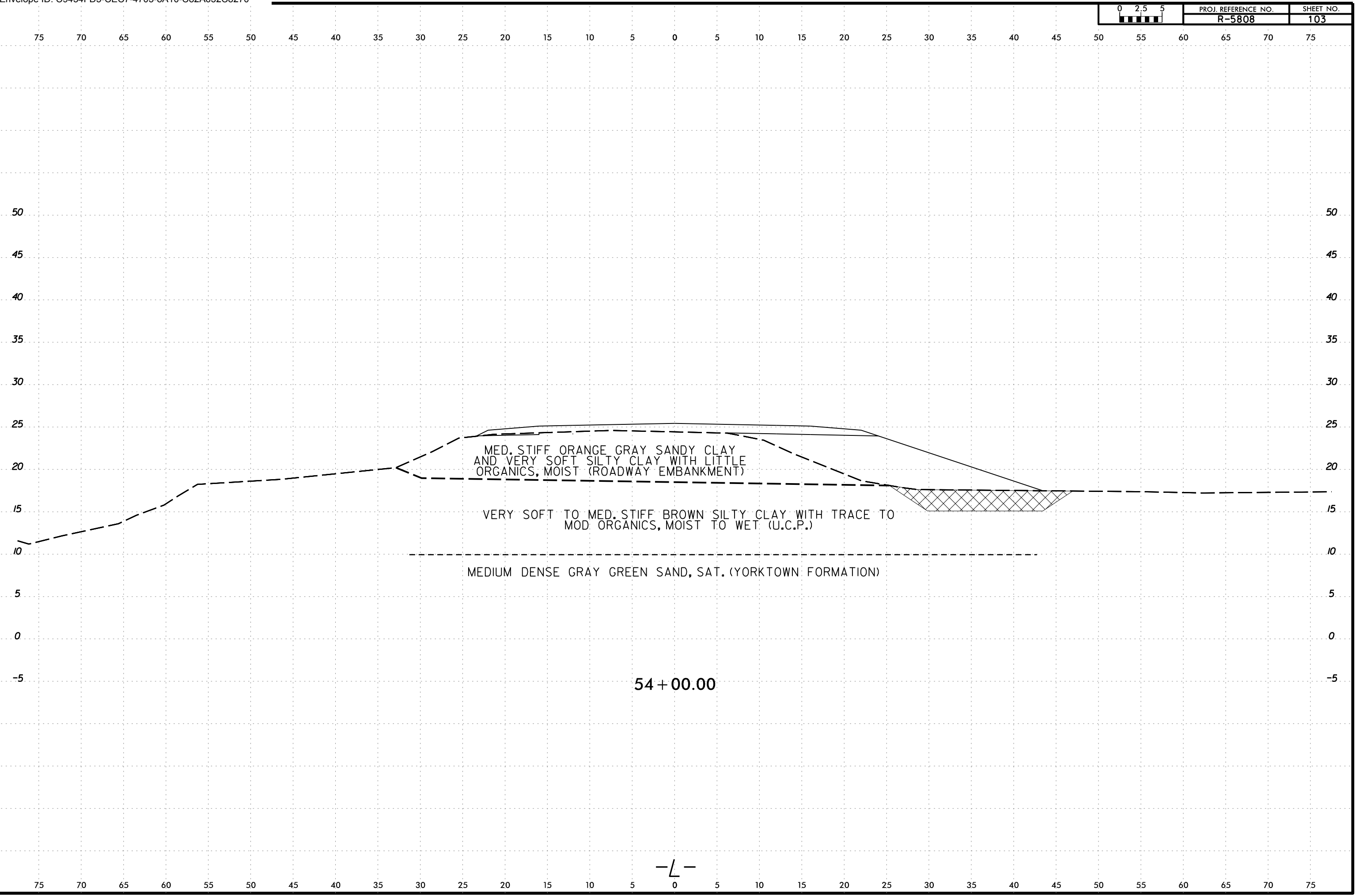
6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
STONE-18



6/23/16  
21MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
STONE-18

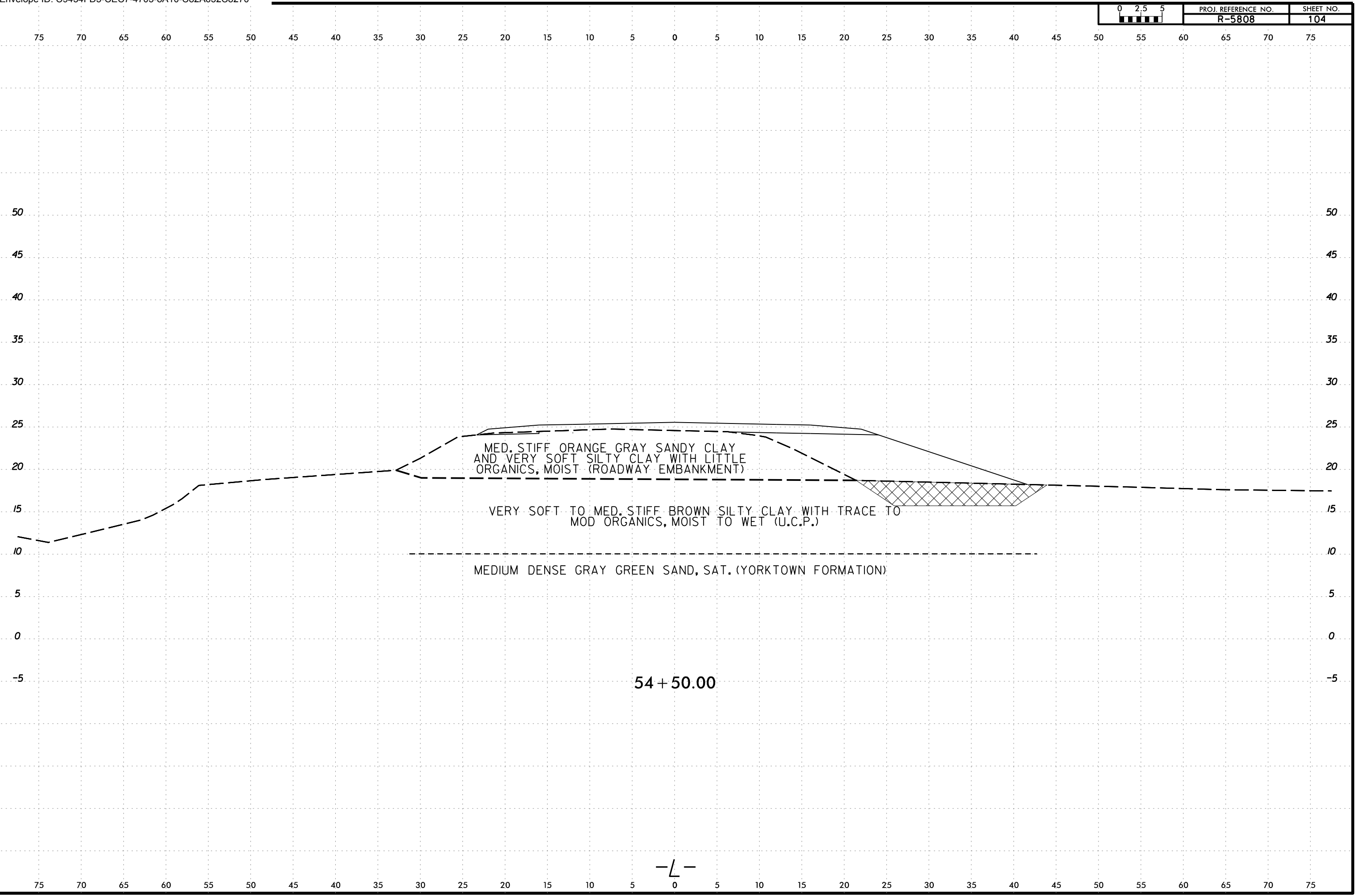


6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
STONE  
AT  
CAT-1



—L—

6/23/16  
21-MAY-2024 16:45  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

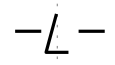


MED. STIFF ORANGE GRAY SANDY CLAY  
AND VERY SOFT SILTY CLAY WITH LITTLE  
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO  
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

54 + 50.00





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-056	25 ft RT	55+00	3.4 - 4.4	-	49	20	-	-	-	-	NEM	NEM	NEM	-	11.8
SS-057	25 ft RT	55+00	4.4 - 5.4	A-6(14)	39	20	1.6	31.7	27.2	39.5	99.9	100	75	-	-
SS-058	25 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	25 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	25 ft RT	55+00	18.5 - 20.0	A-2-4(0)	NP	NP	29.7	60.1	5.2	5.0	100	96	14	-	-

(A) MED. STIFF ORANGE GRAY SANDY CLAY AND VERY SOFT SILTY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

SS-056  
 SS-057  
 SS-058  
 SS-059  
 SS-060

PAVEMENT

VERY SOFT TO MED. STIFF BROWN SILTY MOD ORGANICS, MOIST TO

CLAY WITH TRACE TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

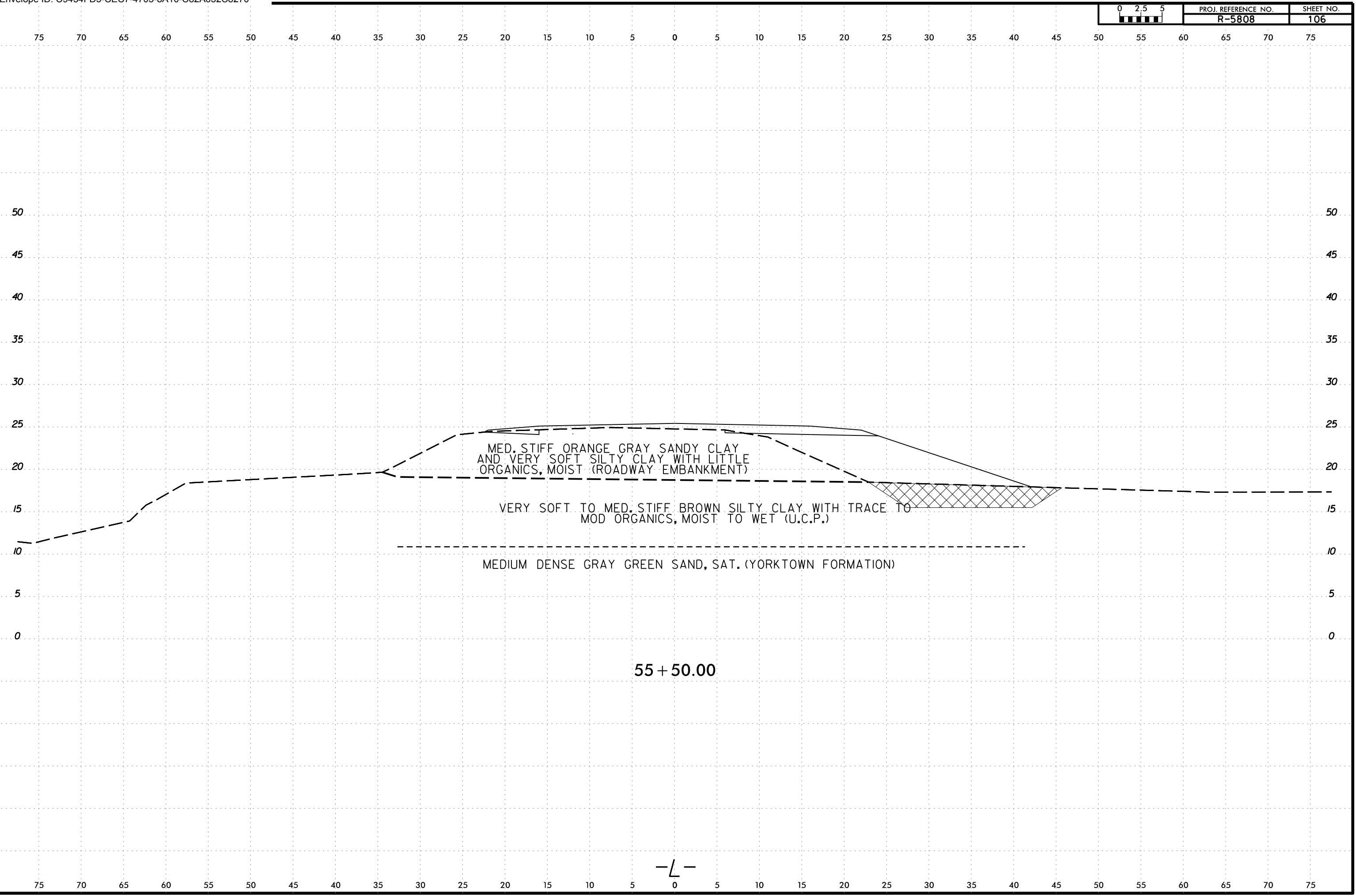
BT  
 FIAD

55 + 00.00

-L-

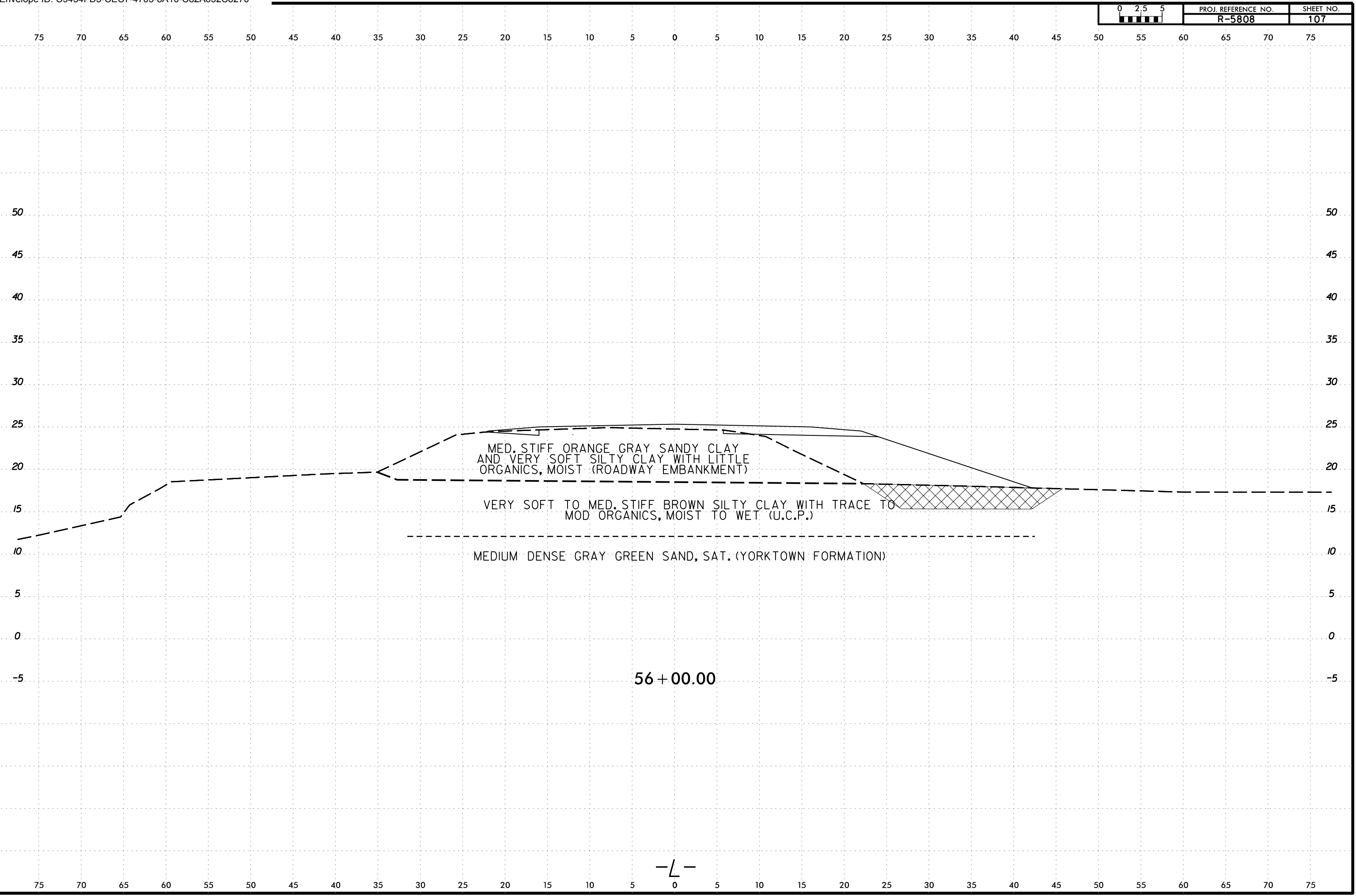
21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\RS808\_GEO\_XSR.dgn  
 jstone

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808\_GEO\_XSR.dgn  
jstone



-L-

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

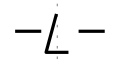


MED. STIFF ORANGE GRAY SANDY CLAY  
AND VERY SOFT SILTY CLAY WITH LITTLE  
ORGANICS, MOIST (ROADWAY EMBANKMENT)

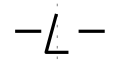
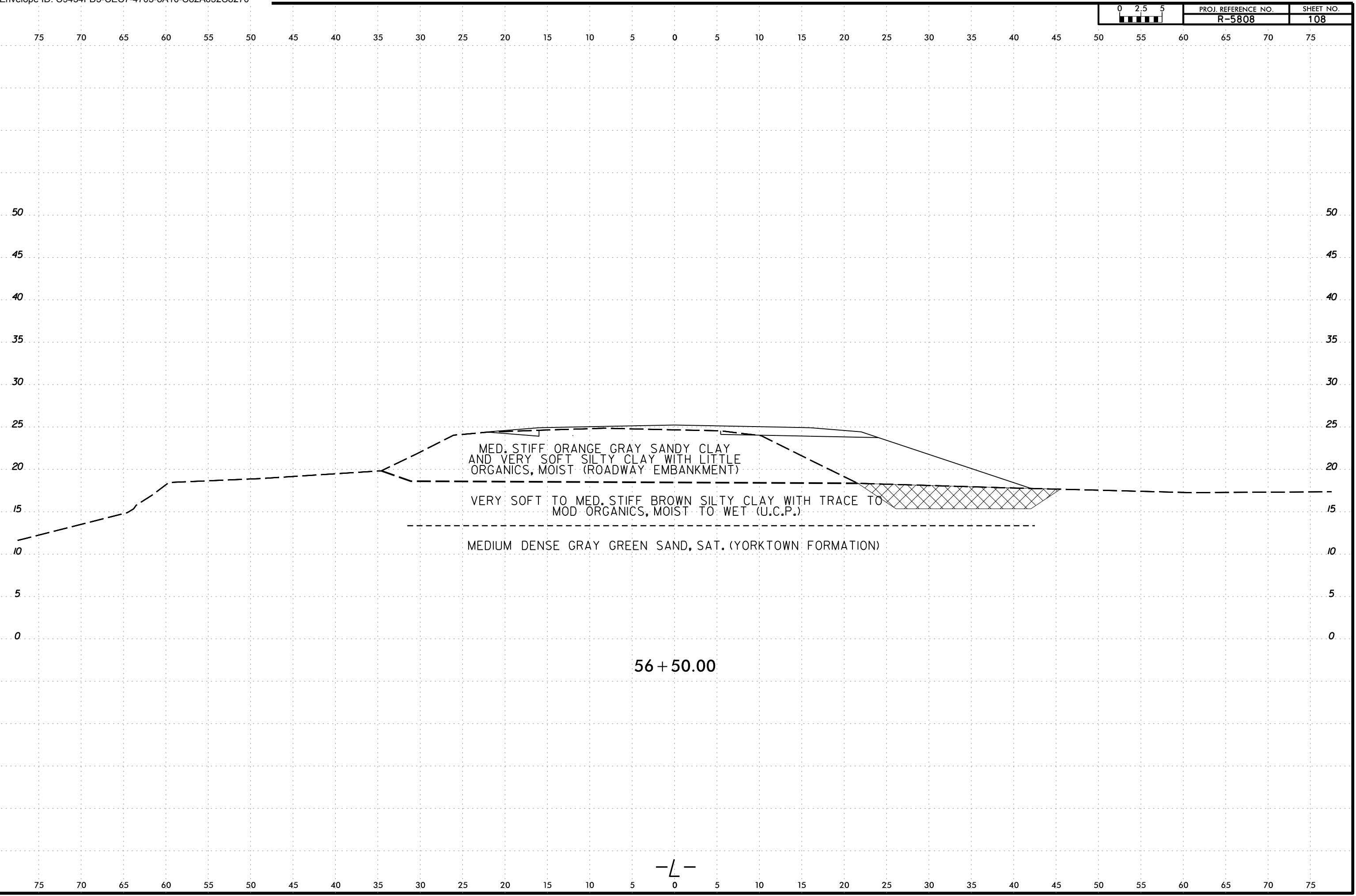
VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO  
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

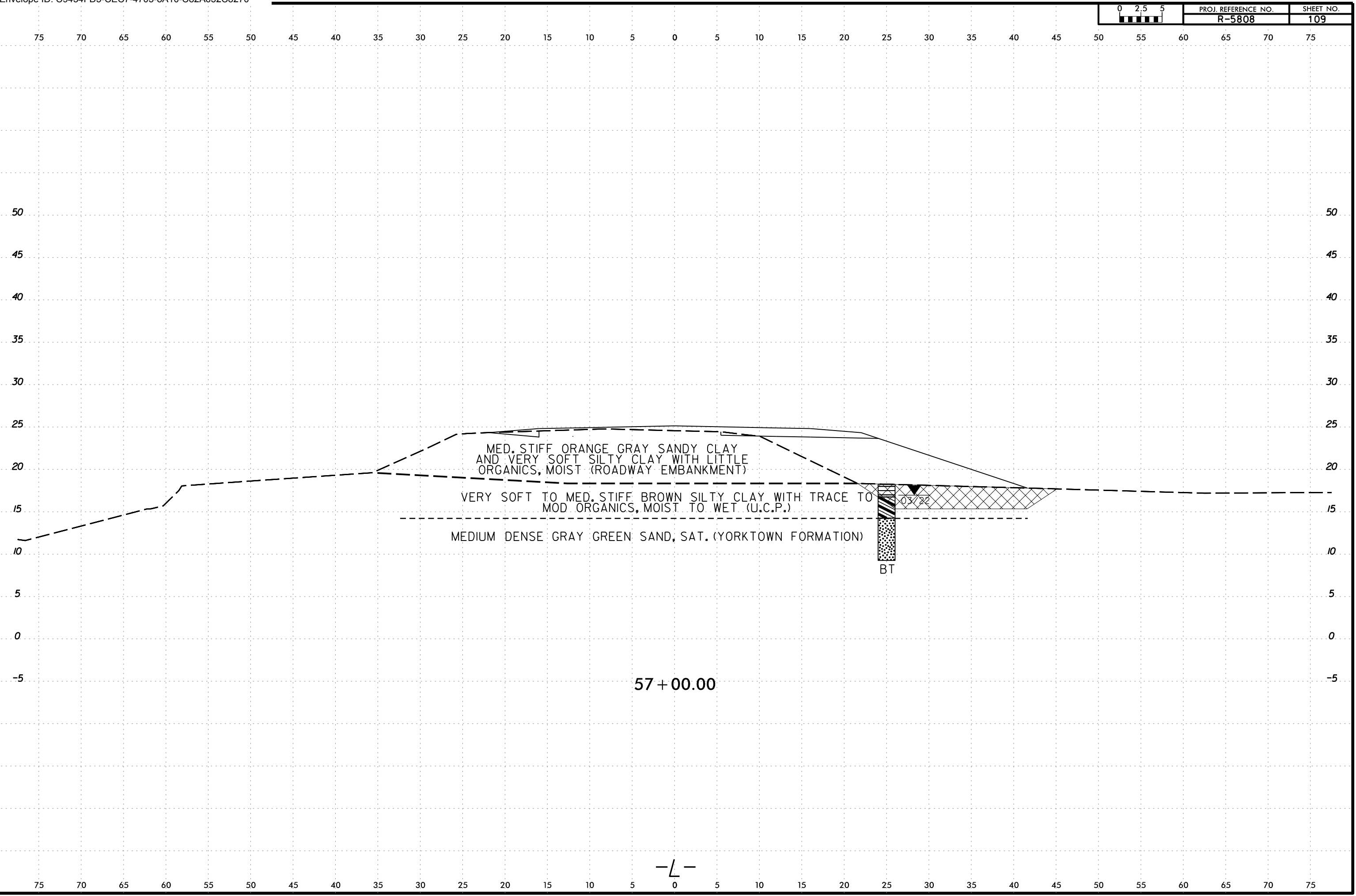
56 + 00.00



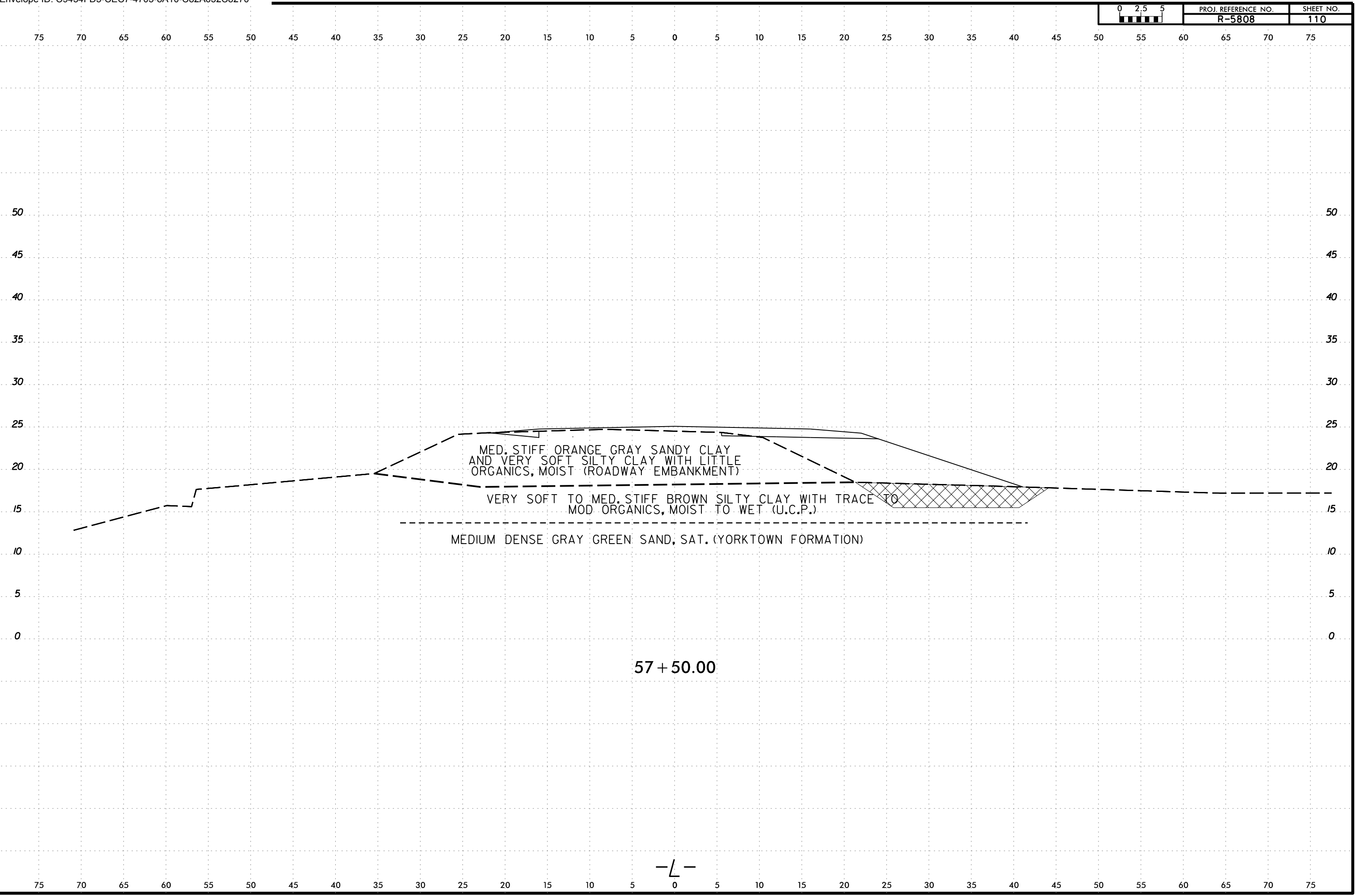
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



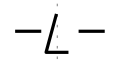
6/23/16  
21-MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



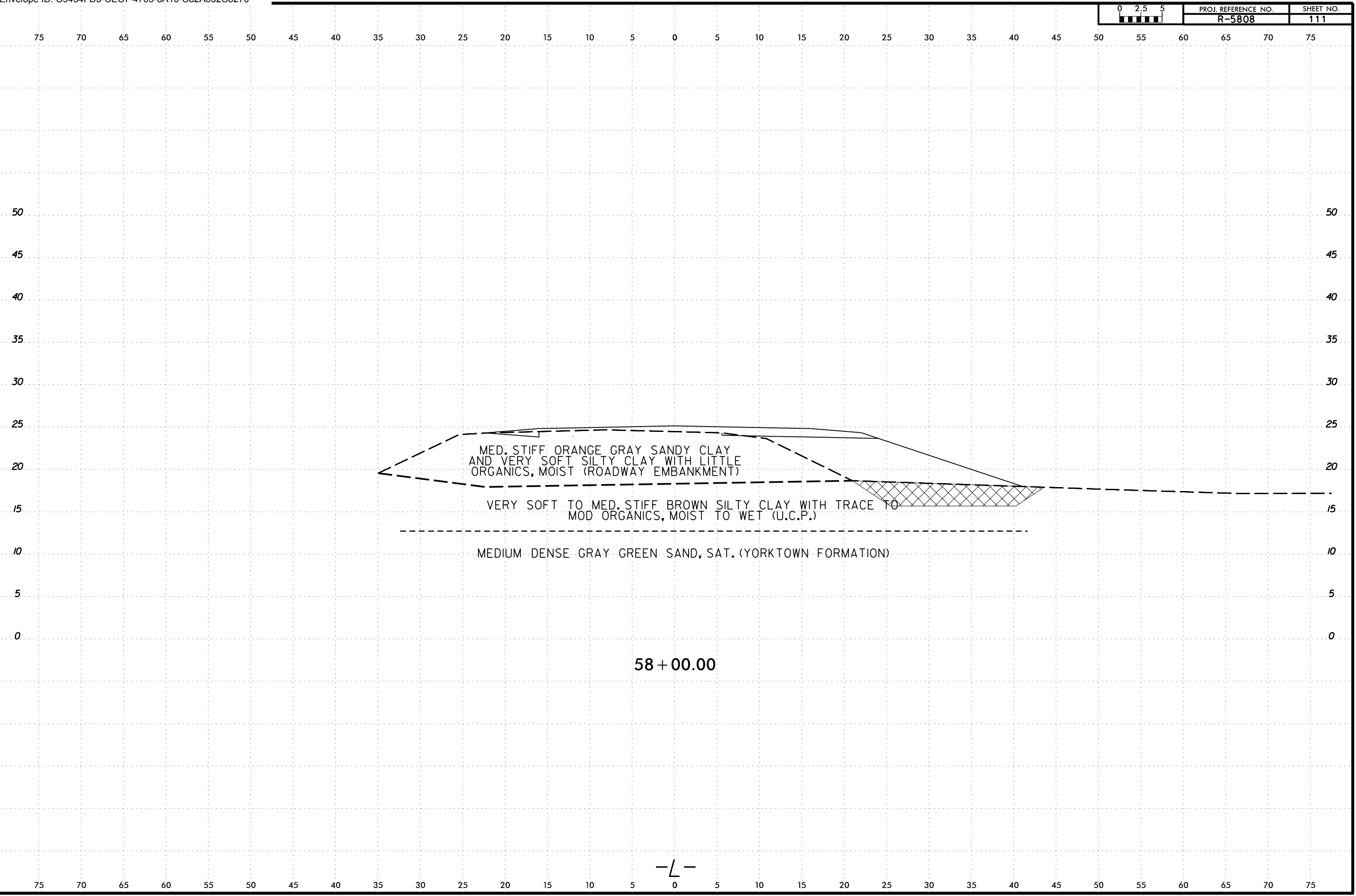
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn  
jstone



57 + 50.00



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR.dgn  
jstone

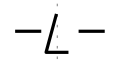


MED. STIFF ORANGE GRAY SANDY CLAY  
AND VERY SOFT SILTY CLAY WITH LITTLE  
ORGANICS, MOIST (ROADWAY EMBANKMENT)

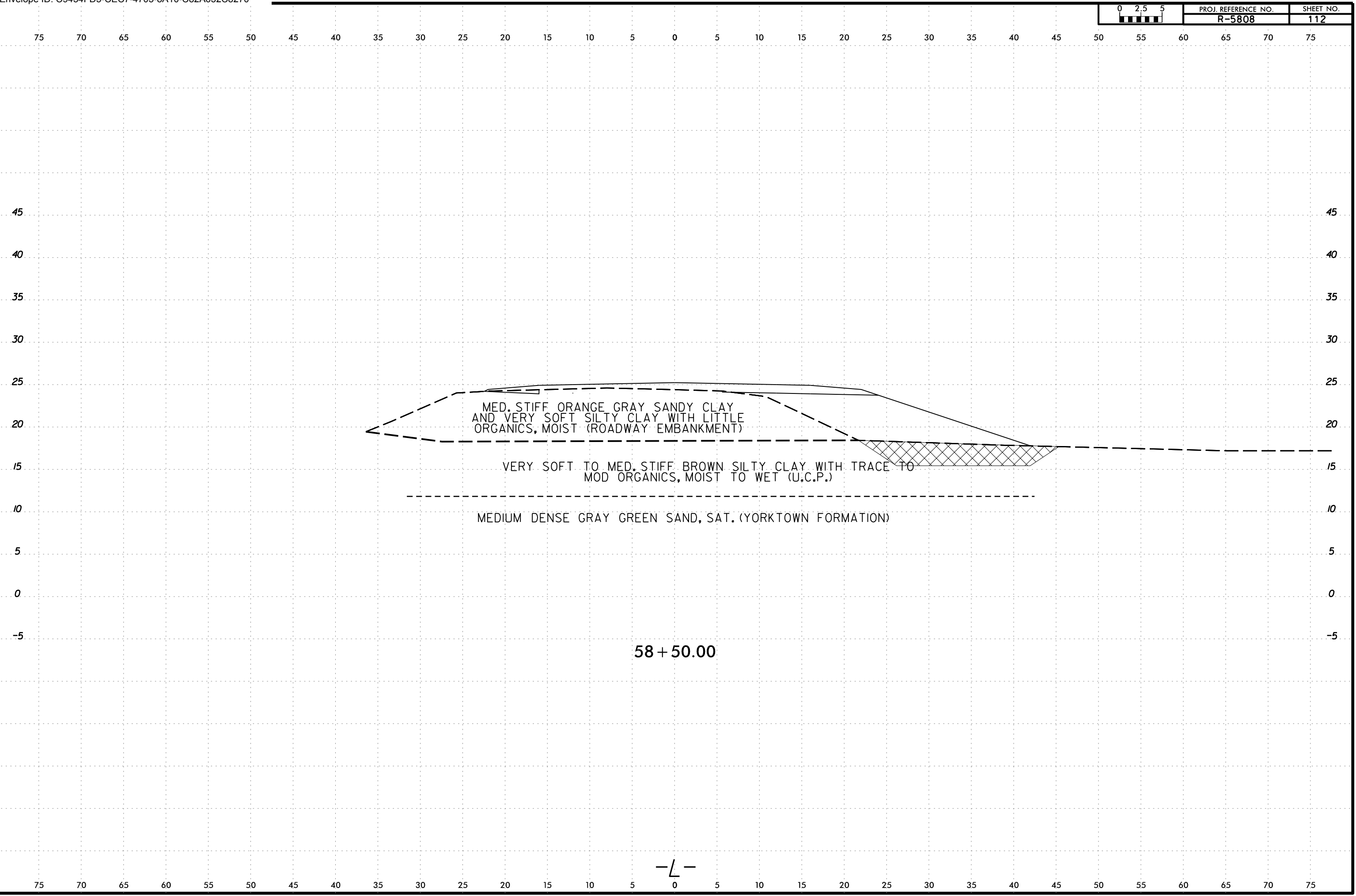
VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO  
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

58 + 00.00



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

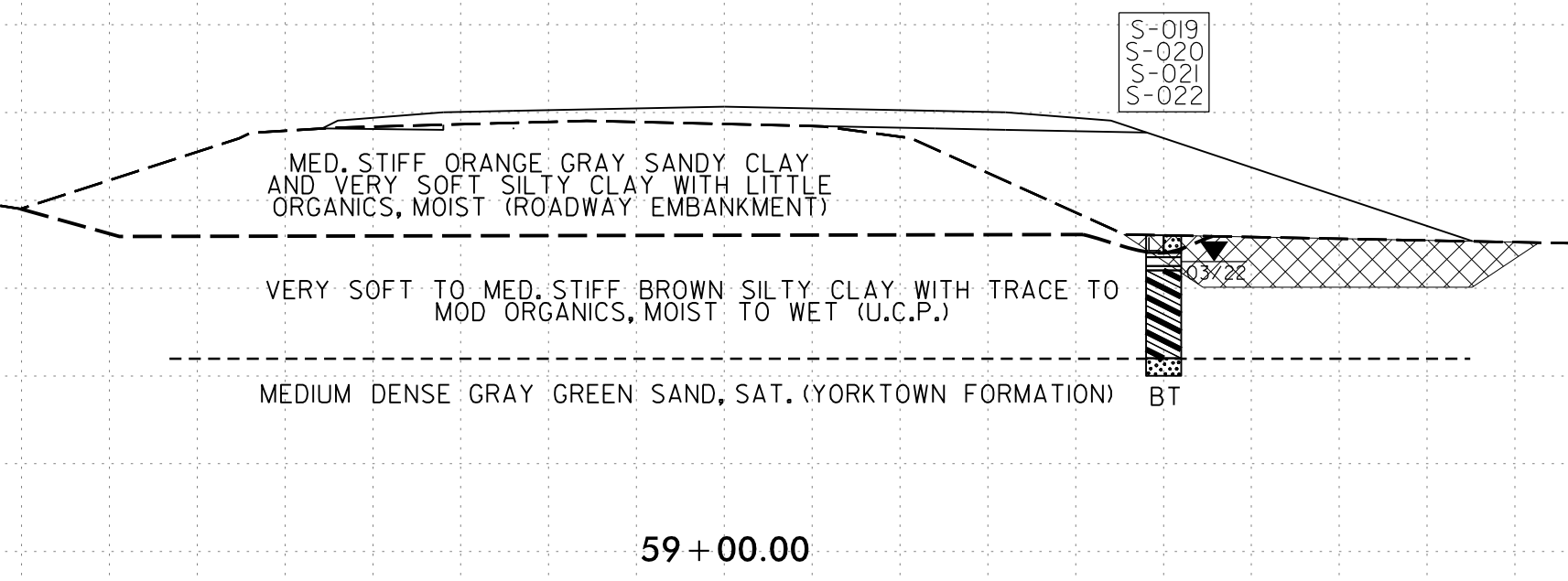


58 + 50.00

-L-

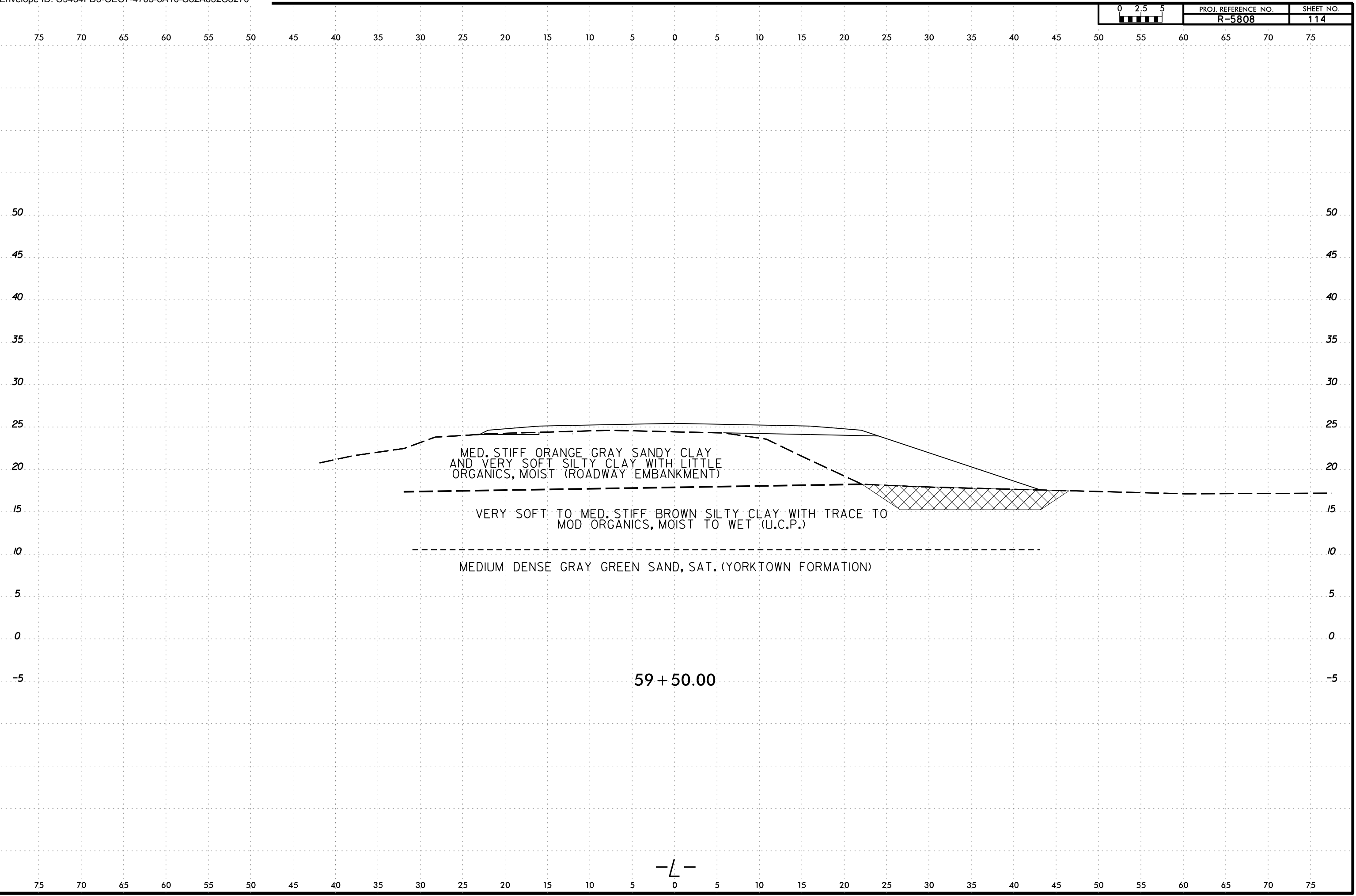


SOIL TEST RESULTS																
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200			
S-019	25 ft RT	59+00	0.0 - 1.0	A-2-4(0)	NP	NP	22.0	57.2	11.2	9.6	99.6	93	24	-	-	
S-020	25 ft RT	59+00	1.0 - 2.0	A-7-6(14)	47	21	4.6	28.3	21.8	45.3	99.9	99	70	48	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	-	-	



21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
 jstone AT CAT-1 STONE-18

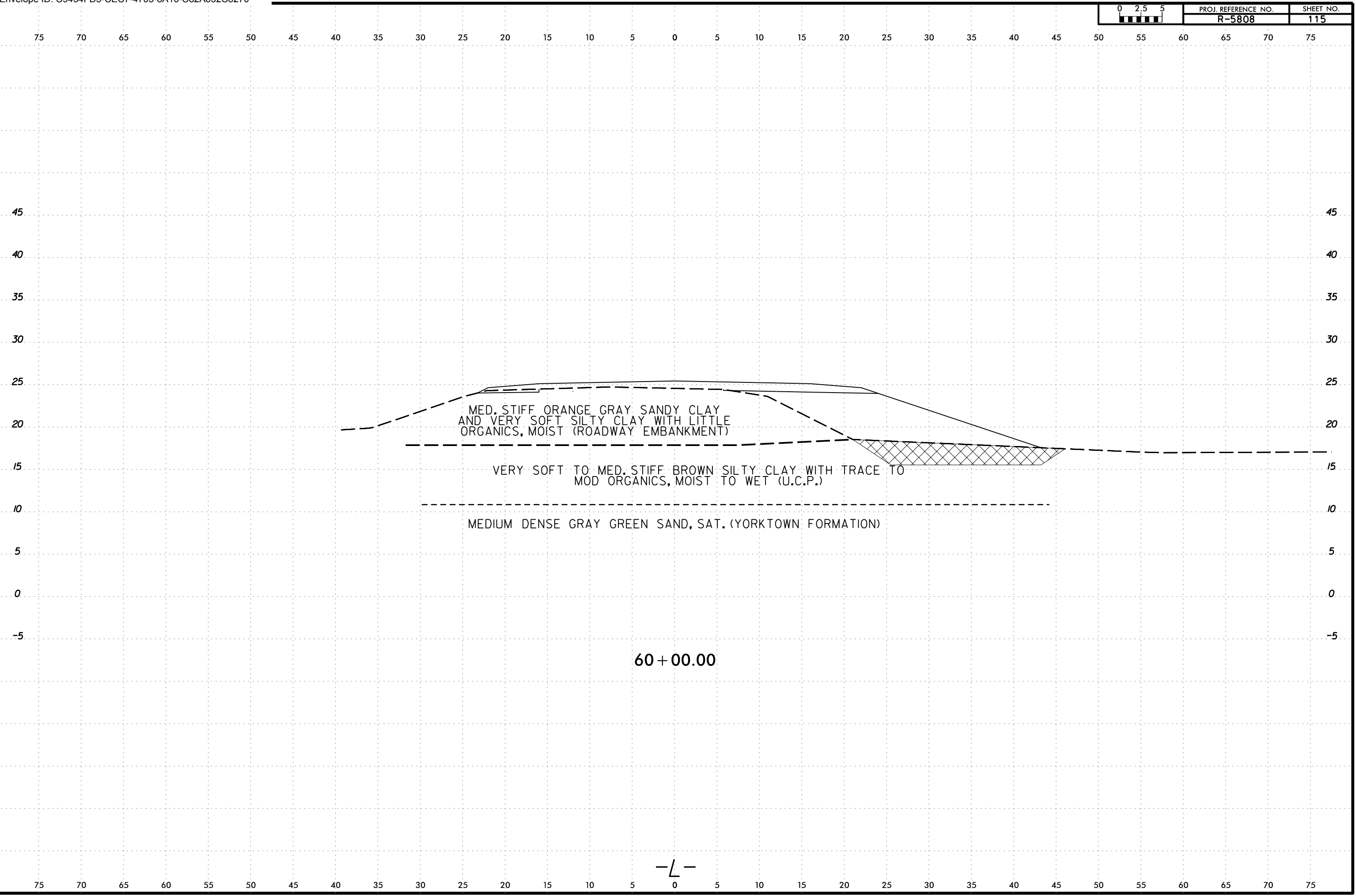
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSC\R5808L\_GEO\_XSR.dgn  
jstone



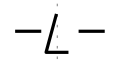
-L-

6/23/16

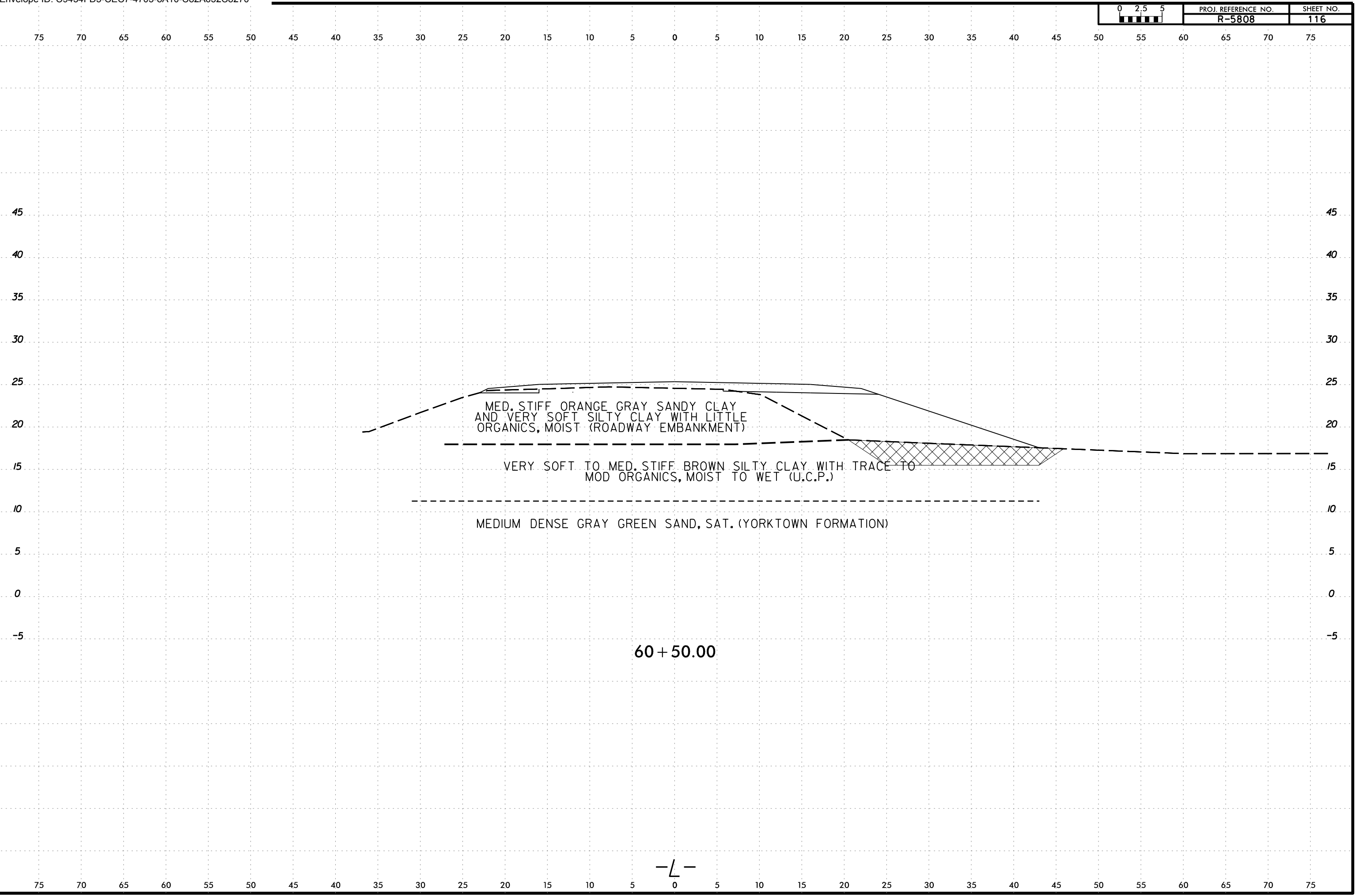
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn



60 + 00.00



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



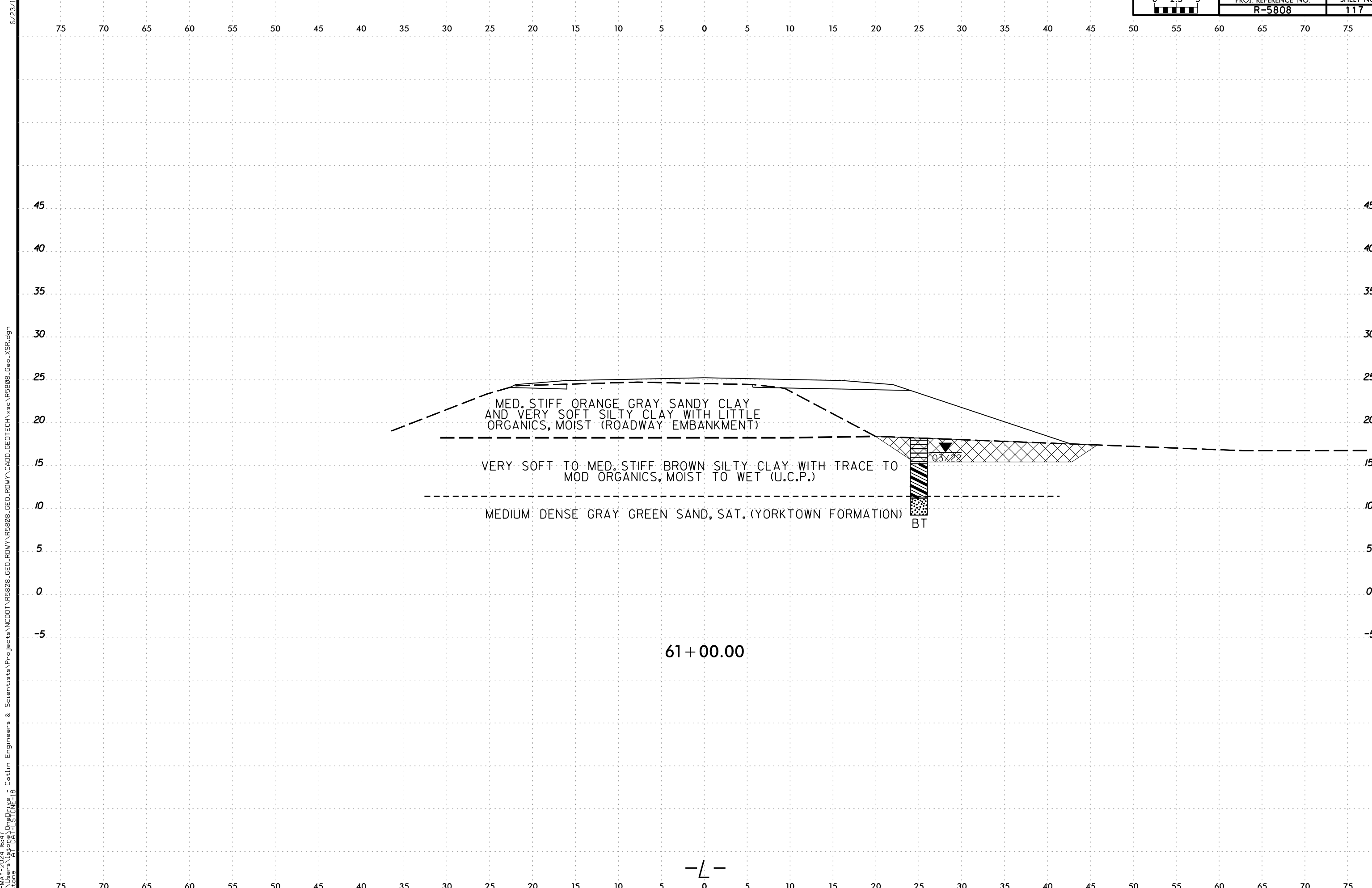
MED. STIFF ORANGE GRAY SANDY CLAY  
AND VERY SOFT SILTY CLAY WITH LITTLE  
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO  
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

60 + 50.00

-L-



MED. STIFF ORANGE GRAY SANDY CLAY  
AND VERY SOFT SILTY CLAY WITH LITTLE  
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO  
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

BT

0.3/2.2

61 + 00.00

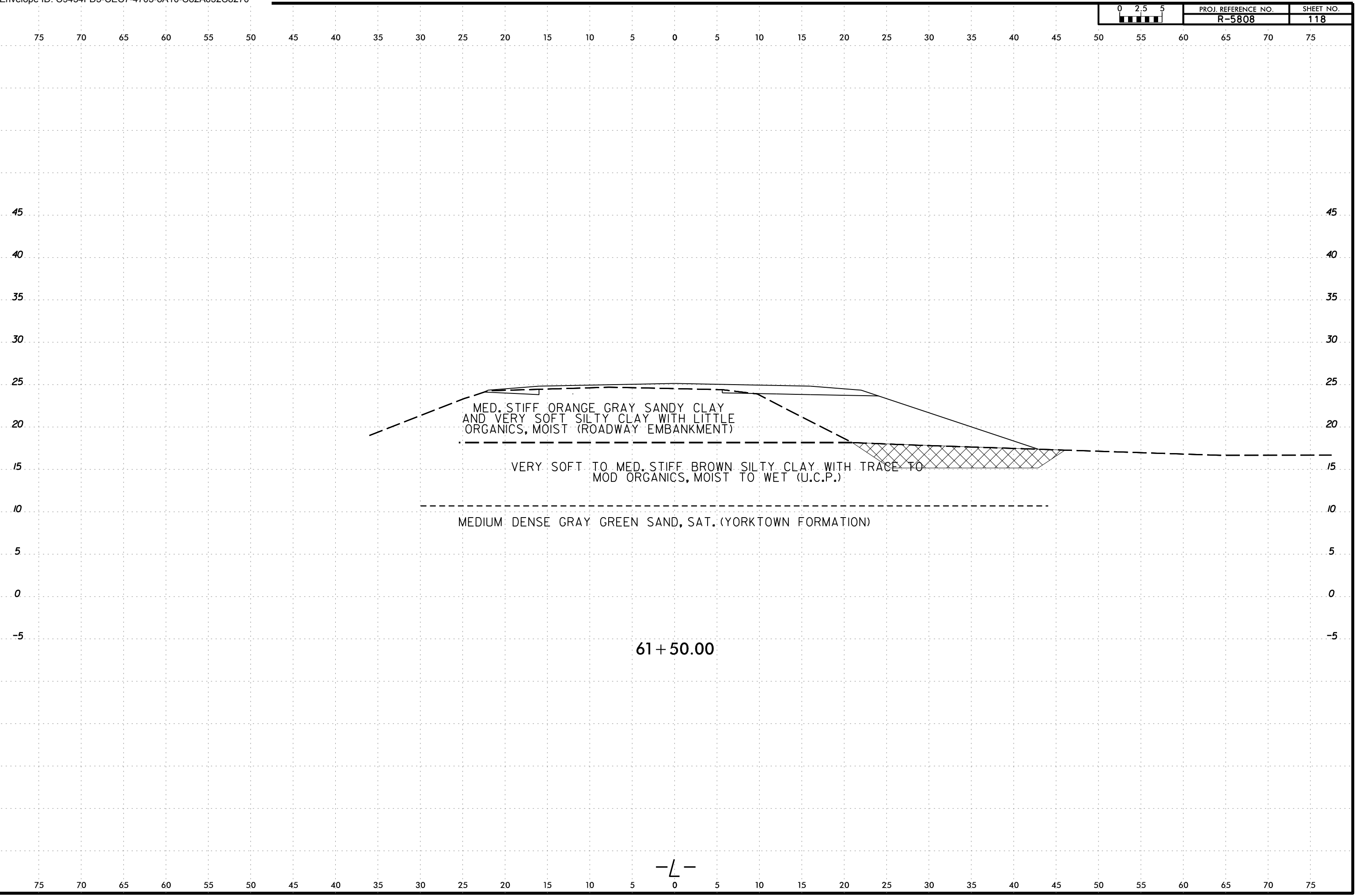
-L-

21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
 jstone  
 AT CAT-STONE-18

6/23/16

6/23/16

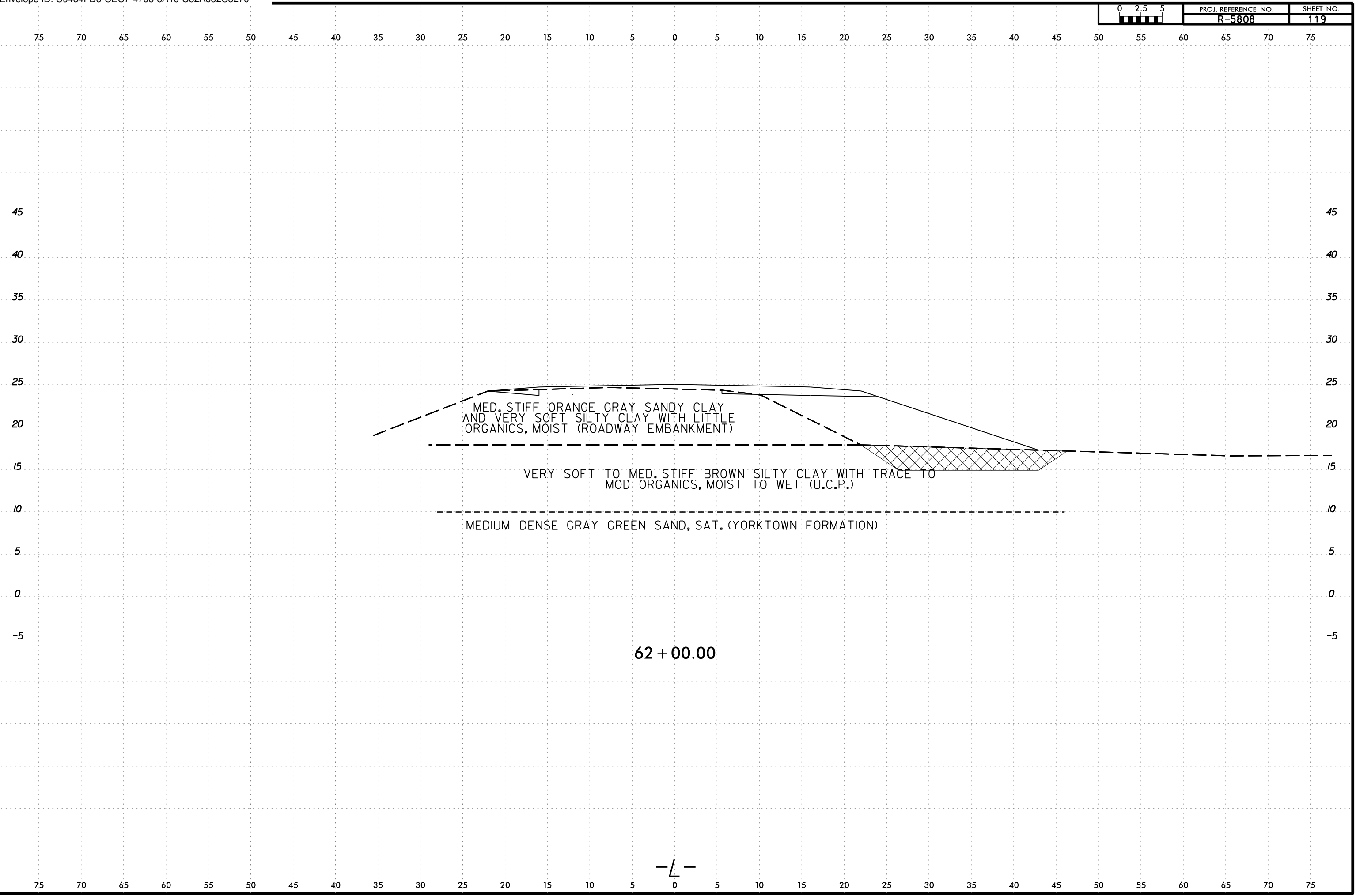
2\MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone



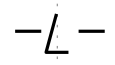
61 + 50.00

-L-

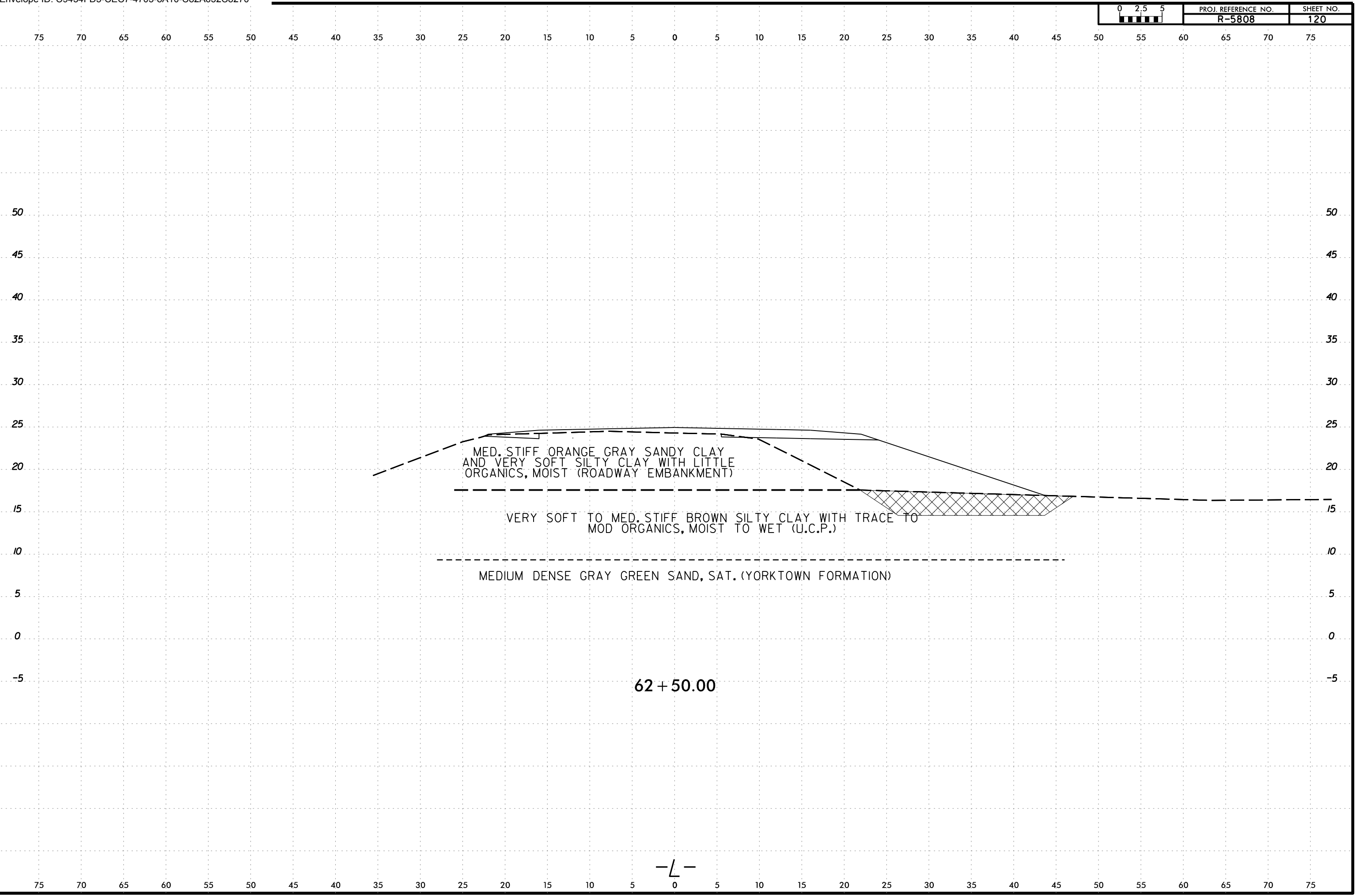
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
STONE AT CAT-1



62 + 00.00



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



MED. STIFF ORANGE GRAY SANDY CLAY  
AND VERY SOFT SILTY CLAY WITH LITTLE  
ORGANICS, MOIST (ROADWAY EMBANKMENT)

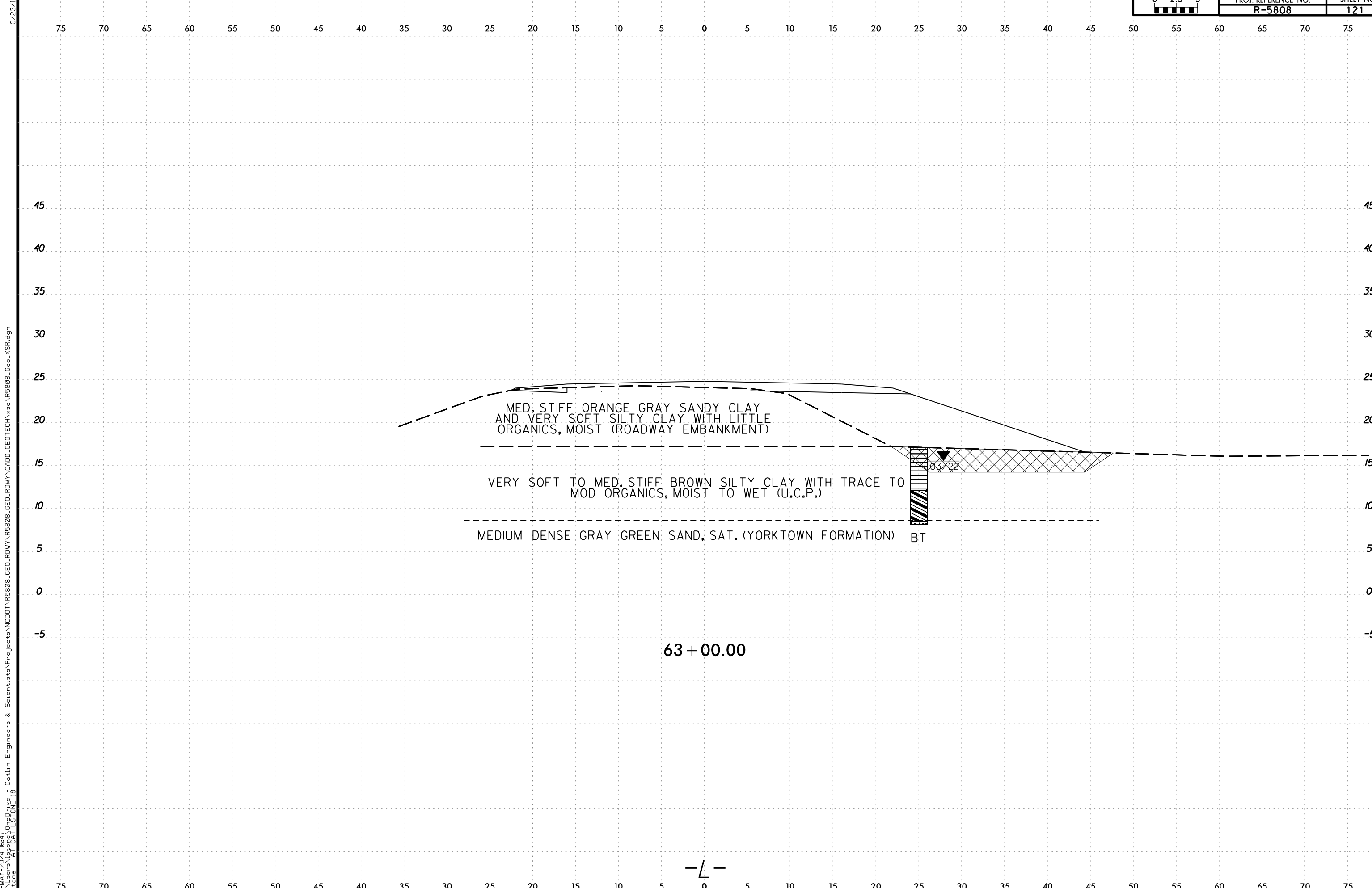
VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO  
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

62 + 50.00

-L-

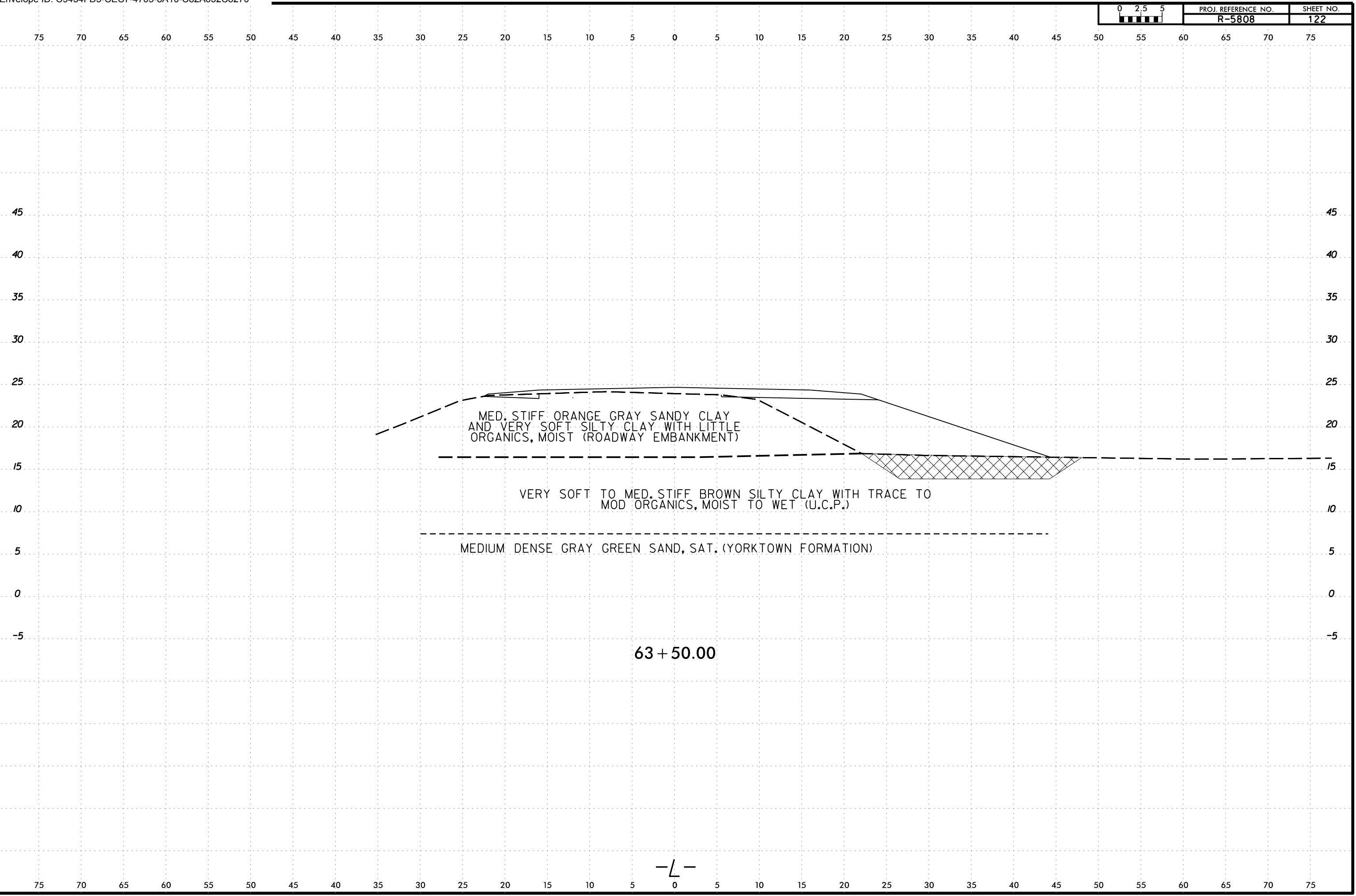




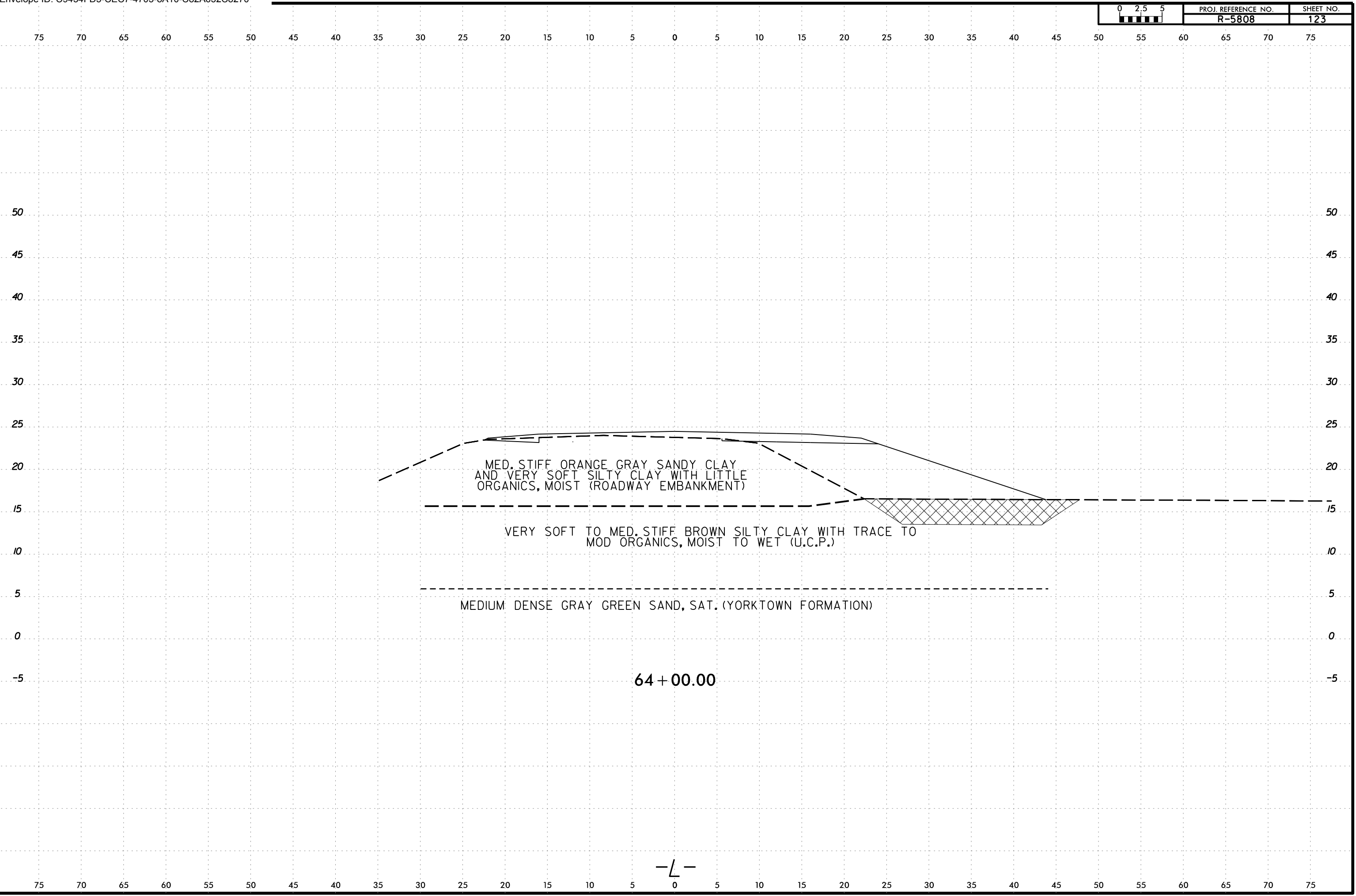
21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
 jstone  
 AT CAT-1 STONE-18

6/23/16

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone

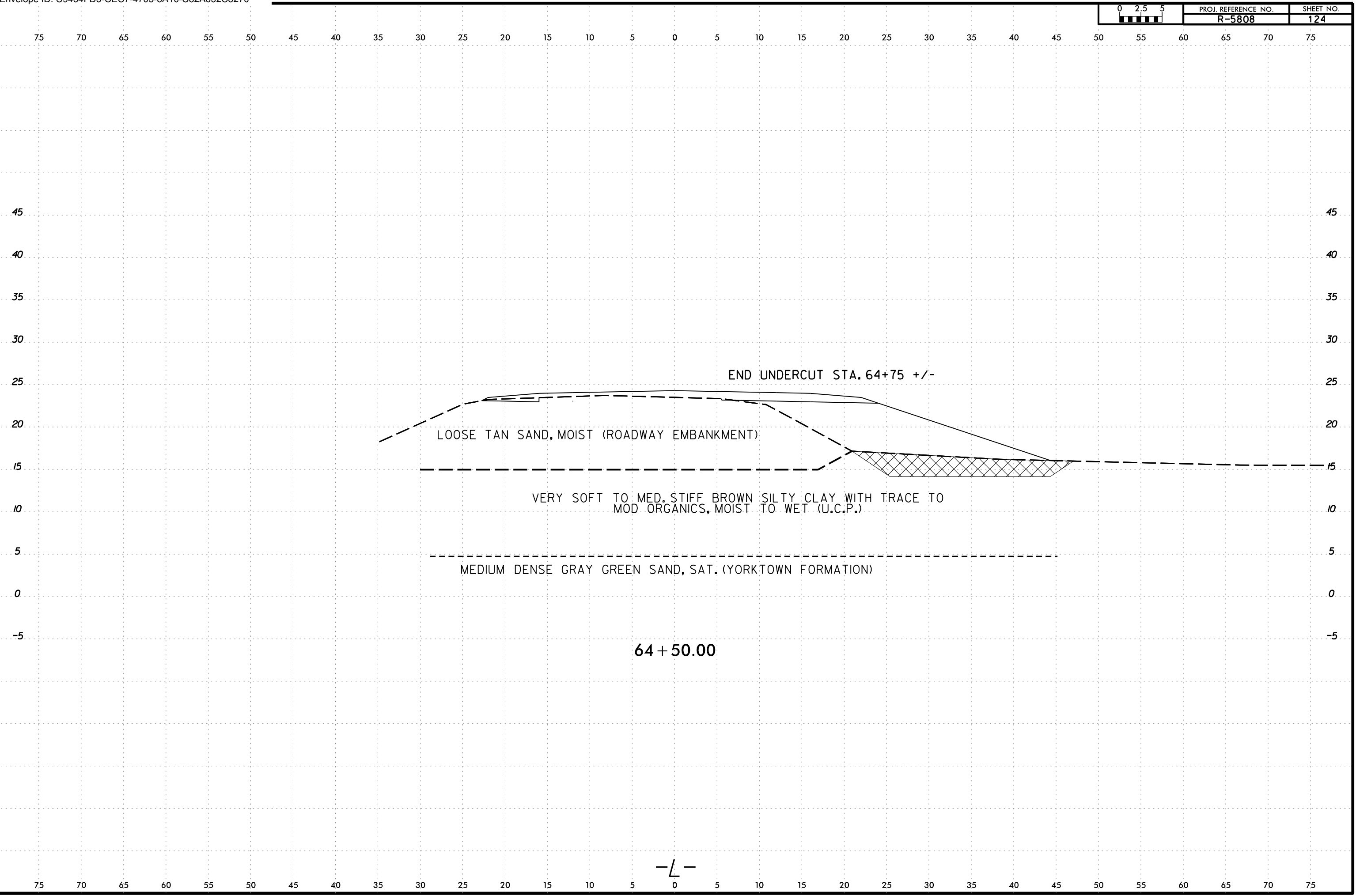


6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
STONE  
AT  
CAT-1-STONE-18



-L-

6/23/16  
21-MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
 21MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\GEO\TECH\SSC\R5808L\_Geo\_XSR.dgn  
 jstone

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 50

45 45

40 40

35 35

30 30

25 25

20 20

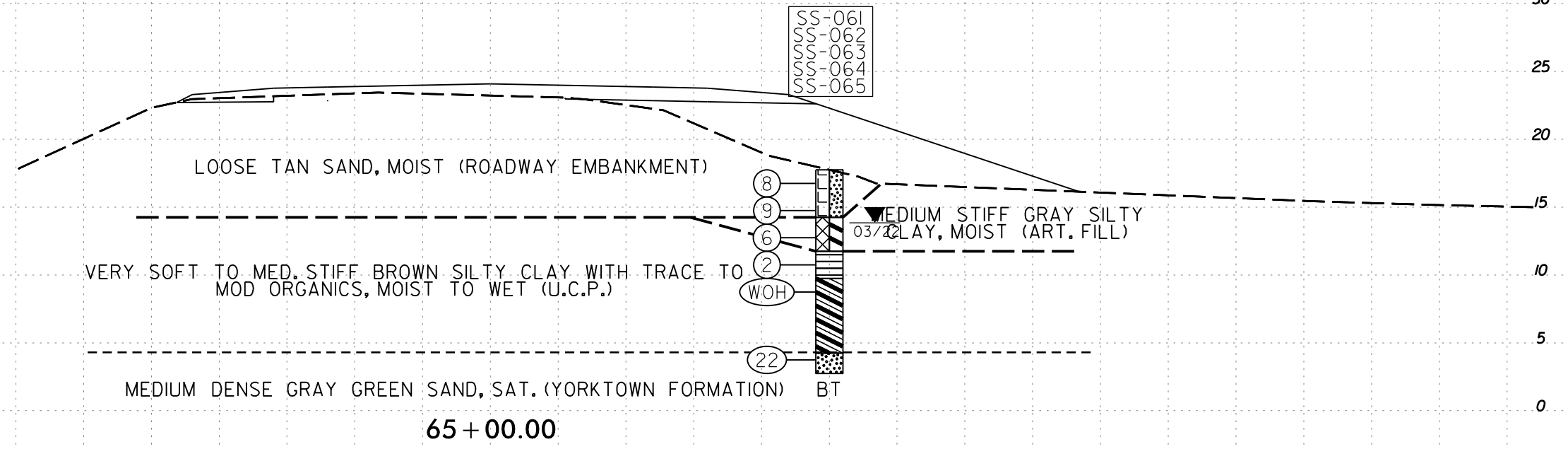
15 15

10 10

5 5

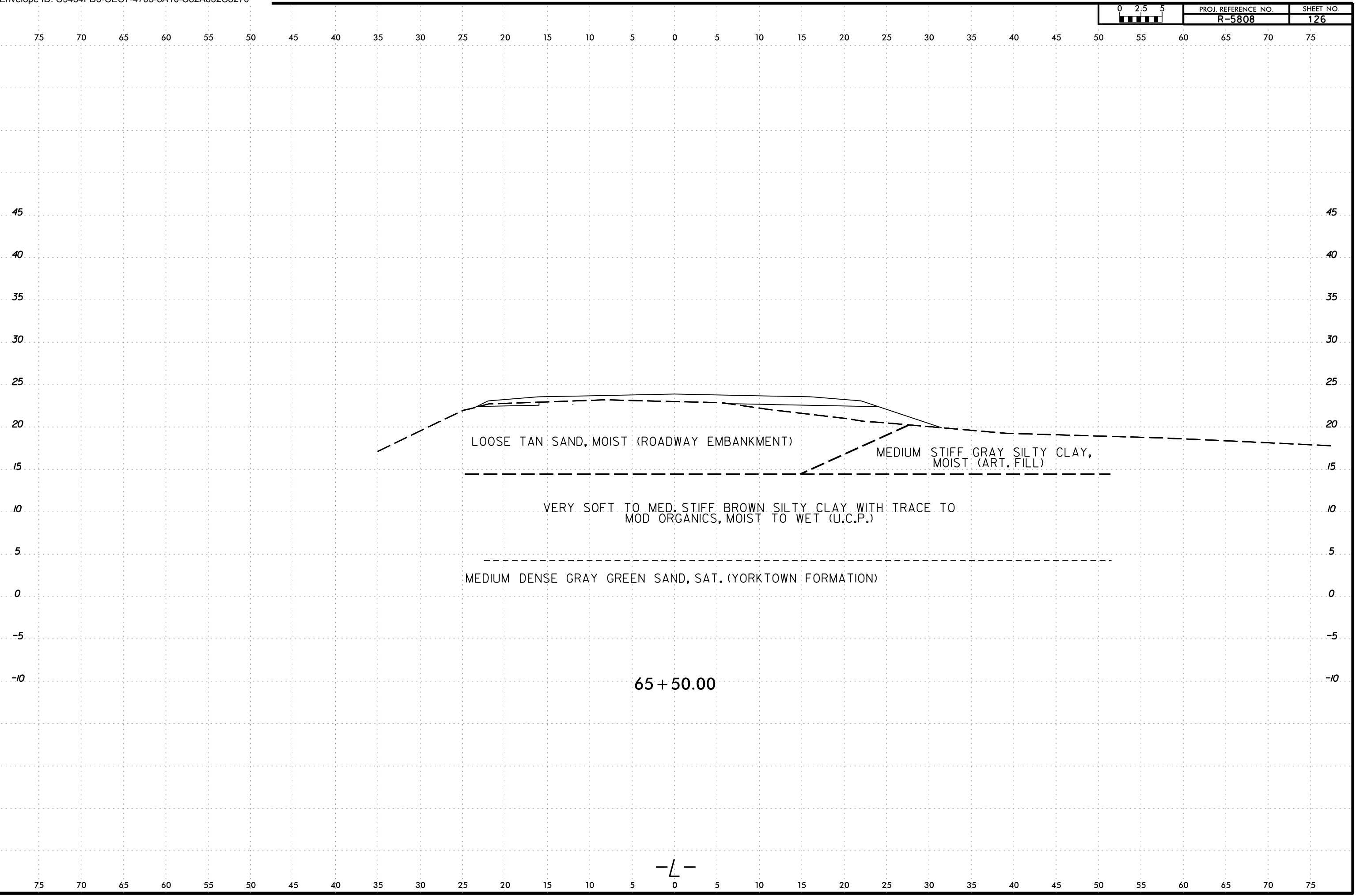
0 0

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-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	82.8	95	59	-	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	-	-

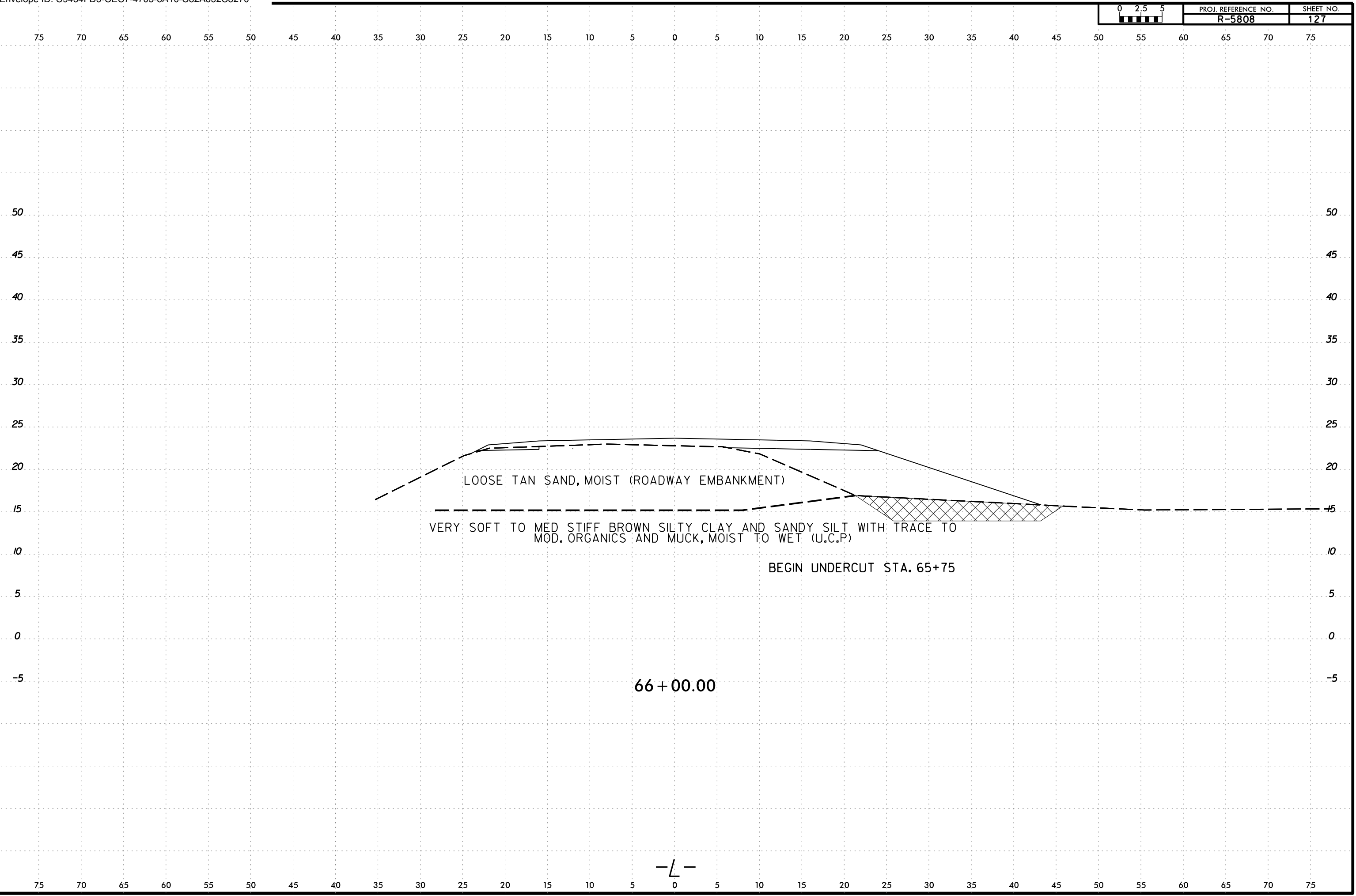


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

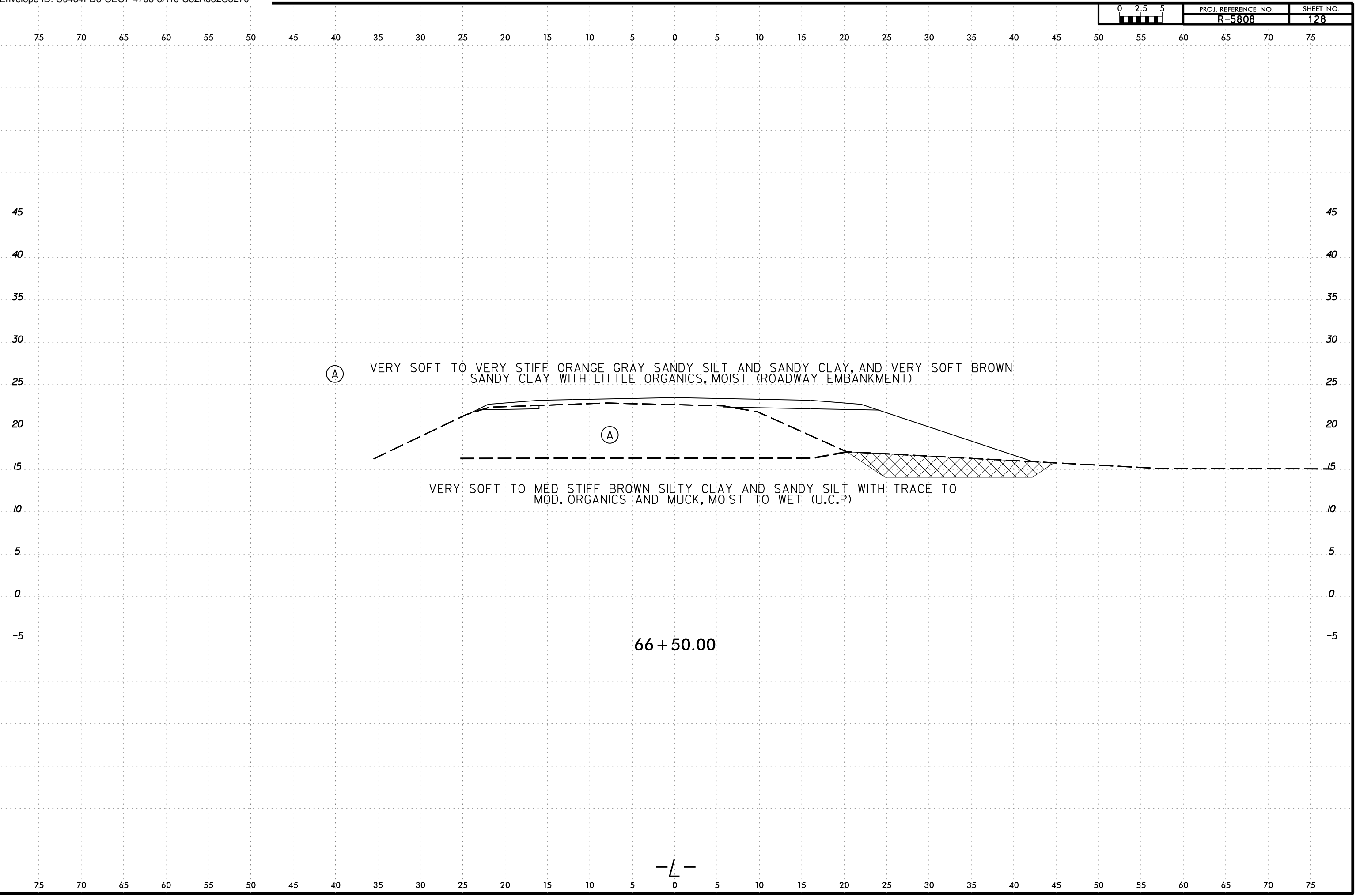
6/23/16  
21-MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

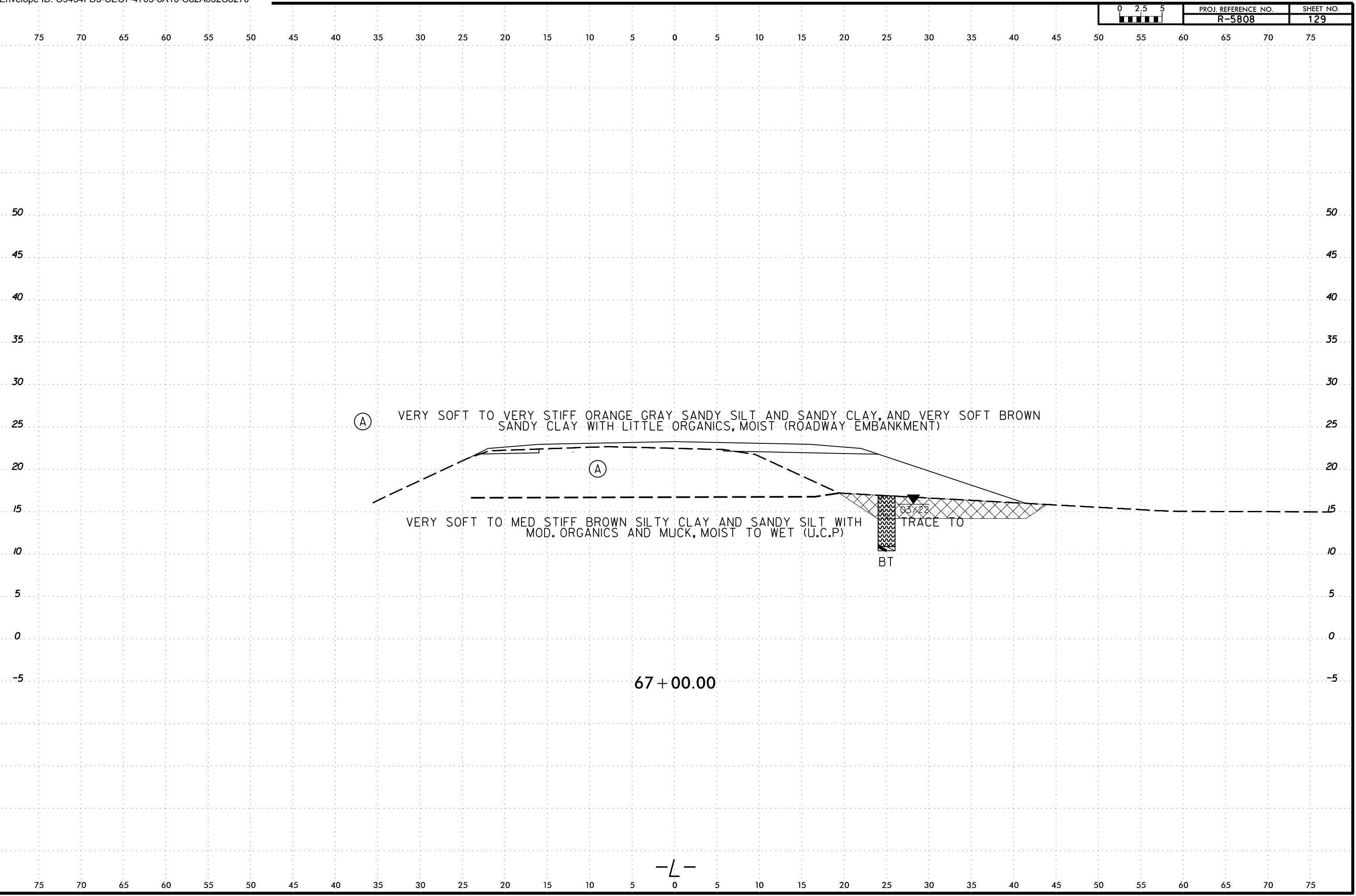


6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



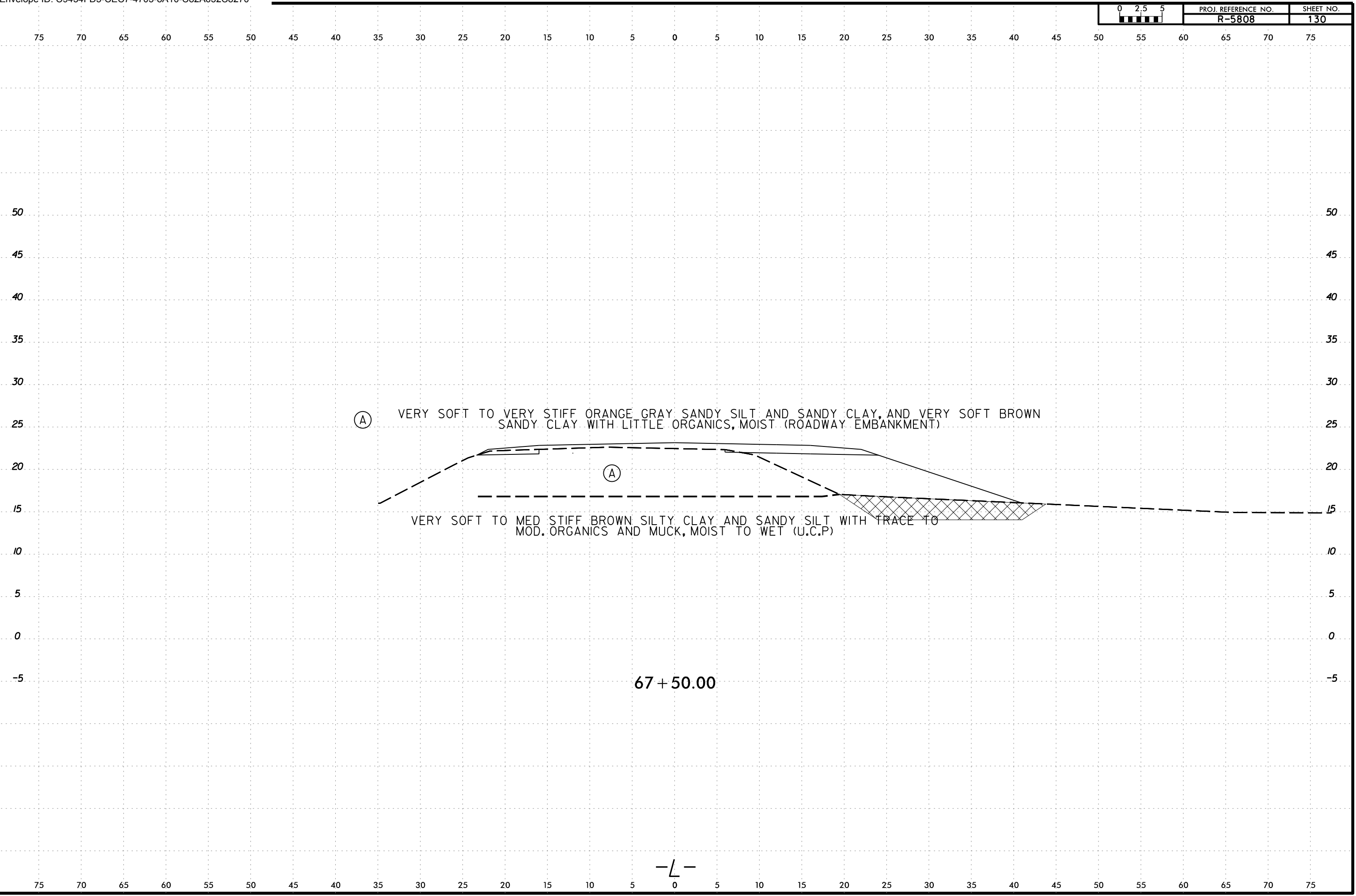


6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone

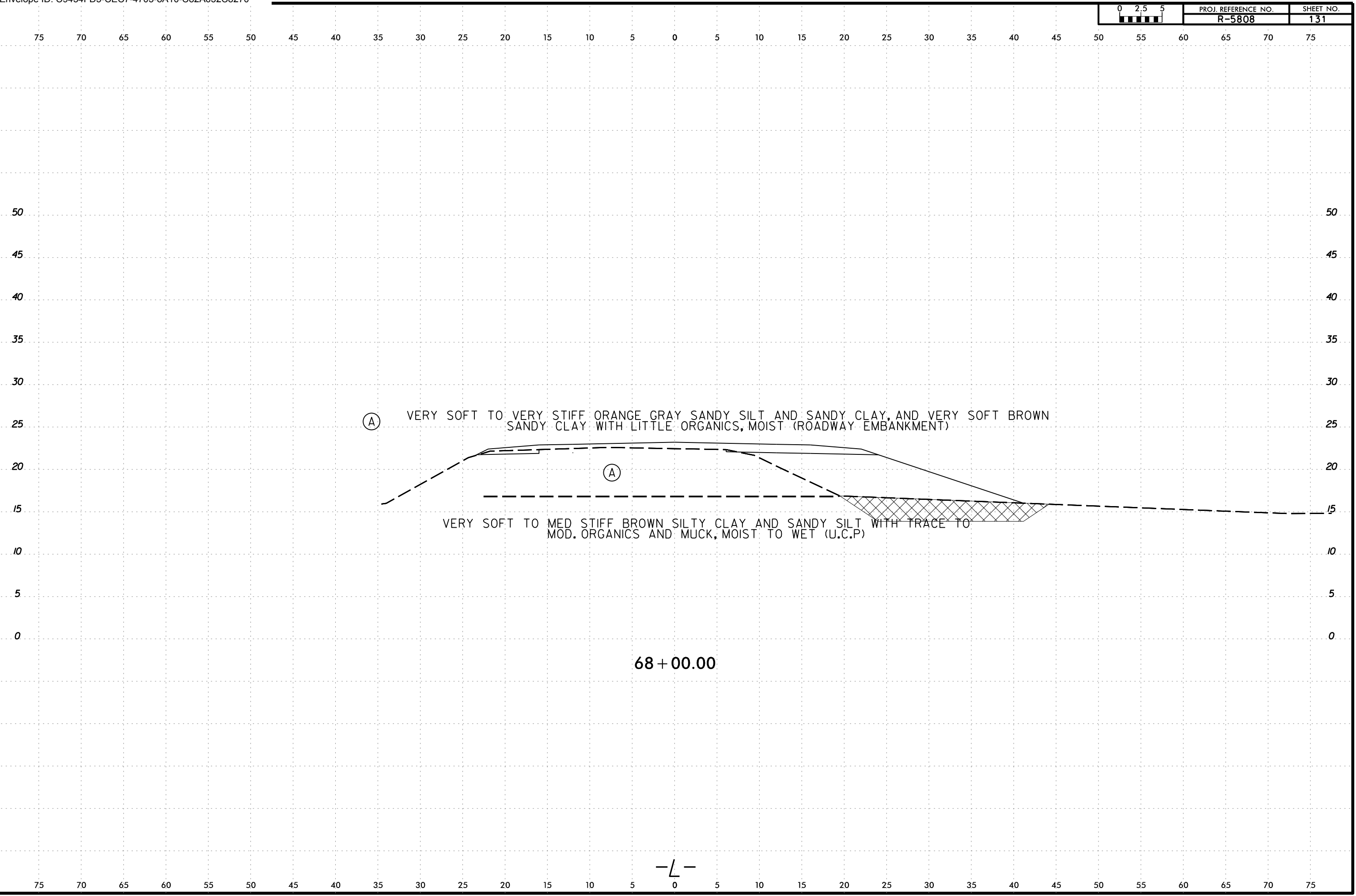


-L-

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR.dgn  
jstone

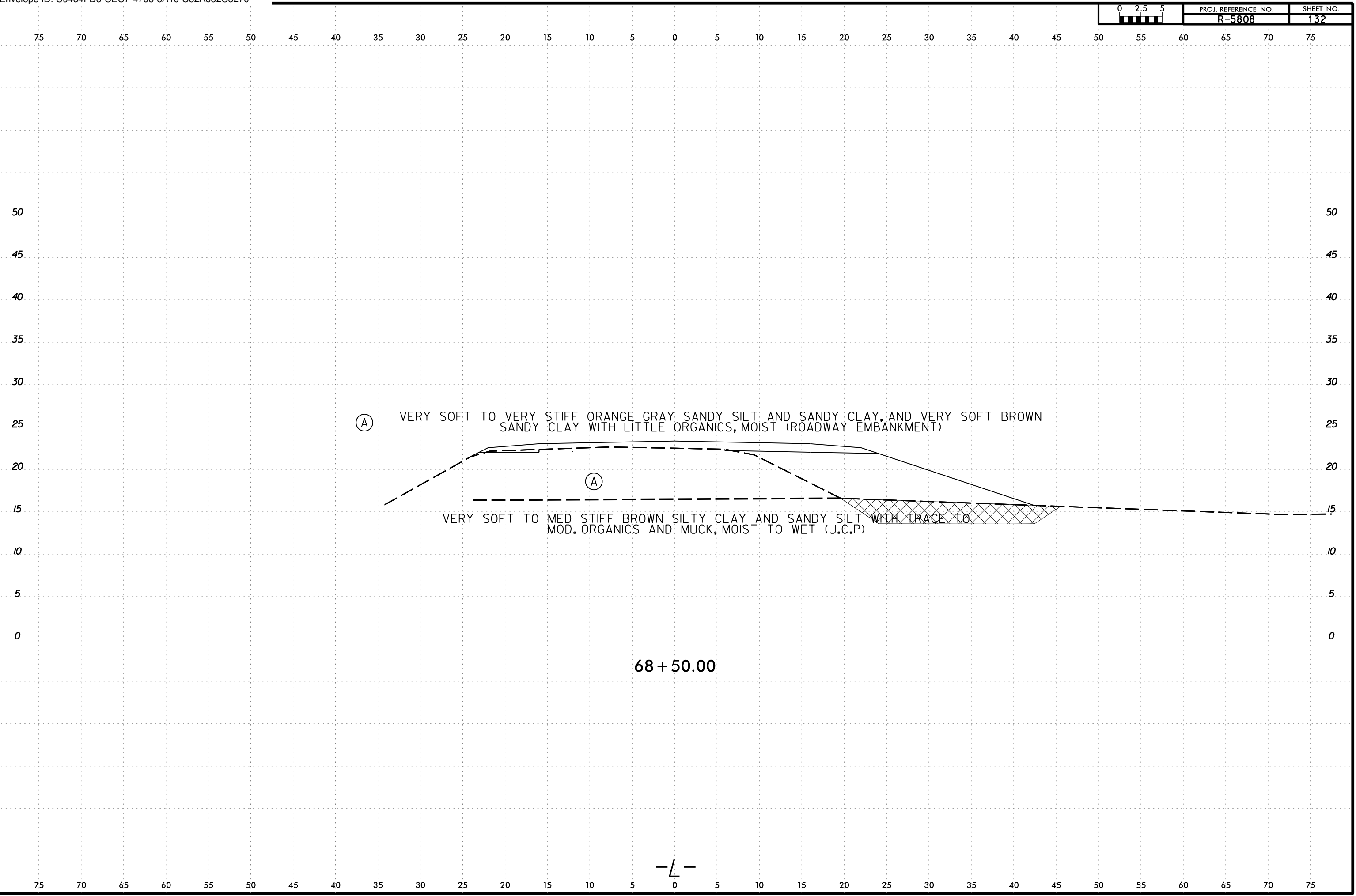


6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808L\_Geo\_XSR.dgn  
jstone

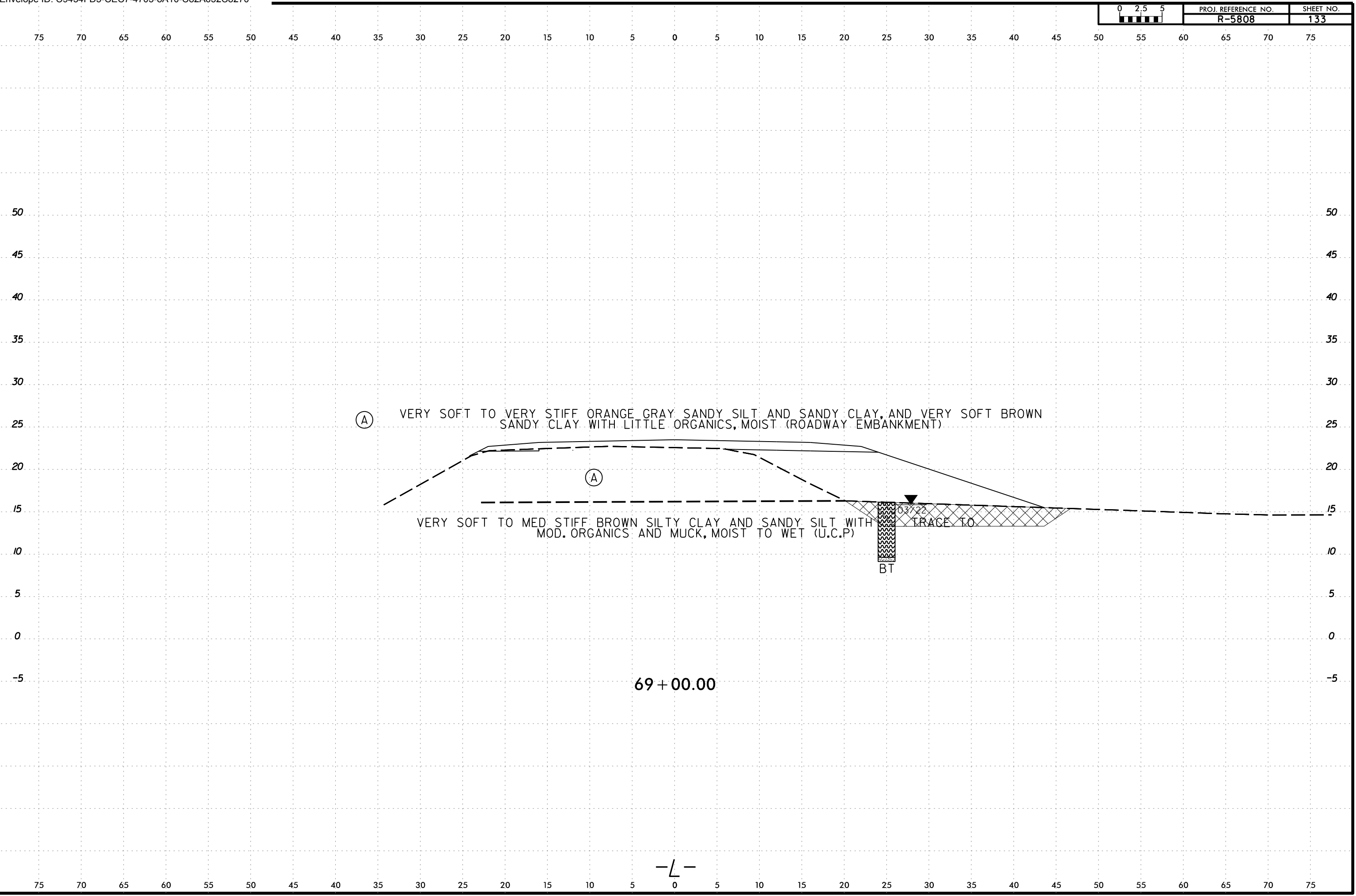


-L-

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR.dgn  
jstone



(A) VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

(A)

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

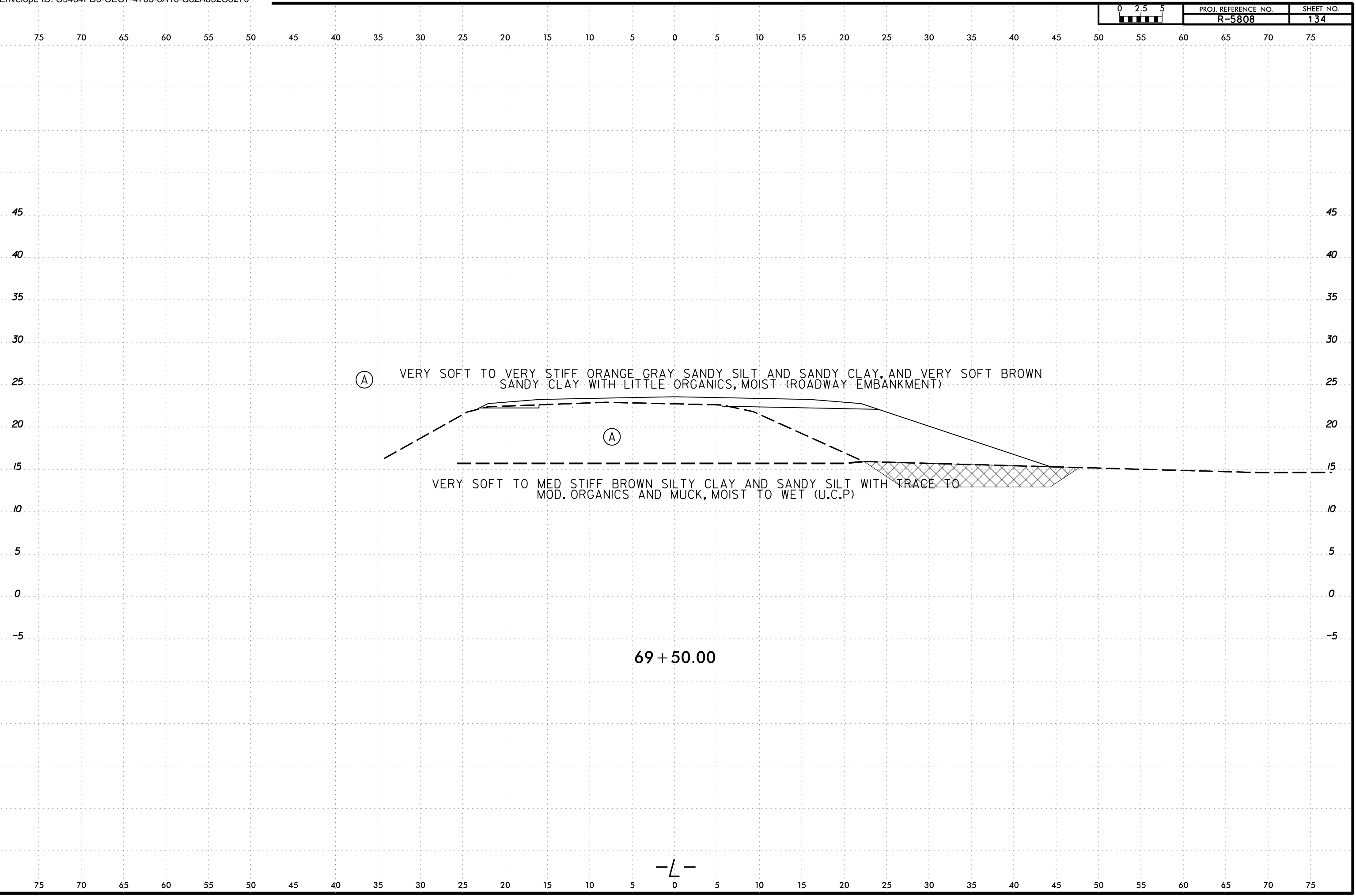
03'22"  
BT

TRACE TO

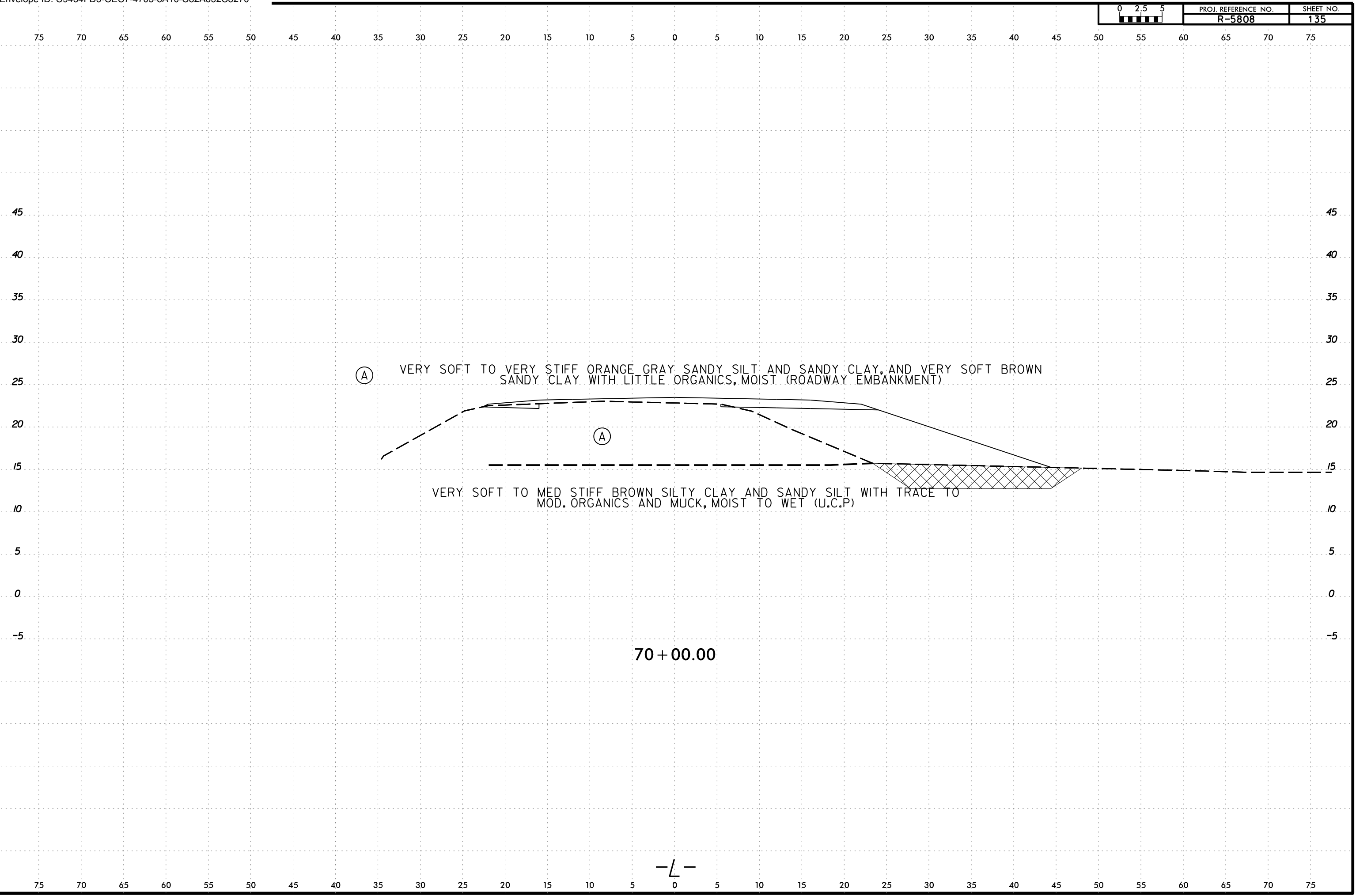
69 + 00.00

-L-

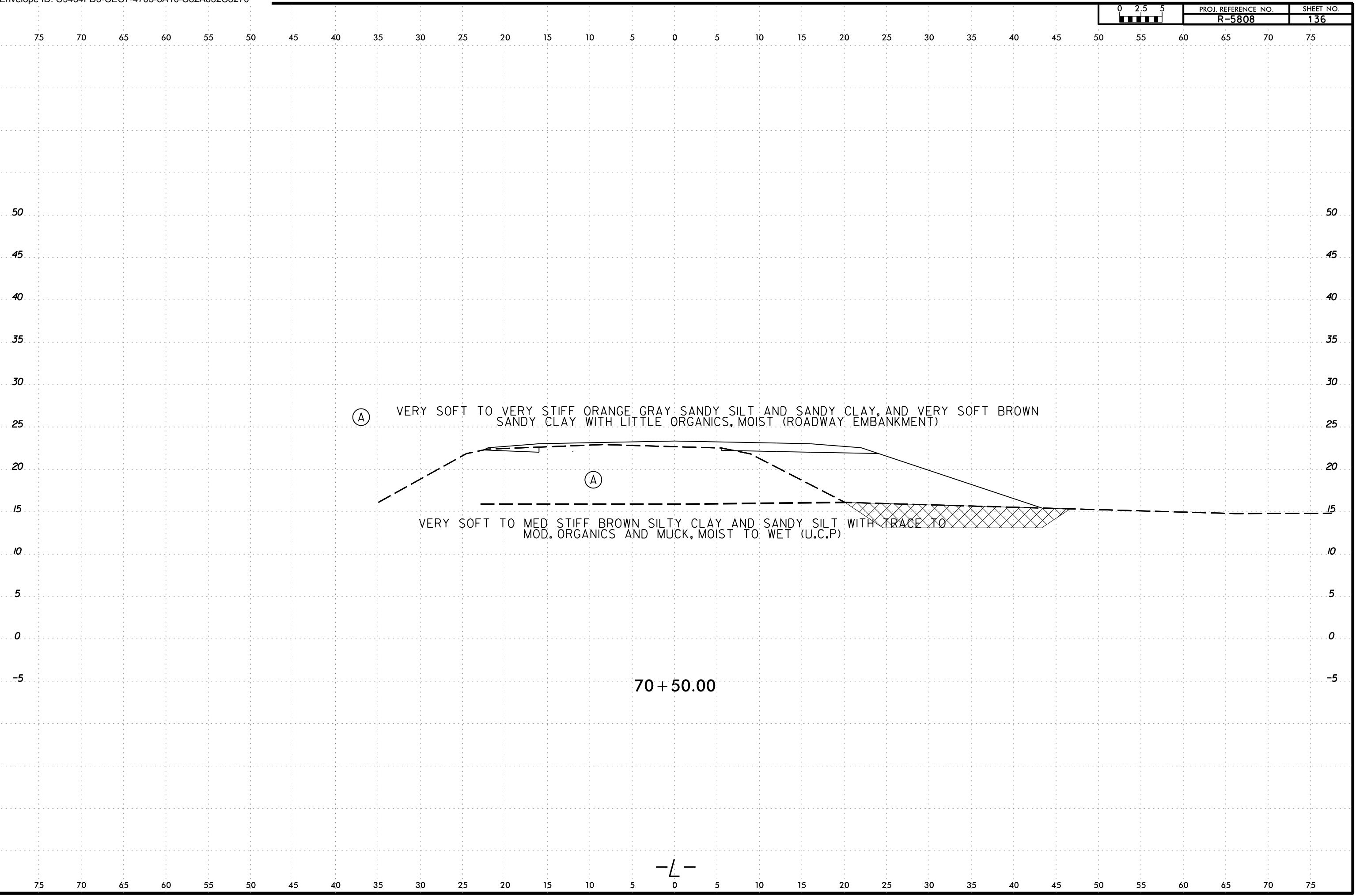
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
jstone



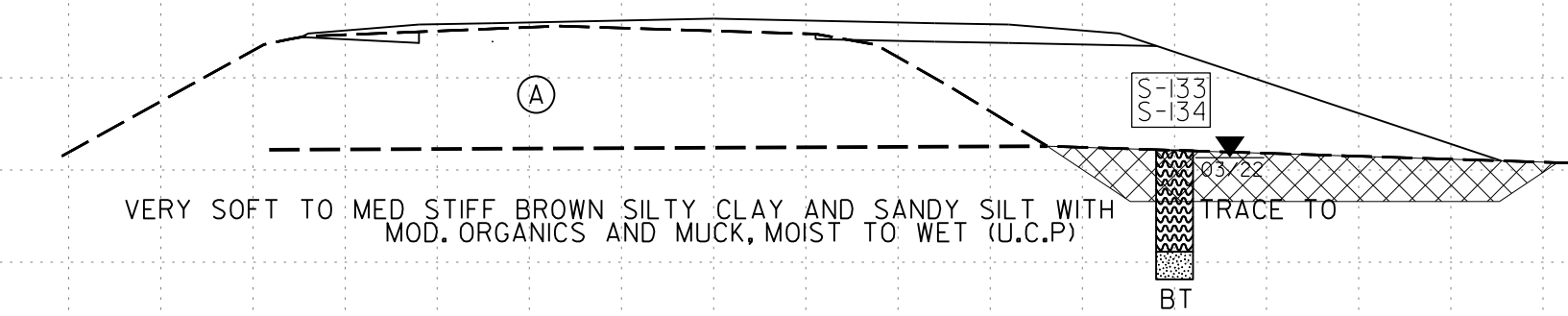
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR.dgn  
jstone





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	-	-

(A) VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



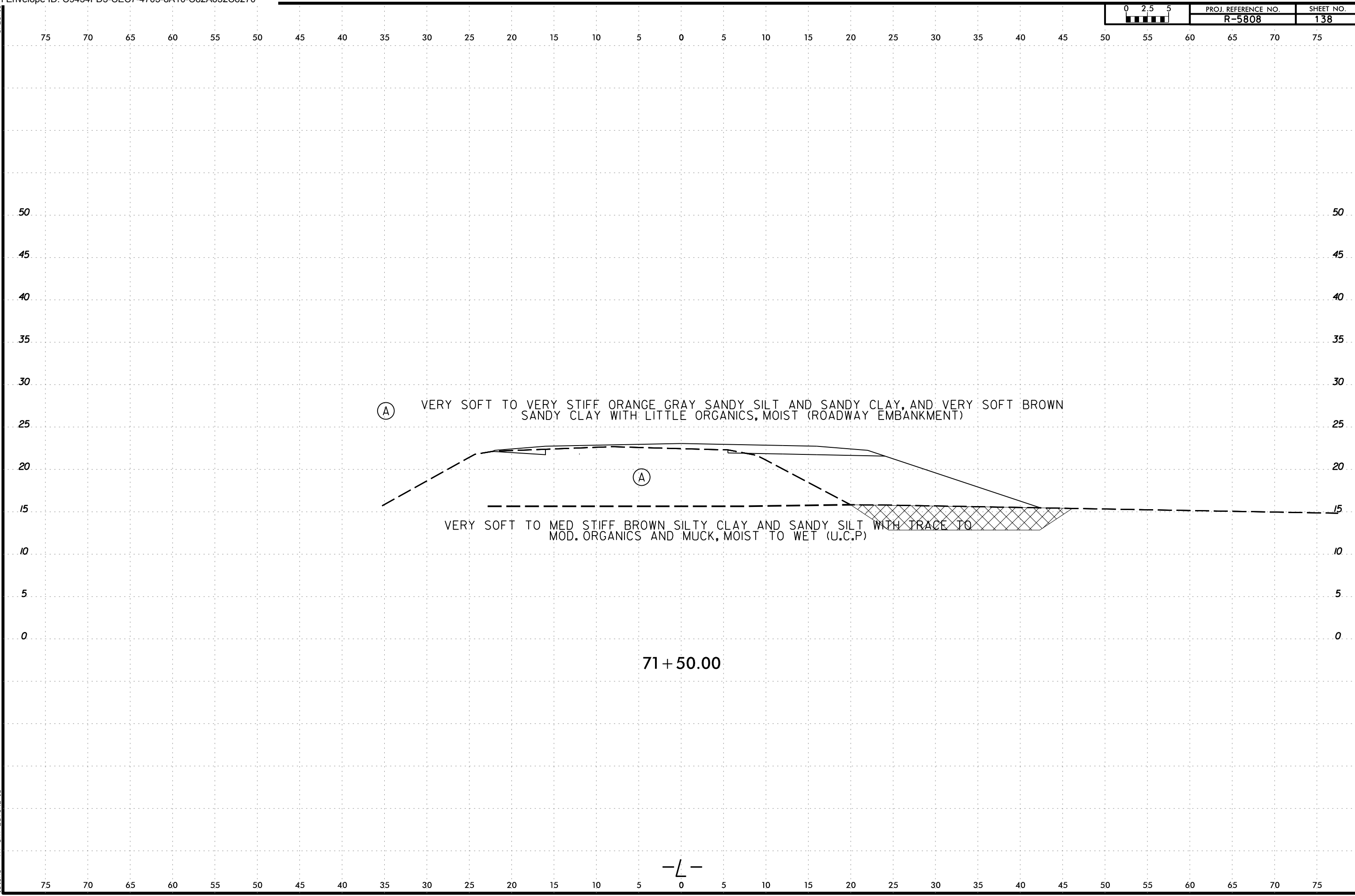
71 + 00.00

-L-

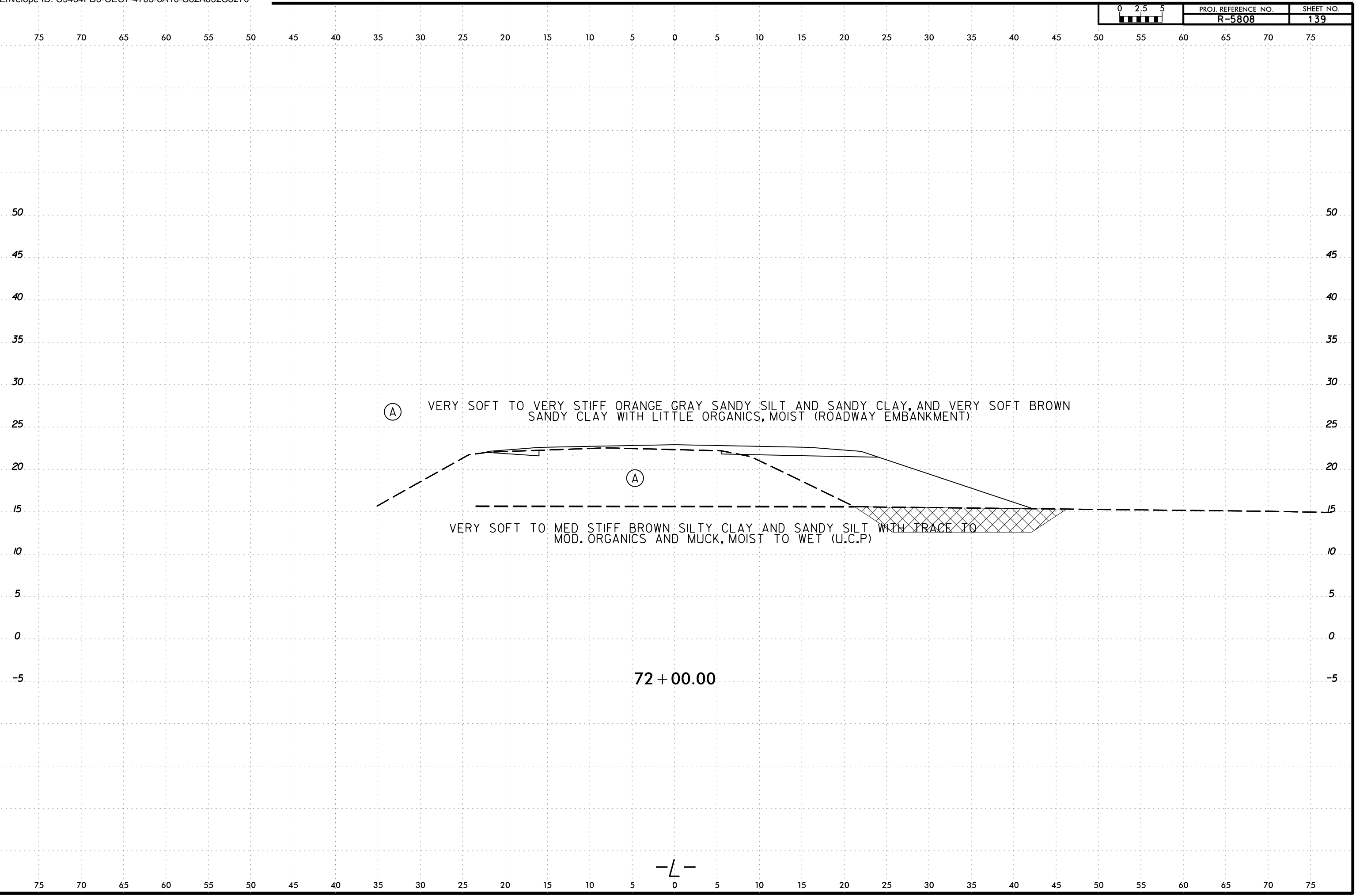
21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\VR5808\_GEO\_XSR.dgn  
 jstone

6/23/16

6/23/16  
21-MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\CADD\_GEO\TECH\ssc\R5808L\_Geo\_XSR.dgn  
jstone  
AT CAT-STONE-18

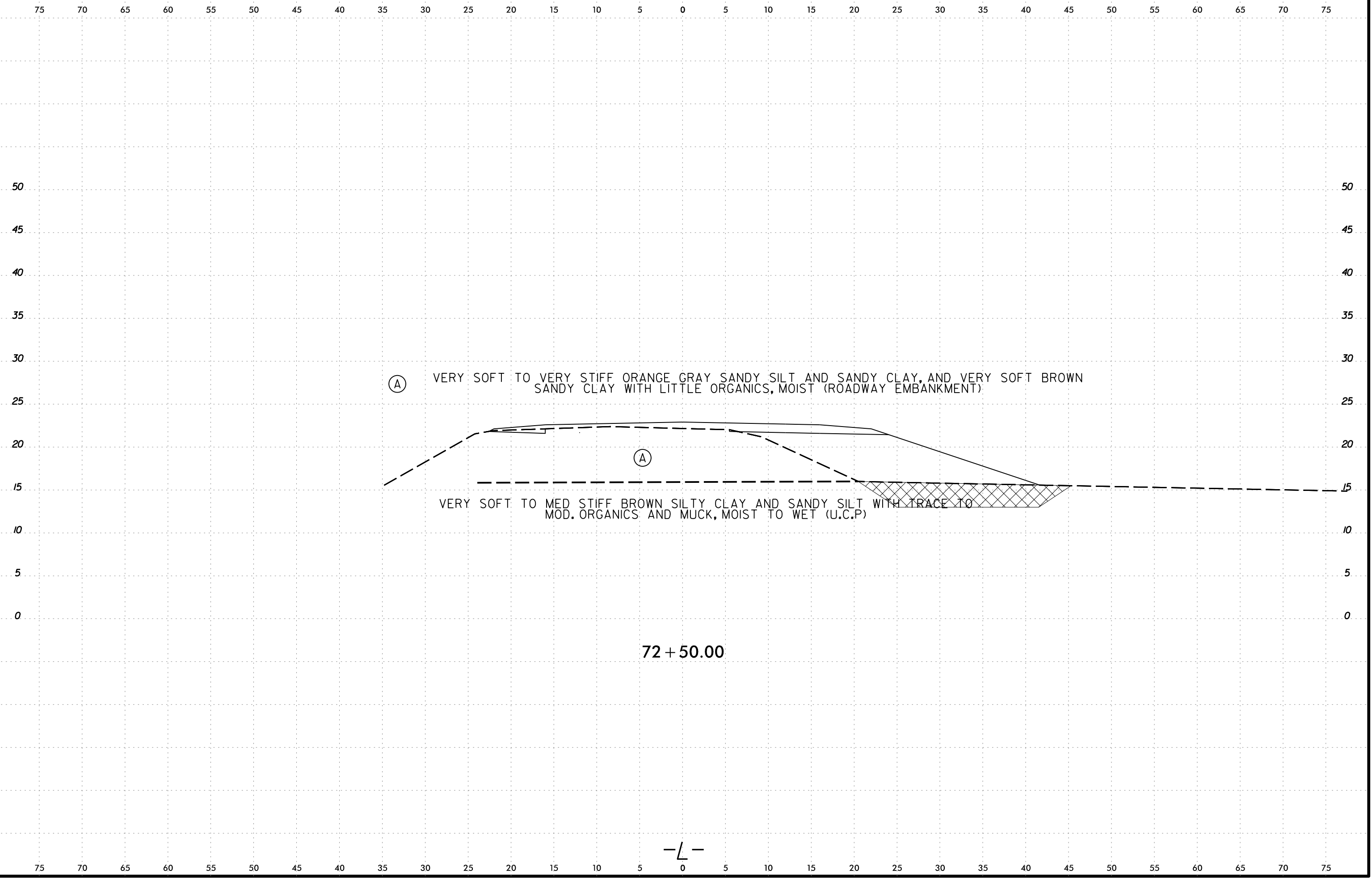


6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

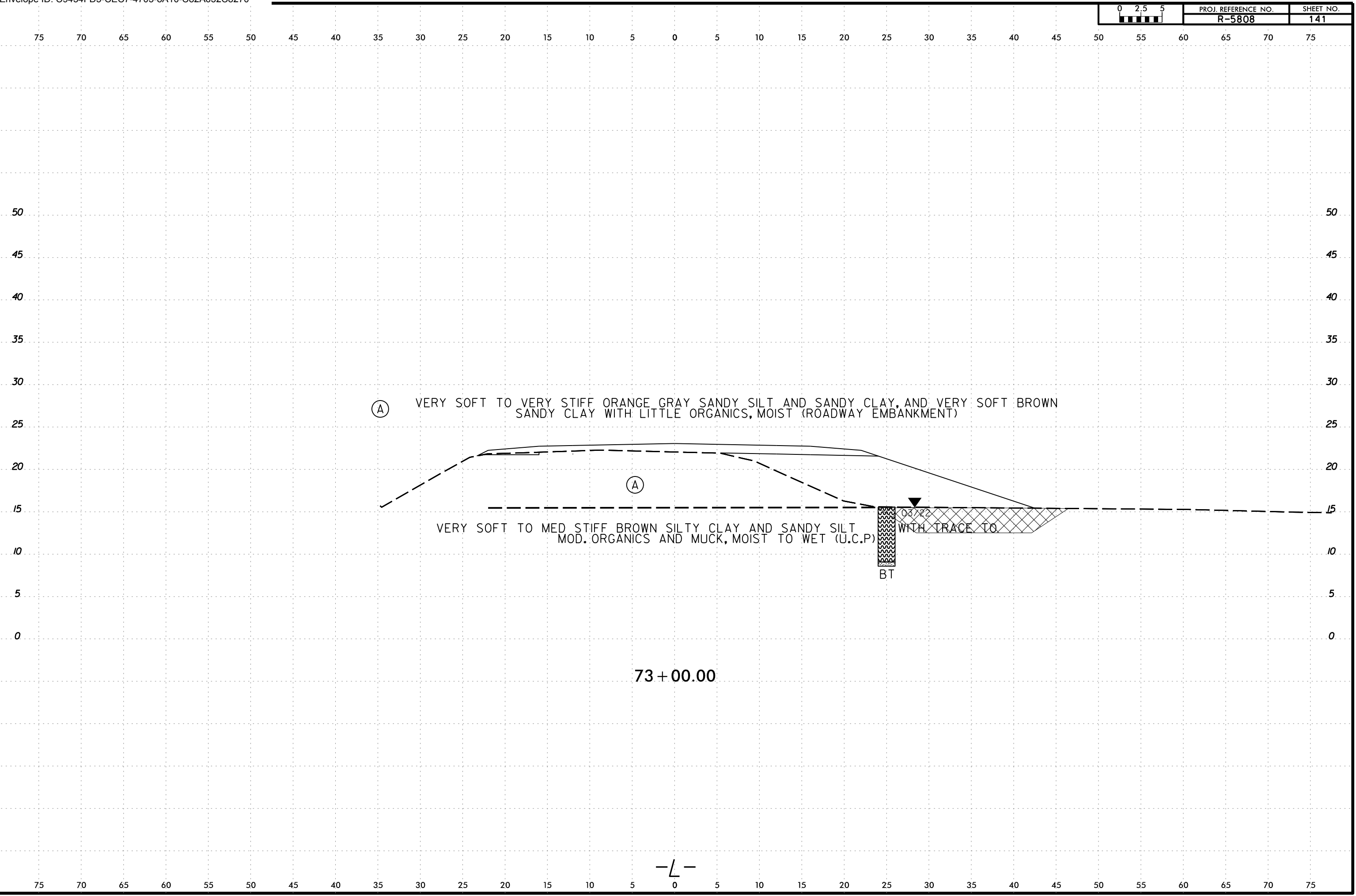


6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\CADD\_GEO\TECH\ssc\RS808L\_Geo\_XSR.dgn  
jstone

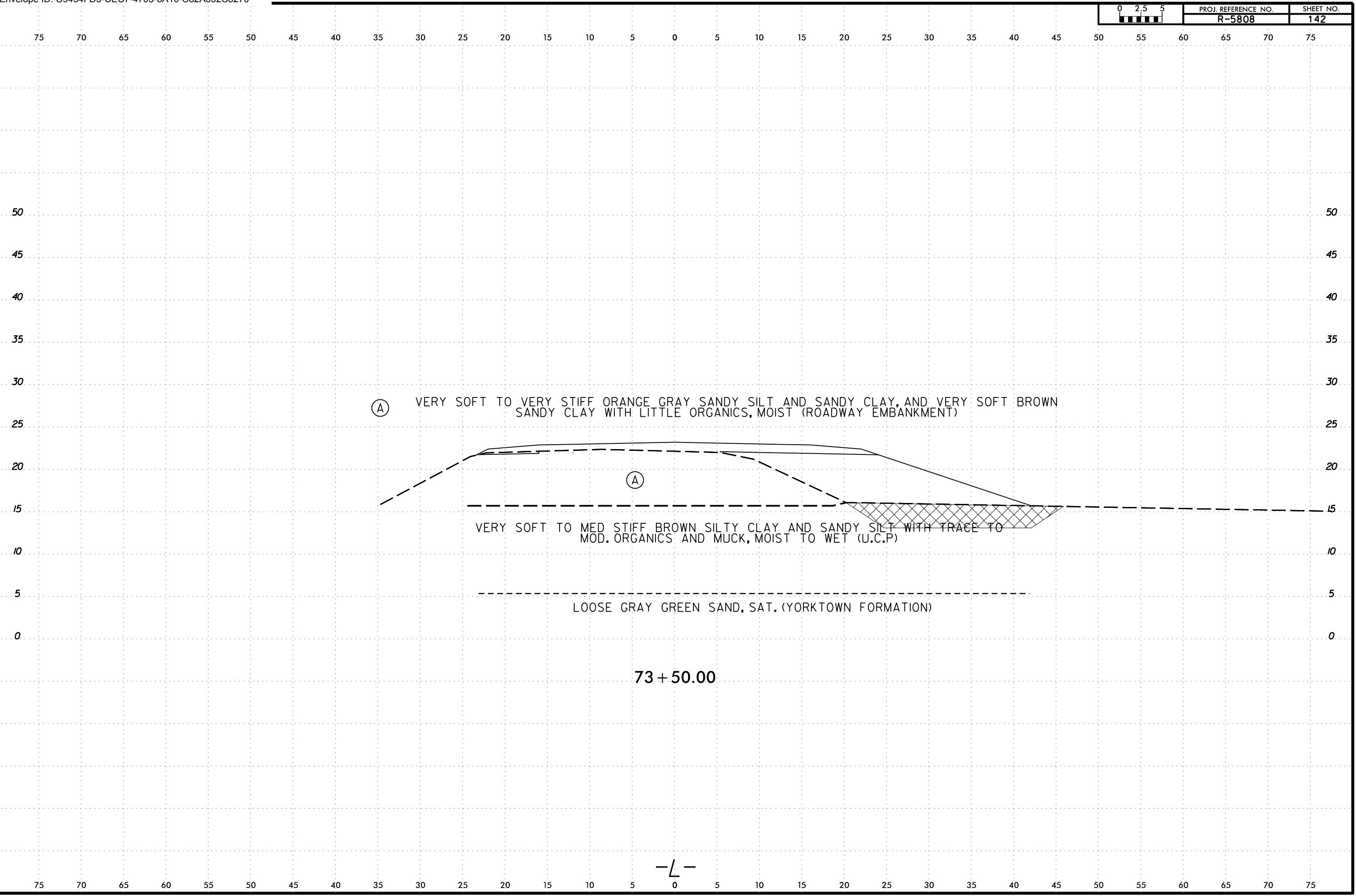
	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	140



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR.dgn  
jstone

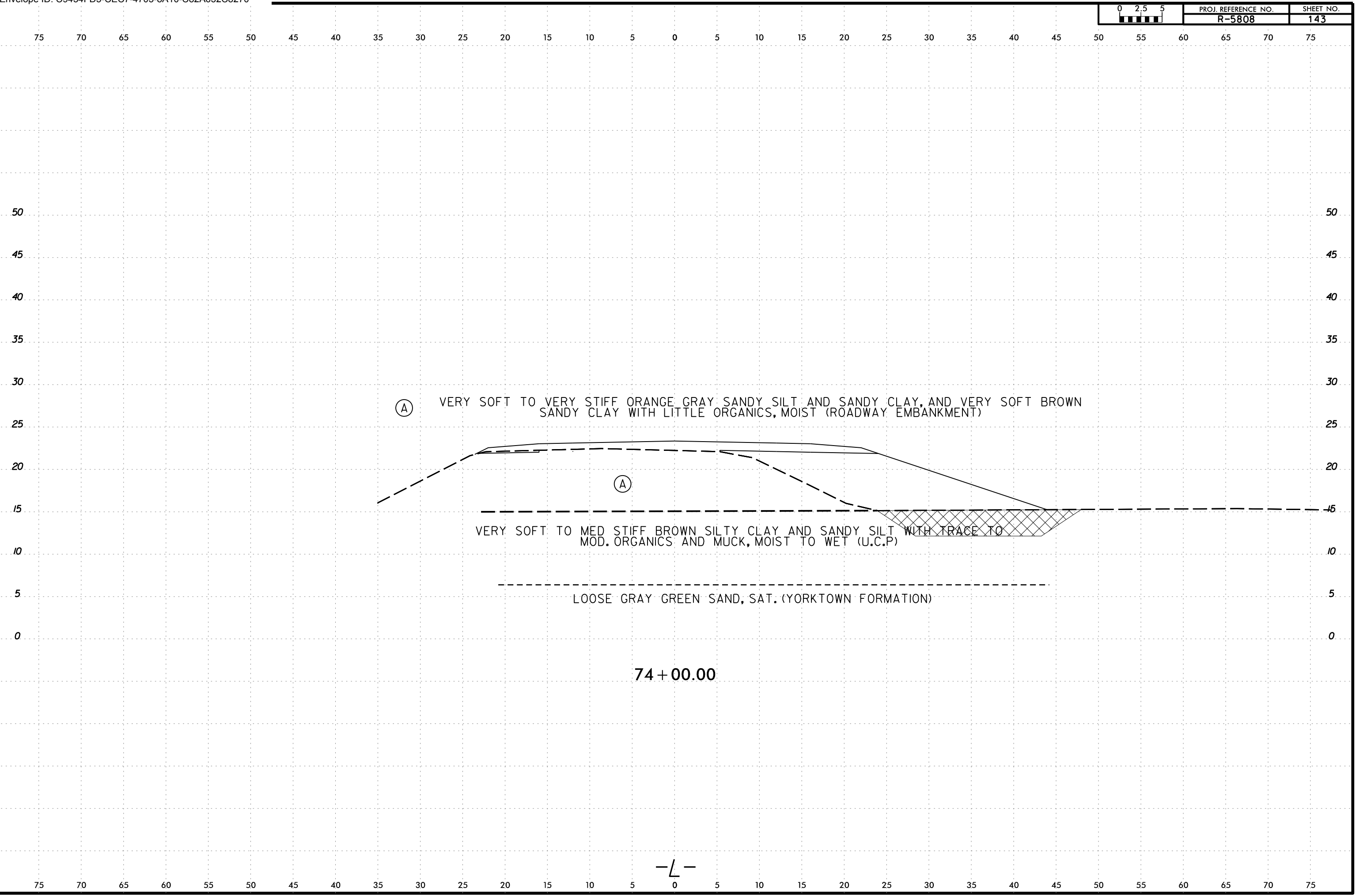


6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone

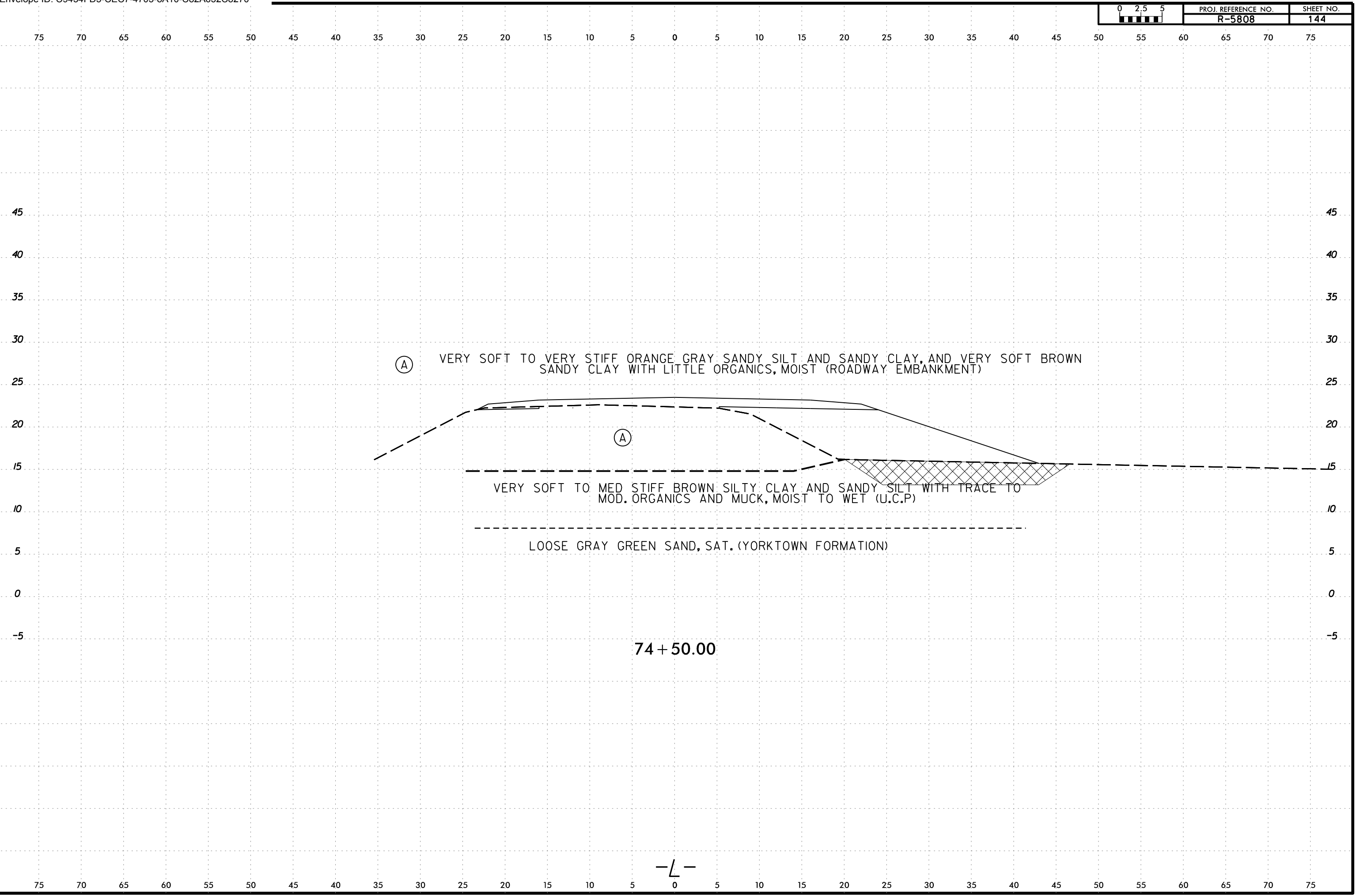


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone



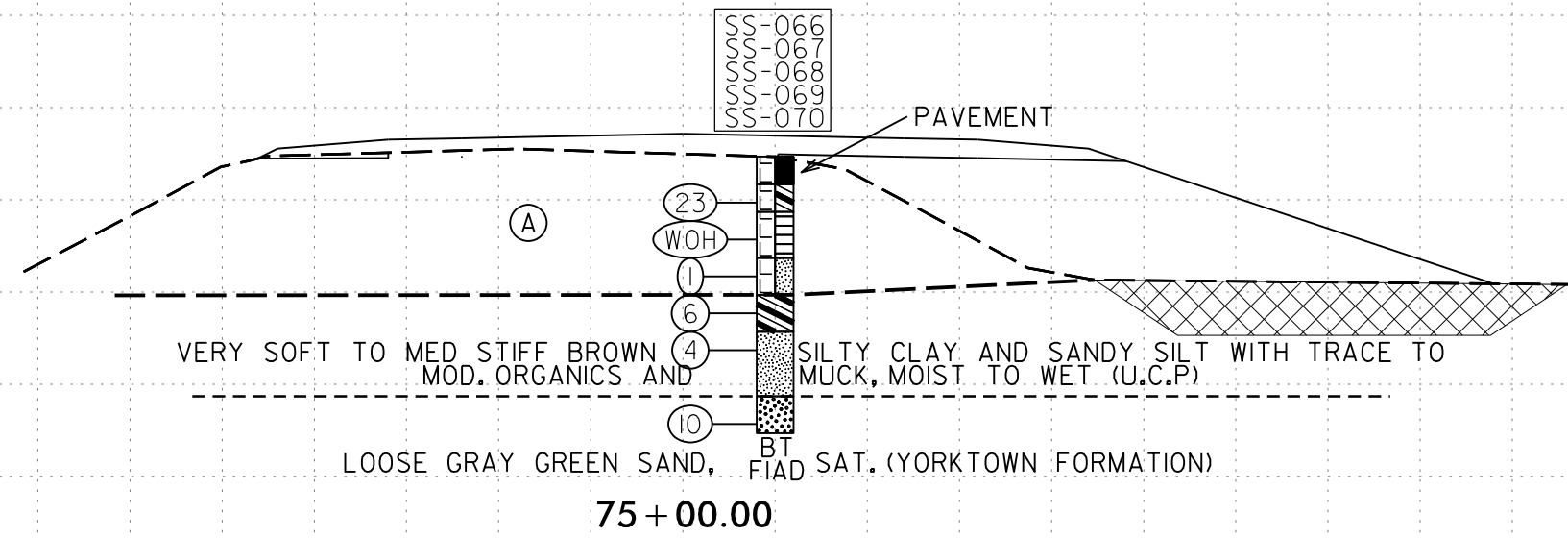
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone





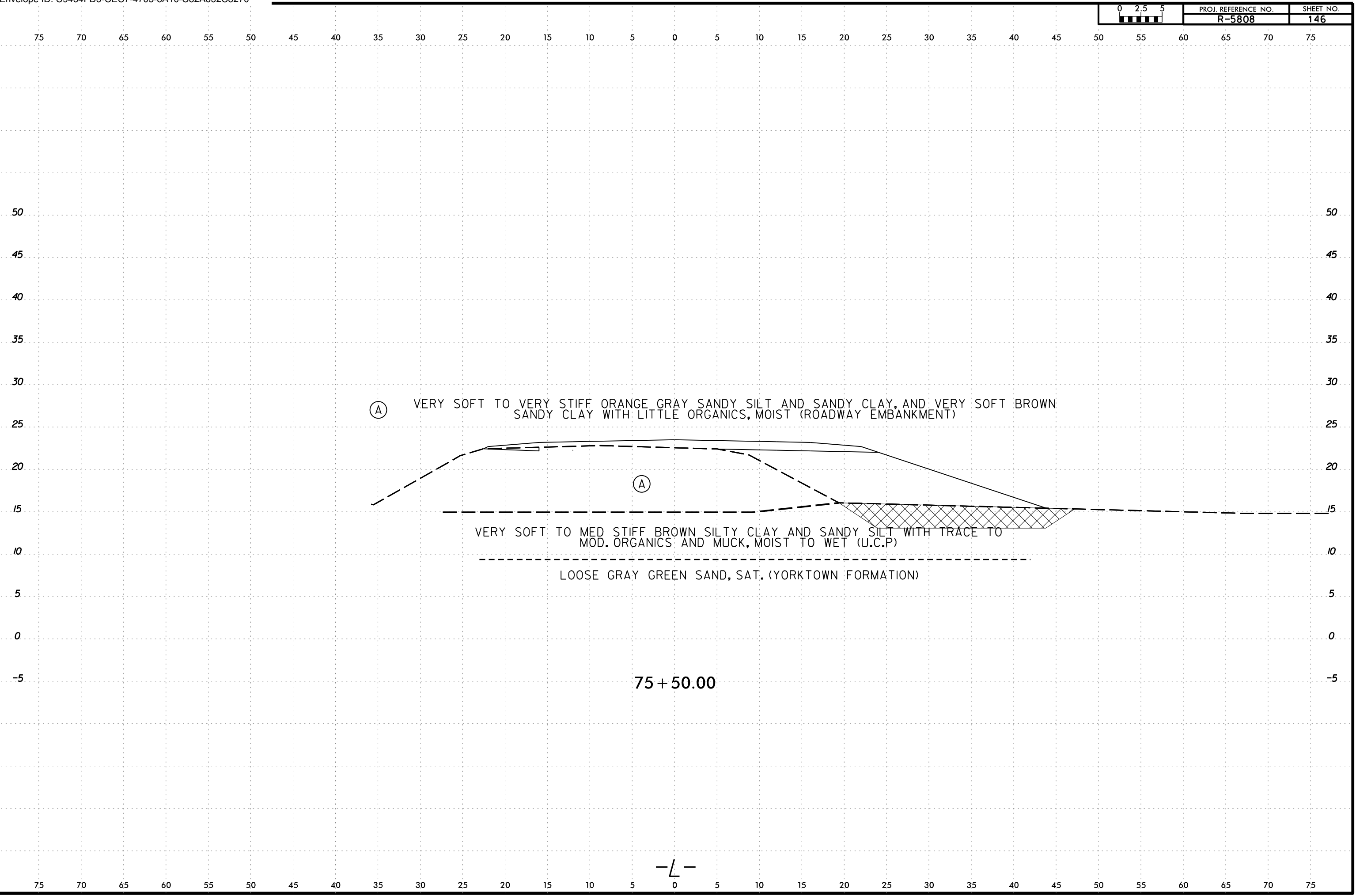
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-066	25 ft RT	75+00	3.5 - 5.5	()	NEM	-	25.1	48.7	9.7	16.5	98.4	92	28	-	8.2
SS-067	25 ft RT	75+00	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	-	-

(A) VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

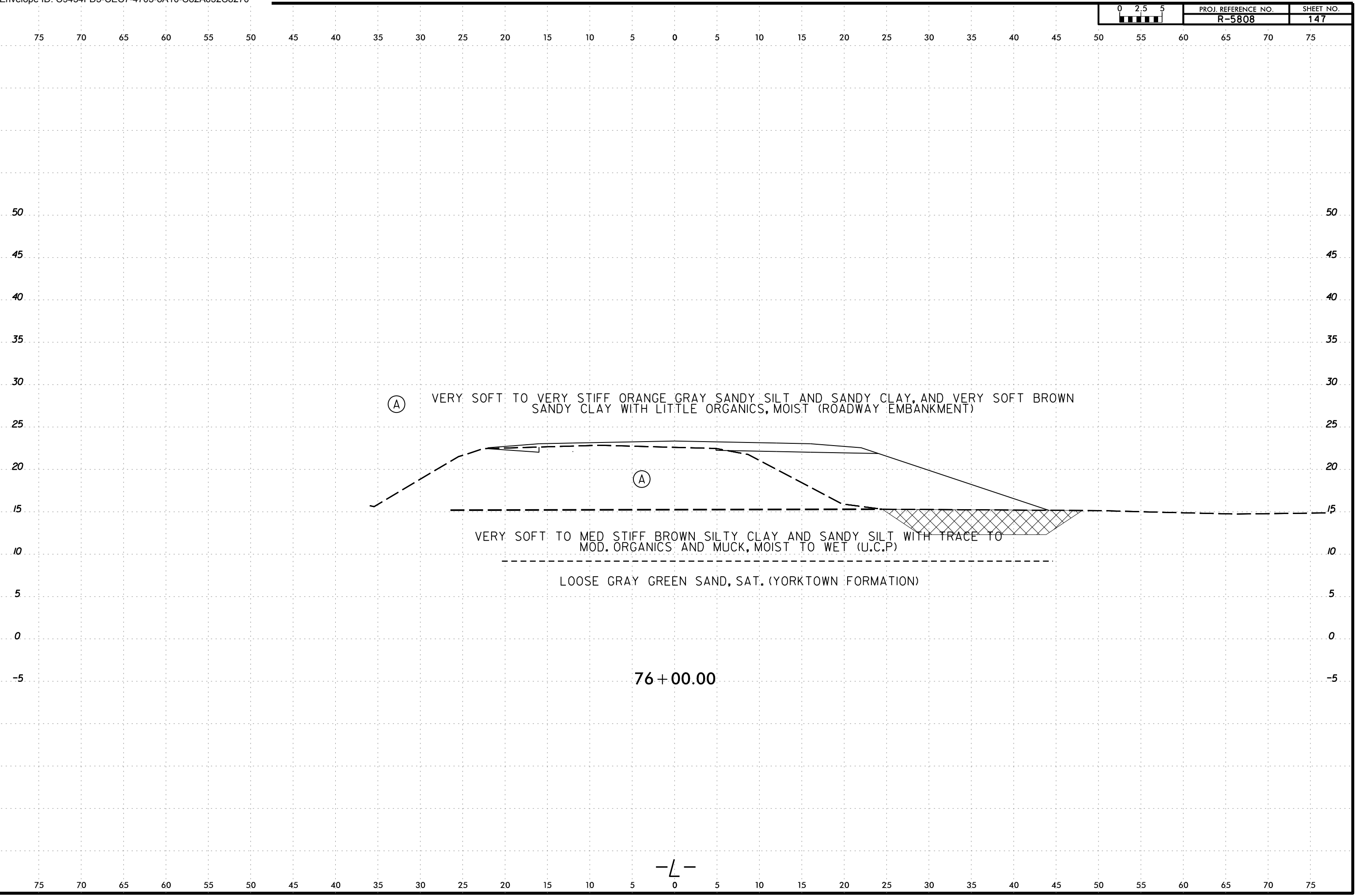


21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\VR5808\_GEO\_XSR.dgn  
 jstone

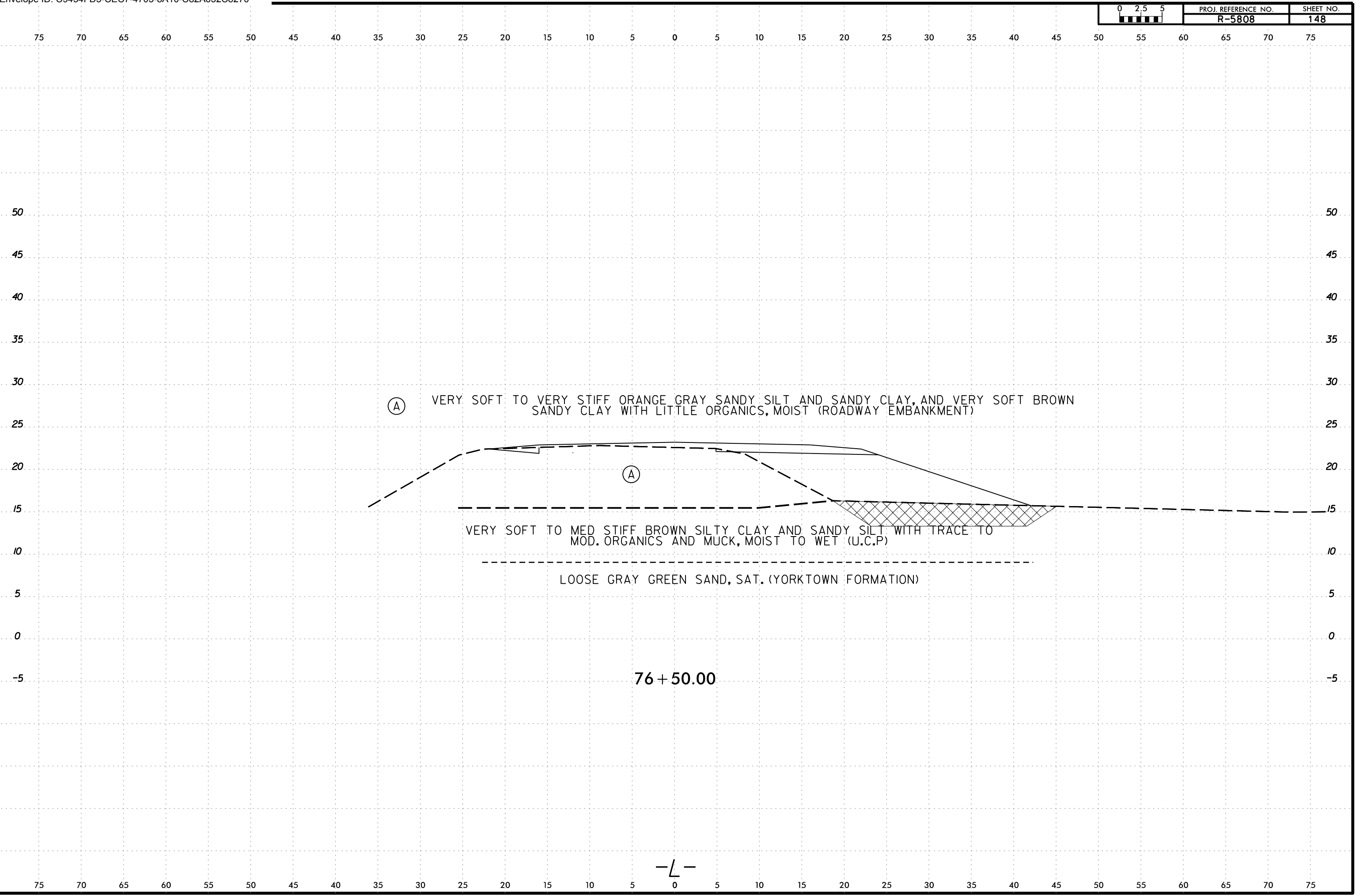
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



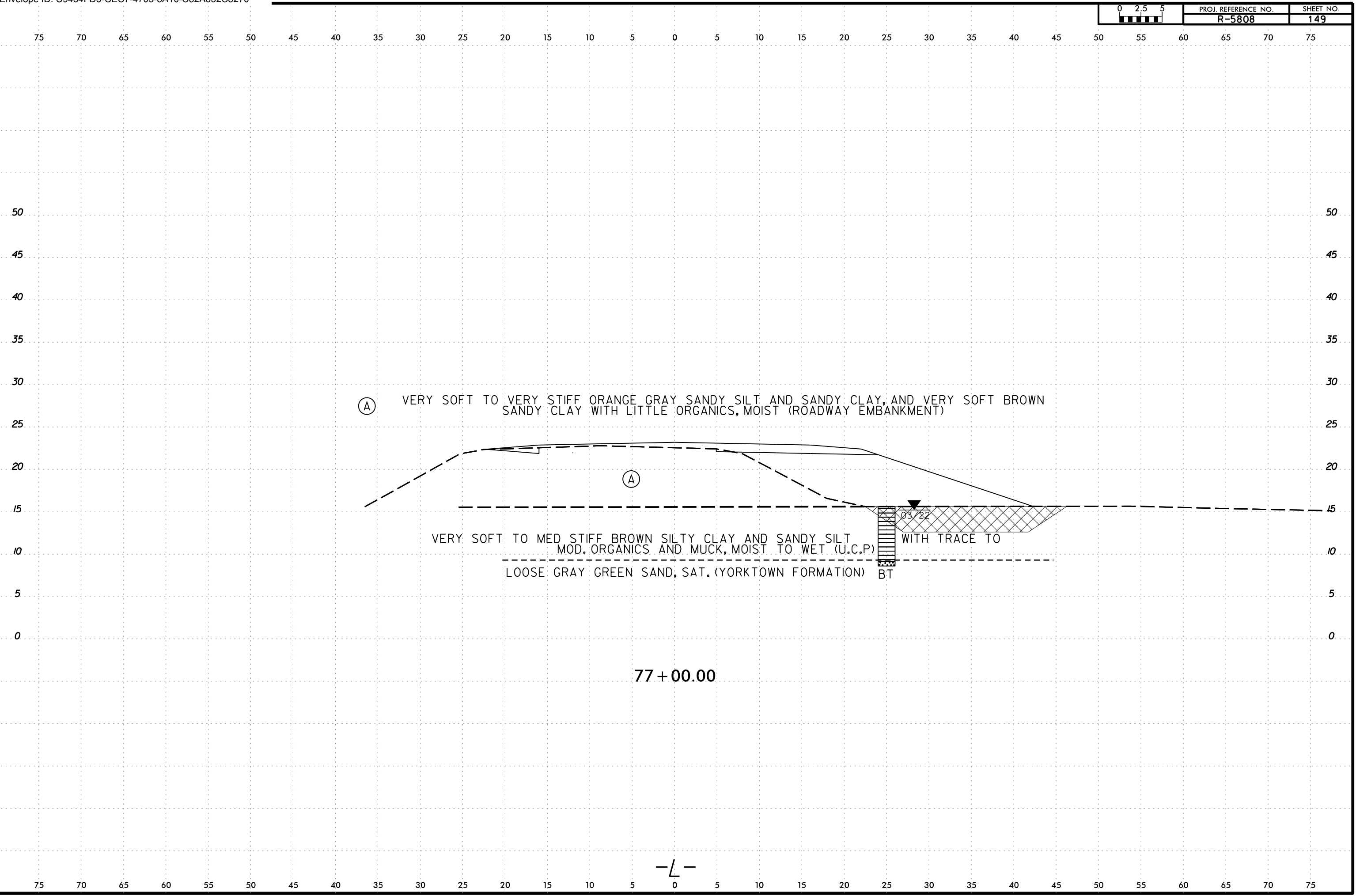
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\VR5808\_GEO\_XSR.dgn  
jstone



6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn



(A) VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

(A)

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

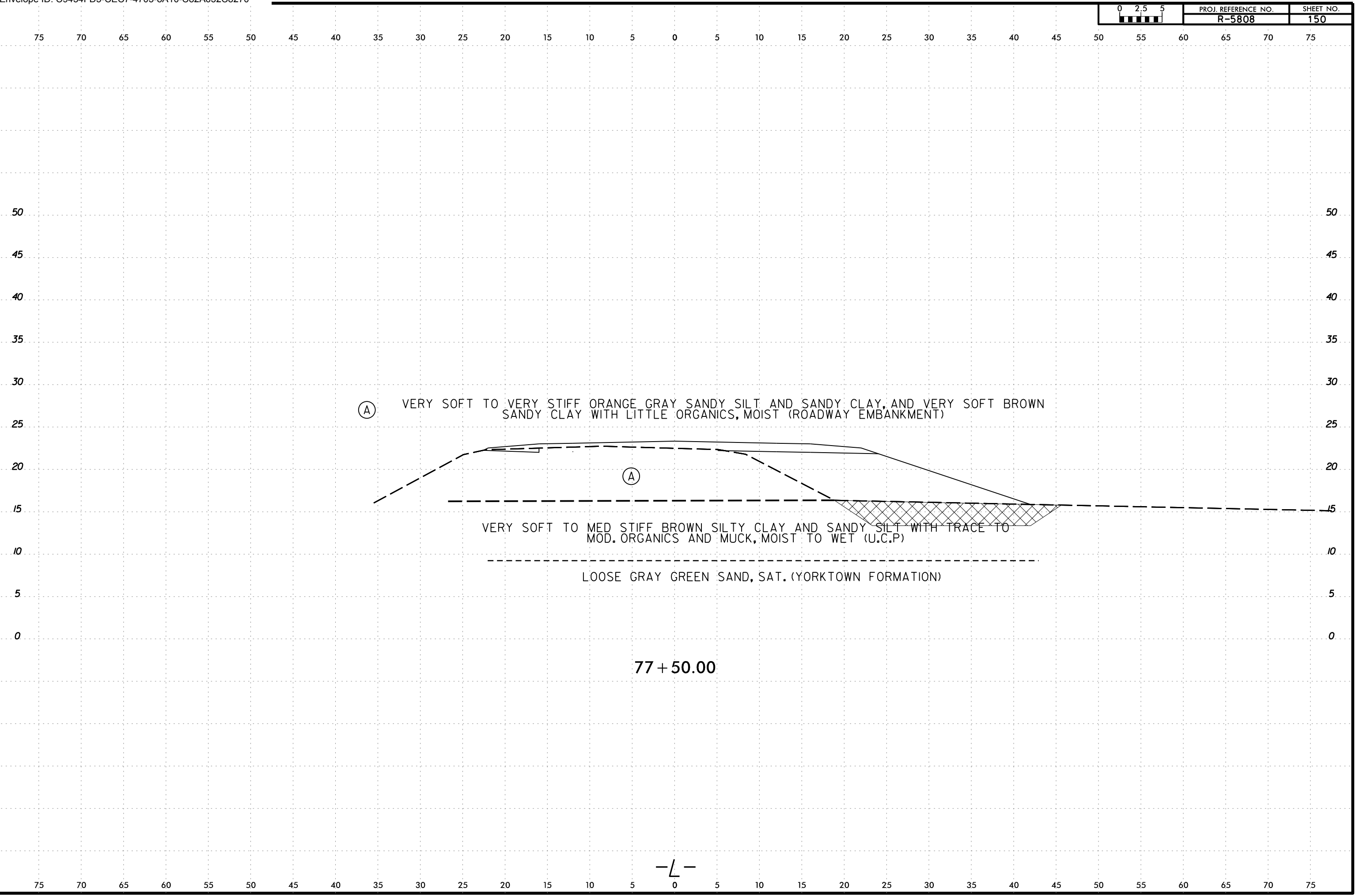
15.72

WITH TRACE TO

77 + 00.00

-L-

6/23/16  
21-MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone

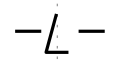


Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

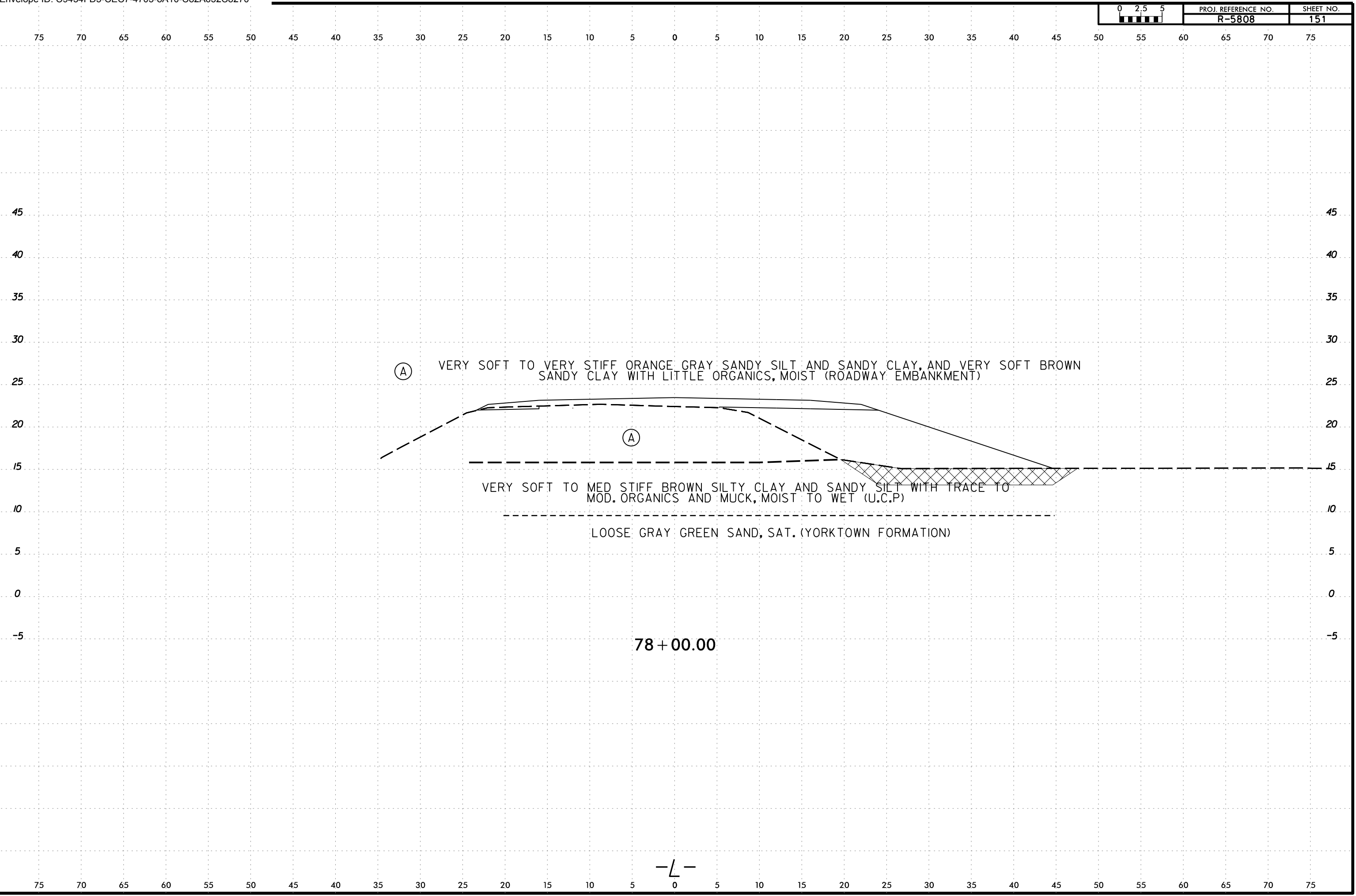
VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

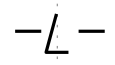
77 + 50.00



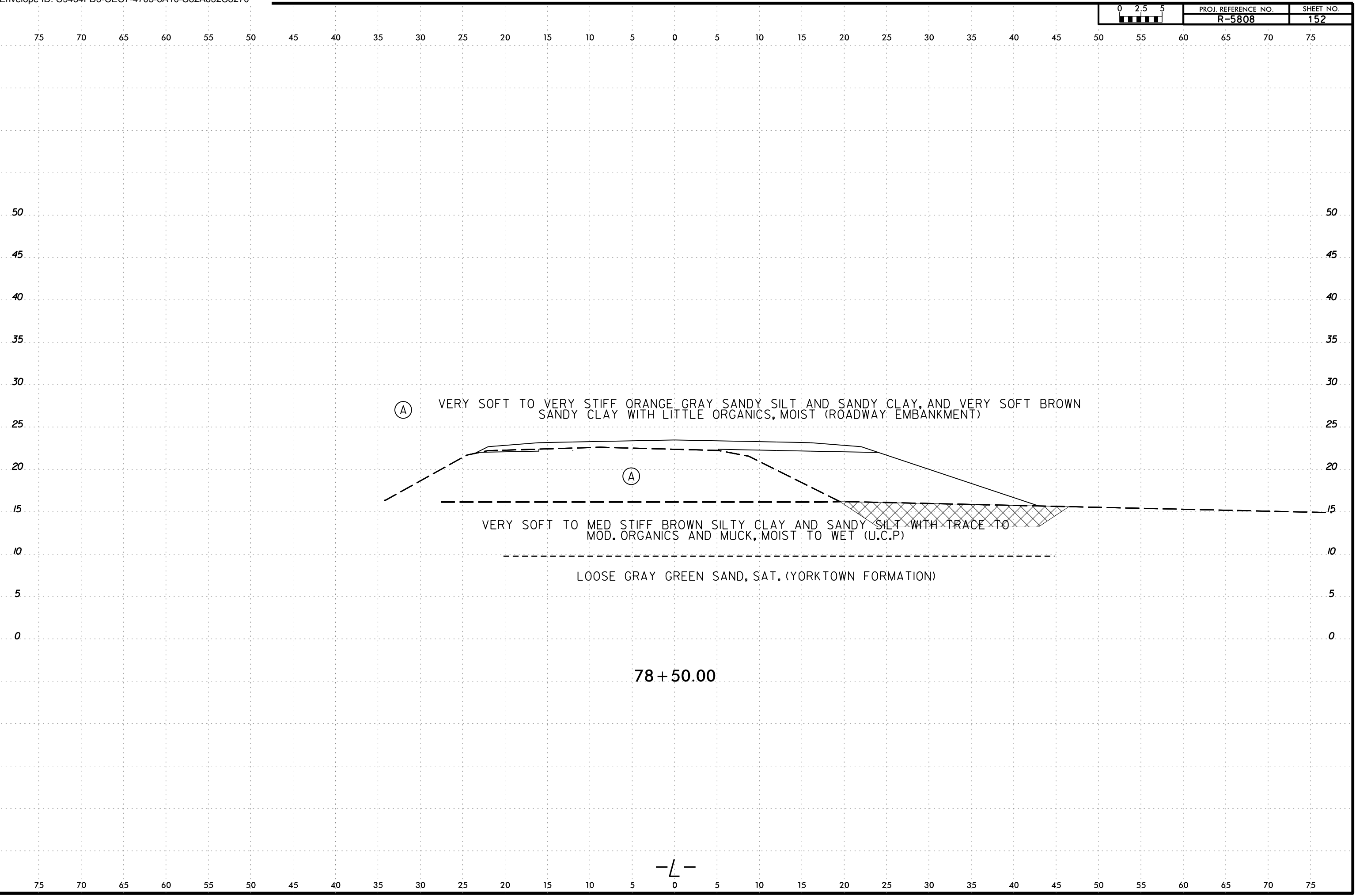
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



78 + 00.00



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone





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-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

(A) VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

(A)

S-135

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY MOD. ORGANICS AND MUCK, MOIST TO WET

03/23  
SILT WITH TRACE TO (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

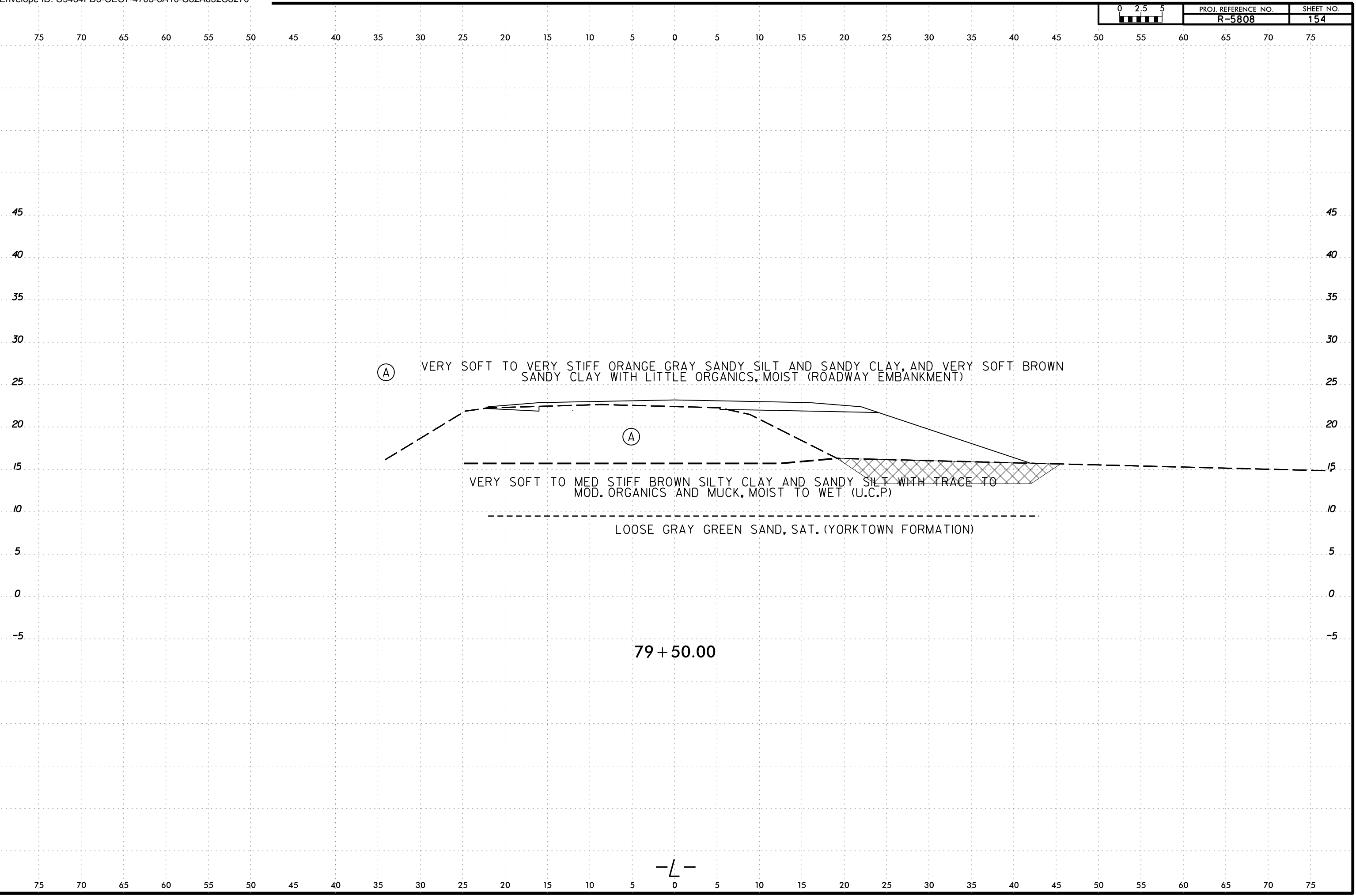
79 + 00.00

-L-

2-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
 jstone

6/23/16

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



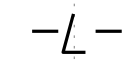
Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

Ⓐ

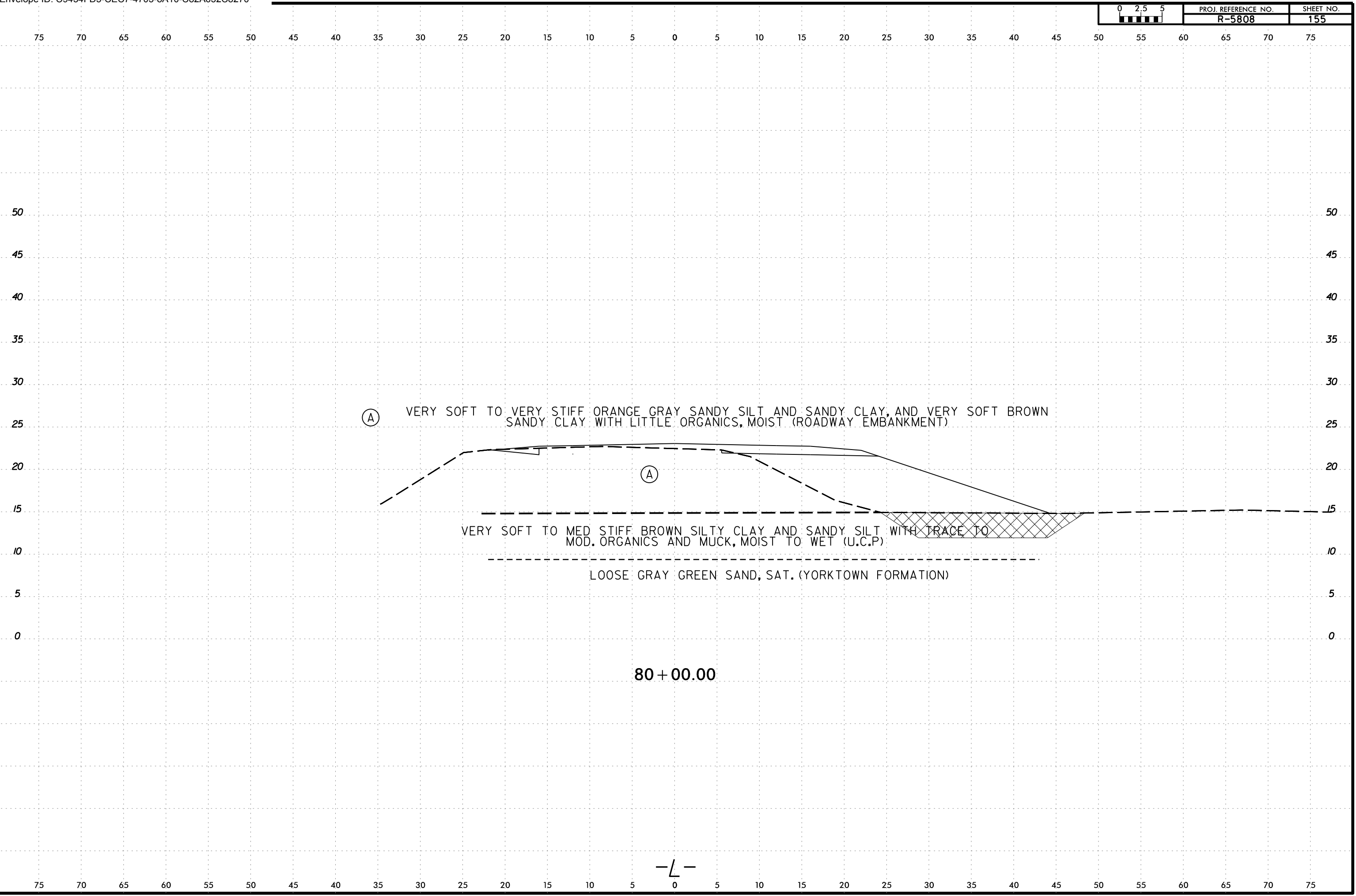
VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

79 + 50.00



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\CADD\GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone



Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

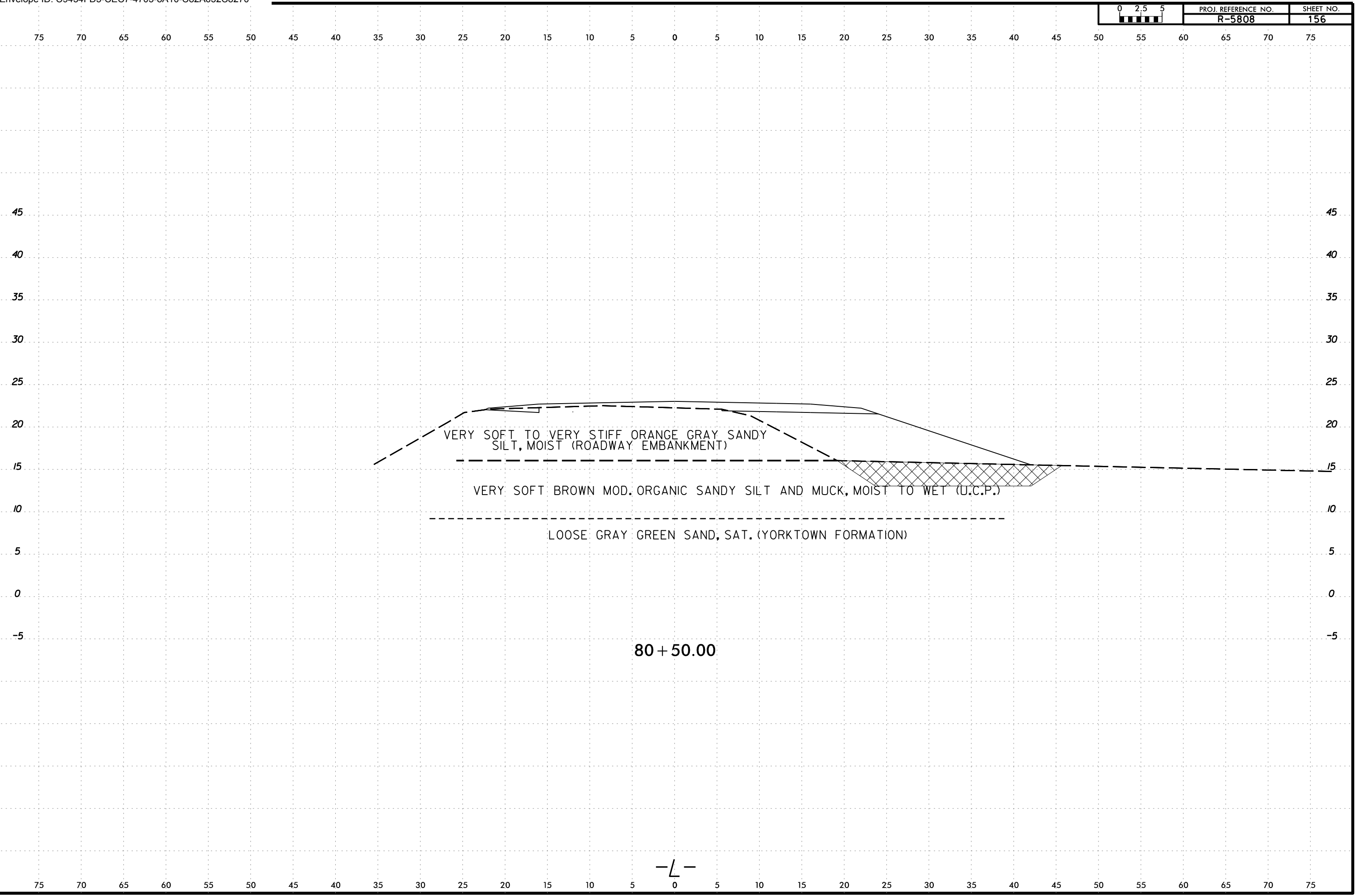
VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

80 + 00.00

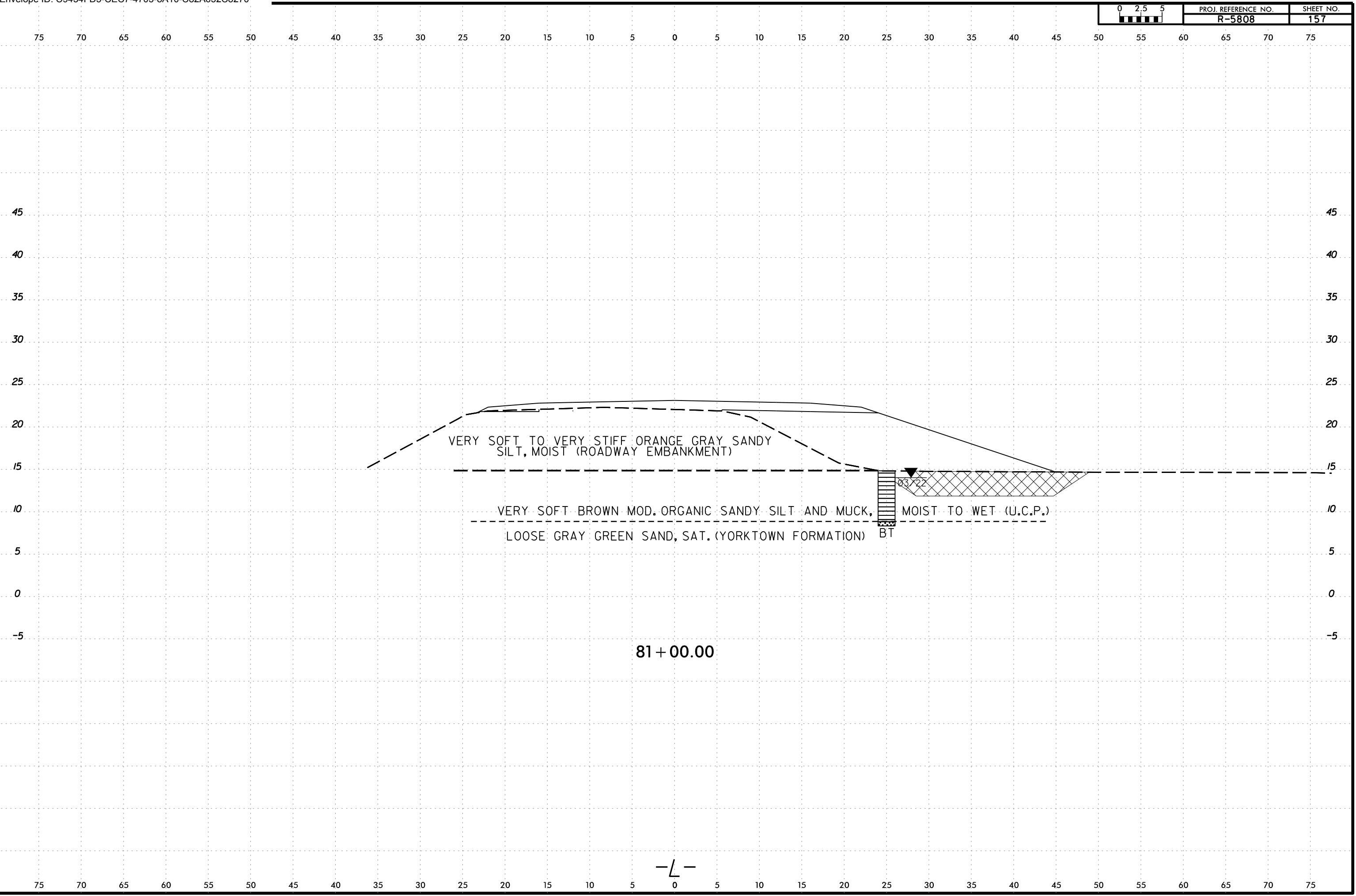
—L—

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn  
jstone

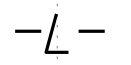
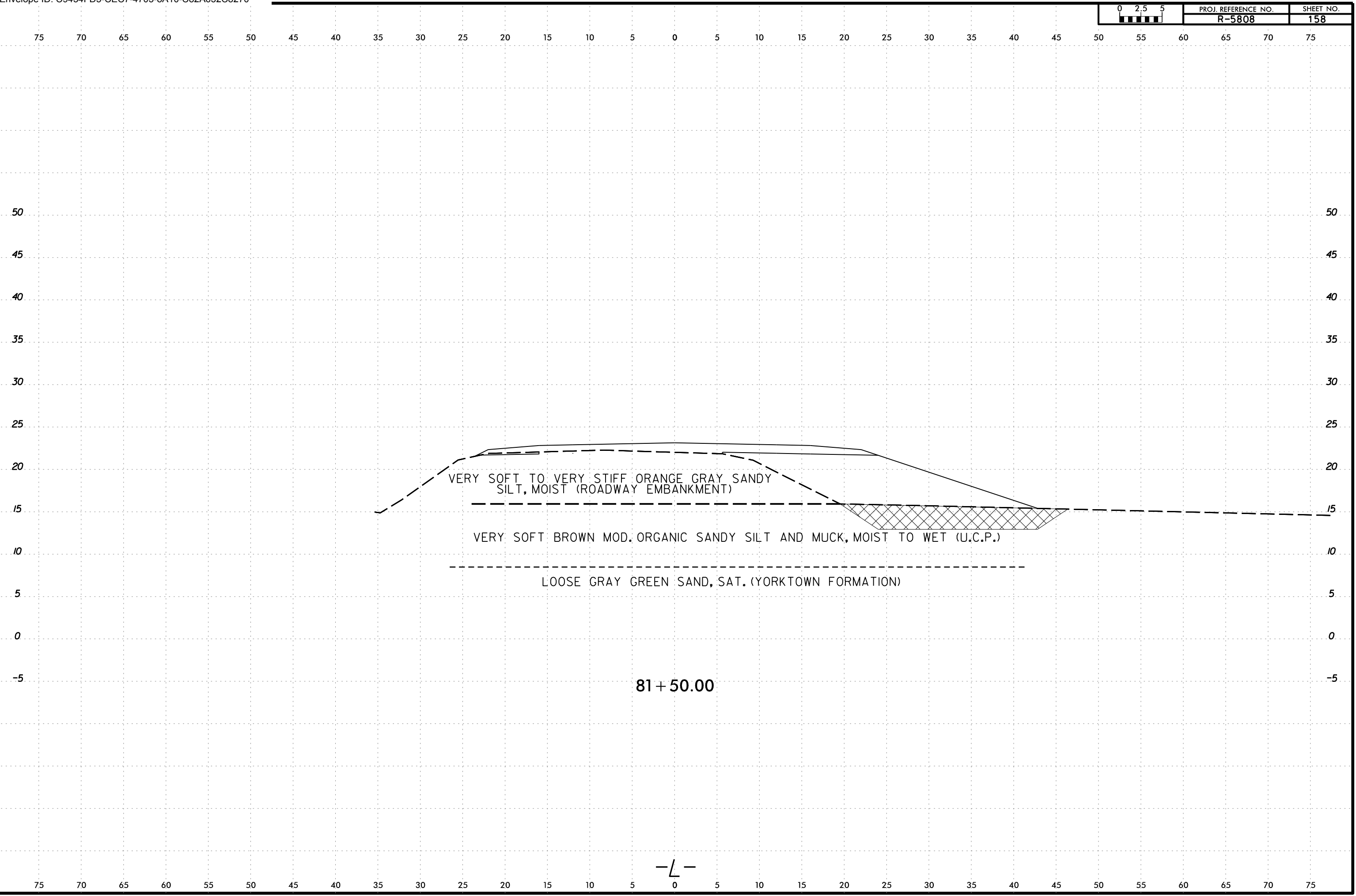


-L-

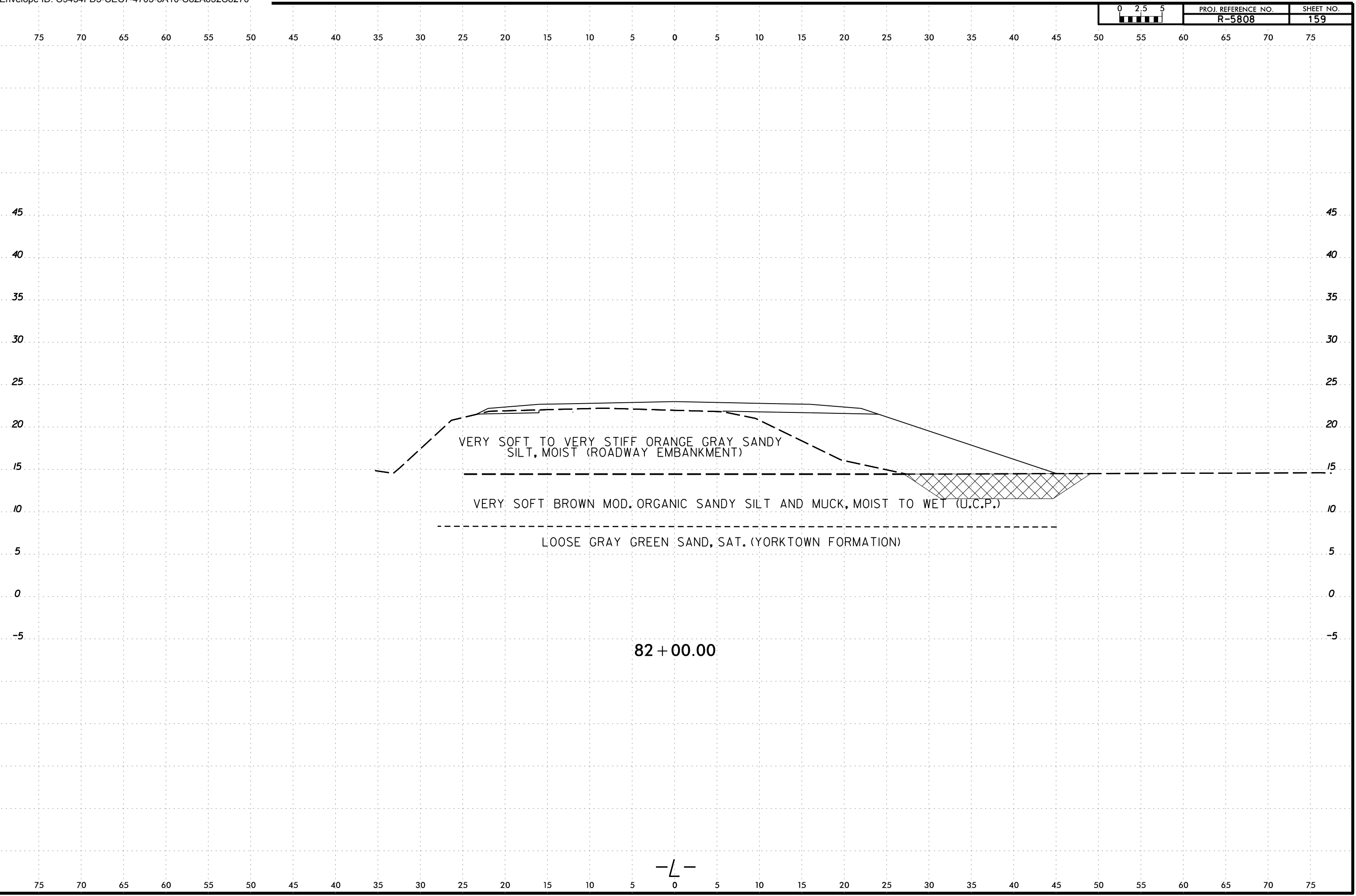
6/23/16  
21-MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



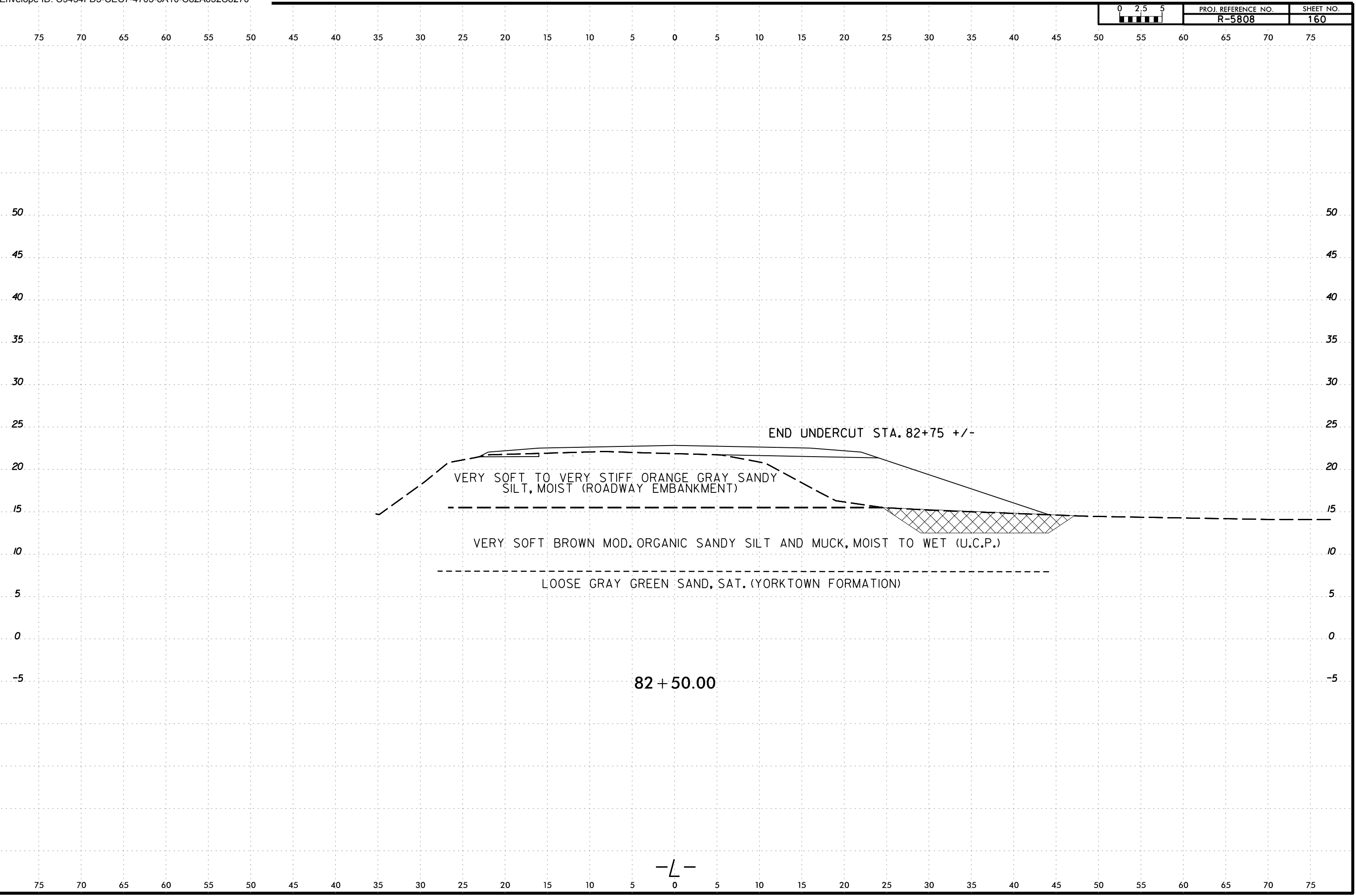
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



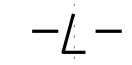
END UNDERCUT STA. 82+75 +/-

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

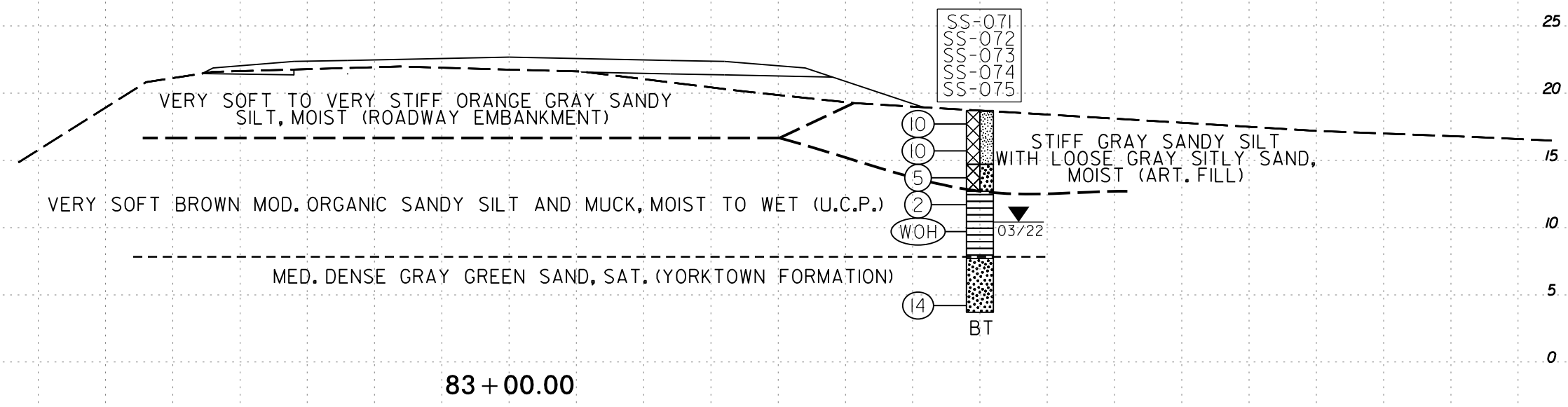
LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

82 + 50.00





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-071	25 ft RT	83+00	2.0 - 4.0	A-4(2)	23	8		
SS-072	25 ft RT	83+00	4.0 - 6.0	A-2-4(0)	NP	NP	21.8	58.0	13.8	6.4	99.3	94	24	-	-
SS-073	25 ft RT	83+00	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	11.3
SS-074	25 ft RT	83+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	7.5
SS-075	25 ft RT	83+00	13.5 - 15.0	A-2-4(0)	NP	NP	33.8	49.0	7.1	10.1	100	90	20	-	-

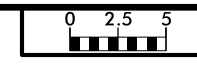


83 + 00.00

-L-

21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\SSC\RS808L\_GEO\_XSR.dgn  
 jstone

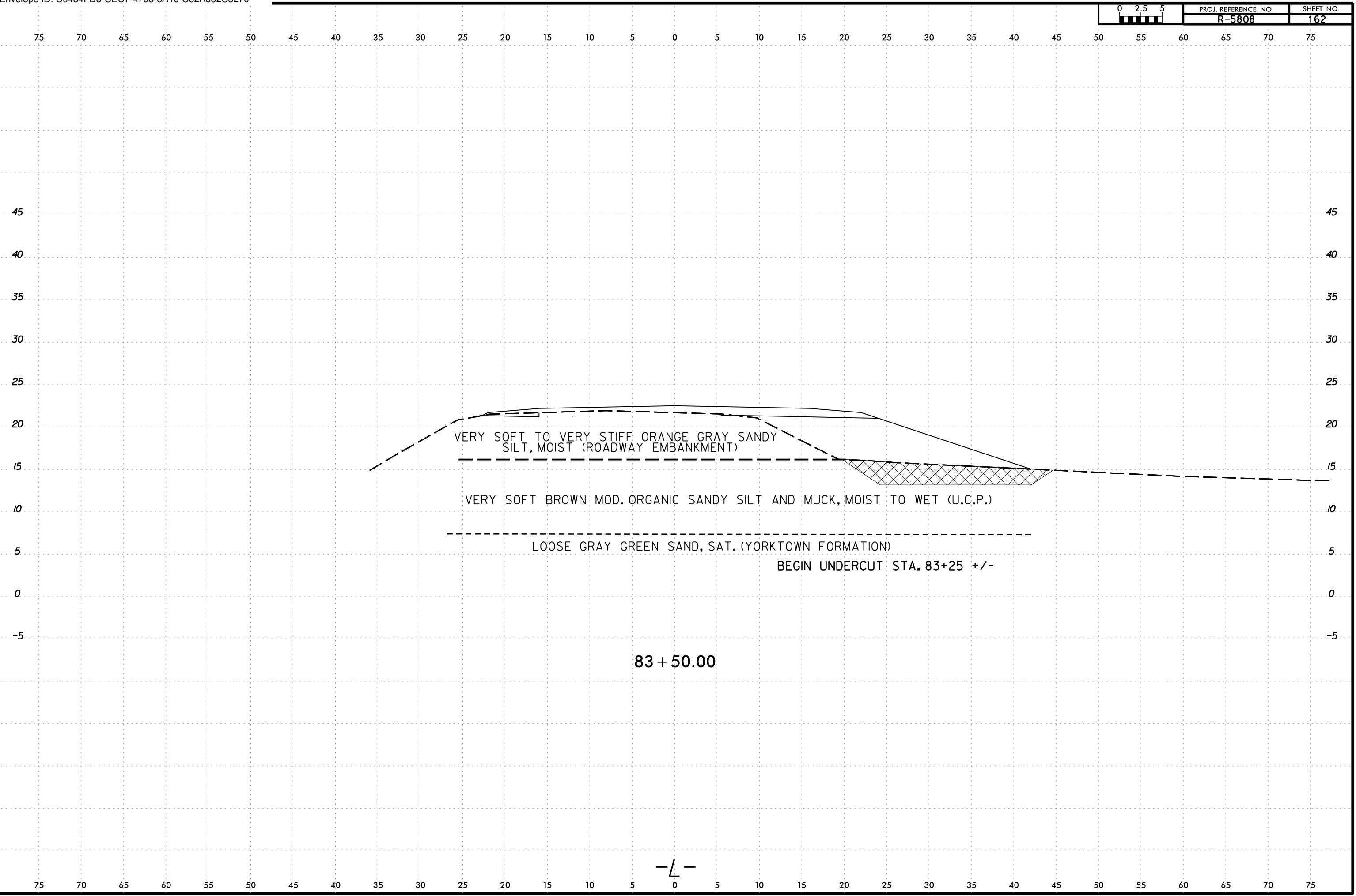
6/23/16



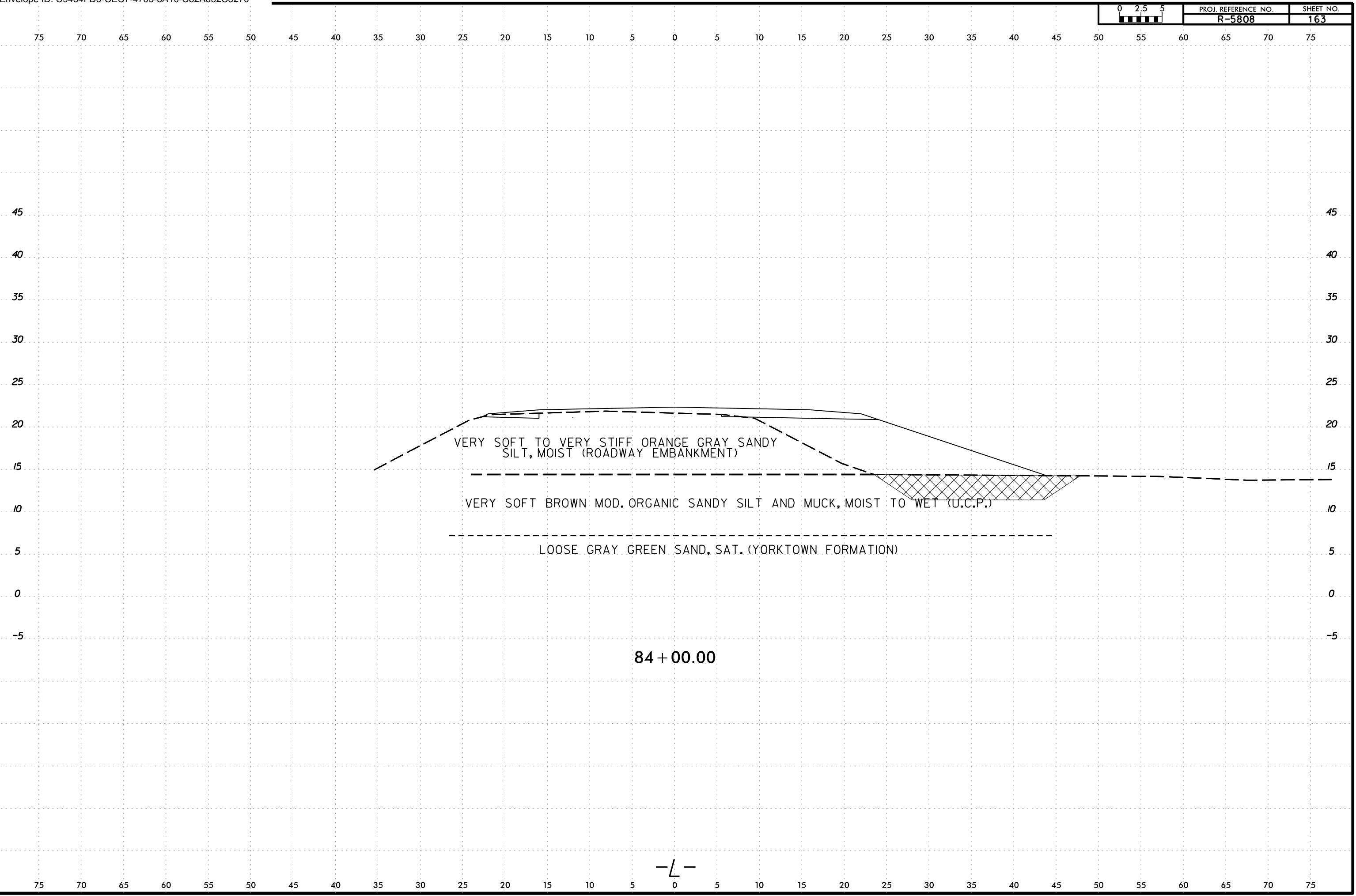
PROJ. REFERENCE NO.	SHEET NO.
R-5808	162

6/23/16

C:\Users\istone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RE808\_GED\_RDMY\RE808\_GED\_RDMY\CADD\_GED\GEO\TECH\XSC\RE808L\_GEO\_XSR.dgn  
 21MAY-2024 16:47  
 C:\Users\istone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RE808\_GED\_RDMY\RE808\_GED\_RDMY\CADD\_GED\GEO\TECH\XSC\RE808L\_GEO\_XSR.dgn

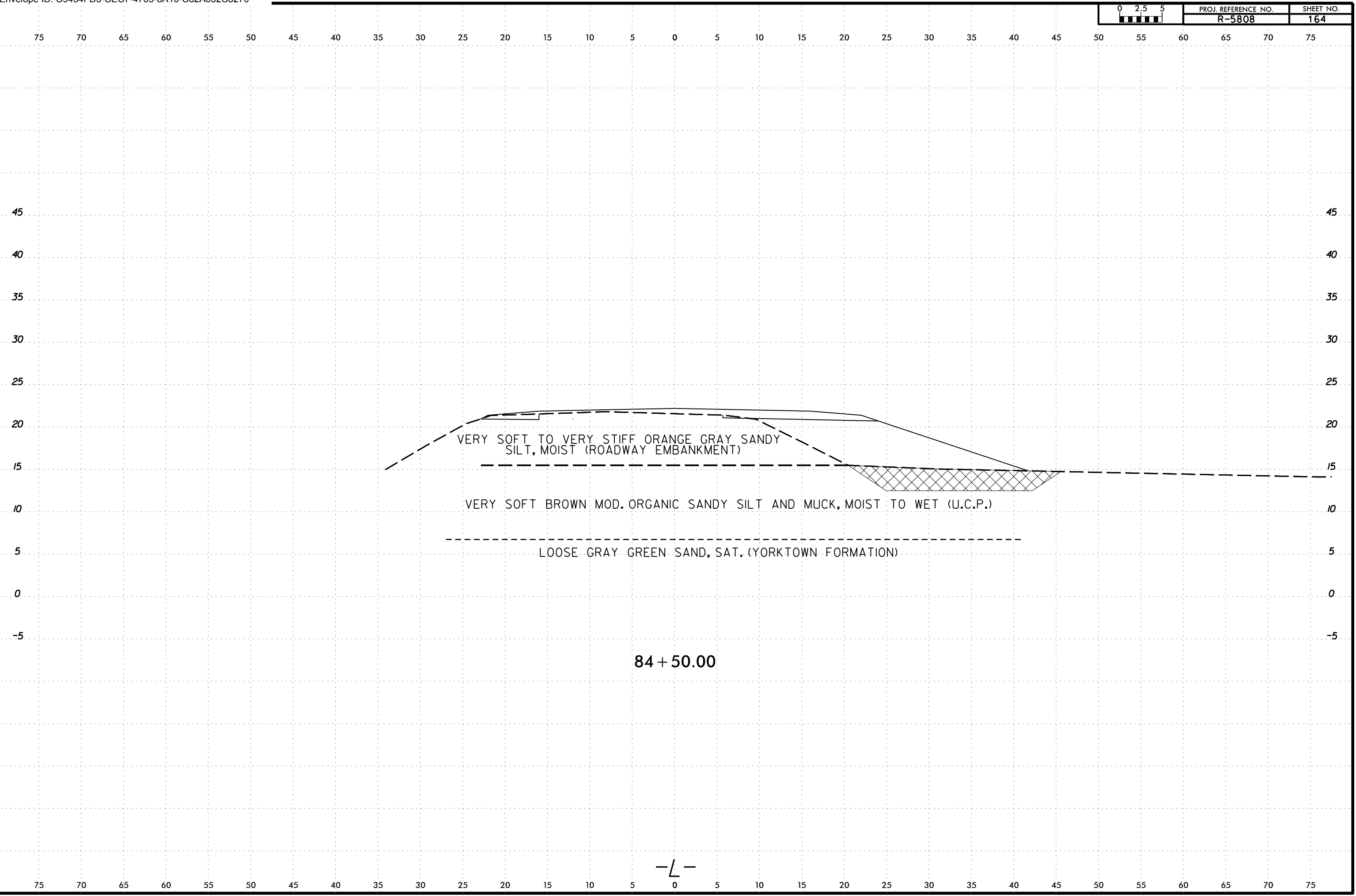


6/23/16  
2\MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

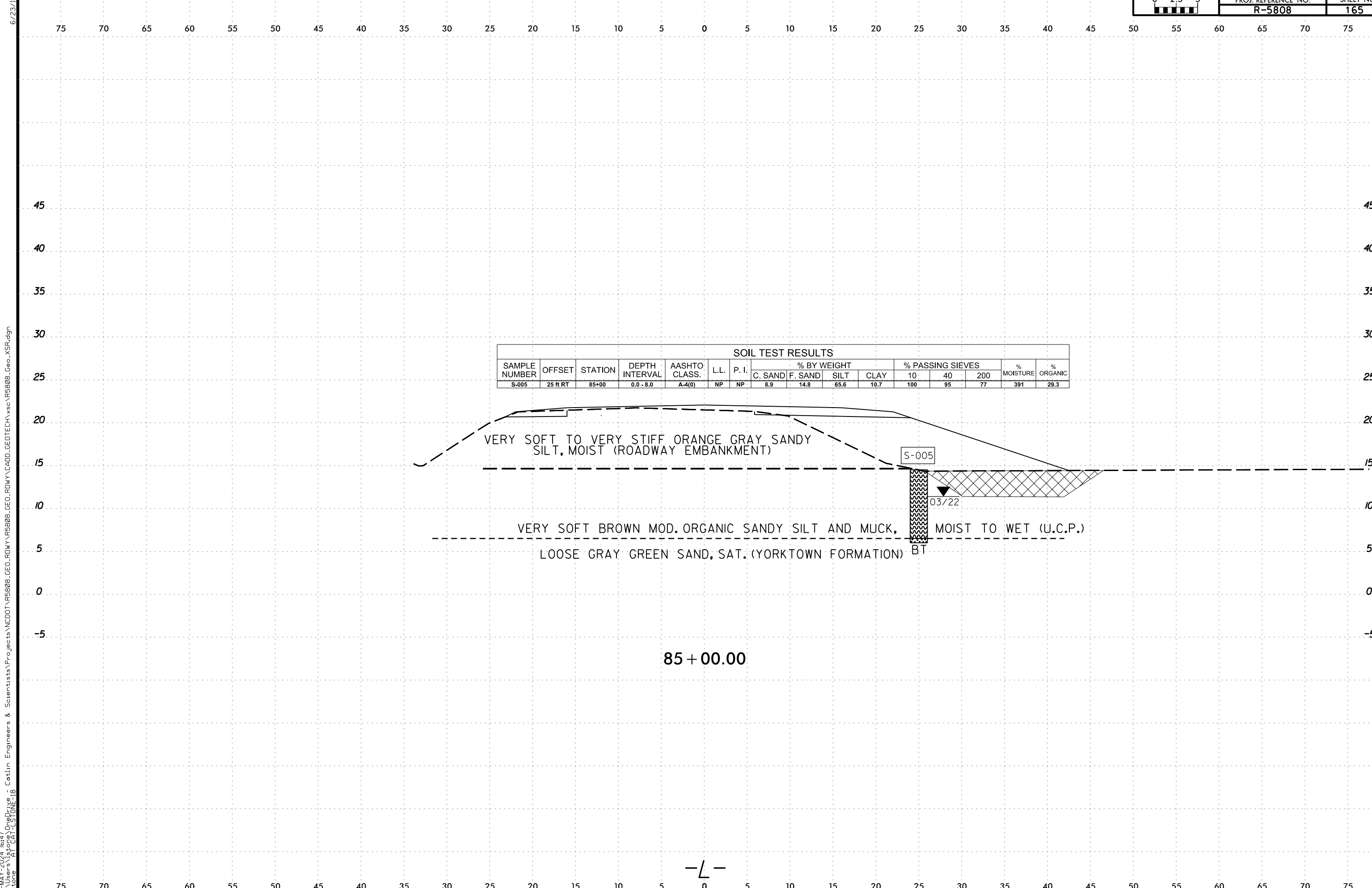


-L-

6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



-L-



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

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

S-005

03/22

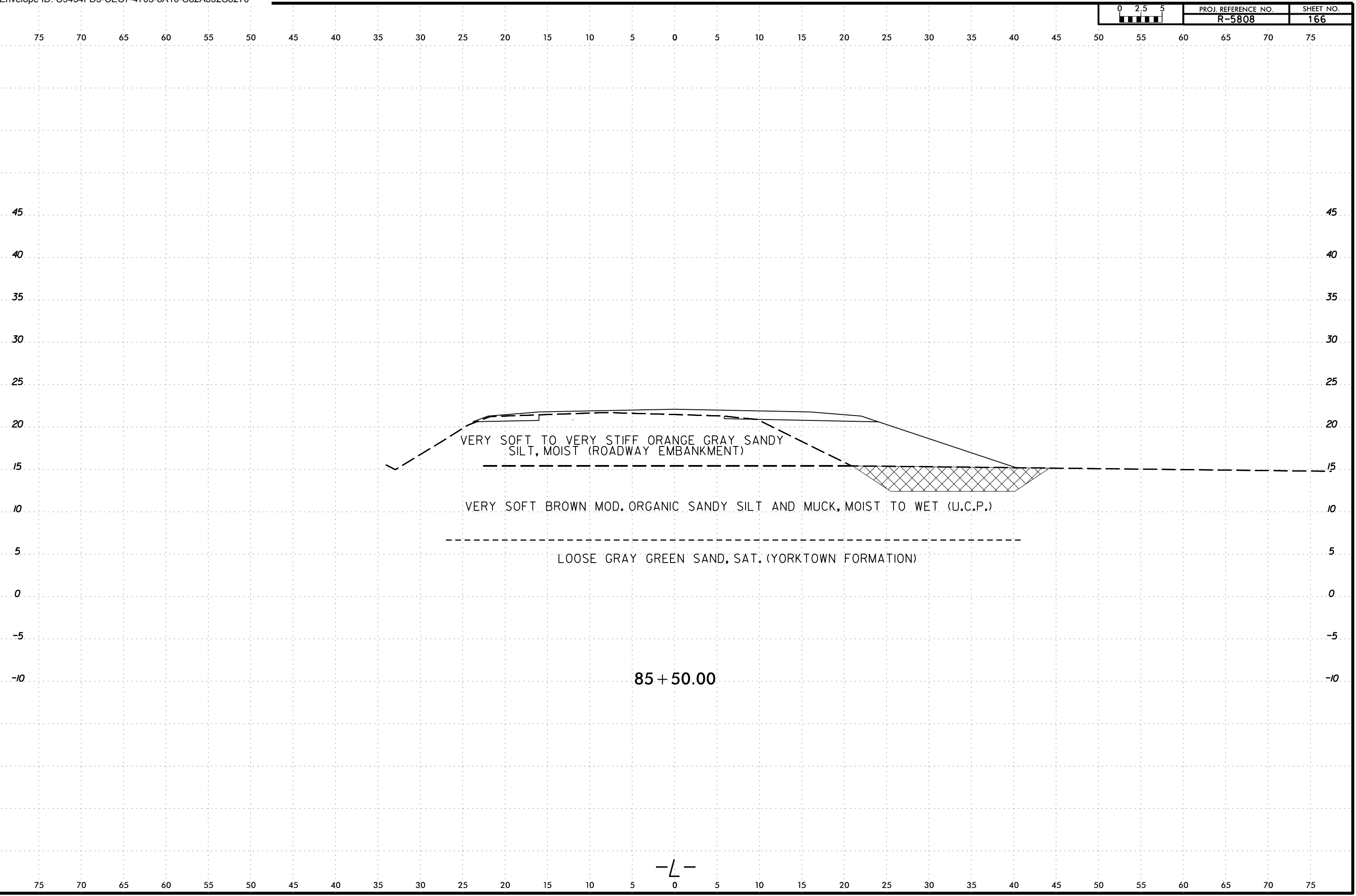
BT

85 + 00.00

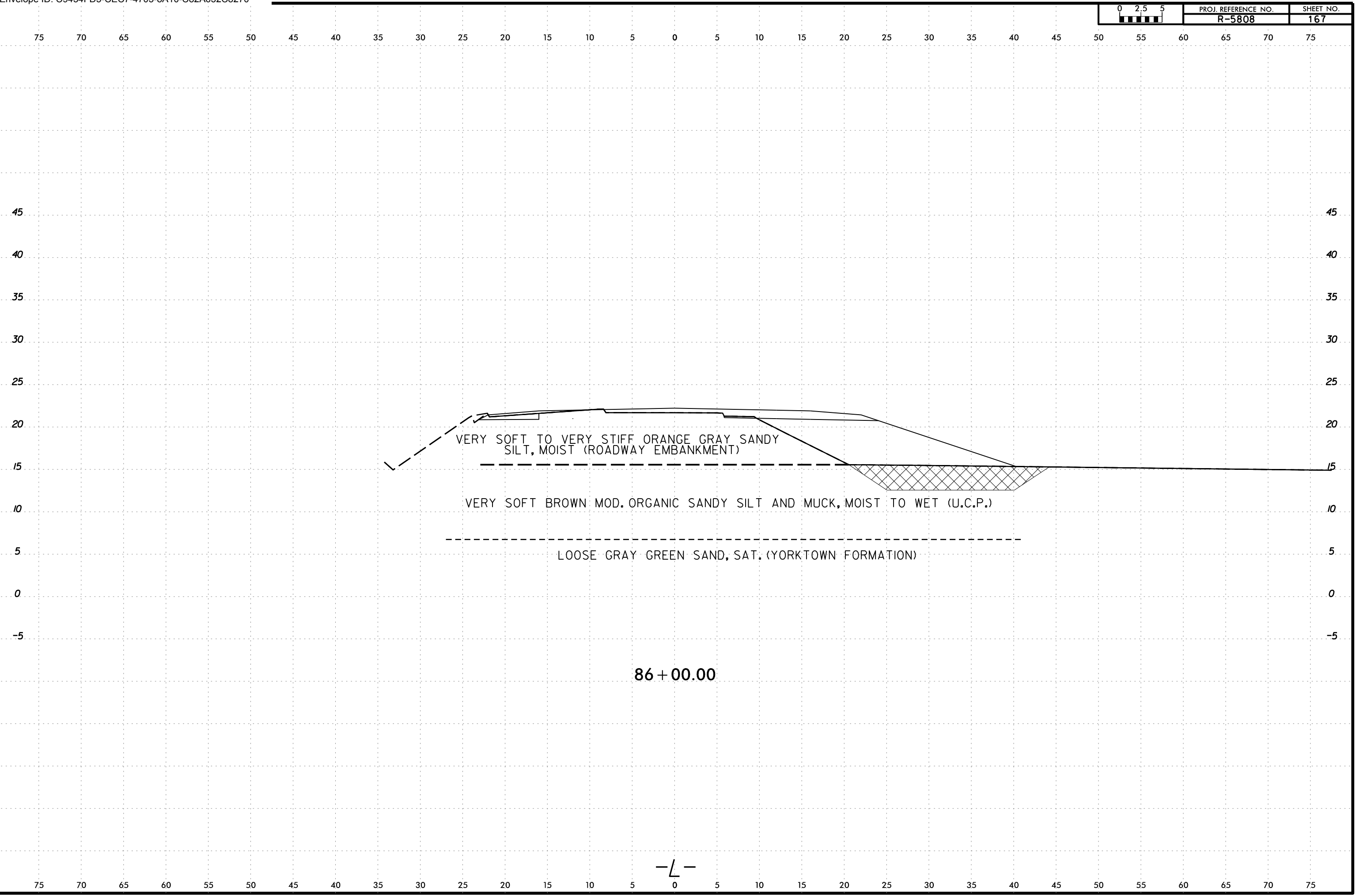
-L-

21-MAY-2024 16:47  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR.dgn  
 jstone

6/23/16  
2\MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

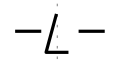


VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

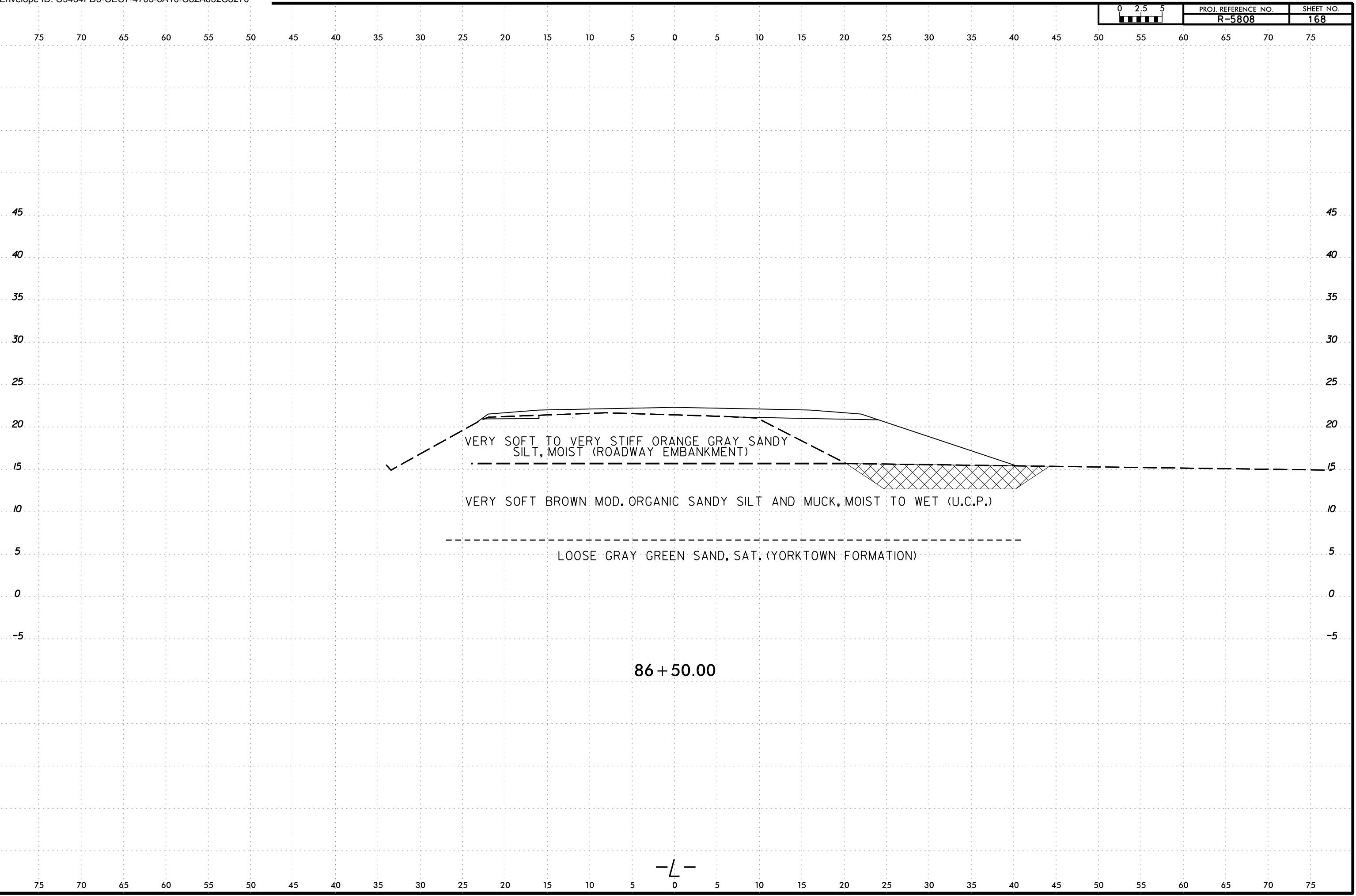
VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

86 + 00.00



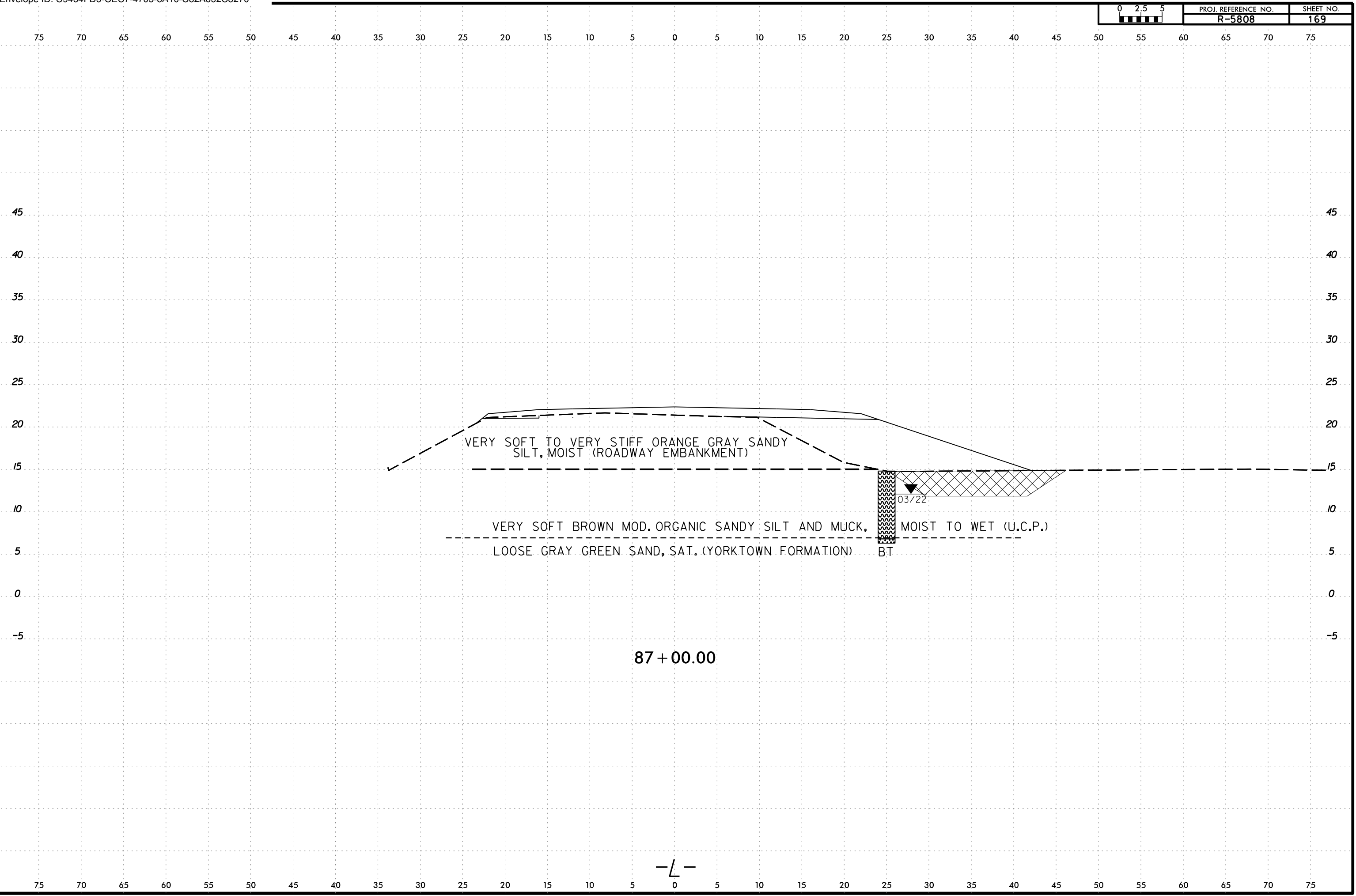
6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



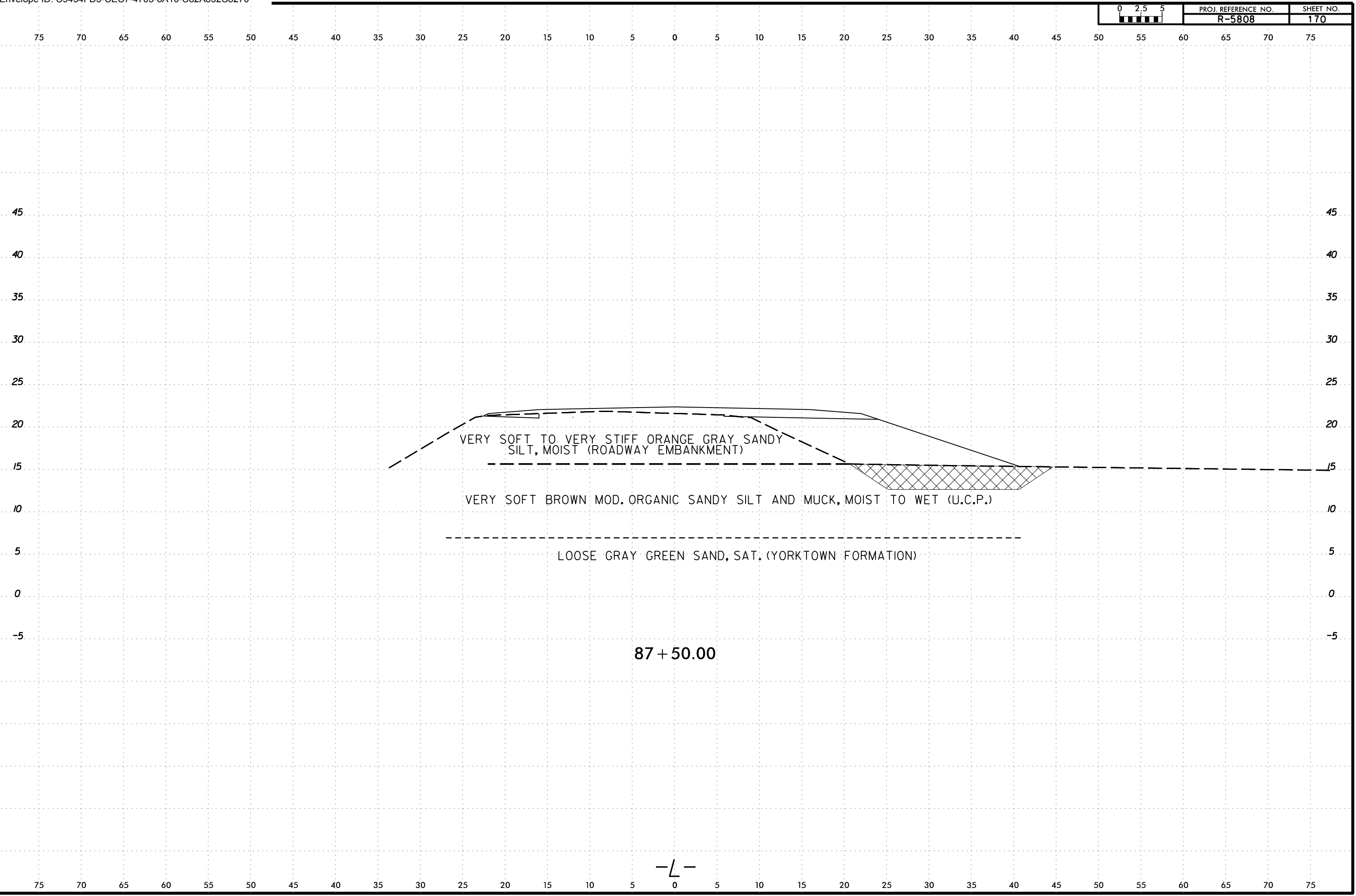
-L-



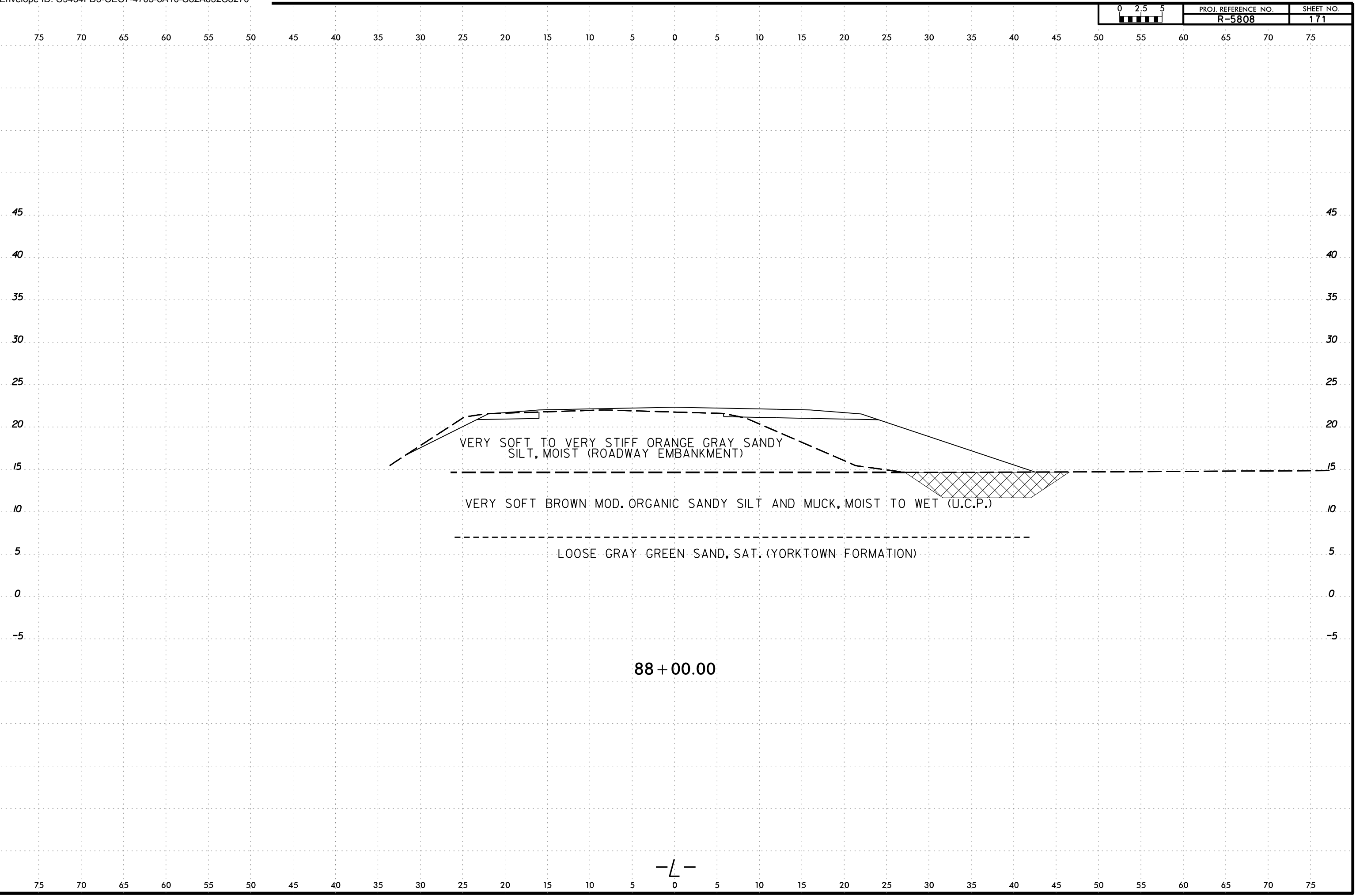
6/23/16  
21-MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:47  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

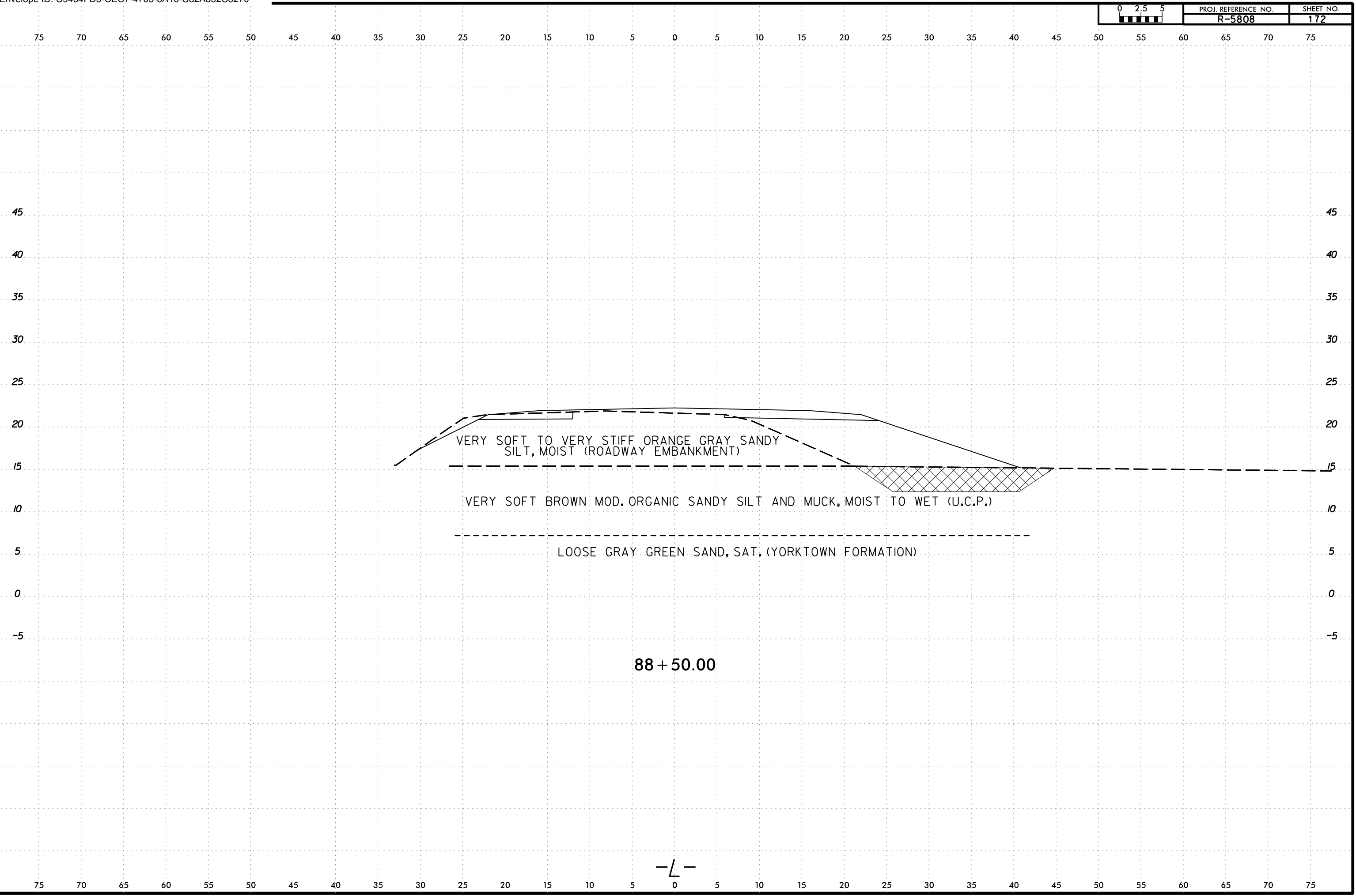


6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR.dgn  
jstone

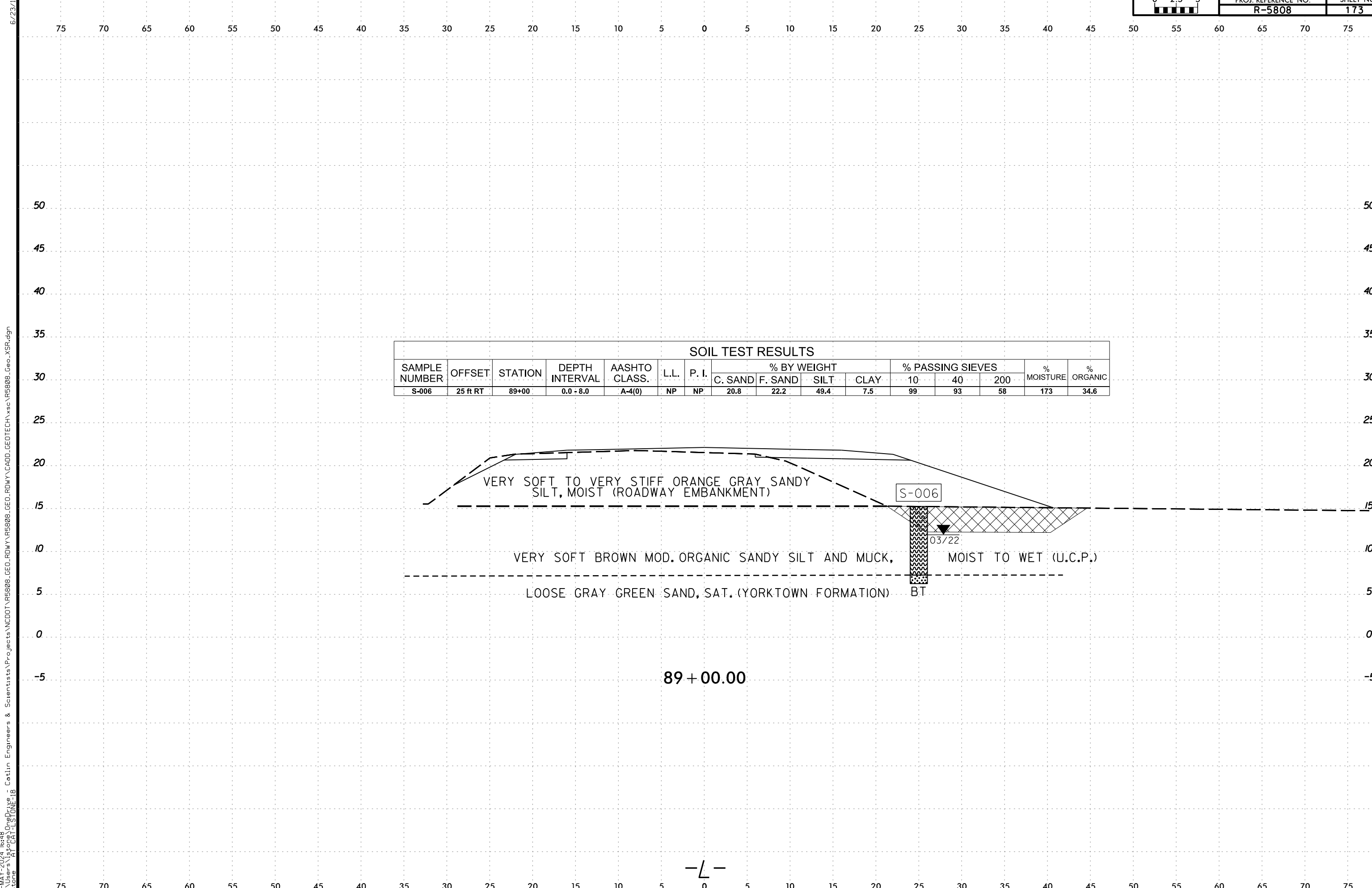


-L-

6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



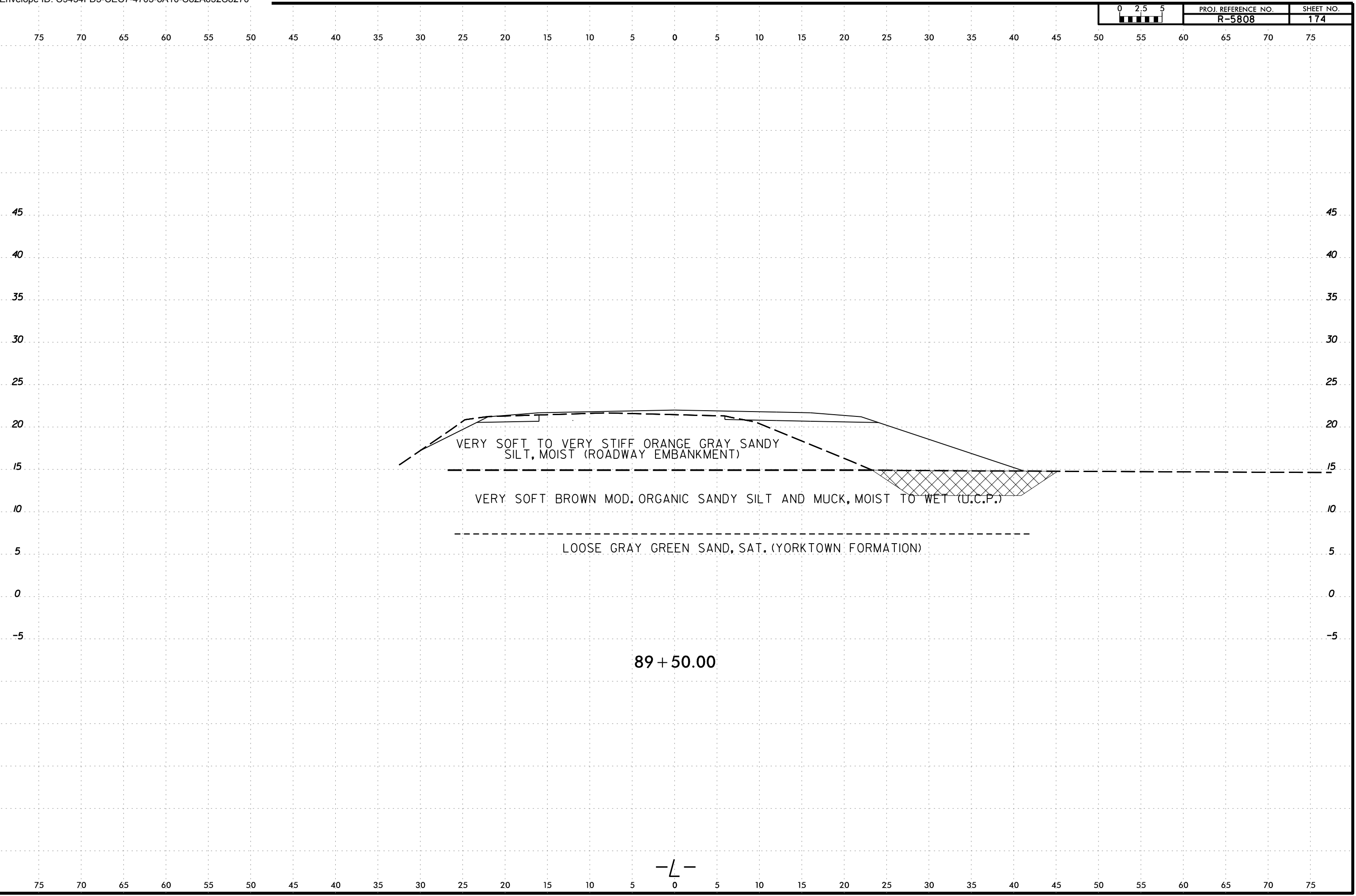
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-006	25 ft RT	89+00	0.0 - 8.0	A-4(0)	NP	NP	20.8	22.2	49.4	7.5	99	93	58	173	34.6



21-MAY-2024 16:48  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS5808L\_GEO\_XSR.dgn  
 jstone

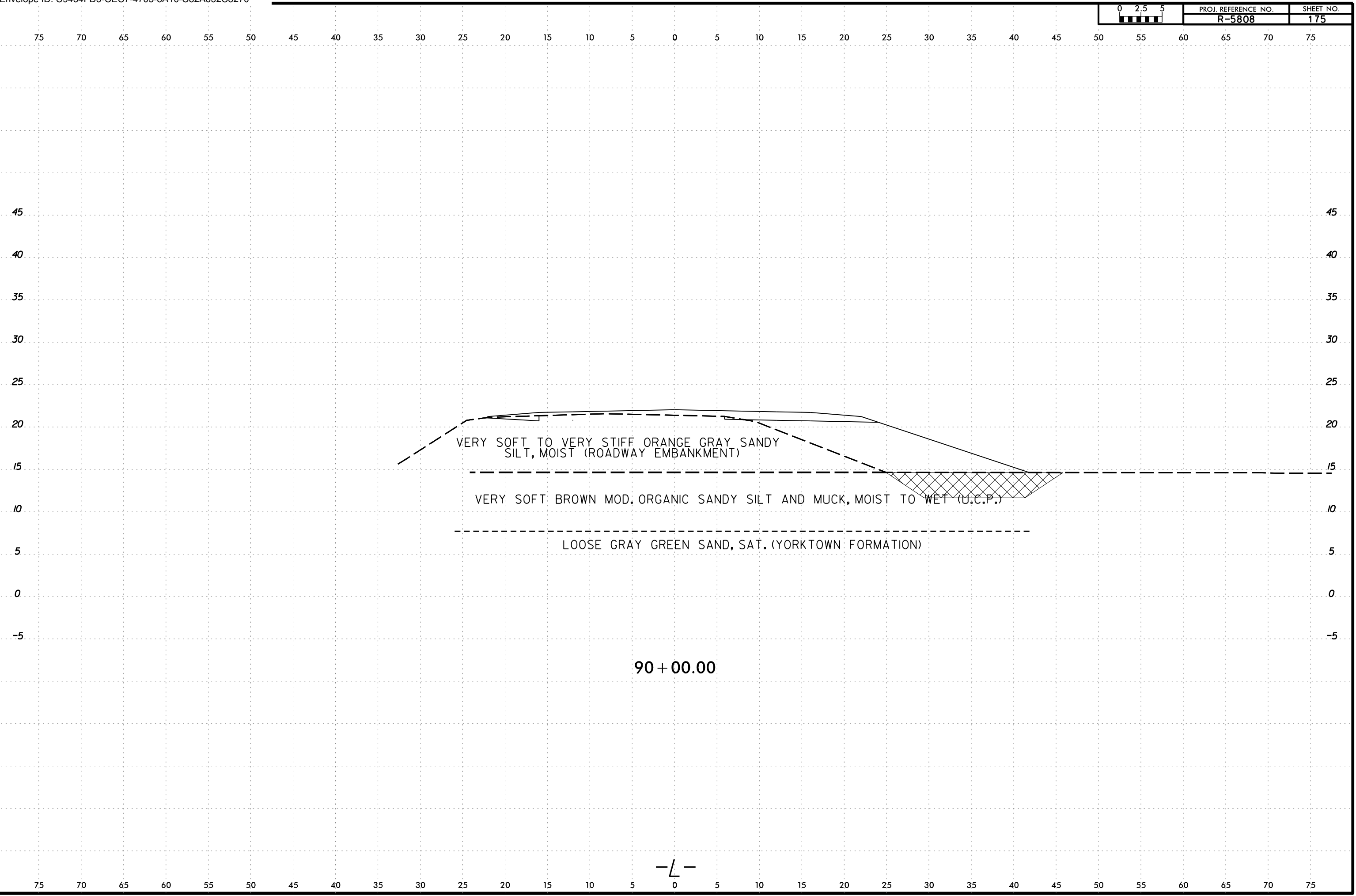
-L-

6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



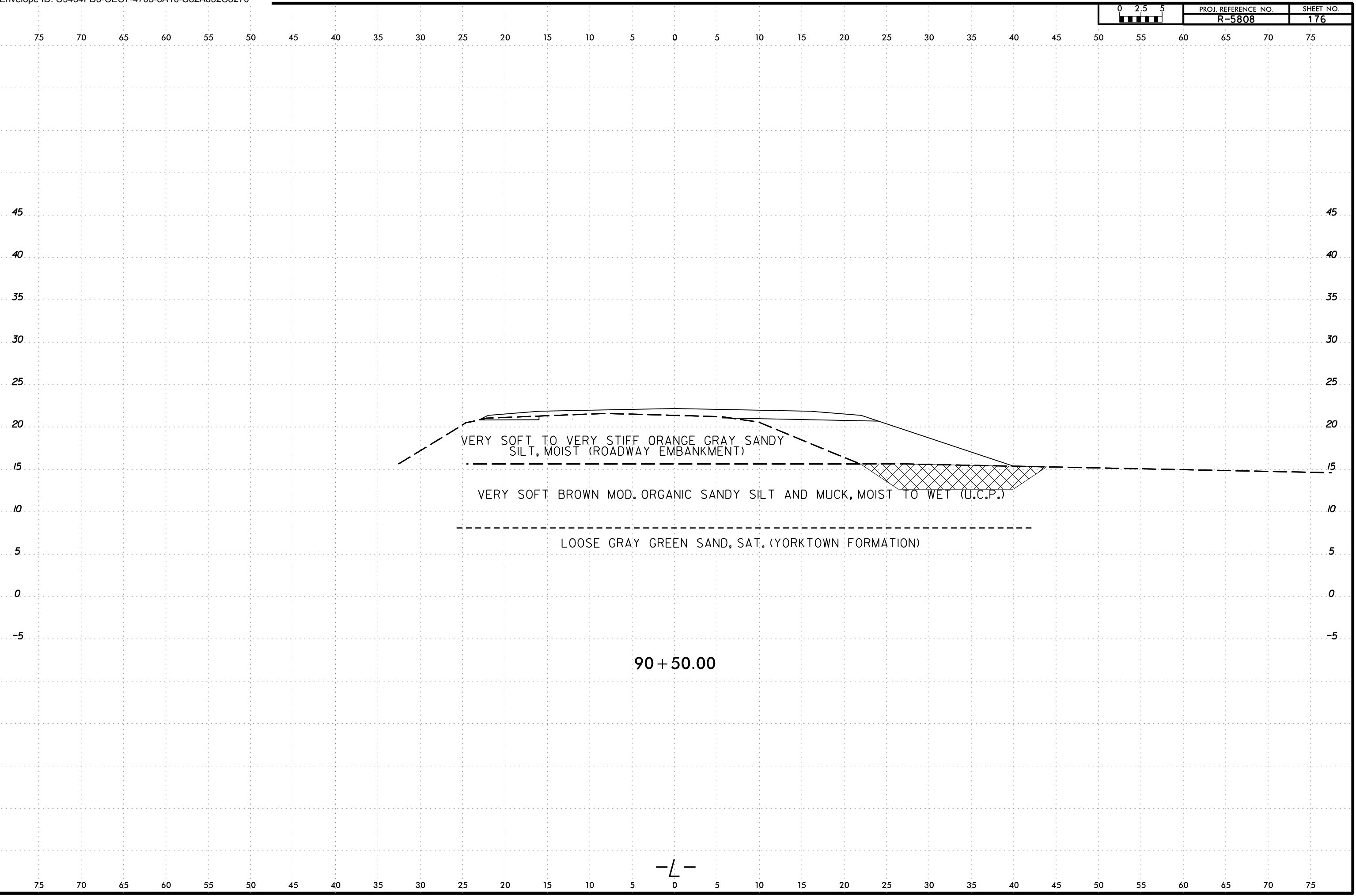
-L-

6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



—L—

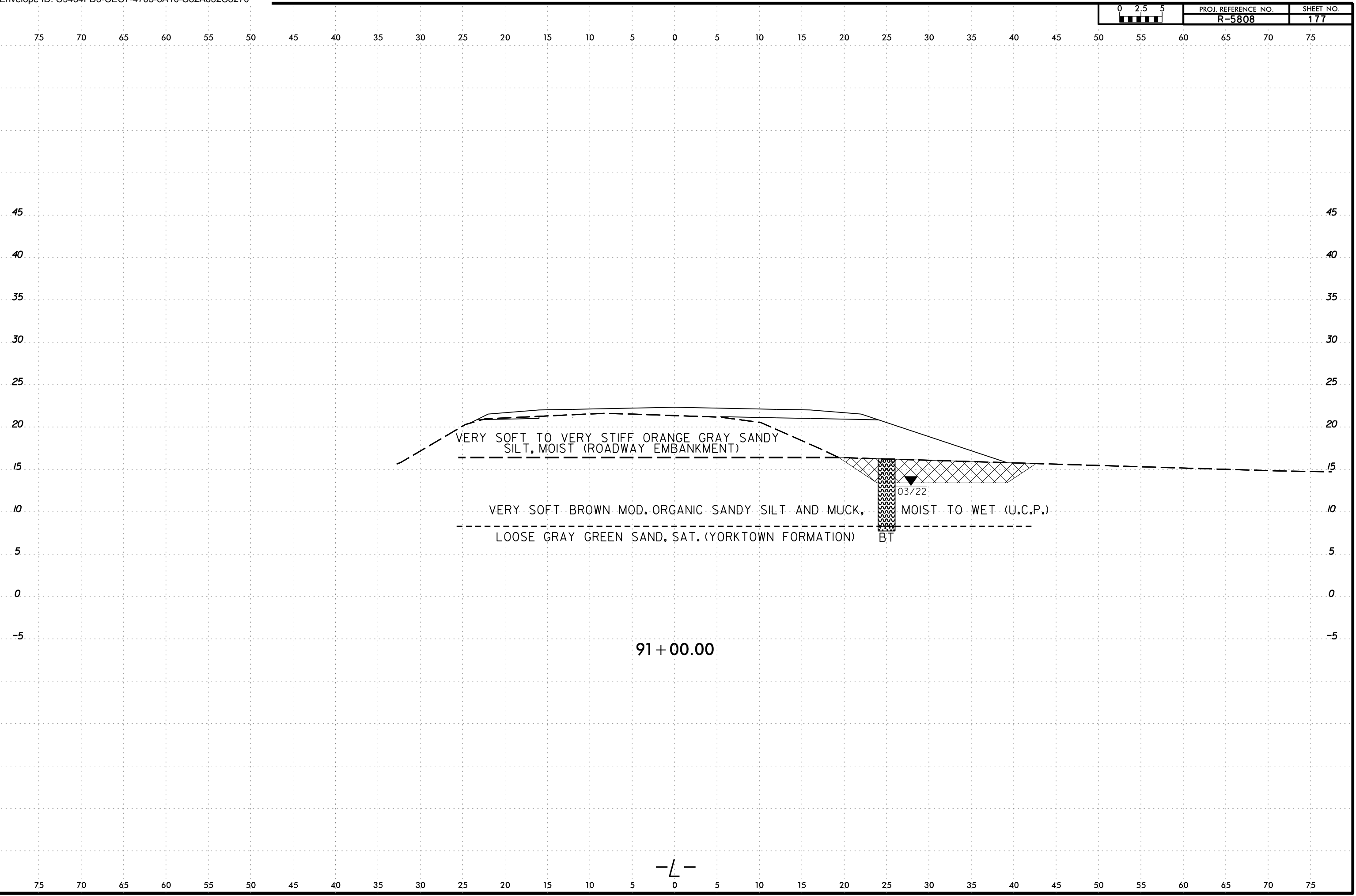
6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn



21-MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn

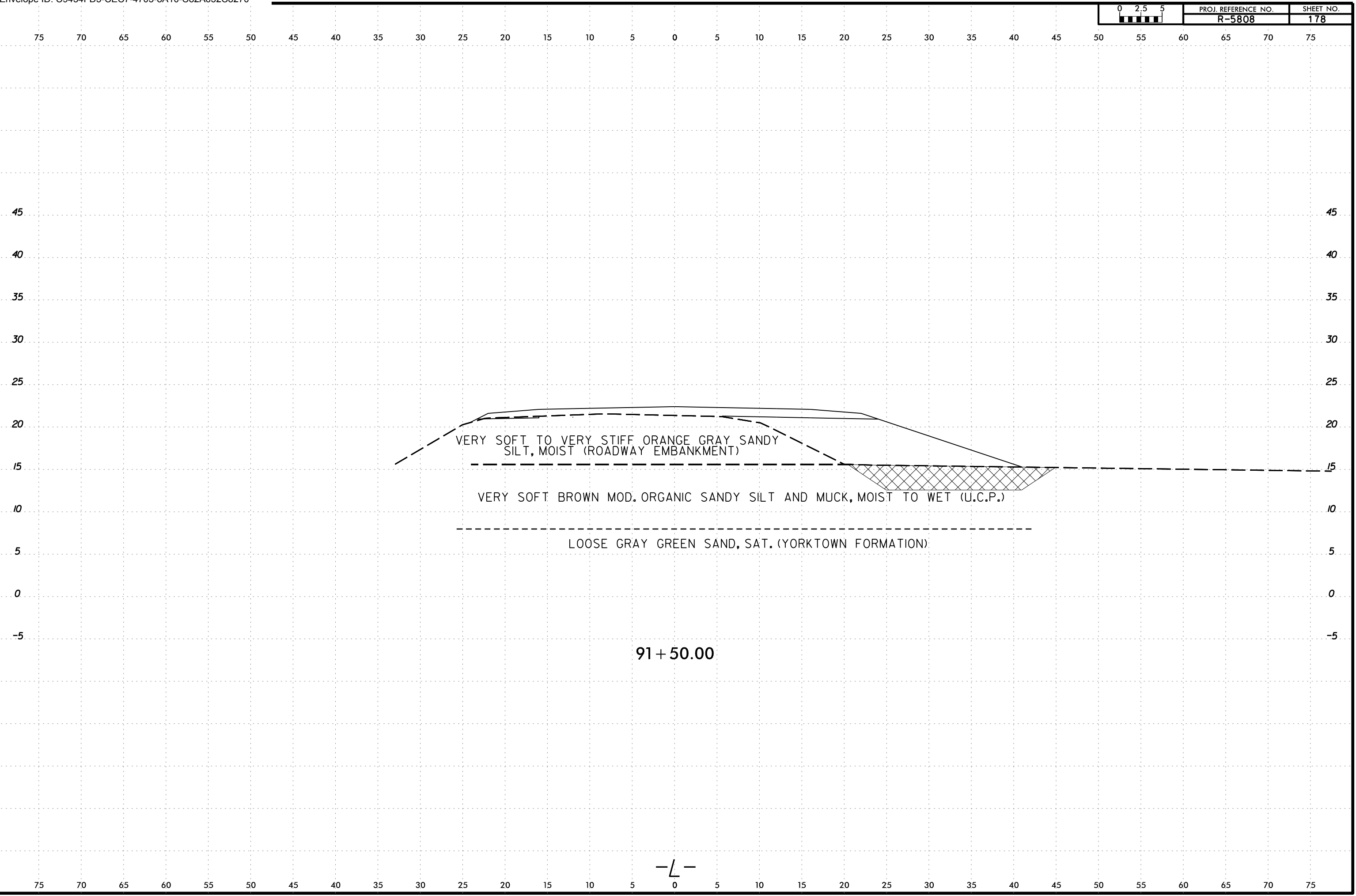


6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR.dgn



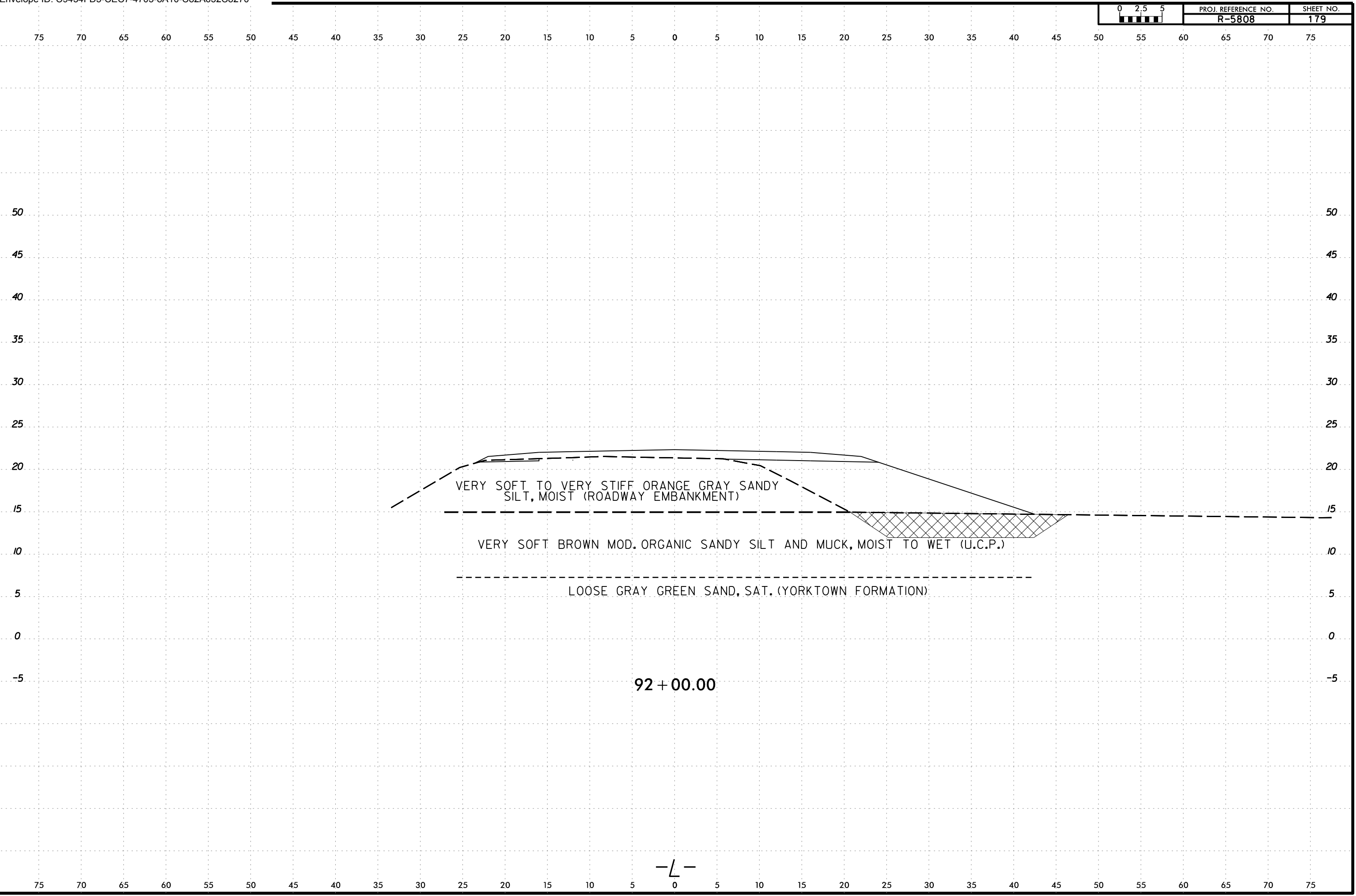
-L-

6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone

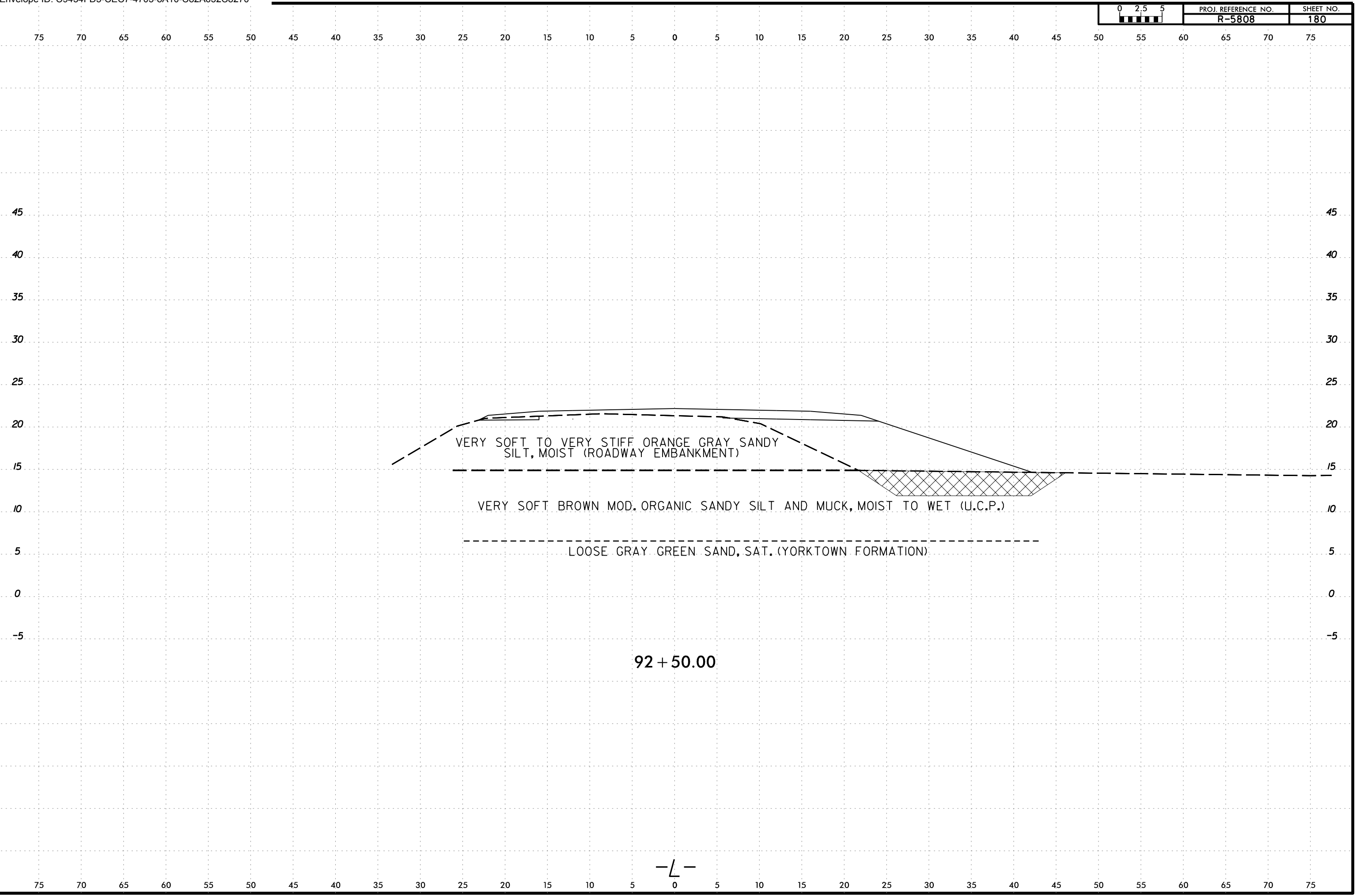


-L-

6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\RDWY\VR5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\VR5808L\_GEO\_XSR.dgn  
jstone

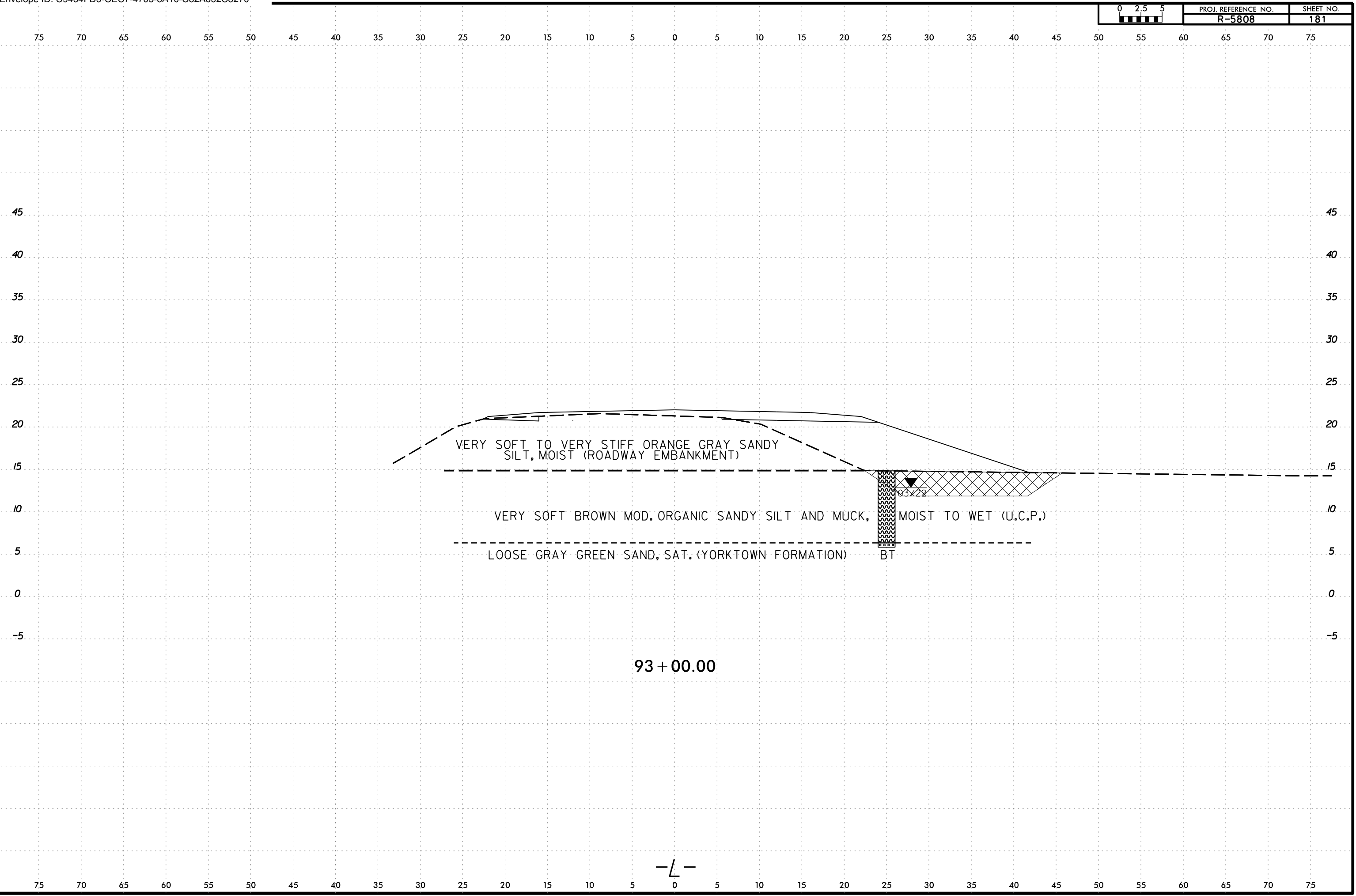


6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

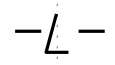


-L-

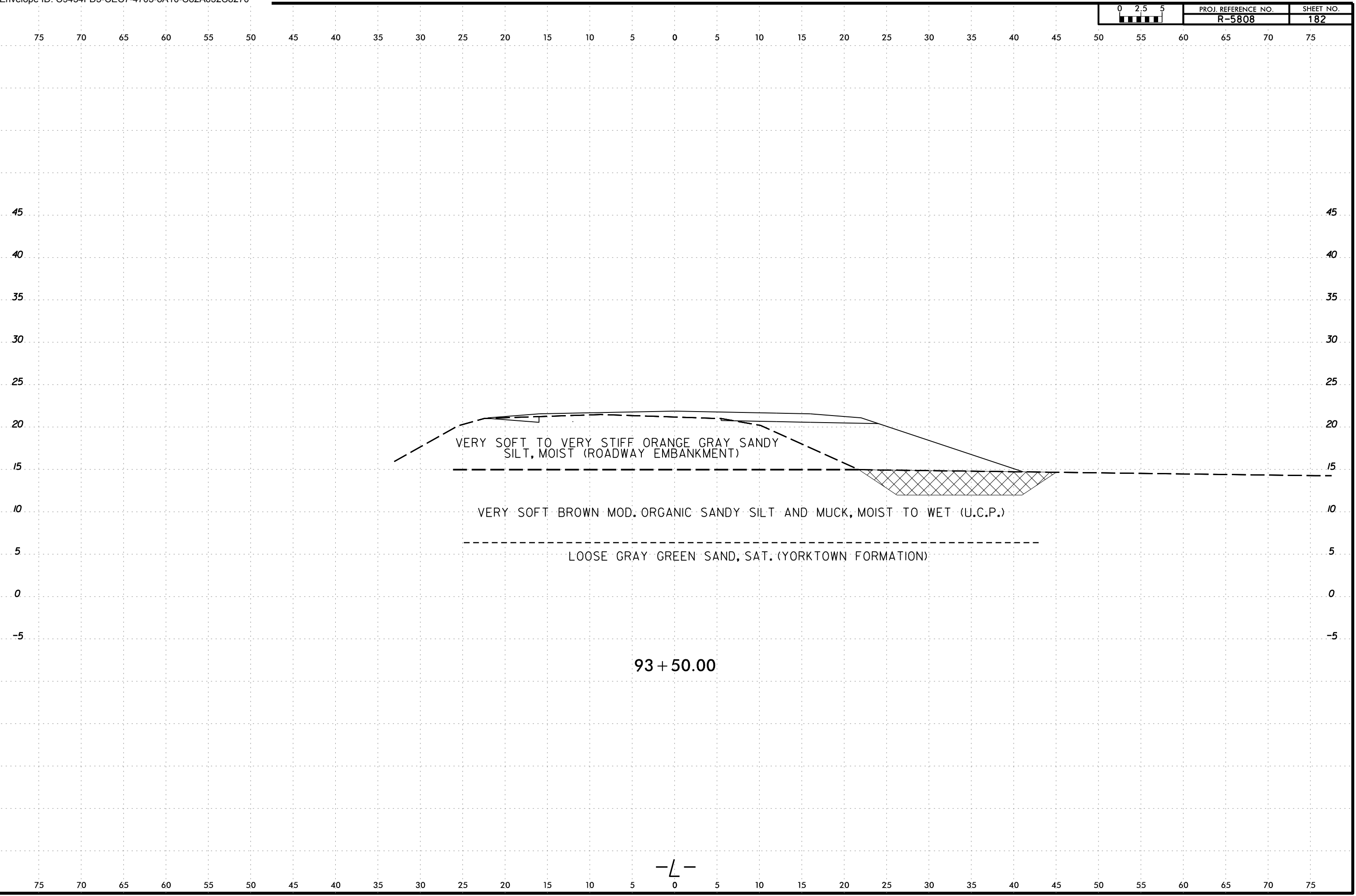
6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



93 + 00.00

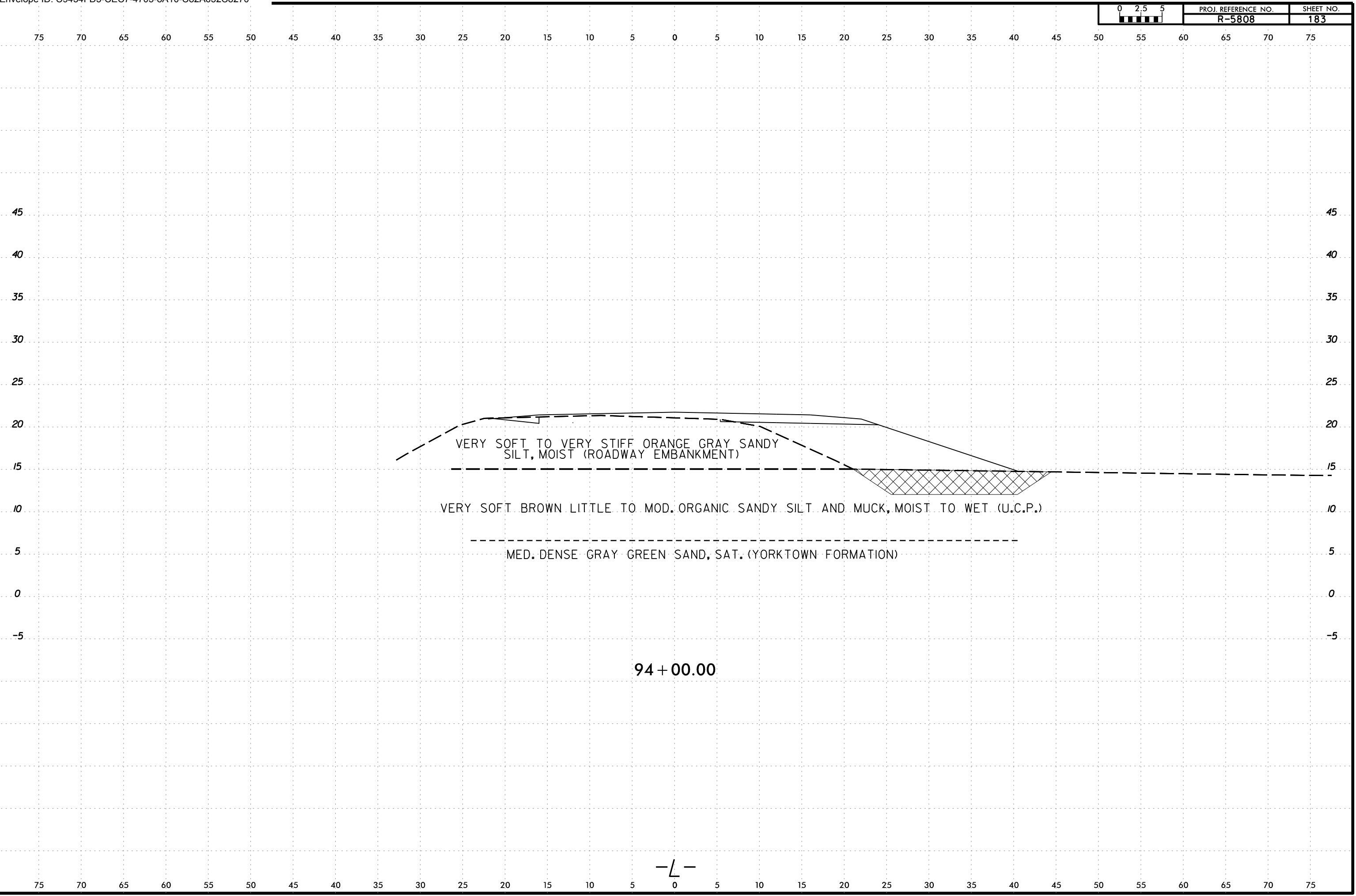


6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone

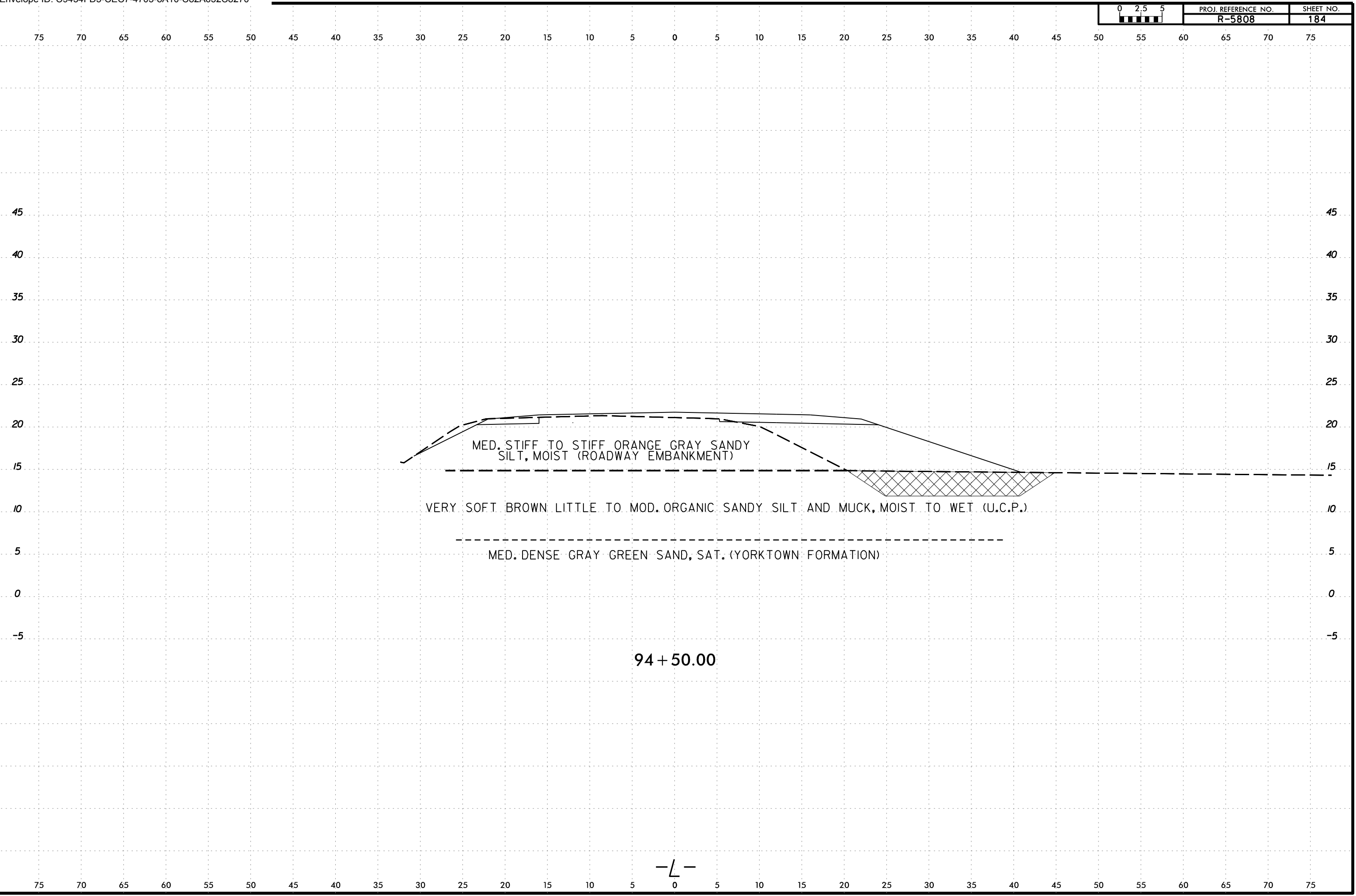


-L-

6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

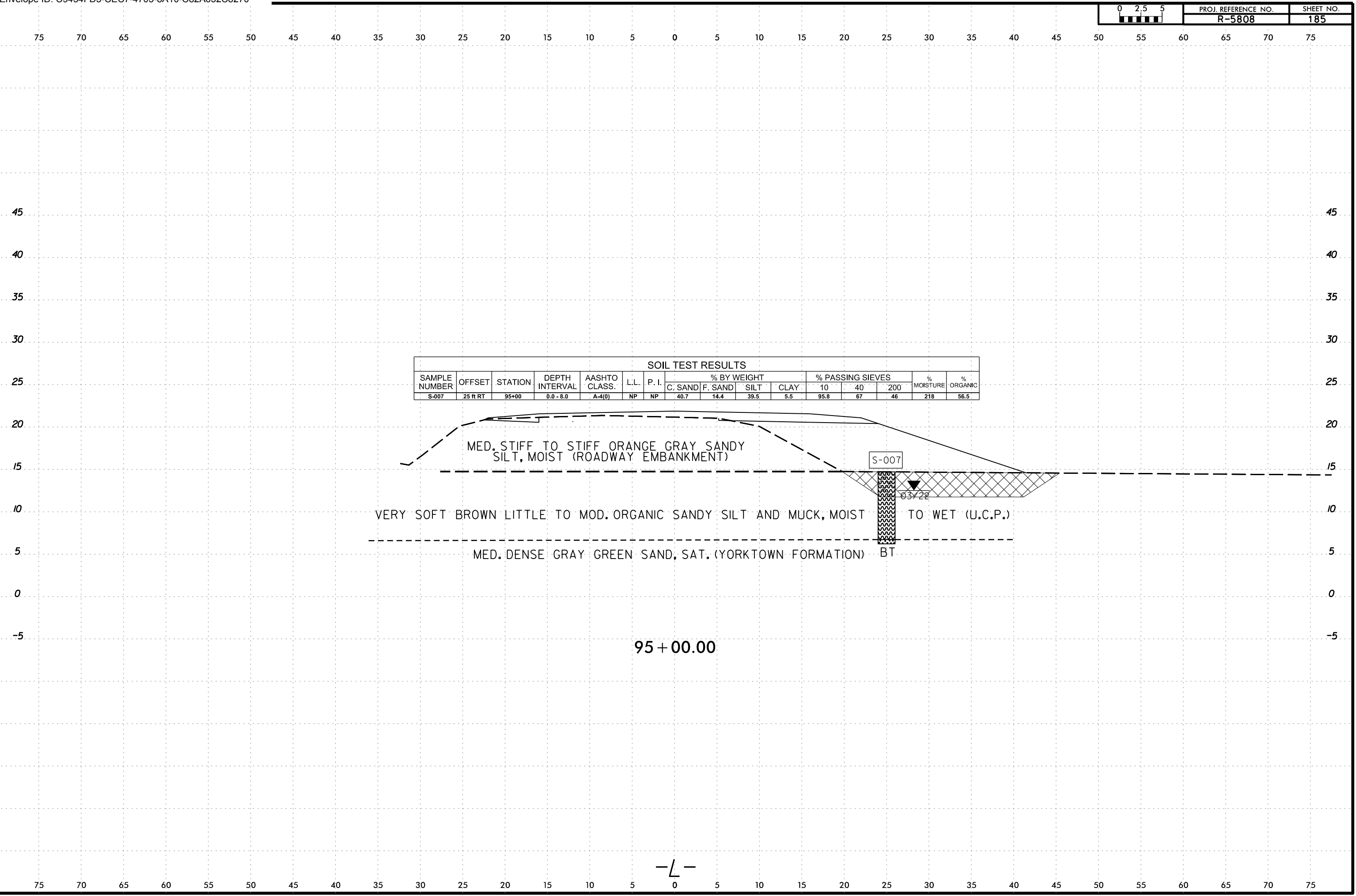


6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone





6/23/16  
2-MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
jstone



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

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

S-007

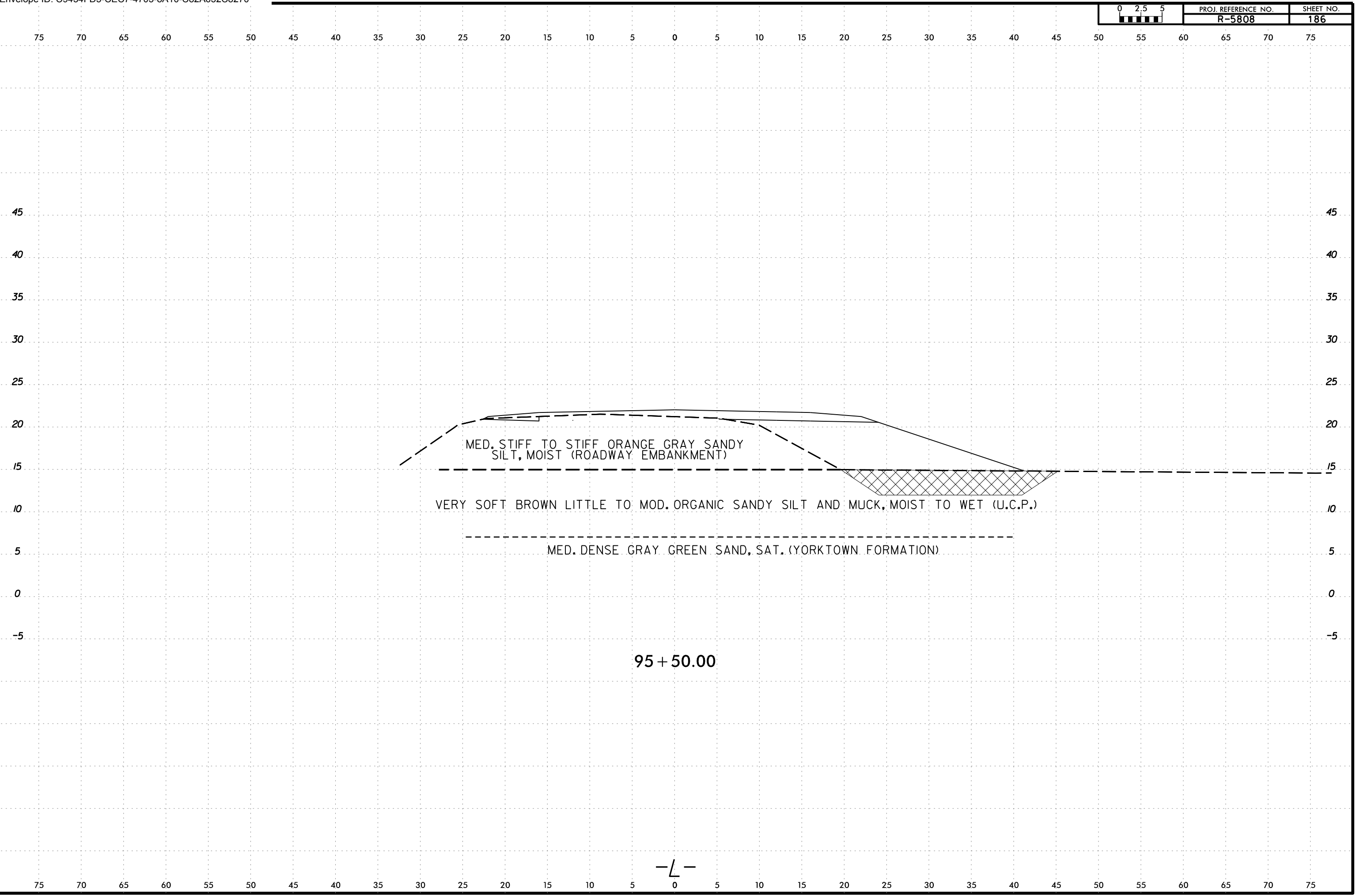
0.3722

BT

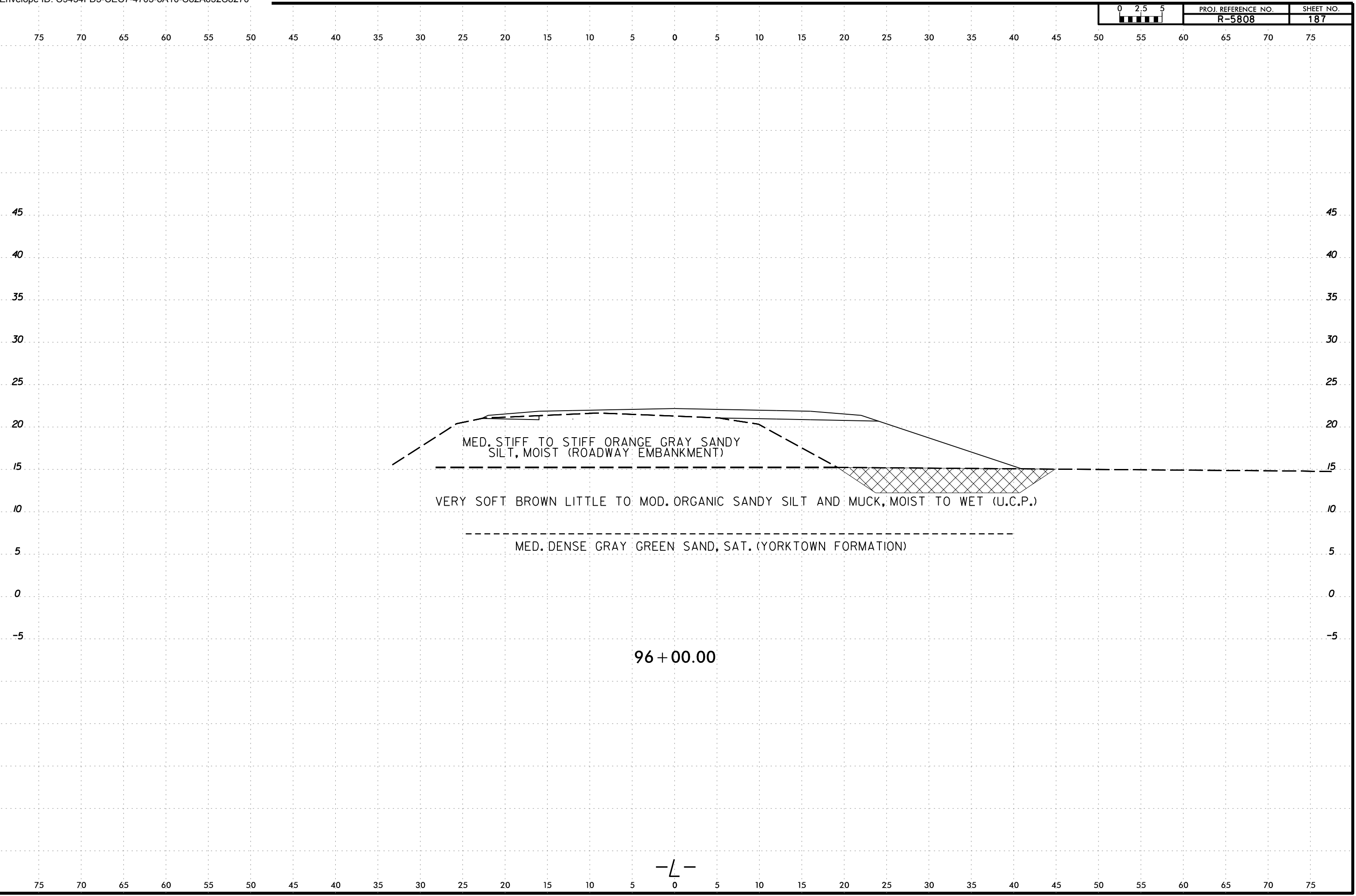
95 + 00.00

-L-

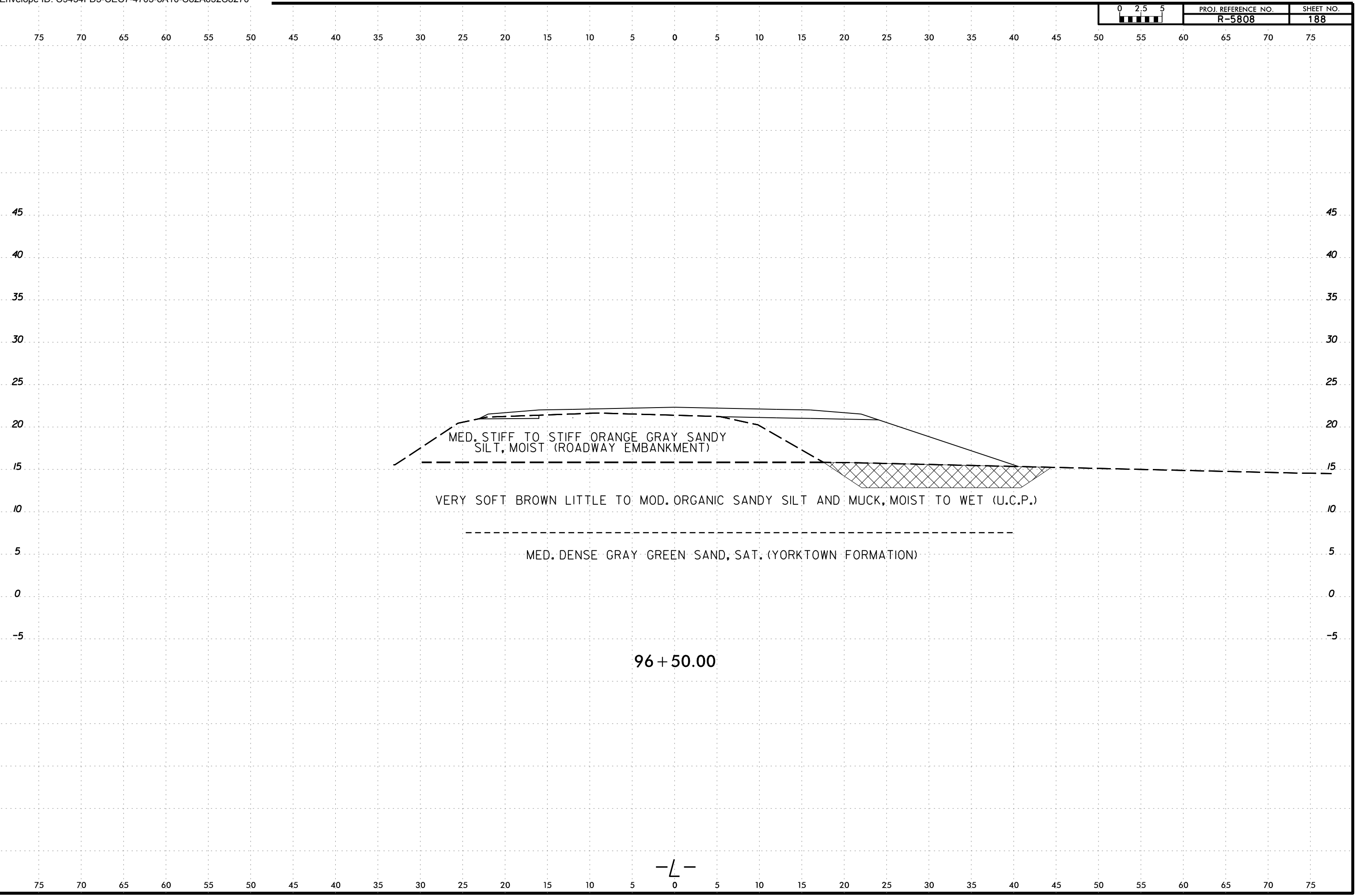
6/23/16  
21-MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808L\_Geo\_XSR.dgn  
jstone



6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

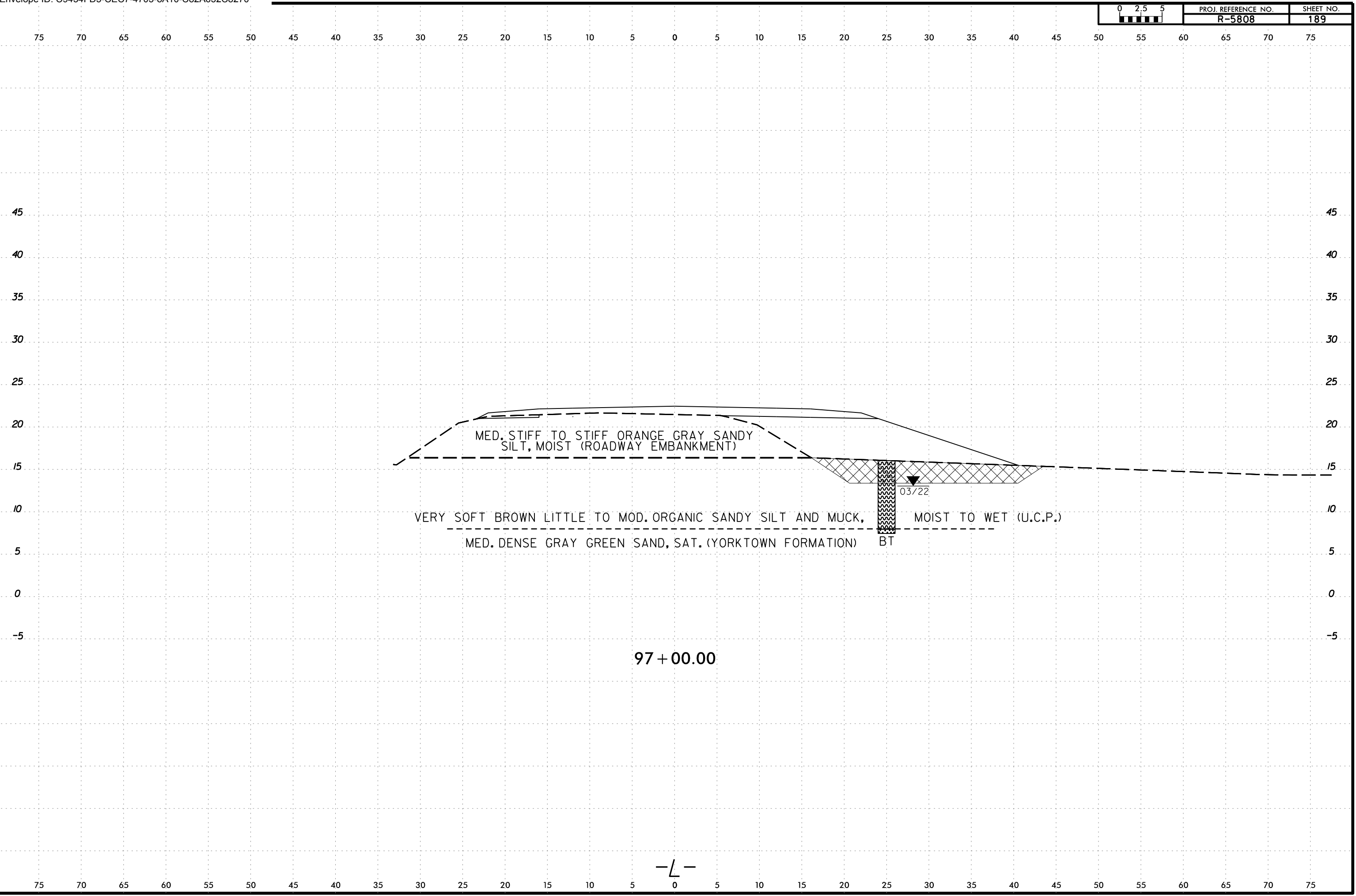


6/23/16  
21-MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

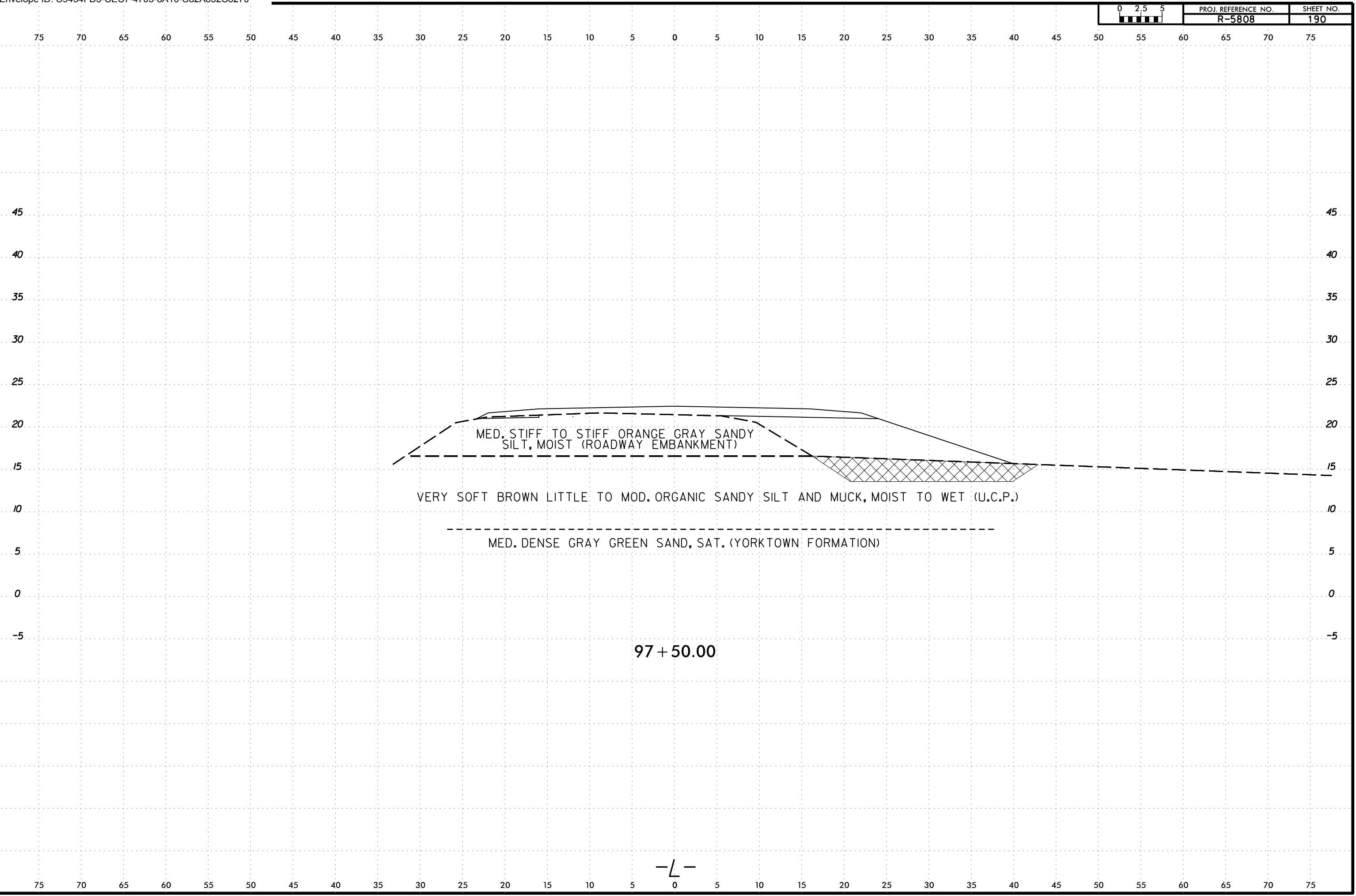


-L-

6/23/16  
21-MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR.dgn  
jstone

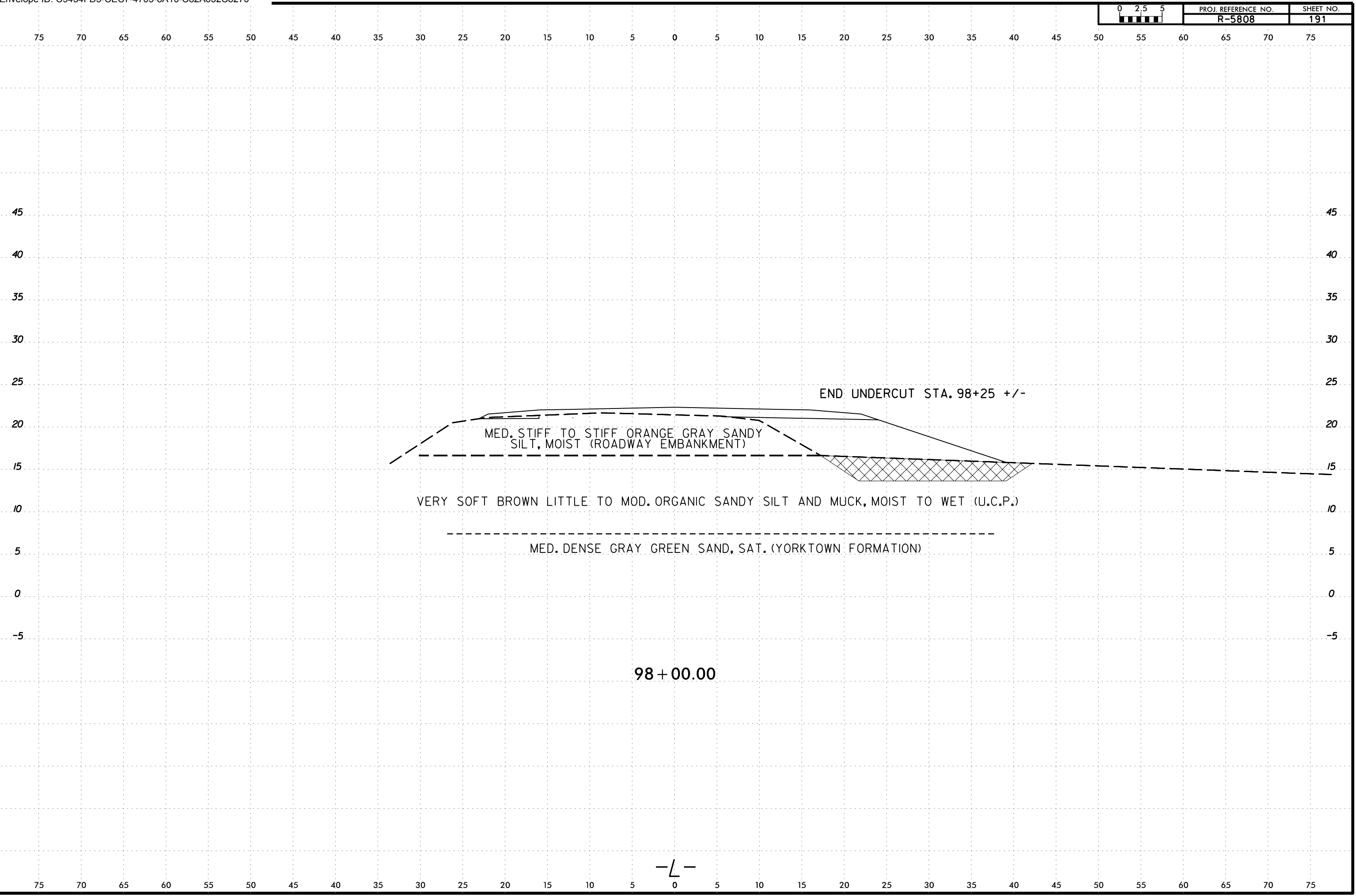


6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



-L-

6/23/16  
21-MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



END UNDERCUT STA. 98+25 +/-

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

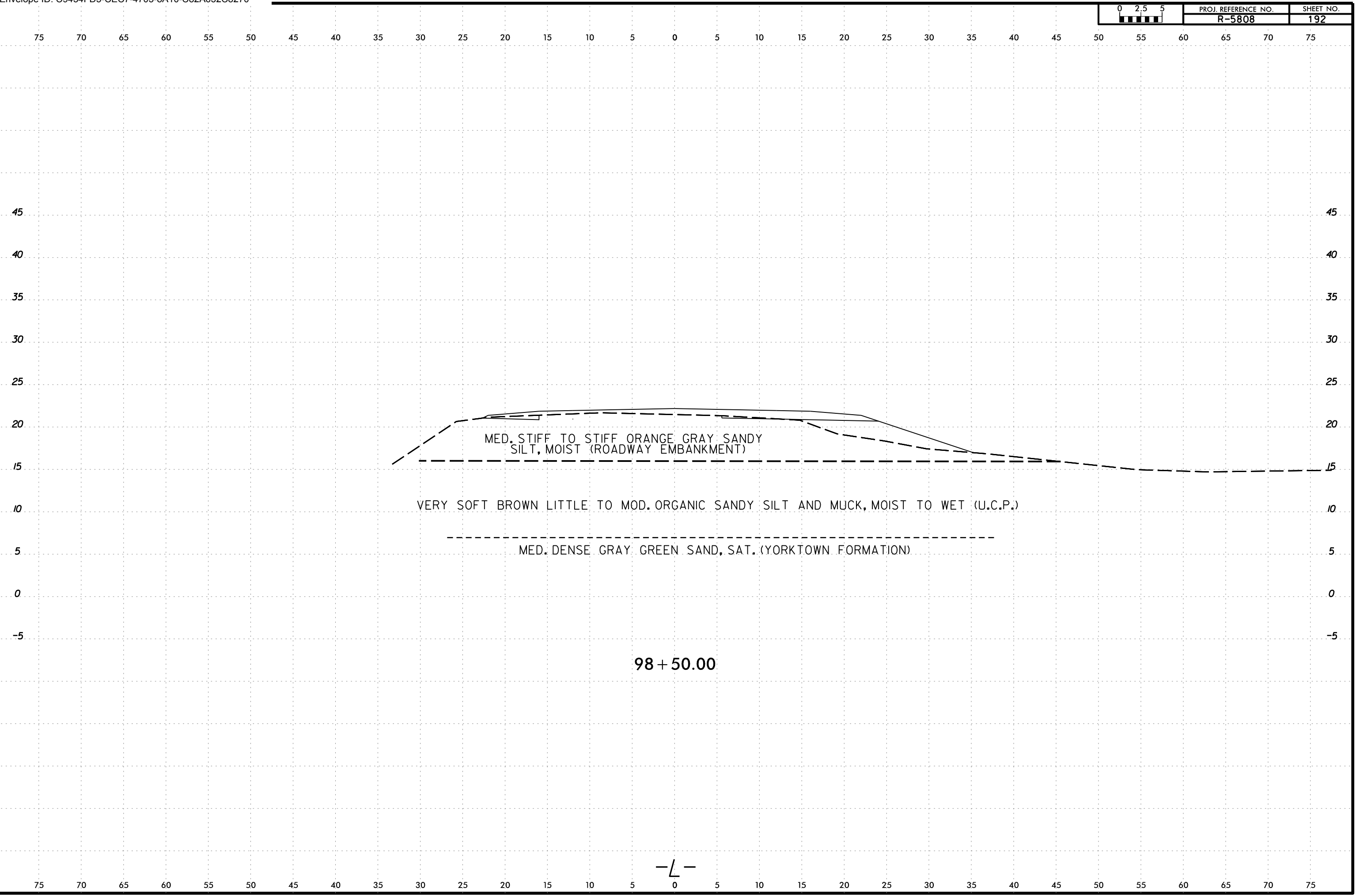
VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

98 + 00.00

-L-

6/23/16  
21-MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone

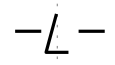


MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

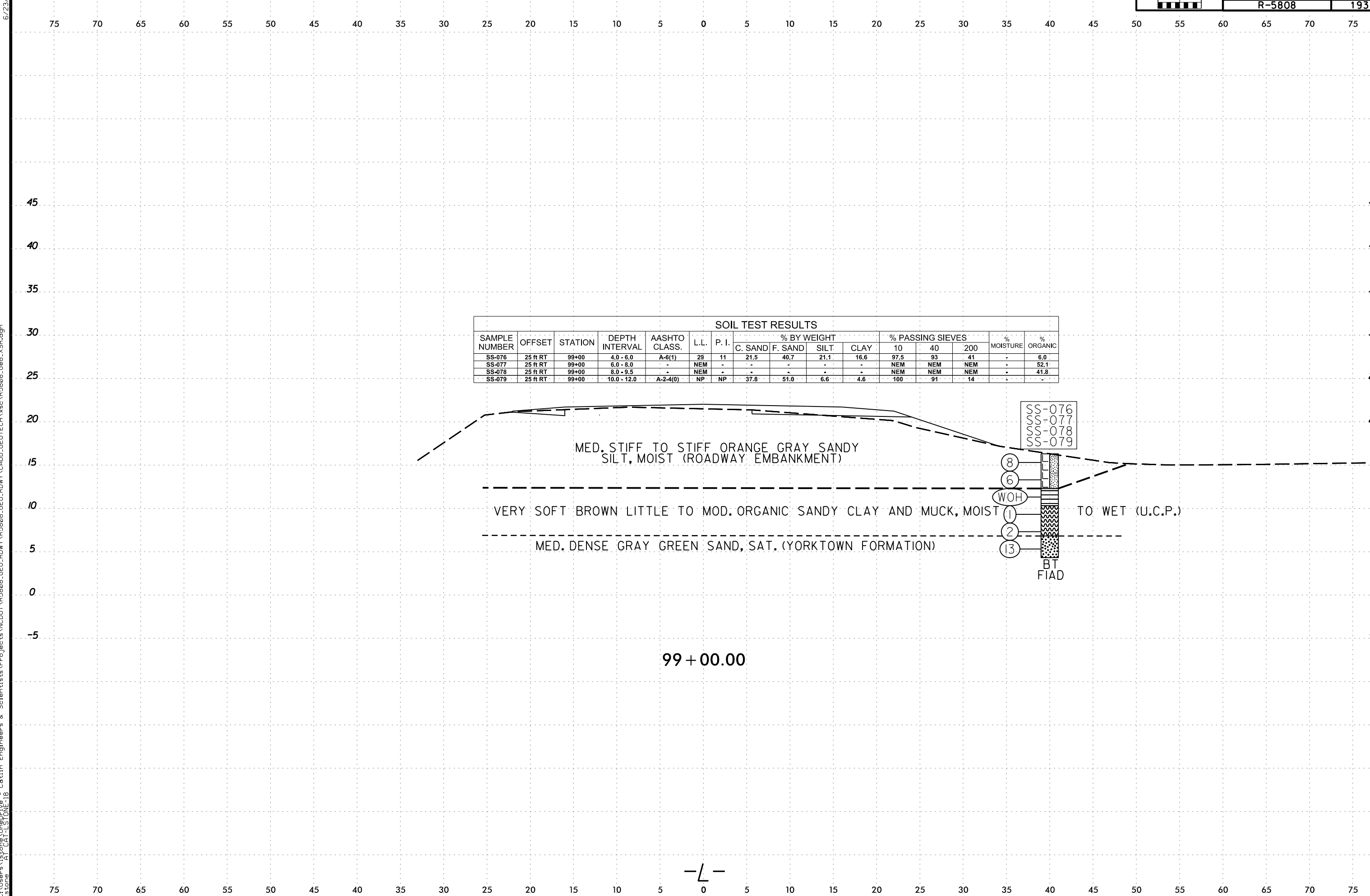
VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

98 + 50.00





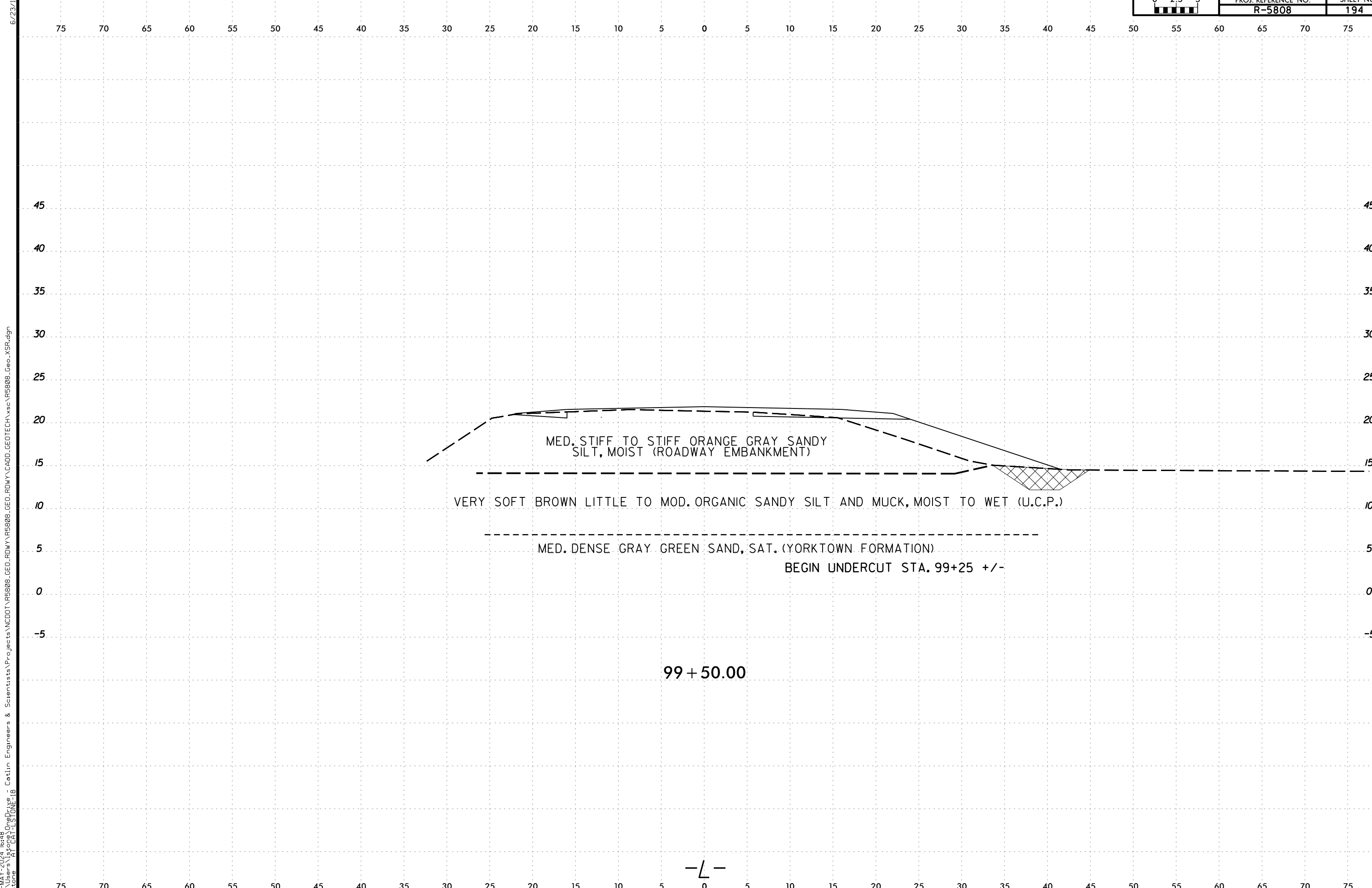


**SOIL TEST RESULTS**

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-076	25 ft RT	99+00	4.0 - 6.0	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	6.0 - 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	-	

21-MAY-2024 16:48  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\RS808L\_Geo\_XSR.dgn  
 jstone

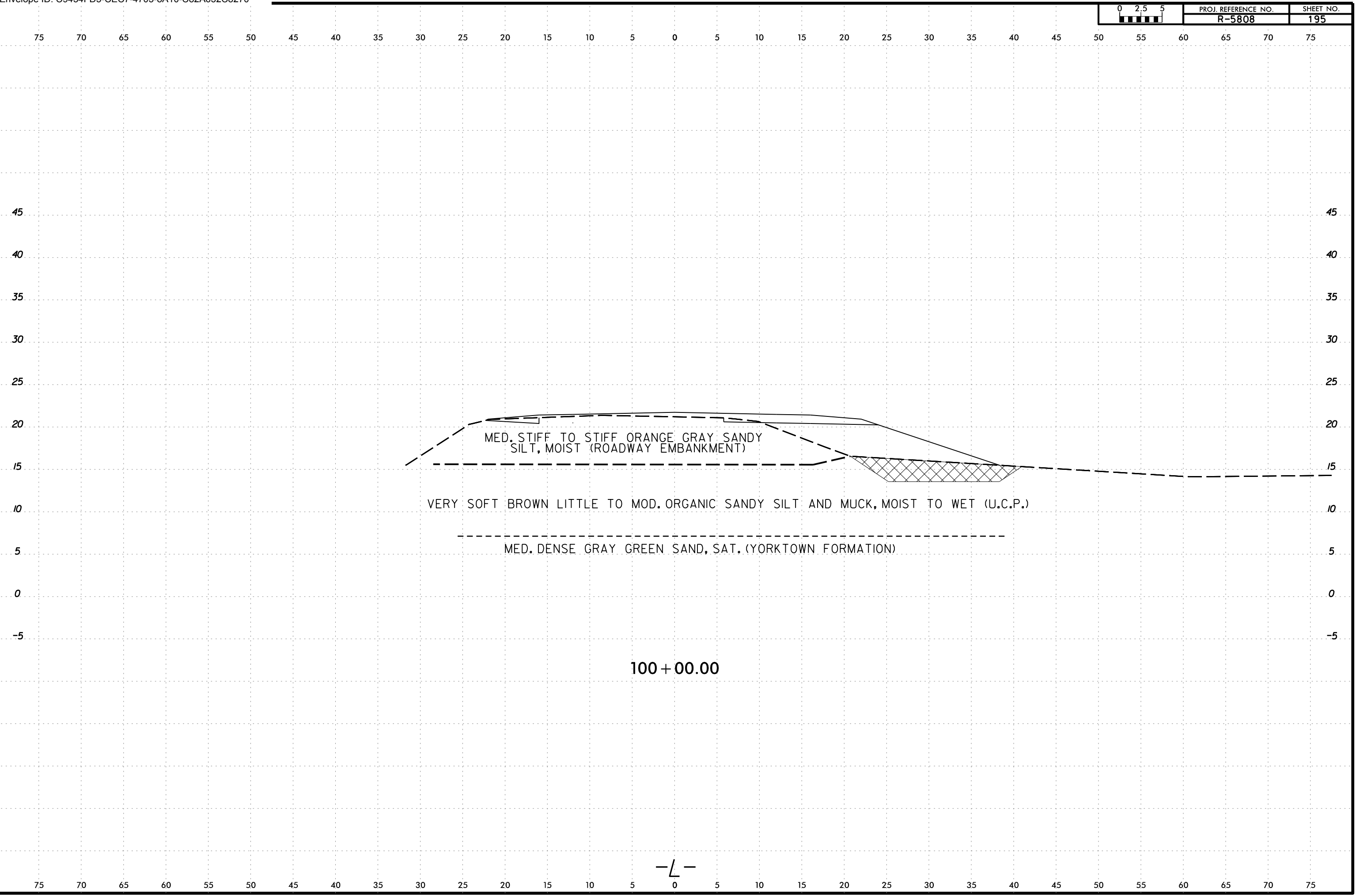
-L-



21-MAY-2024 16:48  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR.dgn  
 jstone

6/23/16

6/23/16  
21MAY-2024 16:48  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR.dgn  
jstone



MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

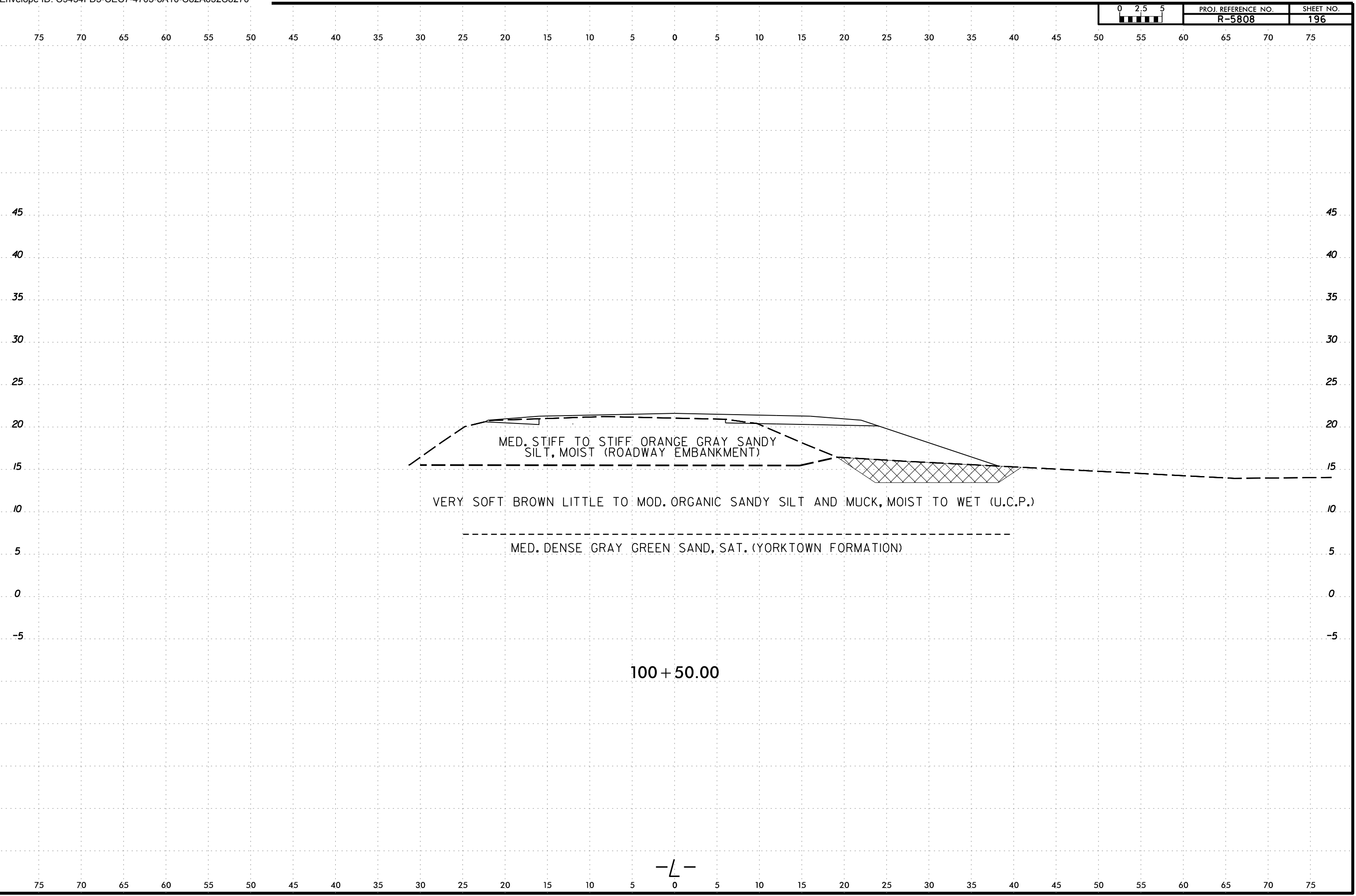
VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

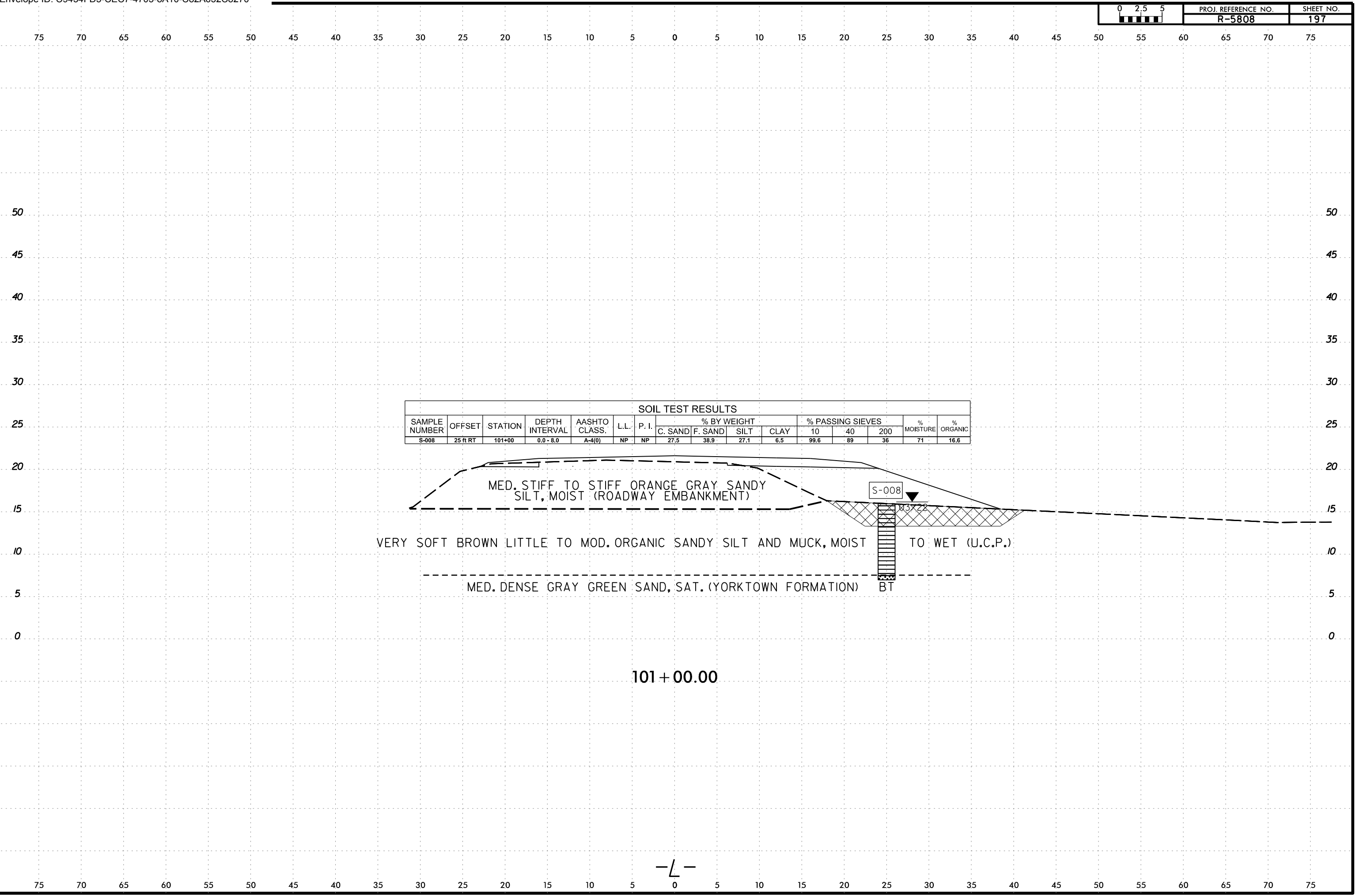
100 + 00.00

-L-

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\RDWY\RS808\_GEO.XSR\_2.dgn



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-008	25 ft RT	101+00	0.0 - 8.0	A-4(0)	NP	NP	27.5	38.9	27.1	6.5	99.6	89	36	71	16.6

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

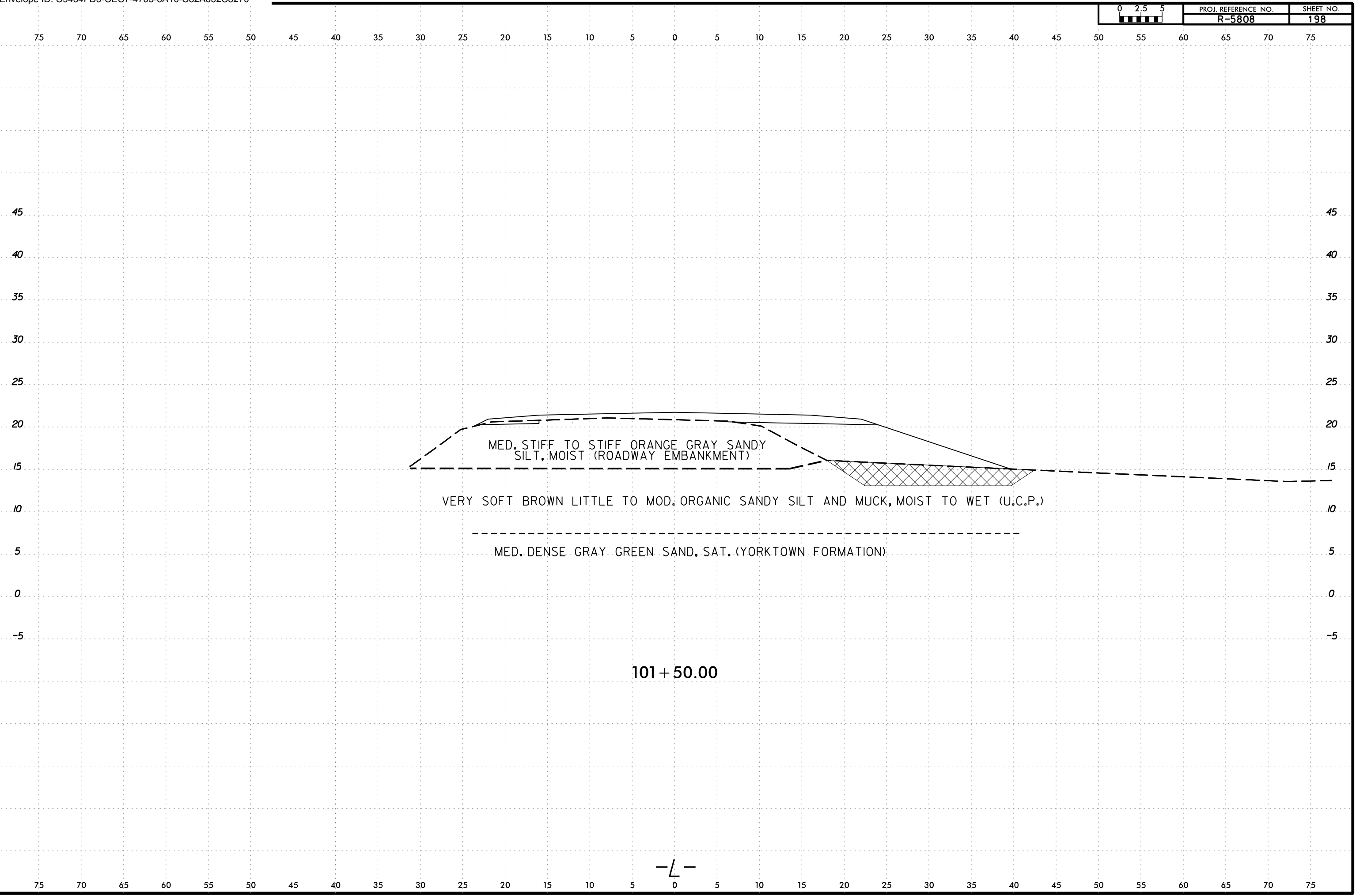
VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

101 + 00.00

-L-

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 45

40 40

35 35

30 30

25 25

20 20

15 15

10 10

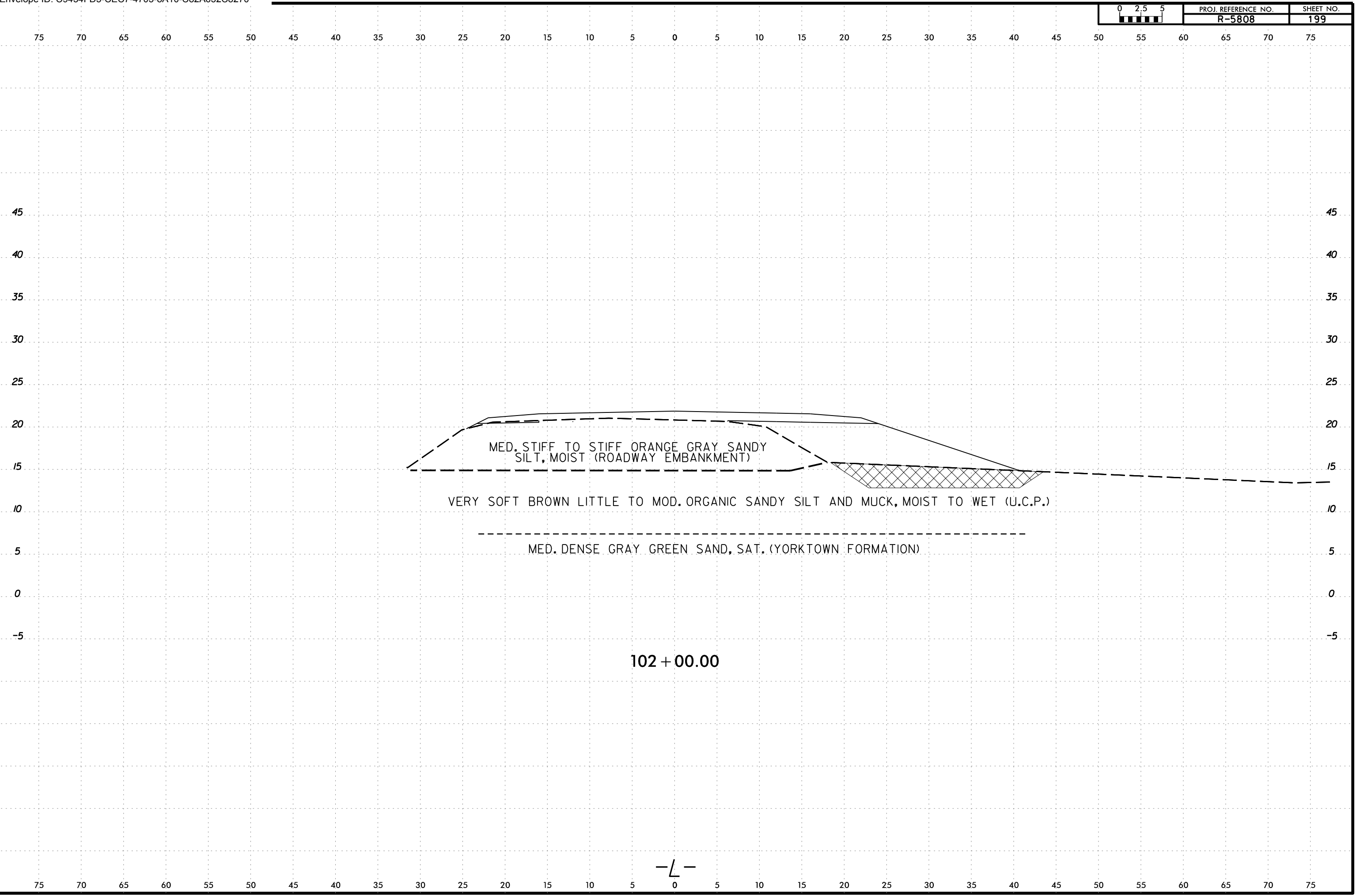
5 5

0 0

-5 -5

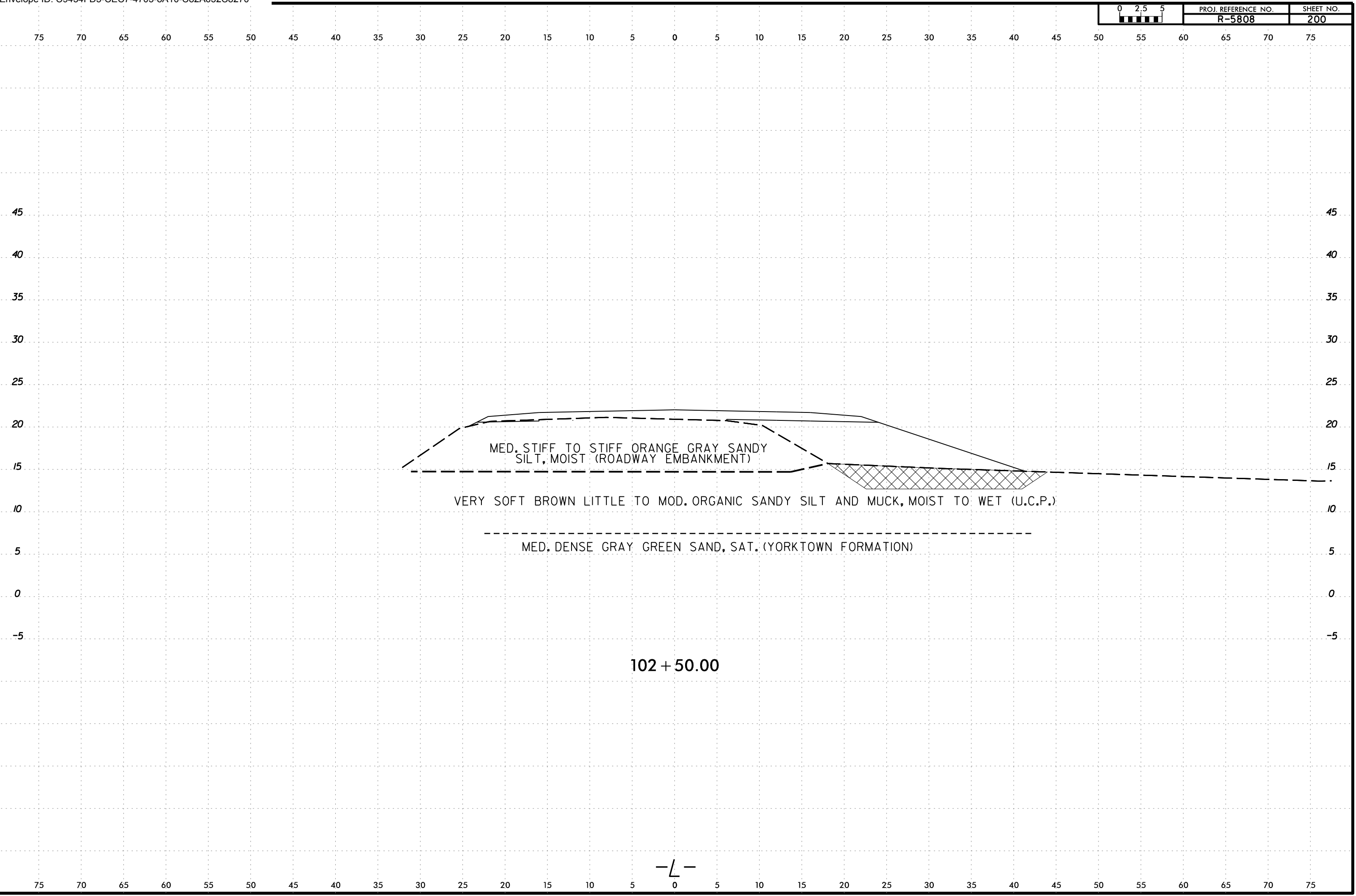
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



-L-

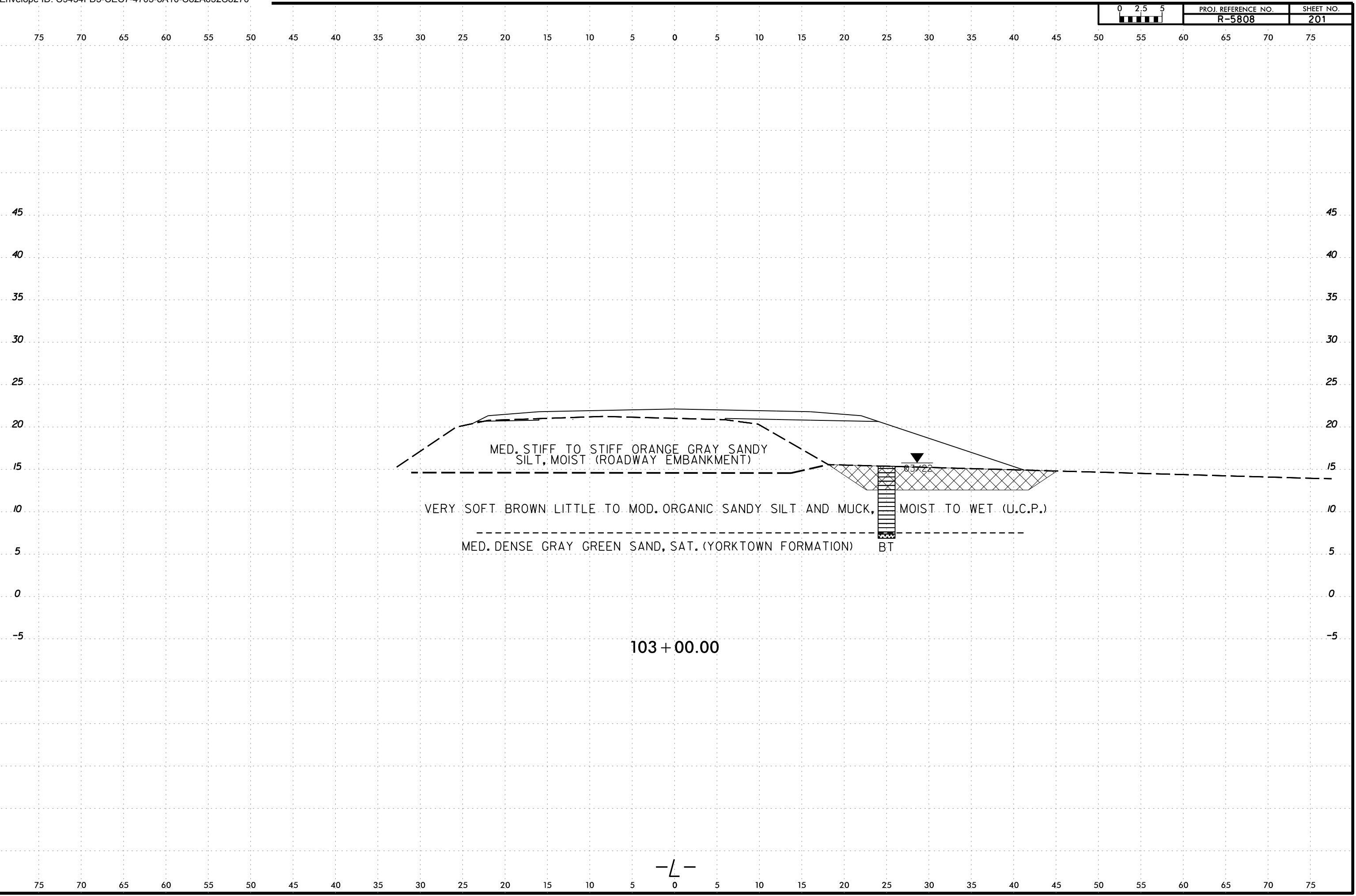
6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



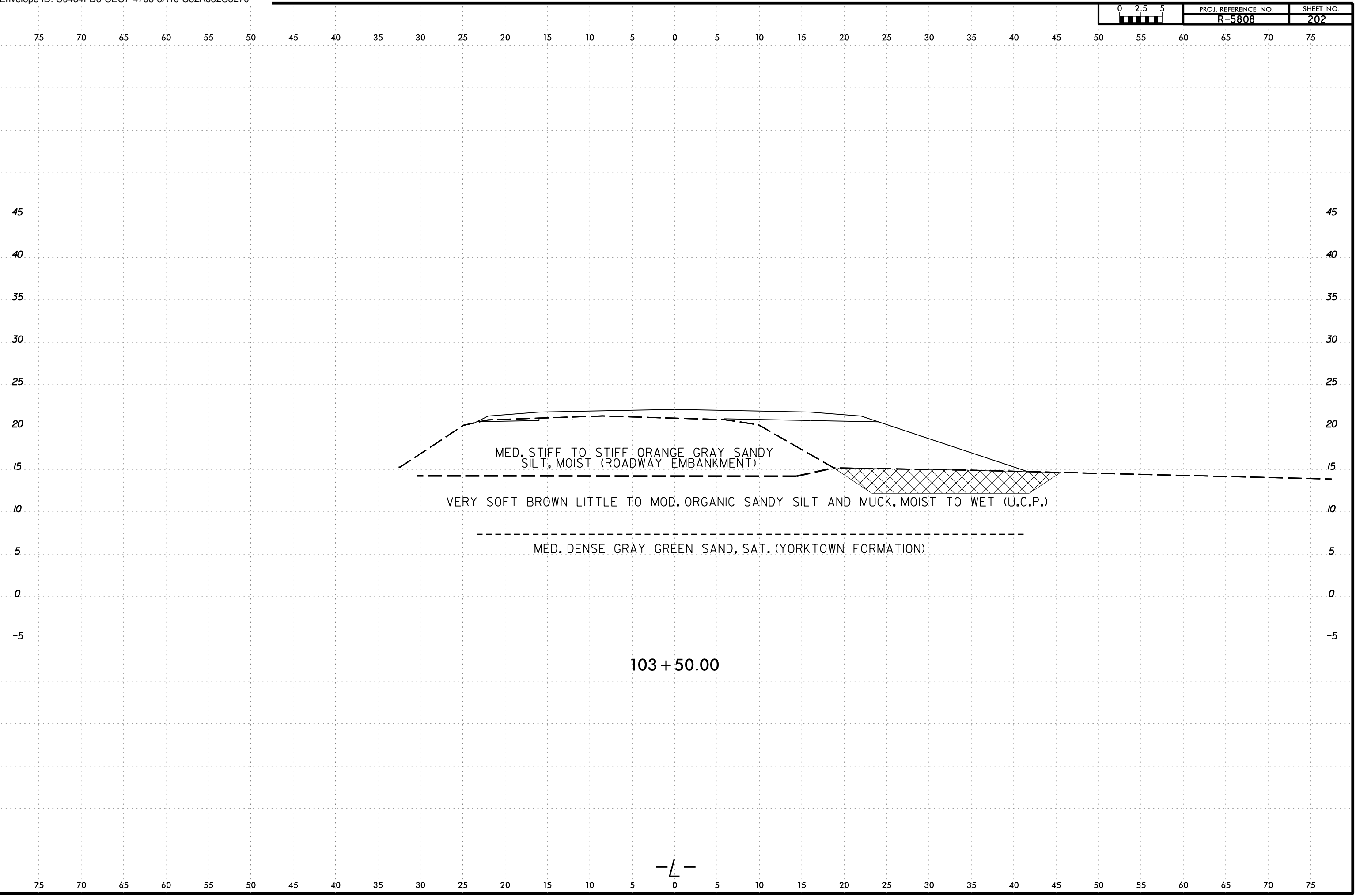
-L-



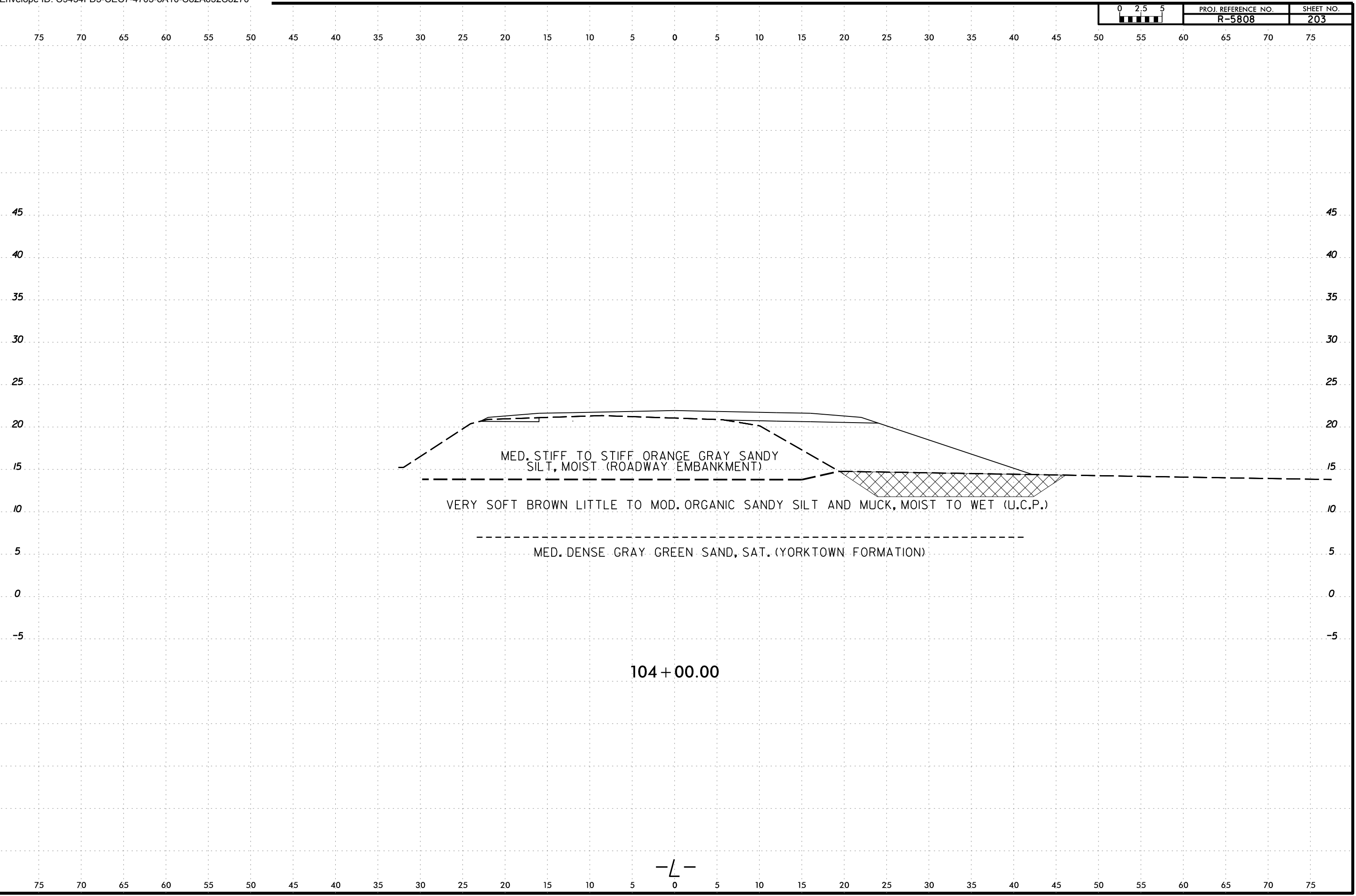
6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone



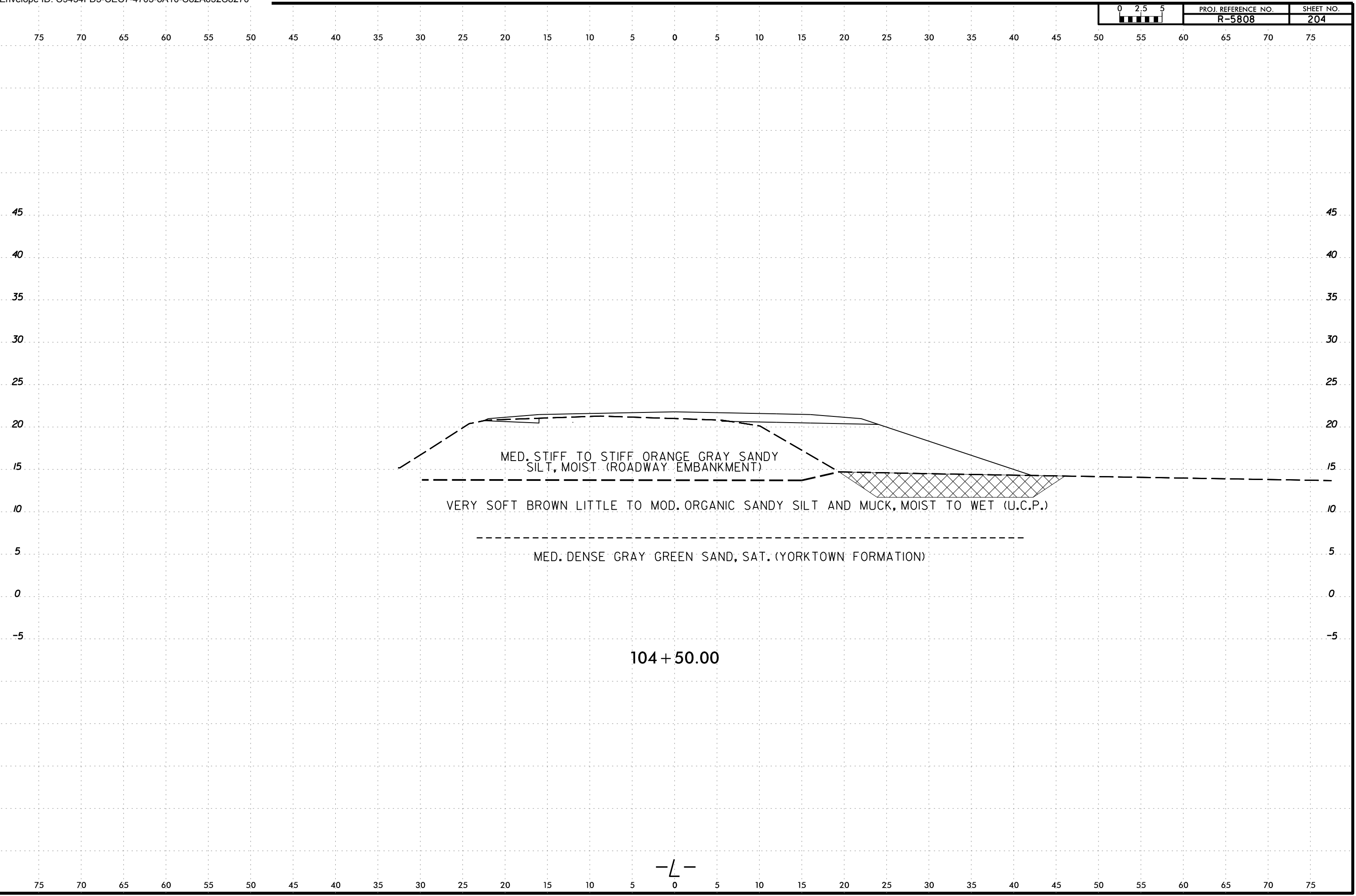
6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



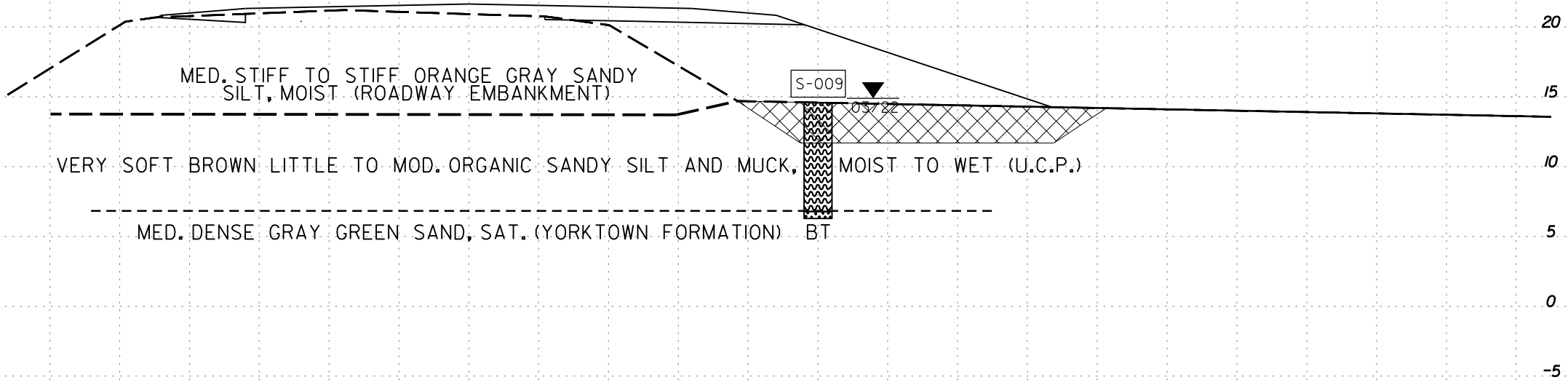
6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
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		
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	56.6



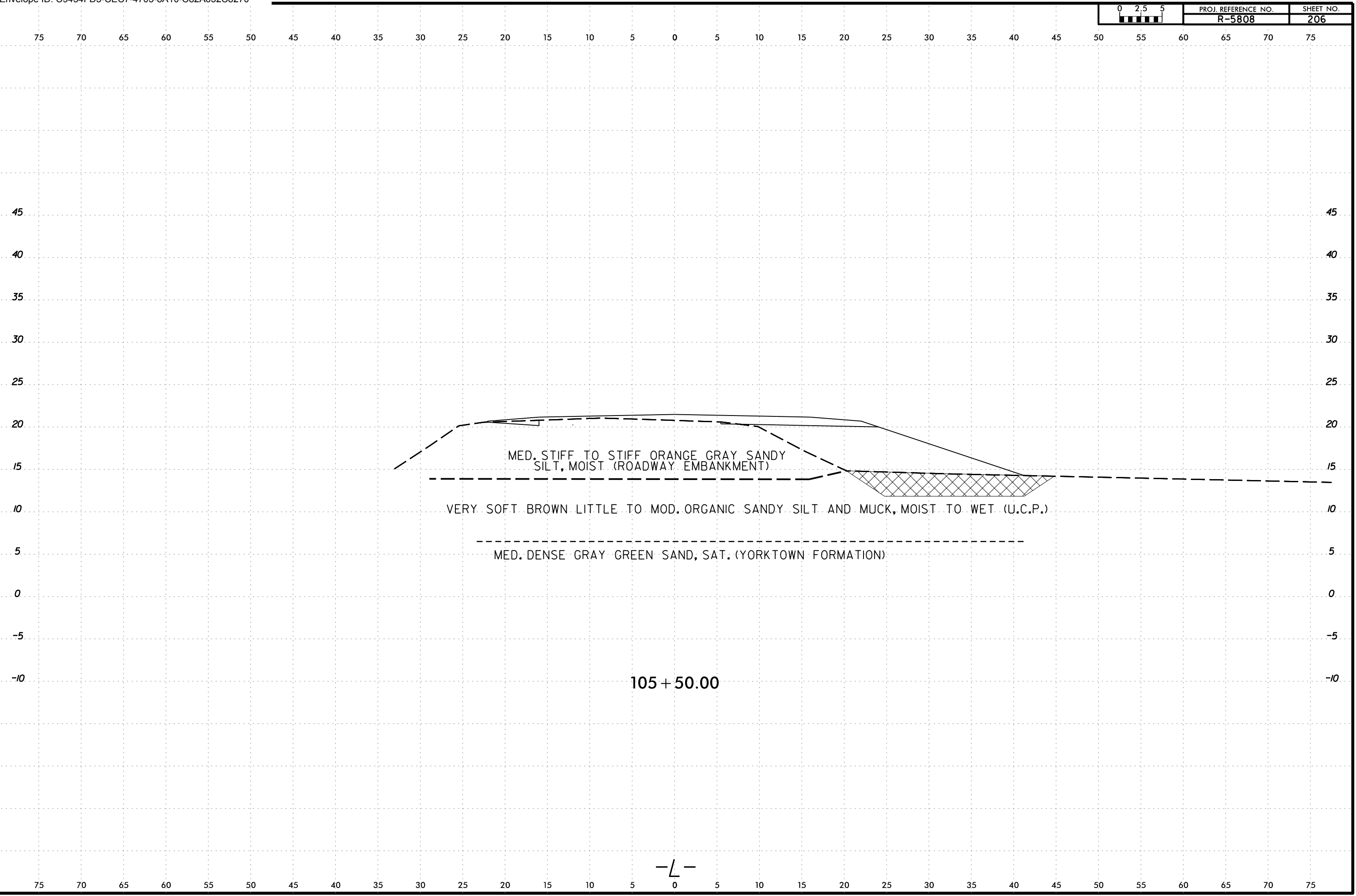
105 + 00.00

-L-

21-MAY-2024 16:50  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\185808\_GEO\RDWY\185808\_GEO\RDWY\CADD\GEO\TECH\XSEC\185808\_GEO\_XSR\_2.dgn  
 jstone

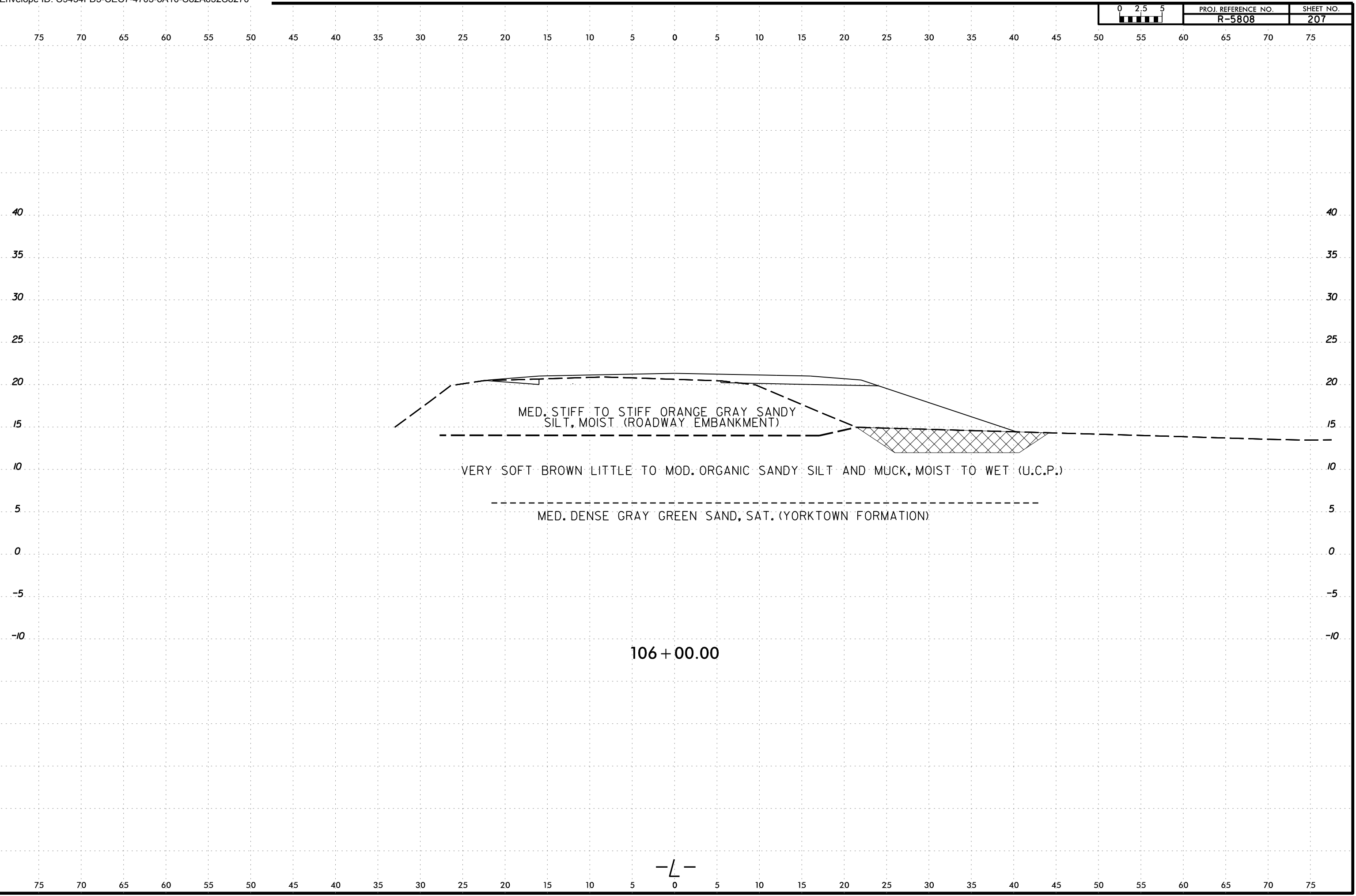
6/23/16

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



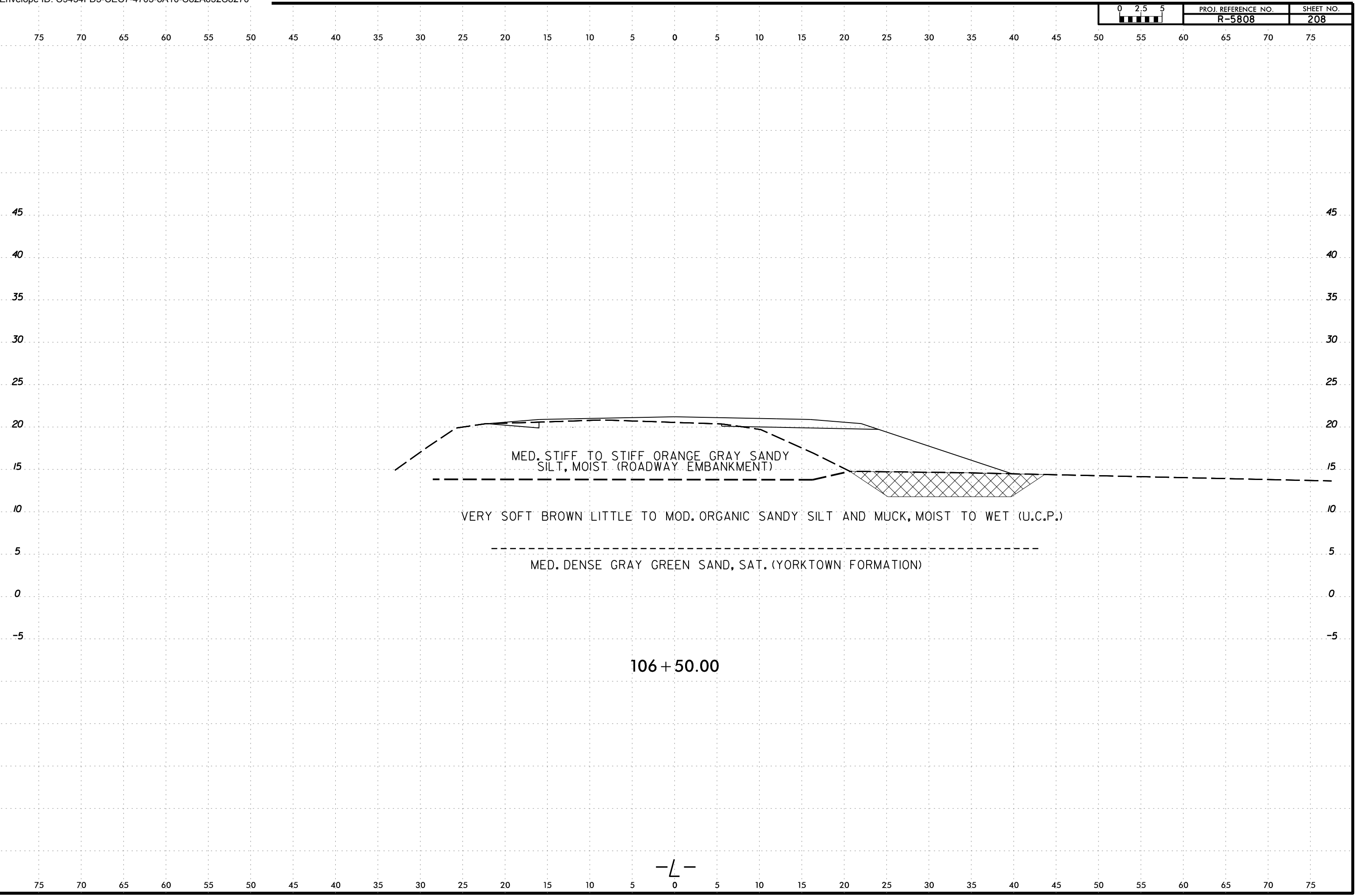
-L-

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



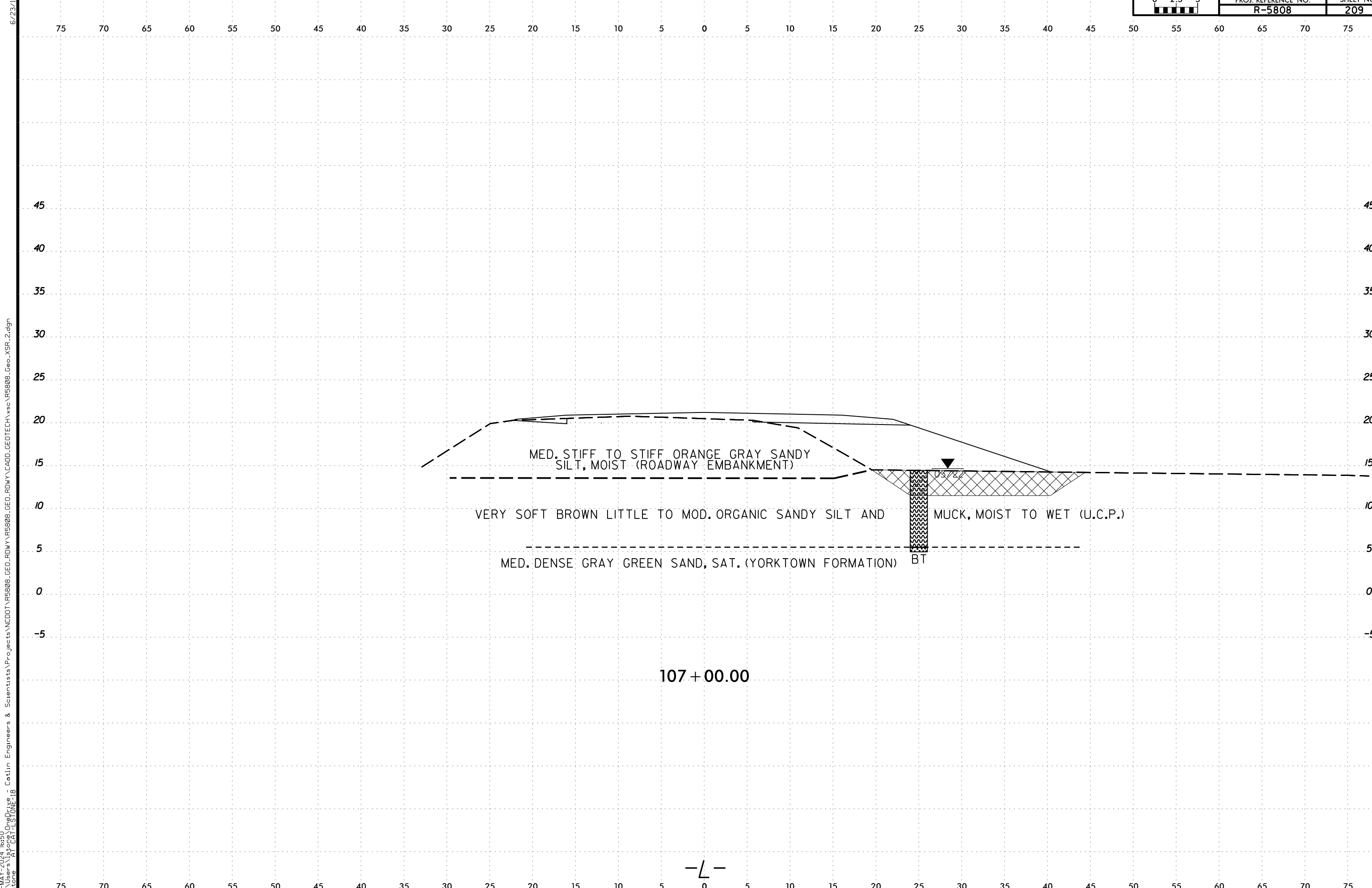
-L-

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



-L-





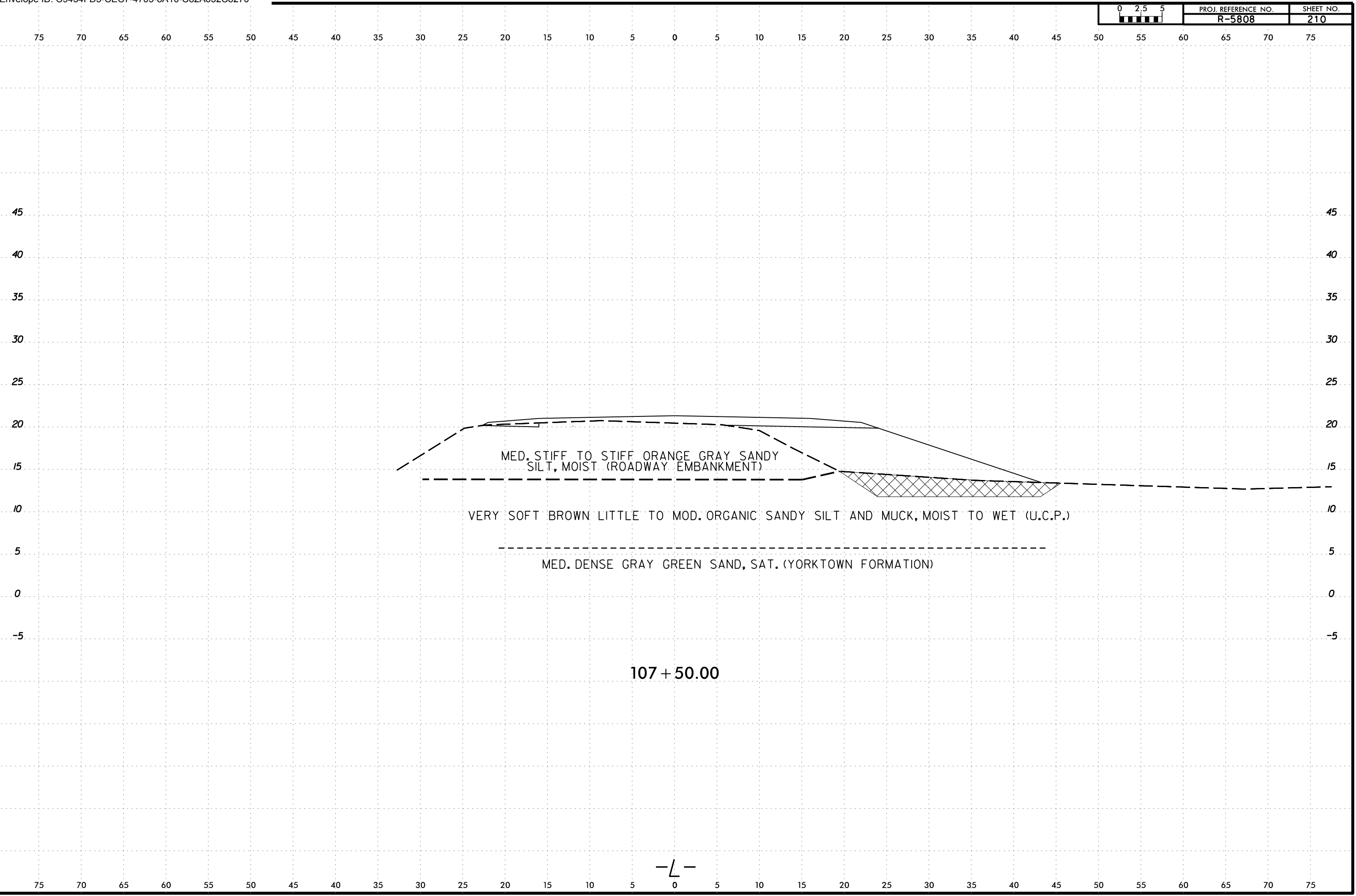
107 + 00.00

-L-

21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone

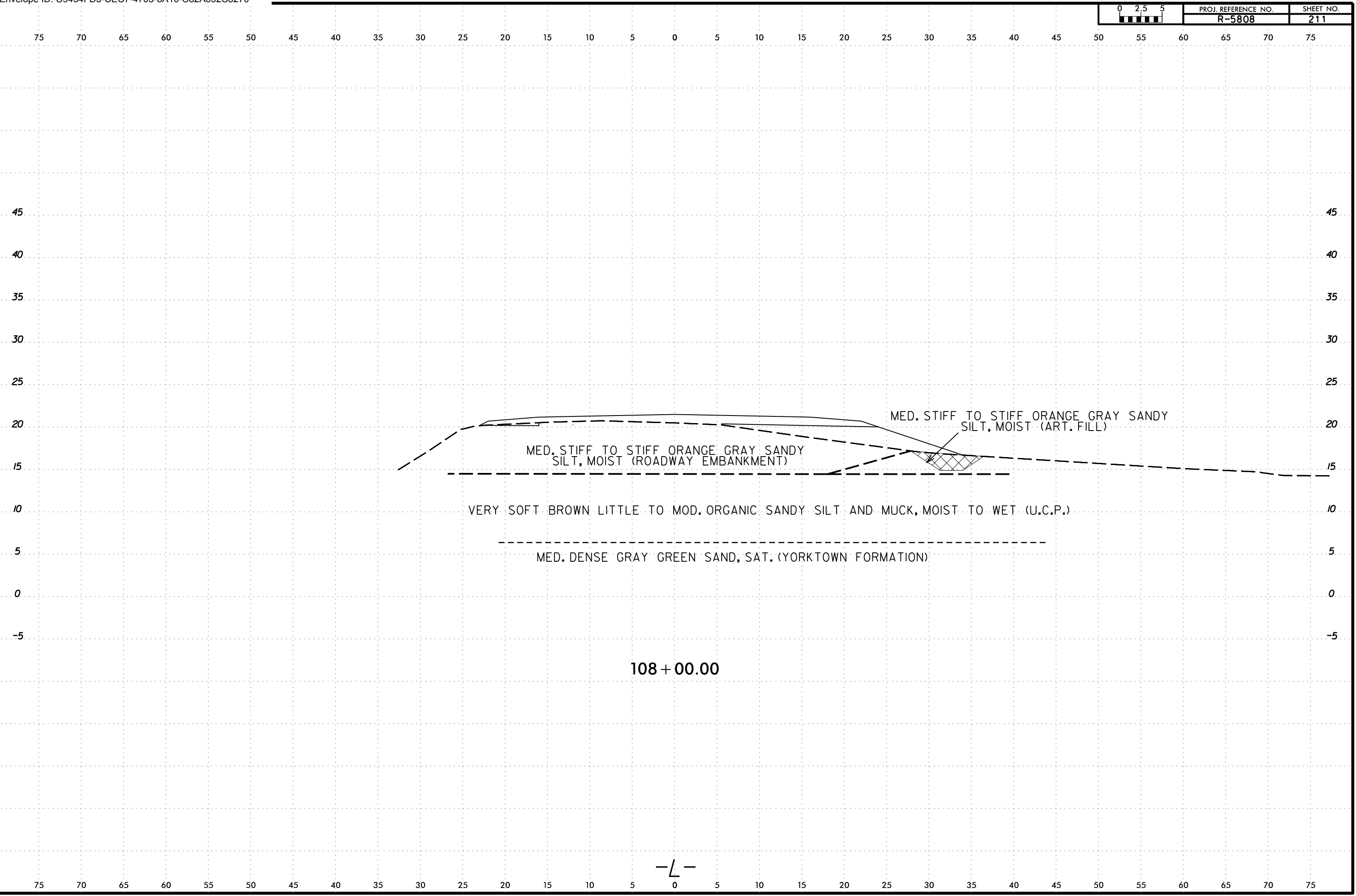
6/23/16

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



—L—

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



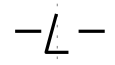
MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ART. FILL)

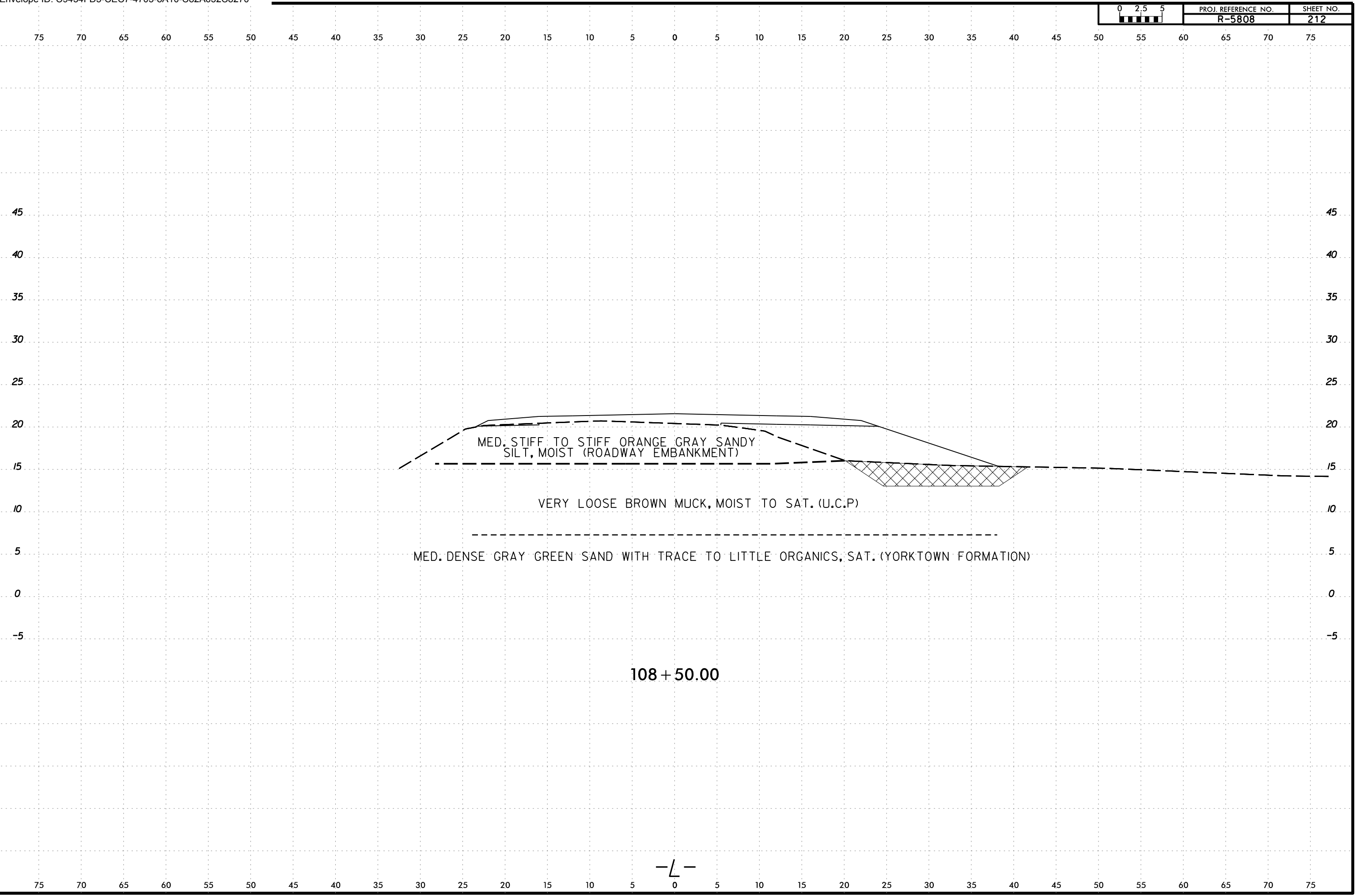
VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

108 + 00.00



6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

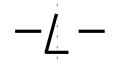


MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

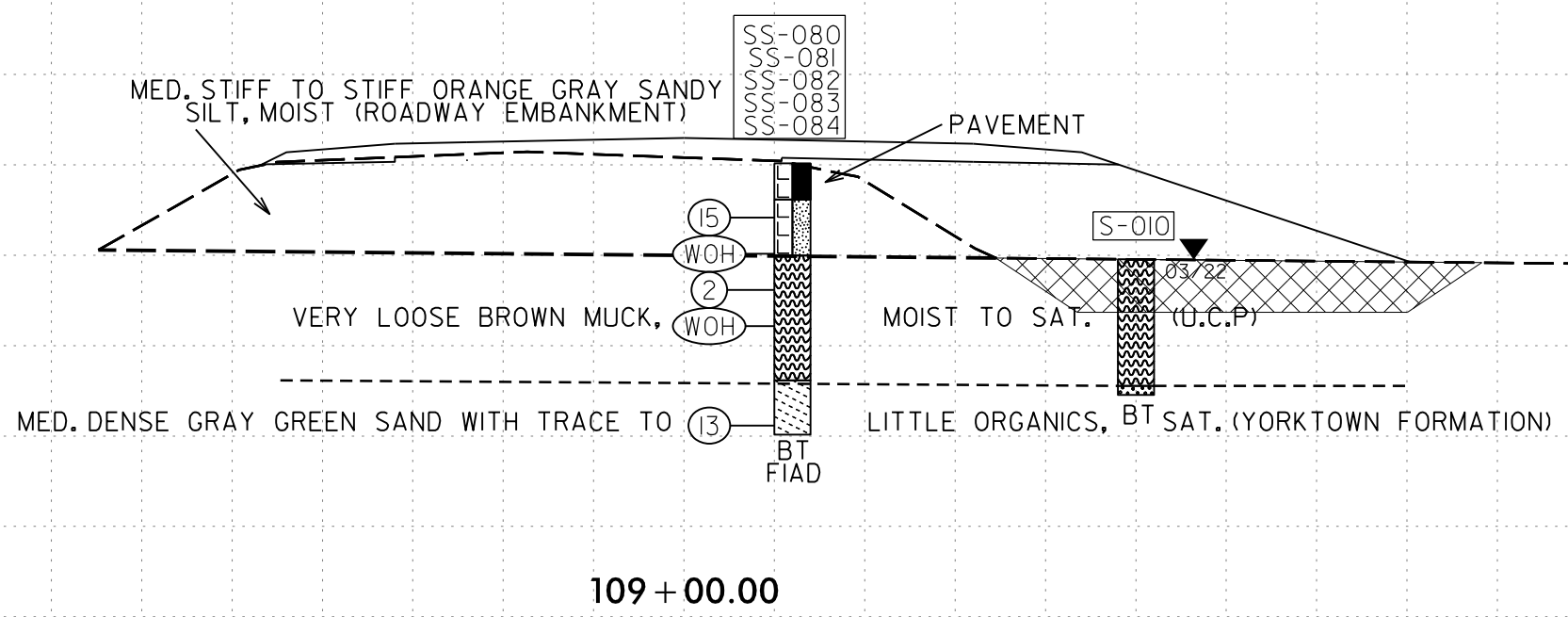
VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

108 + 50.00

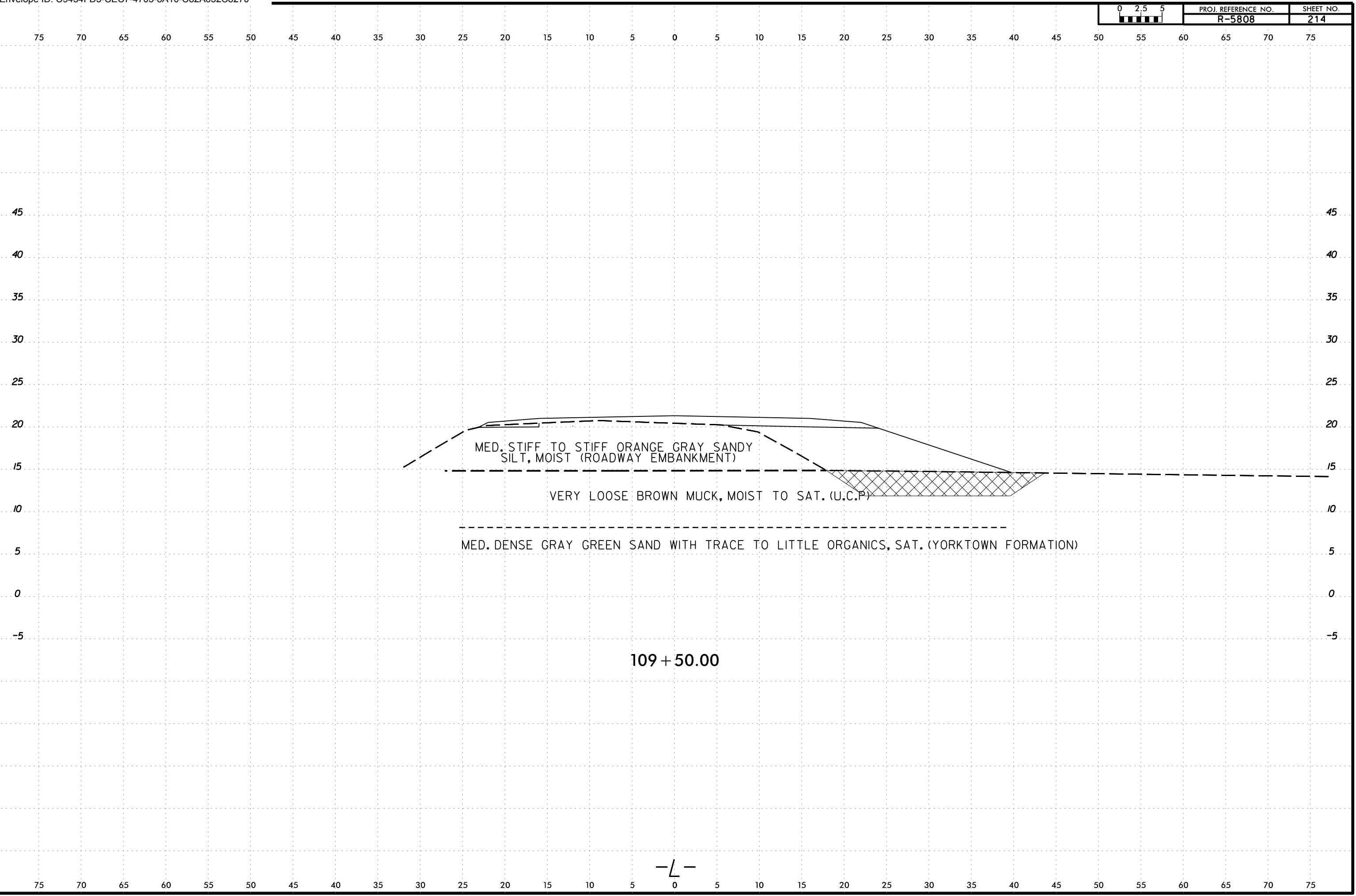


SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-010	25 ft RT	109+00	0.0 - 7.0	A-4(0)	NP	NP	18.2	6.2	75.4	0.2	99.9	85	76	332	62.7
SS-080	6 ft RT	109+00	5.0 - 6.0	-	NEM	-	-	-	-	-	NEM	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



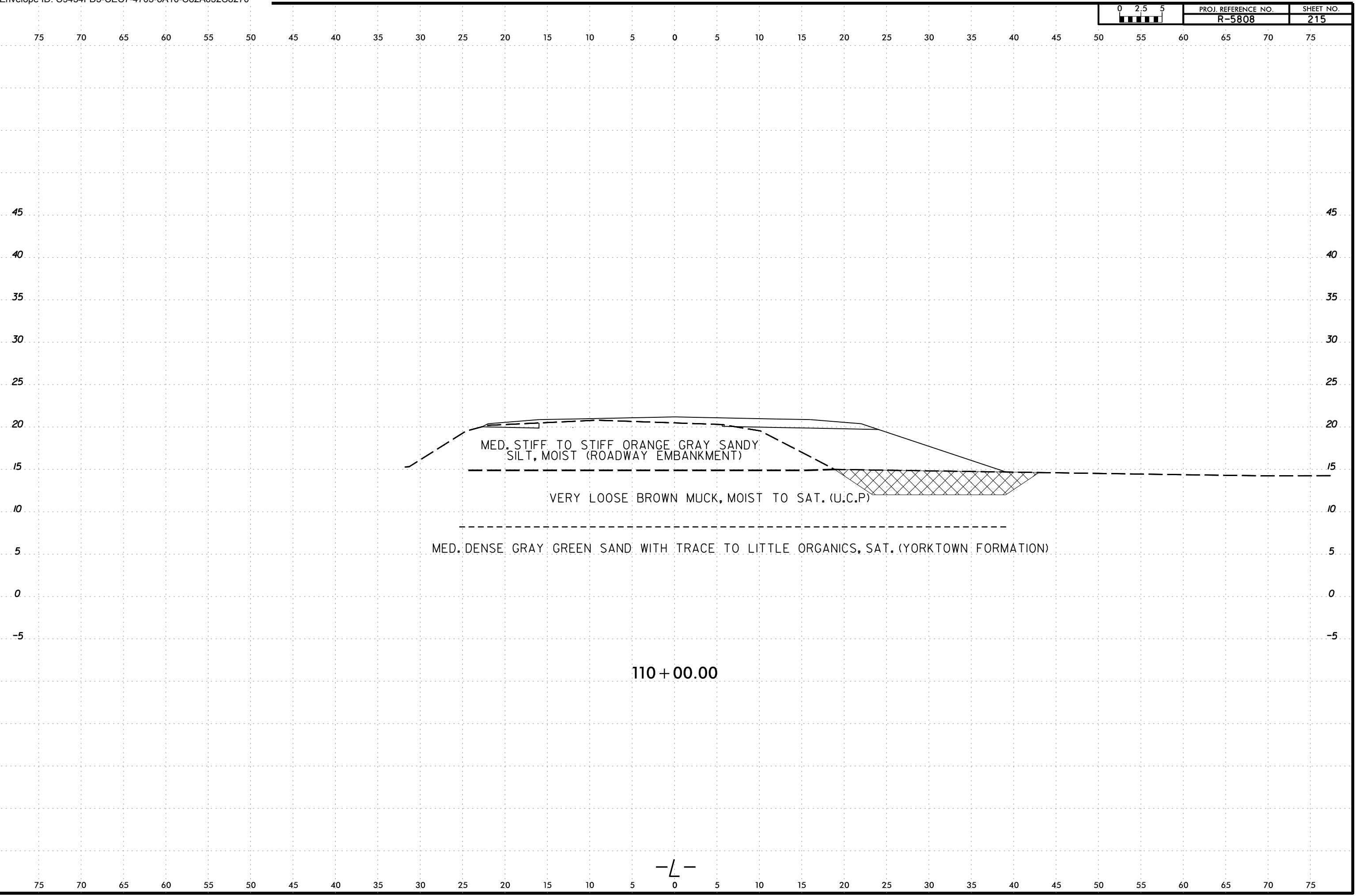
21-MAY-2024 16:50  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\109+00\109+00\GEO\RDWY\CADD\GEO\TECH\SSC\R5808L\_Geo\_XSR\_2.dgn  
 jstone

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

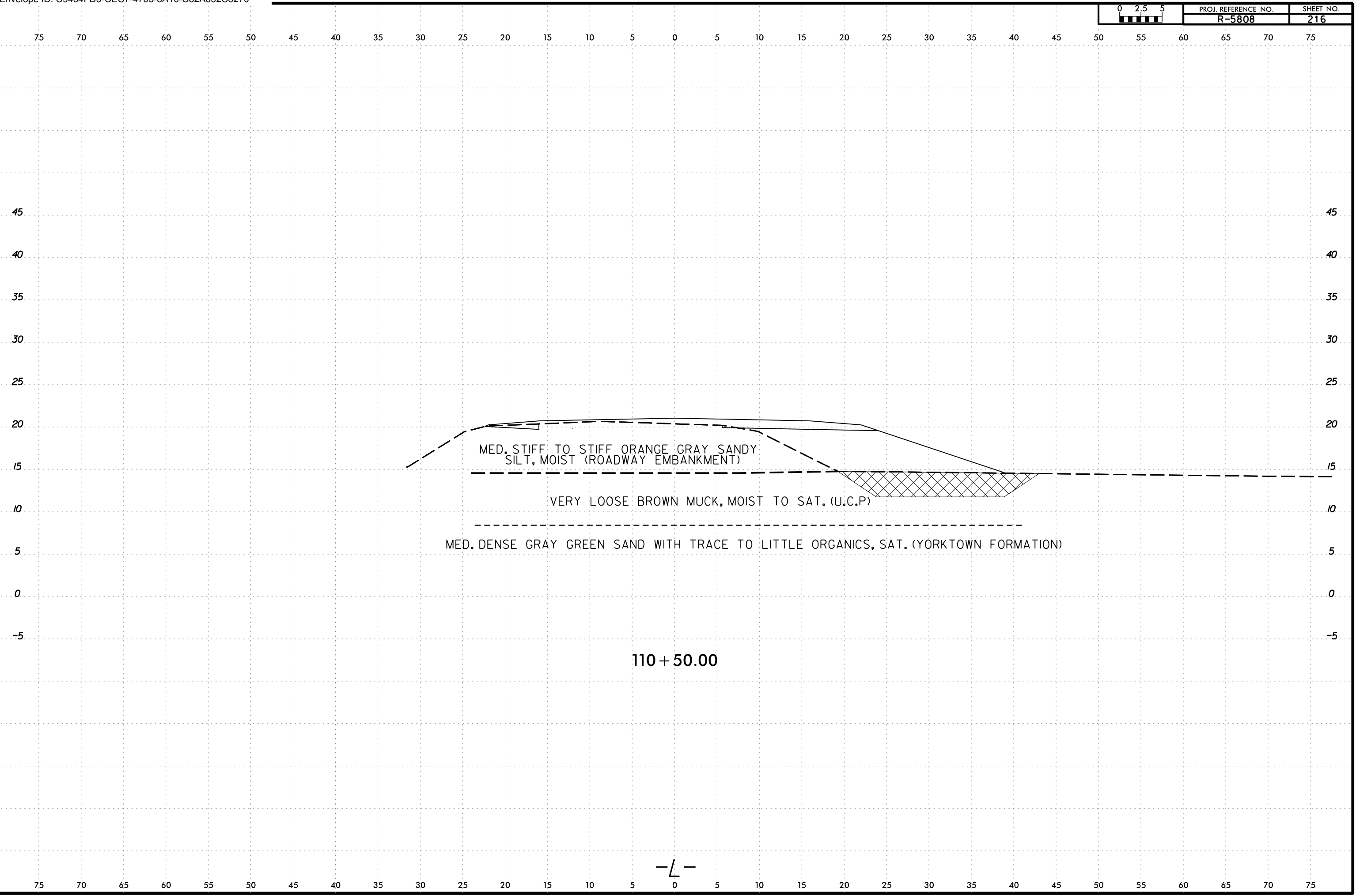


-L-

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone

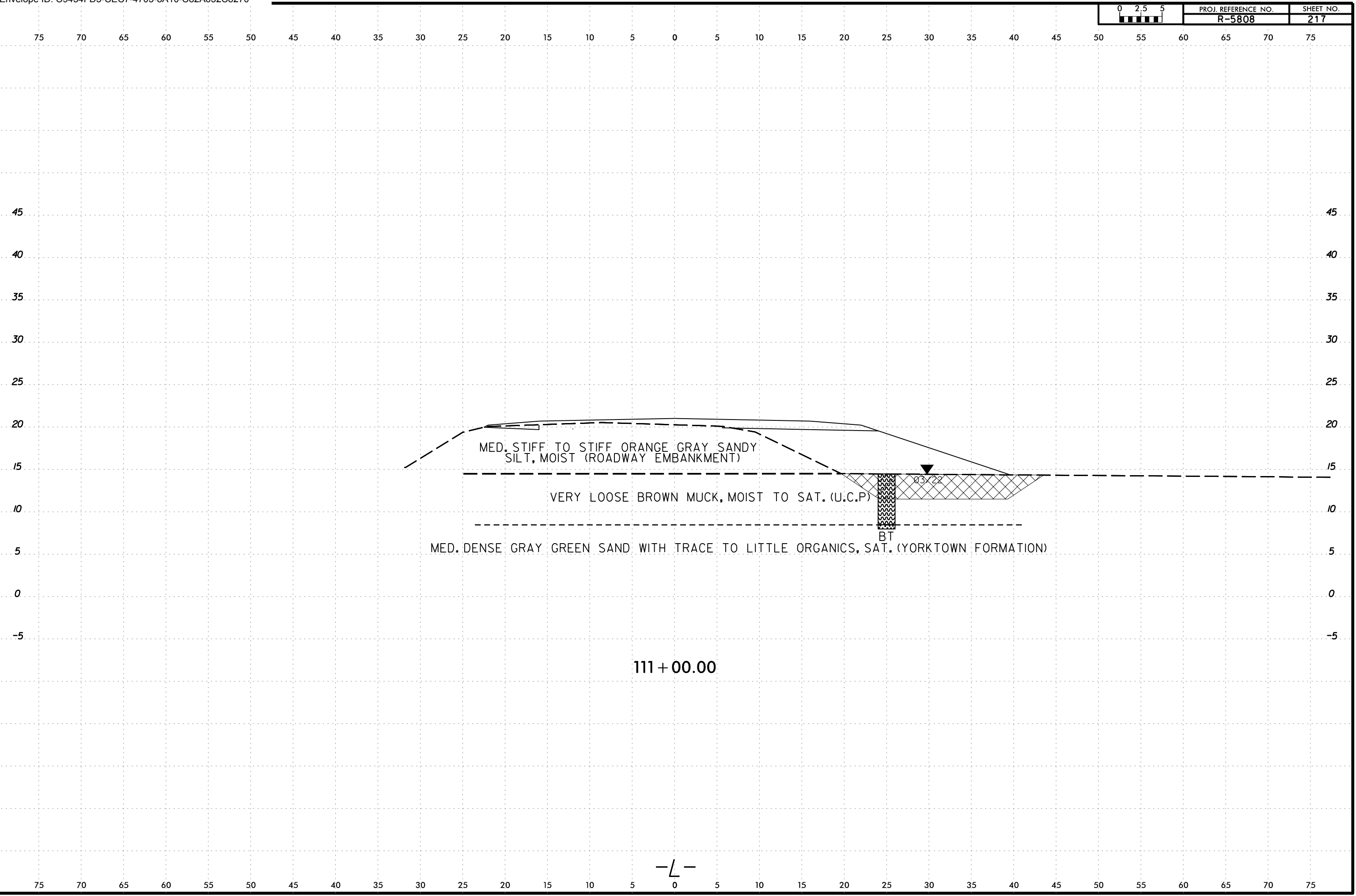


6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



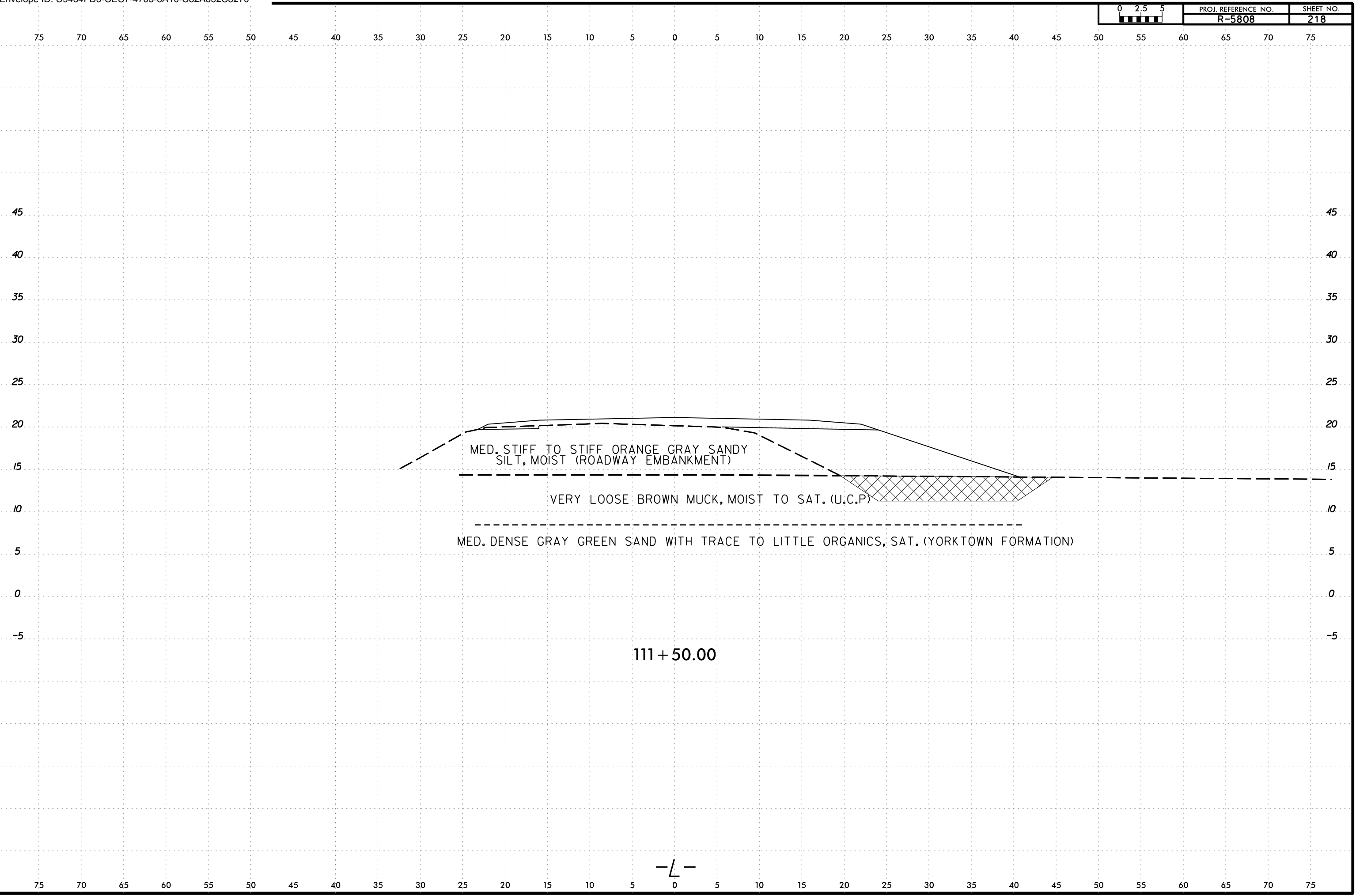


6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

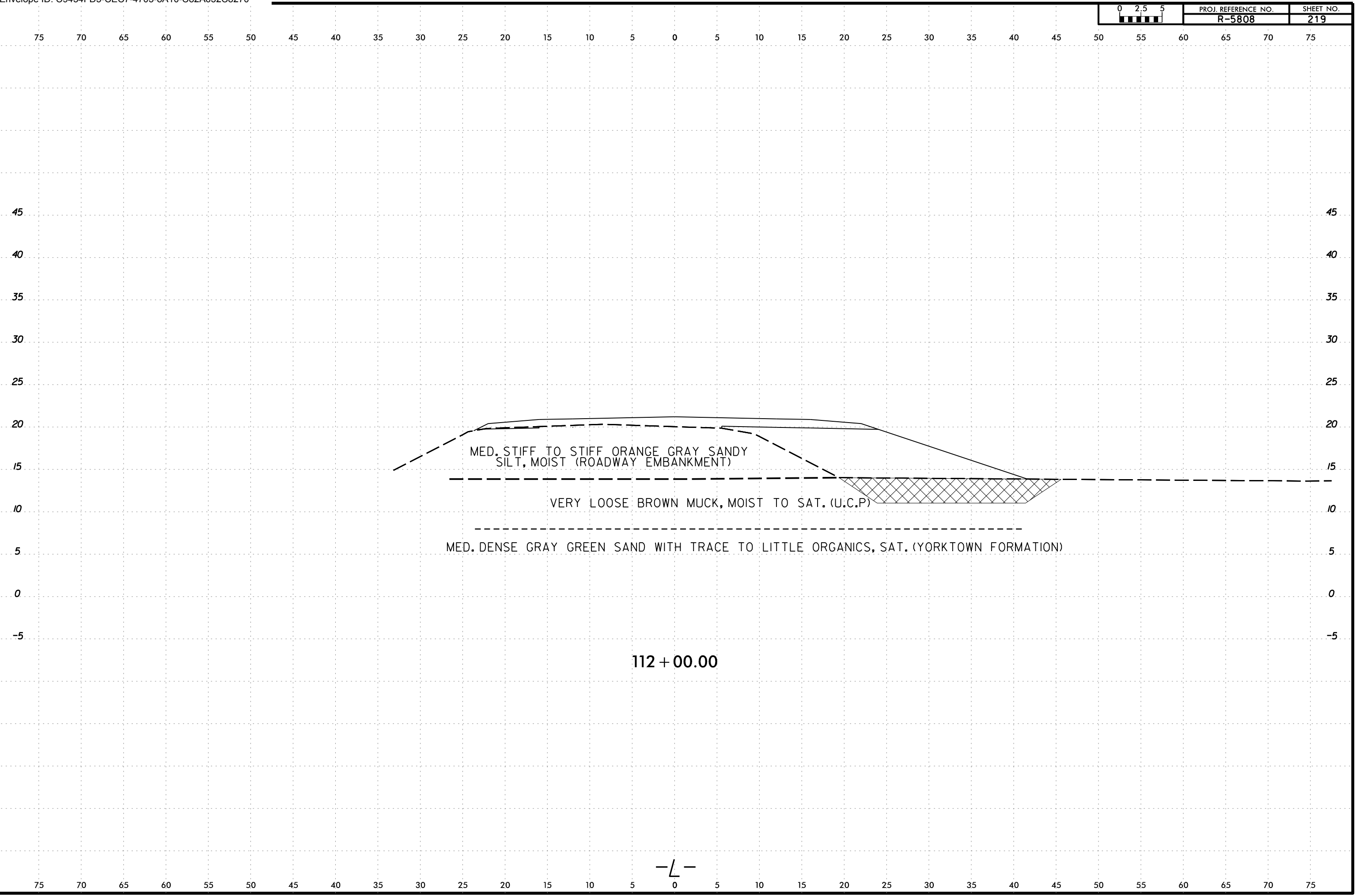


-L-

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

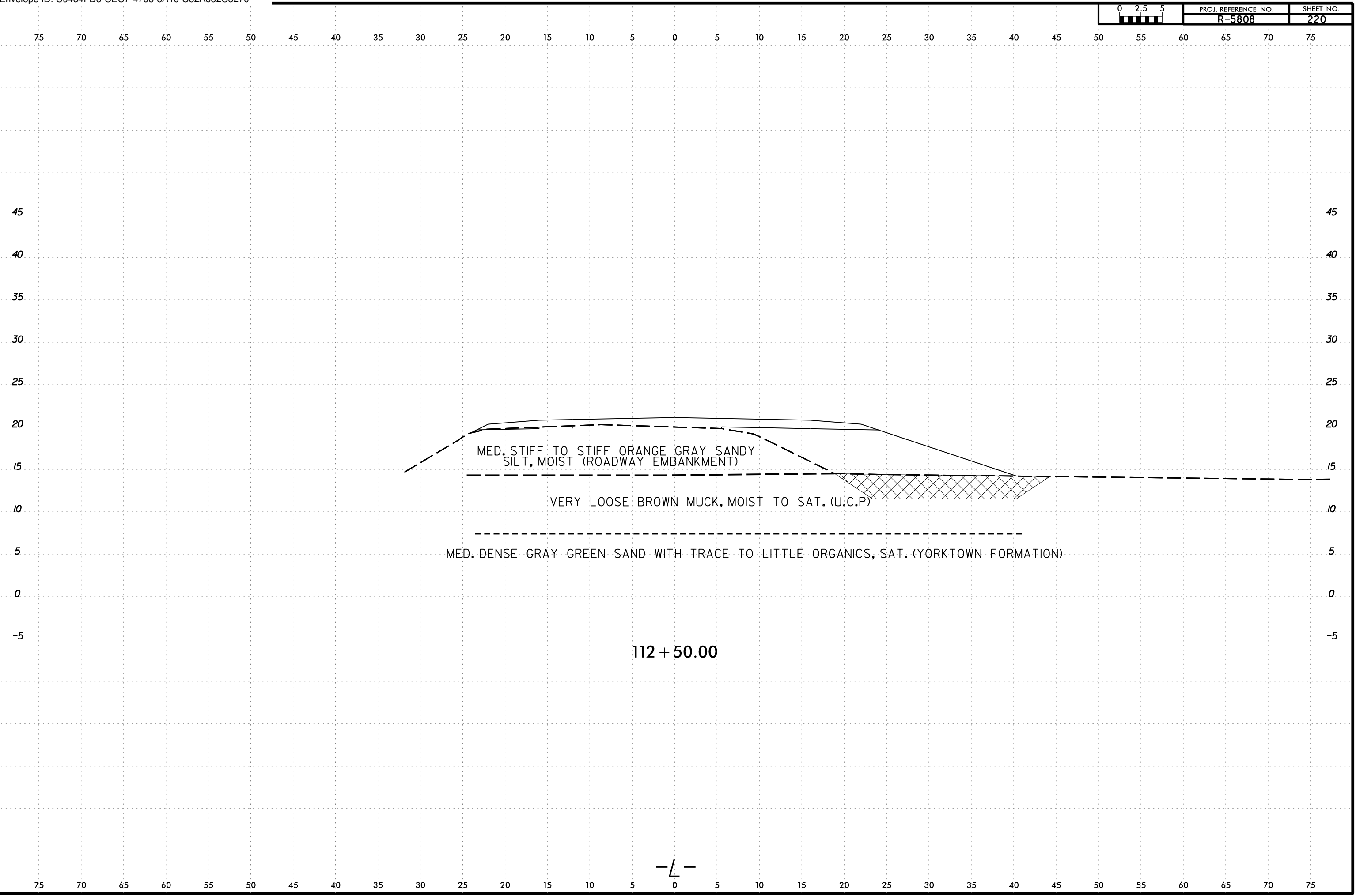


6/23/16  
2-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



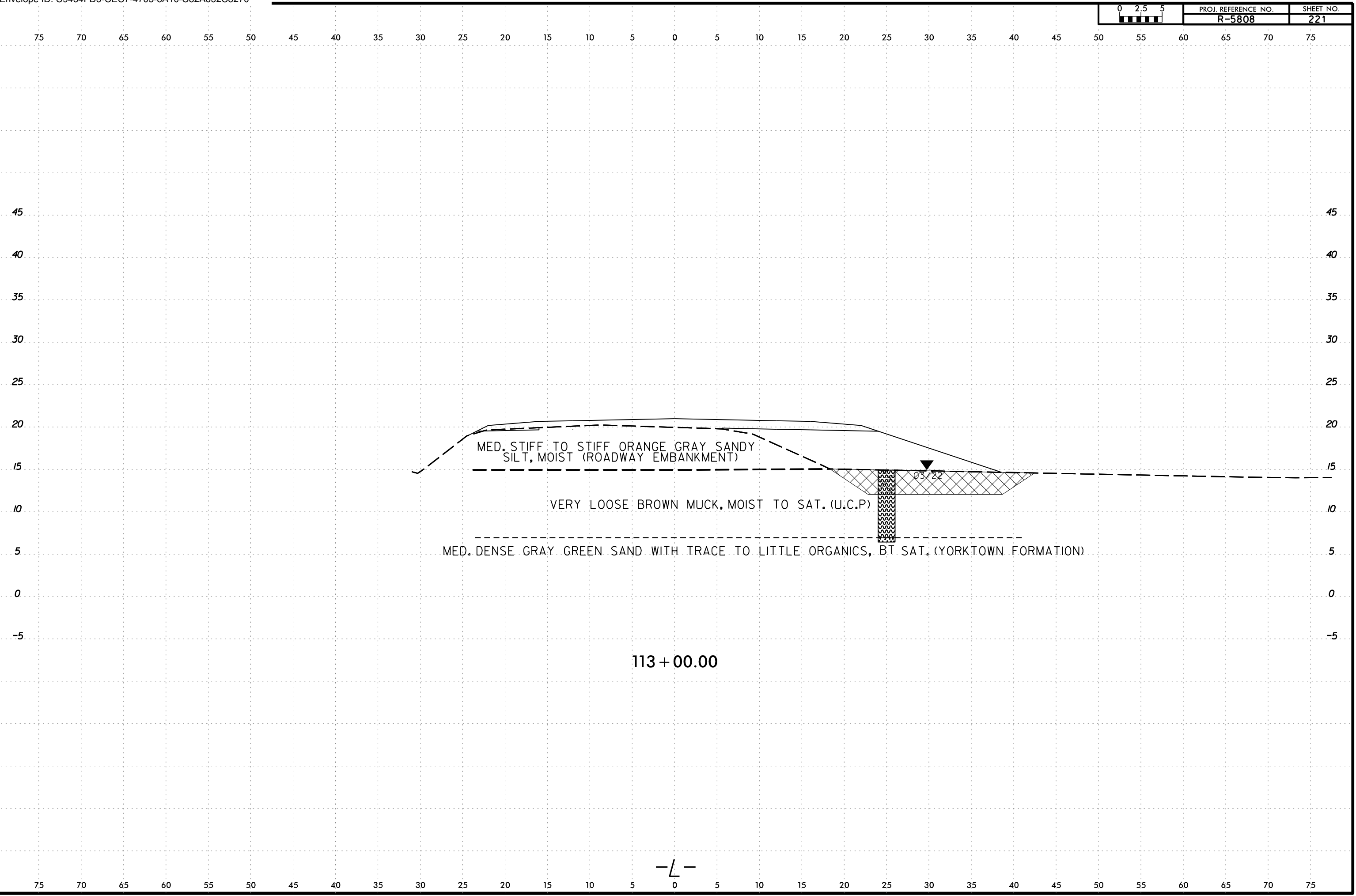
-L-

6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

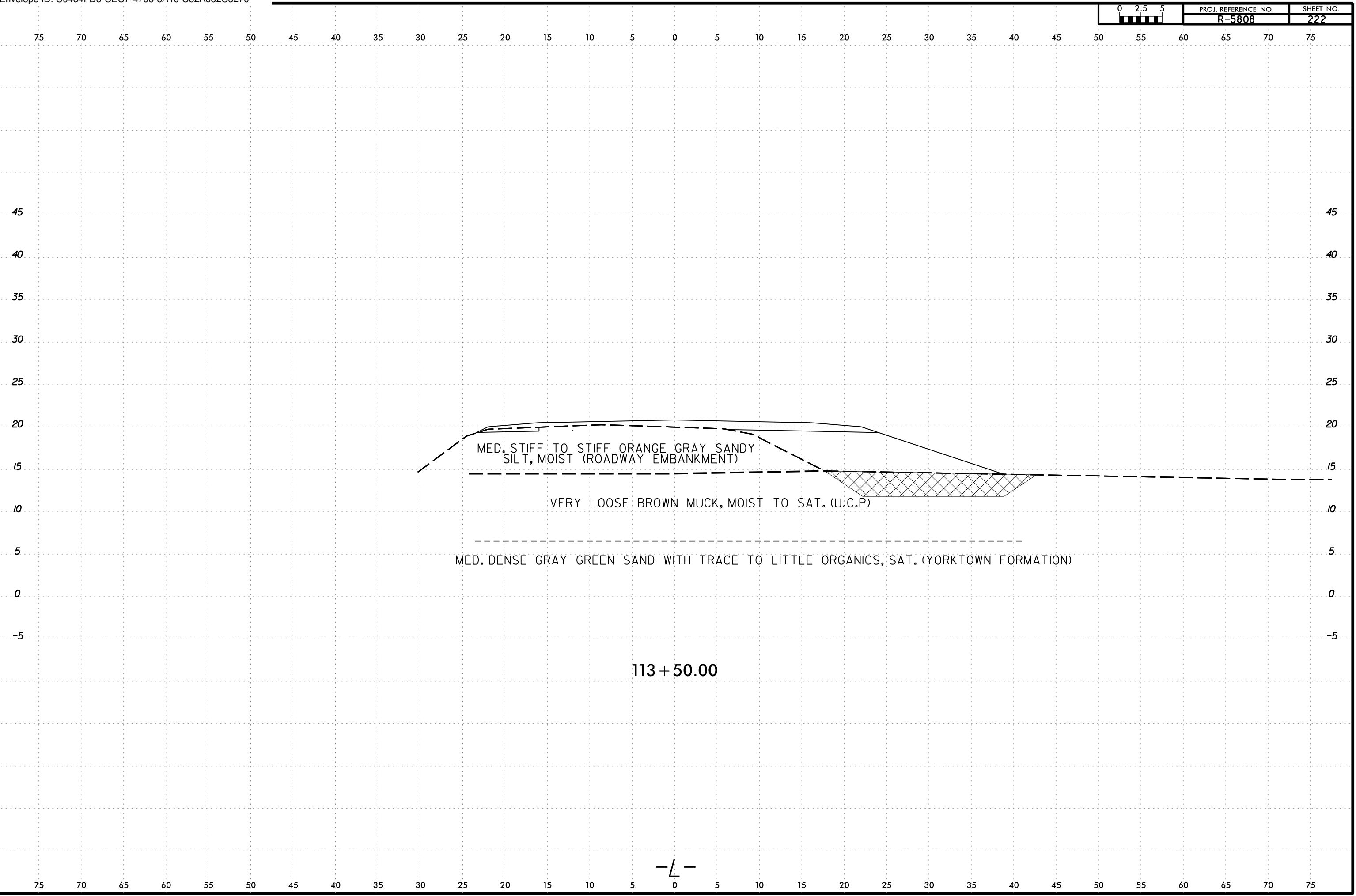


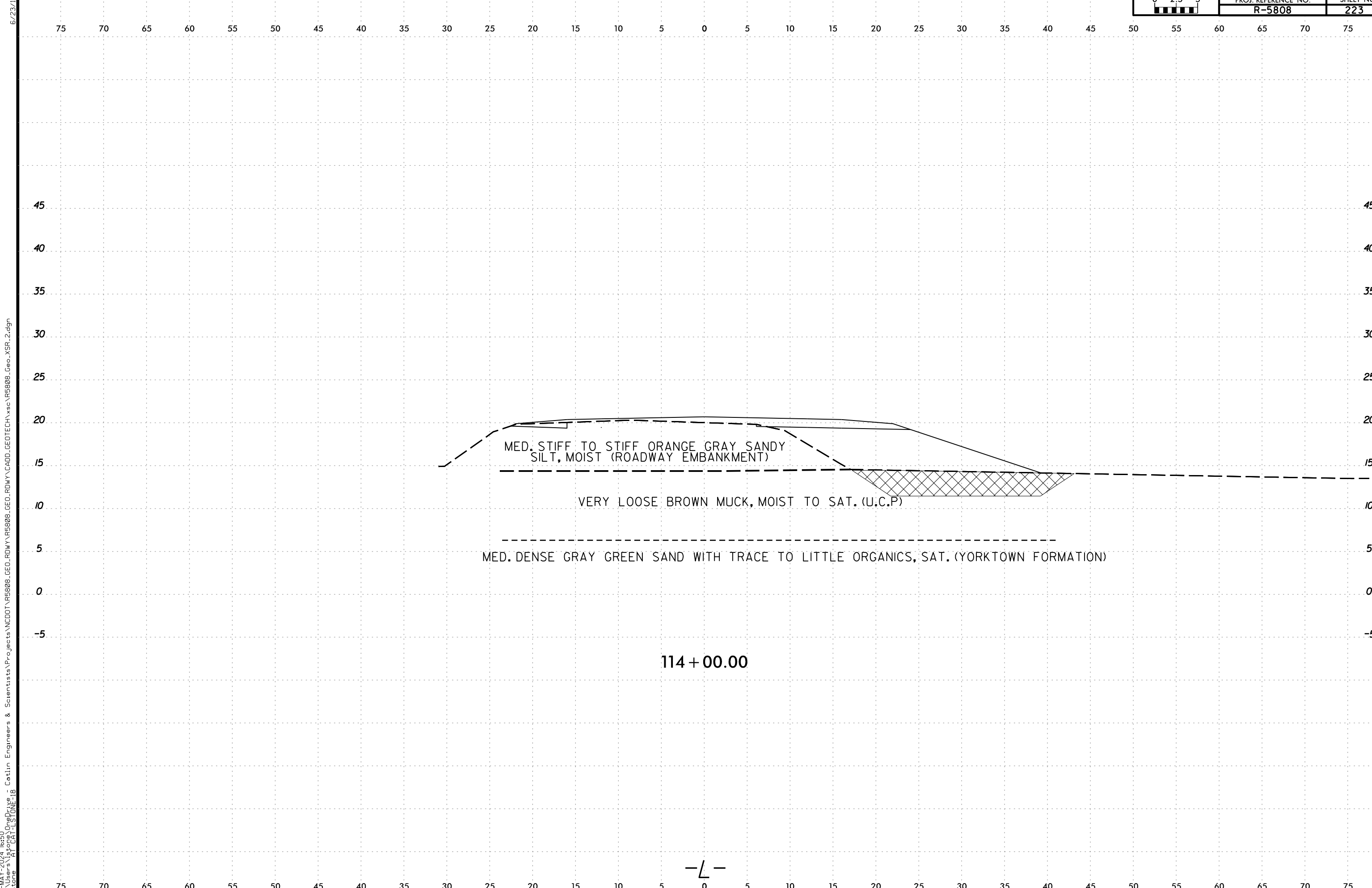
-L-

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

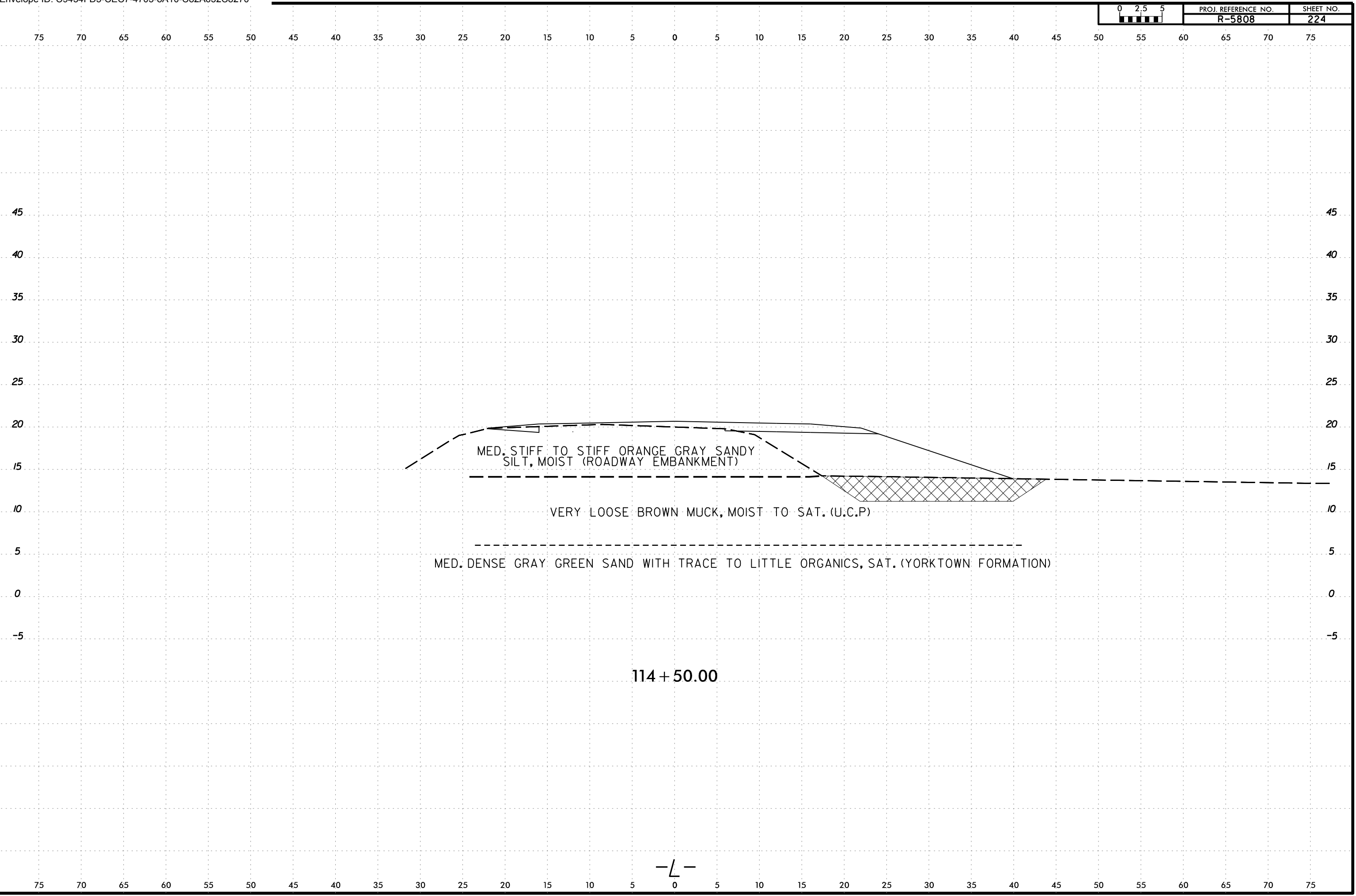




21-MAY-2024 16:50  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
 jstone  
 AT CAT-1 STONE-18

-L-

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



-L-

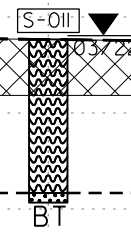


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-011	25 ft RT	115+00	0.0 - 8.0	A-2-4(0)	NP	NP	25.4	45.4	24.8	4.5	99.3	89	32	278	21.7

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)



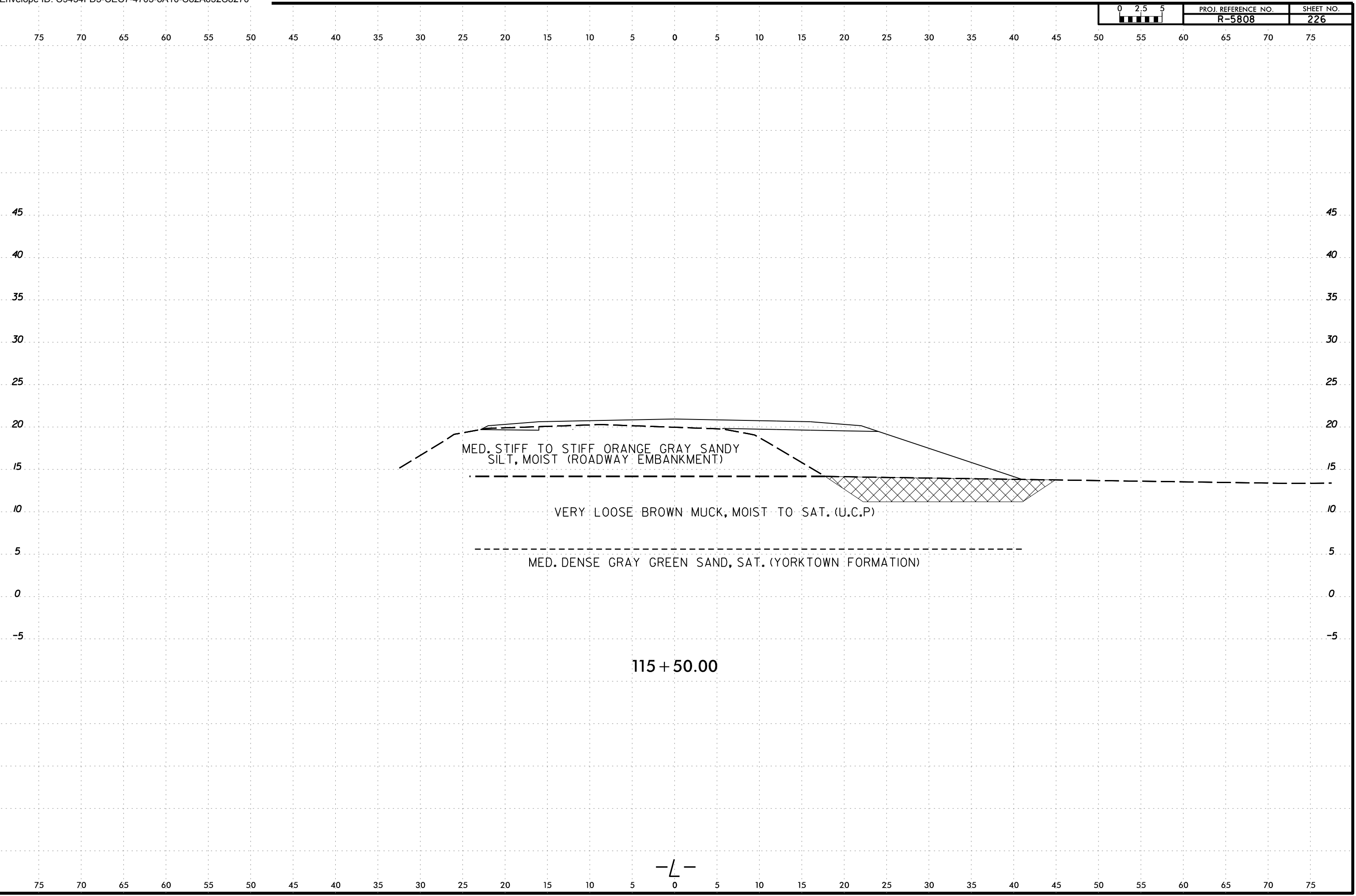
115 + 00.00

-L-

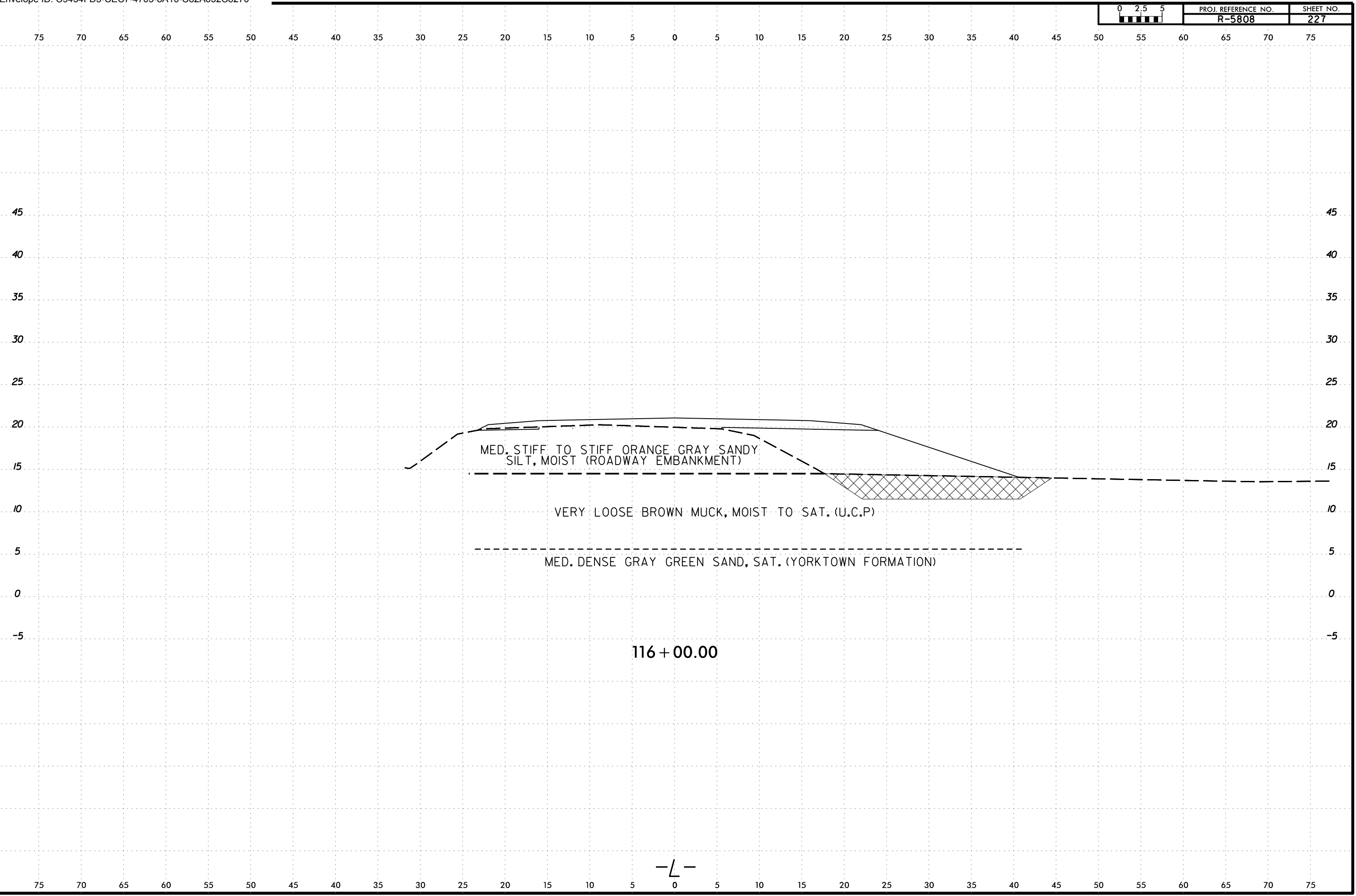
21-MAY-2024 16:50  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\115808\_GEO\RDWY\115808\_GEO\RDWY\CADD\GEO\TECH\XSEC\115808\_GEO\_XSR\_2.dgn  
 jstone

6/23/16

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



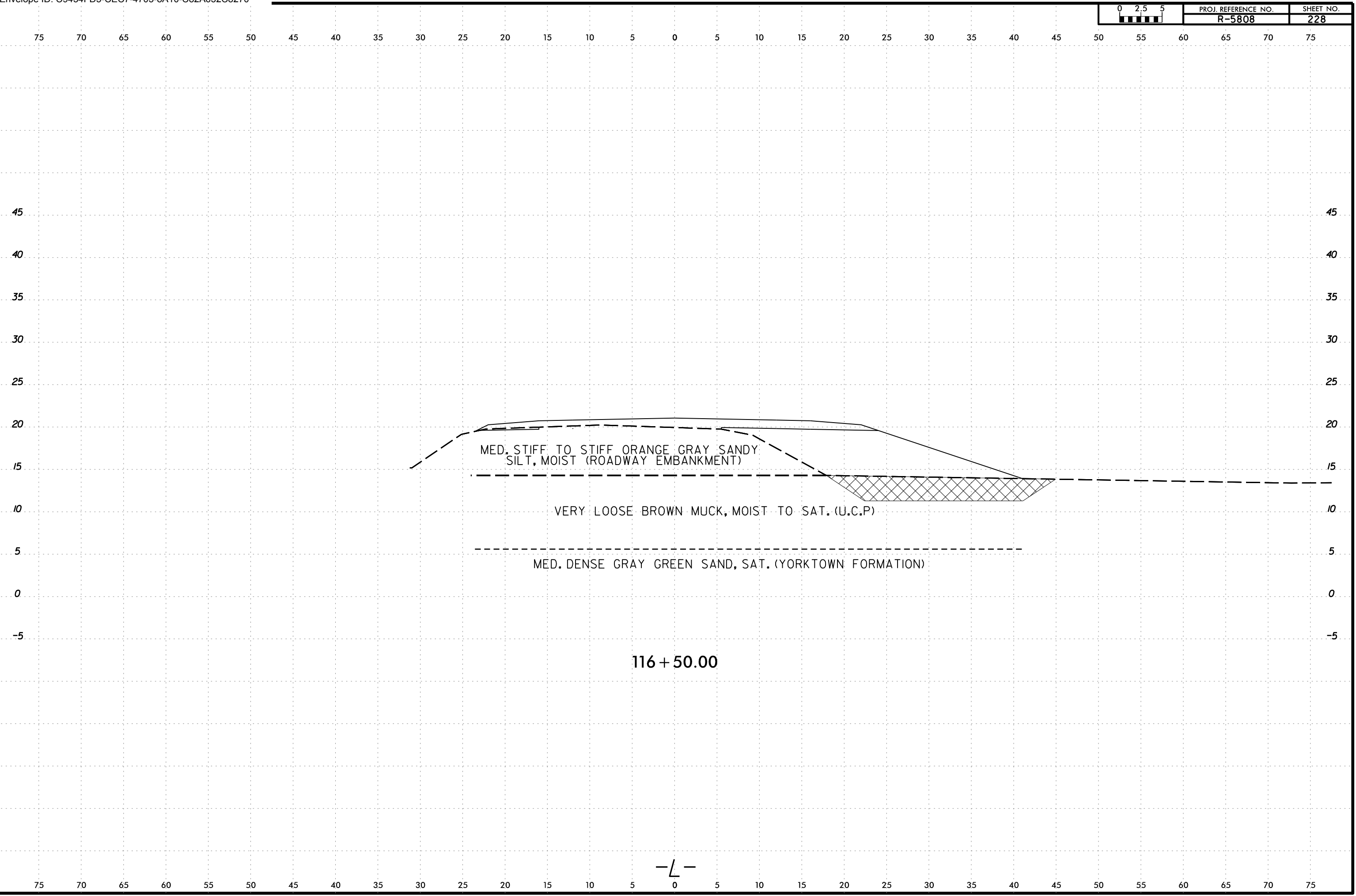
6/23/16  
21-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone

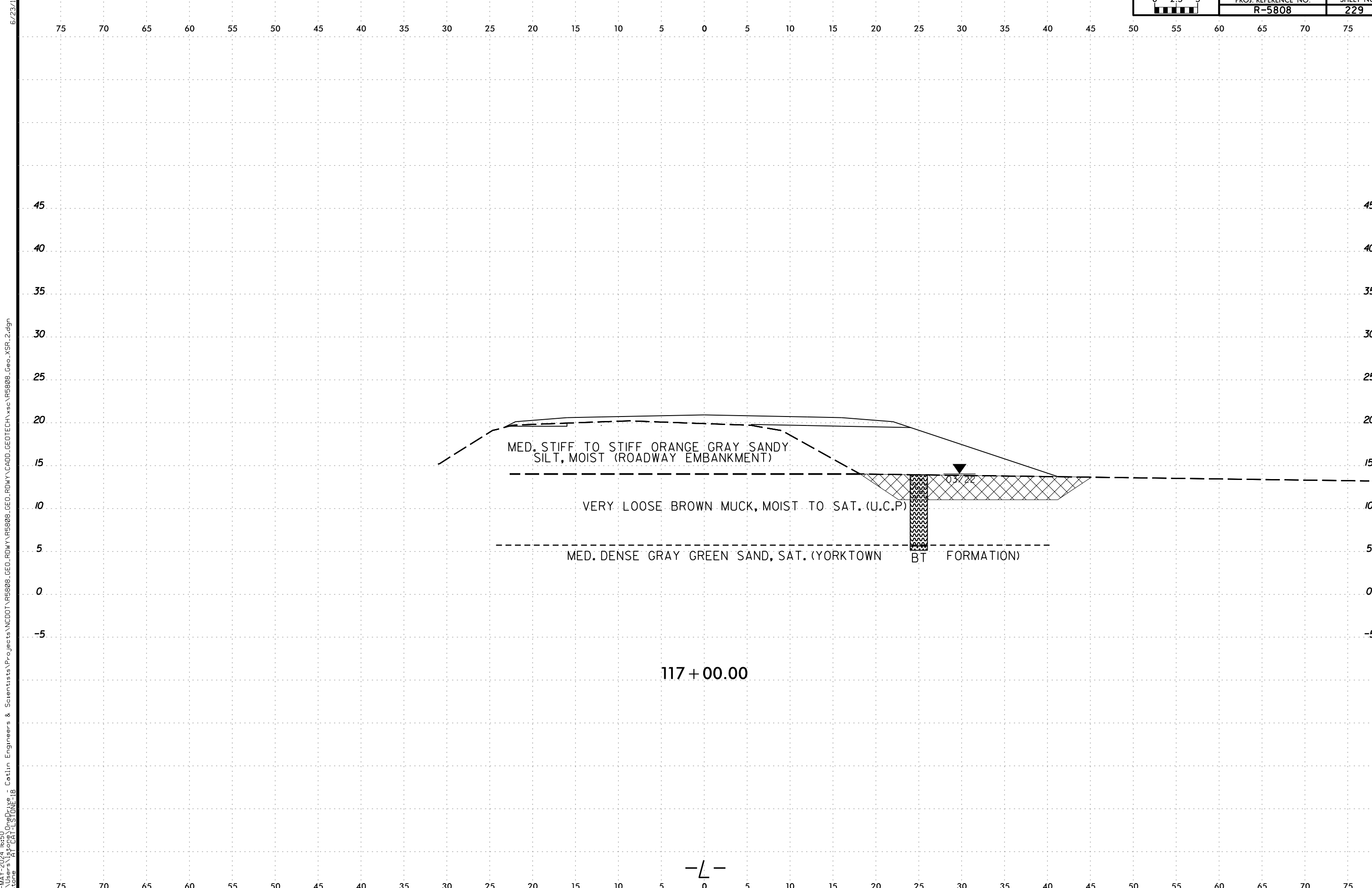


116 + 00.00

-L-

6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
116 + 50.00





MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN BT FORMATION)

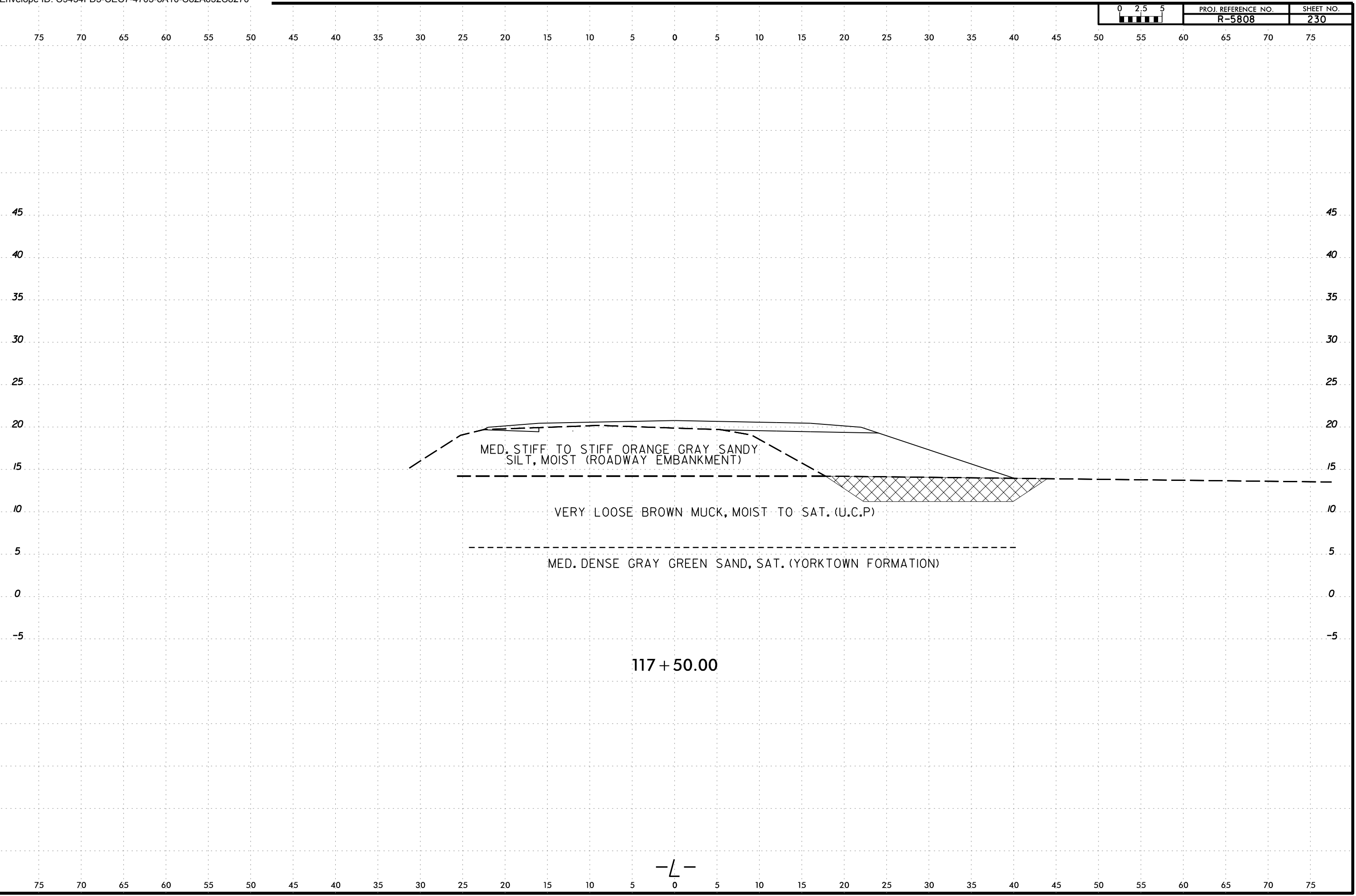
117 + 00.00

-L-

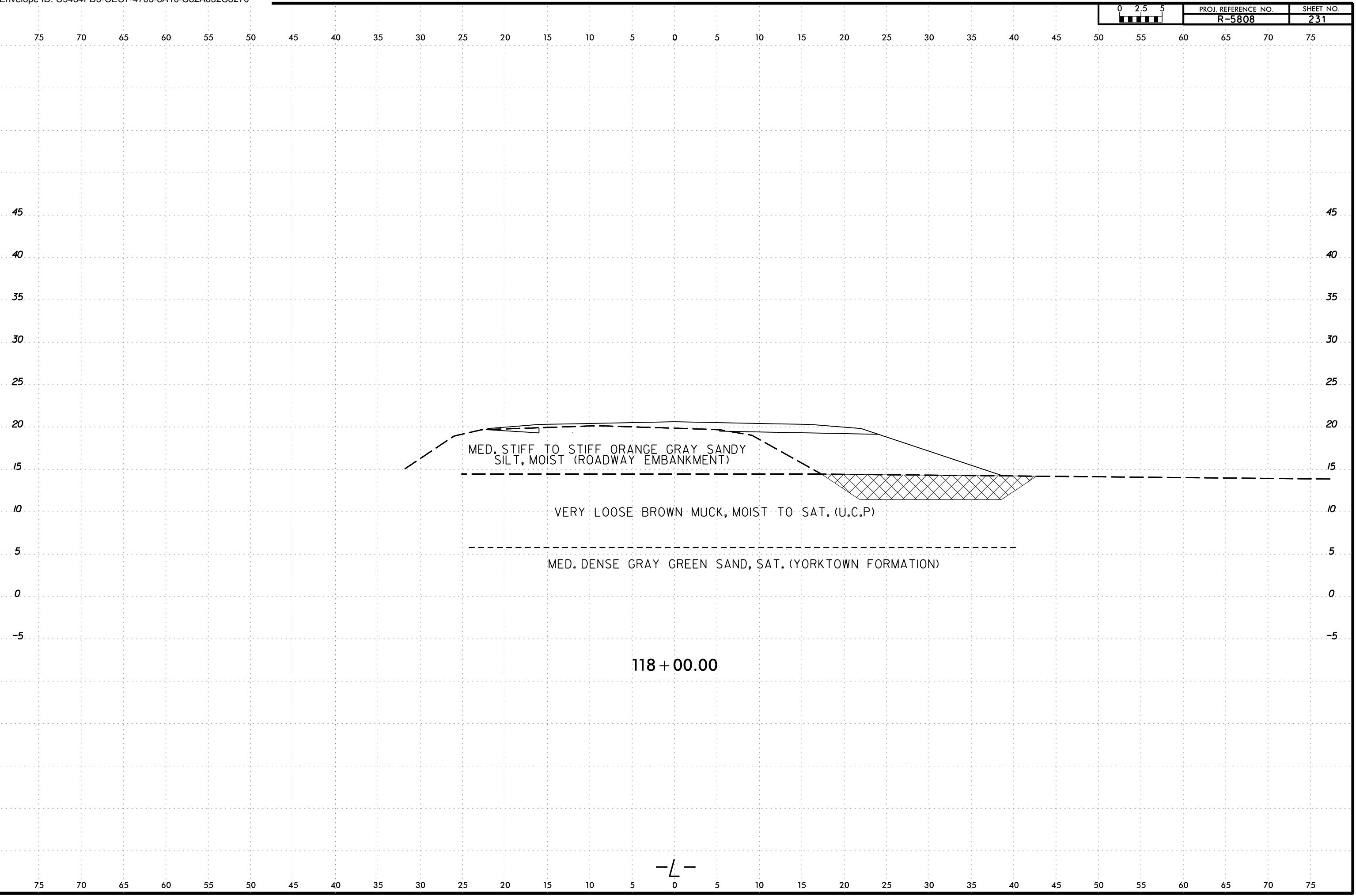
2-MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

6/23/16

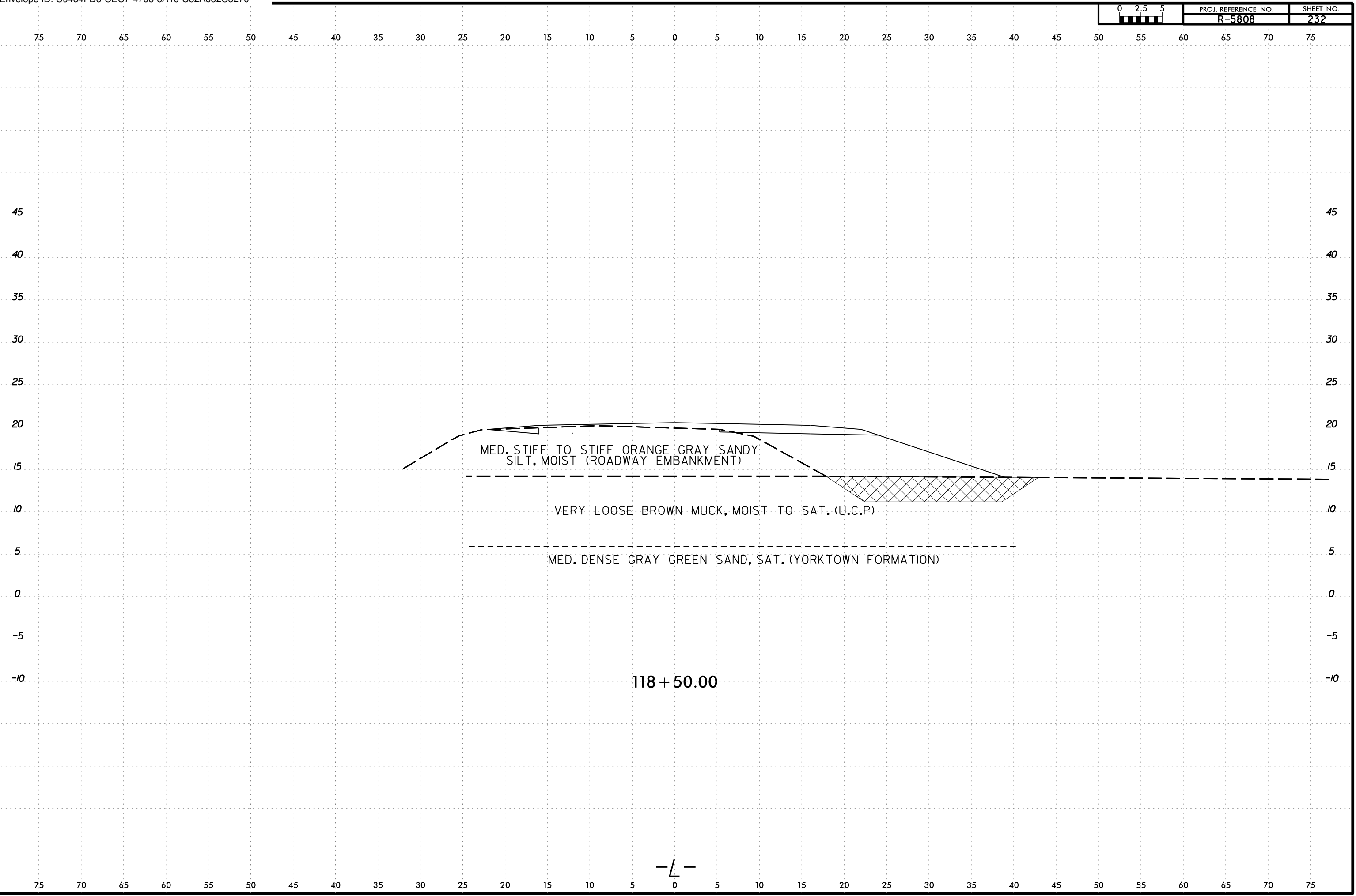
6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



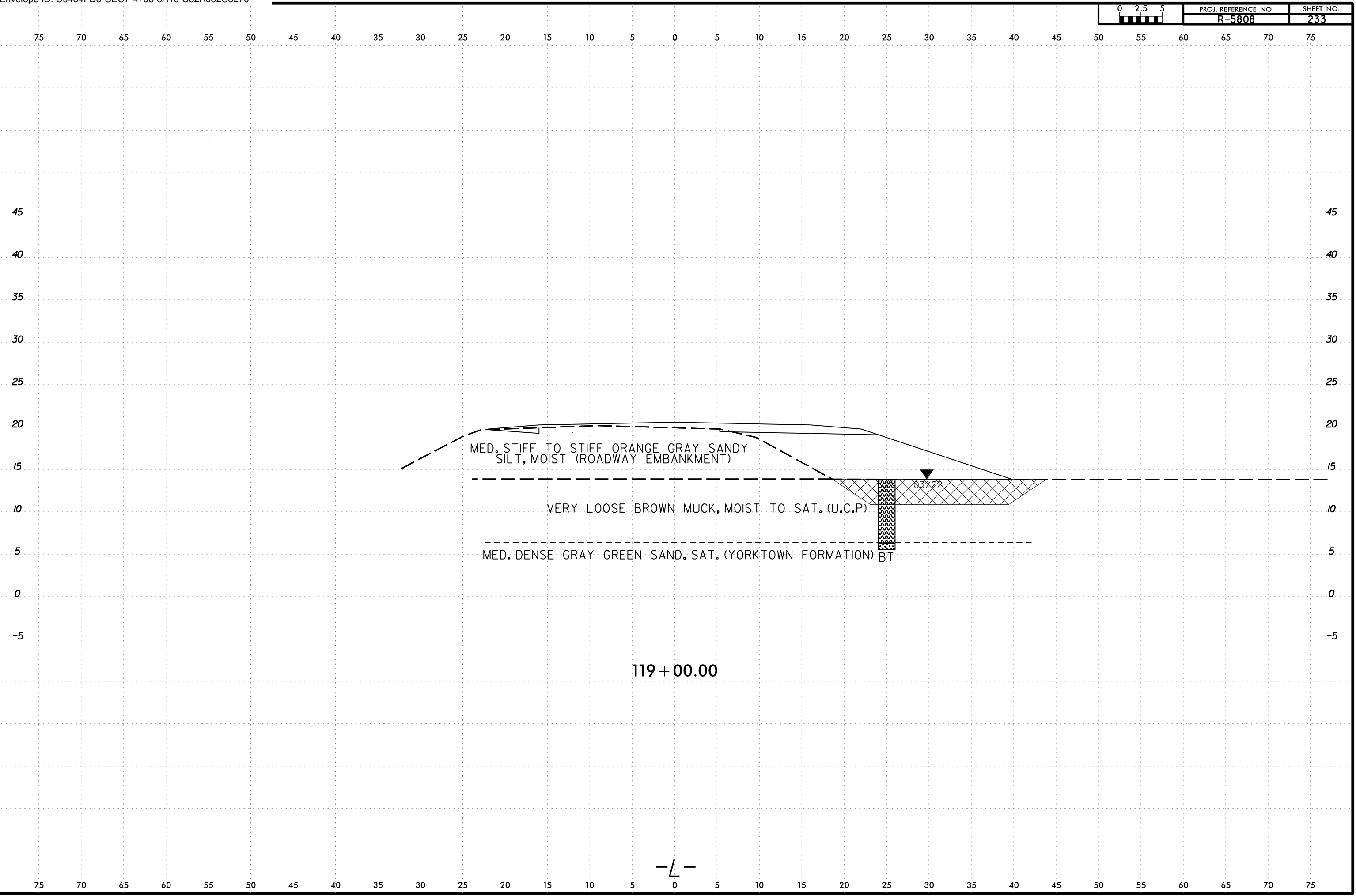
6/23/16  
21MAY-2024 16:50  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



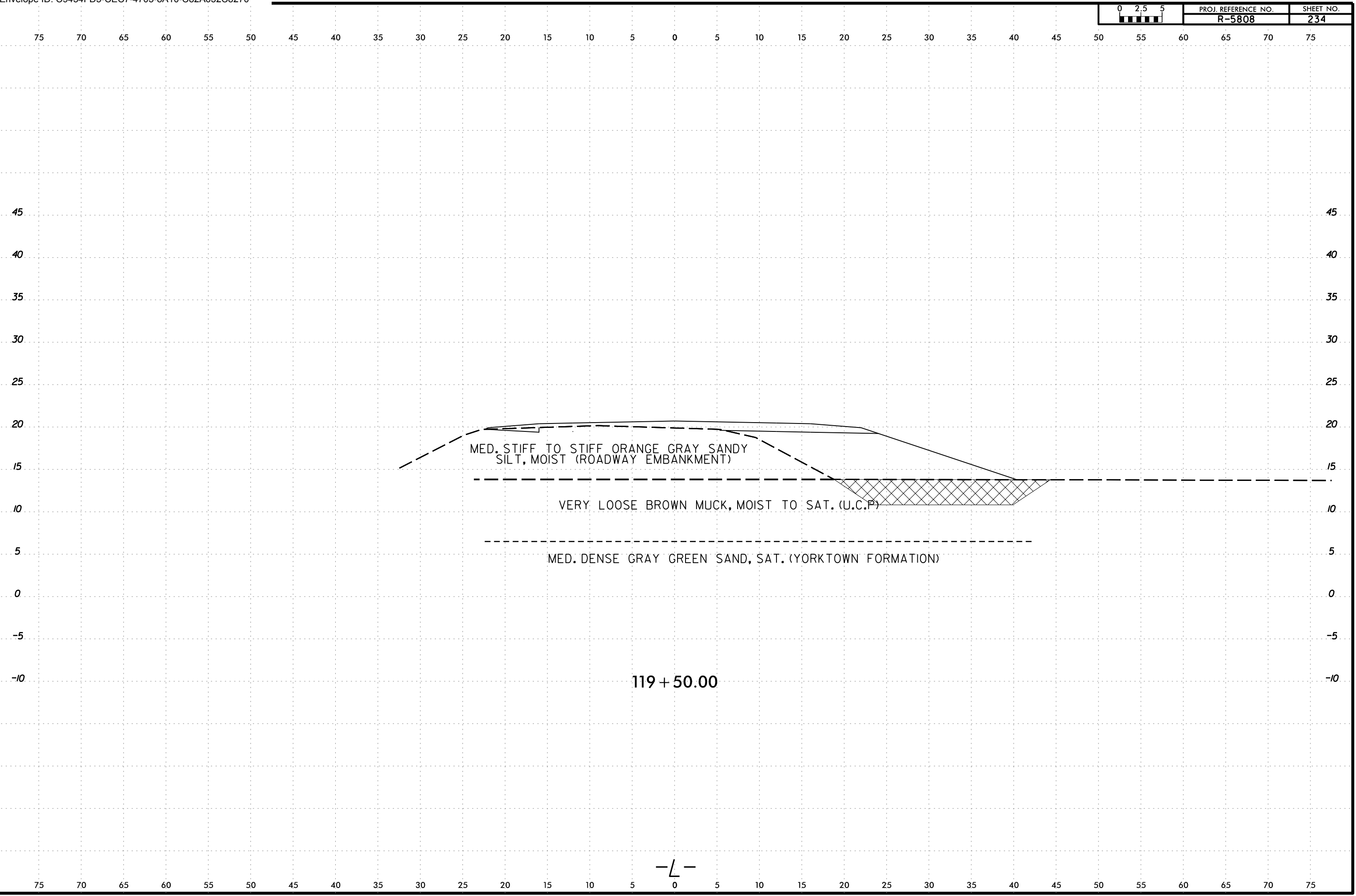
—L—



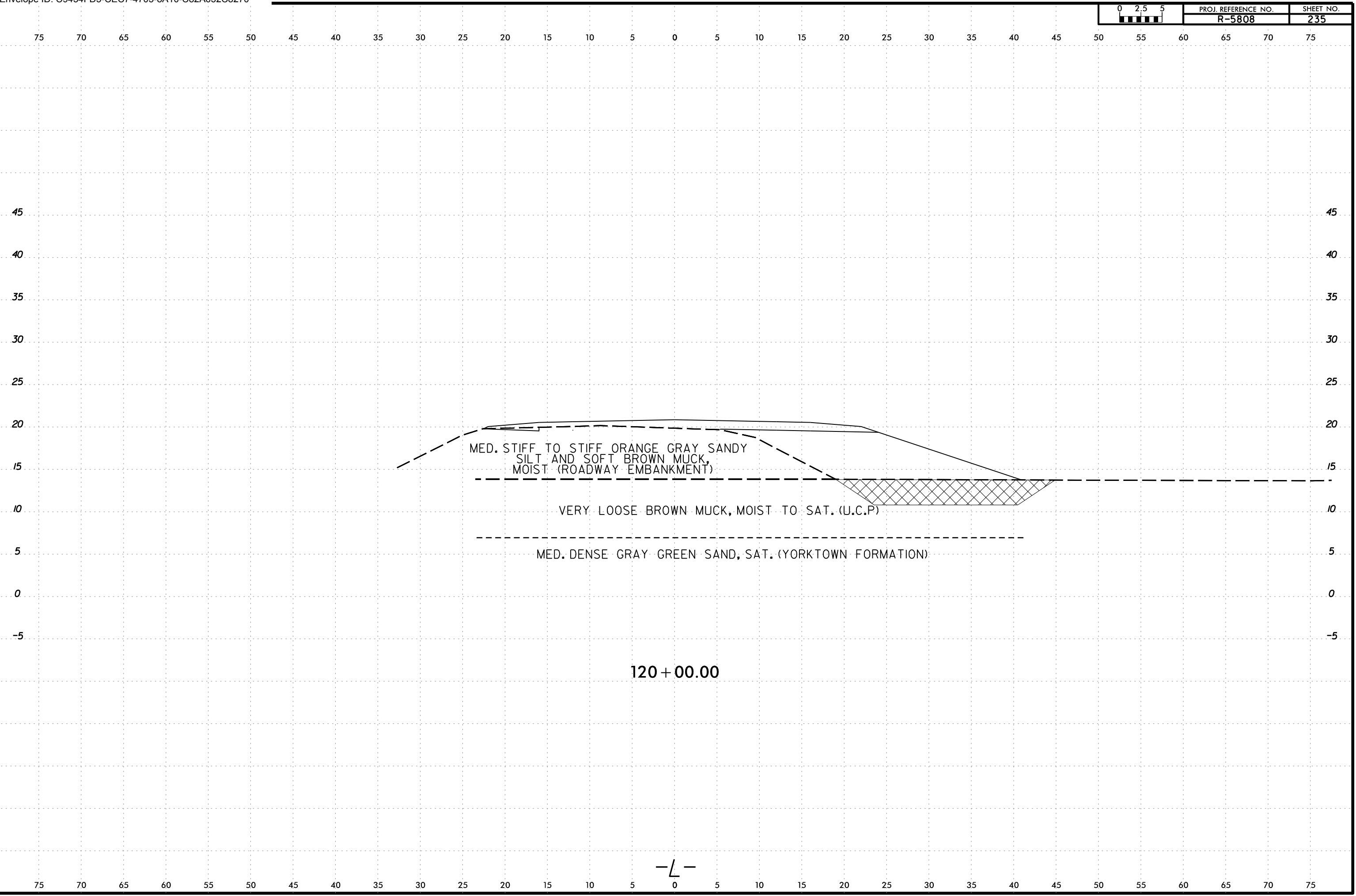
6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\VR5808\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



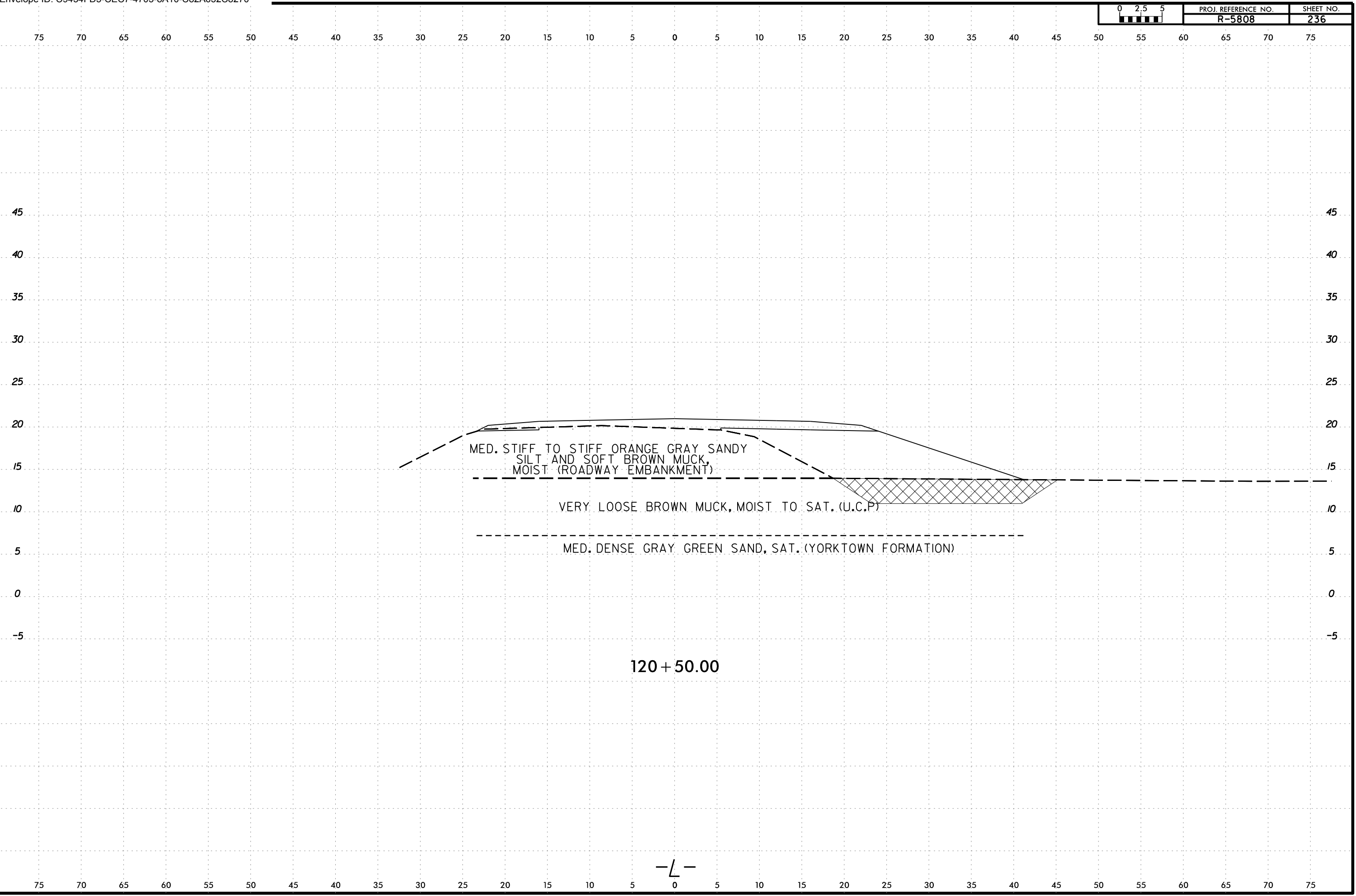
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



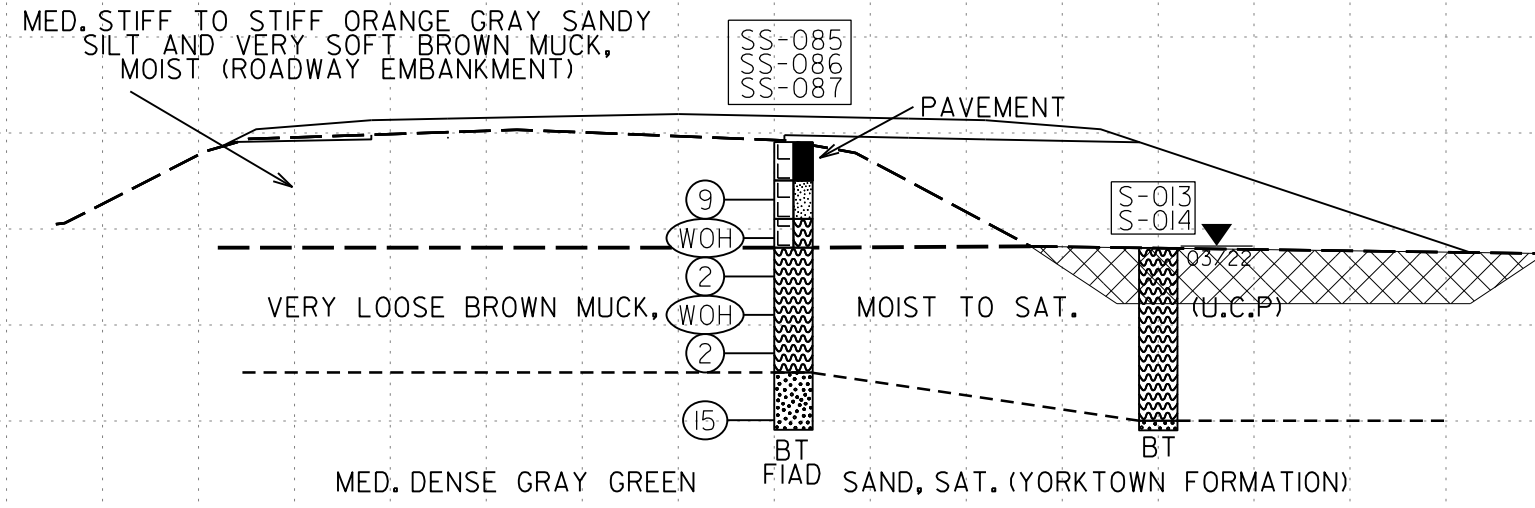
6/23/16  
2\MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



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-013	25 ft RT	121+00	0.0 - 9.0	()	NEM	-		
S-014	25 ft RT	121+00	9.0 - 9.5	A-2-4(0)	NEM	NEM	34.9	44.7	8.1	12.4	99	84	24	-	-
SS-085	25 ft RT	121+00	4.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	10.5
SS-086	25 ft RT	121+00	6.0 - 8.0	-	NP	NP	-	-	-	-	NEM	NEM	NEM	-	50.2
SS-087	25 ft RT	121+00	14.0 - 15.0	A-2-4(0)	NP	NP	36.3	48.9	10.0	4.8	99.7	88	20	-	-



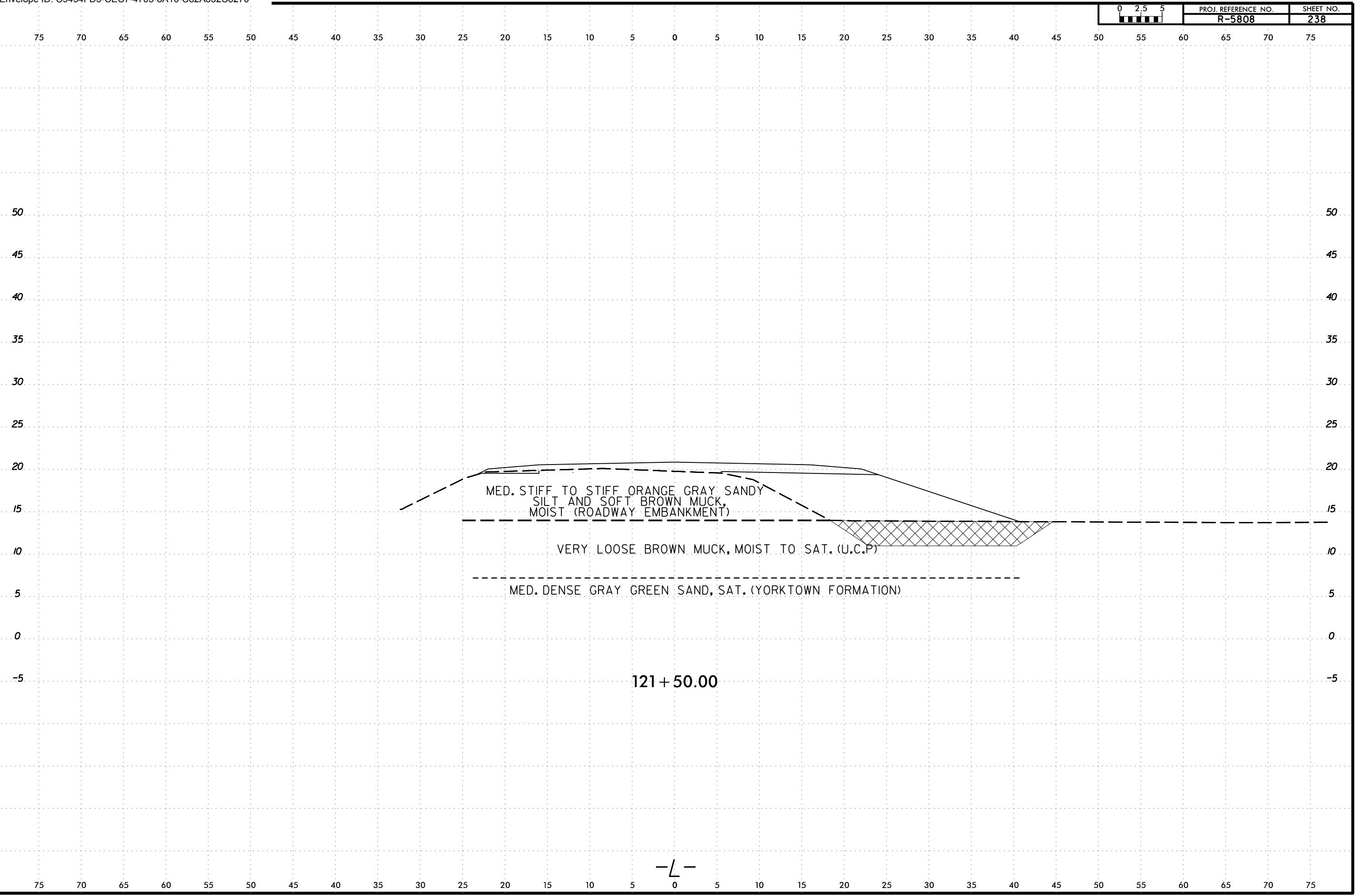
121 + 00.00

-L-

21-MAY-2024 16:51  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\RS808\_GEO\_XSR\_2.dgn  
 jstone  
 AT CAT-1 STONE-18

6/23/16

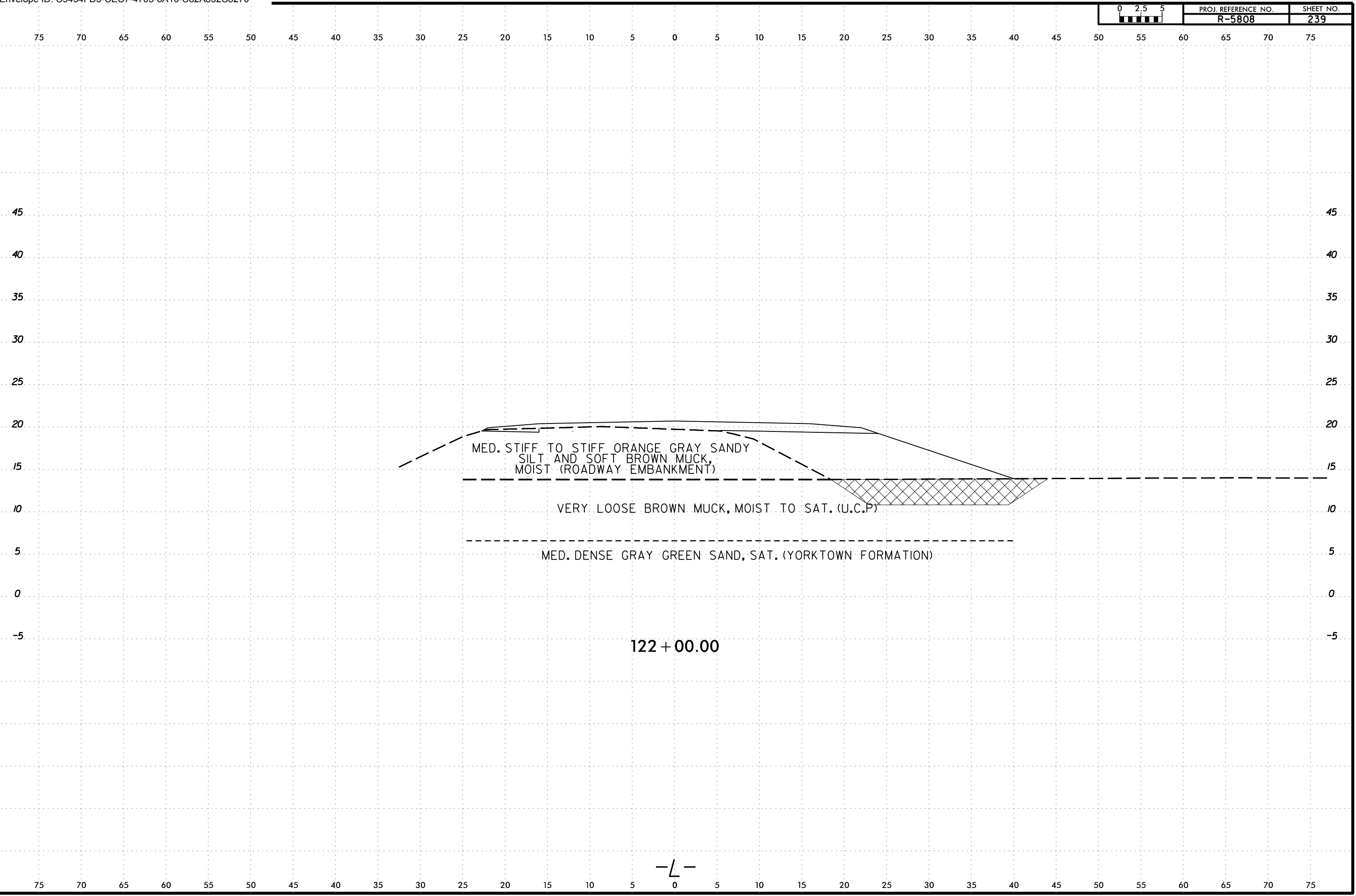
6/23/16  
2\MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



121 + 50.00

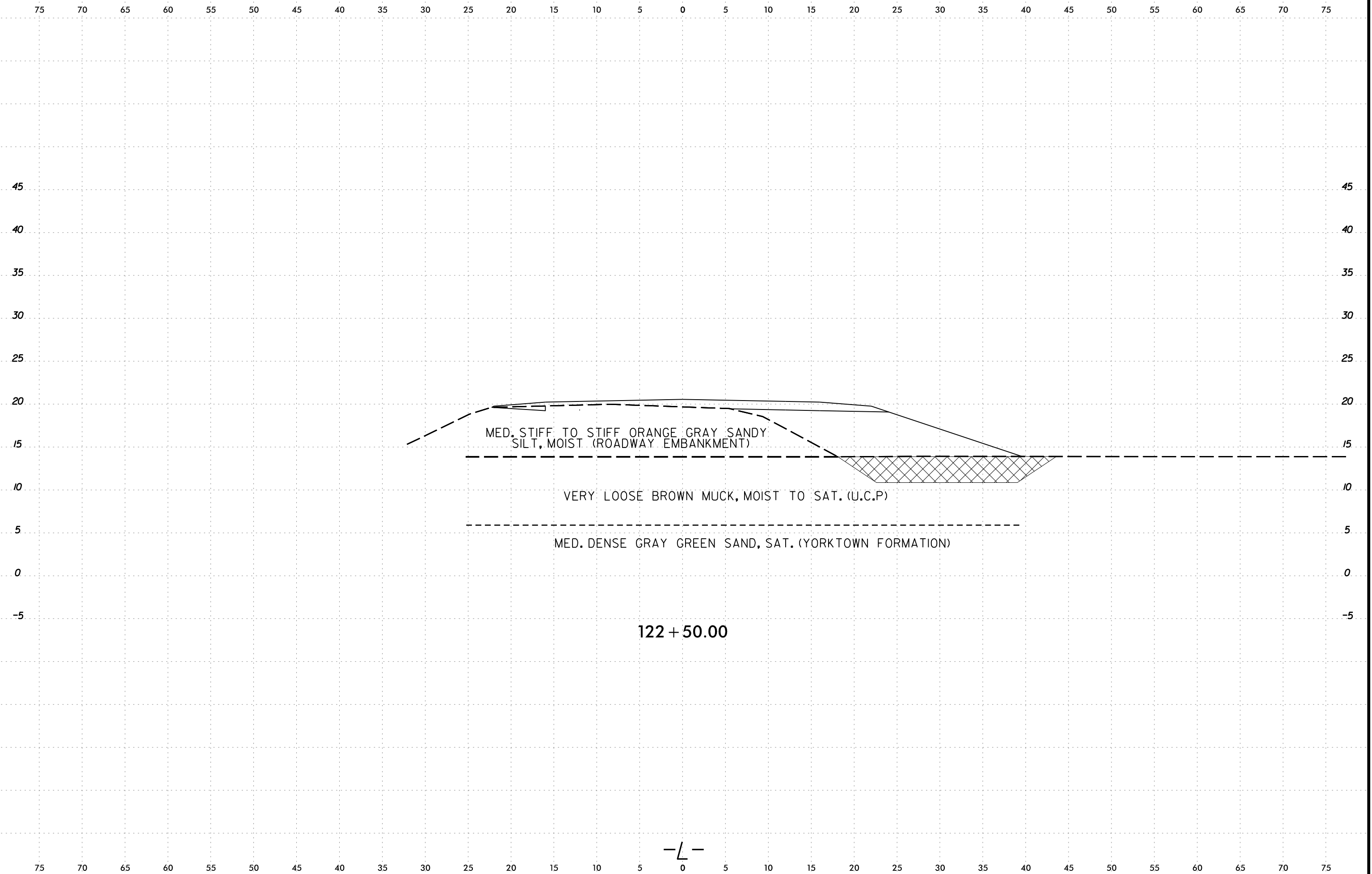
—L—

6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



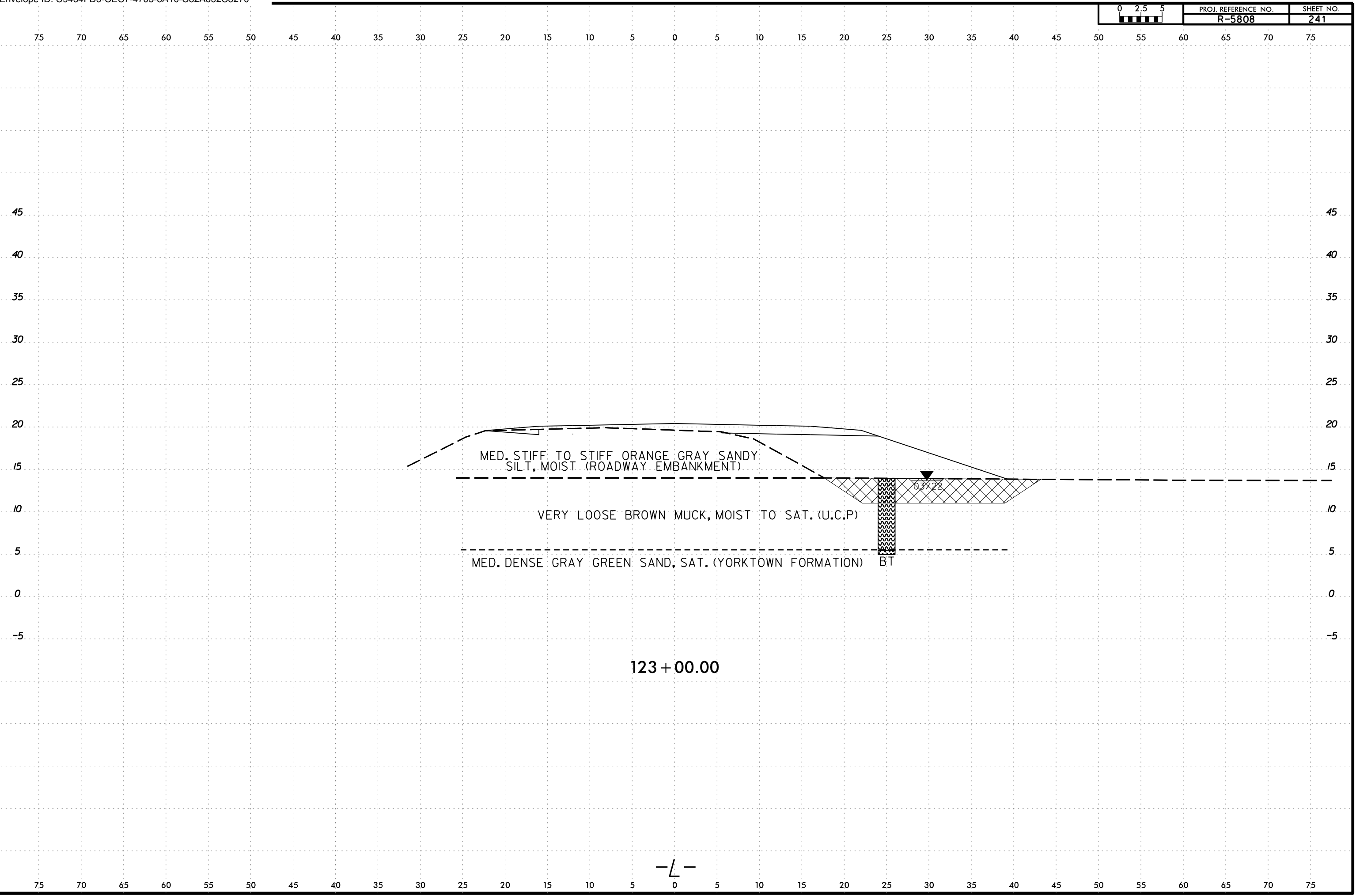
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	240

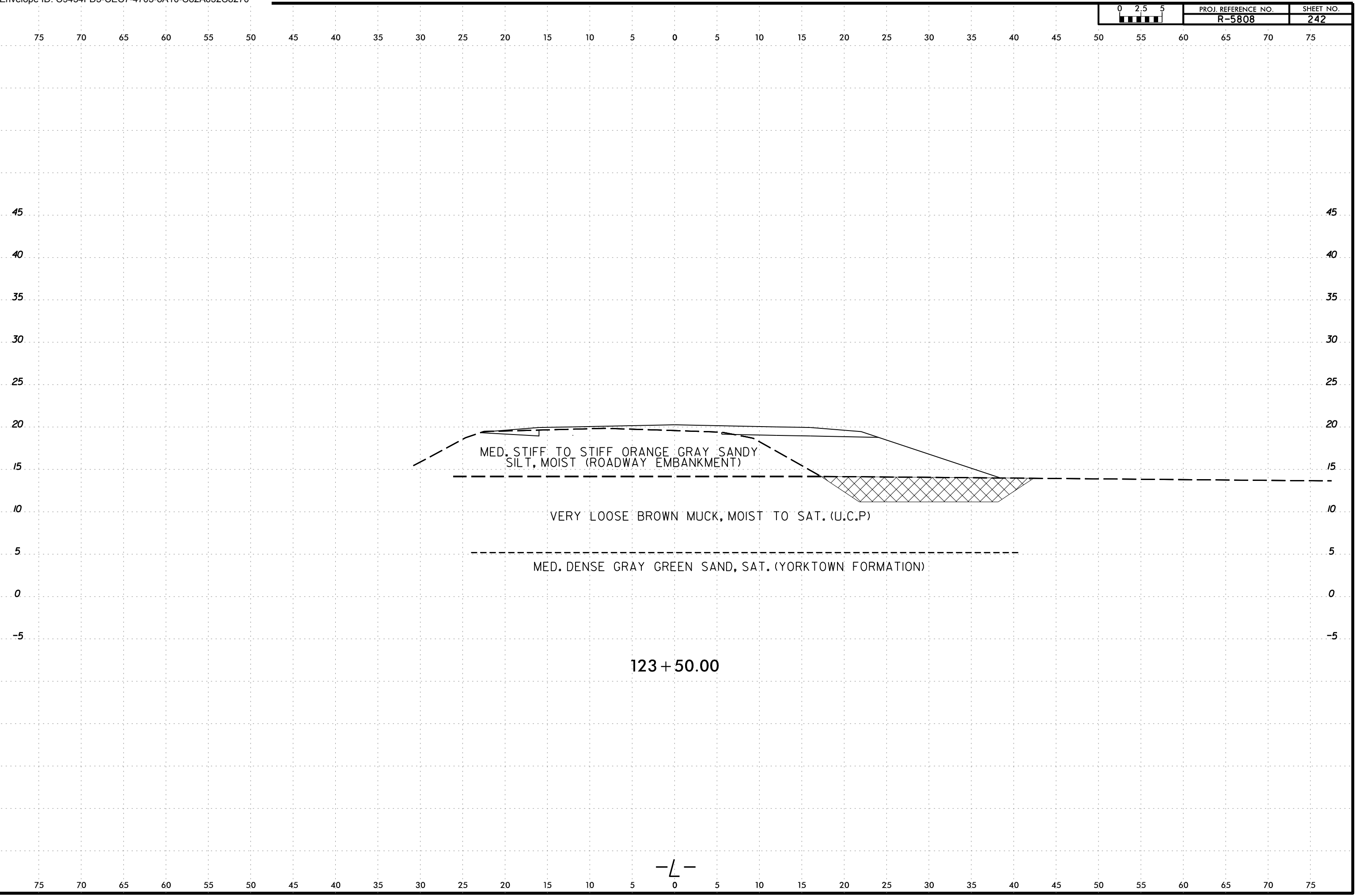




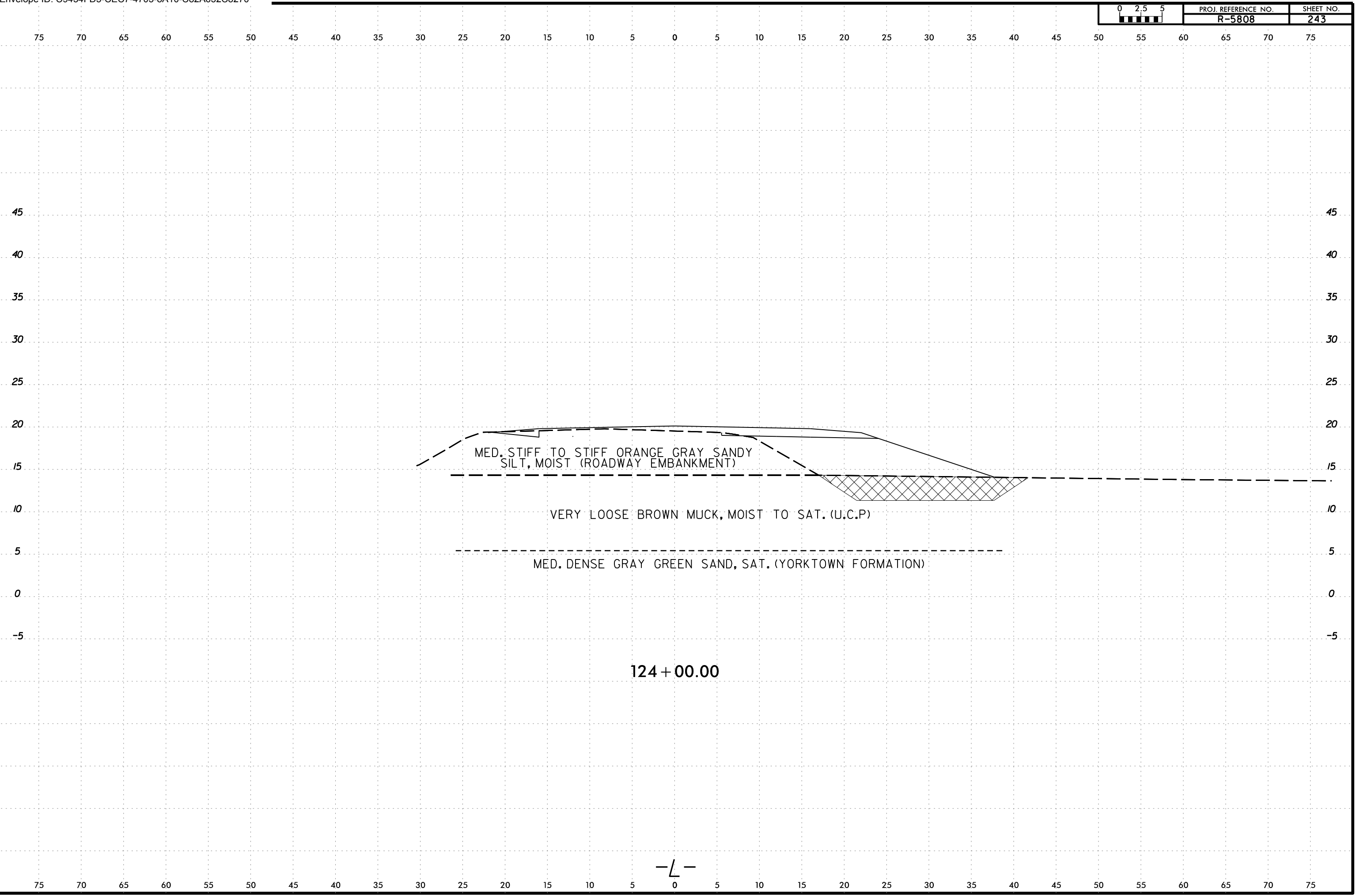
6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-STONE-18



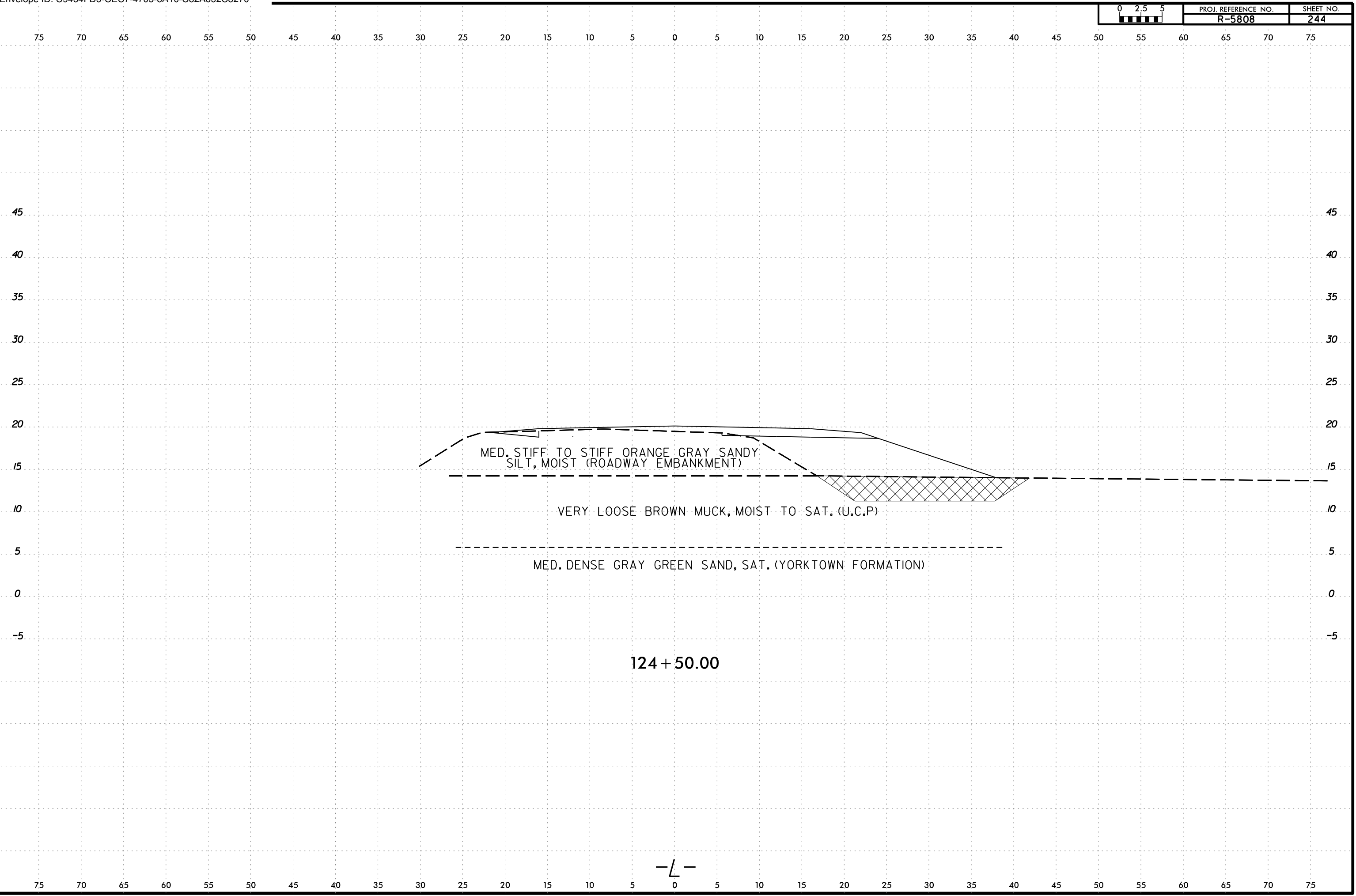
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

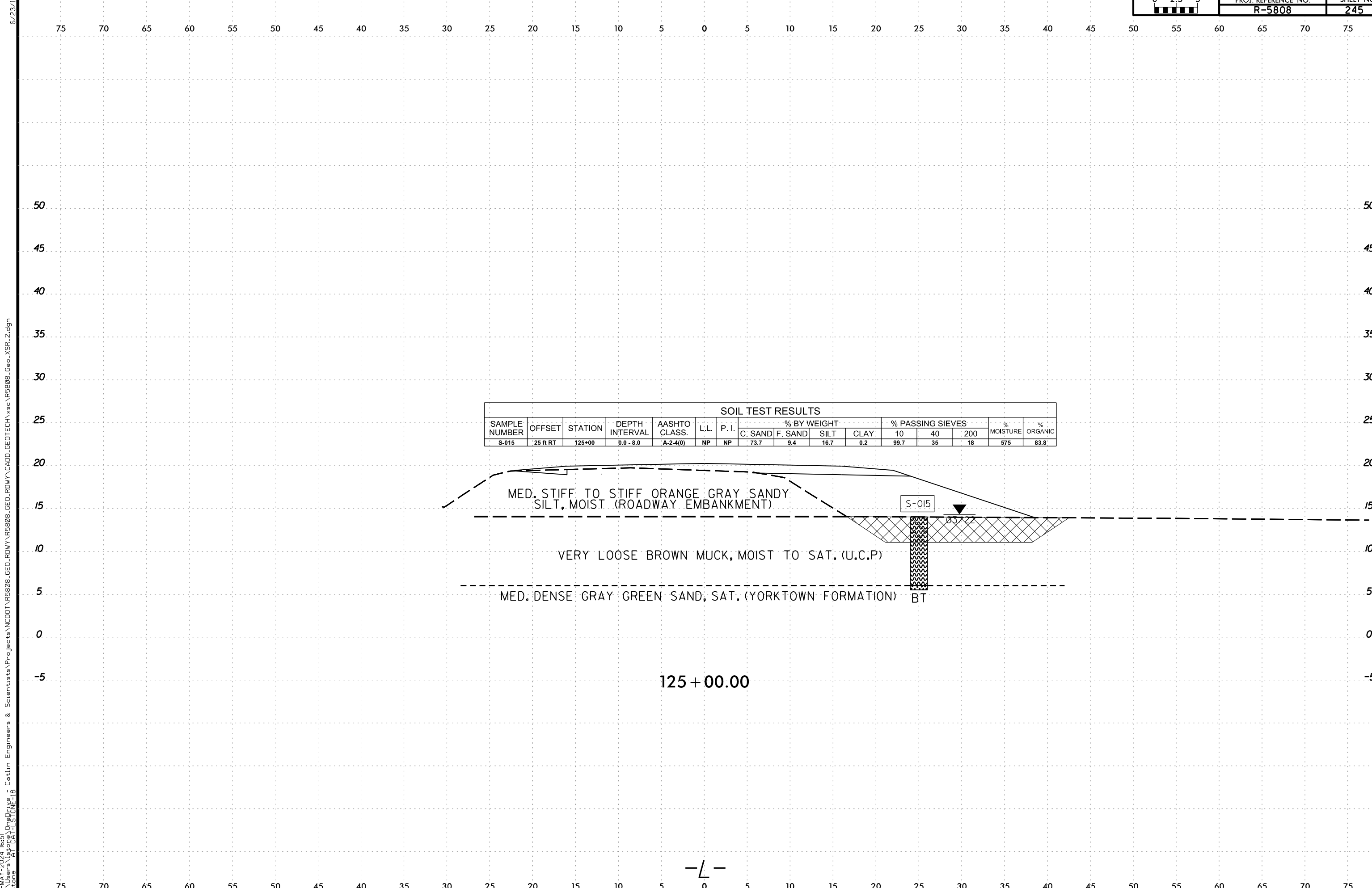


6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
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		
S-015	25 ft RT	125+00	0.0 - 8.0	A-2-4(0)	NP	NP	73.7	9.4	16.7	0.2	99.7	35	18	575	83.8

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

S-015

22

BT

125 + 00.00

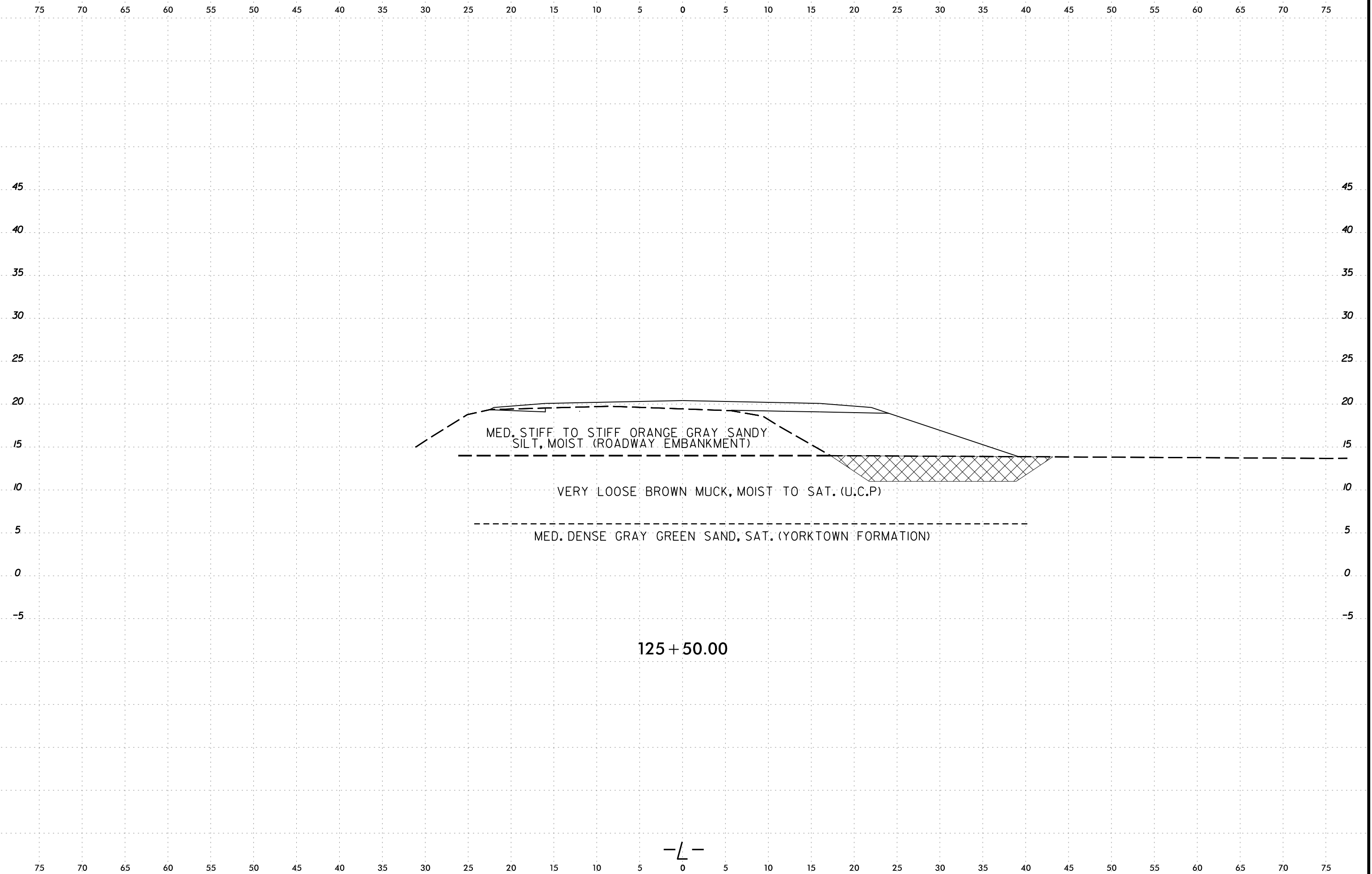
-L-

21-MAY-2024 16:51  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\RDWY\CADD\_GEO\XSR\_2.dgn  
 jstone AT CAT-STONE-18

6/23/16

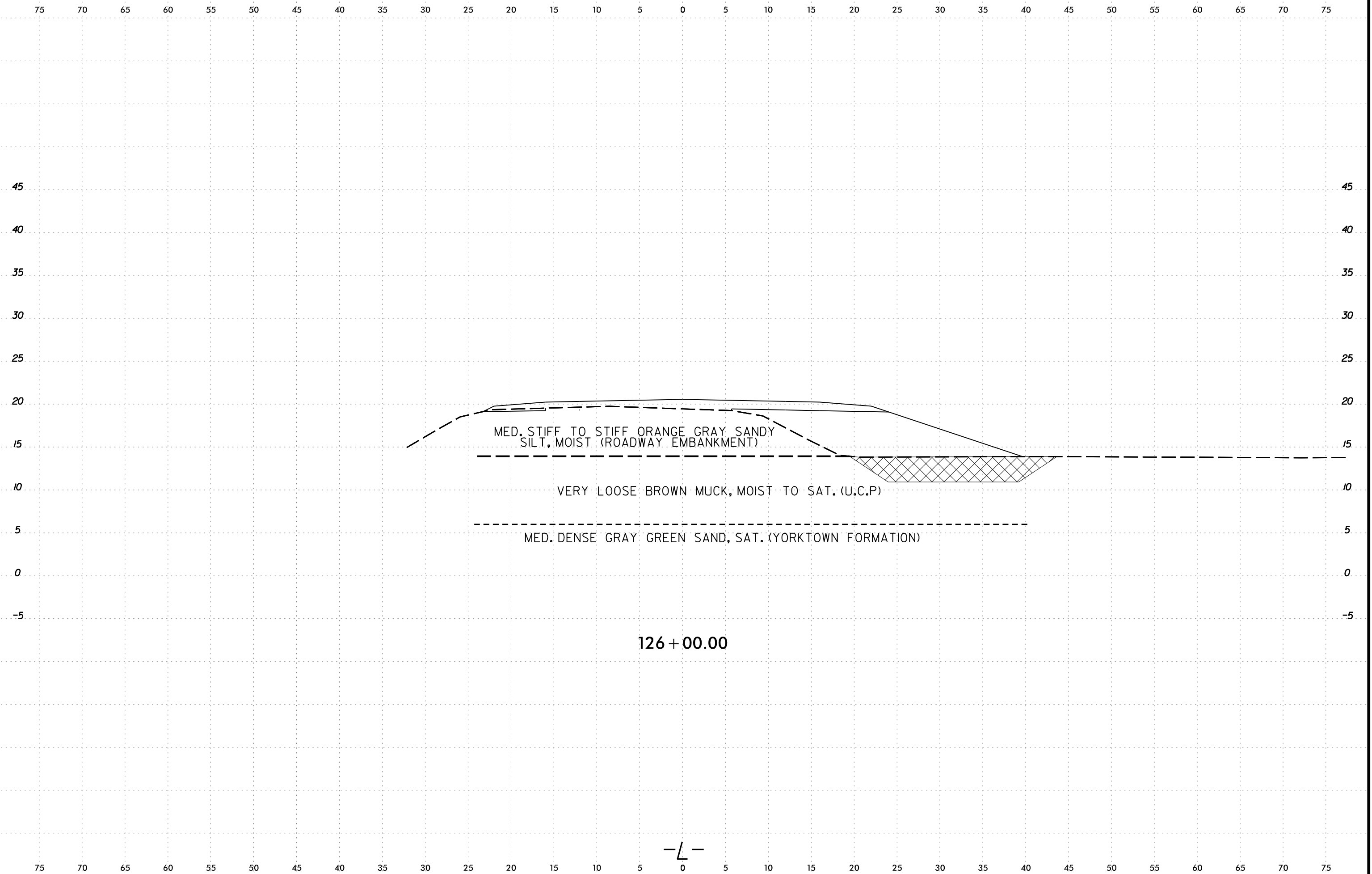
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	246

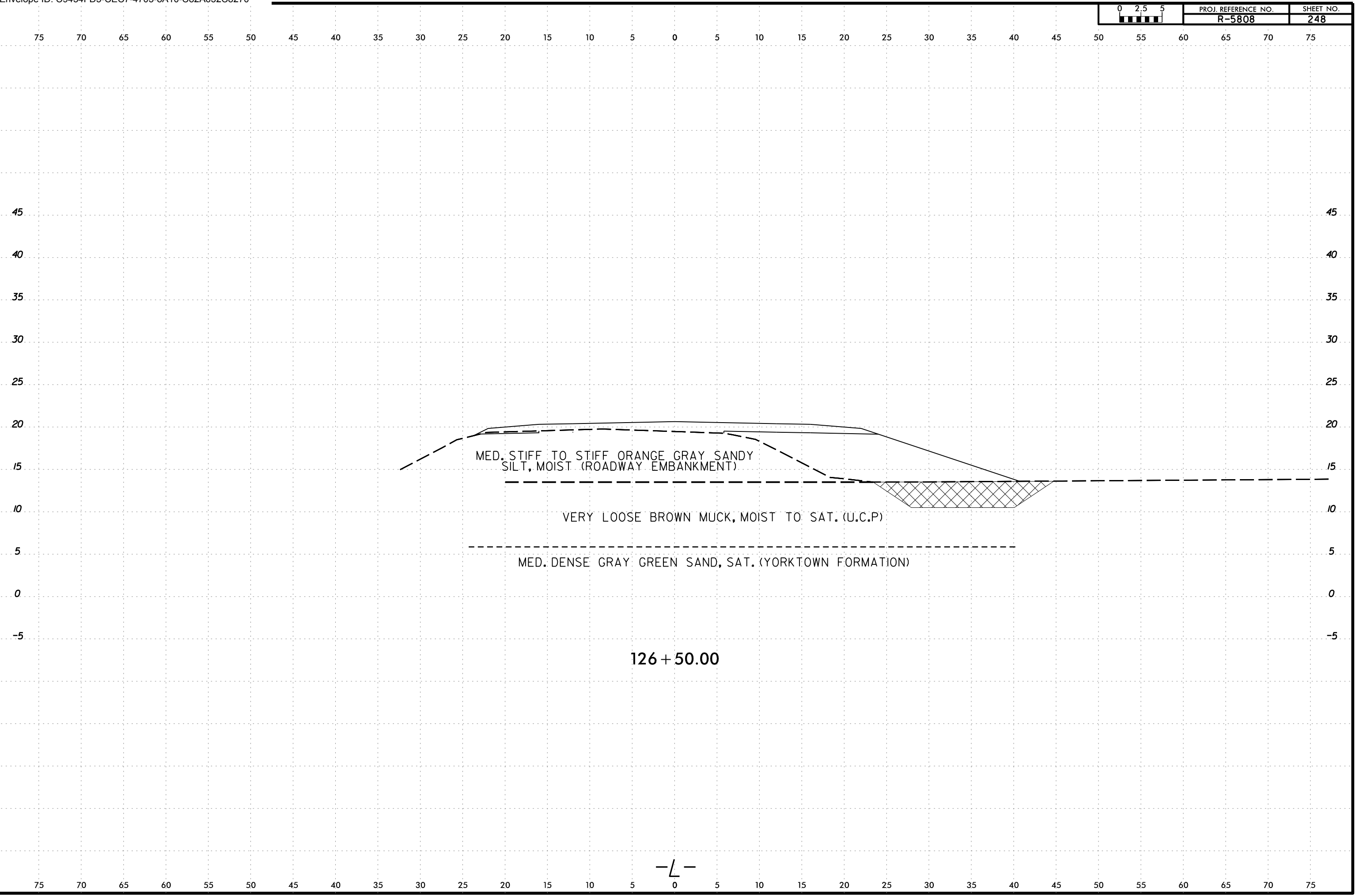


6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	247

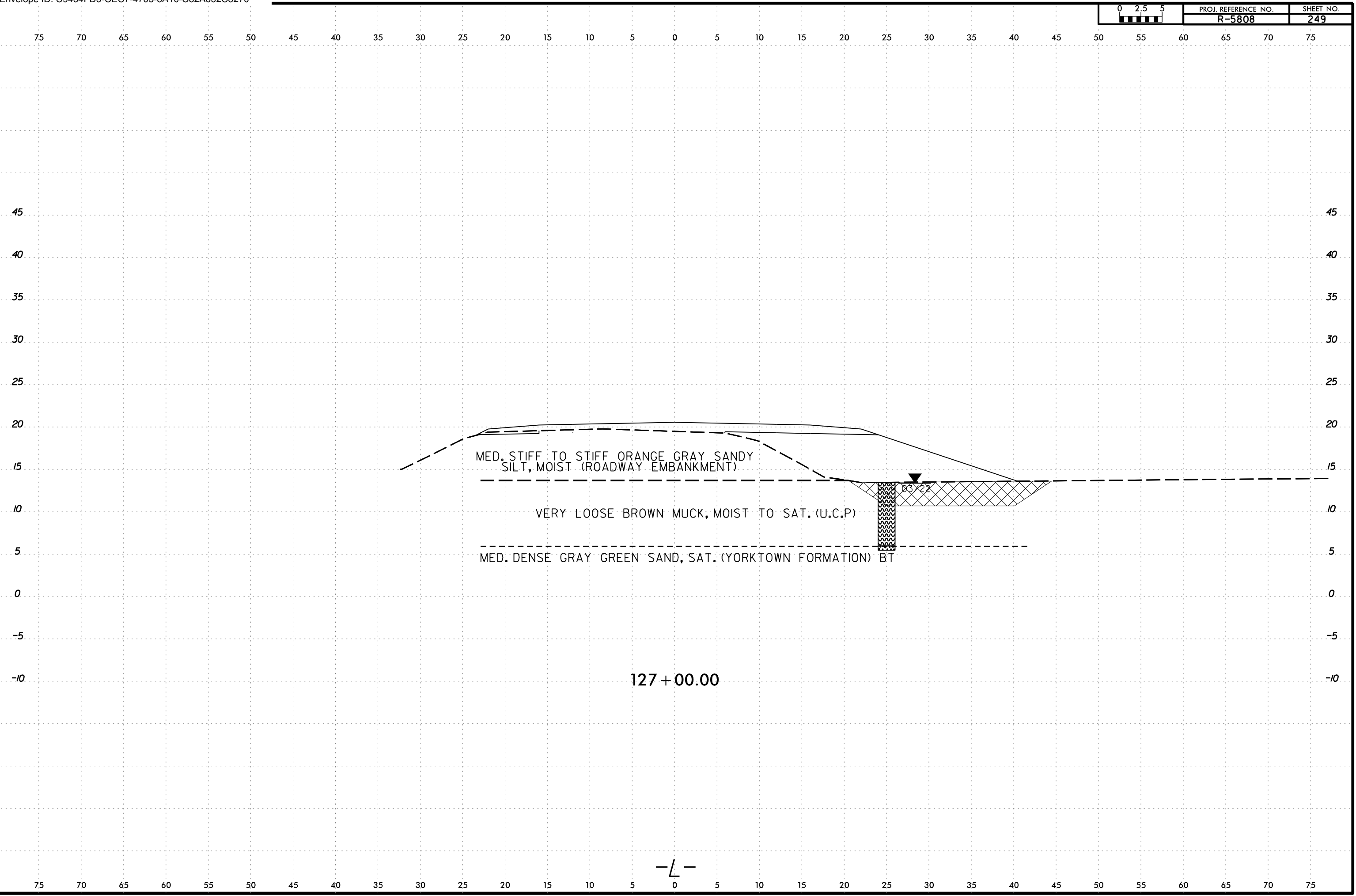


6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



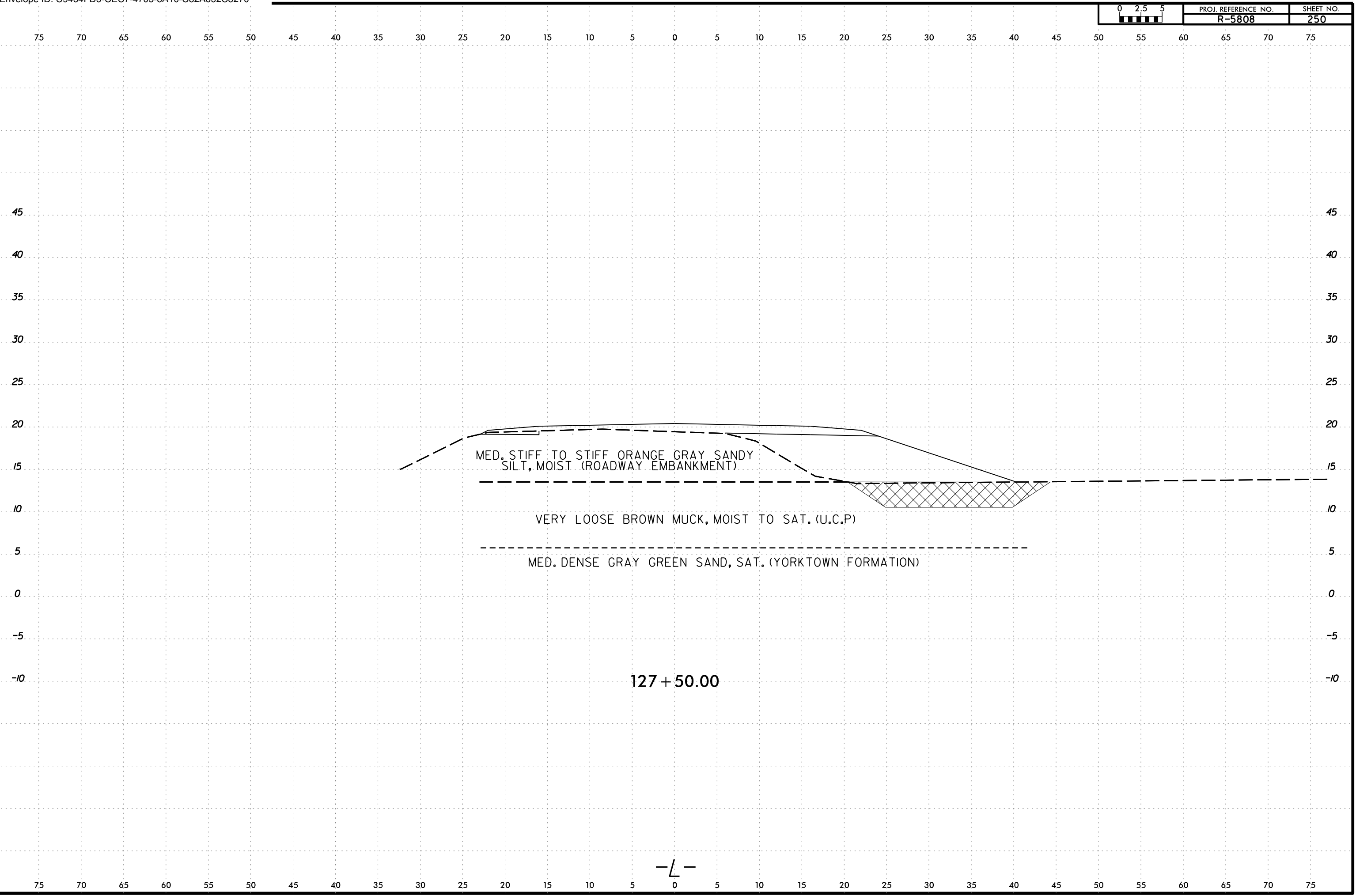


6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



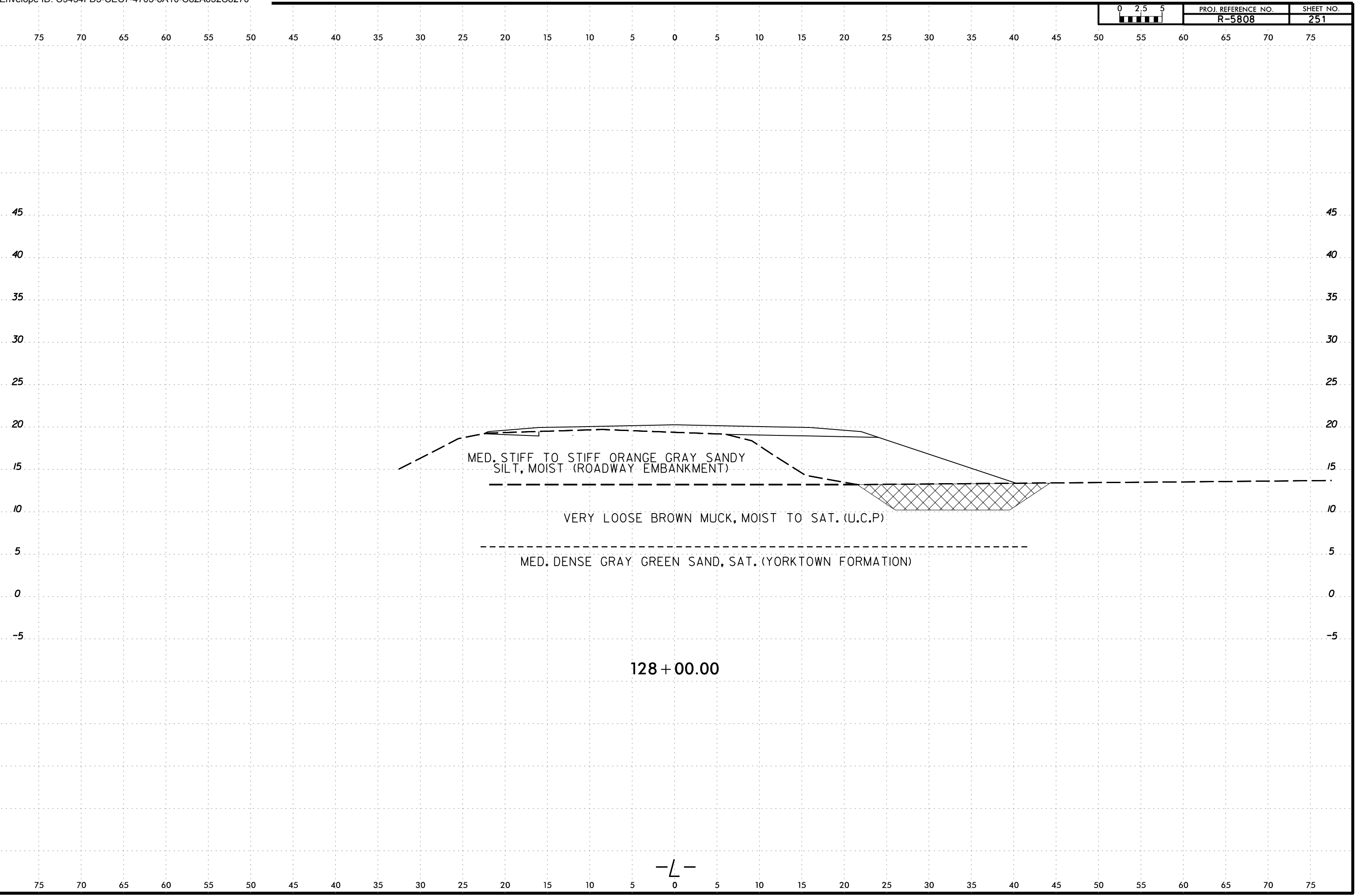
-L-

6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

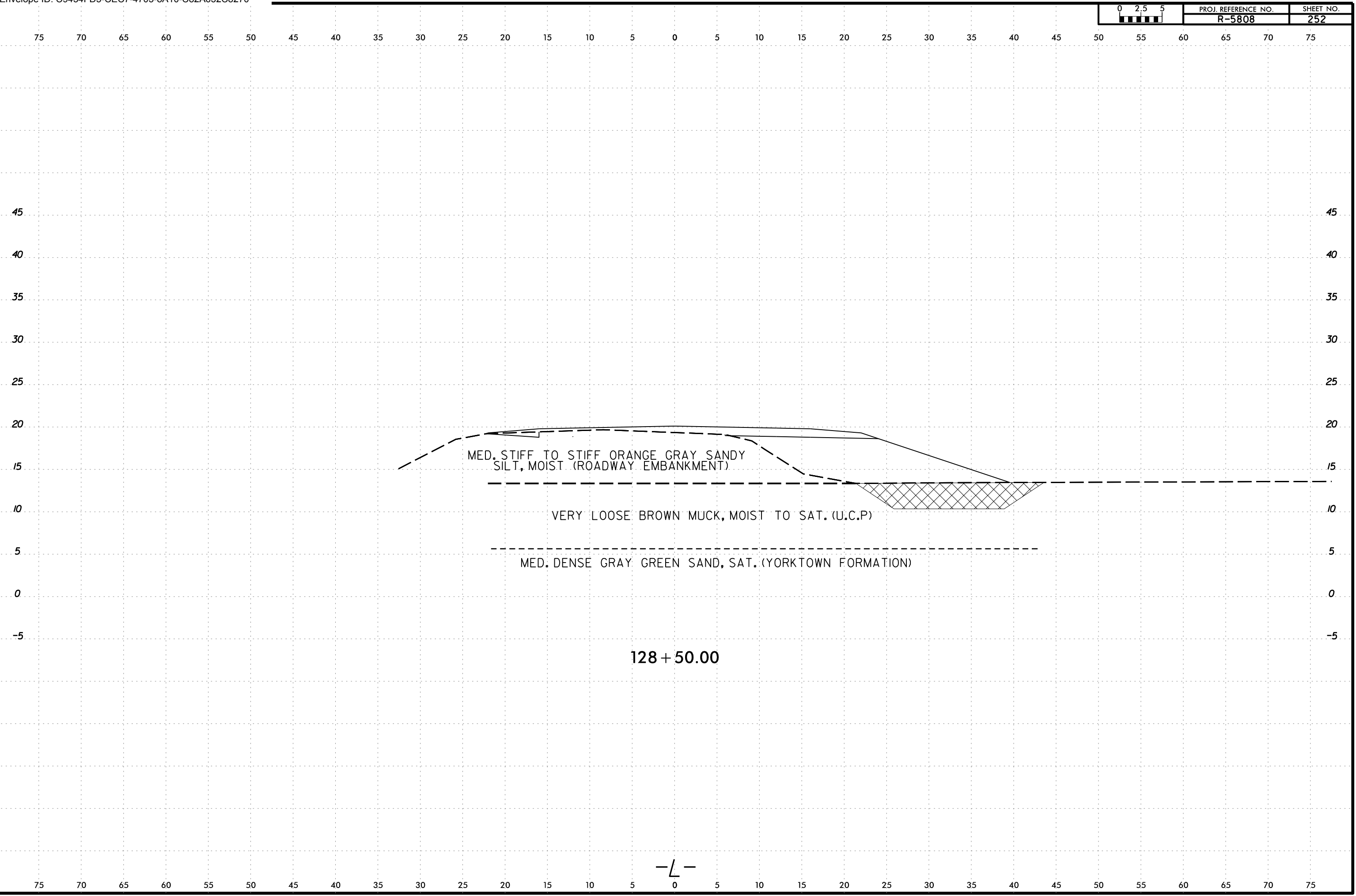


-L-

6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

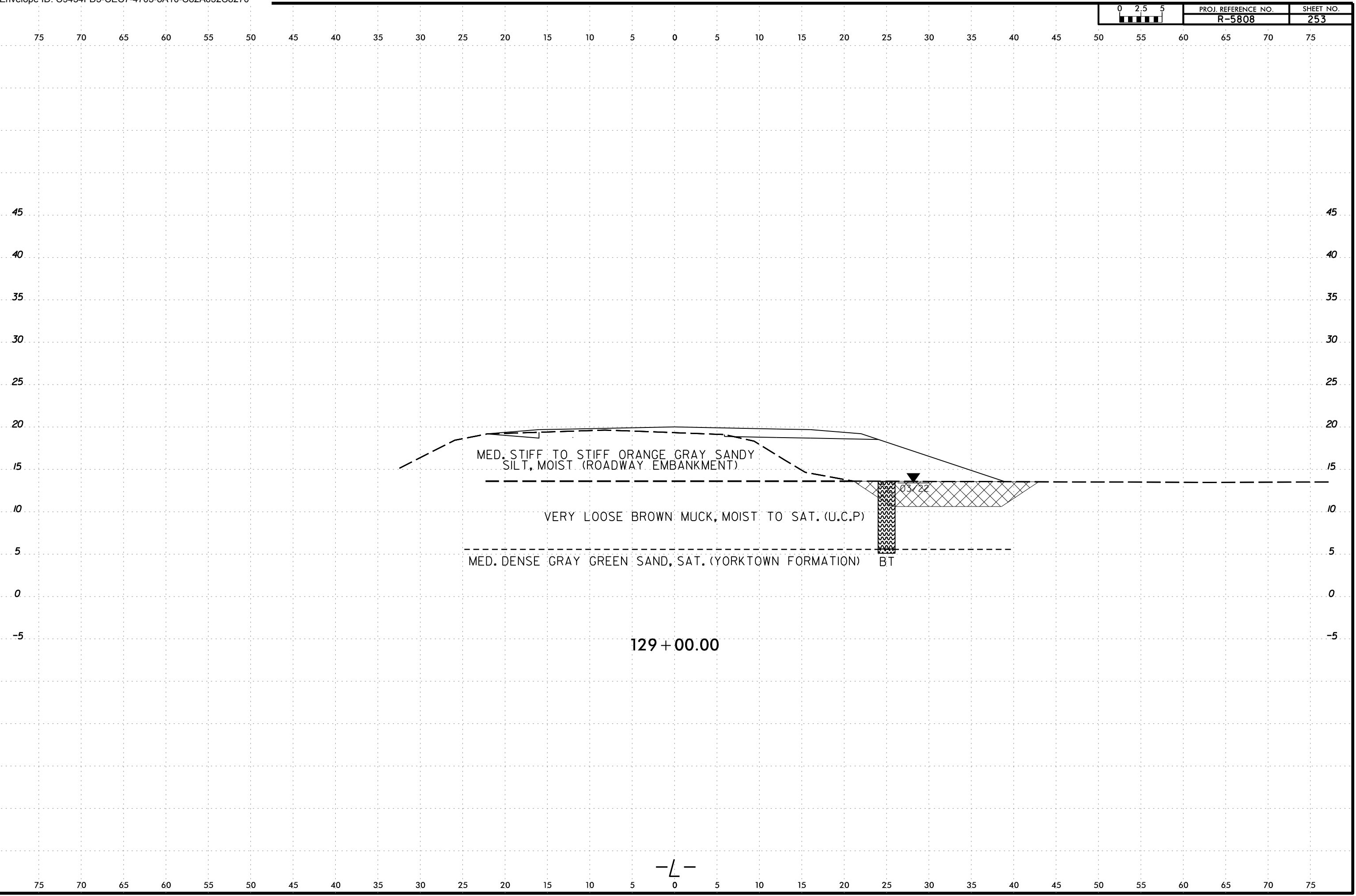


6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn

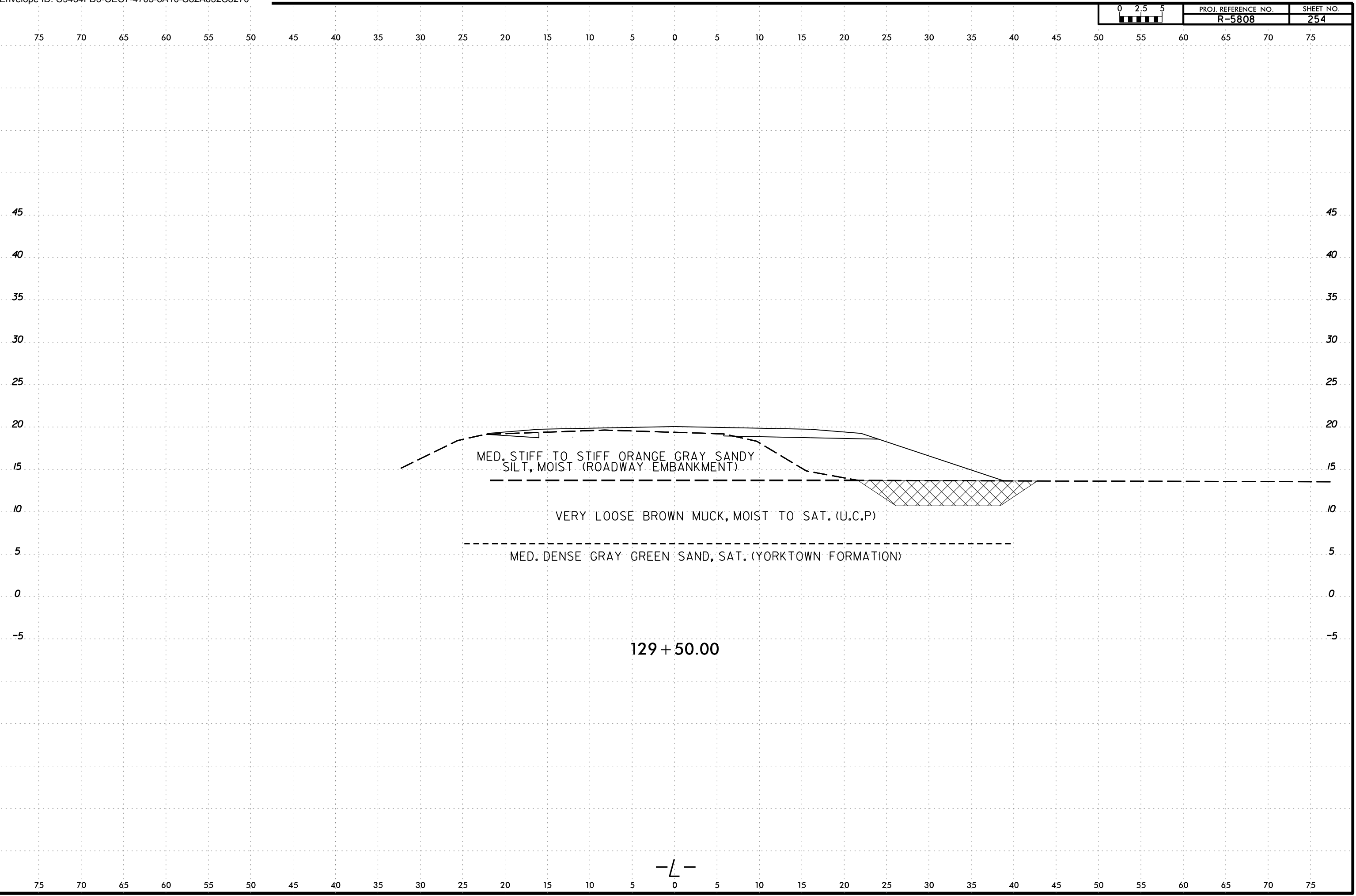


-L-

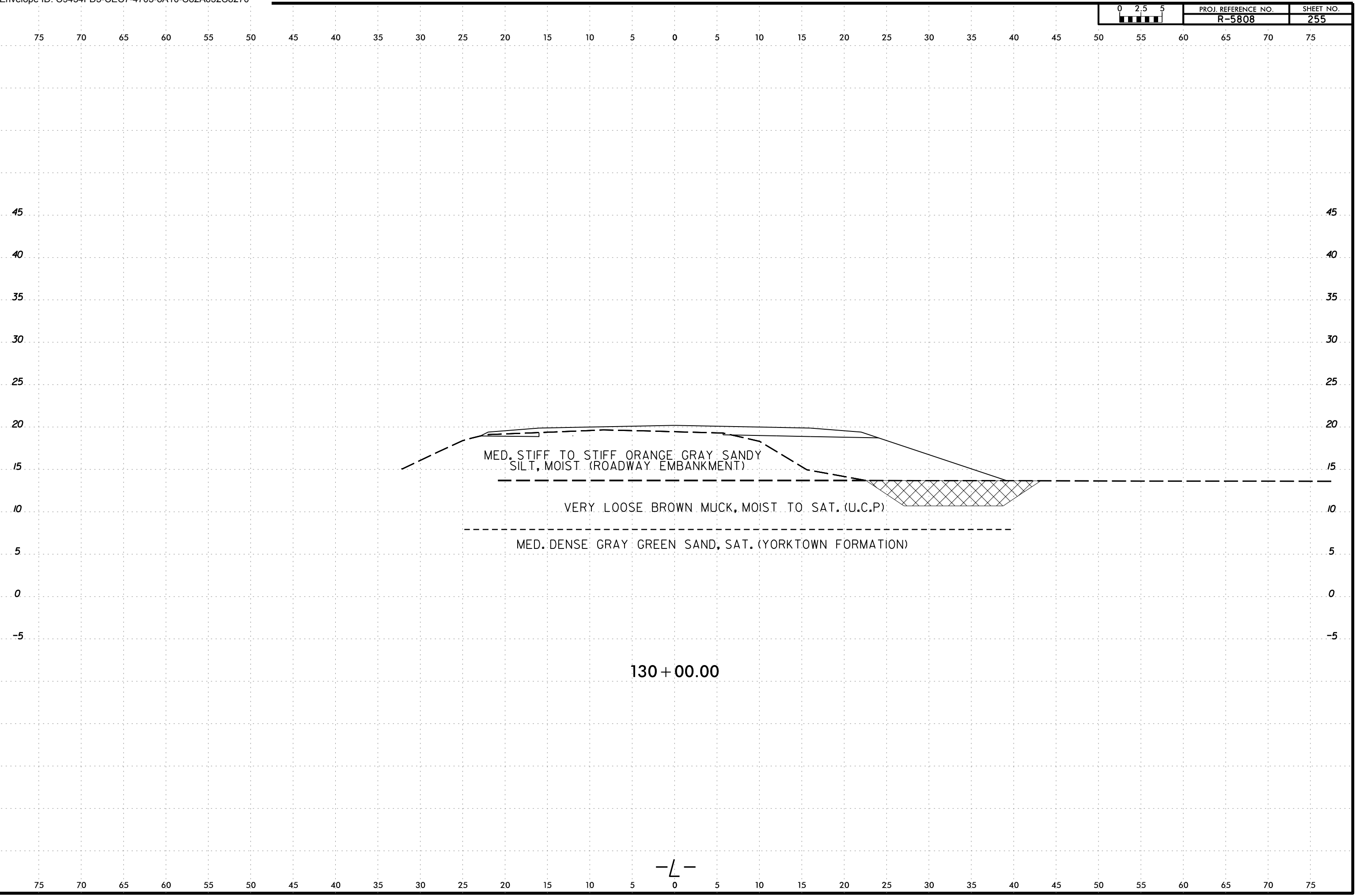
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\VR5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-STONE-18



6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

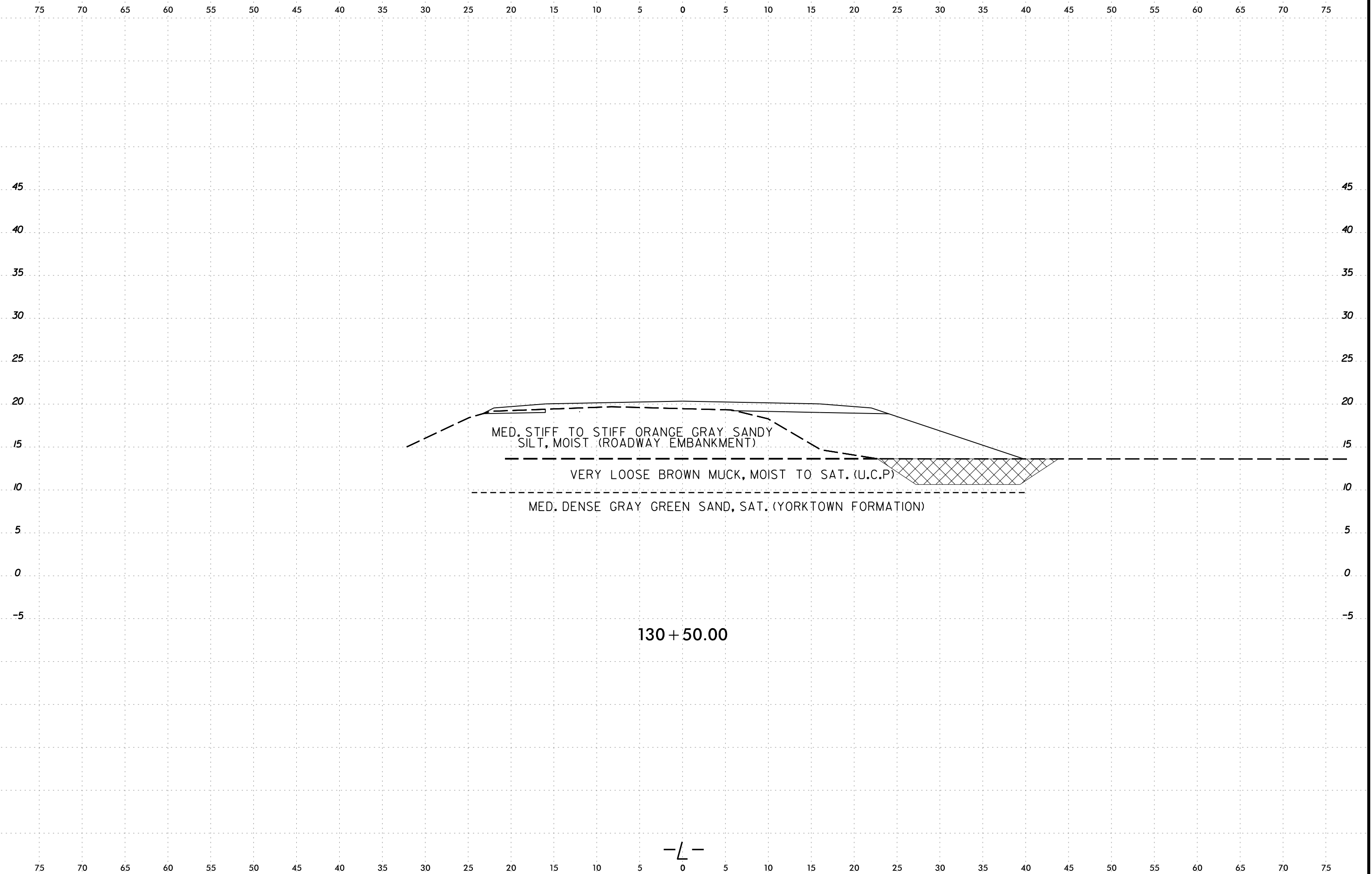


6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



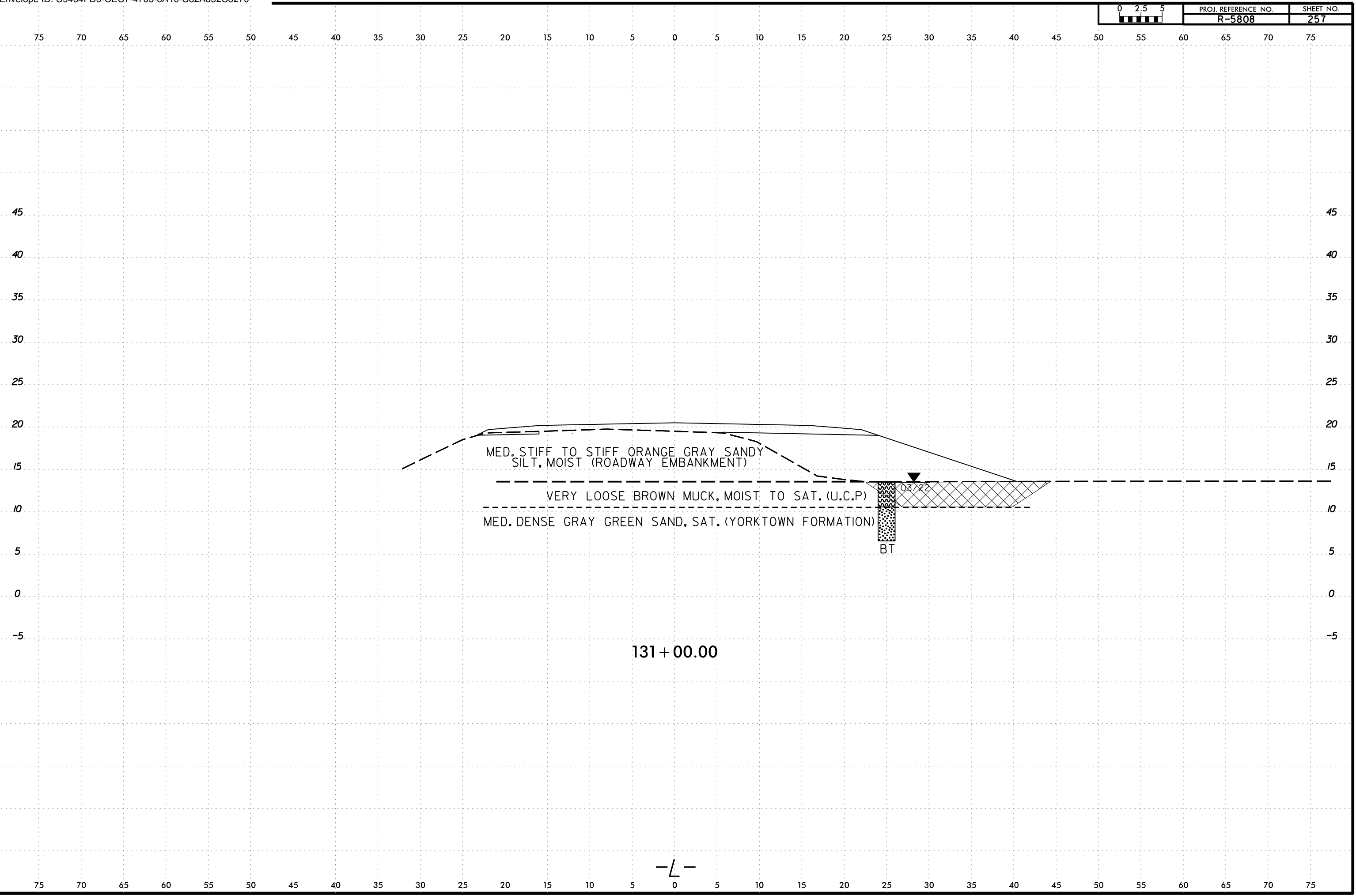
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	256



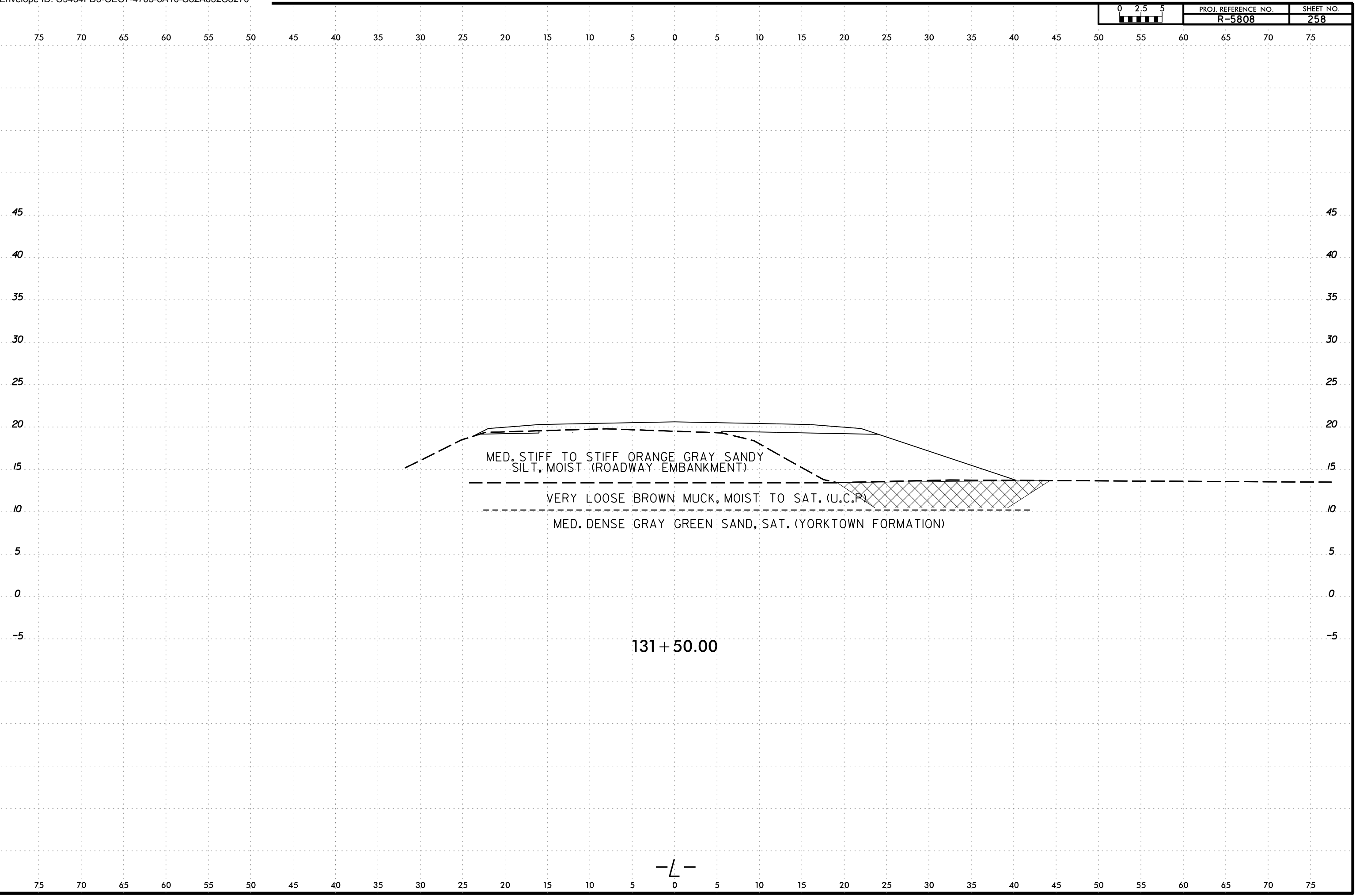


6/23/16  
21-MAY-2024 16:51  
C:\Users\lstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
lstone  
AT CAT-1 STONE-18

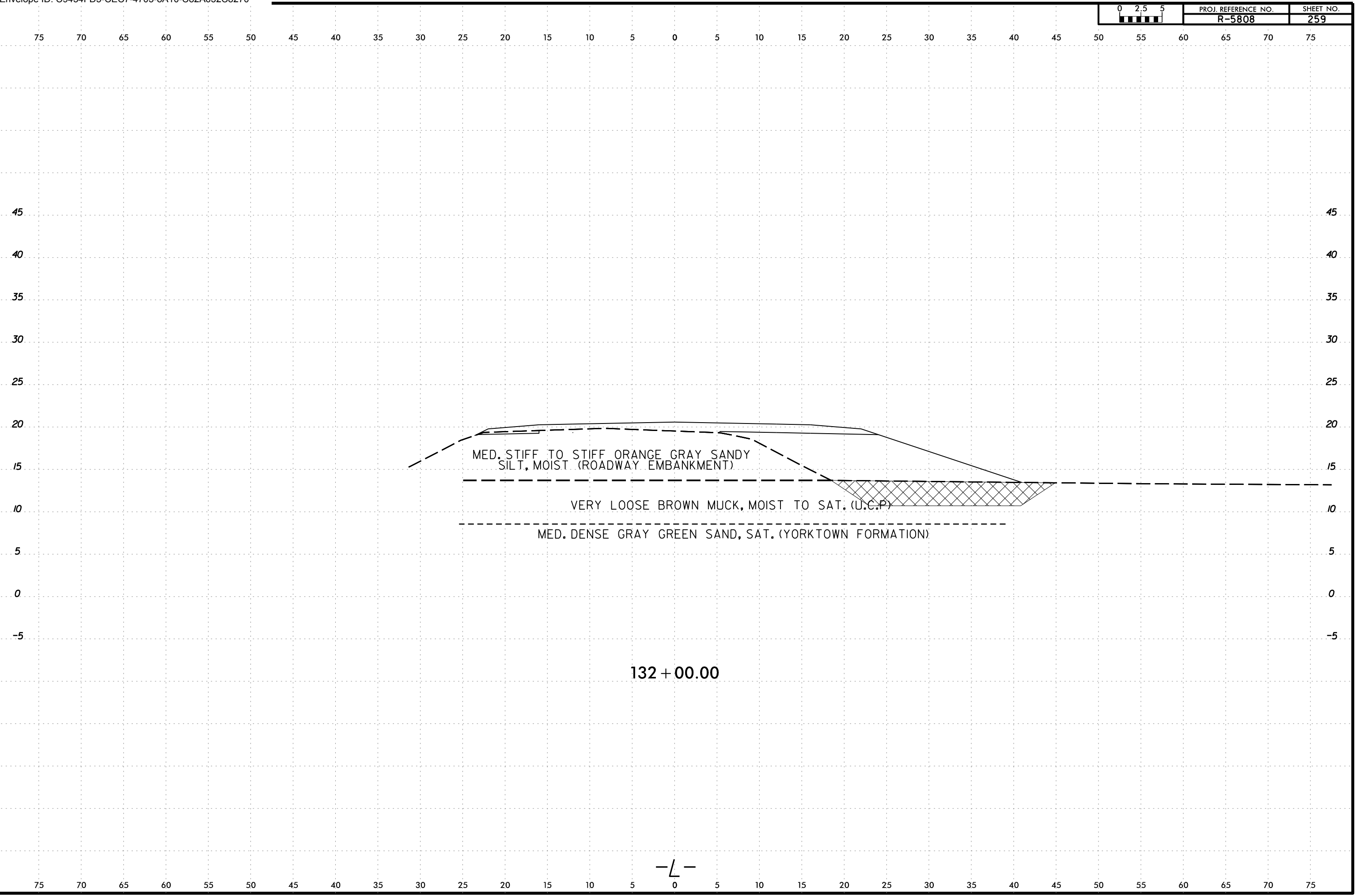


-L-

6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 45

40 40

35 35

30 30

25 25

20 20

15 15

10 10

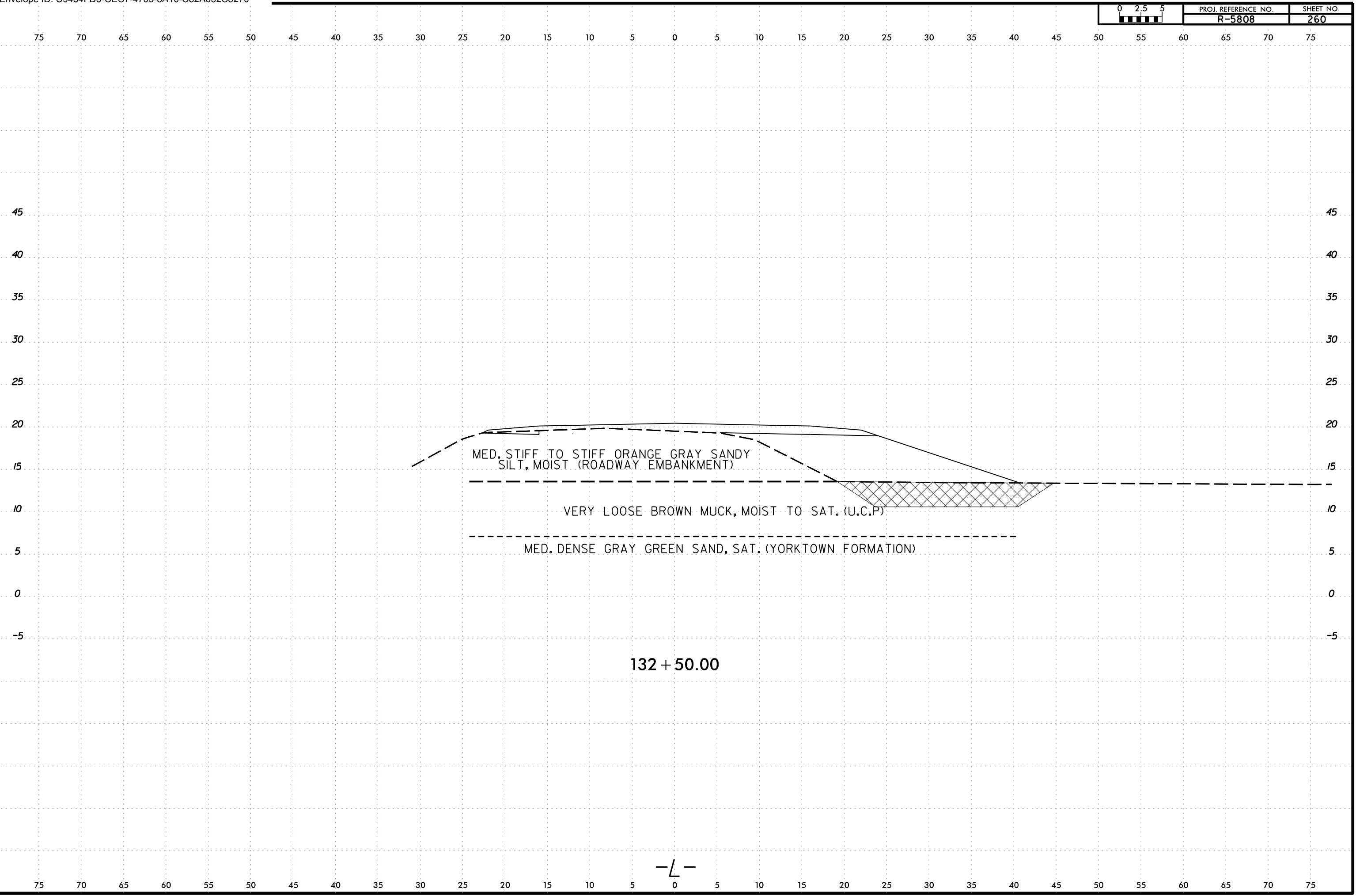
5 5

0 0

-5 -5

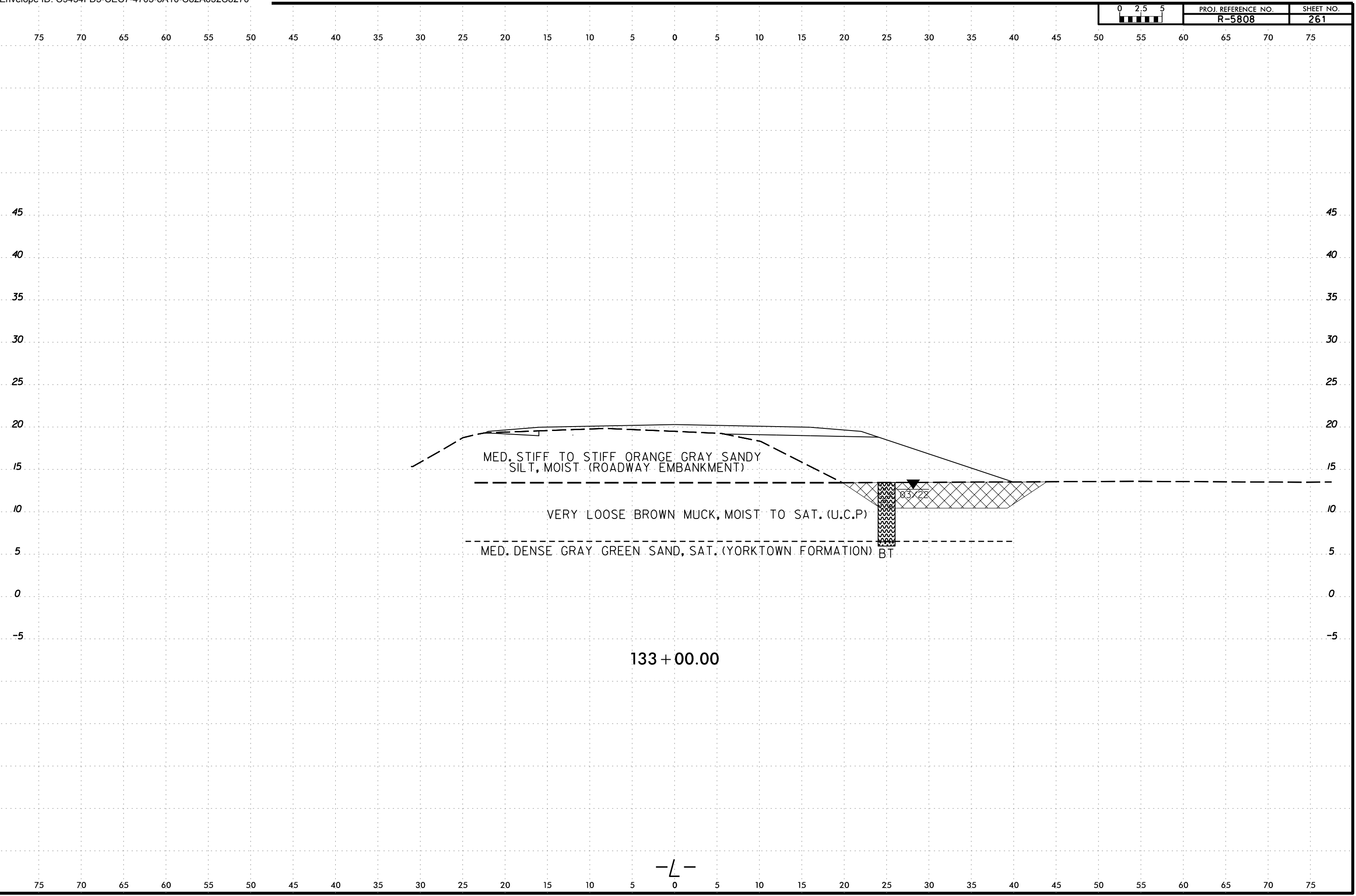
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\1st\OneDrive - Cotlin Engineers & Scientists\Projects\NCDOT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

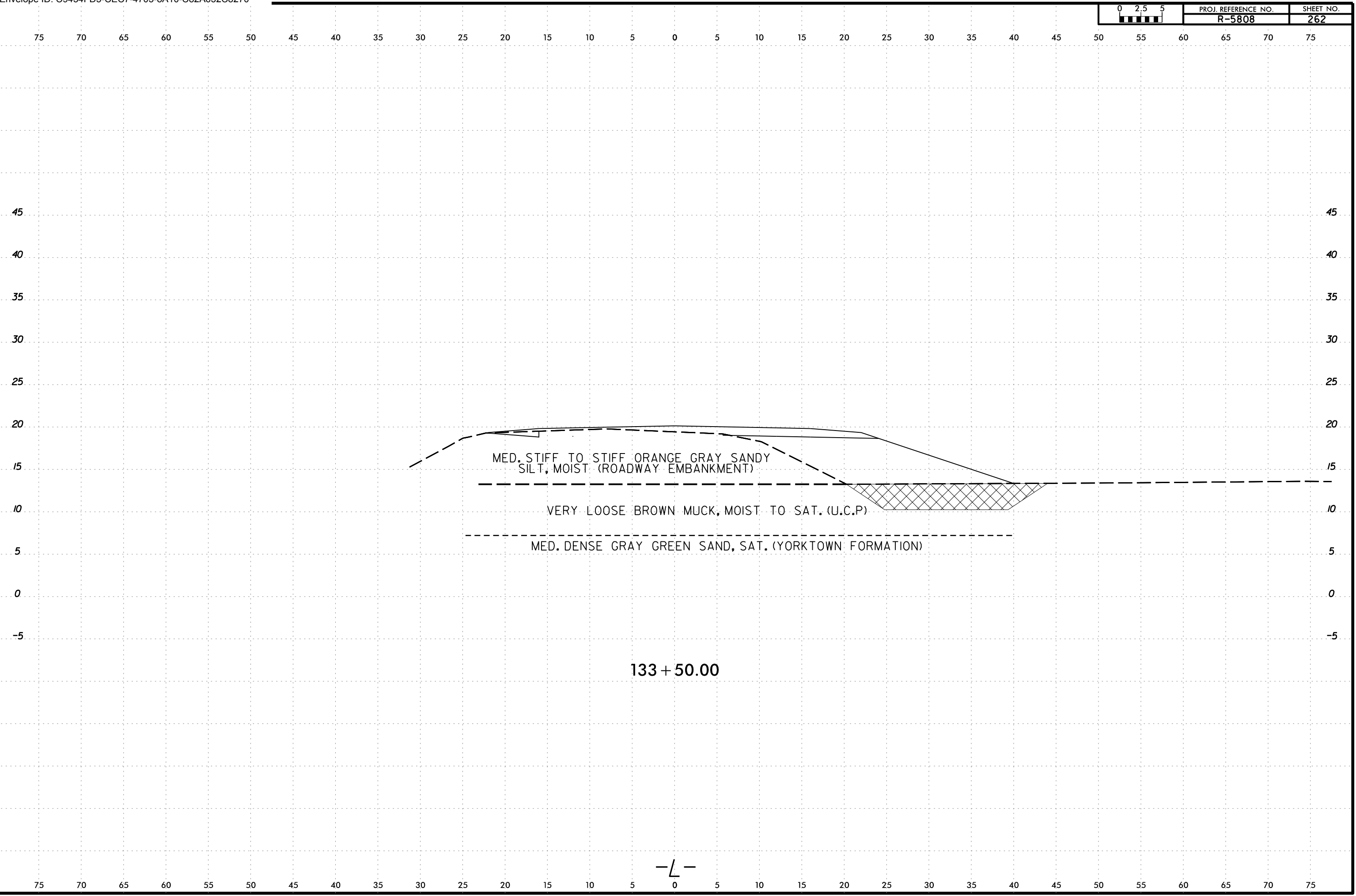


-L-

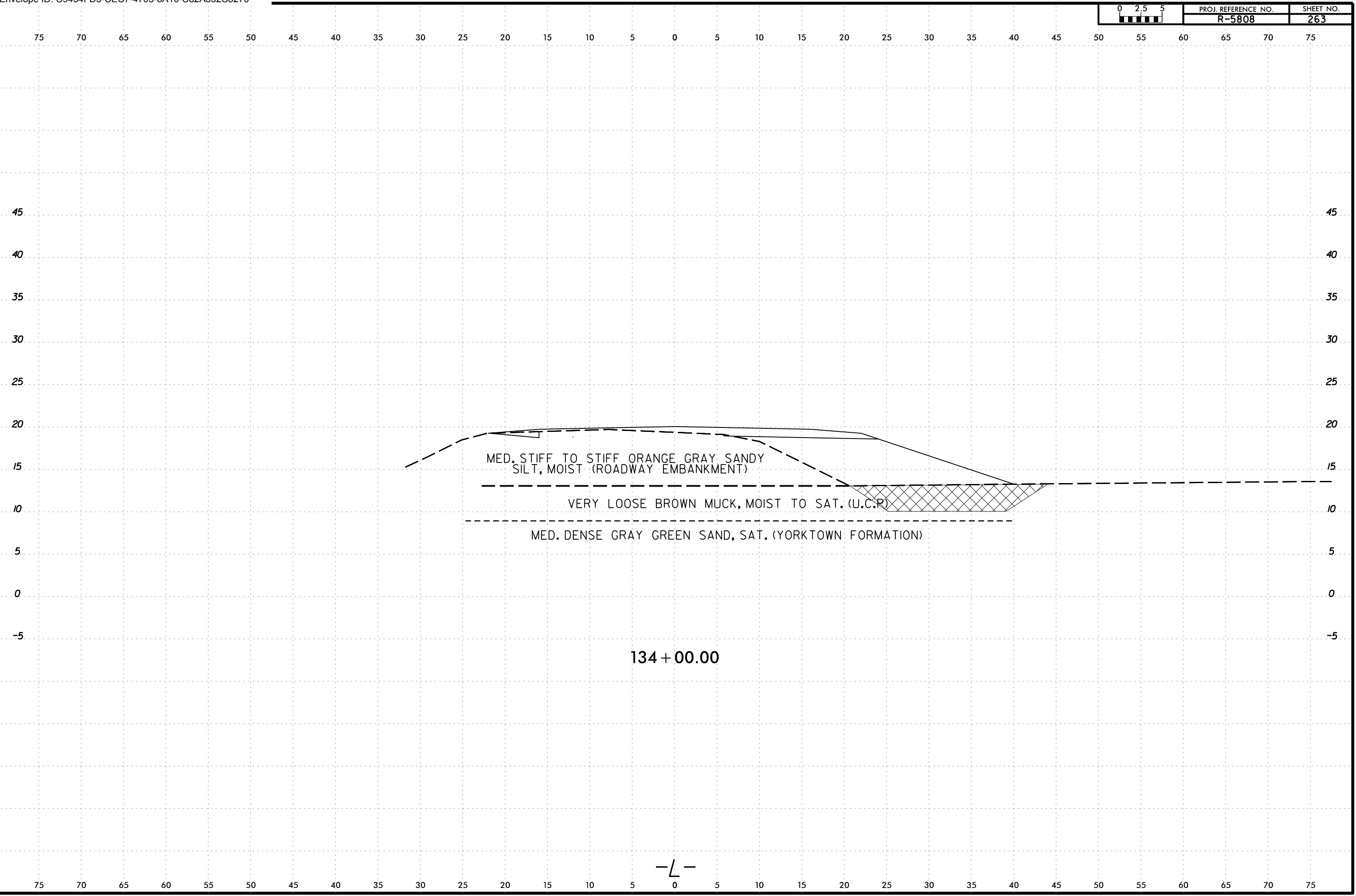
6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



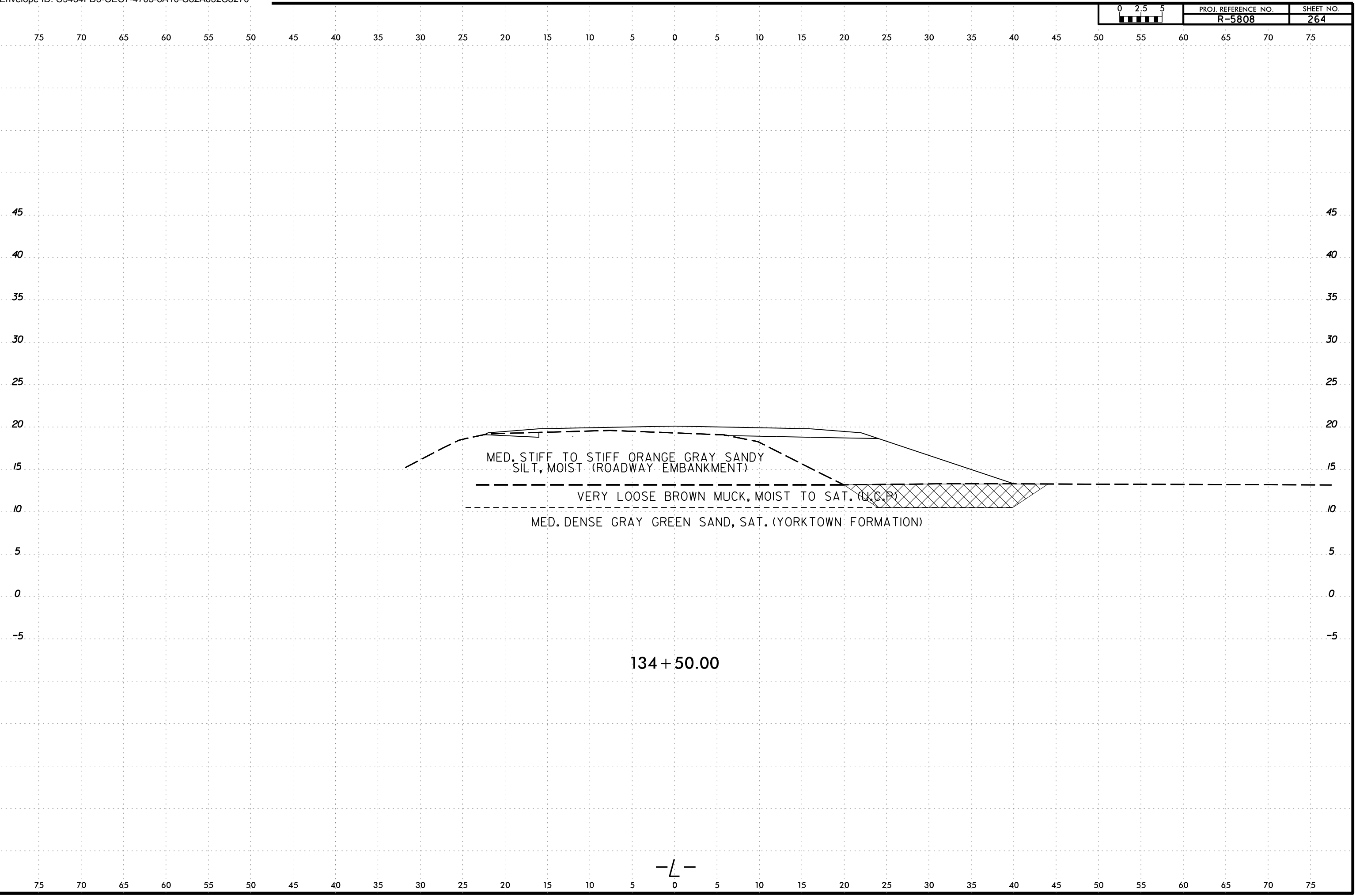
6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



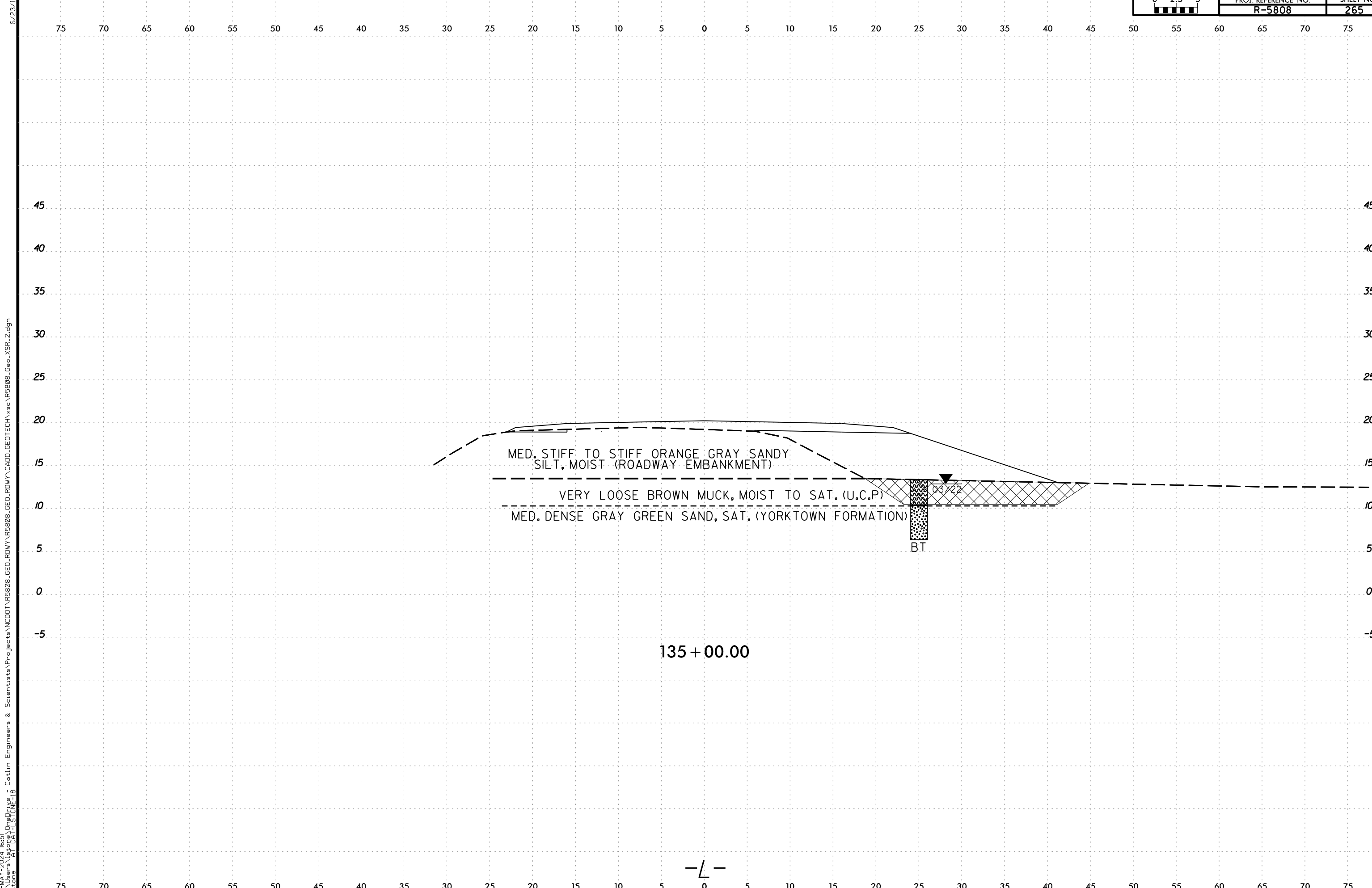
6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\1st\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18







MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

BT

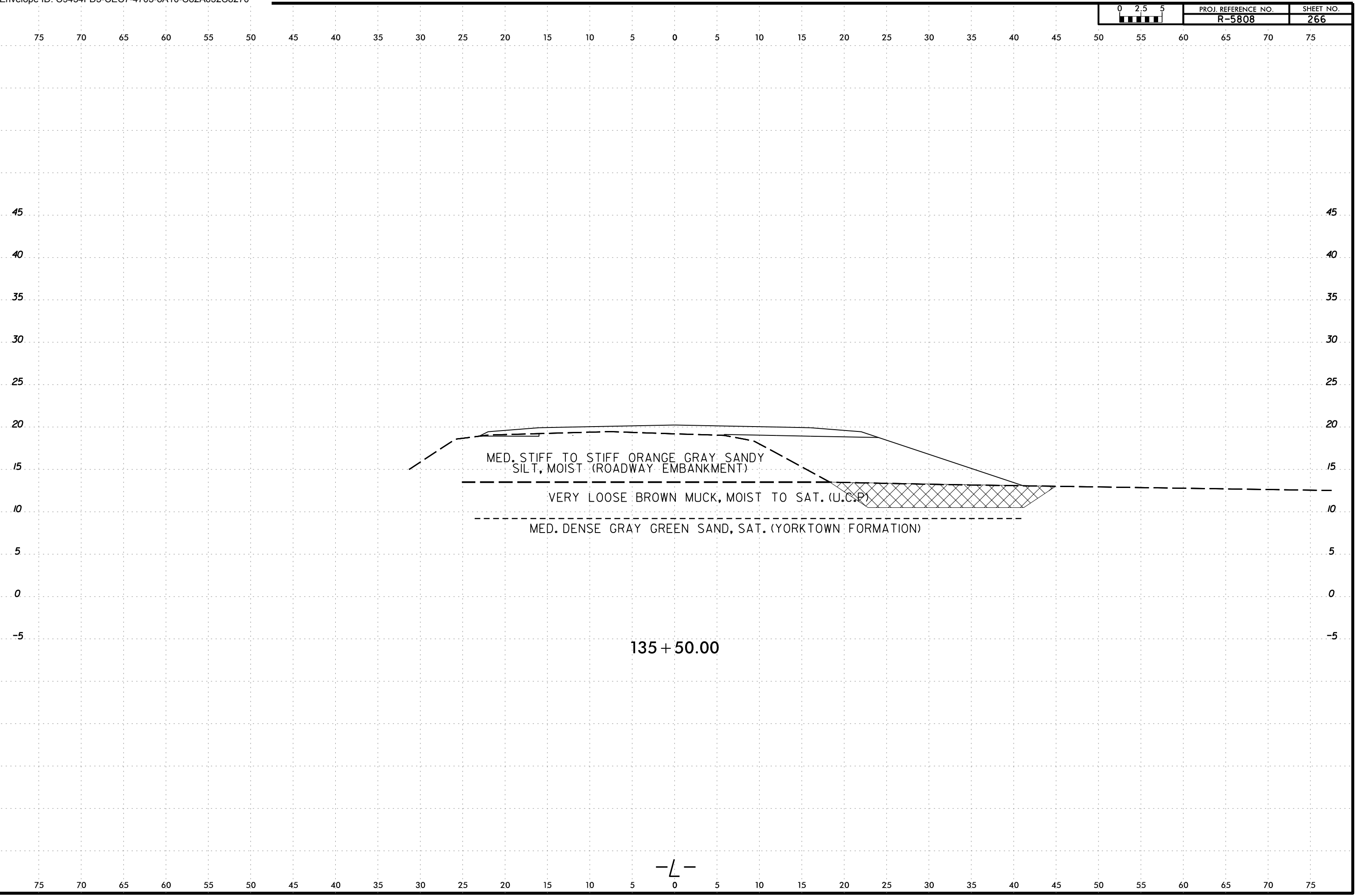
03/22

135 + 00.00

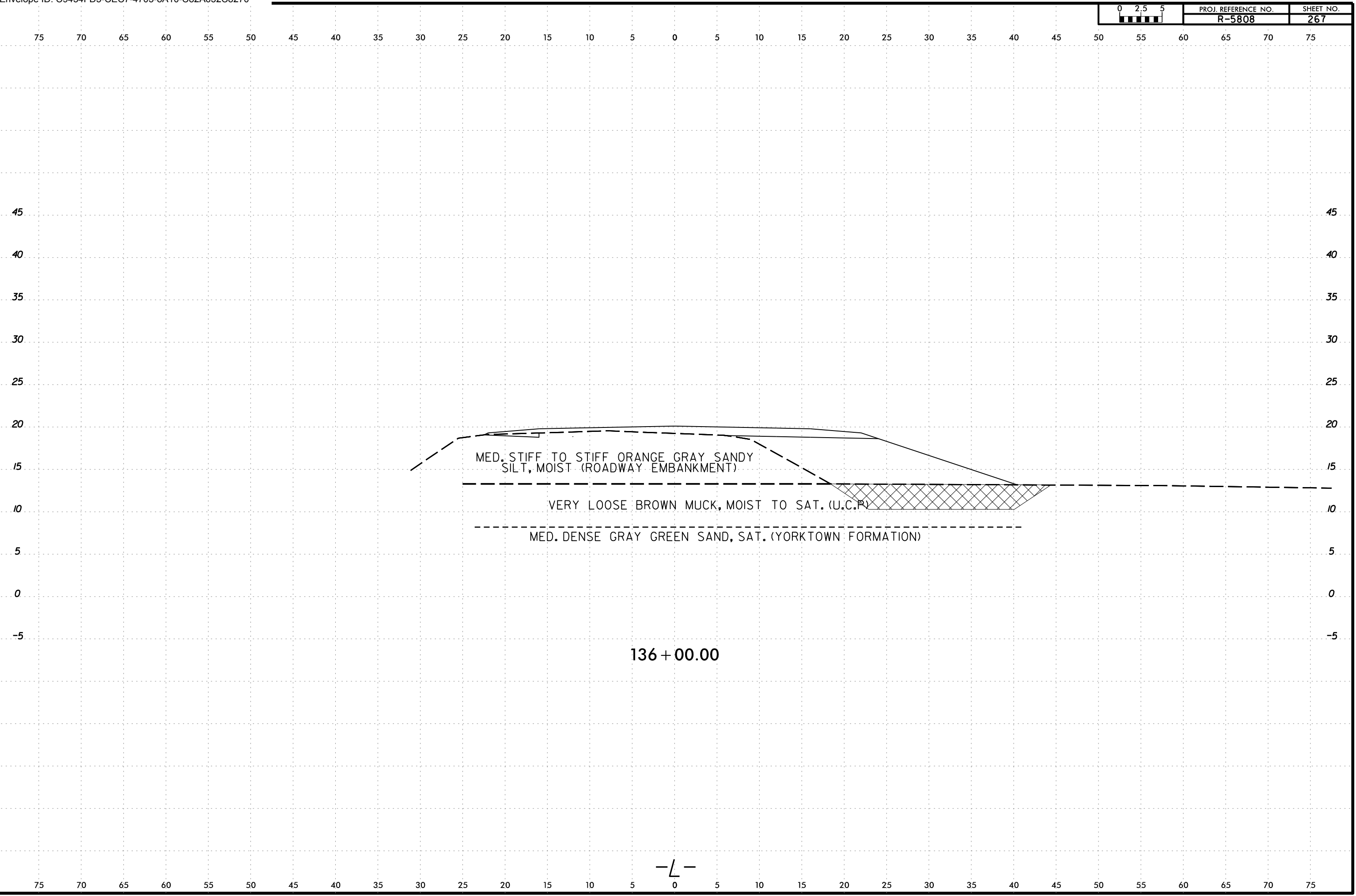
-L-

21-MAY-2024 16:51  
C:\Users\lstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
lstone  
AT CAT-1 STONE-18

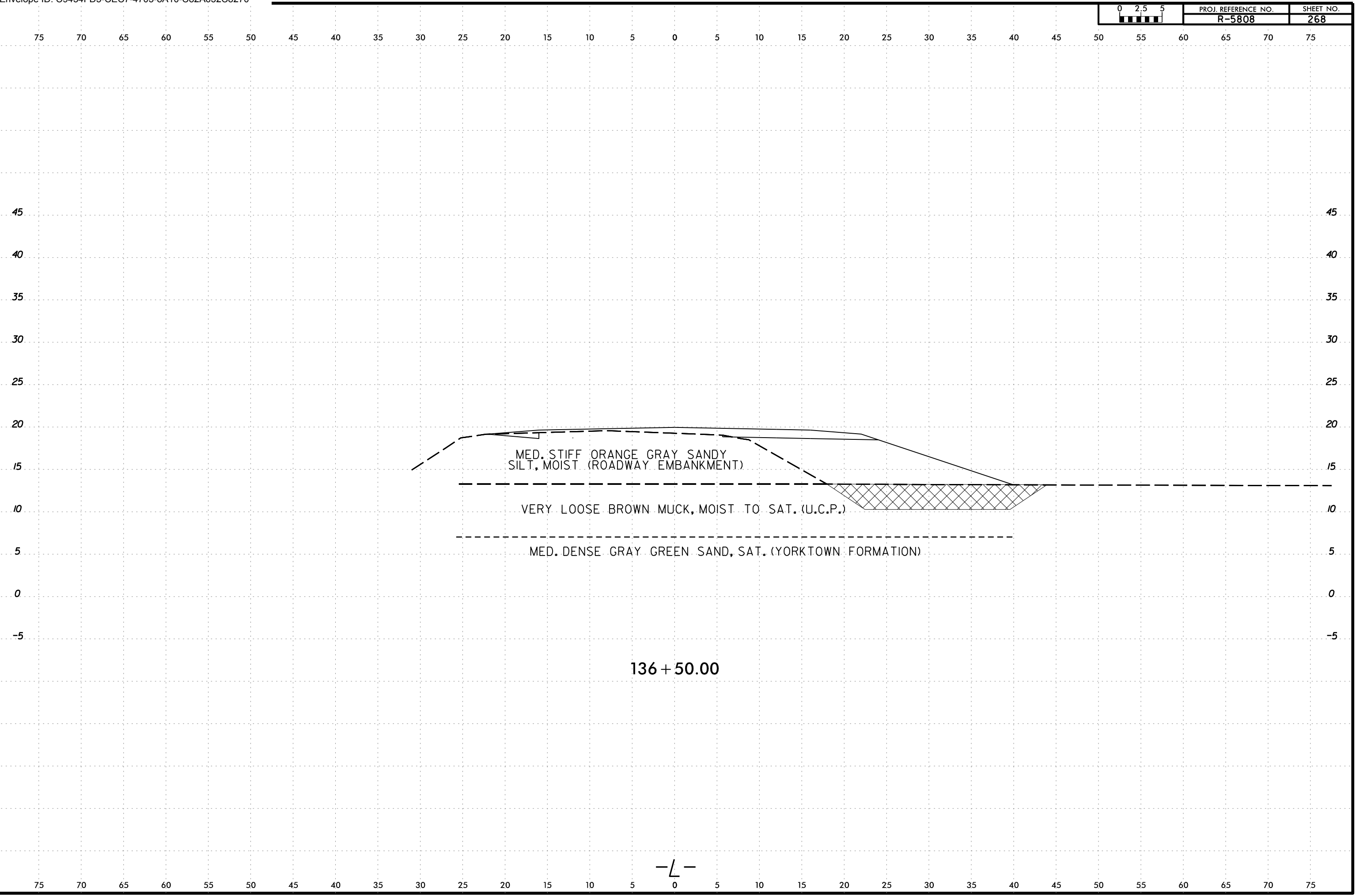
6/23/16  
2\MAY-2024 16:51  
C:\Users\jstone\1st\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

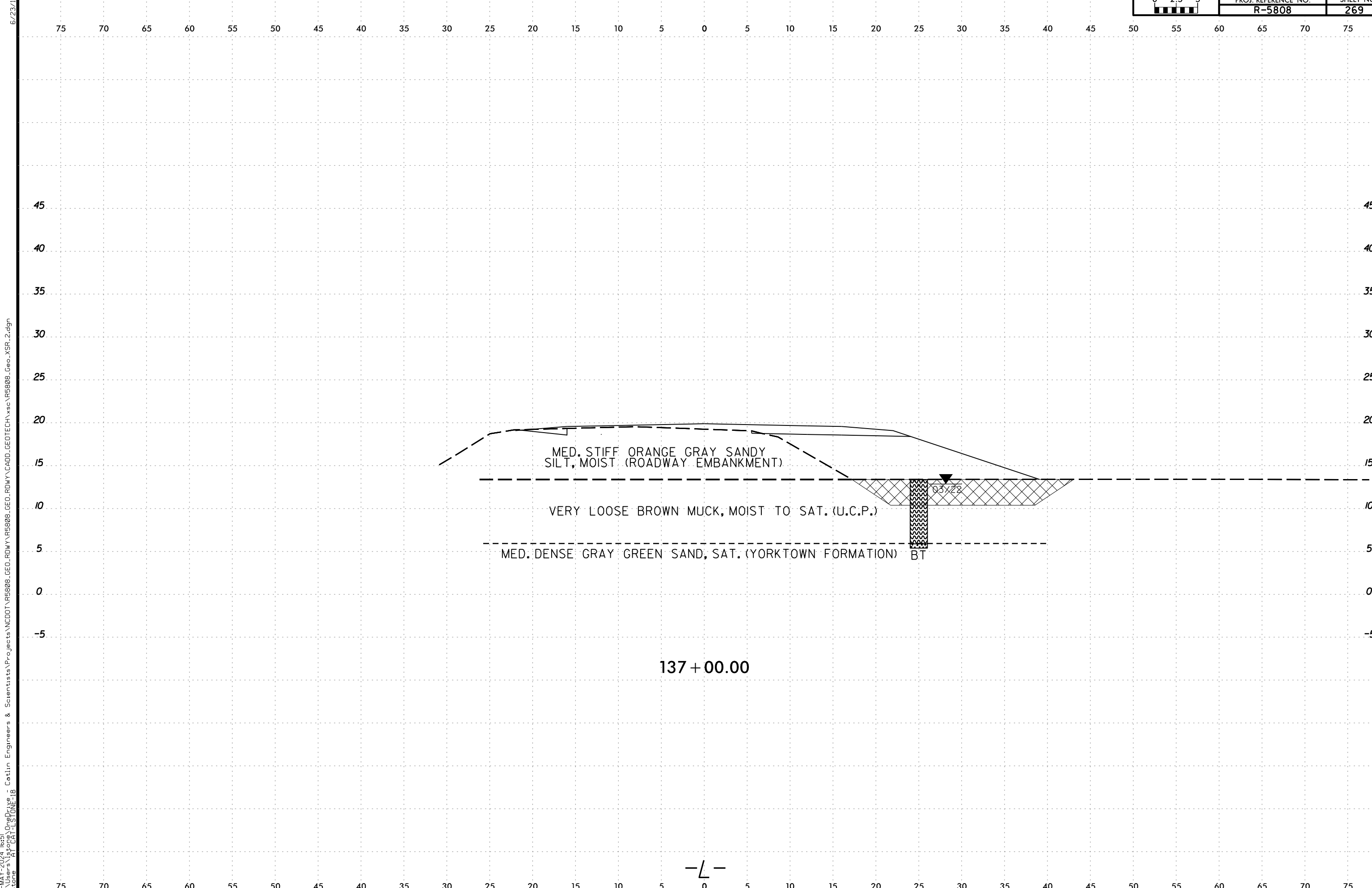


6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-STONE-18



6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

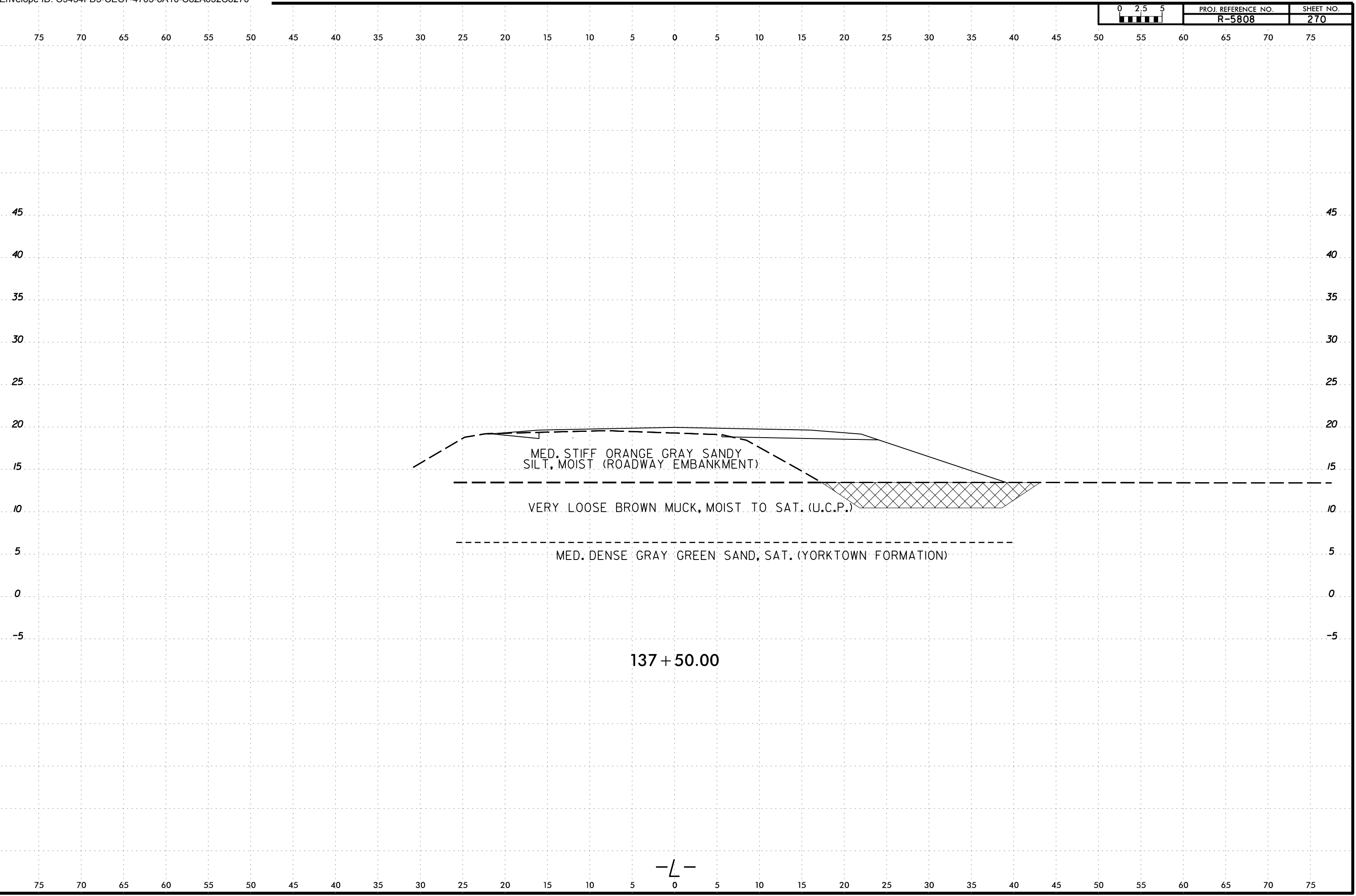




21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1-STONE-18

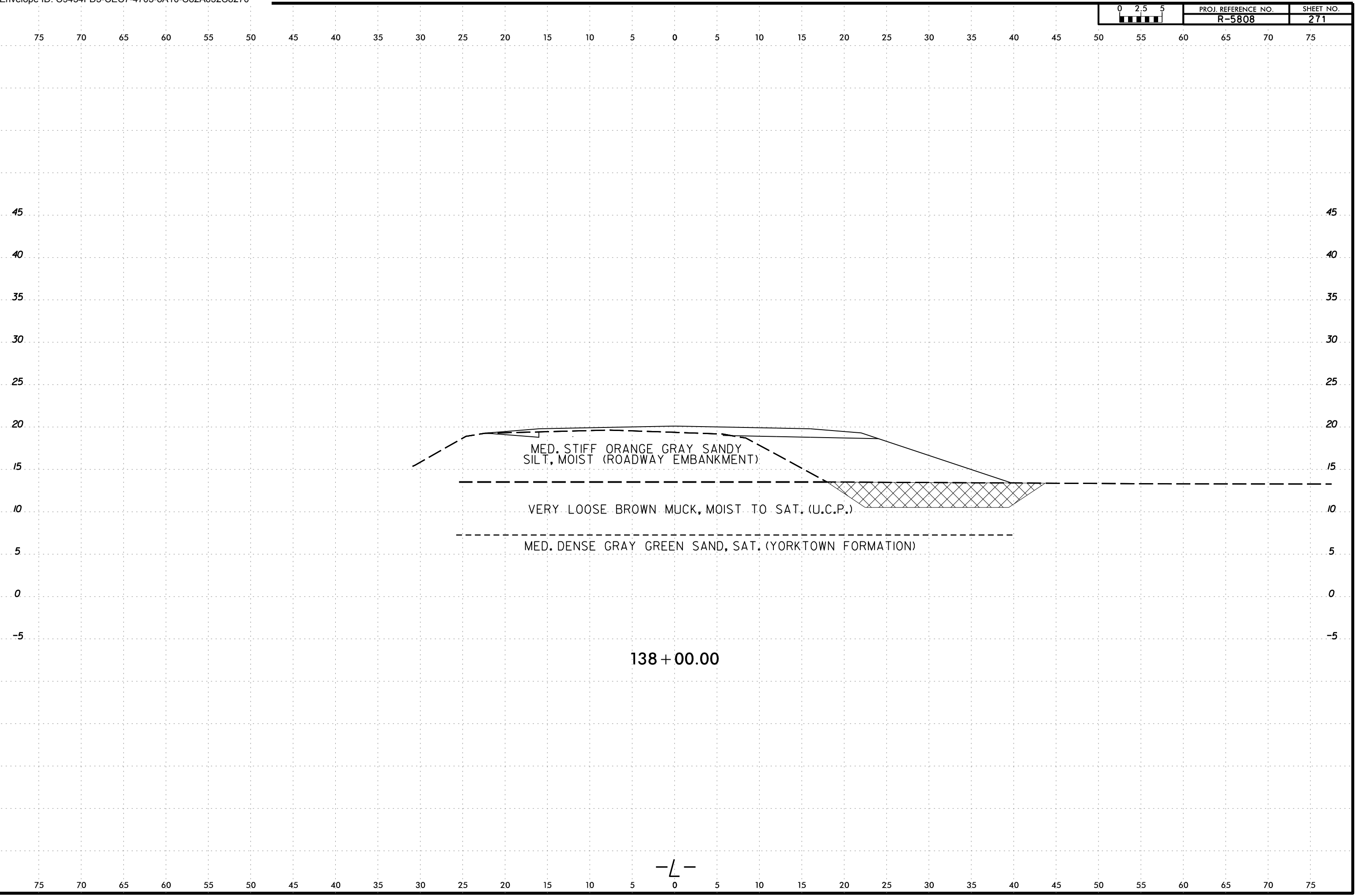
-L-

6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

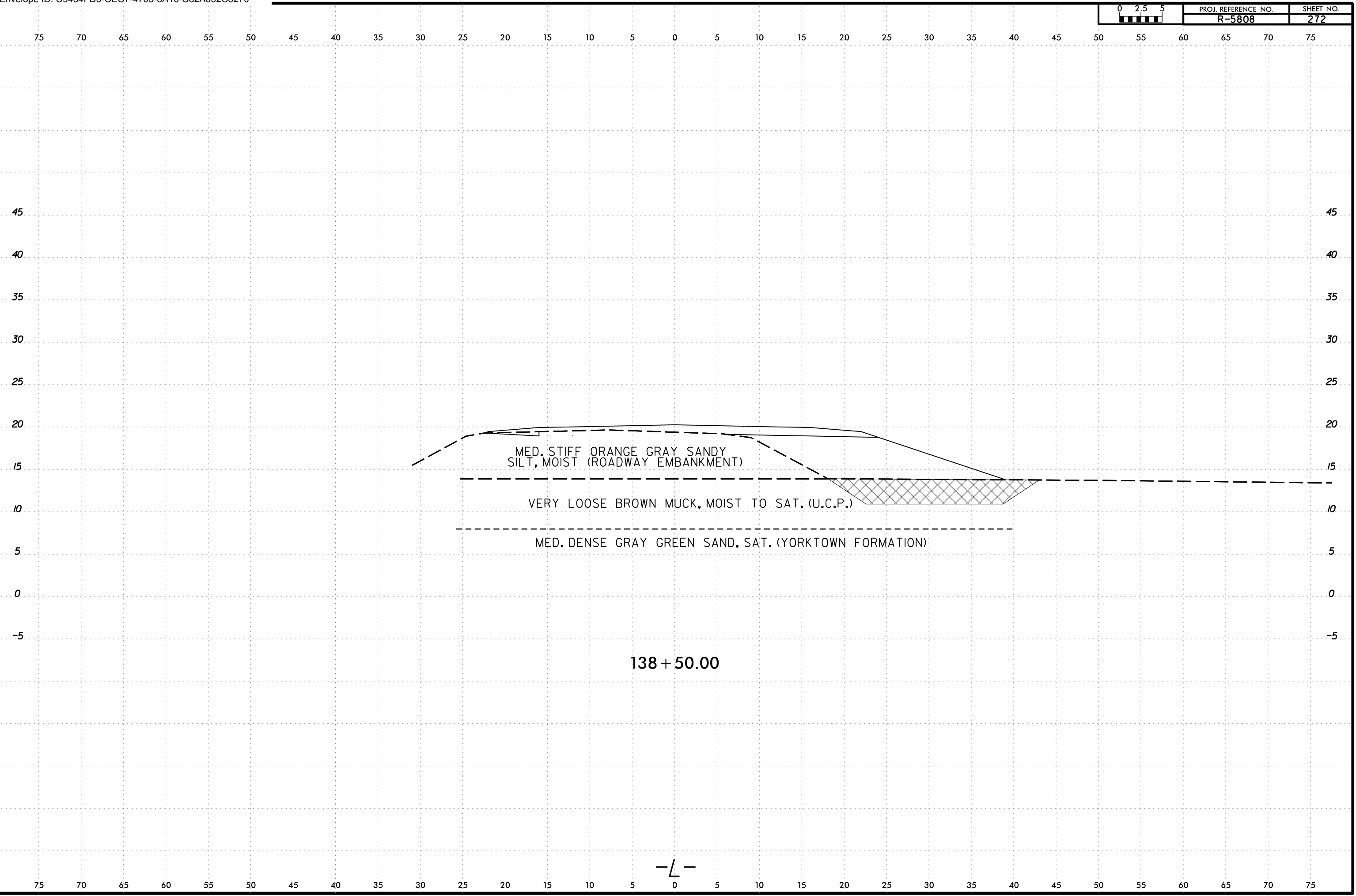


-L-

6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\1st\proj\AT-CAT-1-STONE-18  
Collin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn

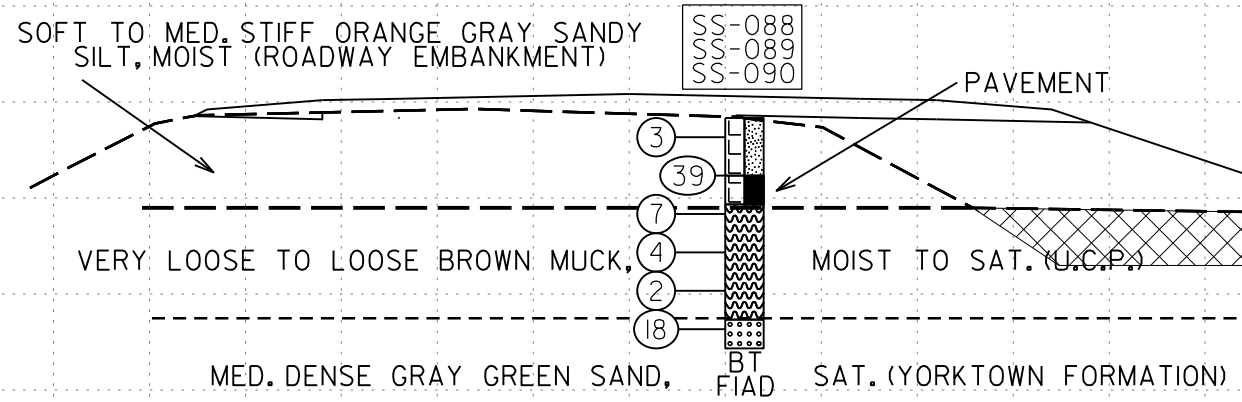


6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18





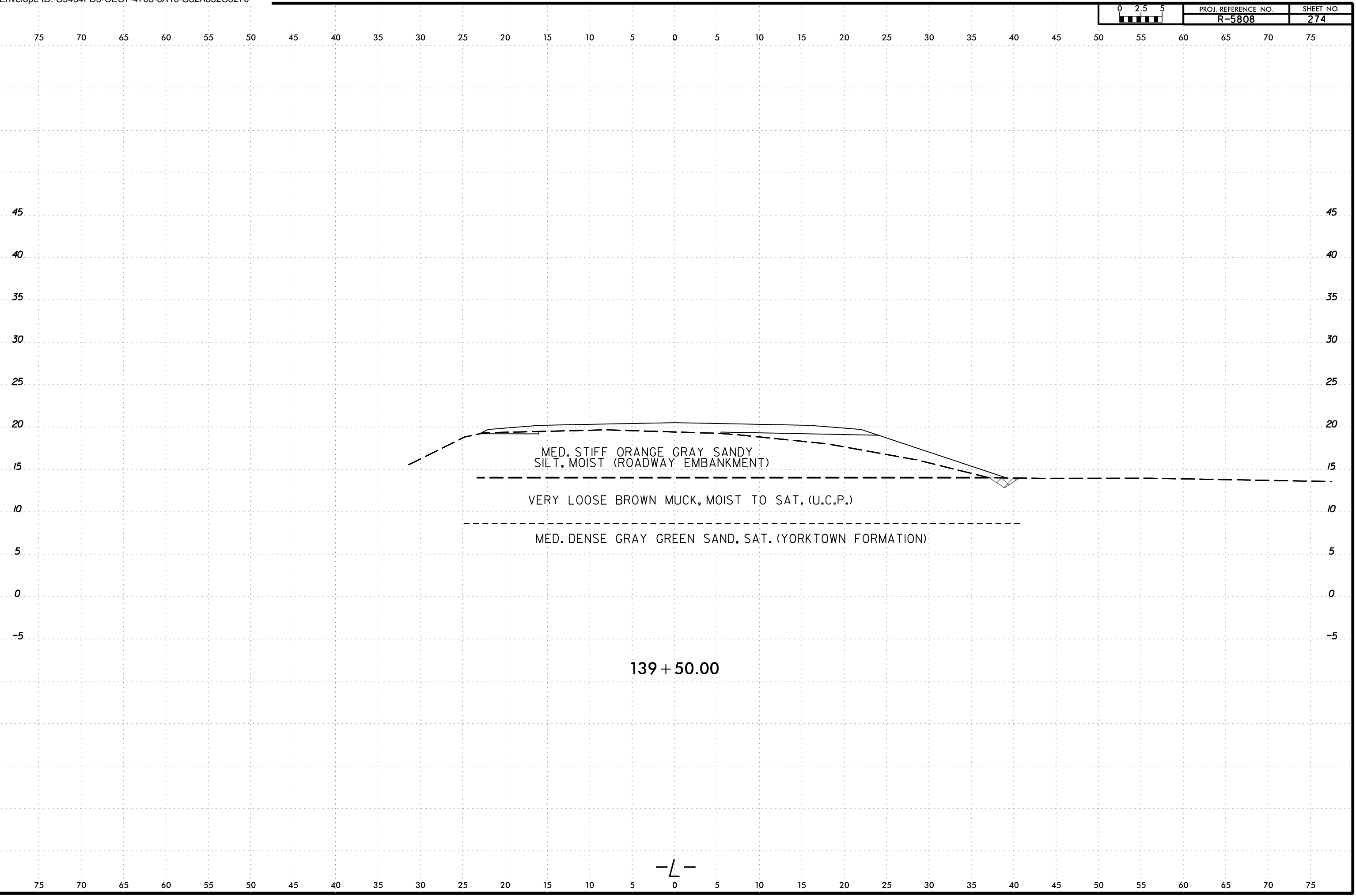
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-088	6 ft RT	139+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	60.5
SS-089	6 ft RT	139+00	8.0 - 10.0	-	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	-	-



139 + 00.00

2-MAY-2024 16:51  
 C:\Users\lstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\RS808\_GEO\_XSR\_2.dgn  
 lstone  
 AT CAT-STONE-18

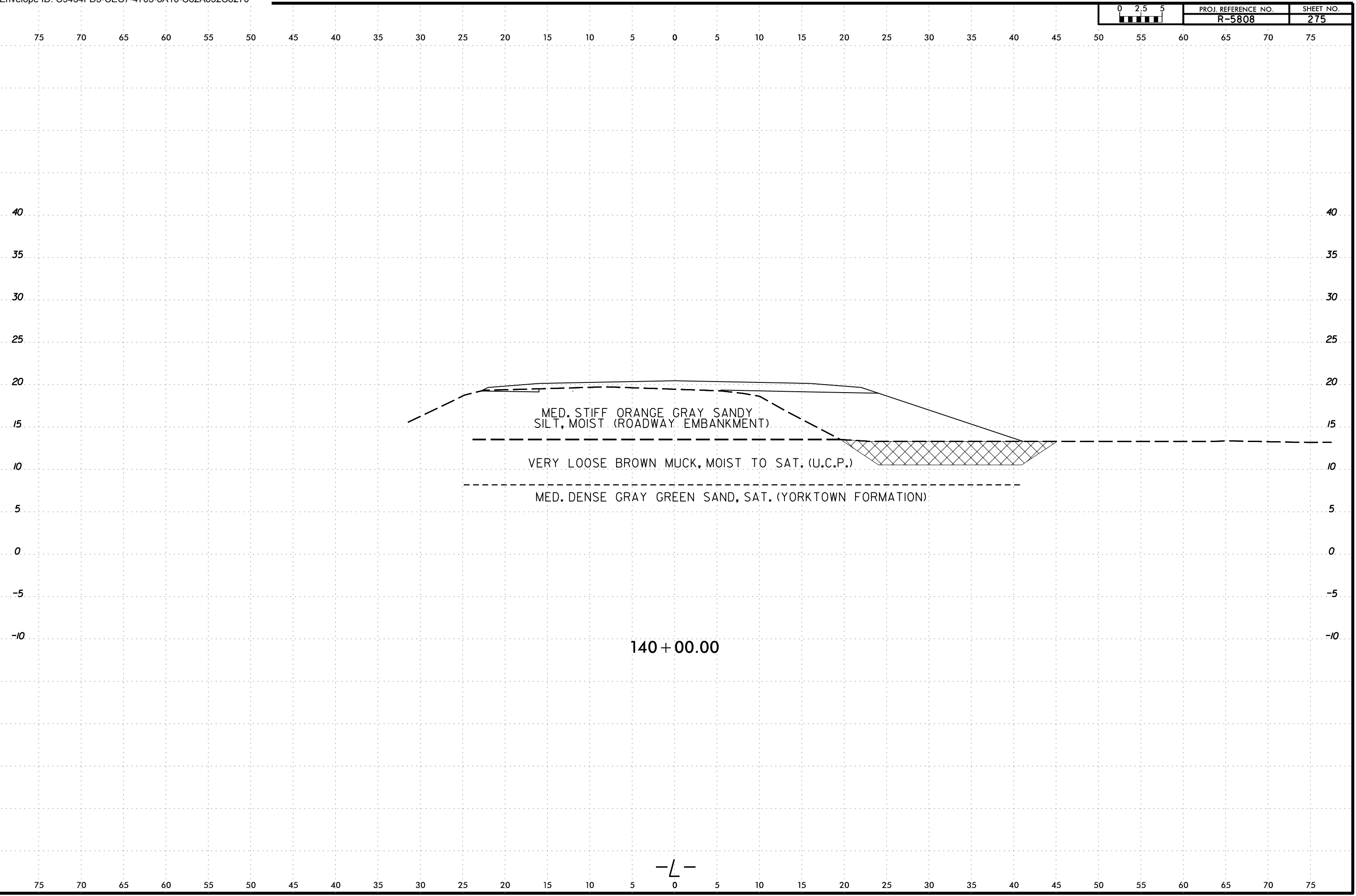
6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

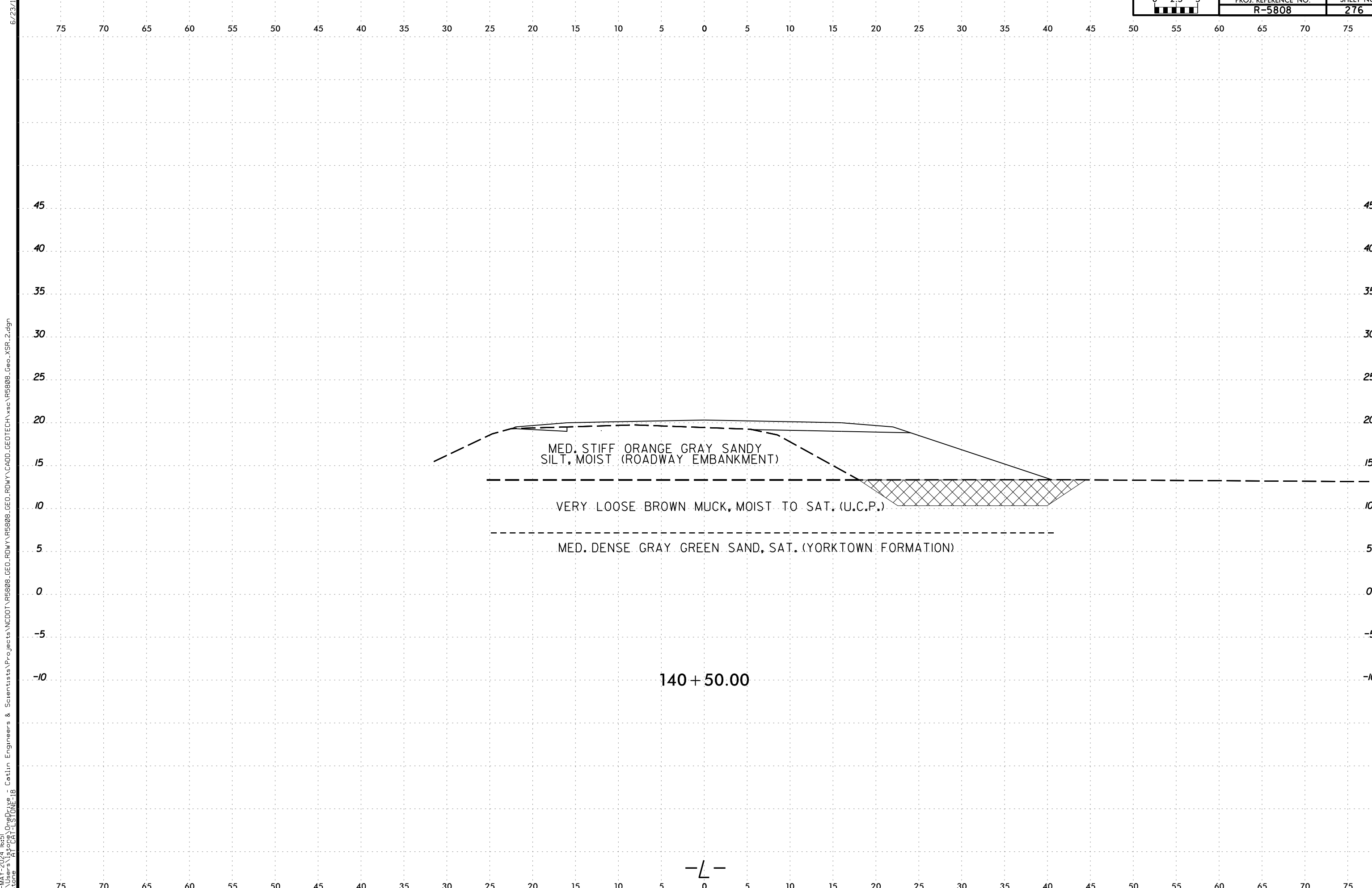


139 + 50.00

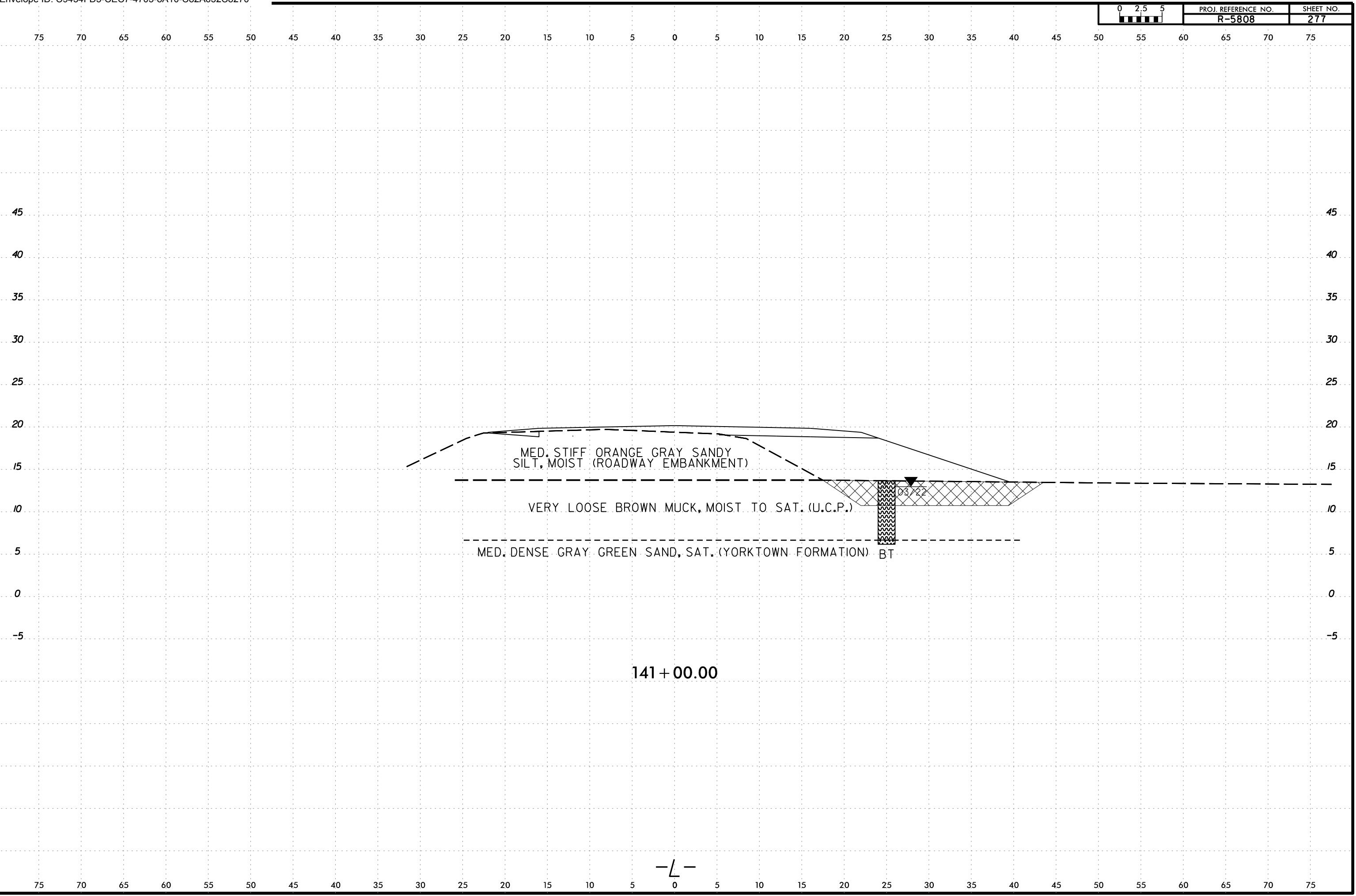
-L-

6/23/16  
2\MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18





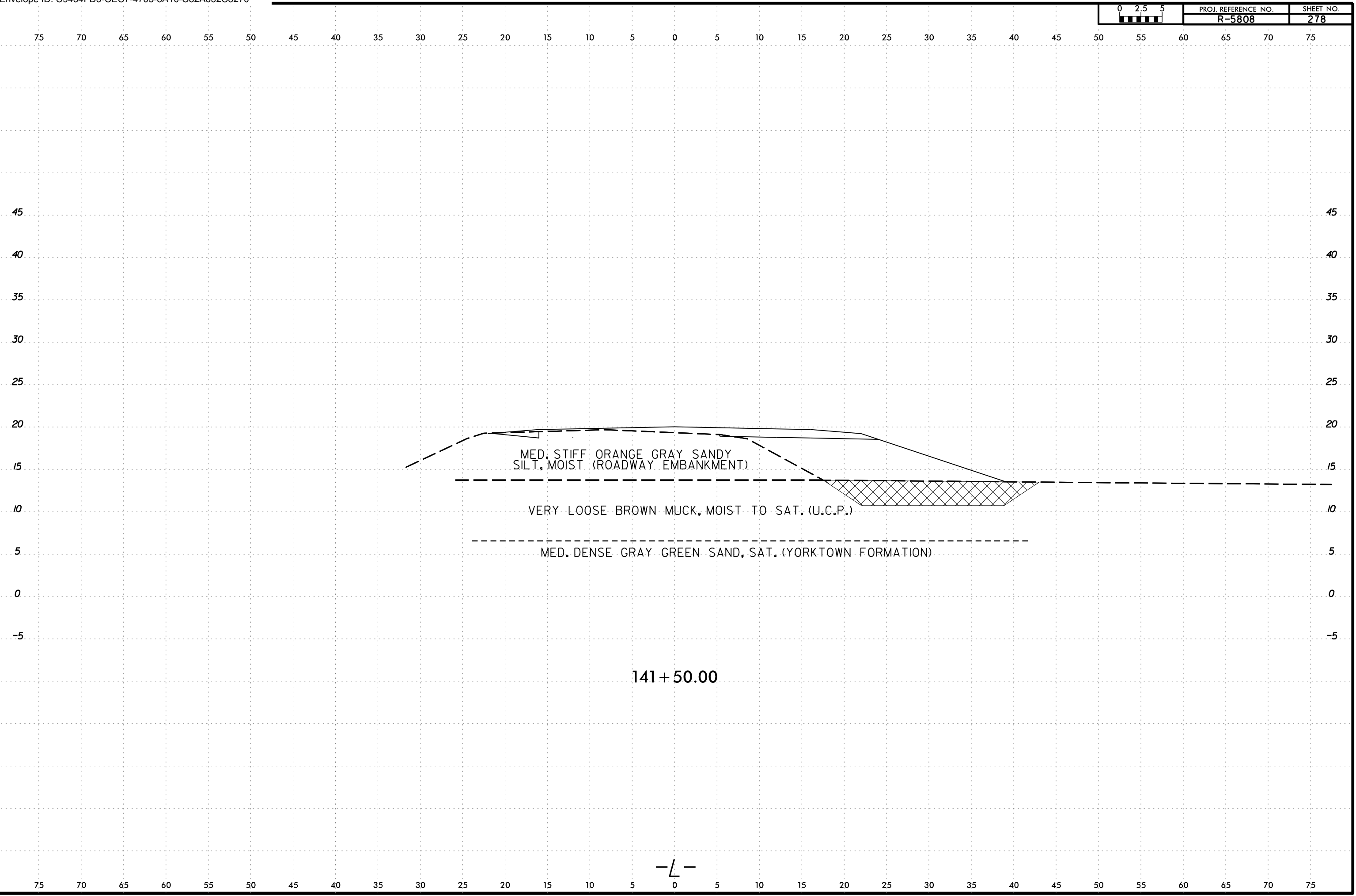
6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-STONE-18



141 + 00.00

—L—

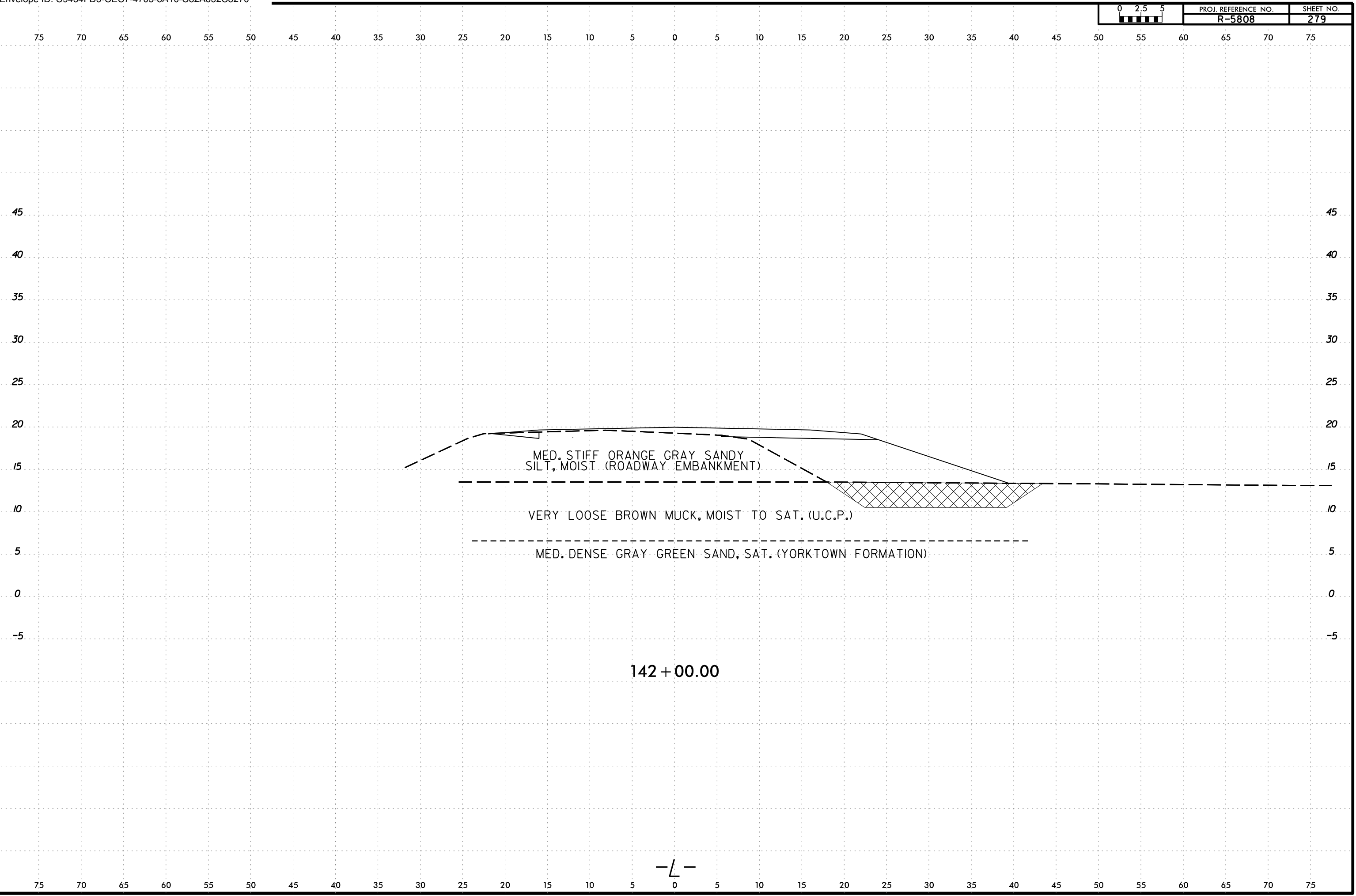
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



141 + 50.00

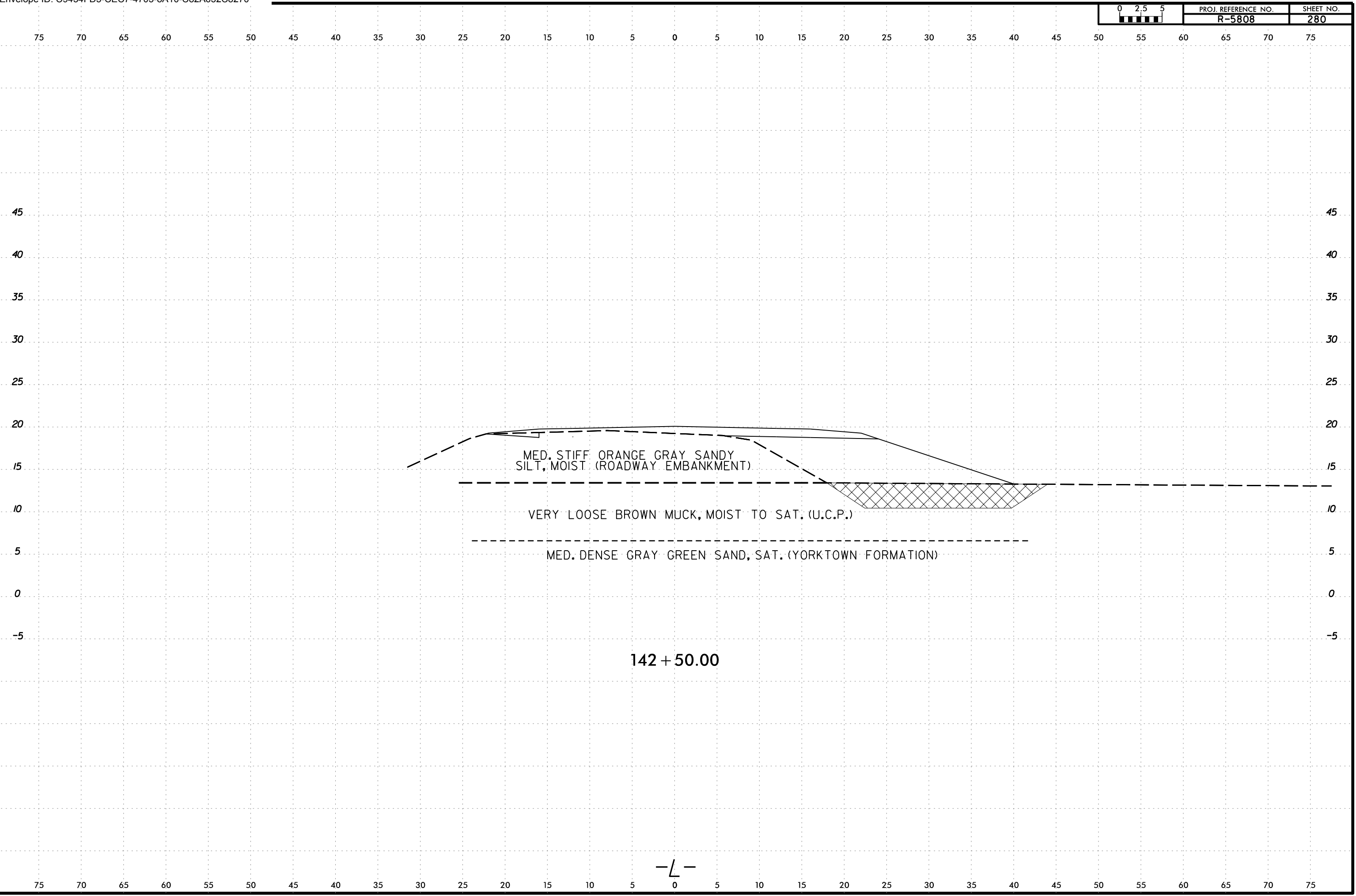
—L—

6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



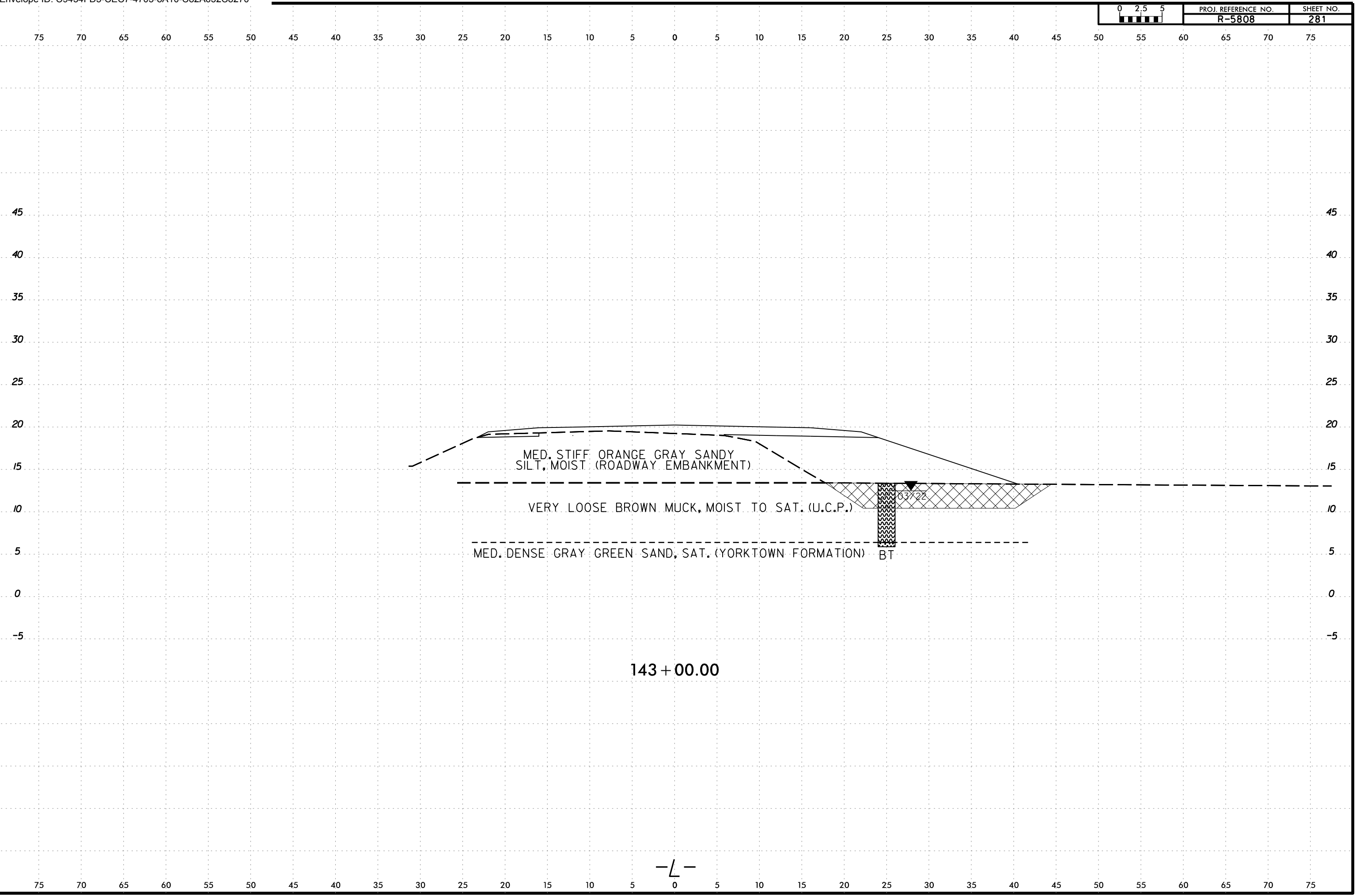
—L—

6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

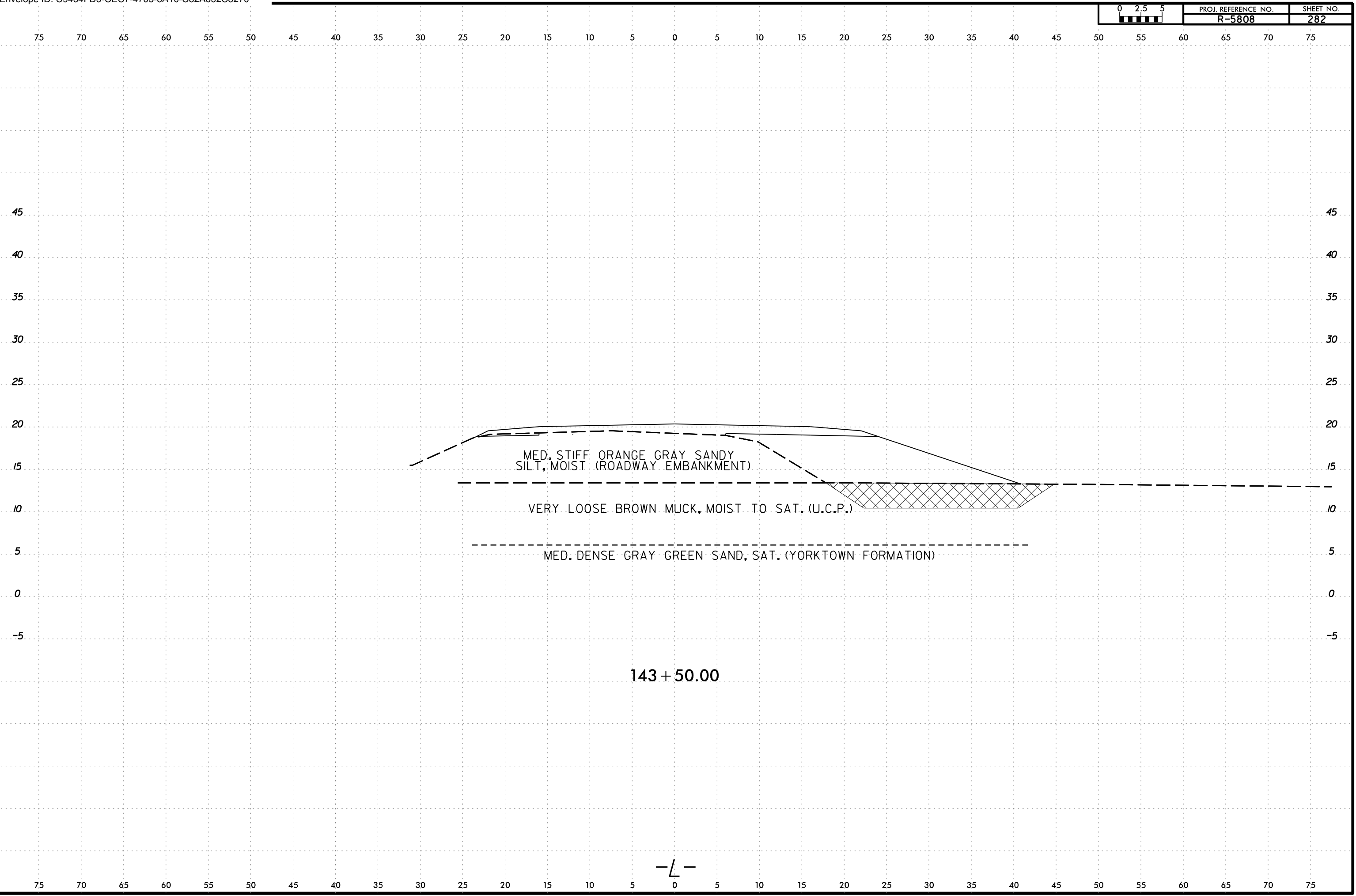




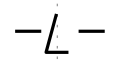
6/23/16  
2\MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

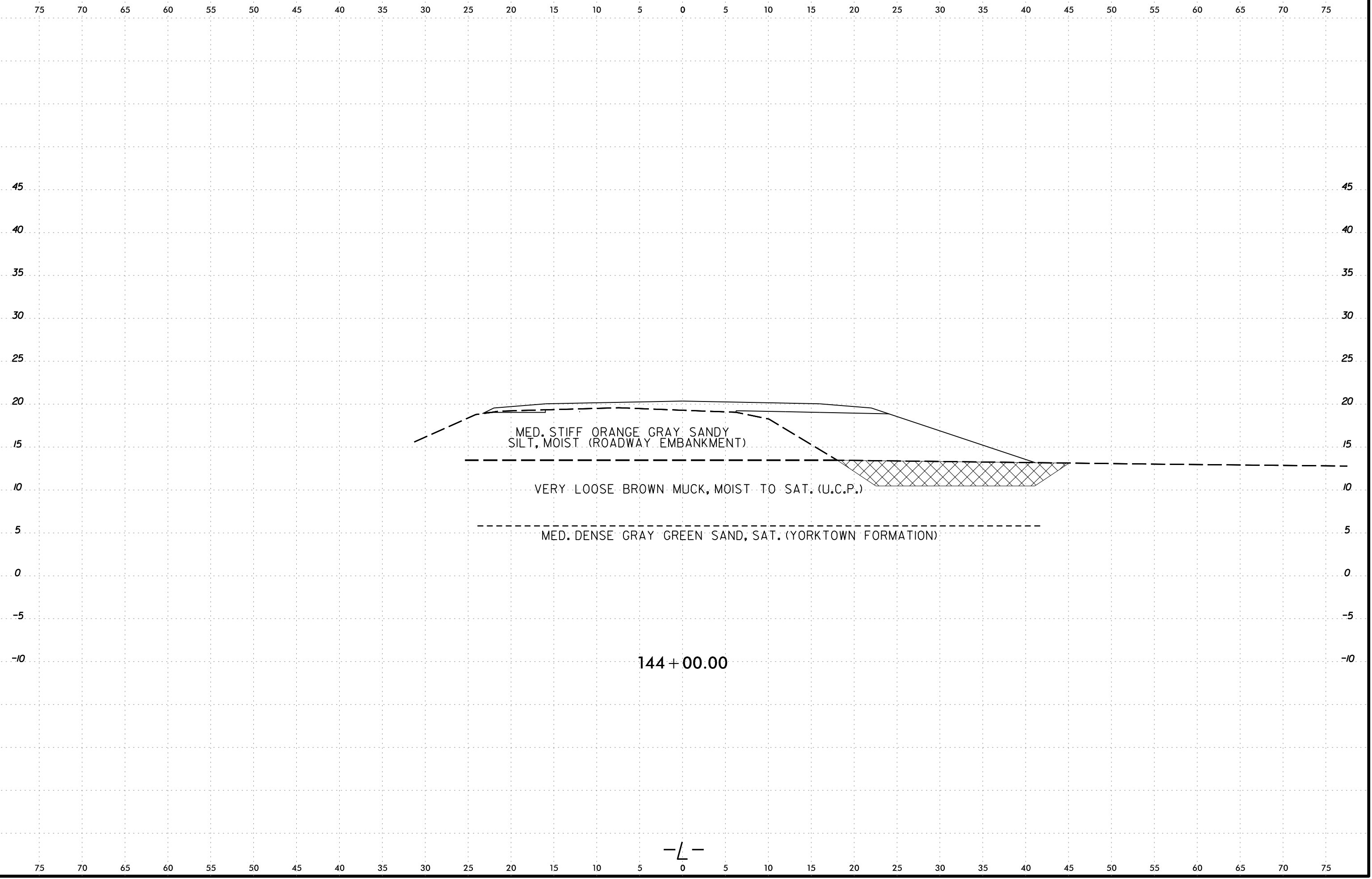


143 + 50.00



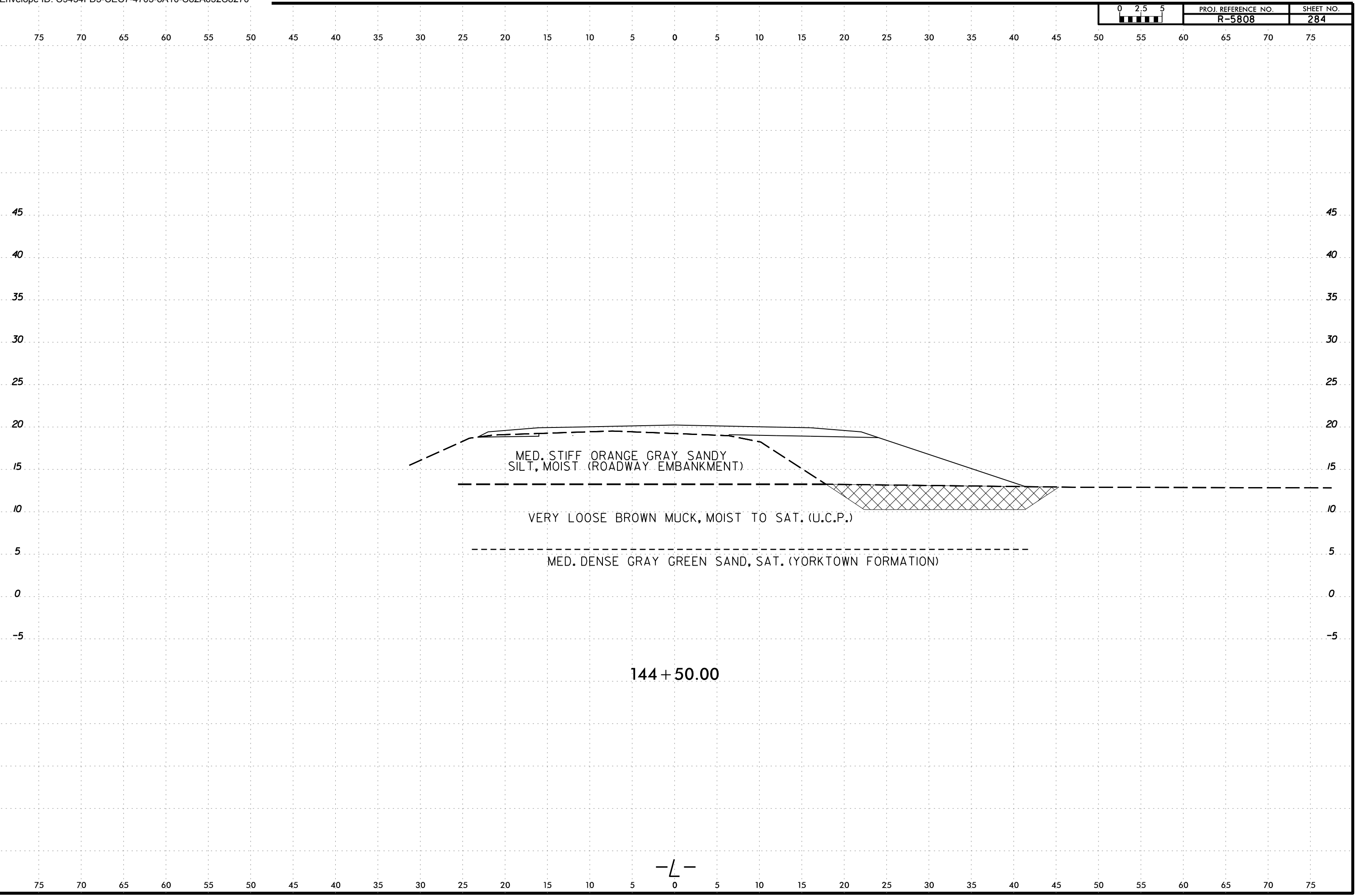
6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDOT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	283

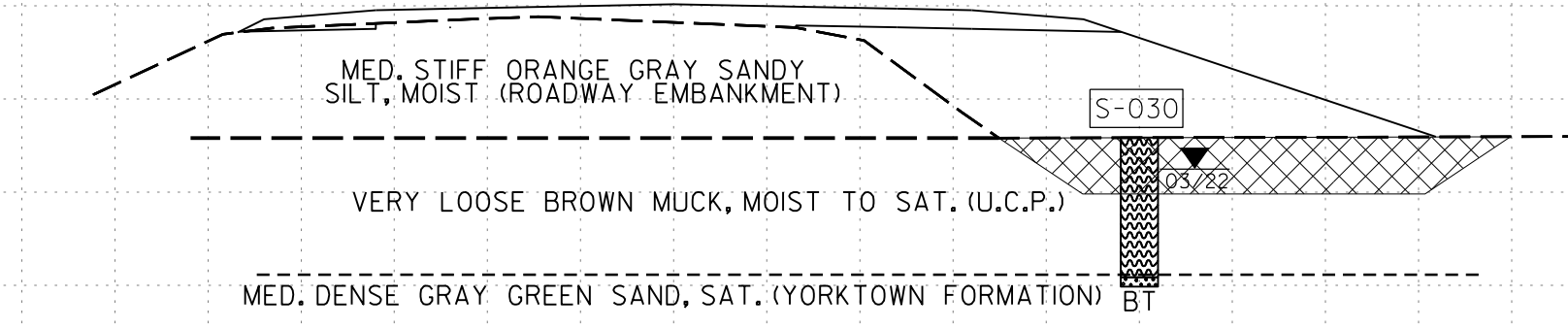


-L-

6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
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		
S-030	25 ft RT	145+00	0.0 - 3.0	()	NEM	-	32.9	13.9	48.6	4.6	99.3	74	55	265	64.9



145 + 00.00

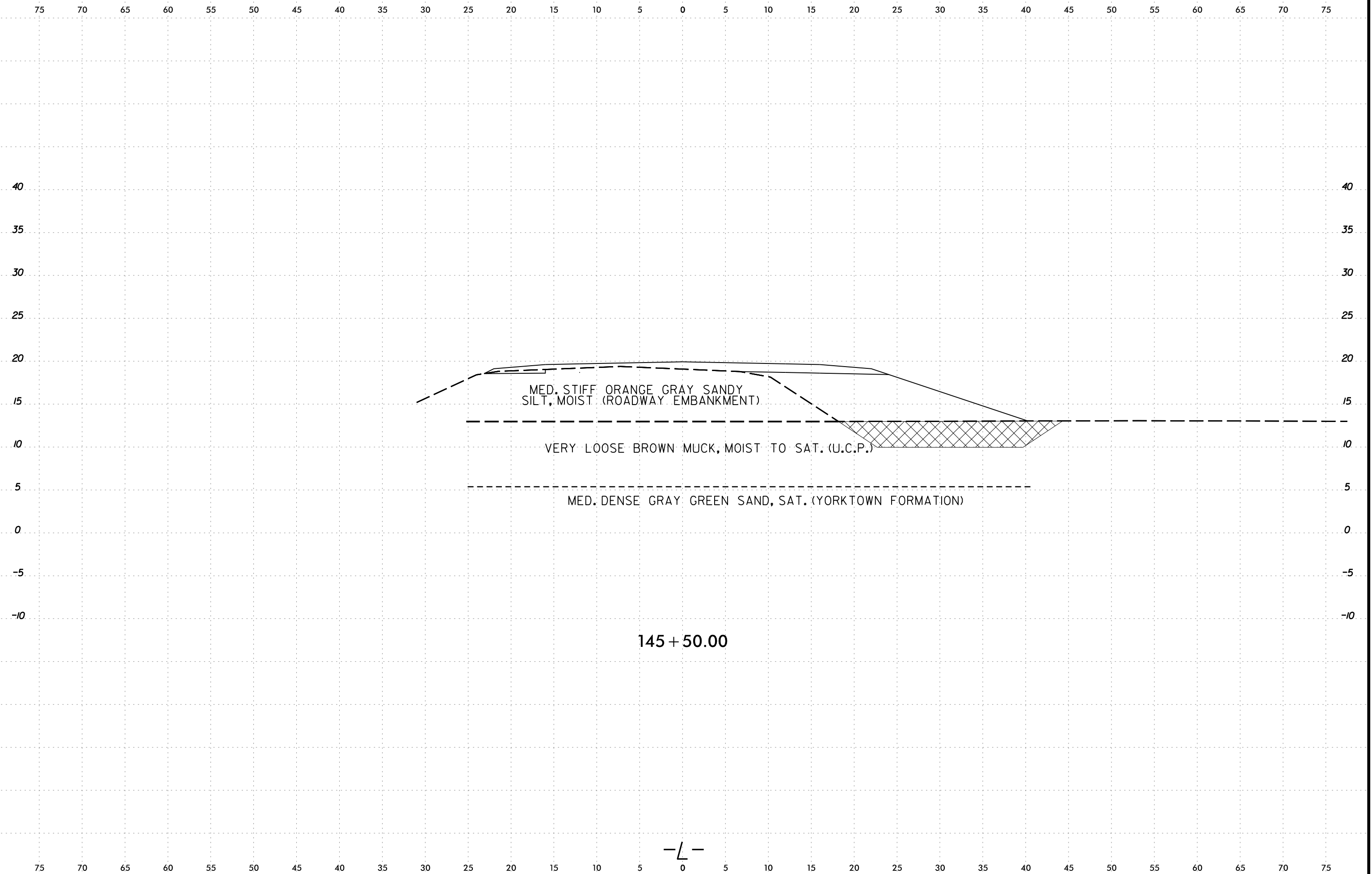
-L-

2-MAY-2024 16:51  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
 jstone  
 AT CAT-STONE-18

6/23/16

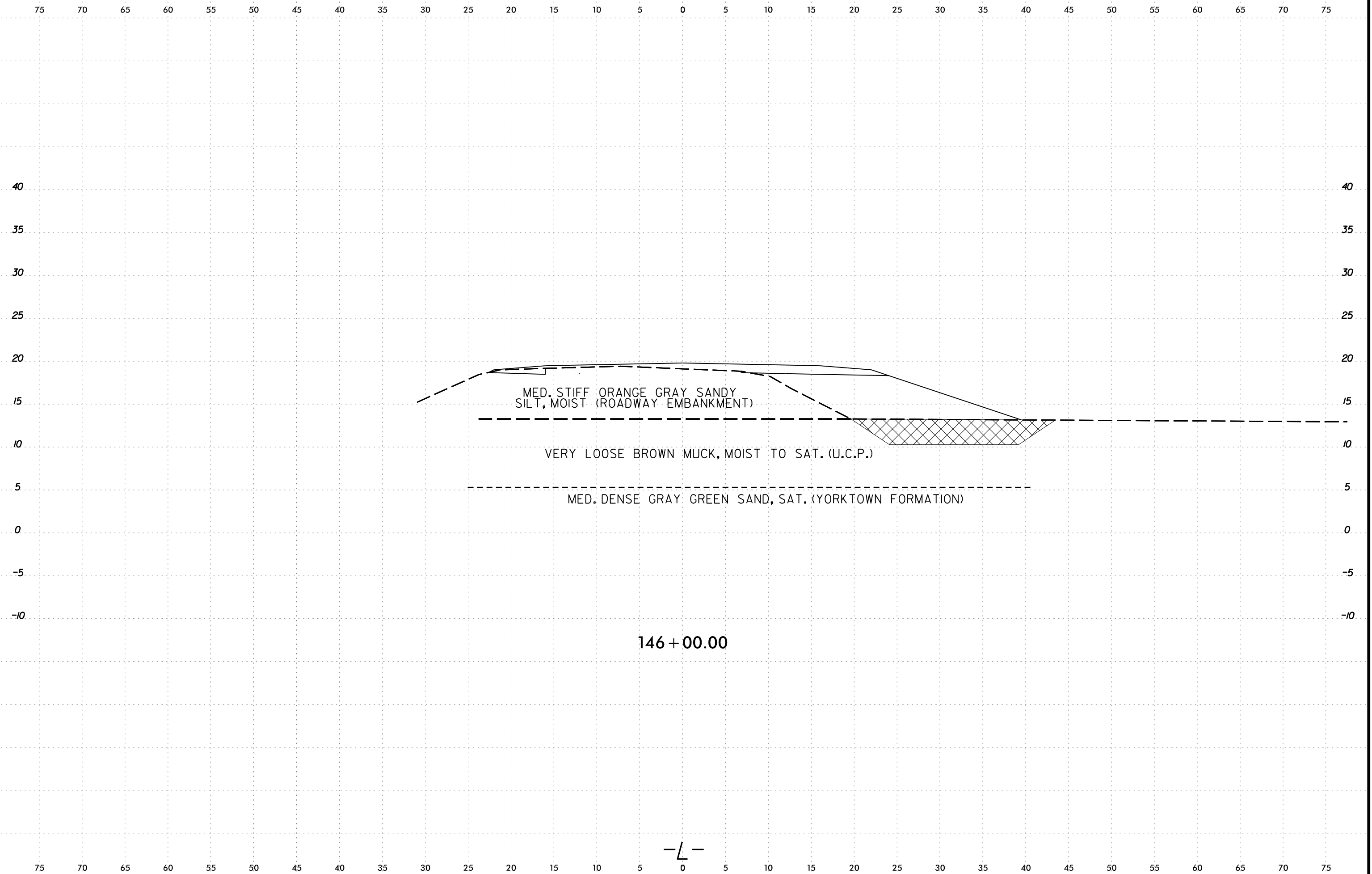
6/23/16  
21MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
ISTONE  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	286

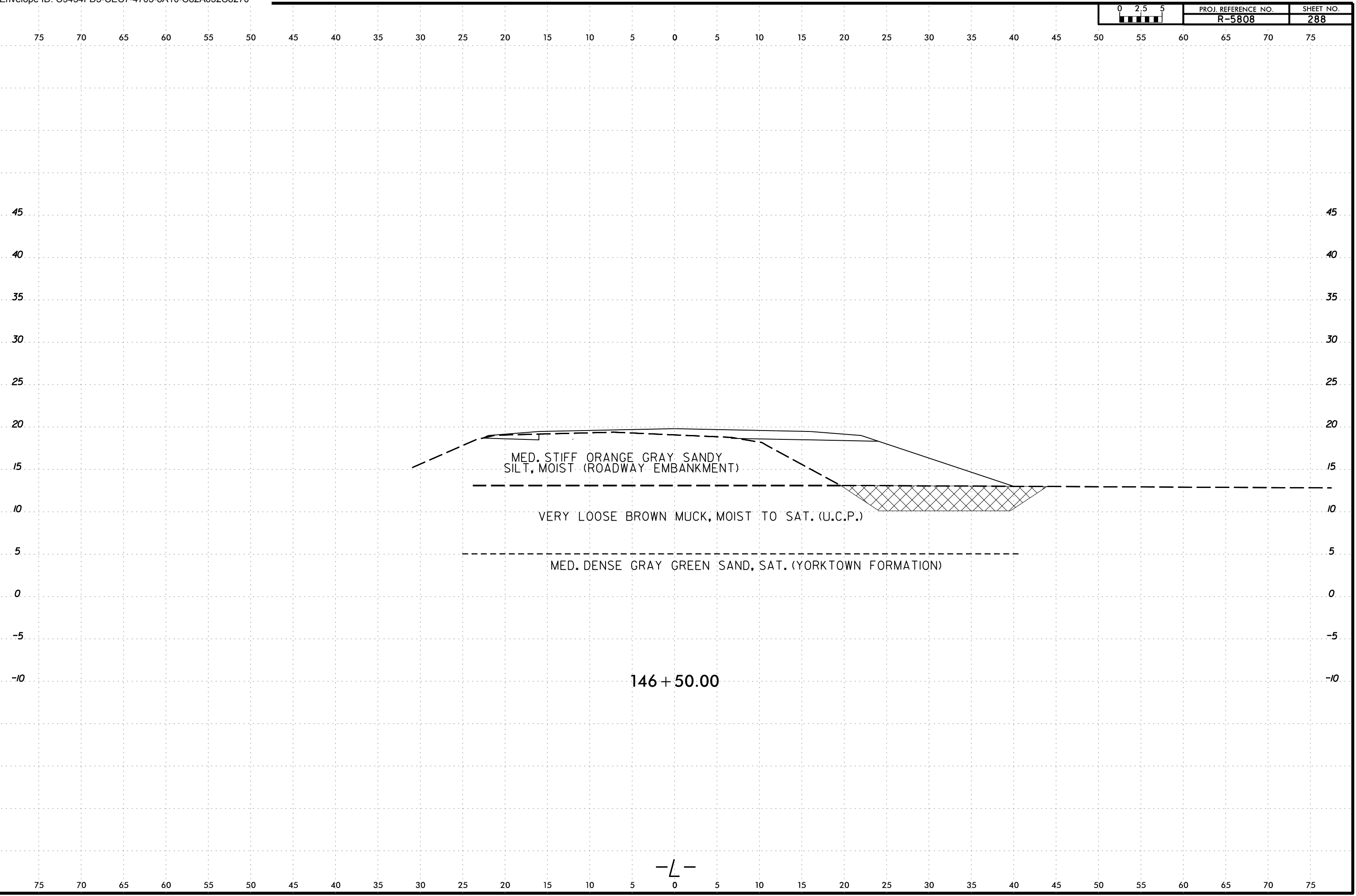


6/23/16  
21MAY-2024 16:51  
C:\Users\lstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\RDWY\XSR\_2.dgn  
lstone  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	287

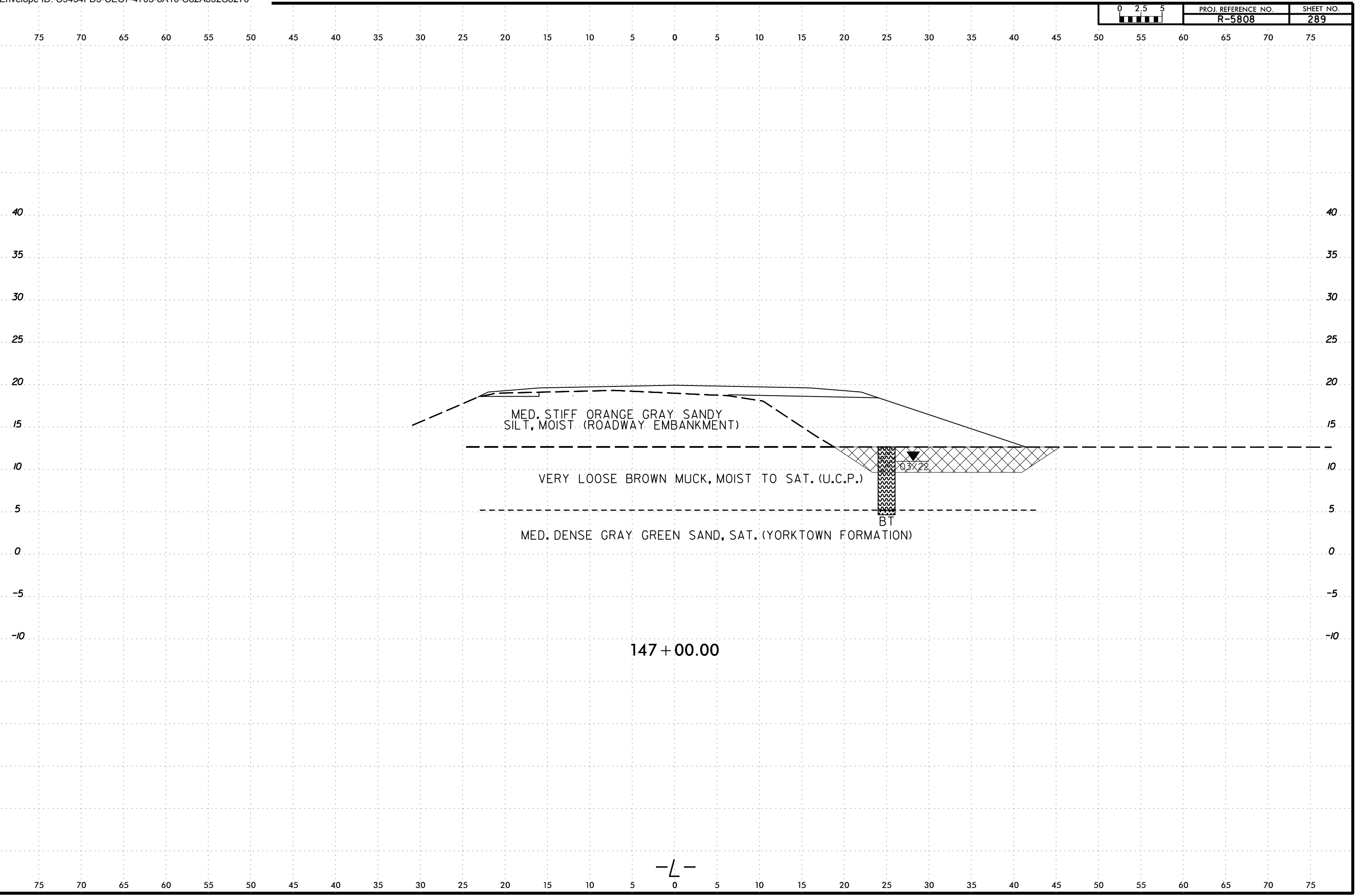


6/23/16  
21-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

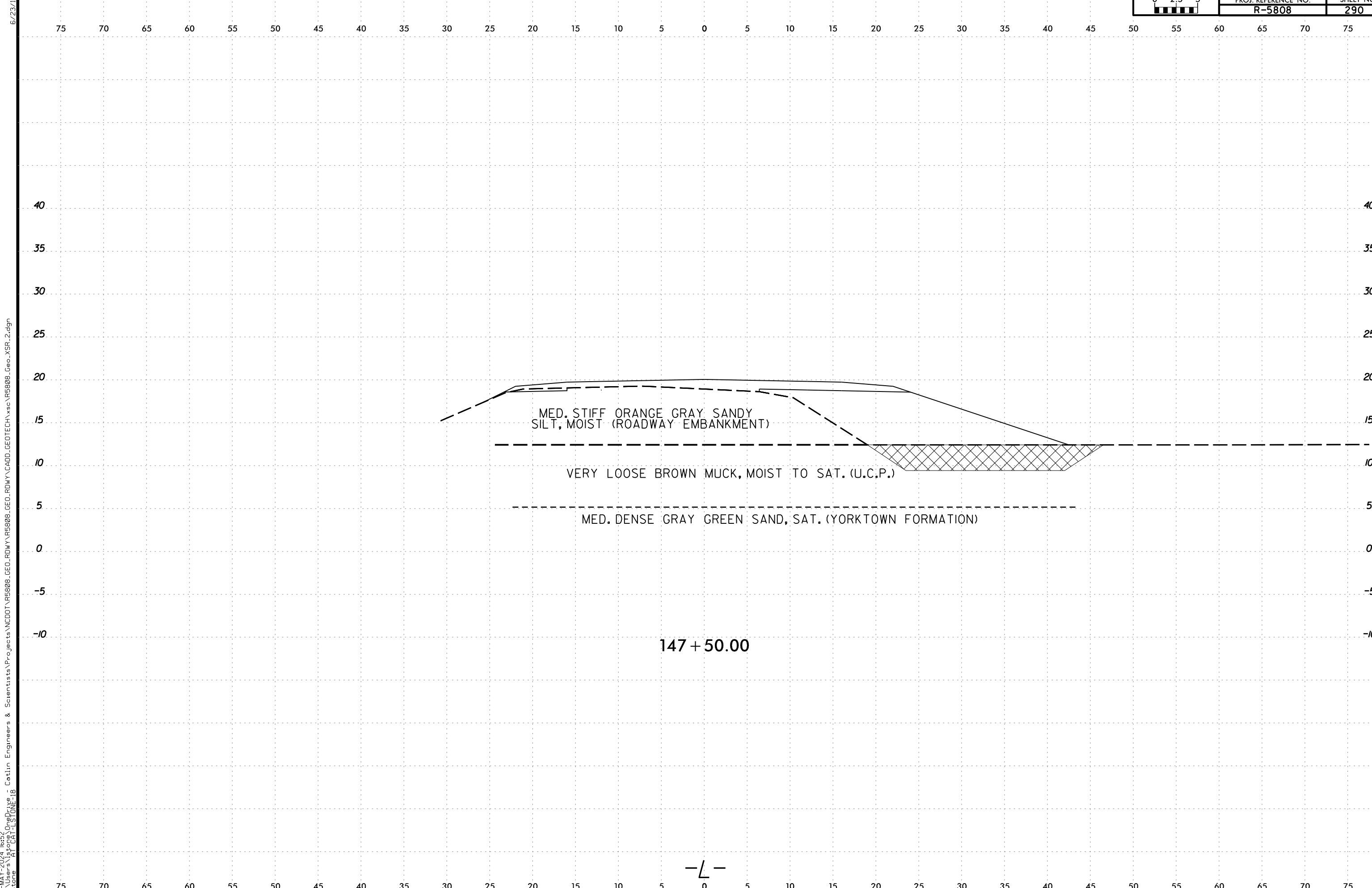




6/23/16  
2-MAY-2024 16:51  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



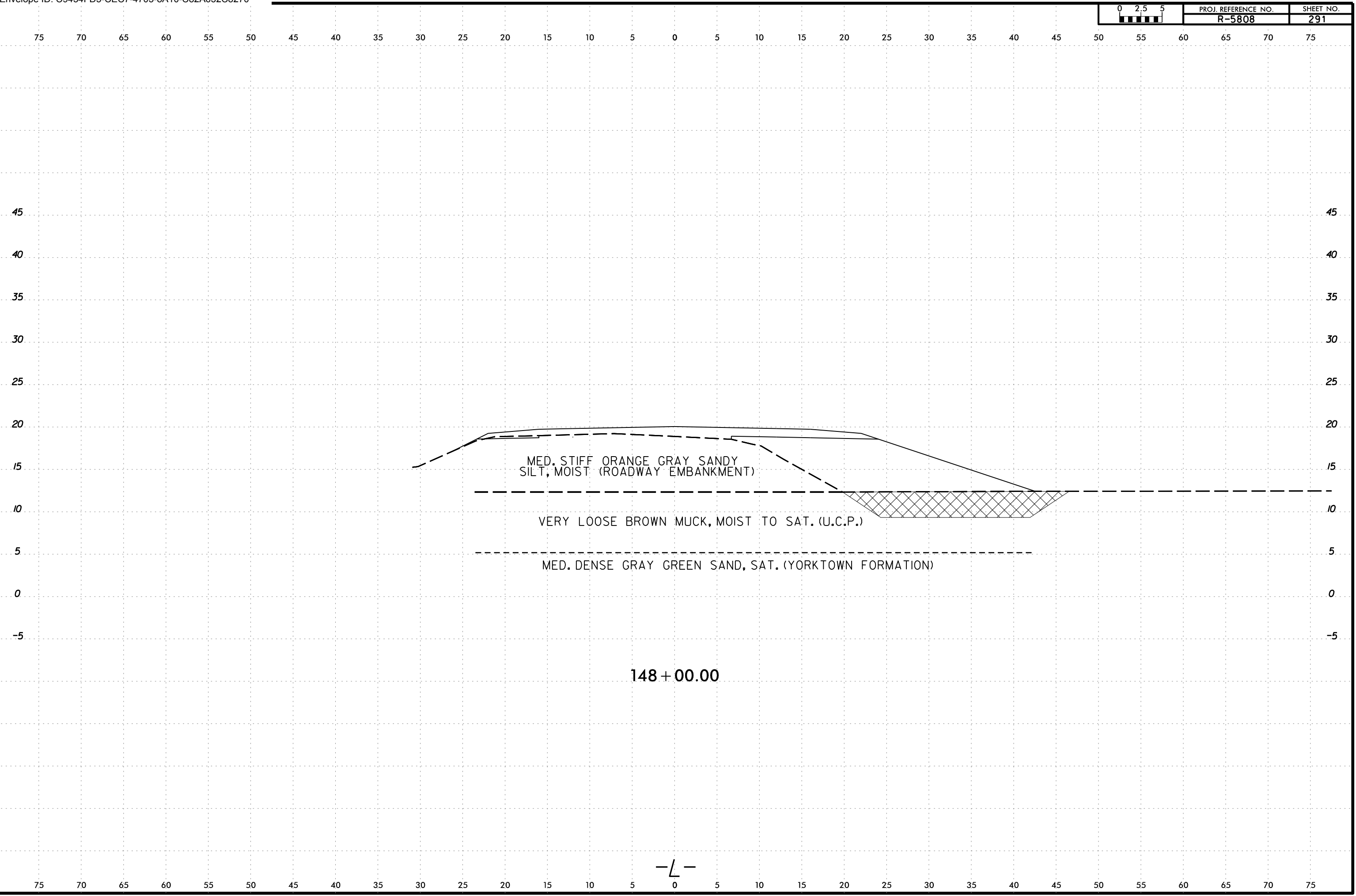
-L-



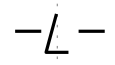
21-MAY-2024 16:52  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
 jstone  
 AT CAT-STONE-18

6/23/16

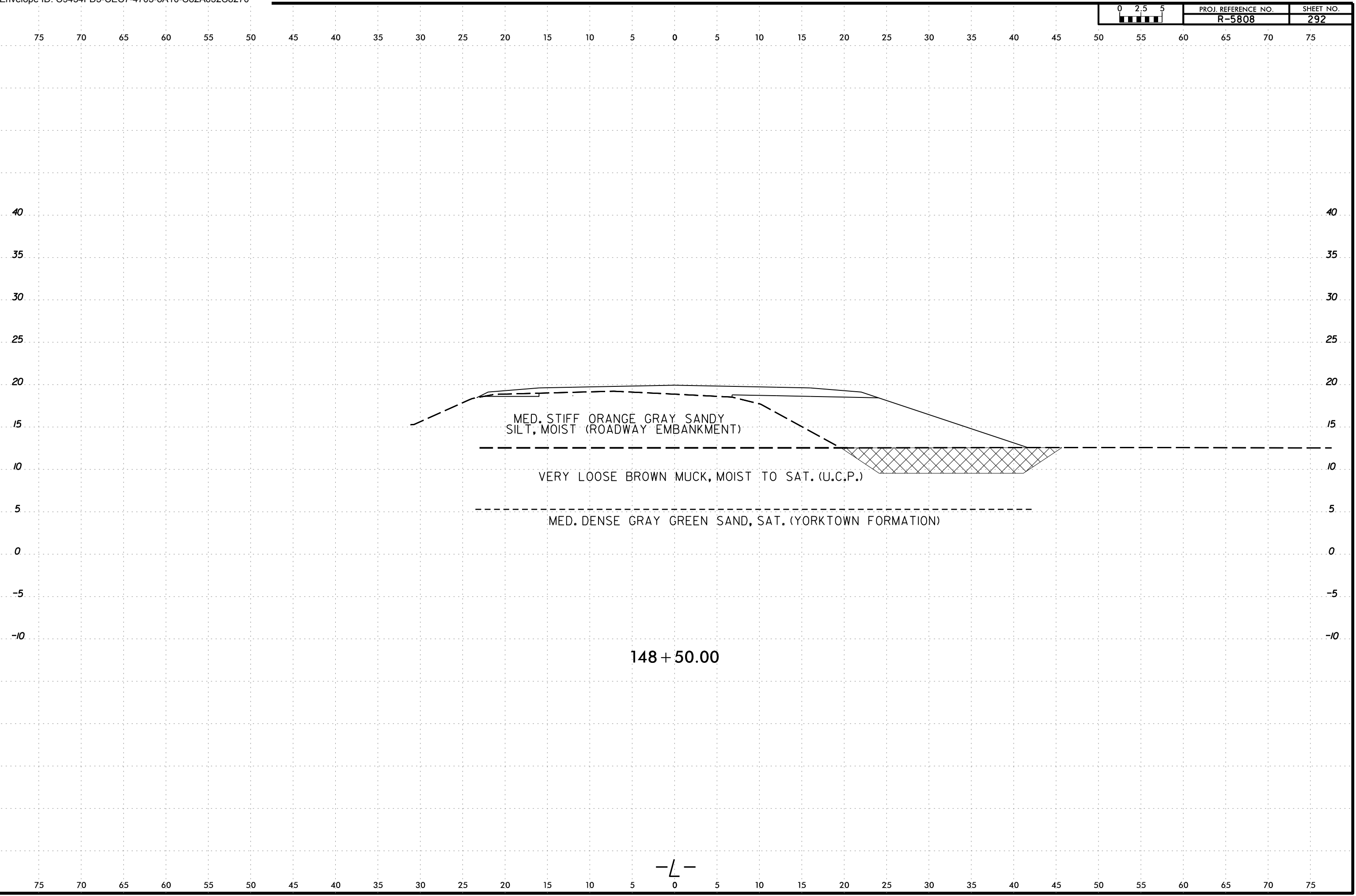
6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



148+00.00



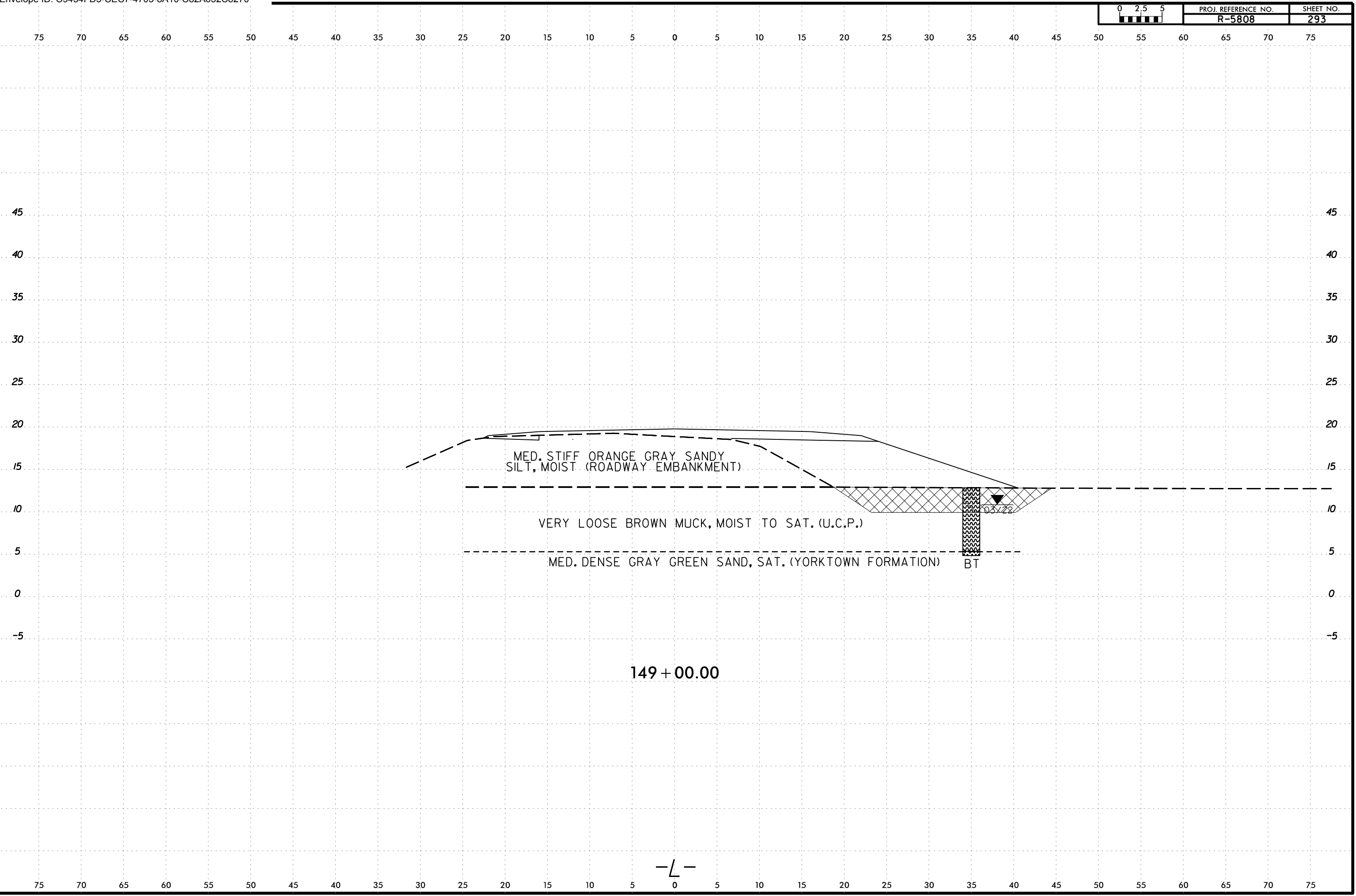
6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\RDWY\Geo\_XSR\_2.dgn  
jstone



148 + 50.00

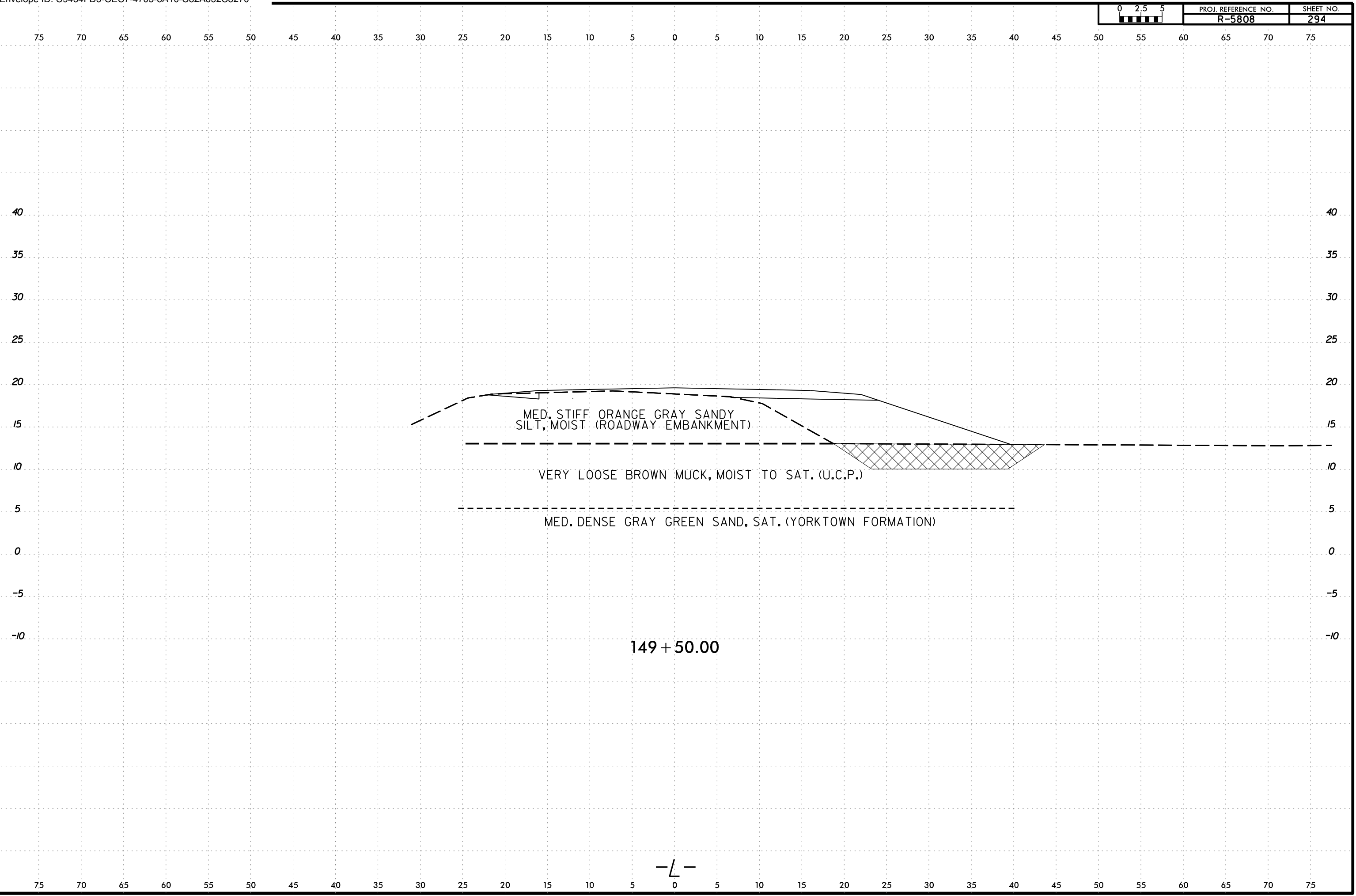
-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone



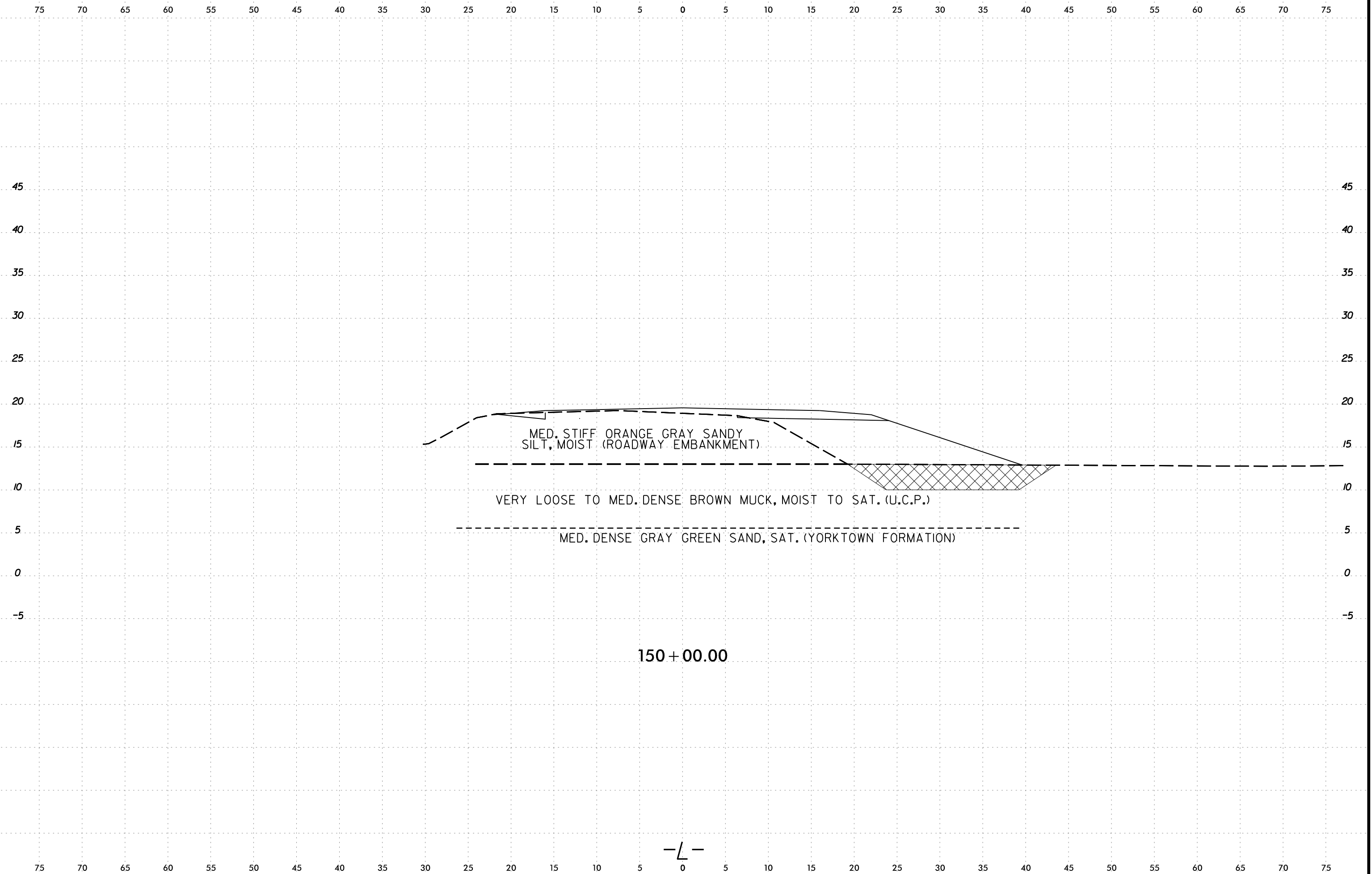
—L—

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

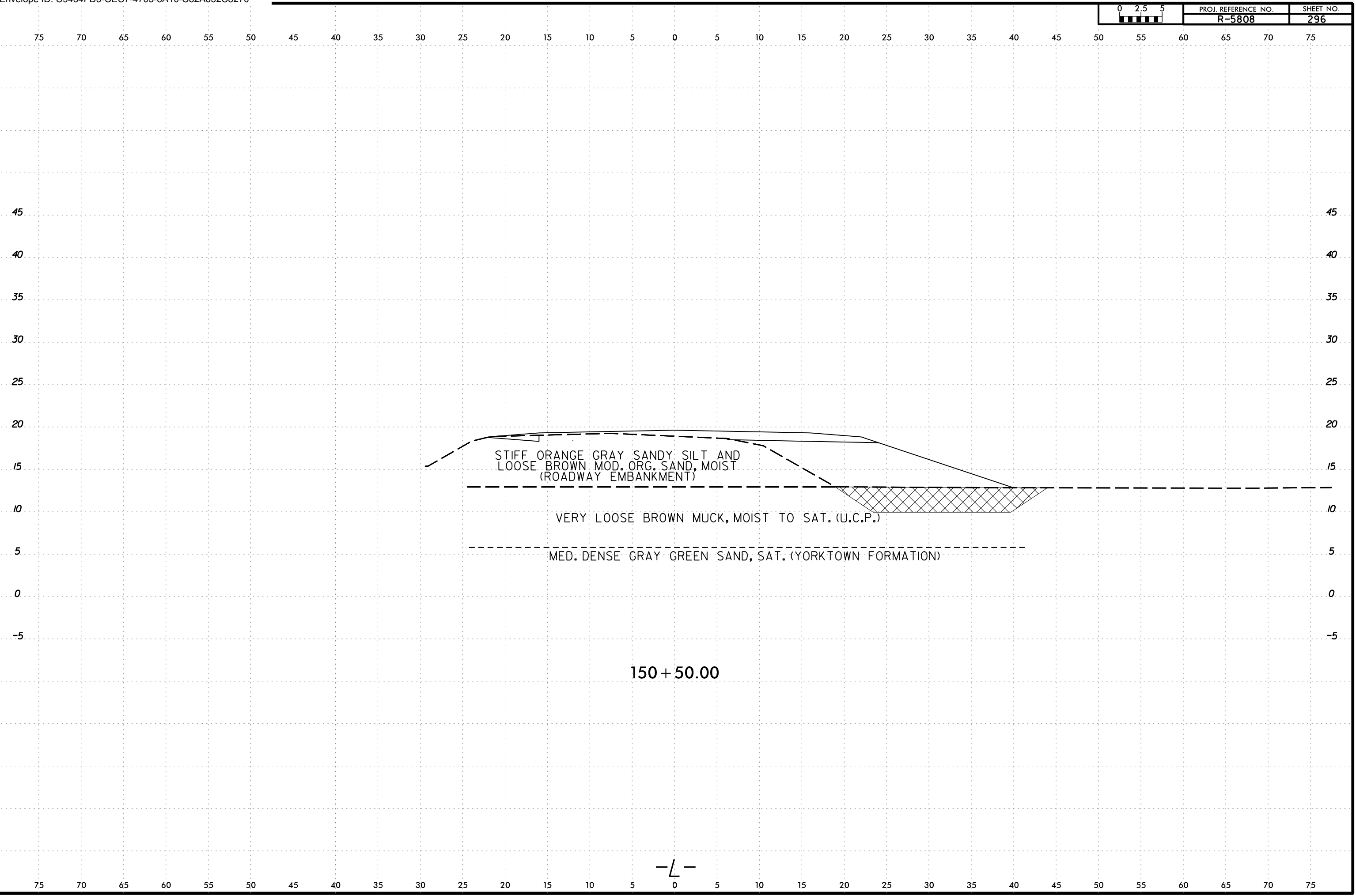


6/23/16  
21-MAY-2024 16:52  
C:\Users\lstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
lstone

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	295

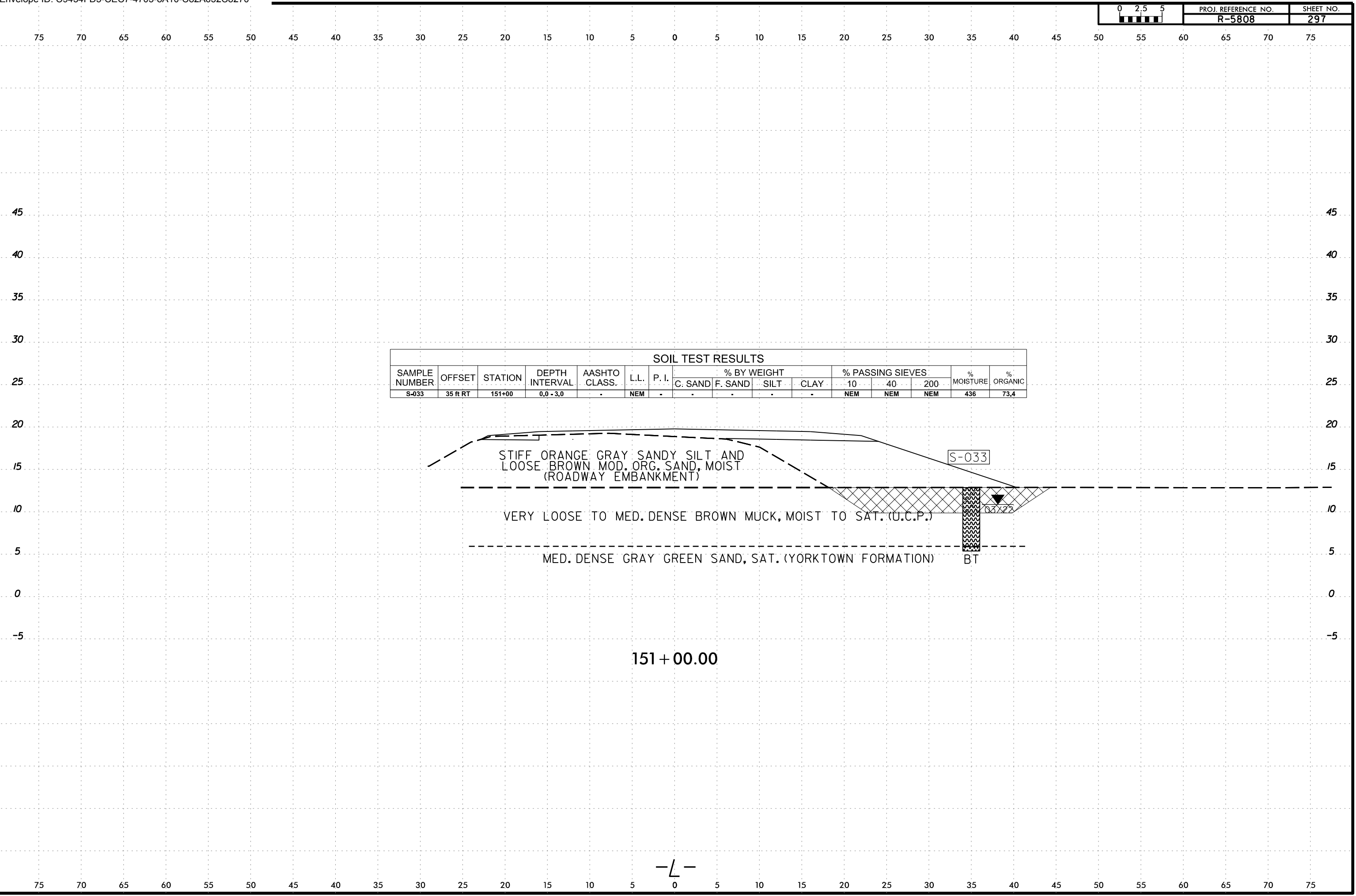


6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone





6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



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-033	35 ft RT	151+00	0.0 - 3.0	-	NEM	-	-	-	-	NEM	NEM	NEM	436	73.4	

STIFF ORANGE GRAY SANDY SILT AND  
LOOSE BROWN MOD. ORG. SAND, MOIST  
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

S-033

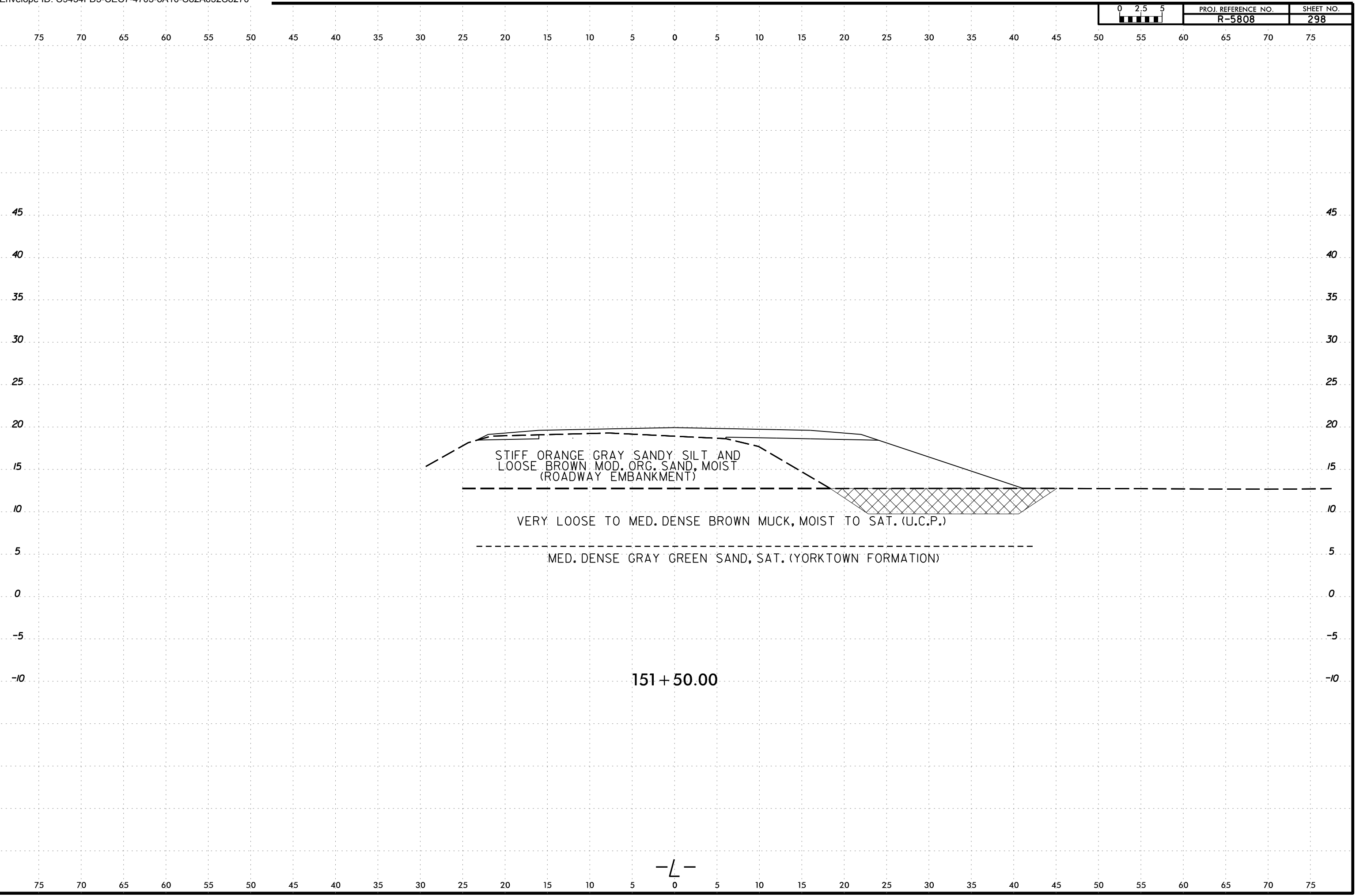
03'22"

BT

151 + 00.00

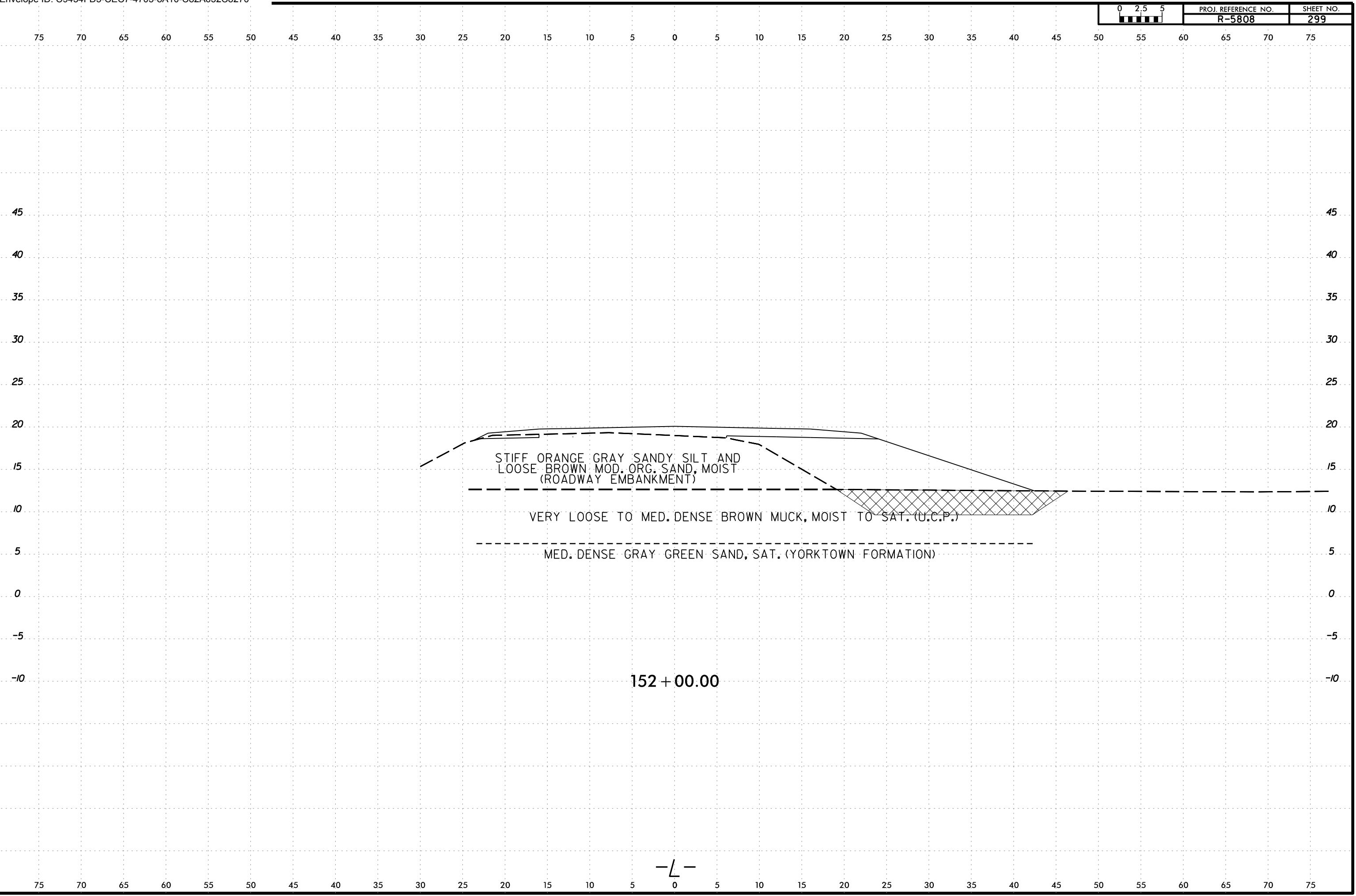
-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



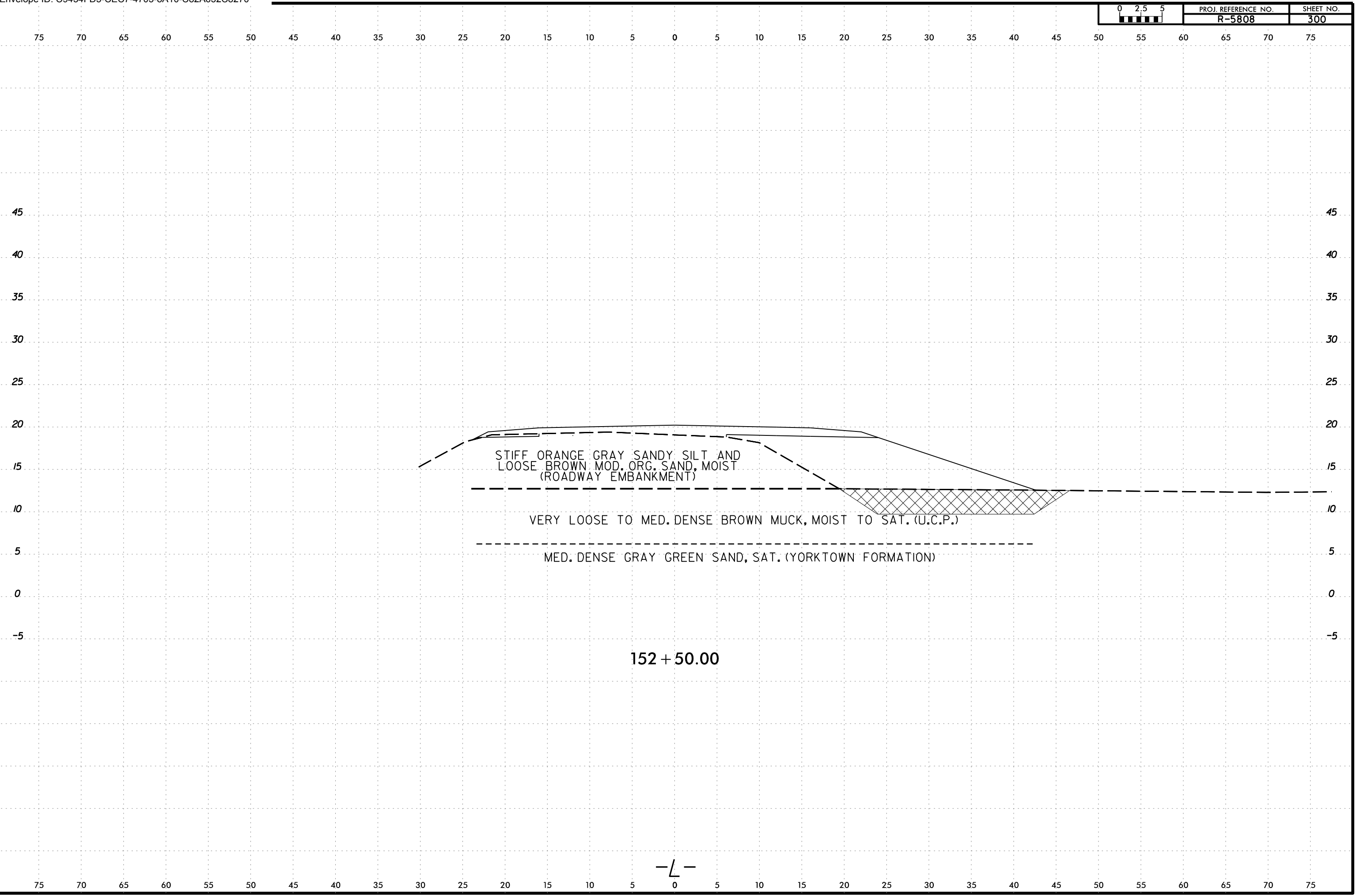
-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone

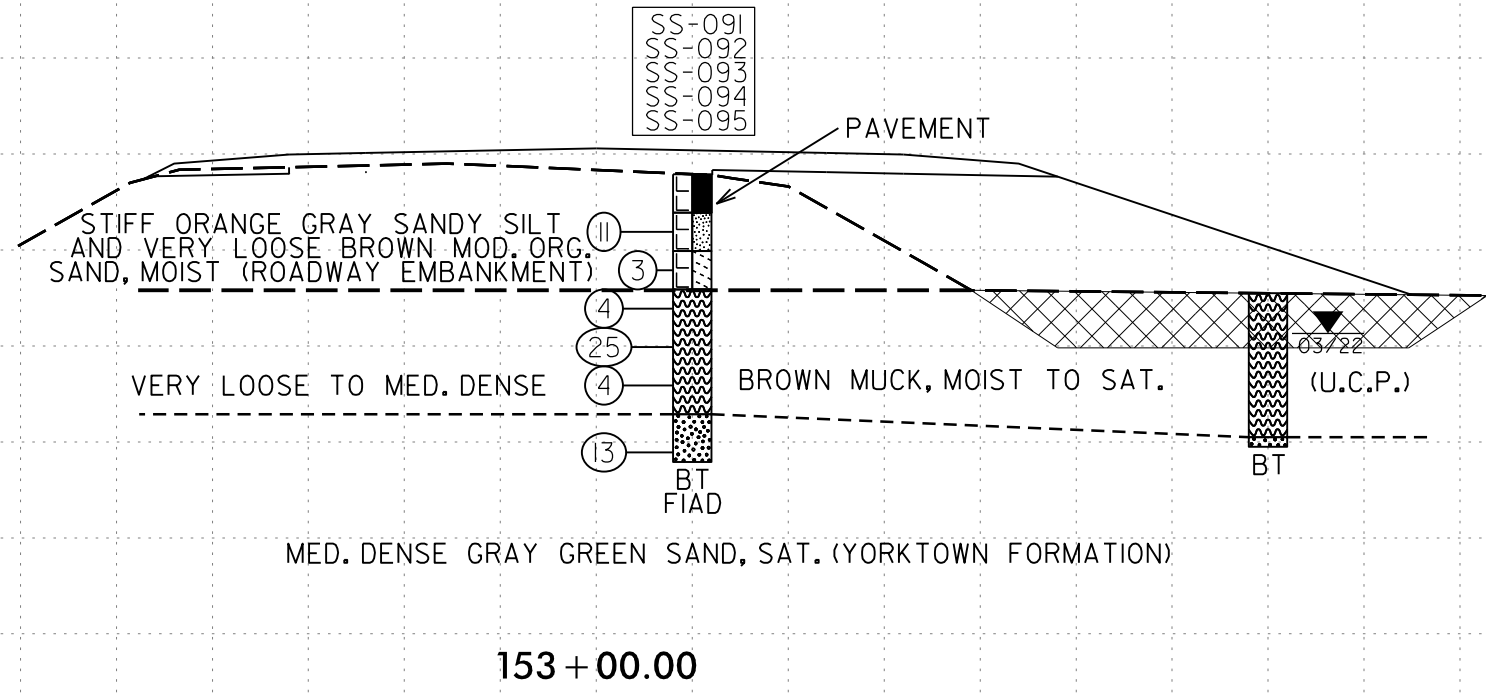


—L—

6/23/16  
2\MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone

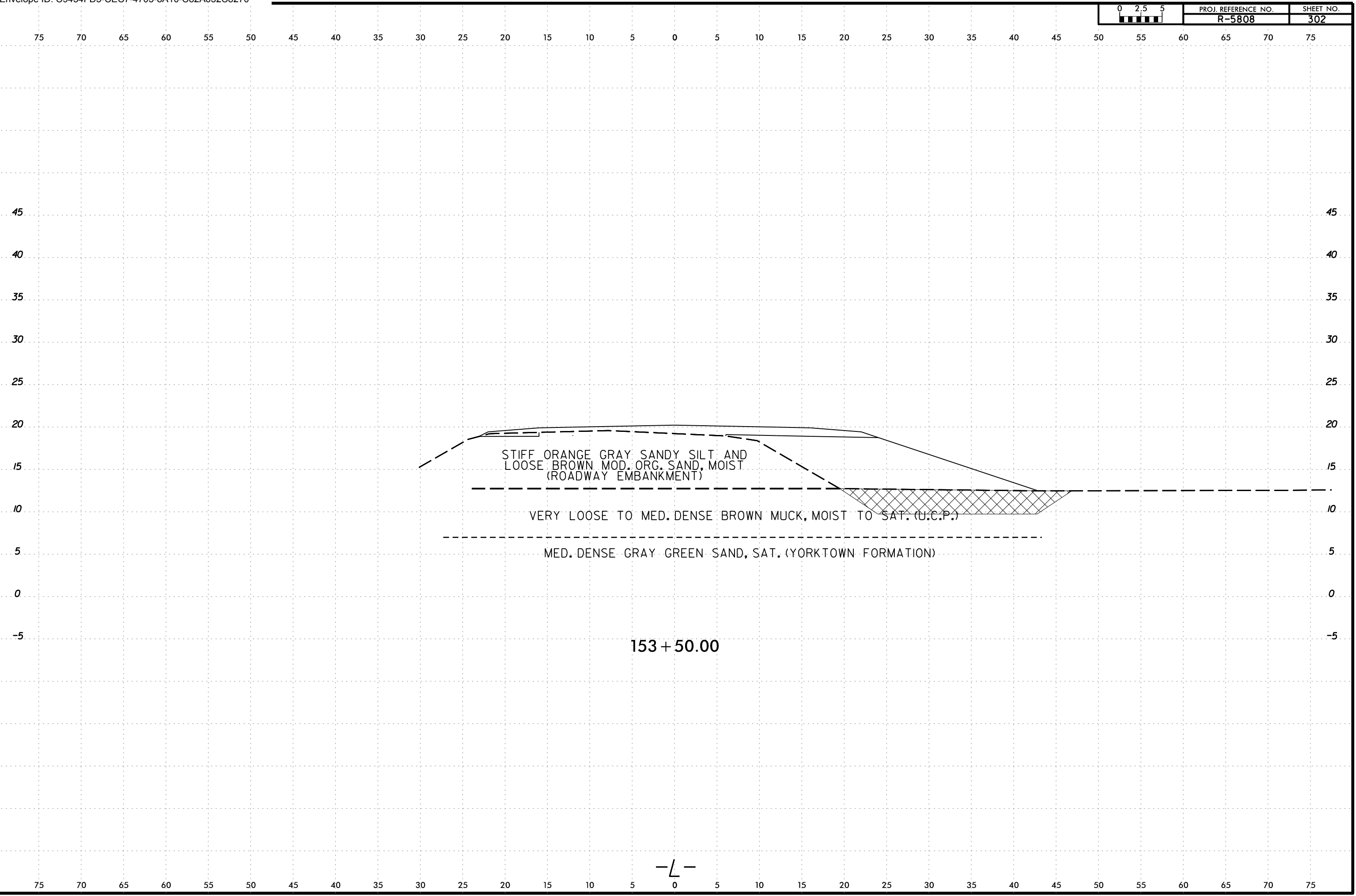


SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-091	35 ft RT	153+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.4	48.1	19.0	8.4	97.2	90	31	-	7.8
SS-092	35 ft RT	153+00	6.0 - 8.0	()	NEM	-	22.5	20.3	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	-	-

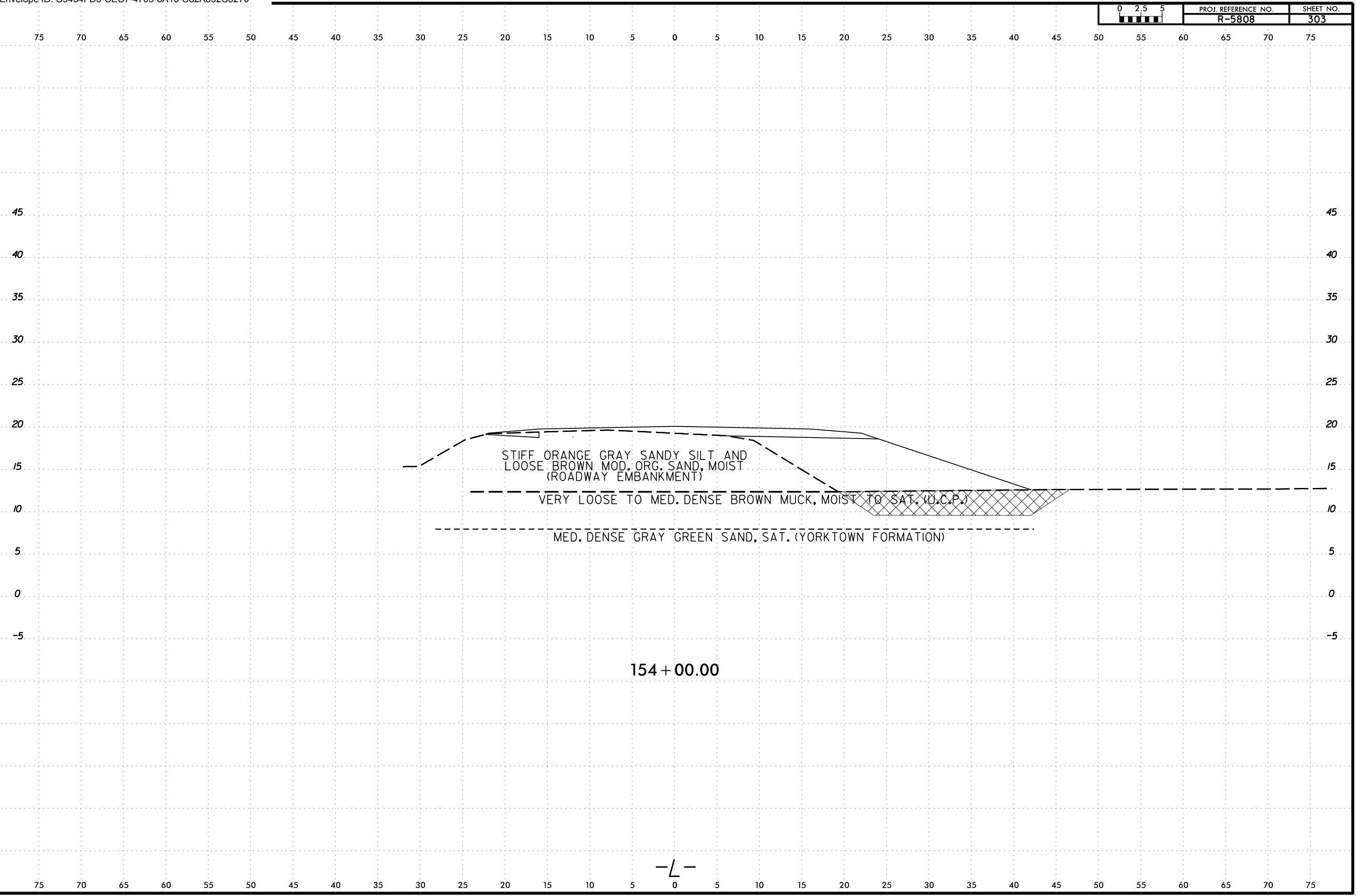


2-MAY-2024 16:52  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\15808\_GEO\RDWY\15808\_GEO\RDWY\CADD\GEO\TECH\SSC\15808\_GEO\_XSR\_2.dgn  
 jstone

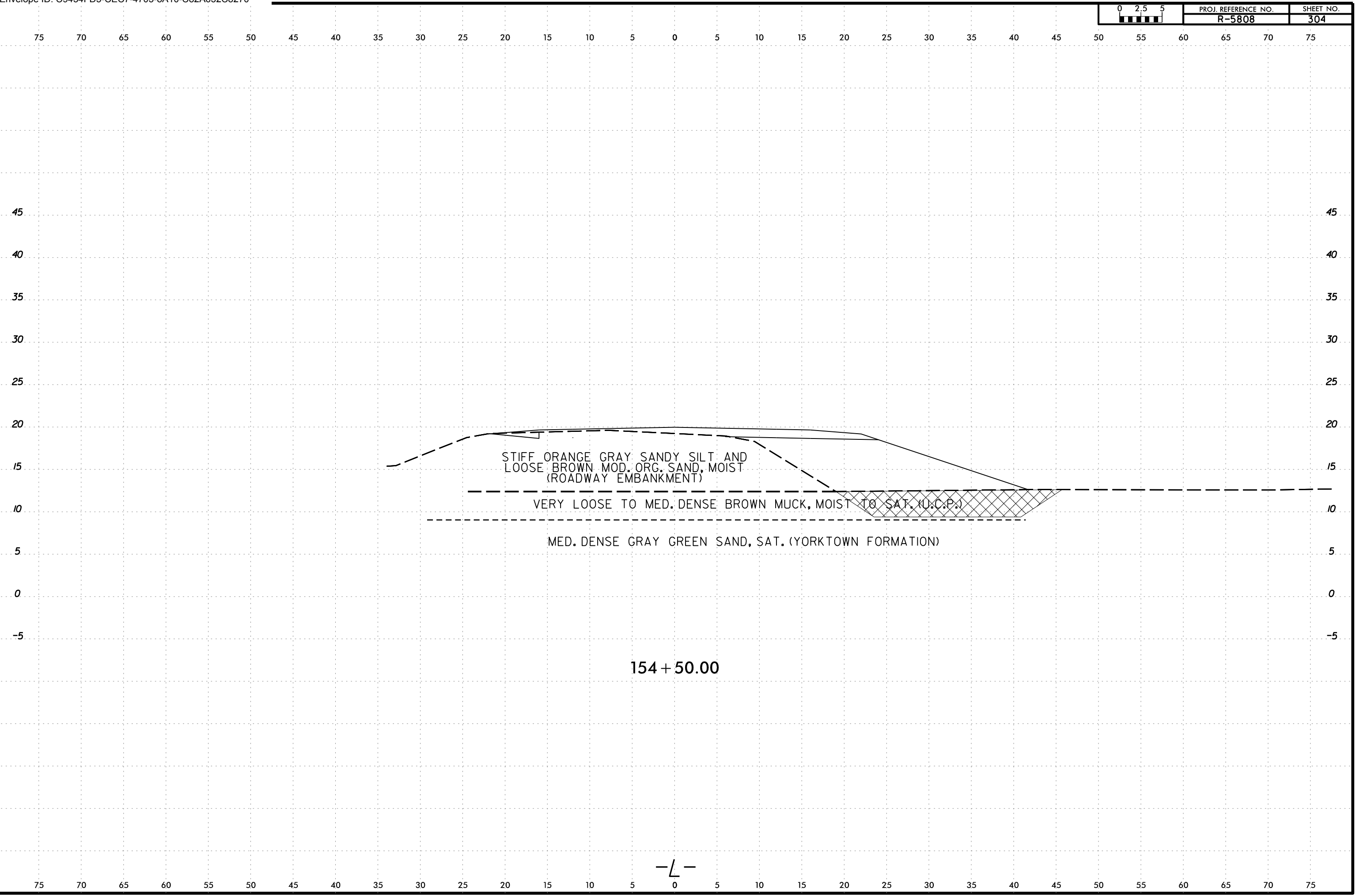
6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

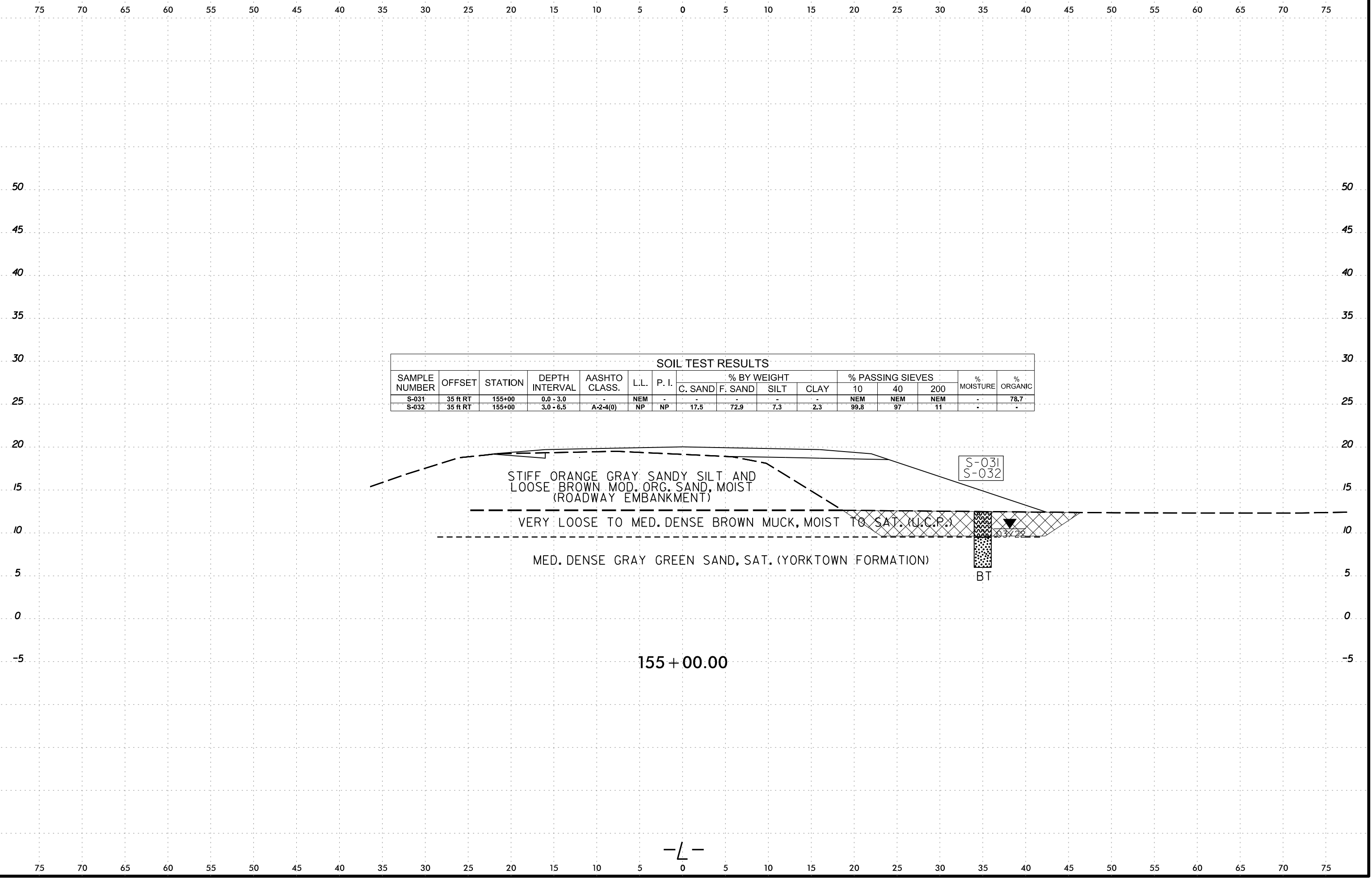


6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone





6/23/16  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
 21-MAY-2024 16:52  
 jstone

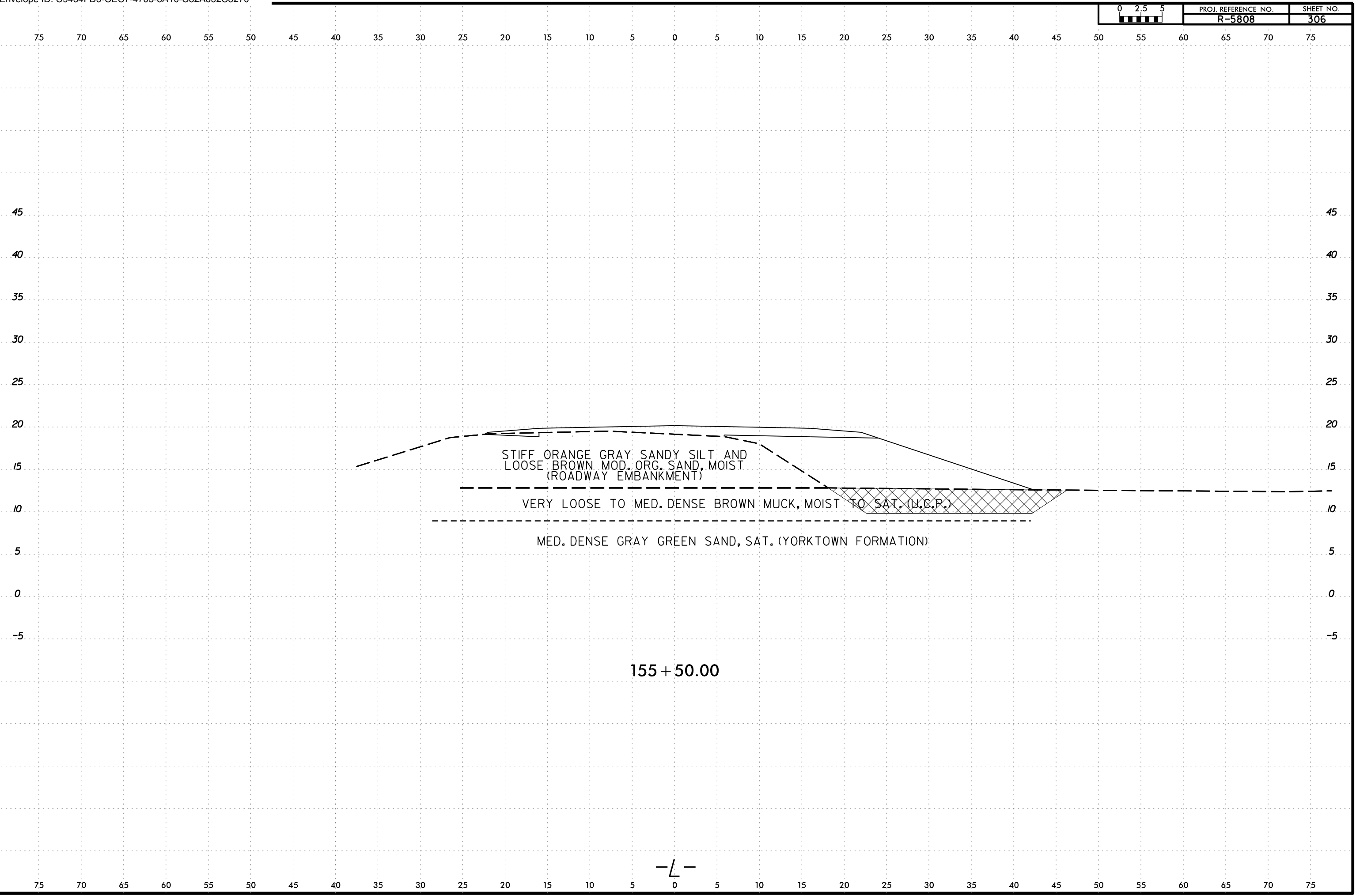


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-031	35 ft RT	155+00	0.0 - 3.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	78.7	
S-032	35 ft RT	155+00	3.0 - 6.5	A-2-4(0)	NP	NP	17.5	72.9	7.3	2.3	99.8	97	11	-	

155 + 00.00

-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 45

40 40

35 35

30 30

25 25

20 20

15 15

10 10

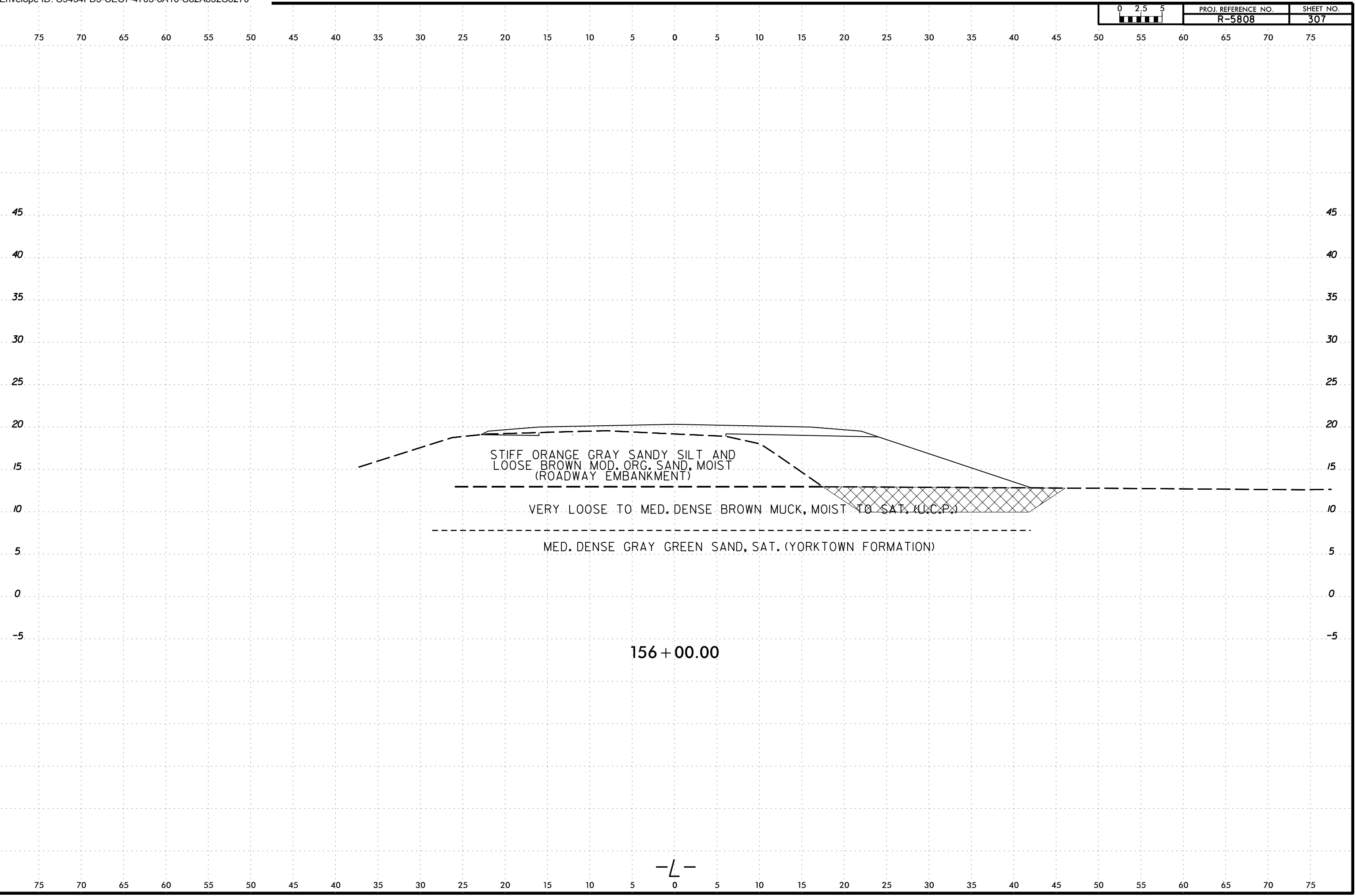
5 5

0 0

-5 -5

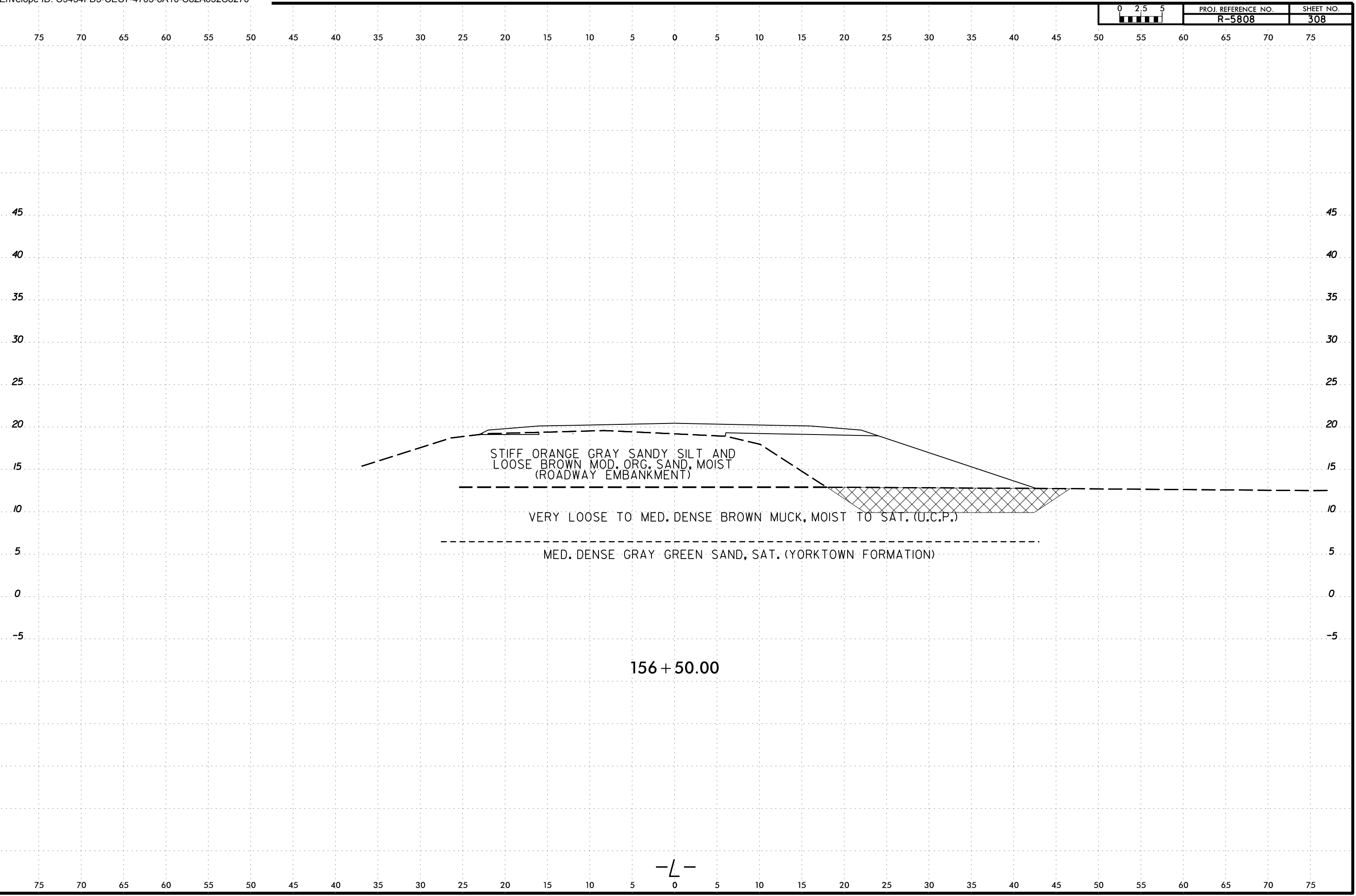
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16  
2\MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

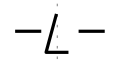


-L-

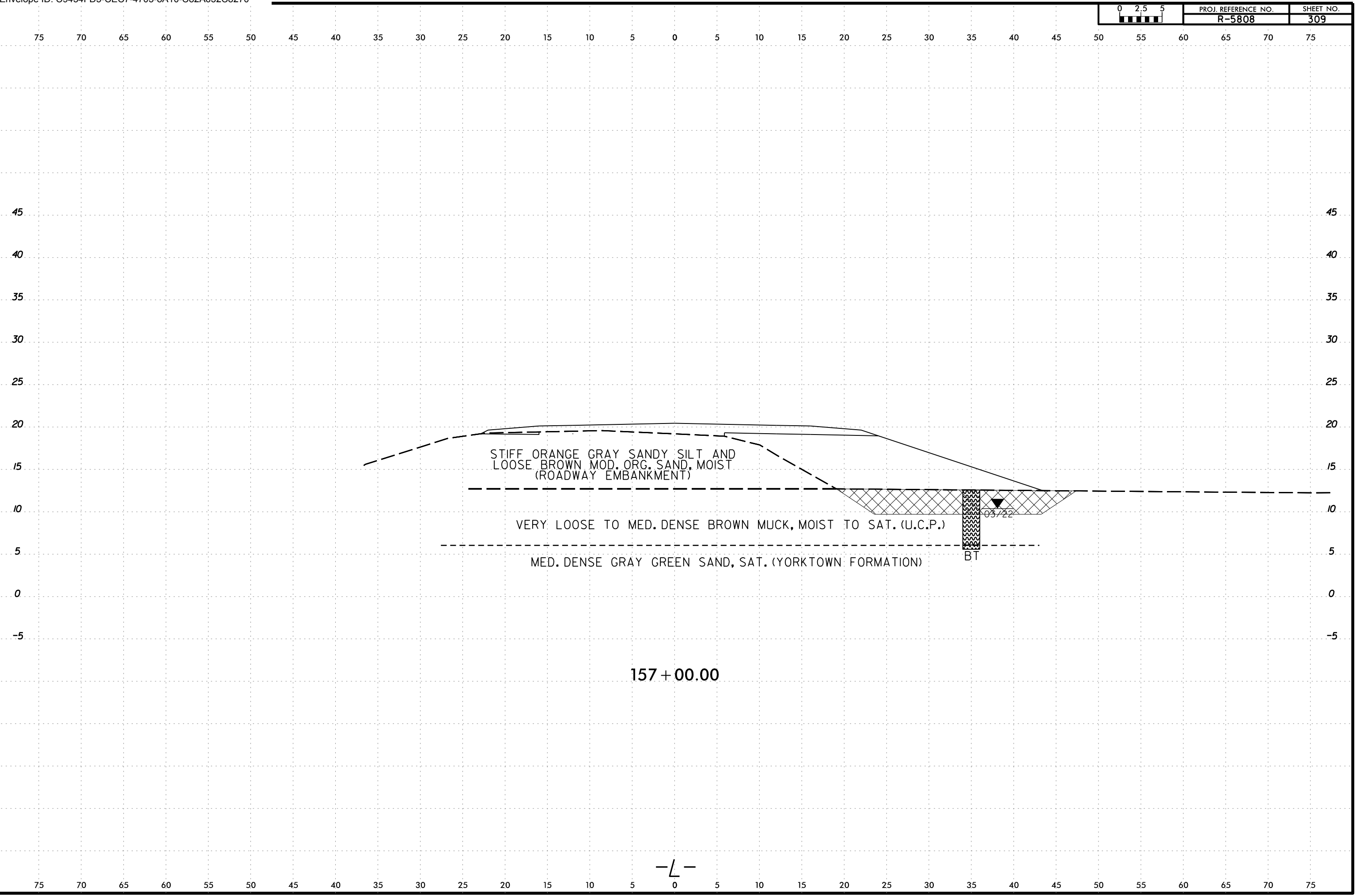
6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



156 + 50.00

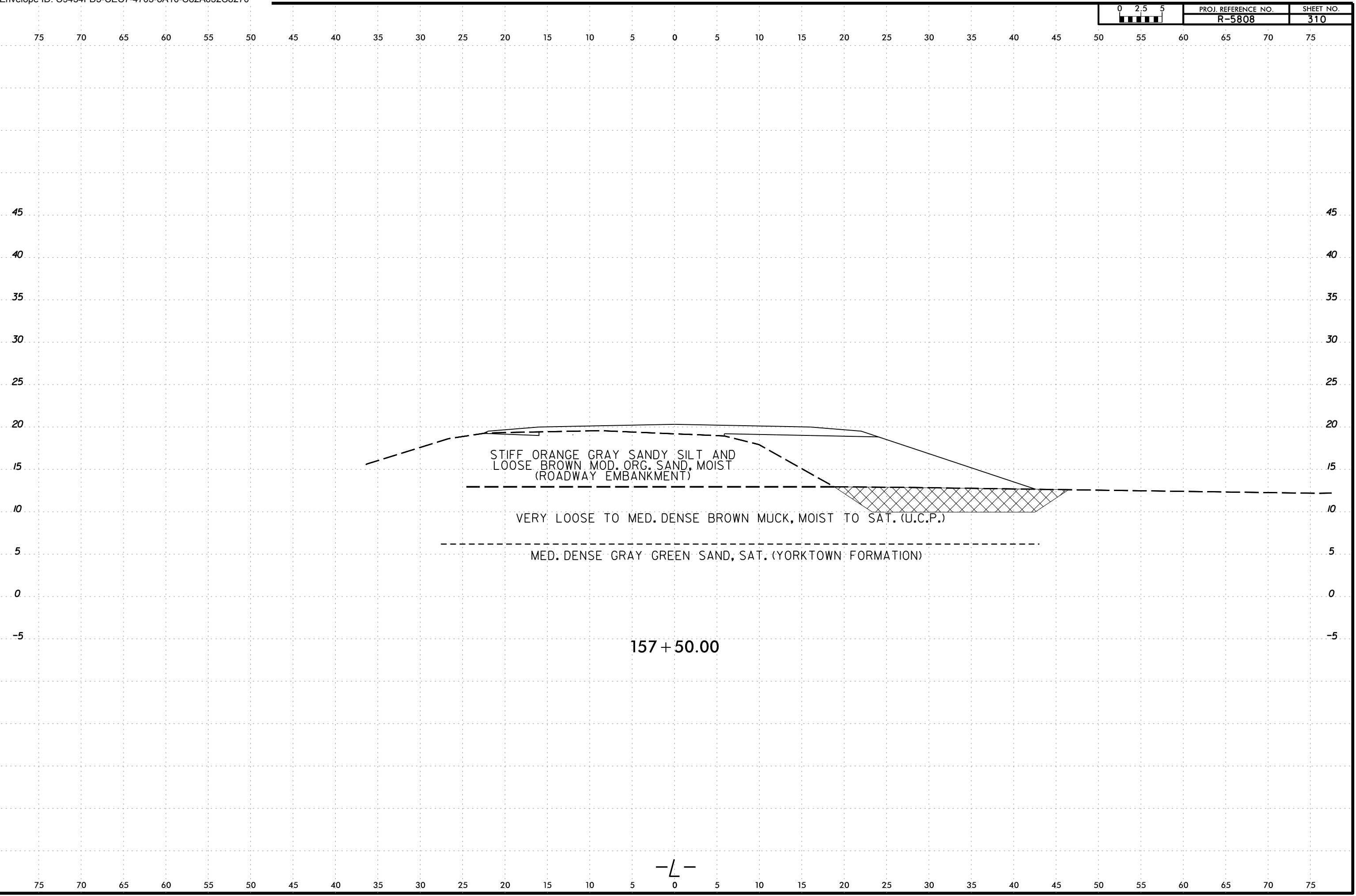


6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone

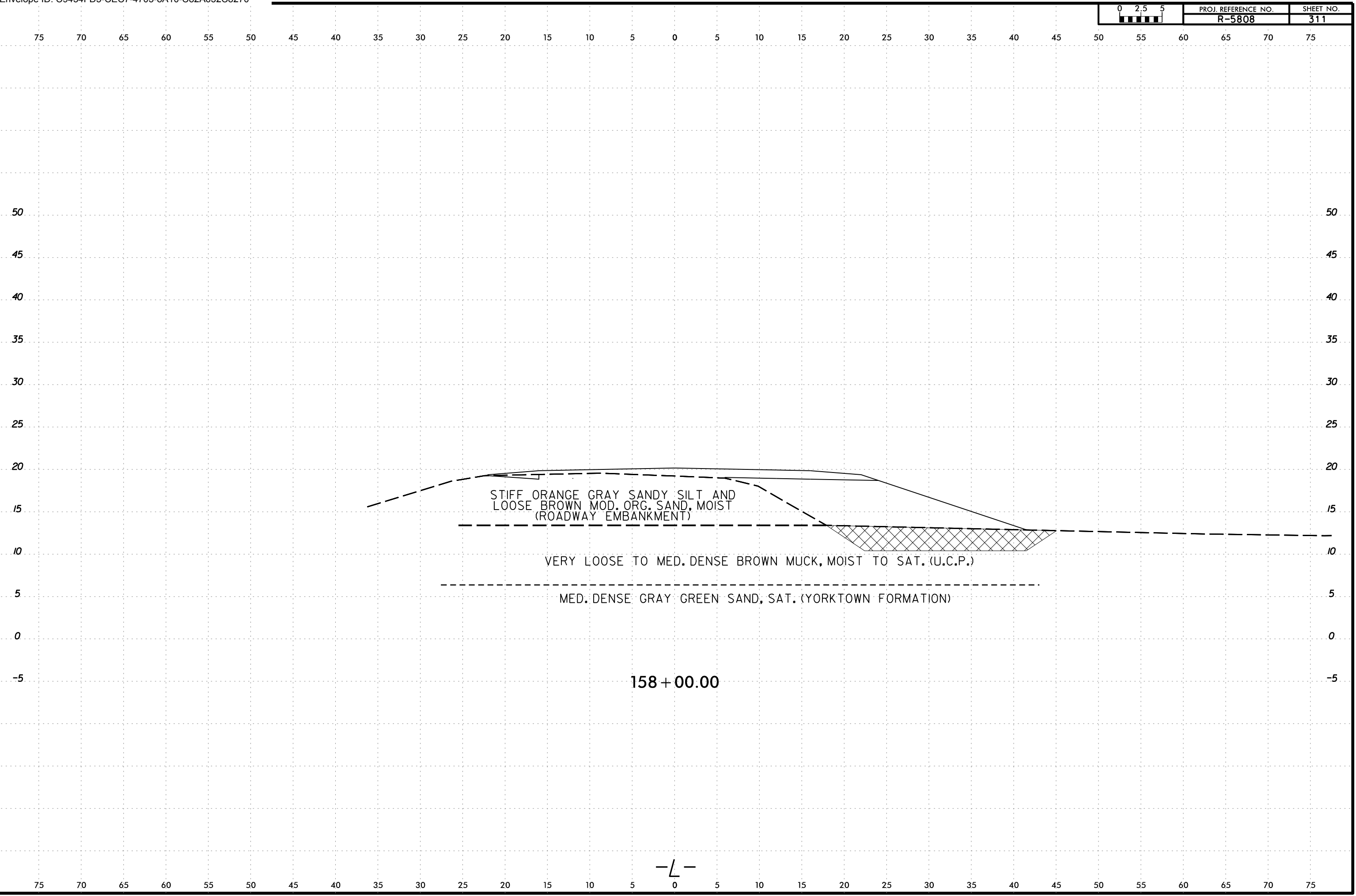


-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone

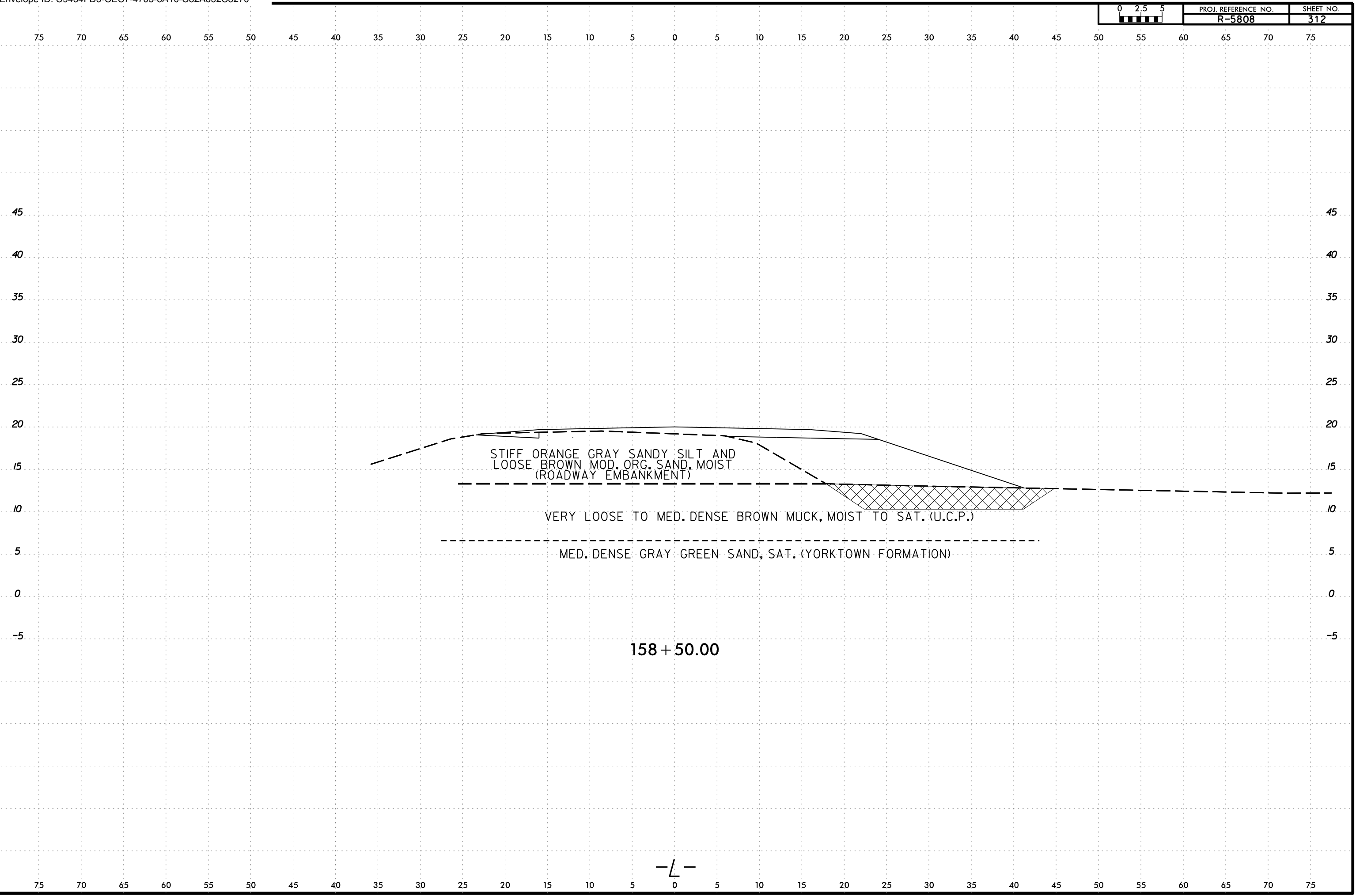


6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



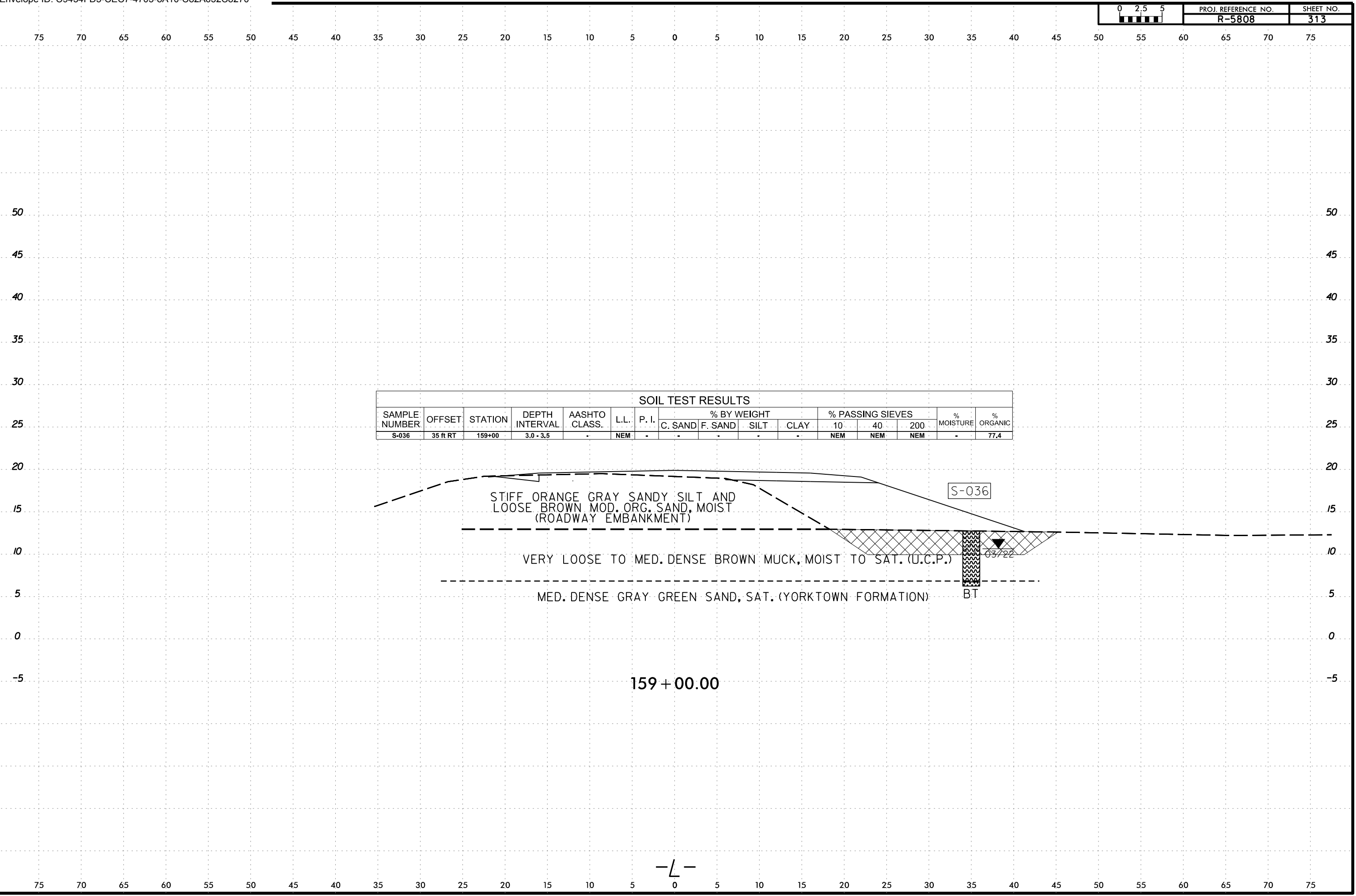
-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone





6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone



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-036	35 ft RT	159+00	3.0 - 3.5	-	NEM	-	-	-	-	NEM	NEM	NEM	-	77.4	

STIFF ORANGE GRAY SANDY SILT AND  
LOOSE BROWN MOD. ORG. SAND, MOIST  
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

S-036

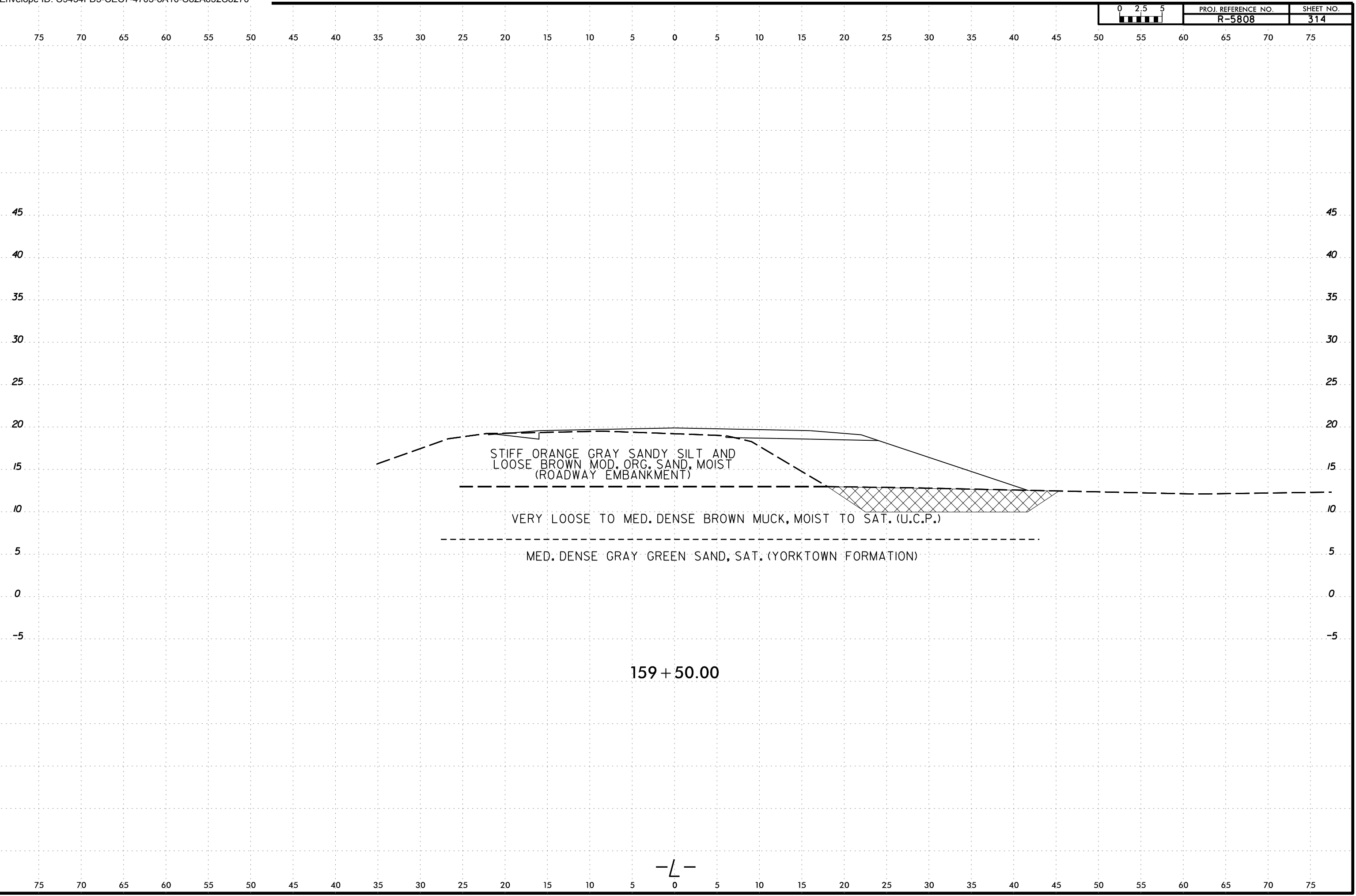
10.37

BT

159 + 00.00

-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone

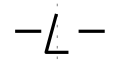


STIFF ORANGE GRAY SANDY SILT AND  
LOOSE BROWN MOD. ORG. SAND, MOIST  
(ROADWAY EMBANKMENT)

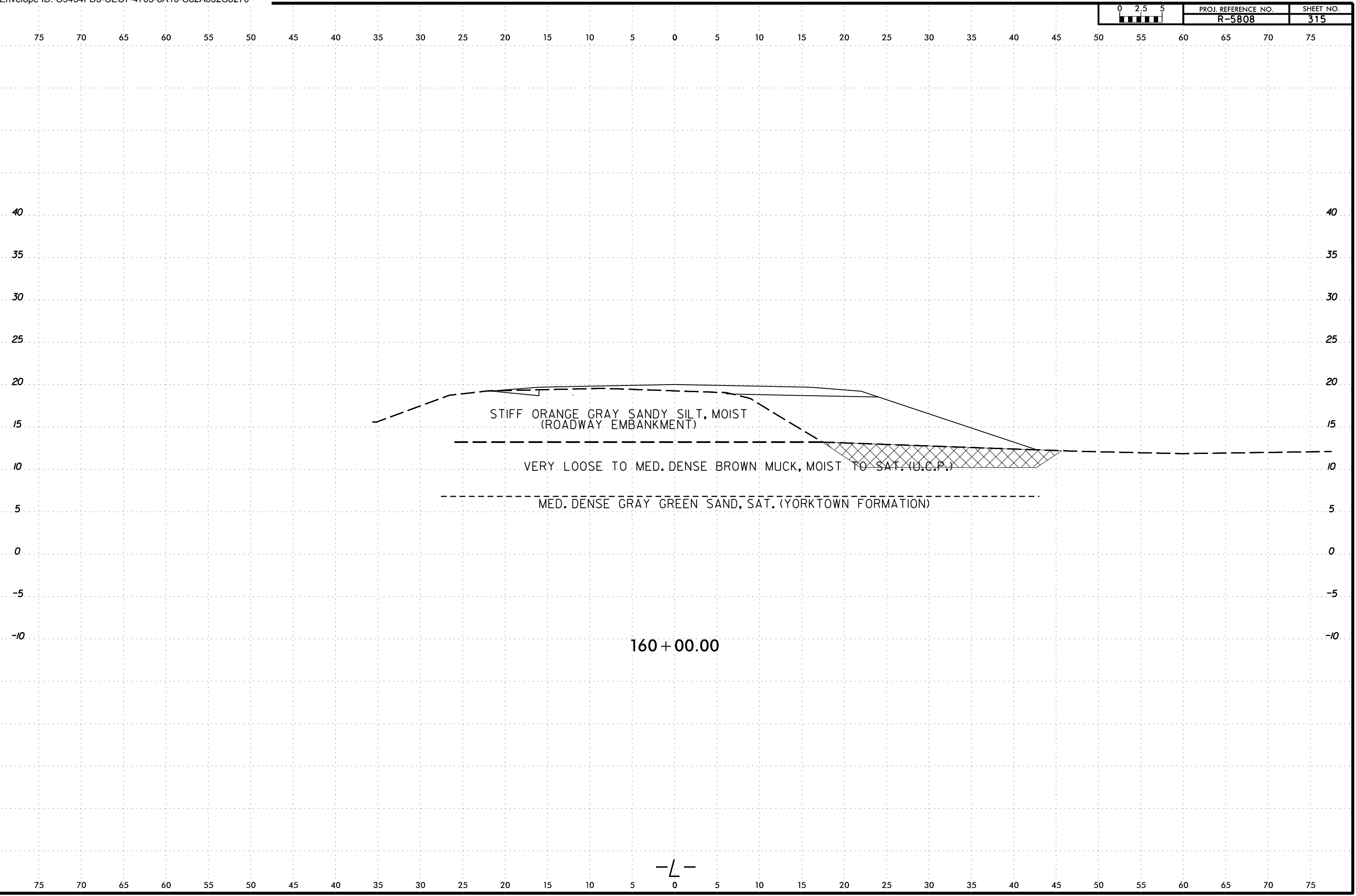
VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

159 + 50.00

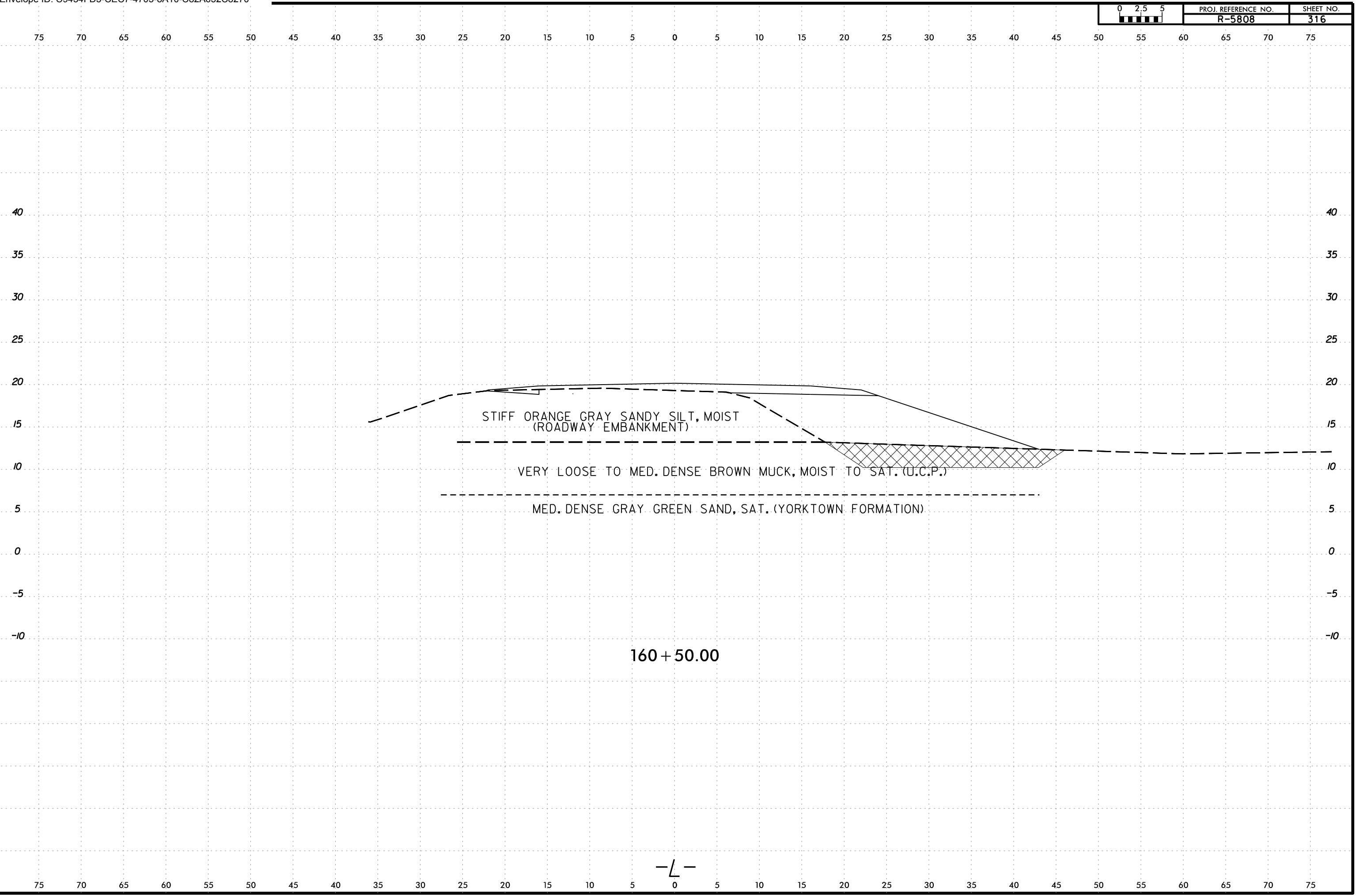


6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



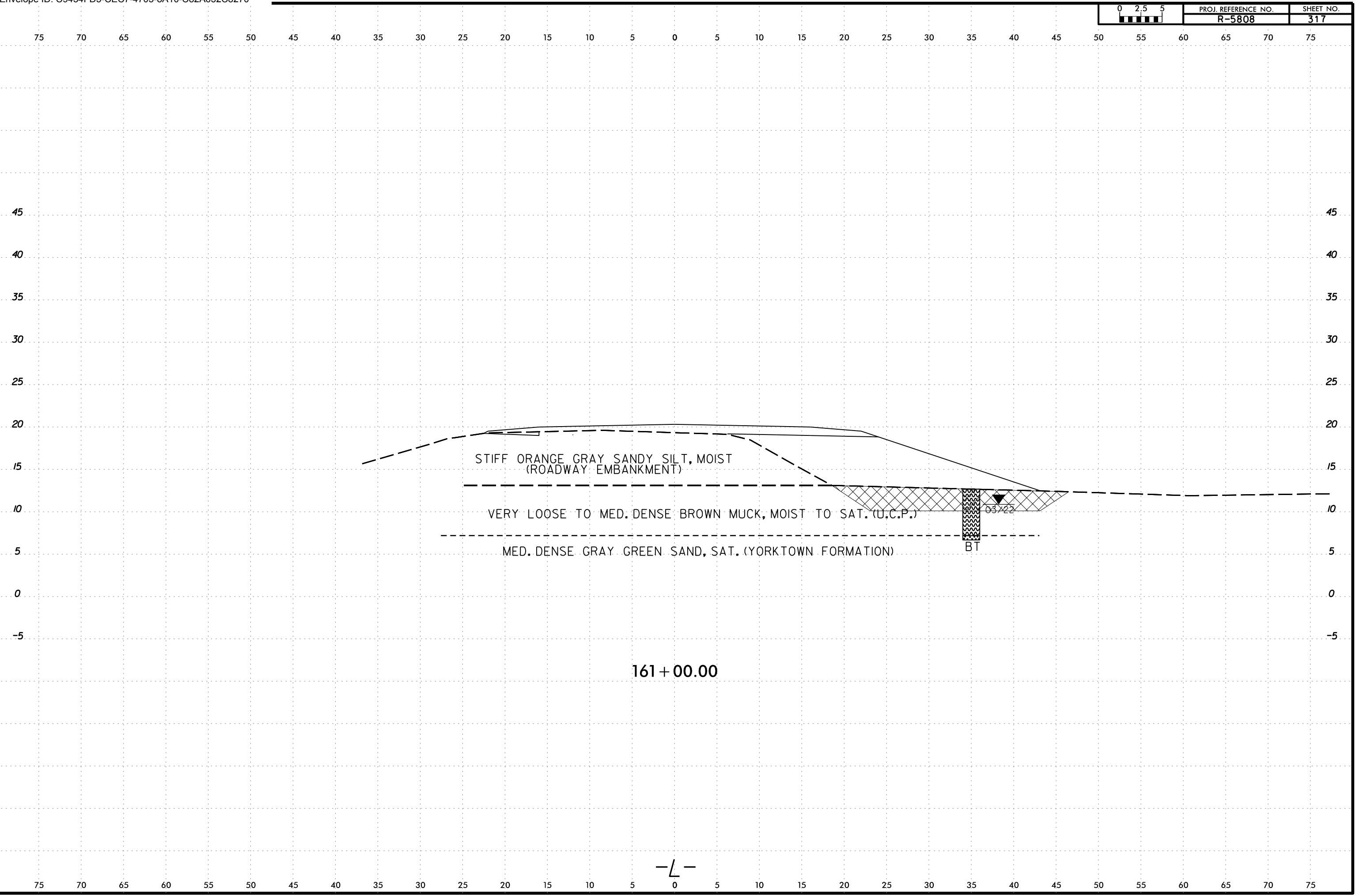
-L-

6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\RDWY\XSR\_2.dgn  
jstone

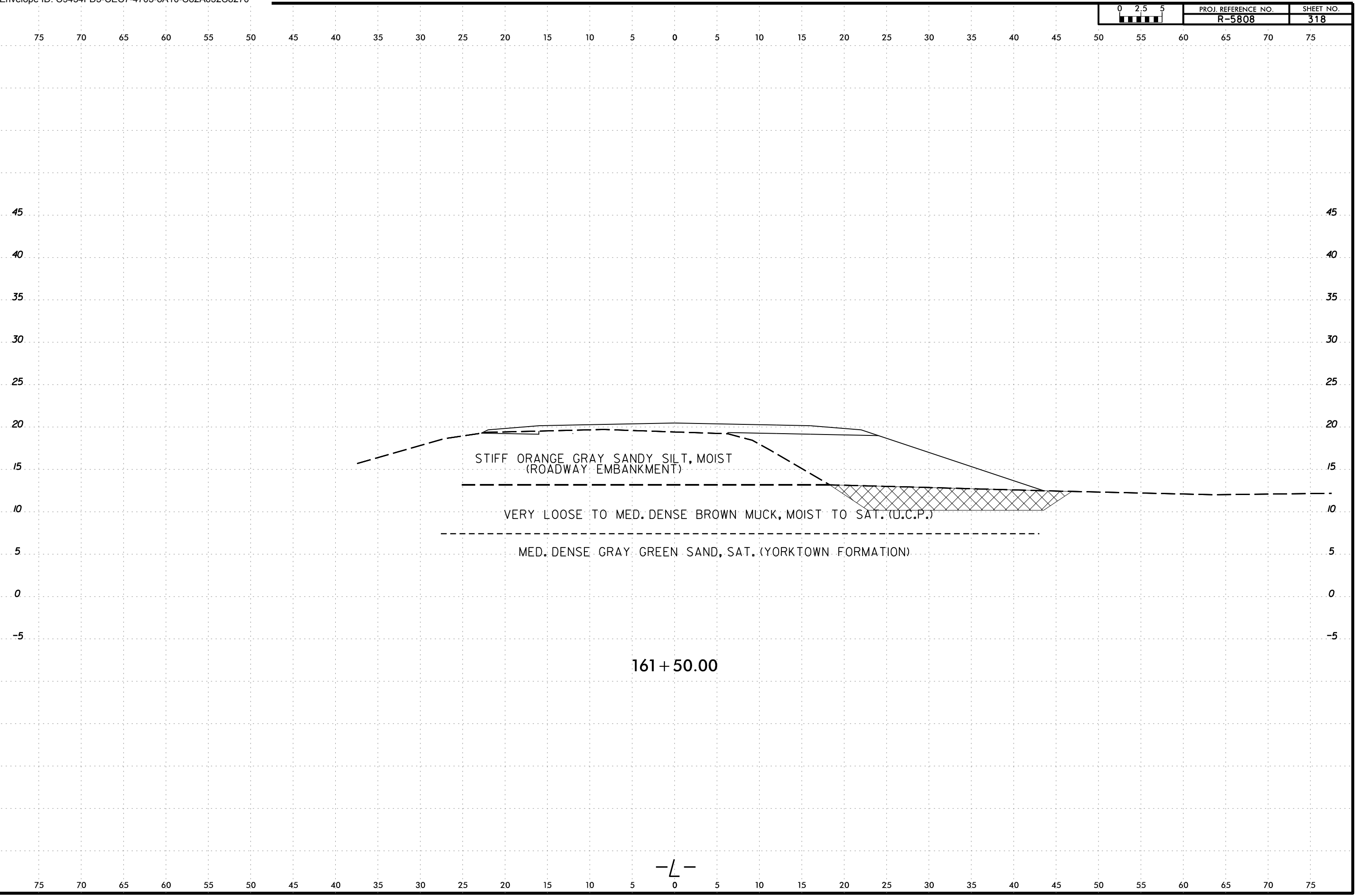


-L-

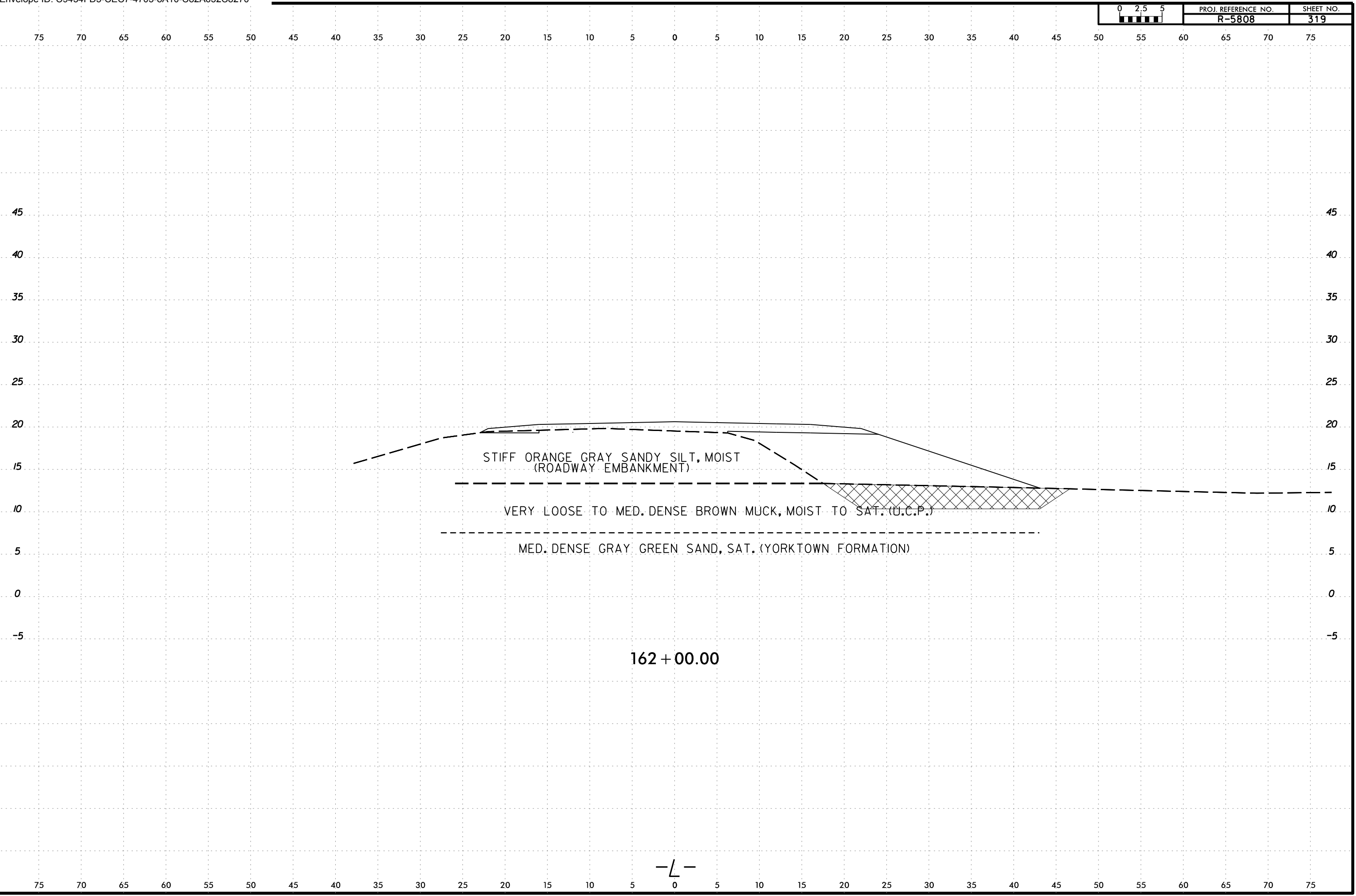
6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone



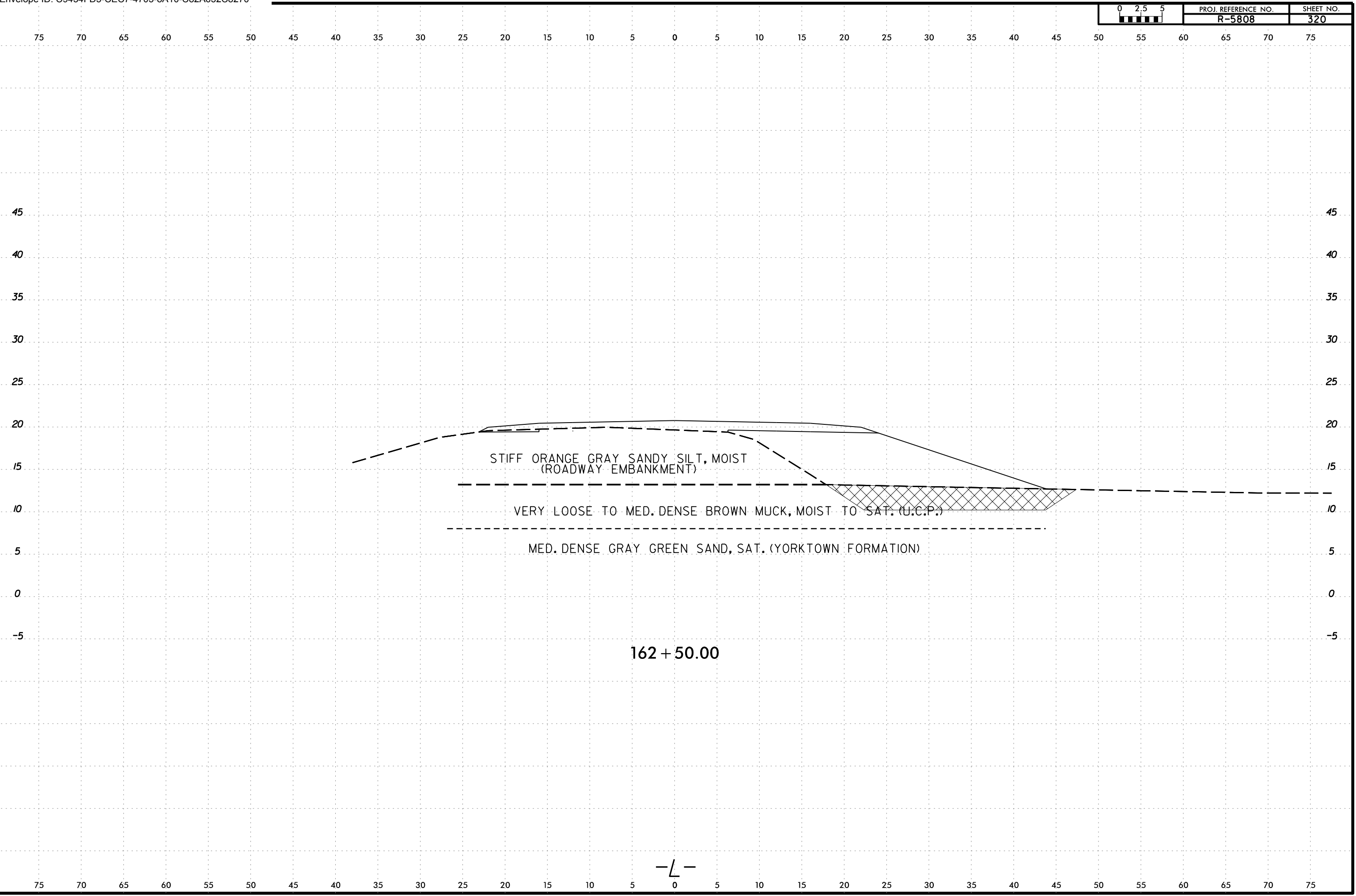
6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

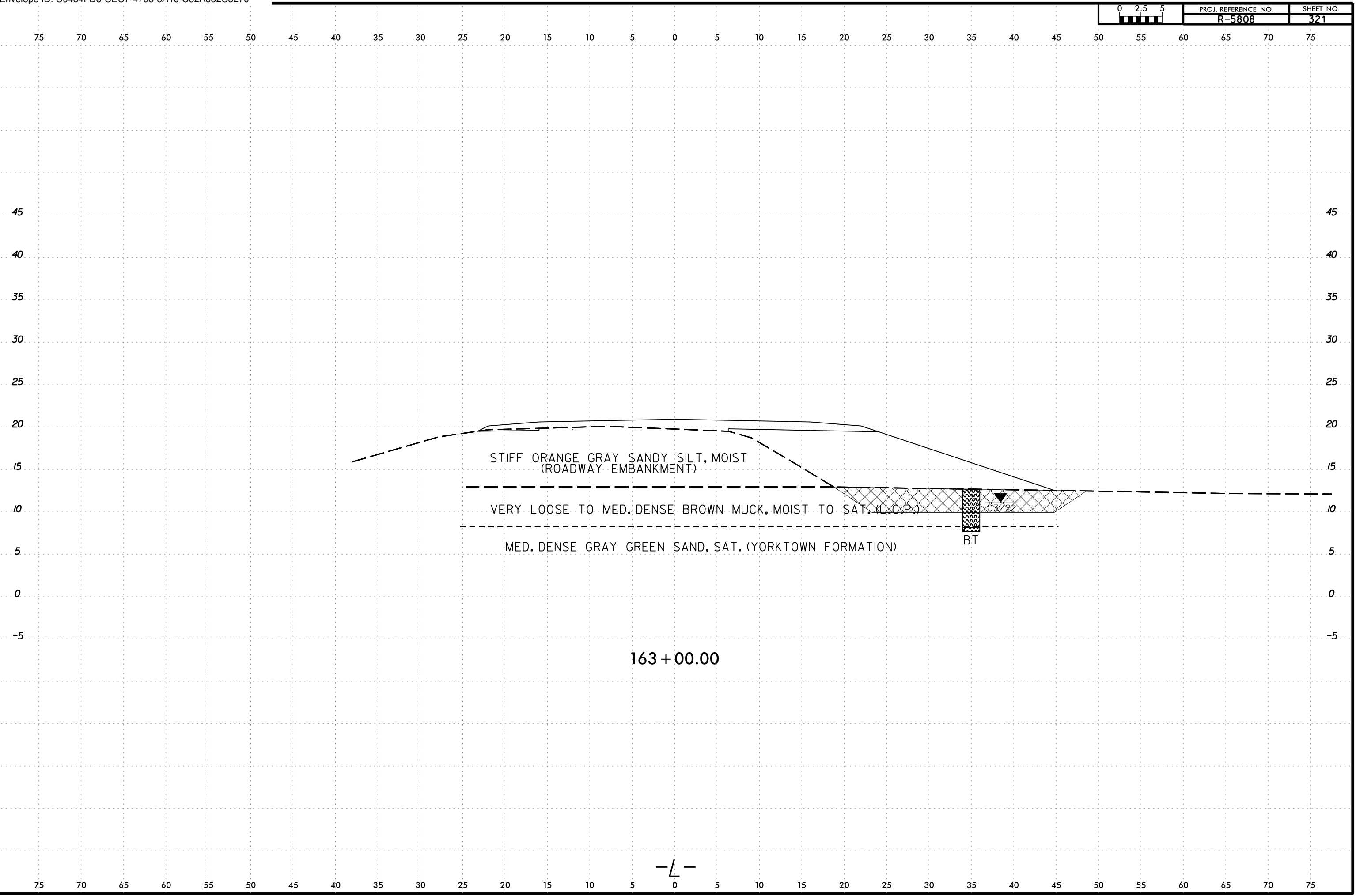


6/23/16  
2\MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18





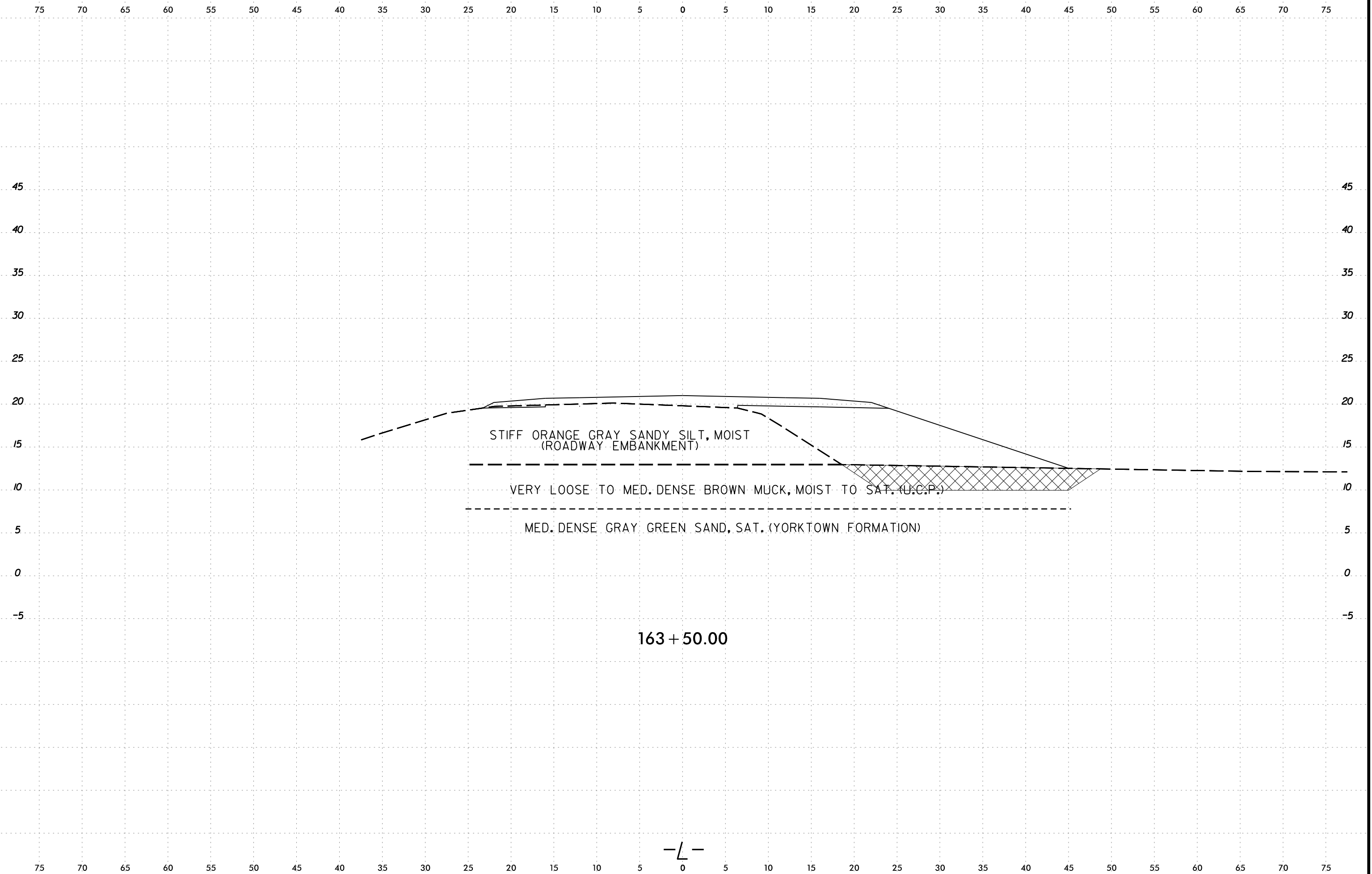
6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone



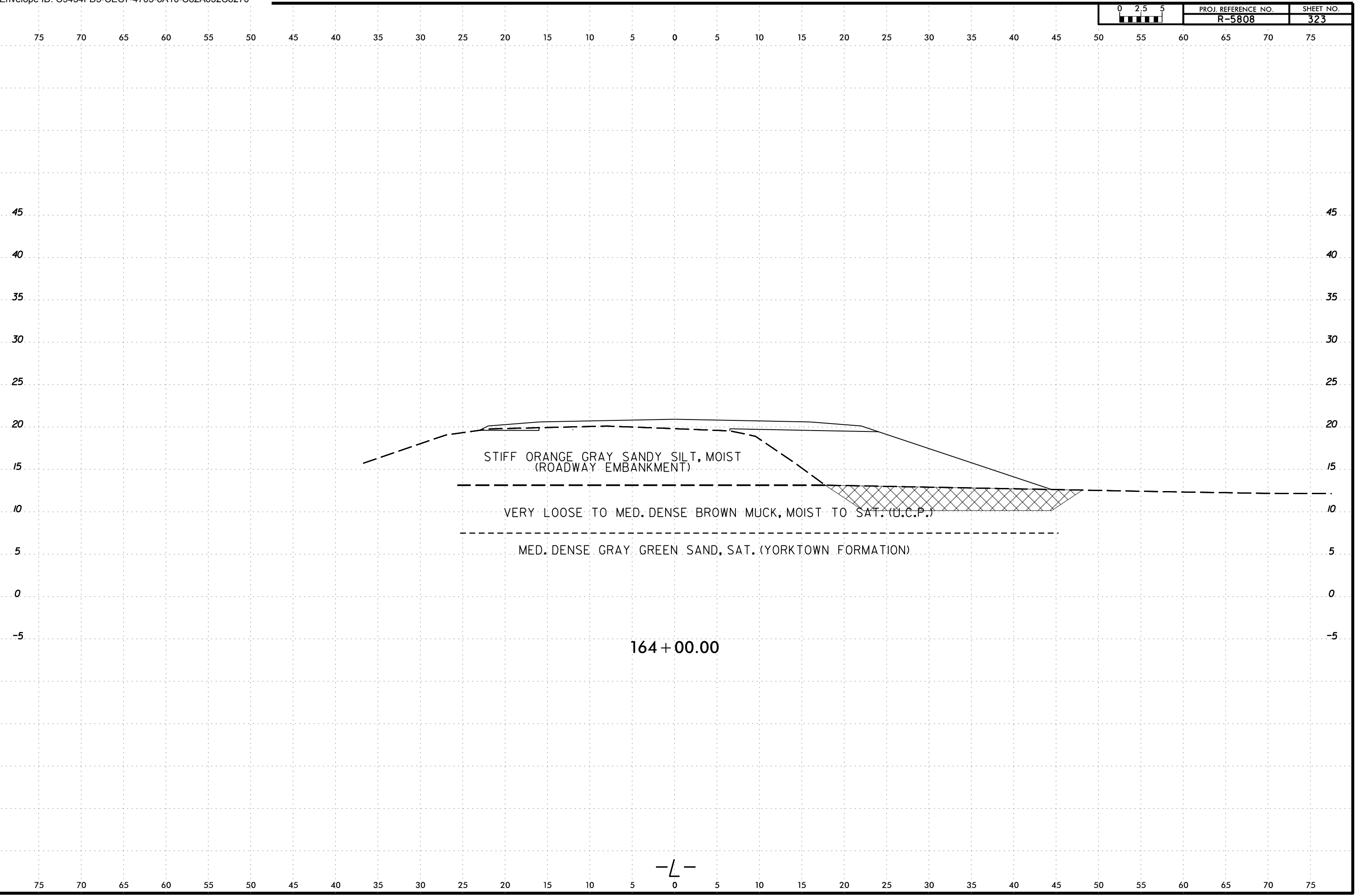
-L-

6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	322



6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



STIFF ORANGE GRAY SANDY SILT, MOIST  
(ROADWAY EMBANKMENT)

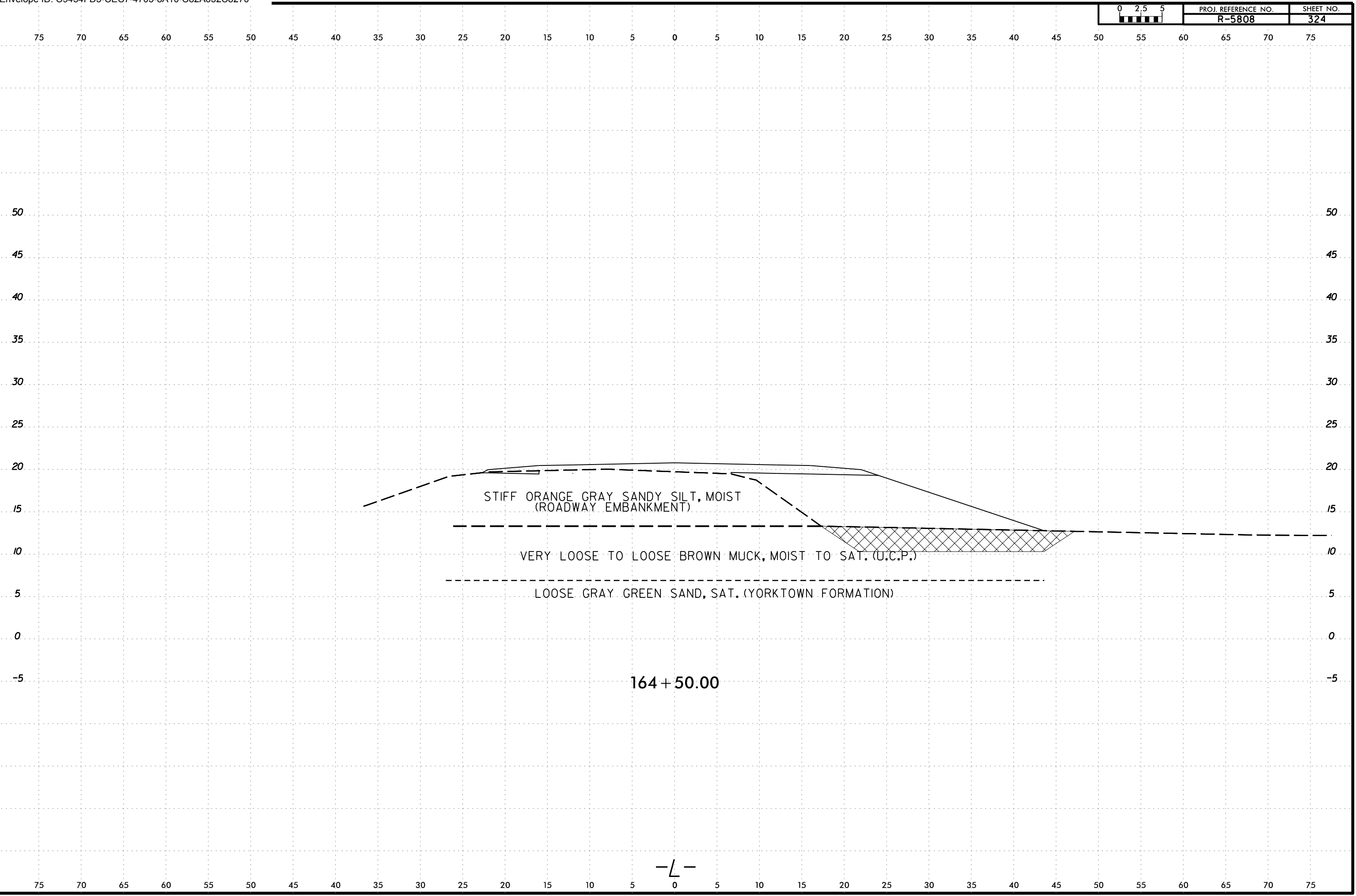
VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

164 + 00.00

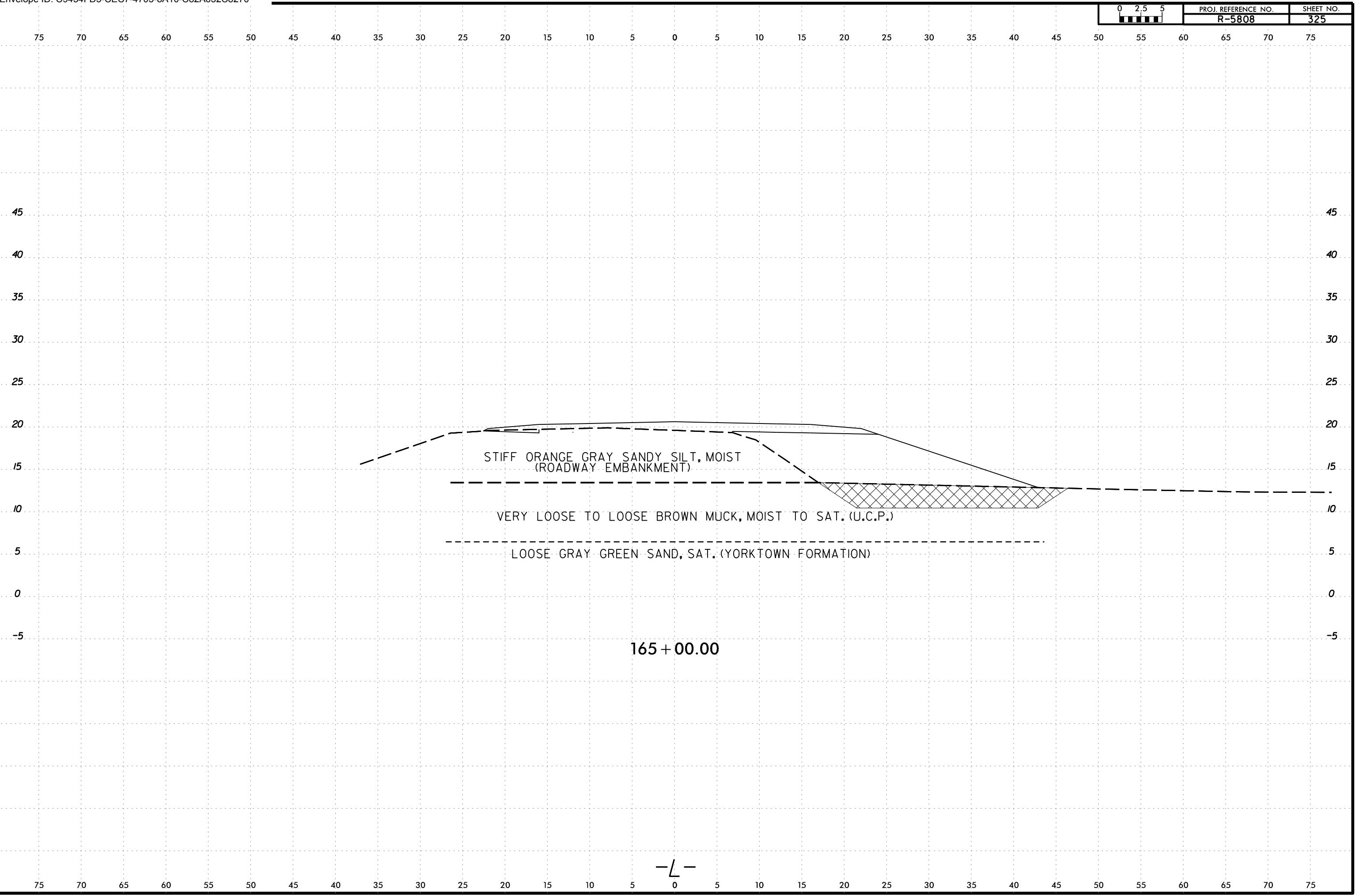
-L-

6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_GEO\_XSR\_2.dgn  
jstone

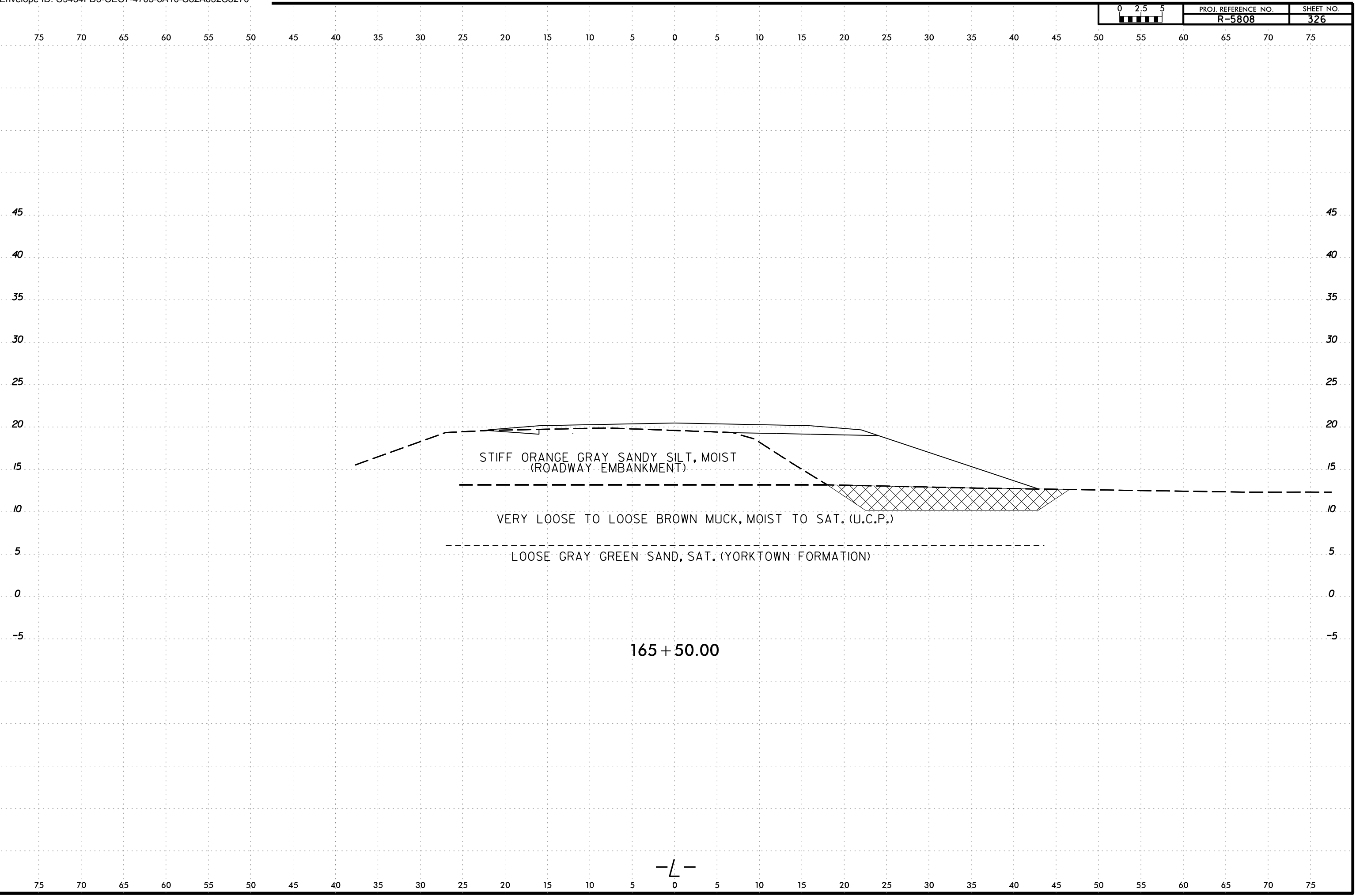


-L-

6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

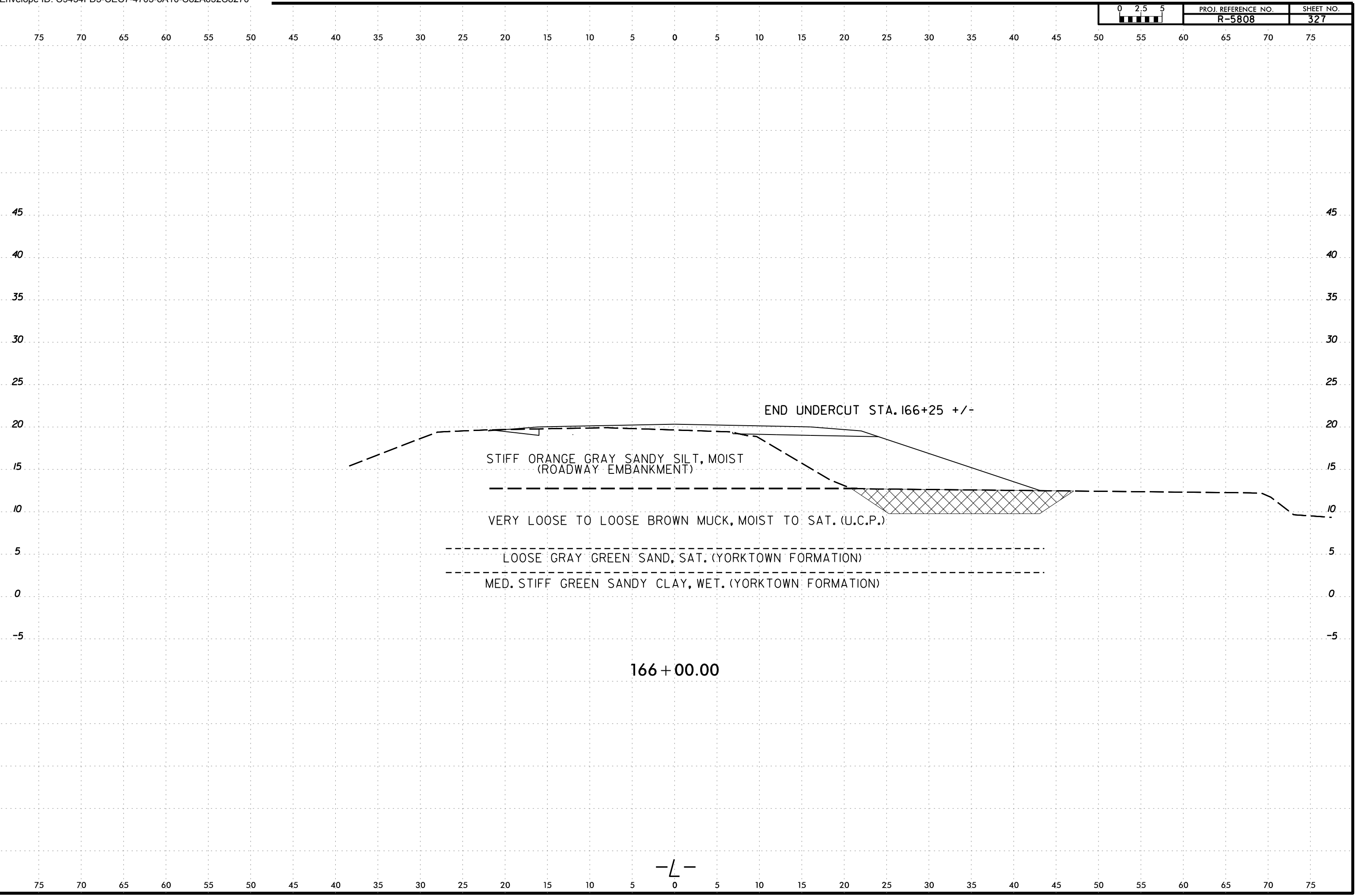


6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



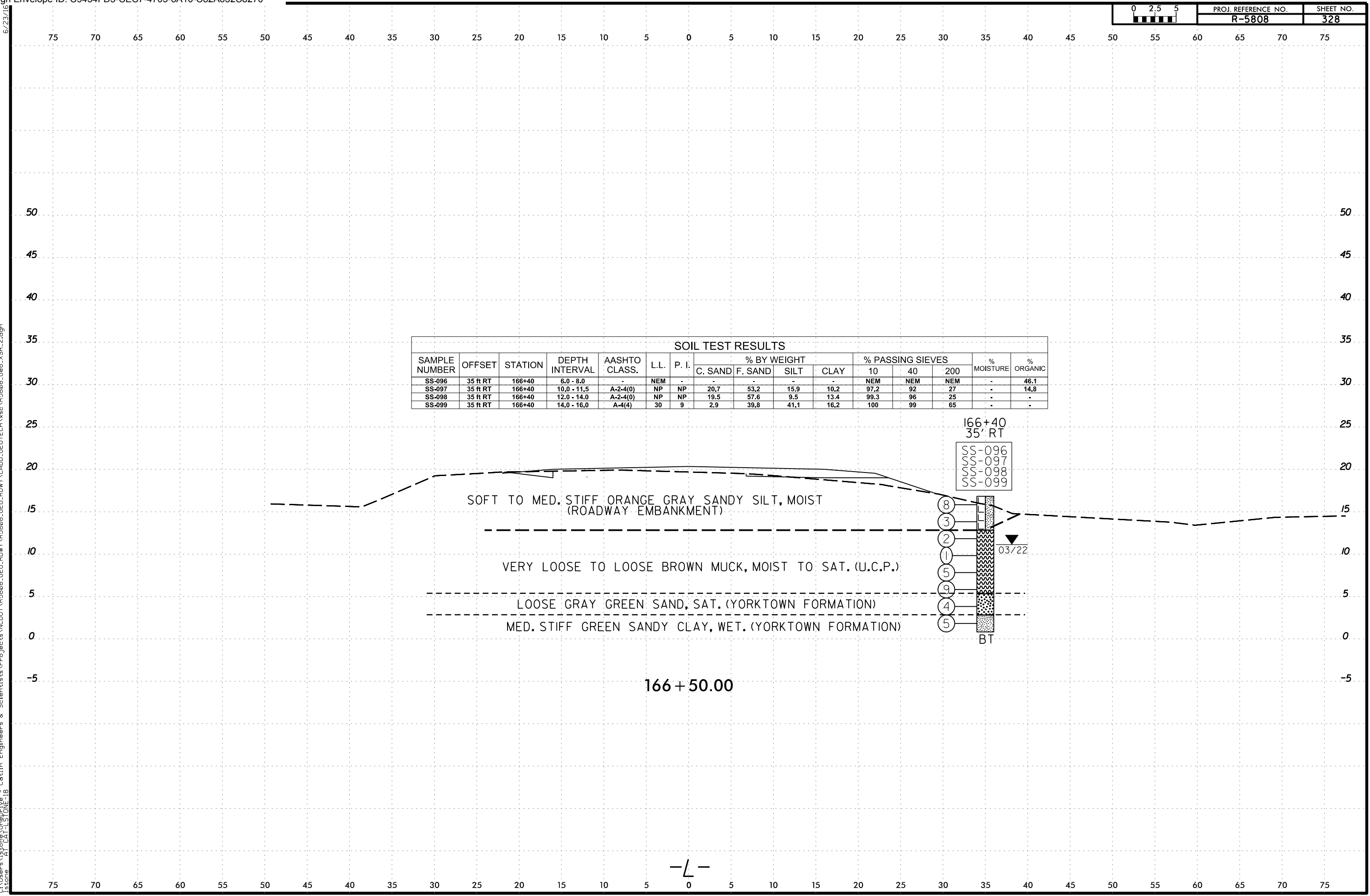
-L-

6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone



—L—

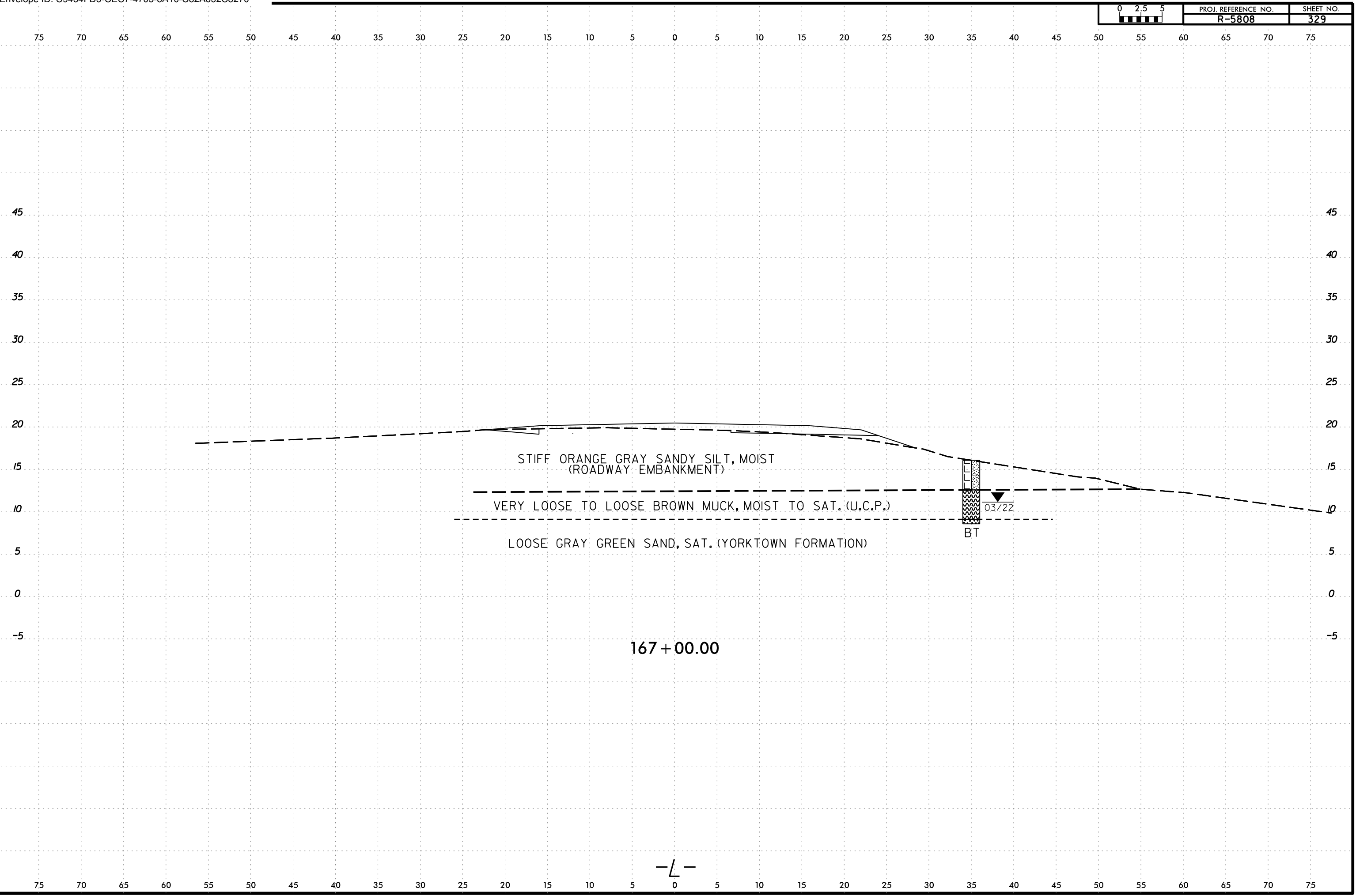
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-096	35 ft RT	166+40	6.0 - 8.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	46.1	
SS-097	35 ft RT	166+40	10.0 - 11.5	A-2-4(0)	NP	NP	20.7	53.2	15.9	10.2	97.2	92	27	14.8	
SS-098	35 ft 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 ft RT	166+40	14.0 - 16.0	A-4(4)	30	9	2.9	39.8	41.1	16.2	100	99	65	-	



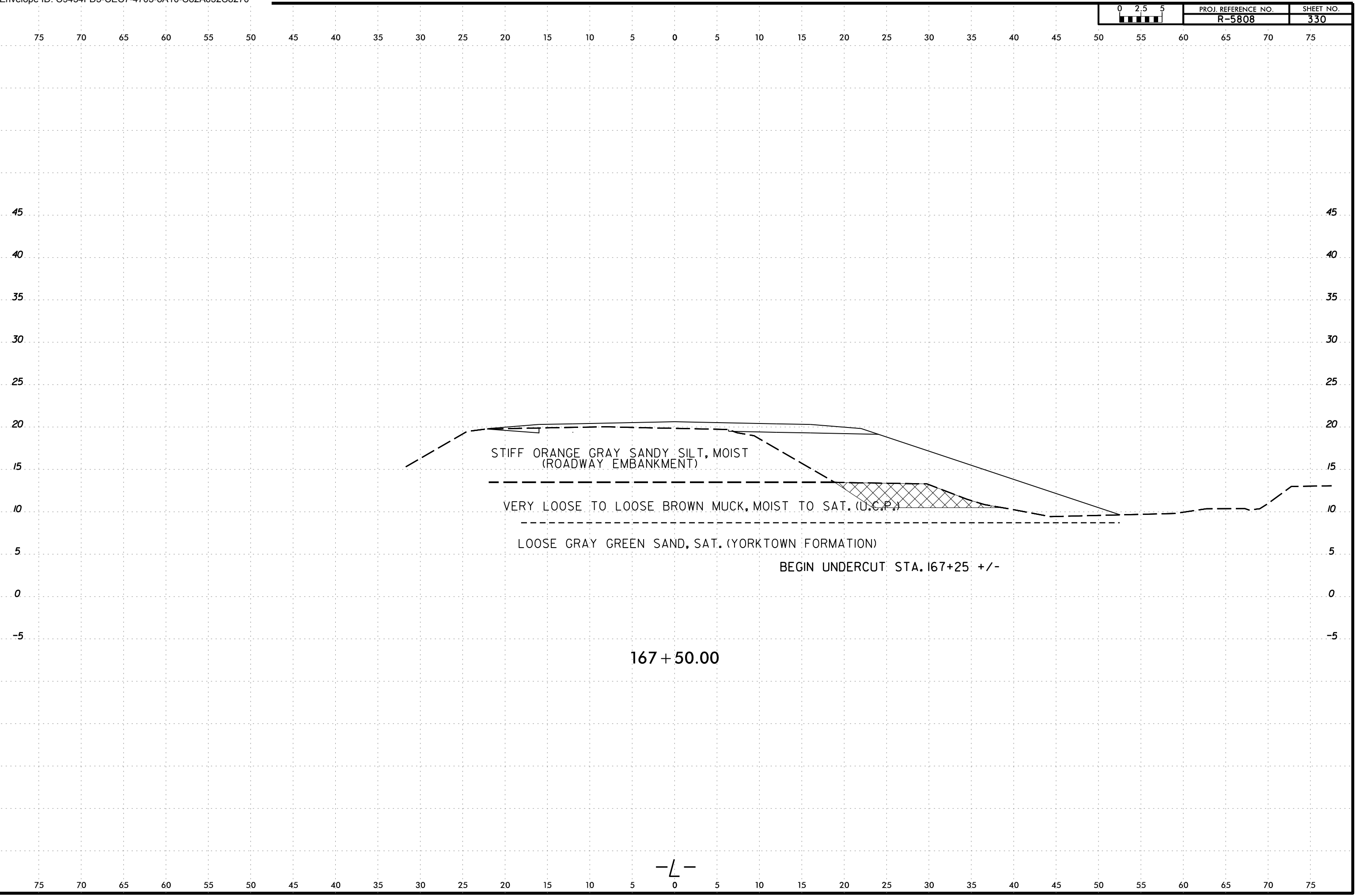
21-MAY-2024 16:52  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\166808\_GEO\RDWY\166808\_GEO\RDWY\CADD\GEO\TECH\SSC\166808\_GEO\_XSR\_2.dgn  
 jstone



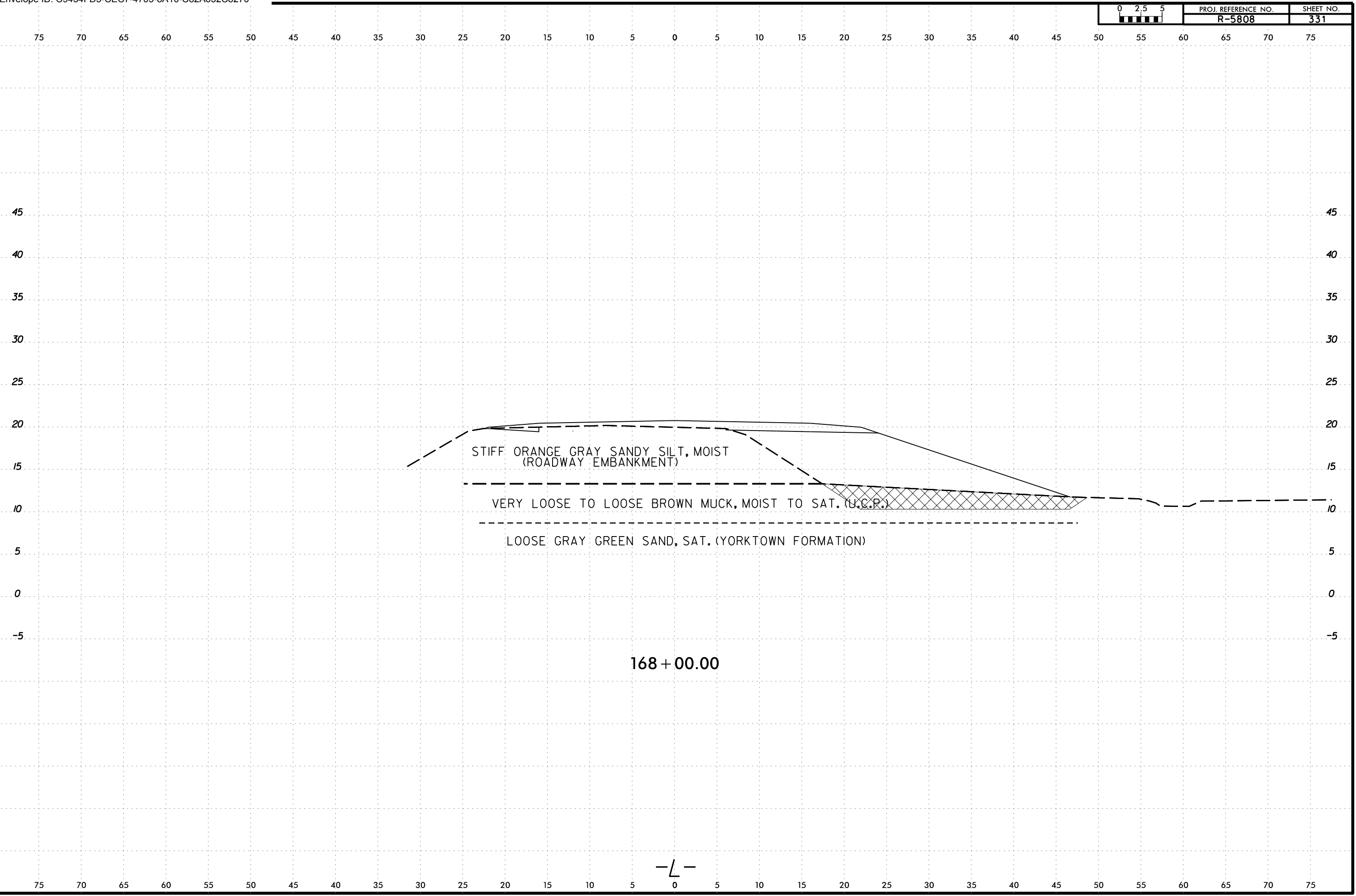
6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



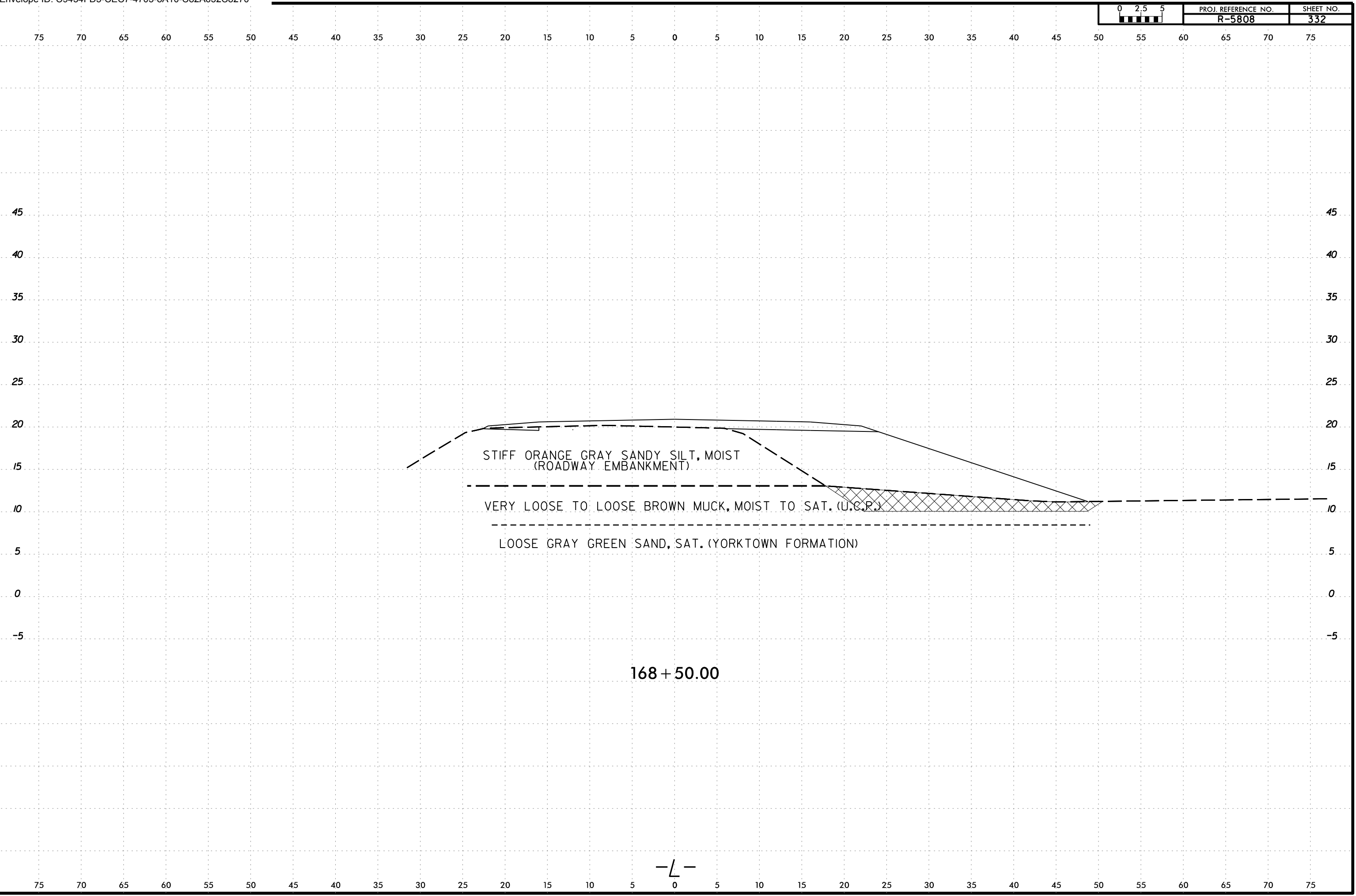
6/23/16  
21-MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

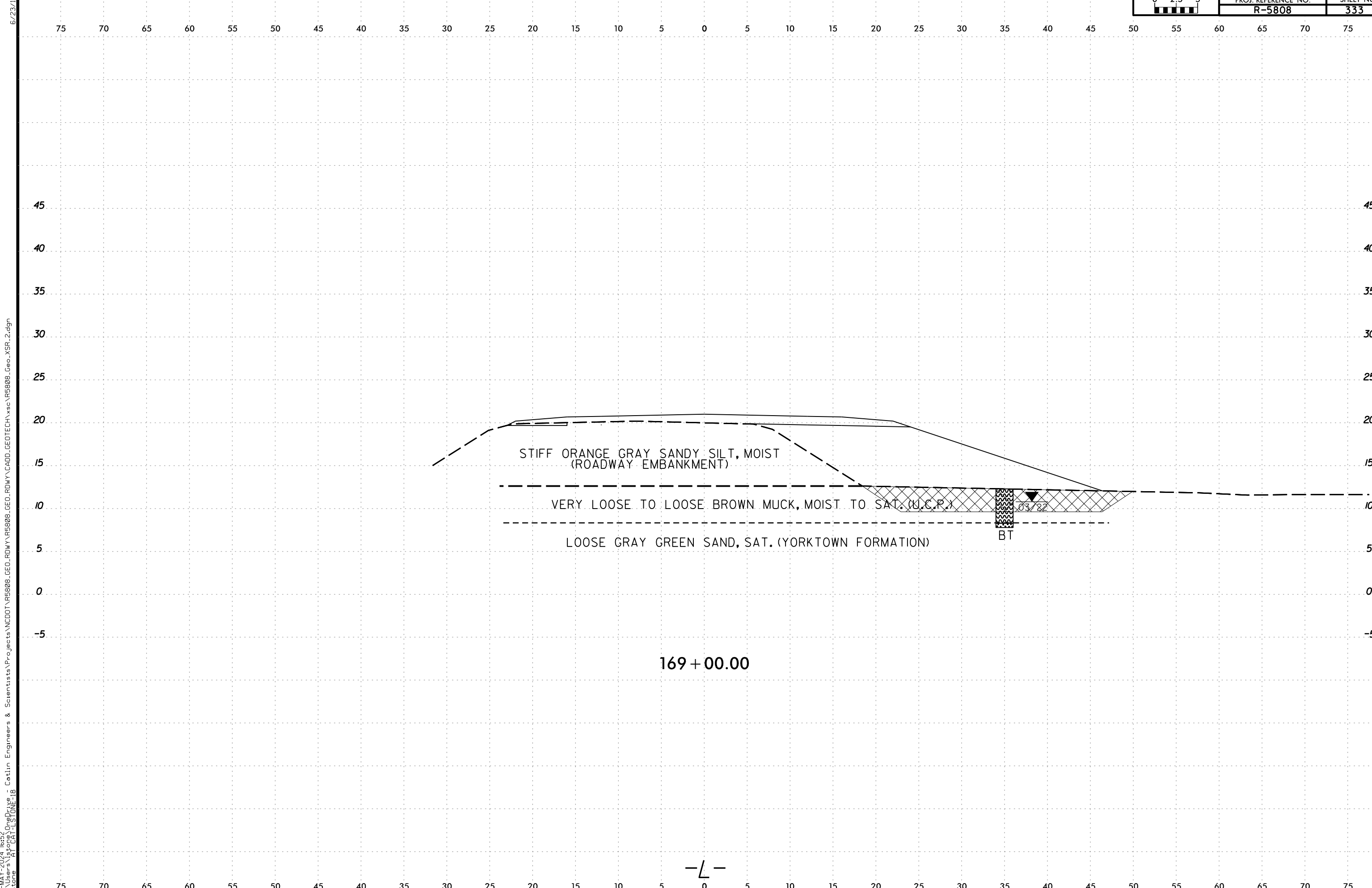


6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\RDWY\XSR\_2.dgn

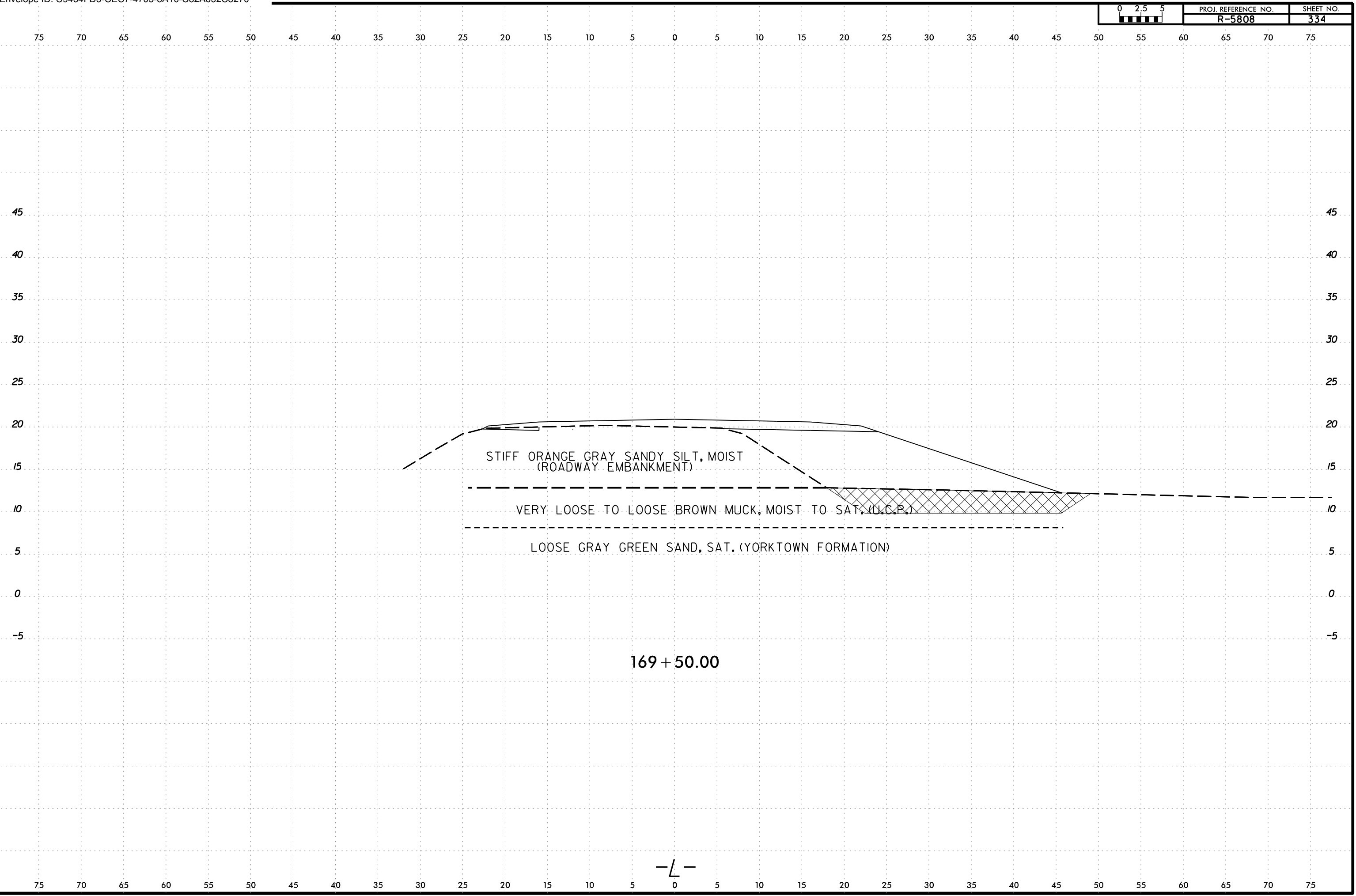


6/23/16  
21MAY-2024 16:52  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone





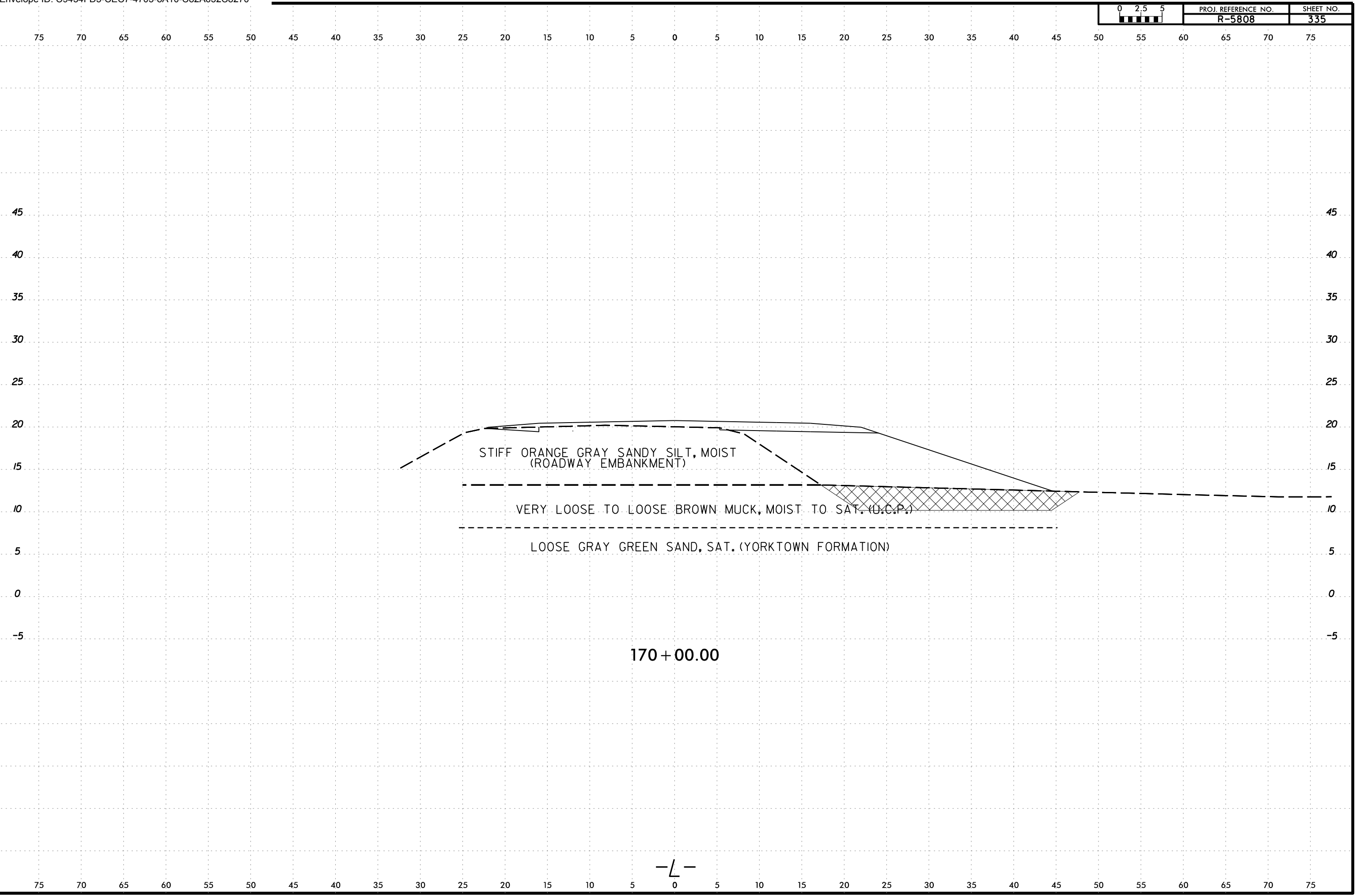
6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone



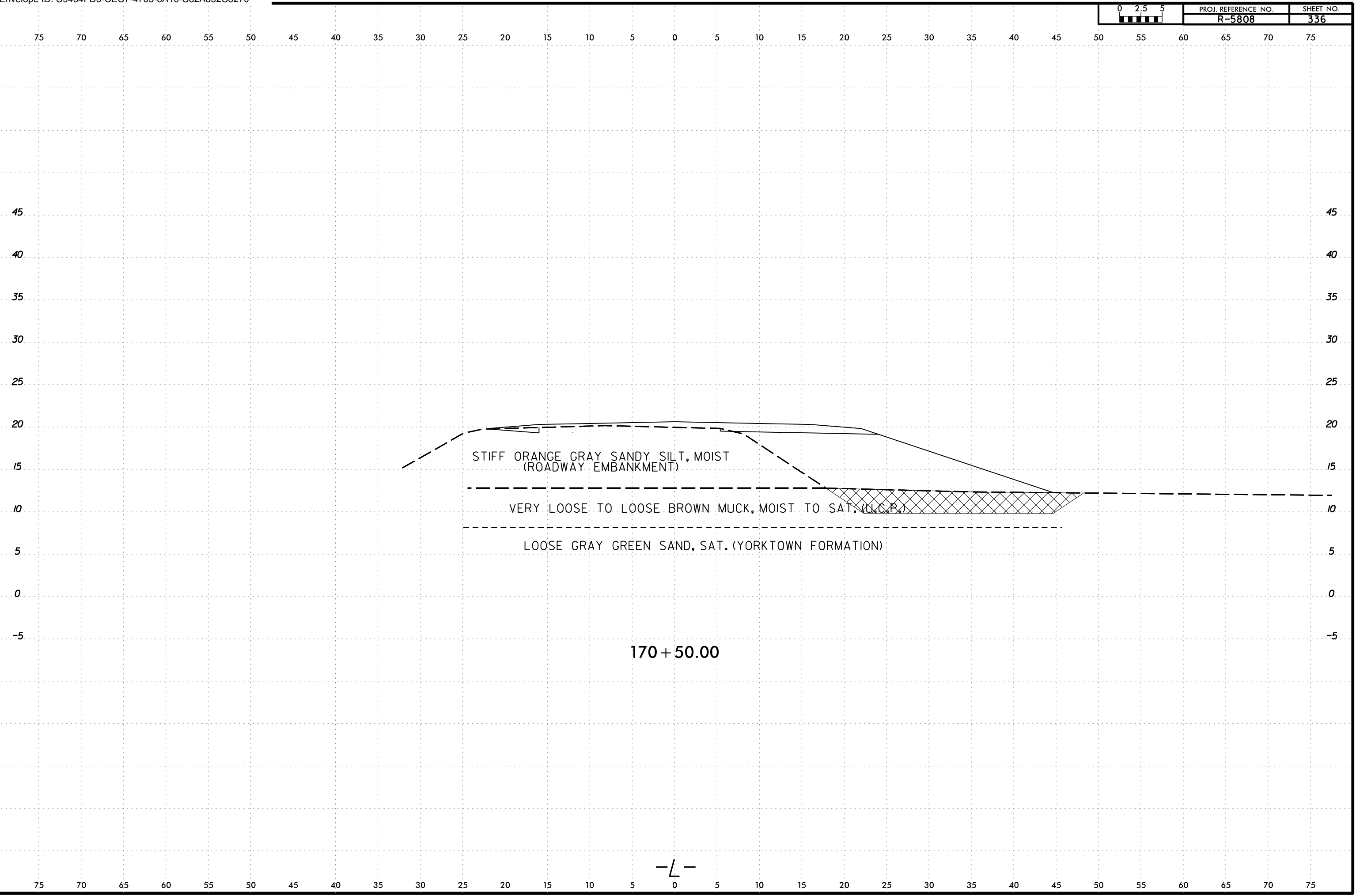
169 + 50.00

-L-

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone

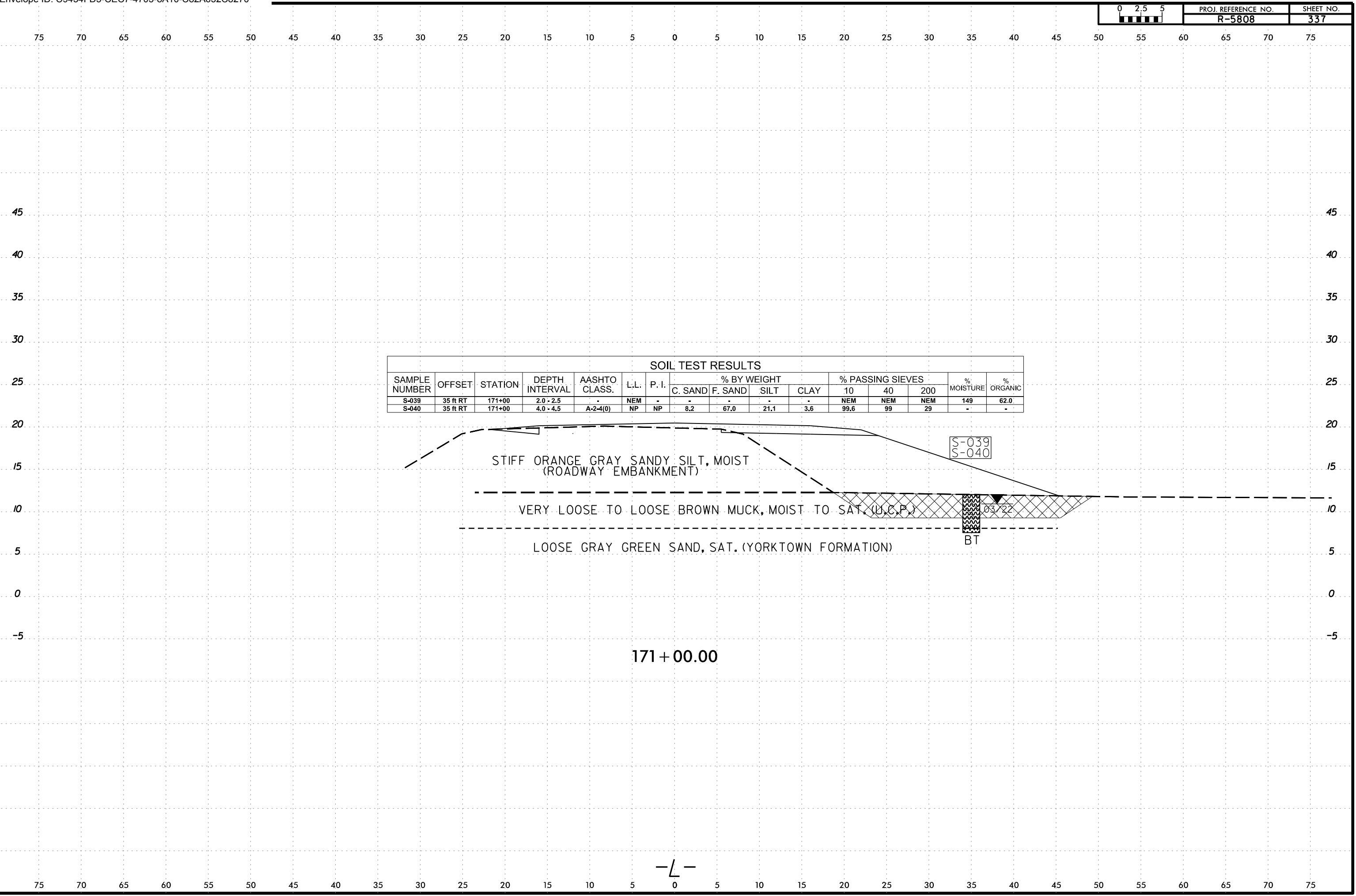


170+50.00

-L-



6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\VR5808\_GEO\_RDWY\VR5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\VR5808L\_Geo\_XSR\_2.dgn  
jstone

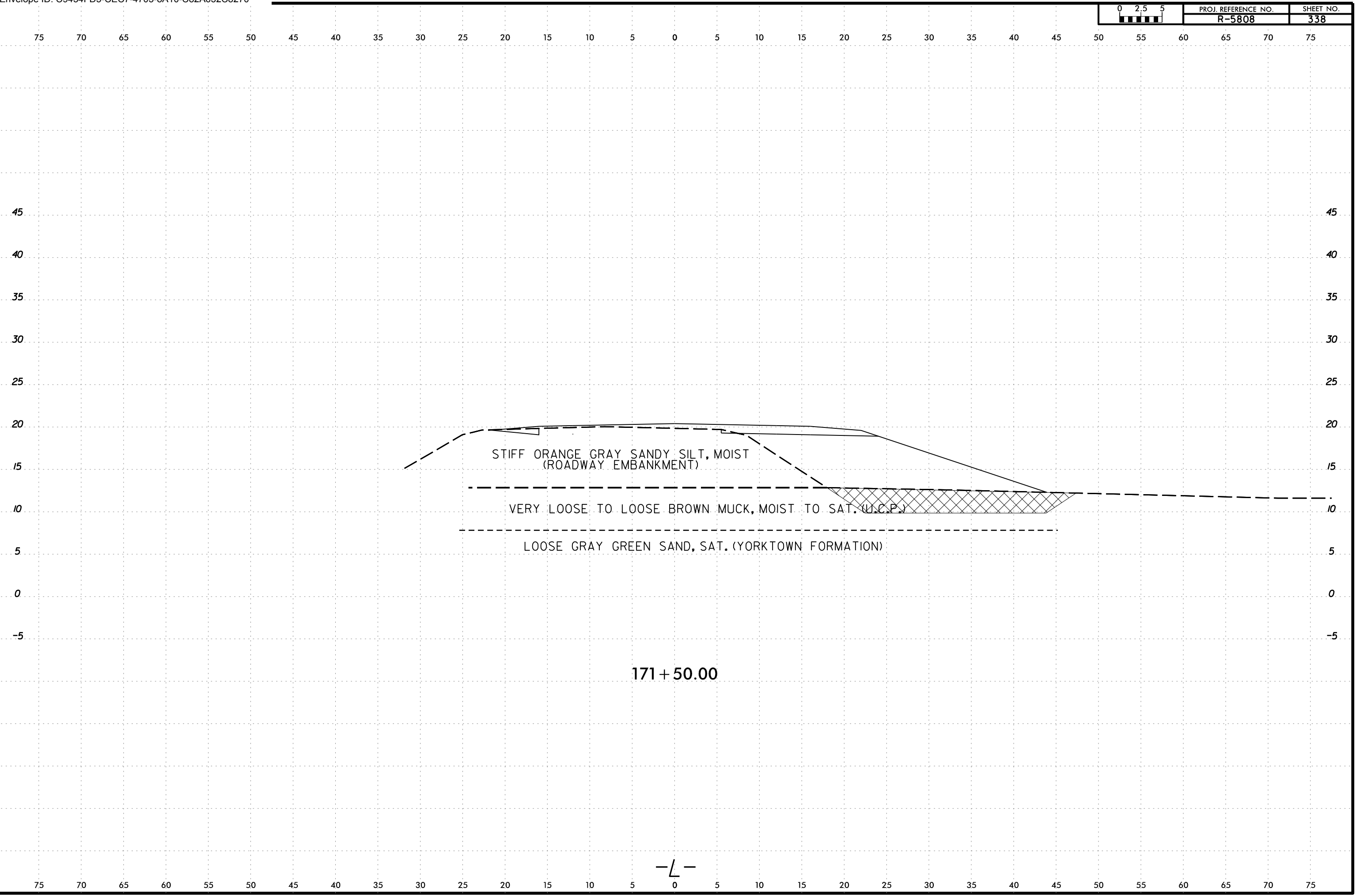


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-039	35 ft RT	171+00	2.0 - 2.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	149	62.0
S-040	35 ft RT	171+00	4.0 - 4.5	A-2-4(0)	NP	NP	8.2	67.0	21.1	3.6	99.6	99	29	-	-

171+00.00

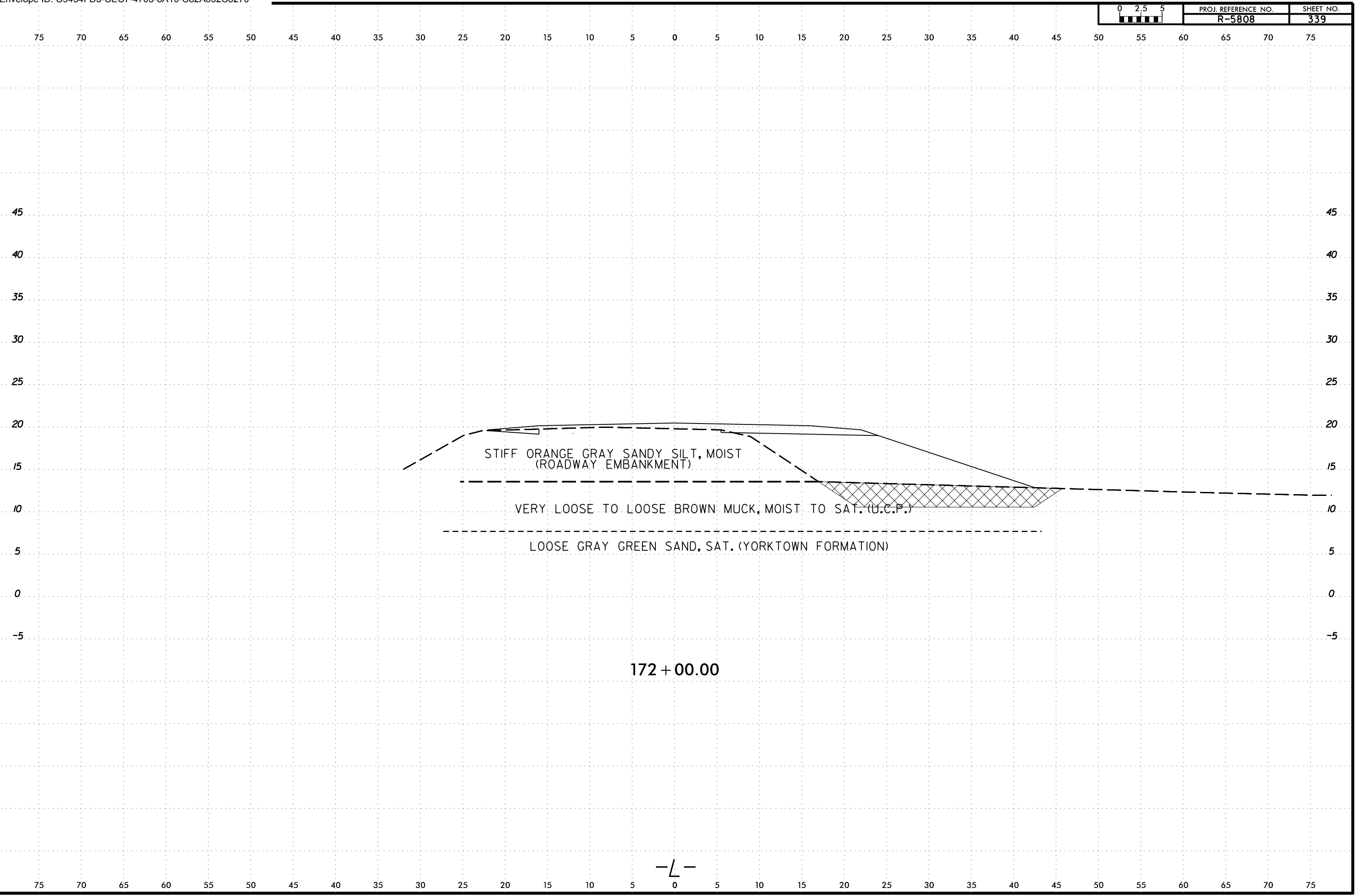
-L-

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone

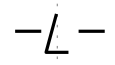


-L-

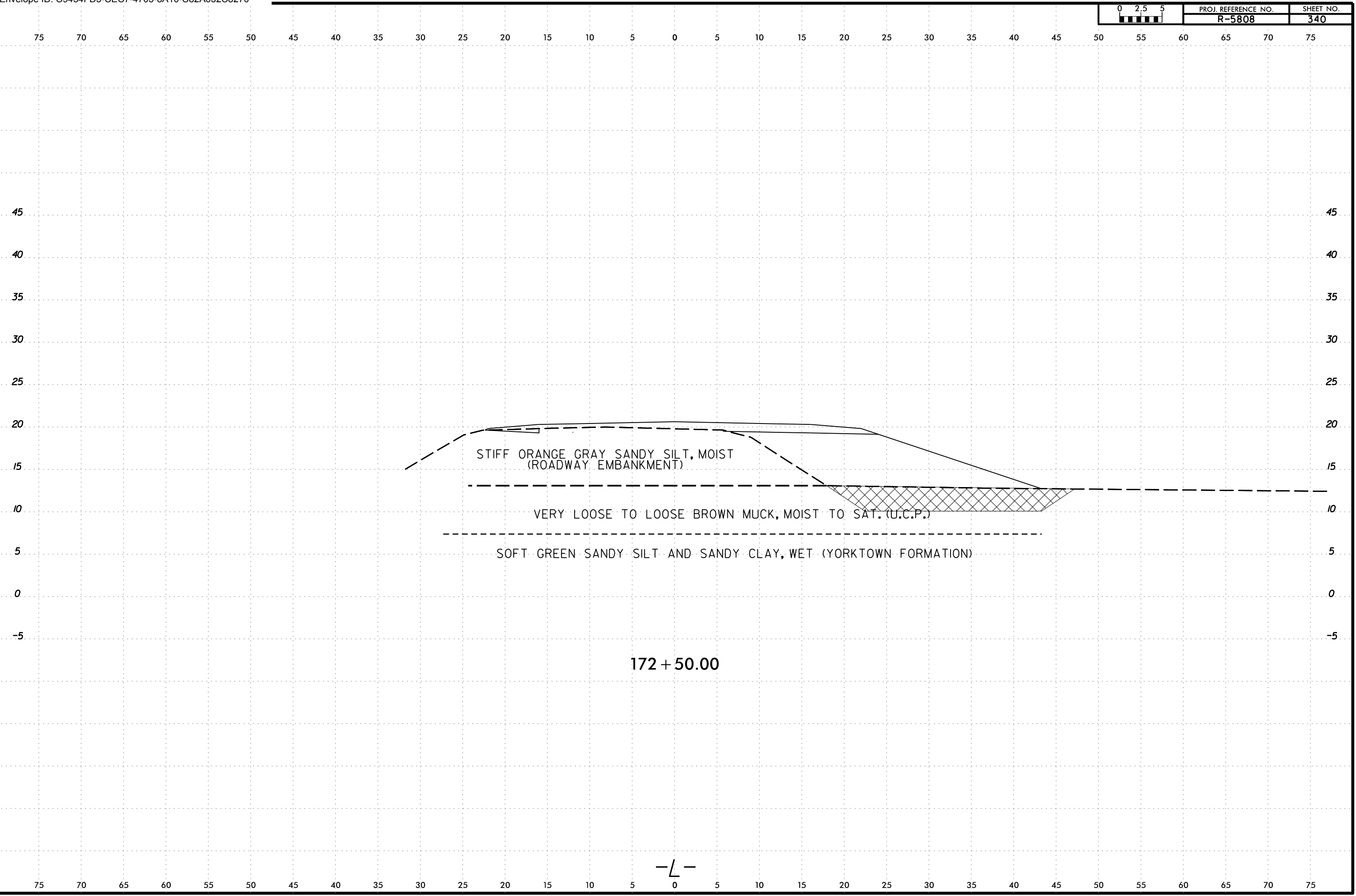
6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone

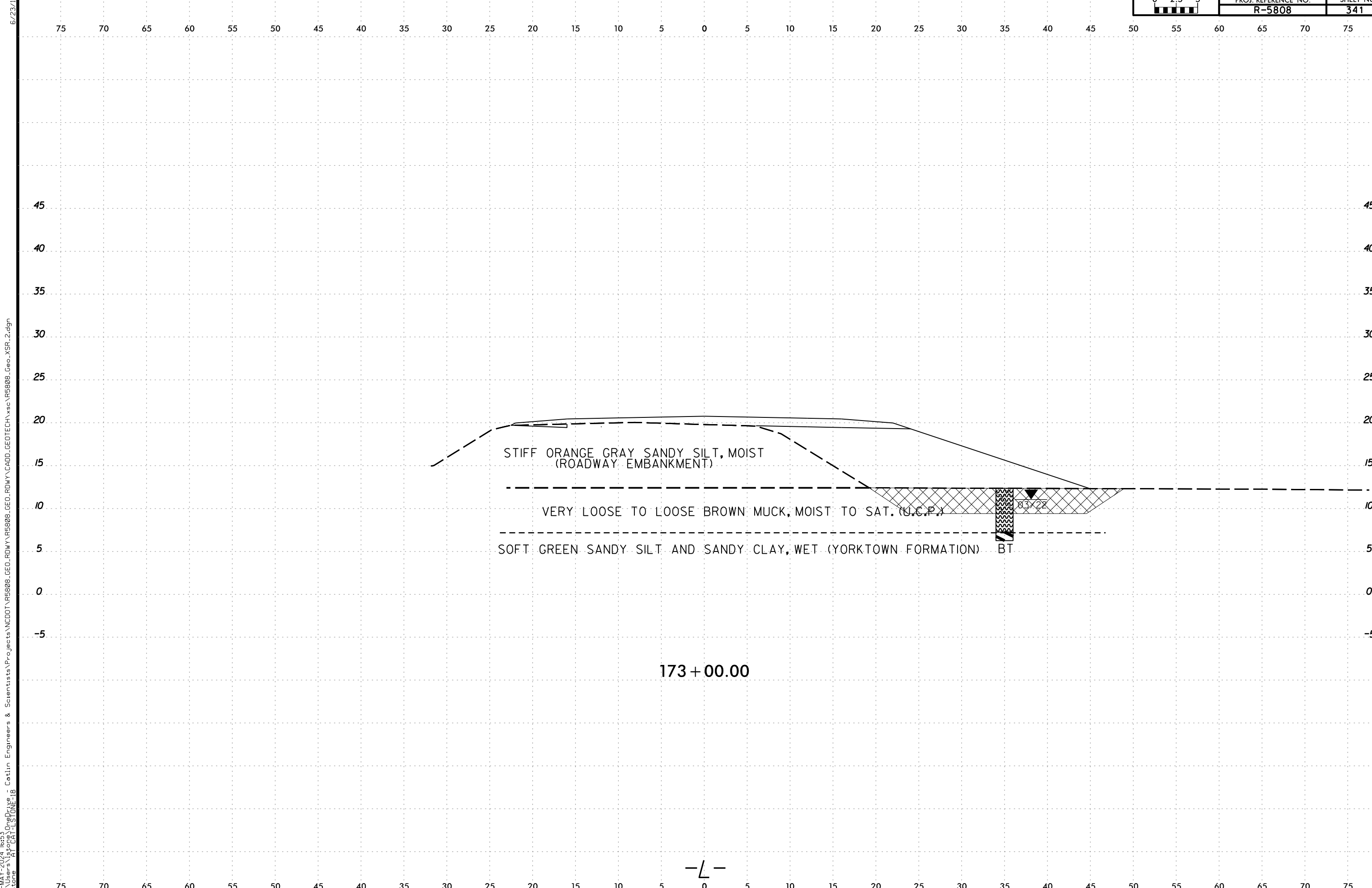


172 + 00.00



6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18





STIFF ORANGE GRAY SANDY SILT, MOIST  
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

BT

83/22

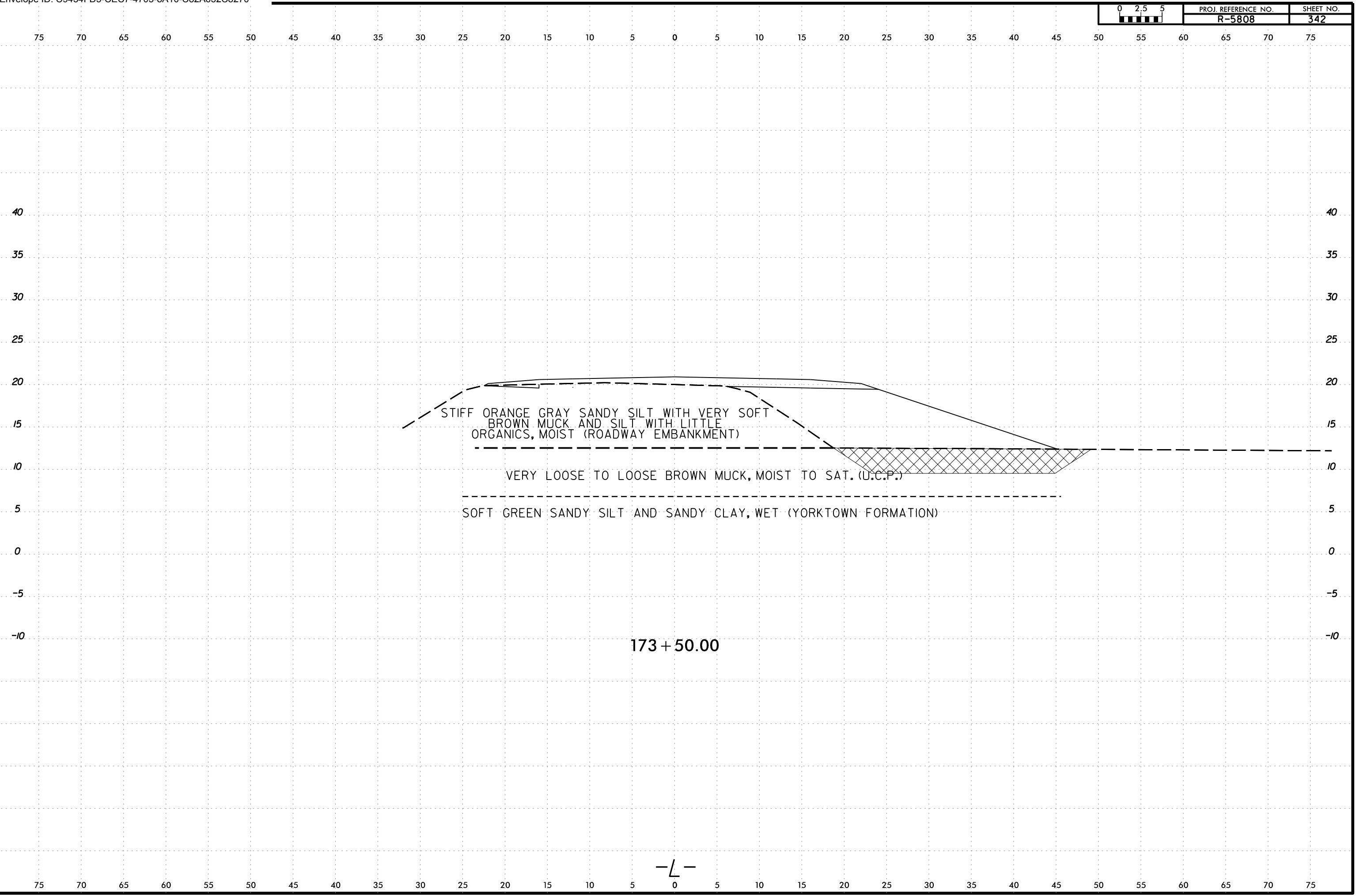
173 + 00.00

-L-

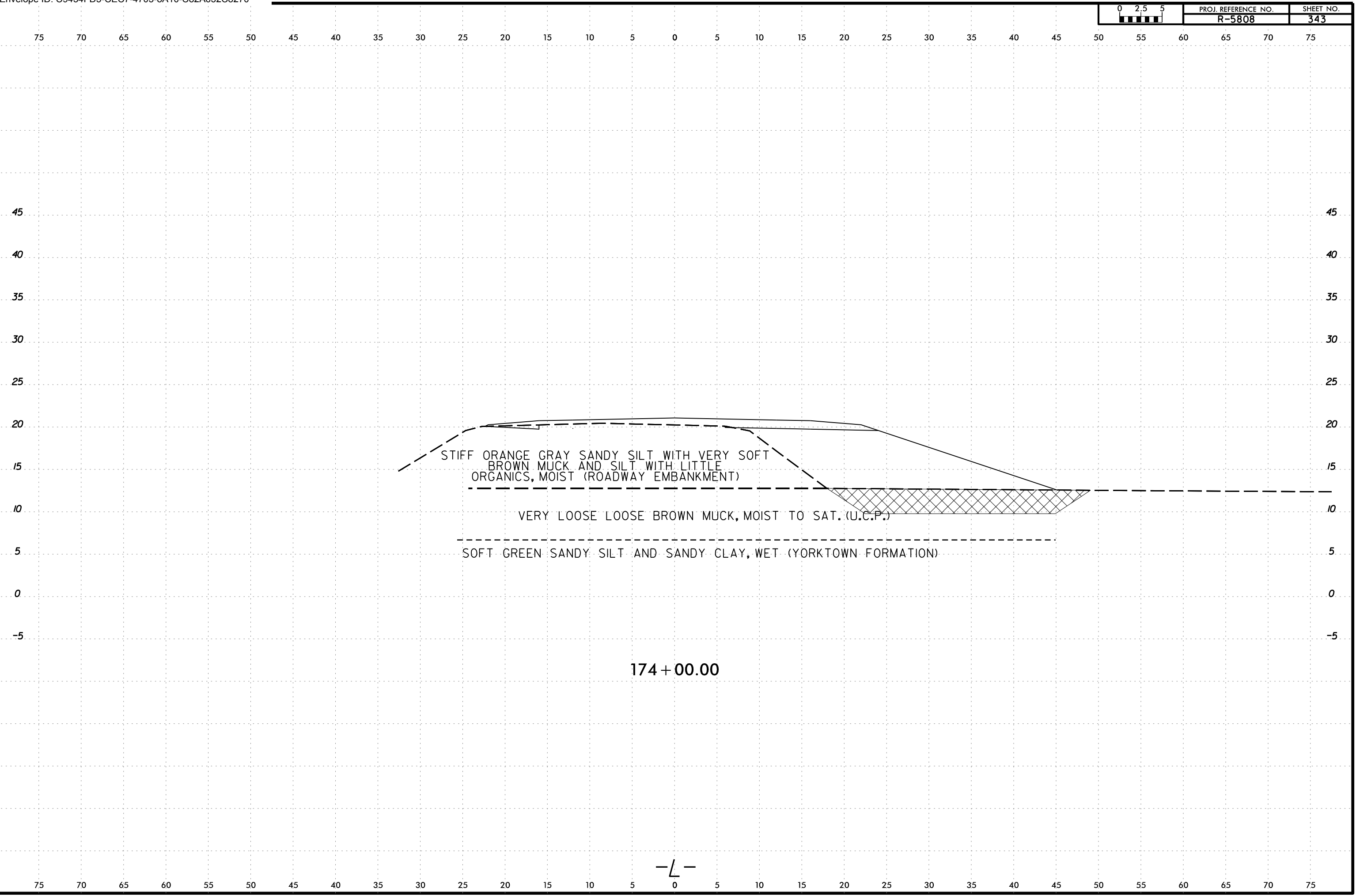
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone

6/23/16

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



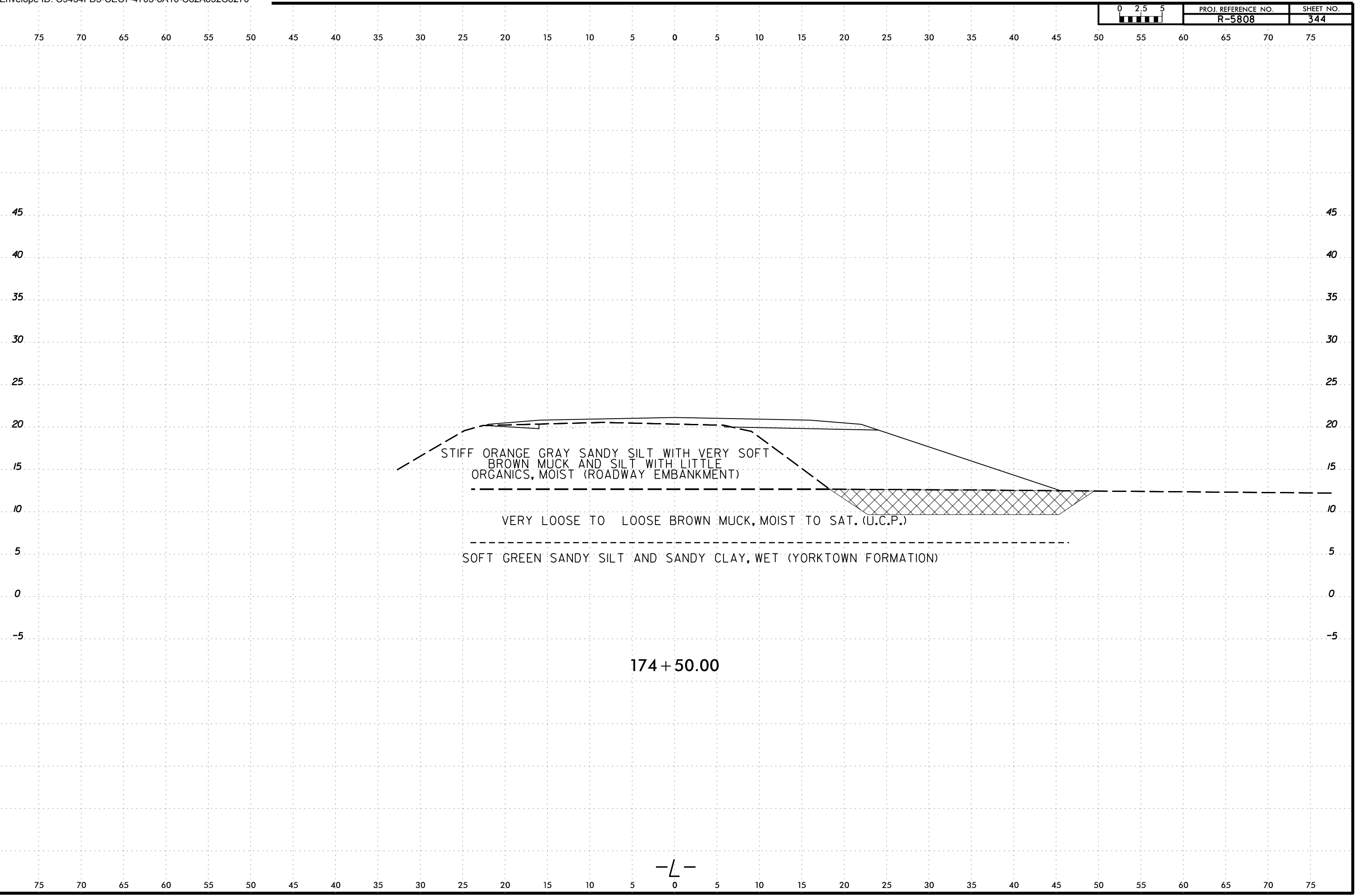
6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone



174 + 00.00

—L—

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

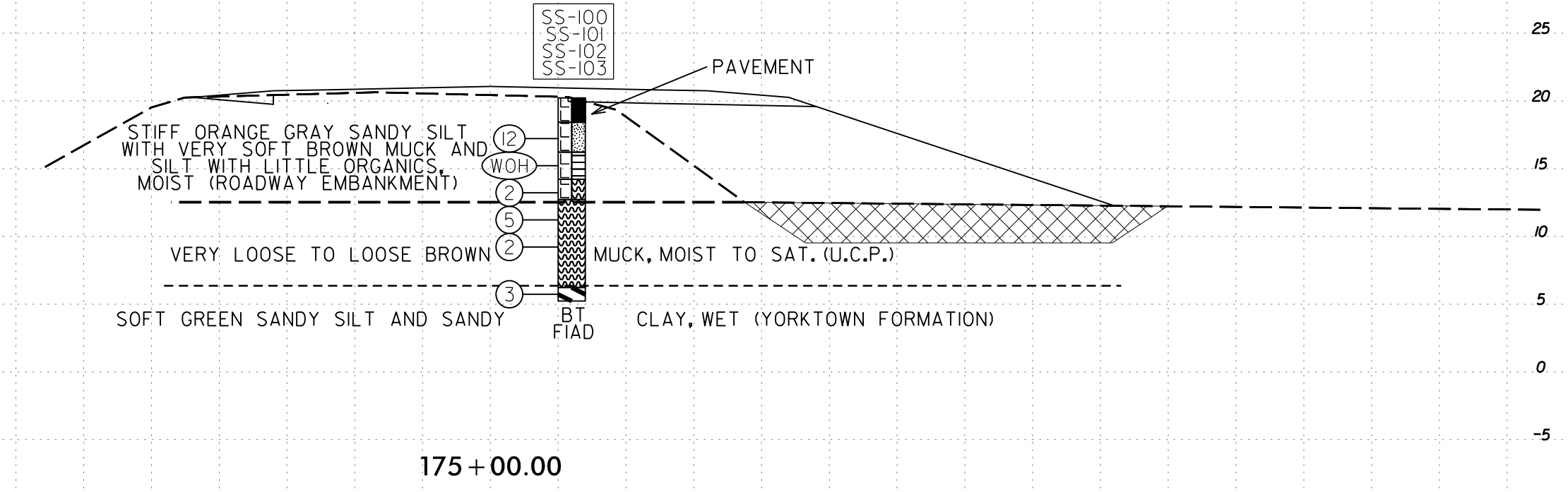
SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

174 + 50.00

-L-

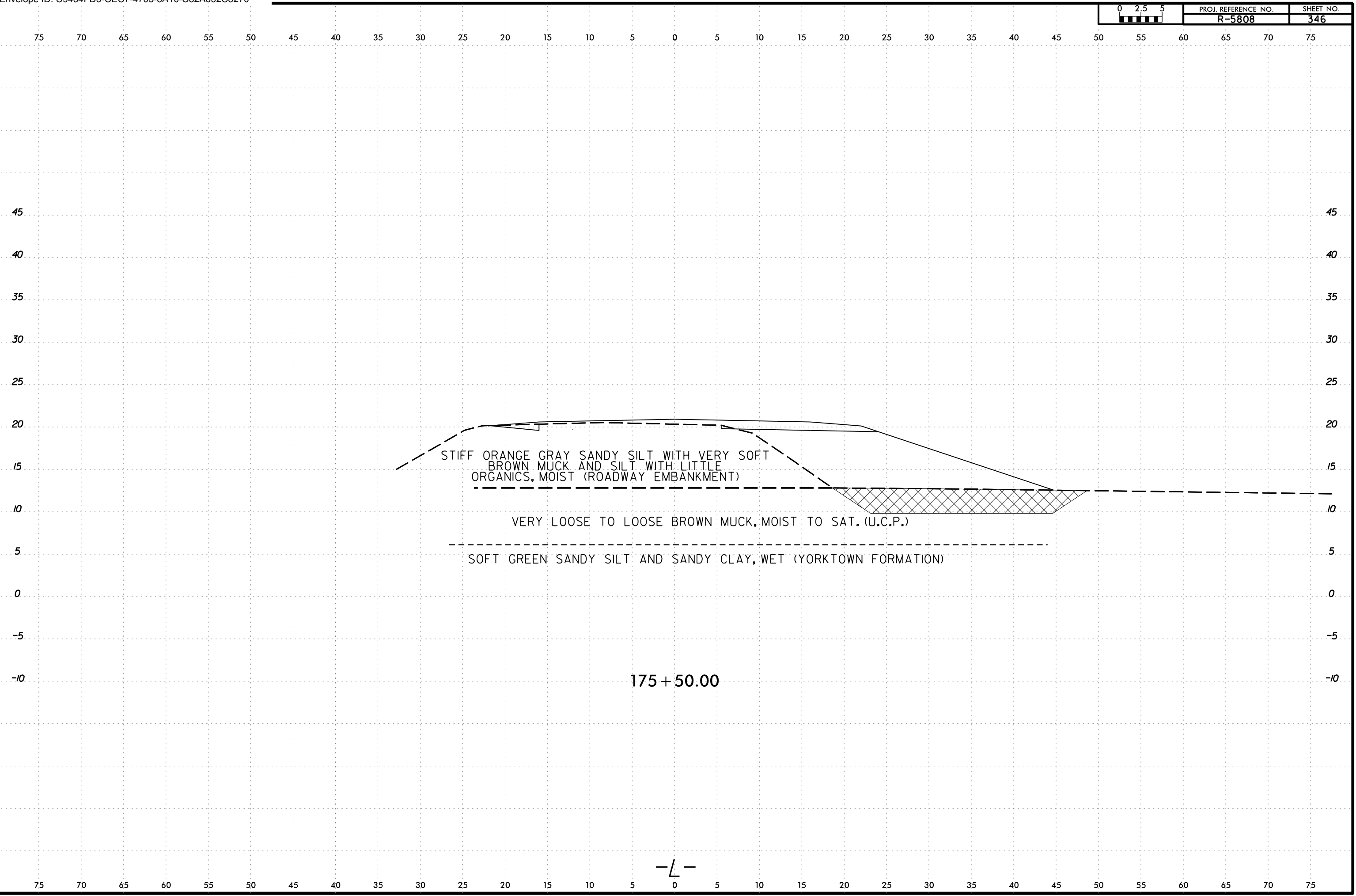


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-100	35 ft RT	175+00	4.0 - 6.0	()	NEM	-	11.0	27.2	39.2	22.7	99.4	97	68	-	8.9
SS-101	35 ft RT	175+00	6.0 - 8.0	A-4(0)	NP	NP	43.3	14.9	37.0	4.9	97.5	65	44	-	59.8
SS-102	35 ft RT	175+00	8.0 - 10.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	15.5	
SS-103	35 ft RT	175+00	14.0 - 15.0	A-6(10)	30	14	6.3	20.8	43.9	29.0	99.4	99	82	-	-

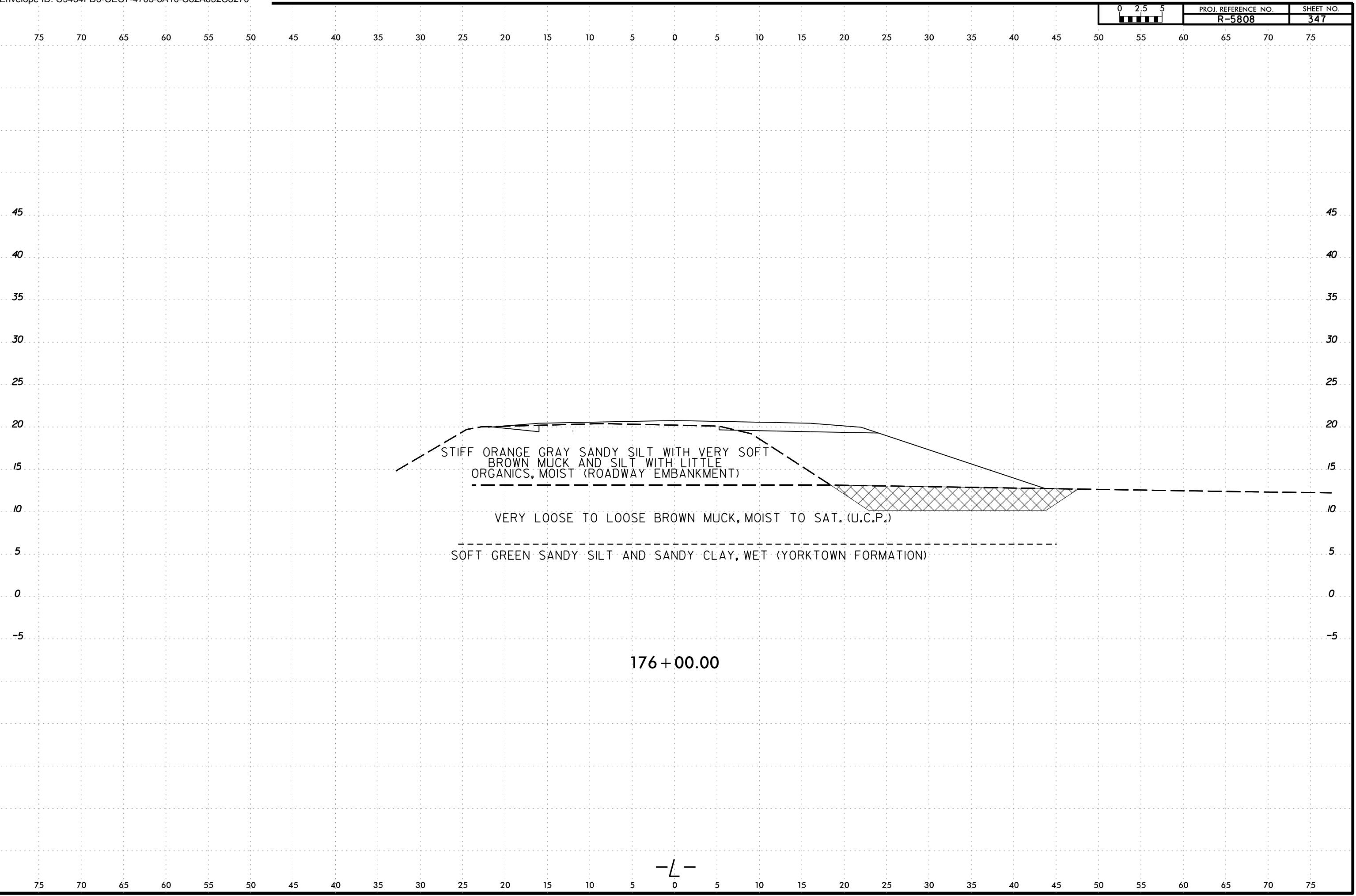


21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\175808\_GEO\RDWY\175808\_GEO\RDWY\CADD\GEO\TECH\XSC\175808\_GEO\_XSR\_2.dgn  
 jstone

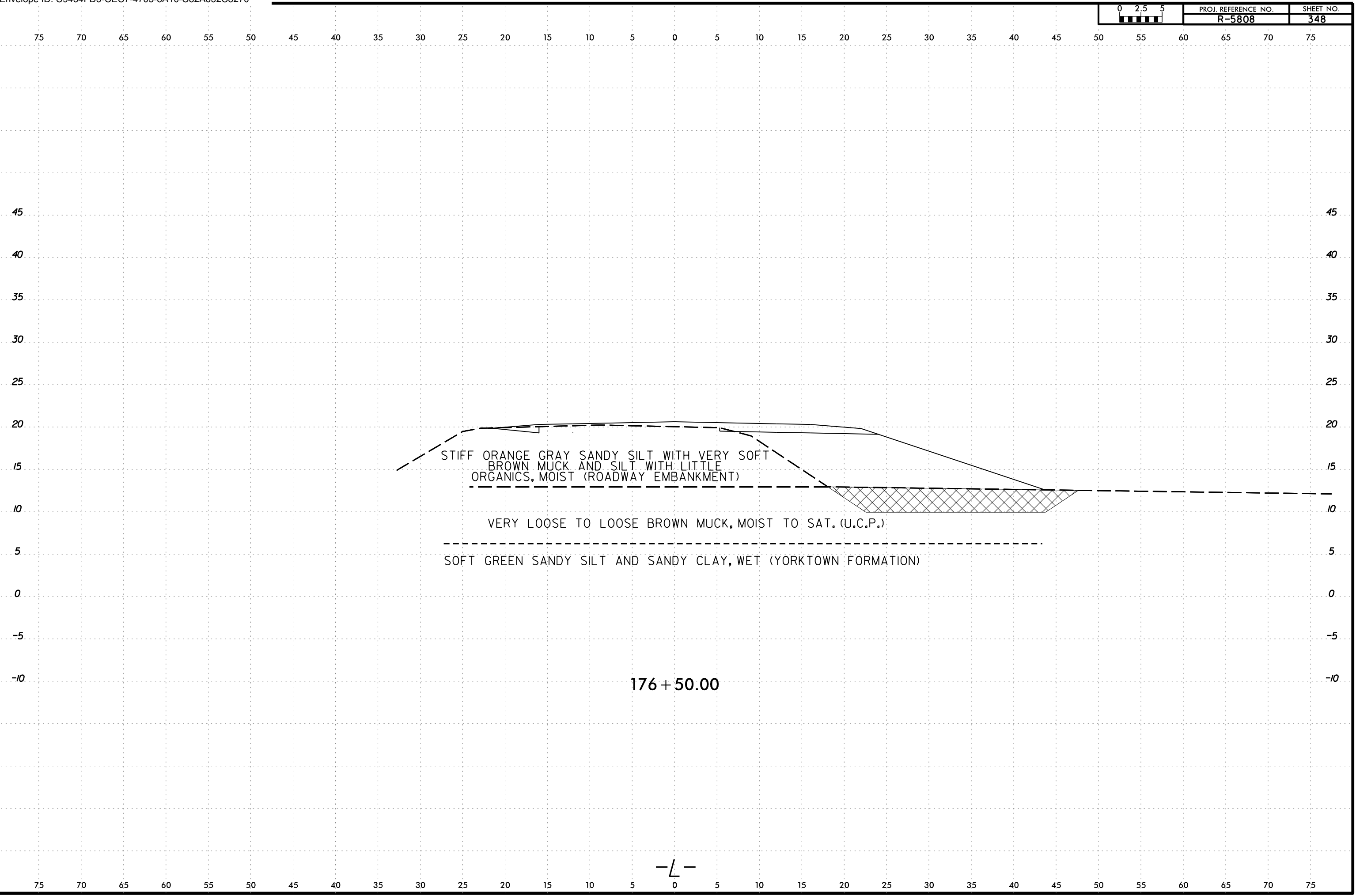
6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone



6/23/16  
2\MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

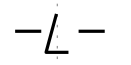


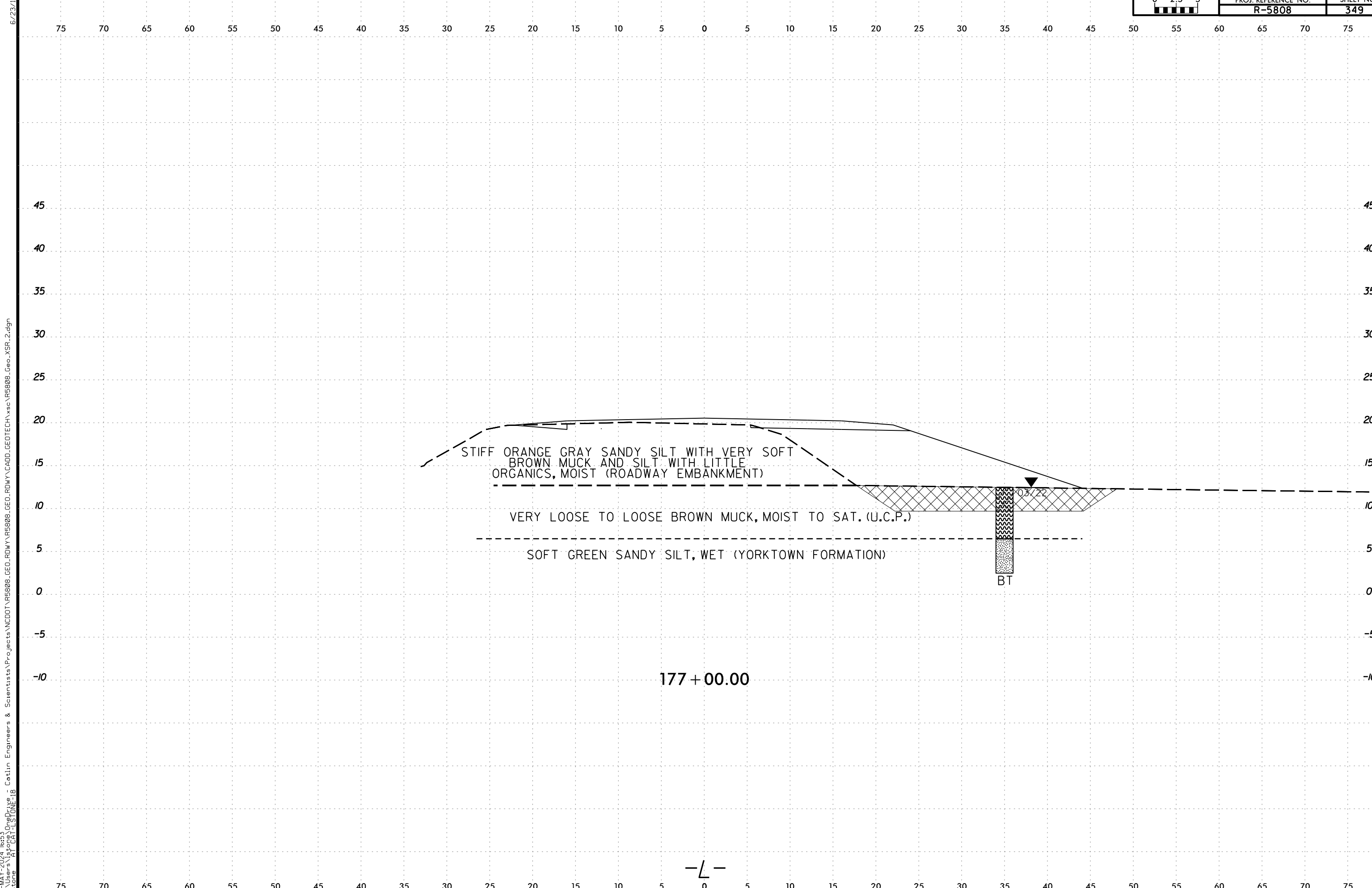
STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT  
BROWN MUCK AND SILT WITH LITTLE  
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

176 + 50.00

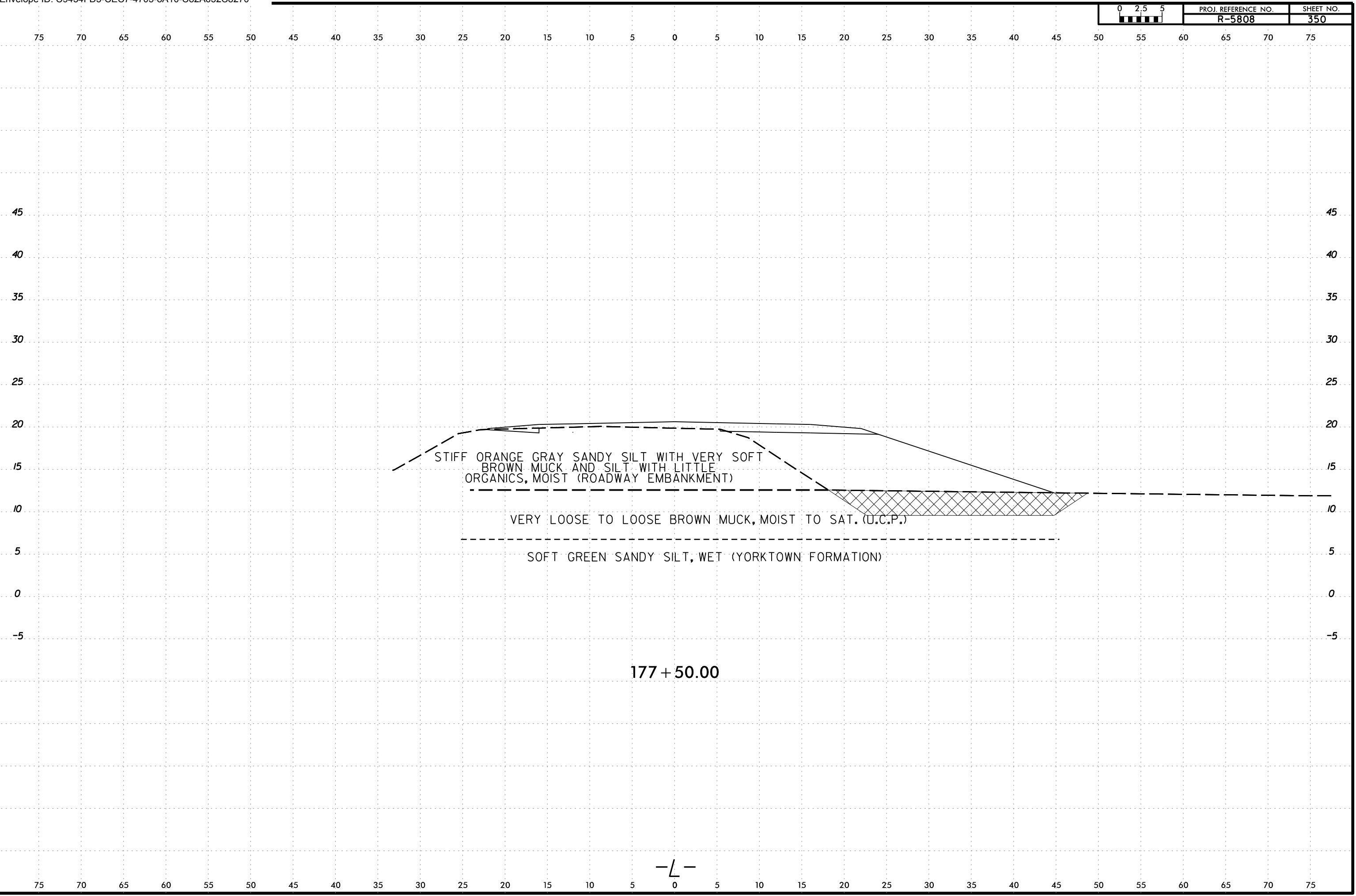




21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
 jstone

—L—

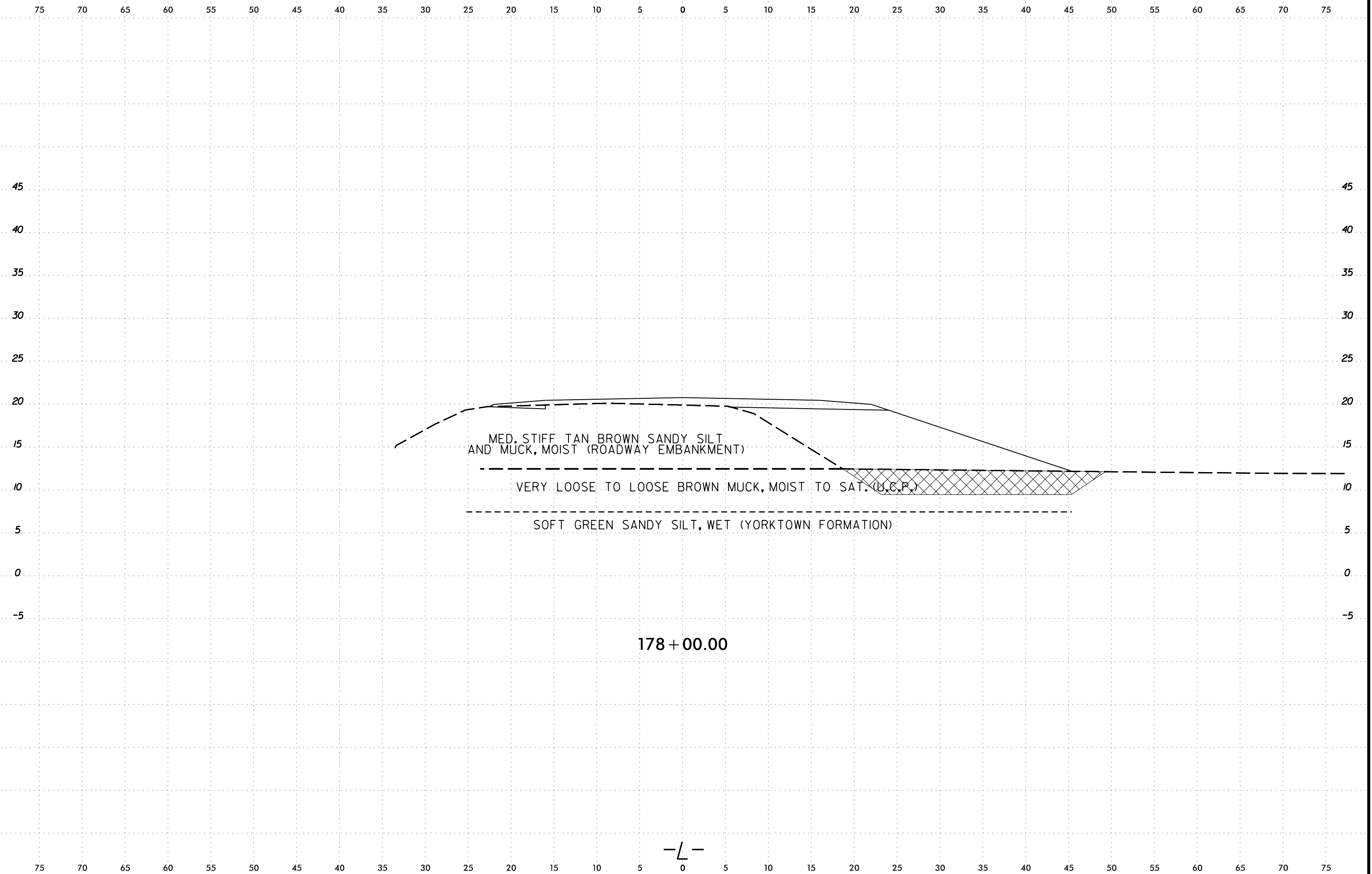
6/23/16  
2\MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



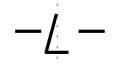
-L-

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone

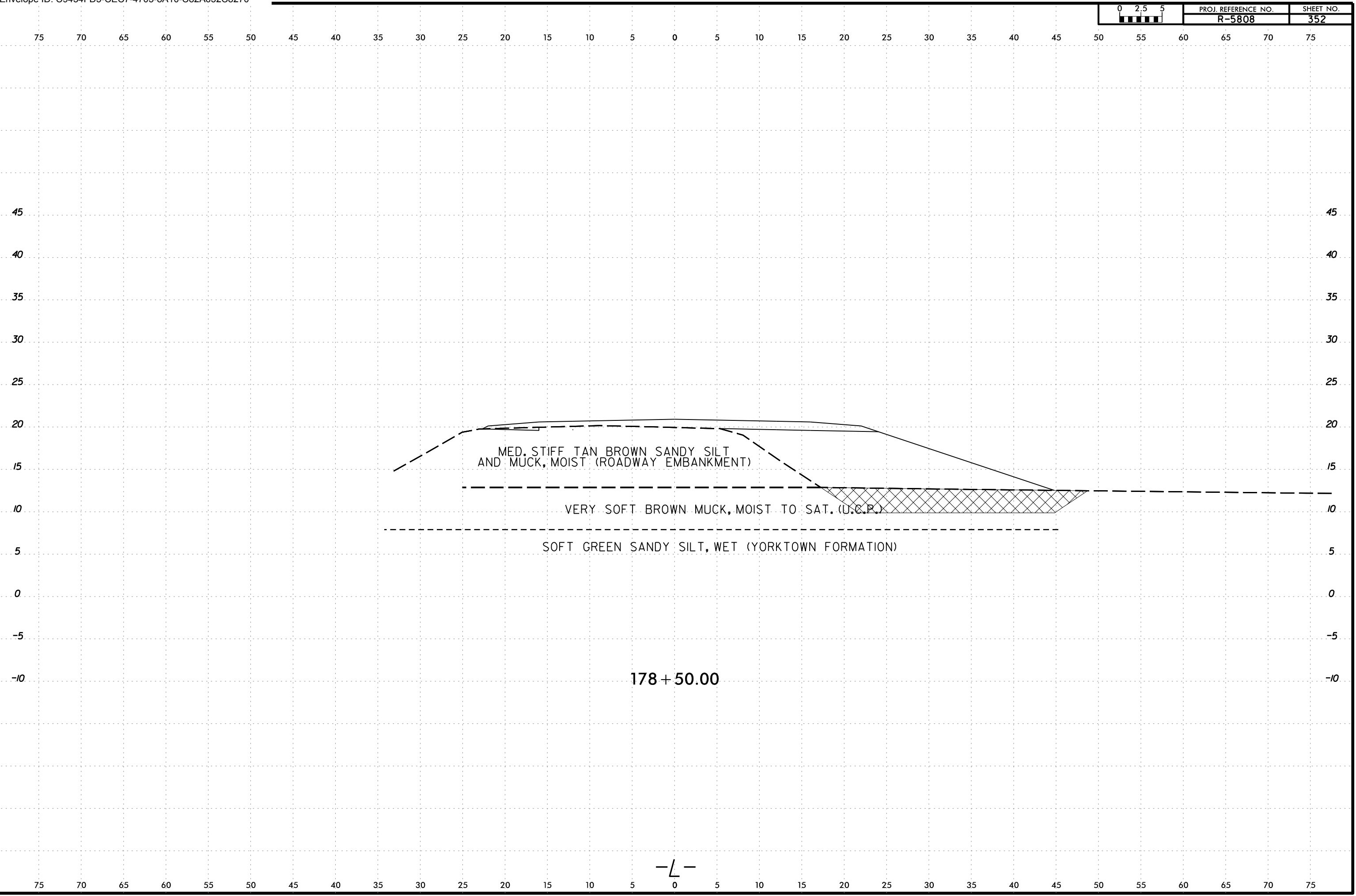
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	351



178 + 00.00



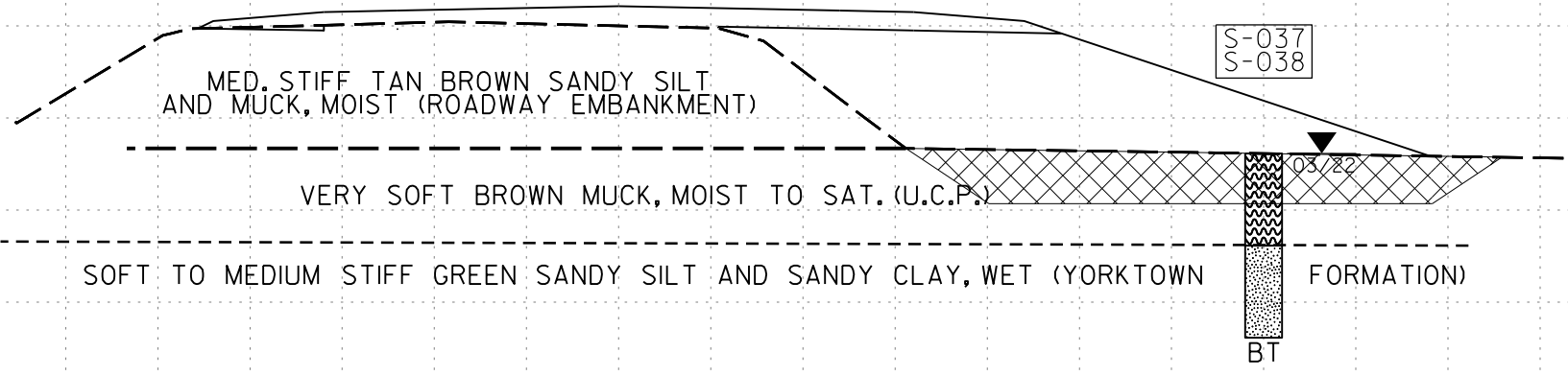
6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone



-L-



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	-	19.8	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	-	-



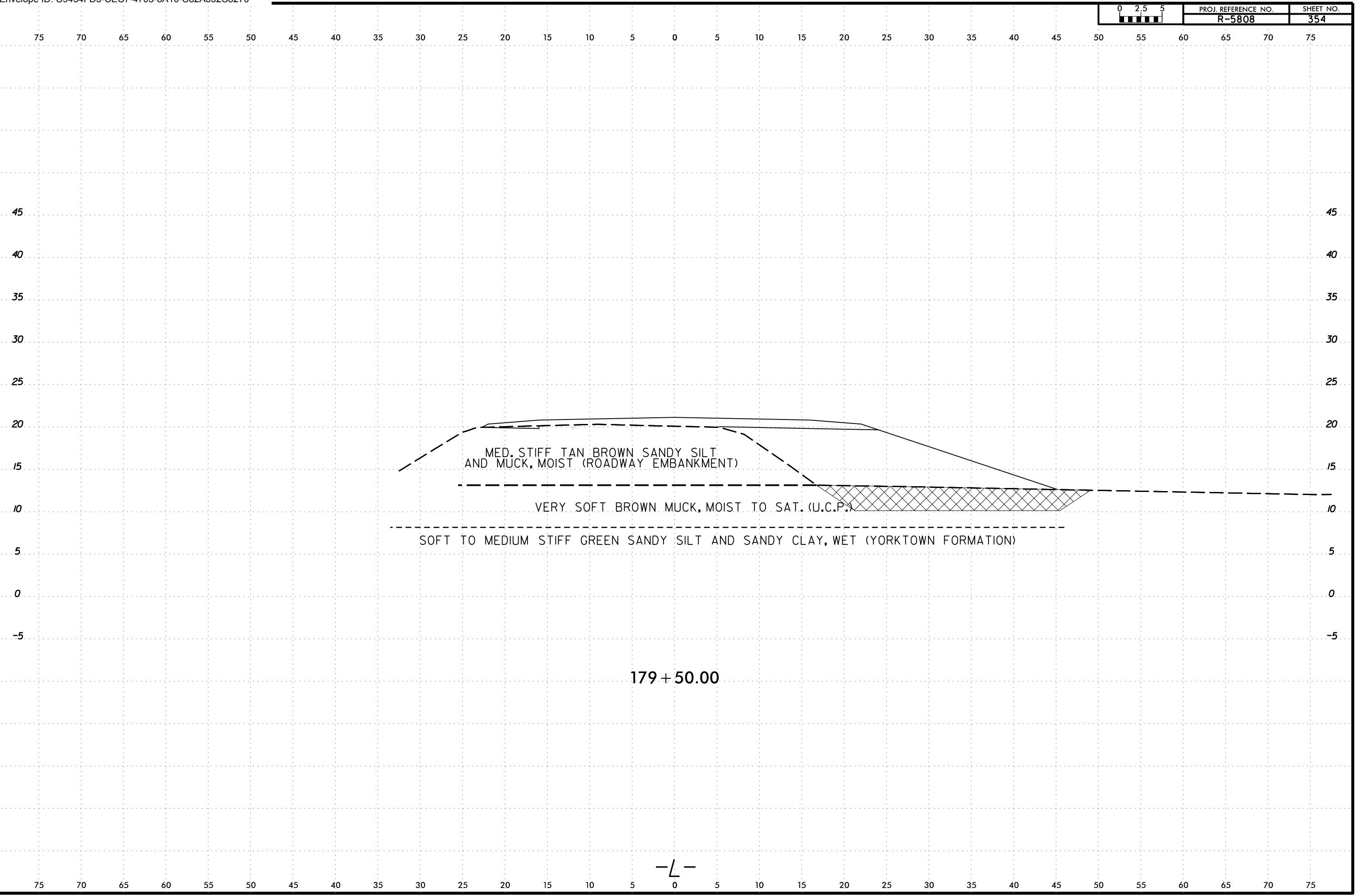
179 + 00.00

-L-

21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\1795808\_GEO\RDWY\1795808\_GEO\RDWY\CADD\GEO\TECH\XSC\1795808\_GEO\_XSR\_2.dgn  
 jstone AT CAT-1 STONE-18

6/23/16

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



MED. STIFF TAN BROWN SANDY SILT AND MUCK, MOIST (ROADWAY EMBANKMENT)

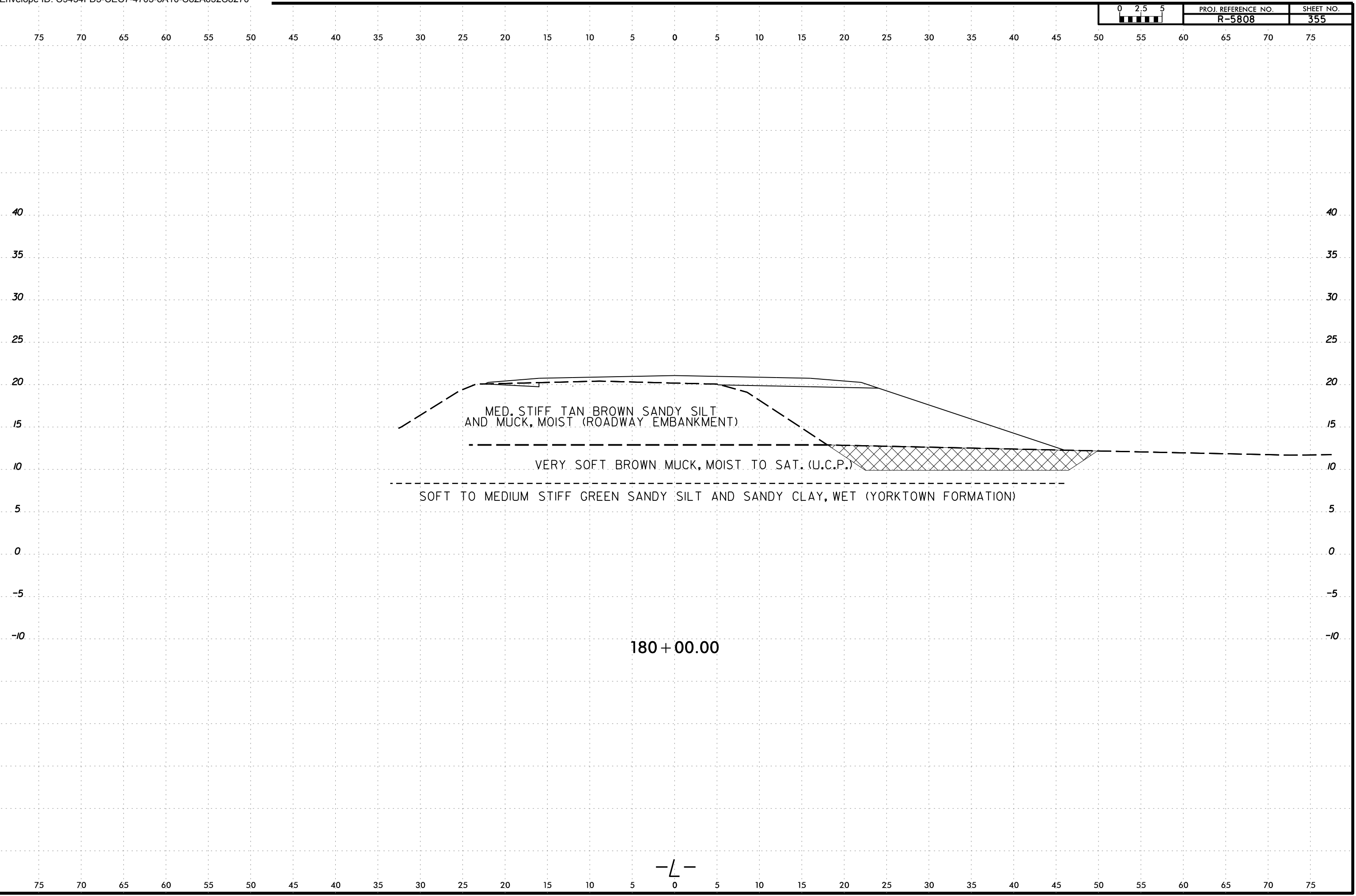
VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

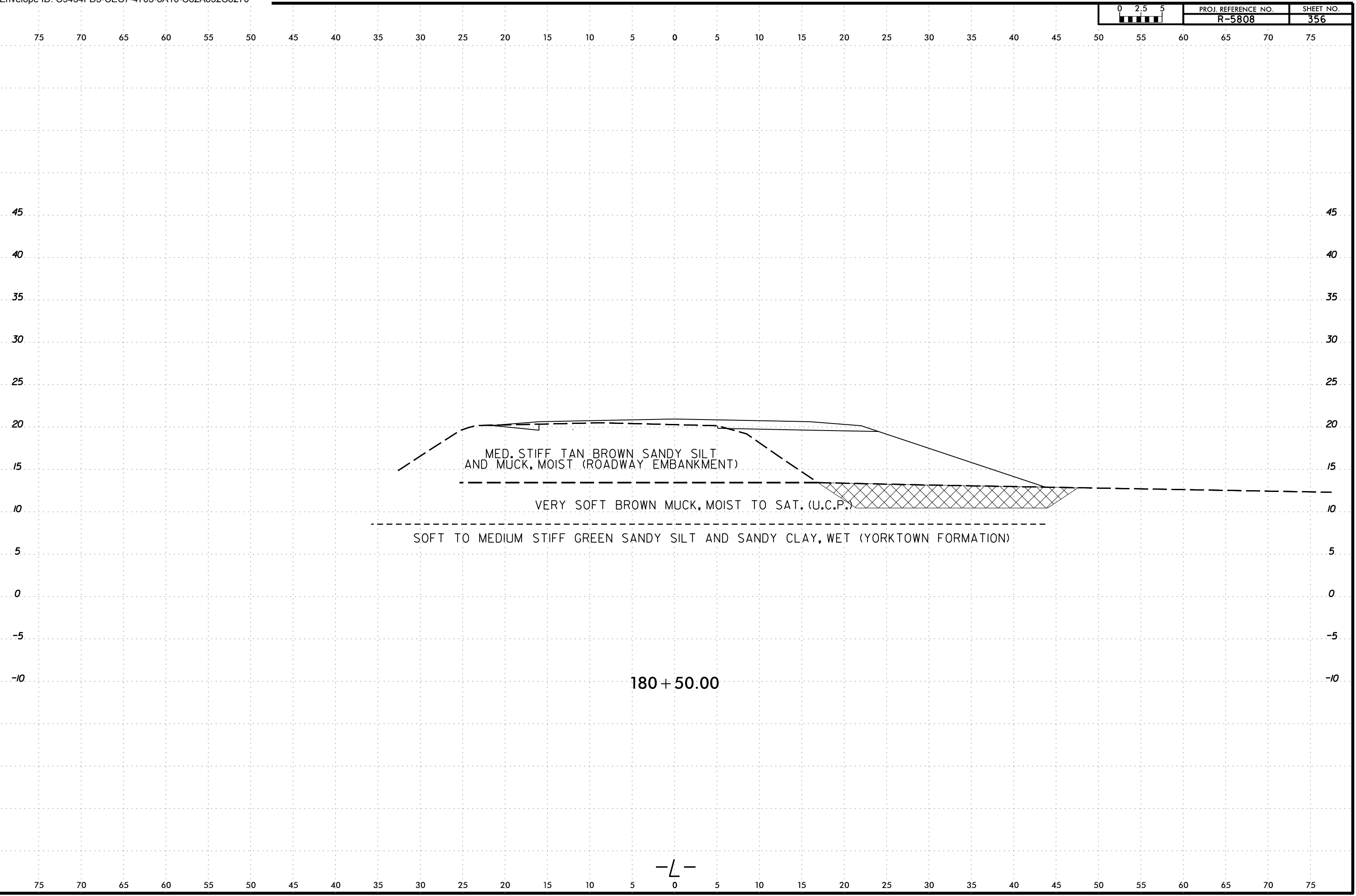
179+50.00

-L-

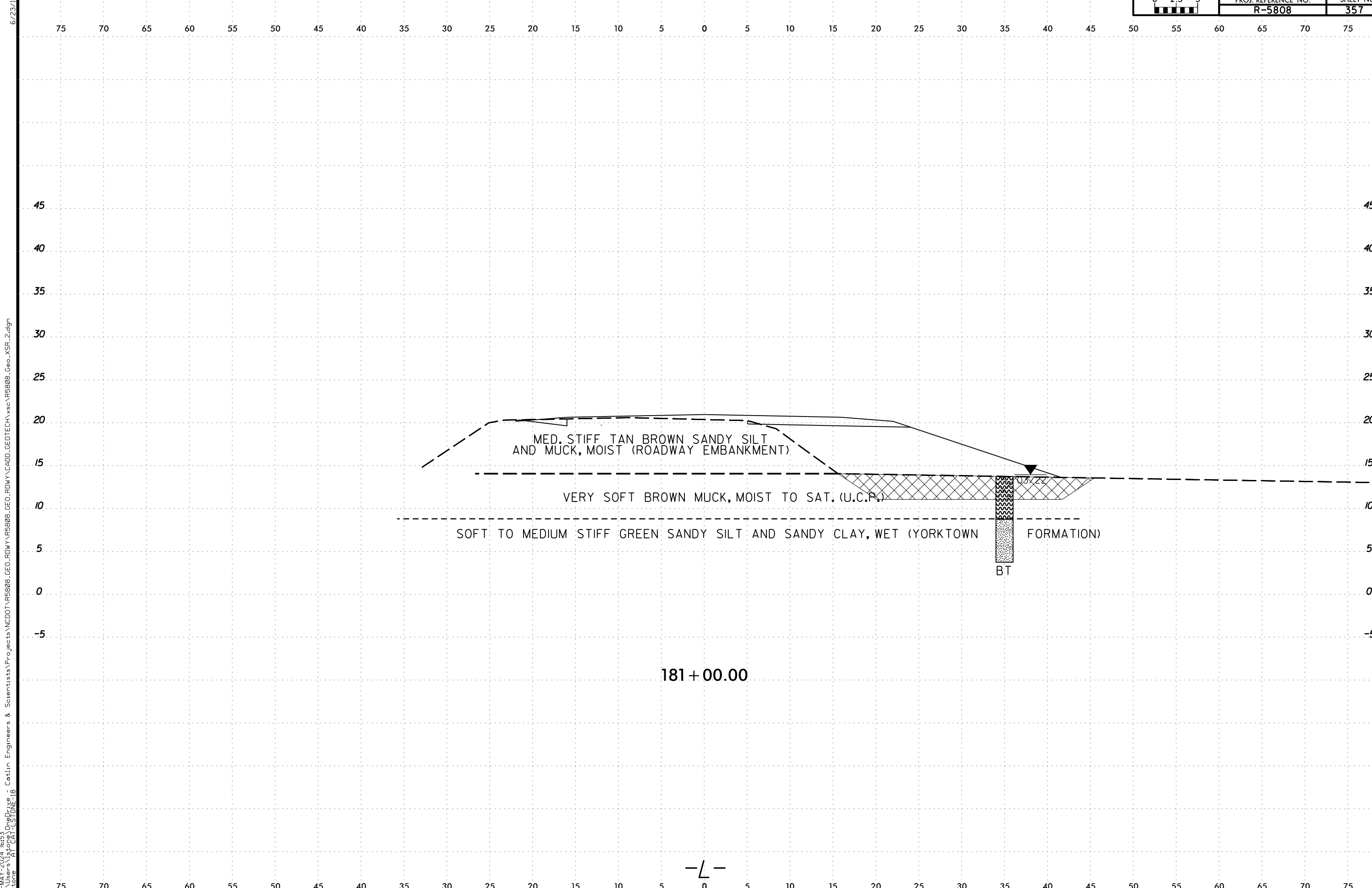
6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



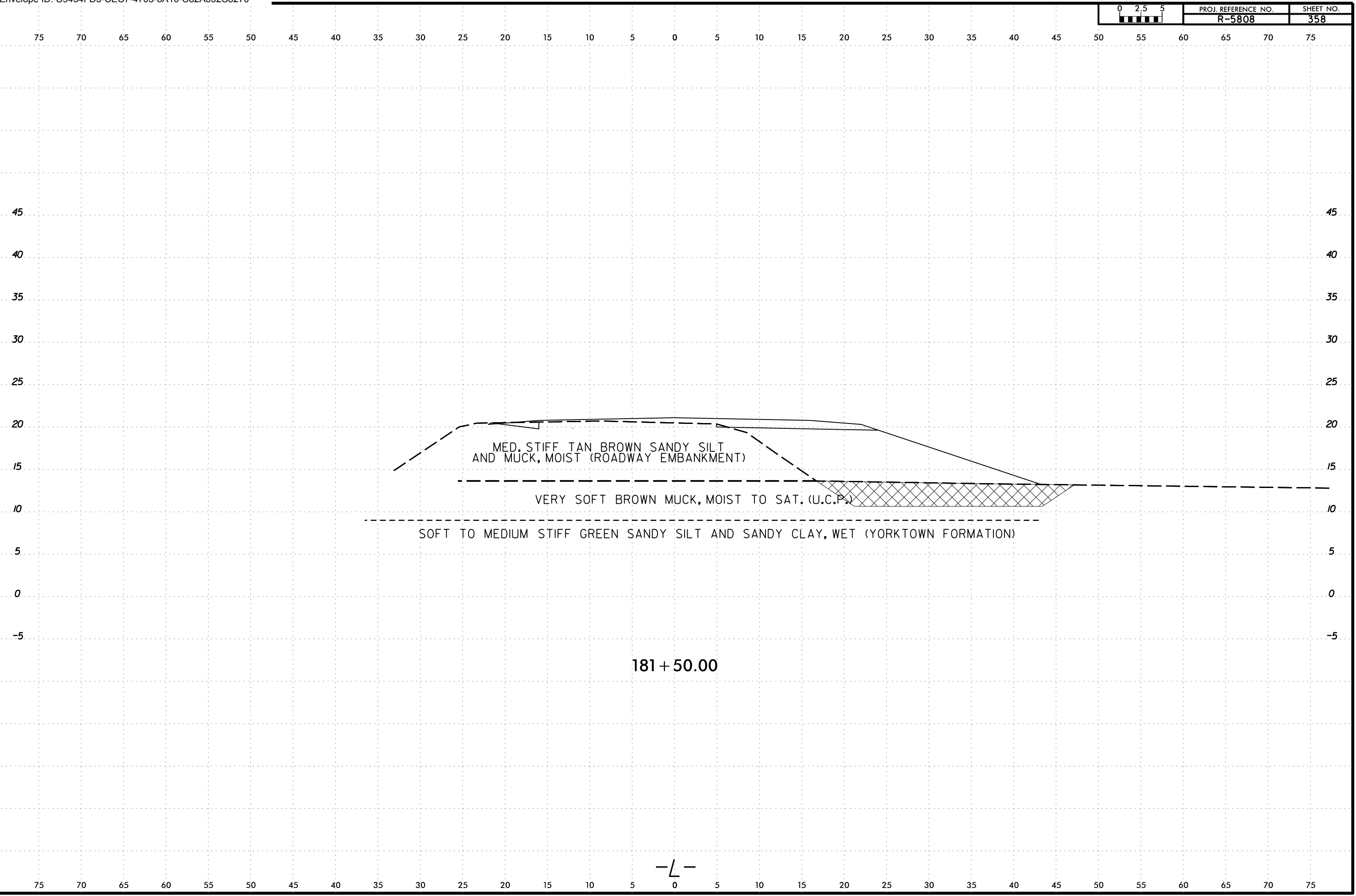
—L—



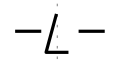
6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone

-L-

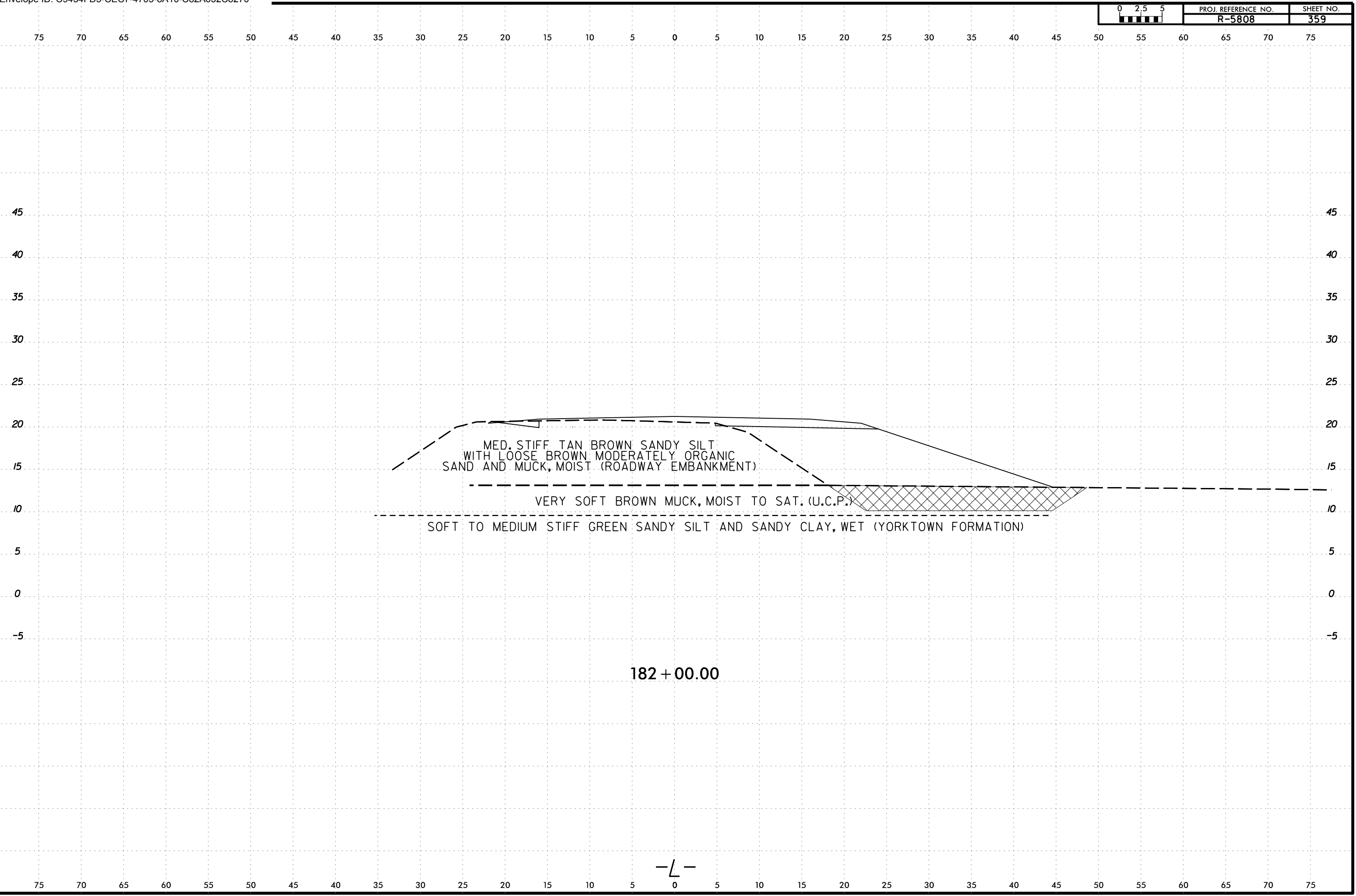
6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



181 + 50.00



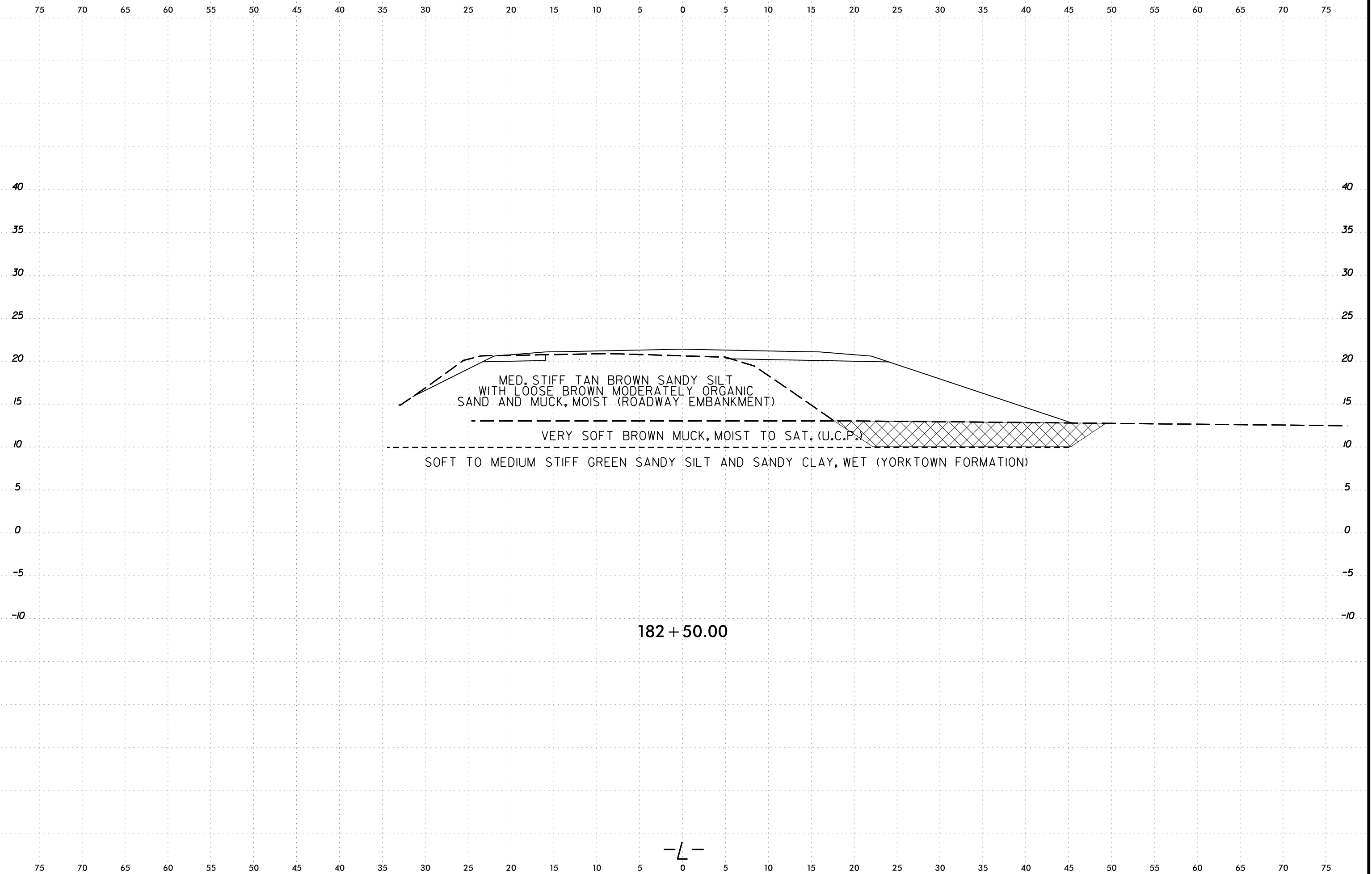
6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone



-L-

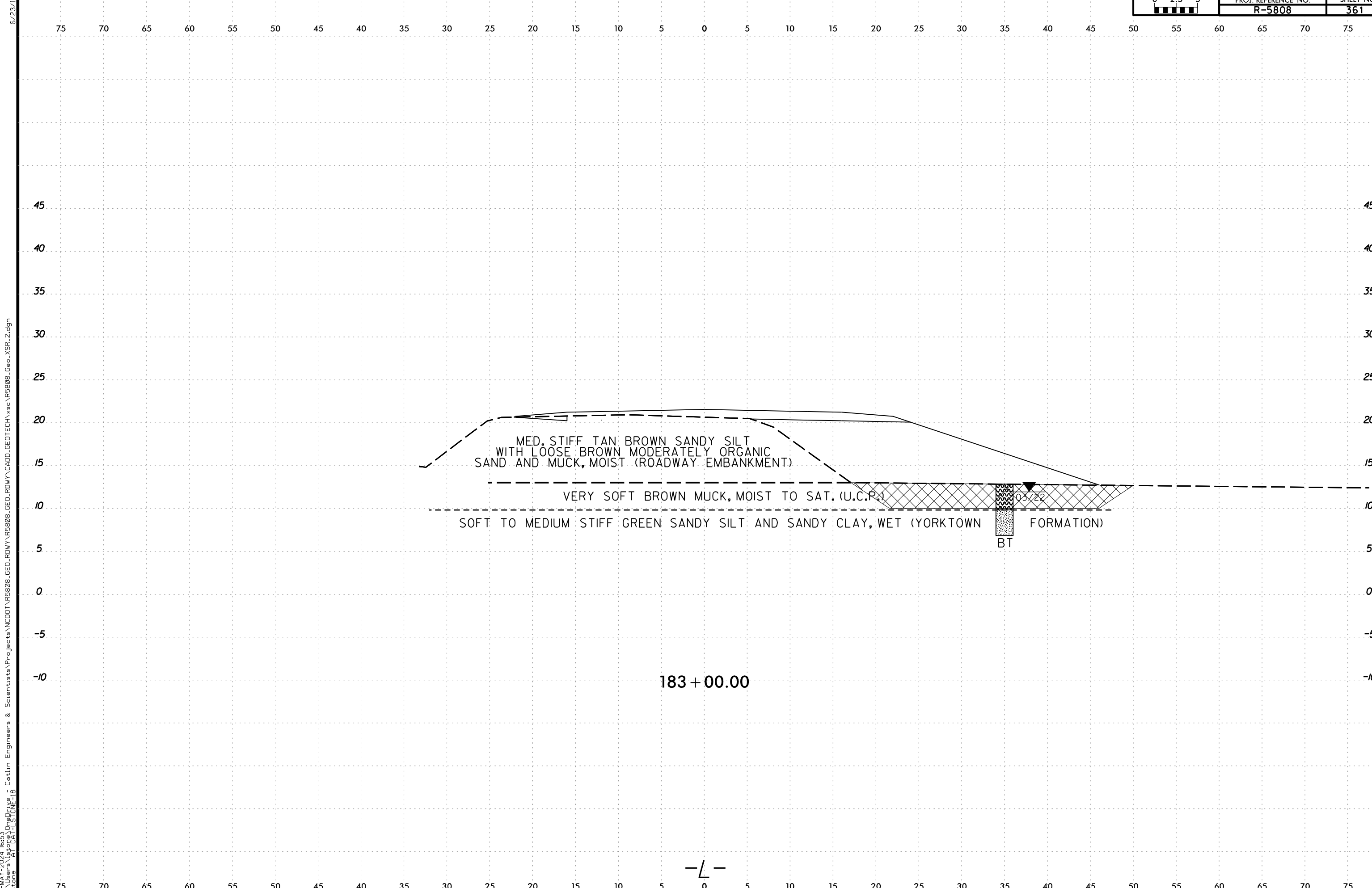
6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	360



-L-





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

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

BT

03/22

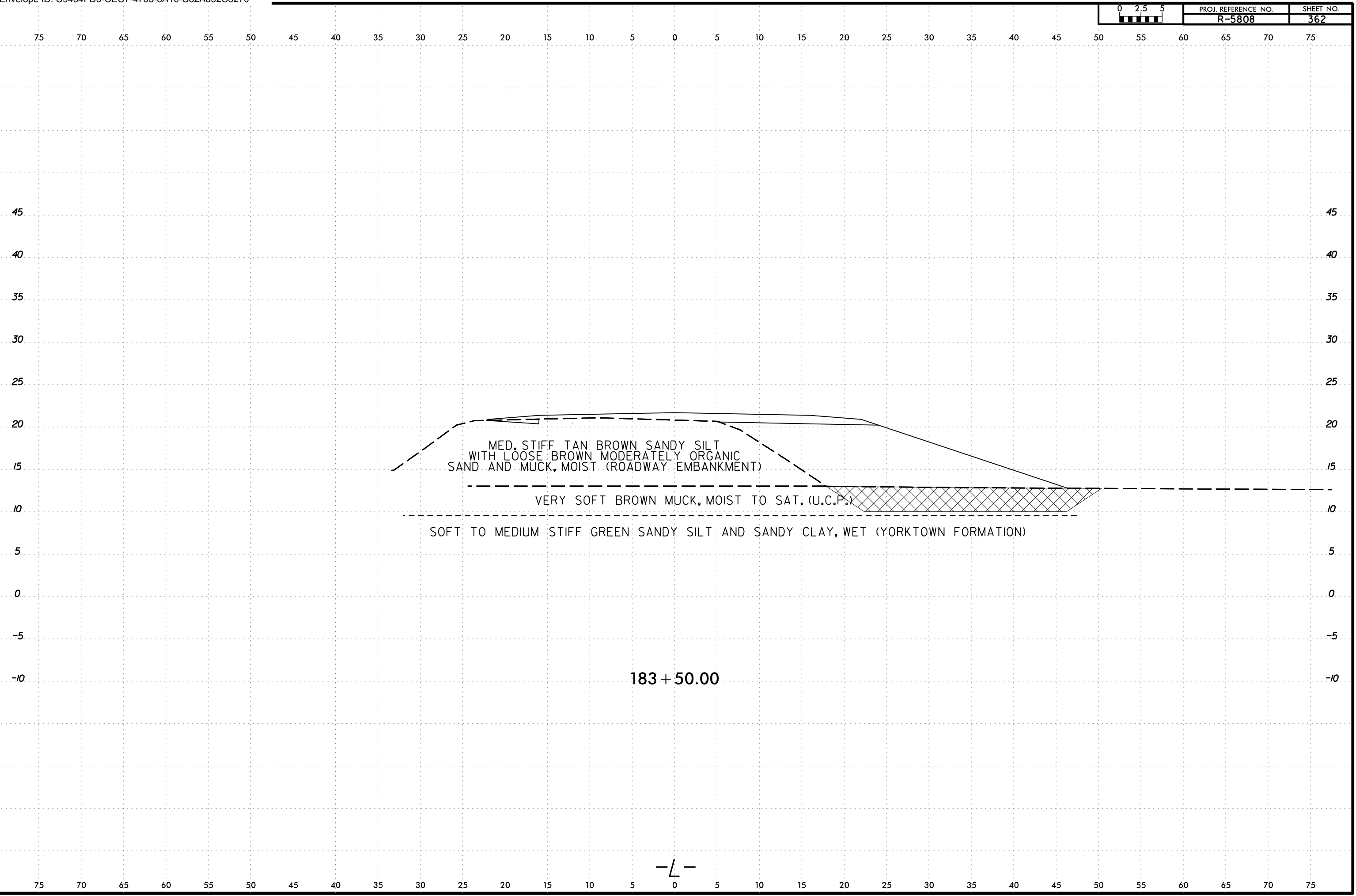
183 + 00.00

—L—

21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
 jstone

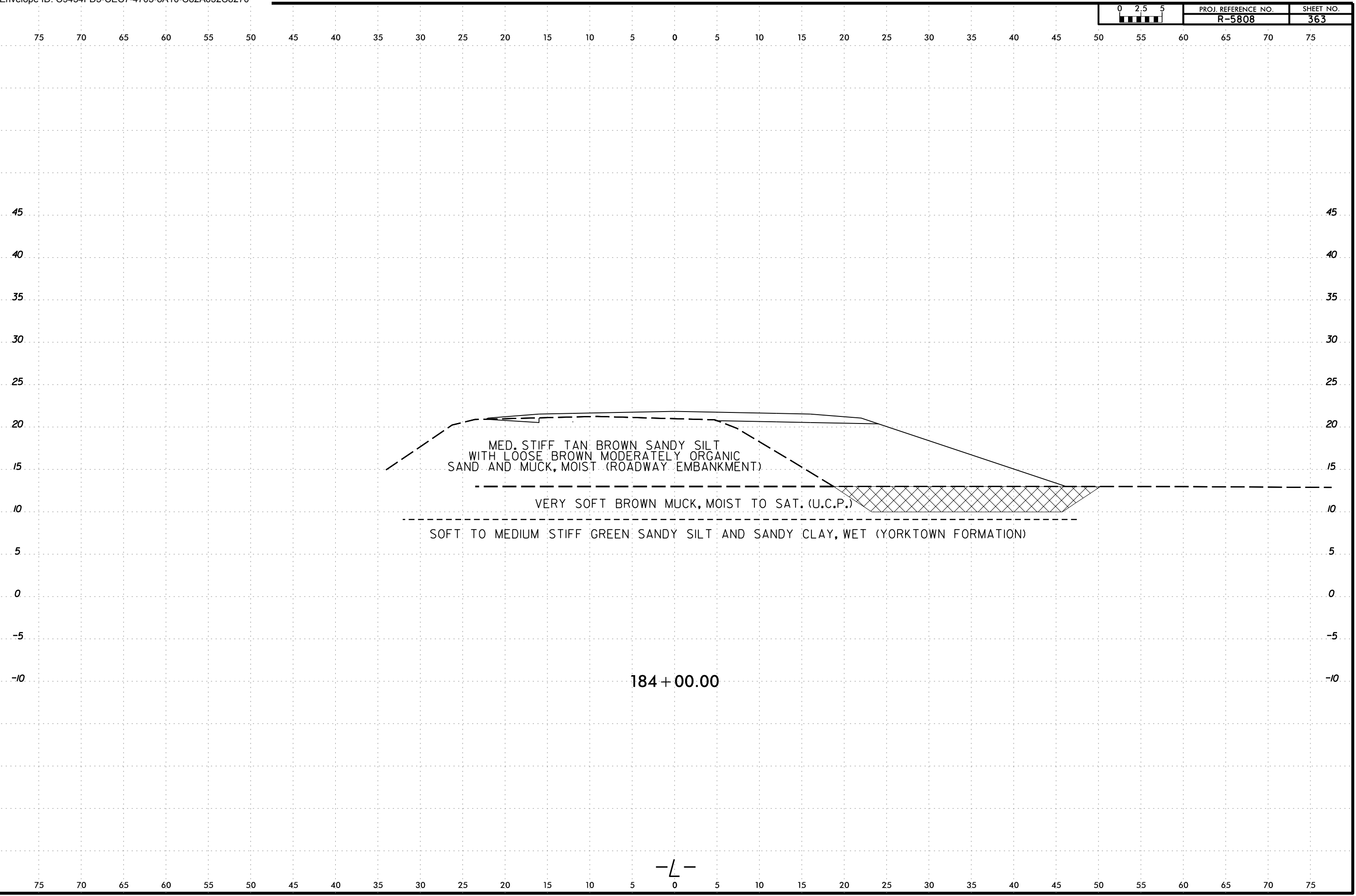
6/23/16

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



-L-

6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

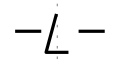


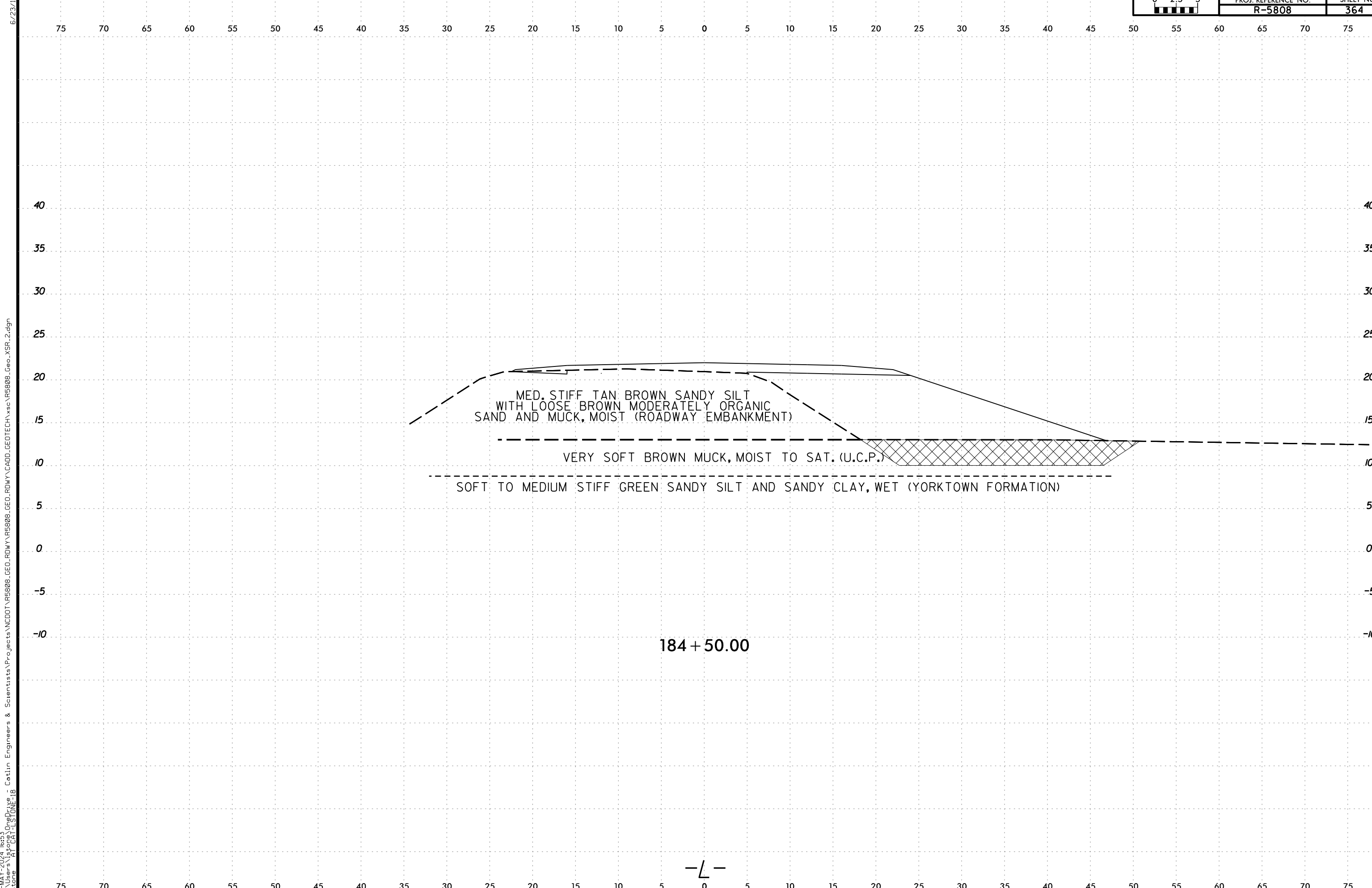
MED. STIFF TAN BROWN SANDY SILT  
WITH LOOSE BROWN MODERATELY ORGANIC  
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

184+00.00



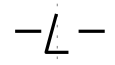


MED. STIFF TAN BROWN SANDY SILT  
WITH LOOSE BROWN MODERATELY ORGANIC  
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

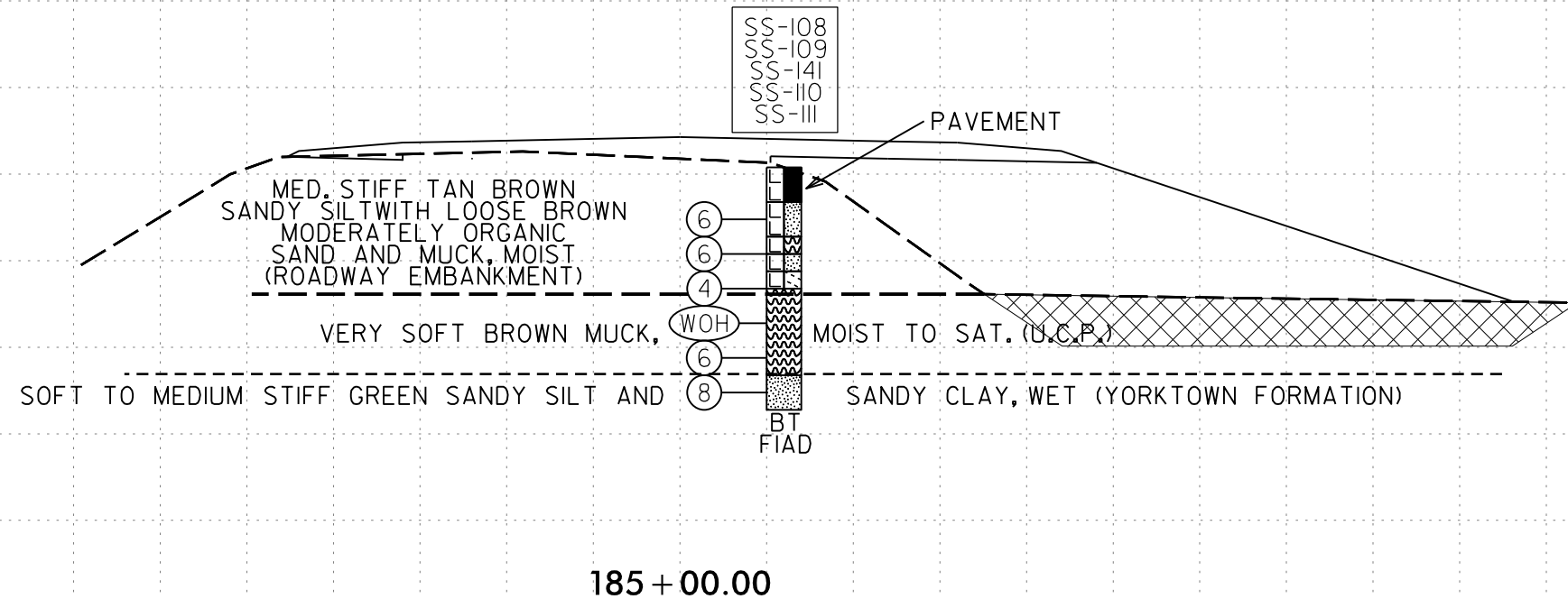
184 + 50.00



21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808\_GEO\_XSR\_2.dgn  
 jstone

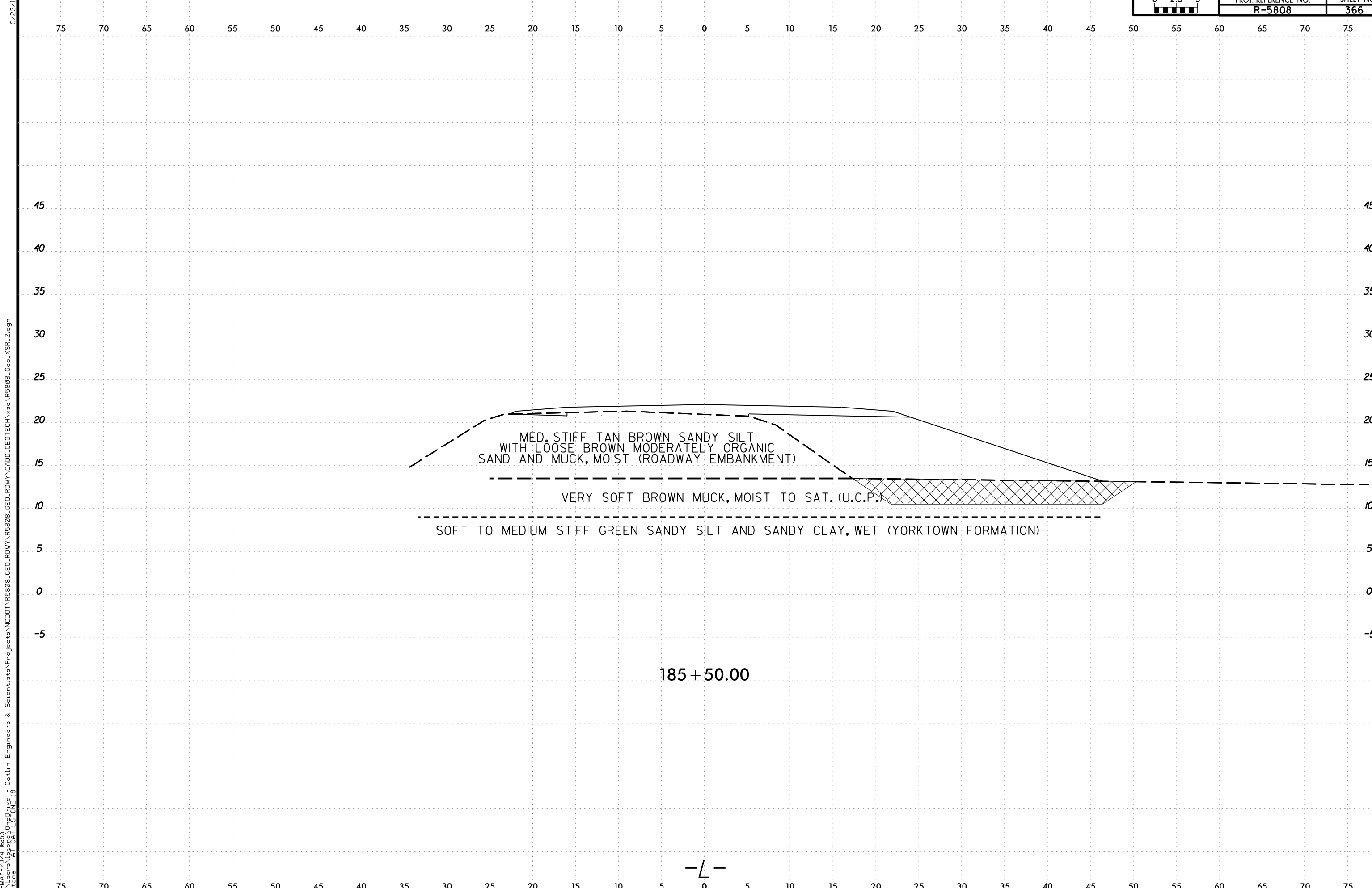
6/23/16

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-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	89.6	82	65	-	20.9
SS-141	6 ft RT	185+00	5.0 - 6.0	A-4(0)	NP	NP	13.0	44.4	29.6	12.9	99.4	99	48	-	-
SS-110	6 ft RT	185+00	6.0 - 7.0	A-2-4(0)	NP	NP	18.8	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



21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\185808\_GEO\RDWY\185808\_GEO\RDWY\CADD\GEO\TECH\SSC\185808\_GEO\_XSR\_2.dgn  
 jstone

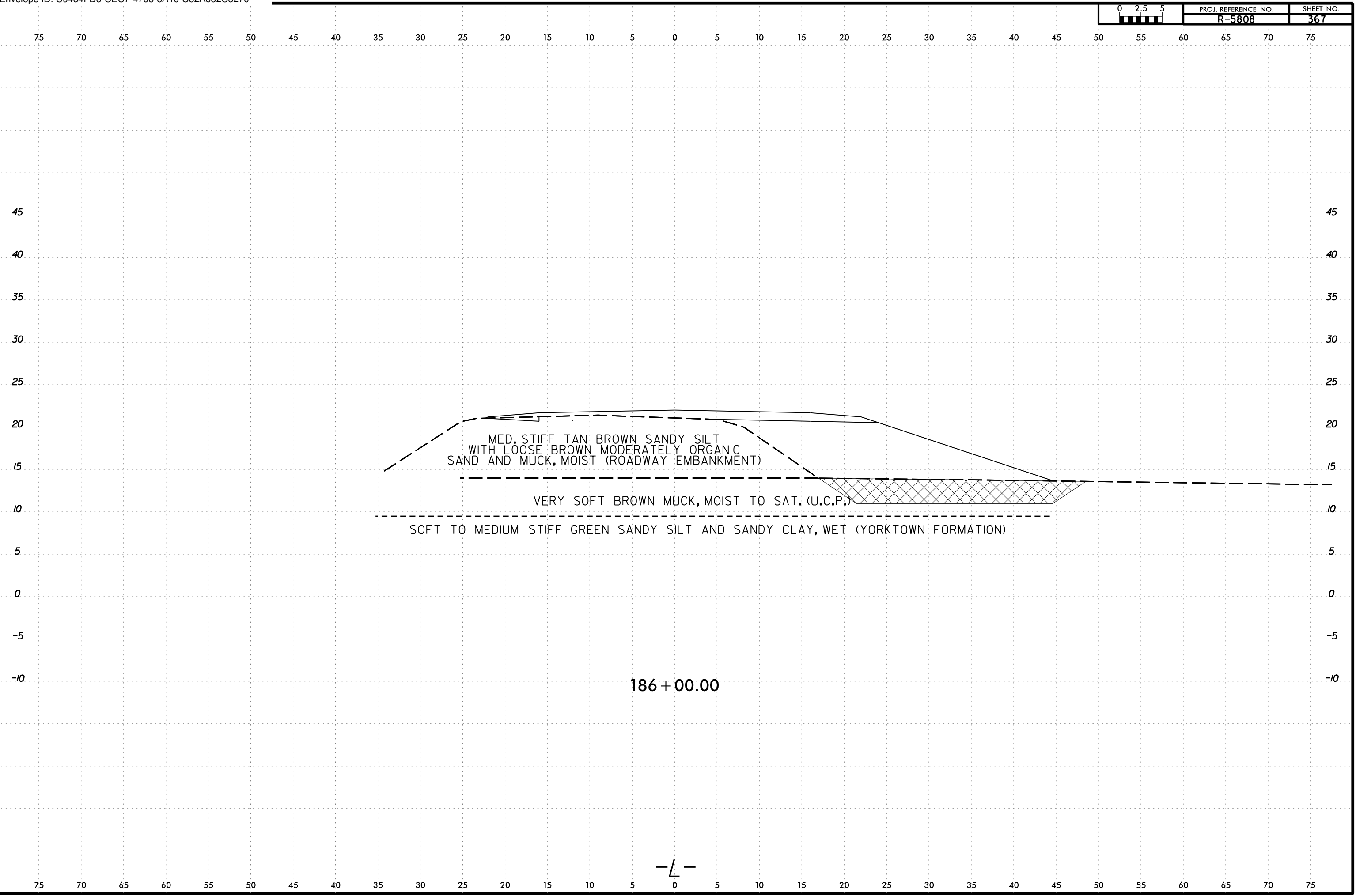
6/23/16



21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
 jstone

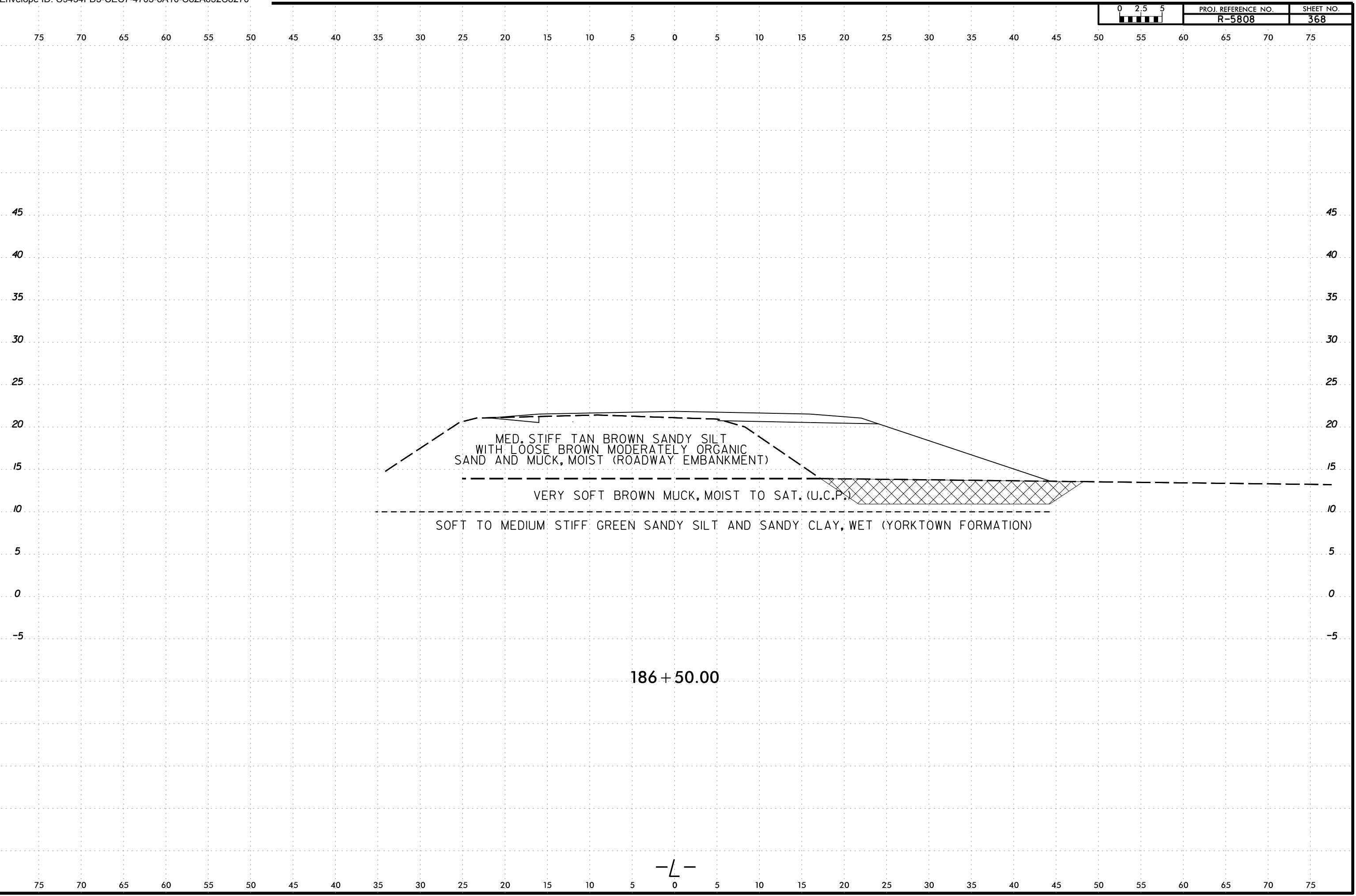
—L—

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



—L—

6/23/16  
2\MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808L\_Geo\_XSR\_2.dgn  
jstone

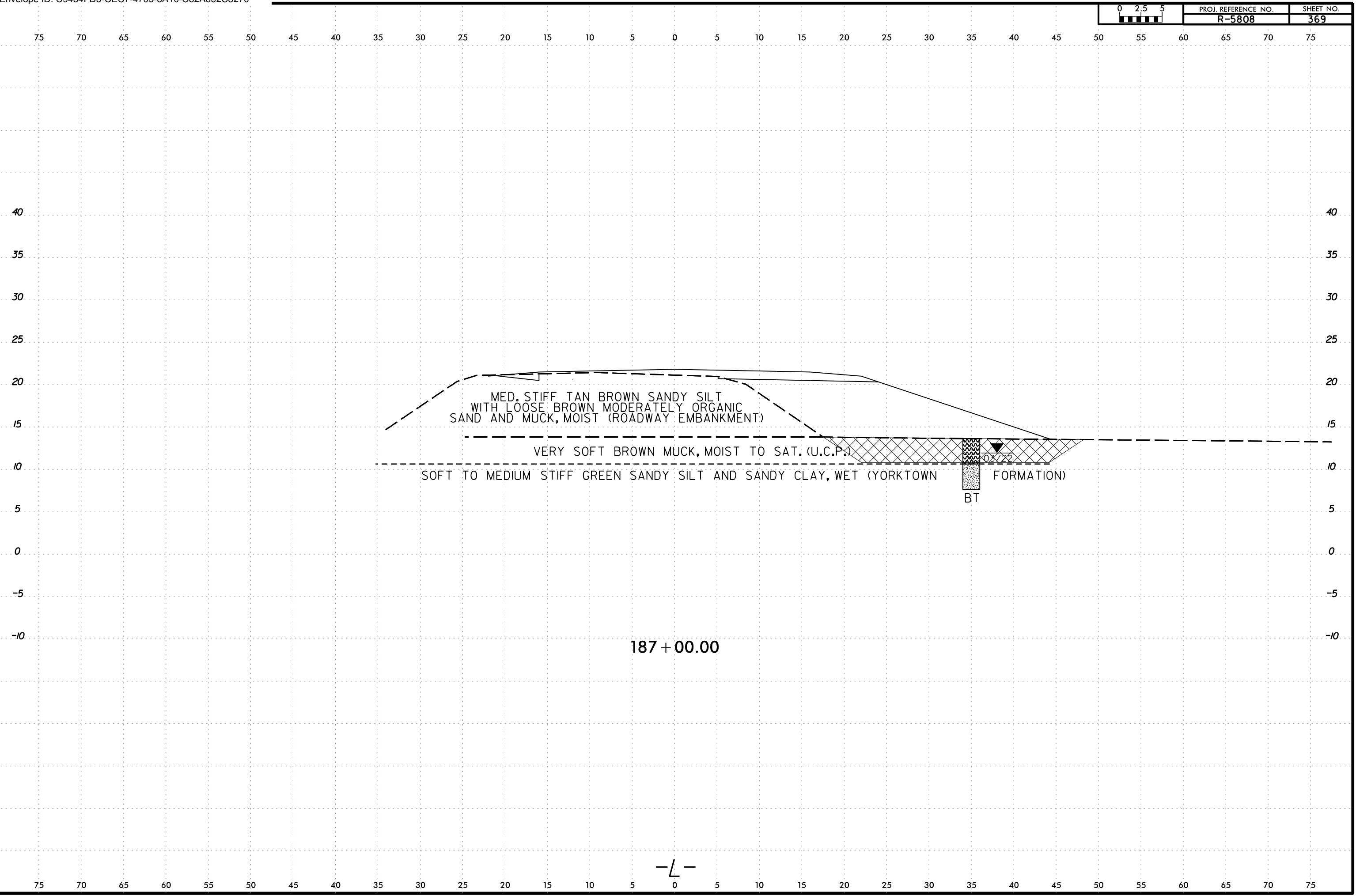


186 + 50.00

-L-

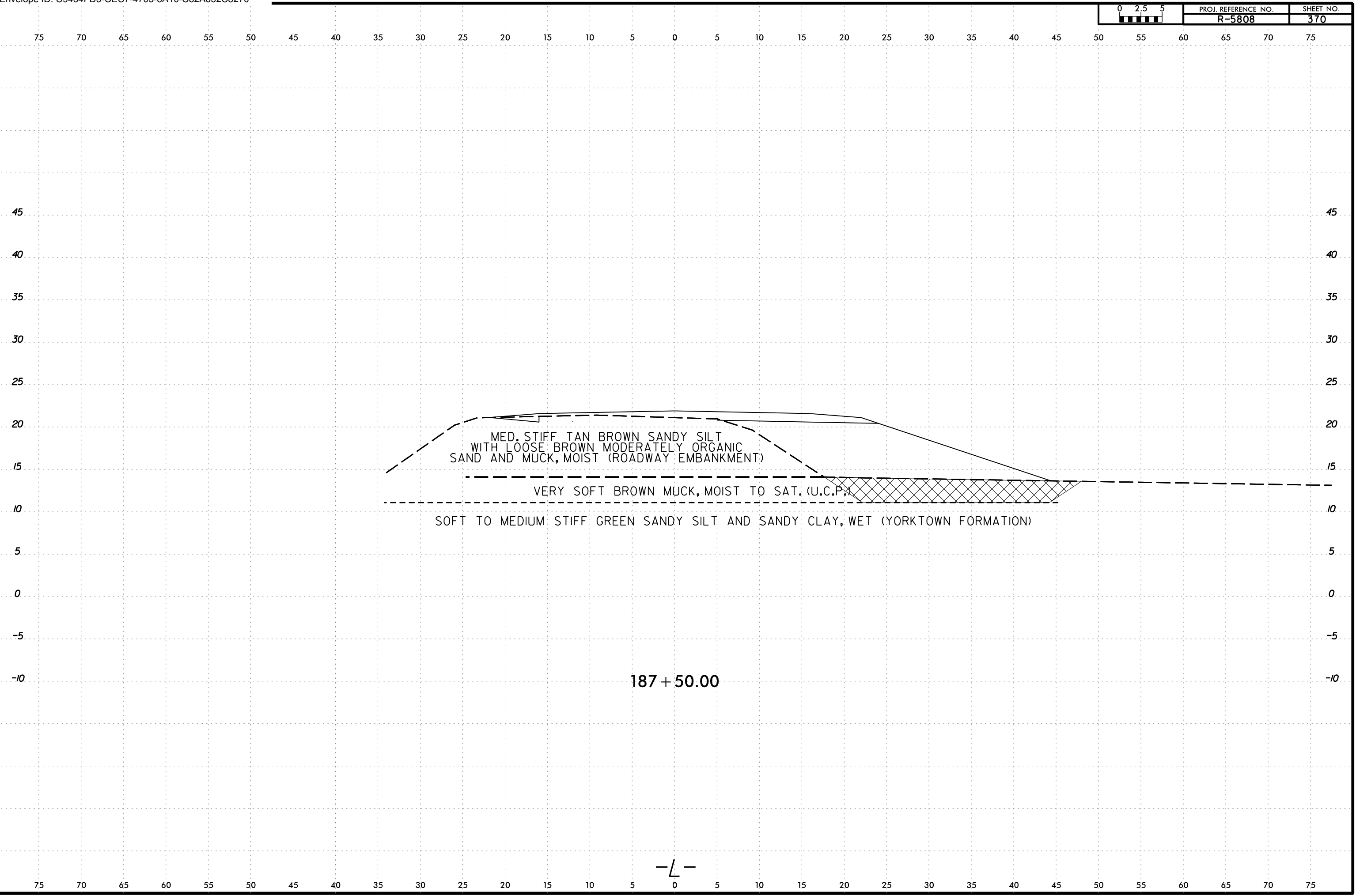


6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone



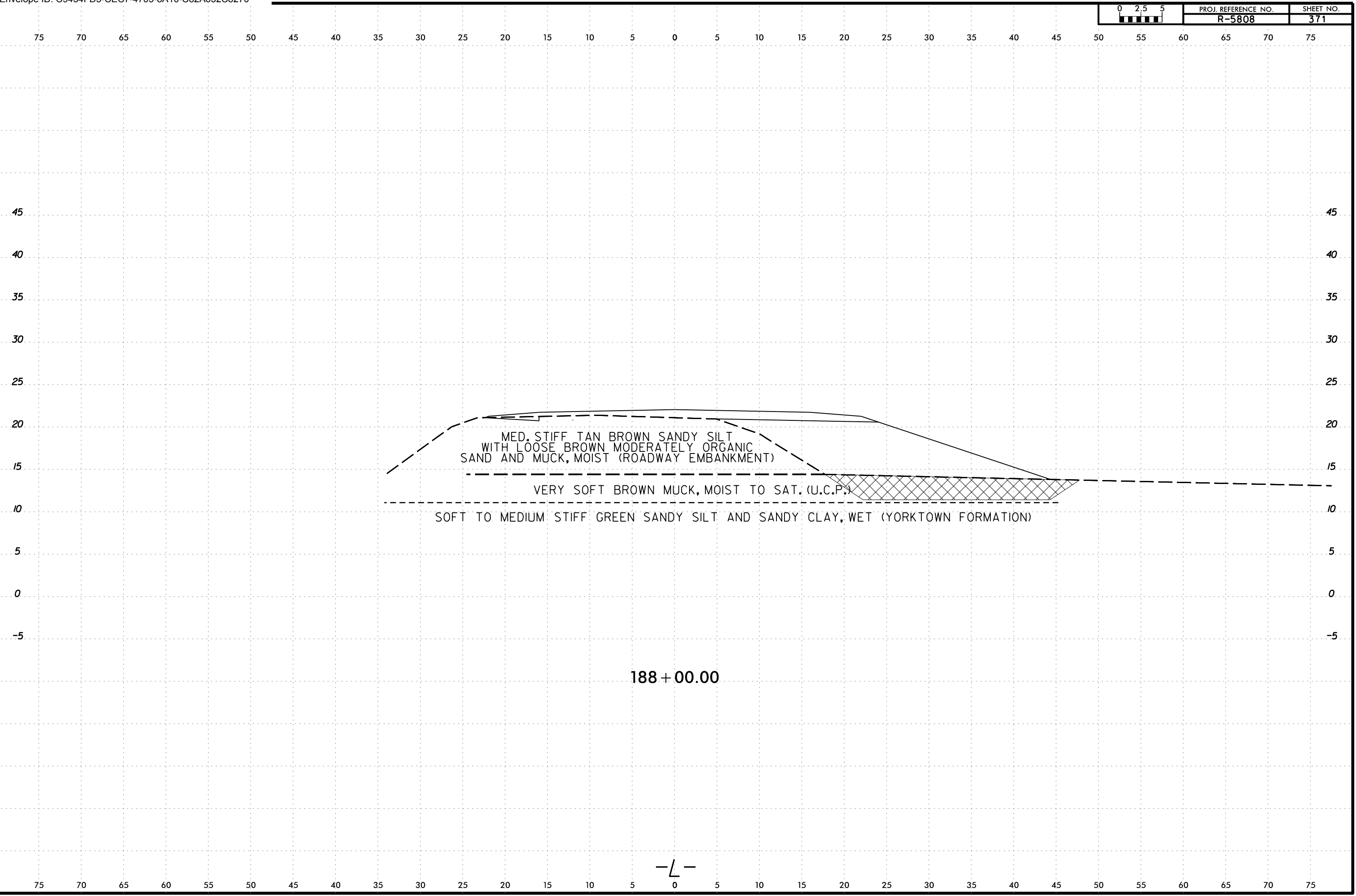
-L-

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone



-L-

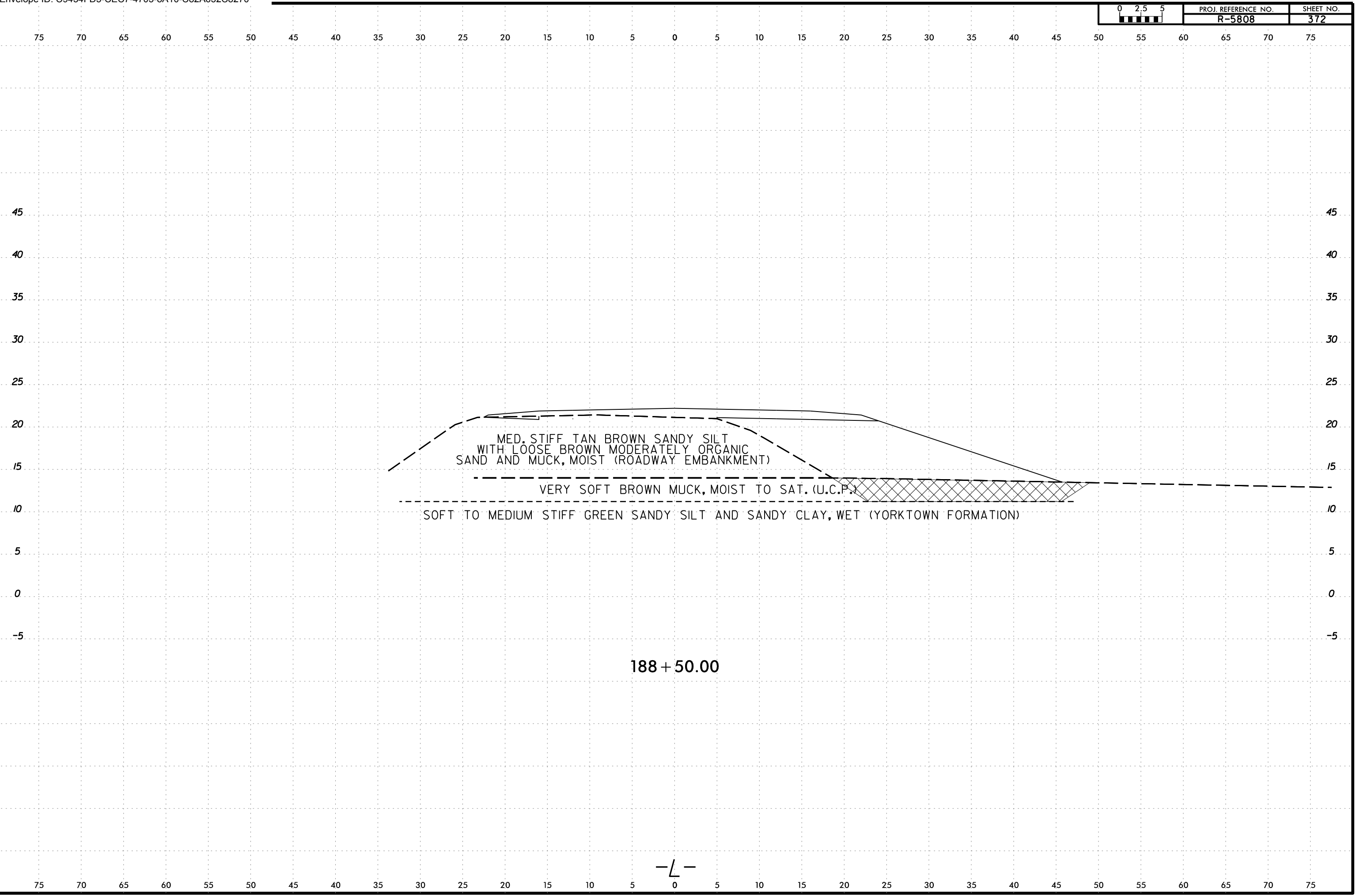
6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone



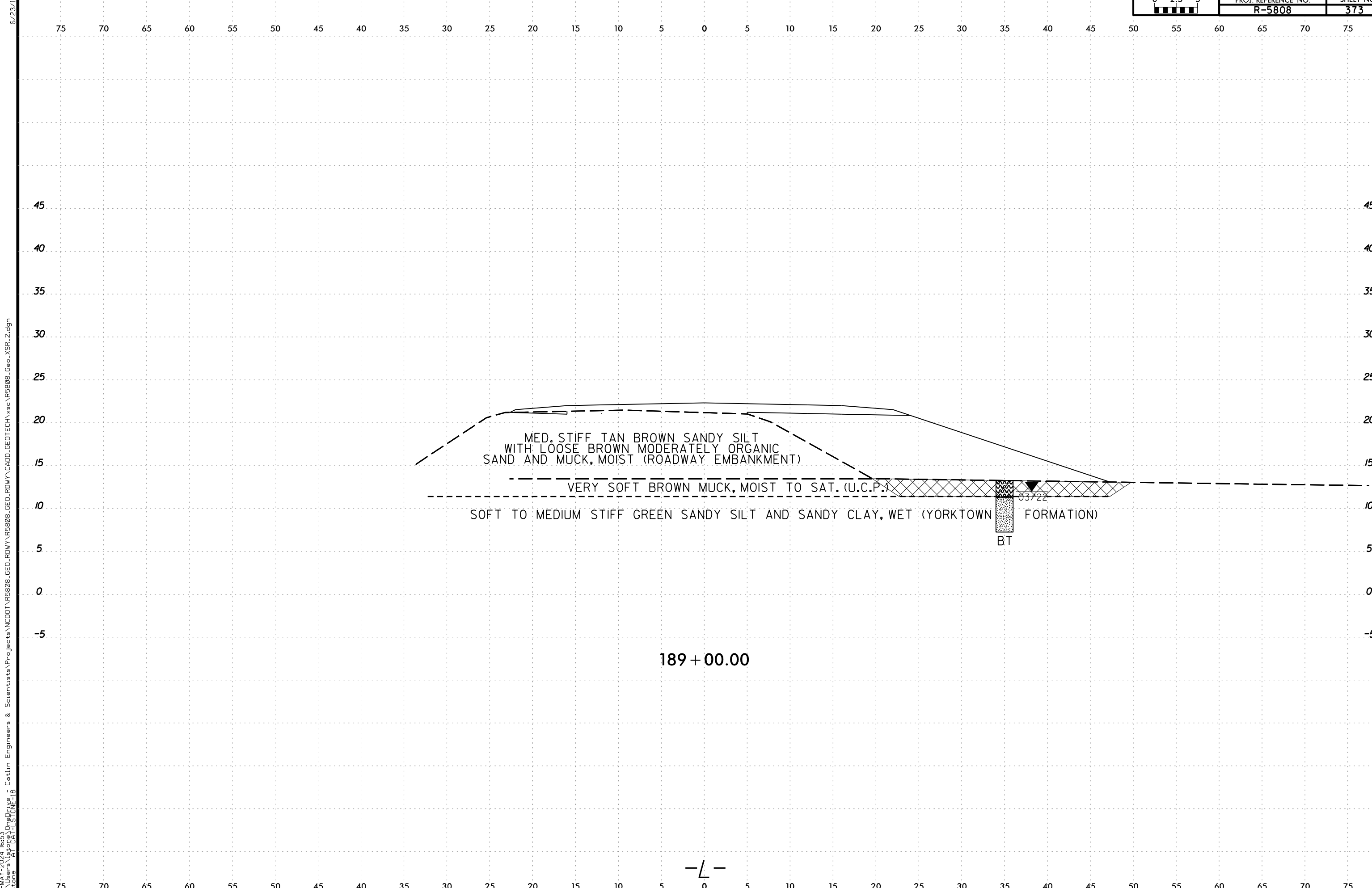
188 + 00.00

-L-

6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808L\_Geo\_XSR\_2.dgn  
jstone



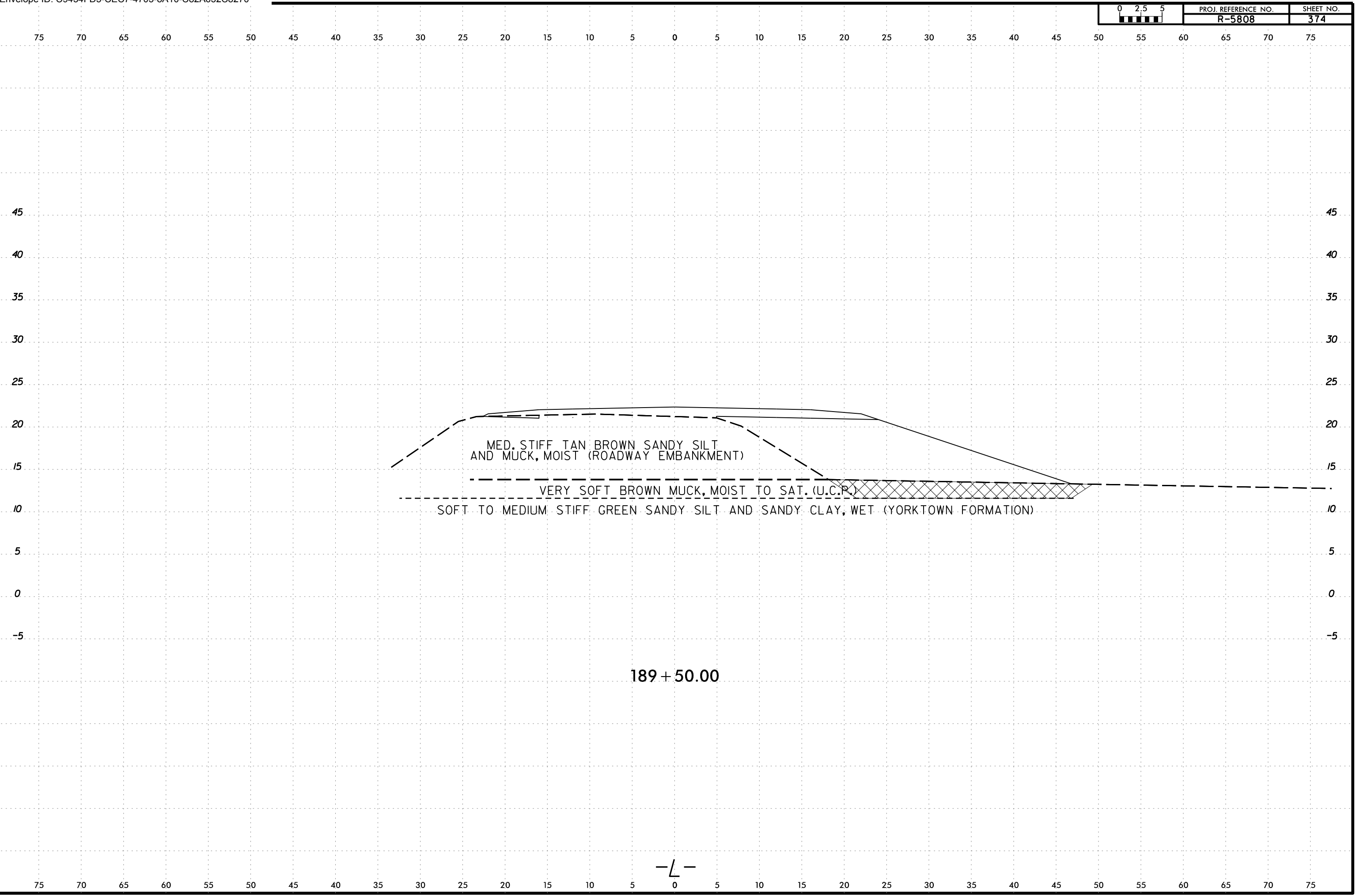
-L-



21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
 jstone  
 AT CAT-1 STONE-18

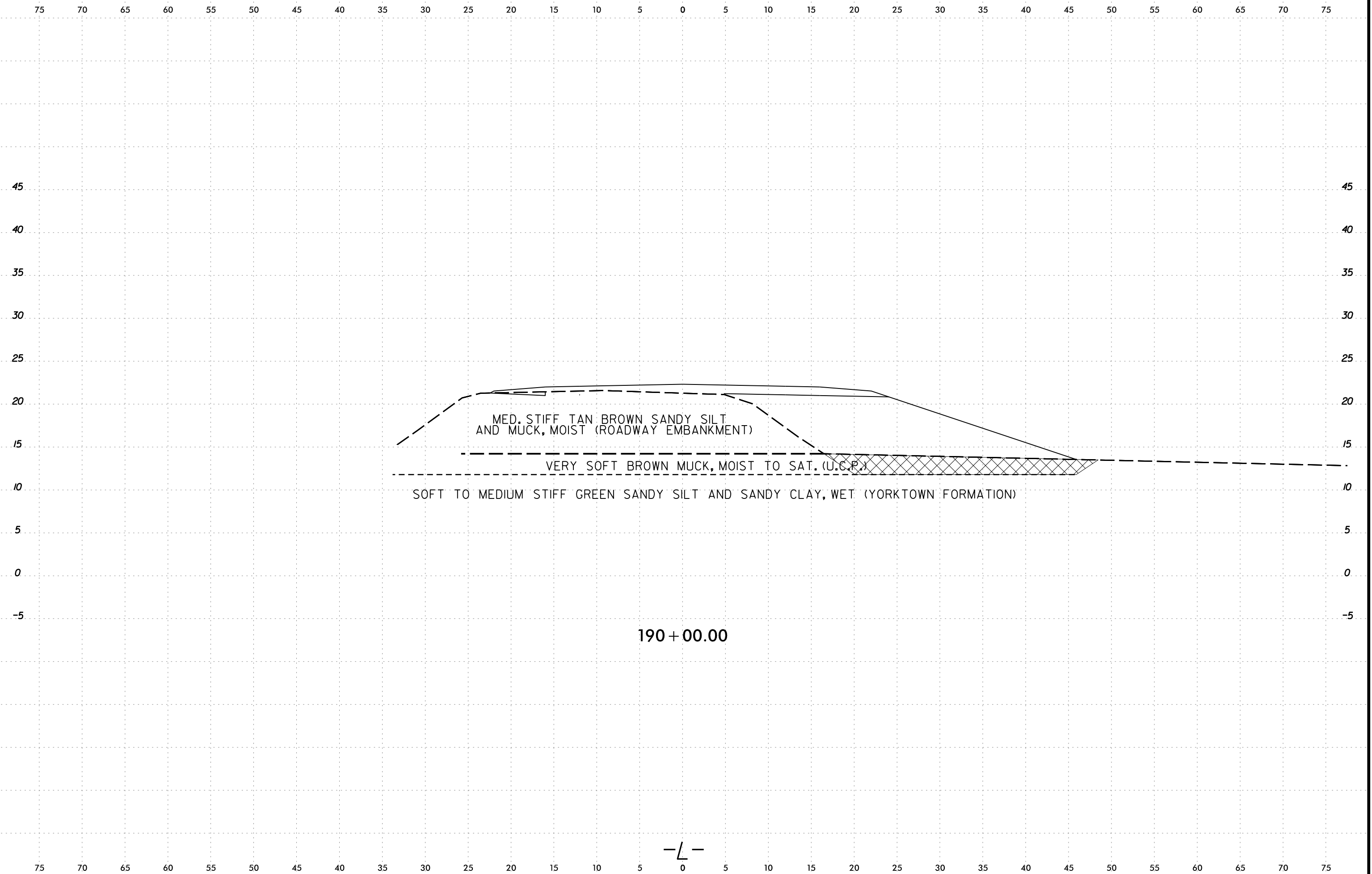
-L-

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone

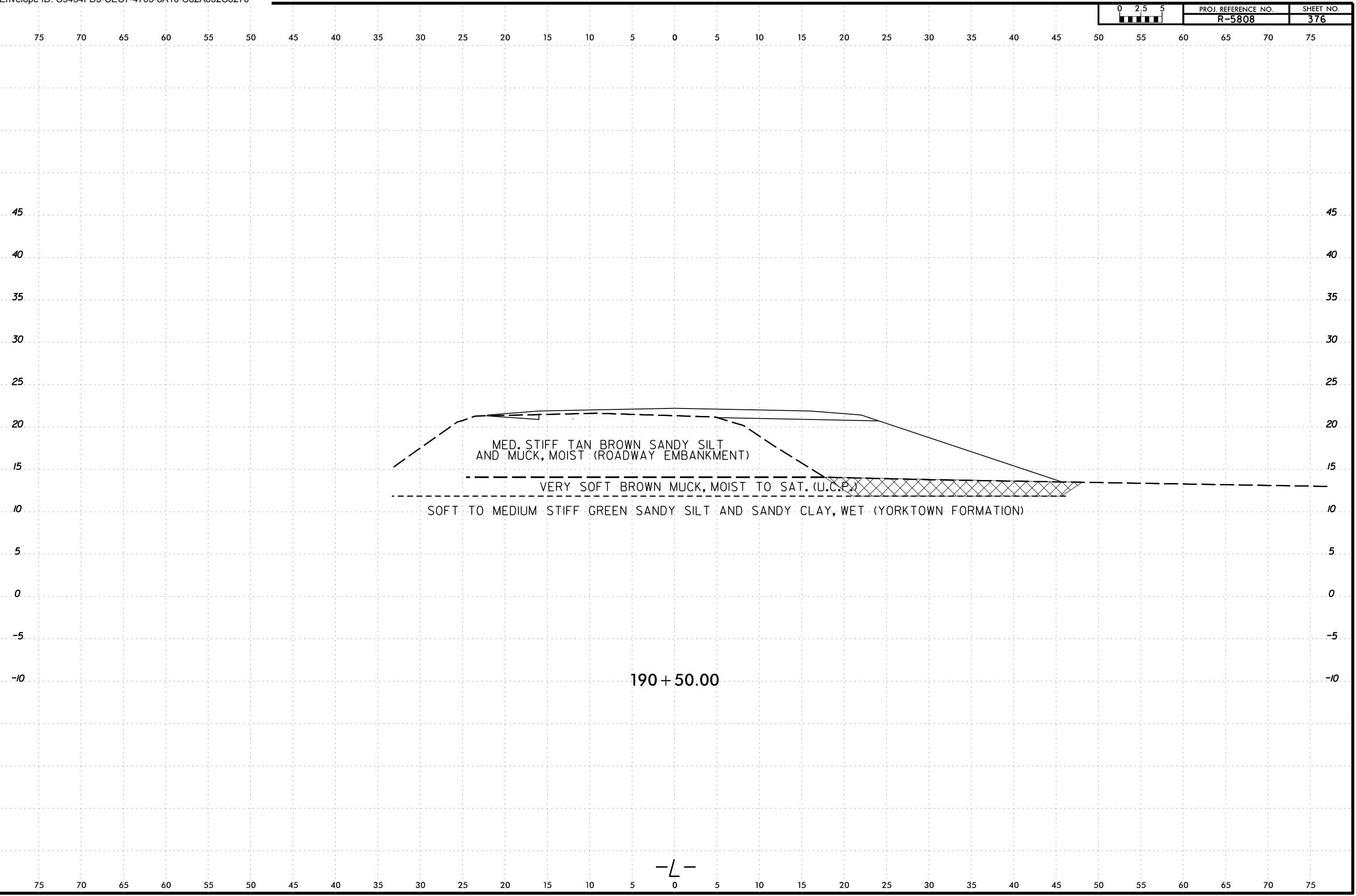


6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	375



6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone





75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45

45

40

40

35

35

30

30

25

25

20

20

15

15

10

10

5

5

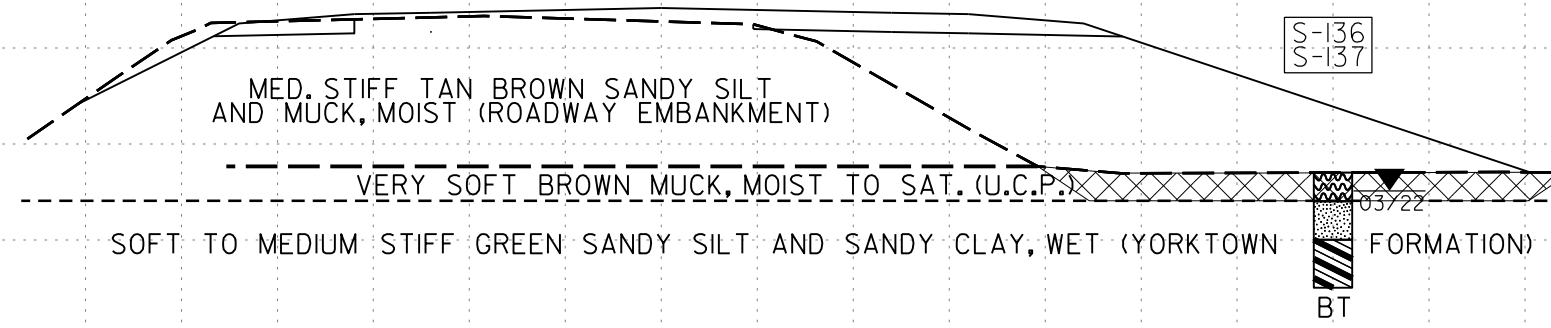
0

0

-5

-5

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-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	-	-



S-136  
S-137

037'22"

BT

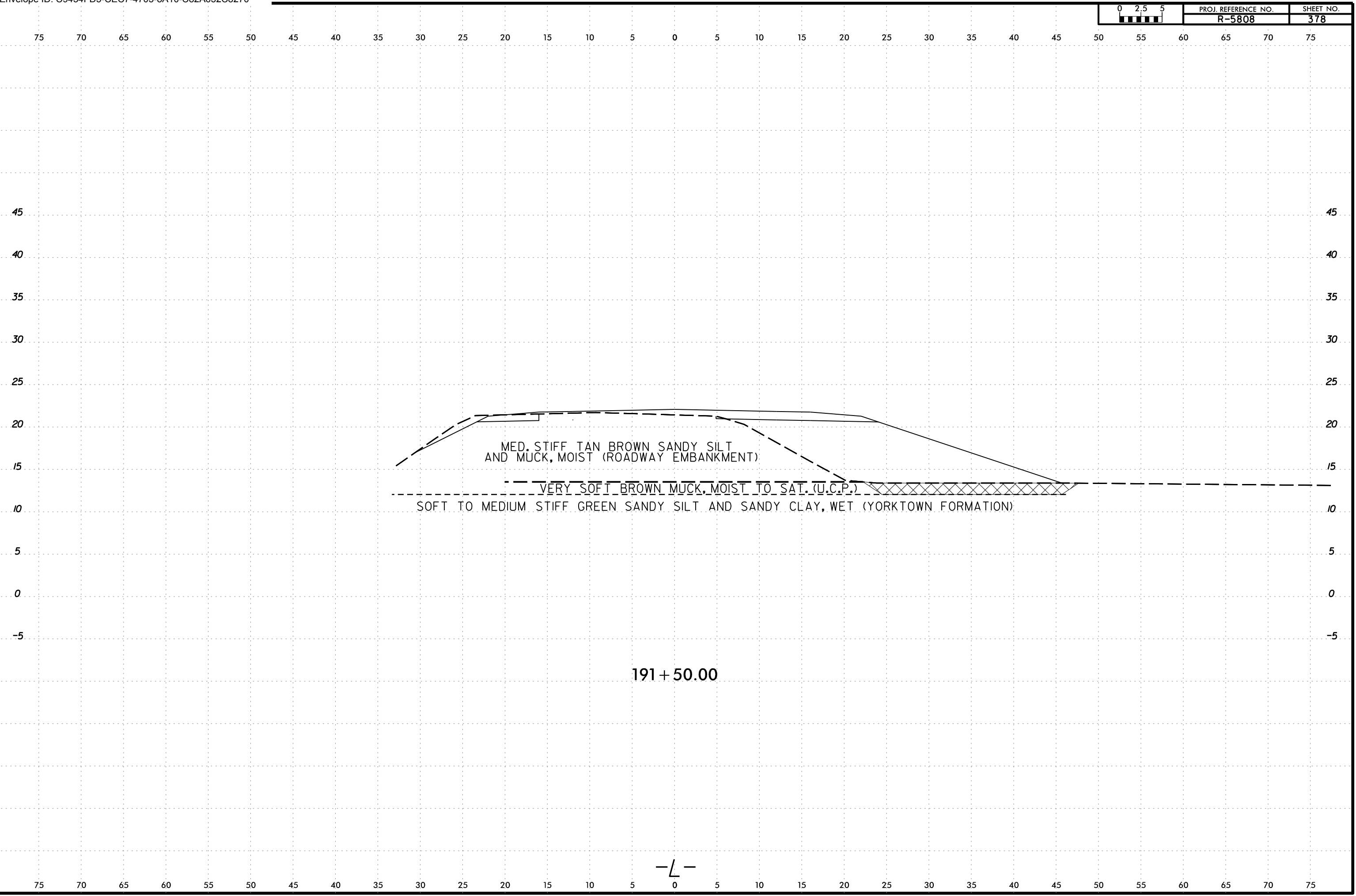
191 + 00.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

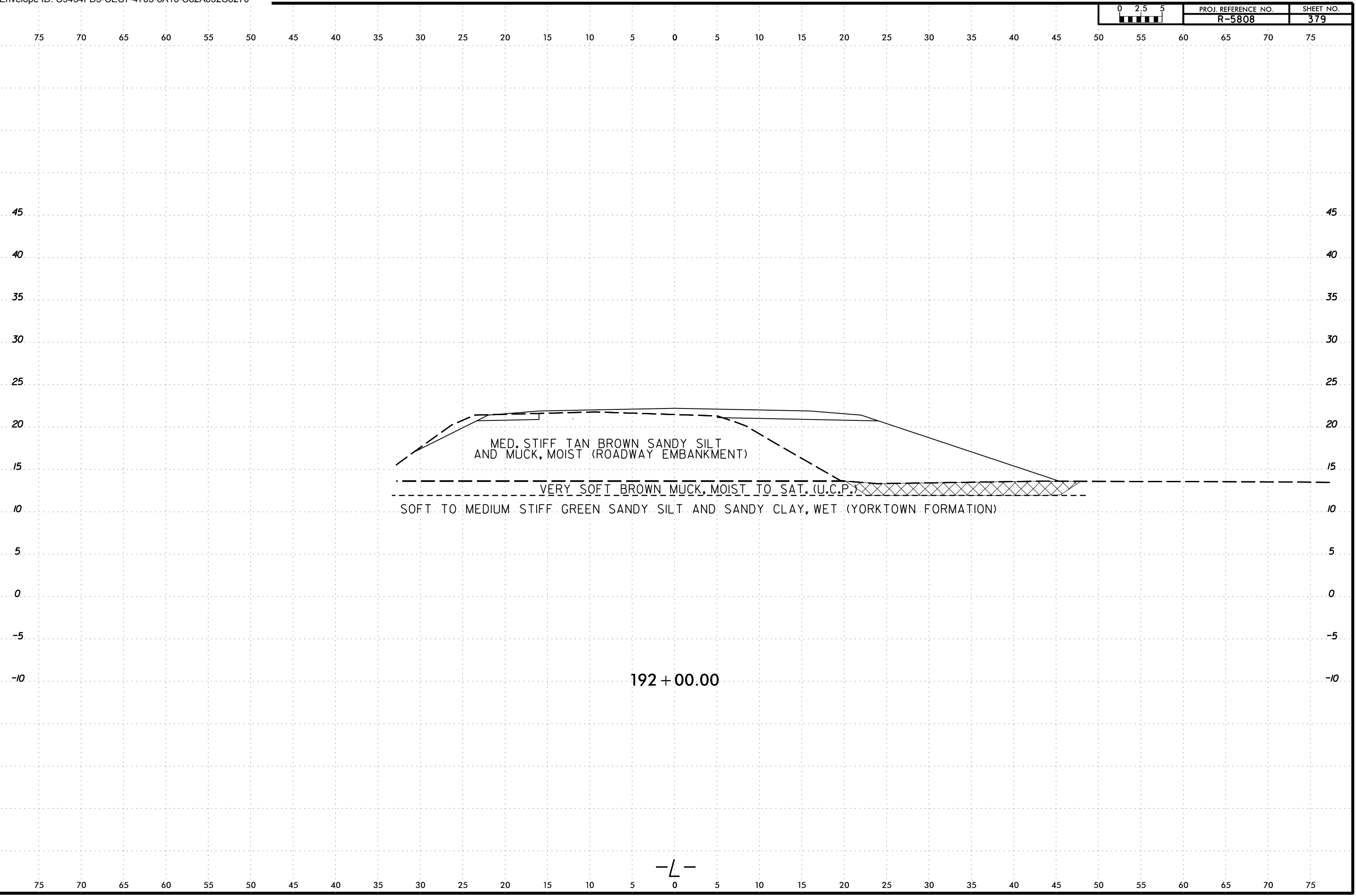
6/23/16  
2-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDOT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\CADD\_GEO\RDWY\XSR\_2.dgn

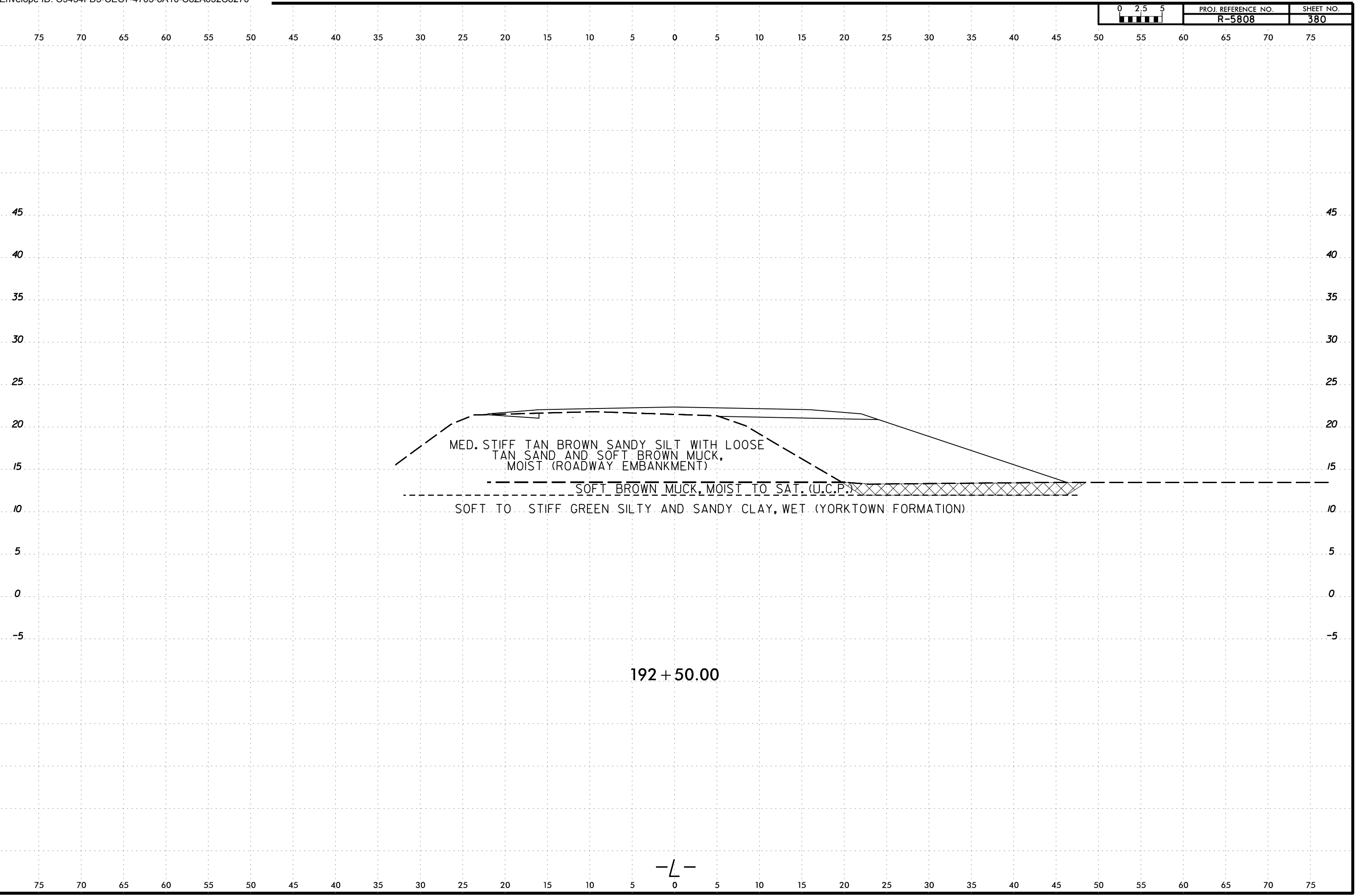


-L-

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



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

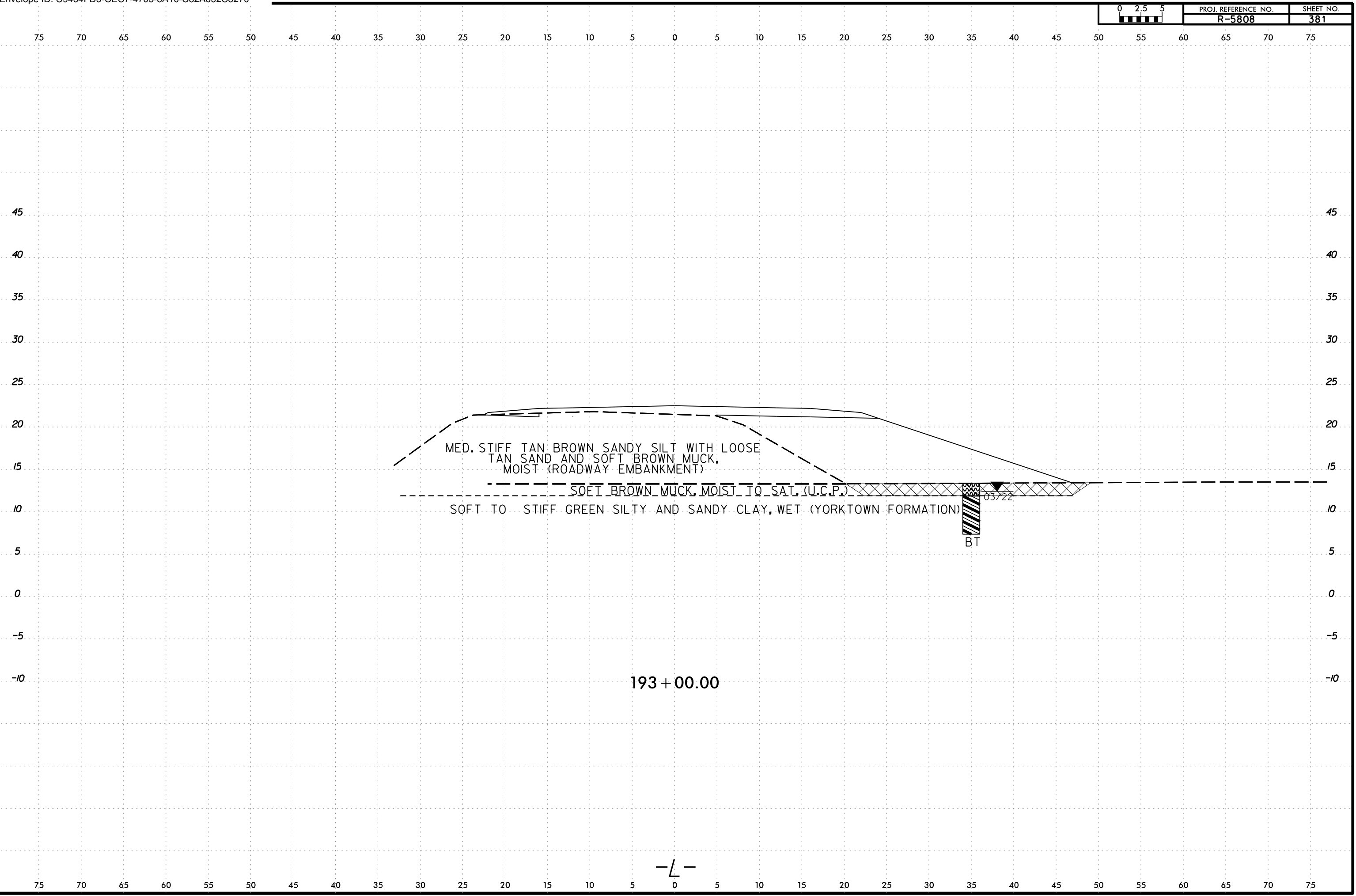
SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

192 + 50.00

-L-

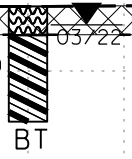
6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone



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

SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

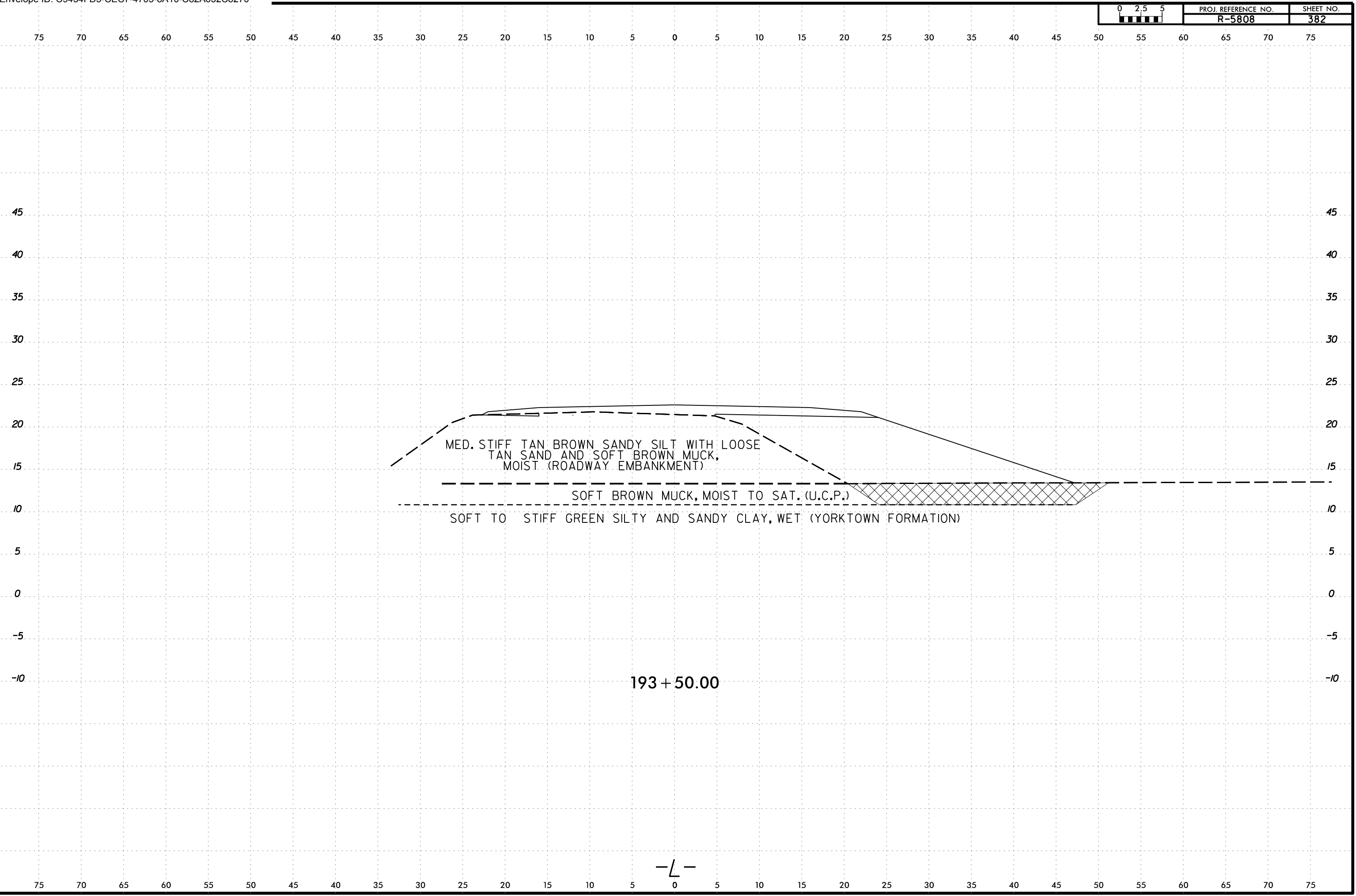
SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)



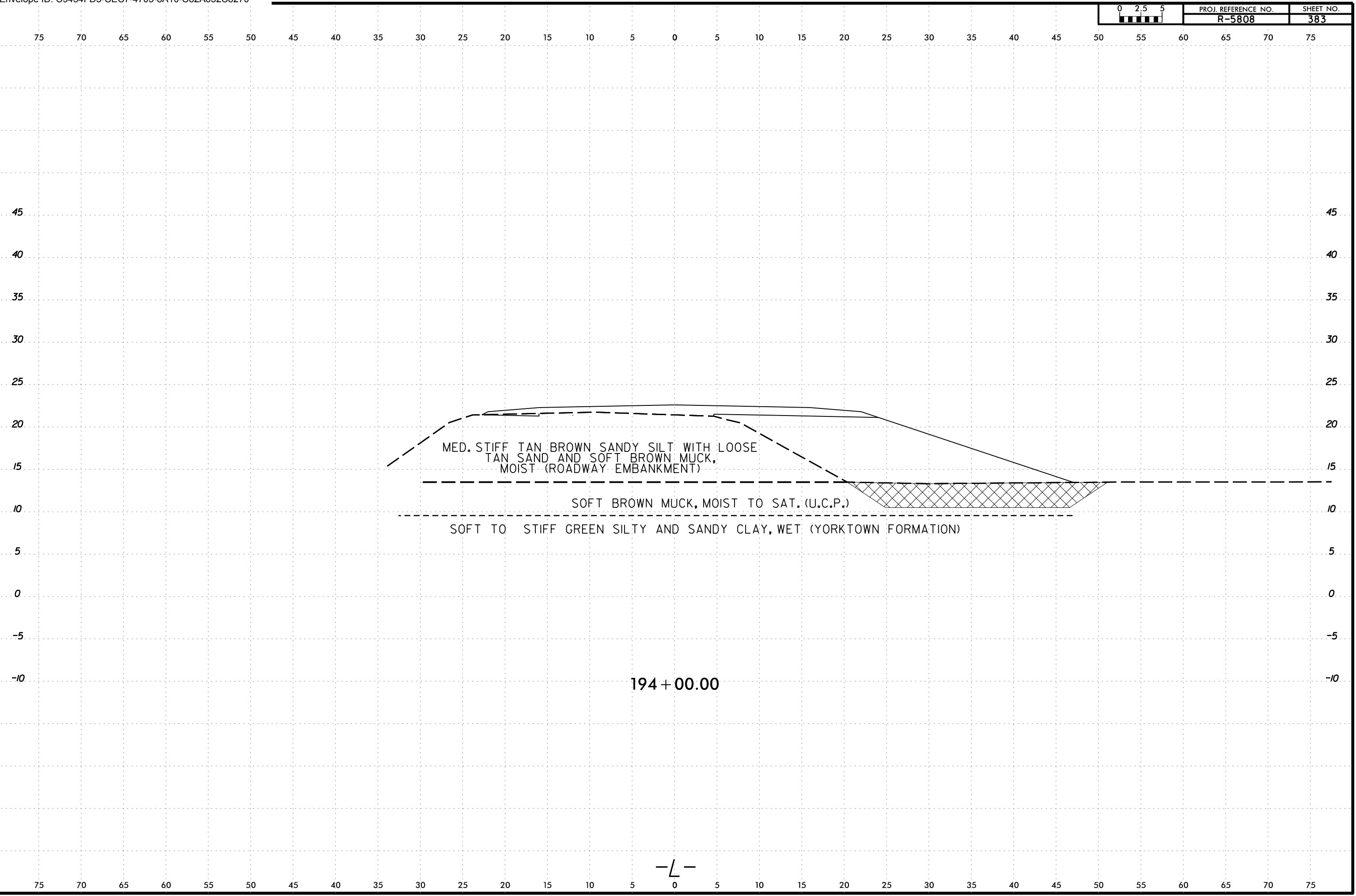
193 + 00.00

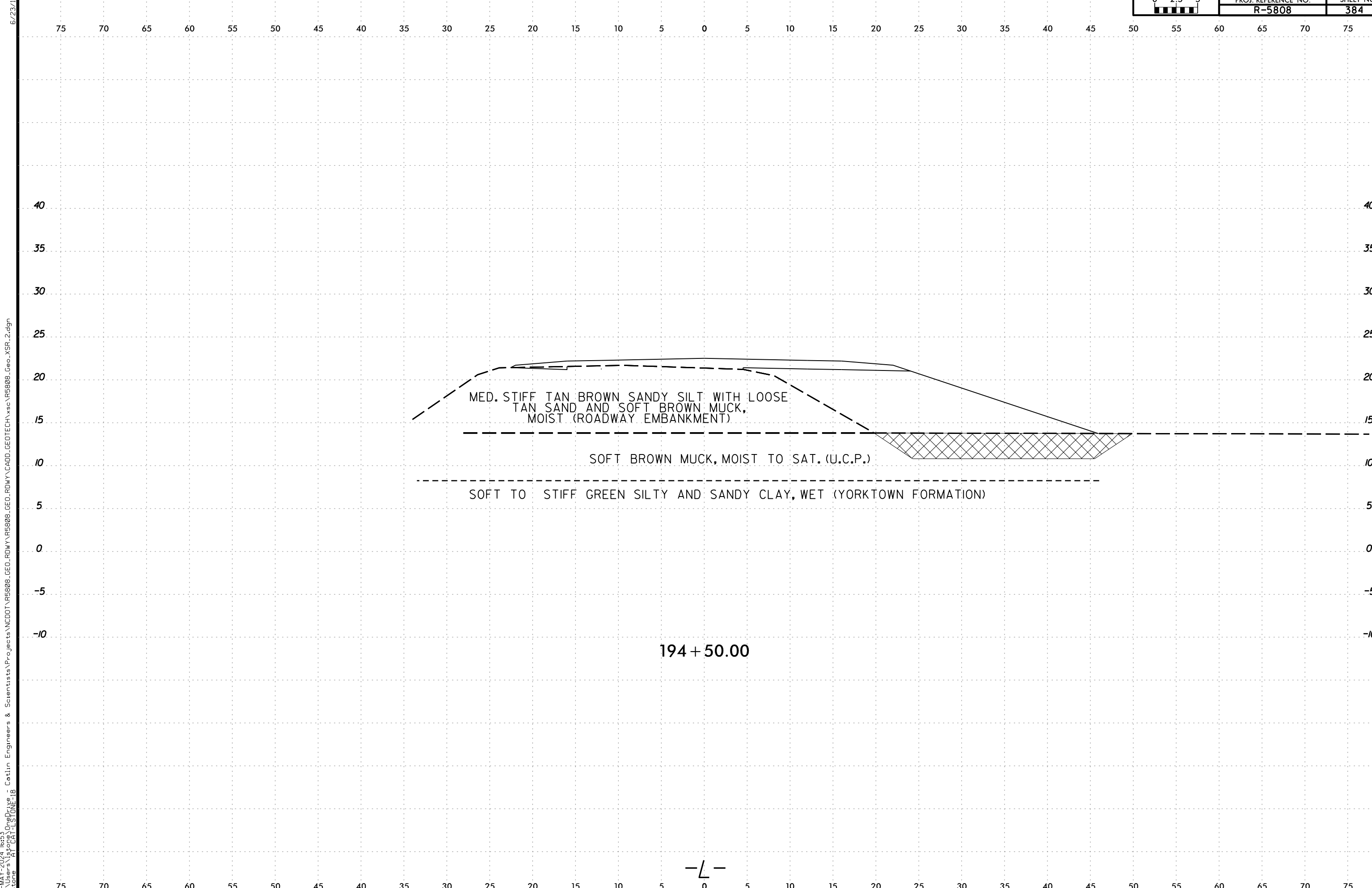
-L-

6/23/16  
2\MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



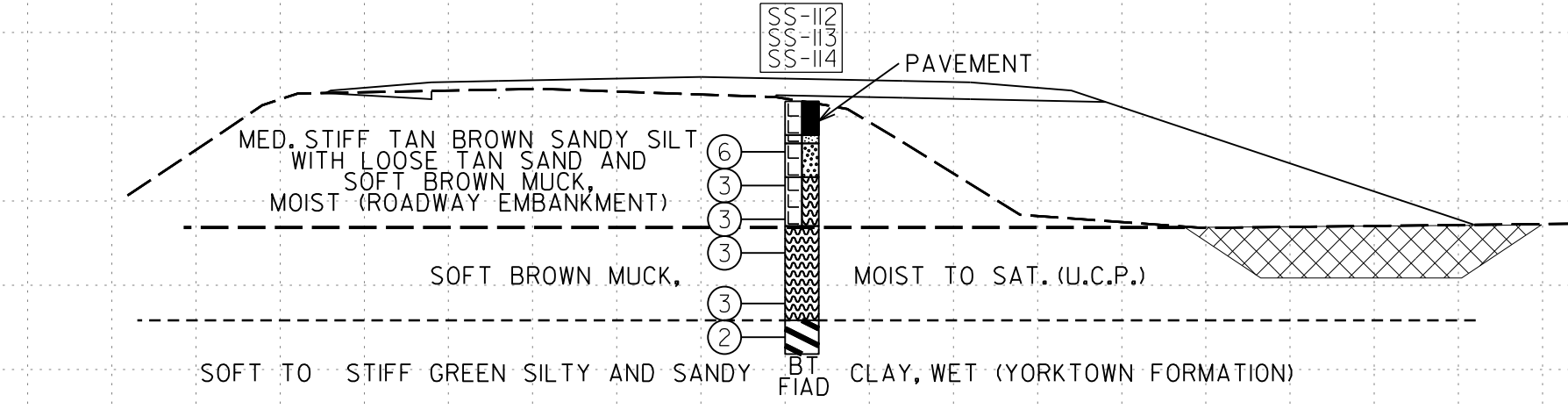


21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
 jstone  
 AT CAT-1 STONE-18

6/23/16



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-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(9)	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	-	-



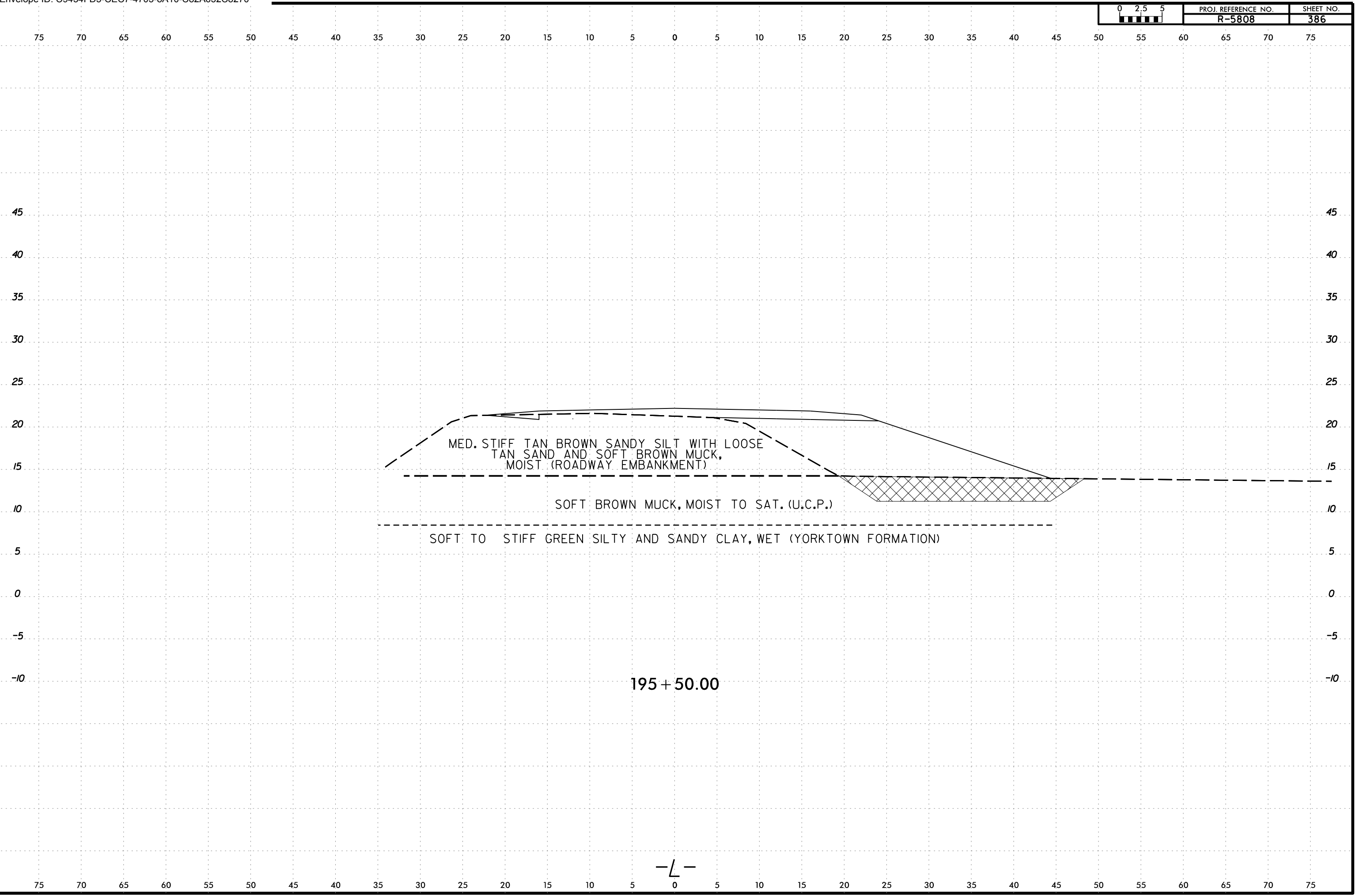
195 + 00.00

-L-

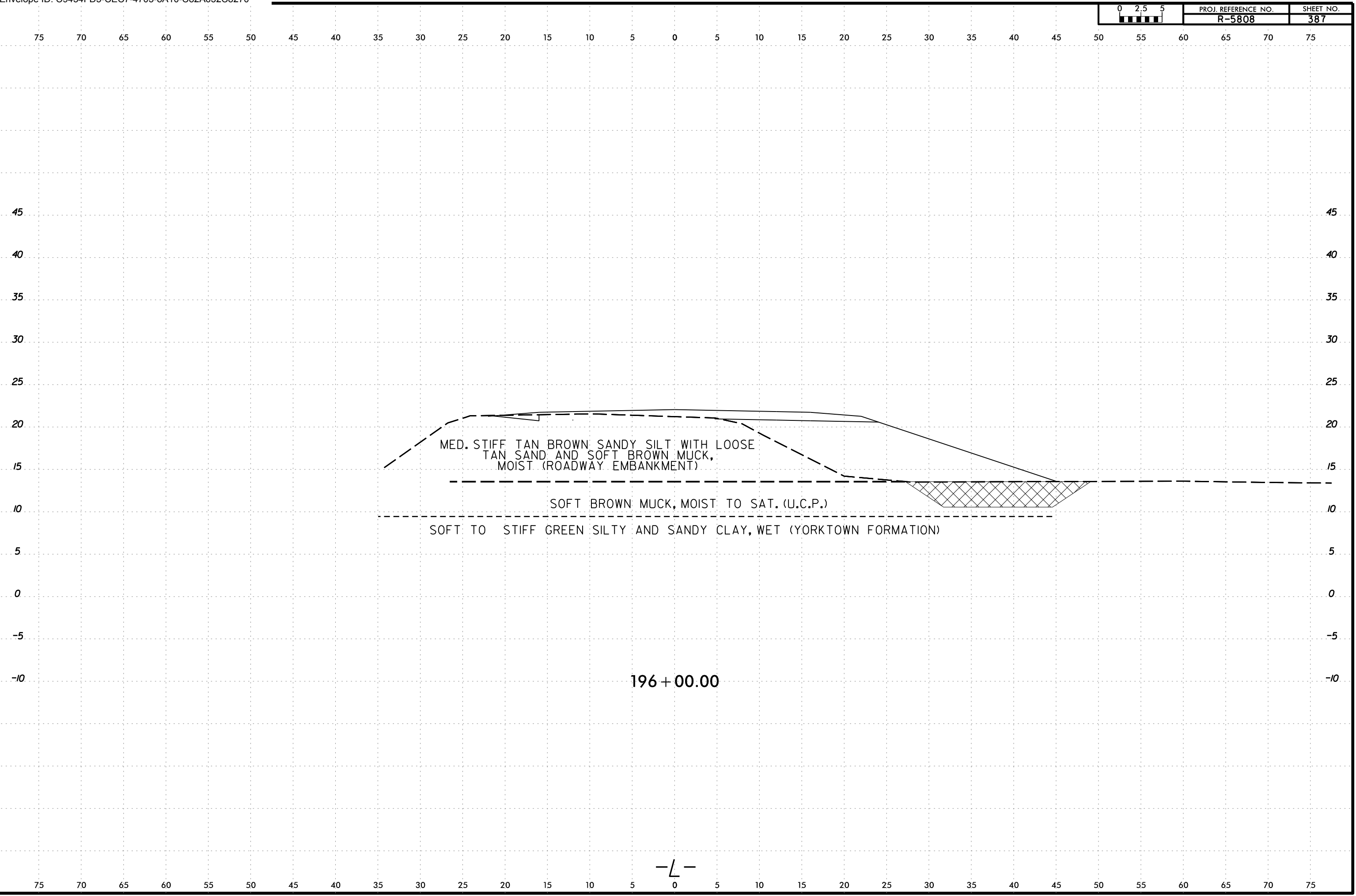
21-MAY-2024 16:53  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\195808\_GEO\RDWY\195808\_GEO\RDWY\CADD\GEO\TECH\XSEC\195808\_GEO\_XSR\_2.dgn  
 jstone

6/23/16

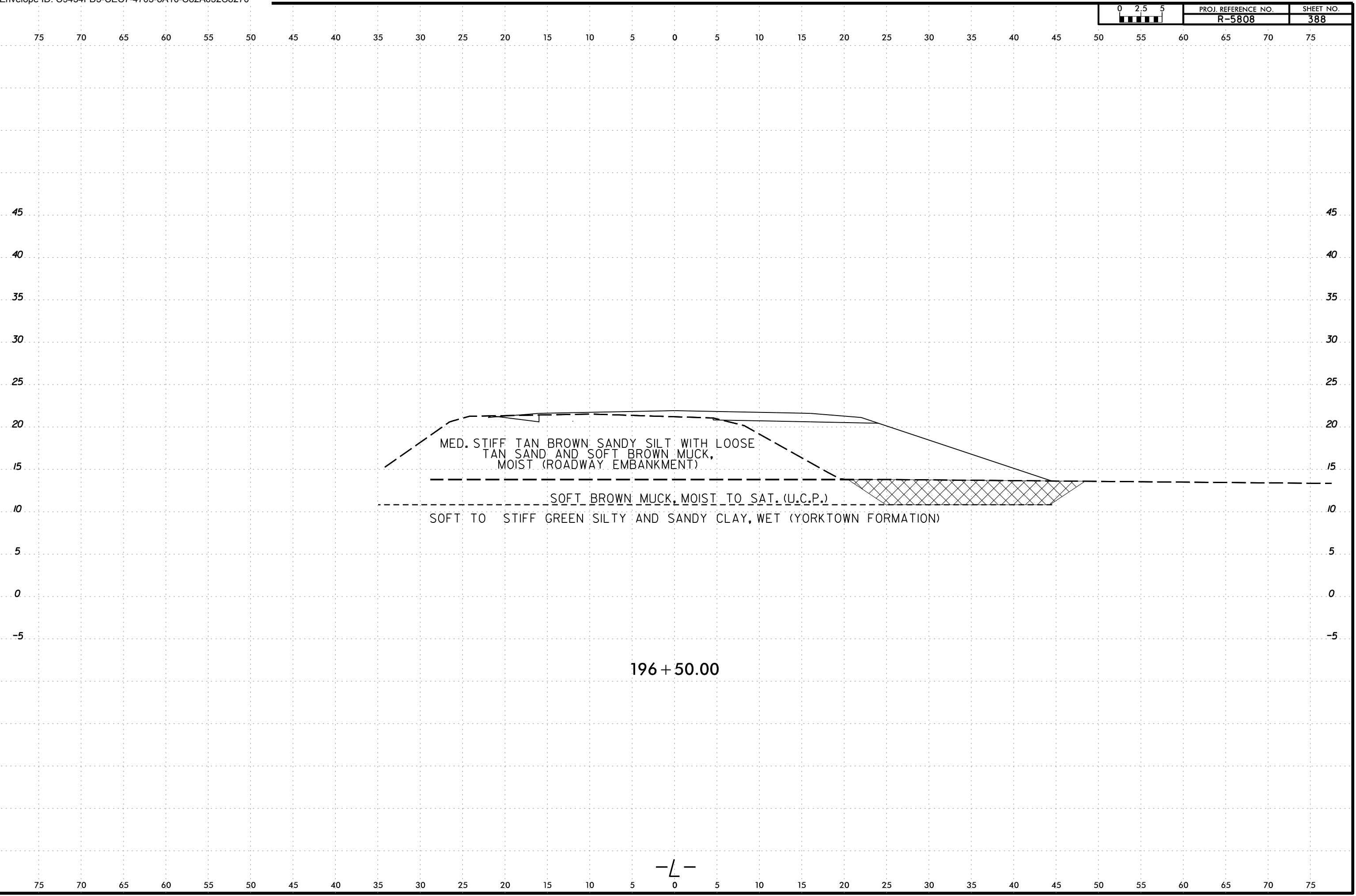
6/23/16  
21-MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

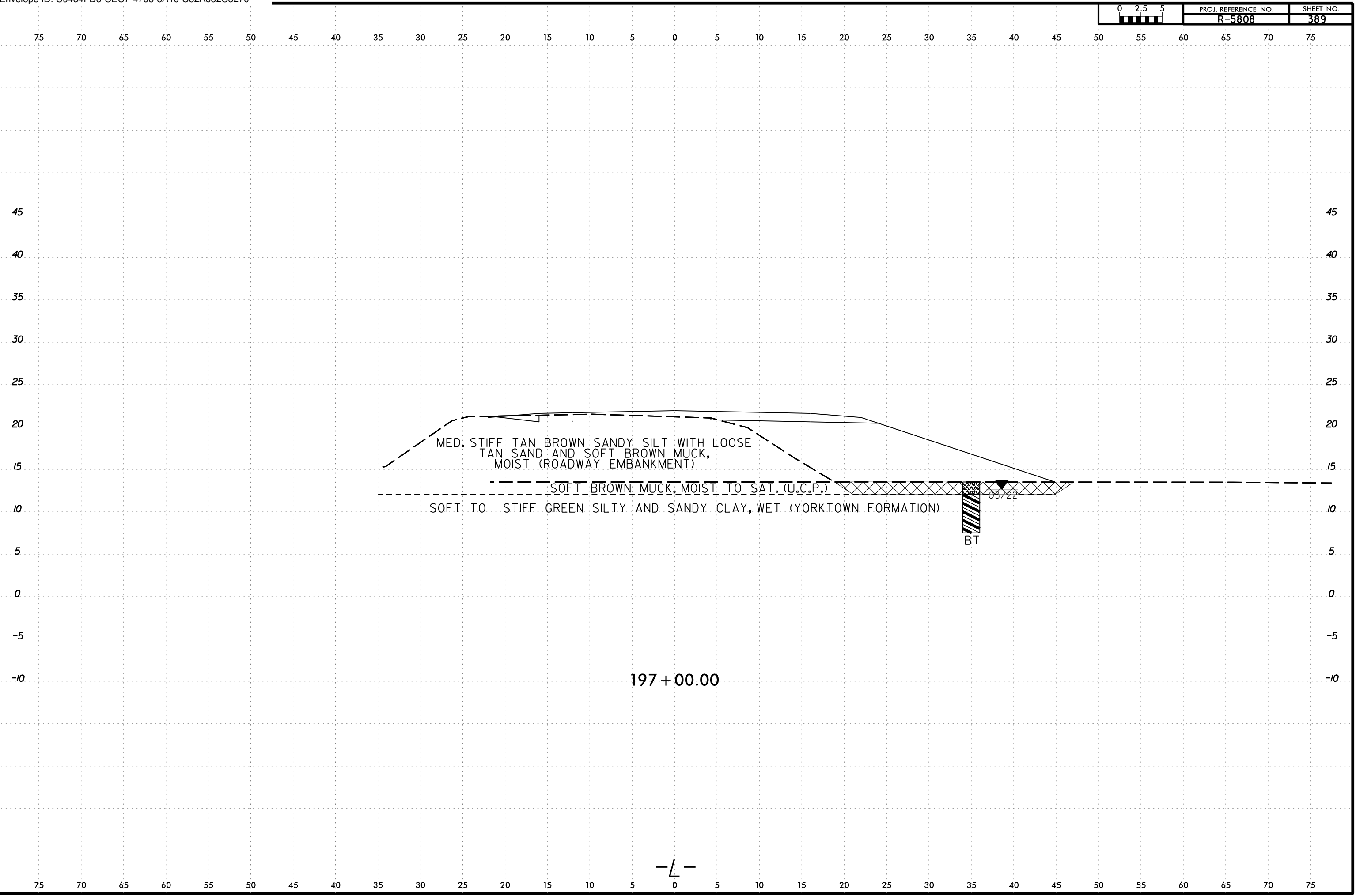


6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\196808\_GEO\RDWY\196808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\196808\_GEO\_XSR\_2.dgn  
jstone



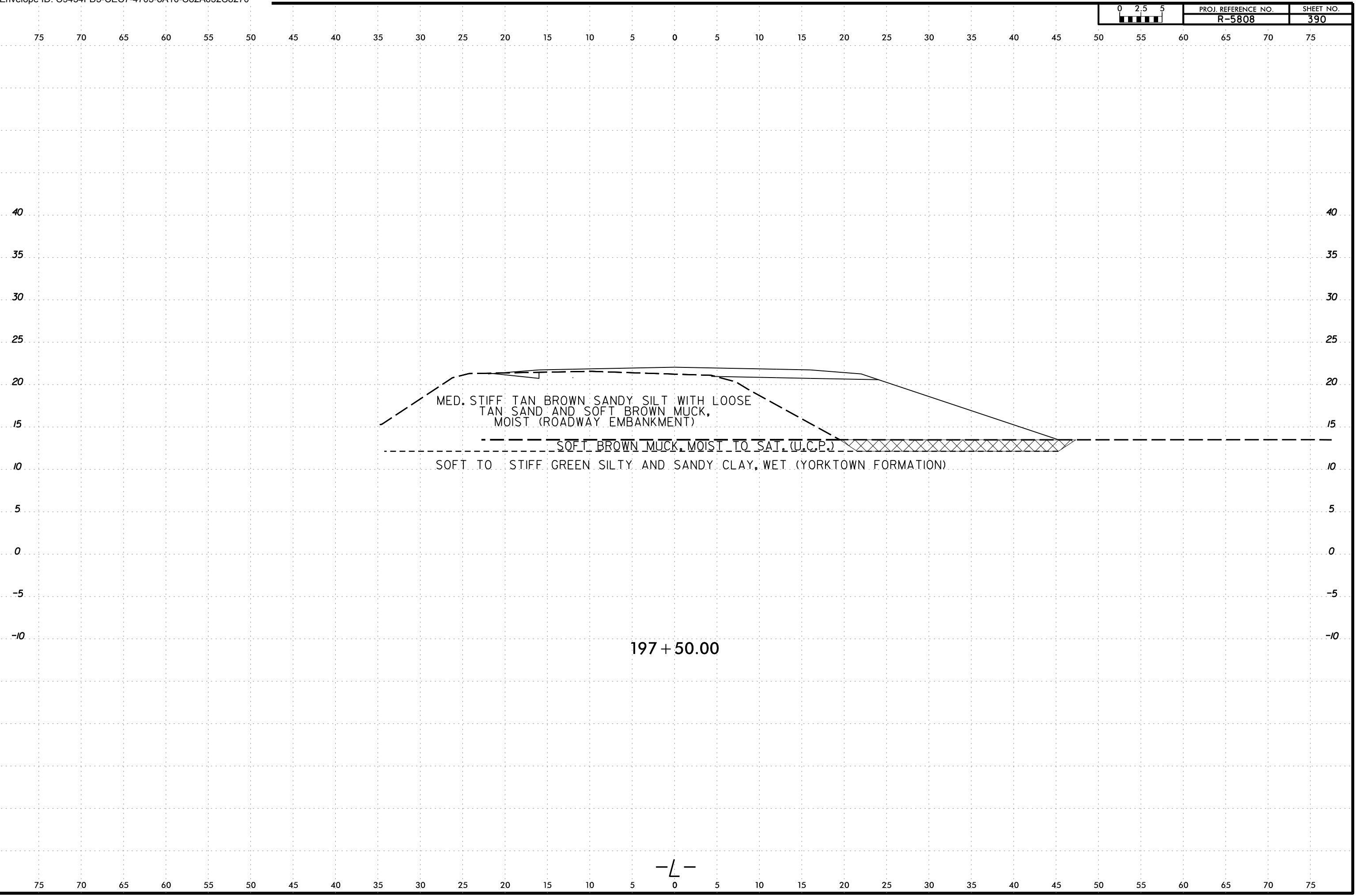
-L-

6/23/16  
21MAY-2024 16:53  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone



-L-

6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\RDWY\RS808\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



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

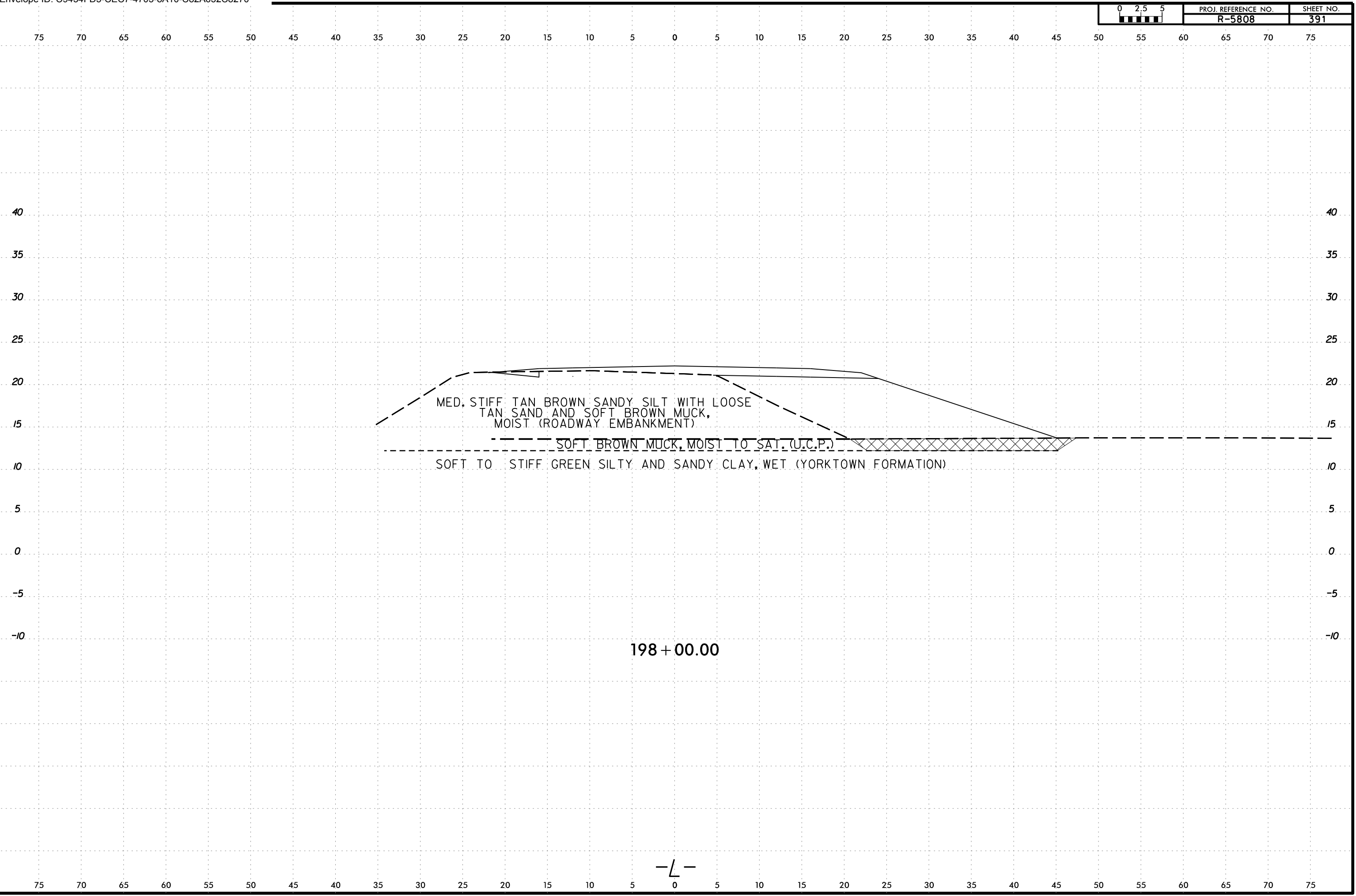
SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

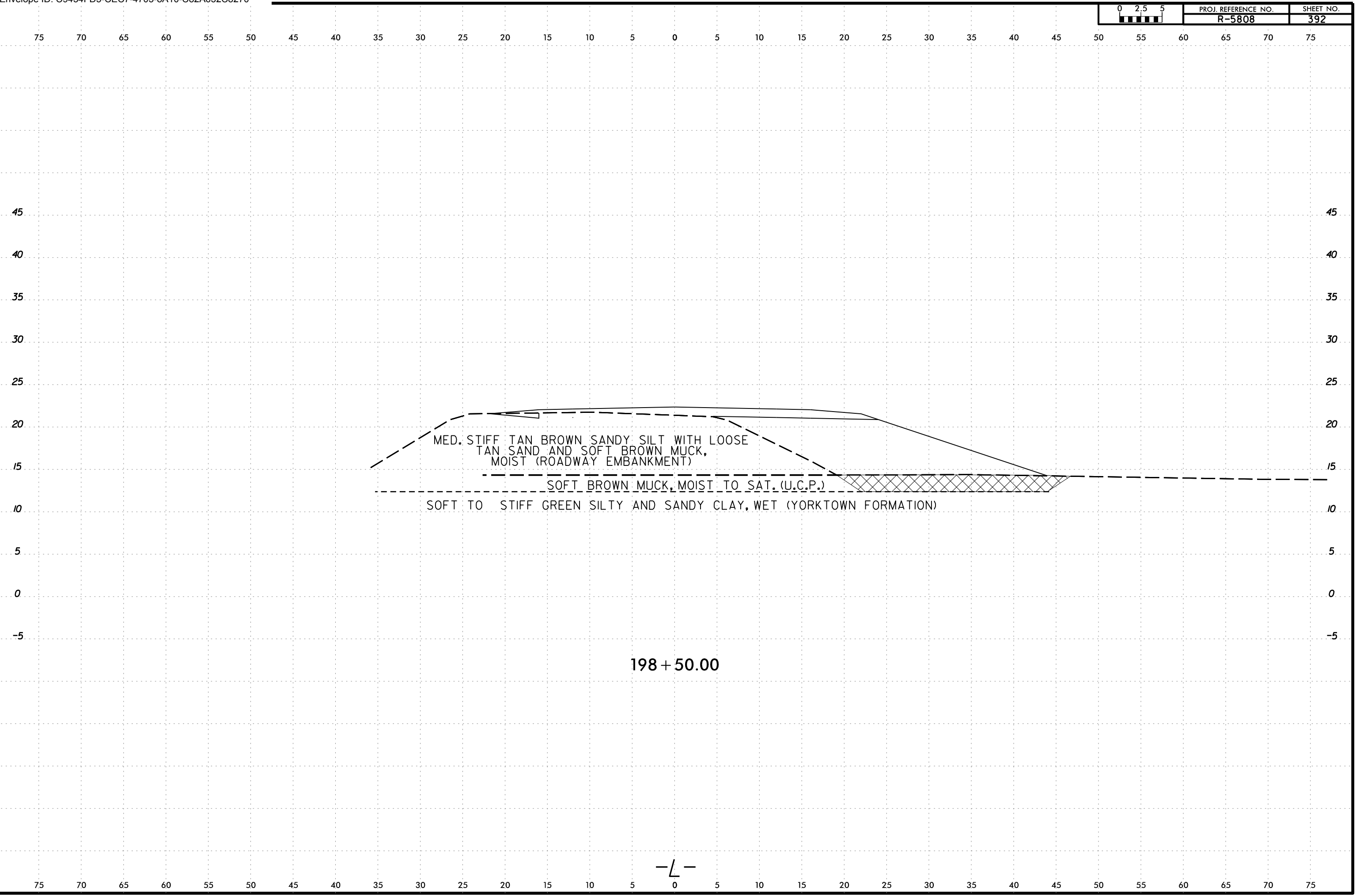
197 + 50.00

-L-

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

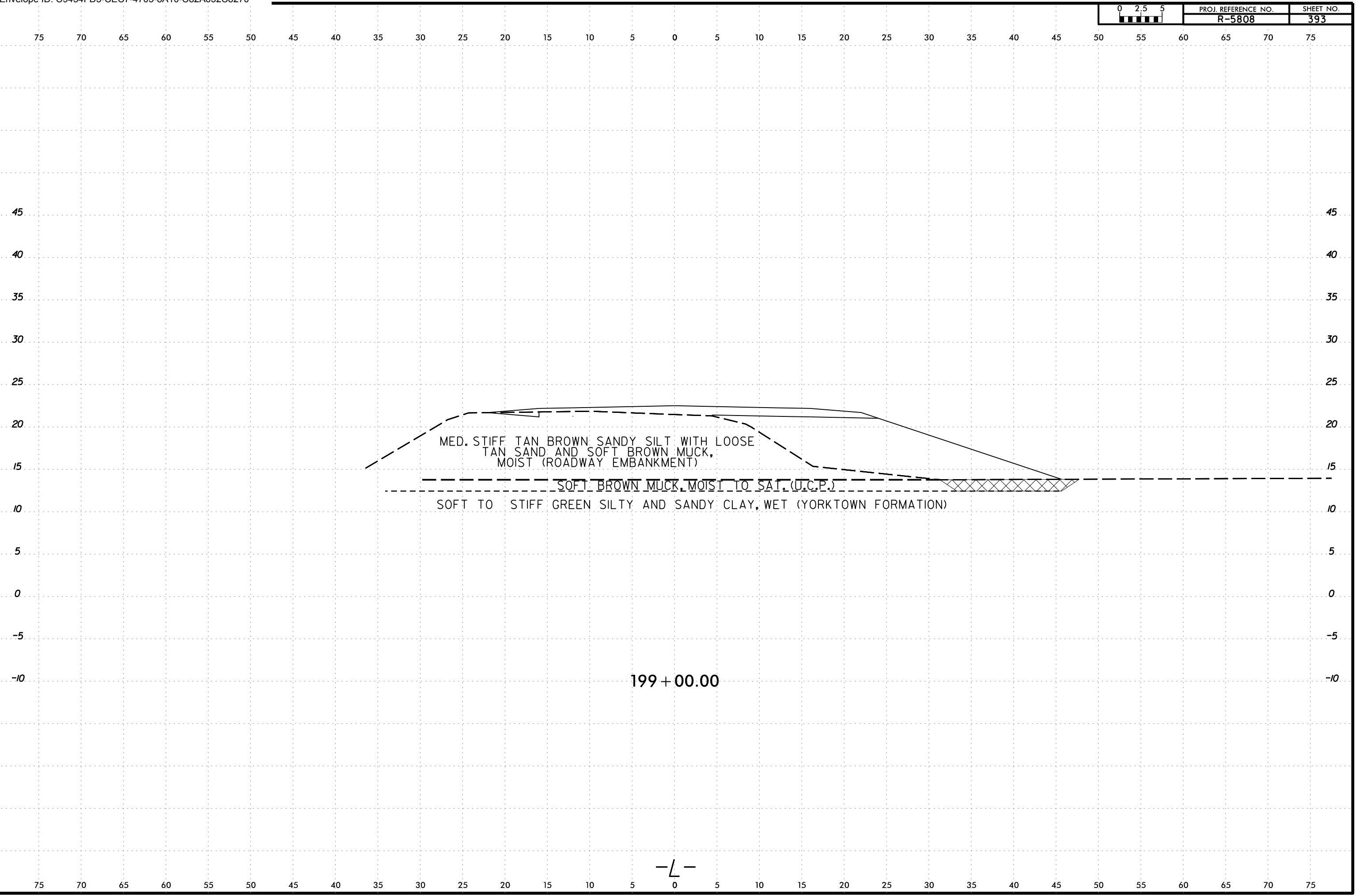


6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

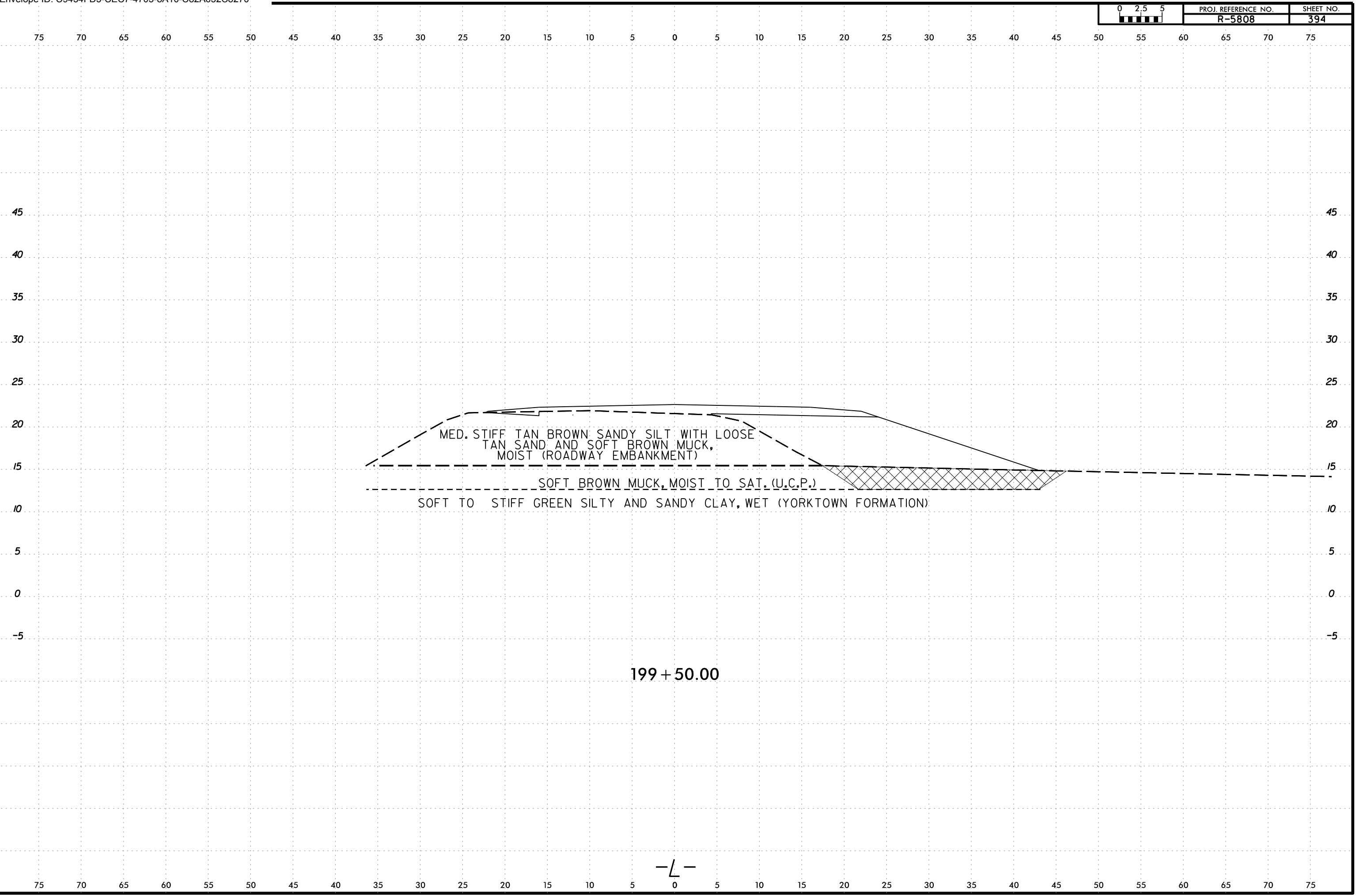




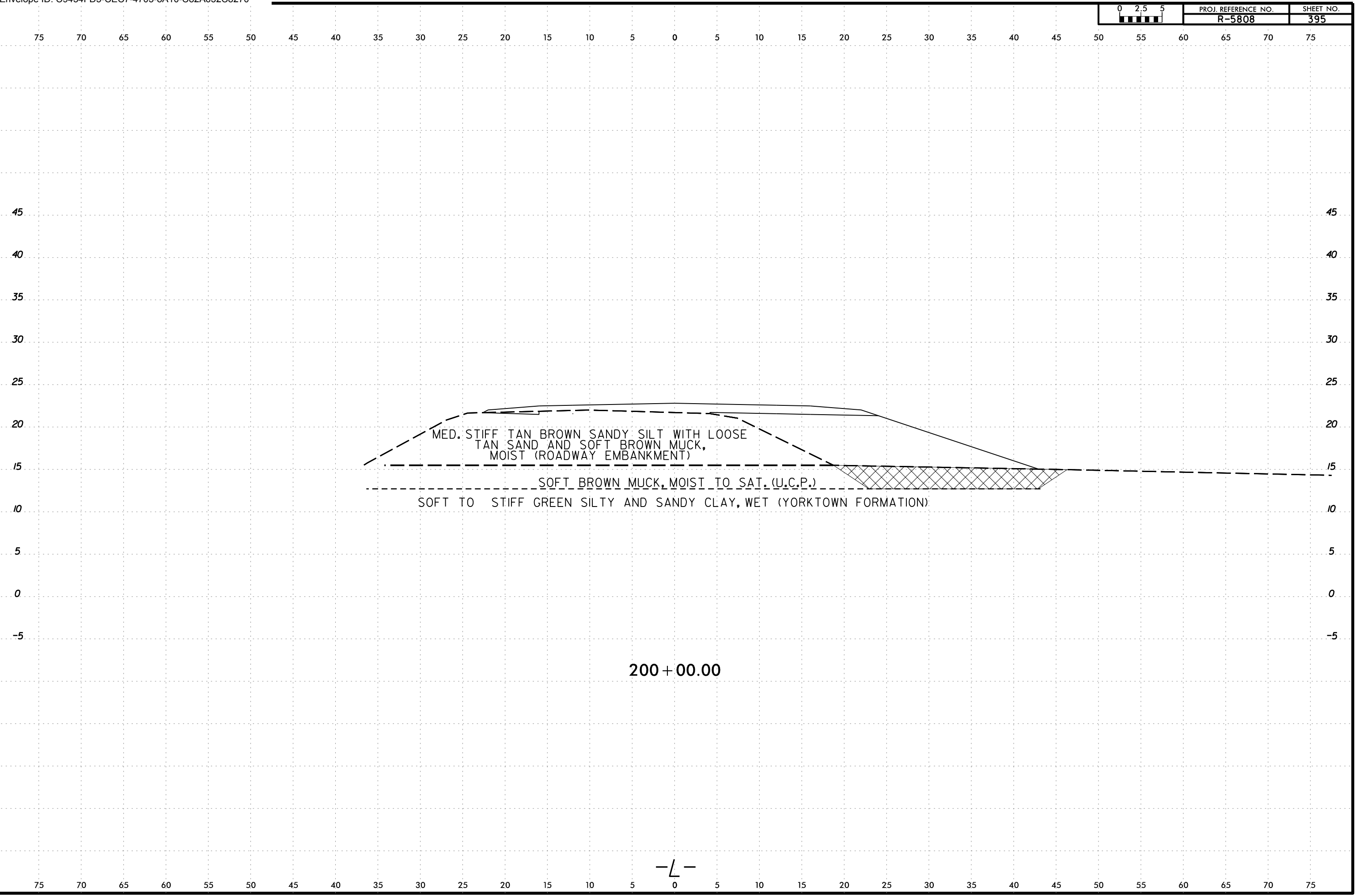
6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



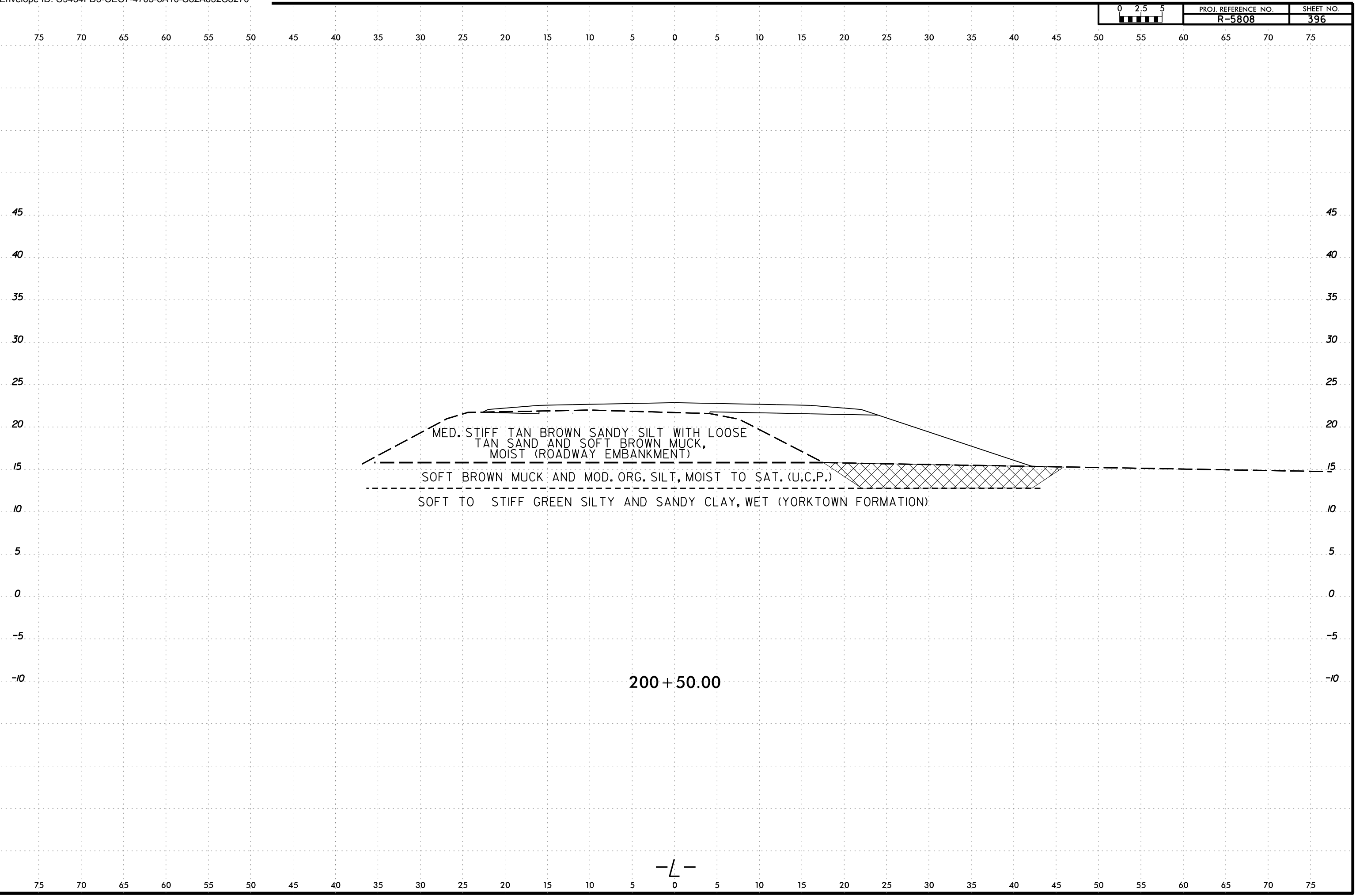
6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
2\MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\sec\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 45

40 40

35 35

30 30

25 25

20 20

15 15

10 10

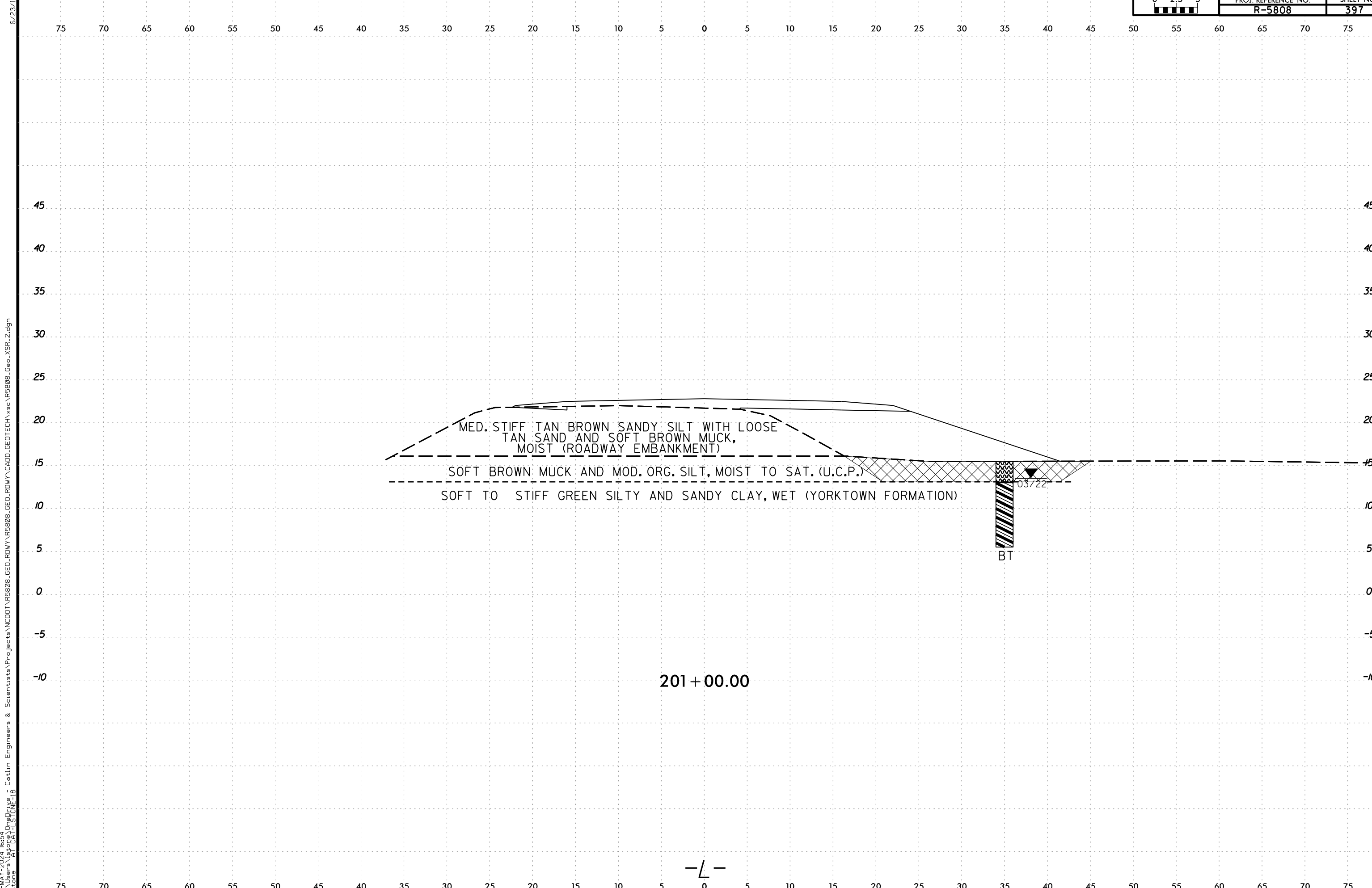
5 5

0 0

-5 -5

-10 -10

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



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

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

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

0.37:2.2

BT

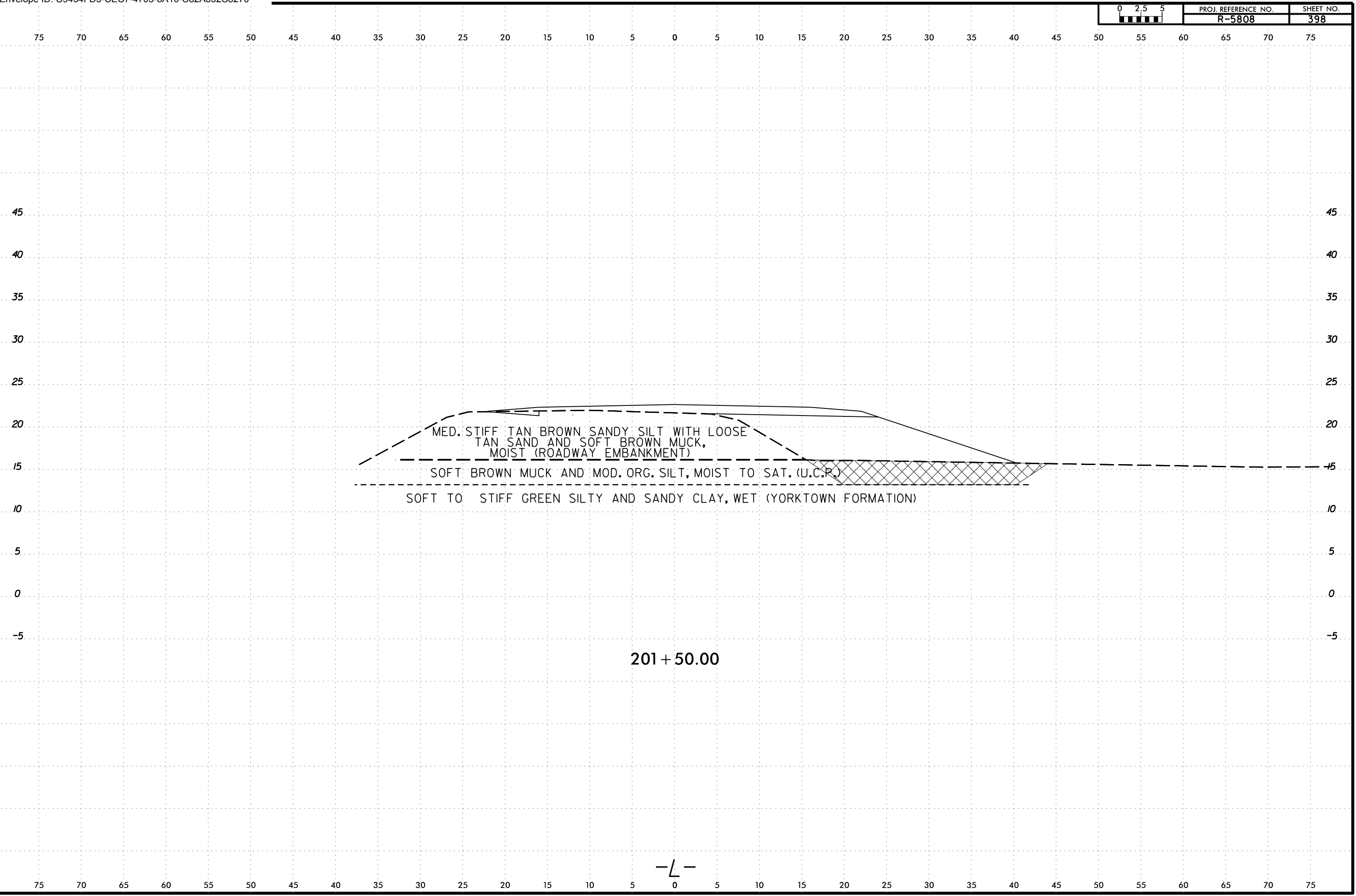
201+00.00

-L-

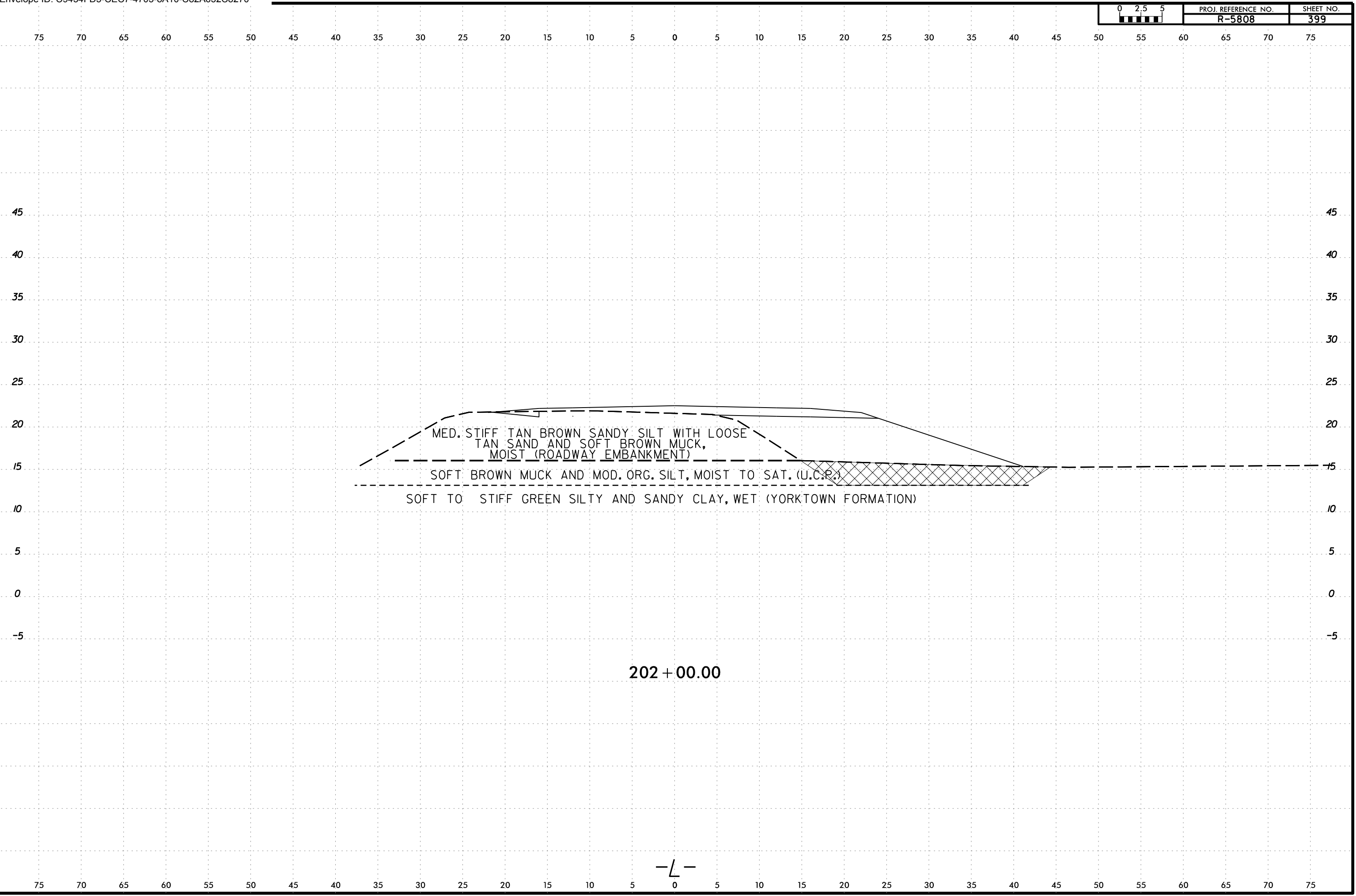
21-MAY-2024 16:54  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
 jstone

6/23/16

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

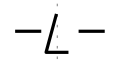


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND AND SOFT BROWN MUCK,  
MOIST (ROADWAY EMBANKMENT)

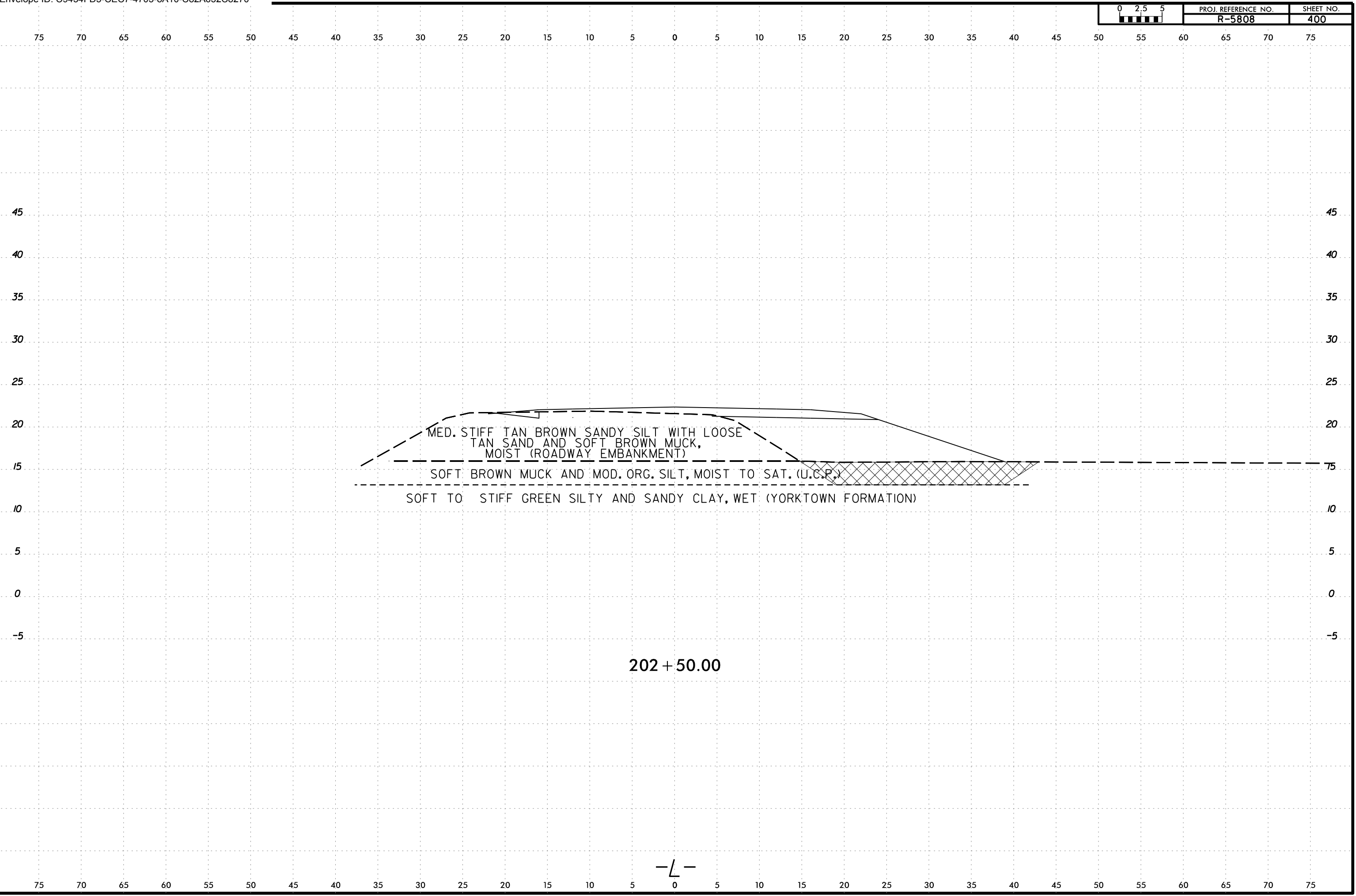
SOFT BROWN MUCK AND MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

202 + 00.00

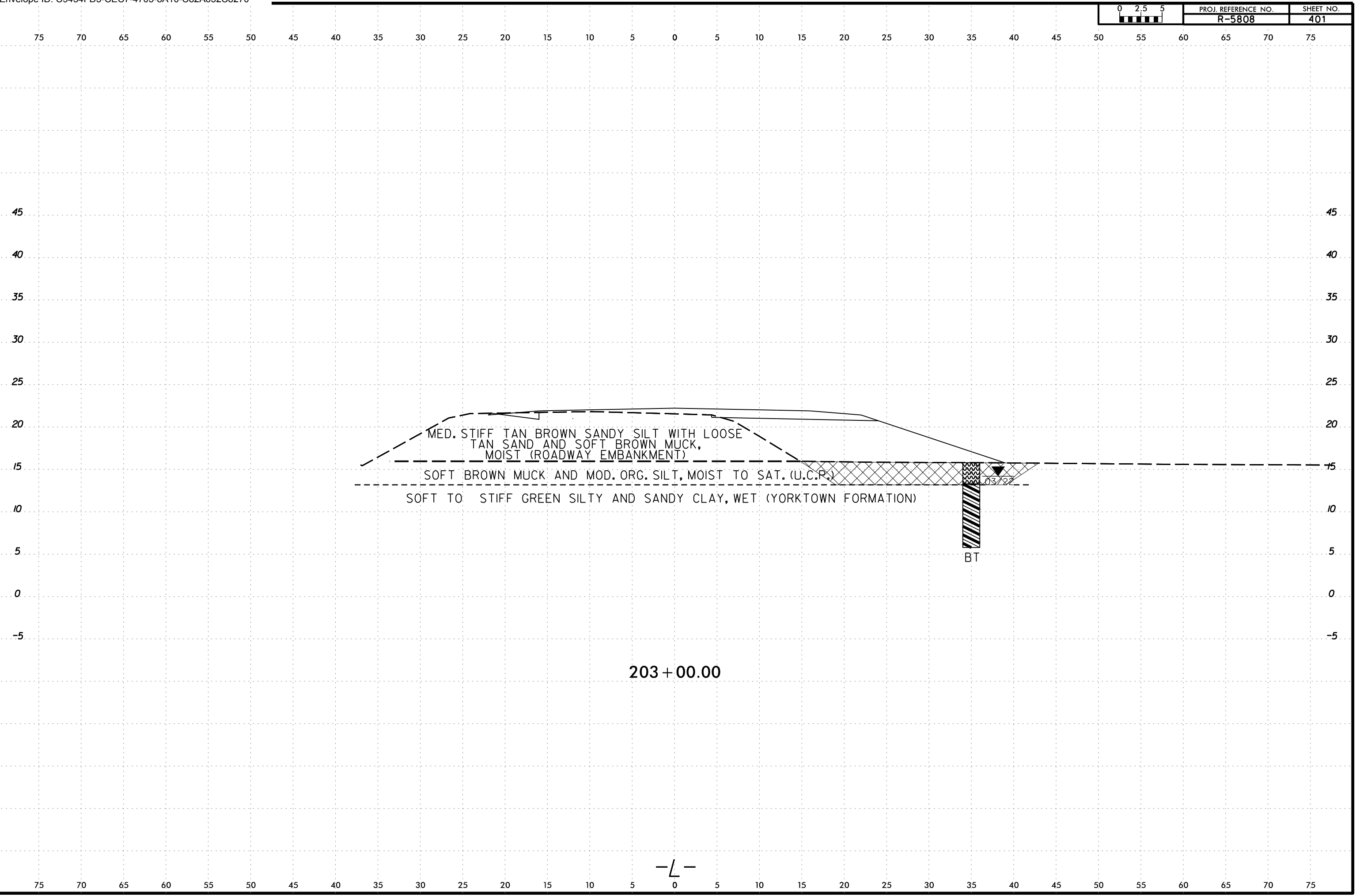


6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



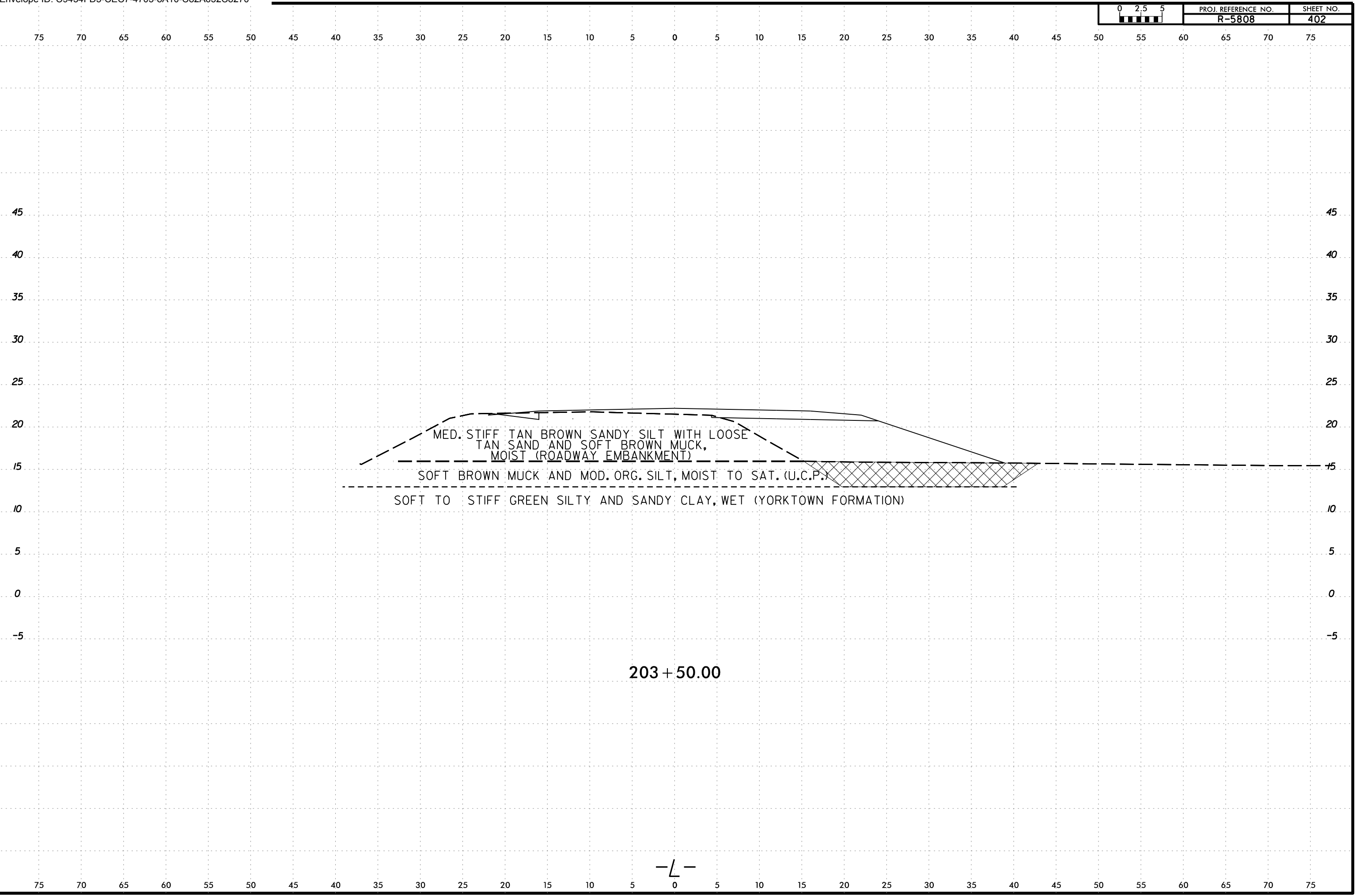


6/23/16  
2\MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

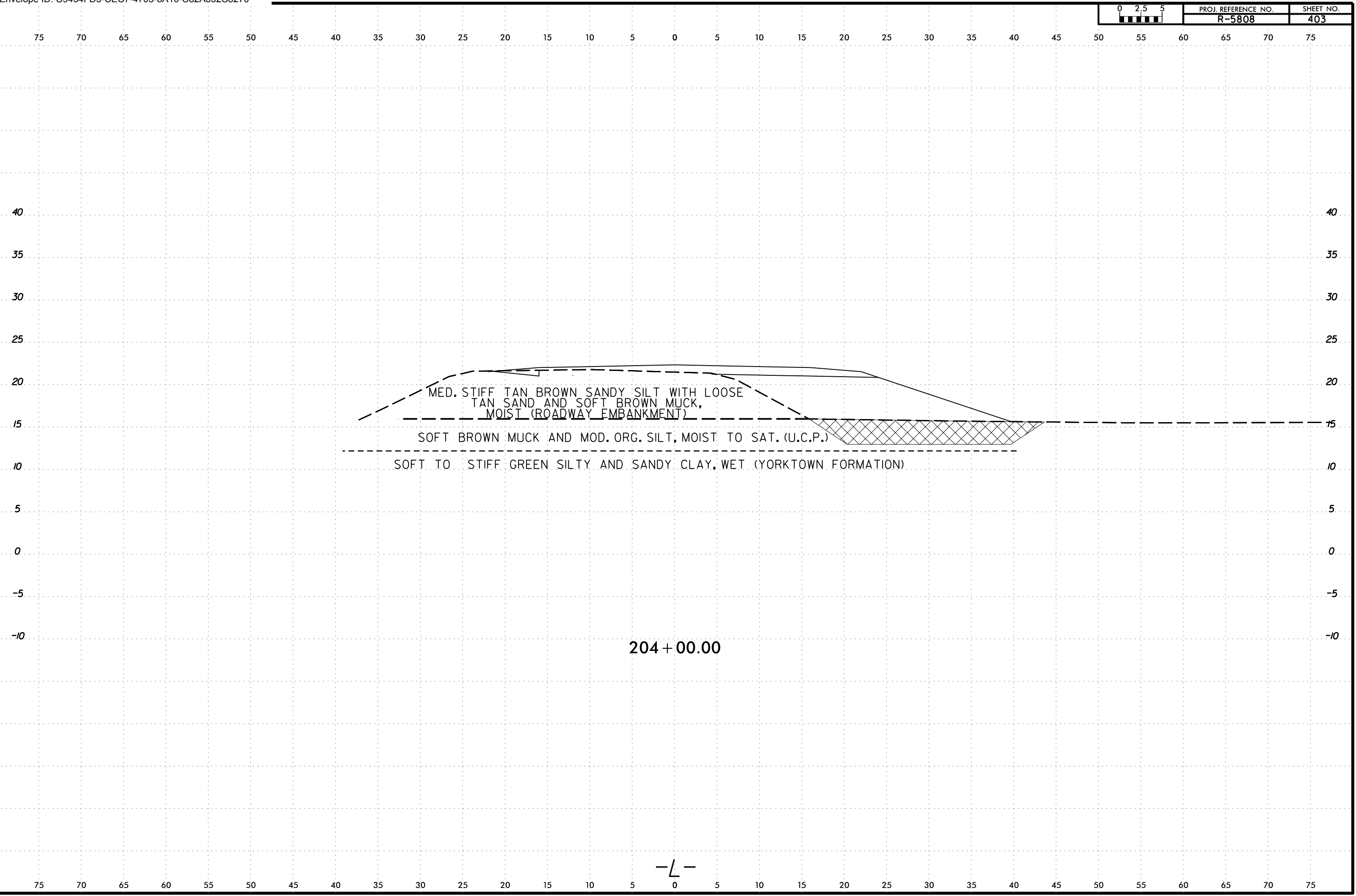


-L-

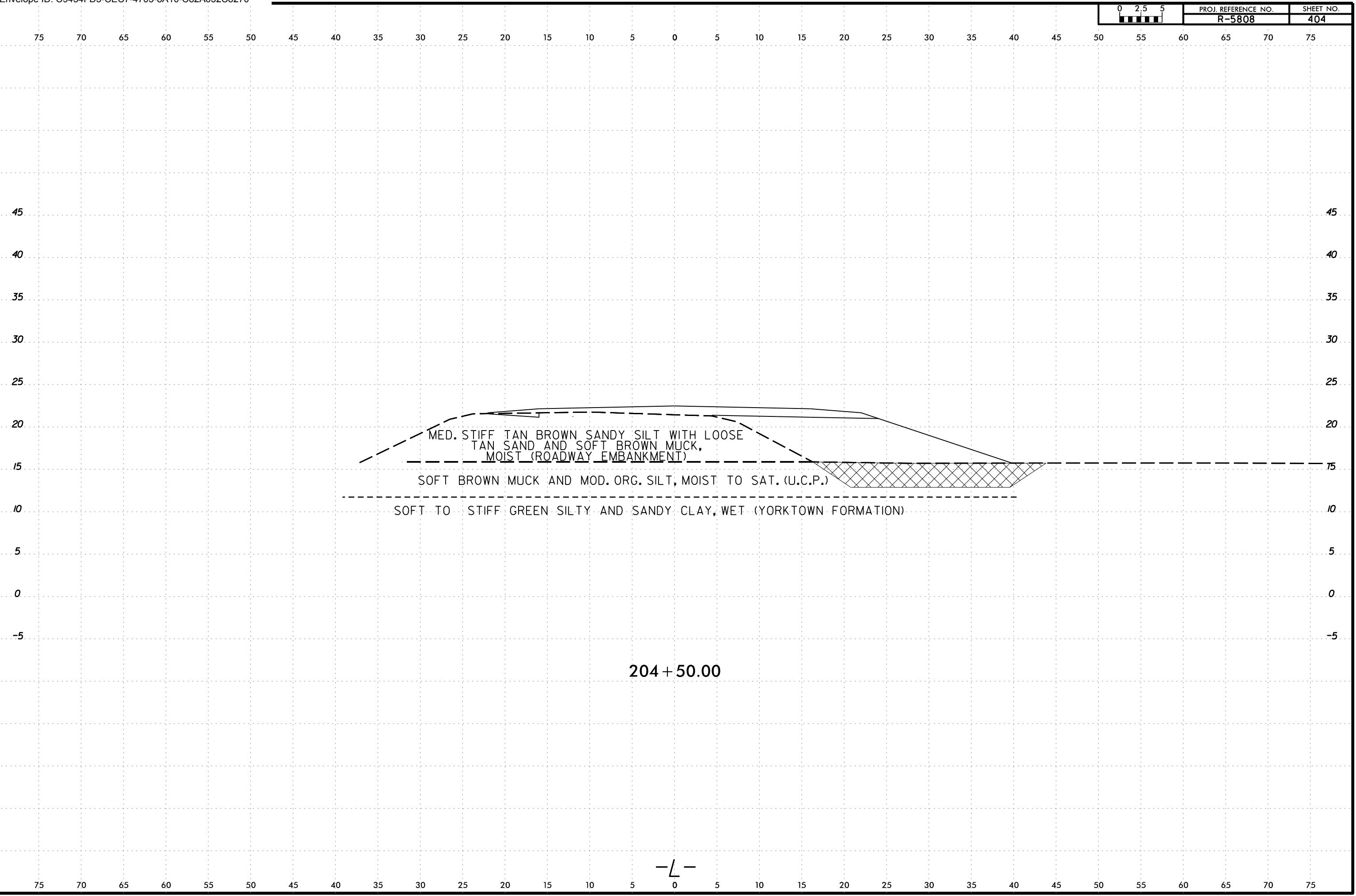
6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\RDWY\XSR\_2.dgn

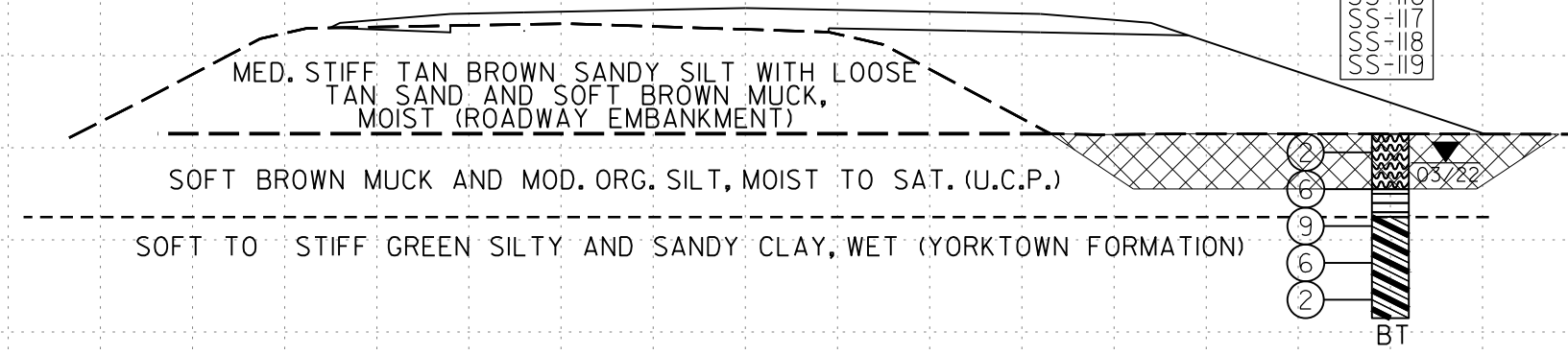


6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



-L-

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-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-6(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	-	-



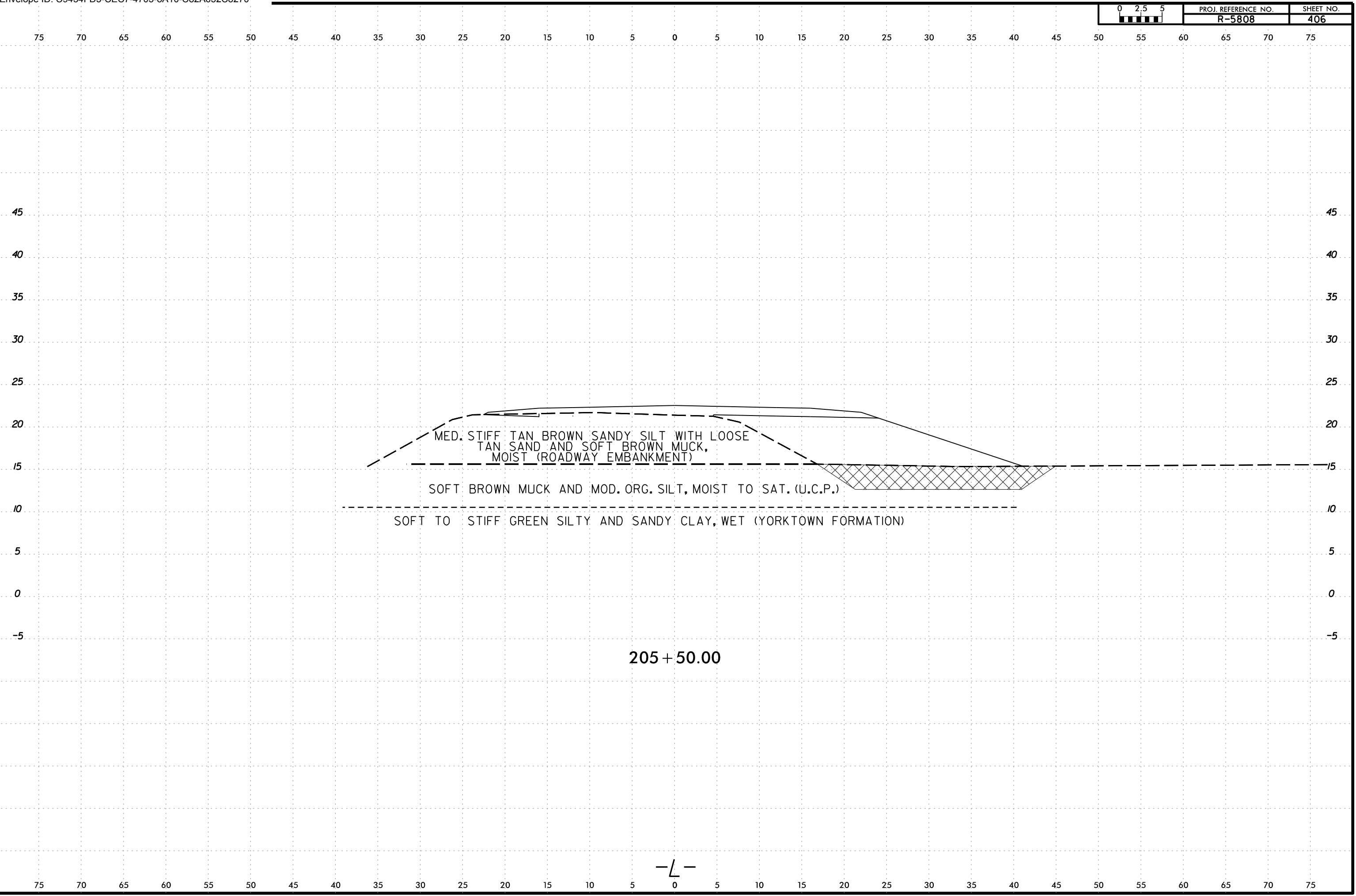
205 + 00.00

-L-

21-MAY-2024 16:54  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\RS808L\_Geo\_XSR\_2.dgn  
 jstone

6/23/16

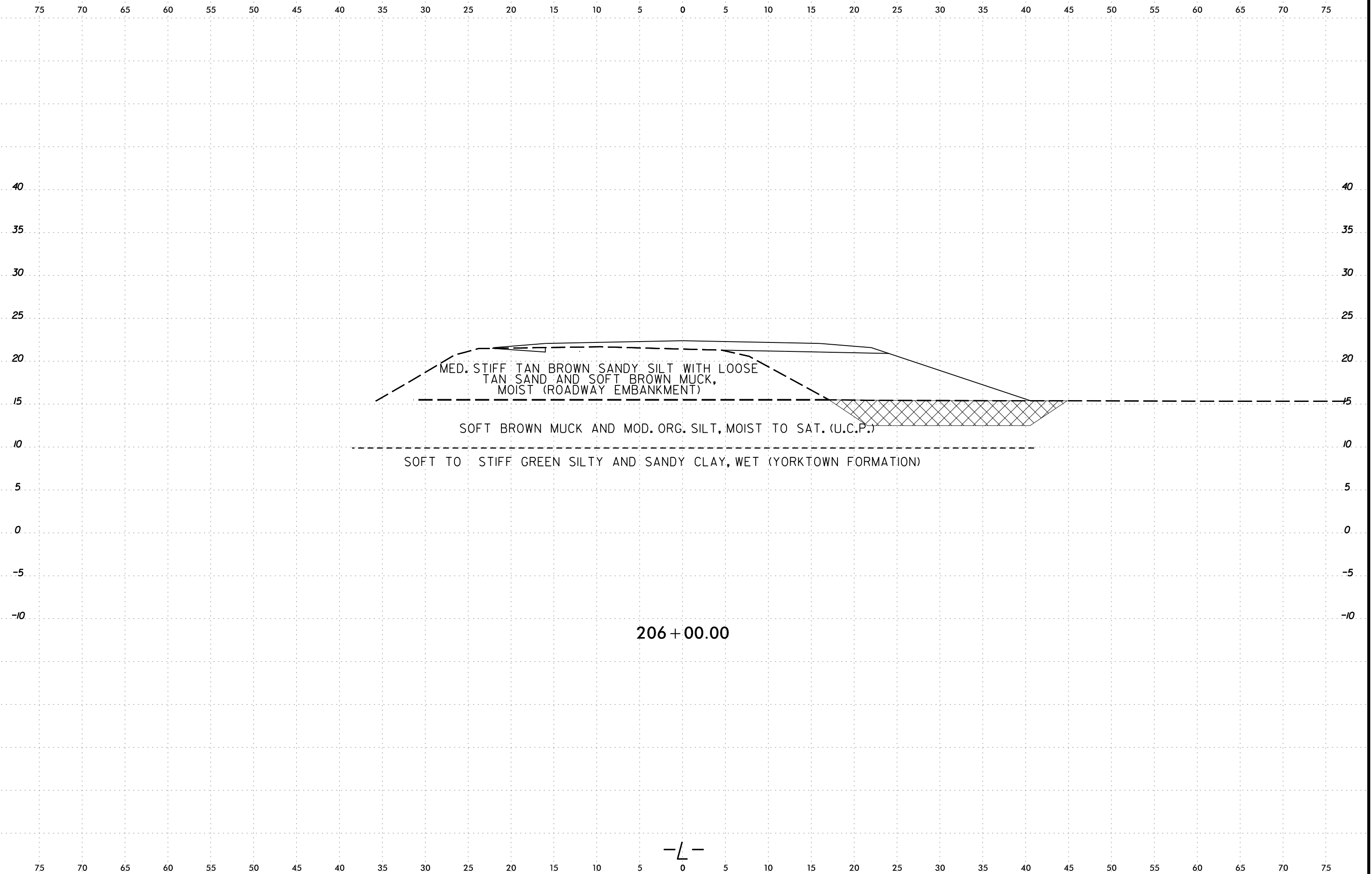
6/23/16  
2\MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



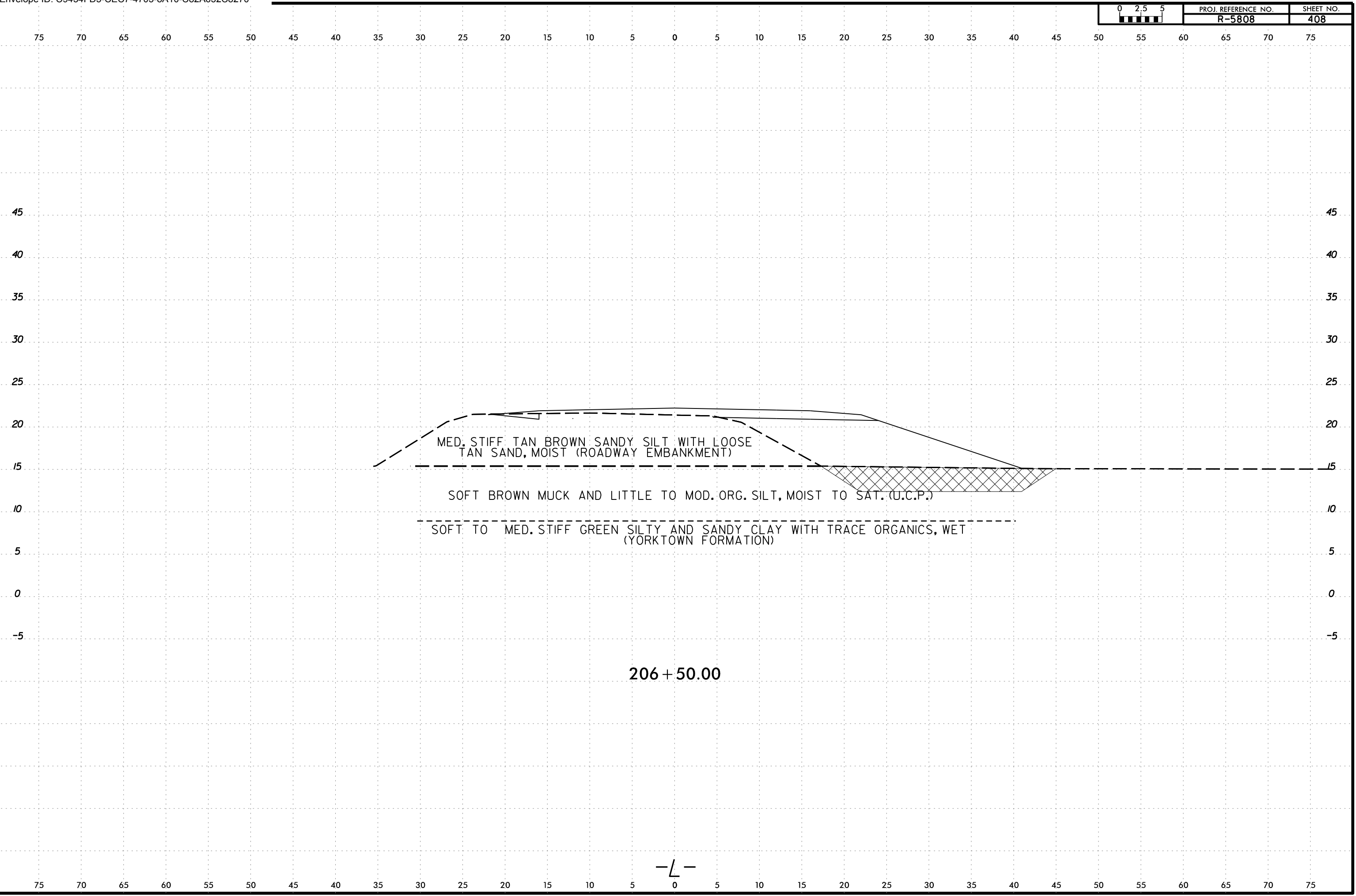
-L-

6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808\_Geo\_XSR\_2.dgn  
jstone

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	407



6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

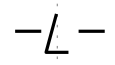


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

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

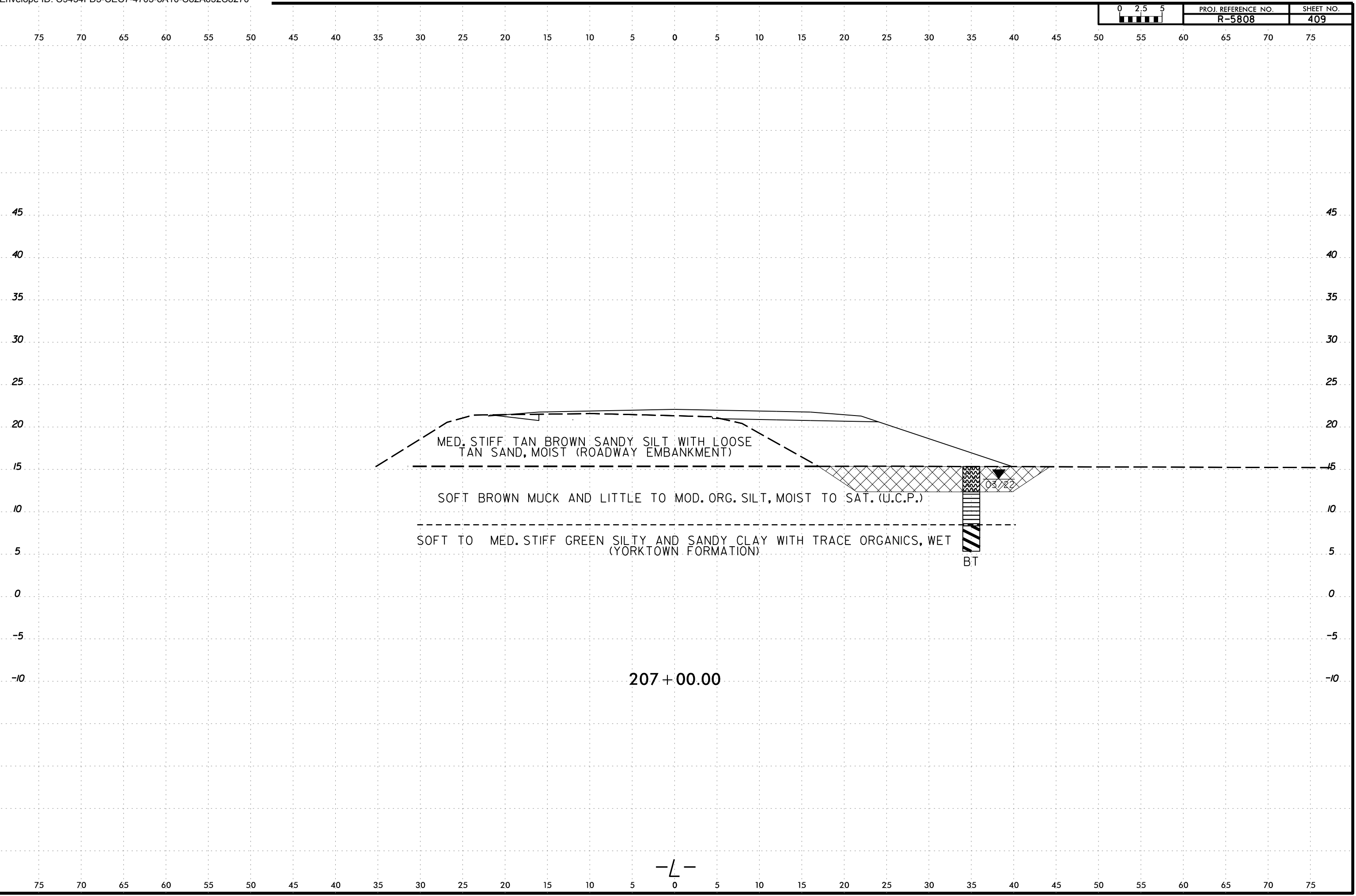
SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

206 + 50.00



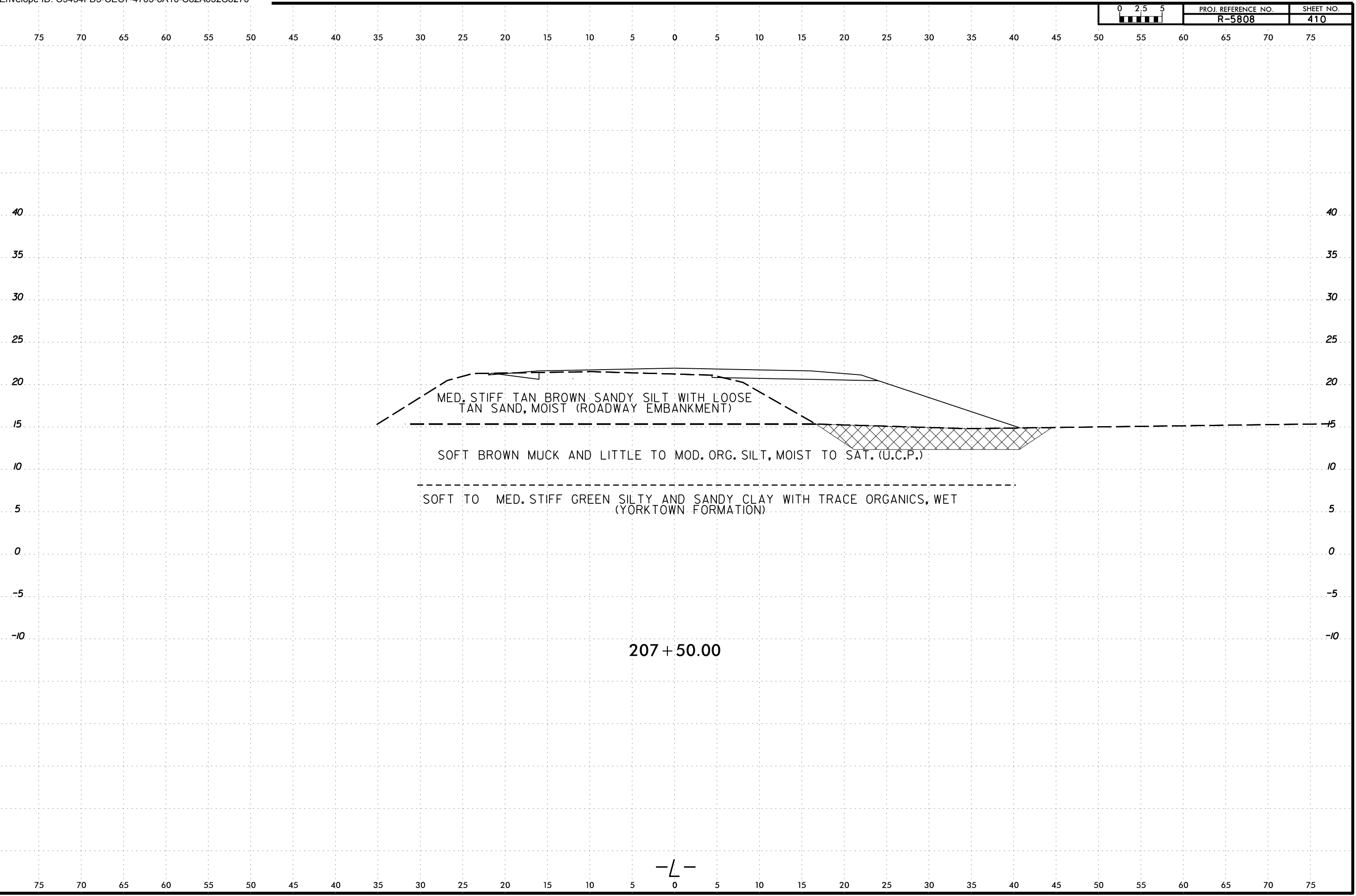


6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-STONE-18



-L-

6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

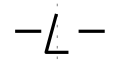


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

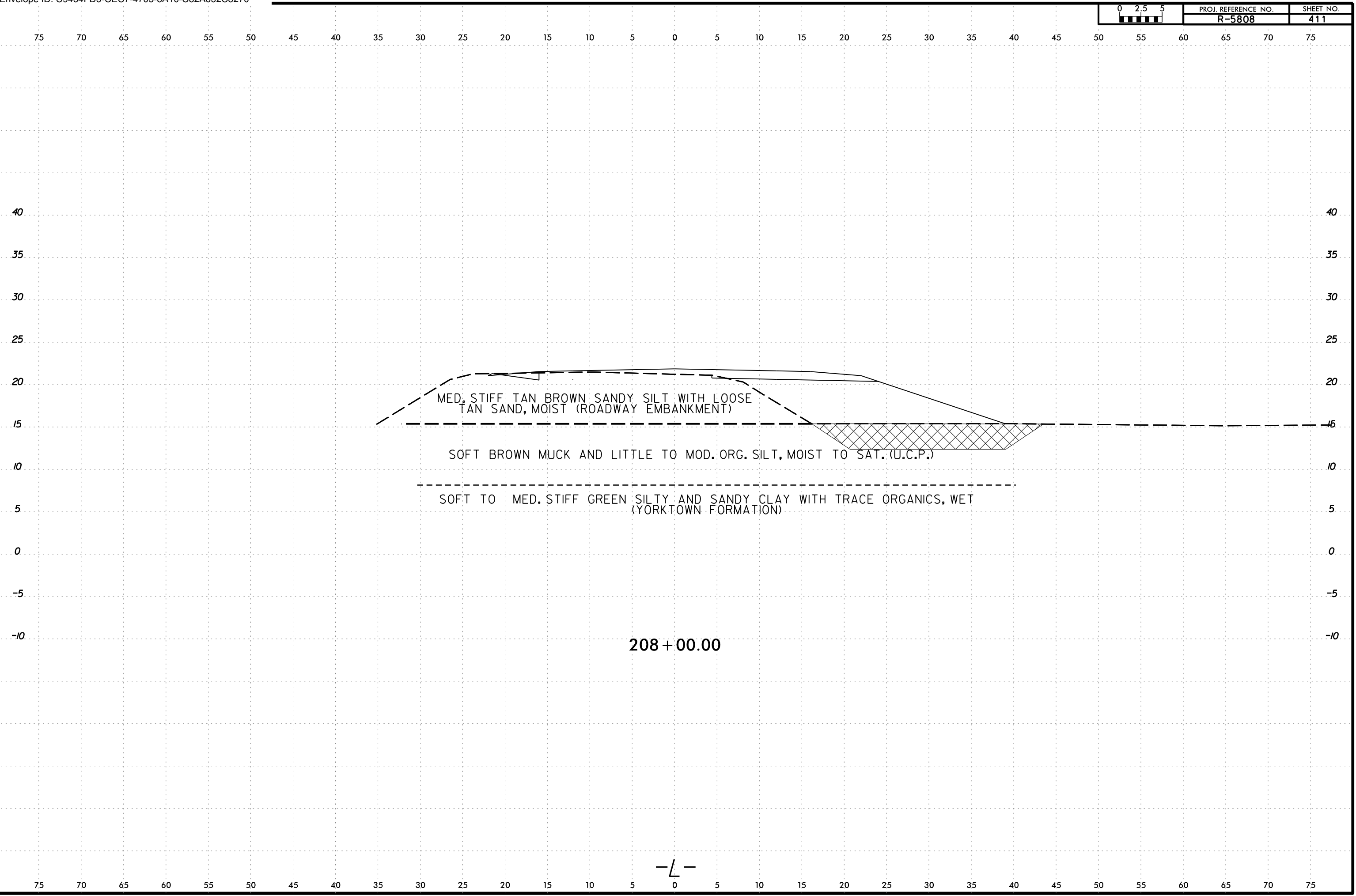
SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

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

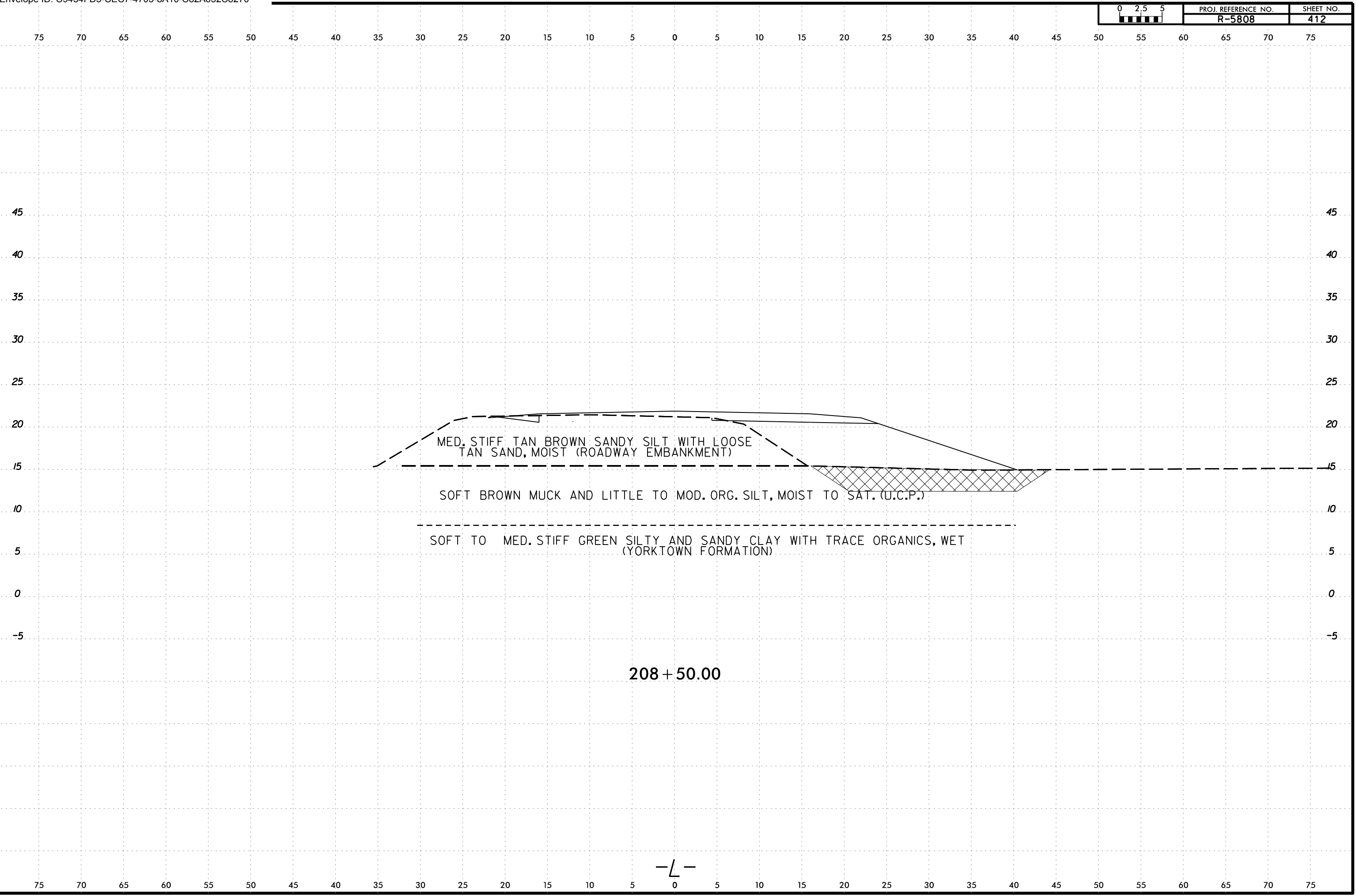
207 + 50.00



6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\RDWY\CADD\_GEO\RDWY\CADD\_GEO\XSR\_2.dgn  
jstone

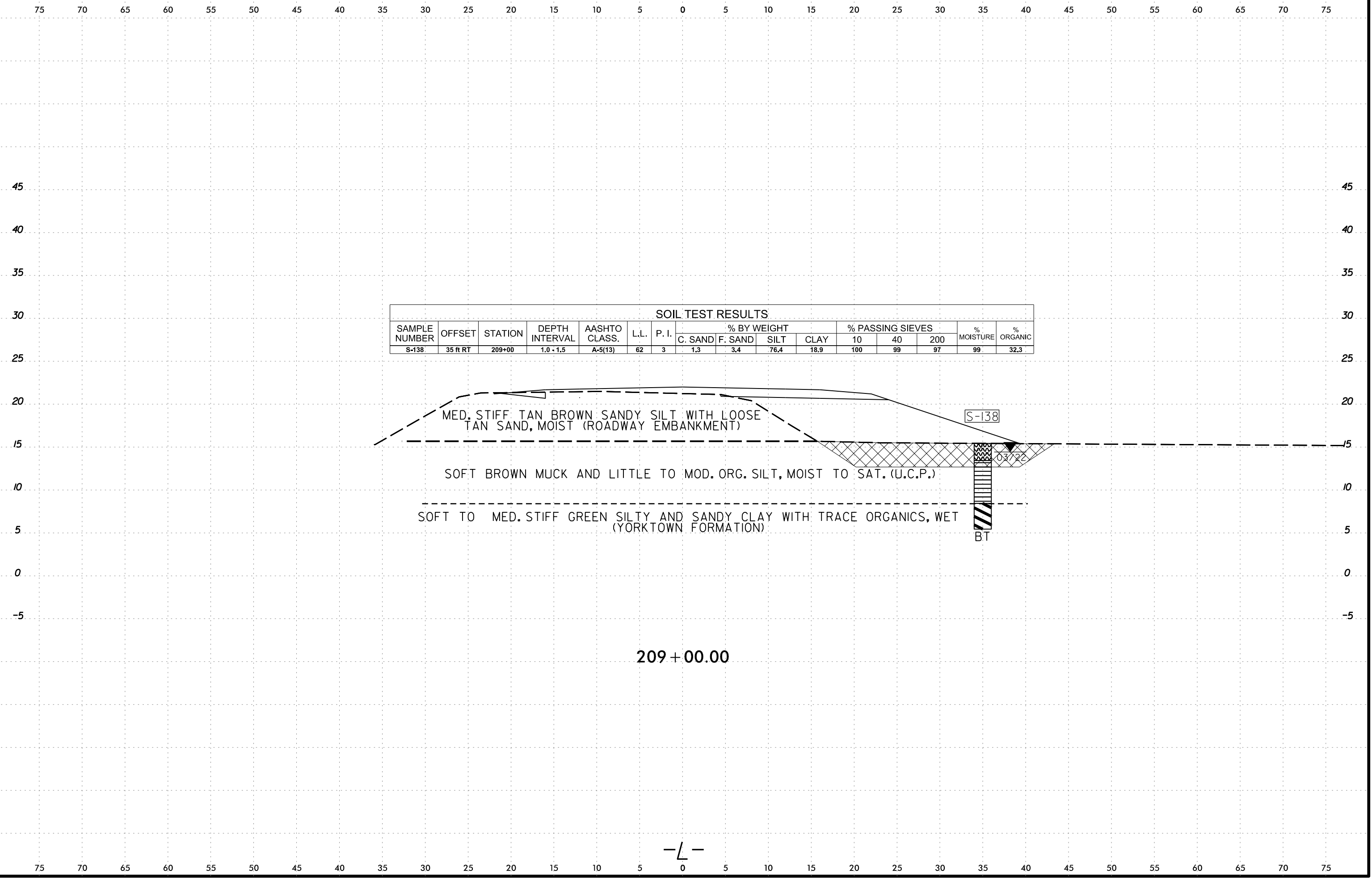


6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



-L-

6/23/16  
2-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

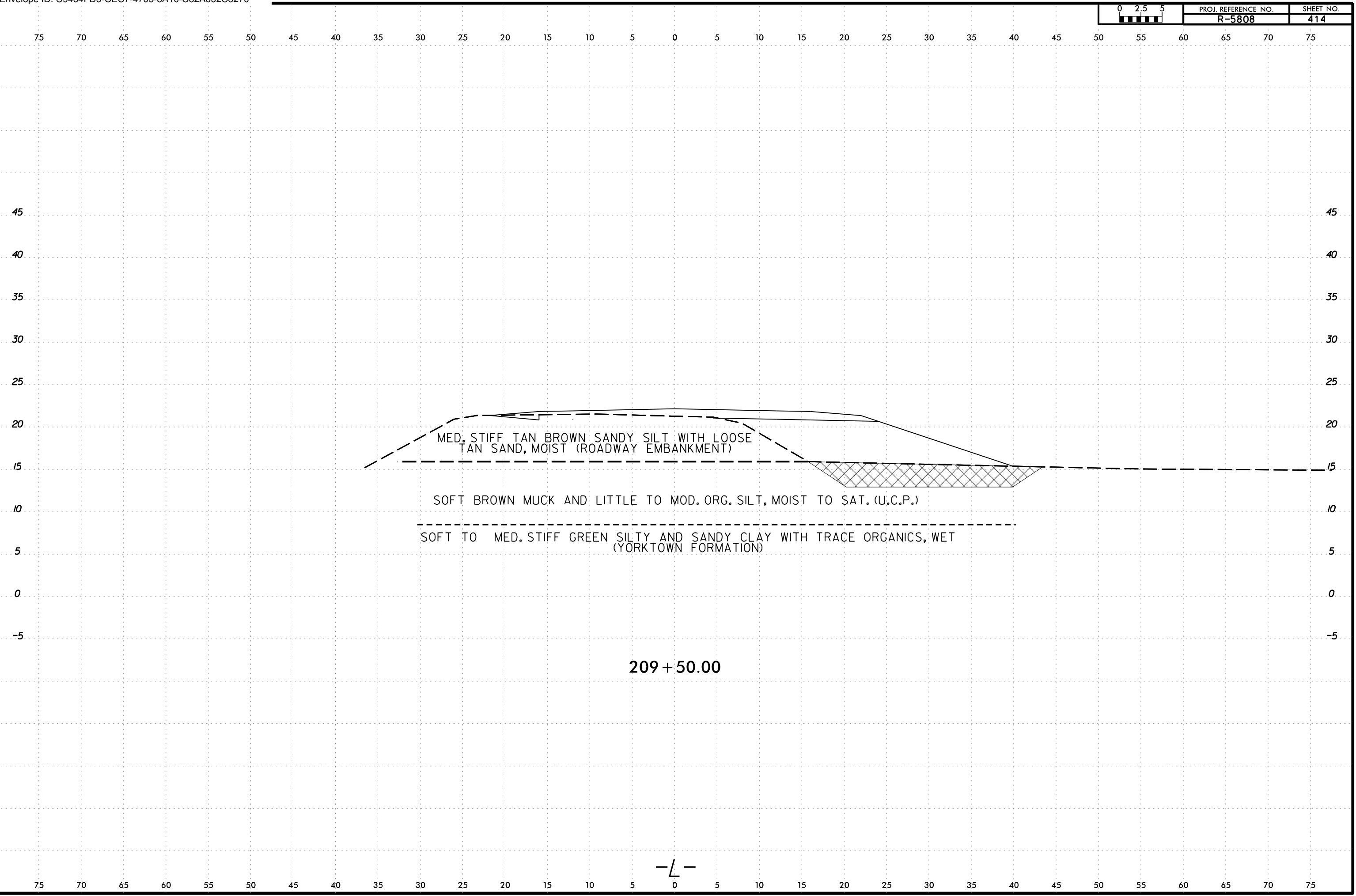


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-138	35 ft RT	209+00	1.0 - 1.5	A-5(13)	62	3	1.3	3.4	76.4	18.9	100	99	97	99	32.3

209 + 00.00

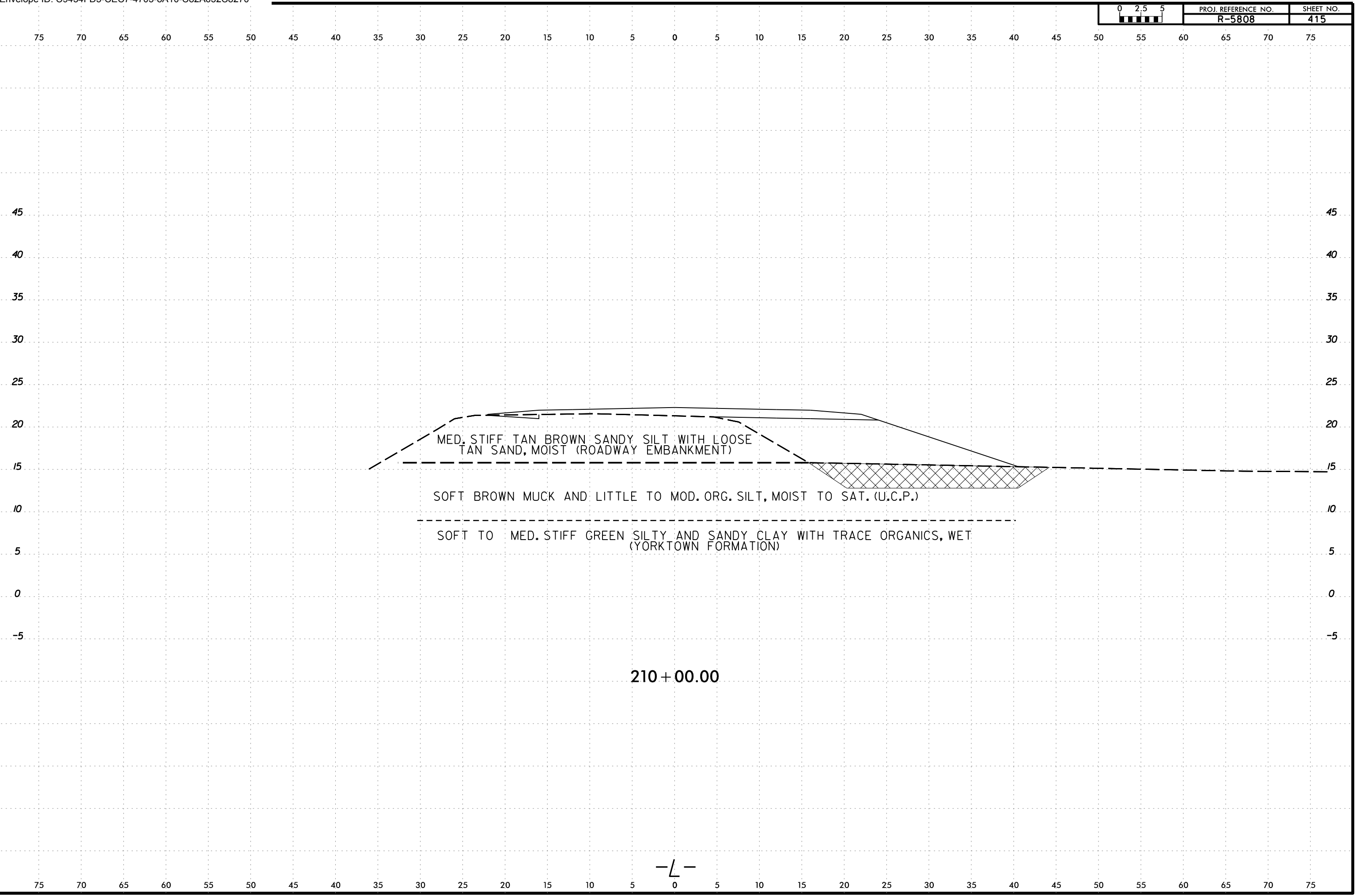
-L-

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

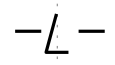


-L-

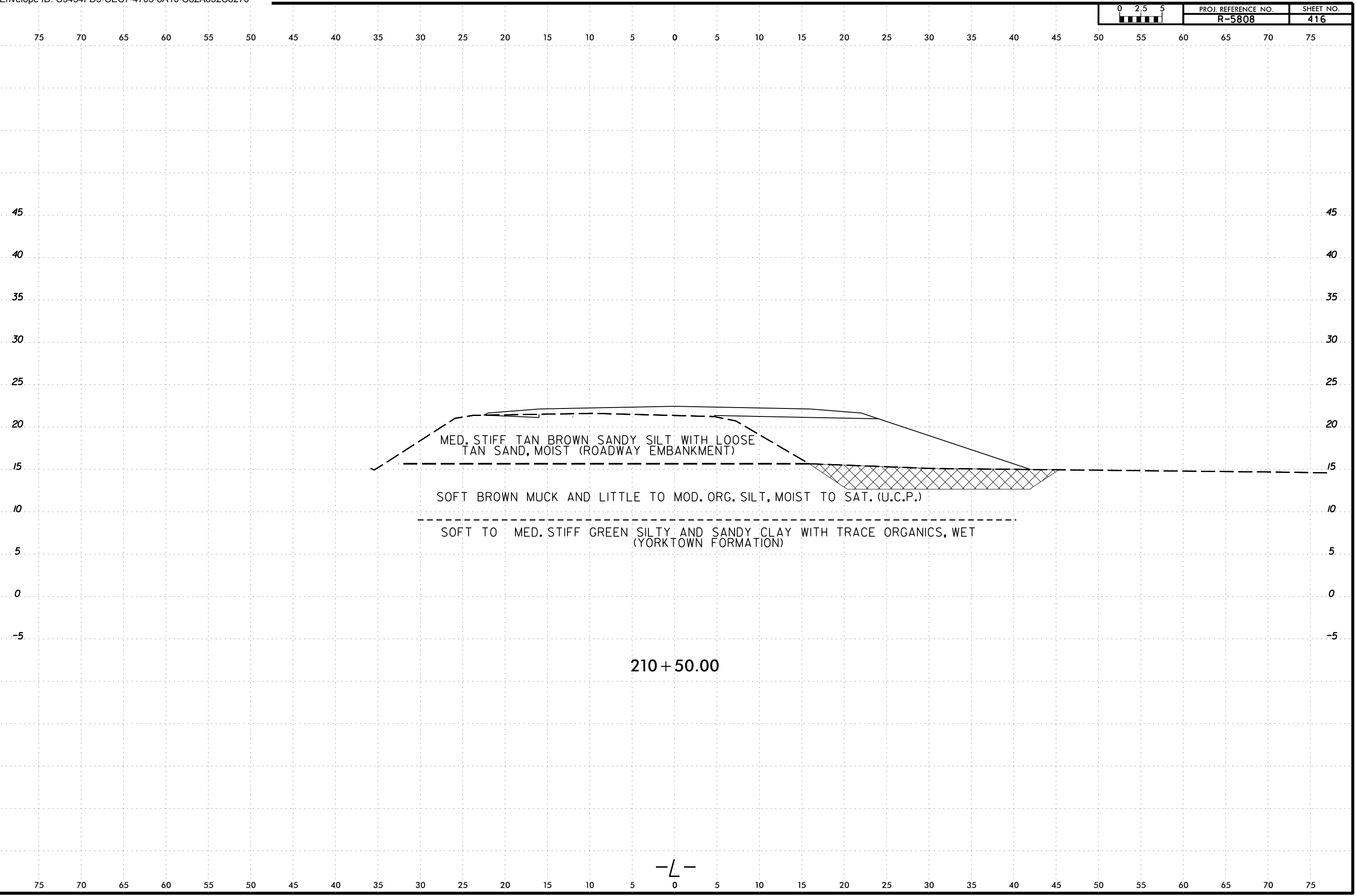
6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



210+00.00



6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\sec\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

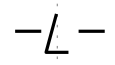


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

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

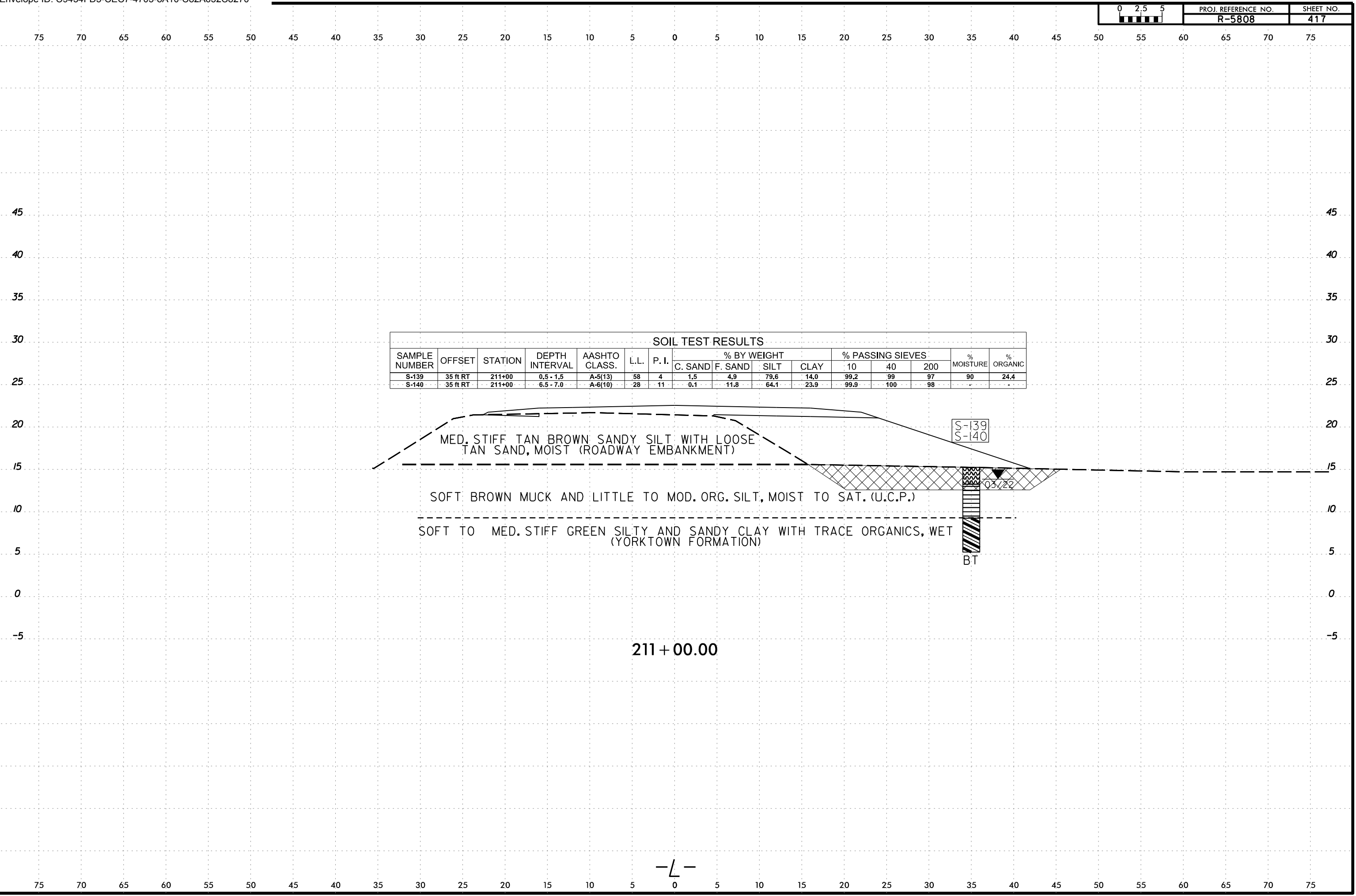
SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET  
(YORKTOWN FORMATION)

210 + 50.00





6/23/16  
2-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone

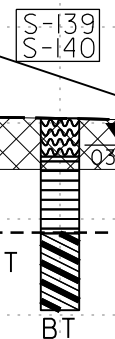


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-139	35 ft RT	211+00	0.5 - 1.5	A-5(13)	58	4	1.5	4.9	79.6	14.0	99.2	99	97	90	24.4
S-140	35 ft RT	211+00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

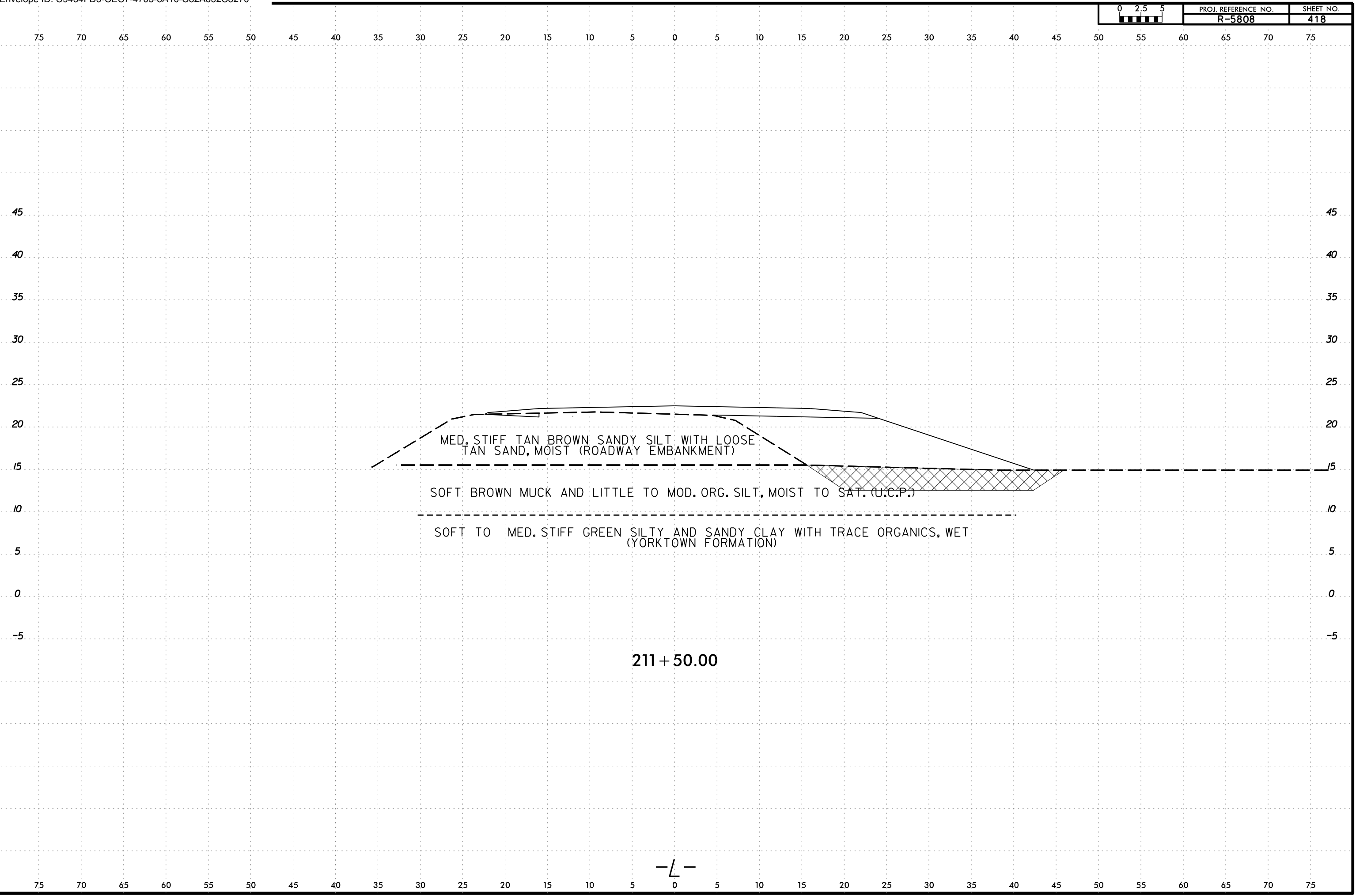
SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)



211 + 00.00

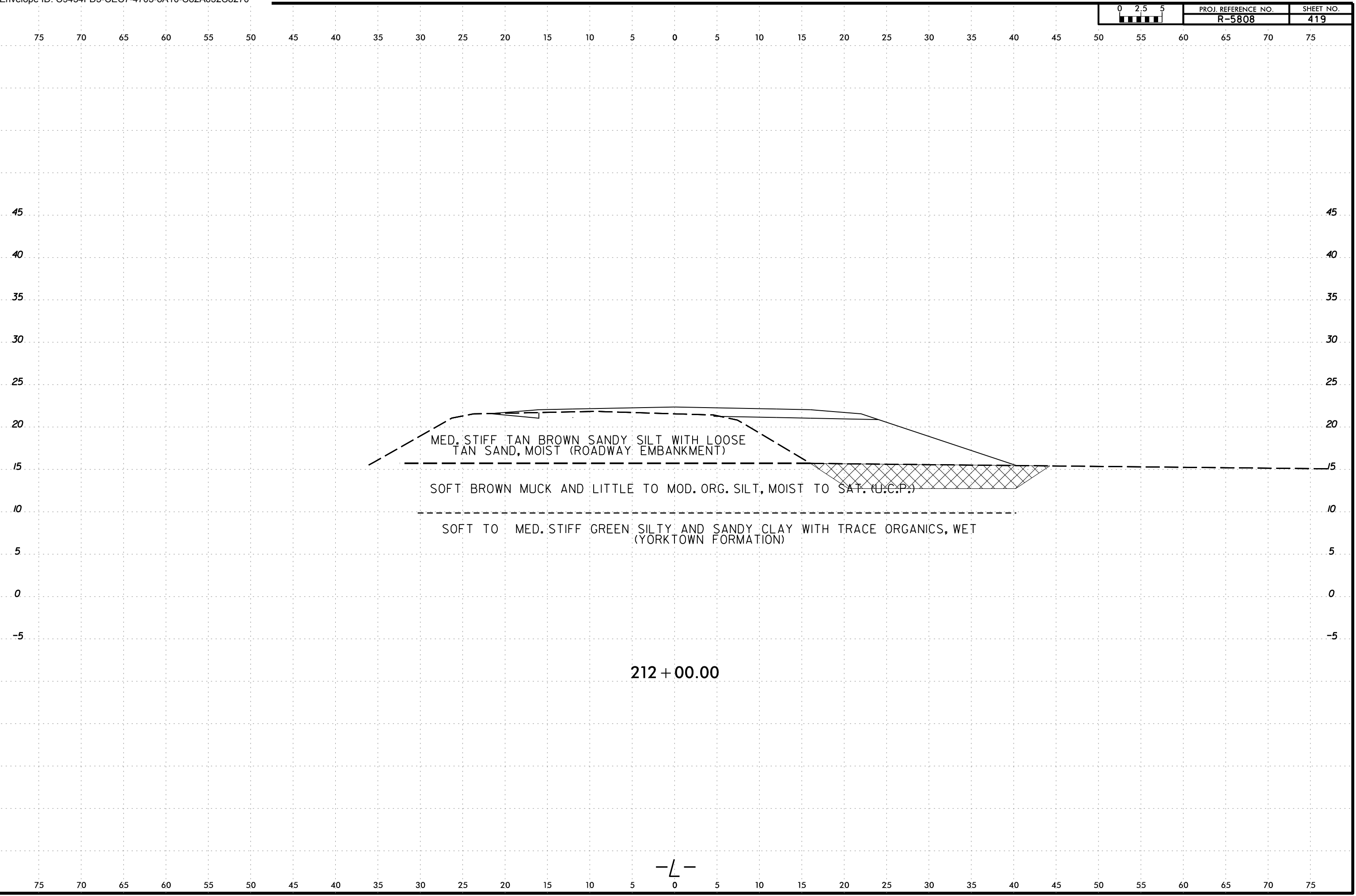
-L-

6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn



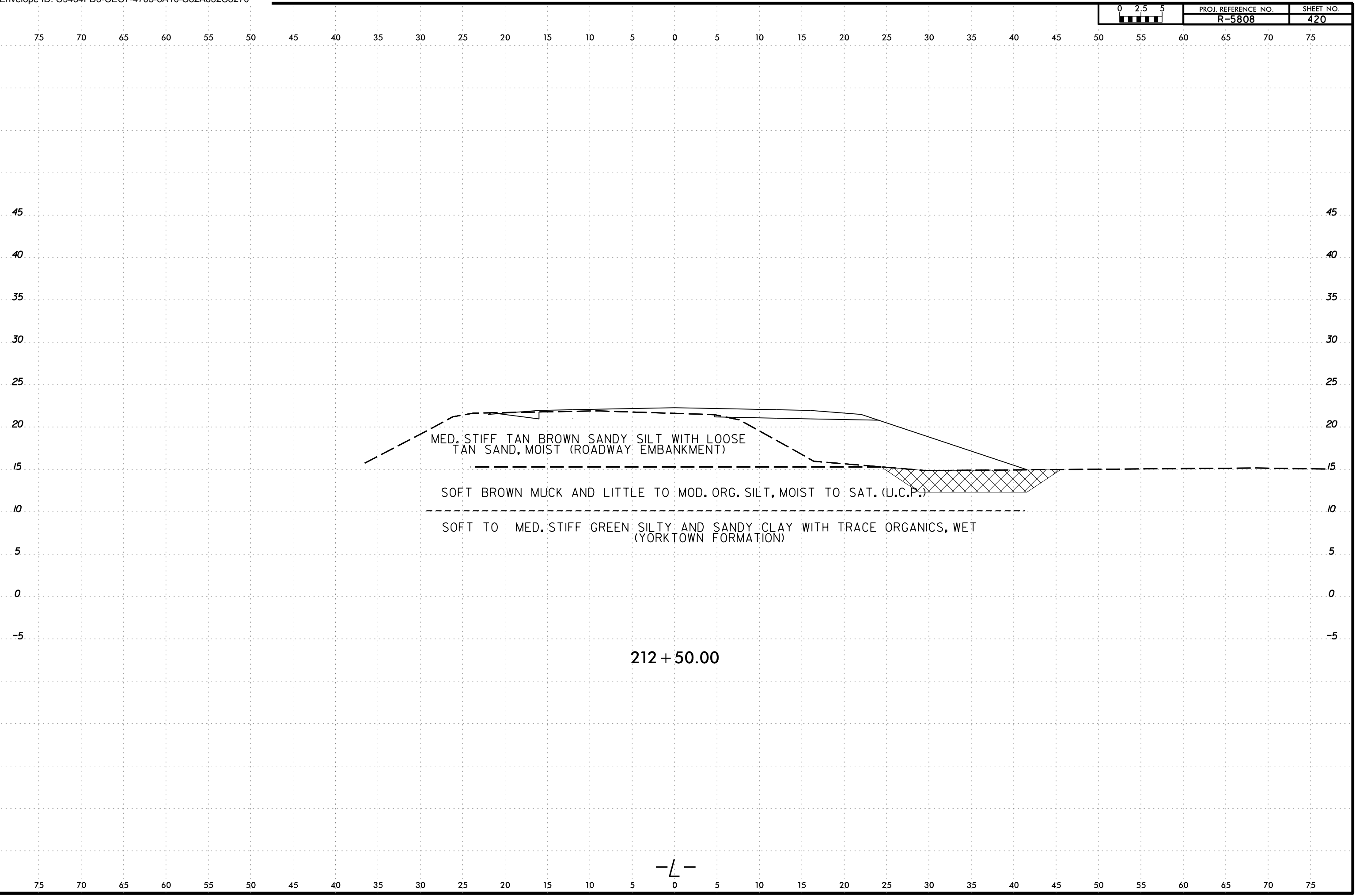
-L-

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



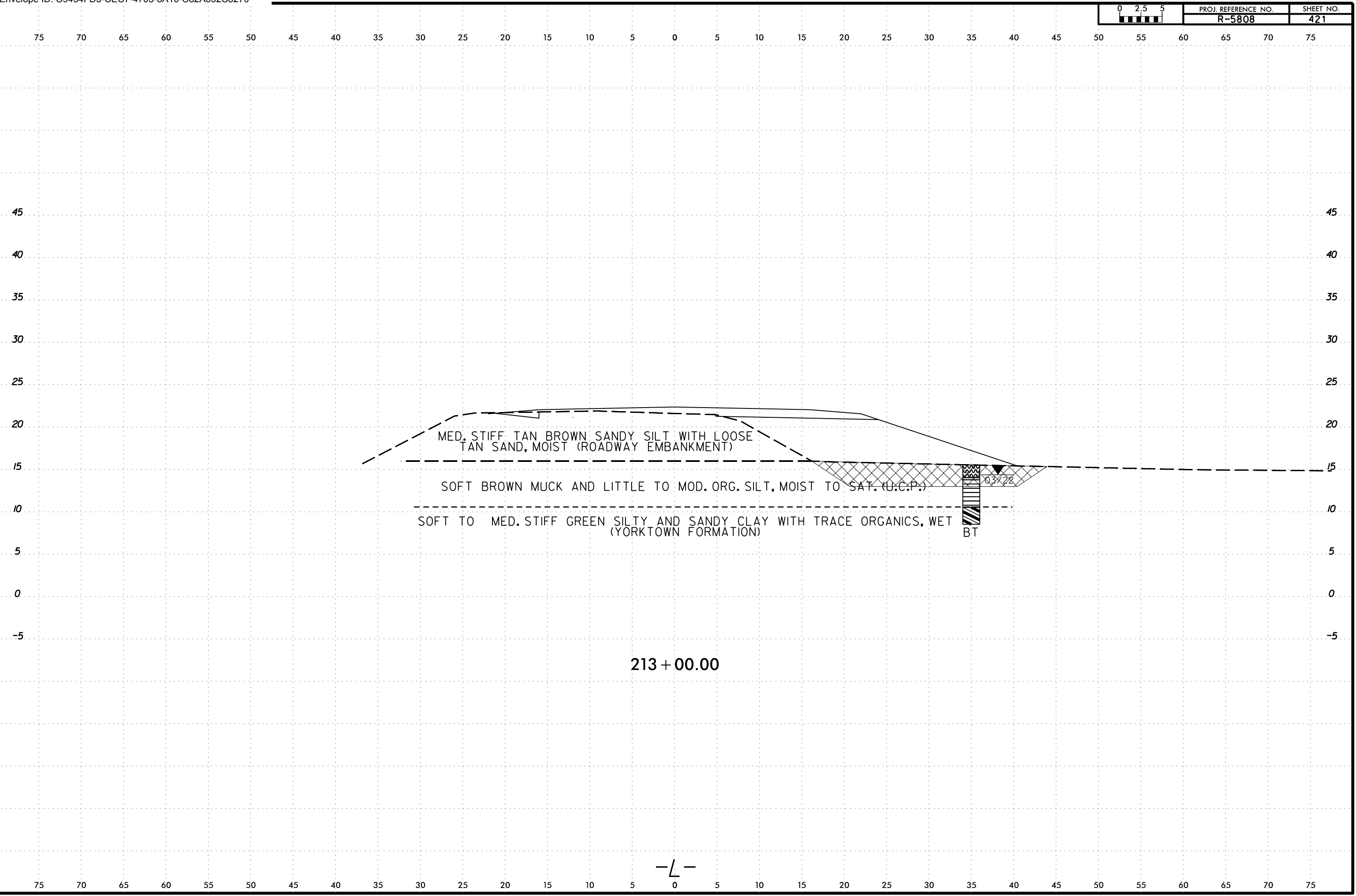
-L-

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone



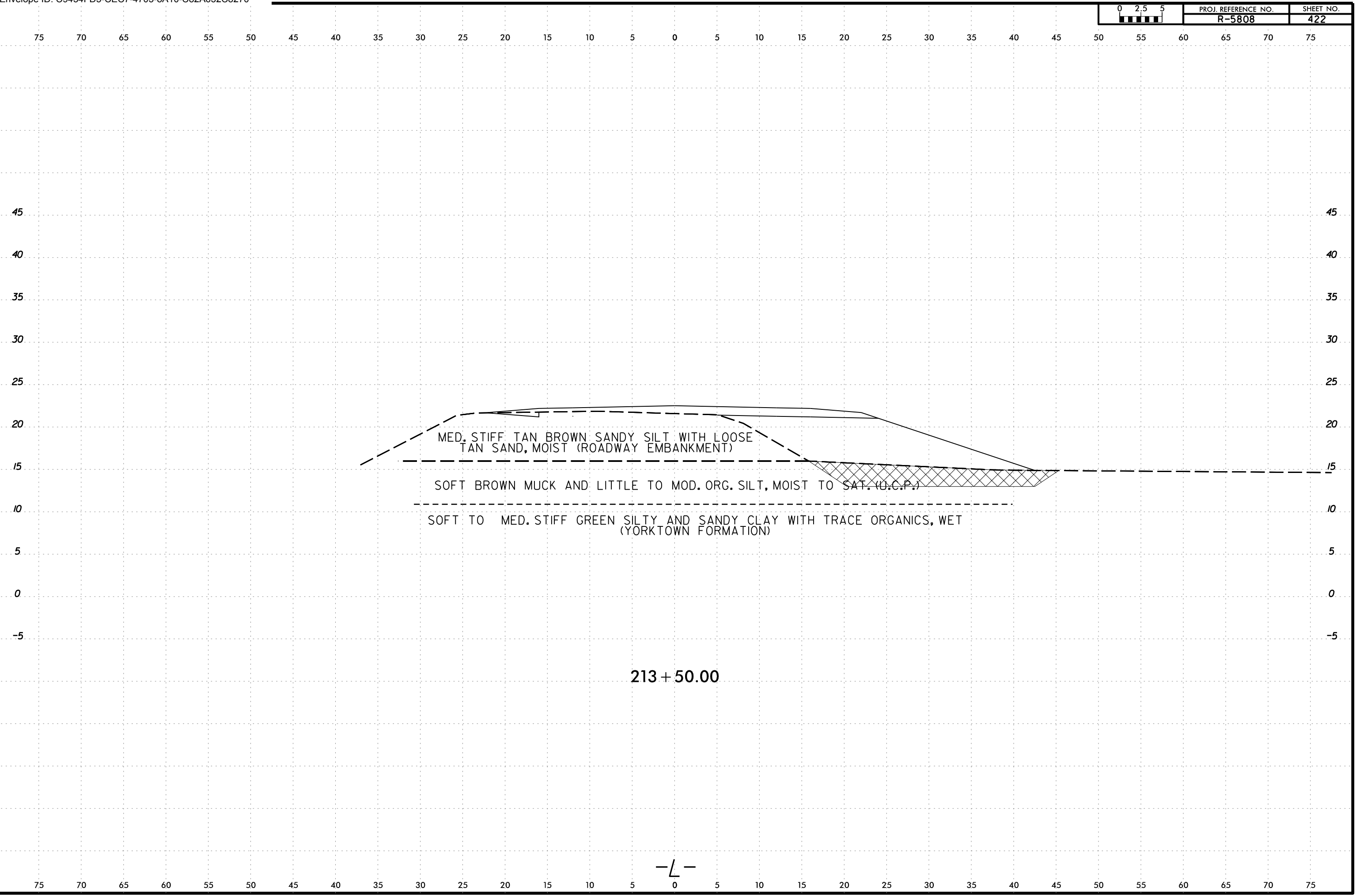
-L-

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



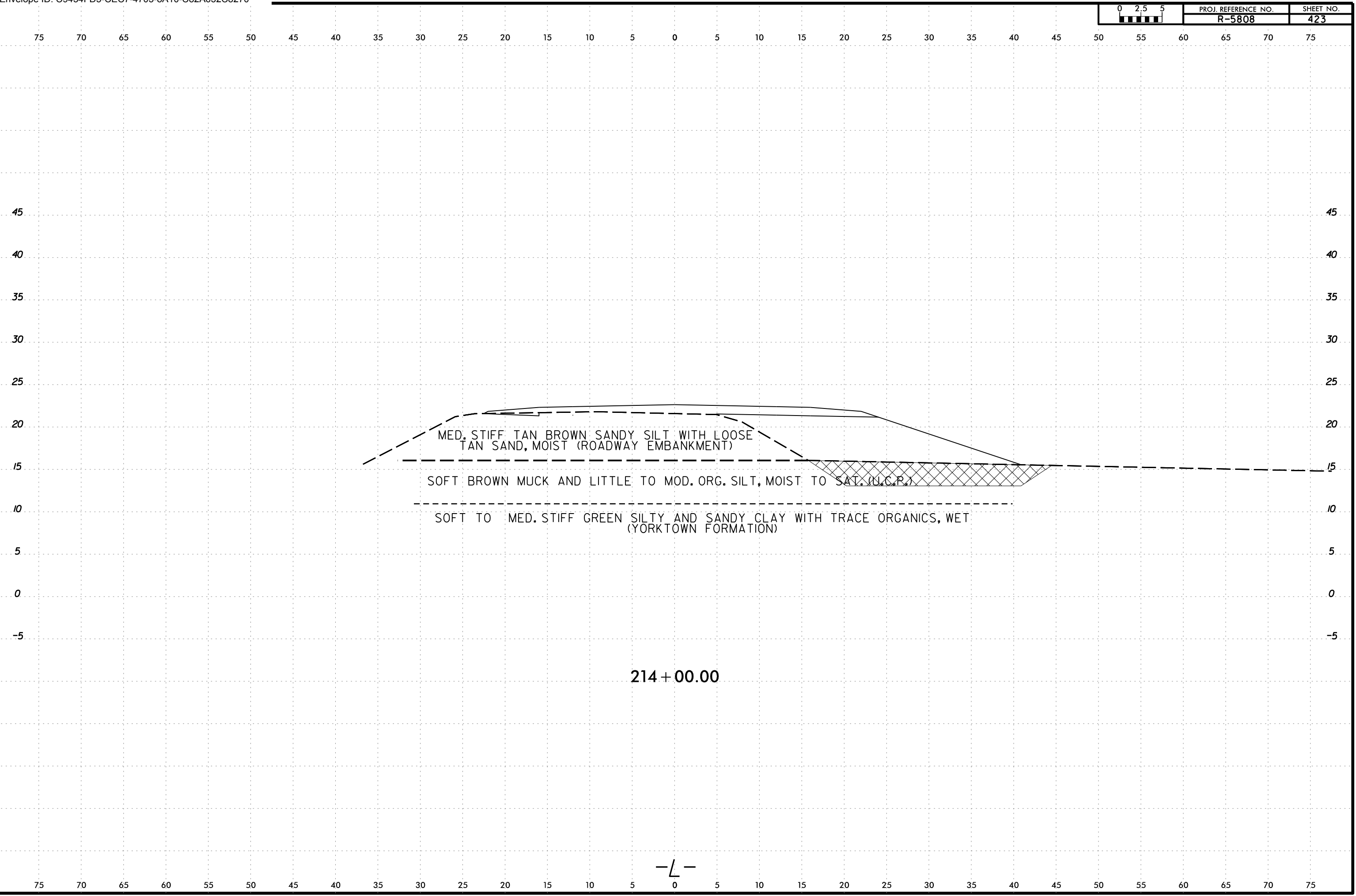
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone

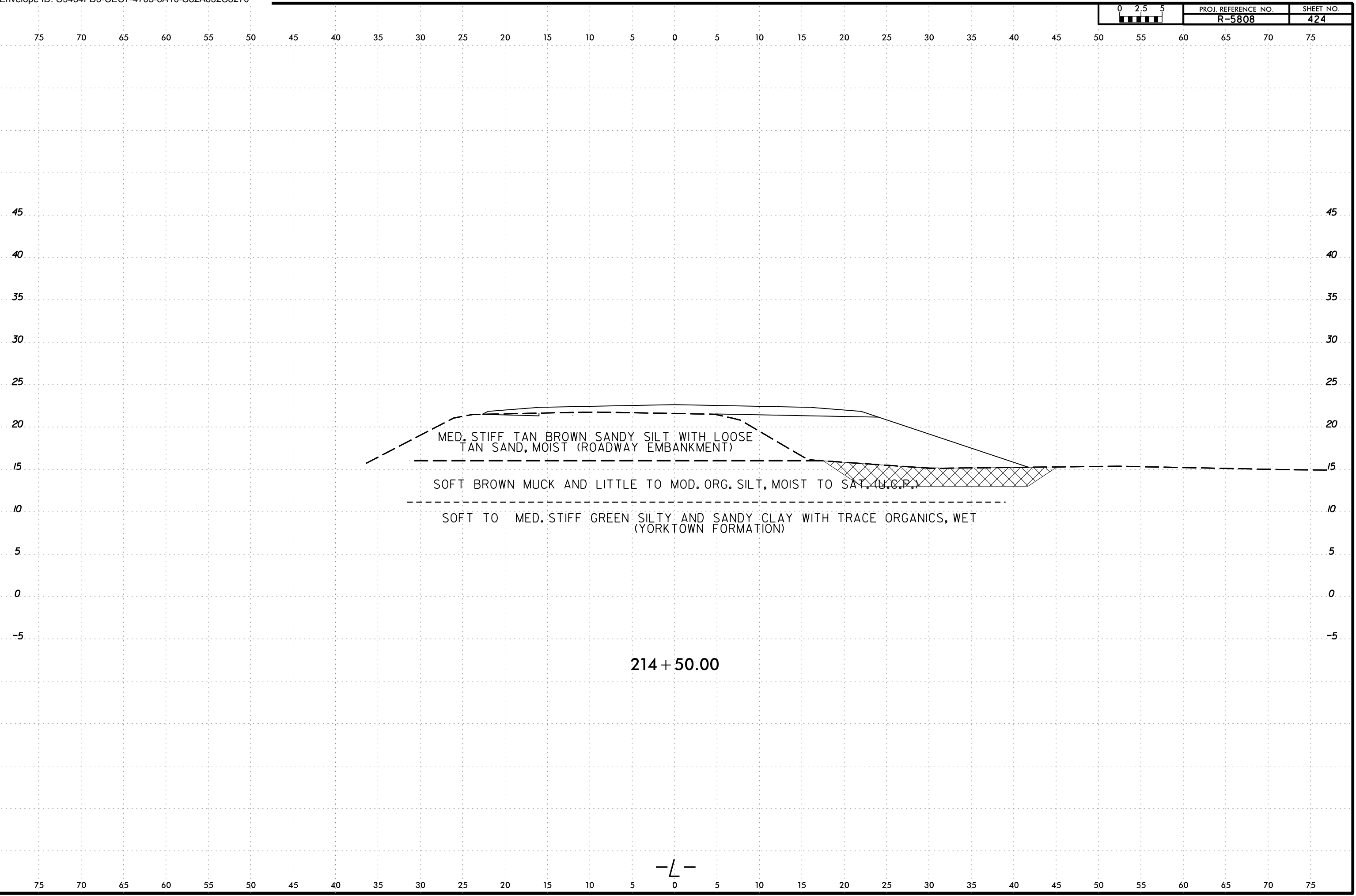


-L-

6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



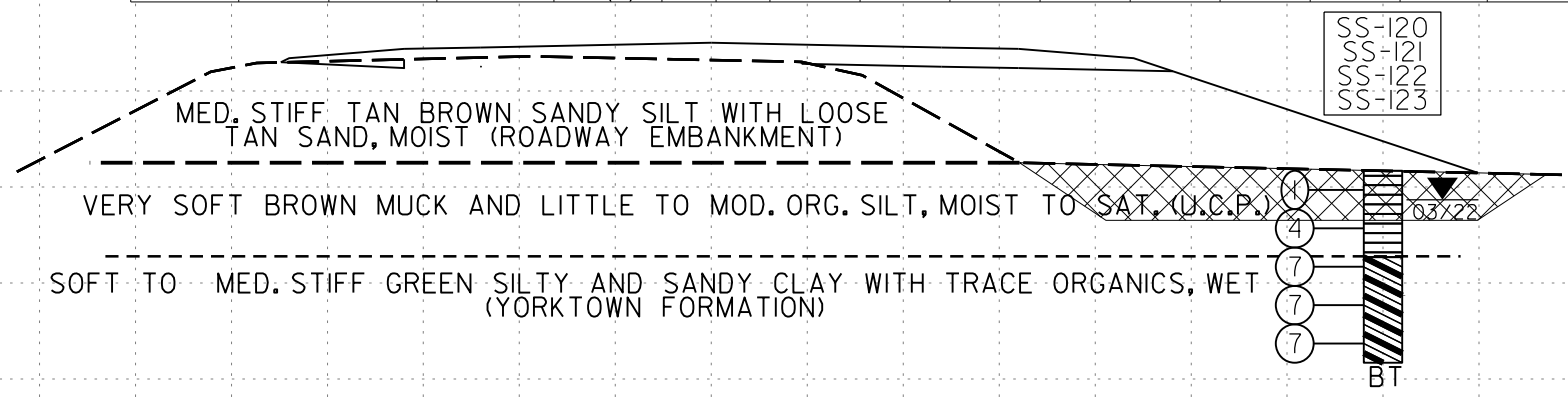
6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



-L-



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-120	35 ft RT	215+00	0.0 - 2.0	A-4(5)	33	4		
SS-121	35 ft RT	215+00	2.0 - 4.0	A-6(10)	29	12	1.0	9.8	52.5	36.6	99.9	100	96	-	4.6
SS-122	35 ft RT	215+00	4.5 - 6.0	A-6(13)	31	14	0.2	14.4	59.1	26.4	100	100	98	-	-
SS-123	35 ft RT	215+00	6.0 - 8.0	A-6(20)	38	20	0.6	12.4	54.5	32.5	100	100	97	-	-



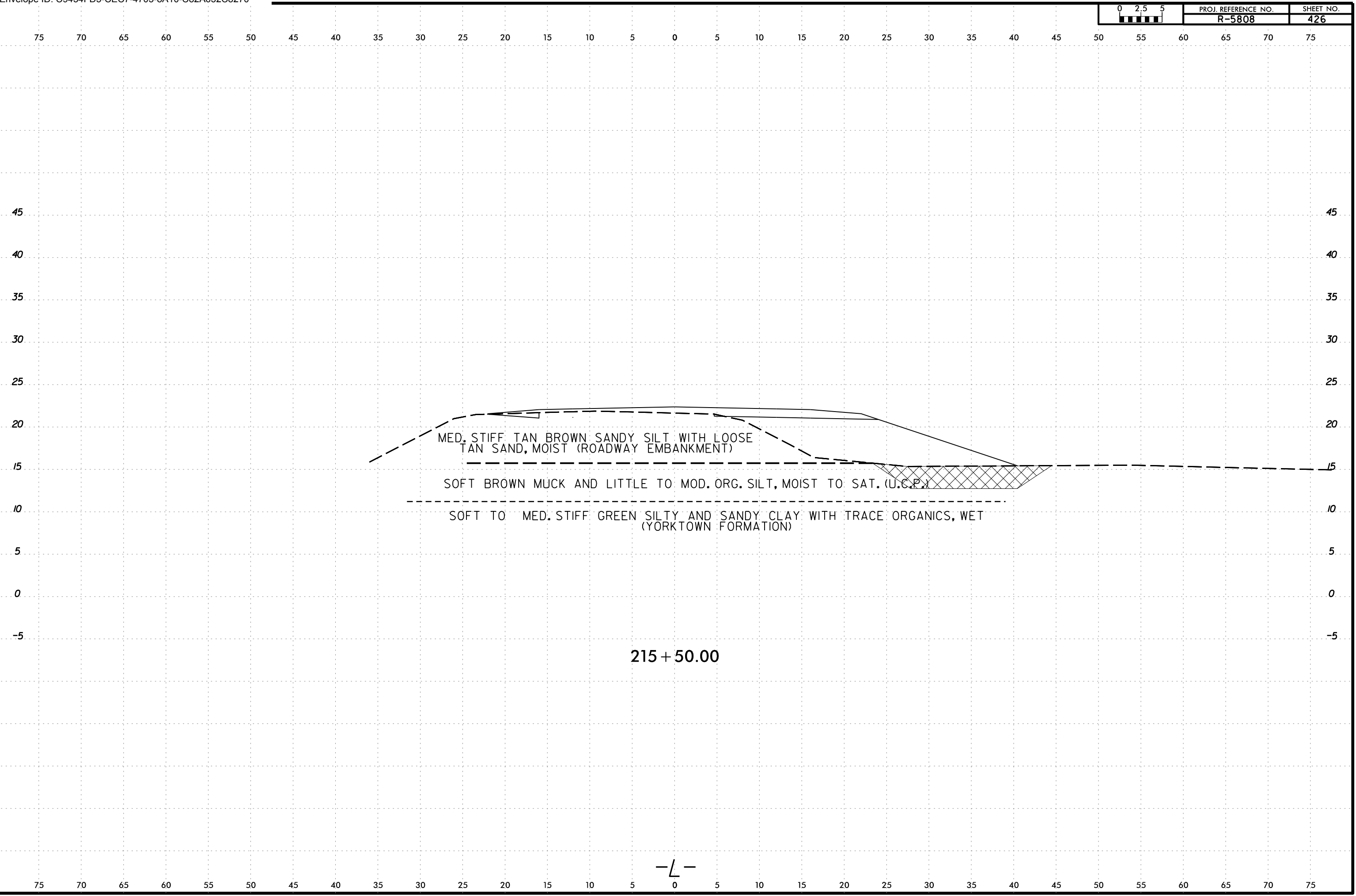
215 + 00.00

-L-

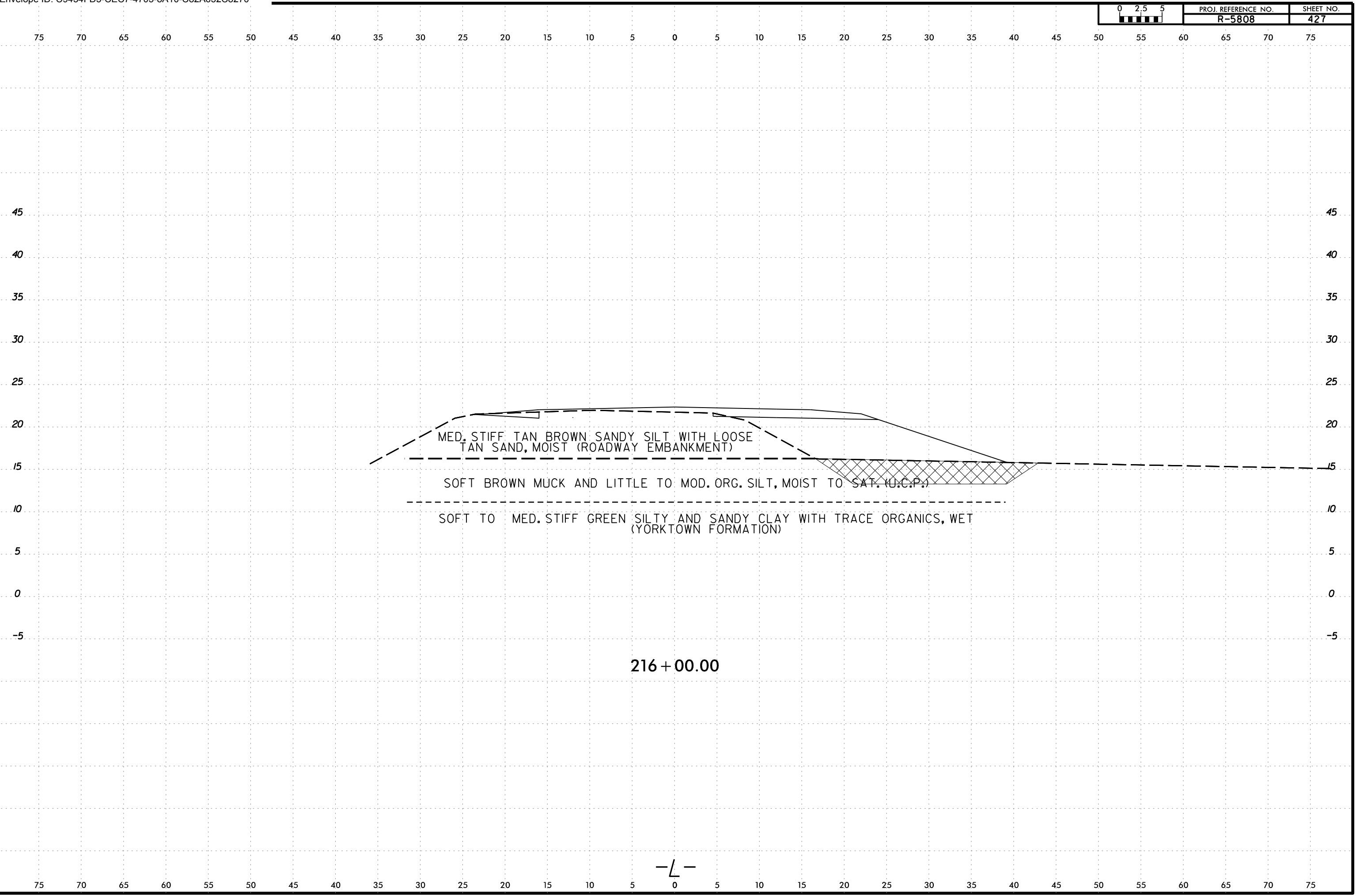
21-MAY-2024 16:54  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\SSC\RS808L\_Geo\_XSR\_2.dgn  
 jstone

6/23/16

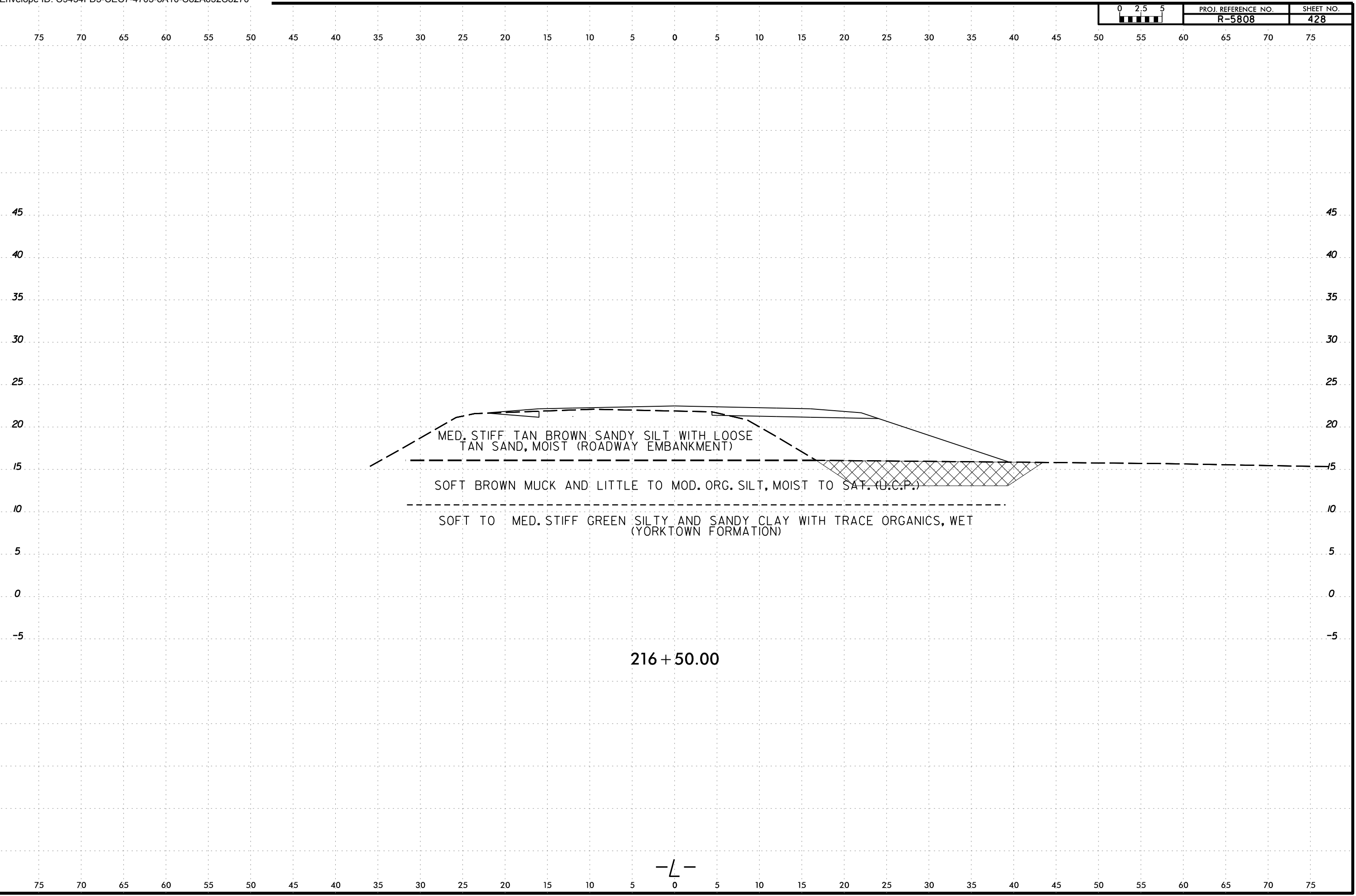
6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



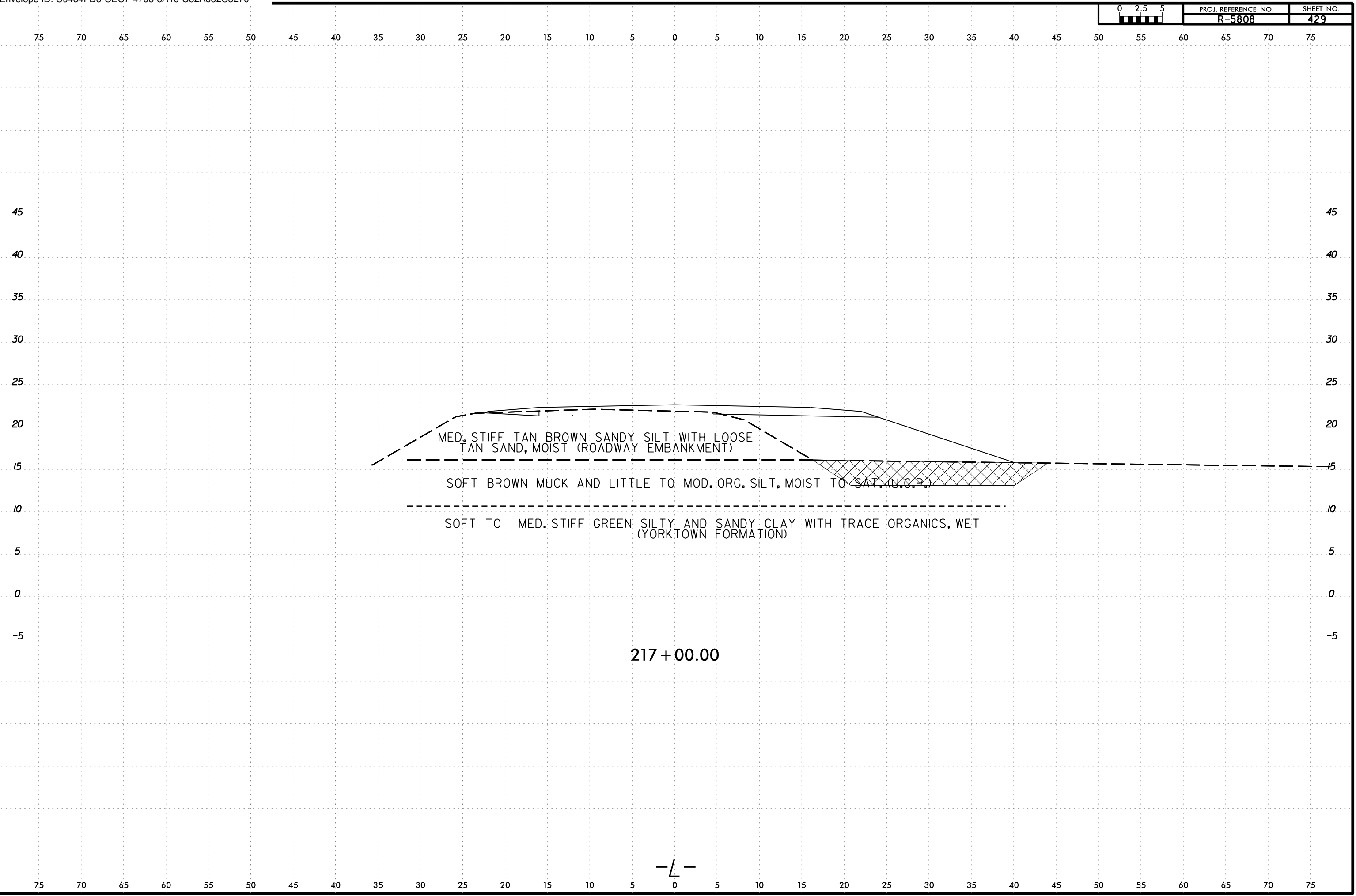
6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\RDWY\CADD\_GEO\RDWY\CADD\_GEO\XSR\_2.dgn  
jstone



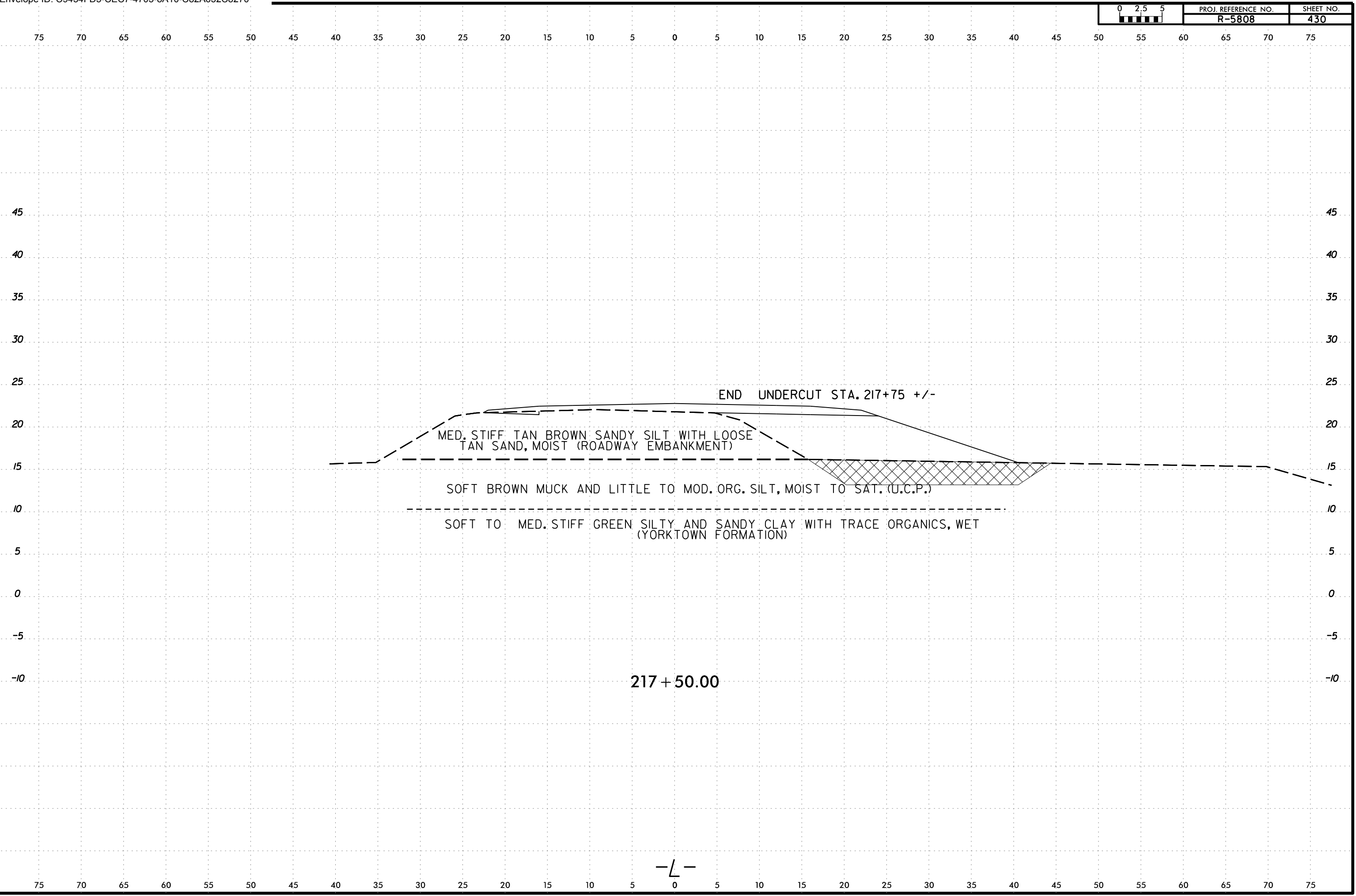
6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDOT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



END UNDERCUT STA. 217+75 +/-

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

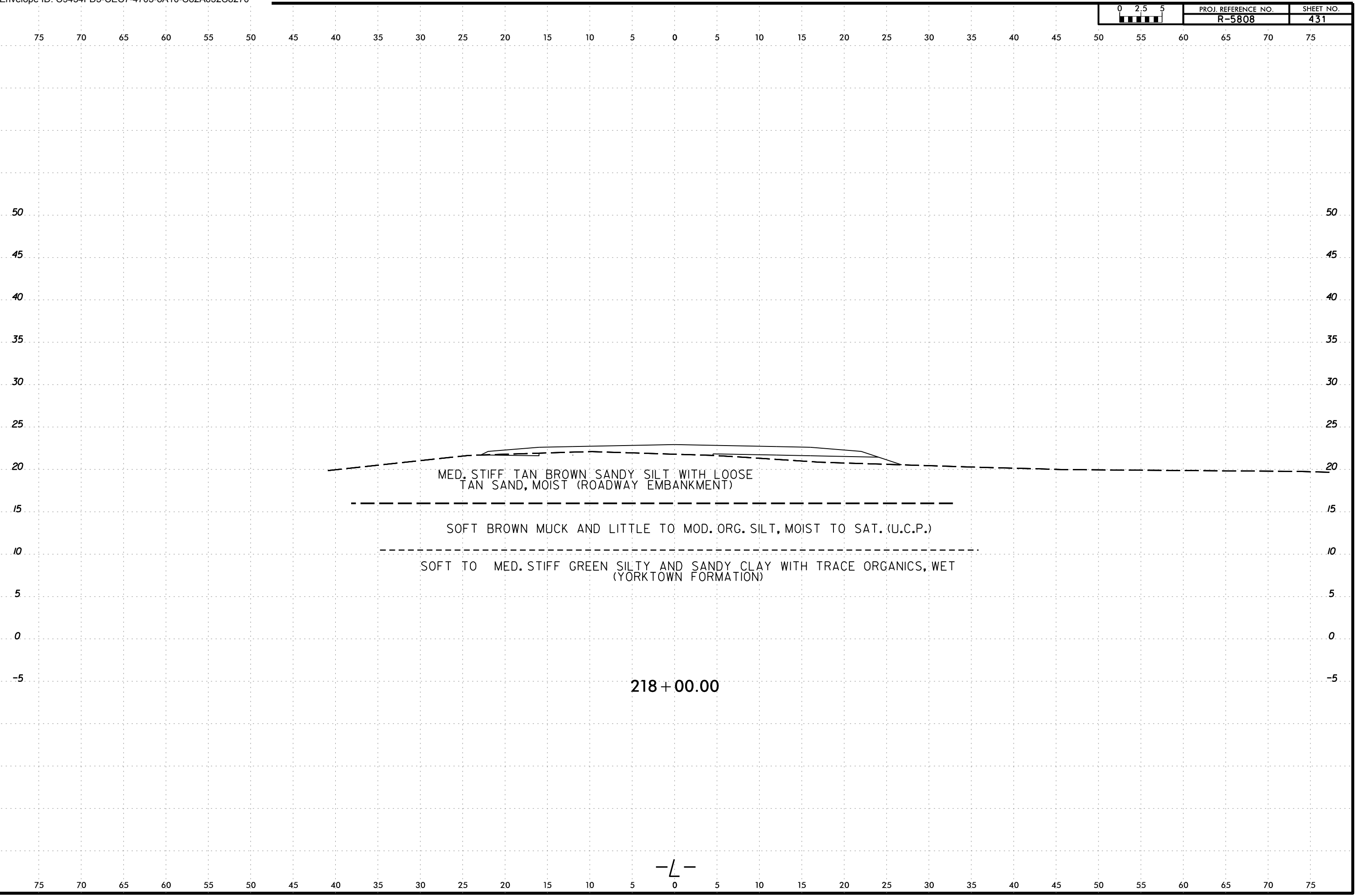
SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

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

217+50.00

-L-

6/23/16  
21-MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18

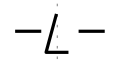


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

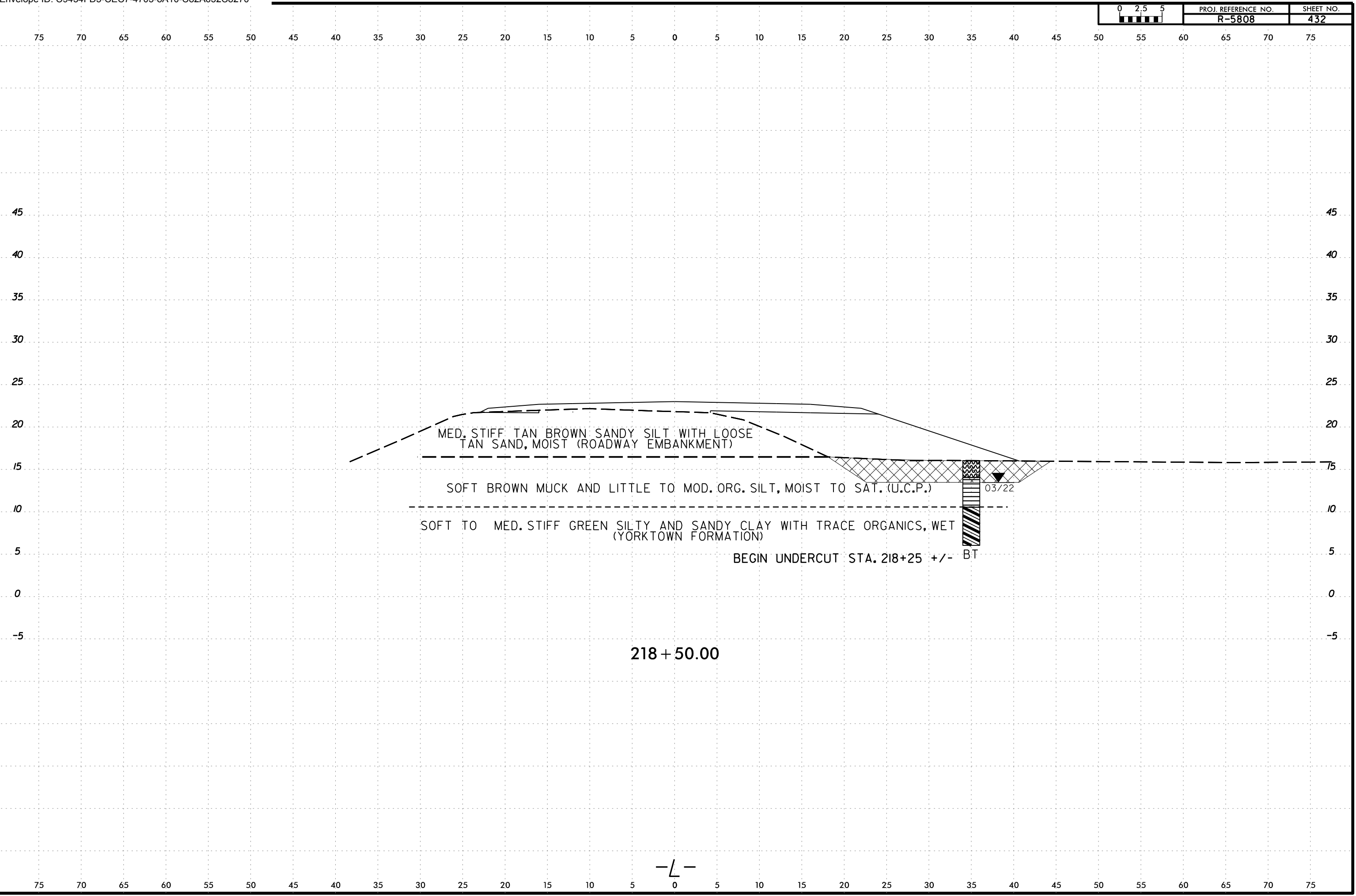
SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

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

218 + 00.00



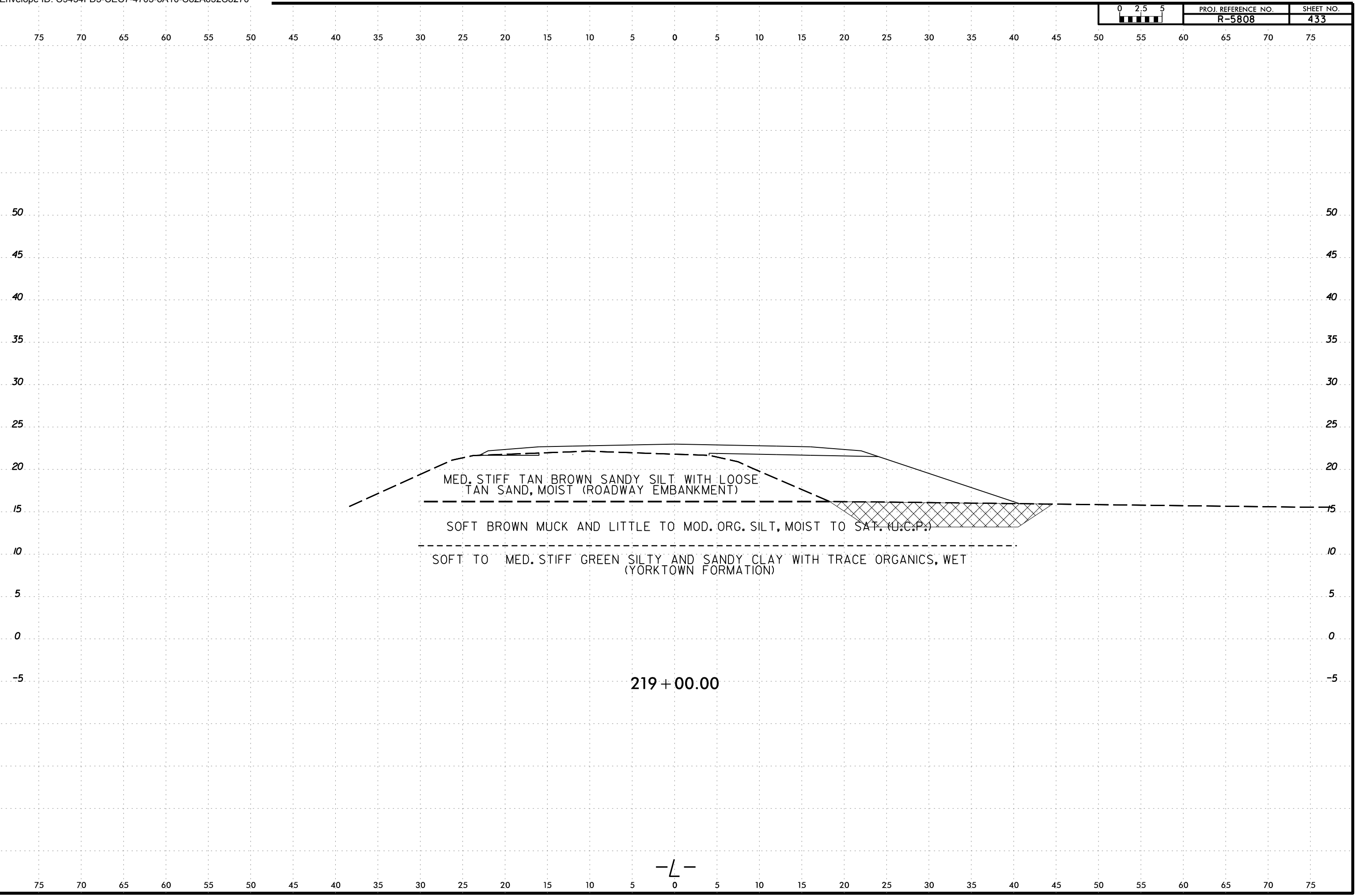
6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone



-L-

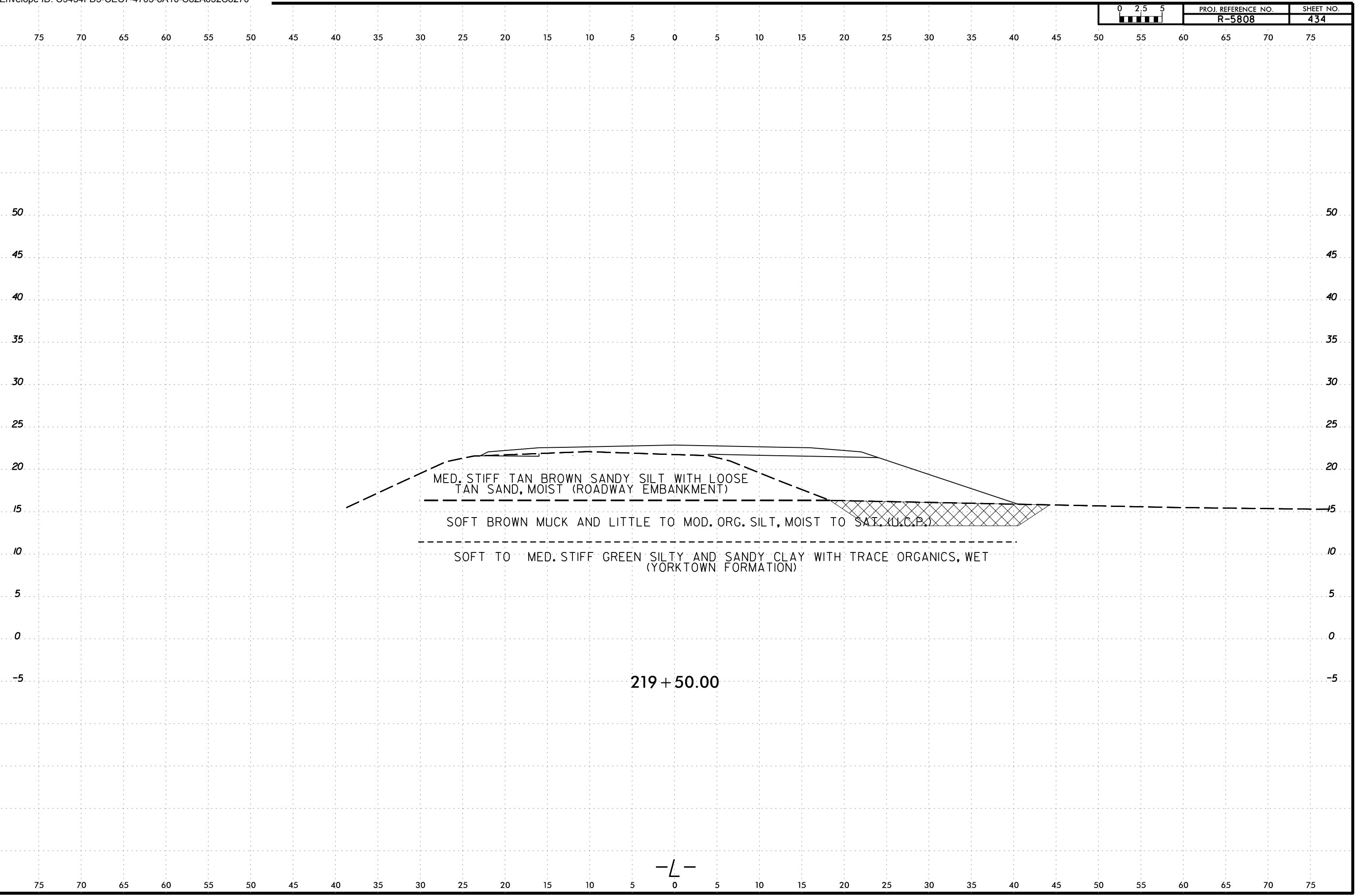


6/23/16  
21MAY-2024 16:54  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone



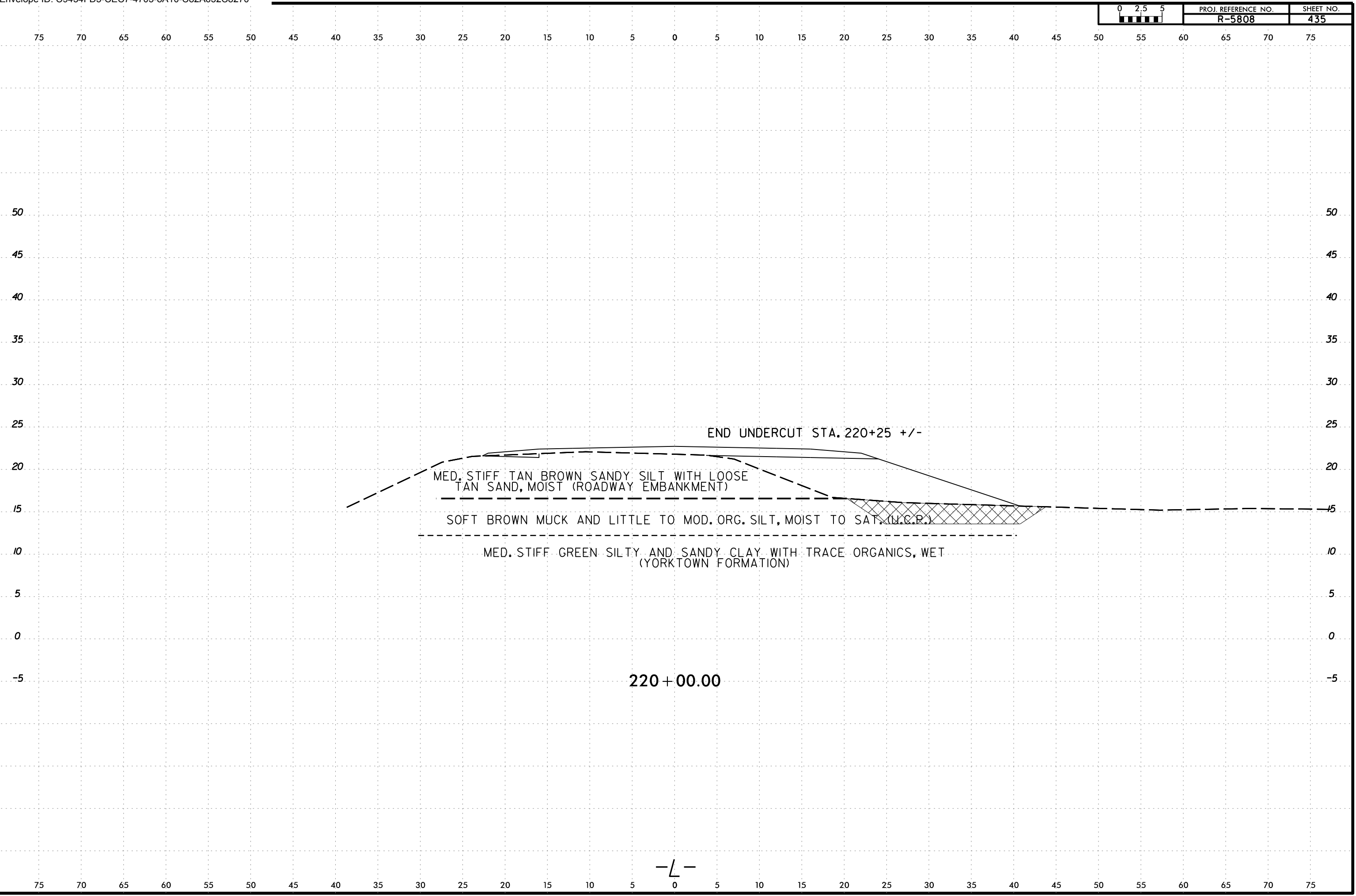
-L-

6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\GEO\TECH\XSC\R5808\_Geo\_XSR\_2.dgn  
jstone



-L-

6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone



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.R.)

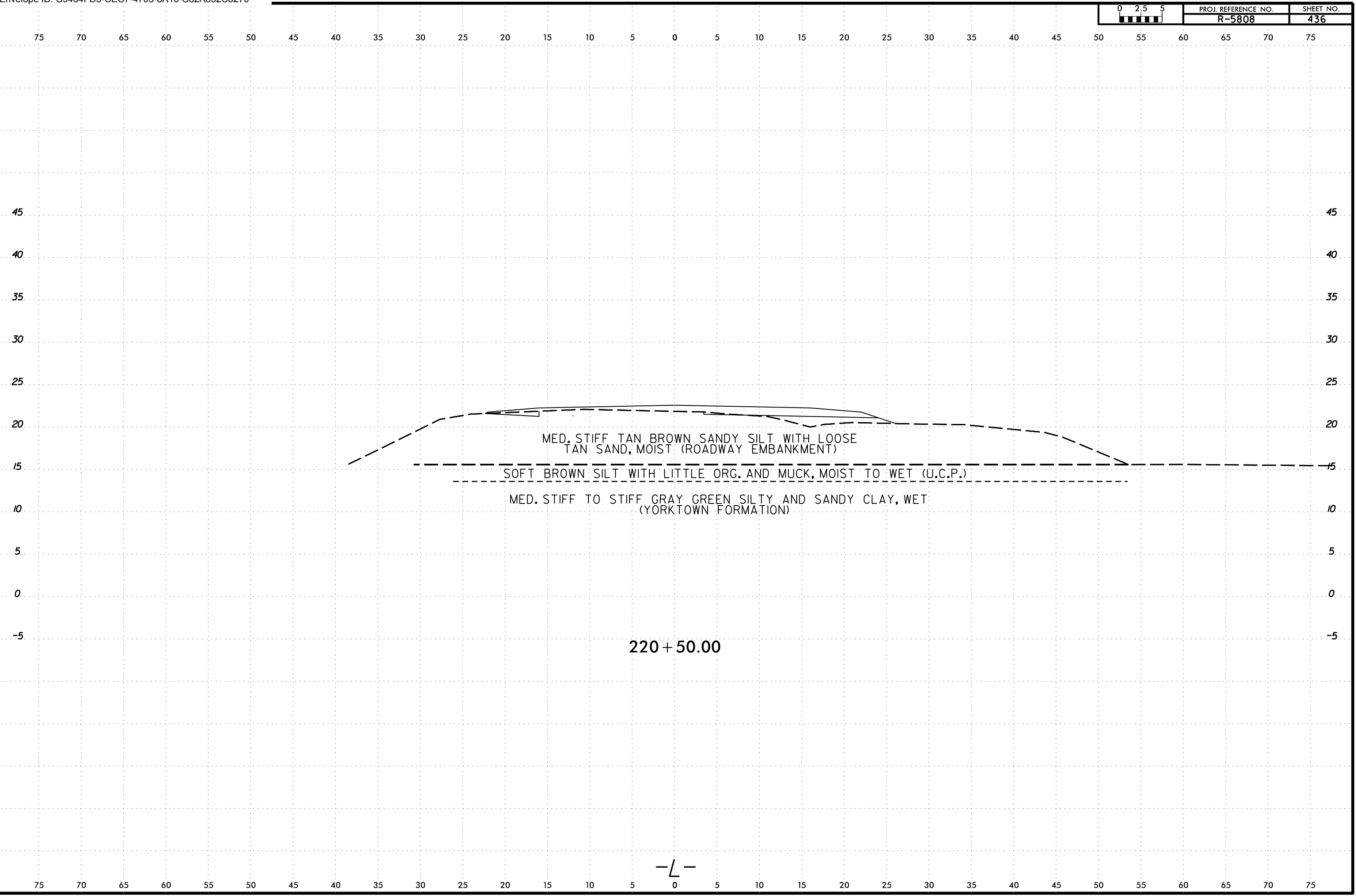
MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

END UNDERCUT STA. 220+25 +/-

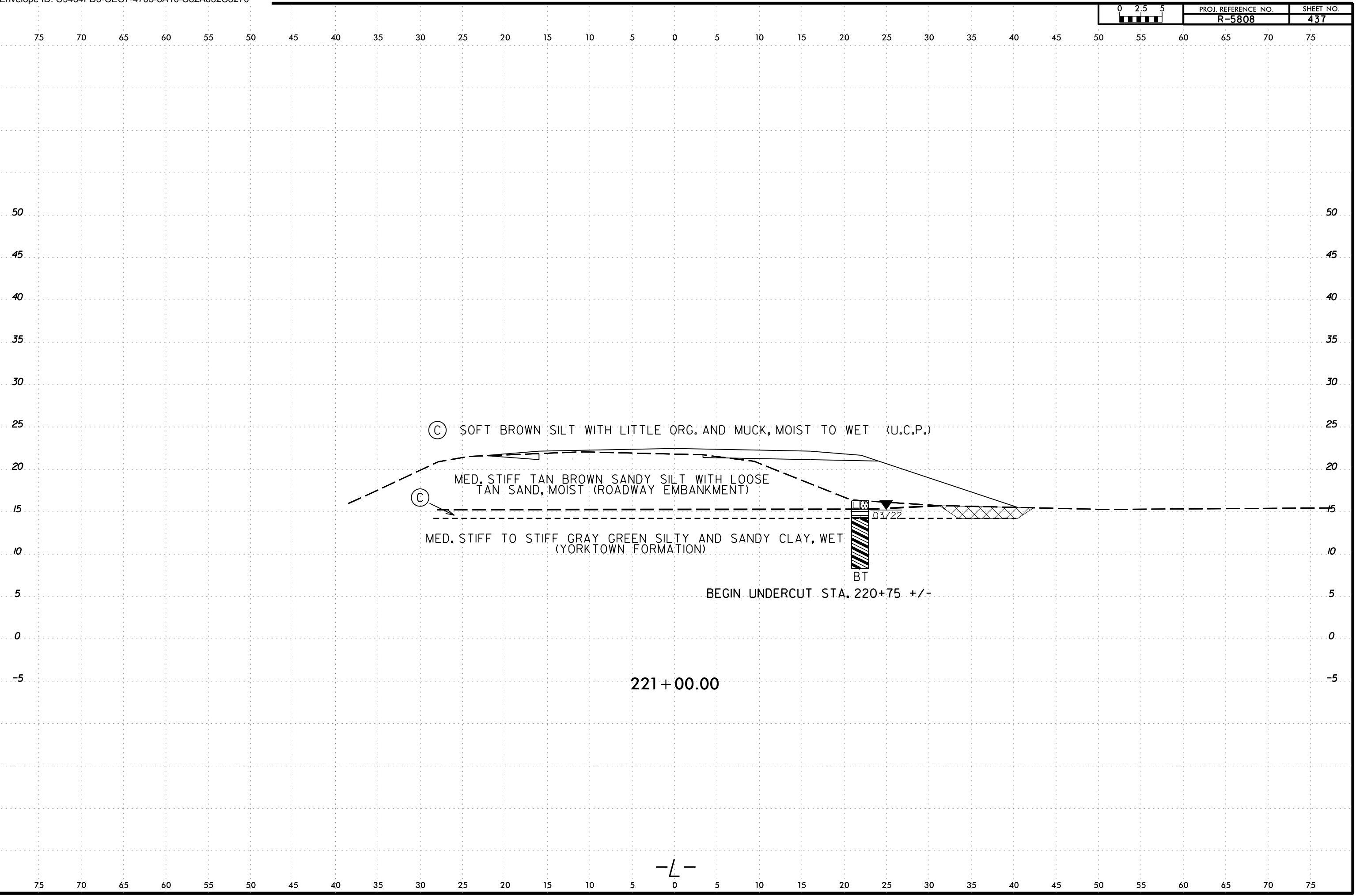
220 + 00.00

-L-

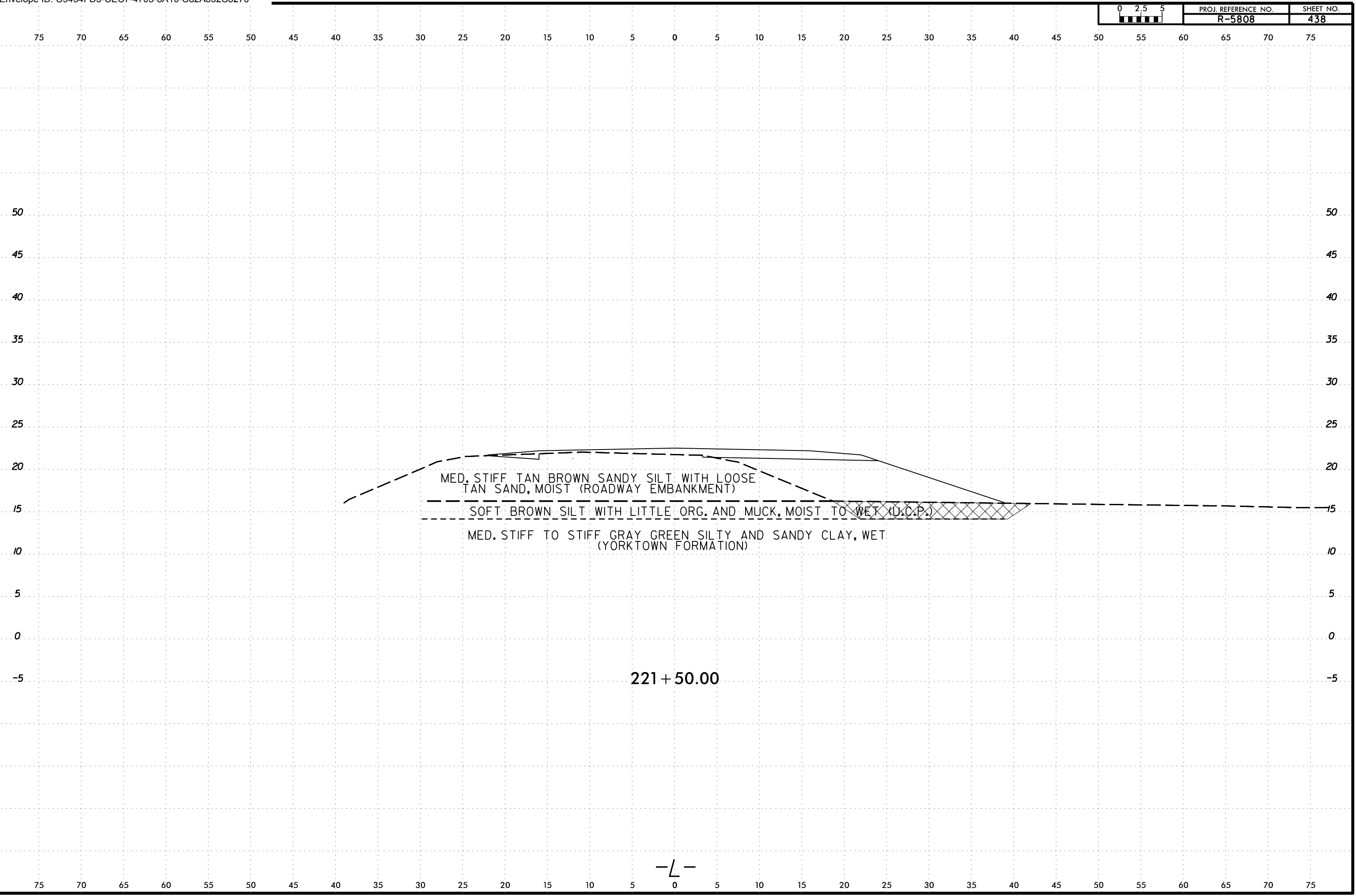
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone



6/23/16  
21MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



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

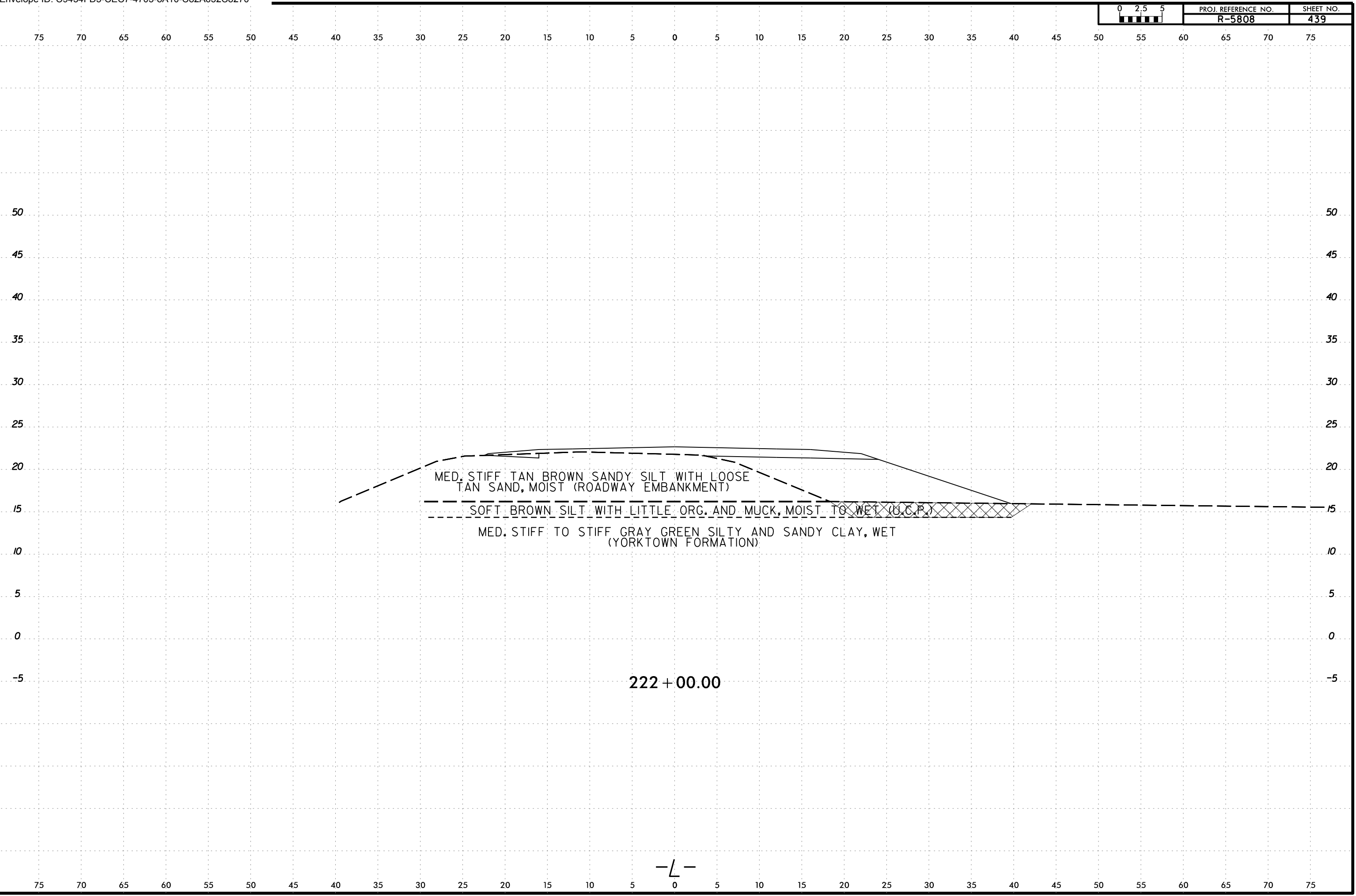
SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)

221+50.00

-L-

6/23/16  
21MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone



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

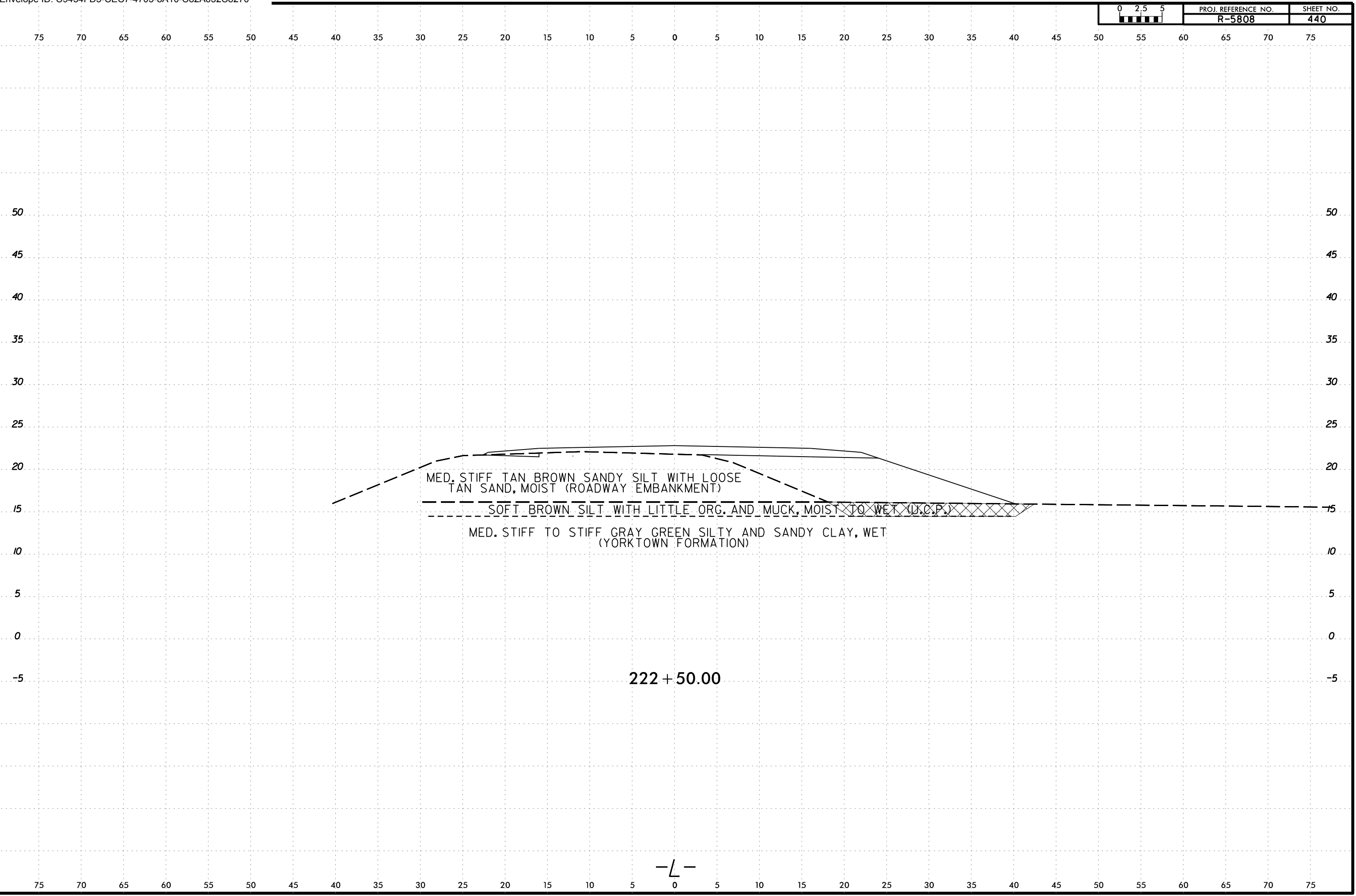
SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)

222 + 00.00

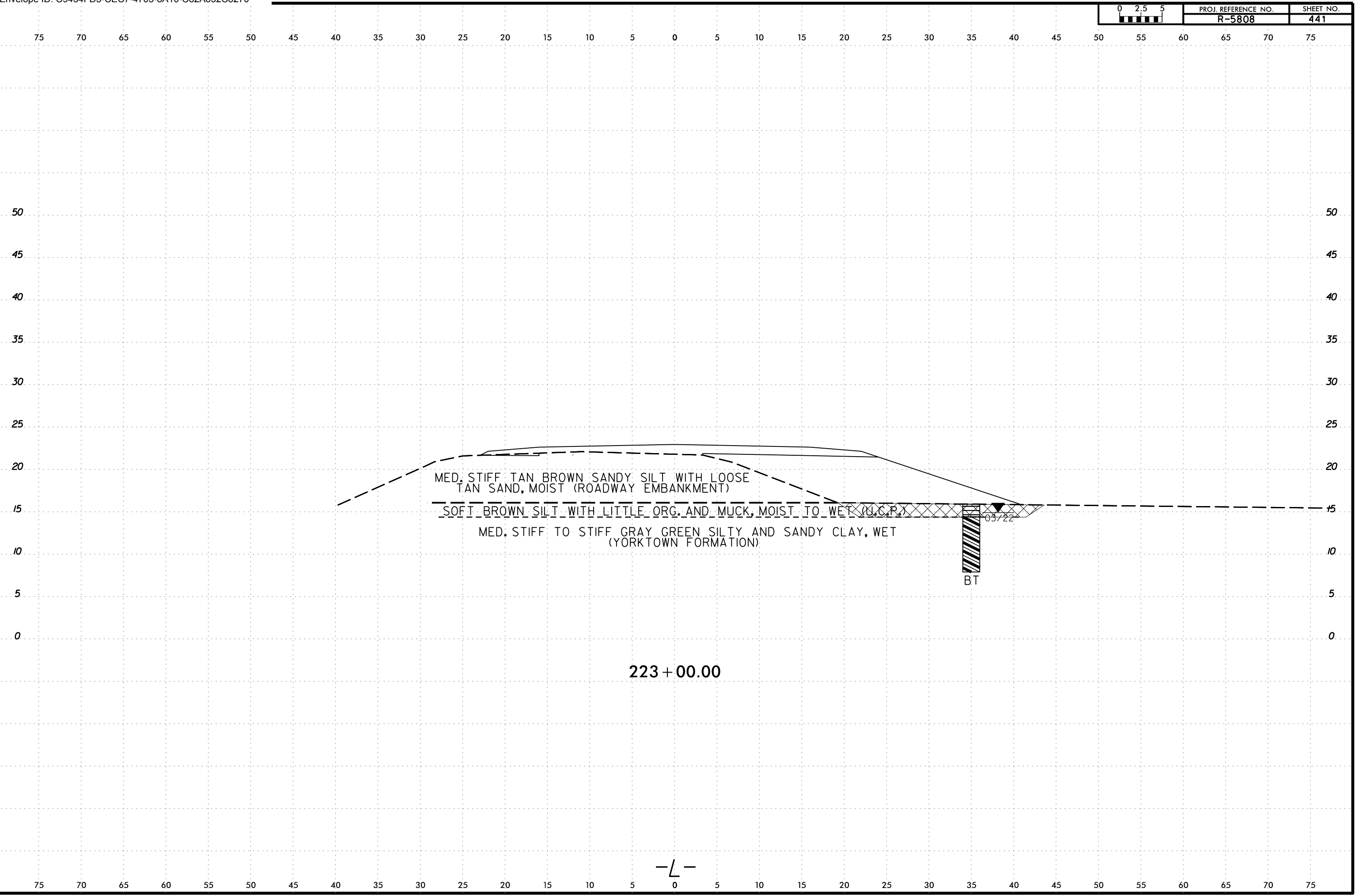
-L-

6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone





6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone



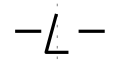
MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

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

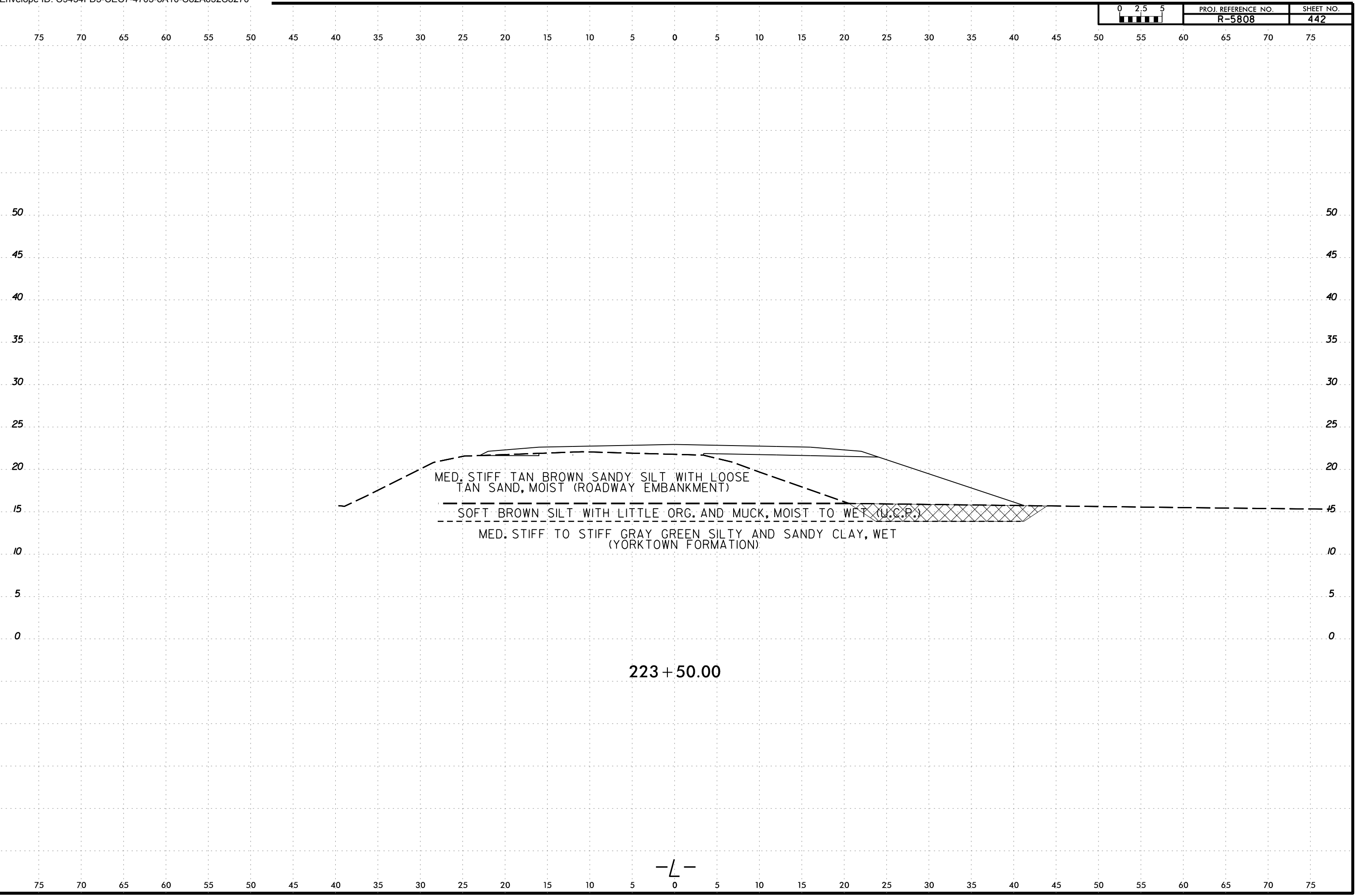
MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)

BT  
03/22

223 + 00.00



6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone

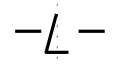


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

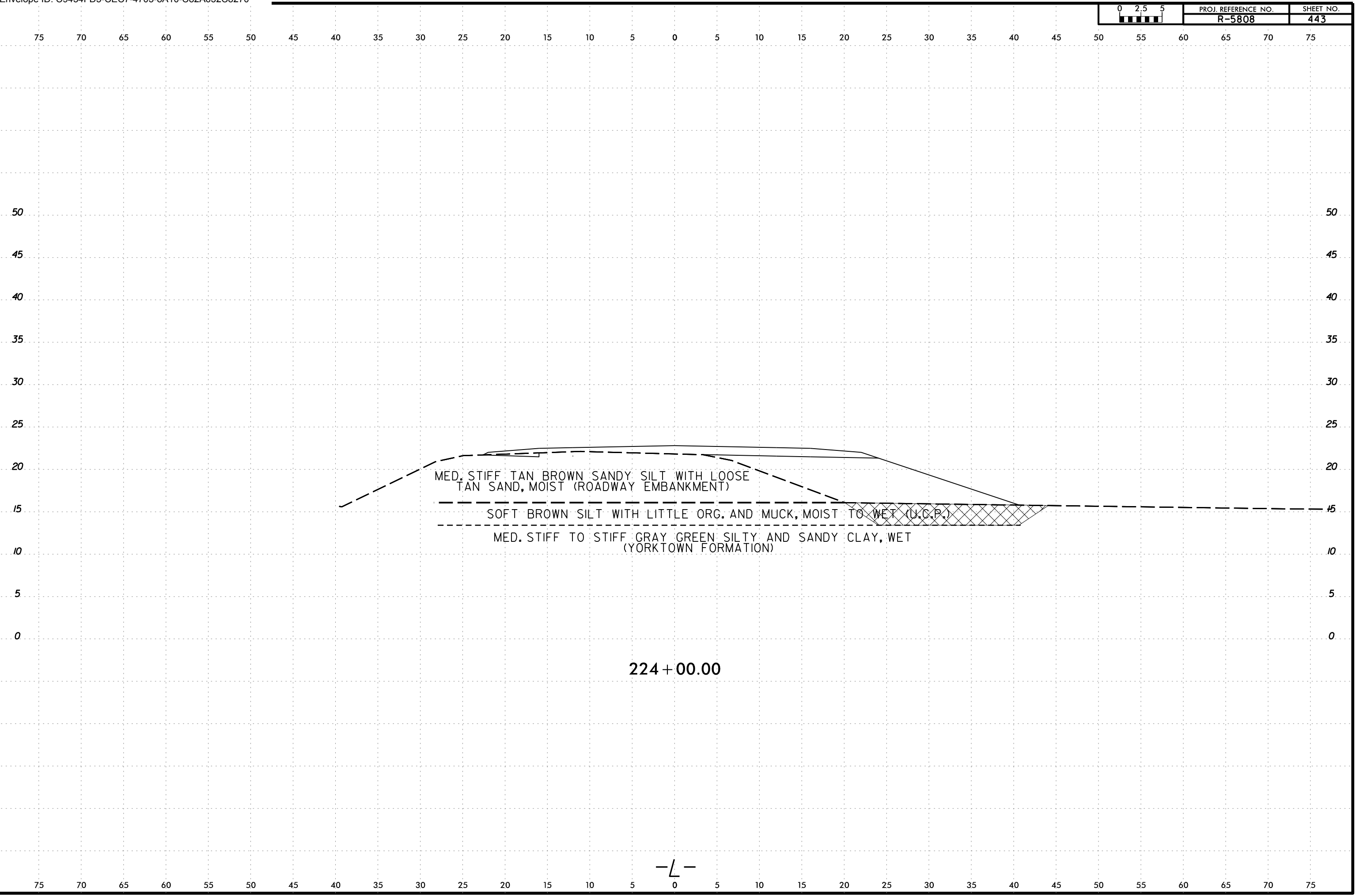
SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)

223 + 50.00



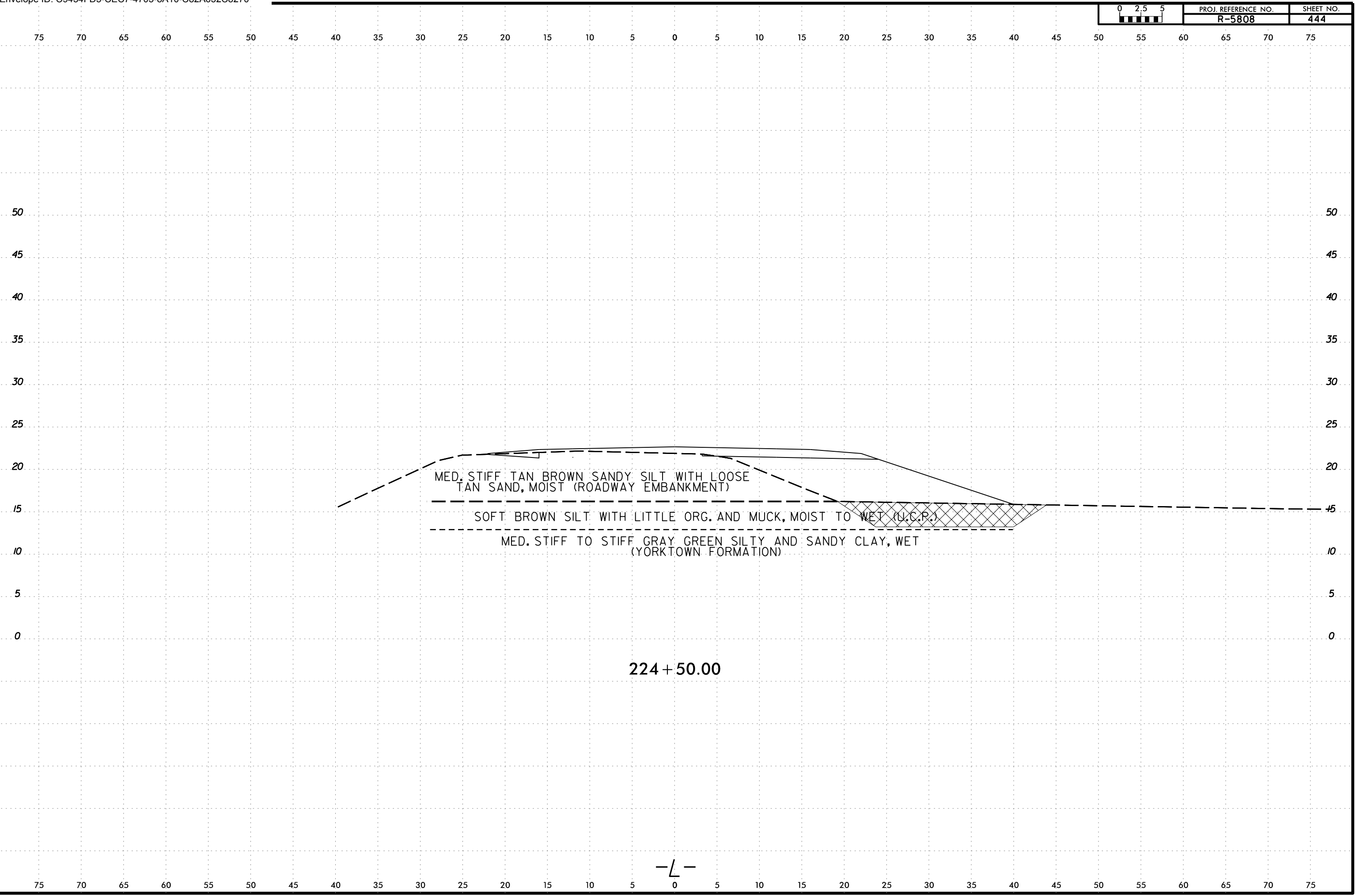
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone



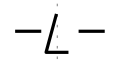
224 + 00.00

—L—

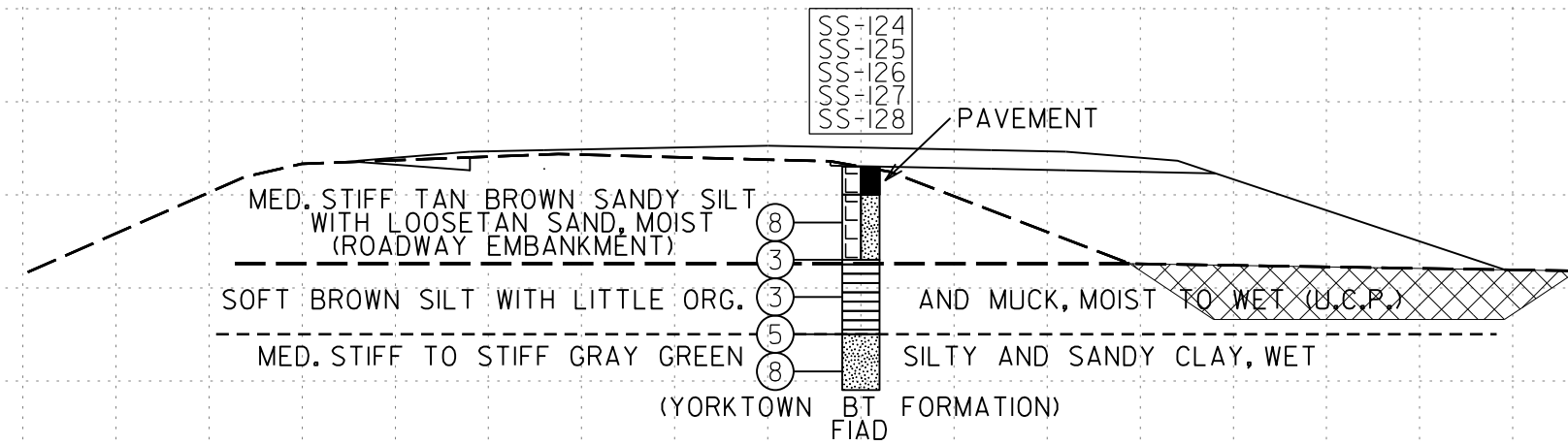
6/23/16  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn



224 + 50.00



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-124	35 ft RT	225+00	2.0 - 4.0	A-4(6)	28	8	1.6	18.2	51.7	28.5	100	99	91	-	-
SS-125	35 ft RT	225+00	4.0 - 6.0	A-6(8)	30	12	7.4	18.4	51.9	22.2	87.2	97	80	-	6.5
SS-126	35 ft RT	225+00	6.0 - 8.0	A-5(7)	49	1	2.6	14.4	70.8	12.2	94.4	99	90	-	-
SS-127	35 ft RT	225+00	8.0 - 9.0	A-4(5)	33	4	2.9	16.2	62.7	18.2	95.9	99	90	-	9.9
SS-128	35 ft RT	225+00	9.0 - 10.0	A-4(6)	25	8	0.5	18.8	54.0	26.7	100	100	93	-	-



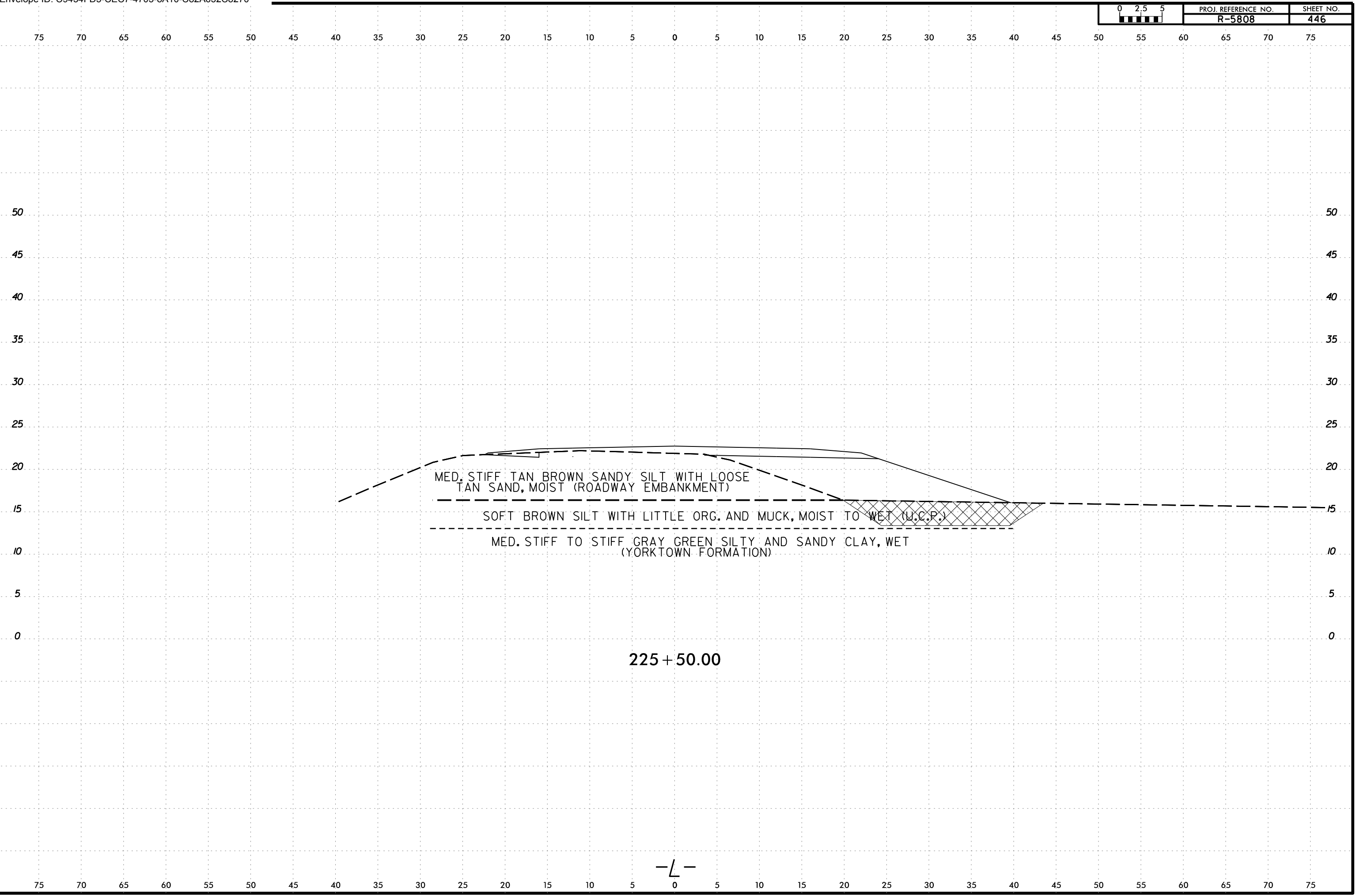
225 + 00.00

-L-

21-MAY-2024 16:55  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\SSC\RS808\_GEO\_XSR\_2.dgn  
 jstone

6/23/16

6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone

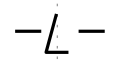


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

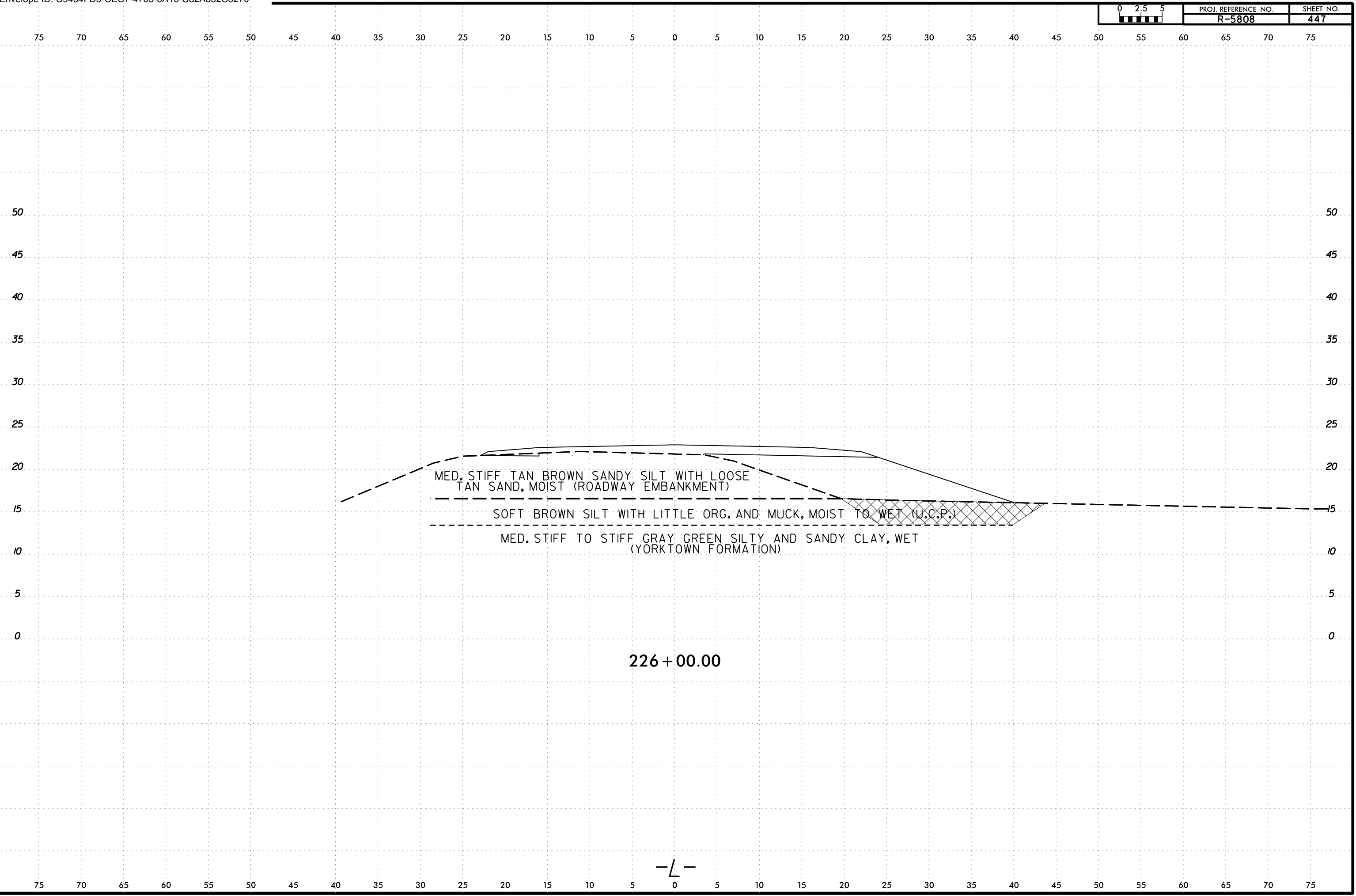
SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)

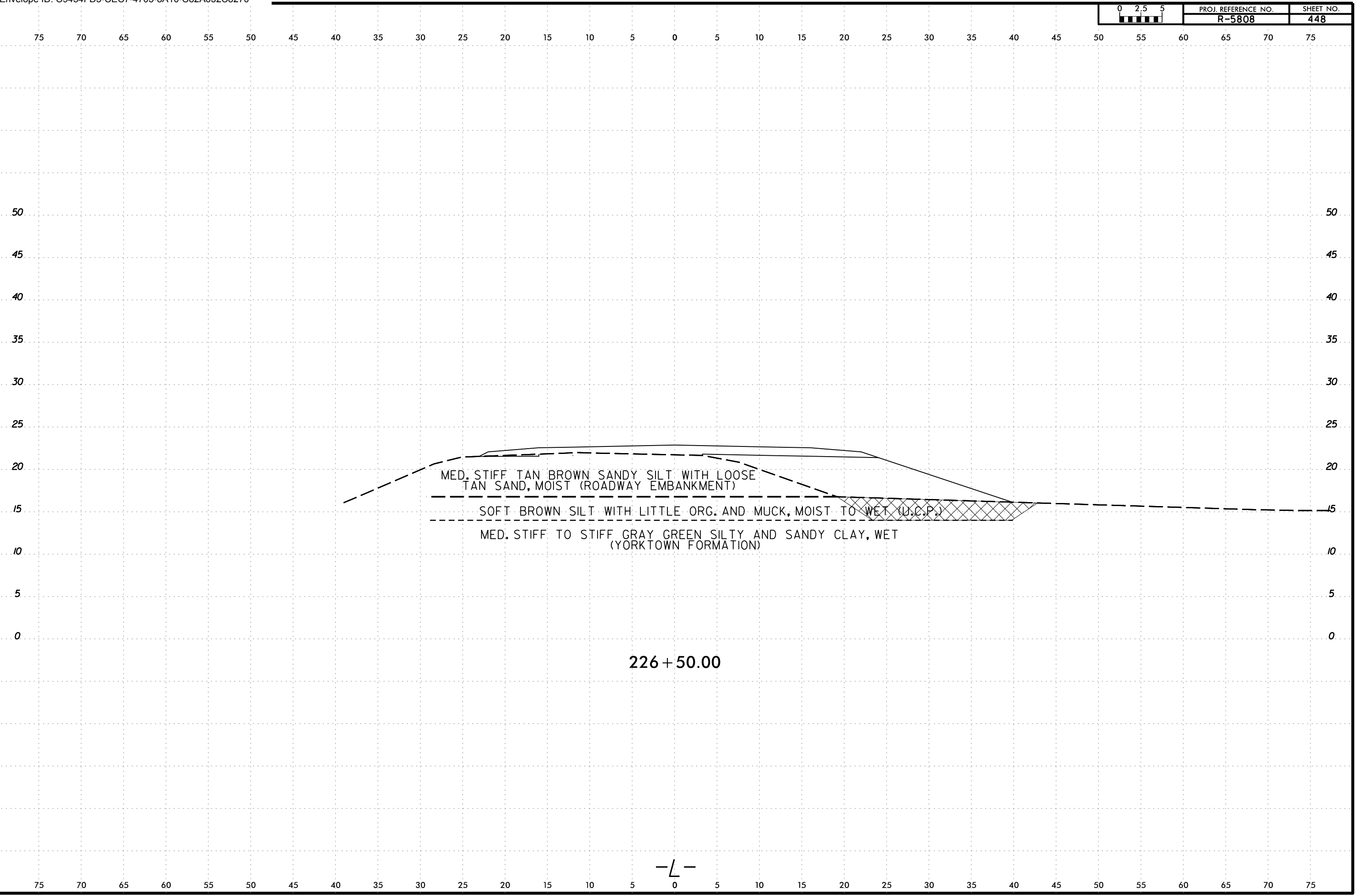
225 + 50.00



6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone

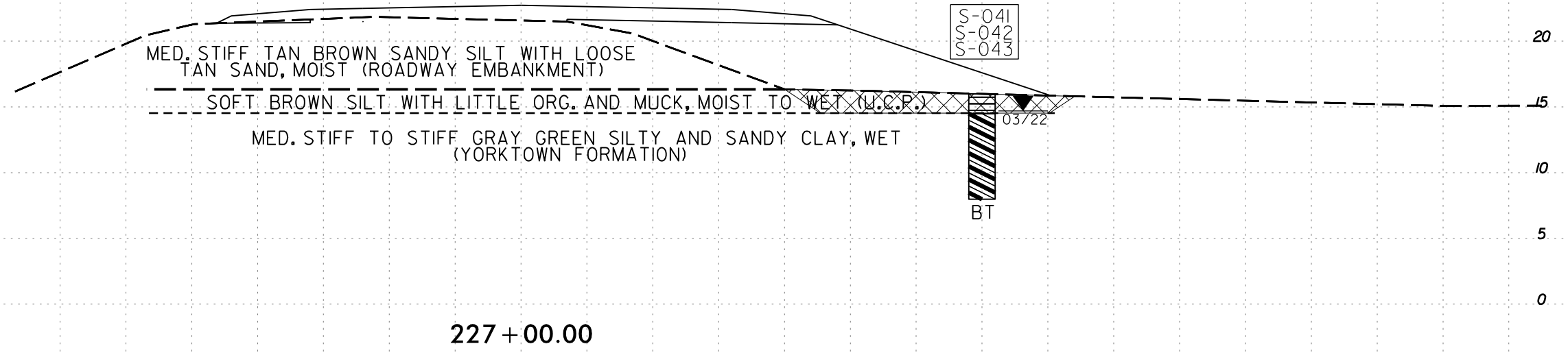


6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\RDWY\CADD\GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone





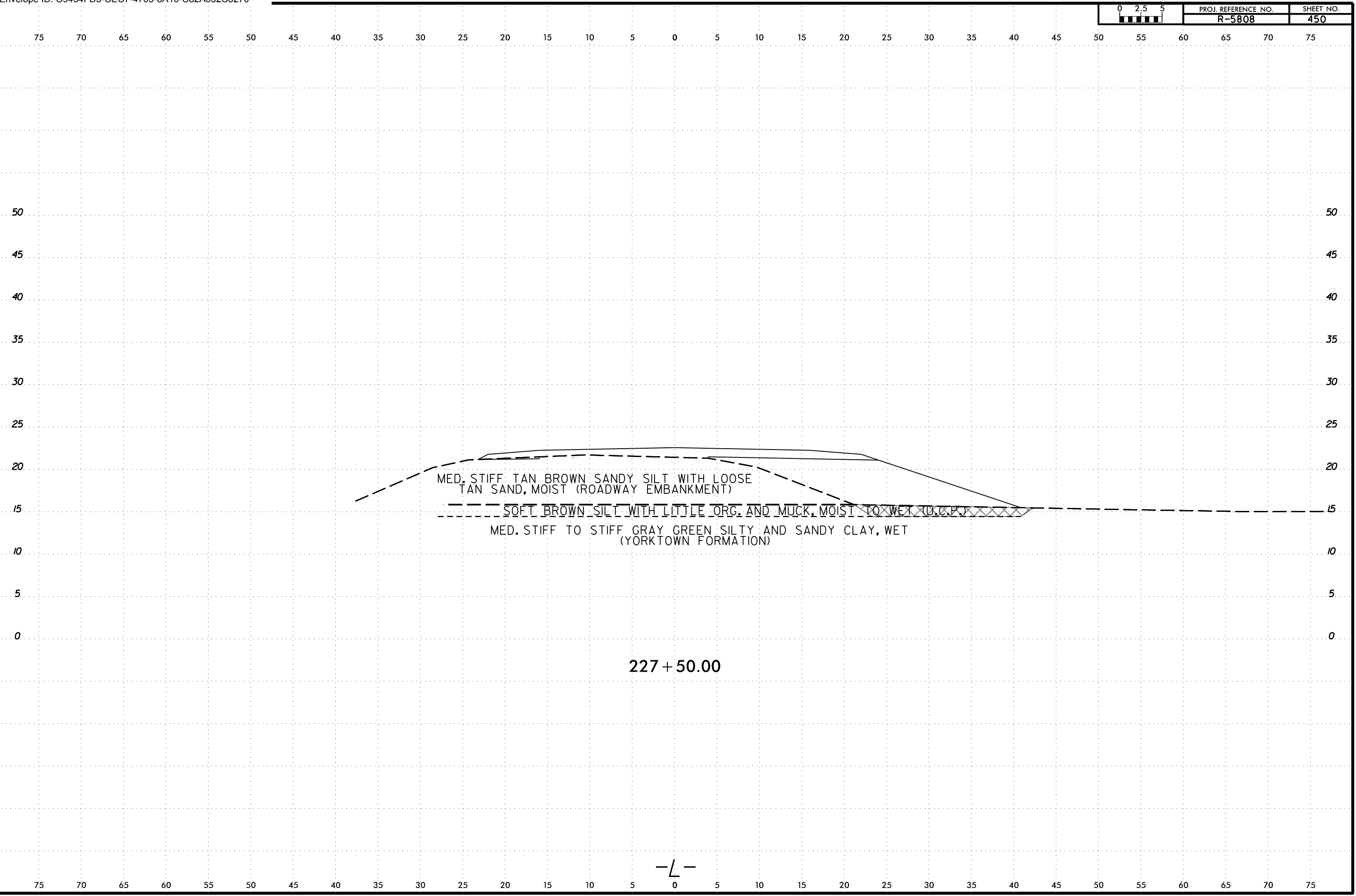
SOIL TEST RESULTS																
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200			
S-041	35 ft RT	227+00	0.0 - 1.5	A-5(10)	48	6	1.8	15.4	81.2	1.6	98.8	99	91	103	18.6	
S-042	35 ft RT	227+00	1.5 - 6.0	A-6(12)	32	14	0.7	17.0	49.9	32.4	100	100	93	32	-	
S-043	35 ft RT	227+00	6.0 - 8.0	A-6(13)	31	14	0.7	12.9	56.3	30.2	99.9	100	96	-	-	



2-MAY-2024 16:55  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
 jstone AT CAT-STONE-18

6/23/16

6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

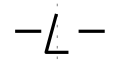


MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

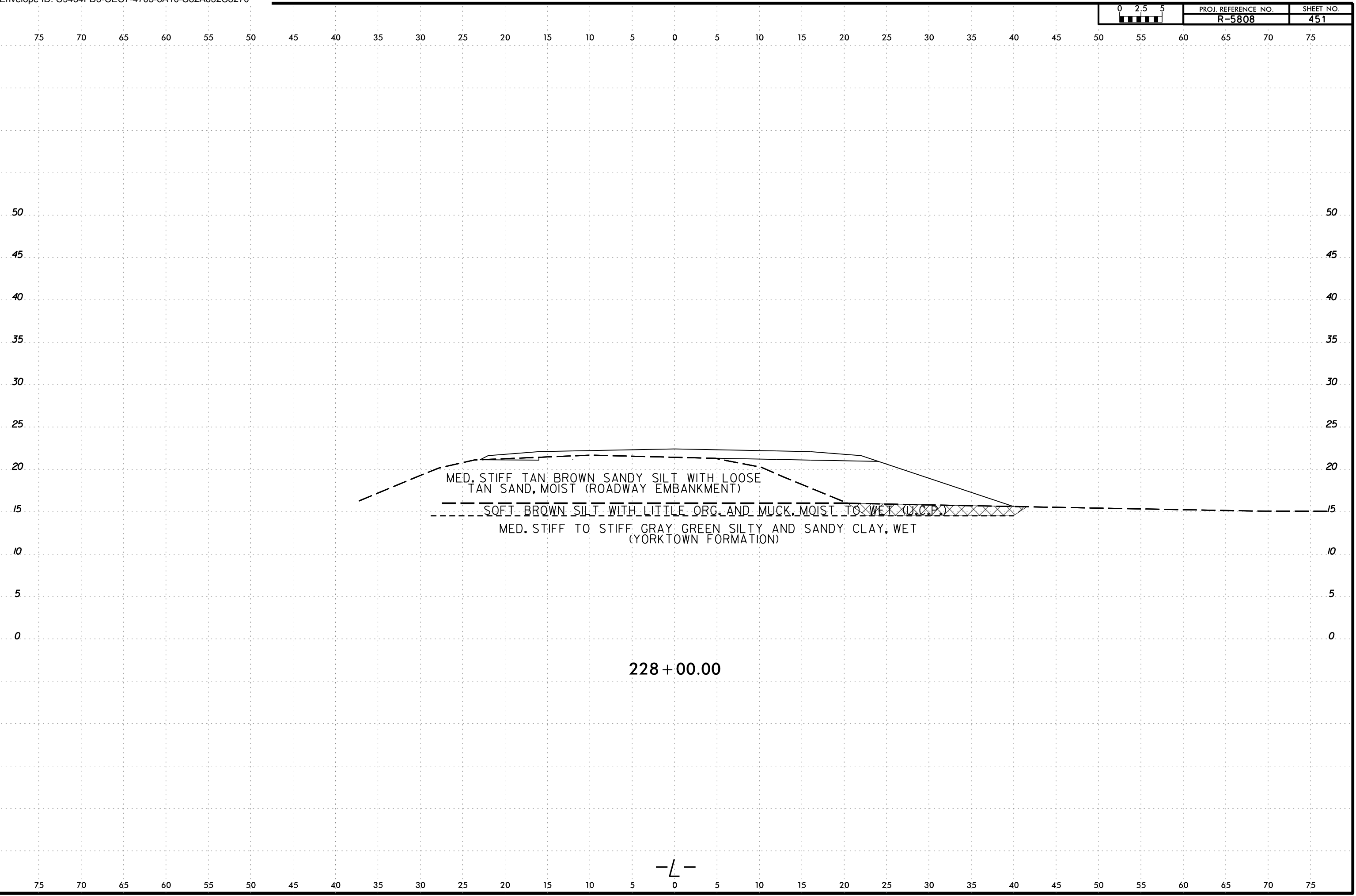
SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (D.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)

227 + 50.00



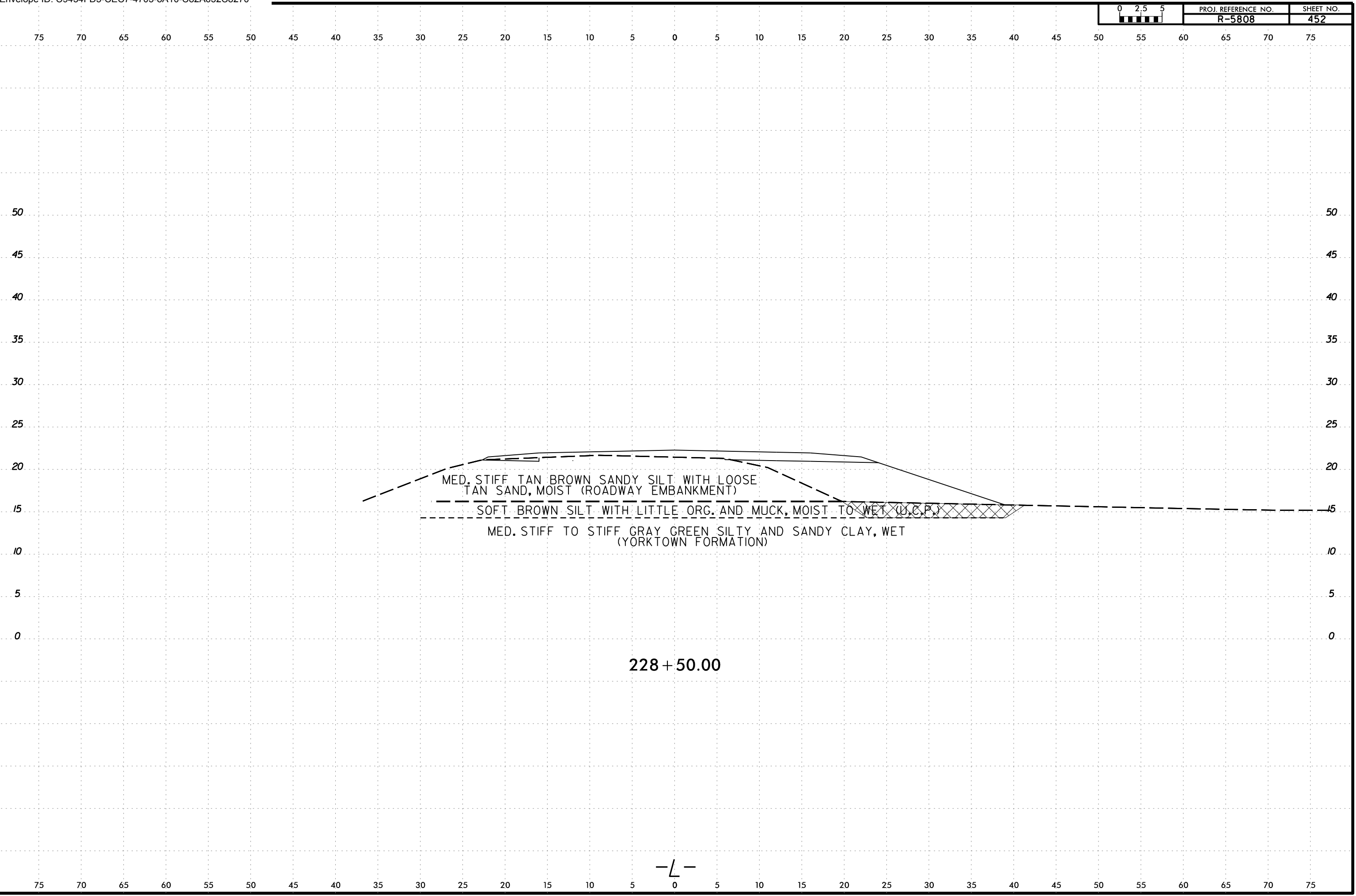
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_GEO\_XSR\_2.dgn  
jstone



228 + 00.00

-L-

6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone

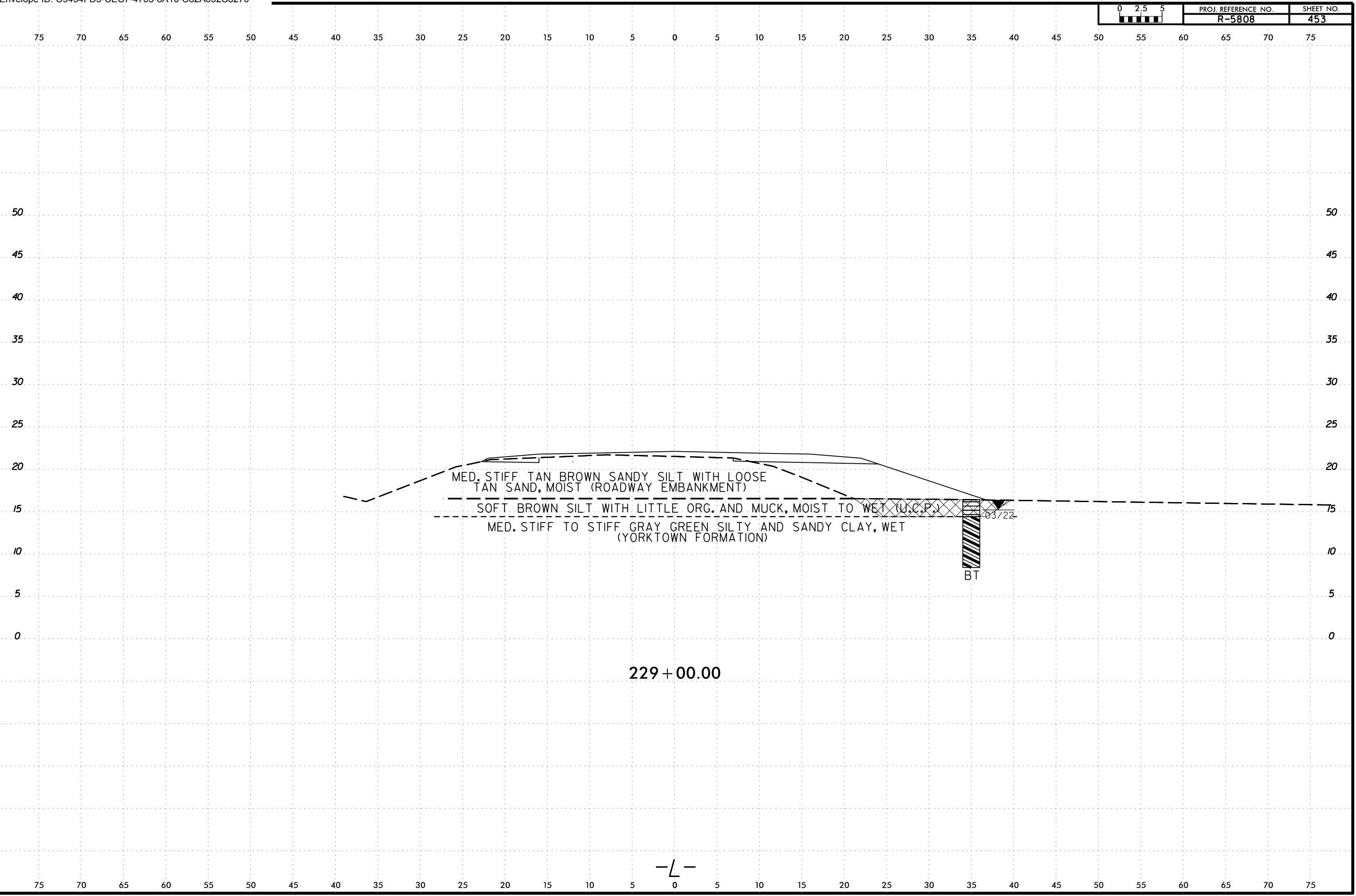


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

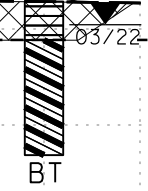
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone



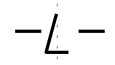
MED. STIFF TAN BROWN SANDY SILT WITH LOOSE  
TAN SAND, MOIST (ROADWAY EMBANKMENT)

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

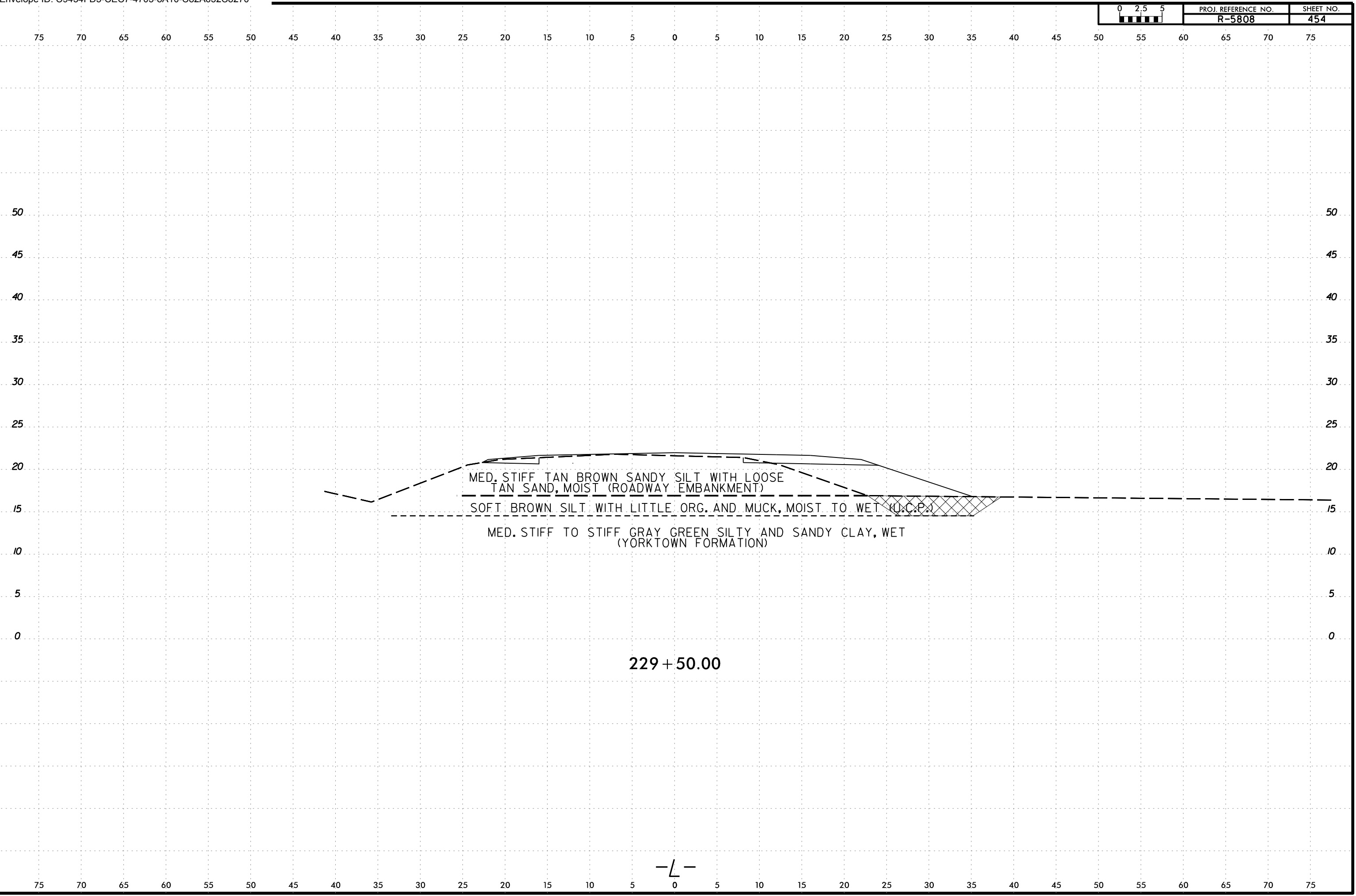
MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)



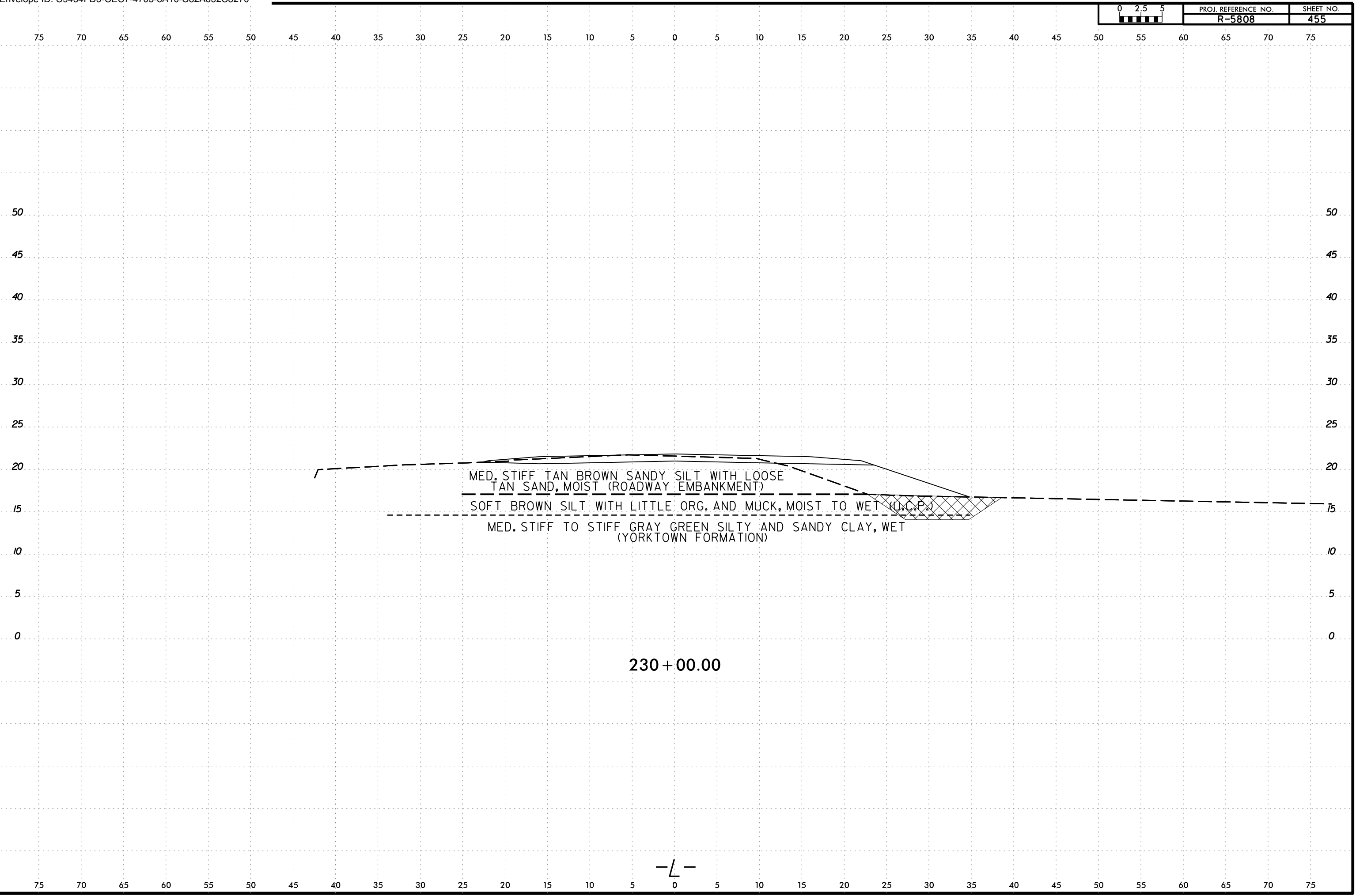
229 + 00.00



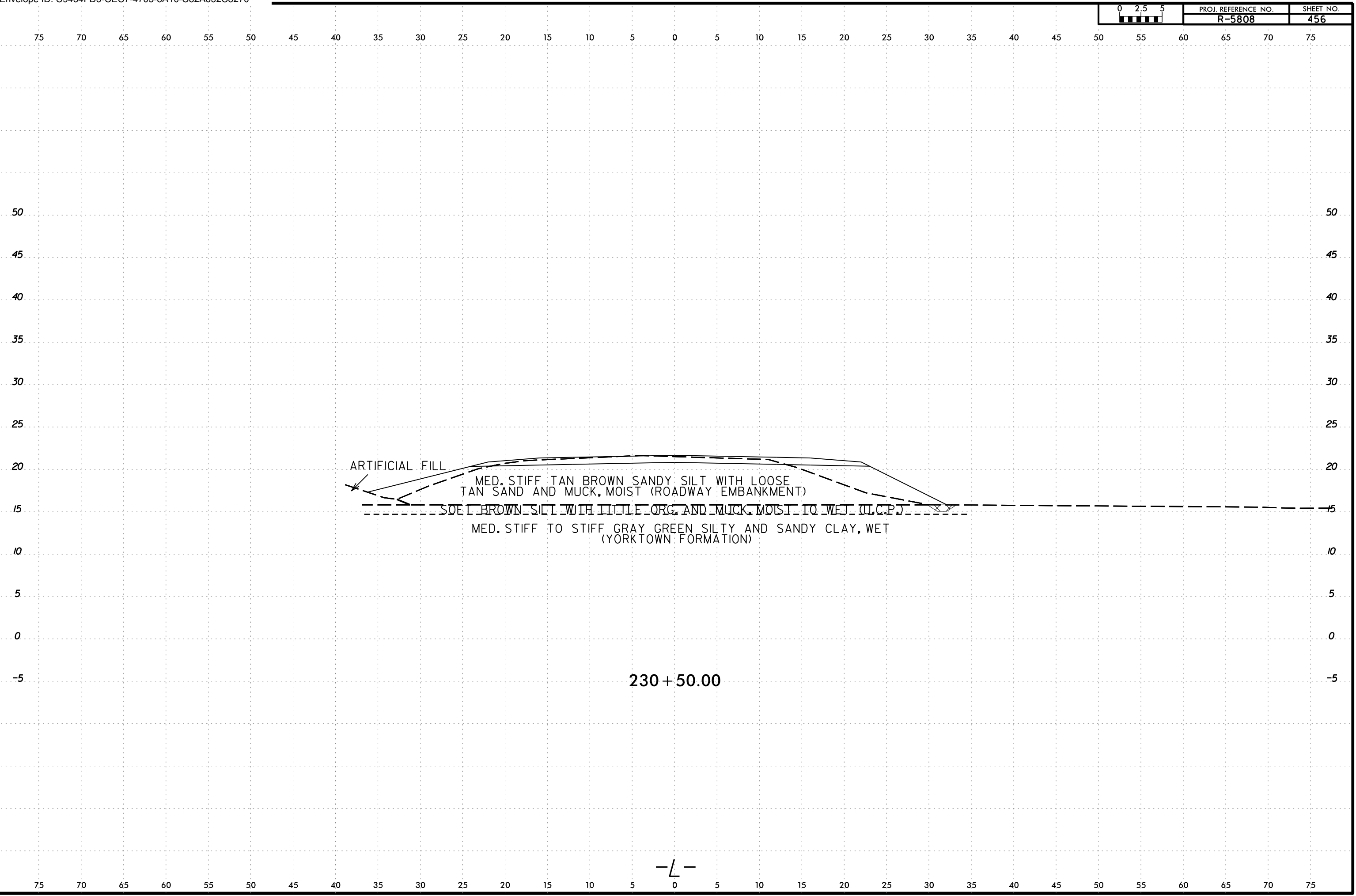
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone



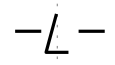
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSC\R5808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\R5808\_GEO\_RDWY\R5808\_GEO\_RDWY\CADD\_GEO\TECH\XSC\R5808\_GEO\_XSR\_2.dgn  
jstone

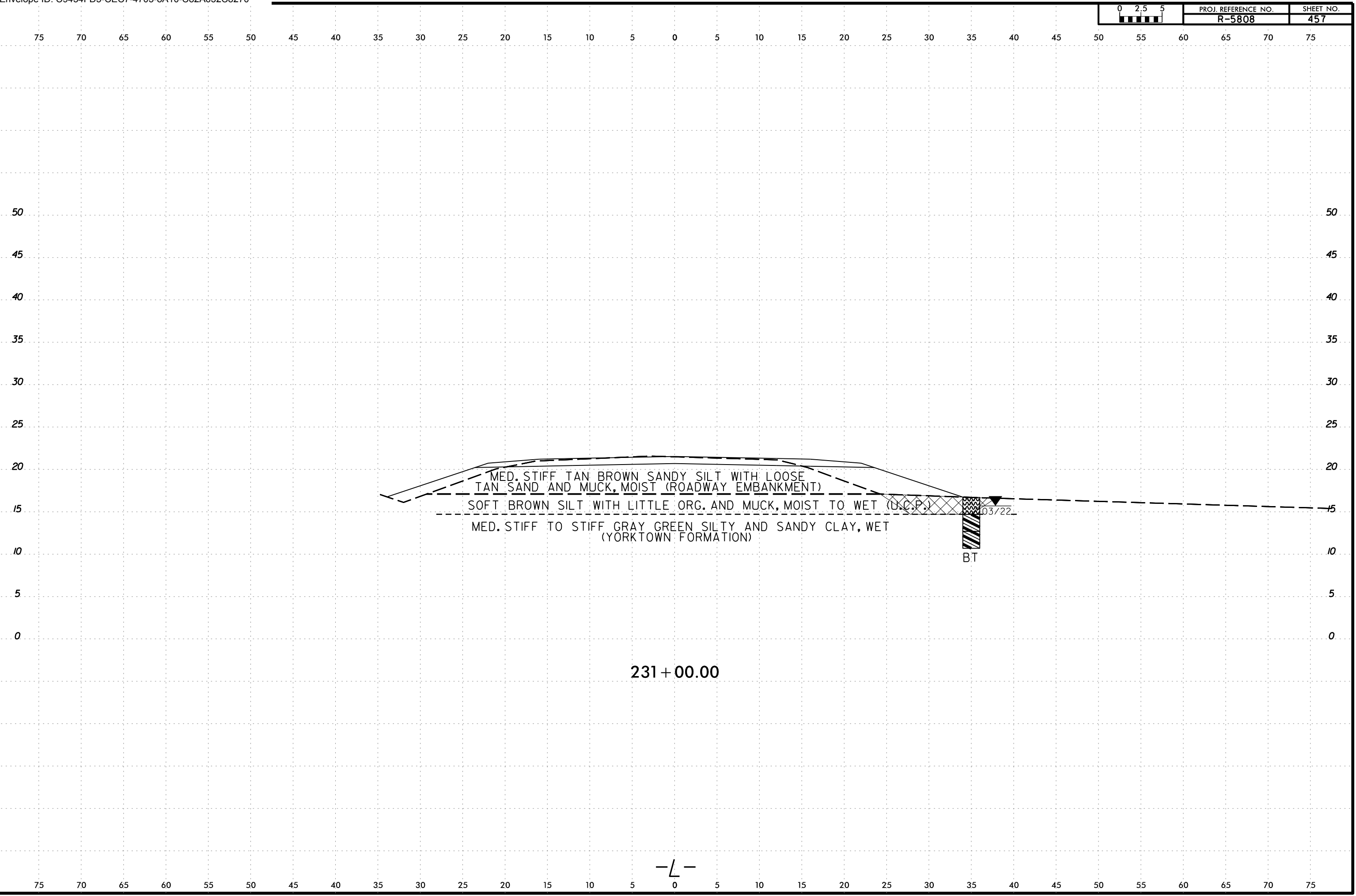


230 + 50.00





6/23/16  
2-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_Geo\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



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

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

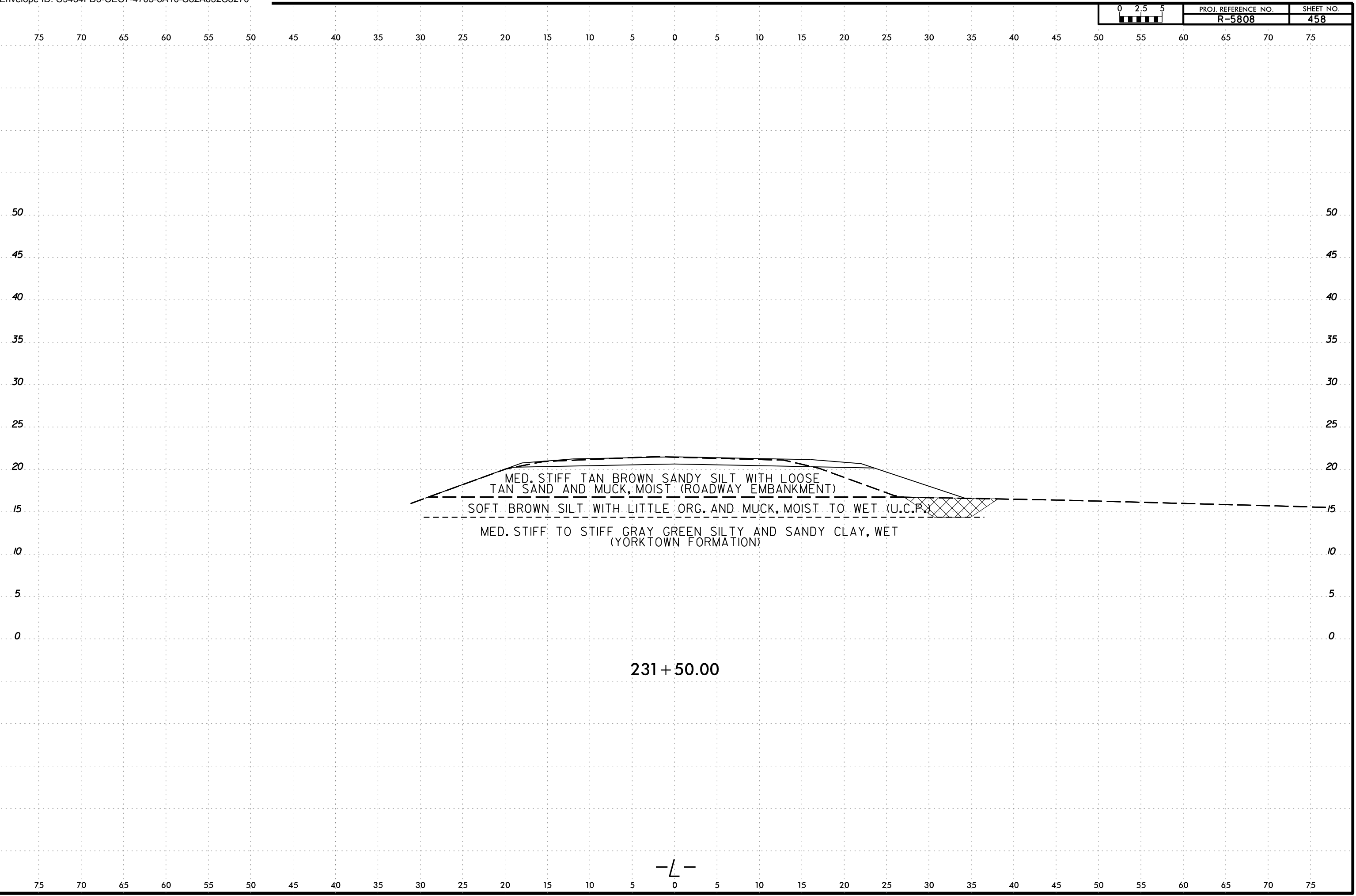
MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
 (YORKTOWN FORMATION)

103/22  
 BT

231 + 00.00

—L—

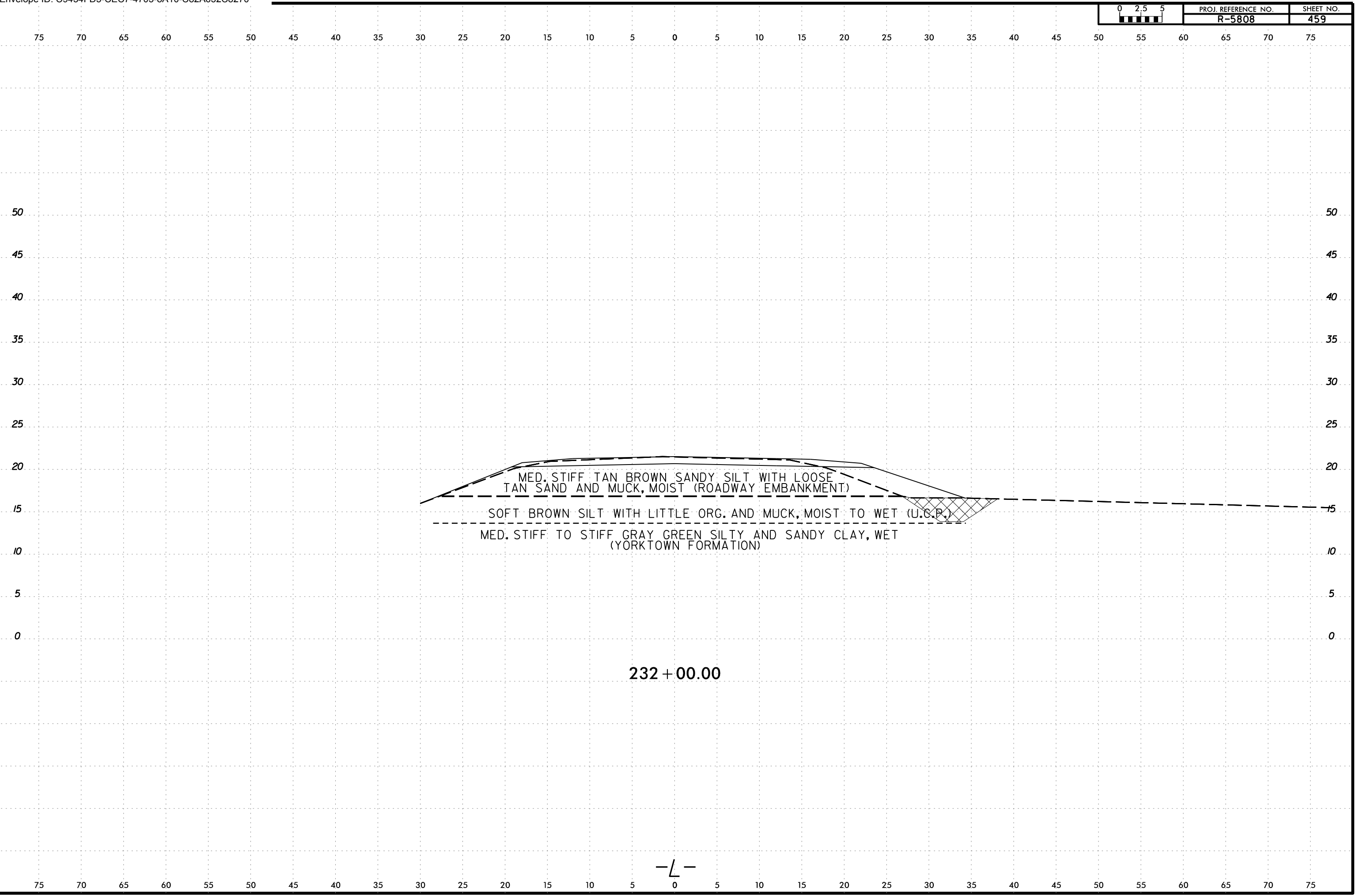
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808L\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



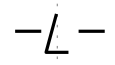
231 + 50.00

-L-

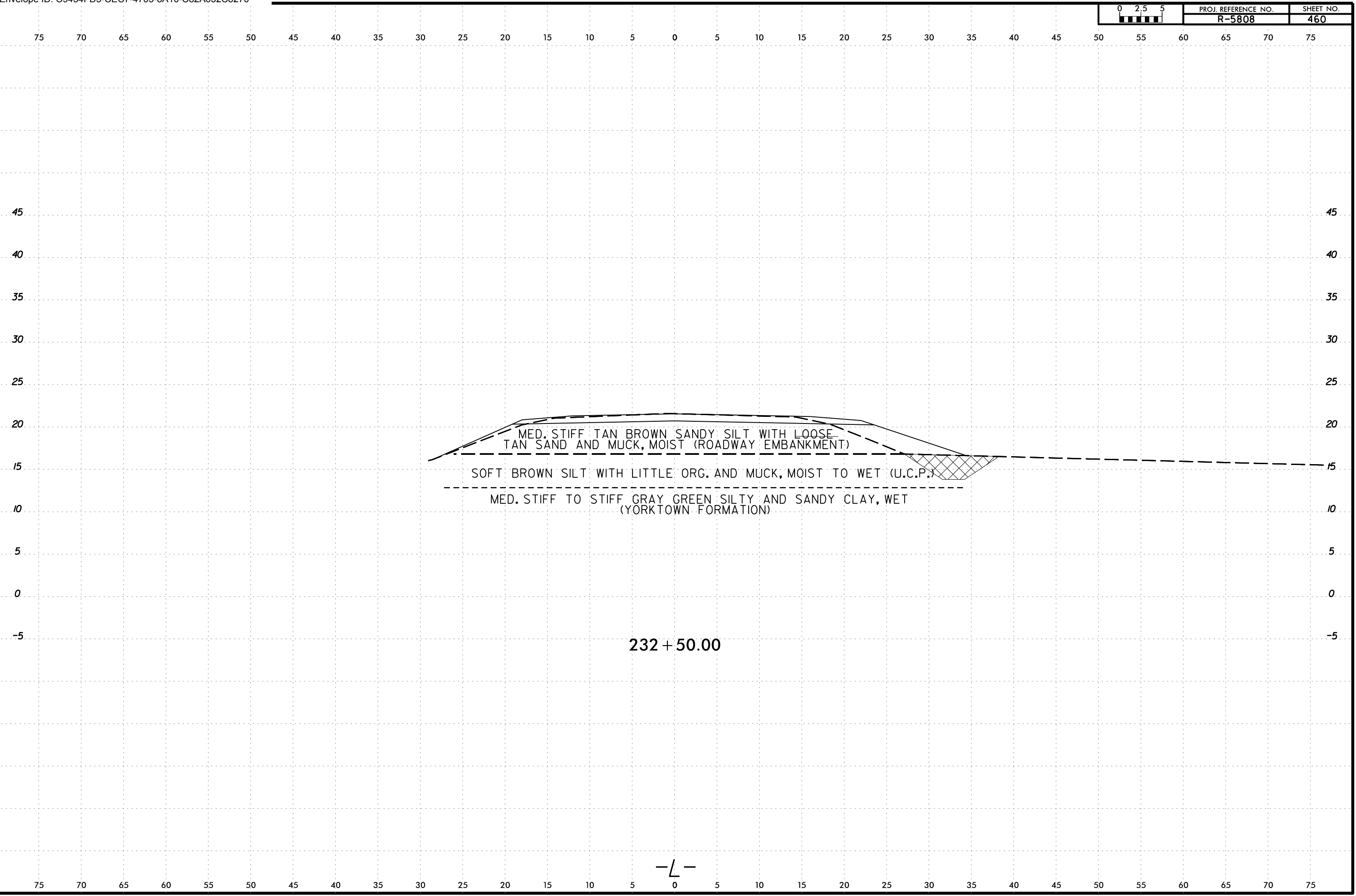
6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\XSC\RS808\_GEO\_XSR\_2.dgn  
jstone  
AT CAT-1 STONE-18



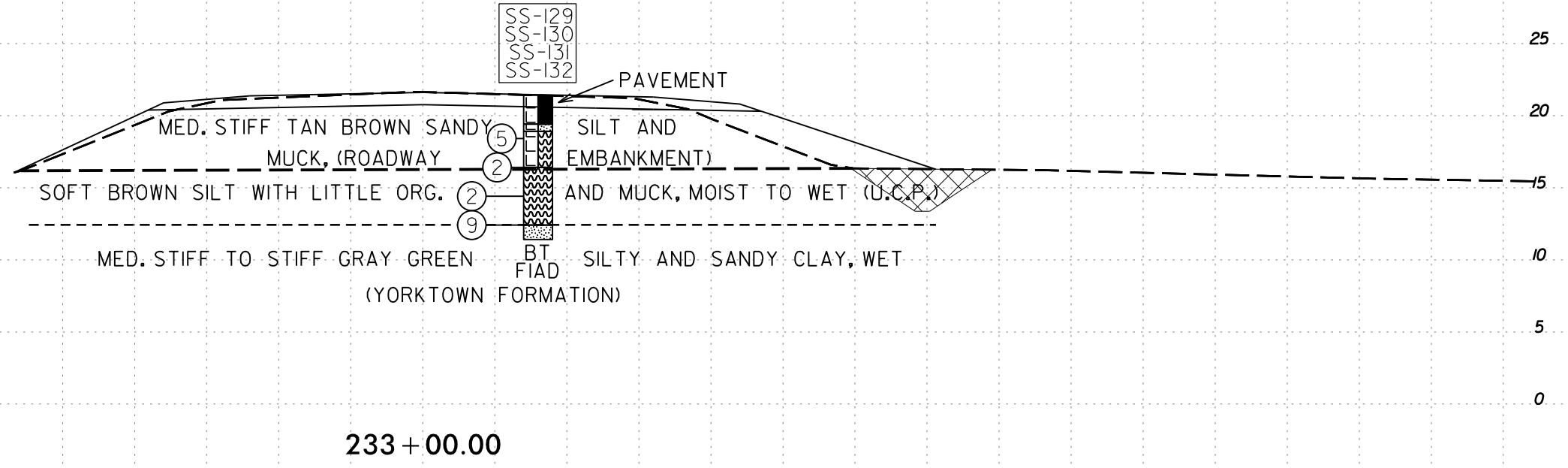
232 + 00.00



6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\R5808\_GEO\RDWY\R5808\_GEO\RDWY\CADD\_GEO\TECH\XSEC\R5808L\_Geo\_XSR\_2.dgn  
jstone

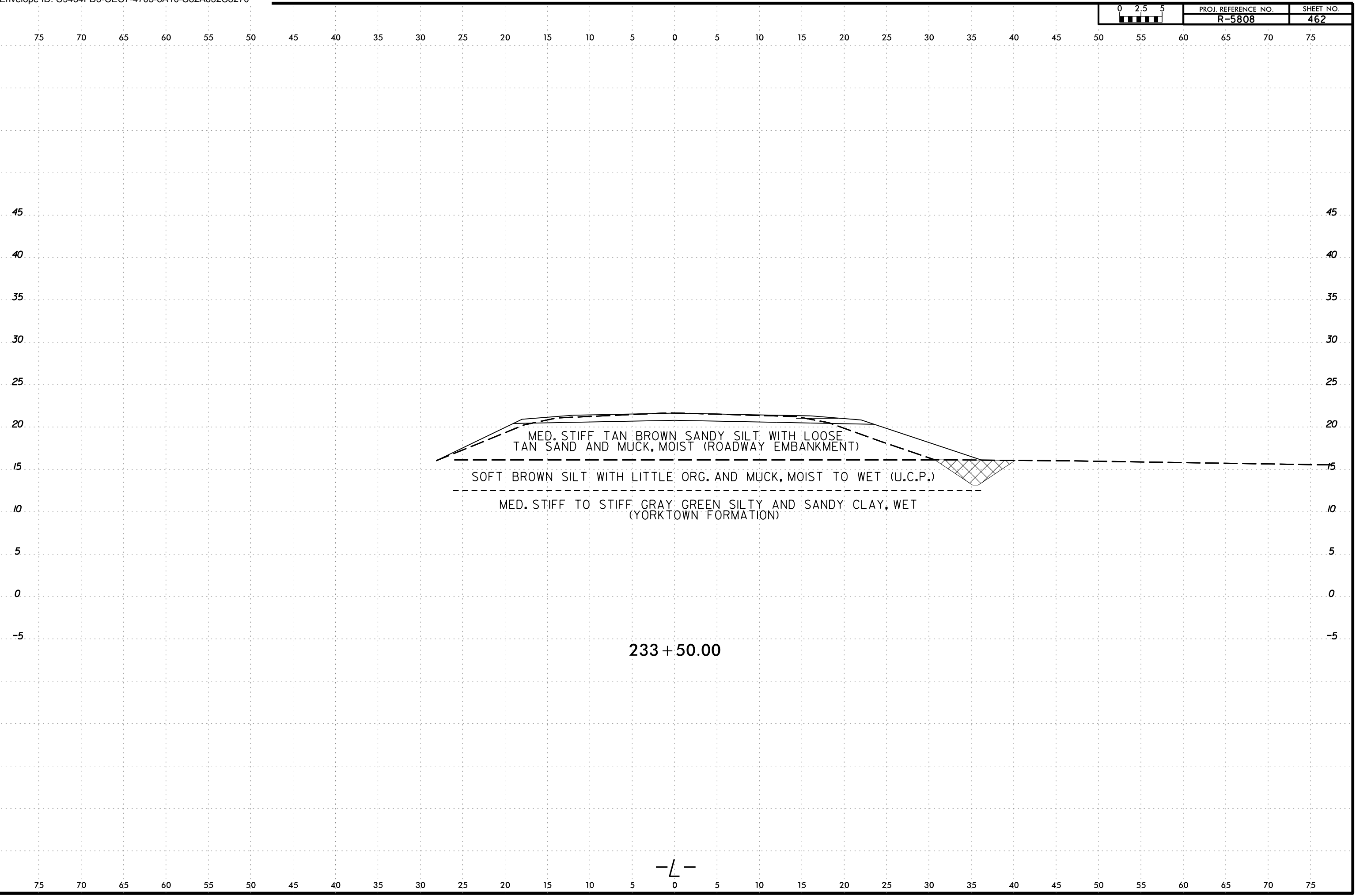


SOIL TEST RESULTS																
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200			
SS-129	35 ft RT	233+00	2.5 - 4.0	A-4(1)	23	3	1.4	16.4	62.7	19.5	100	100	89	-	-	
SS-130	35 ft RT	233+00	4.0 - 6.0	-	NEM	-	-	-	-	NEM	NEM	NEM	-	21.5		
SS-131	35 ft RT	233+00	6.0 - 8.0	A-4(1)	27	2	1.9	20.7	61.0	16.4	99.1	99	88	-	-	
SS-132	35 ft RT	233+00	9.0 - 10.0	A-4(1)	21	4	0.2	20.0	59.3	20.5	99.9	100	91	-	-	

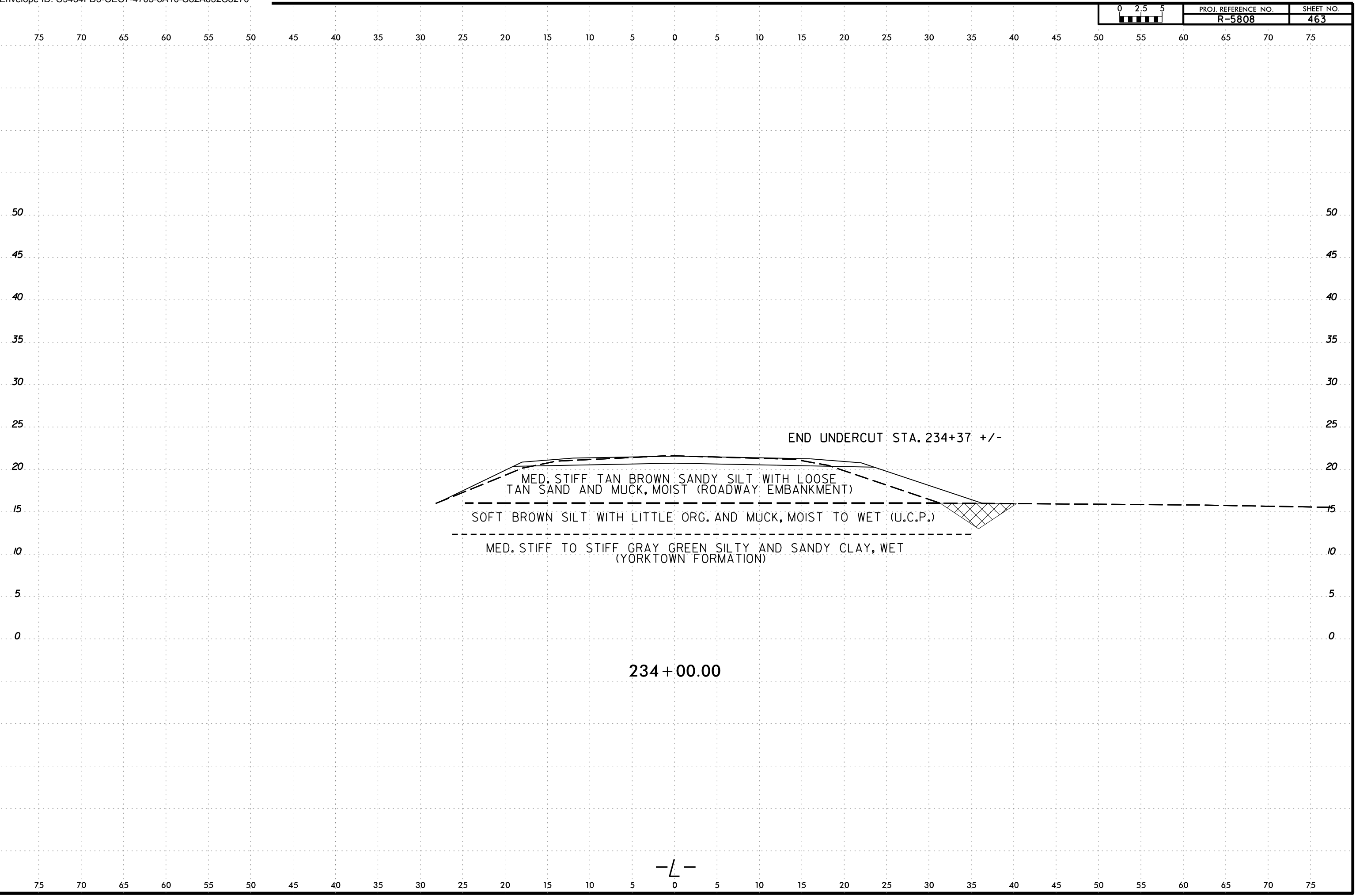


21-MAY-2024 16:55  
 C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\NCDDT\RS808\_GEO\RDWY\RS808\_GEO\RDWY\CADD\_GEO\TECH\SSC\RS808\_GEO\_XSR\_2.dgn  
 jstone

6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



6/23/16  
21-MAY-2024 16:55  
C:\Users\jstone\OneDrive - Cotlin Engineers & Scientists\Projects\Projects\NCDDT\RS808\_GEO\_RDWY\RS808\_GEO\_RDWY\CADD\_GEO\TECH\XSEC\RS808L\_Geo\_XSR\_2.dgn  
jstone



END UNDERCUT STA. 234+37 +/-

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

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

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET  
(YORKTOWN FORMATION)

234 + 00.00

-L-