

REFERENCE: U-4758

PROJECT: 40251

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

CROSS SECTIONS

LINE	STATION	SHEETS
-L-	19+00 - 28+00	4-9
-L-	114+50 - 122+00	10-15
-L-	134+50 - 136+00	16-17
-L-	137+50 - 141+00	18-20
-L-	144+00 - 148+00	21-23
-L-	184+00 - 191+00	24-27
-L-	195+50 - 202+00	28-31
-L-	220+00 - 225+00	32-35
-L-	234+00 - 237+50	36-38
-L-	242+50 - 244+50	39-40
-Y5-	14+50 - 17+50	41-42
-Y8-	10+50 - 12+50	43-44
-Y12-	13+00 - 15+50	45-46
-Y13-	10+50 - 16+00	47-49
-Y15-	12+00 - 14+50	50-51
-Y17-	10+00 - 15+00	52-55
-Y29-	26+50 - 29+00	56-57

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

ROADWAY
SUBSURFACE INVESTIGATION

COUNTY GUILFORD
PROJECT DESCRIPTION IMPROVE SR 1818 (JOHNSON STREET) /SR 1850 (SANDY RIDGE ROAD) FROM SR 1820 (SKEET CLUB ROAD) TO I-40

RECOMMENDATIONS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4758	1	57

CAUTION NOTICE

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

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

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

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

PERSONNEL

A. BHUIYAN

H. CAMP

J. MARLOW

R. NORWOOD

INVESTIGATED BY S&ME, INC.

DRAWN BY J. SWARTLEY

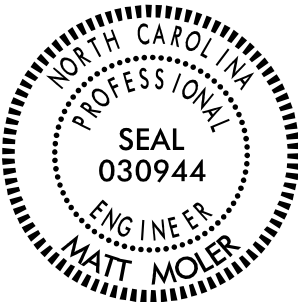
CHECKED BY M. MOLER

SUBMITTED BY S. LANEY

DATE OCTOBER 2021



9751 SOUTHERN PINE BLVD
CHARLOTTE, NC 28273
(704) 523-4726



DocuSigned by:

Matt Moler

6/27/2022

5E0813C84E37402...

SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: U-4758

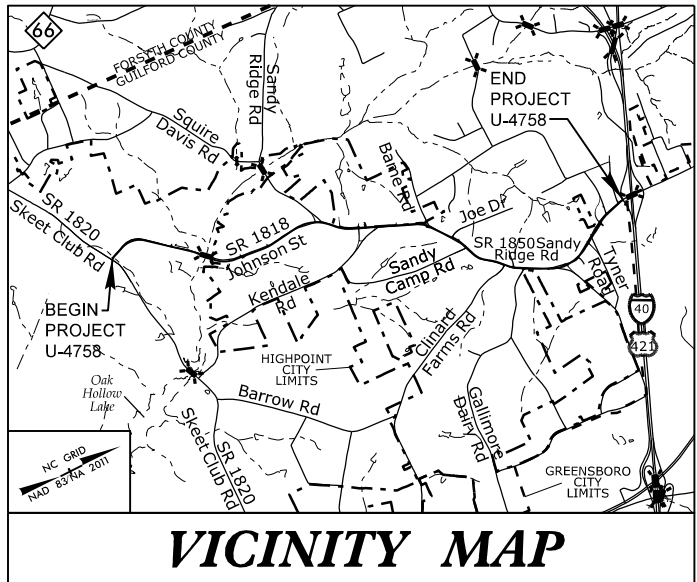
CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

LOCATION: SR 1818 (JOHNSON STREET) /SR 1850 (SANDY RIDGE ROAD) FROM
SR 1820 (SKEET CLUB ROAD) TO I-40

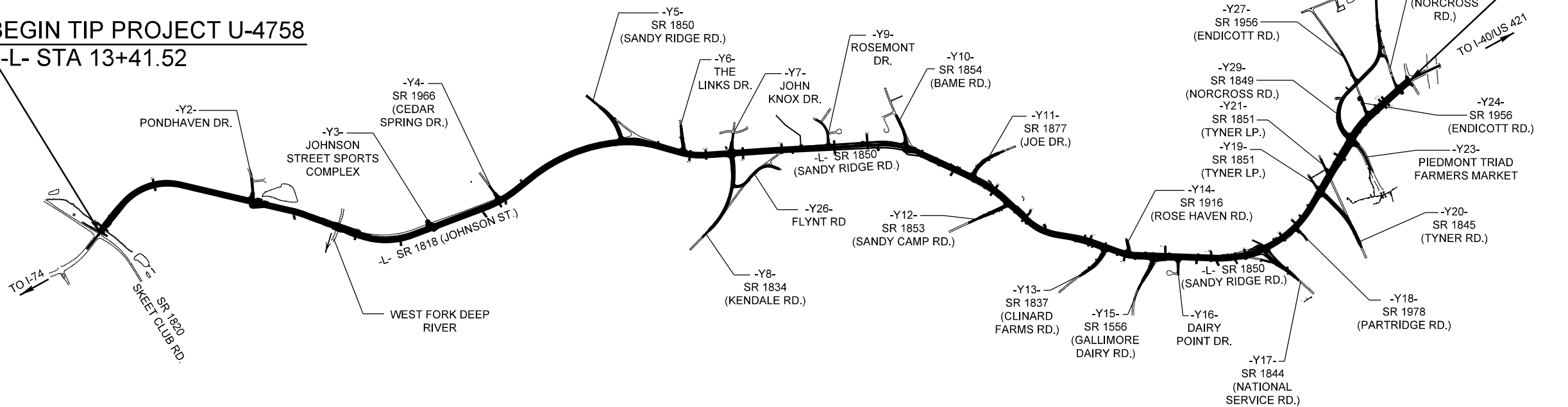
TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, RESURFACING, SIGNALS,
AND STRUCTURE



VICINITY MAP

BEGIN TIP PROJECT U-4758
-L- STA 13+41.52

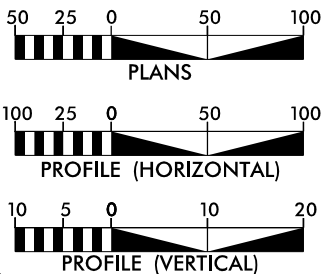
END TIP PROJECT U-4758
-L- STA 246+71.60



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF HIGH POINT.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ____.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 21,780
ADT 2040 = 36,400
K = 11 %
D = 60 %
T = 9 %*
V = 50 MPH
*TTST = 4% DUAL = 5%
FUNC CLASS =
URBAN ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4758 = 4.394 MILES
LENGTH STRUCTURES TIP PROJECT U-4758 = 0.025 MILES
TOTAL LENGTH TIP PROJECT U-4758 = 4.419 MILES

NCDOT CONTACT: LAURA SUTTON, P.E

Prepared In the Office of:
ATKINS
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 27, 2019

LETTING DATE:
SEPTEMBER 21, 2021

CLINTON J. MORGAN, P.E.
PROJECT ENGINEER

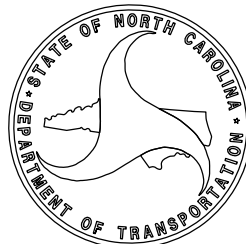
BRYAN S. LAMBETH, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

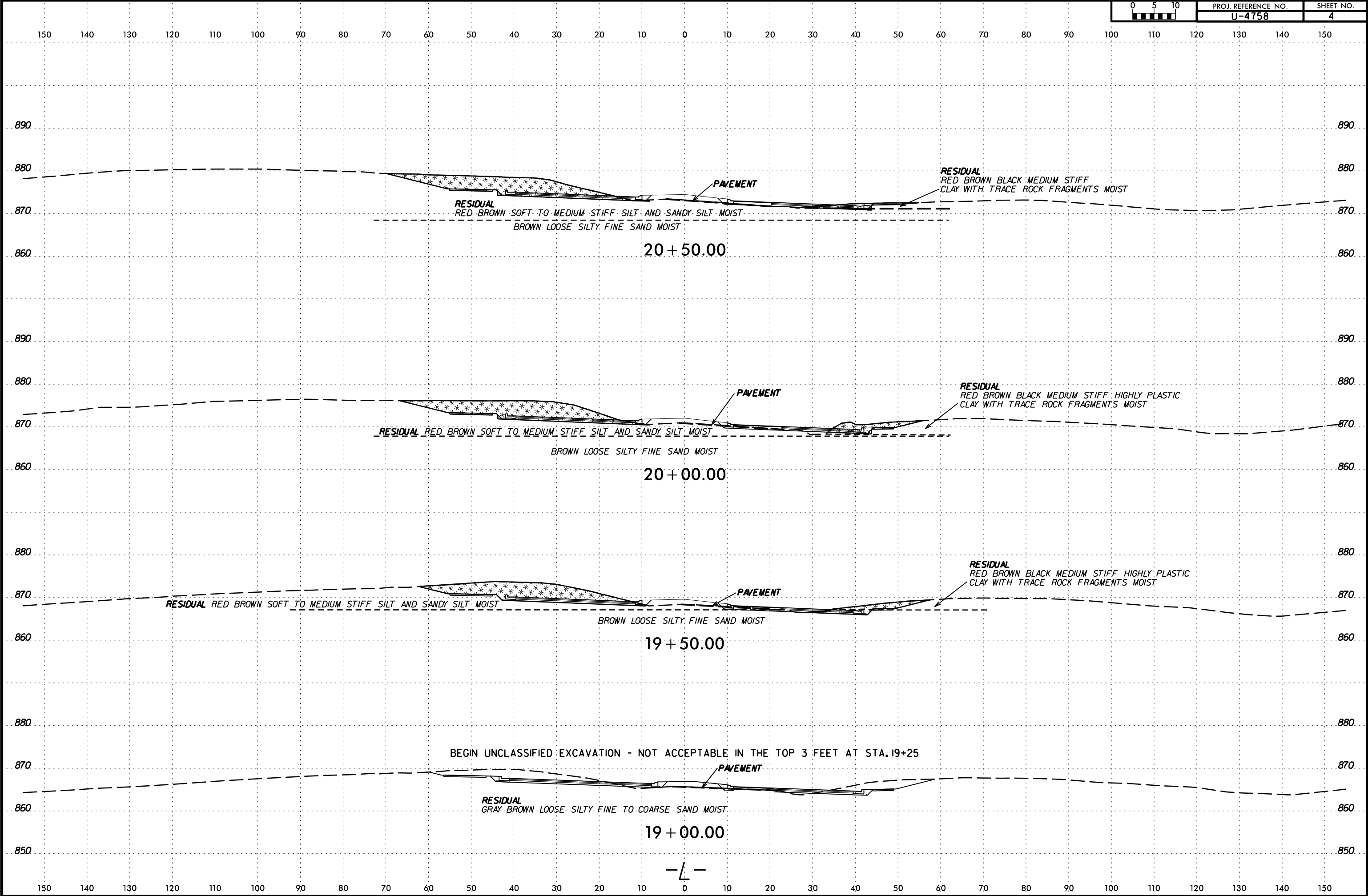
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	4

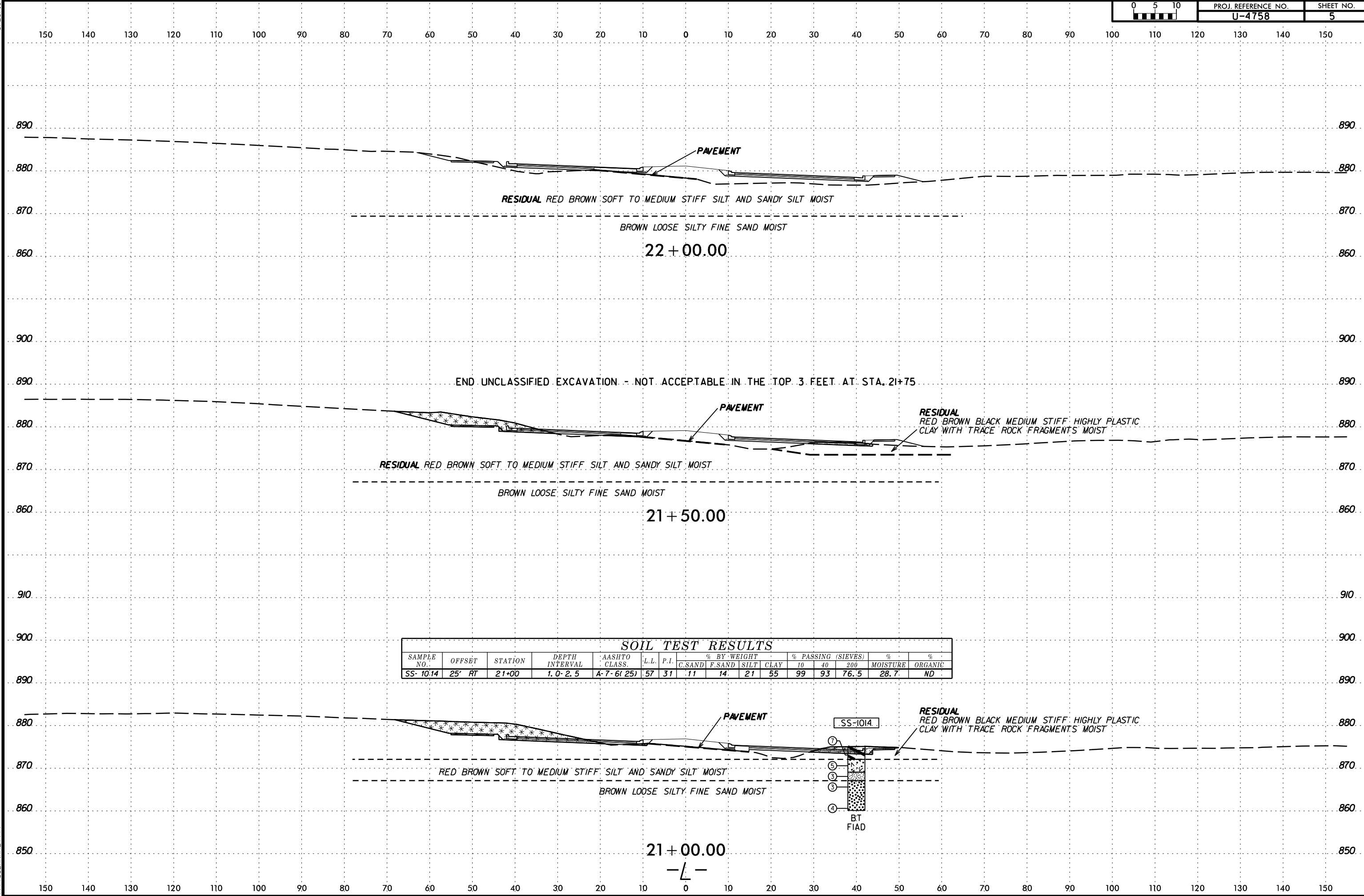


6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
5



SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE
							C.SAND	F.SAND	SILT	CLAY	10	40	200	
SS-1014	25' RT	21+00	1.0-2.5	A-7-6(25)	57	31	11	14	21	55	99	93	76.5	28.7
														ND

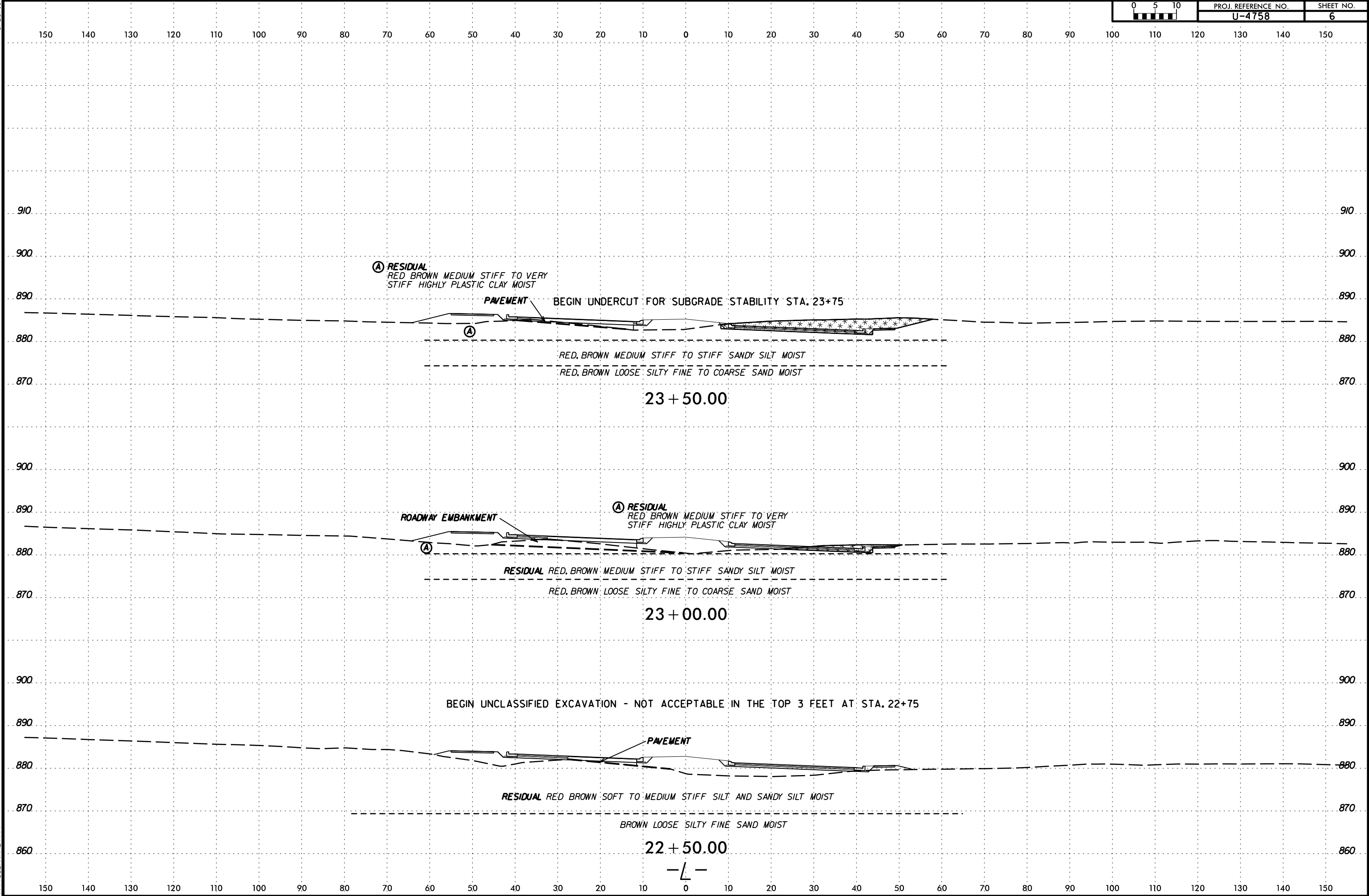
SS-1014
BT FIAD

6/23/16



PROJ. REFERENCE NO.
U-4758

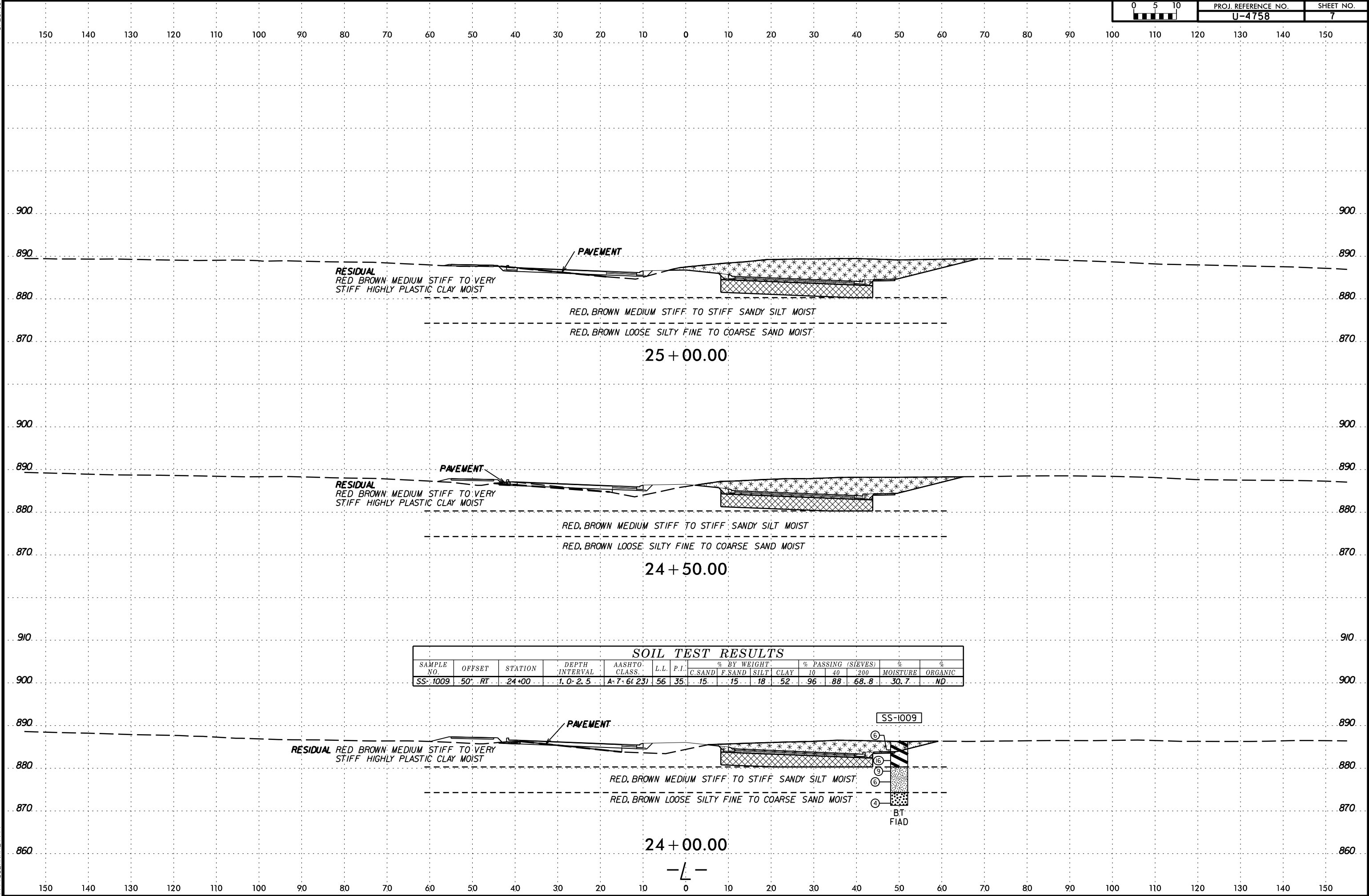
SHEET NO.
6



6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	7



SOIL TEST RESULTS

SAMPLE NO.	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-1009	50' RT	24+00	1.0-2.5	A-7-6(23)	56	35	15	15	18	52	96	88	68.8	30.7	ND

SS-1009

6

6

9

6

4

BT

FIAD

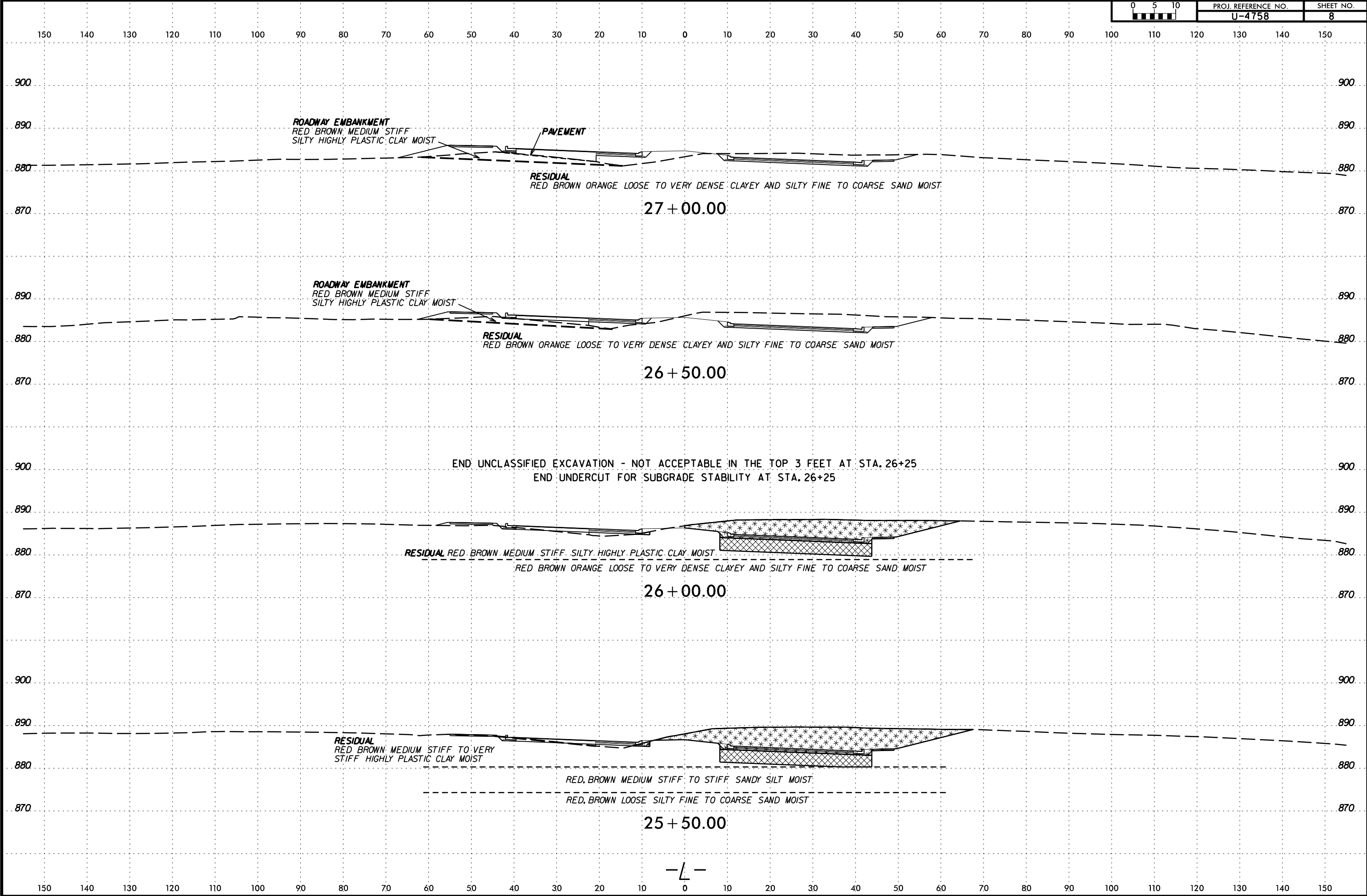
6/23/16

6/23/16



PROJ. REFERENCE NO.
U-4758

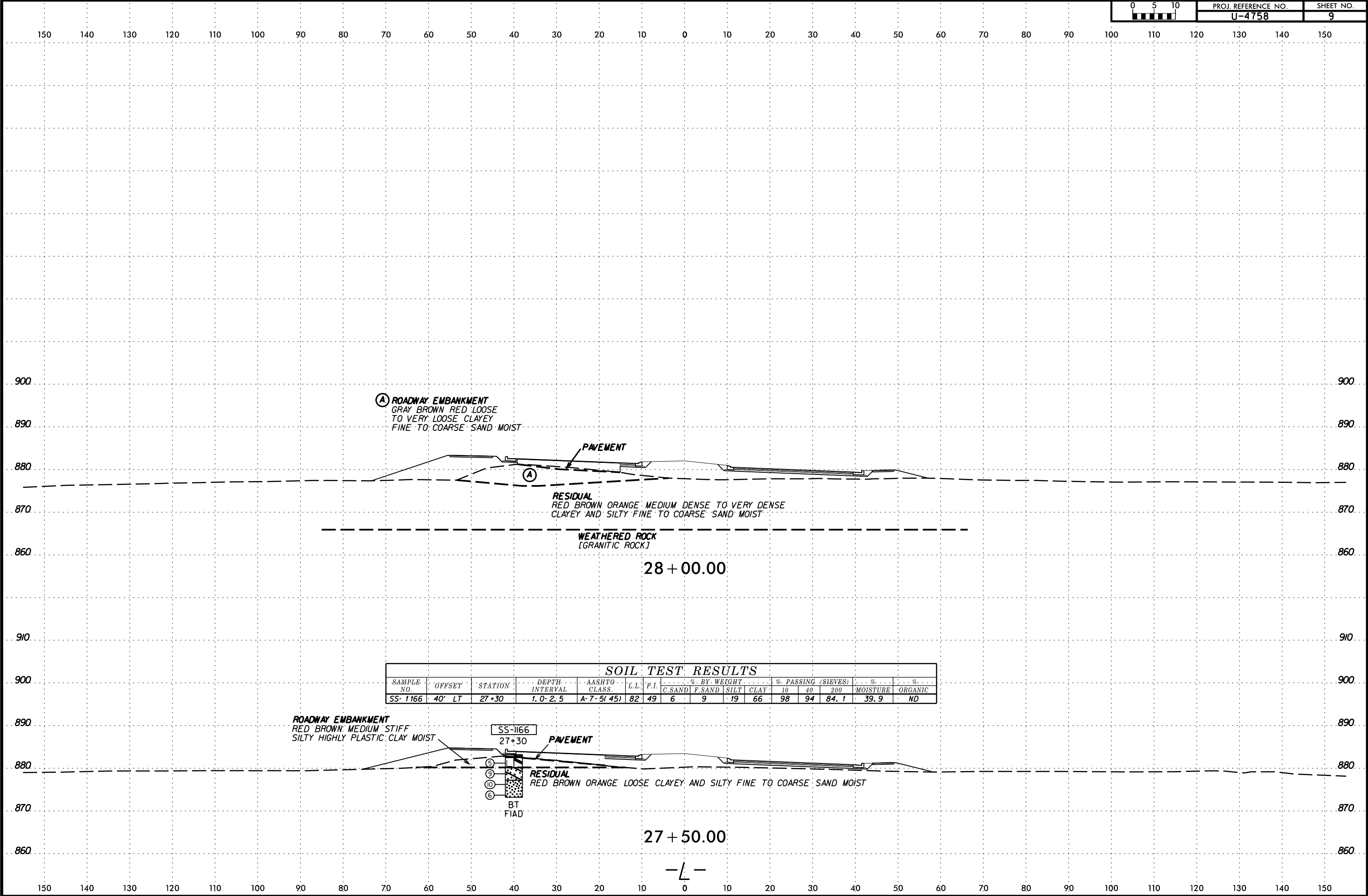
SHEET NO.
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	9



SOIL TEST RESULTS															
SAMPLE NO.	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-1166	40' LT	27+30	1.0-2.5	A-7-5(45)	82	49	6	9	19	66	98	94	84.1	39.9	ND

ROADWAY EMBANKMENT
RED BROWN MEDIUM STIFF
SILTY HIGHLY PLASTIC CLAY MOIST

SS-1166
27+30

PAVEMENT

RESIDUAL
RED BROWN ORANGE LOOSE CLAYEY AND SILTY FINE TO COARSE SAND MOIST

- 5
- 9
- 10
- 6

BT
FIAD

27 + 50.00

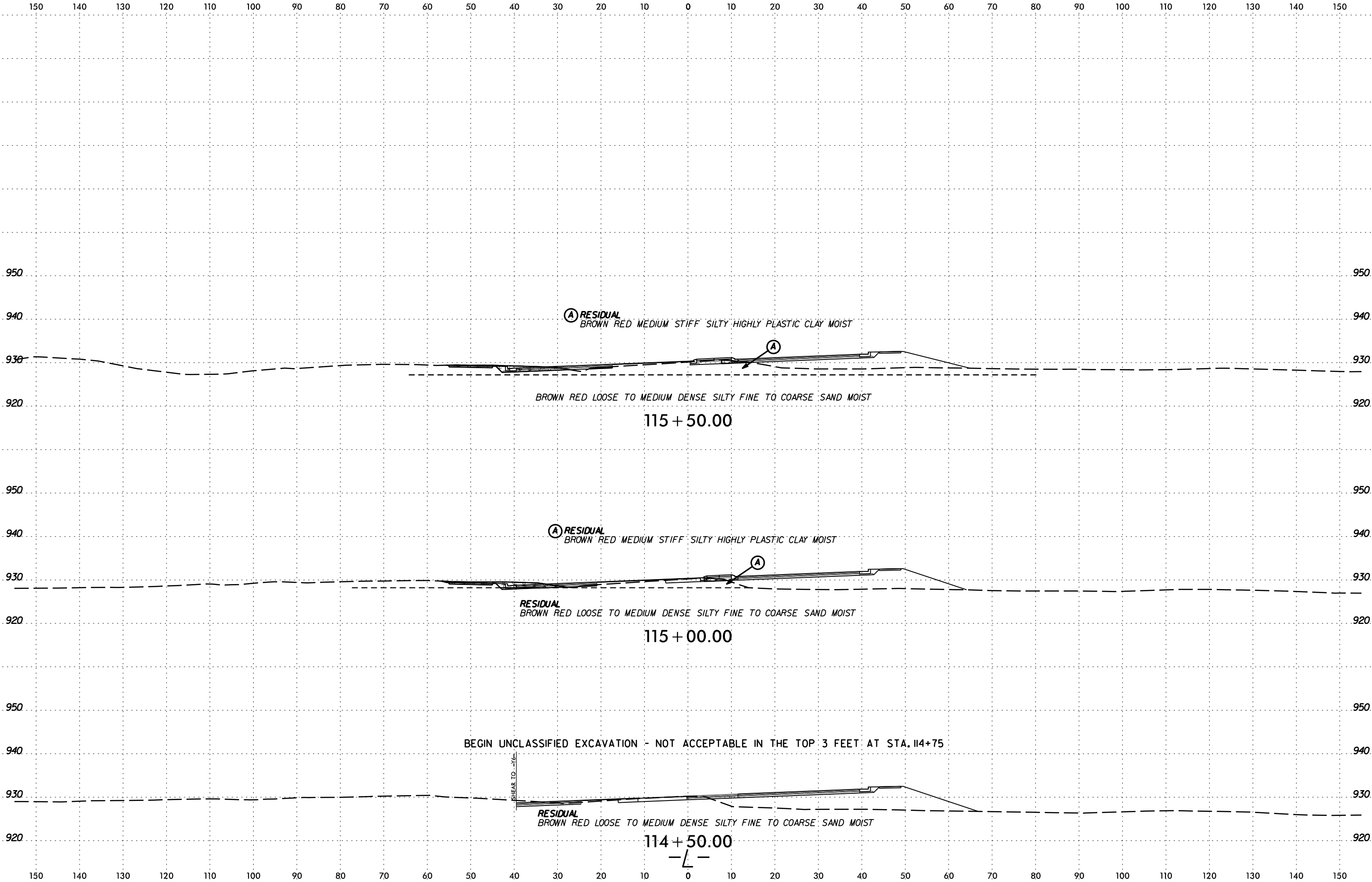
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6/23/16



PROJ. REFERENCE NO.
U-4758

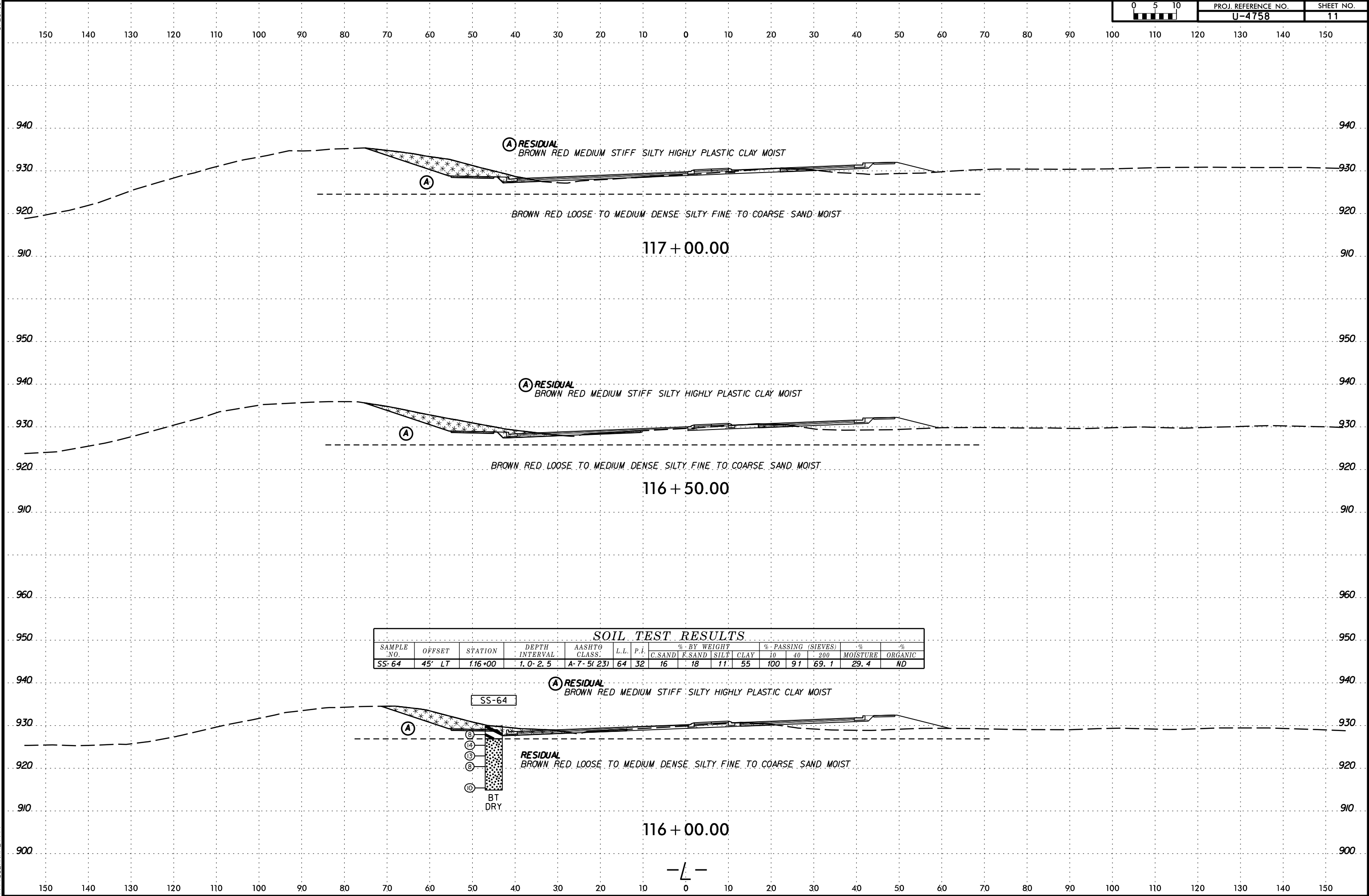
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	11

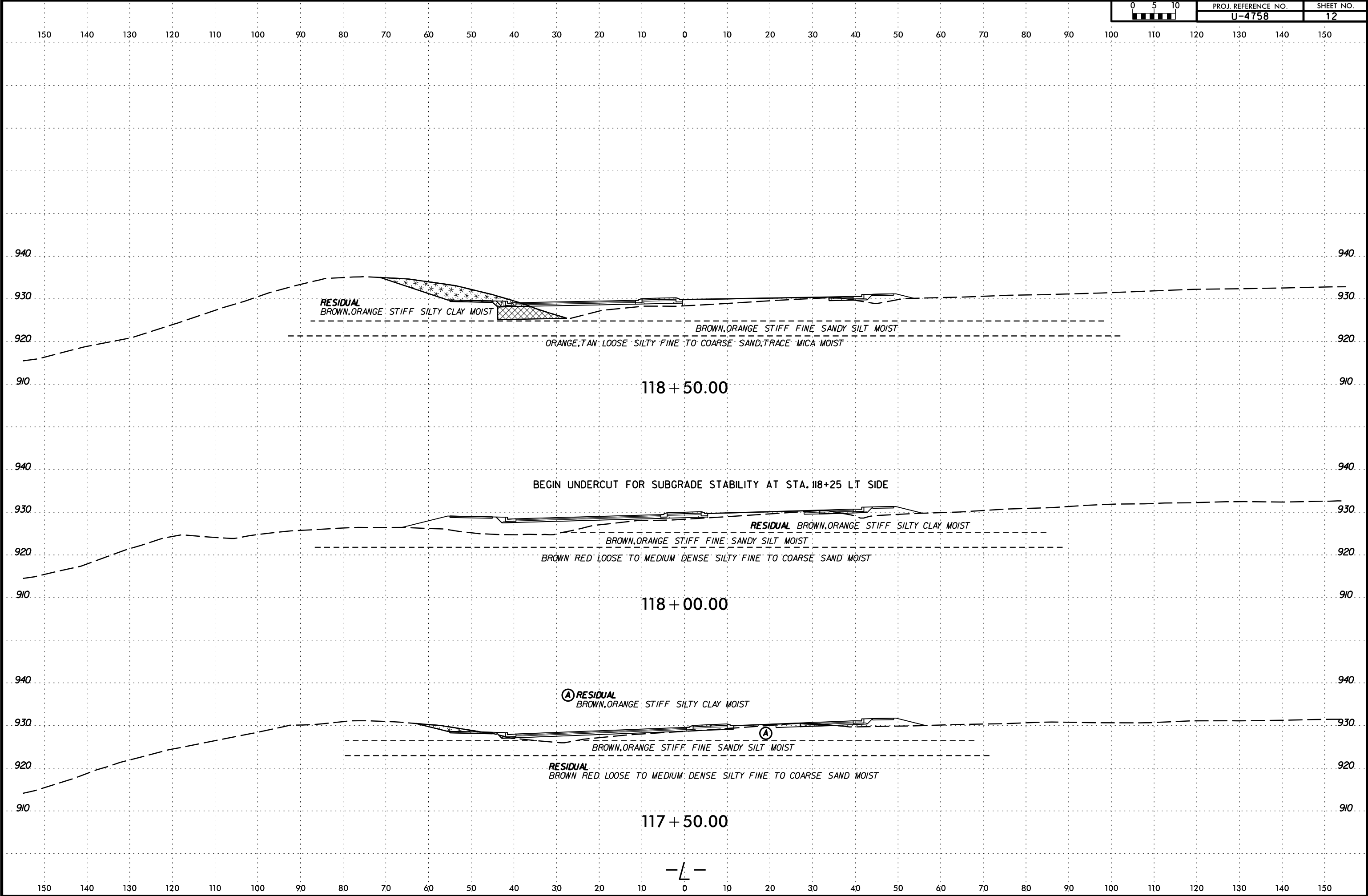


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PROJ. REFERENCE NO.
U-4758

SHEET NO.
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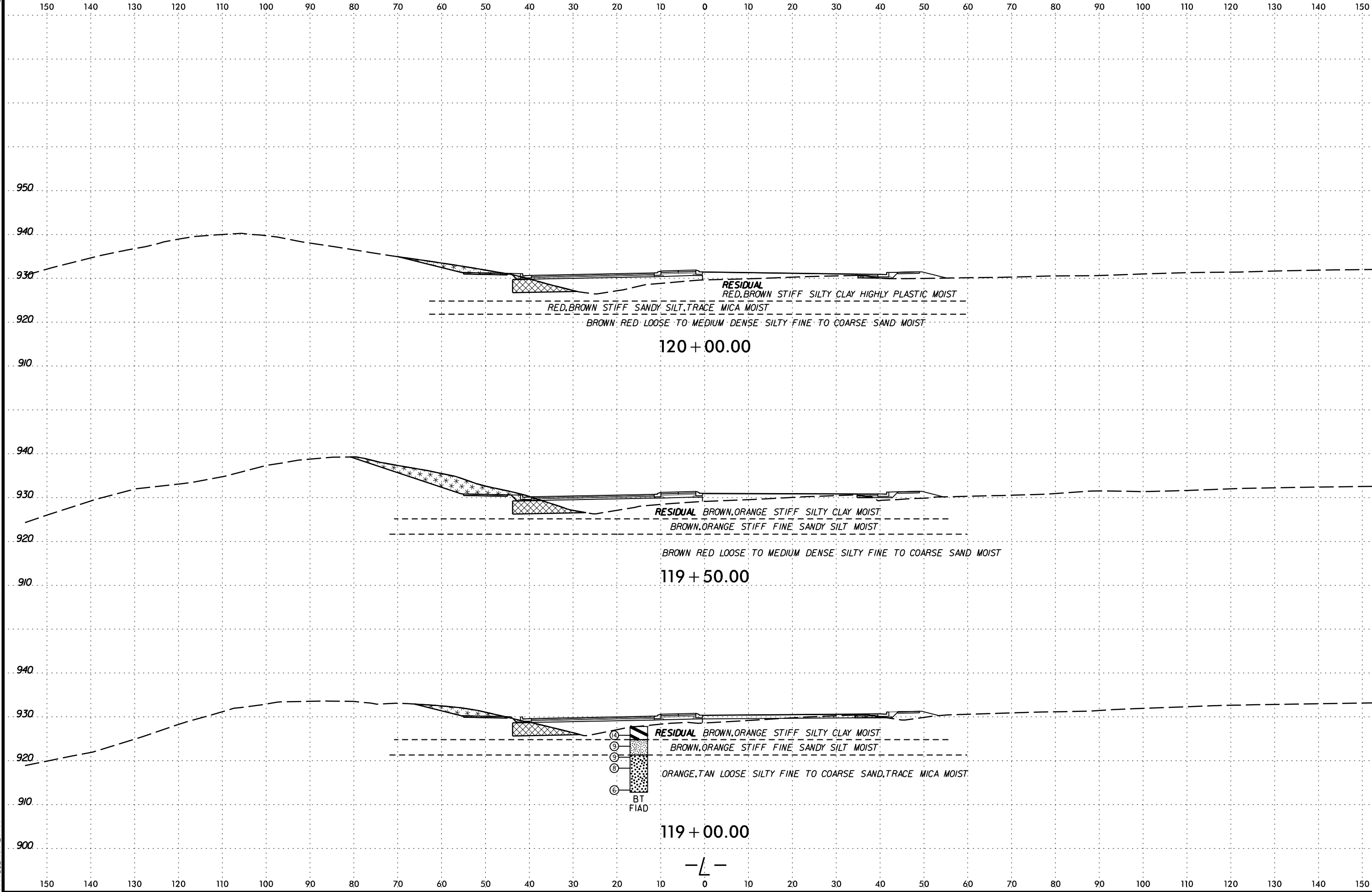


6/23/16



PROJ. REFERENCE NO.
U-4758

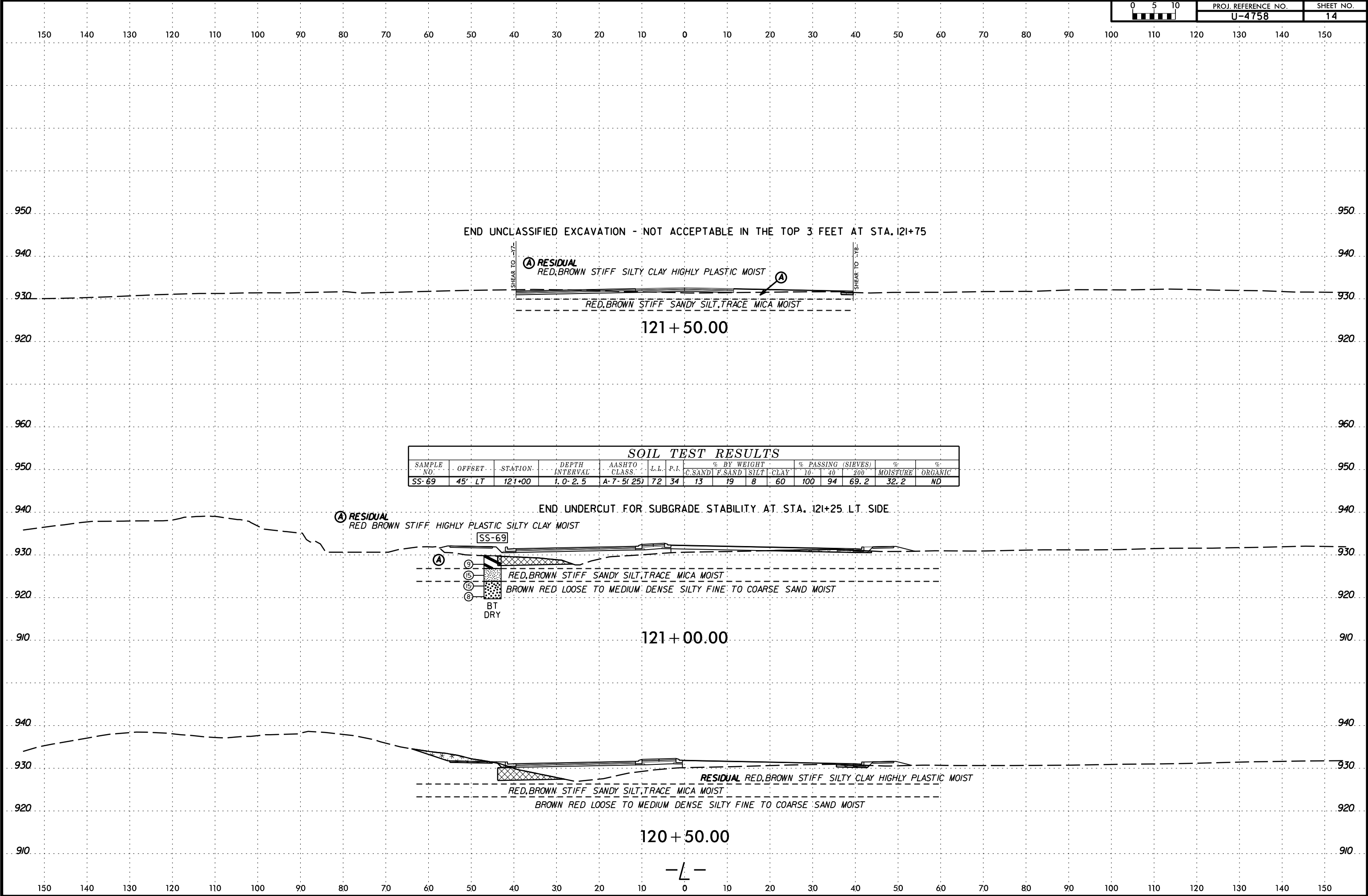
SHEET NO.
13



6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	14



RESIDUAL SOIL CONDITION
SUBGRADE

6/23/16

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

950 950

940 940

930 930

920 920

RESIDUAL
BROWN RED LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST

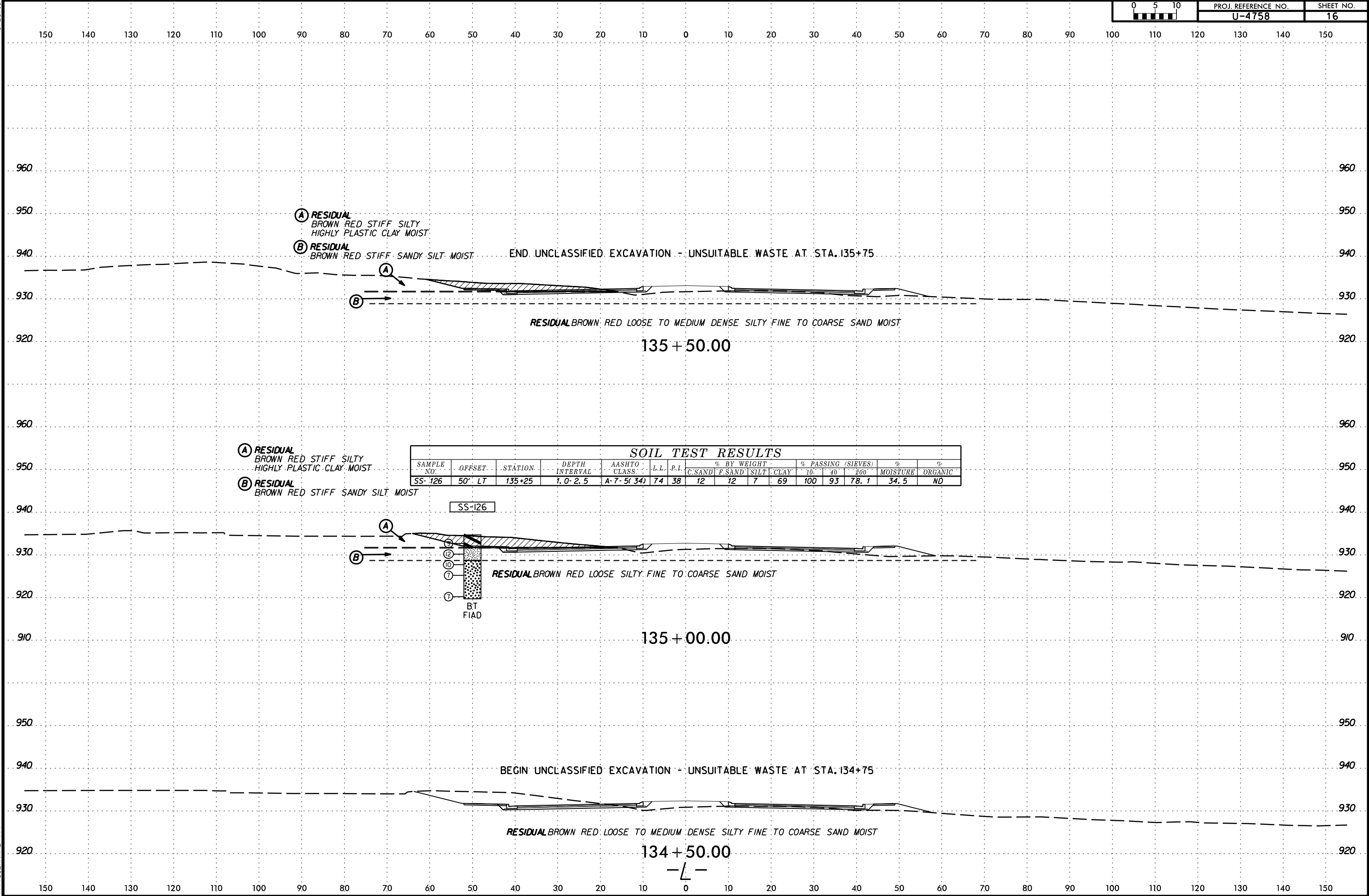
122+00.00

-L-

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	16



6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
17

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

950

950

940

940

930

930

920

920

910

910

- 9
- 12
- 9
- 6
- 10



BT
DRY

RESIDUAL BROWN RED LOOSE TO LOOSE CLAYEY FINE TO COARSE SAND AND SILTY FINE TO COARSE SAND MOIST

136+00.00

— L —

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

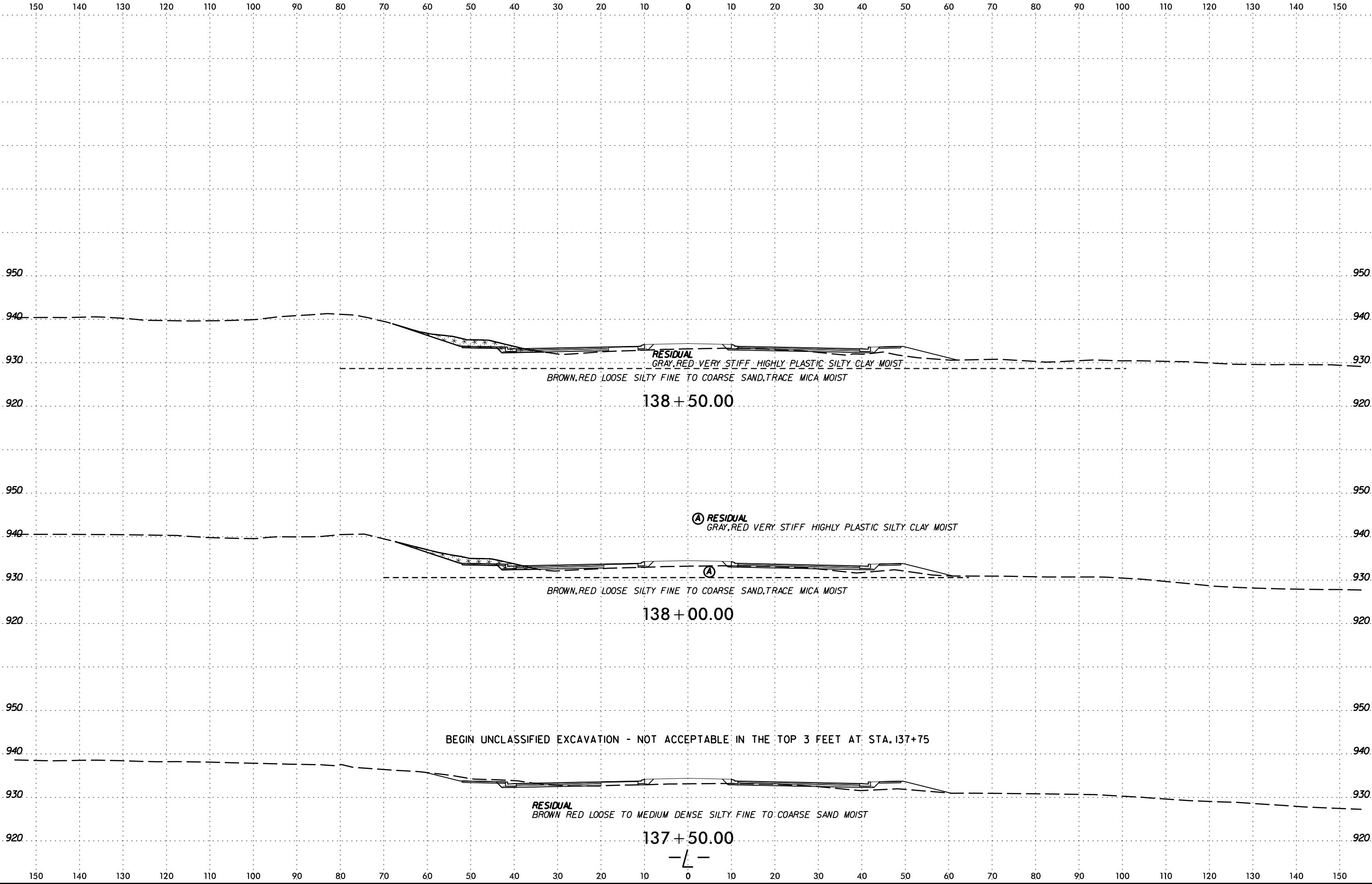
SYNTHETIC
CONCRETE
CURB

6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
18

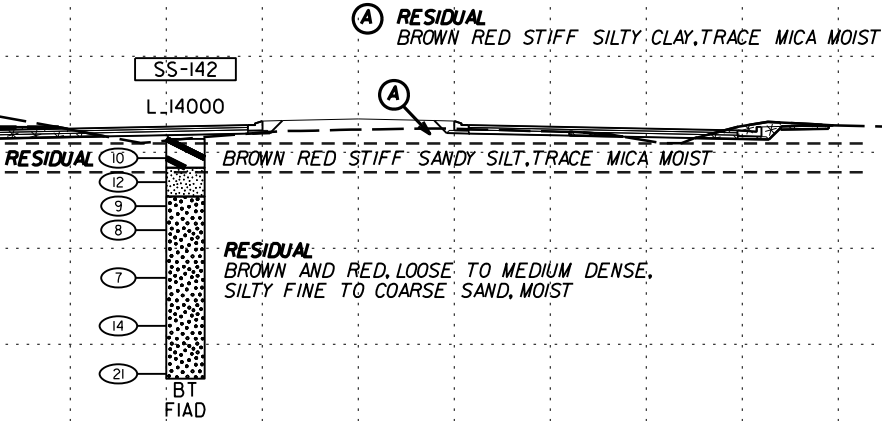


6/23/16



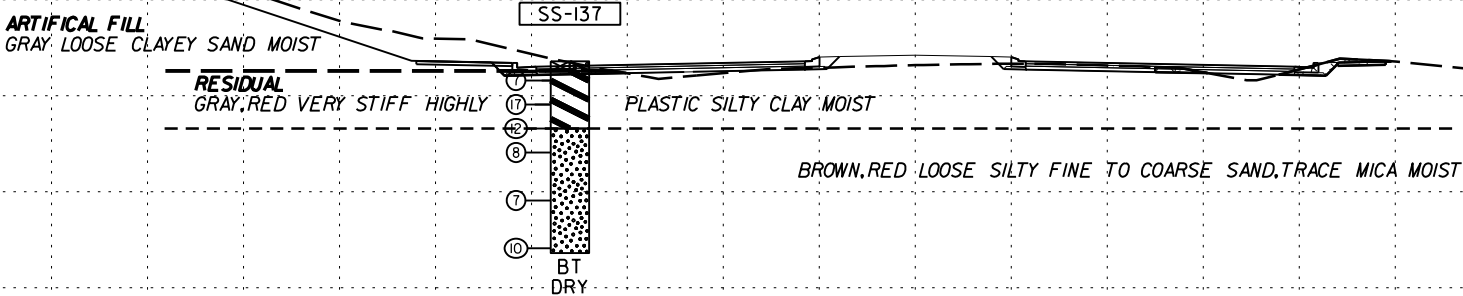
PROJ. REFERENCE NO.	SHEET NO.
U-4758	19

SOIL TEST RESULTS															
SAMPLE NO.	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-142	18' LT	140+00	1.0-2.5	A-7-5(26)	68	29	13	11	10	66	100	94	77.1	34.7	ND



140 + 00.00

SOIL TEST RESULTS															
SAMPLE NO.	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-137	36' LT	139+00	3.5-5.0	A-7-5(20)	66	28	21	14	10	55	100	87	66.9	26	ND



139 + 00.00

-L-

SECTION 139+00.00 TO 140+00.00

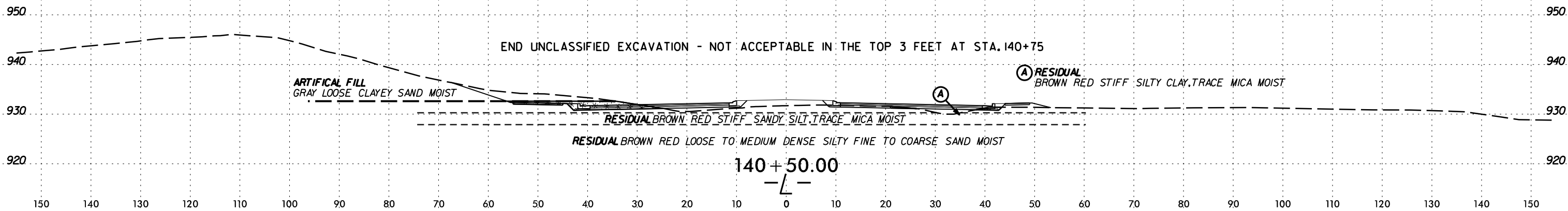
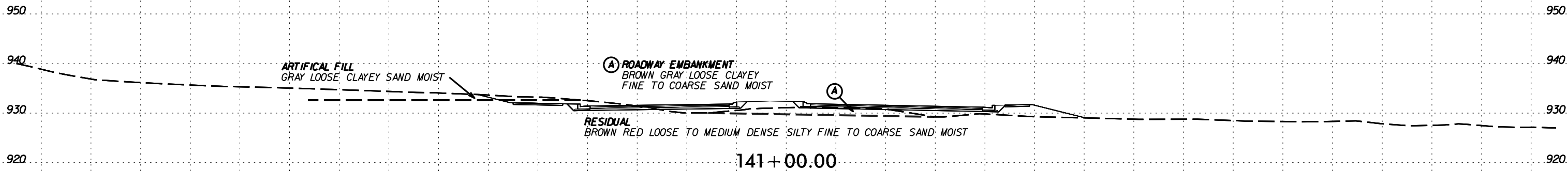
6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
20

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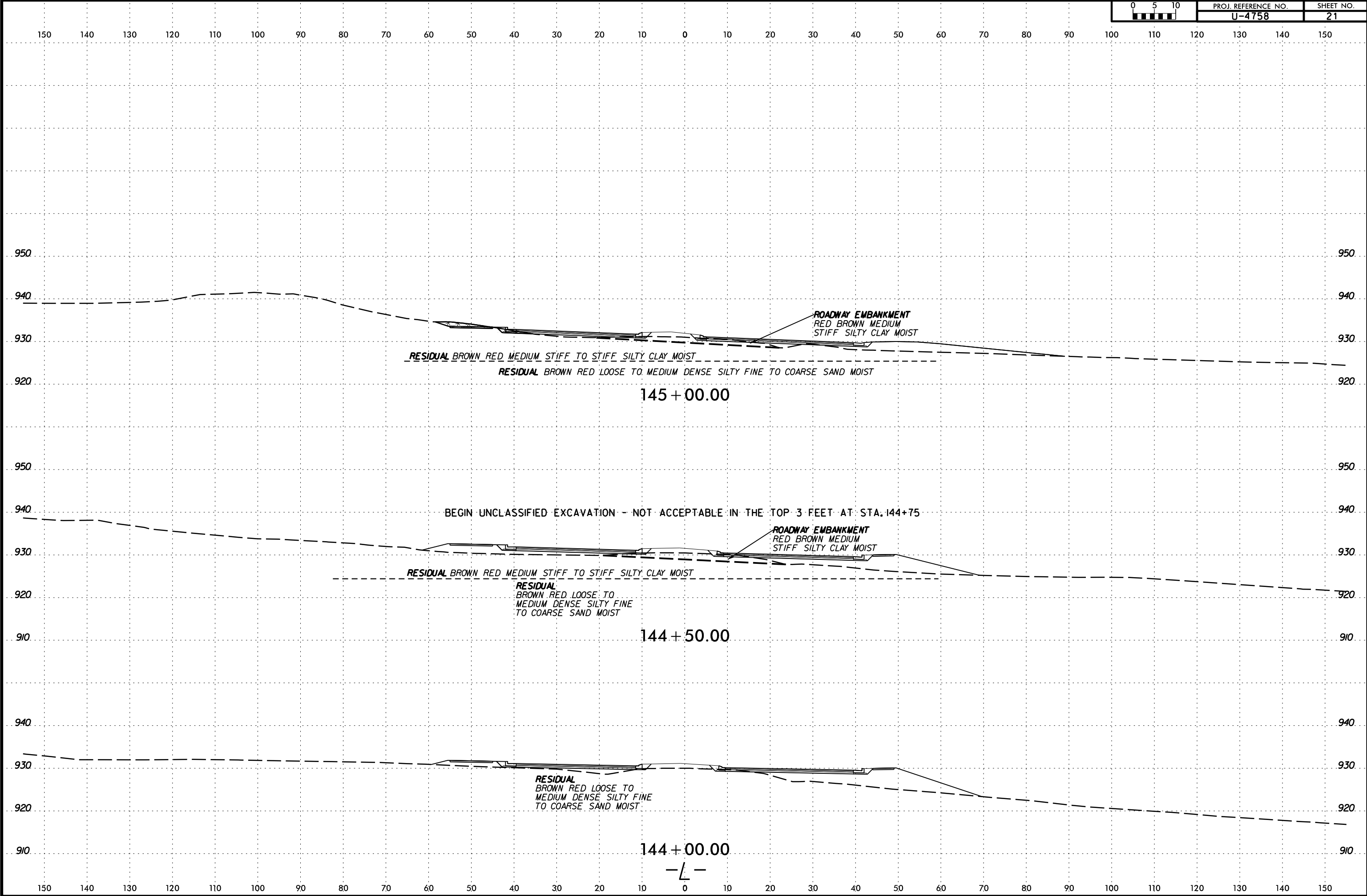


6/23/16



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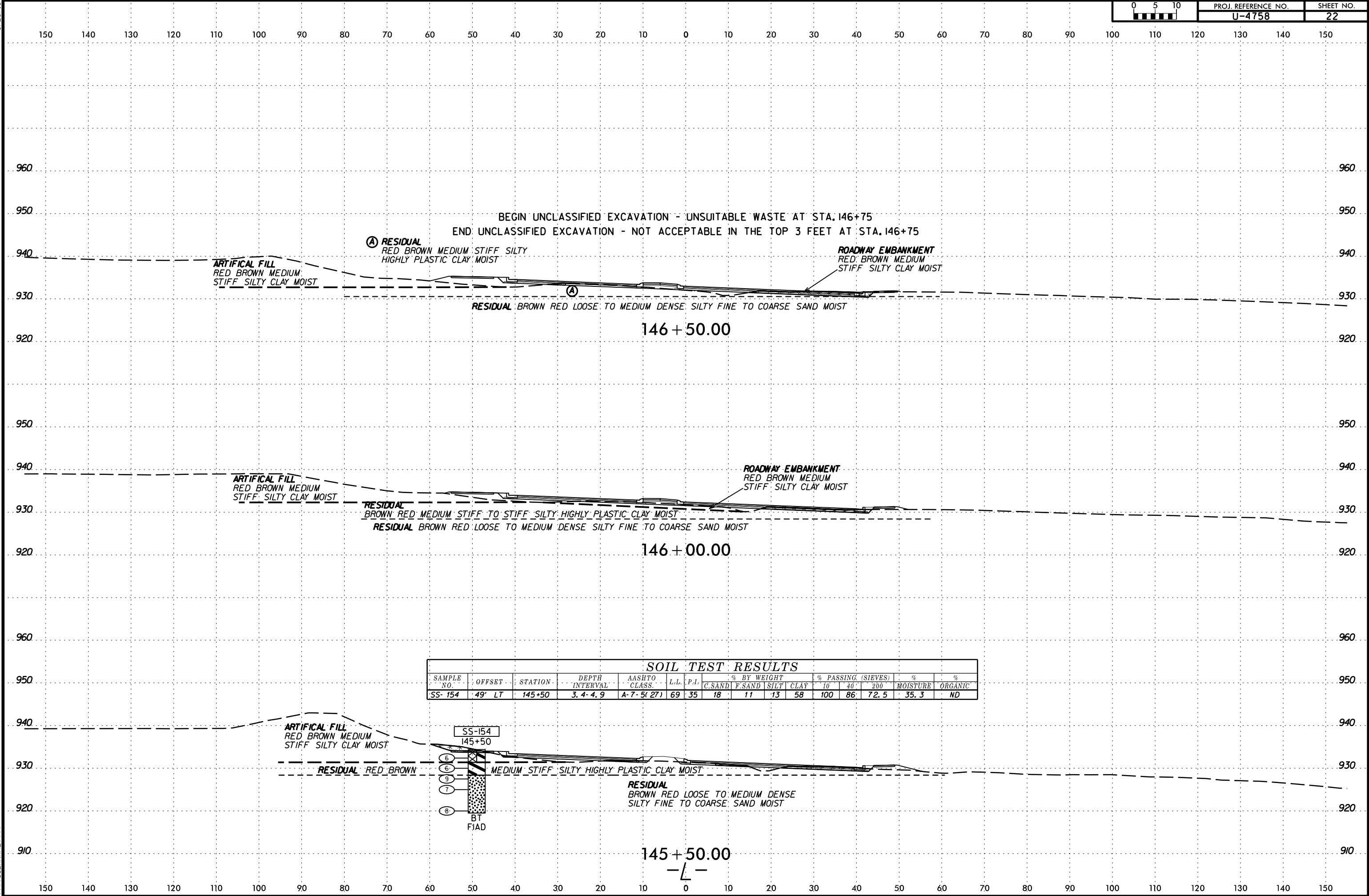
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6/23/16



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U-4758	22

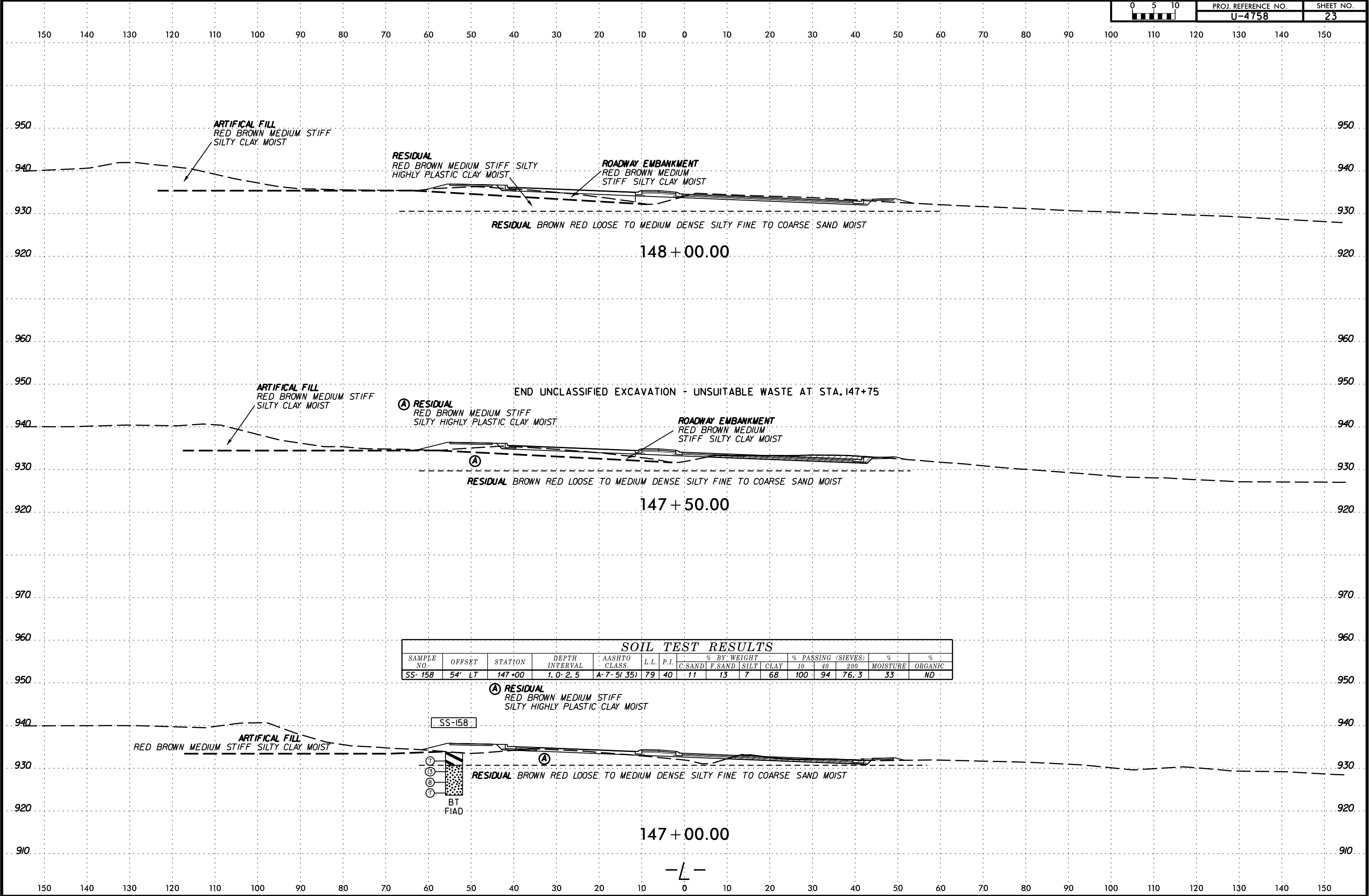


6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
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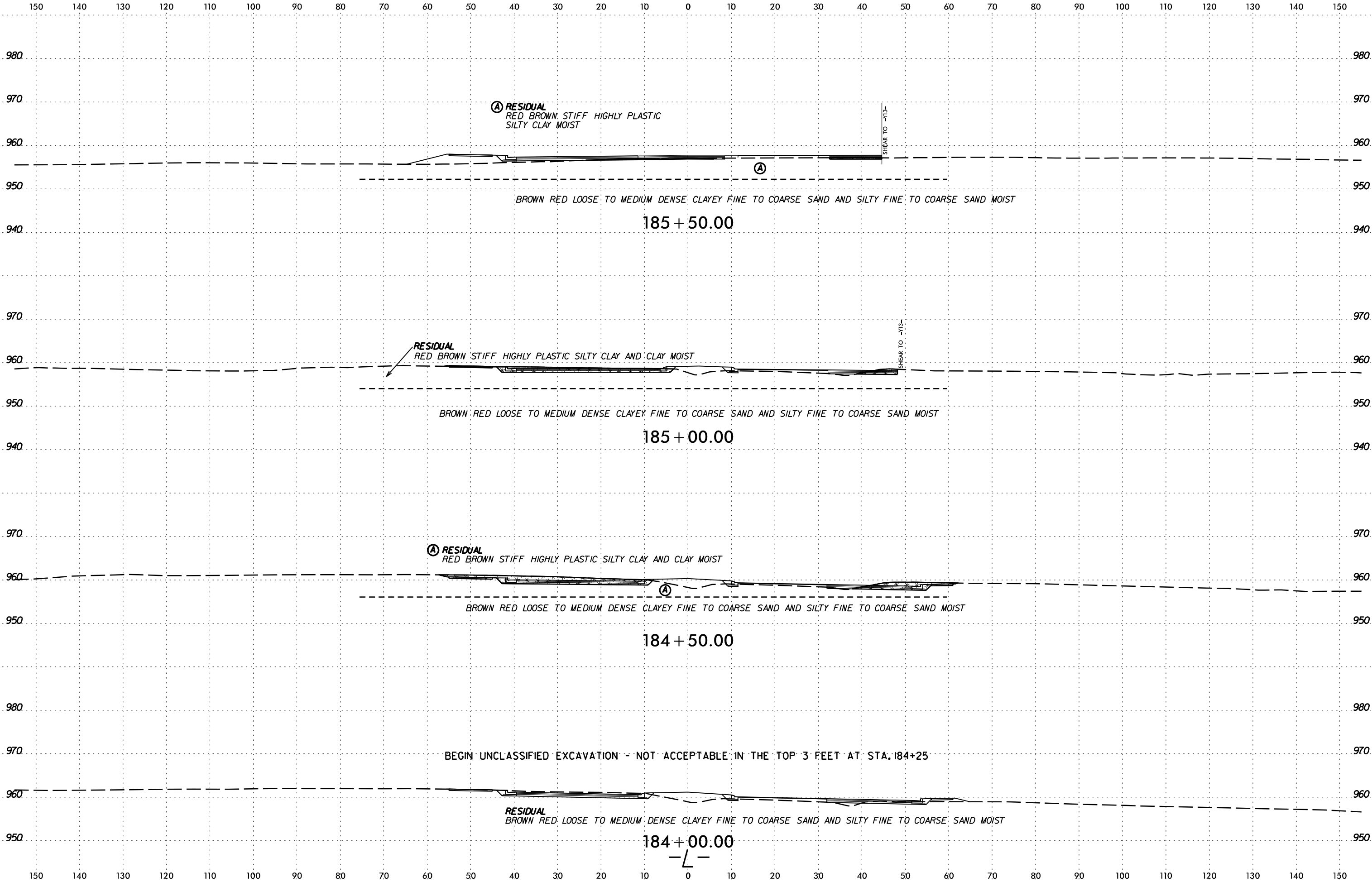


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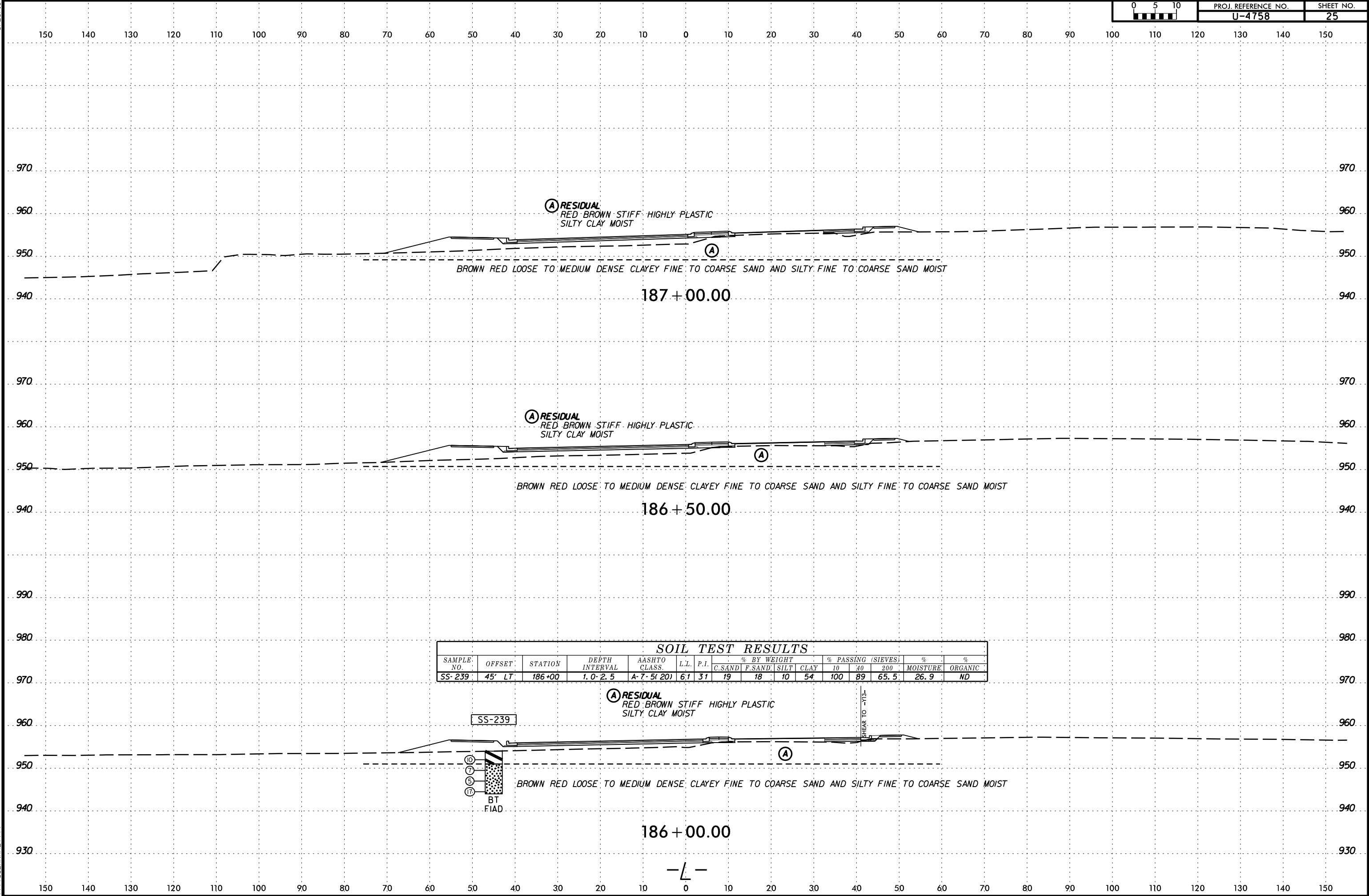
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6/23/16



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U-4758	25



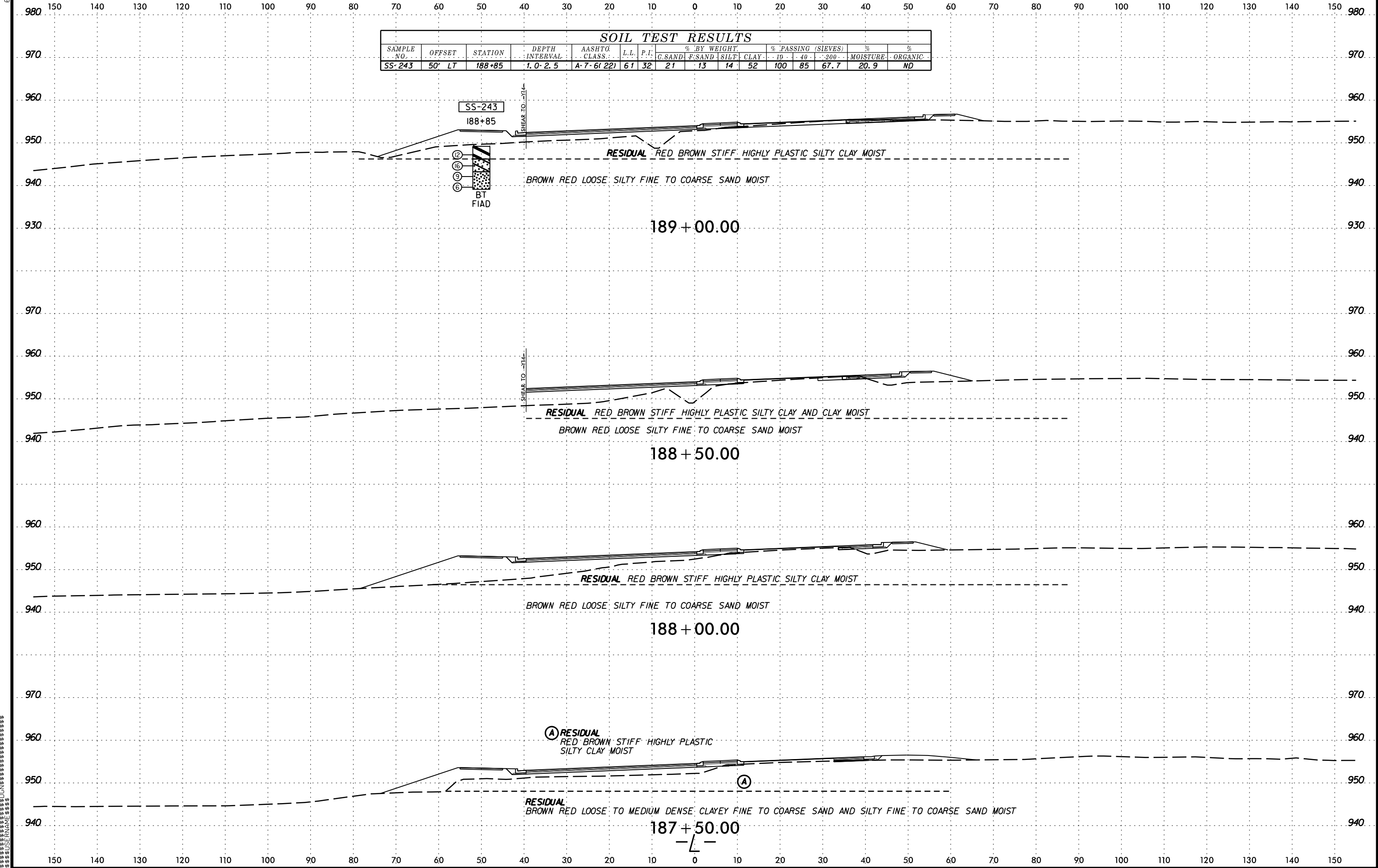
SS-239
BT
FIAD

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	26

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							G.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-243	50' LT	188+85	1.0-2.5	A-7-6(22)	61	32	21	13	14	52	100	85	67.7	20.9	ND

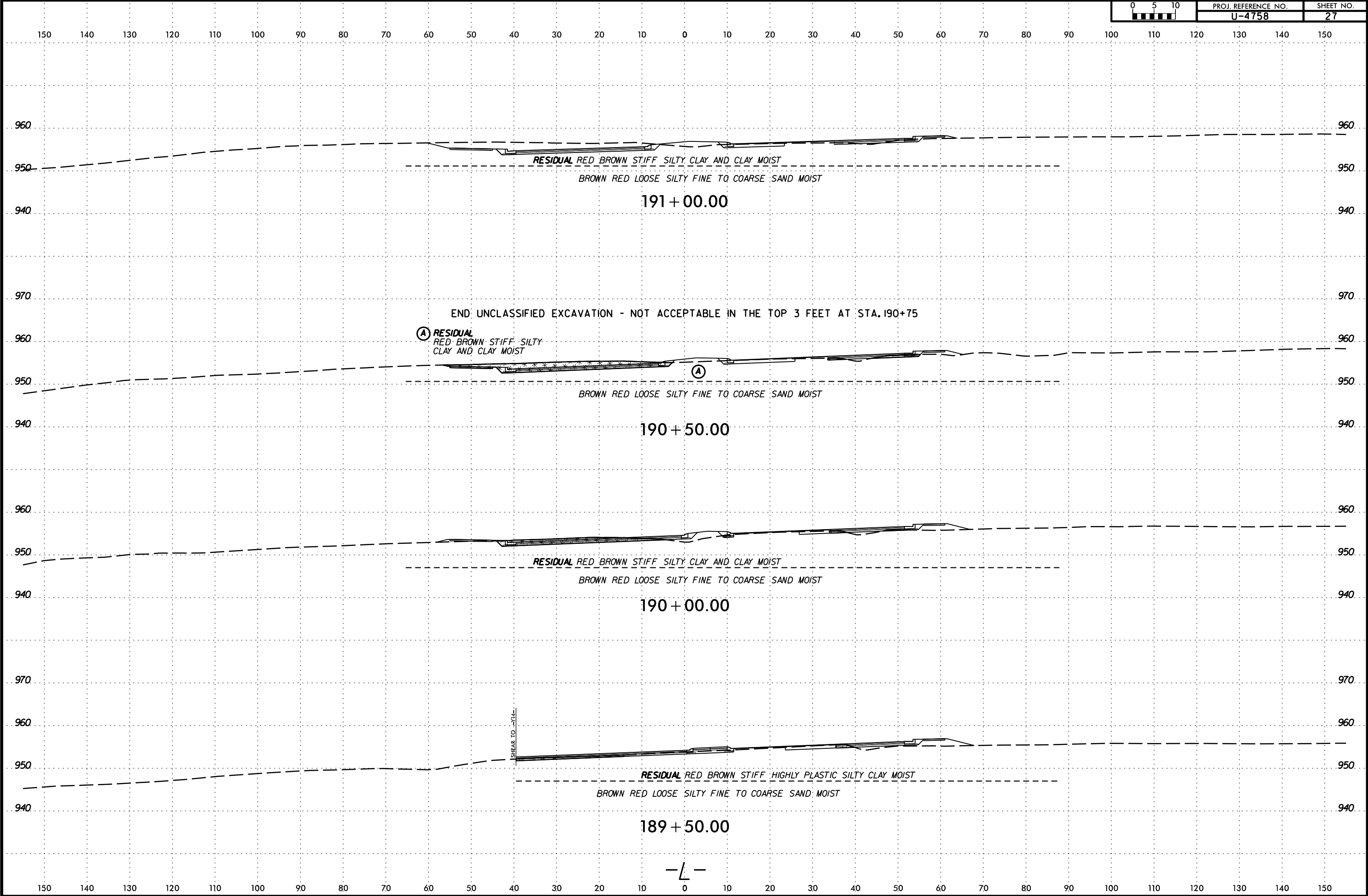


6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
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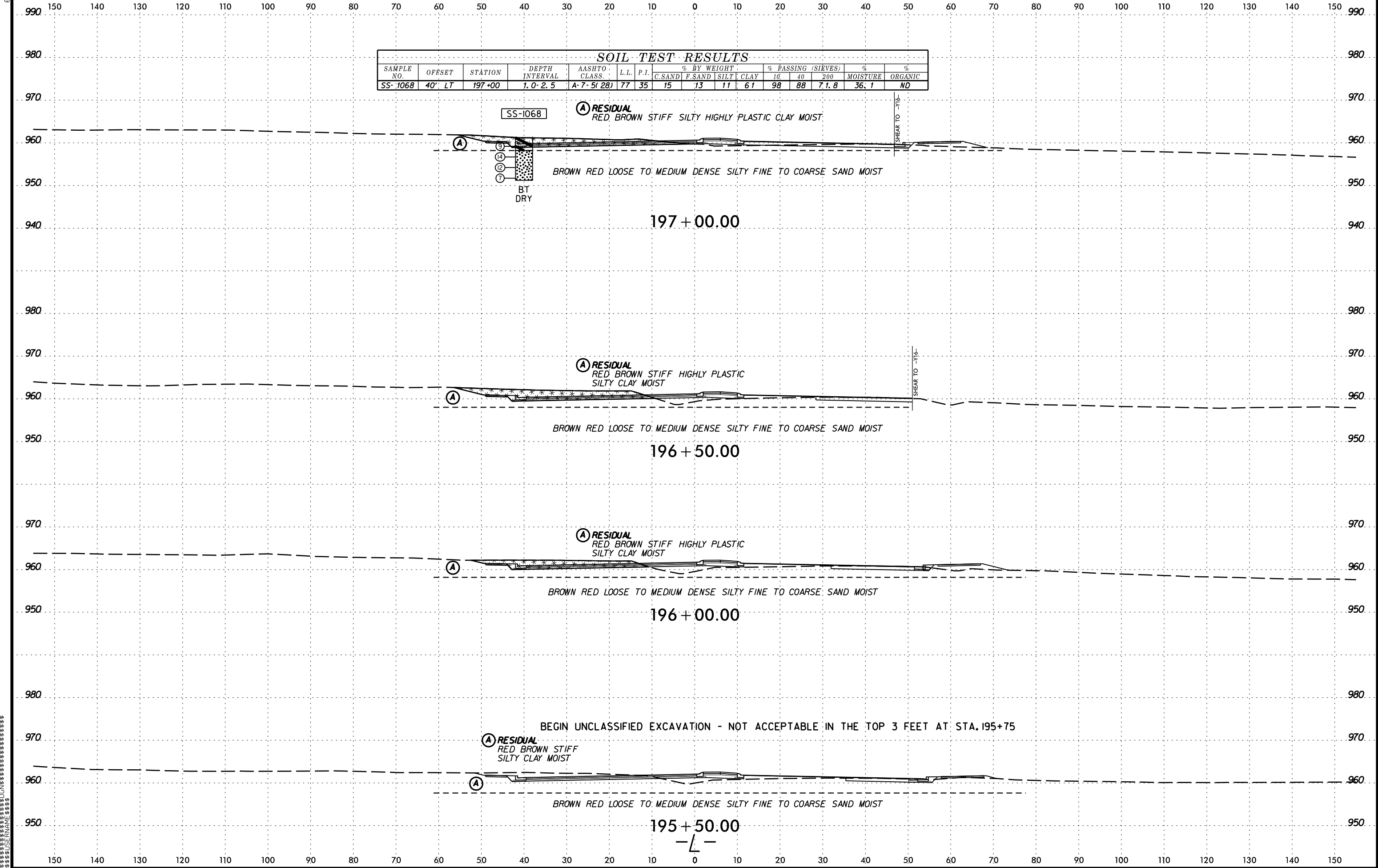


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	28

SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200	
SS-1068	40' LT	197+00	1.0-2.5	A-7-5(28)	77	35	15	13	11	61	98	88	71.8	36.1 ND

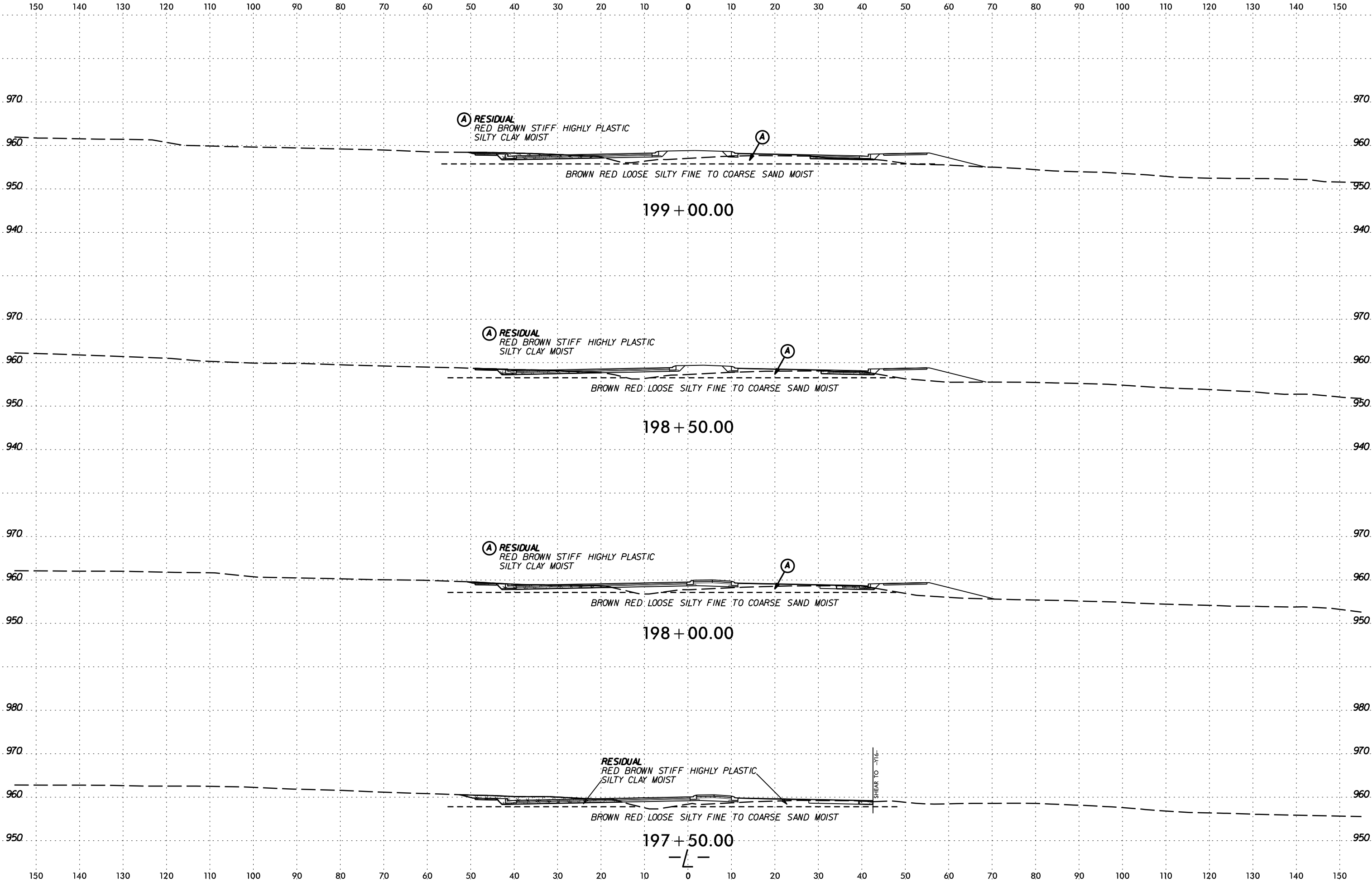


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PROJ. REFERENCE NO.
U-4758

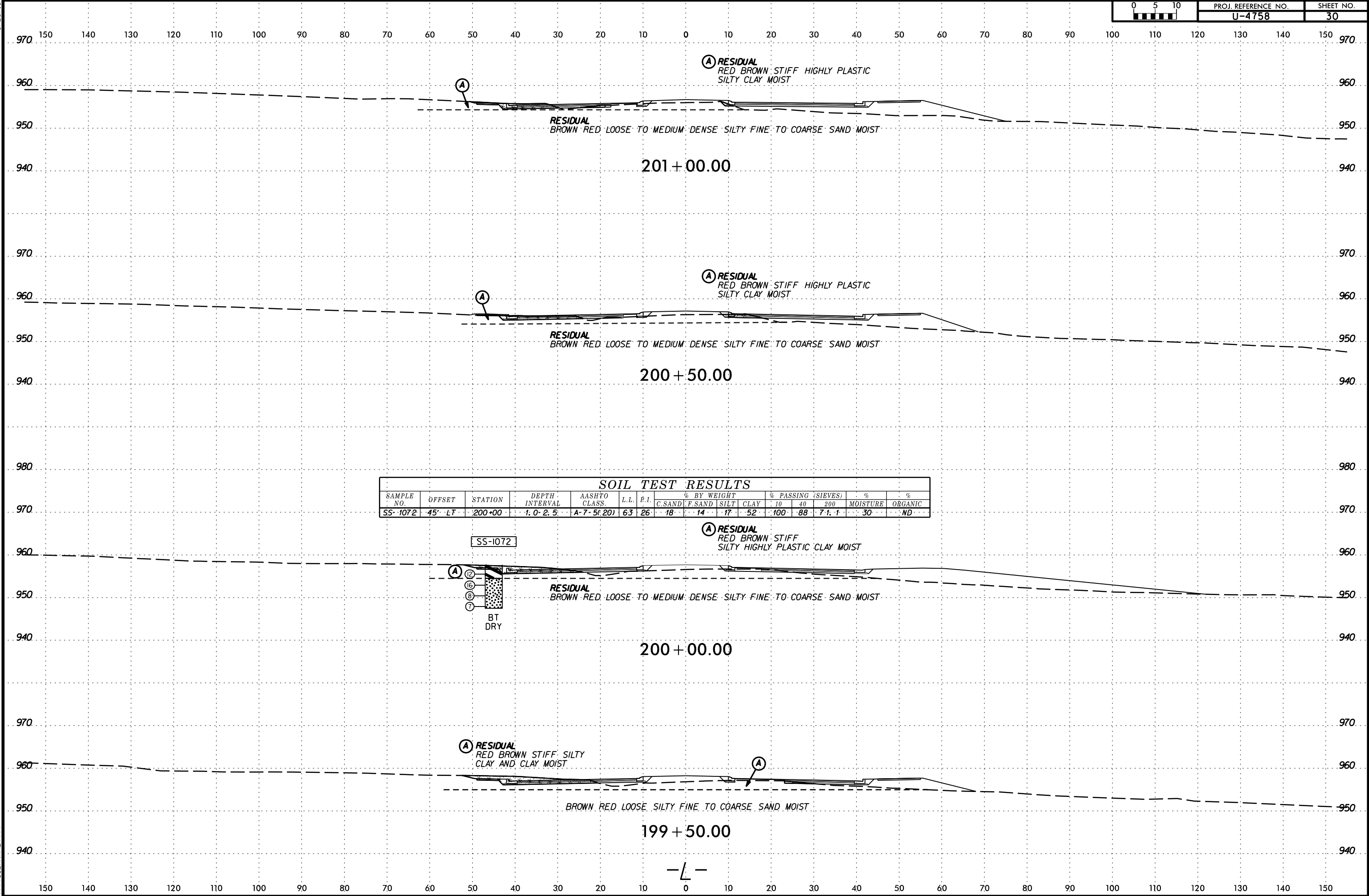
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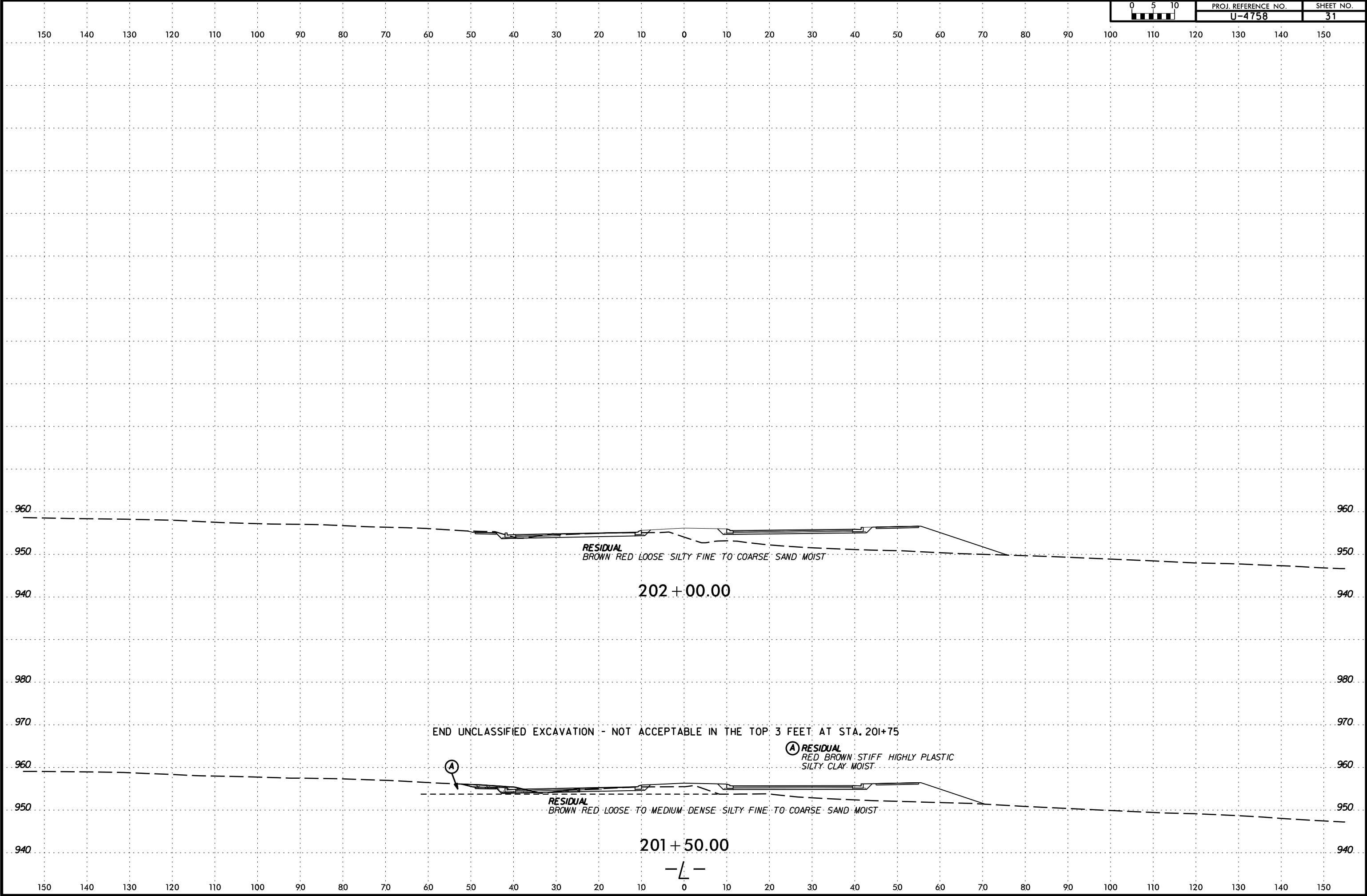


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U-4758	30

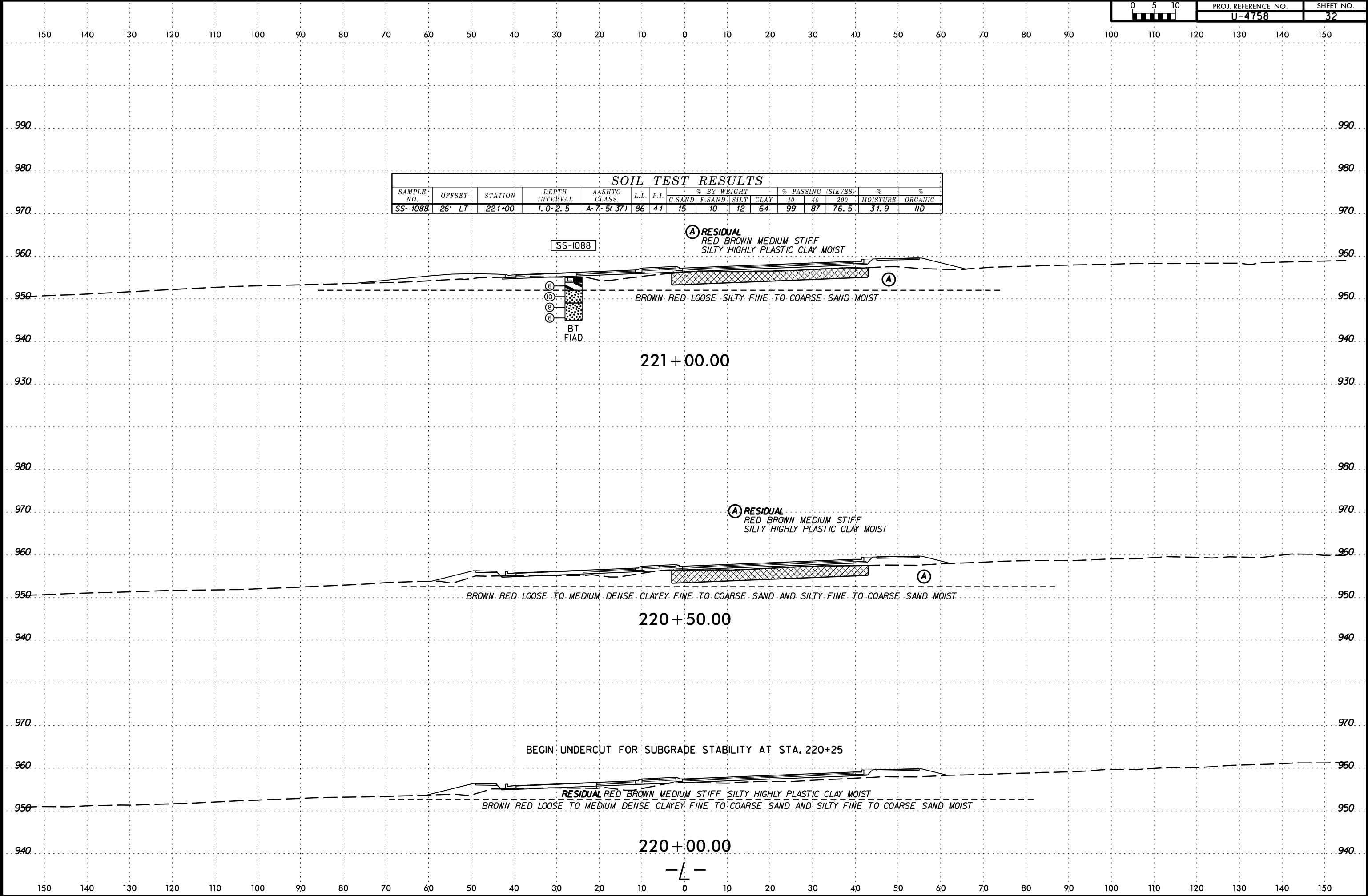




6/23/16

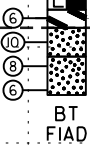


PROJ. REFERENCE NO.	SHEET NO.
U-4758	32



SOIL TEST RESULTS															
SAMPLE NO.	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-1088	26' LT	221+00	1.0-2.5	A-7-5(37)	86	41	15	10	12	64	99	87	76.5	31.9	ND

SS-1088



BT FIAD

221+00.00

RESIDUAL
RED BROWN MEDIUM STIFF
SILTY HIGHLY PLASTIC CLAY MOIST

BROWN RED LOOSE SILTY FINE TO COARSE SAND MOIST

RESIDUAL
RED BROWN MEDIUM STIFF
SILTY HIGHLY PLASTIC CLAY MOIST

220+50.00

BROWN RED LOOSE TO MEDIUM DENSE CLAYEY FINE TO COARSE SAND AND SILTY FINE TO COARSE SAND MOIST

BEGIN UNDERCUT FOR SUBGRADE STABILITY AT STA. 220+25

RESIDUAL RED BROWN MEDIUM STIFF SILTY HIGHLY PLASTIC CLAY MOIST

BROWN RED LOOSE TO MEDIUM DENSE CLAYEY FINE TO COARSE SAND AND SILTY FINE TO COARSE SAND MOIST

220+00.00

-L-

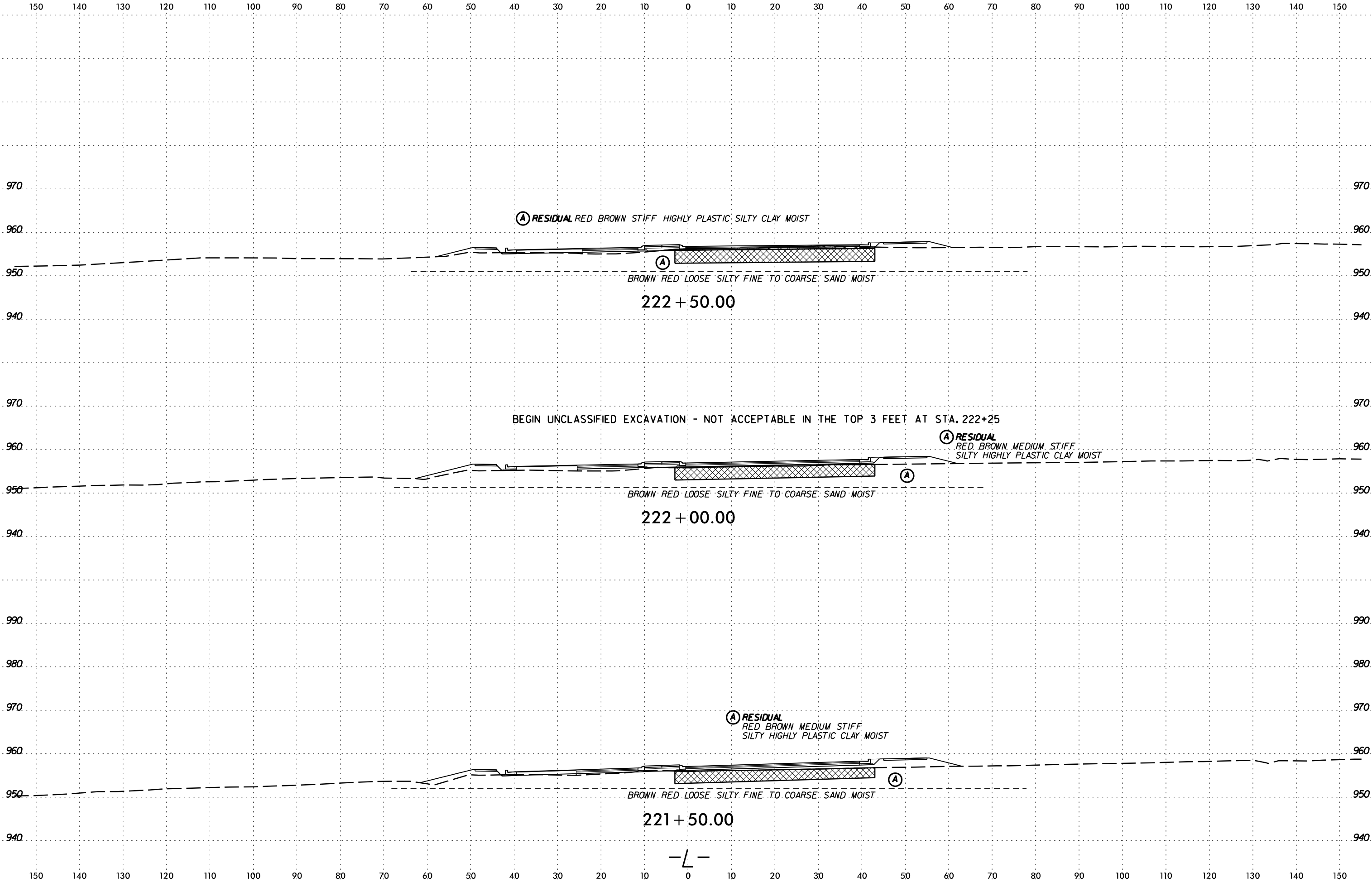
SECTION CUT THROUGH SUBGRADE

6/23/16



PROJ. REFERENCE NO.
U-4758

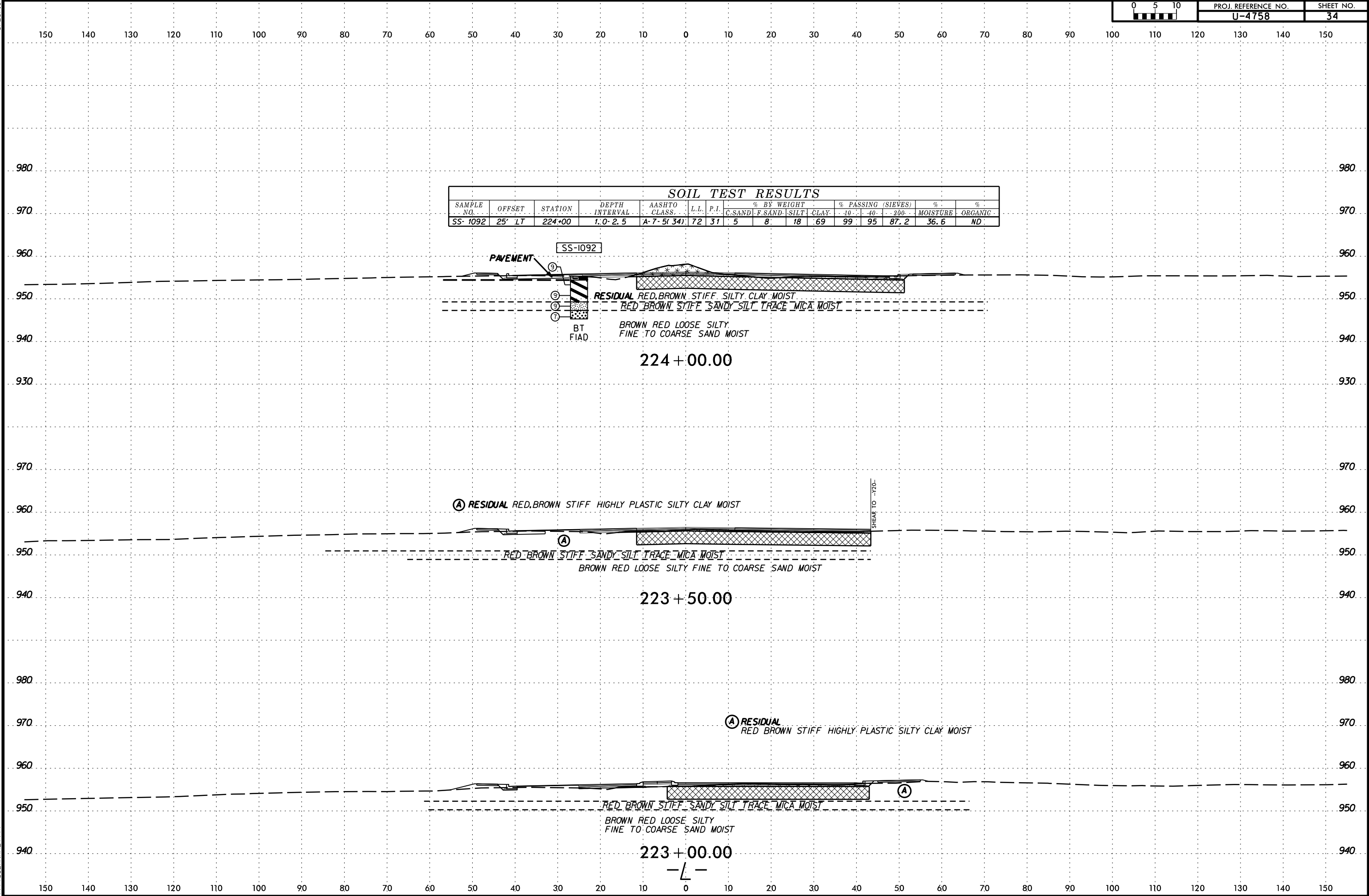
SHEET NO.
33



6/23/16

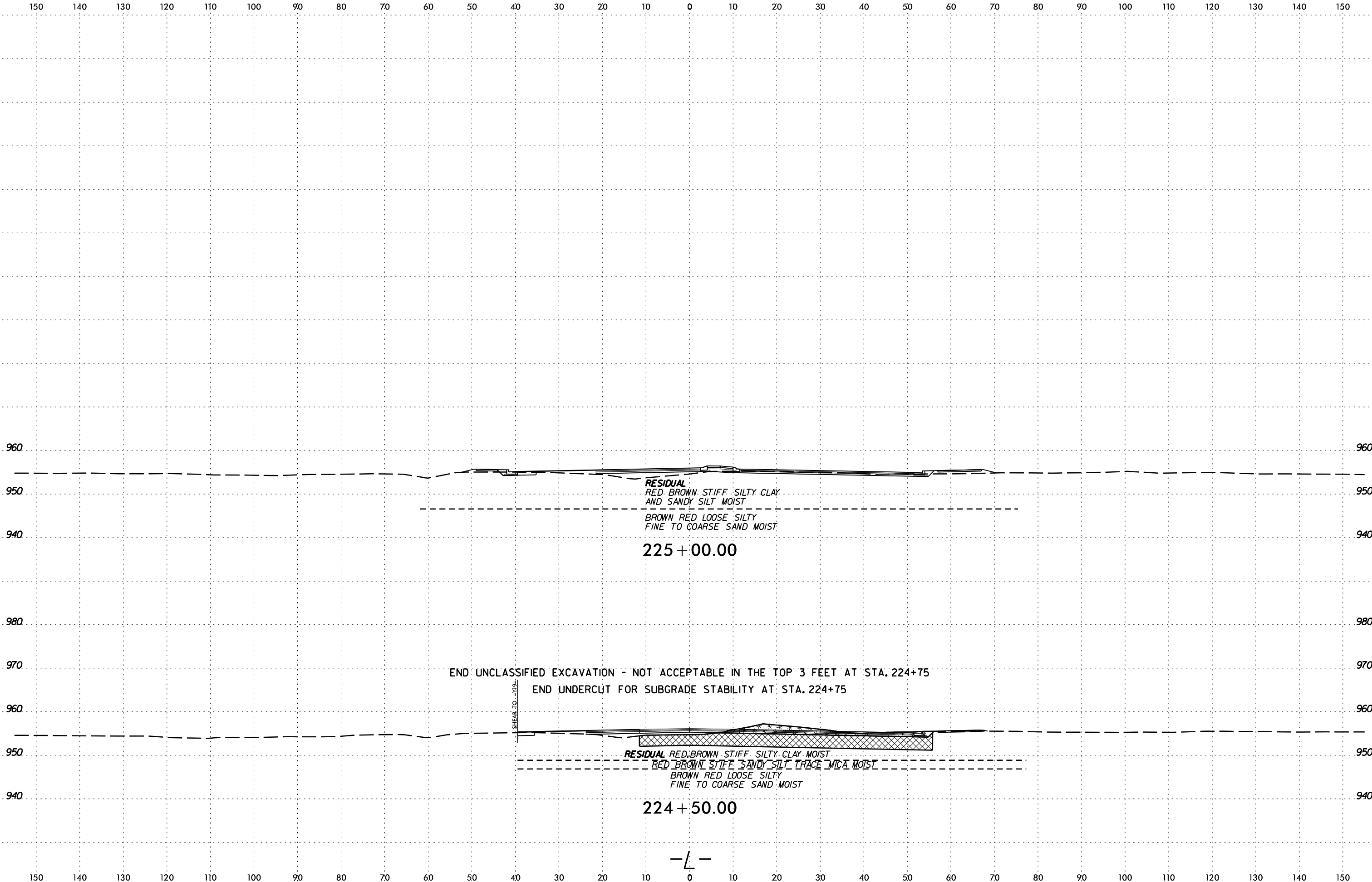


PROJ. REFERENCE NO.	SHEET NO.
U-4758	34



SOIL TEST RESULTS													
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		
							C. SAND	F. SAND	SILT	CLAY	-10-	-40-	-200-
SS-1092	25' LT	224+00	1.0-2.5	A-7-5(34)	72	31	5	8	18	69	99	95	87.2
											MOISTURE		ORGANIC
											36.6		ND

SS-1092
BT FIAD
RESIDUAL RED, BROWN STIFF SILTY CLAY MOIST
RED BROWN STIFF SANDY SILT TRACE MICA MOIST
BROWN RED LOOSE SILTY FINE TO COARSE SAND MOIST
PAVEMENT
SS-1092
224+00.00
223+50.00
223+00.00
SHEAR TO -170-
L

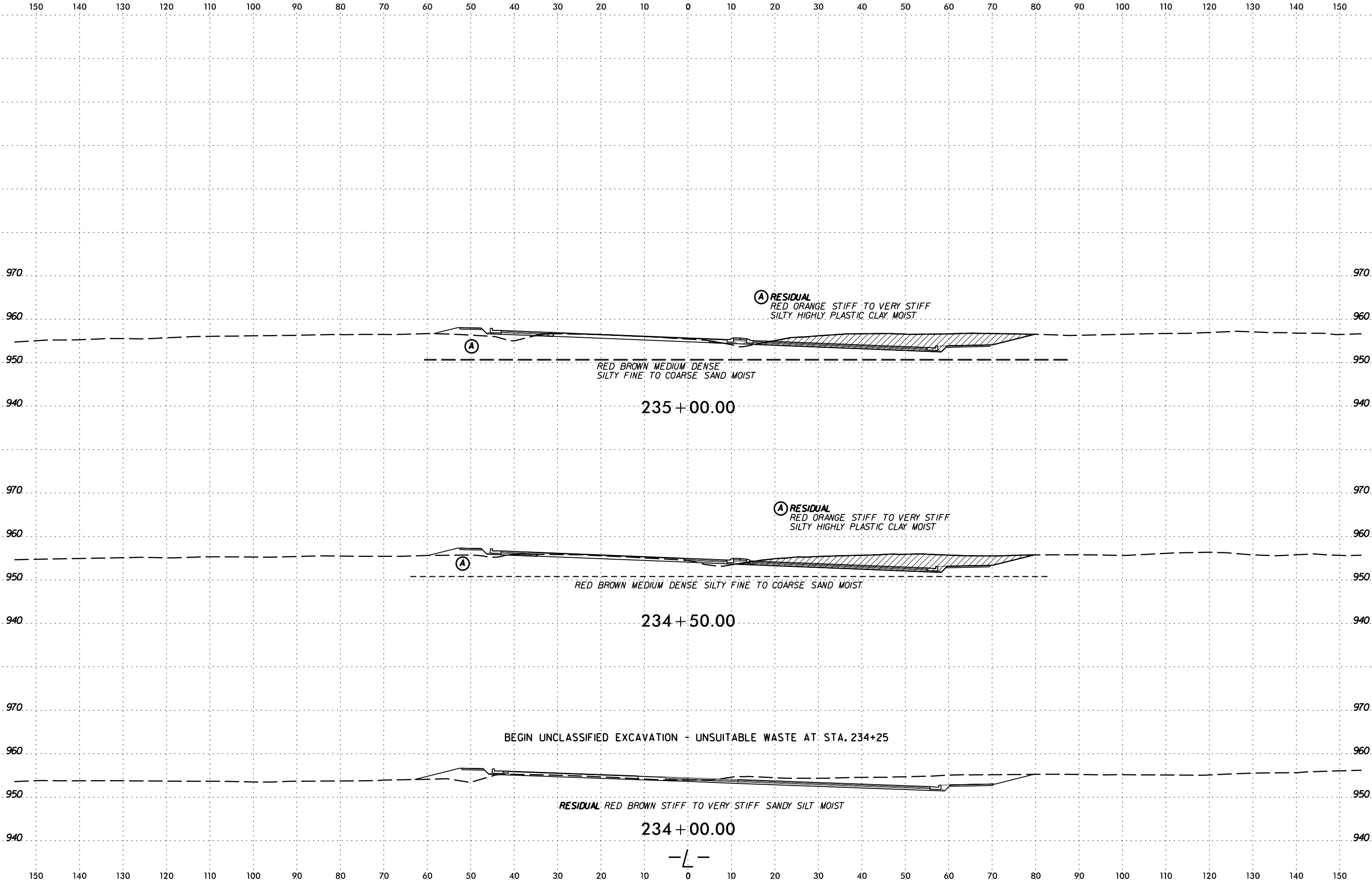


6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
36



6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	37

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

980 980

970 970

960 960

950 950

970 970

960 960

950 950

940 940

990 990

980 980

970 970

960 960

950 950

940 940

930 930

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Ⓐ RESIDUAL
RED ORANGE STIFF TO VERY STIFF
SILTY HIGHLY PLASTIC CLAY MOIST

Ⓐ

RED BROWN MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST

236 + 50.00

RESIDUAL
RED ORANGE STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

RED BROWN MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST

236 + 00.00

SOIL TEST RESULTS

SAMPLE NO.	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-539	55' RT	235+50	1.0-2.5	A-7-5(36)	72	36	9	8	11	72	100	94	84.3	33.6	ND

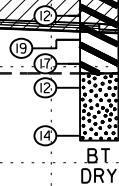
SS-539

RESIDUAL RED BROWN STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

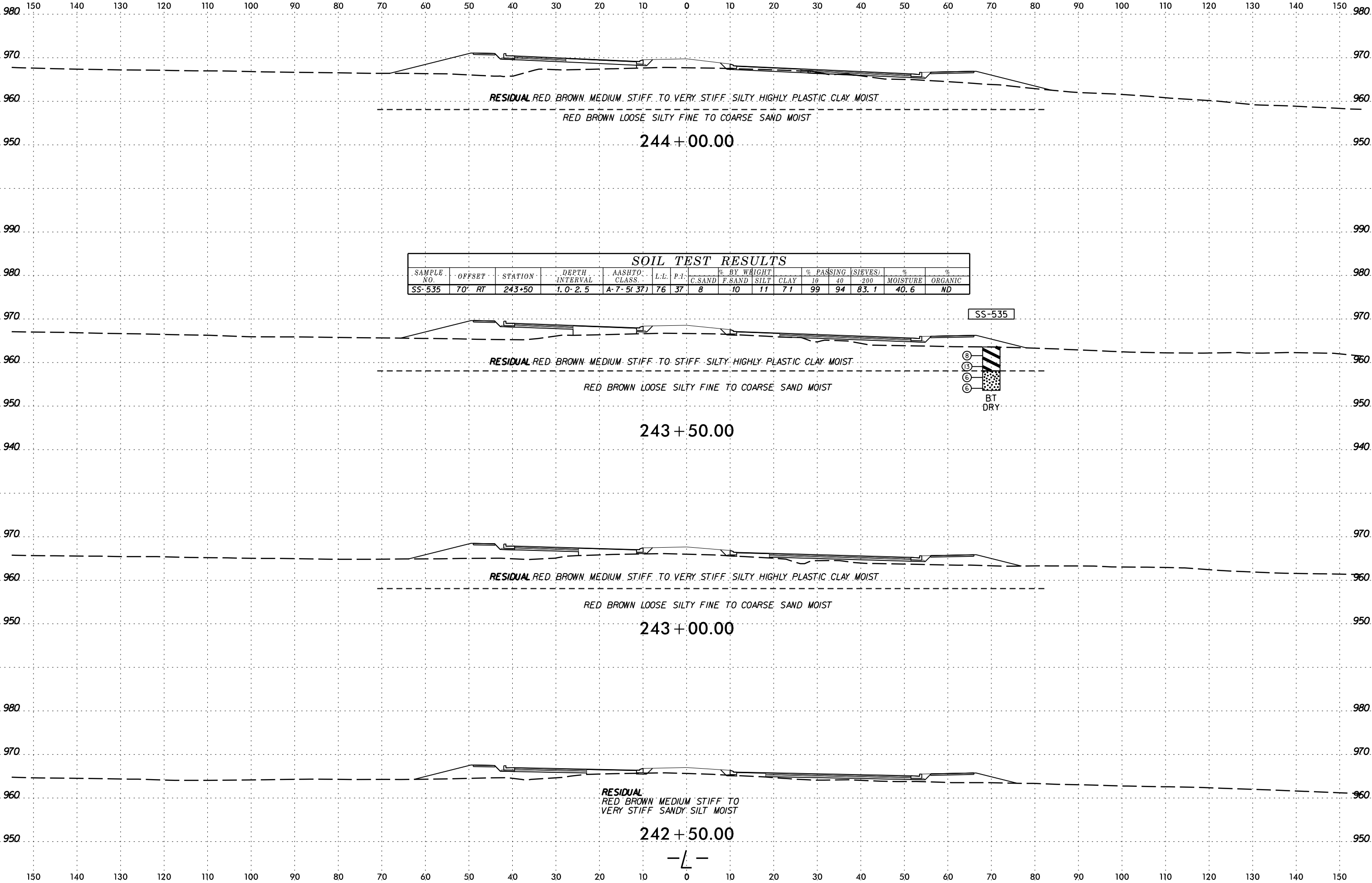
RED BROWN MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST

235 + 50.00

-L-

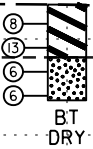


6/23/16
SS-539
55' RT
235+50
1.0-2.5
A-7-5(36)
72
36
9
8
11
72
100
94
84.3
33.6
ND



SOIL TEST RESULTS															
SAMPLE NO.	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-535	70' RT	243+50	1.0-2.5	A-7-5(37)	76	37	8	10	11	71	99	94	83.1	40.6	ND

SS-535



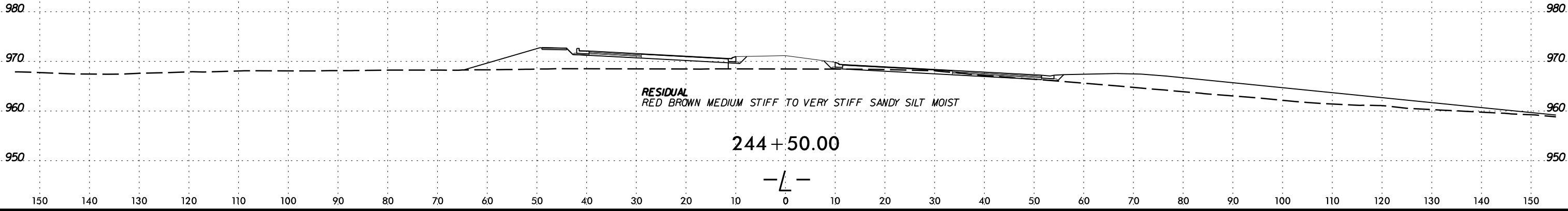
6/23/16



PROJ. REFERENCE NO.
U-4758

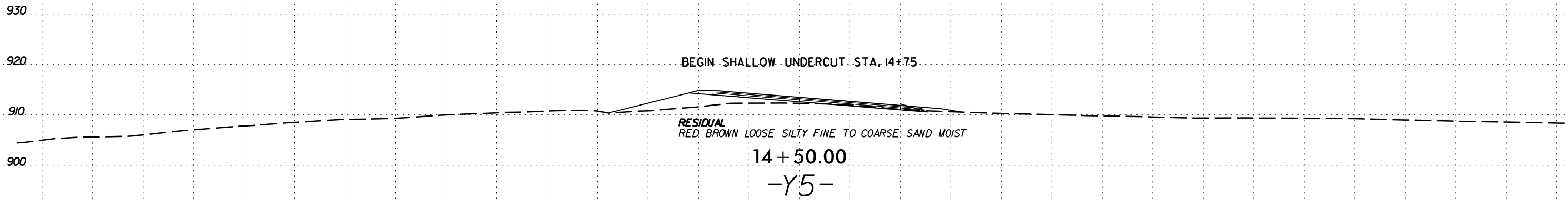
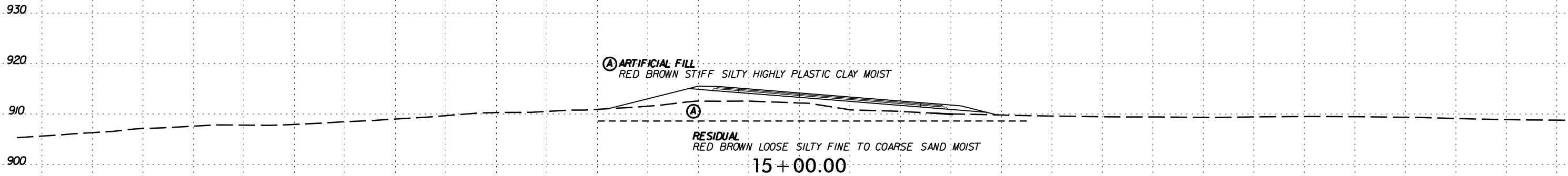
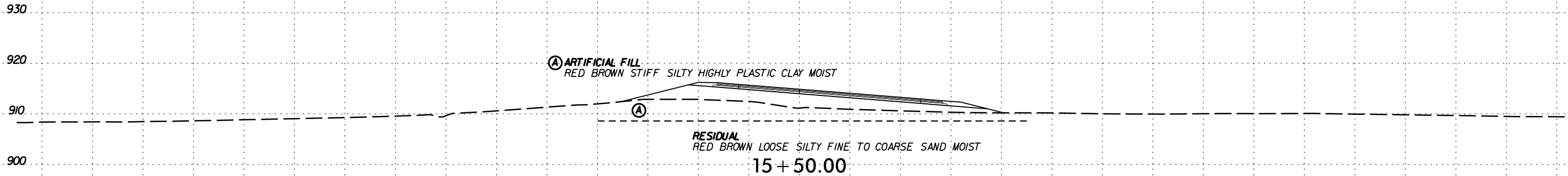
SHEET NO.
40

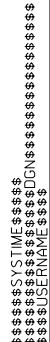
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
43

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

950 950

940 940

930 930

920 920

910 910

960 960

950 950

940 940

930 930

920 920

960 960

950 950

940 940

930 930

920 920

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

11 + 50.00

RESIDUAL
RED BROWN STIFF SILTY HIGHLY PLASTIC CLAY MOIST

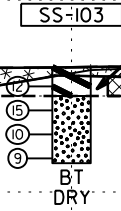
RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY FINE TO
COARSE SAND MOIST

SOIL TEST RESULTS															
SAMPLE NO.	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-103	40' LT	11+00	1.0-2.5	A-7-5(20)	68	26	15	16	8	61	100	93	69.5	30.2	ND

11 + 00.00

RESIDUAL
RED BROWN STIFF SILTY HIGHLY PLASTIC CLAY MOIST

RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY FINE TO
COARSE SAND MOIST



10 + 50.00

RESIDUAL
RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY FINE TO
COARSE SAND MOIST

BEGIN UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 10+75
BEGIN UNDERCUT FOR SUBGRADE STABILITY STA. 10+75

-Y8-

SECTION 10+00 TO 10+75
SUBGRADE

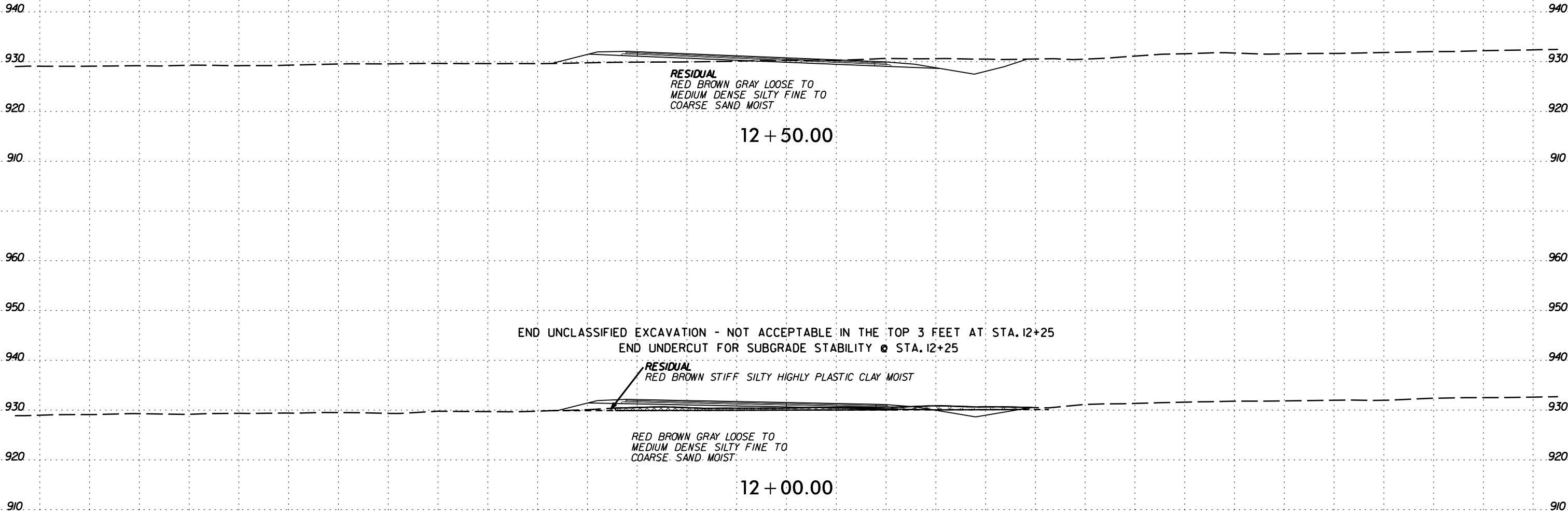
6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
44

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



12 + 50.00

RESIDUAL
RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY FINE TO
COARSE SAND MOIST

END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 12+25
END UNDERCUT FOR SUBGRADE STABILITY @ STA. 12+25

RESIDUAL
RED BROWN STIFF SILTY HIGHLY PLASTIC CLAY MOIST

RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY FINE TO
COARSE SAND MOIST

12 + 00.00

-Y8-

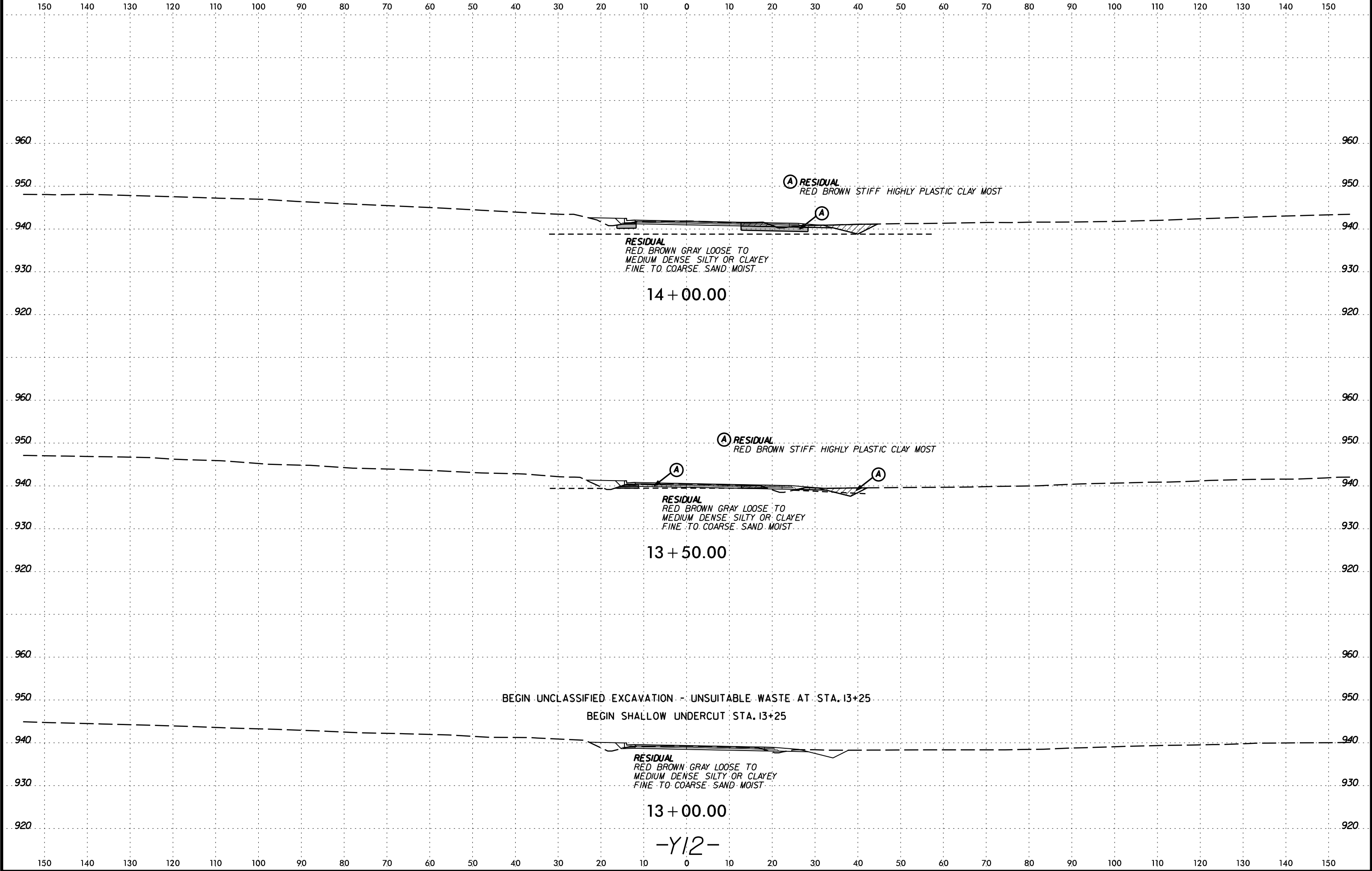
SECTION 8.00
SUBGRADE

6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
45



14 + 00.00

13 + 50.00

13 + 00.00

-Y12-

BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 13+25

BEGIN SHALLOW UNDERCUT STA. 13+25

RESIDUAL
RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY OR CLAYEY
FINE TO COARSE SAND MOIST

RESIDUAL
RED BROWN STIFF HIGHLY PLASTIC CLAY MOST

RESIDUAL
RED BROWN STIFF HIGHLY PLASTIC CLAY MOST

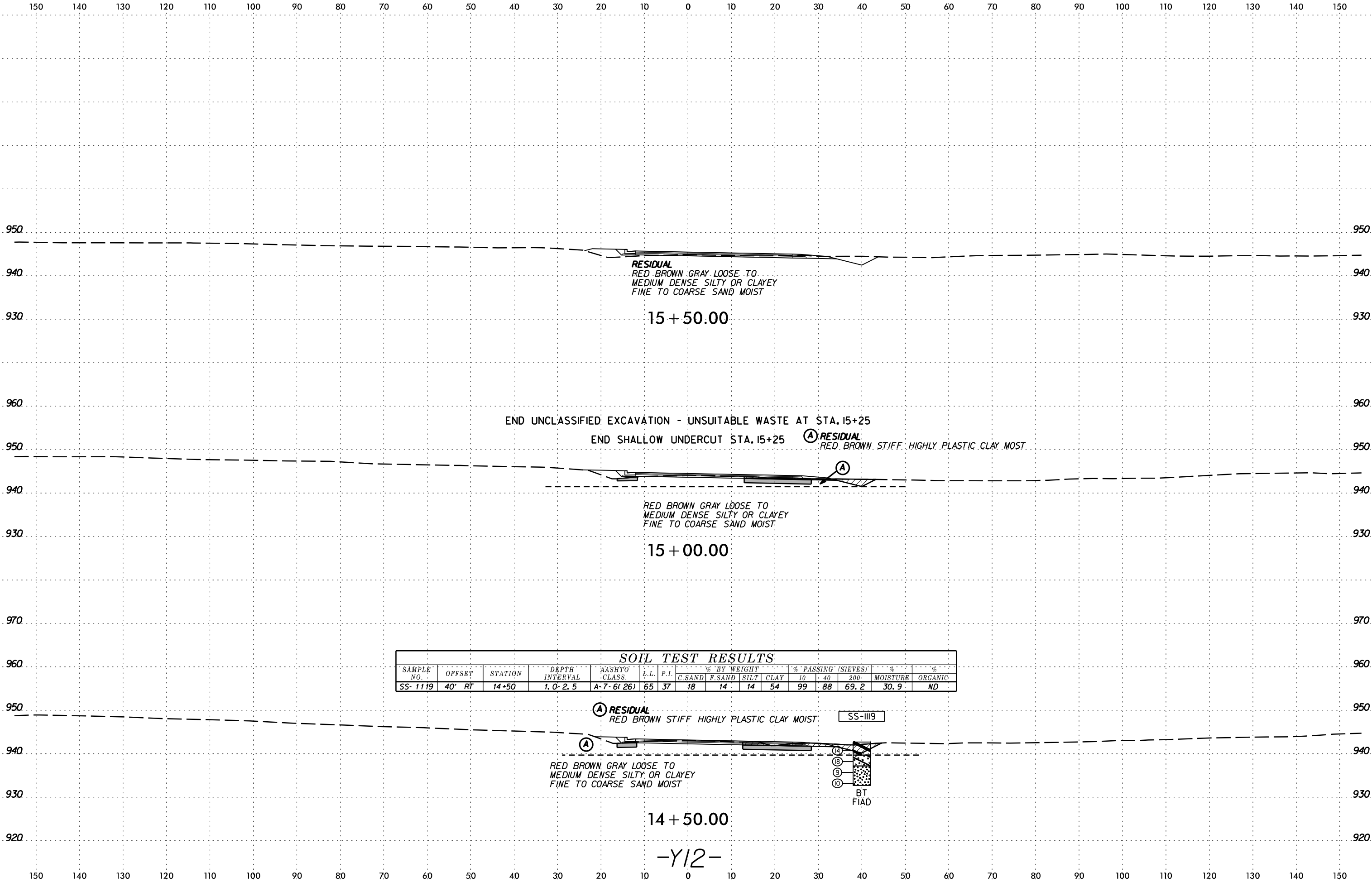
RESIDUAL
RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY OR CLAYEY
FINE TO COARSE SAND MOIST

RESIDUAL
RED BROWN GRAY LOOSE TO
MEDIUM DENSE SILTY OR CLAYEY
FINE TO COARSE SAND MOIST

6/23/16

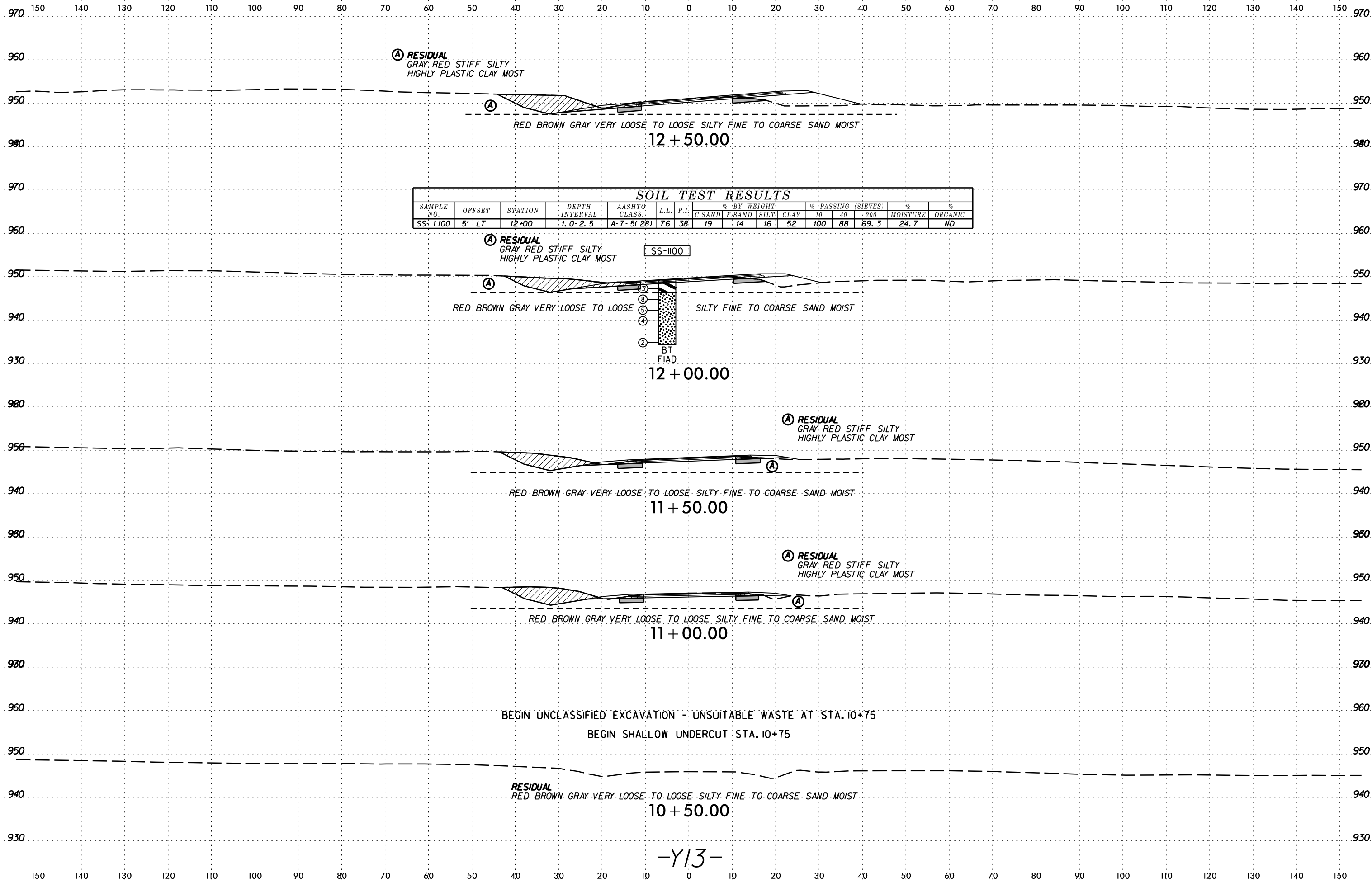


PROJ. REFERENCE NO.	SHEET NO.
U-4758	46



SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	WASH TO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%
							C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE
SS-1119	40' RT	14+50	1.0-2.5	A-7-6(26)	65	37	18	14	14	54	99	88	69.2	30.9
														ORGANIC
														ND

6/23/16
SS-1119
40' RT
14+50
1.0-2.5
A-7-6(26)
65
37
18
14
14
54
99
88
69.2
30.9
ND

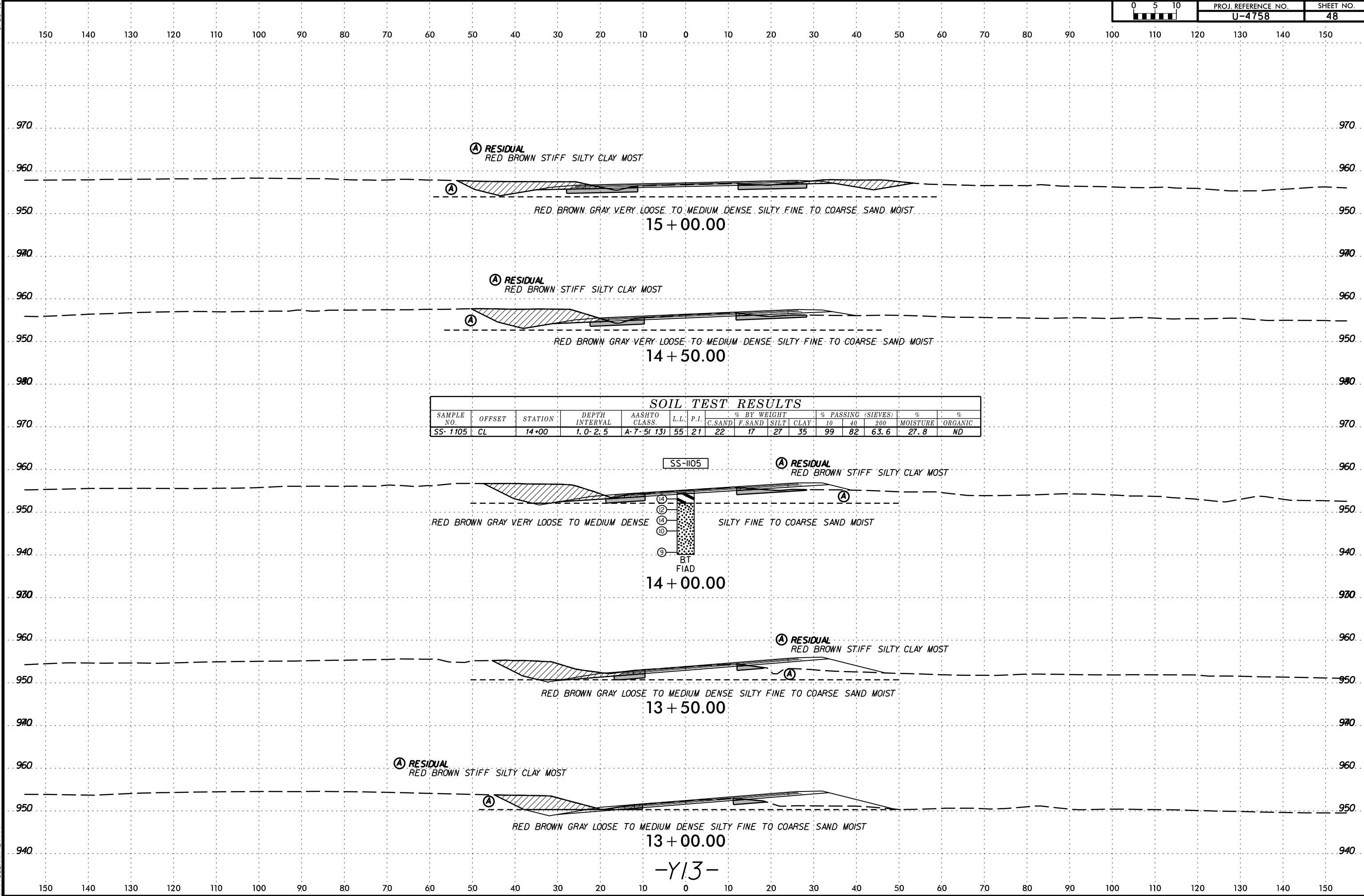


6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
48



6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
49

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

980

970

960

950

970

960

950

980

970

960

950

970

960

950

END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 16+25

END SHALLOW UNDERCUT -L- STA. 16+25

Ⓐ RESIDUAL
RED BROWN STIFF SILTY CLAY MOST

RED BROWN GRAY VERY LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST

16 + 00.00

Ⓐ RESIDUAL
RED BROWN STIFF SILTY CLAY MOST

RED BROWN GRAY VERY LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST

15 + 50.00

-Y13-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SYNTHETIC
CONCRETE
UNDERLAYMENT

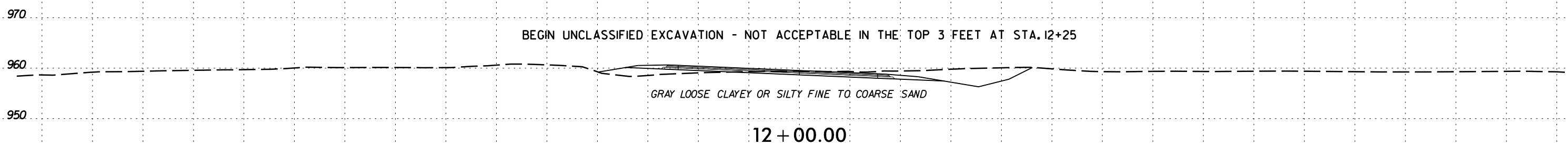
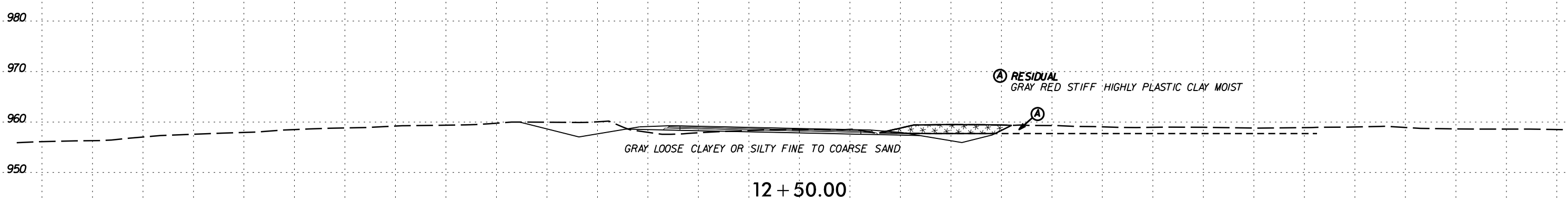
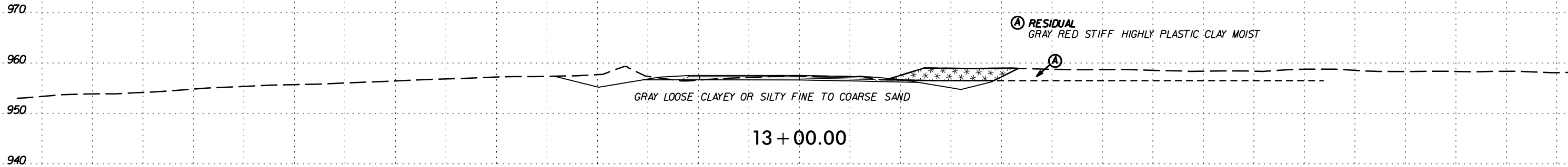
6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
50

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y15-

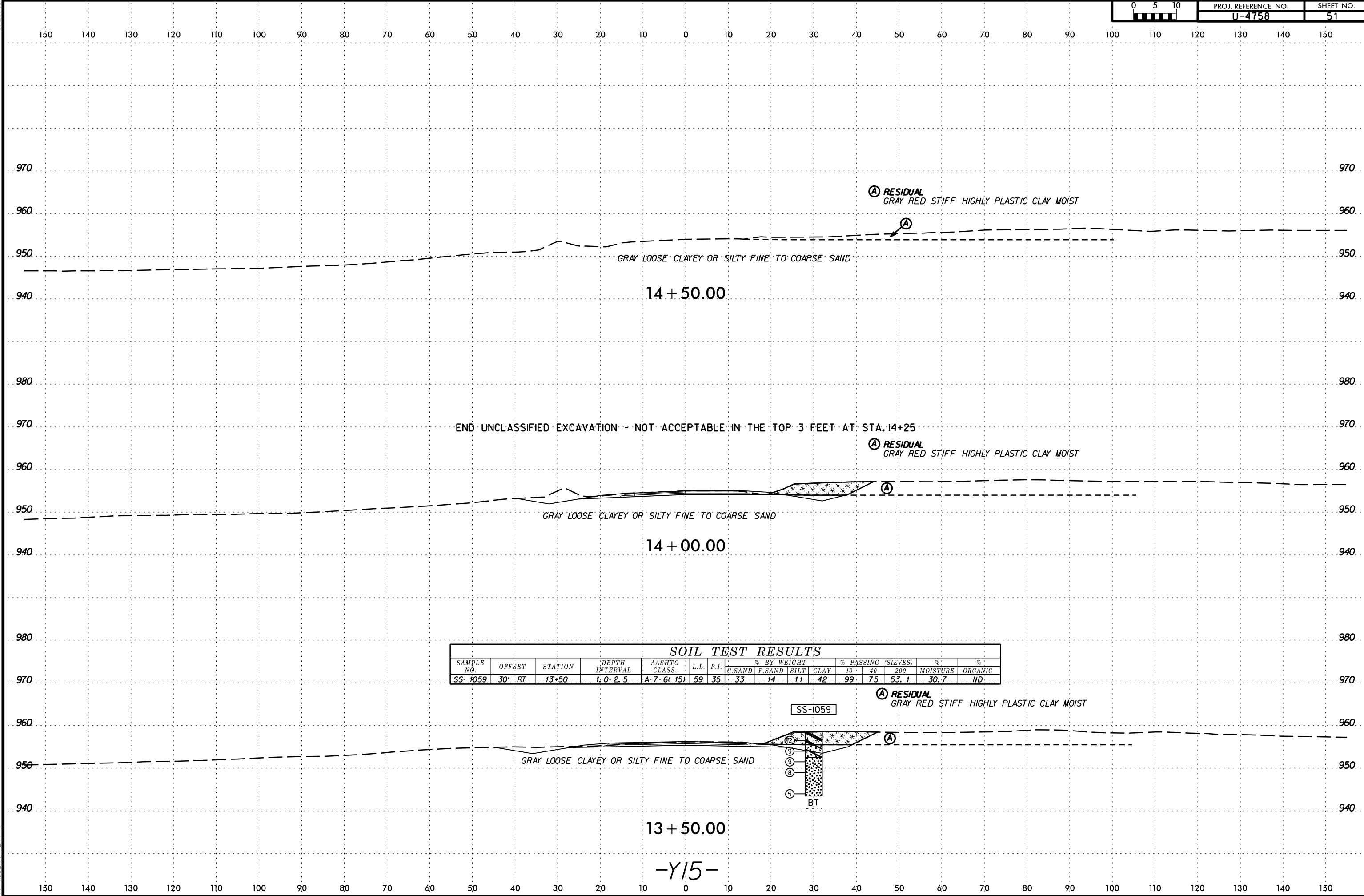
SECTION 12+00 TO 12+50
UNCLASSIFIED EXCAVATION
NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 12+25

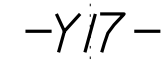
6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
51



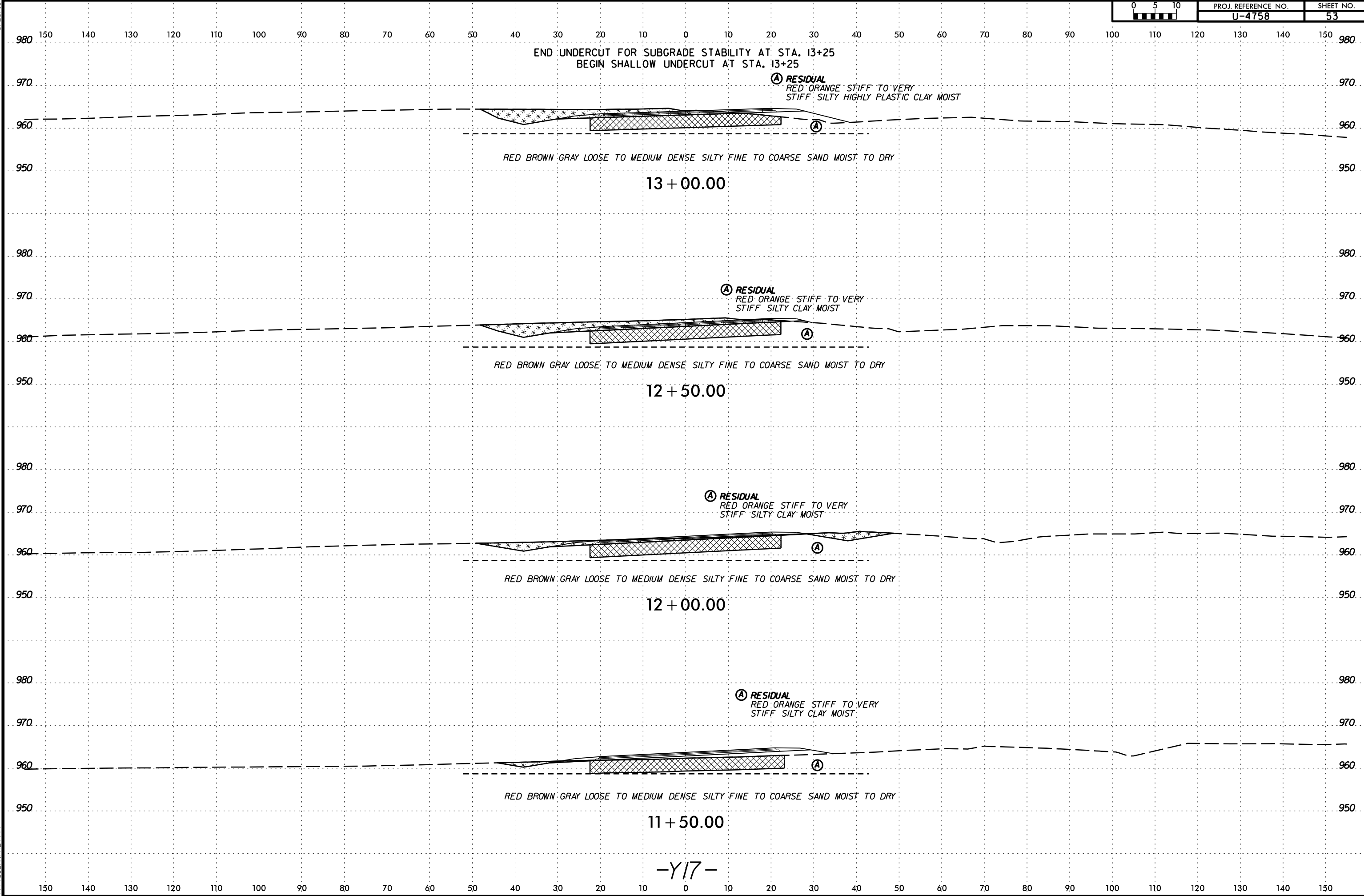


6/23/16



PROJ. REFERENCE NO.
U-4758

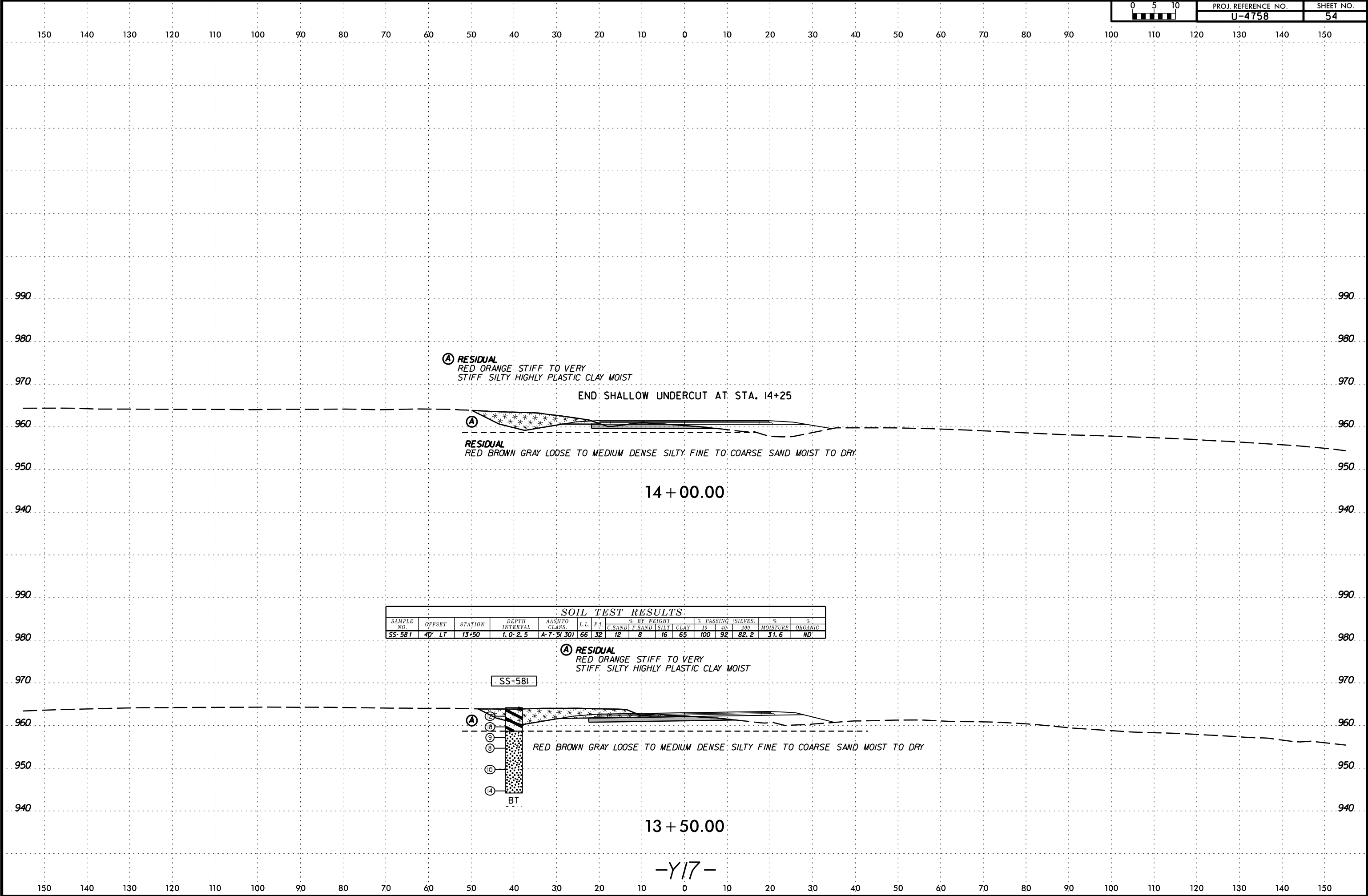
SHEET NO.
53



6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	54





150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

970 970

960 960

950 950

940 940

930 930

980 980

970 970

960 960

950 950

940 940

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

15 + 00.00

14 + 50.00

-Y17-

RESIDUAL
RED ORANGE MEDIUM STIFF TO STIFF SANDY SILT MOIST

RED BROWN GRAY LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST TO DRY

Ⓐ *RESIDUAL*
RED ORANGE STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 14+75

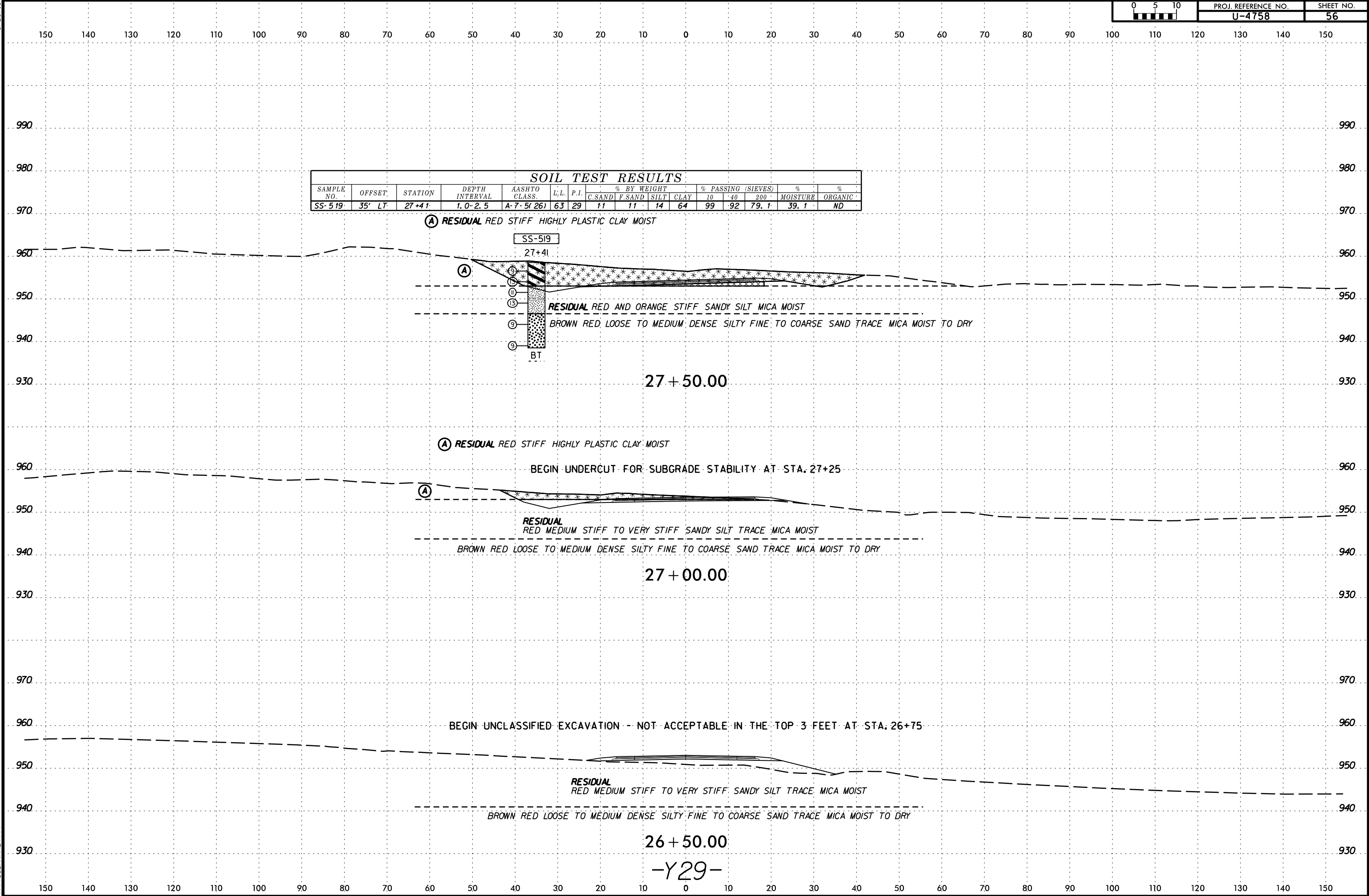
RESIDUAL
RED BROWN GRAY LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND MOIST TO DRY

SECTION 14+50.00 TO 15+00.00
SURFACE

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-4758	56



SOIL TEST RESULTS															
SAMPLE NO.	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-519	35' LT	27+41	1.0-2.5	A-7-5(26)	63	29	11	11	14	64	99	92	79.1	39.1	ND

(A) RESIDUAL RED STIFF HIGHLY PLASTIC CLAY MOIST

SS-519

27+41

(A)

(9)

(9)

(9)

(9)

(9)

(9)

BT

RESIDUAL RED AND ORANGE STIFF SANDY SILT MICA MOIST

BROWN RED LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND TRACE MICA MOIST TO DRY

27 + 50.00

(A) RESIDUAL RED STIFF HIGHLY PLASTIC CLAY MOIST

BEGIN UNDERCUT FOR SUBGRADE STABILITY AT STA. 27+25

(A)

RESIDUAL

RED MEDIUM STIFF TO VERY STIFF SANDY SILT TRACE MICA MOIST

BROWN RED LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND TRACE MICA MOIST TO DRY

27 + 00.00

BEGIN UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 26+75

RESIDUAL

RED MEDIUM STIFF TO VERY STIFF SANDY SILT TRACE MICA MOIST

BROWN RED LOOSE TO MEDIUM DENSE SILTY FINE TO COARSE SAND TRACE MICA MOIST TO DRY

26 + 50.00

-Y29-

SECTION 27+00.00 TO 27+50.00

6/23/16



PROJ. REFERENCE NO.
U-4758

SHEET NO.
57

