

REFERENCE: I-5986B

PROJECT: 47532

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

CROSS SECTIONS

LINE	STATION	SHEETS
-L-	1063+00 - 1070+50	3 - 8
-L-	1076+00 - 1081+00	9 - 14
-L-	1086+00 - 1101+00	15 - 28
-L-	1103+50 - 1107+00	29 - 31
-L-	1109+00 - 1122+00	32 - 43
-L-	1133+00 - 1147+00	44 - 53
-L-	1148+00 - 1152+00	53 - 56
-L-	1157+00 - 1161+00	57 - 60
-L-	1166+00 - 1172+50	61 - 68
-L-	1184+00 - 1190+50	69 - 73
-L-	1196+50 - 1221+00	74 - 90
-L-	1226+00 - 1230+00	91 - 95
-Y16-	11+50 - 18+00	96 - 100
-Y16-	40+00 - 44+00	101 - 103
-Y16RPA-	18+43.96 - 25+50	104 - 108
-Y16RPB-	15+10 - 20+00	109 - 112
-Y16RPC-	15+91.71 - 17+43.50	113
-Y17-	13+50 - 20+00	114 - 118
-Y17-	33+50 - 40+50	118 - 122
-Y17RPA-	15+14 - 21+50	123 - 127
-Y17RPB-	26+00 - 27+50	128 - 129
-Y17RPD-	14+85.50 - 18+00	130 - 132
-Y26-	24+50 - 28+50	133 - 135
-SR13-	44+00 - 44+50	136
-SR15-	14+50 - 18+50	137 - 139
-SR15-	38+71.05 - 57+71.05	139 - 151
-SR15-	68+21.05 - 72+21.59	151 - 154
-SR15-	77+25.55 - 79+27.14	154 - 155
-SR15-	88+84.68 - 90+86.32	156 - 157
-SR16-	12+00 - 15+00	158 - 159
-SR16-	61+50 - 85+50	160 - 173
-SR17-	13+00 - 28+74.60	174 - 183
-SR17-	30+60 - 34+86.16	184 - 187

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

ROADWAY
SUBSURFACE INVESTIGATION

COUNTY CUMBERLAND, HARNETT, AND JOHNSTON
PROJECT DESCRIPTION IMPROVE I-95 INTERCHANGES
AT SR 1811 (BUD HAWKINS ROAD) (EXIT 70) AND
SR 1002 (LONG BRANCH ROAD) (EXIT 71)
SITE DESCRIPTION SECTION 3 of 4; I-5883 PORTION,
-L- STATION 1063+00 TO 1232+00

RECOMMENDATIONS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5986B	1	187

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 TOTT-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:
1. 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.
 2. 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	PERSONNEL
<u>E. BLONSHINE</u>	<u>T. WILLIAMS</u>
<u>G. GOSLIN</u>	<u>J. MARLOW</u>
<u>A. BHUIYAN</u>	<u>T. HILL</u>
<u>M. HAYES</u>	<u>E. ARGABRIGHT</u>
<u>M. STEPHENSON</u>	<u>C. CHANDLER</u>
<u>J. SWARTLEY</u>	<u>S. MITCHELL</u>
<u>J. WHITE</u>	<u>S. HARDEE</u>

INVESTIGATED BY S&ME, INC.
DRAWN BY C. CHANDLER
CHECKED BY S. MITCHELL
SUBMITTED BY S. LANEY
DATE DECEMBER 2019



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



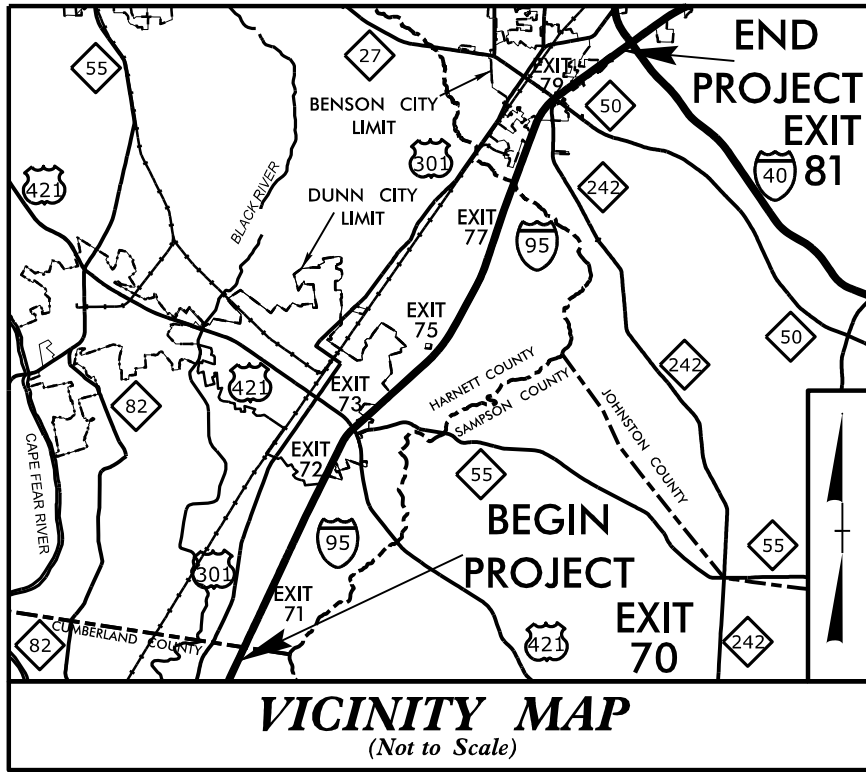
DocuSigned by:
Stacie Mitchell 12/2/2019
BBC611B64F19458...
SIGNATURE DATE

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

09/08/19
 CONTRACT: I-5986B
 \$\$\$SYTIME\$\$\$\$\$
 \$\$\$DGN\$\$\$\$\$
 \$\$\$SERNAME\$\$\$\$\$

TIP PROJECT: I-5986B

CONTRACT: I-5986B



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

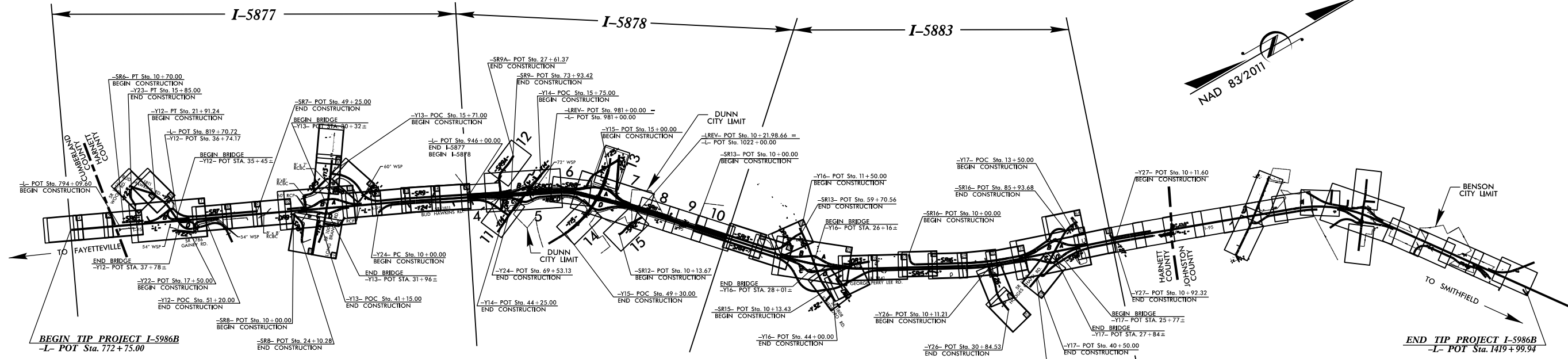
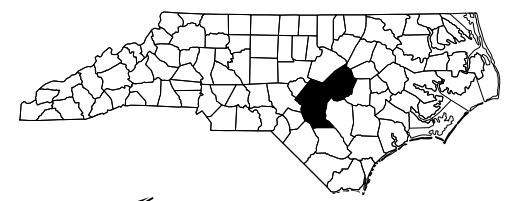
CUMBERLAND, HARNETT, AND JOHNSTON COUNTIES

**LOCATION: I-95 FROM SR 1811 (BUD HAWKINS ROAD) (EXIT 70)
TO I-40 (EXIT 81). WIDEN TO EIGHT LANES.**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, SIGNALS, CULVERTS,
AND STRUCTURES**

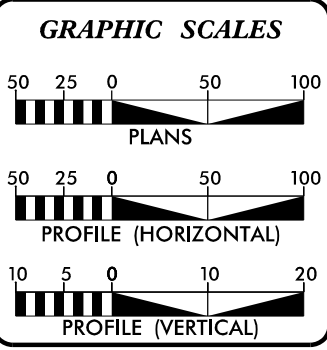
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5986B	3	95
PROJ. REFERENCE NO.	STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
I-5986B	47532.1.3		PE
I-5986B	47532.2.3		R/W
I-5877	53077.1.1	NHPP-0095(032)69	PE
I-5877	53077.1.2		PE
I-5877	53077.2.1		R/W
I-5877	53077.2.2		UTIL
I-5878	53078.1.1	NHPP-0095(007)73	PE
I-5878	53078.1.2		PE
I-5878	53078.2.1		R/W
I-5878	53078.2.2	NHPP-0095(017)73	R/W
I-5883	53083.1.1	NHPP-0095(033)74	PE
I-5883	53083.1.2		PE
I-5883	53083.2.1		R/W
I-5883	53083.2.2	NHPP-0095(033)74	R/W

25% PLANS (I-5878 Section)



- NOTES:**
- THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
 - CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
 - THIS PROJECT IS WITHIN DUNN AND BENSON MUNICIPAL BOUNDARIES.
 - DESIGN EXCEPTION REQUIRED FOR HORIZONTAL ALIGNMENT AND HORIZONTAL STOPPING SIGHT DISTANCE ON SR 1811 (BUD HAWKINS ROAD) AND SR 1785 (ELM ST. EXT.). (SEE PLAN SHEETS 7, 12 & 13)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2020 =	58,900
ADT 2040 =	75,700
K =	7 %
D =	55 %
T =	24 % *
V =	70 MPH
* (17% TTST + 7% DUALS)	
FUNC CLASS =	INTERSTATE
STATEWIDE TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I 5986B =	11.865 MILES
LENGTH STRUCTURE TIP PROJECT I-5986B =	0.020 MILES
TOTAL LENGTH TIP PROJECT I-5986B =	11.885 MILES

Prepared in the Office of:
Michael Baker
Michael Baker Engineering, Inc.
8000 Regency Parkway, Suite 600
Cary, NC 27518
Professional Corporation License Number:
F-1084

FOR DIVISION OF HIGHWAYS

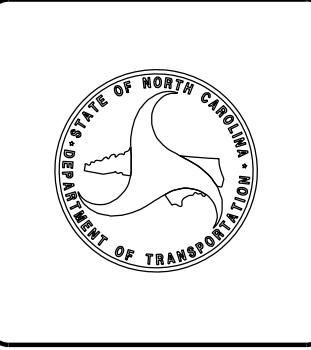
2018 STANDARD SPECIFICATIONS	SUSAN C. LANCASTER, P.E. PROJECT ENGINEER
RIGHT OF WAY DATE: MAY 1, 2019	CURTIS TILLMAN, P.E. PROJECT DESIGN ENGINEER
LETTING DATE: JULY 21, 2020	STEVE D. KENDALL, P.E. NCDOT CONTACT

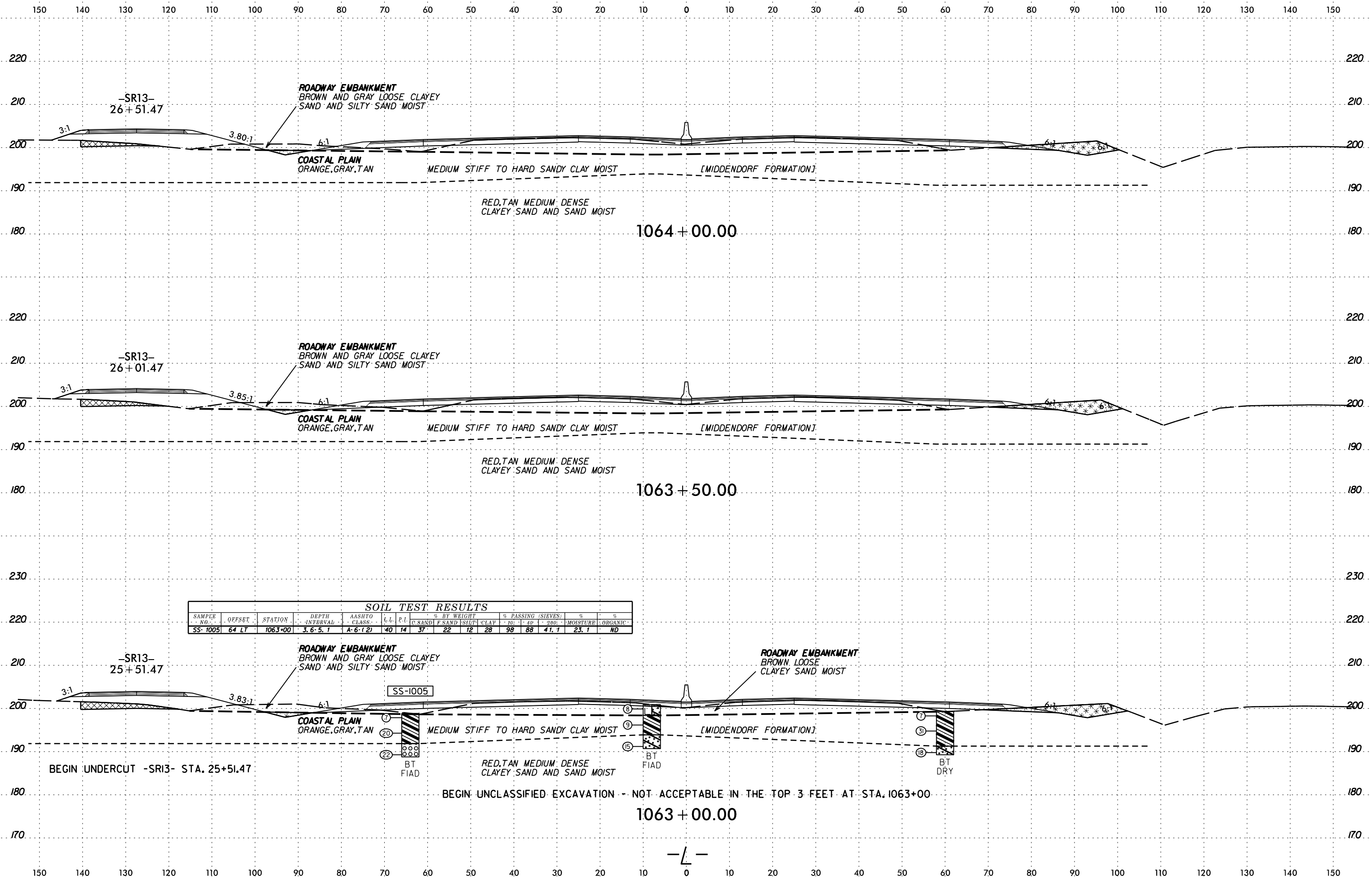
HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.





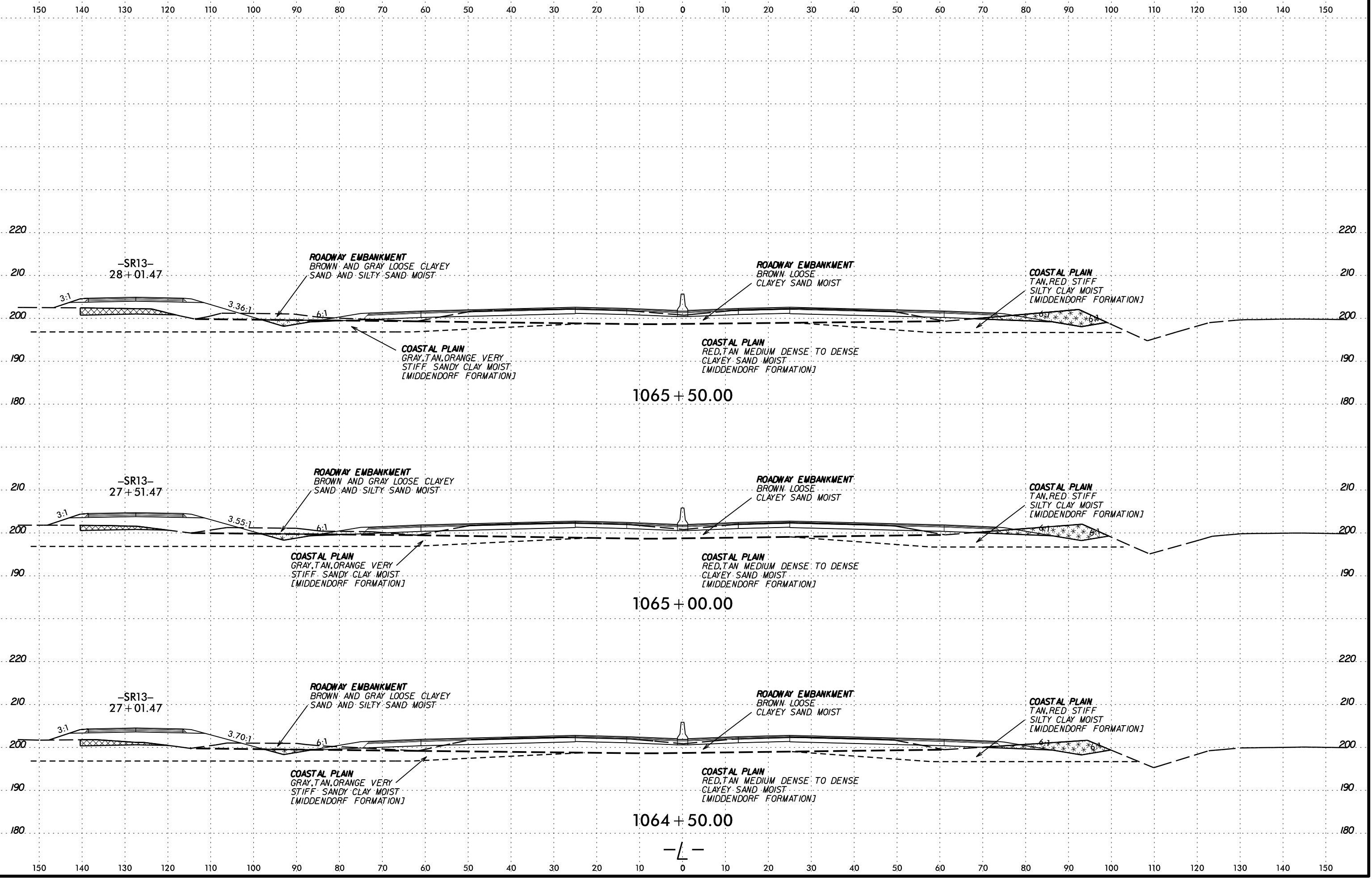
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.L.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	ORGANIC	
							C SAND	F SAND	SILT	CLAY	#10	#40			#200
SS-1005	64 LT	1063+00	3.6-5.1	A-6-(2)	40	14	37	22	12	28	98	88	41.1	23.1	ND

BEGIN UNDERCUT -SR13- STA. 25+51.47

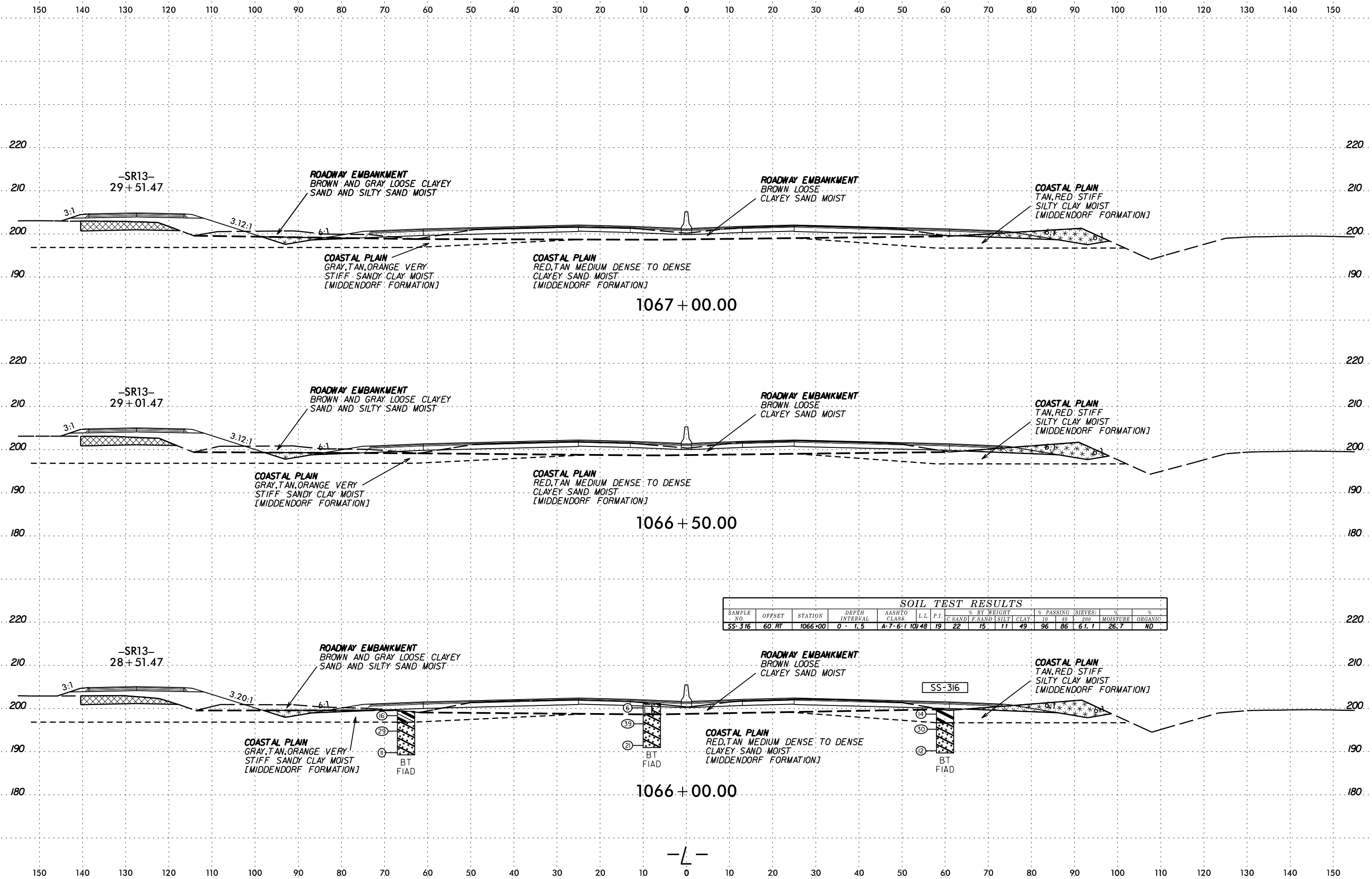
BEGIN UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 1063+00

6/23/16



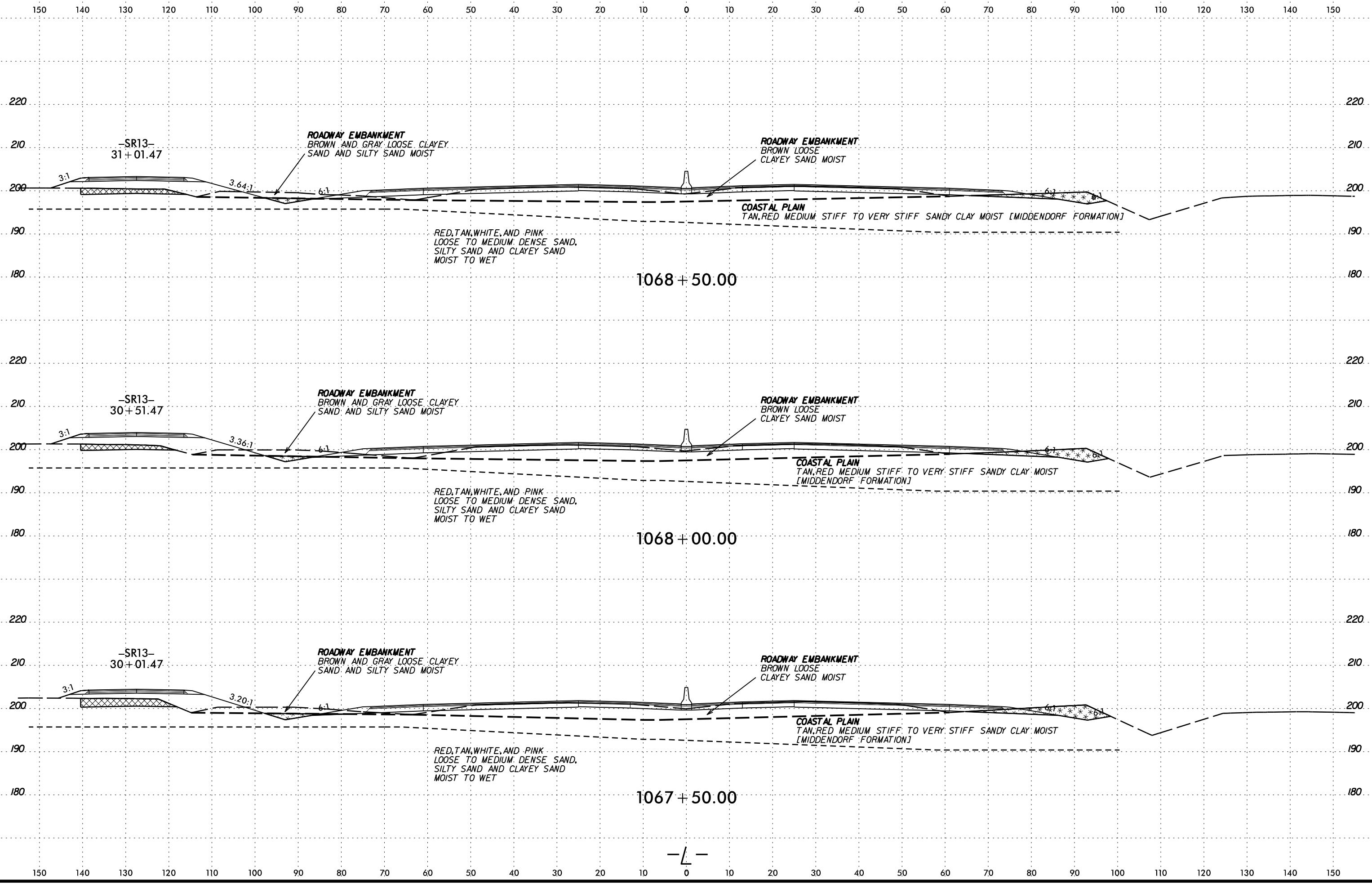
SECTION CUTS TO BE MADE AT THE LOCATION OF THE ROADWAY EMBANKMENT

-L-



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			
SS-316	60' RT	1066+00	0 - 1.5	A-7-6 (10)	48	19	22	15	11	49	96	86	61.1	26.7	ND

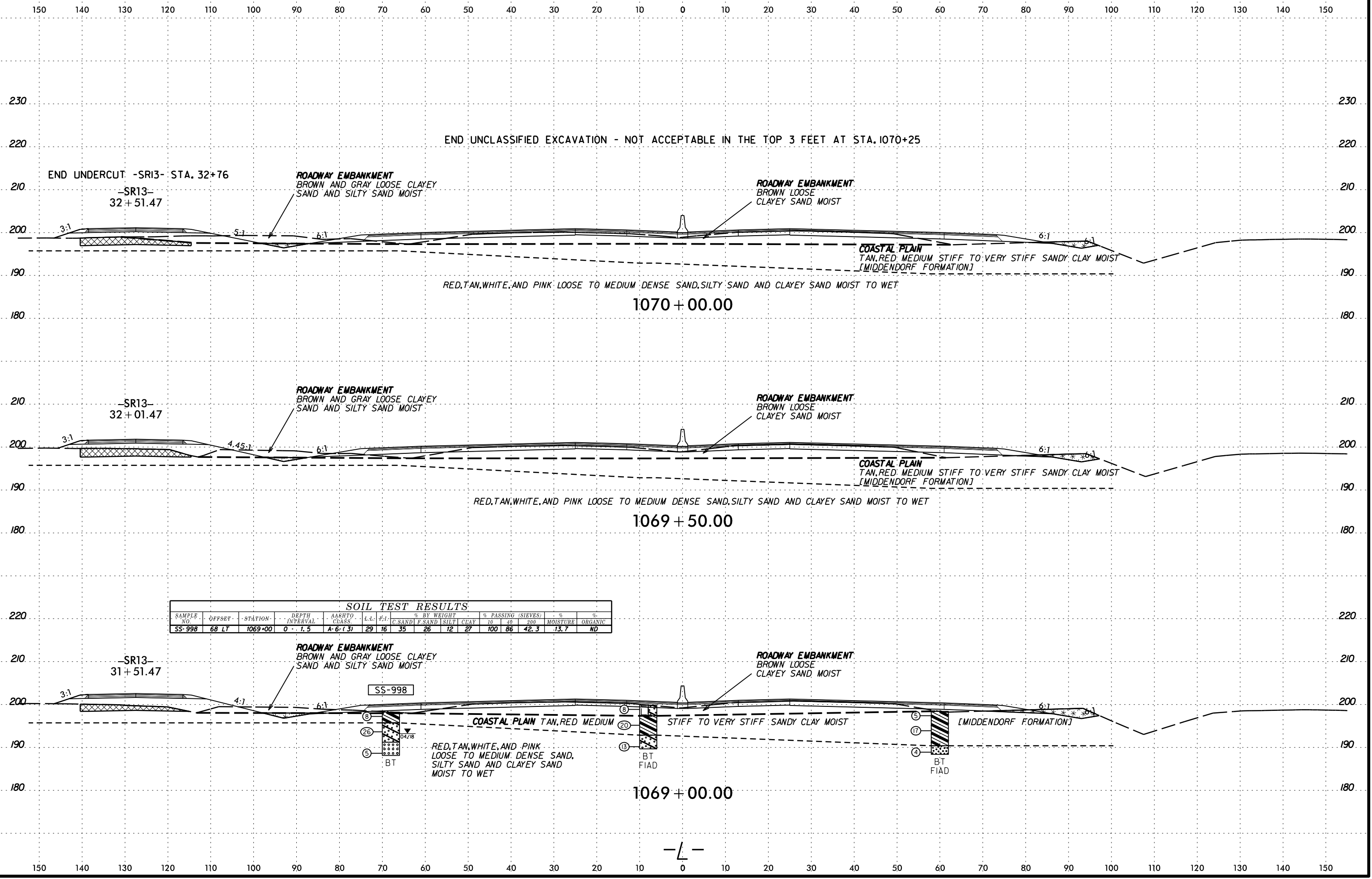
DATE PLOTTED: 6/23/16



SECTION 30+01.47

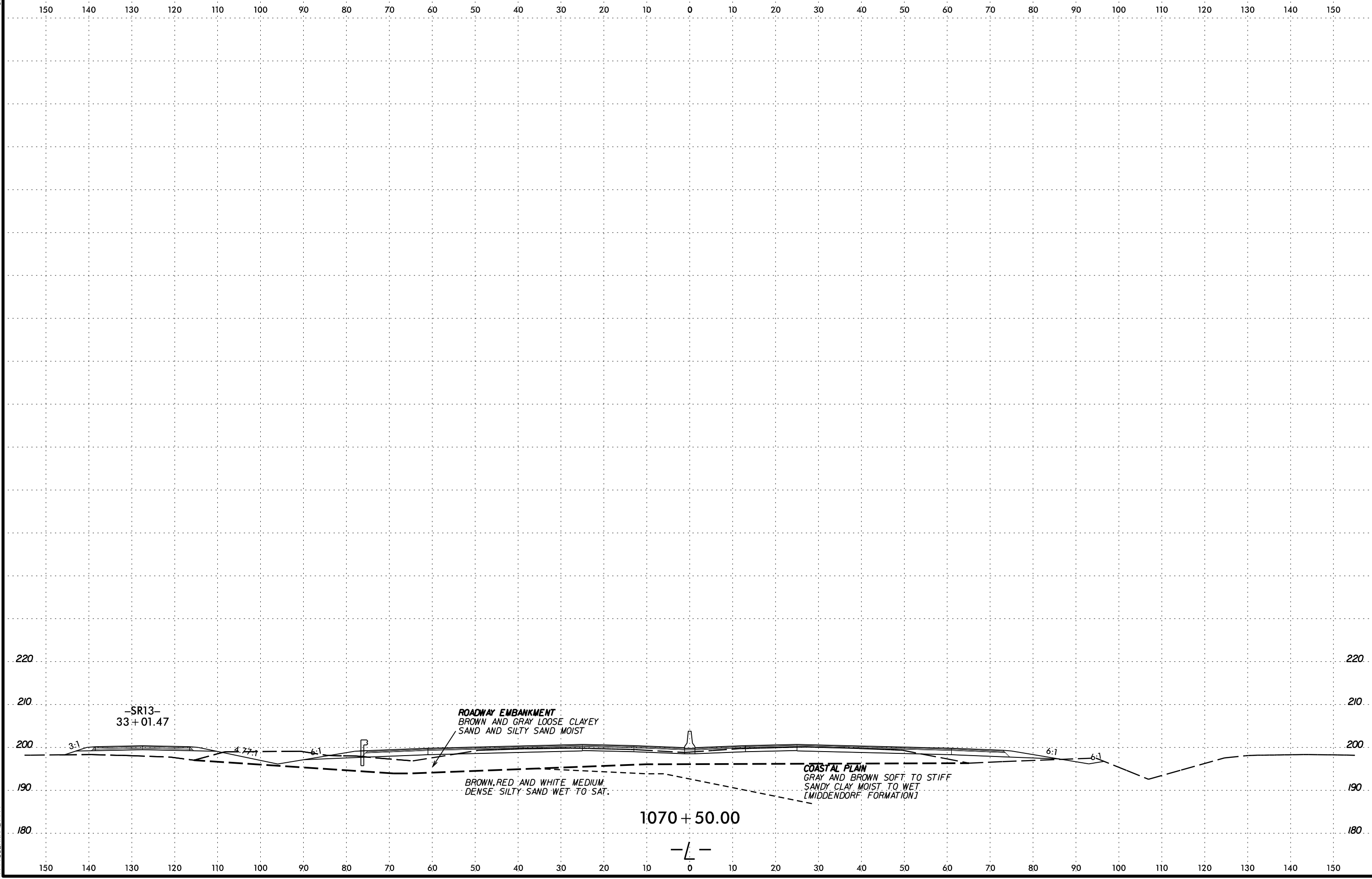
—L—

6/23/16

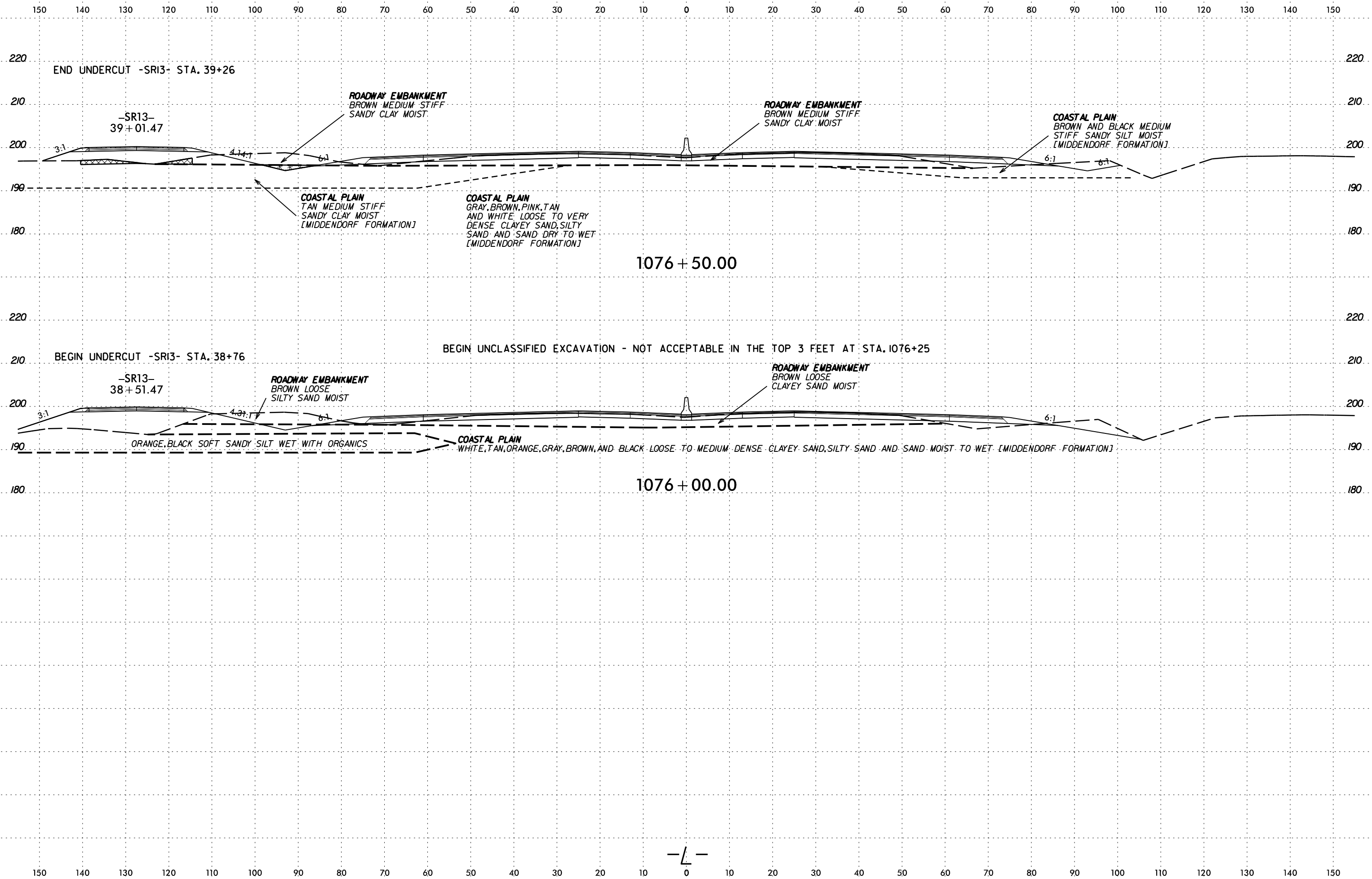


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C SAND	F SAND	SILT	CLAY	10	40	200		
SS-998	68 LT	1069+00	0 - 1.5	A-6 (3)	29	16	35	26	12	27	100	86	42.3	13.7	ND

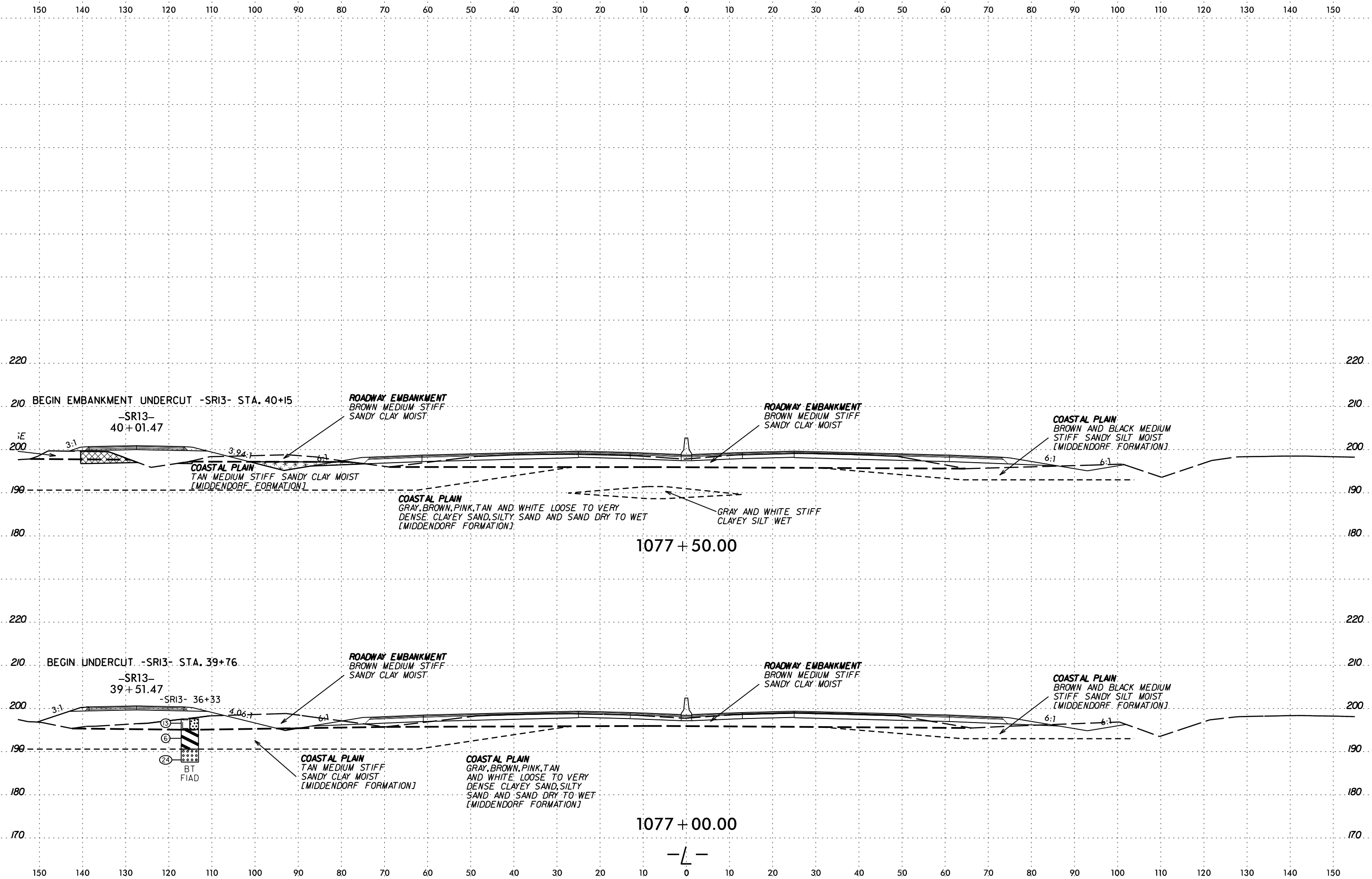
6/23/16



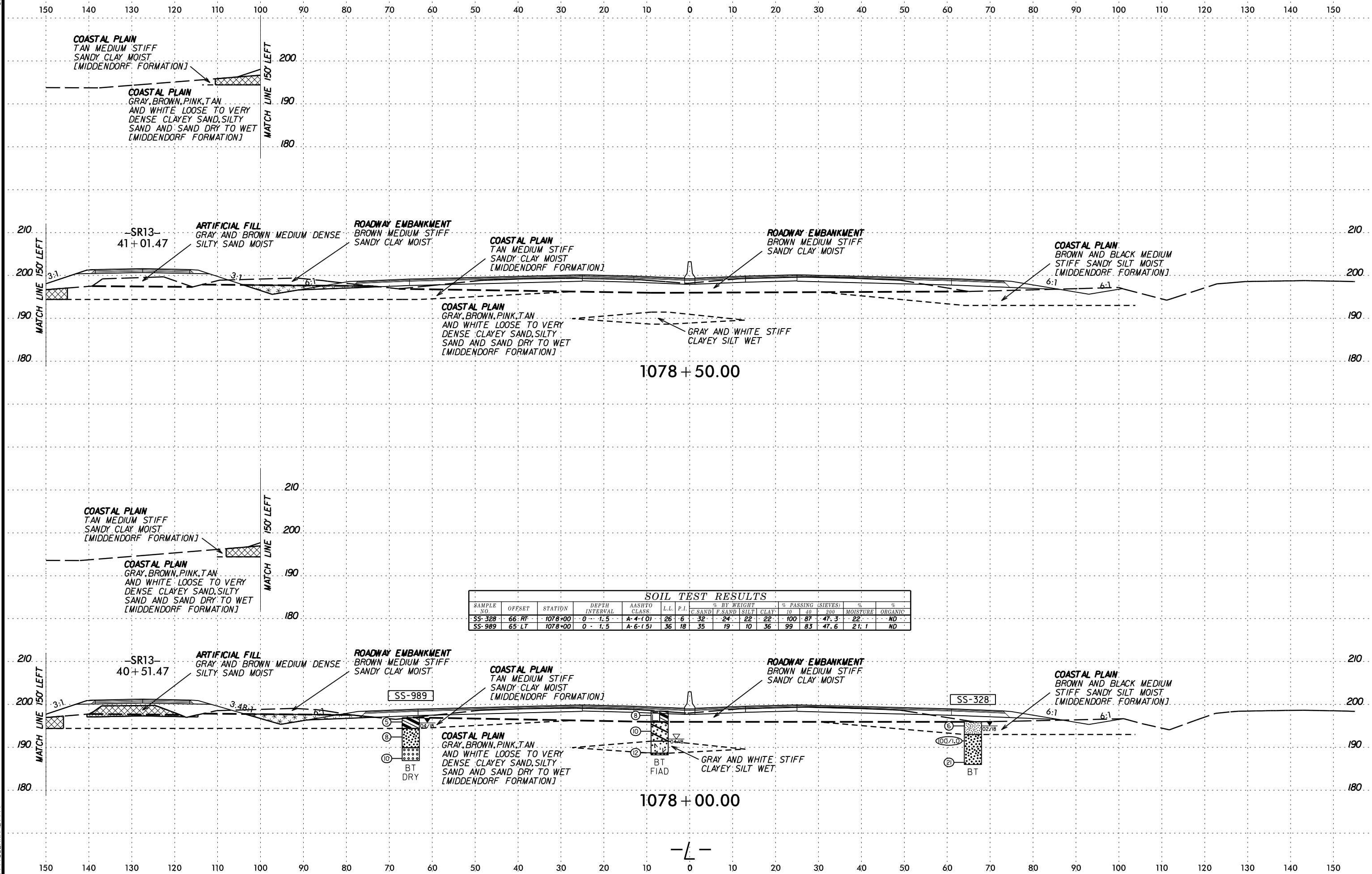
SECTION
CON
D
S
U
R
V
E
R
S
H
E
E
N
O
.



DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN
SHEET NO.: 9



SECTION CUT CONC. CURB
6" HIGH
BT FIAD
6" HIGH
24" HIGH

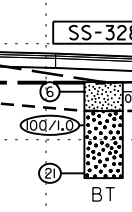
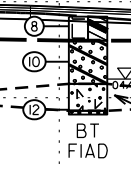
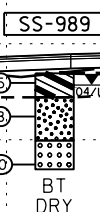


1078 + 50.00

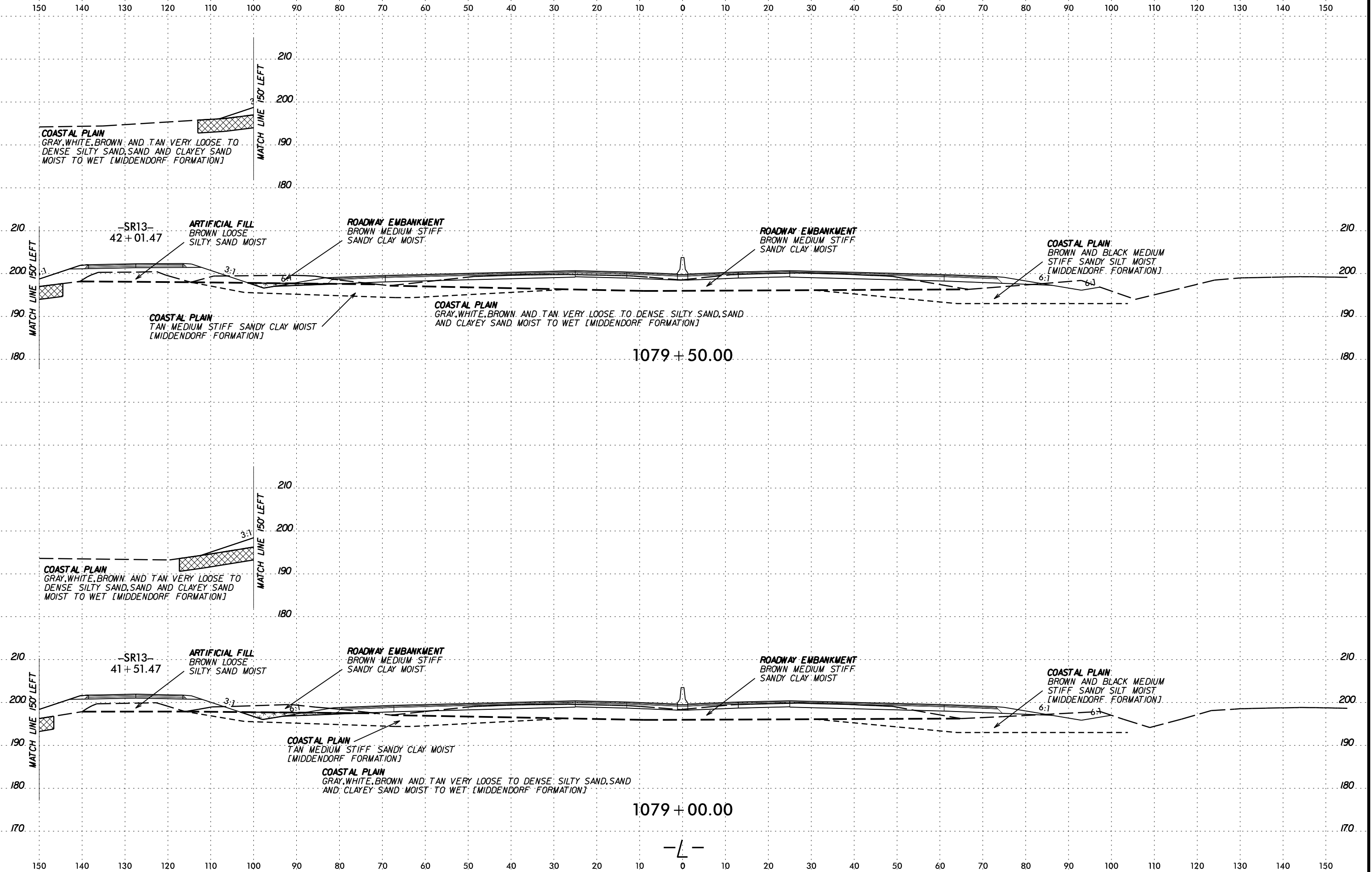
1078 + 00.00

SOIL TEST RESULTS

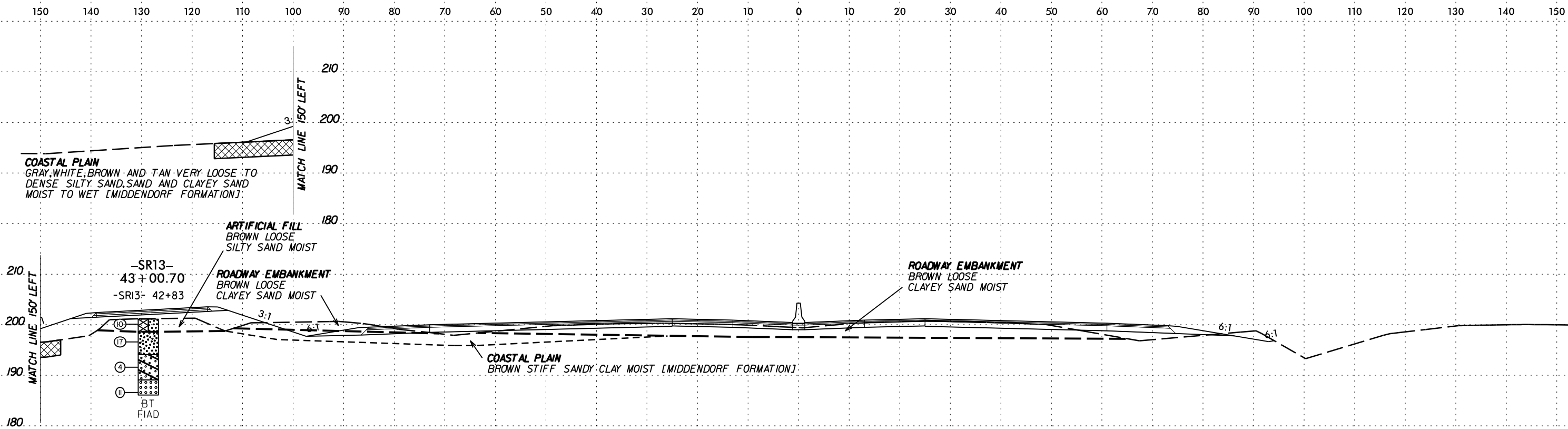
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40		
SS-328	66 RT	1078+00	0 - 1.5	A-4 (10)	26	6	32	24	22	100	87	47.3	22	ND
SS-989	65 LT	1078+00	0 - 1.5	A-6 (15)	36	18	35	19	10	99	83	47.6	21.1	ND



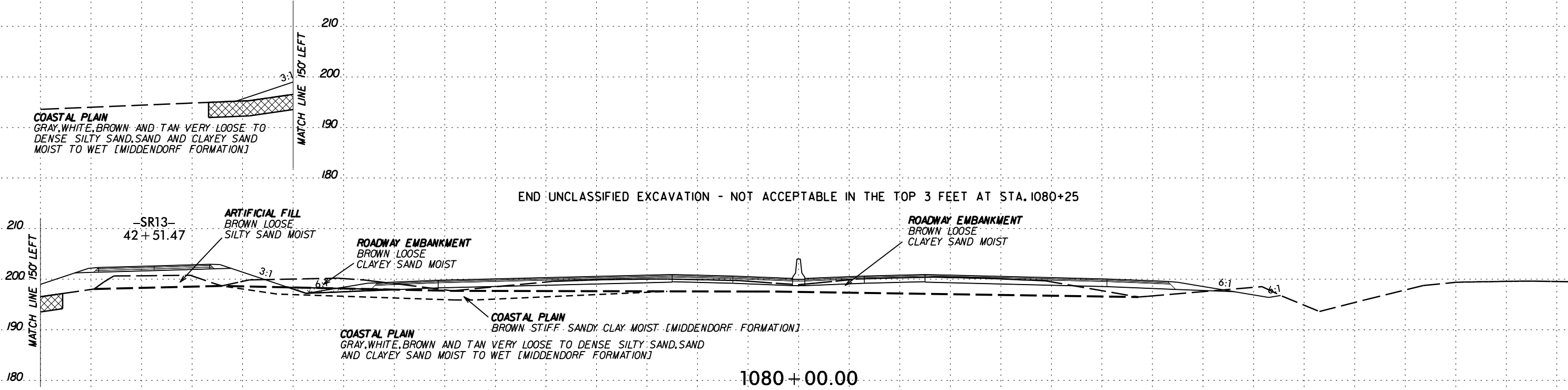
SYSTEMS & DESIGN
 ENGINEERING & ARCHITECTURE



SYSTEMS DOWN



1080 + 50.00

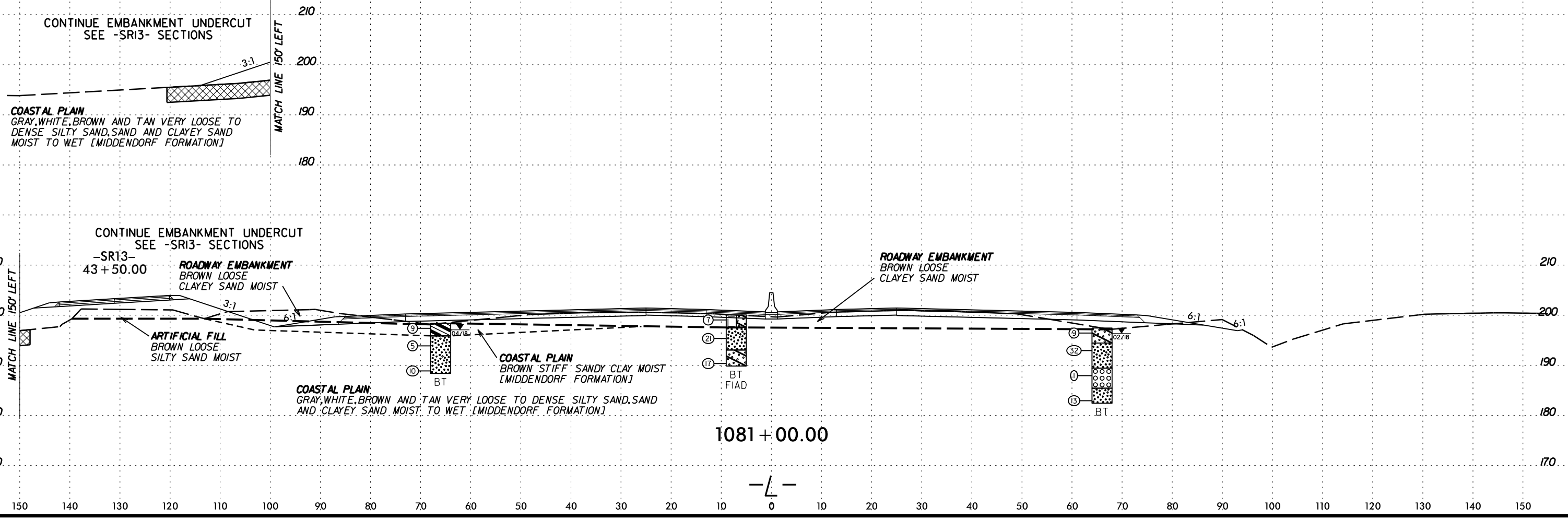


1080 + 00.00

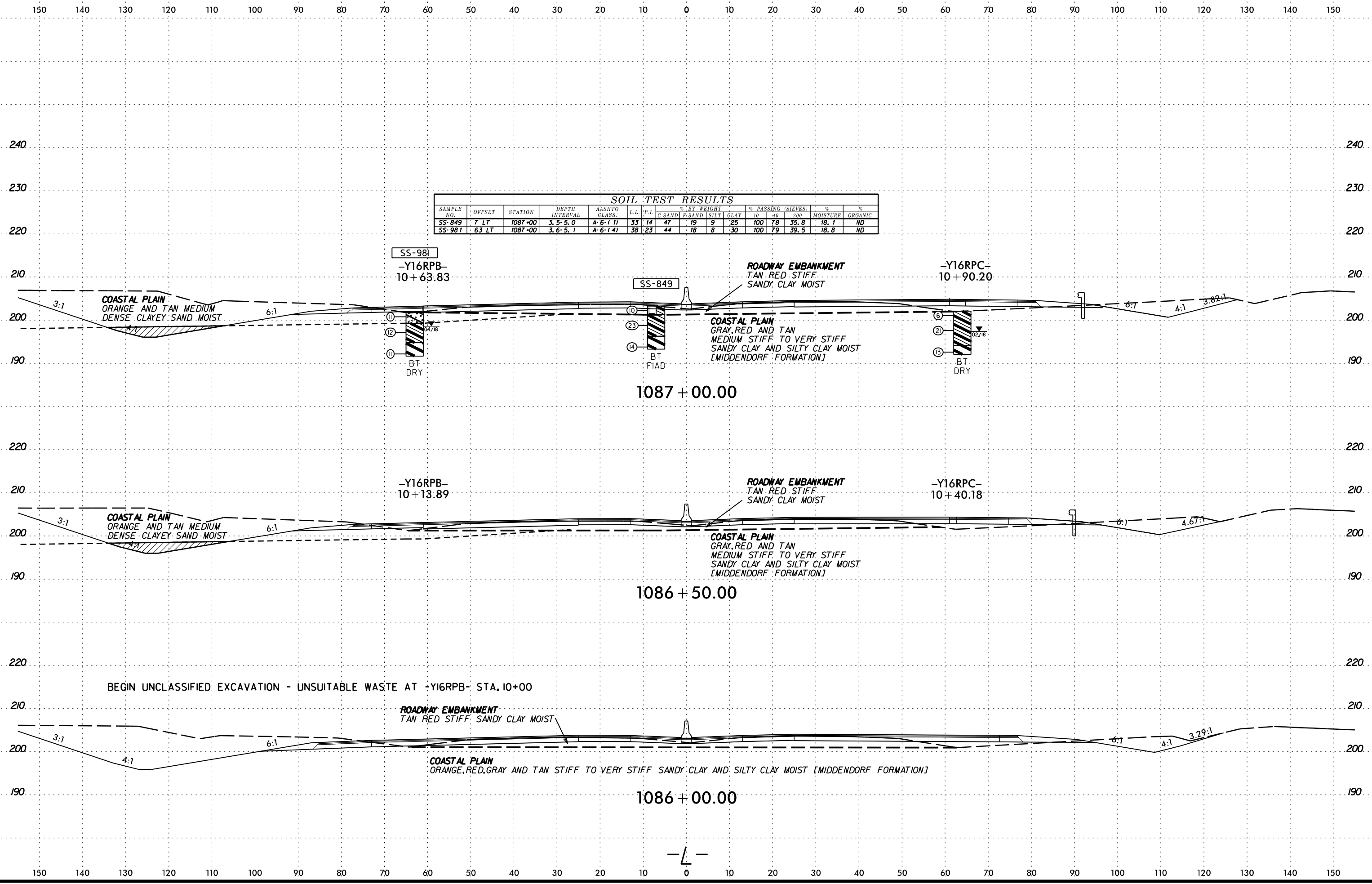


SYTIME: 6/23/16 10:10 AM

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

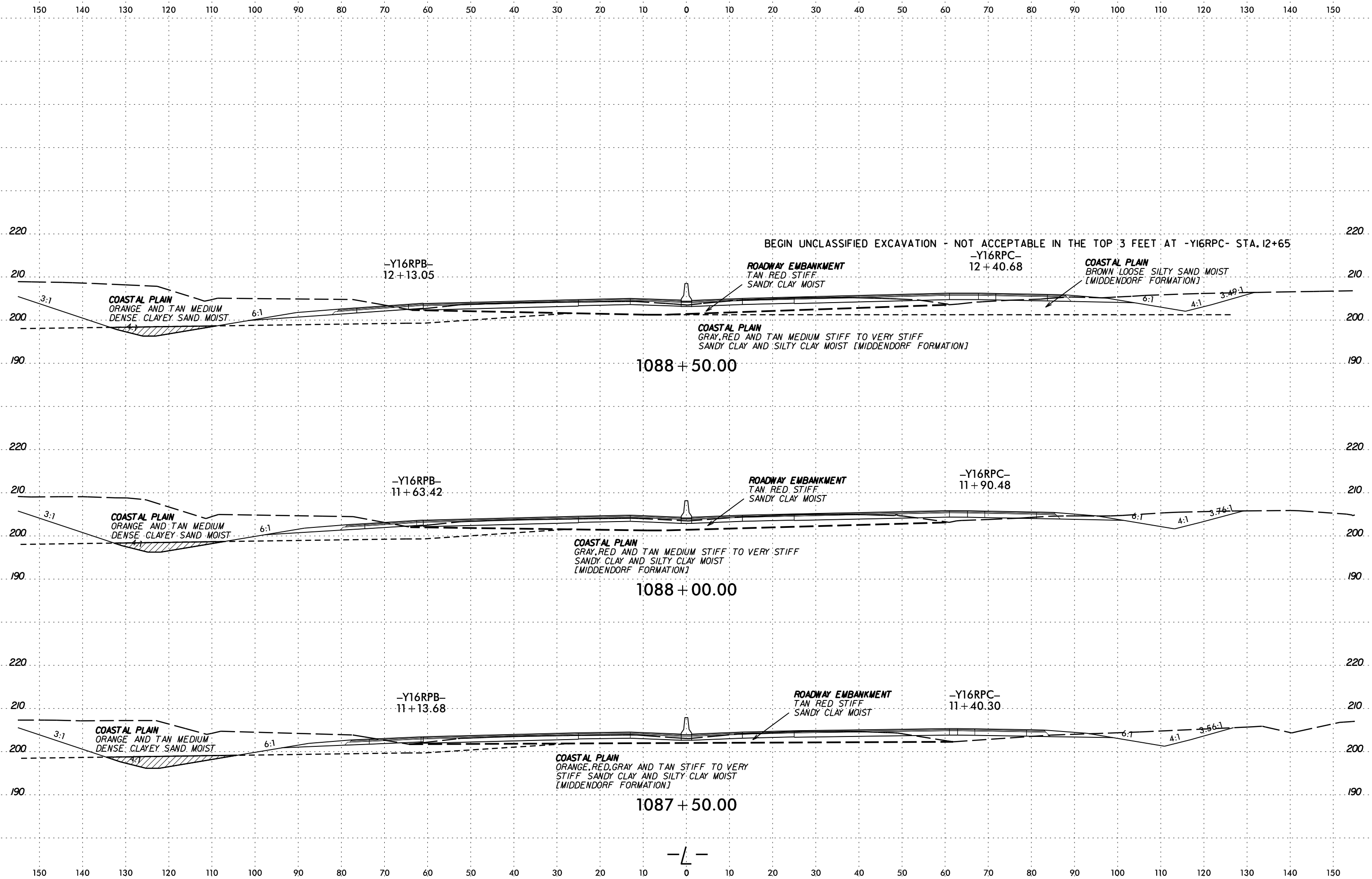


SYTIME
CON
LE
JUL
ARR
NAME



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-849	7 LT	1087+00	3.5-5.0	A-6-(1)	33	14	47	19	9	25	100	78	35.8	18.1	ND
SS-981	63 LT	1087+00	3.6-5.1	A-6-(1)	38	23	44	18	8	30	100	79	39.5	18.8	ND

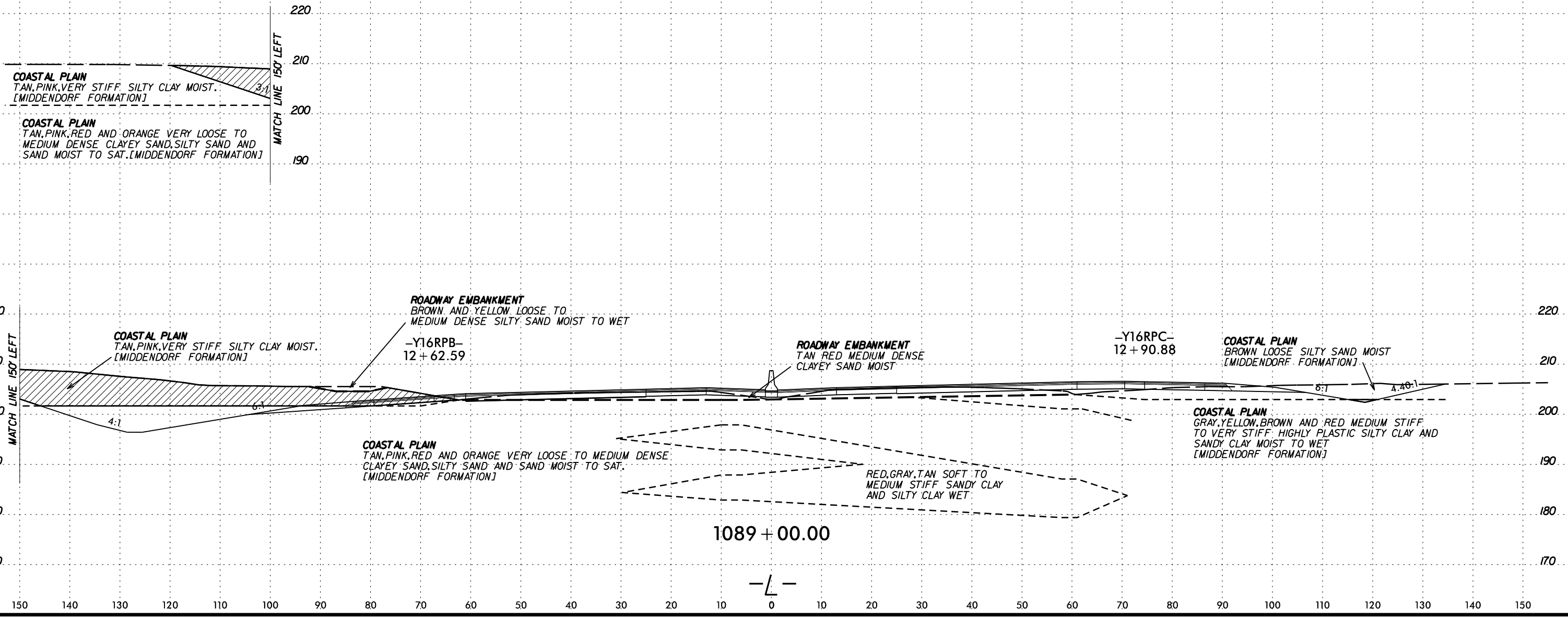
BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT -Y16RPB- STA. 10+00



DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN



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



SECTION
CON
D
N
S
C
O
N
T
A
I
N
S
A
L
L
I
N
F
O
R
M
A
T
I
O
N
R
E
L
A
T
E
D
T
O
T
H
E
S
E
S
H
E
E
T
S

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

MATCH LINE 150' LEFT
220
210
200
190

COASTAL PLAIN
TAN, PINK, VERY STIFF SILTY CLAY MOIST.
[MIDDENDORF FORMATION]

COASTAL PLAIN
TAN, PINK, RED AND ORANGE
VERY LOOSE TO MEDIUM DENSE
CLAYEY SAND, SILTY SAND AND SAND
MOIST TO SAT.
[MIDDENDORF FORMATION]

3:1

COASTAL PLAIN
TAN, PINK, VERY STIFF SILTY CLAY MOIST.
[MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
BROWN AND YELLOW LOOSE TO
MEDIUM DENSE SILTY SAND MOIST TO WET
-Y16RPB-
13+11.97

ROADWAY EMBANKMENT
TAN RED MEDIUM DENSE
CLAYEY SAND MOIST

-Y16RPC-
13+41.05

COASTAL PLAIN
BROWN LOOSE SILTY SAND MOIST
[MIDDENDORF FORMATION]

6:1

6:1

4.2:1

COASTAL PLAIN
TAN, PINK, RED AND ORANGE
VERY LOOSE TO MEDIUM DENSE
CLAYEY SAND, SILTY SAND AND SAND
MOIST TO SAT.
[MIDDENDORF FORMATION]

RED, GRAY, TAN SOFT TO
MEDIUM STIFF SANDY CLAY
AND SILTY CLAY WET

COASTAL PLAIN
GRAY, YELLOW, BROWN AND RED MEDIUM STIFF
TO VERY STIFF, HIGHLY PLASTIC SILTY CLAY AND
SANDY CLAY MOIST TO WET
[MIDDENDORF FORMATION]

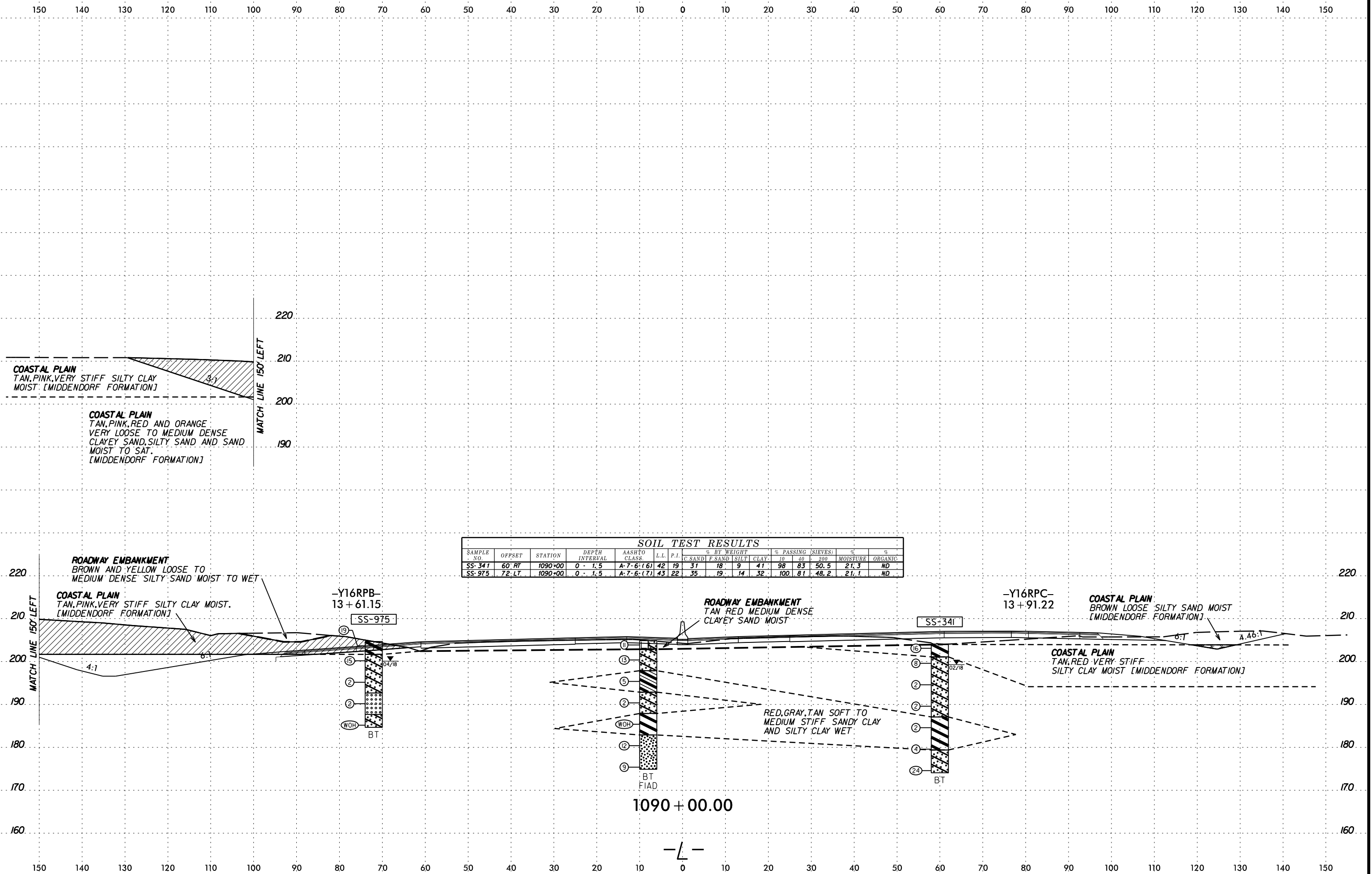
1089 + 50.00

-L-

DATE TIME DRAWN CHECKED BY
6/23/16 10:00 AM JLD/RS

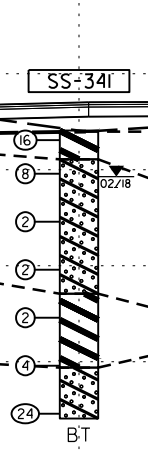
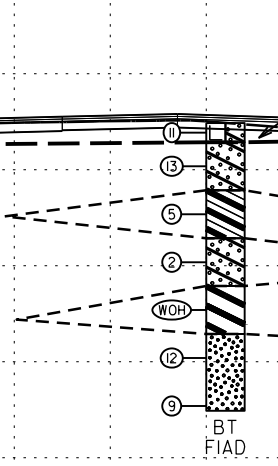
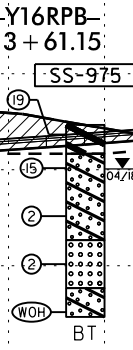
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16



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-341	60 RT	1090+00	0 - 1.5	A-7-6 (6)	42	19	31	18	9	41	98	83	50.5	21.3	ND
SS-975	72 LT	1090+00	0 - 1.5	A-7-6 (7)	43	22	35	19	14	32	100	81	48.2	21.1	ND



1090 + 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

(A) COASTAL PLAIN
 RED, YELLOW, TAN AND BROWN MEDIUM STIFF TO HARD HIGHLY PLASTIC SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

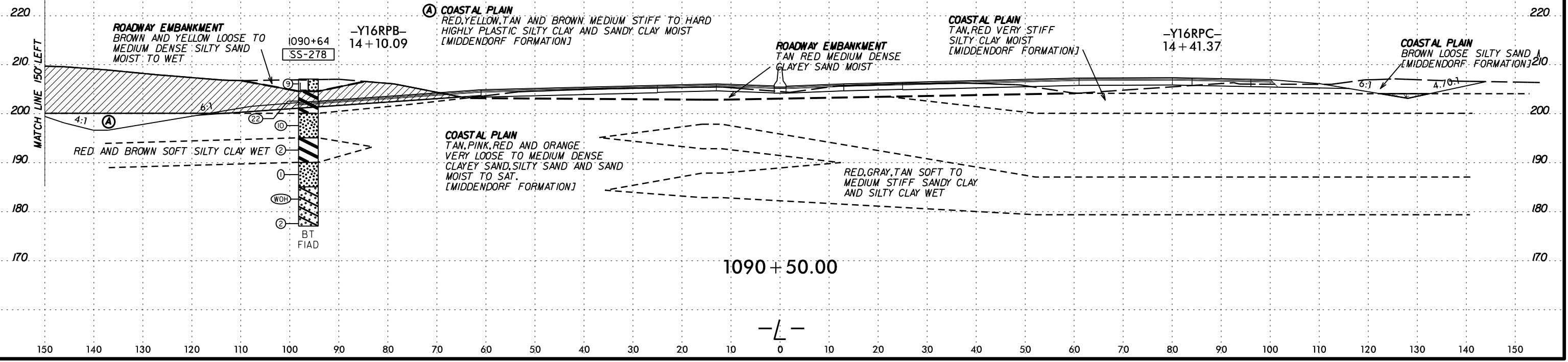
COASTAL PLAIN
 TAN, PINK, RED AND ORANGE VERY LOOSE TO MEDIUM DENSE CLAYEY SAND, SILTY SAND AND SAND MOIST TO SAT. [MIDDENDORF FORMATION]

220
 210
 200
 190

MATCH LINE 150' LEFT

SOIL TEST RESULTS

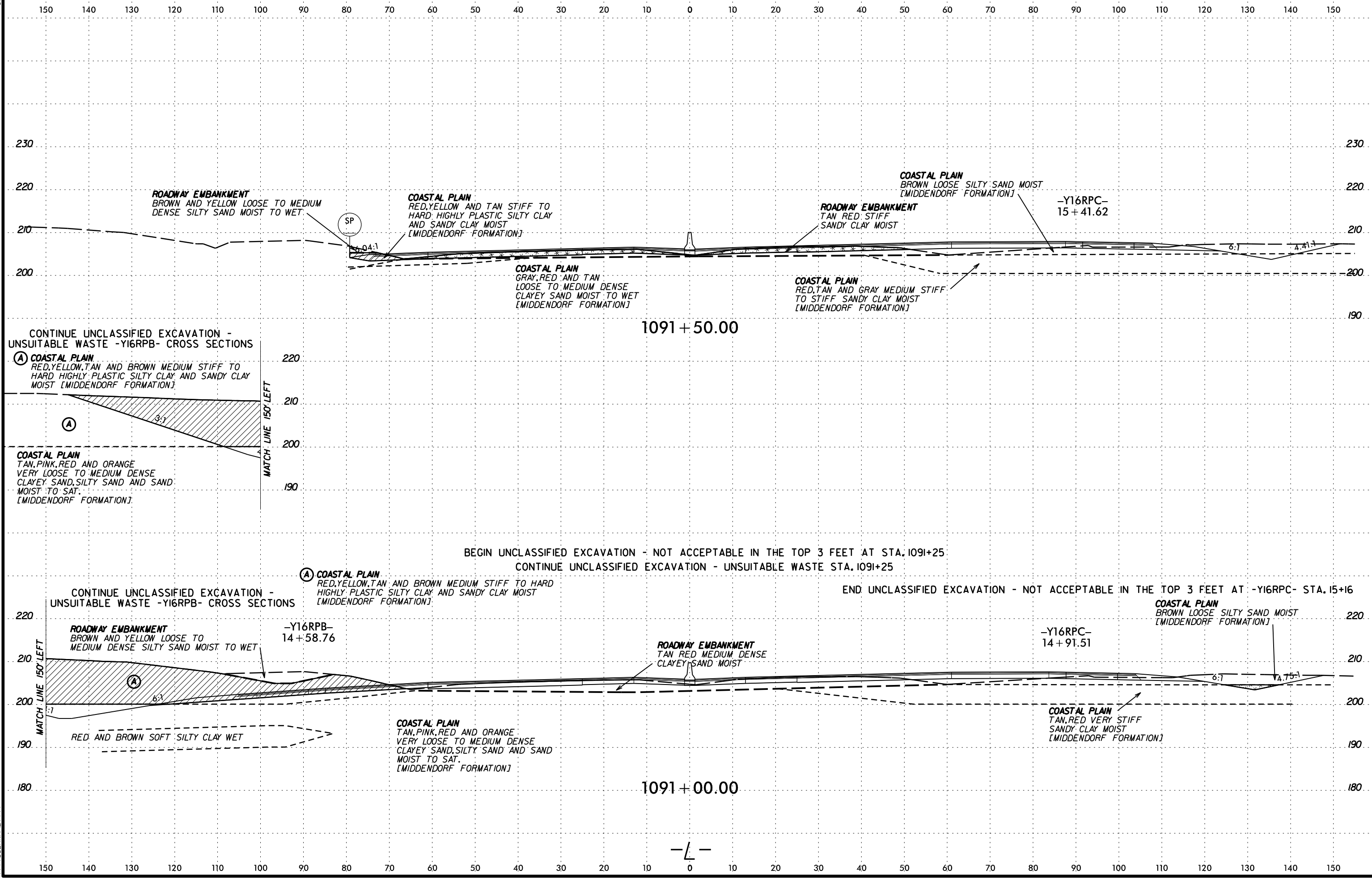
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							G. SAND	F. SAND	SILT	CLAY	#10	#40	#200		
SS-278	96' LT.	1090+64	3.5'-5.0'	A-7.5-112	57	26	31	17	5	47	100	86	54.4	26.8	ND



SCHEMATIC
 SECTION
 CONSTRUCTION
 OF
 THE
 ROADWAY
 THROUGH
 THE
 MIDDENDORF
 FORMATION

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



SECTION 150' LEFT

MATCH LINE 150' LEFT

1091 + 50.00

1091 + 00.00

BEGIN UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 1091+25
CONTINUE UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE STA. 1091+25

END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT -Y16RPC- STA. 15+16

CONTINUE UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -Y16RPB- CROSS SECTIONS
A COASTAL PLAIN
RED, YELLOW, TAN AND BROWN MEDIUM STIFF TO HARD HIGHLY PLASTIC SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

COASTAL PLAIN
TAN, PINK, RED AND ORANGE VERY LOOSE TO MEDIUM DENSE CLAYEY SAND, SILTY SAND AND SAND MOIST TO SAT. [MIDDENDORF FORMATION]

A COASTAL PLAIN
RED, YELLOW, TAN AND BROWN MEDIUM STIFF TO HARD HIGHLY PLASTIC SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
BROWN AND YELLOW LOOSE TO MEDIUM DENSE SILTY SAND MOIST TO WET

ROADWAY EMBANKMENT
TAN RED MEDIUM DENSE CLAYEY SAND MOIST

RED AND BROWN SOFT SILTY CLAY WET

COASTAL PLAIN
TAN, PINK, RED AND ORANGE VERY LOOSE TO MEDIUM DENSE CLAYEY SAND, SILTY SAND AND SAND MOIST TO SAT. [MIDDENDORF FORMATION]

COASTAL PLAIN
TAN, RED VERY STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]

COASTAL PLAIN
BROWN LOOSE SILTY SAND MOIST [MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
TAN RED STIFF SANDY CLAY MOIST

COASTAL PLAIN
RED, YELLOW AND TAN STIFF TO HARD HIGHLY PLASTIC SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

COASTAL PLAIN
GRAY, RED AND TAN LOOSE TO MEDIUM DENSE CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

COASTAL PLAIN
RED, TAN AND GRAY MEDIUM STIFF TO STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
BROWN AND YELLOW LOOSE TO MEDIUM DENSE SILTY SAND MOIST TO WET

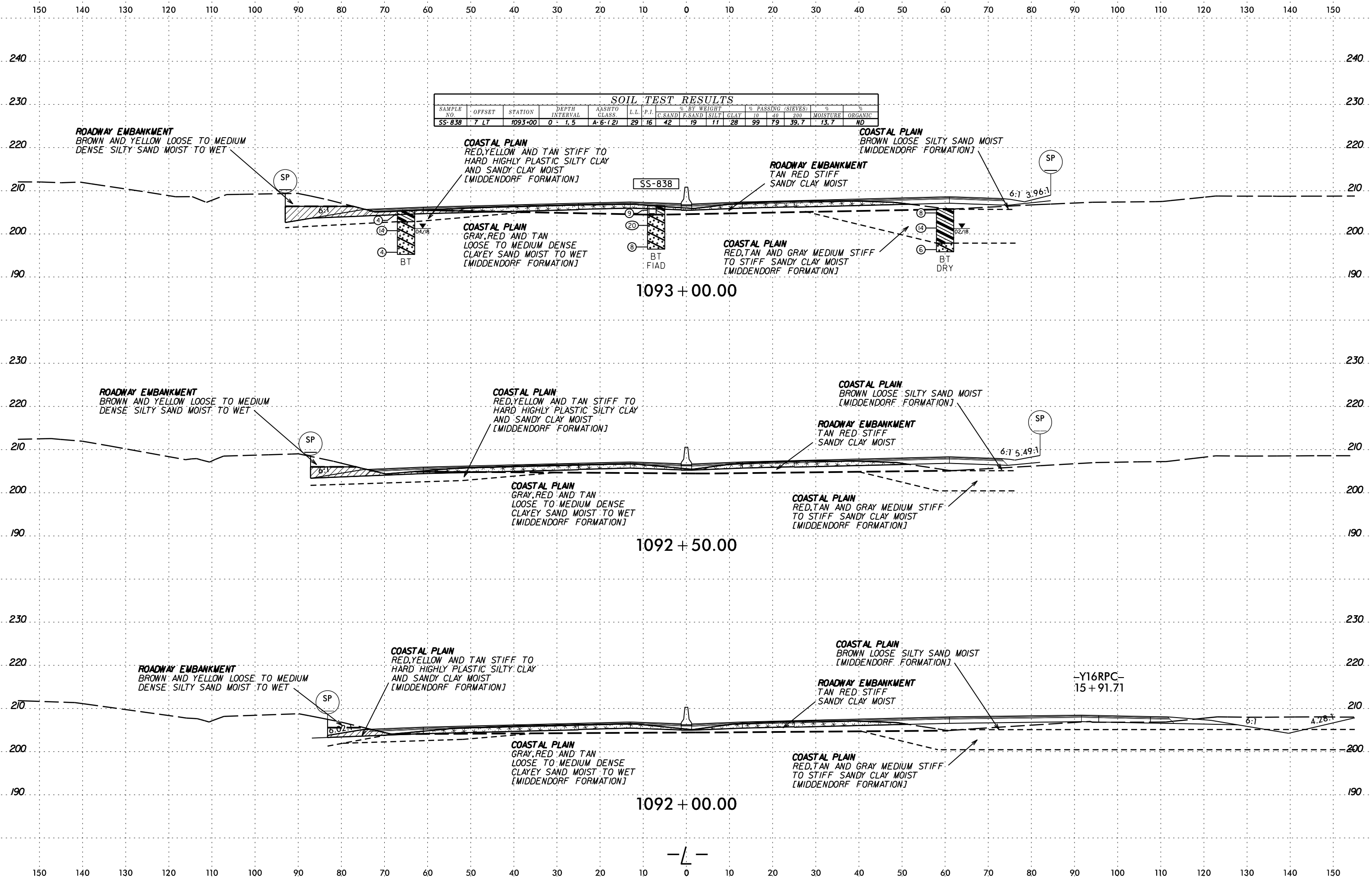
-Y16RPC-
15 + 41.62

-Y16RPB-
14 + 58.76

-Y16RPC-
14 + 91.51

COASTAL PLAIN
BROWN LOOSE SILTY SAND MOIST [MIDDENDORF FORMATION]





SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)		MOISTURE	ORGANIC	
SS-838	7 LT	1093+00	0 - 1.5	A-6 (2)	29	16	C.SAND	F.SAND	SILT	CLAY	10	40	200	ND
							42	19	11	28	99	79	39.7	13.7

1093 + 00.00

1092 + 50.00

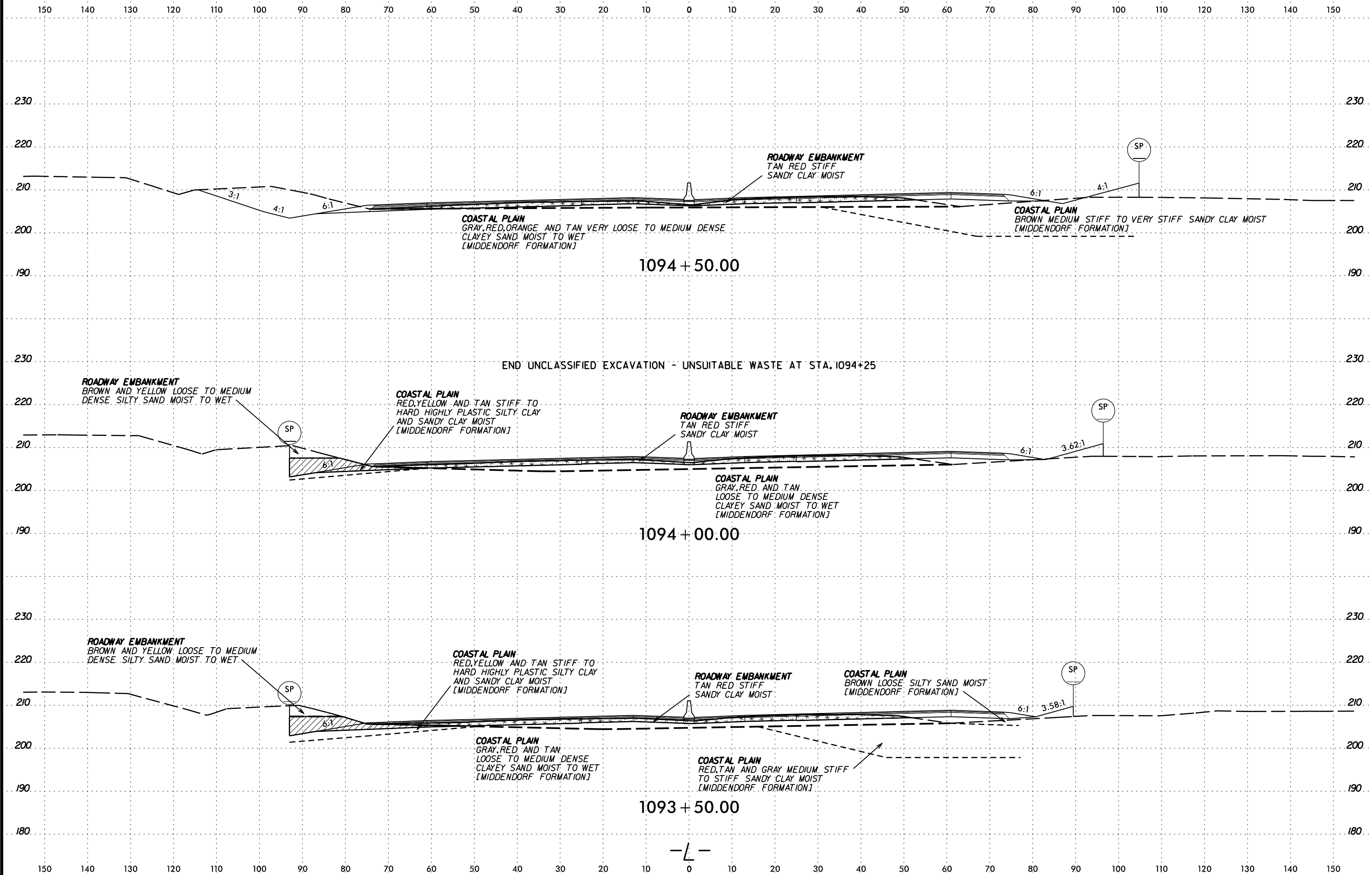
1092 + 00.00

-Y16RPC-
15+91.71

-L-

DATE PLOTTED: 6/23/16
SCALE: 1"=20'
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
APPROVED BY: J. B. BROWN

6/23/16

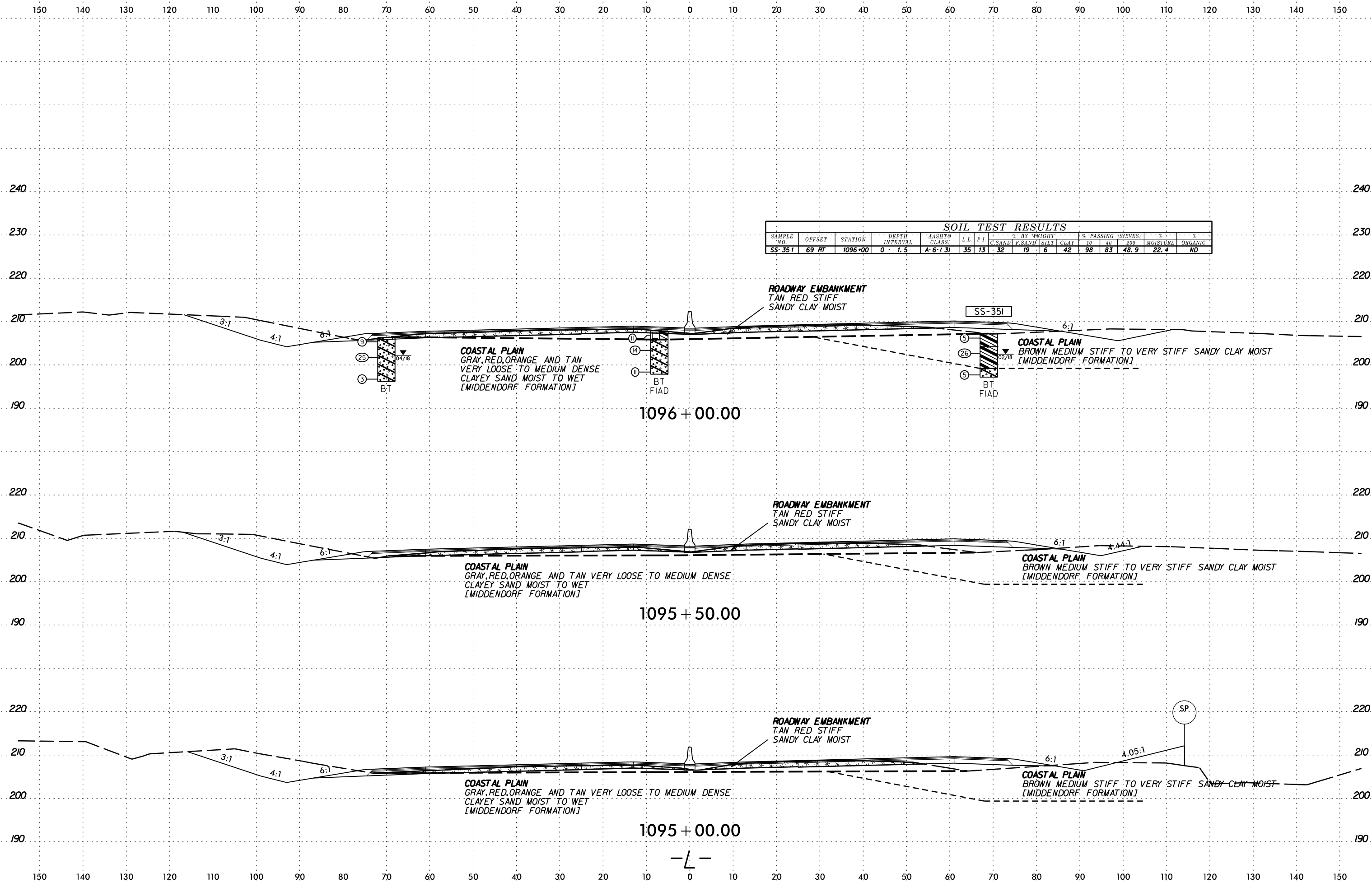


SECTION 1093+50.00 TO 1094+50.00

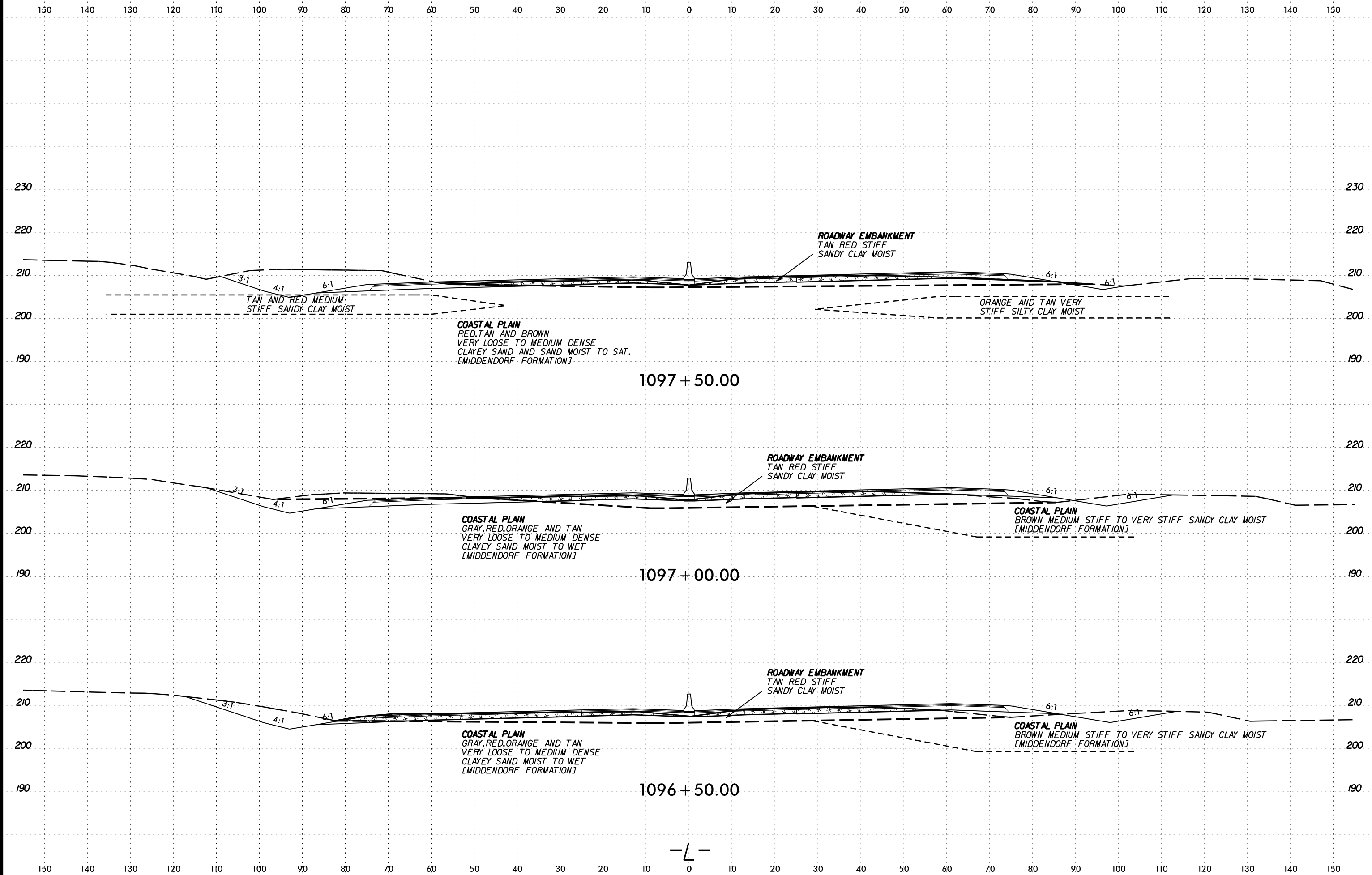


6/23/16
 SYSTEMS & DESIGN
 CIVIL ENGINEERING

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	ORGANIC	
							F. SAND	SILT	CLAY	NO. 10	NO. 40				
SS-351	69 RT	1096+00	0 - 1.5	A-6 (3)	35	13	32	19	6	42	98	83	48.9	22.4	ND



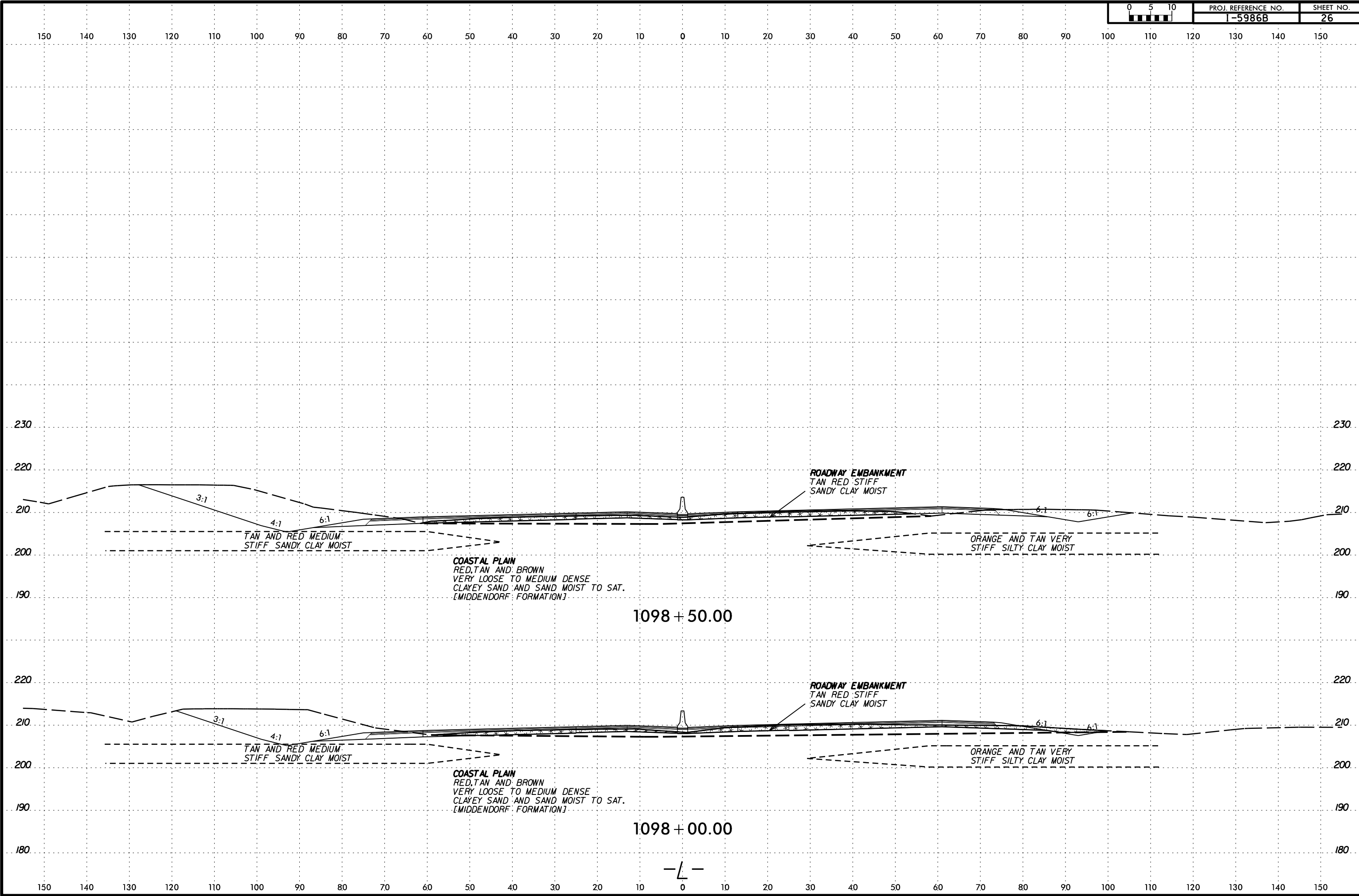
6/23/16



SYTIME
CON
ARRIVE
JULY
ARRIVE



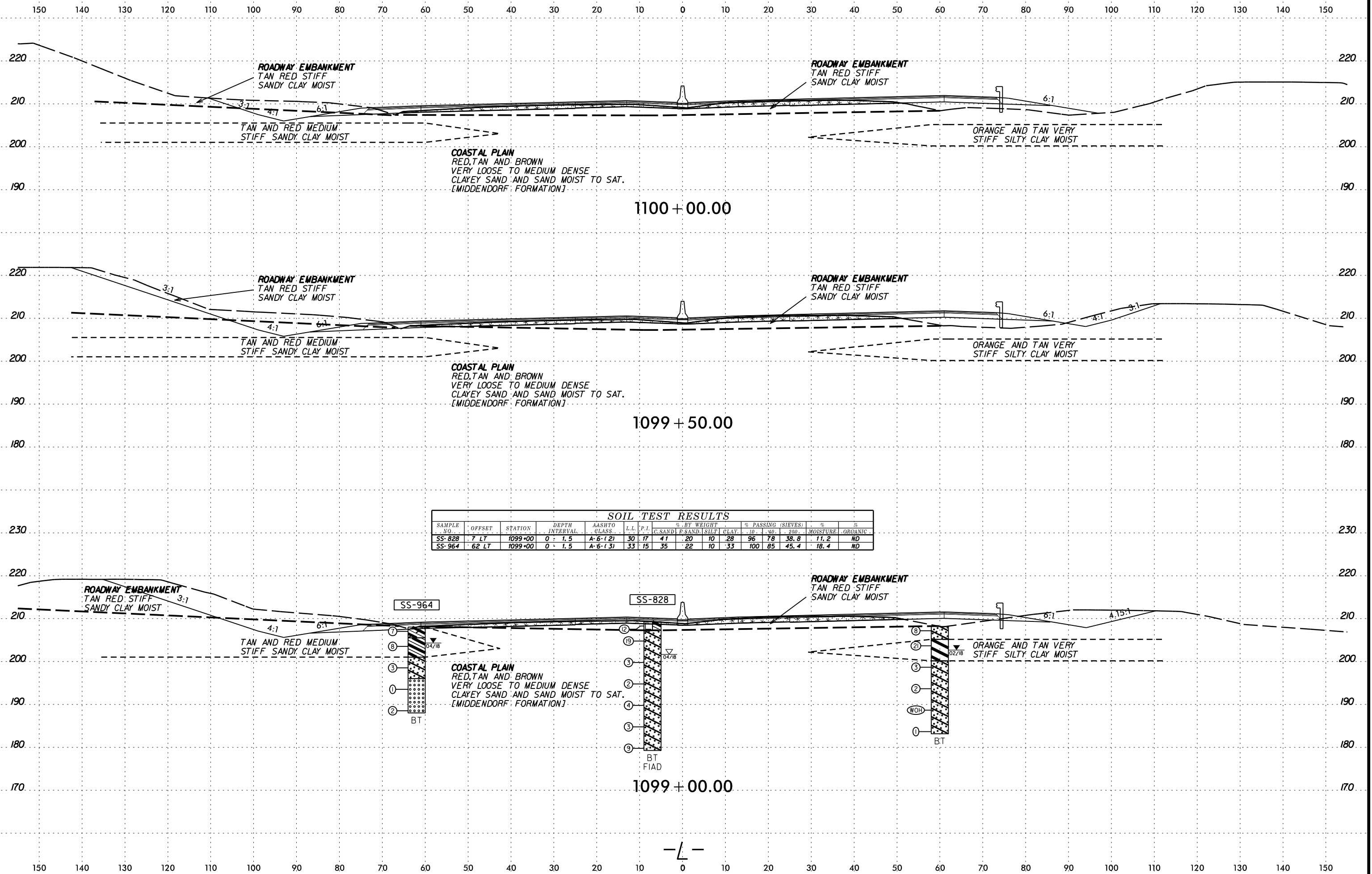
6/23/16



SYTIME
CON
ARR
ARR

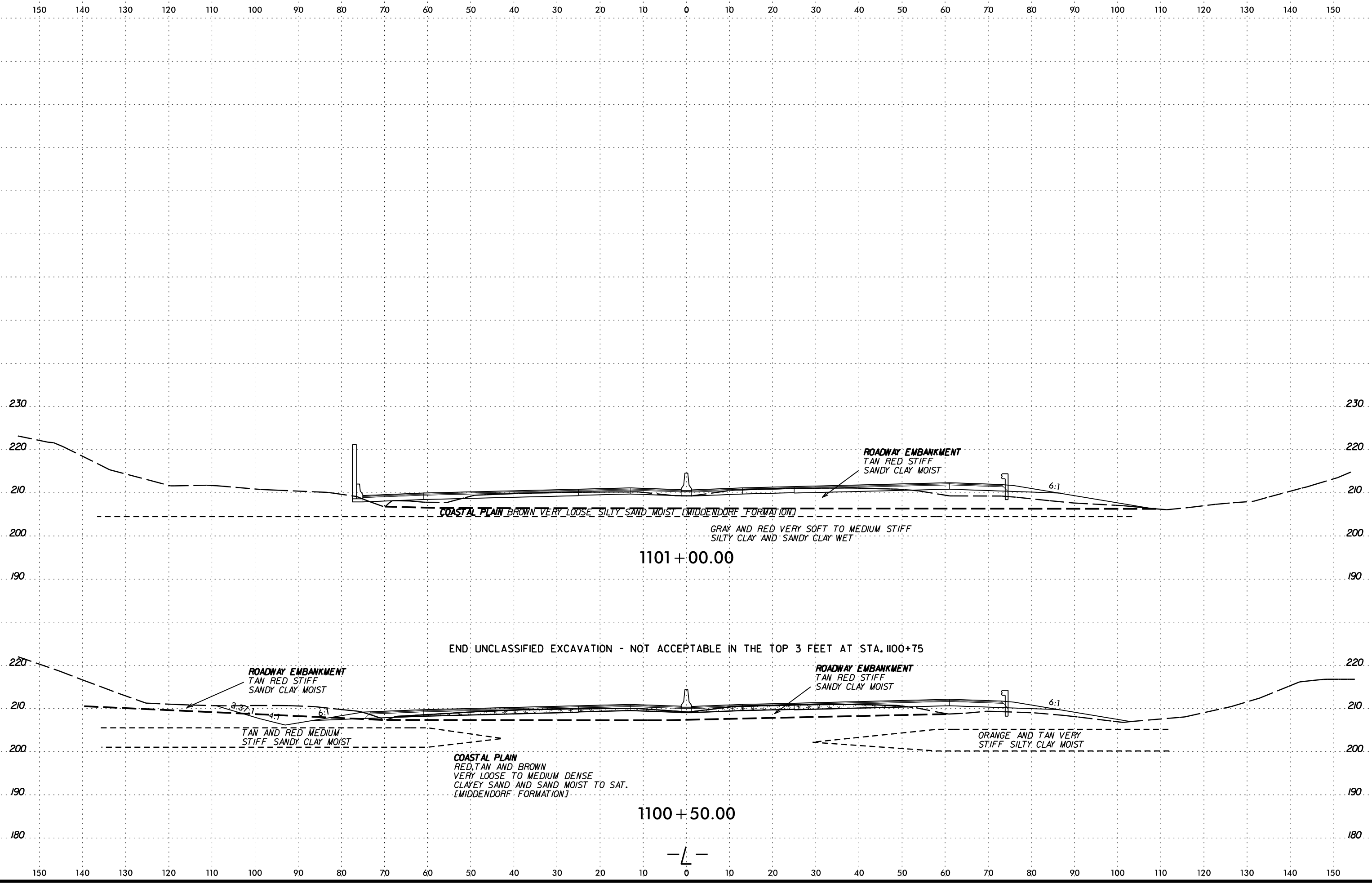
-L-

6/23/16

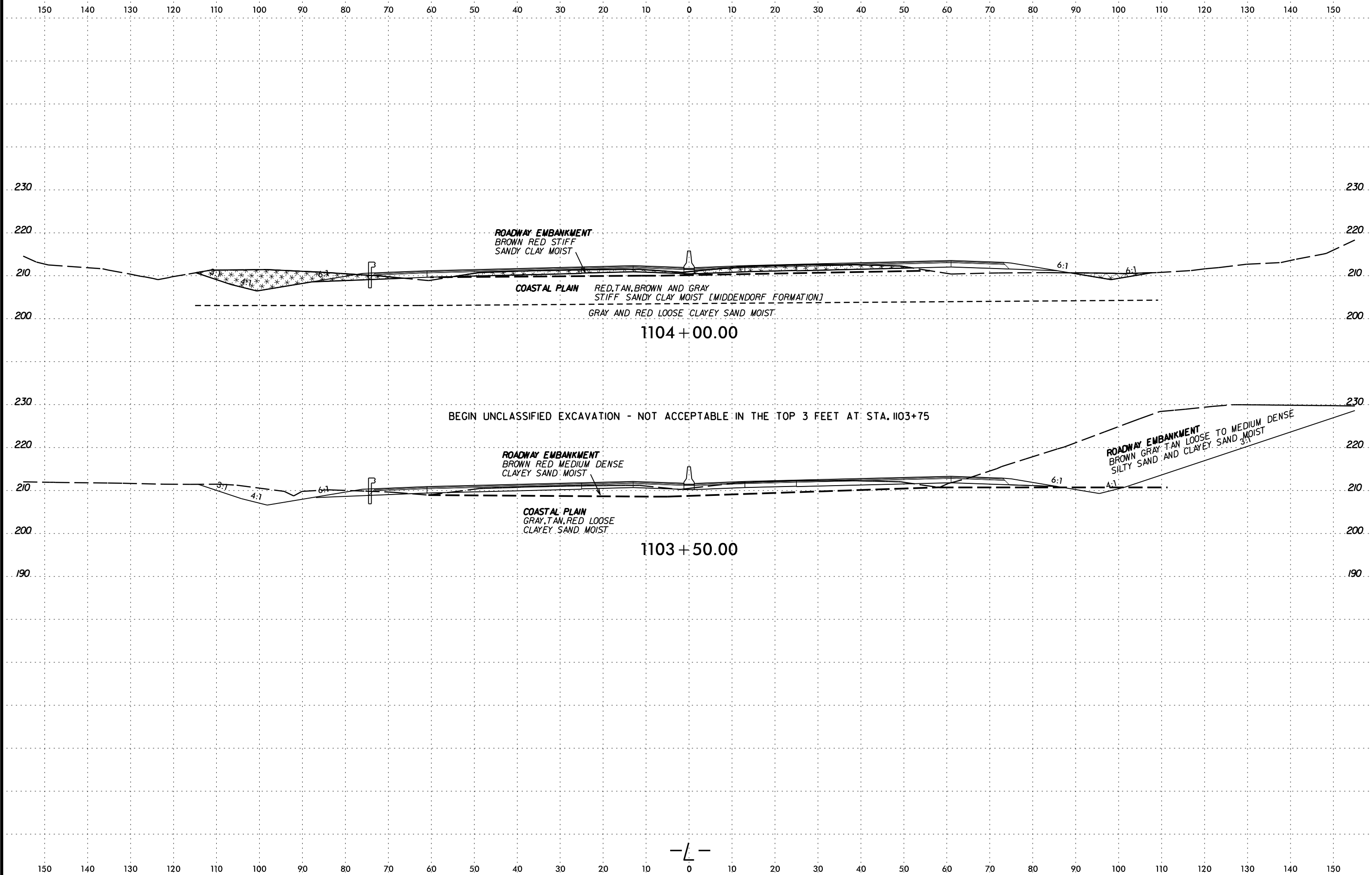


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			MOISTURE %	ORGANIC %	
							C. SAND	F. SAND	SILT & CLAY	#10	#40	#200			
SS-828	7 LT	1099+00	0 - 1.5	A-6 (2)	30	17	41	20	10	28	96	78	38.8	11.2	ND
SS-964	62 LT	1099+00	0 - 1.5	A-6 (3)	33	15	35	22	10	33	100	85	45.4	18.4	ND

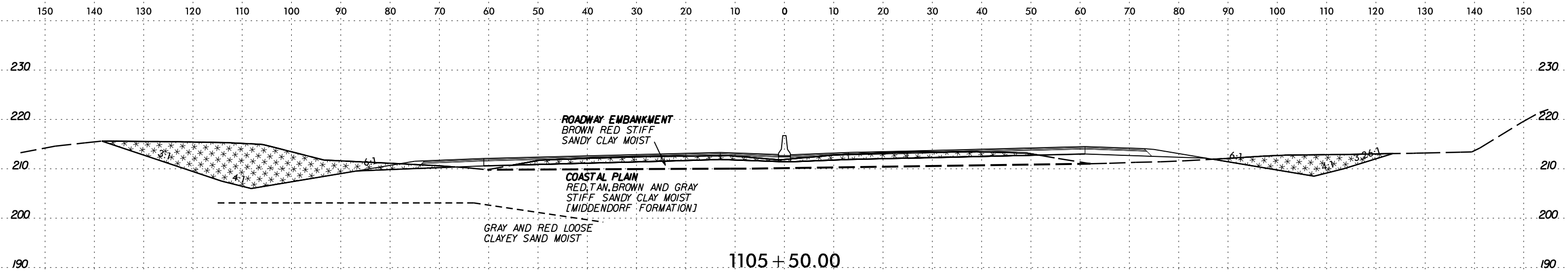
6/23/16



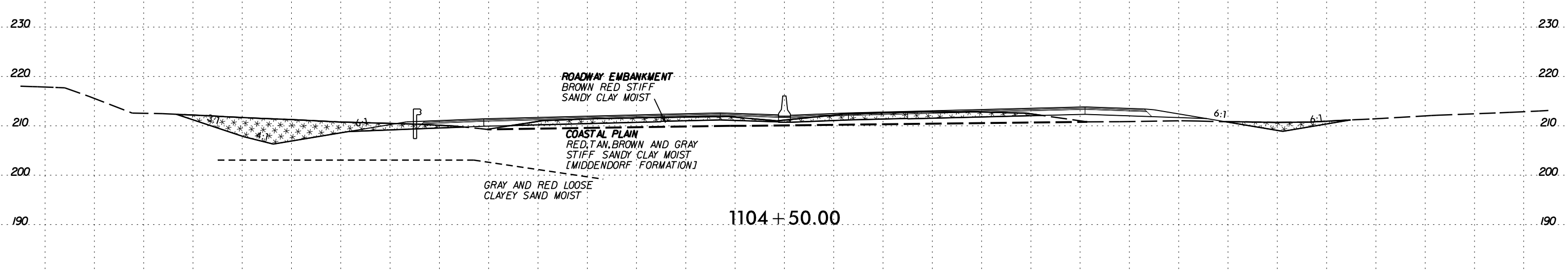
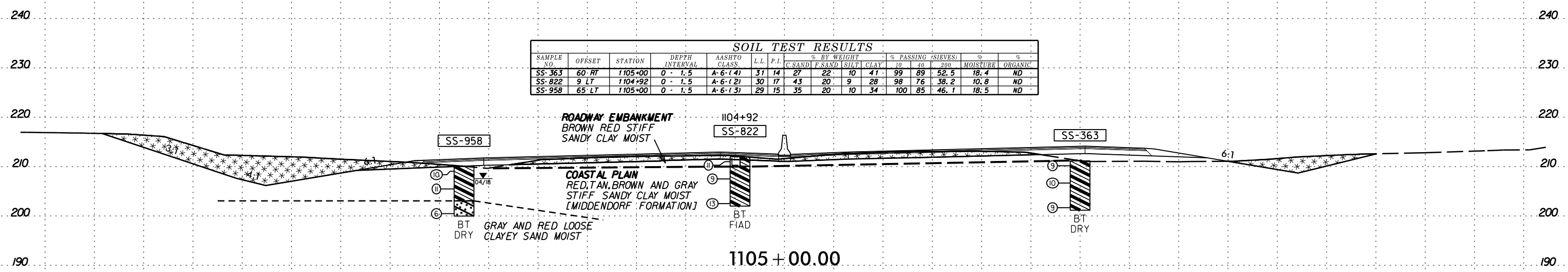
SECTION 1100+50.00 TO 1101+00.00



SYNTHETIC
SECTION
ARRANGEMENT

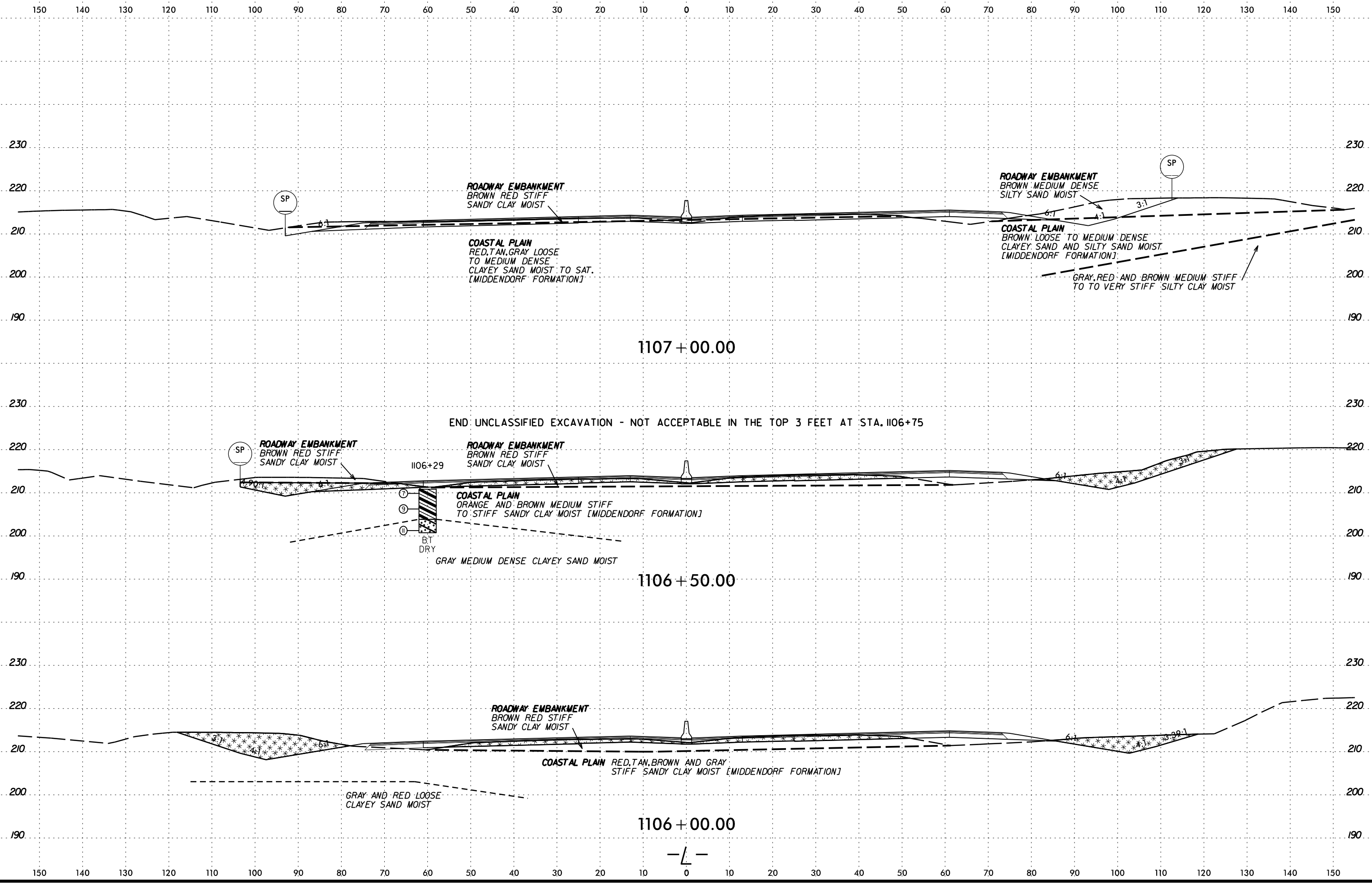


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							G. SAND	F. SAND	SILT CLAY	#10	#40	#200			
SS-363	60' RT	1105+00	0 - 1.5	A-6 (4)	31	14	27	22	10	41	99	89	52.5	18.4	ND
SS-822	9' LT	1104+92	0 - 1.5	A-6 (2)	30	17	43	20	9	28	98	76	38.2	10.8	ND
SS-958	65' LT	1105+00	0 - 1.5	A-6 (3)	29	15	35	20	10	34	100	85	46.1	18.5	ND

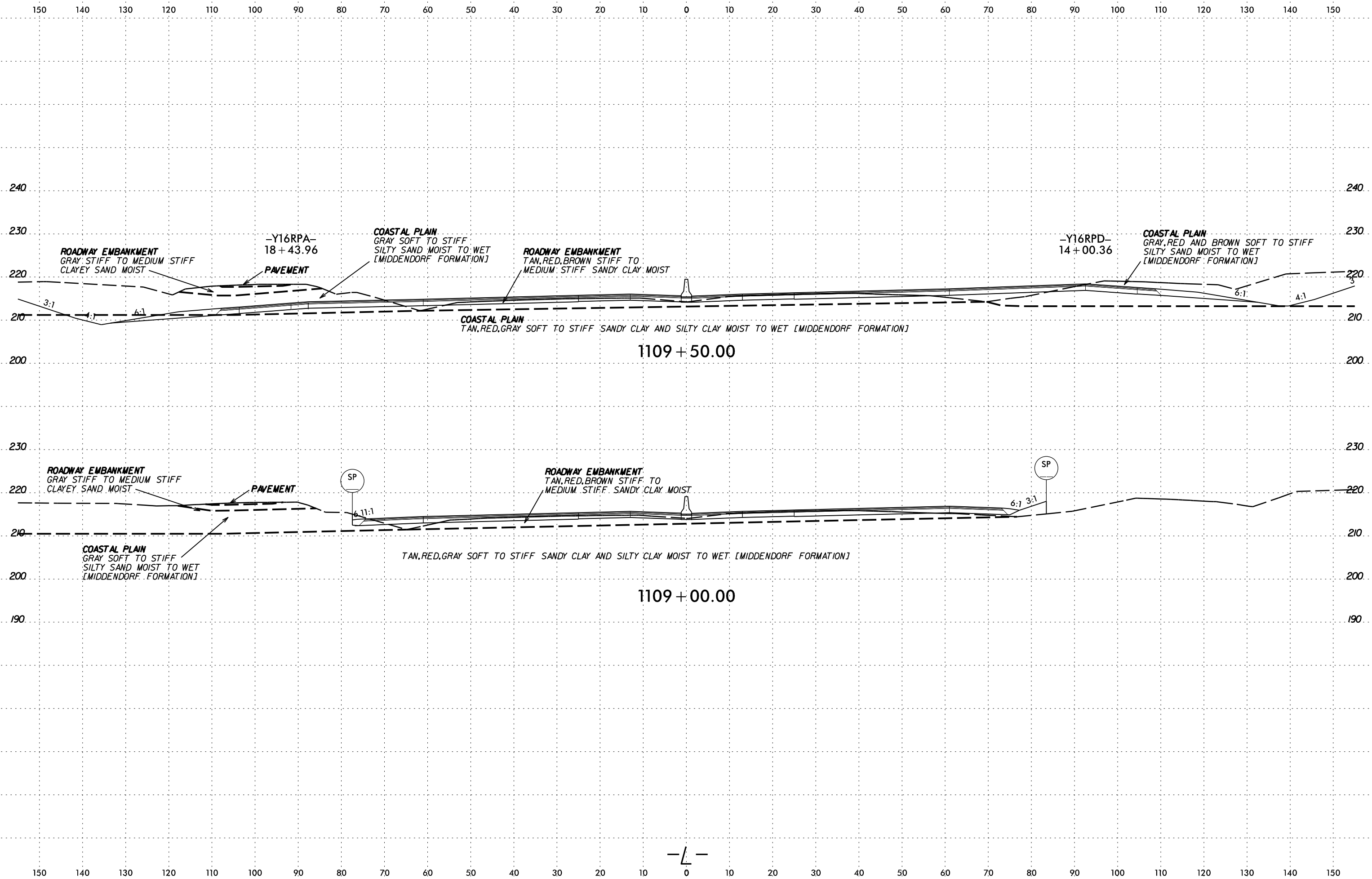


SCHEMATIC SECTION

6/23/16

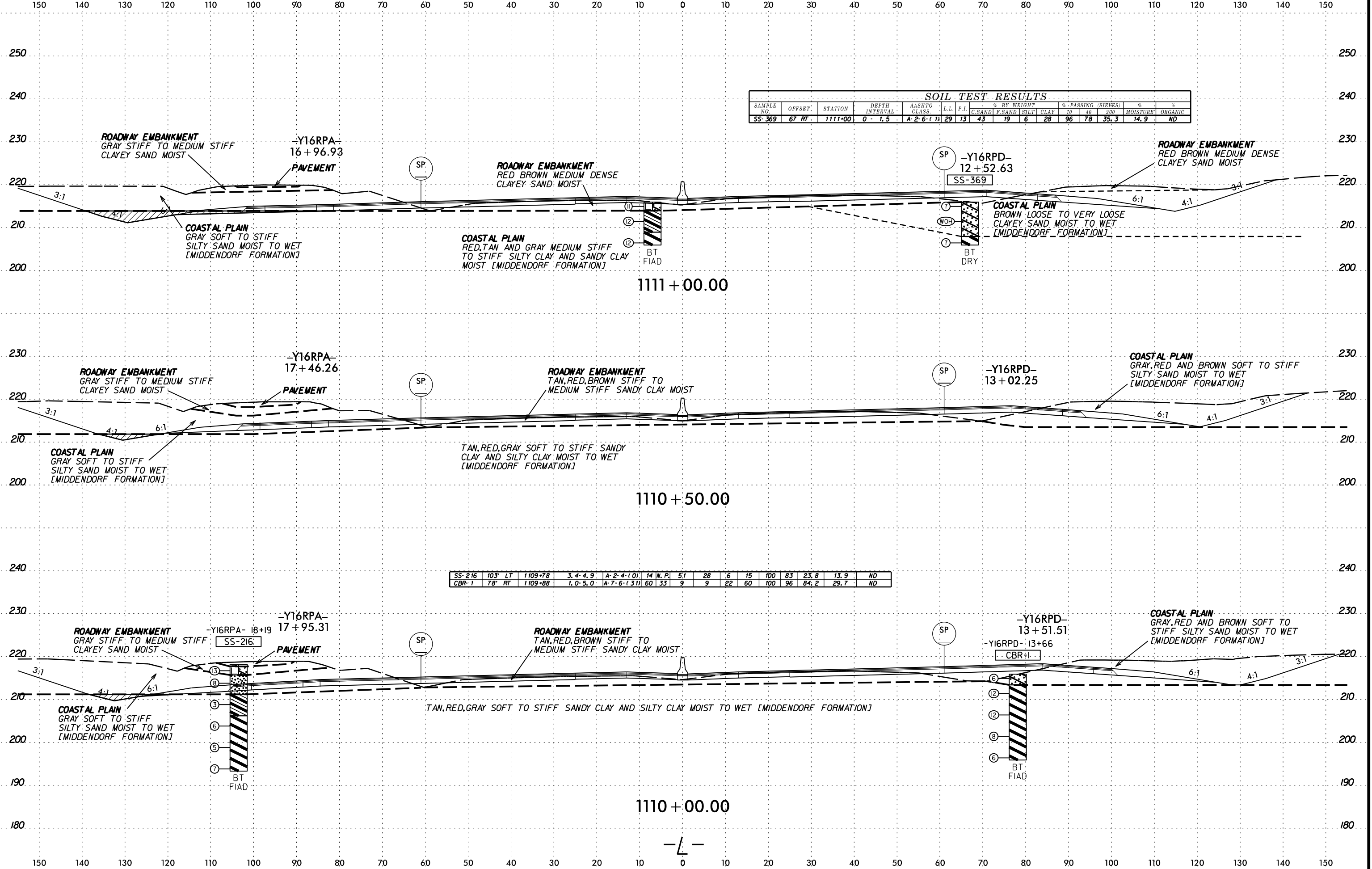


SYTIME CONSTRUCTION SERVICES



DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN

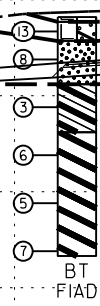
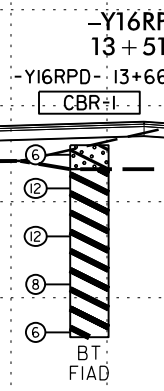
6/23/16



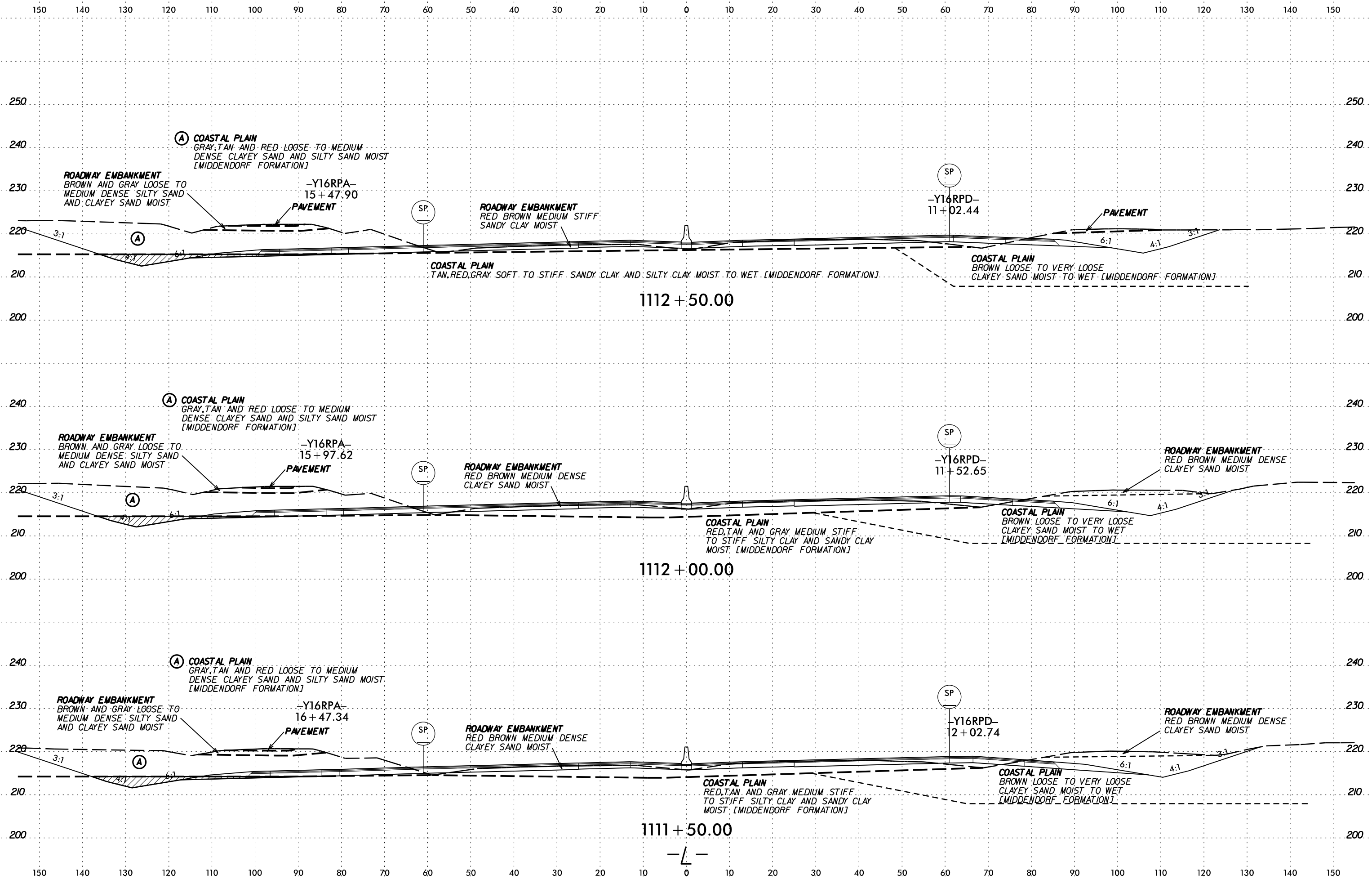
SOIL TEST RESULTS

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-369	67' RT.	1111+00	0 - 1.5	A-2-6-(1)	29	13	43	19	6	28	96	78	35.3	14.9	ND

SS-216	103' LT	1109+78	3.4-4.9	A-2-4-(1)	14	W, P.I.	5.1	28	6	15	100	83	23.8	13.9	ND	
CBR-1	78' RT.	1109+88	1.0-5.0	A-7-6-(3)	60		33	9	9	22	60	100	96	84.2	29.7	ND



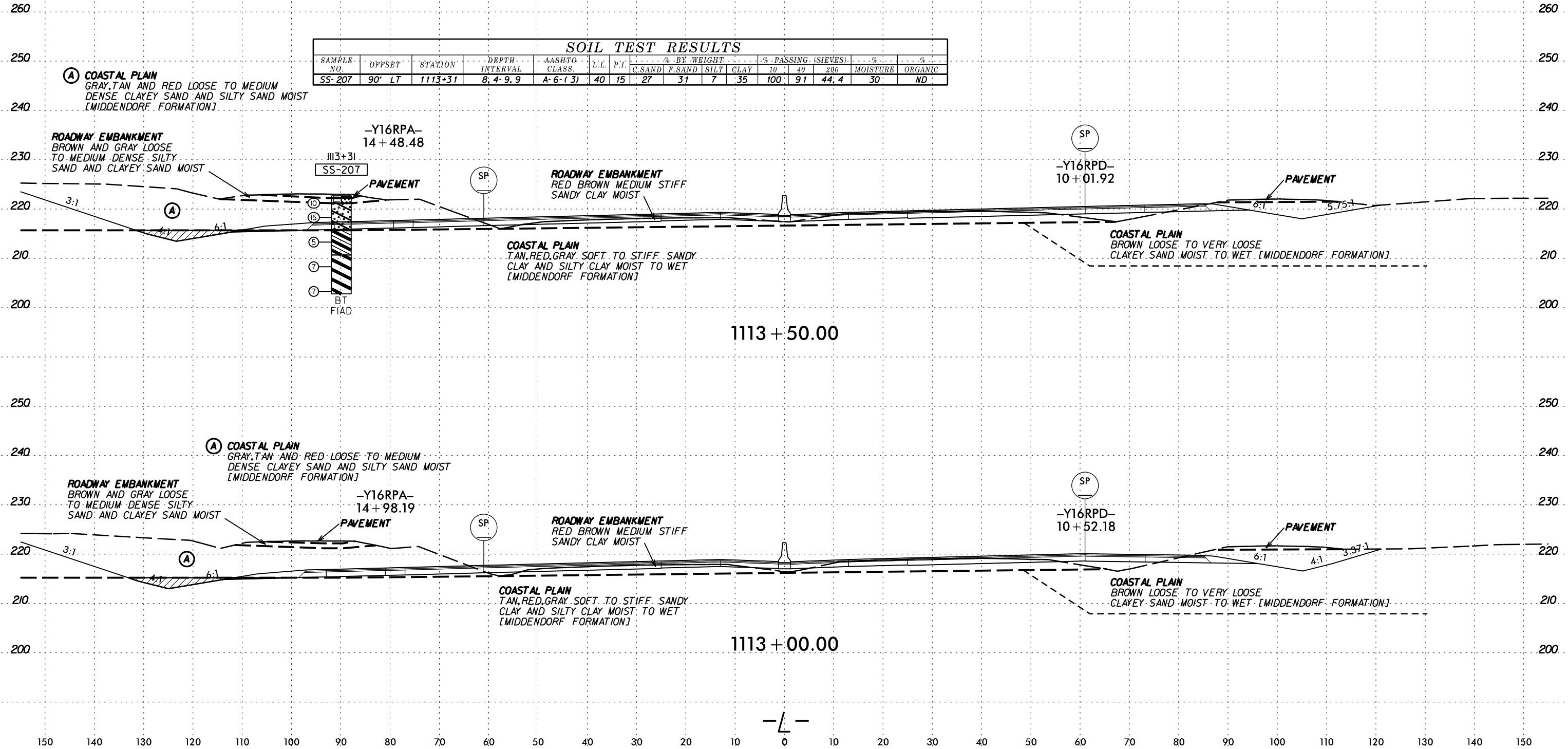
-L-



SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]

-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



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-207	90' LT	1113+31	8.4-9.9	A-6-(3)	40	15	27	31	7	35	100	91	44.4	30	ND

(A) COASTAL PLAIN
 GRAY, TAN AND RED LOOSE TO MEDIUM DENSE CLAYEY SAND AND SILTY SAND MOIST [MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
 BROWN AND GRAY LOOSE TO MEDIUM DENSE SILTY SAND AND CLAYEY SAND MOIST

-Y16RPA-
 14 + 48.48

1113+31
 SS-207

PAVEMENT

SP

ROADWAY EMBANKMENT
 RED BROWN MEDIUM STIFF SANDY CLAY MOIST

SP

-Y16RPD-
 10 + 01.92

PAVEMENT

COASTAL PLAIN
 BROWN LOOSE TO VERY LOOSE CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

COASTAL PLAIN
 TAN, RED, GRAY SOFT TO STIFF SANDY CLAY AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

BT
 FIAD

(A) COASTAL PLAIN
 GRAY, TAN AND RED LOOSE TO MEDIUM DENSE CLAYEY SAND AND SILTY SAND MOIST [MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
 BROWN AND GRAY LOOSE TO MEDIUM DENSE SILTY SAND AND CLAYEY SAND MOIST

-Y16RPA-
 14 + 98.19

PAVEMENT

SP

ROADWAY EMBANKMENT
 RED BROWN MEDIUM STIFF SANDY CLAY MOIST

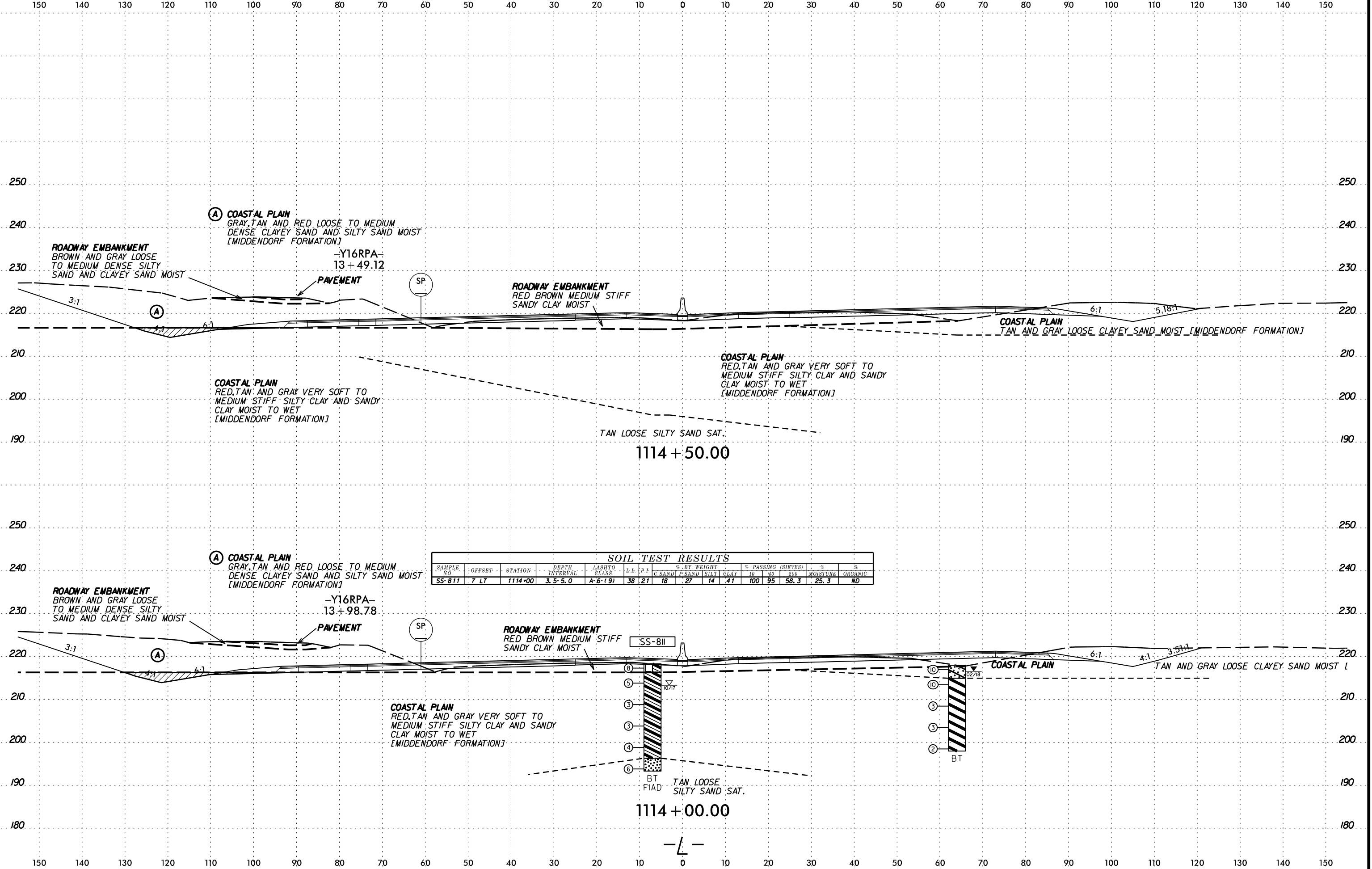
SP

-Y16RPD-
 10 + 52.18

PAVEMENT

COASTAL PLAIN
 BROWN LOOSE TO VERY LOOSE CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

COASTAL PLAIN
 TAN, RED, GRAY SOFT TO STIFF SANDY CLAY AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.P.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							G. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-811	7 LT	1114+00	3.5-5.0	A-6-(9)	38	21	18	27	14	41	100	95	58.3	25.3	ND

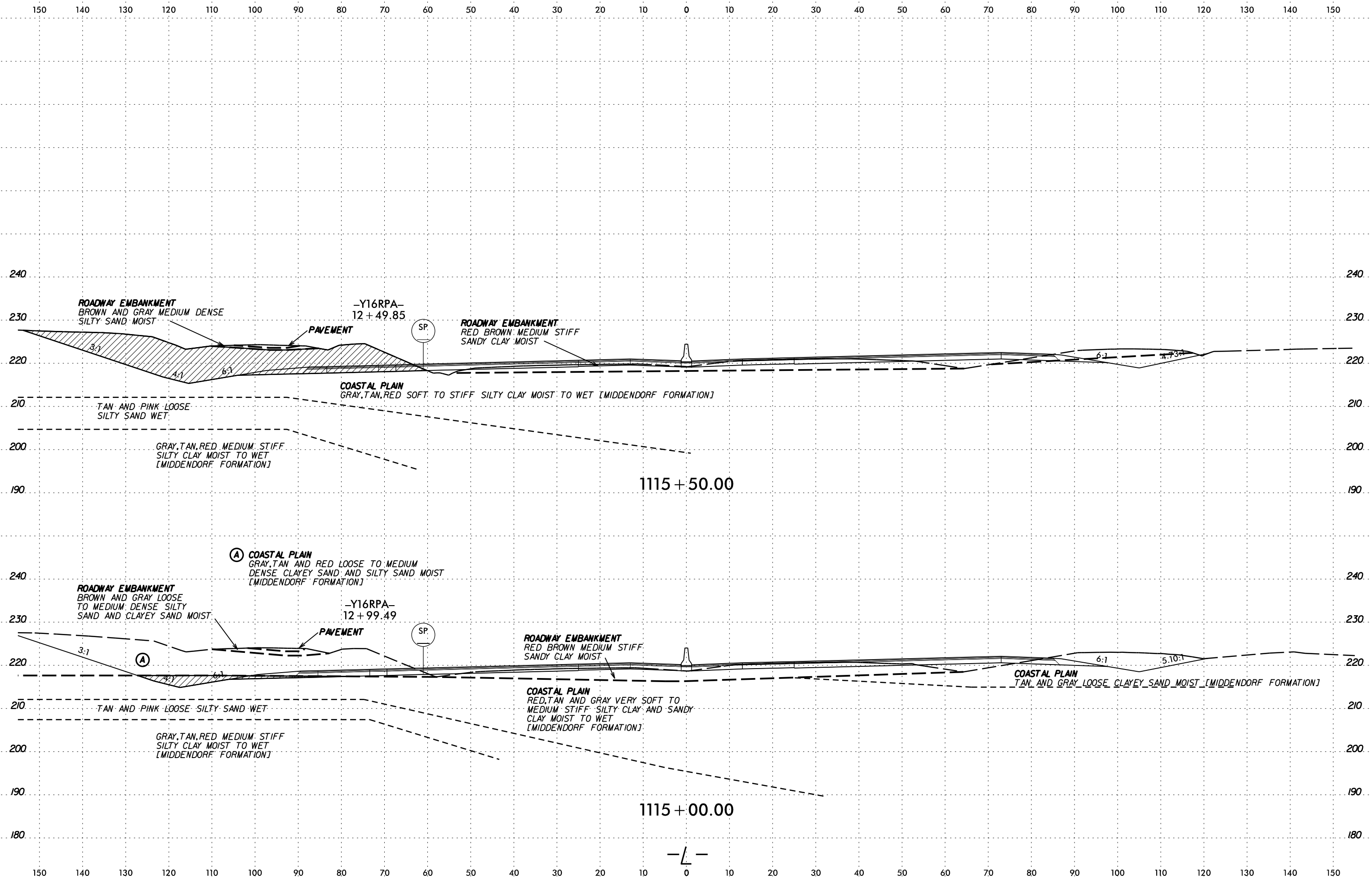
SS-811

BT

BT FIAD

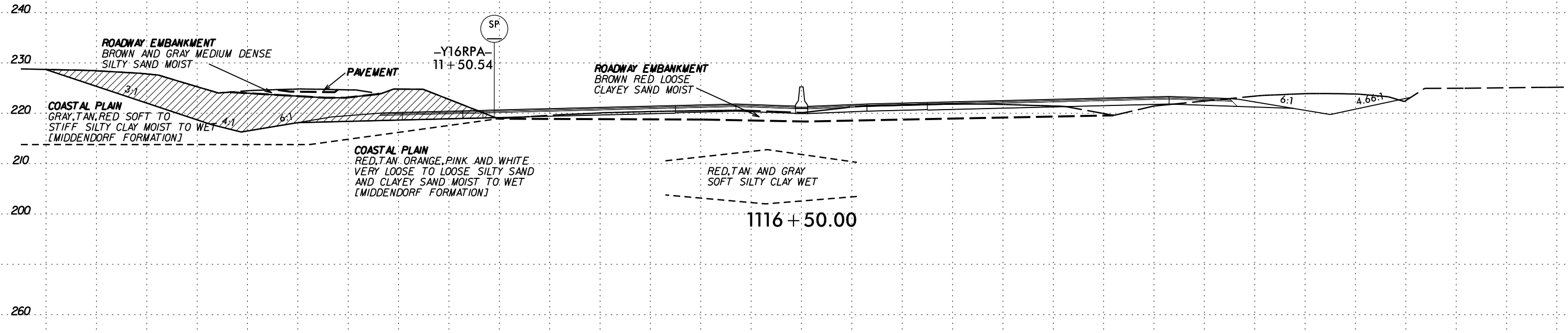
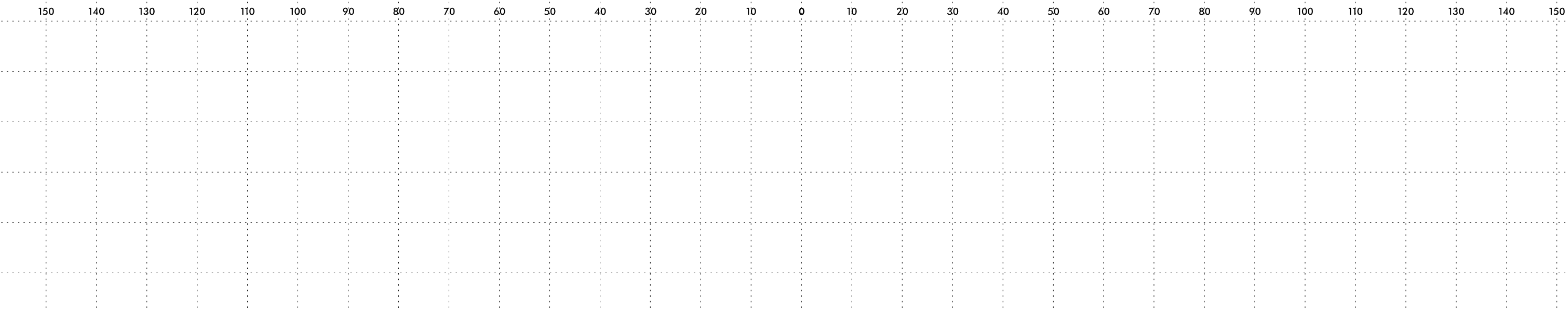
1114 + 00.00

SUBMITTED: 06/23/16
 DESIGNED: [blank]
 CHECKED: [blank]
 APPROVED: [blank]



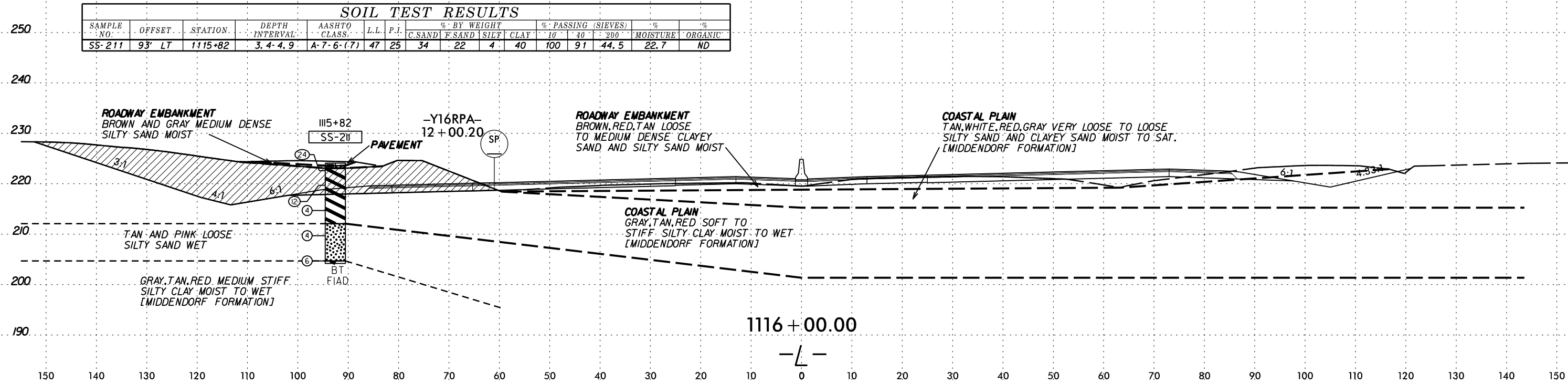
SCHEMATIC CROSS SECTION



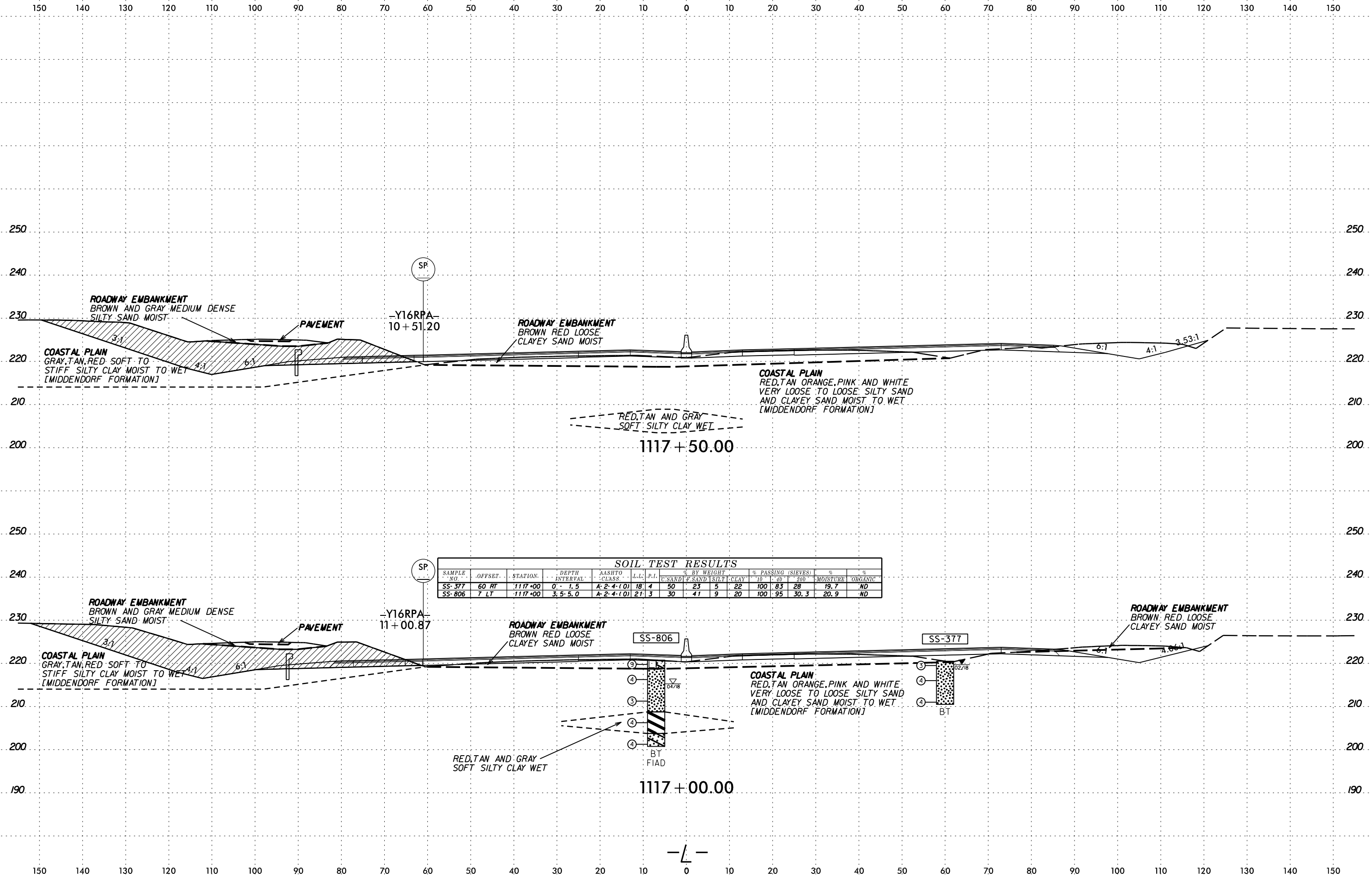


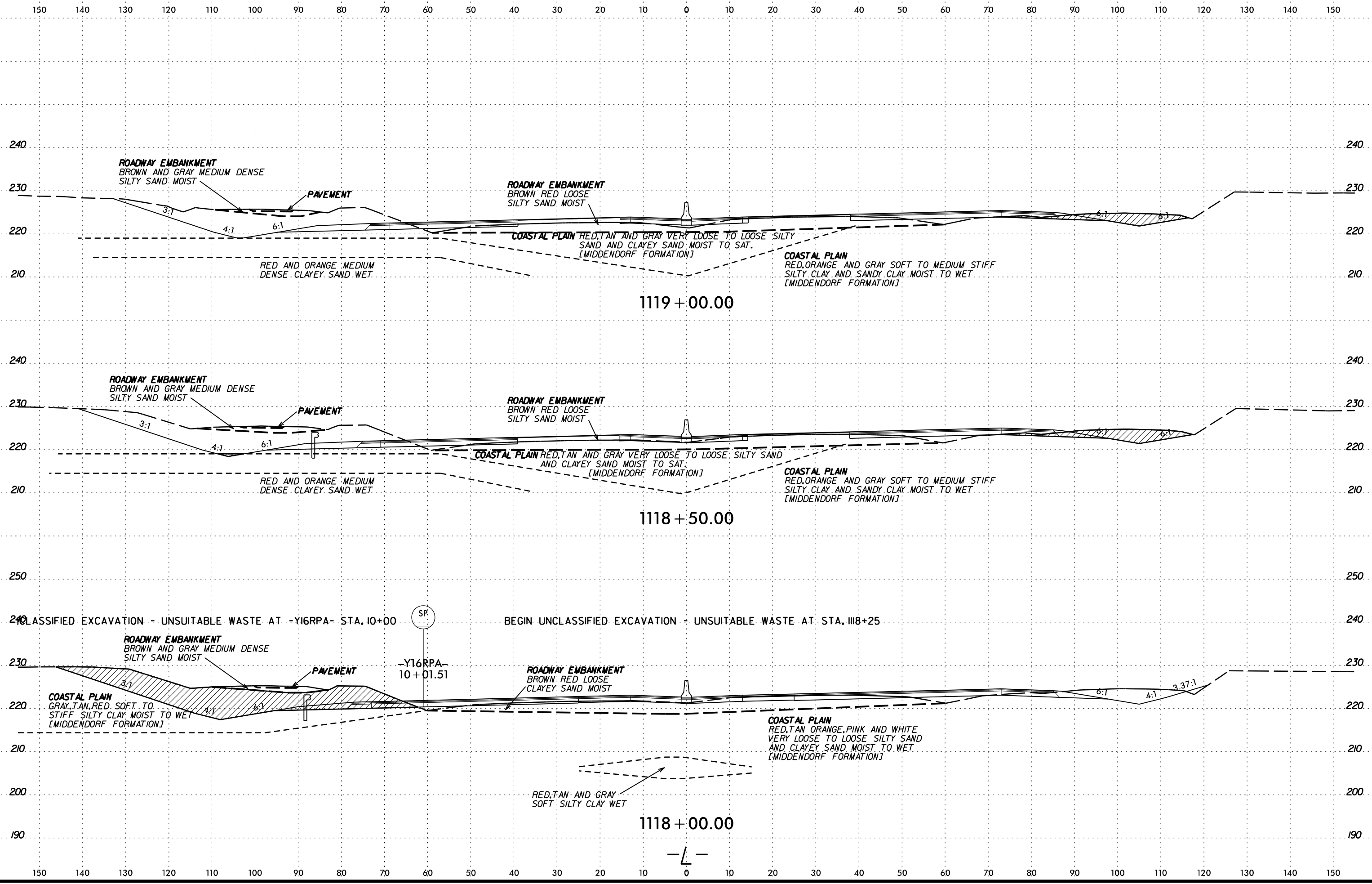
SOIL TEST RESULTS

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-211	93' LT	1115+82	3.4-4.9	A-7-6-(7)	47	25	34	22	4	40	100	91	44.5	22.7	ND



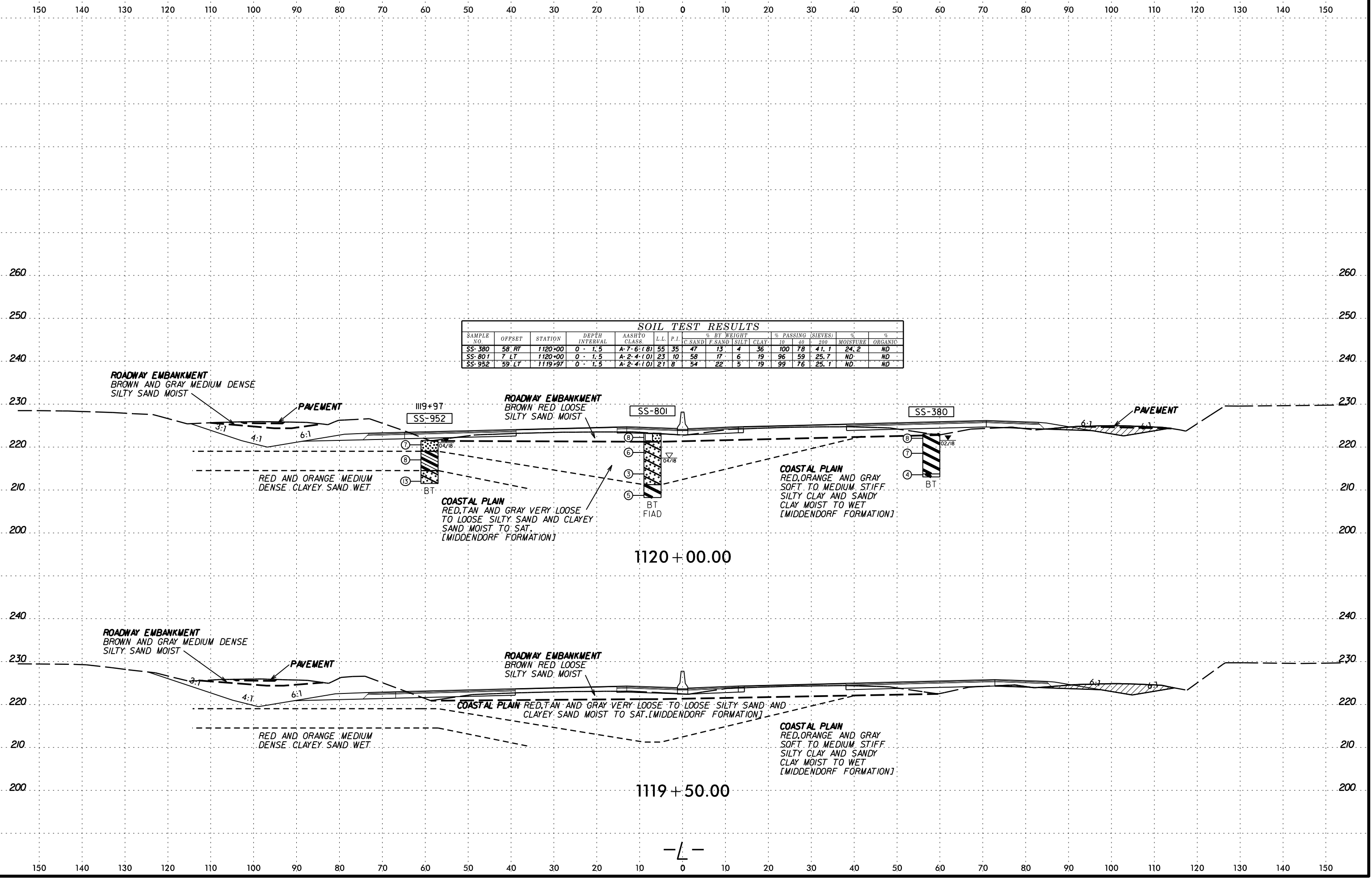
SCHEMATIC CROSS SECTION
 1115+82
 SS-211
 BT
 FIAD



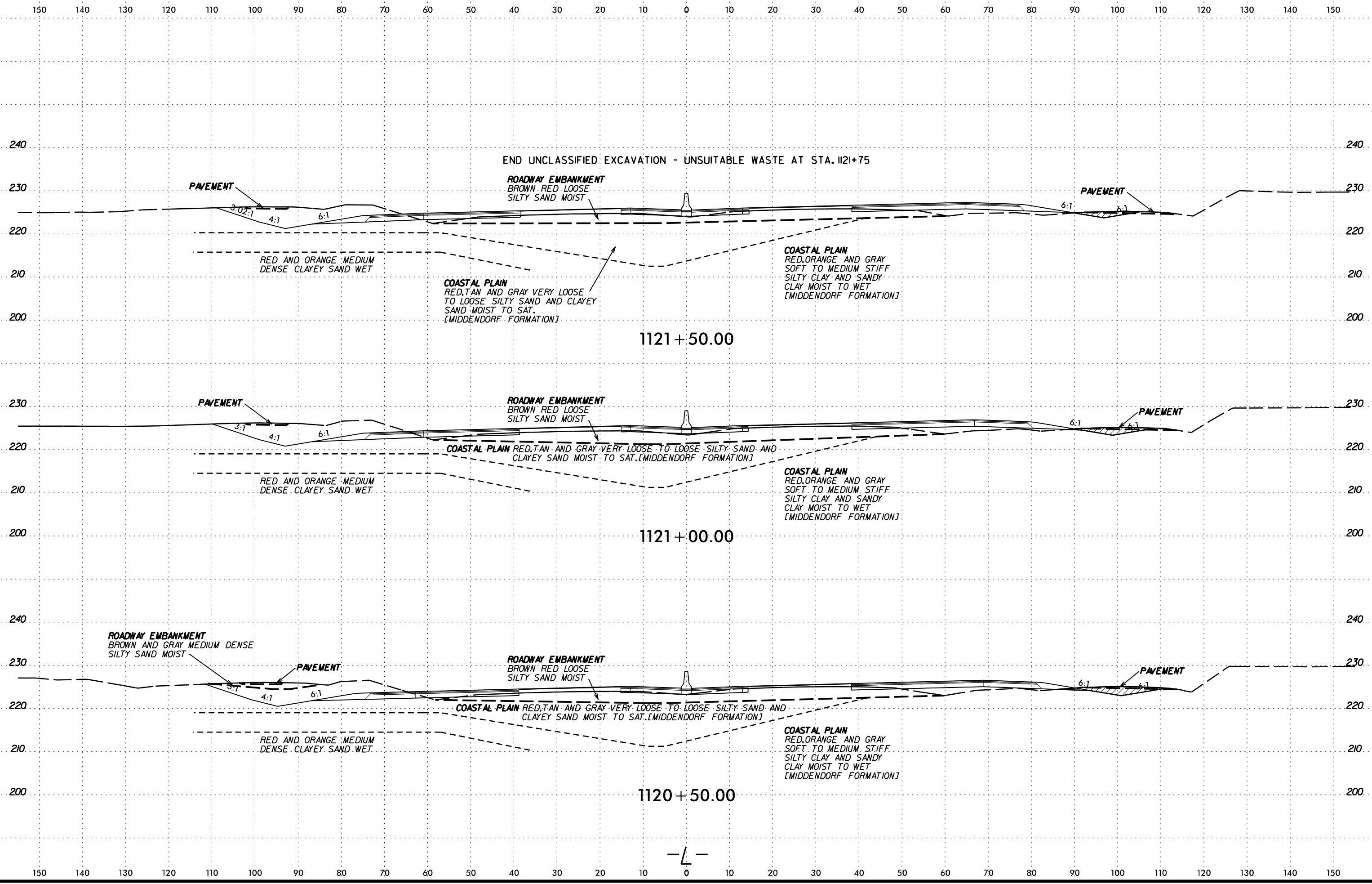


SCHEMATIC CONSTRUCTION

6/23/16



6/23/16

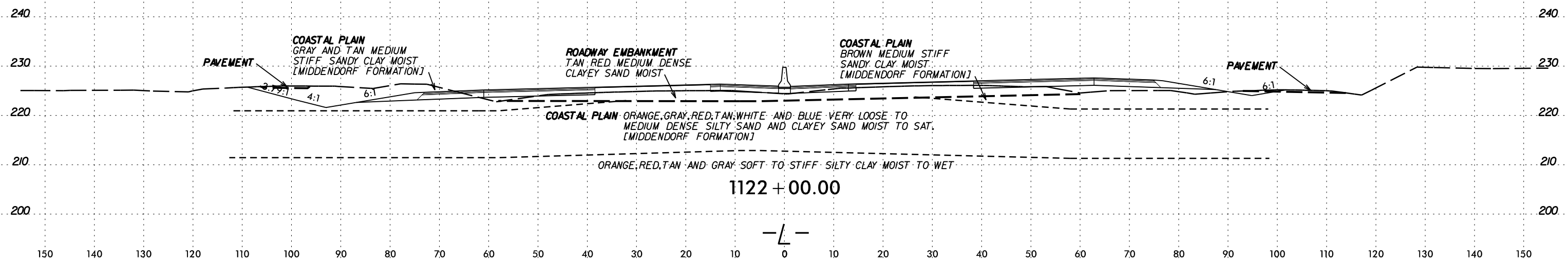


SYNTHESIS CONSULTING ENGINEERS



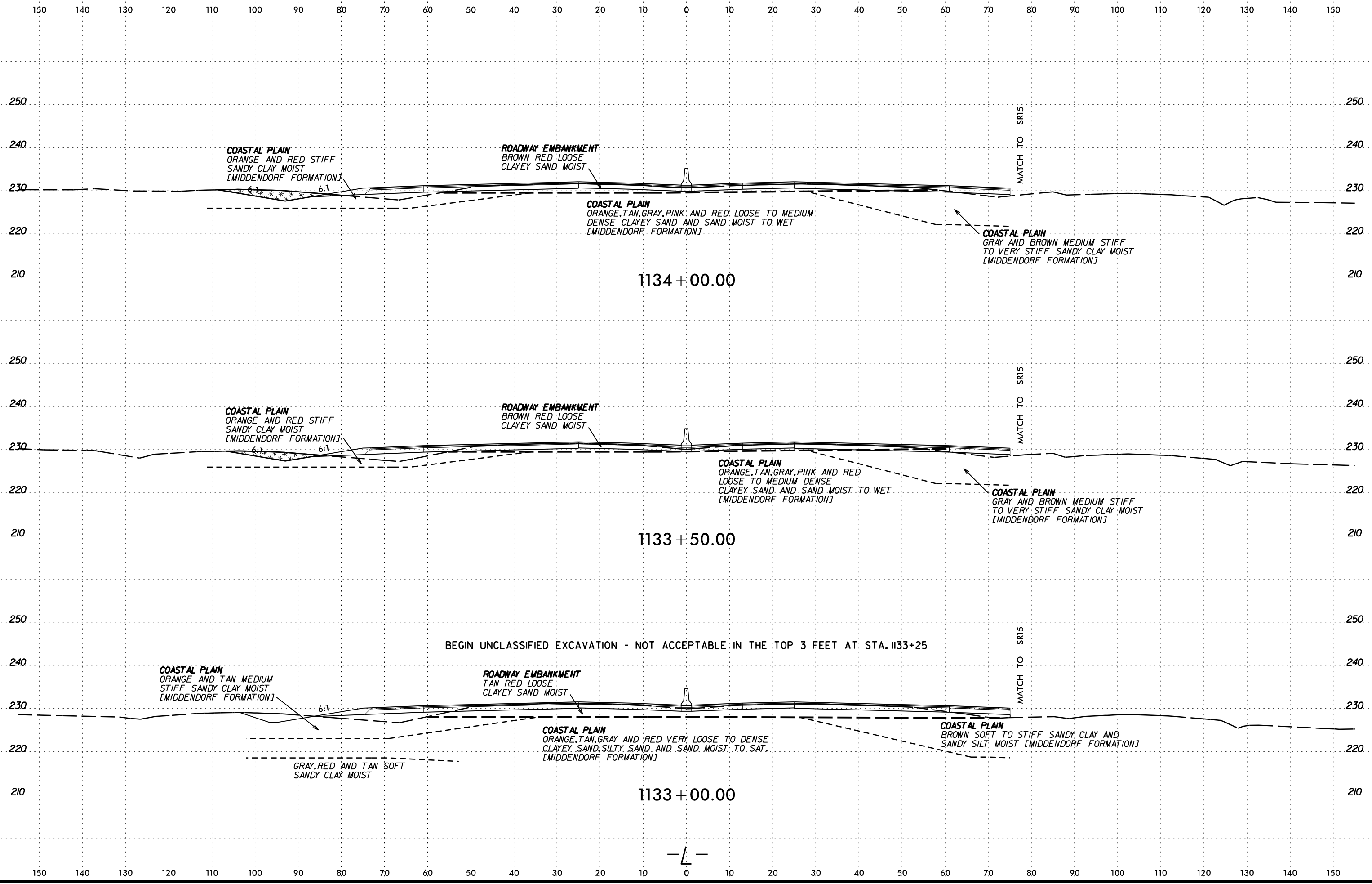
6/23/16

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



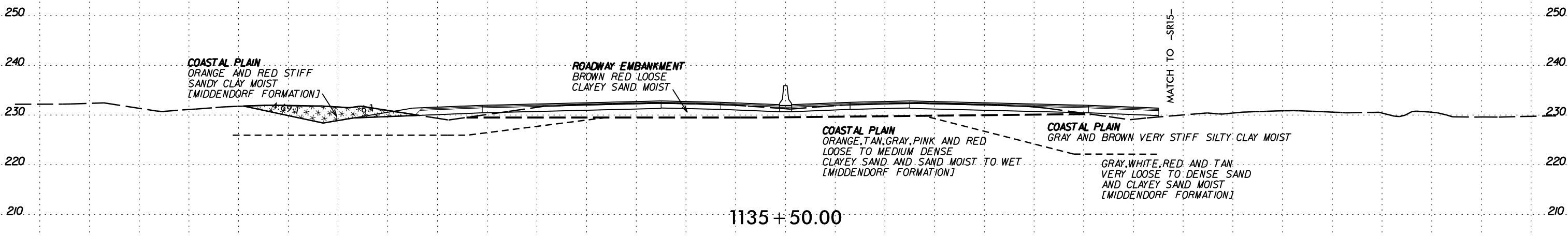
SYTIME
CON
LE
JUL
ARRIVE

6/23/16



SYTIME
SECTION
NO. 1133
DATE 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

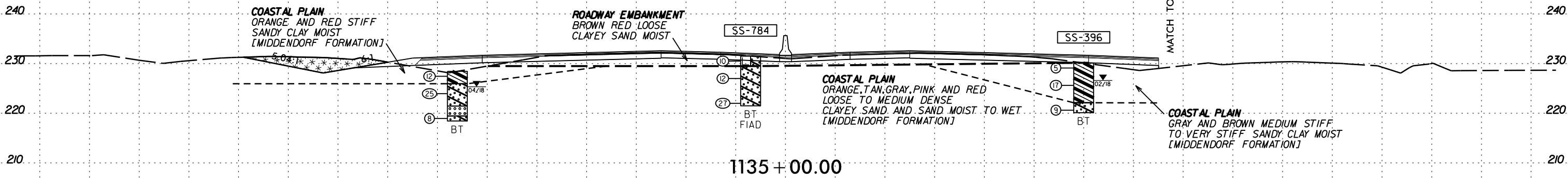


1135 + 50.00

260 260

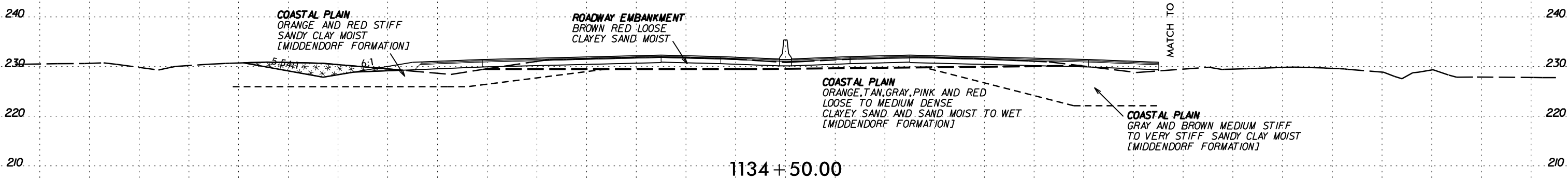
SOIL TEST RESULTS

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-396	60 RT	1135+00	0 - 1.5	A-6-(1)	27	12	35	19	9	28	91	72	38.8	13.4	ND
SS-784	7 LT	1135+00	0 - 1.5	A-2-6-(1)	31	17	45	17	9	29	88	61	35	9.8	ND



1135 + 00.00

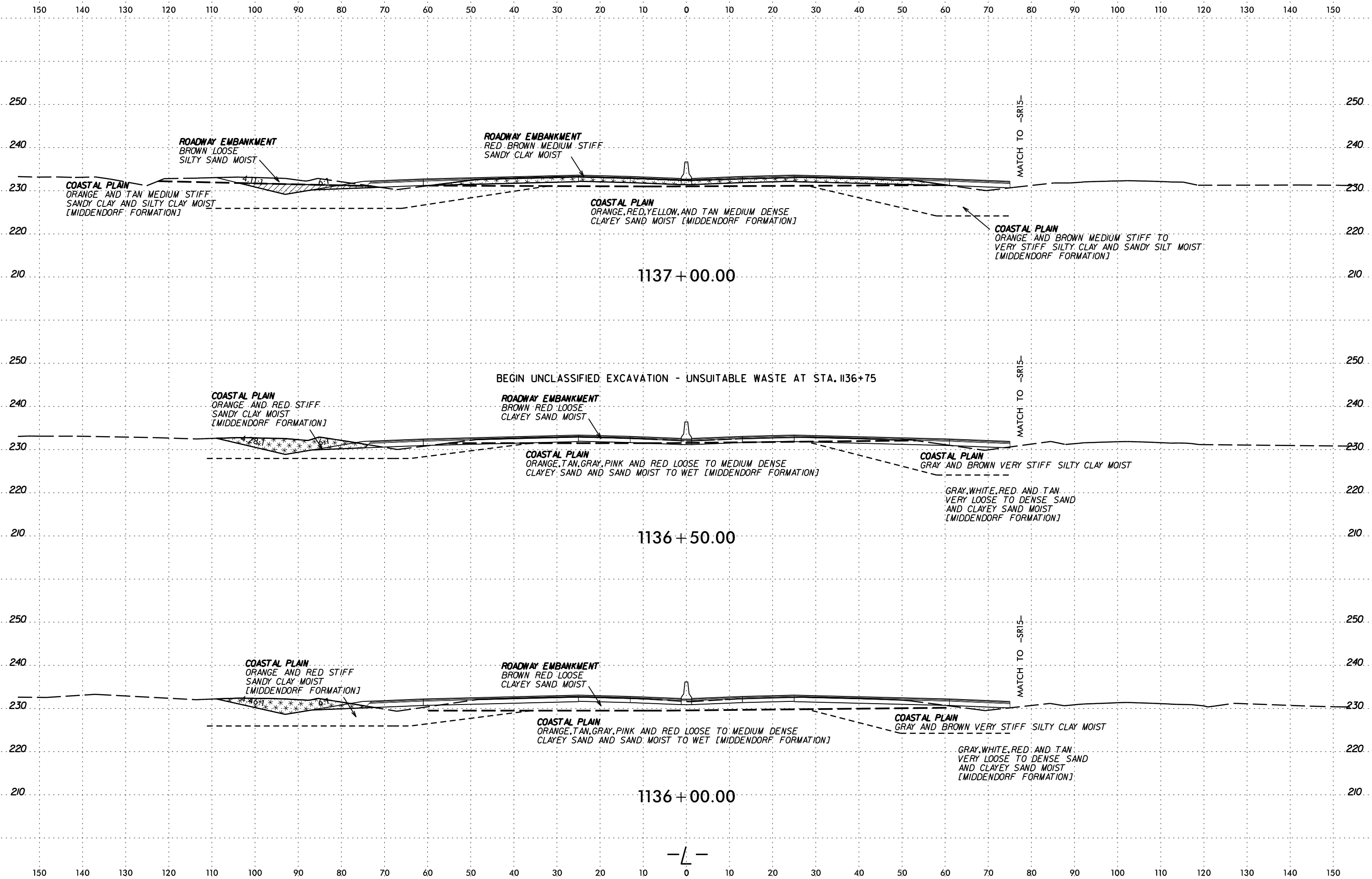
250 250



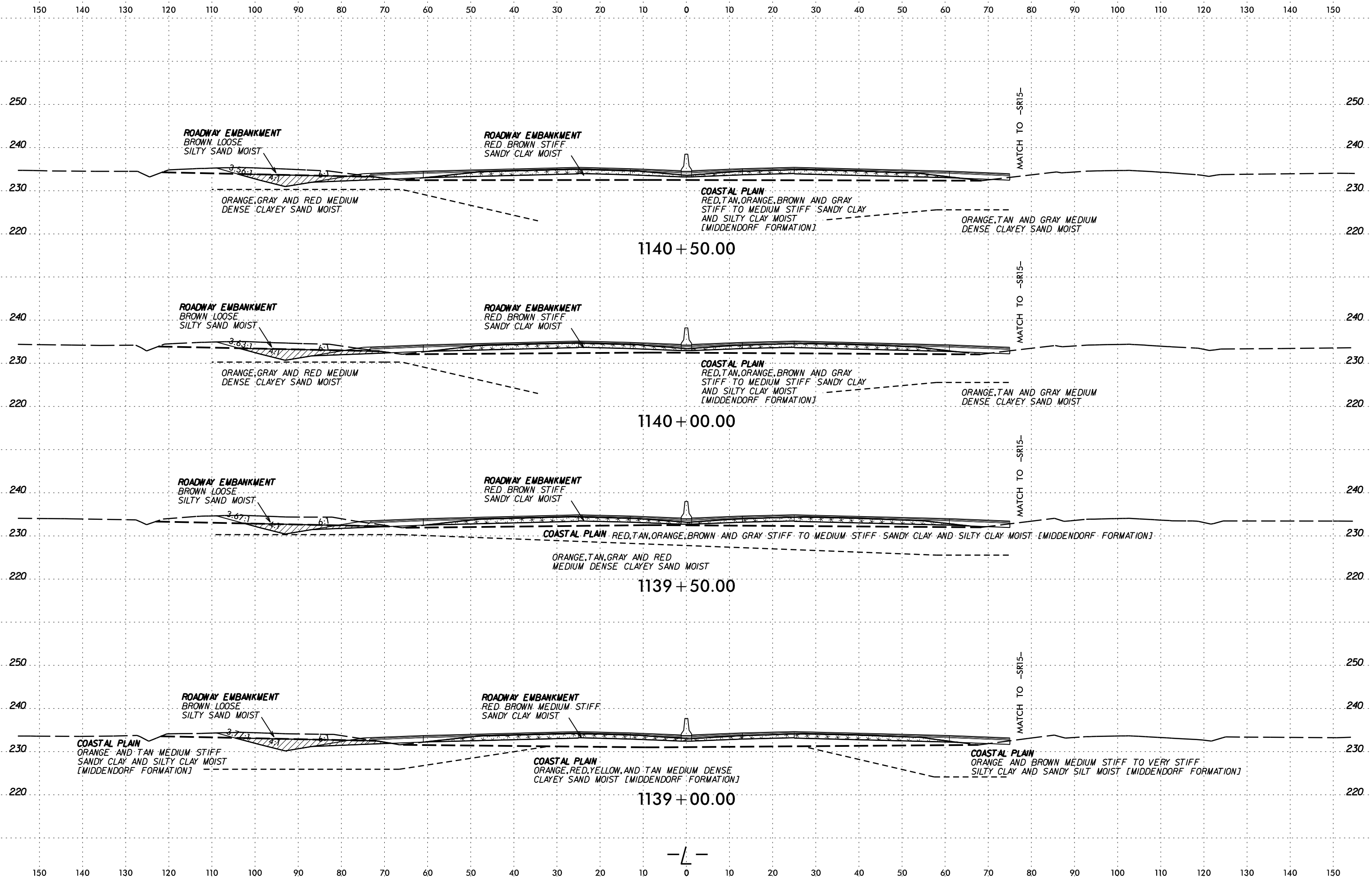
1134 + 50.00

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

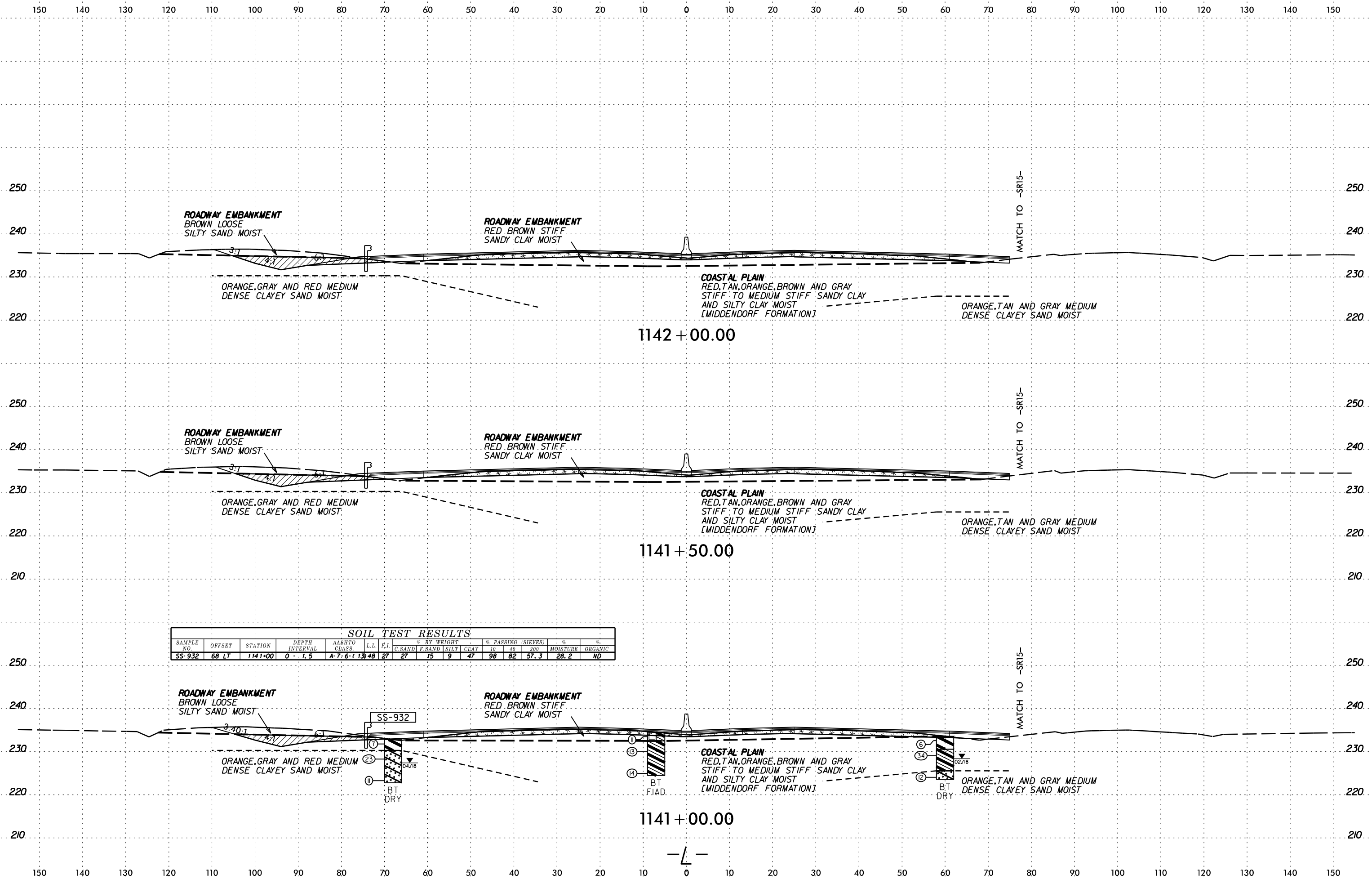
6/23/16



ALL RIGHTS RESERVED
 GEOTECHNICAL
 CONSULTING
 INC.
 1000
 UNIVERSITY
 AVENUE
 SUITE 100
 FORT WORTH, TX 76102
 (817) 339-8800
 WWW.GEOTECHCONSULTING.COM



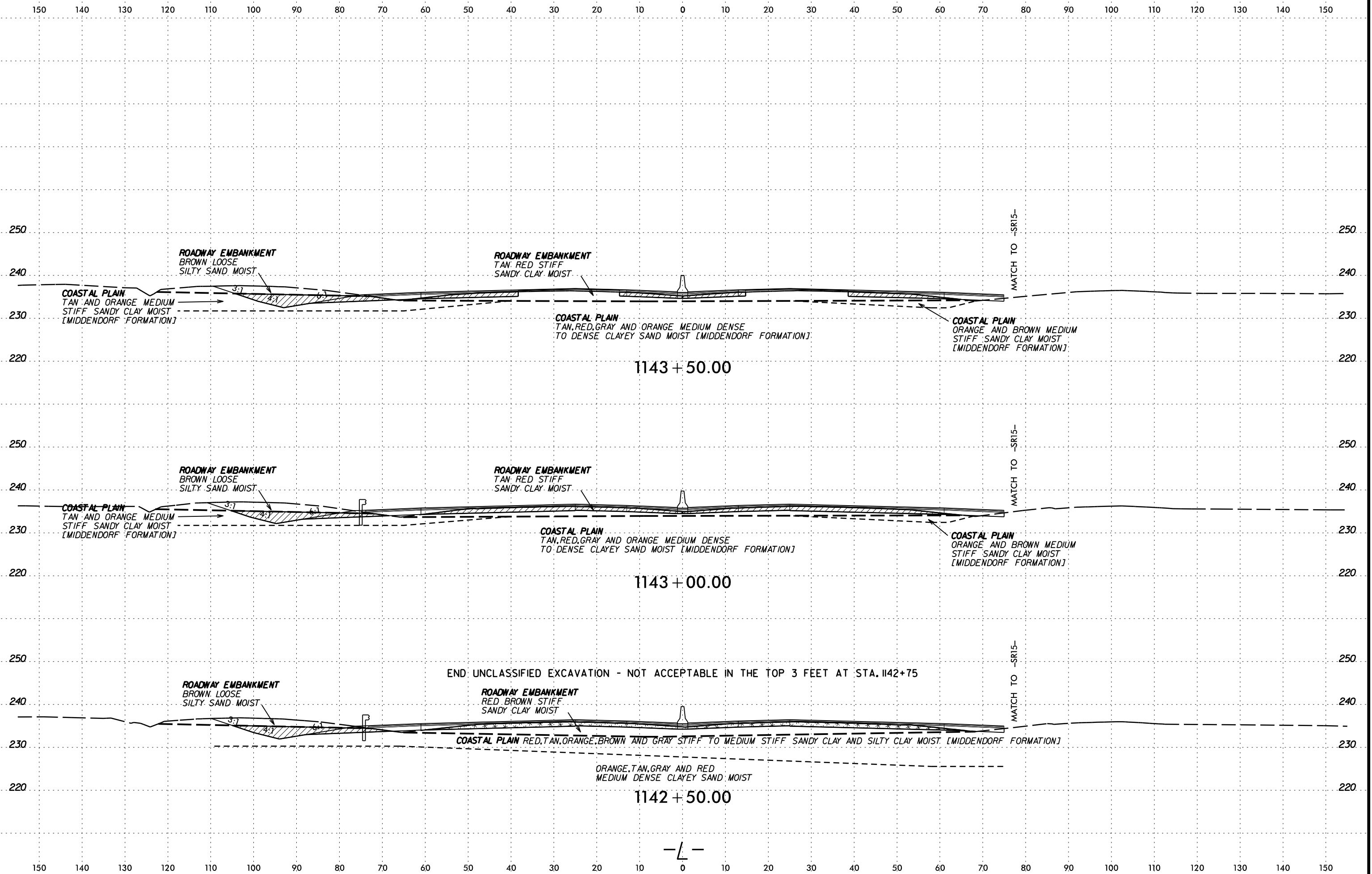
SECTION ON
SOUTH SIDE OF
ROADWAY



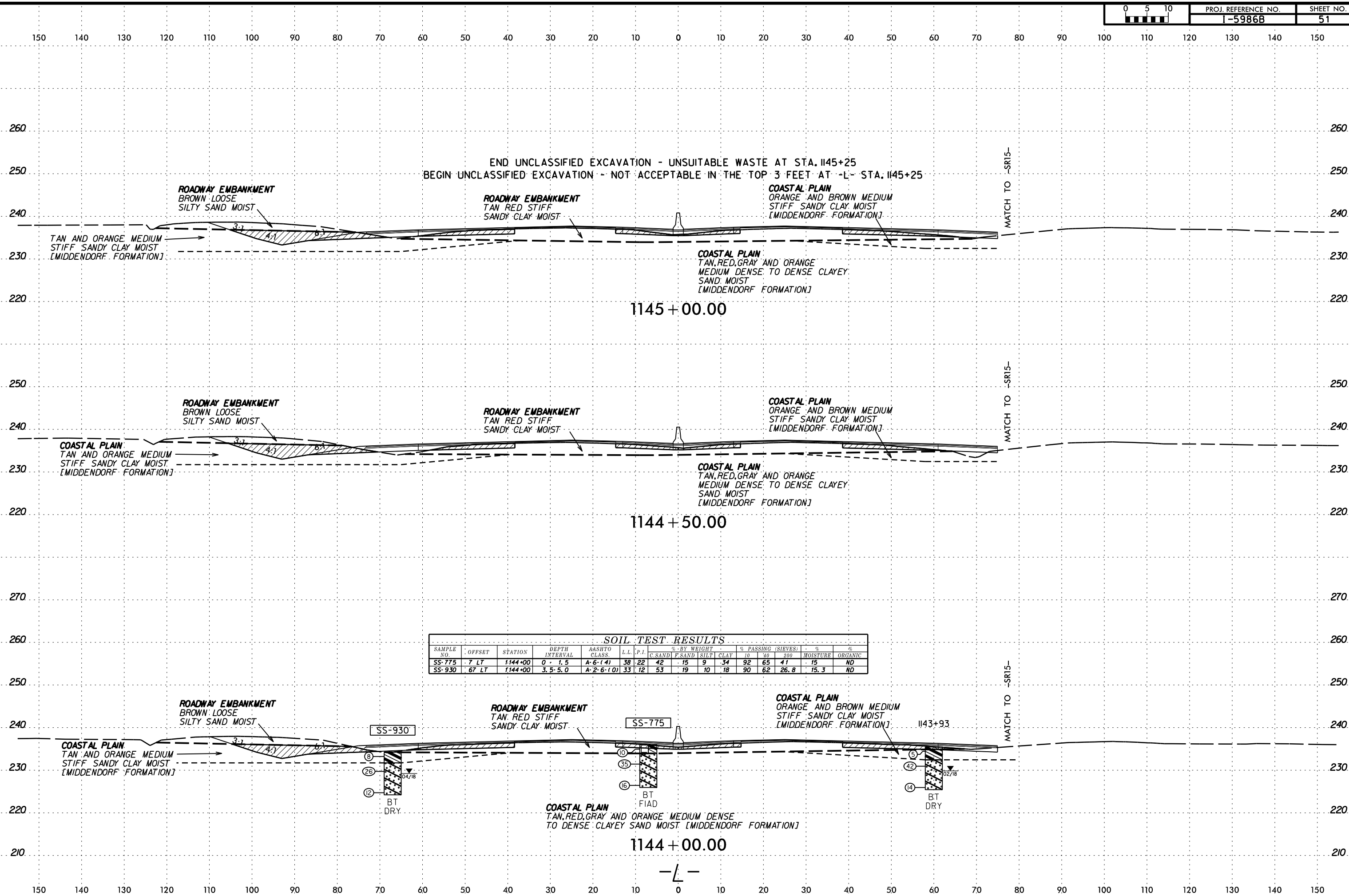
SOIL TEST RESULTS

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	200			
SS-932	68 LT	1141+00	0 - 1.5	A-7.6-1	13	48	27	15	9	47	98	82	57.3	28.2	ND

DATE TIME DRAWN CHECKED BY



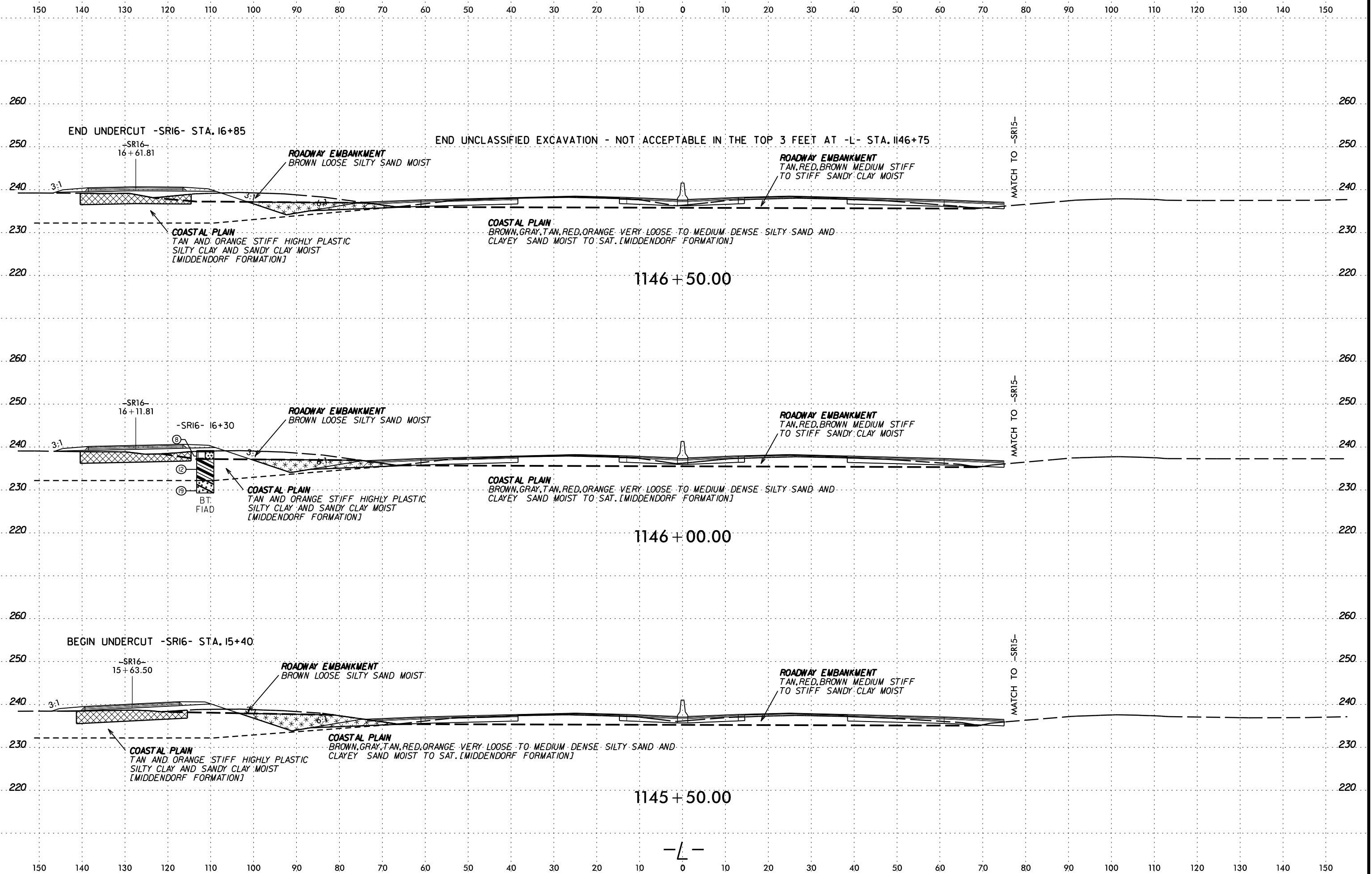
DATE: 6/23/16
BY: [illegible]
CHECKED: [illegible]
APPROVED: [illegible]



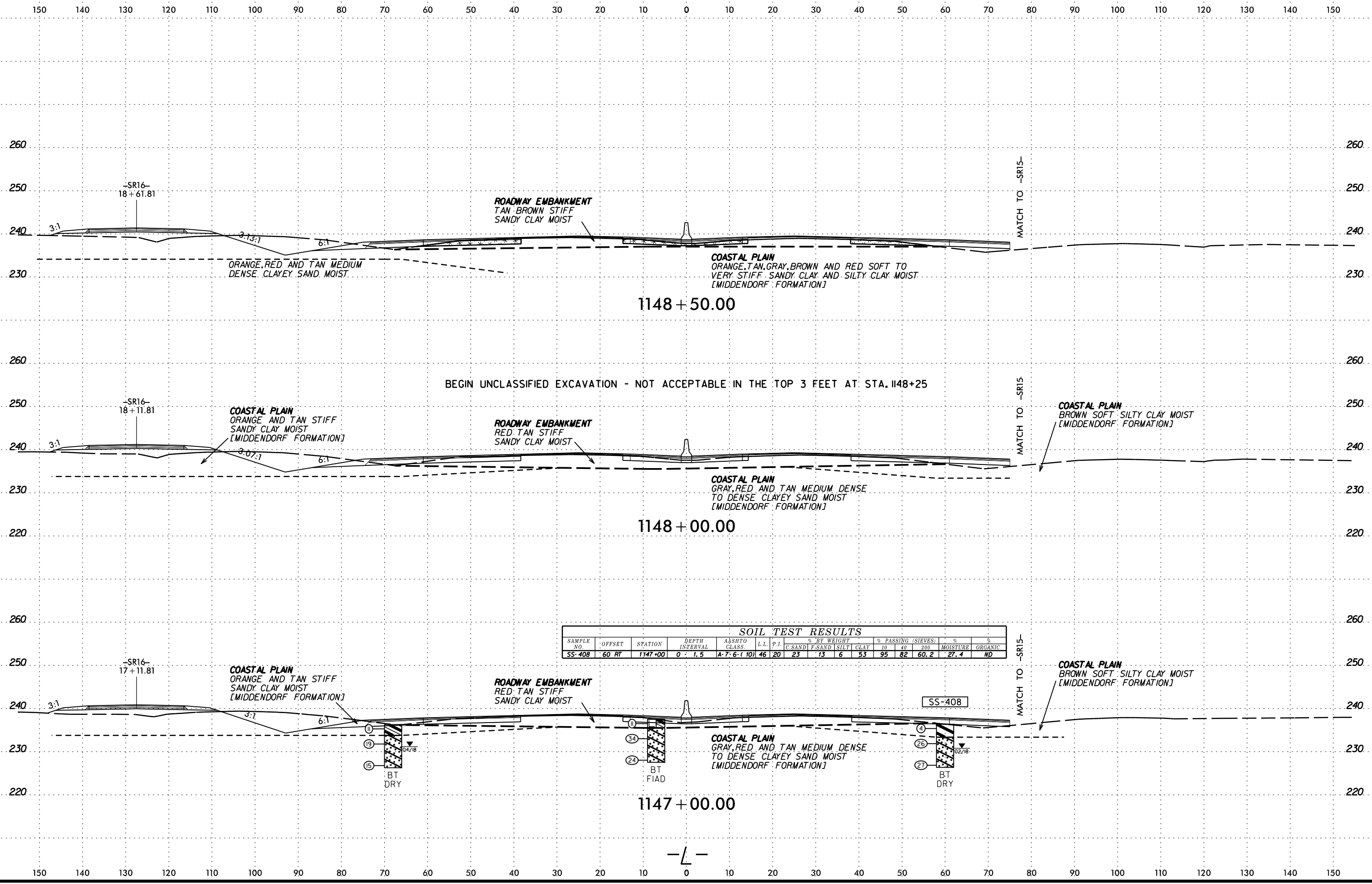
SOIL TEST RESULTS

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	200			
SS-775	7 LT	1144+00	0 - 1.5	A-6 (4)	38	22	42	15	9	34	92	65	41	15	ND
SS-930	67 LT	1144+00	3.5 - 5.0	A-2-6 (0)	33	12	53	19	10	18	90	62	26.8	15.3	ND

6/23/16
 COUNTY OF ALBANY
 ENGINEER
 J. J. BRYAN, P.E.
 1000 W. 10TH ST.
 ALBANY, NY 12207
 TEL: 518/862-4444
 FAX: 518/862-4445
 WWW.COUNTYALBANYENGINEERS.COM



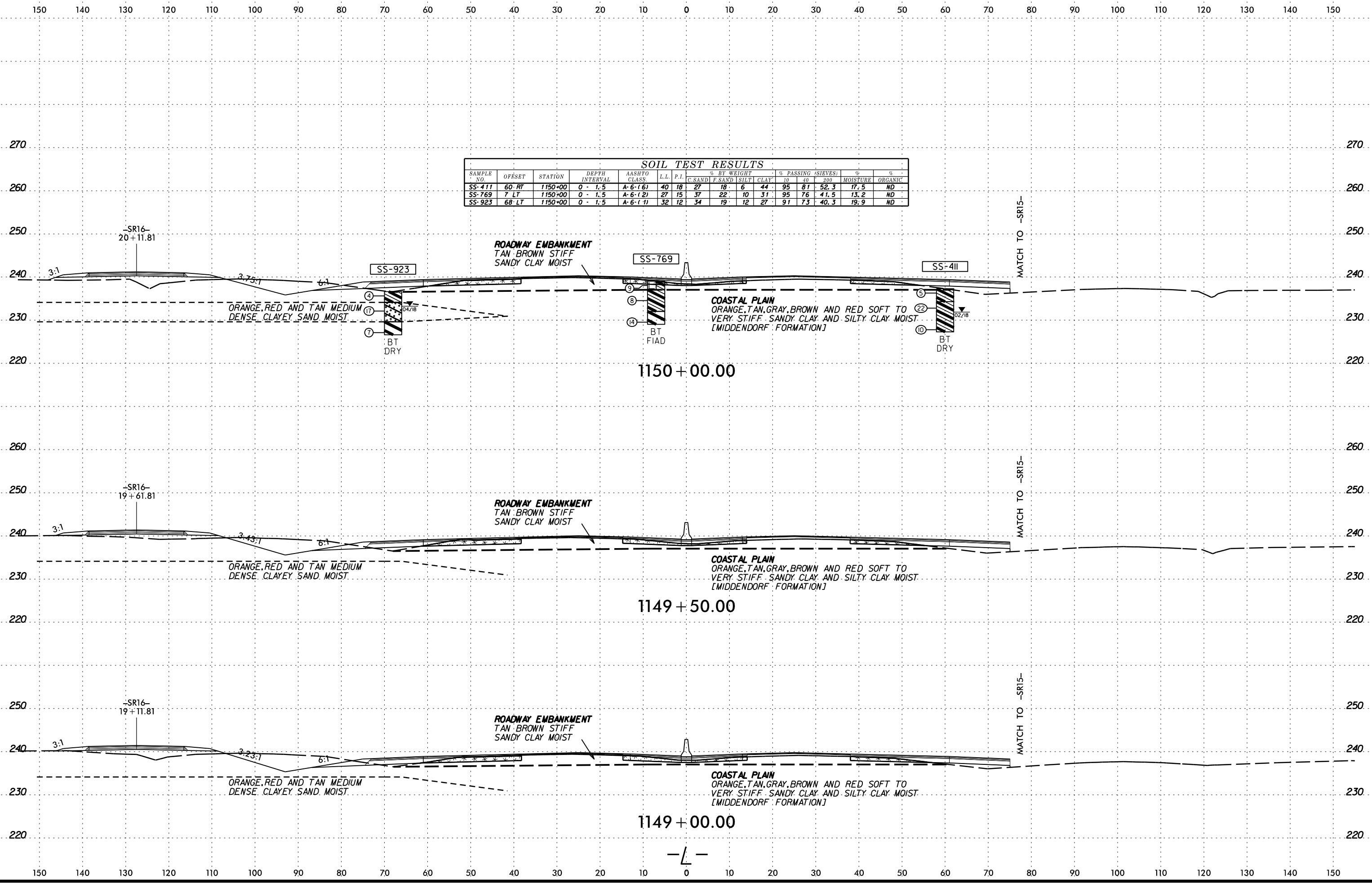
SYTIME
CON
LE
BR
NE



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-408	60 RT	1147+00	0 - 1.5	A-7-6-(10)	46	20	23	13	6	53	95	82	60.2	27.4	ND

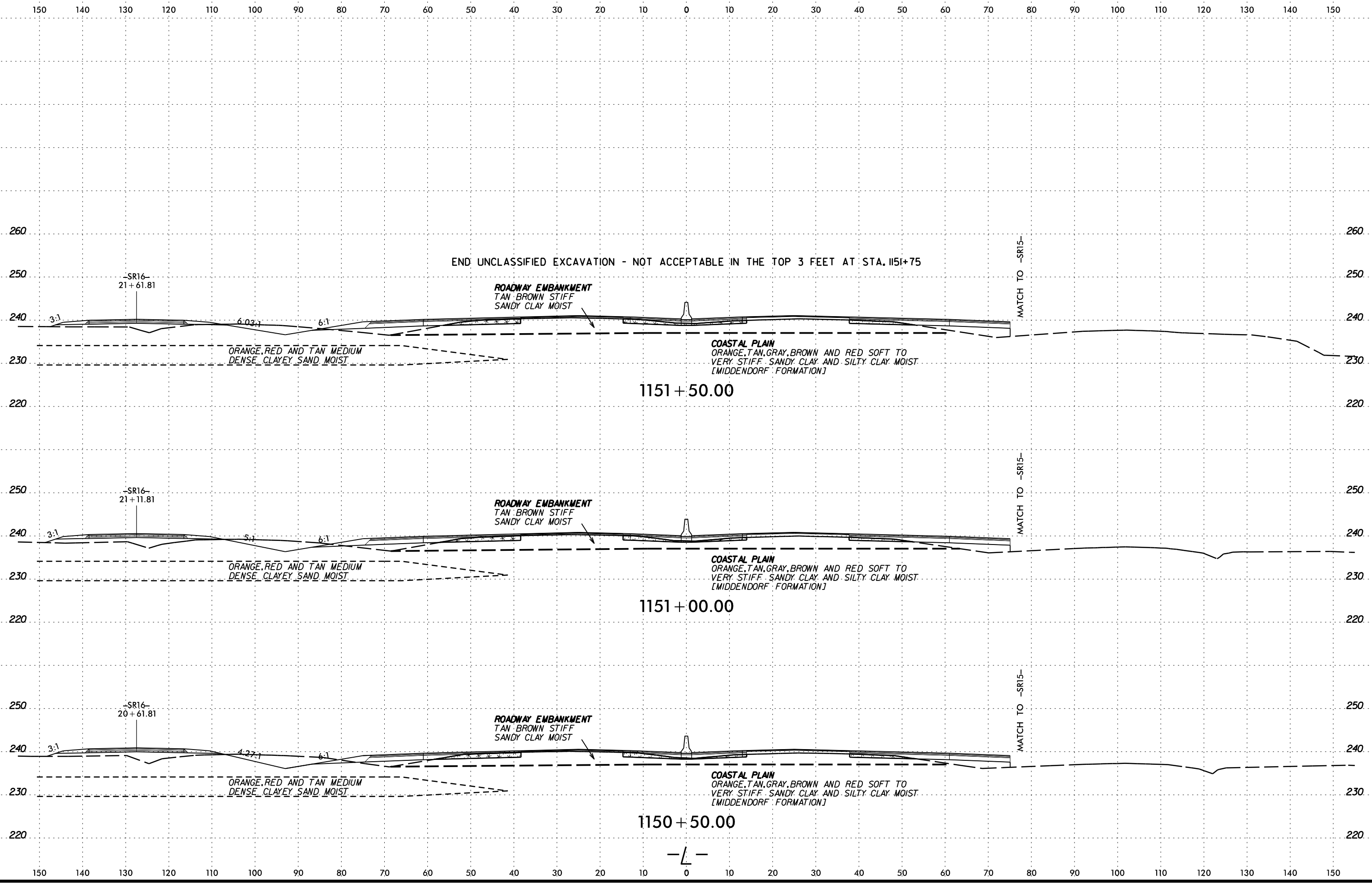
SCHEMATIC
 SECTION
 OF
 ROADWAY
 EMBANKMENT
 WITH
 EXISTING
 GROUND
 AND
 SOIL
 STRATA
 AT
 STATION
 1147+00.00



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	75	100	200			
SS-411	60 RT	1150+00	0 - 1.5	A-6 (6)	40	18	27	18	6	44	95	81	52.3	17.5	ND
SS-769	7 LT	1150+00	0 - 1.5	A-6 (2)	27	15	37	22	10	31	95	76	41.5	13.2	ND
SS-923	68 LT	1150+00	0 - 1.5	A-6 (1)	32	12	34	19	12	27	91	73	40.3	19.9	ND

SECTION 1149+00.00 TO 1149+50.00

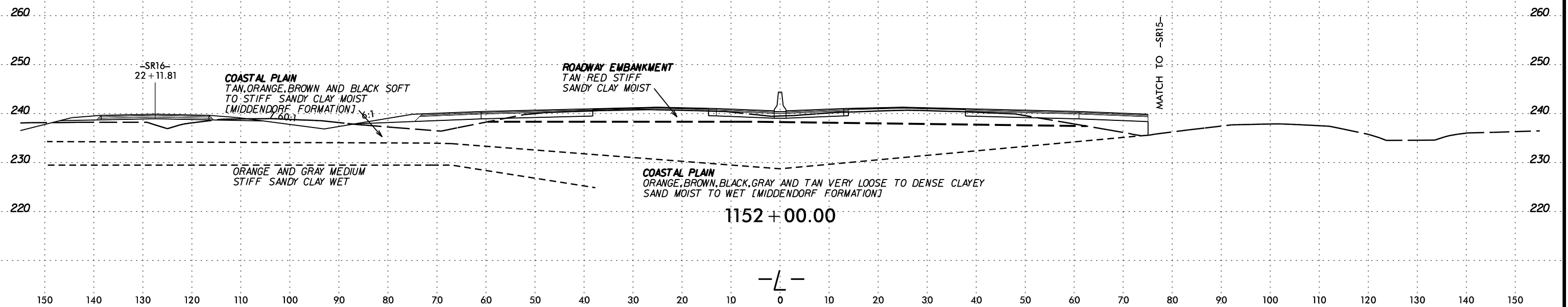
6/23/16



SYTIME
CON
LE
JUL
ARRIVE

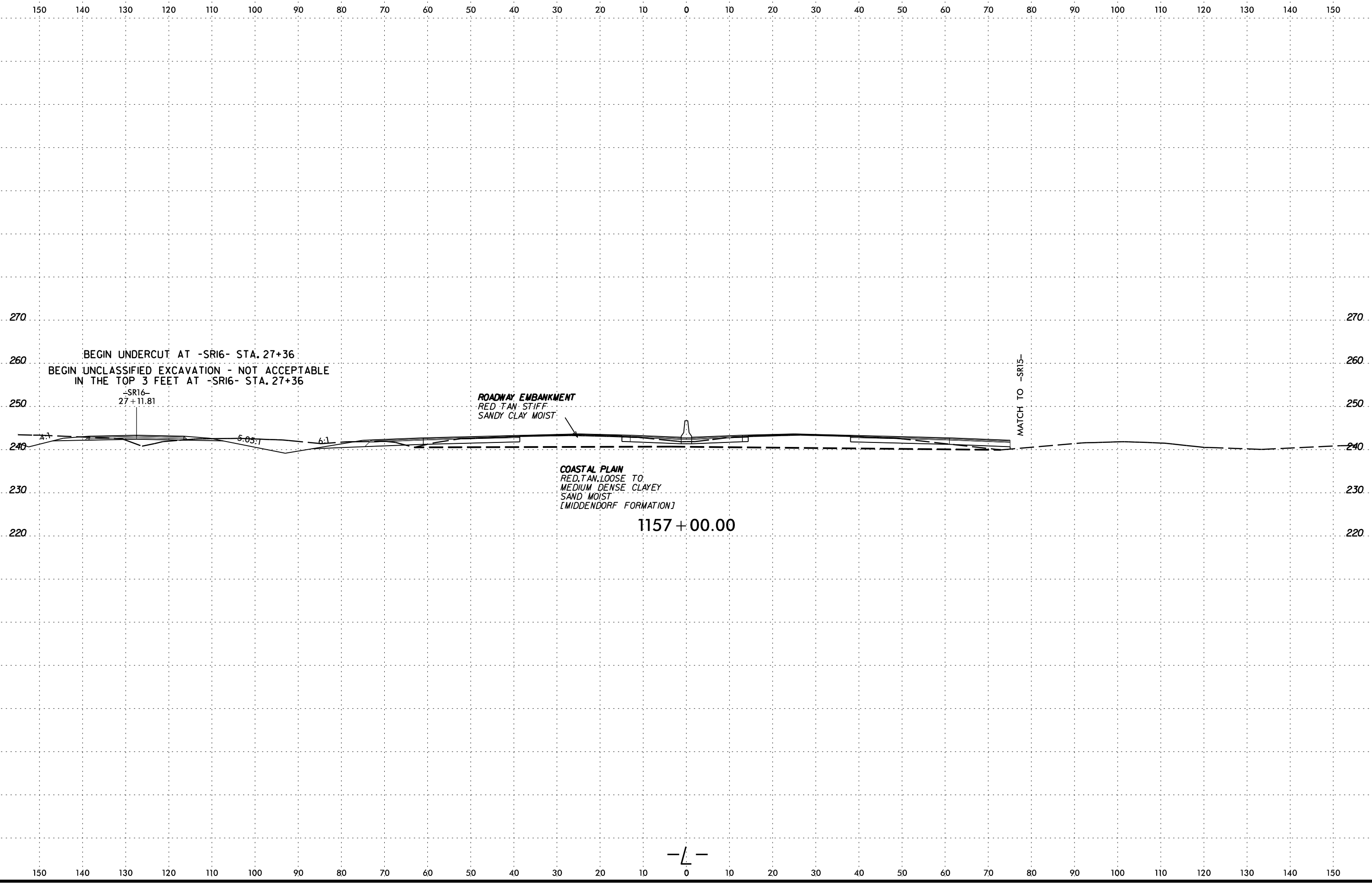
-L-

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



DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 APPROVED BY: [illegible]

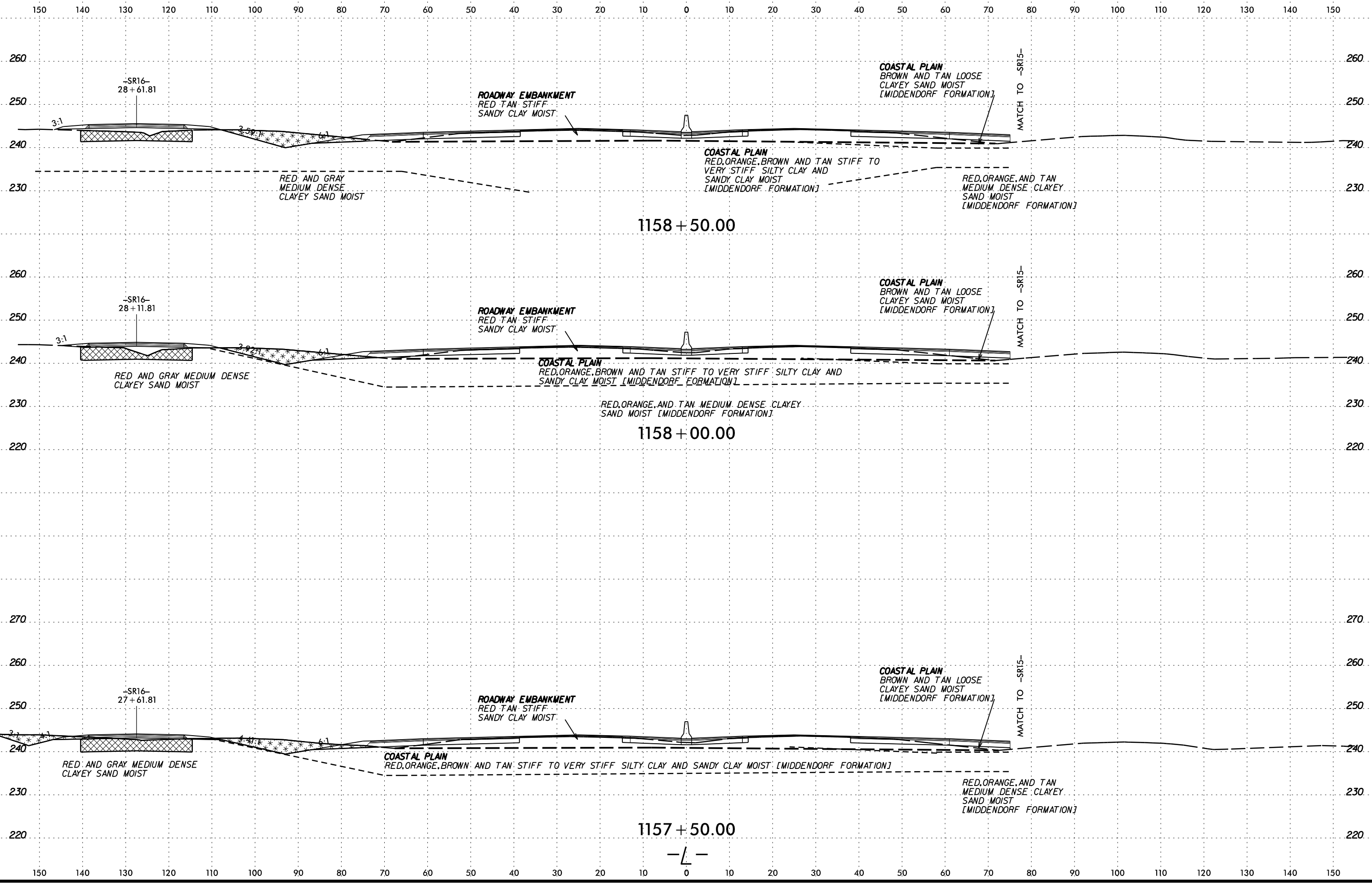
6/23/16



DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN
SHEET NO.: 57
PROJECT: I-5986B

-L-

6/23/16



-SR16-
28+61.81

ROADWAY EMBANKMENT
RED-TAN STIFF
SANDY CLAY MOIST

COASTAL PLAIN
BROWN AND TAN LOOSE
CLAYEY SAND MOIST
[MIDDENDORF FORMATION]

RED AND GRAY
MEDIUM DENSE
CLAYEY SAND MOIST

COASTAL PLAIN
RED, ORANGE, BROWN AND TAN STIFF TO
VERY STIFF SILTY CLAY AND
SANDY CLAY MOIST
[MIDDENDORF FORMATION]

RED, ORANGE, AND TAN
MEDIUM DENSE CLAYEY
SAND MOIST
[MIDDENDORF FORMATION]

1158+50.00

-SR16-
28+11.81

ROADWAY EMBANKMENT
RED-TAN STIFF
SANDY CLAY MOIST

COASTAL PLAIN
BROWN AND TAN LOOSE
CLAYEY SAND MOIST
[MIDDENDORF FORMATION]

RED AND GRAY MEDIUM DENSE
CLAYEY SAND MOIST

COASTAL PLAIN
RED, ORANGE, BROWN AND TAN STIFF TO VERY STIFF SILTY CLAY AND
SANDY CLAY MOIST [MIDDENDORF FORMATION]

RED, ORANGE, AND TAN MEDIUM DENSE CLAYEY
SAND MOIST [MIDDENDORF FORMATION]

1158+00.00

-SR16-
27+61.81

ROADWAY EMBANKMENT
RED-TAN STIFF
SANDY CLAY MOIST

COASTAL PLAIN
BROWN AND TAN LOOSE
CLAYEY SAND MOIST
[MIDDENDORF FORMATION]

RED AND GRAY MEDIUM DENSE
CLAYEY SAND MOIST

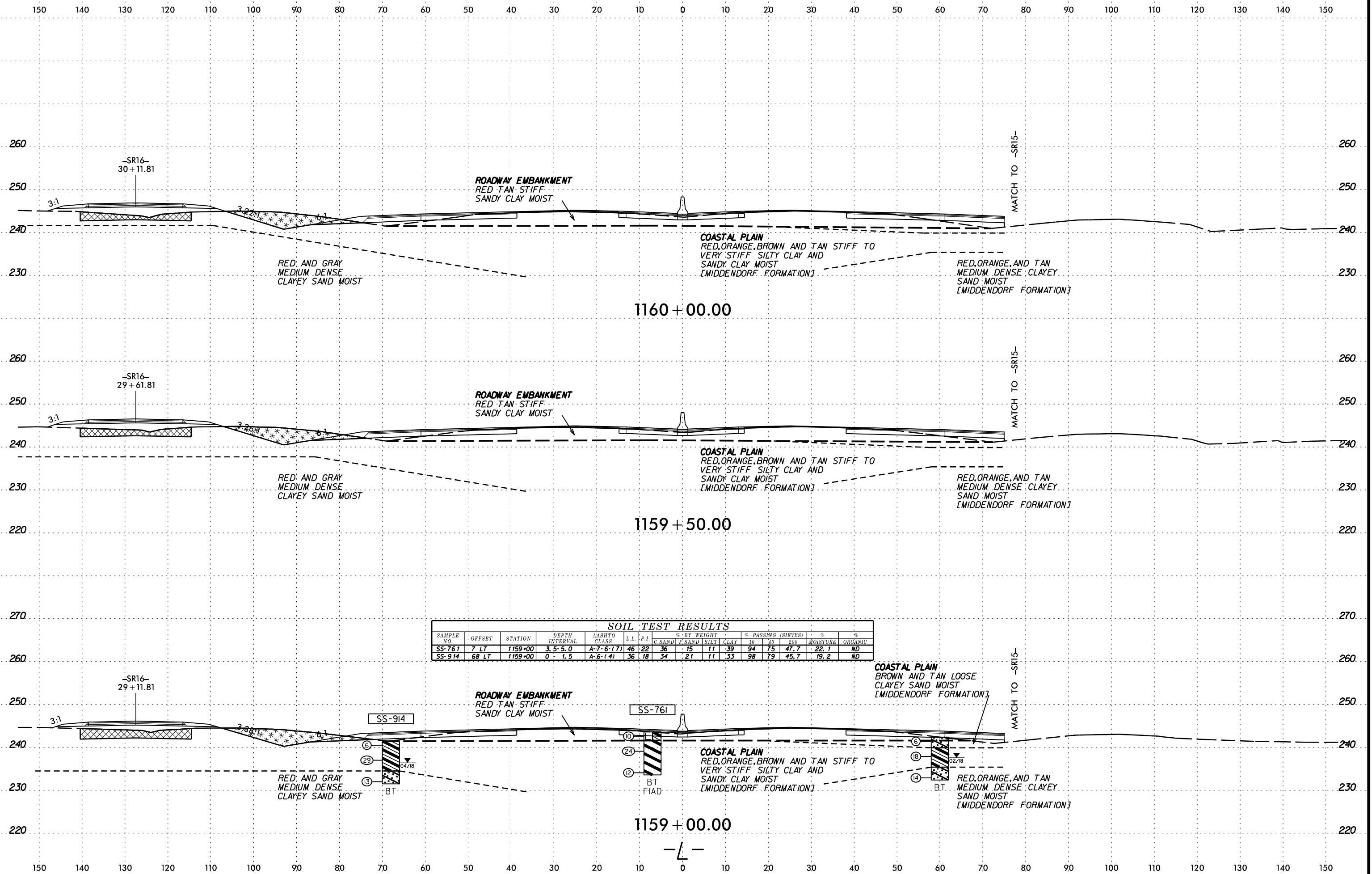
COASTAL PLAIN
RED, ORANGE, BROWN AND TAN STIFF TO VERY STIFF SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

RED, ORANGE, AND TAN
MEDIUM DENSE CLAYEY
SAND MOIST
[MIDDENDORF FORMATION]

1157+50.00

STRUCTURE

-L-

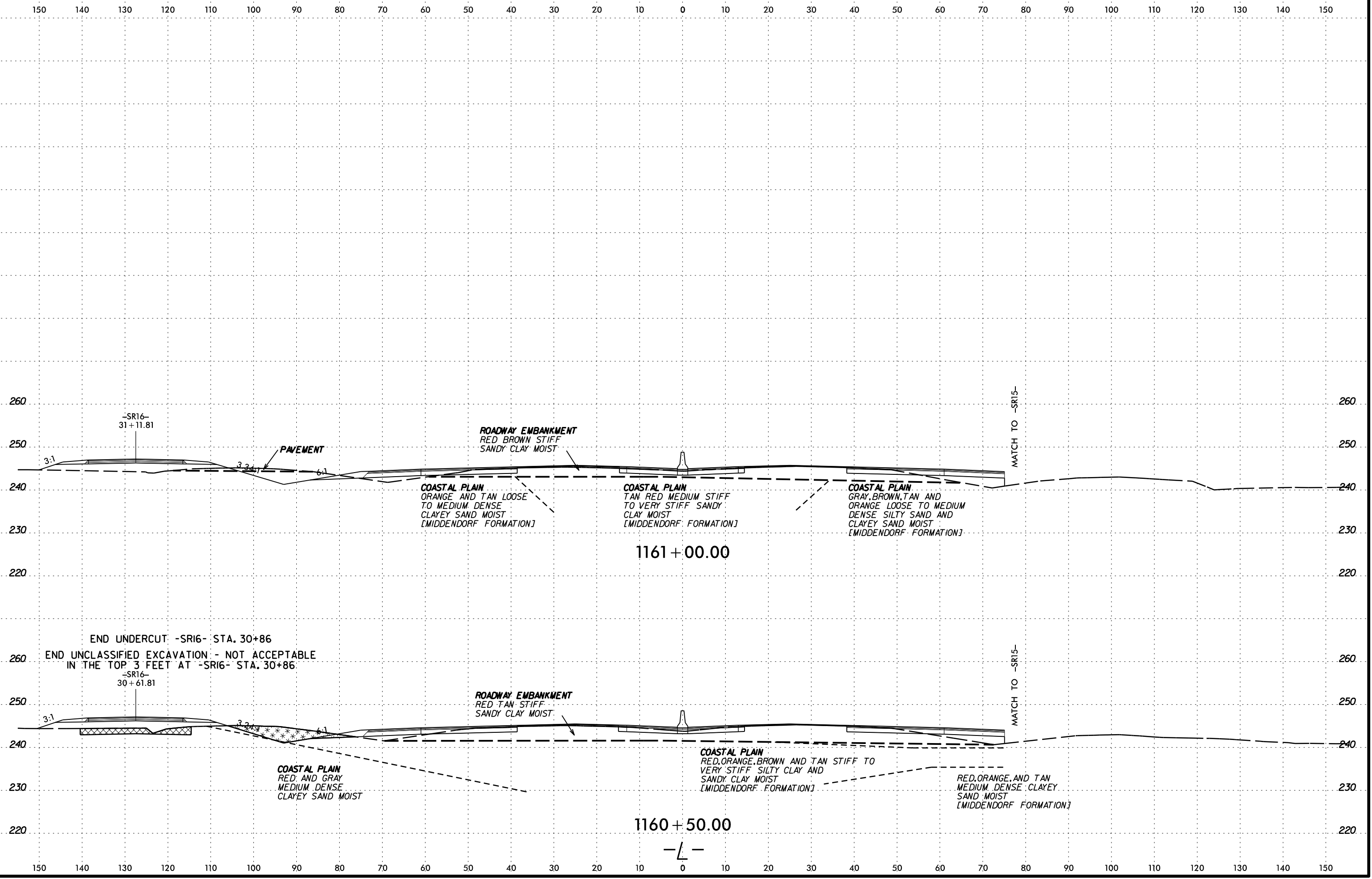


SOIL TEST RESULTS

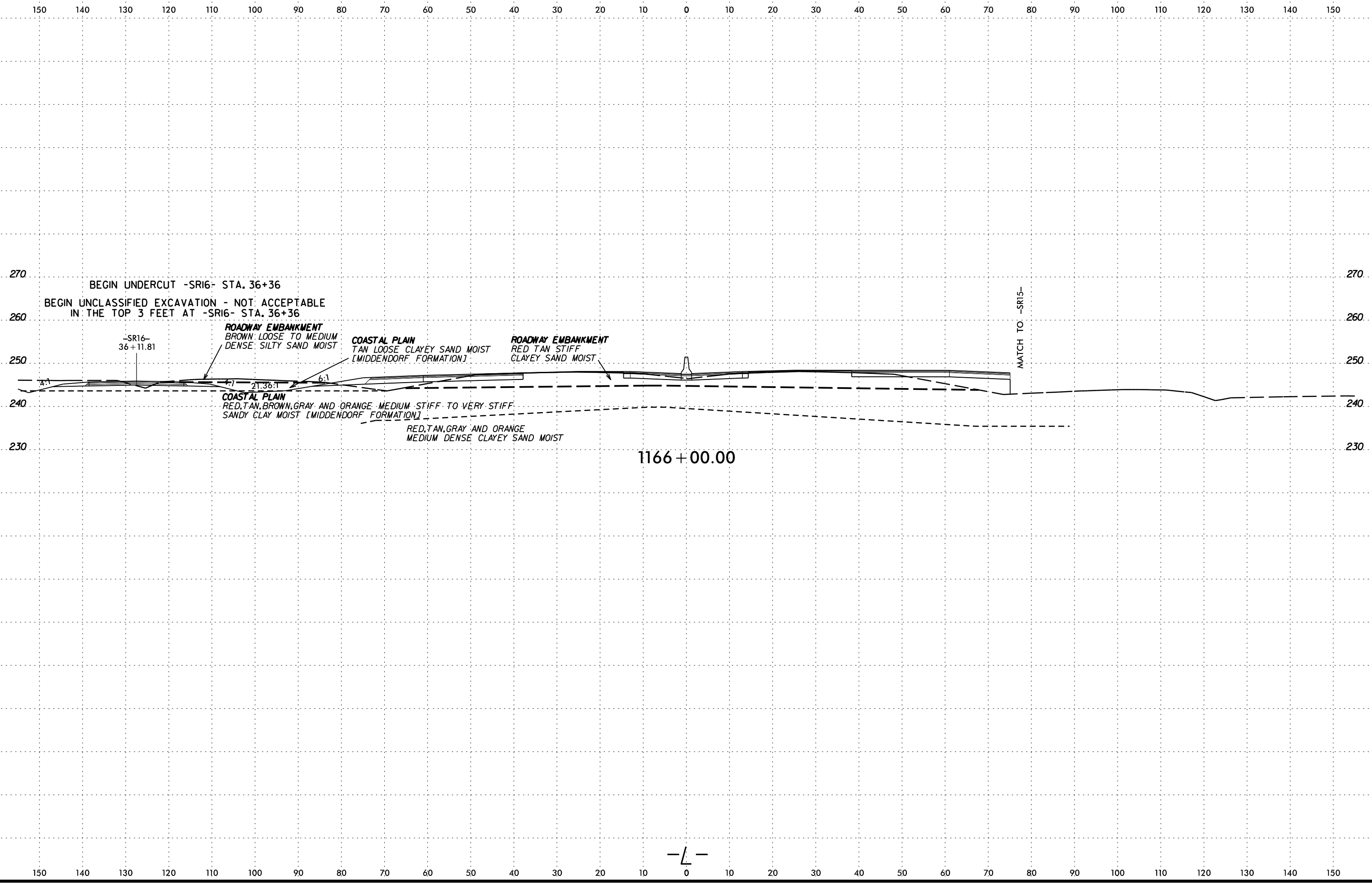
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C SAND	F SAND	SILT	CLAY	10	200			
SS-761	7 LT	1159+00	3.5-5.0	A-7-6 (7)	46	22	36	15	11	39	94	75	47.7	22.1	ND
SS-914	68 LT	1159+00	0-1.5	A-6-1 (4)	36	18	34	21	11	33	98	79	45.7	19.2	ND

SCHEMATIC SECTION
 1159+00.00
 1159+50.00
 1160+00.00

6/23/16



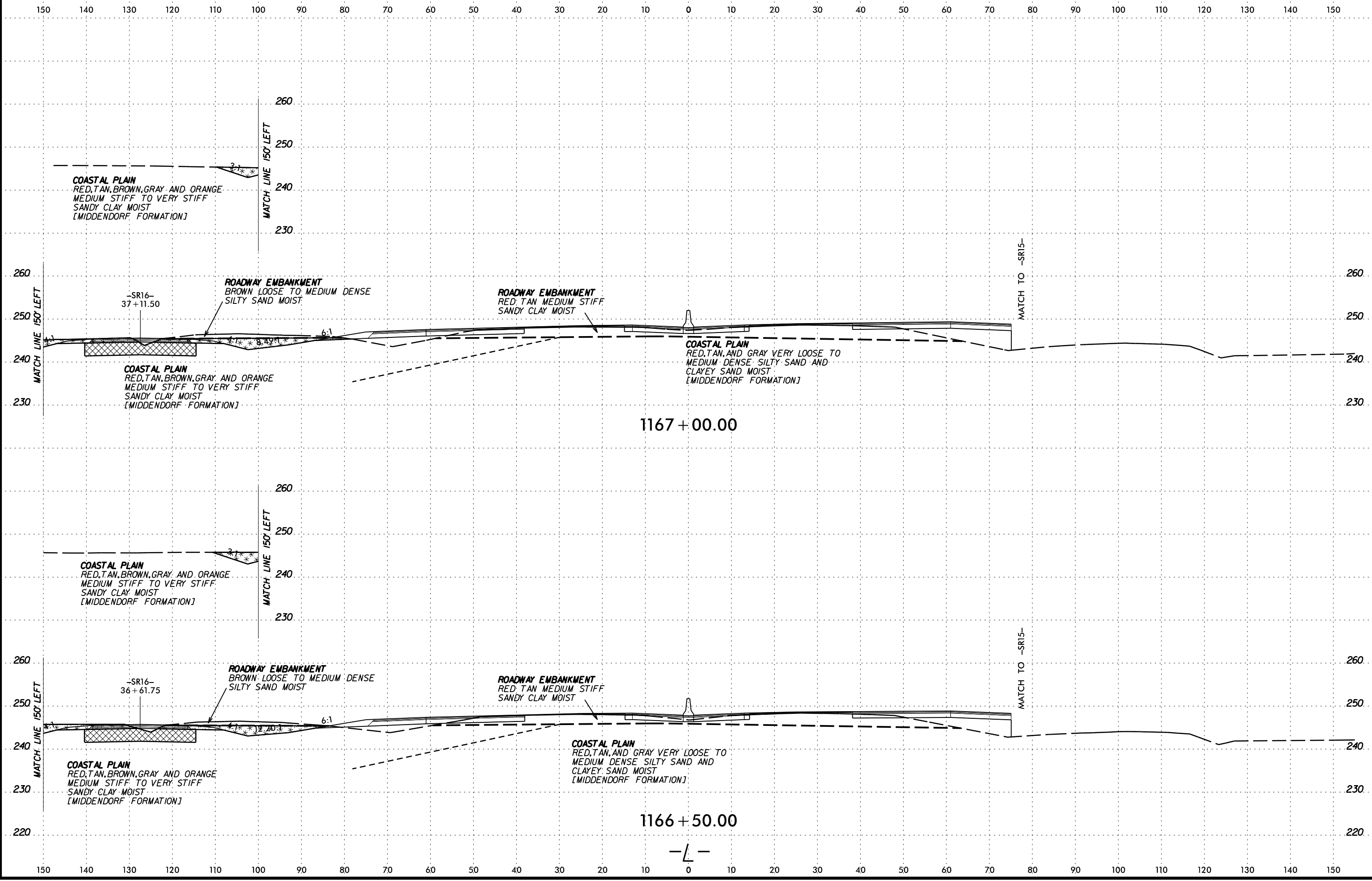
6/23/16



DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN
SHEET NO.: 61

-L-

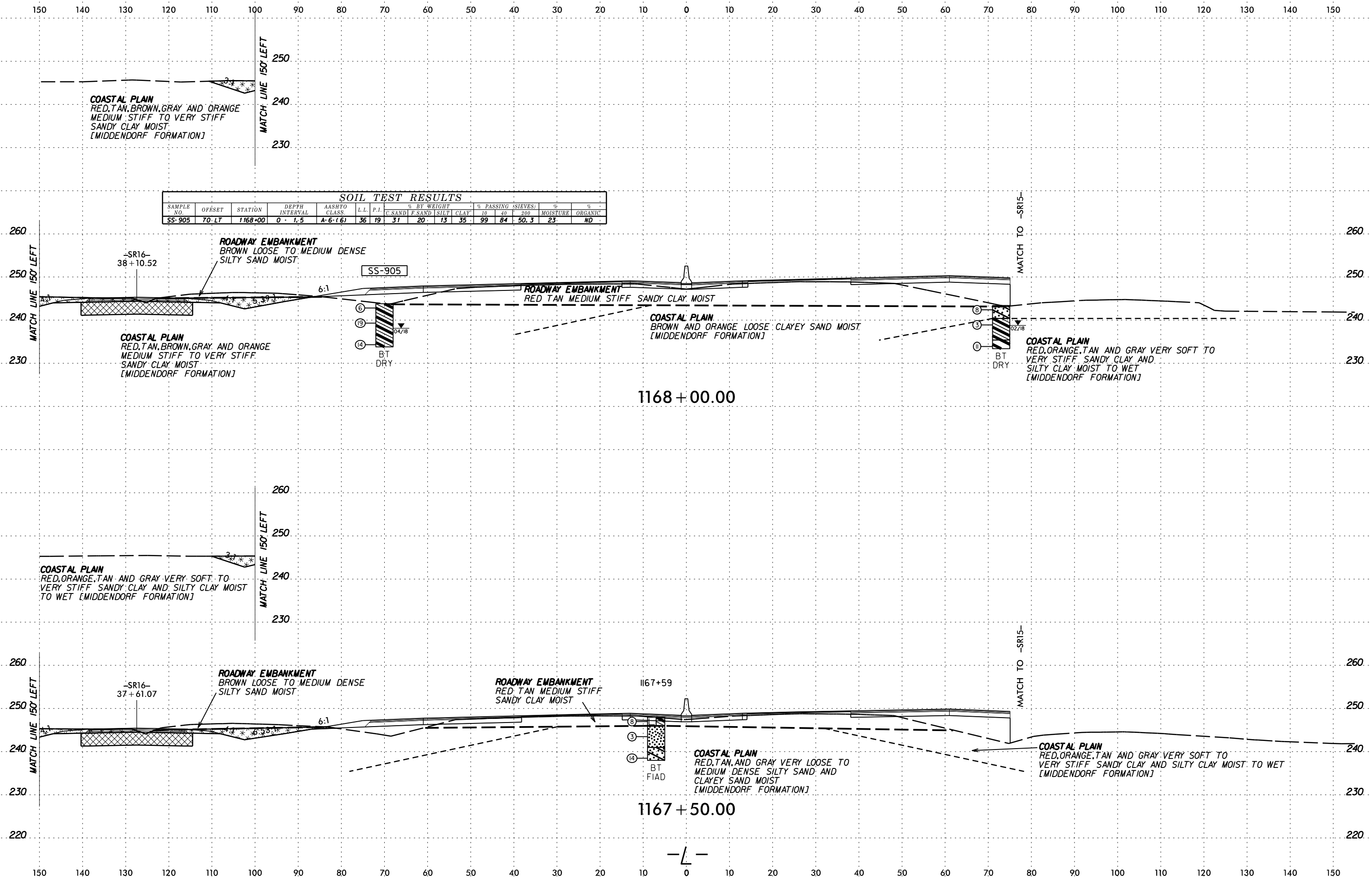
6/23/16



1167+00.00

1166+50.00

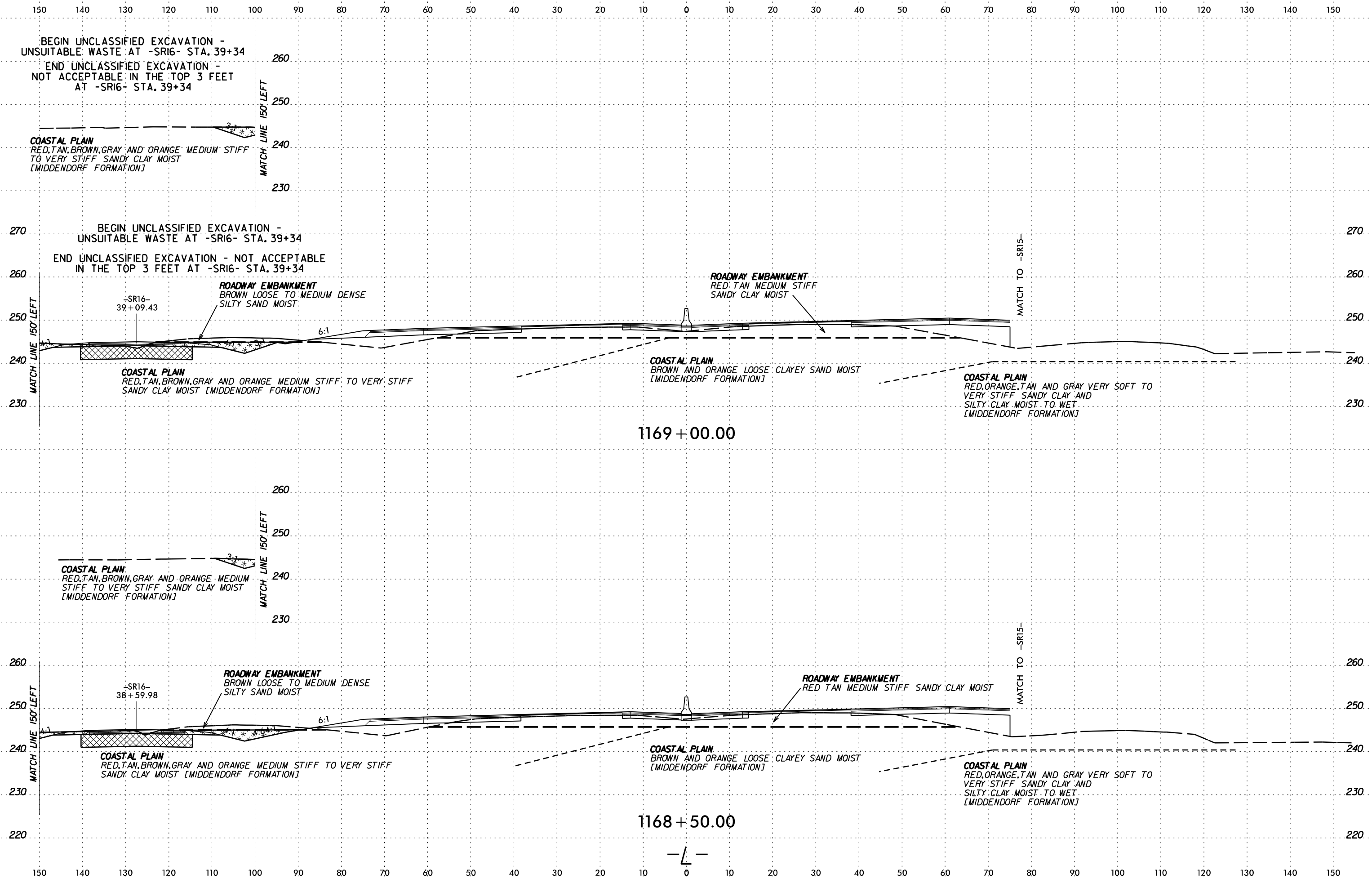
-L-



SOIL TEST RESULTS

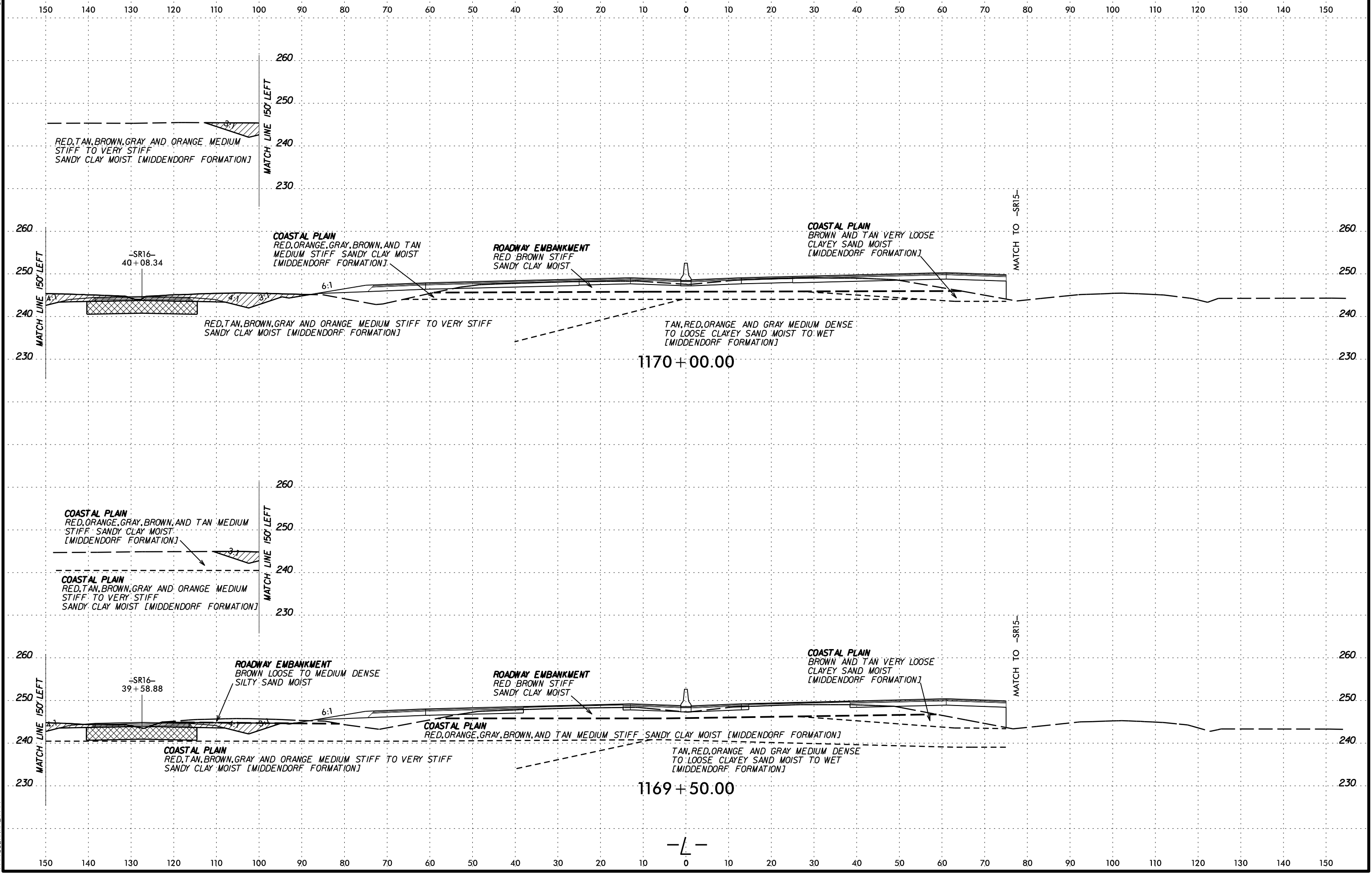
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
SS-905	70 LT	1168+00	0 - 1.5	A-6 (6)	36	19	31	20	13	35	99	84	50.3	23	ND

SYSTEM: \$\$\$\$\$\$
 DRAWN: \$\$\$\$\$\$
 CHECKED: \$\$\$\$\$\$
 DATE: \$\$\$\$\$\$
 PROJECT: \$\$\$\$\$\$
 SHEET: \$\$\$\$\$\$

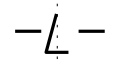


SYTIME
DOWN
JULY
ARRIVE

6/23/16



SYTIME
CON
ARRANGE



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

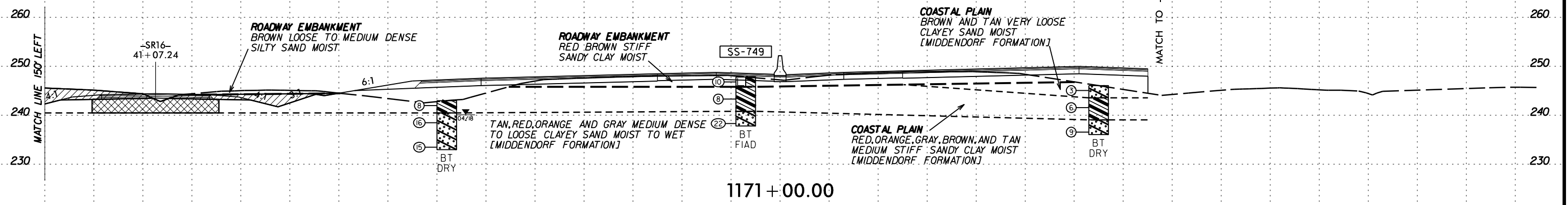
COASTAL PLAIN
RED, ORANGE, GRAY, BROWN, AND TAN
MEDIUM STIFF SANDY CLAY MOIST
[MIDDENDORF FORMATION]

TAN, RED, ORANGE, AND GRAY MEDIUM DENSE
TO LOOSE CLAYEY SAND MOIST TO WET
[MIDDENDORF FORMATION]

MATCH LINE 150' LEFT

260
250
240
230

SOIL TEST RESULTS																
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	LL	PI	% BY WEIGHT				% PASSING (SIEVES)				% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	40	40	200			
SS-749	7 LT	1171+00	3.5-5.0	A-6 (9)	38	22	25	22	13	40	100	88	55.9	22.9	ND	

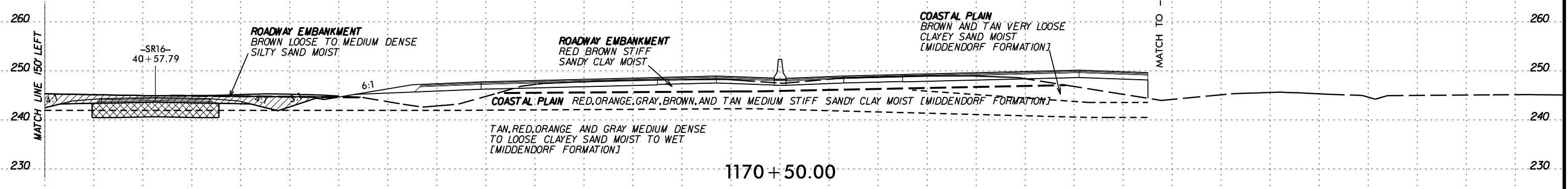


COASTAL PLAIN
RED, ORANGE, GRAY, BROWN, AND TAN MEDIUM
STIFF SANDY CLAY MOIST
[MIDDENDORF FORMATION]

TAN, RED, ORANGE, AND GRAY MEDIUM DENSE
TO LOOSE CLAYEY SAND MOIST TO WET
[MIDDENDORF FORMATION]

MATCH LINE 150' LEFT

260
250
240
230

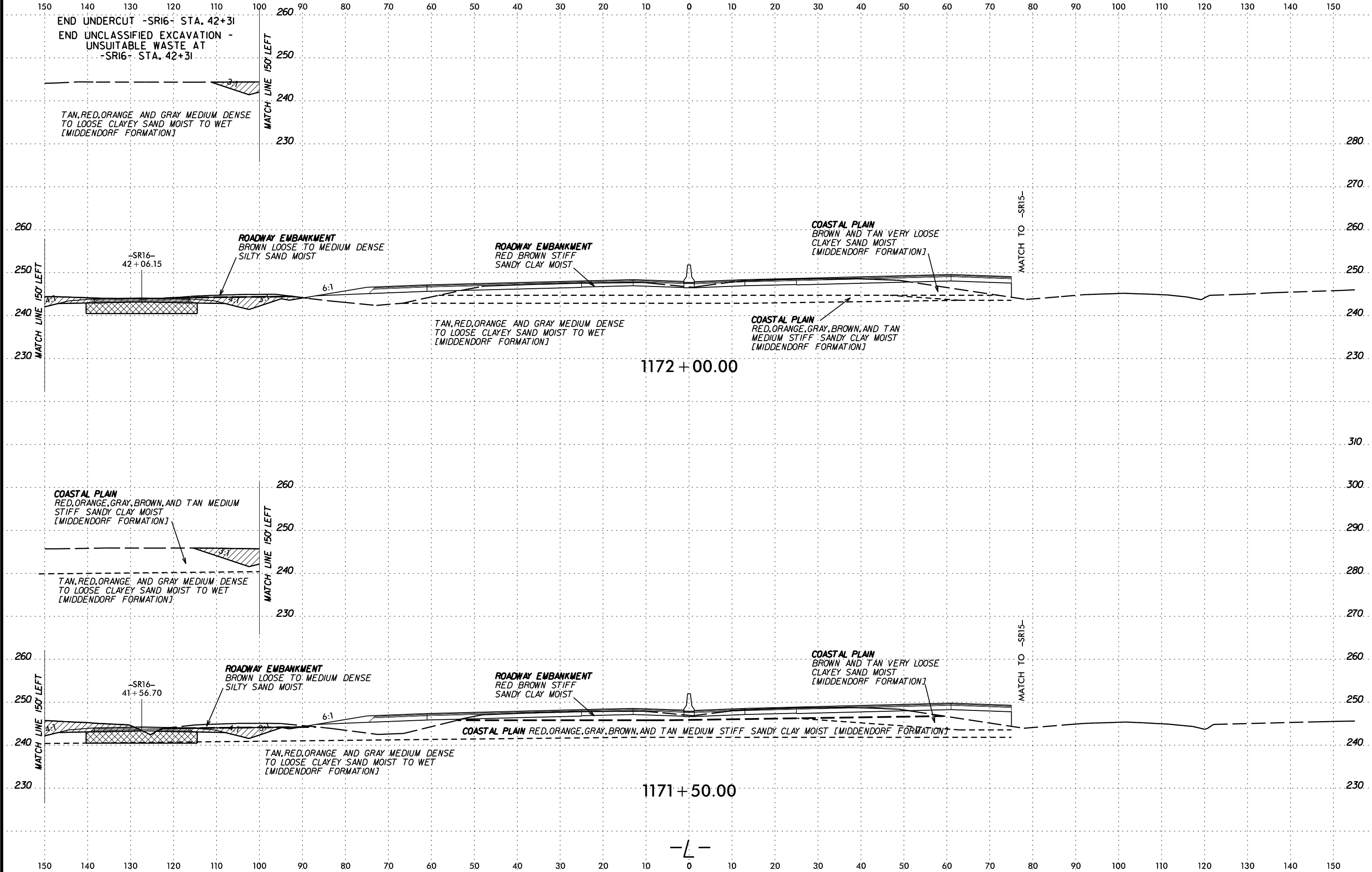


COASTAL PLAIN RED, ORANGE, GRAY, BROWN, AND TAN MEDIUM STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]

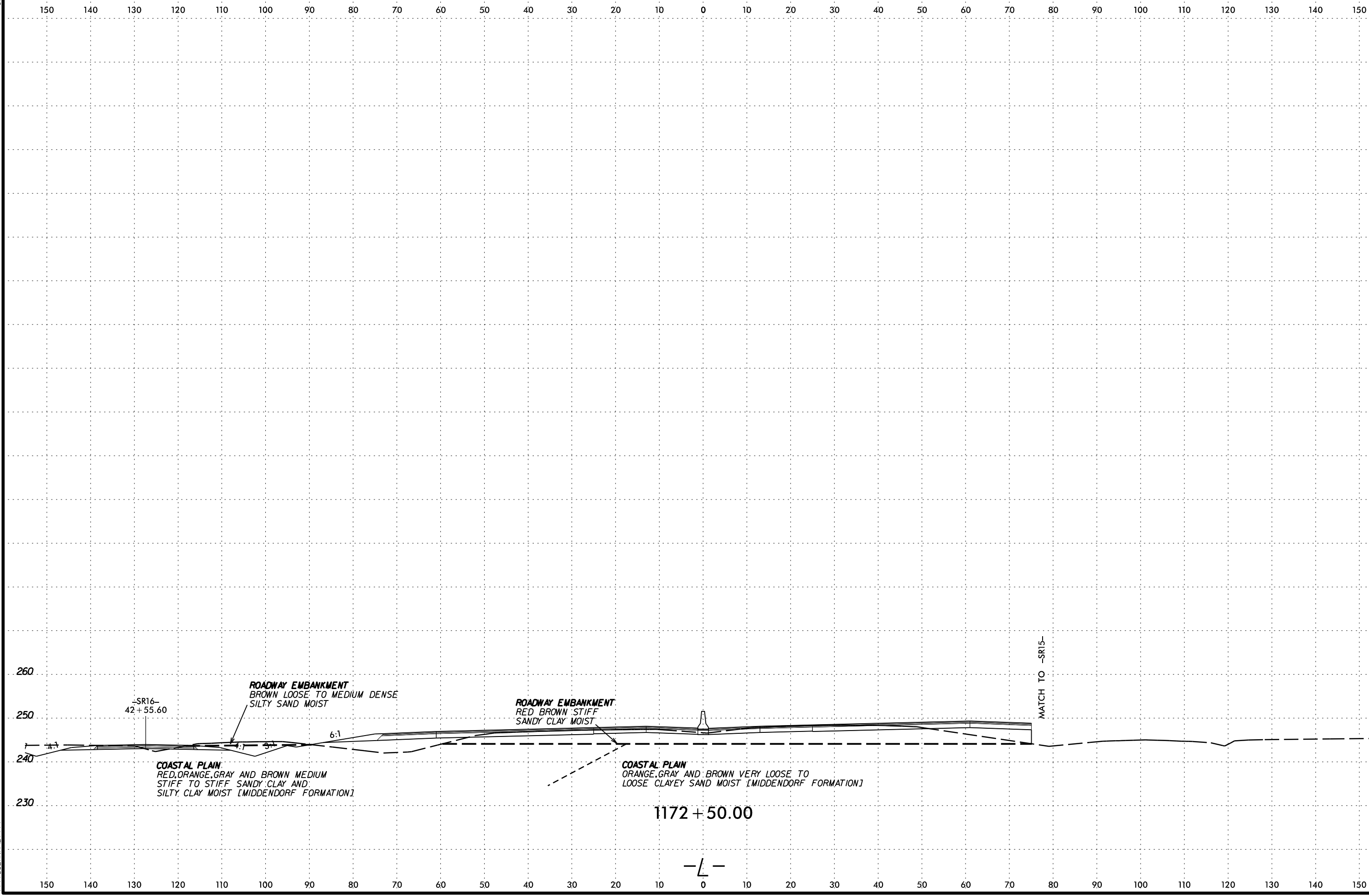
TAN, RED, ORANGE, AND GRAY MEDIUM DENSE
TO LOOSE CLAYEY SAND MOIST TO WET
[MIDDENDORF FORMATION]

MATCH LINE 150' LEFT

260
250
240
230



6/23/16



-SR16-
42+55.60

ROADWAY EMBANKMENT
BROWN LOOSE TO MEDIUM DENSE
SILTY SAND MOIST

ROADWAY EMBANKMENT
RED BROWN STIFF
SANDY CLAY MOIST

MATCH TO -SR15-

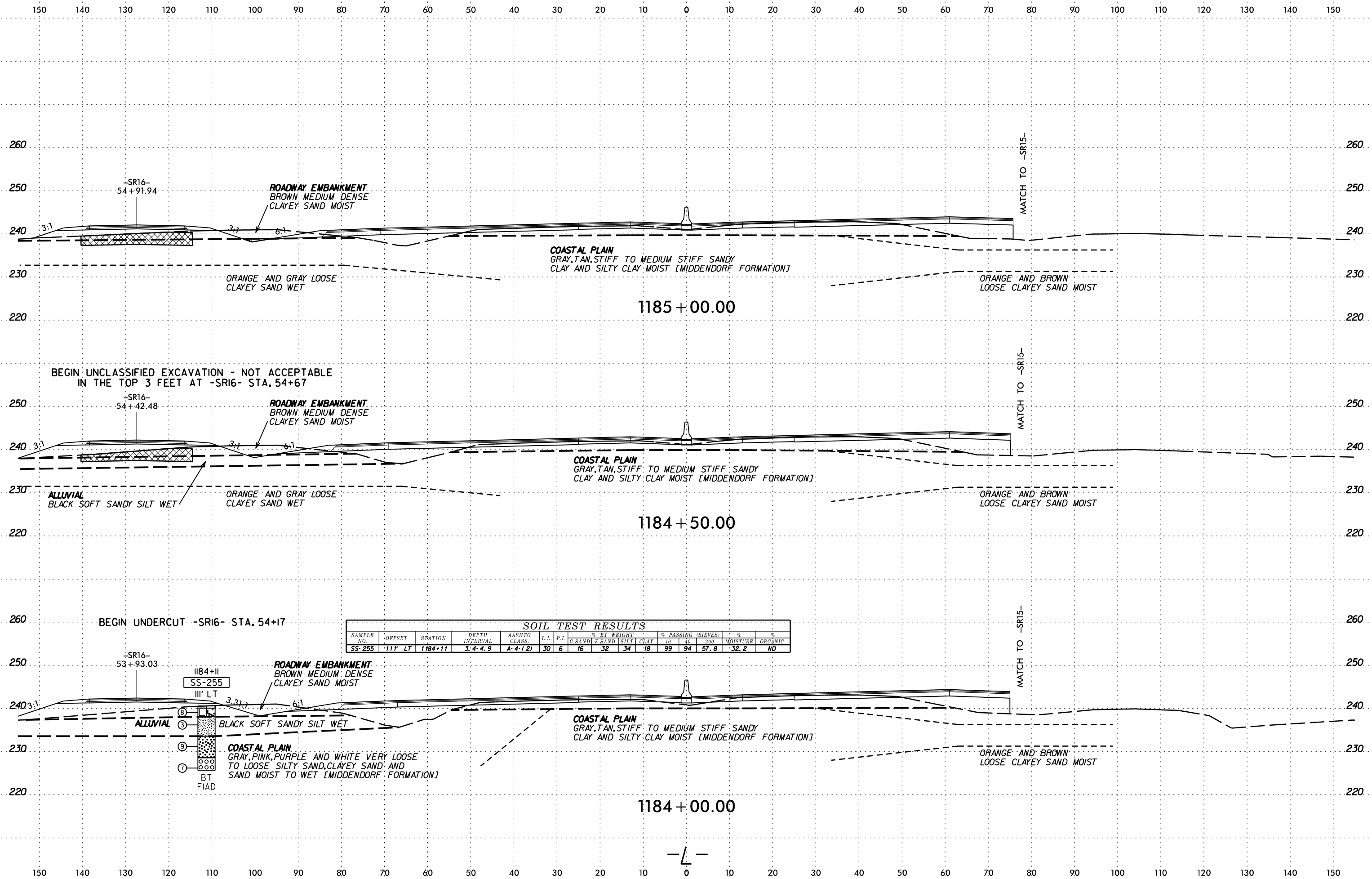
COASTAL PLAIN
RED, ORANGE, GRAY AND BROWN MEDIUM
STIFF TO STIFF SANDY CLAY AND
SILTY CLAY MOIST [MIDDENDORF FORMATION]

COASTAL PLAIN
ORANGE, GRAY AND BROWN VERY LOOSE TO
LOOSE CLAYEY SAND MOIST [MIDDENDORF FORMATION]

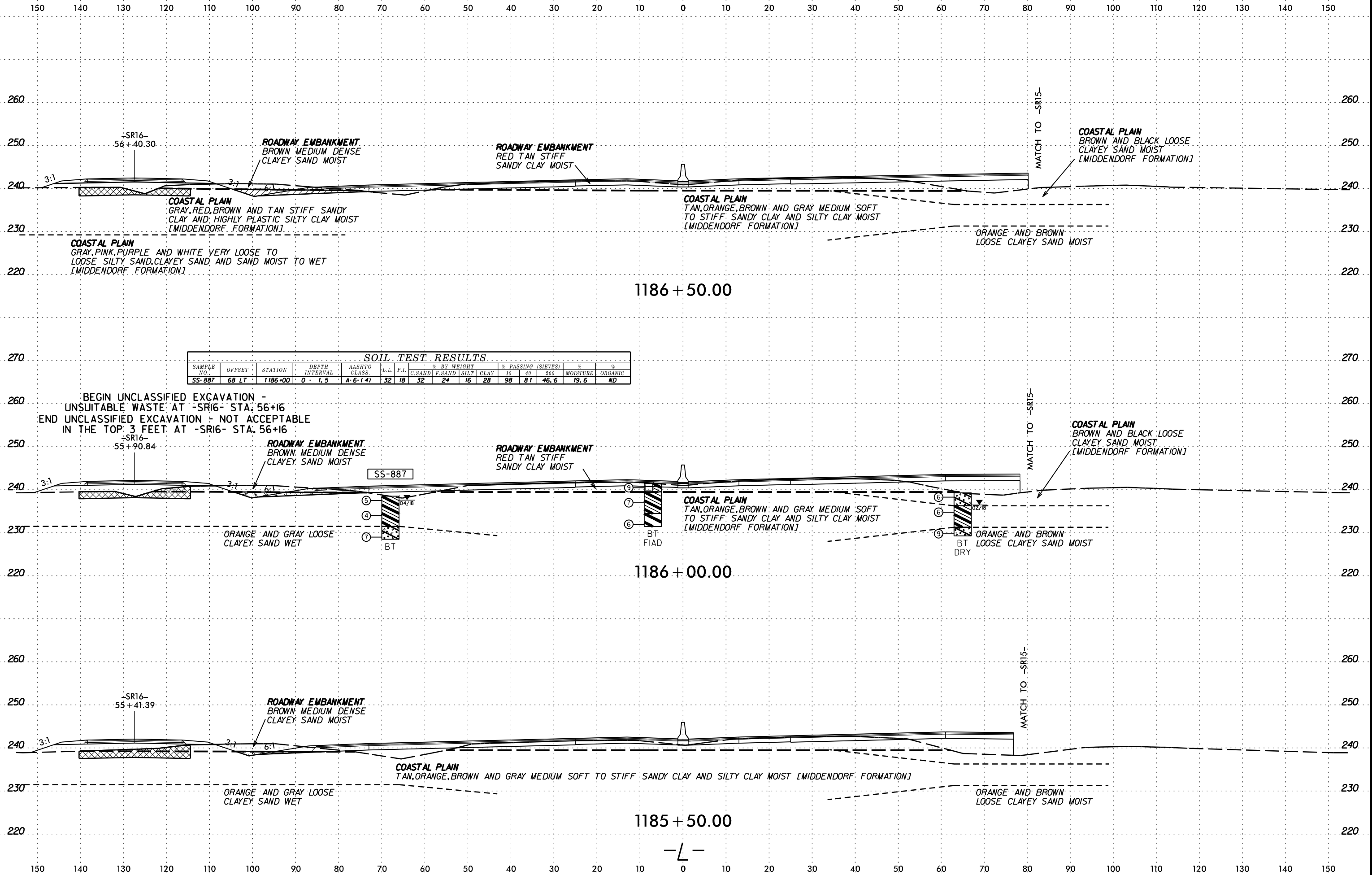
1172+50.00

-L-

SECTION
DATE
BY
CHECKED
APPROVED



SECTION 1184+00.00 TO 1184+11



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	#4	#200			
SS-887	68 LT	1186+00	0 - 1.5	A-6 (1.4)	32	18	32	24	16	28	98	81	46.6	19.6	ND

BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT -SR16- STA. 56+16
 END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT -SR16- STA. 56+16

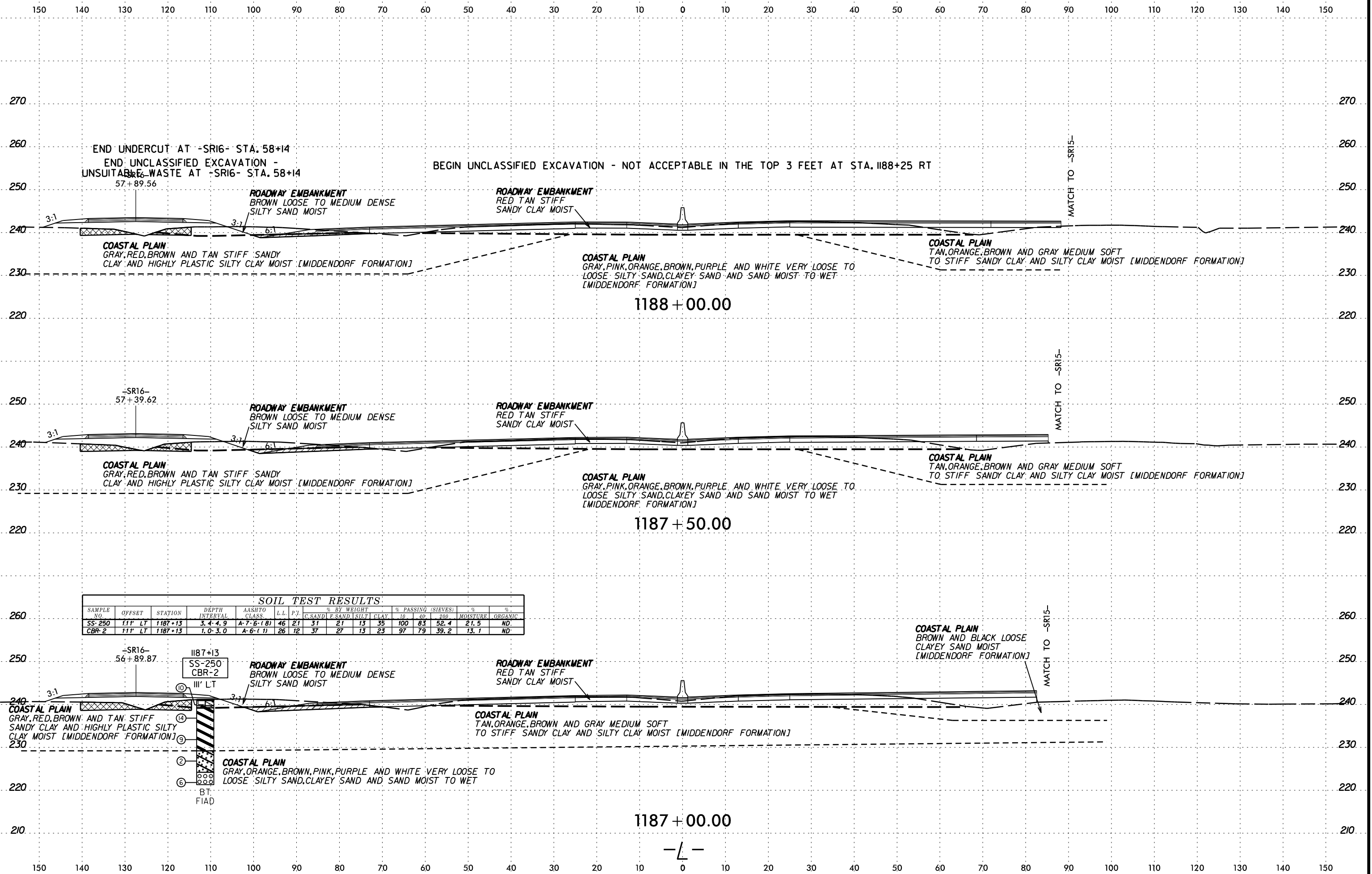
SS-887

1186 + 50.00

1186 + 00.00

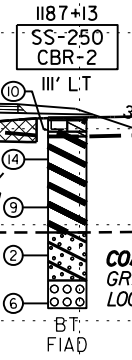
1185 + 50.00

DATE: 6/23/16
 TIME: 10:00 AM
 DRAWN BY: J. B. BARRON
 CHECKED BY: J. B. BARRON
 SCALE: AS SHOWN
 SHEET NO.: 70
 PROJECT: I-5986B



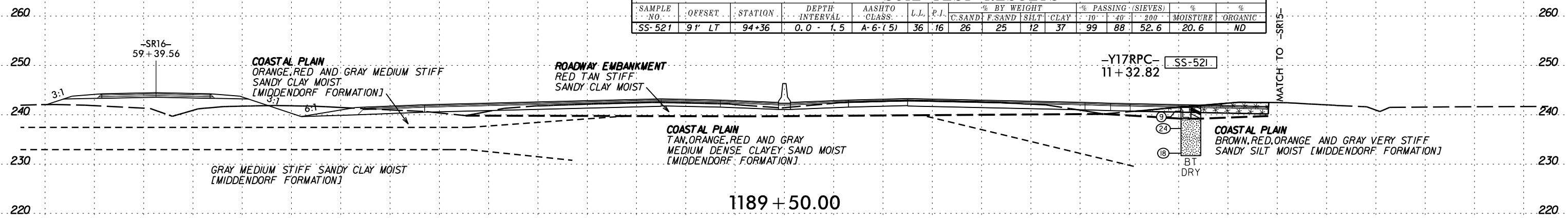
SOIL TEST RESULTS

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			
SS-250	11' LT	1187+13	3.4-4.9	A-7.6 (8)	46	21	31	21	13	35	100	83	52.4	21.5	ND
CBR-2	11' LT	1187+13	1.0-3.0	A-6.1 (1)	26	12	37	27	13	23	97	79	39.2	13.1	ND

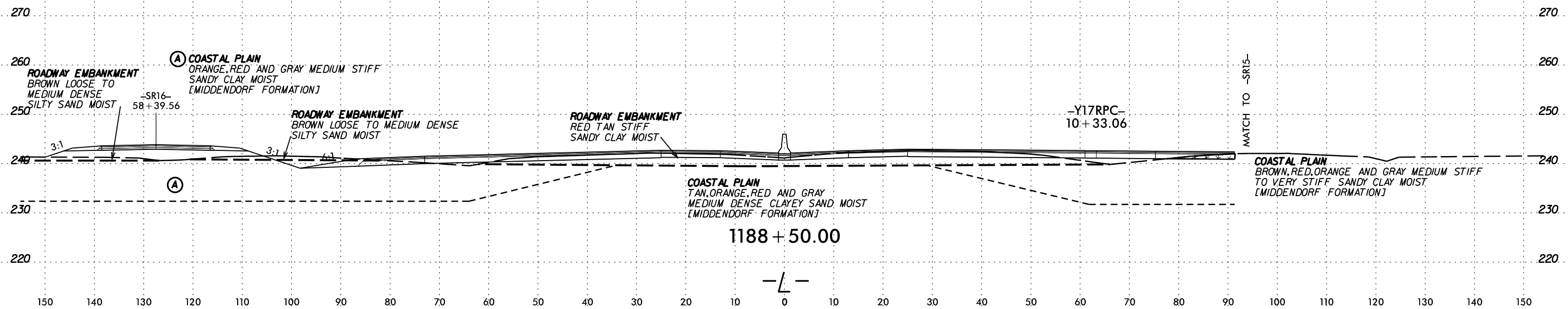
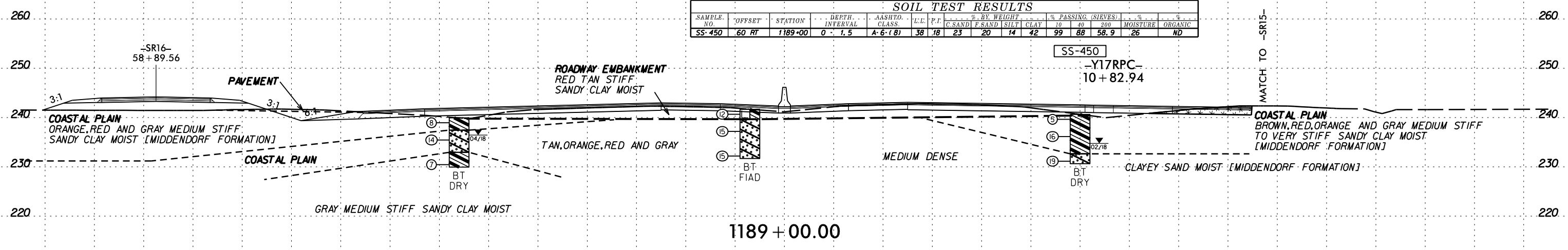


SECTION CUT FROM SURFACE TO CENTERLINE

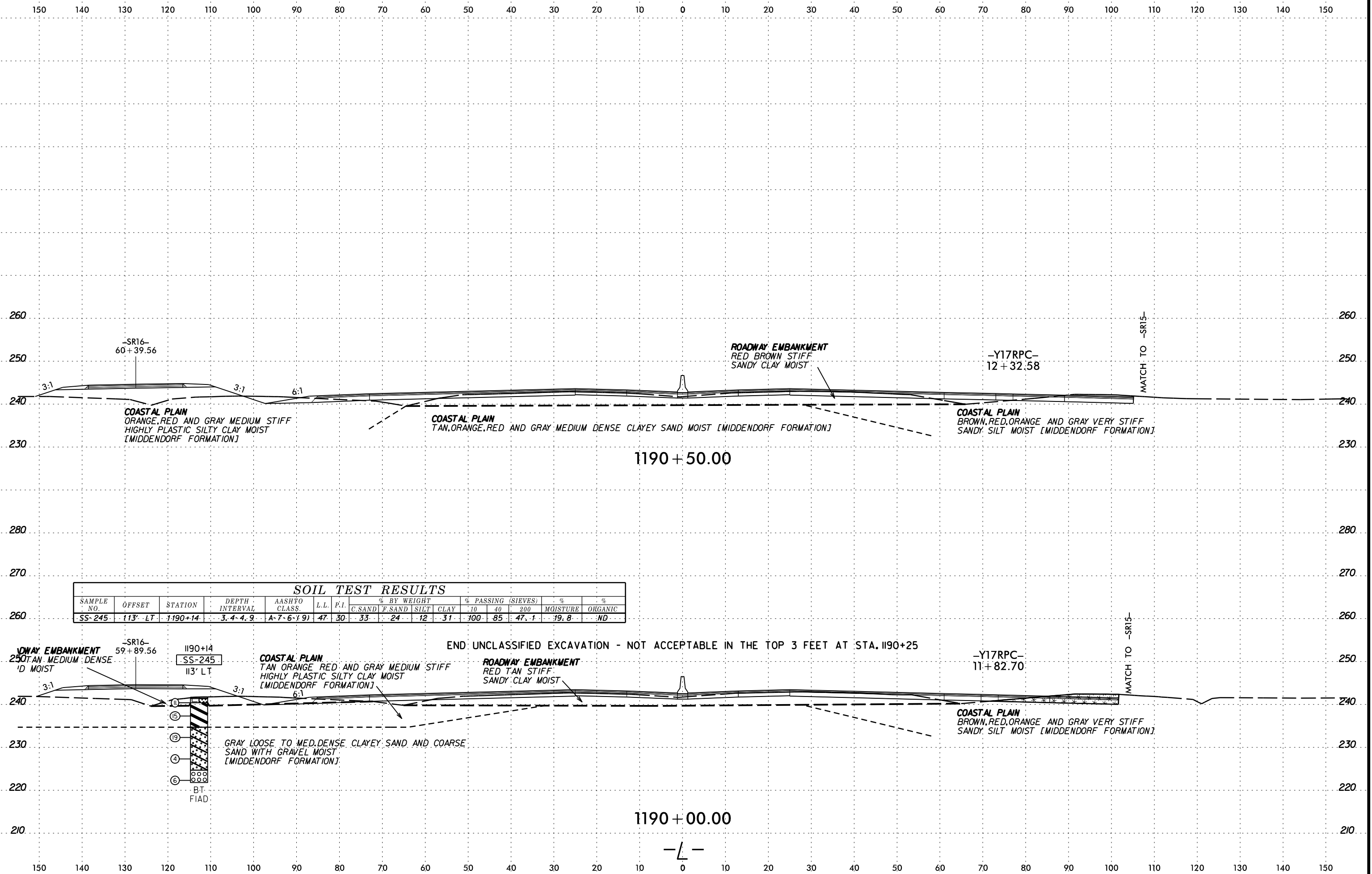
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
SS-521	9' LT	94+36	0.0 - 1.5	A-6-(1.5)	36	16	26	25	12	37	99	88	52.6	20.6	ND



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-450	60 RT	1189+00	0 - 1.5	A-6-(1.8)	38	18	23	20	14	42	99	88	58.9	26	ND



DATE PLOTTED: 06/23/16



-SR16-
60+39.56

COASTAL PLAIN
ORANGE, RED AND GRAY MEDIUM STIFF
HIGHLY PLASTIC SILTY CLAY MOIST
[MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
RED BROWN STIFF
SANDY CLAY MOIST

-Y17RPC-
12+32.58

COASTAL PLAIN
BROWN, RED, ORANGE AND GRAY VERY STIFF
SANDY SILT MOIST [MIDDENDORF FORMATION]

1190+50.00

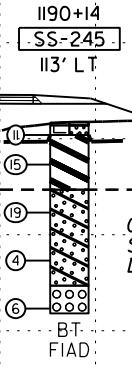
SOIL TEST RESULTS

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-245	113' LT	1190+14	3.4-4.9	A-7-6 (9)	47	30	33	24	12	31	100	85	47.1	19.8	ND

END: UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 1190+25

ROADWAY EMBANKMENT
TAN MEDIUM DENSE
ID MOIST

-SR16-
59+89.56



COASTAL PLAIN
TAN ORANGE RED AND GRAY MEDIUM STIFF
HIGHLY PLASTIC SILTY CLAY MOIST
[MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
RED TAN STIFF
SANDY CLAY MOIST

-Y17RPC-
11+82.70

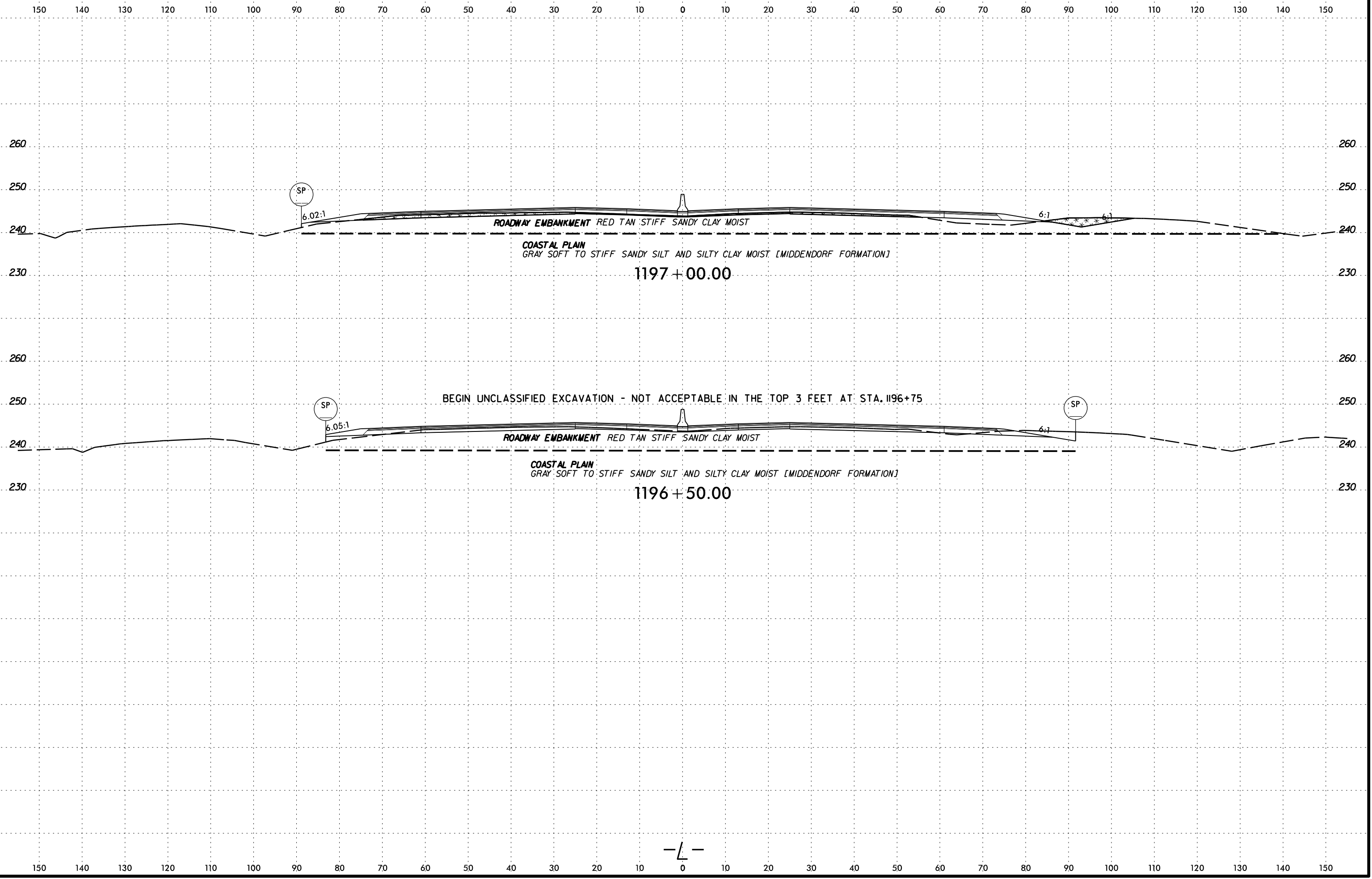
COASTAL PLAIN
BROWN, RED, ORANGE AND GRAY VERY STIFF
SANDY SILT MOIST [MIDDENDORF FORMATION]

GRAY LOOSE TO MED. DENSE CLAYEY SAND AND COARSE
SAND WITH GRAVEL MOIST
[MIDDENDORF FORMATION]

1190+00.00

-L-

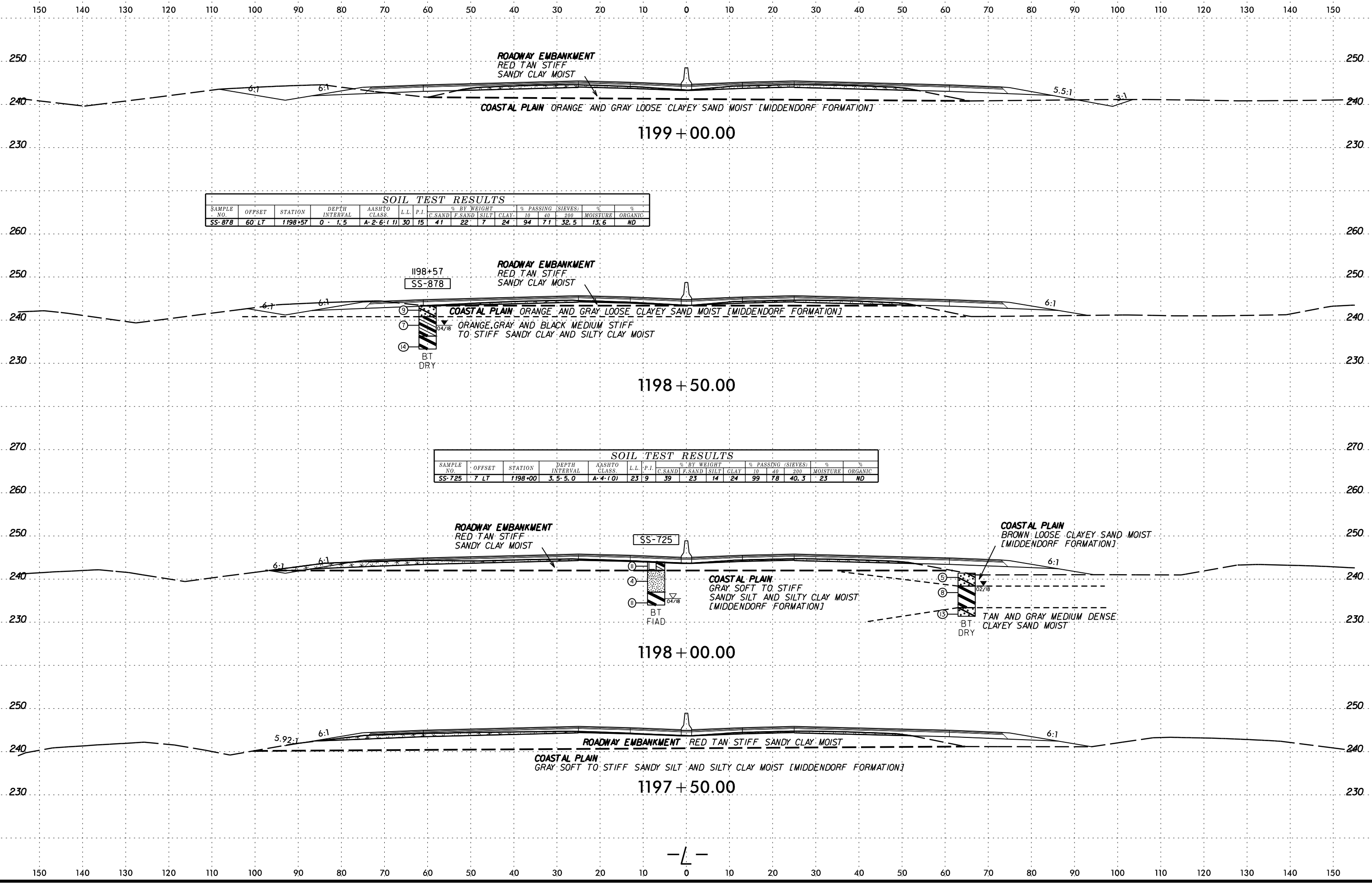
6/23/16



SYNTHETIC
GRAVEL
BASE

-L-

6/23/16



SOIL TEST RESULTS

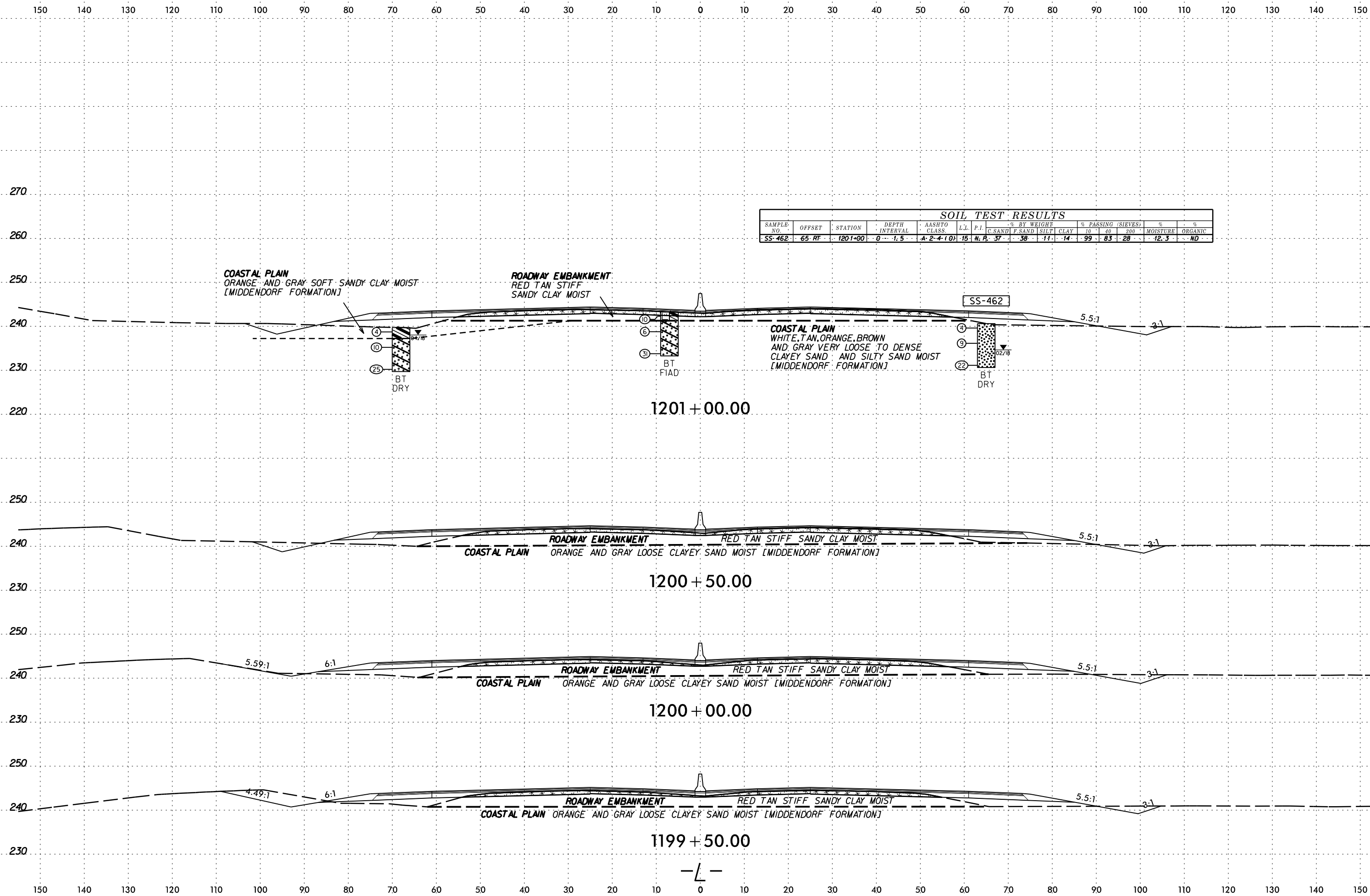
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	CLAY	10	40	200		
SS-878	60' LT	1198+57	0 - 1.5	A-2-6(1)1	30	15	41	22	7	24	94	71	32.5	13.6	ND

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-725	7' LT	1198+00	3.5-5.0	A-4(1)0	23	9	39	23	14	24	99	78	40.3	23	ND

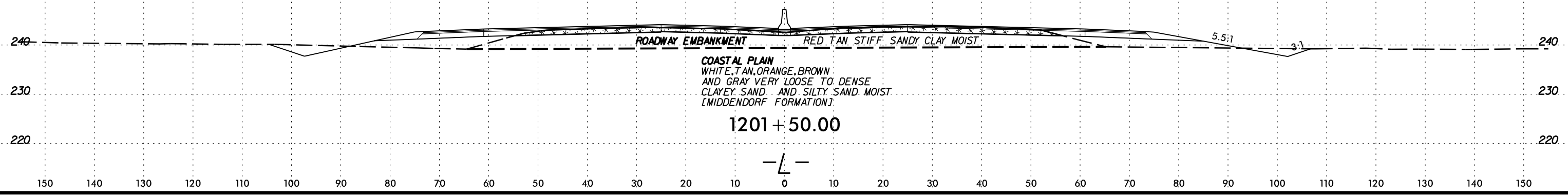
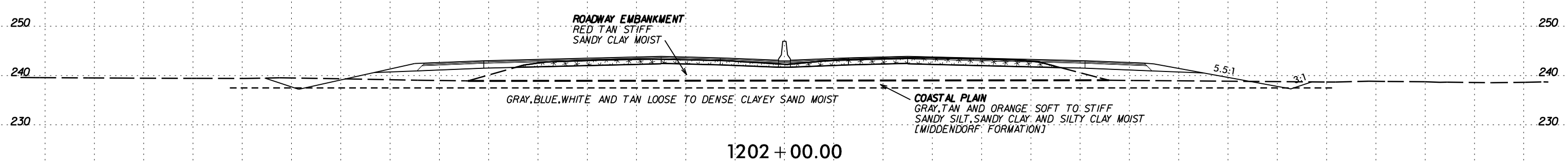
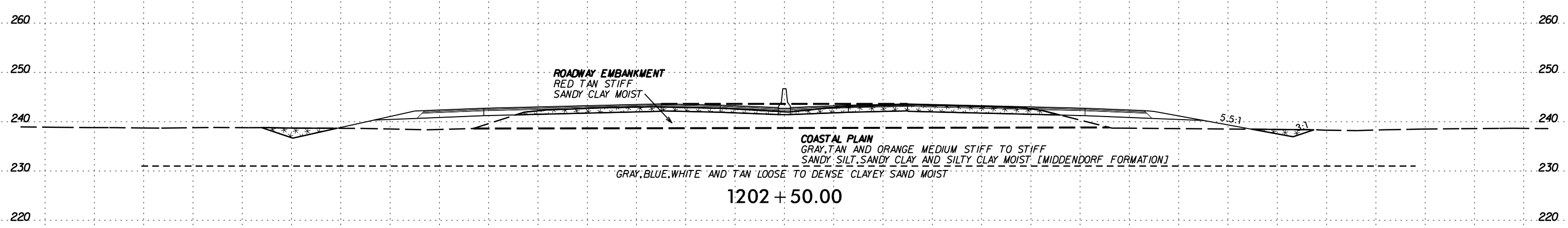
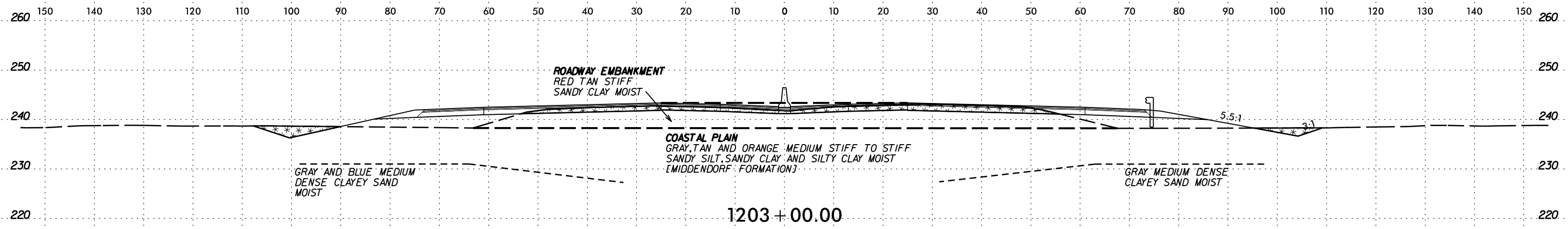
-L-

6/23/16

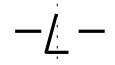


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
SS-462	65' RT	1201+00	0 - 1.5	A-2-4(10)	15	N.P.	37	38	11	14	99	83	28	12.3	ND

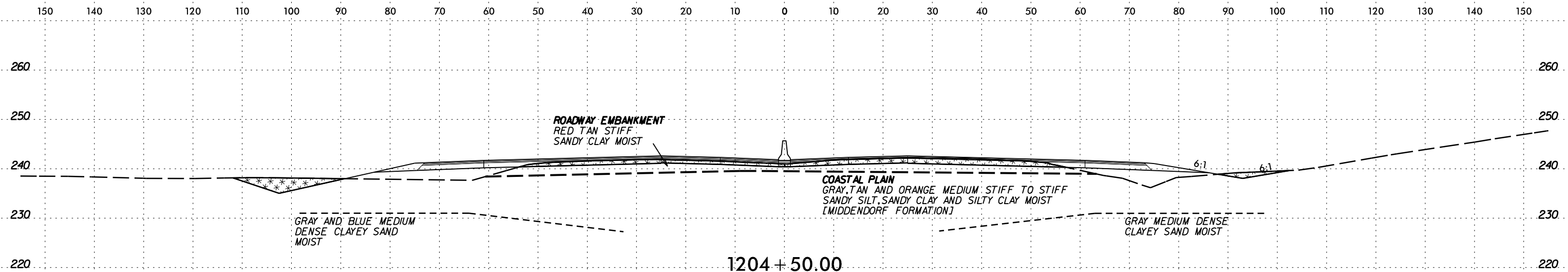
SCHEMATIC CONSTRUCTION PERMANENT



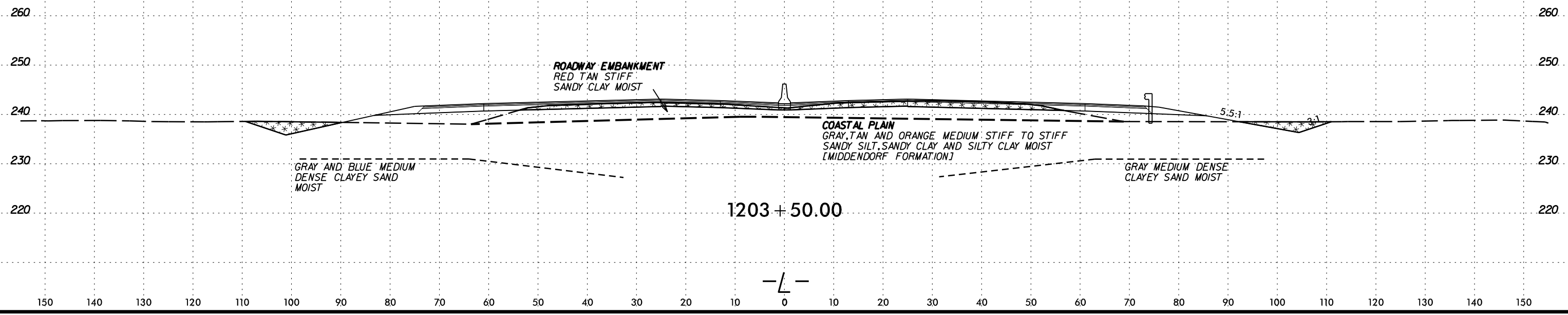
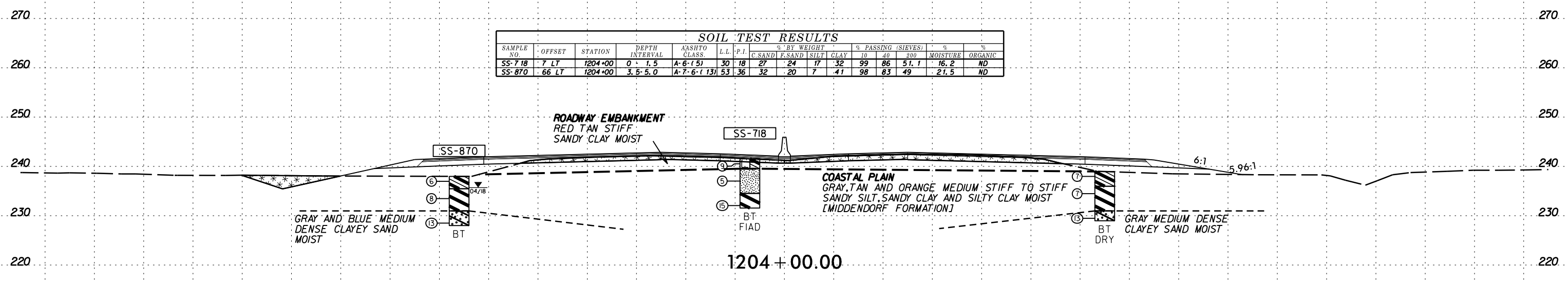
SECTION ON CENTERLINE



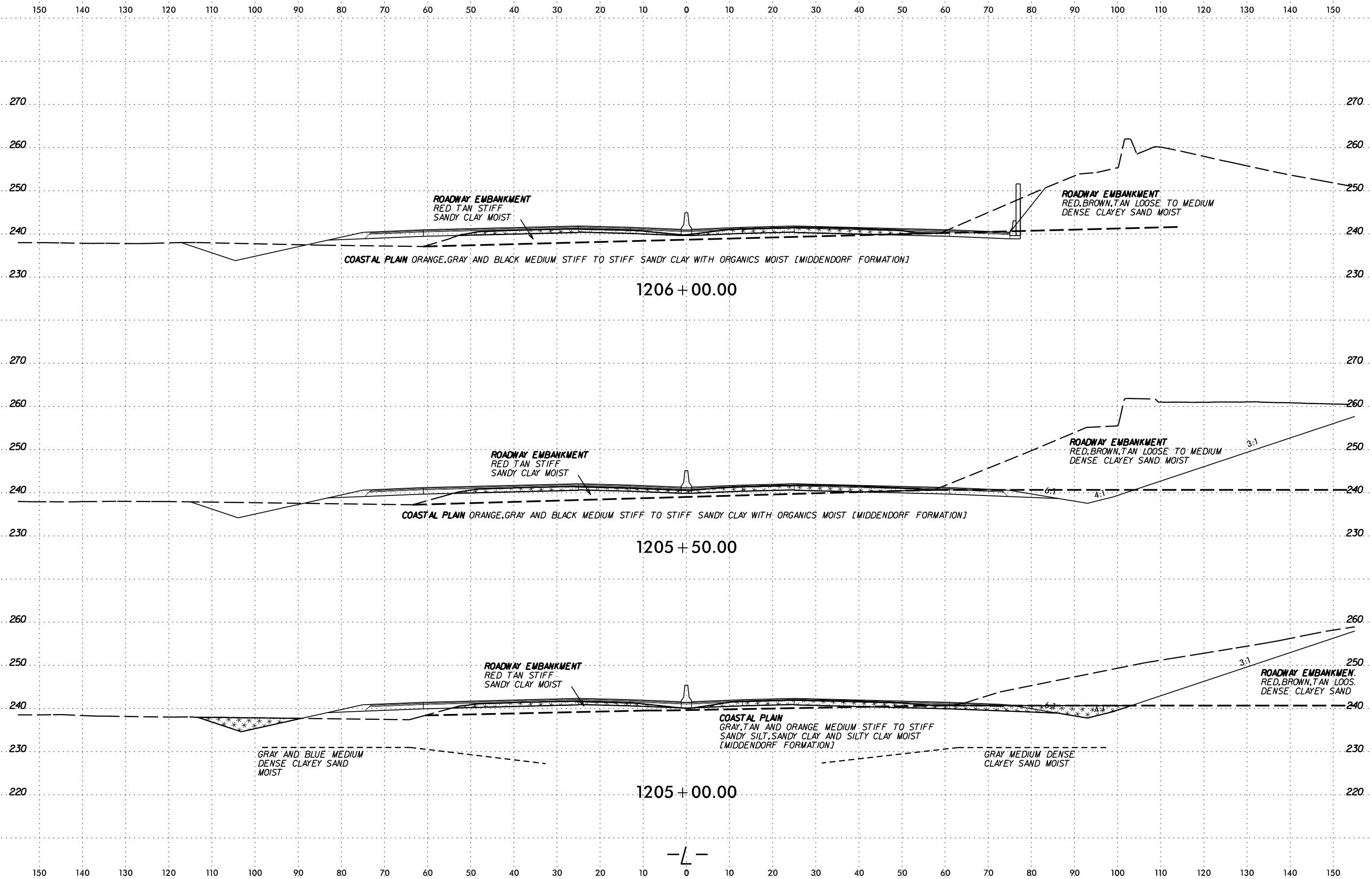
6/23/16



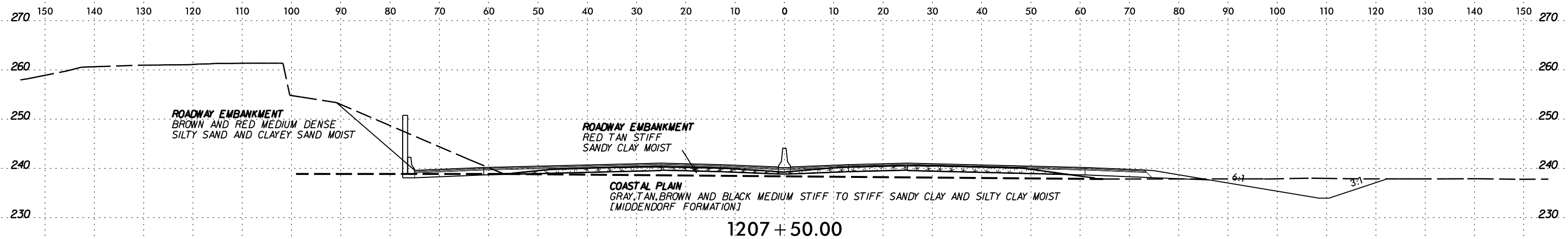
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	200			
SS-718	7 LT	1204+00	0 - 1.5	A-6-(1.5)	30	18	27	24	17	32	99	86	51.1	16.2	ND
SS-870	66 LT	1204+00	3.5 - 5.0	A-7-6-(1.13)	53	36	32	20	7	41	98	83	49	21.5	ND



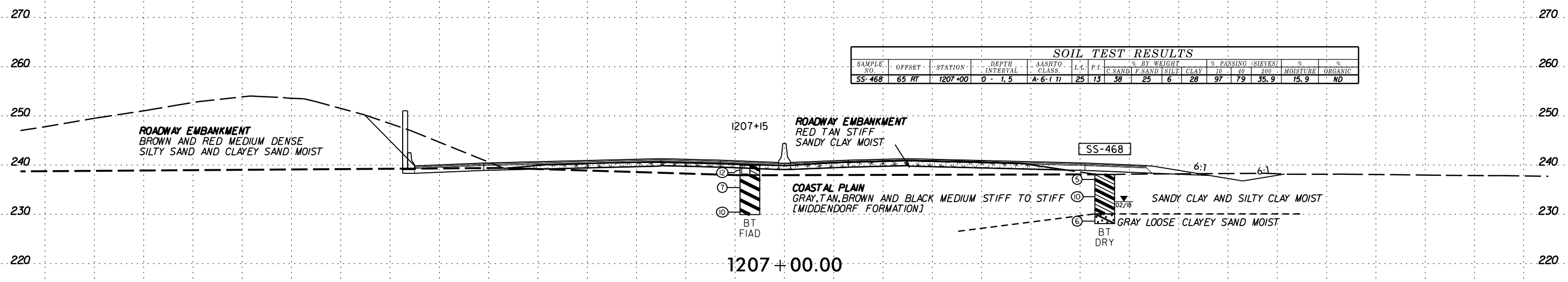
SYTIME
CON
ARRIVE



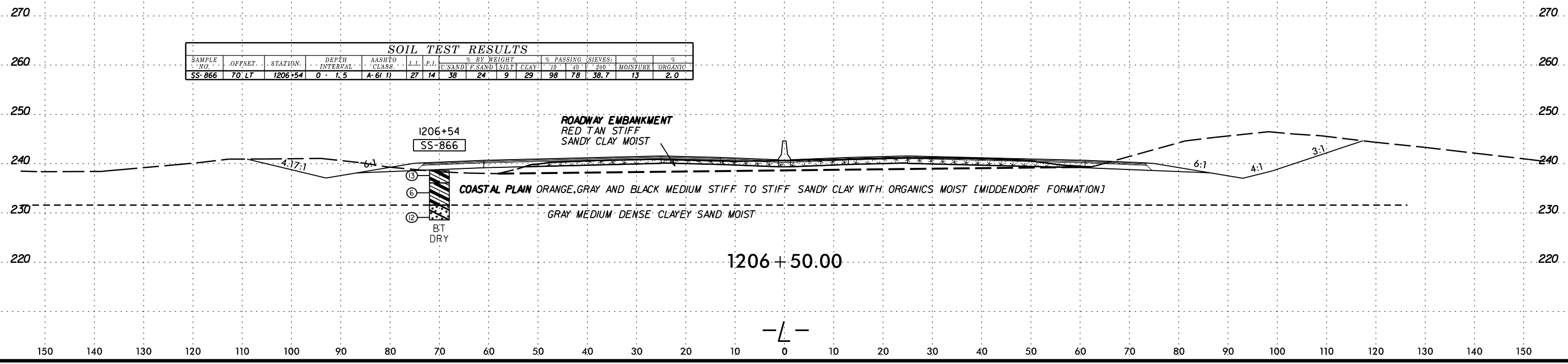
SYTIME
CON
ARRIVE



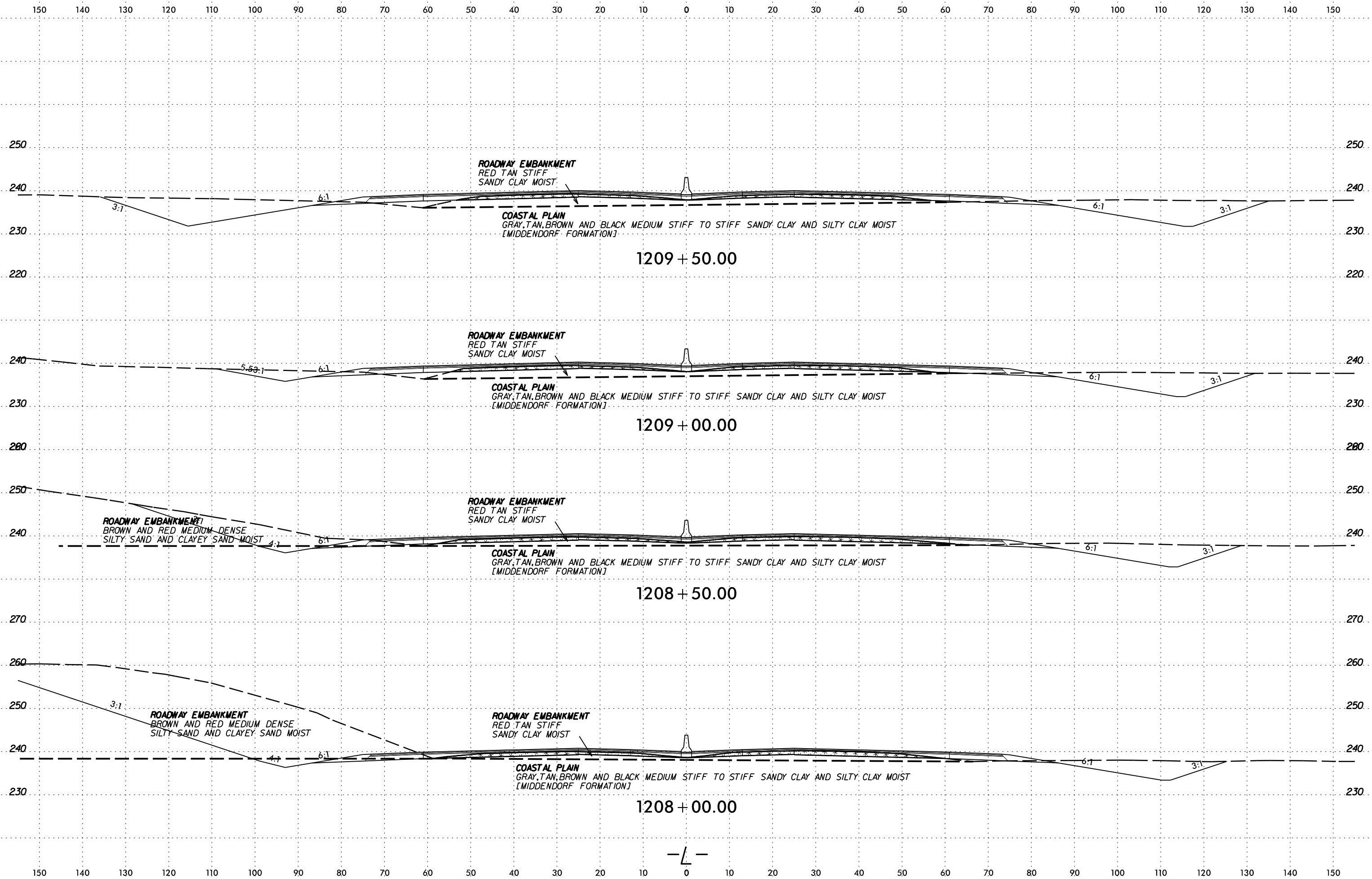
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	200			
SS-468	65 RT	1207+00	0 - 1.5	A-6-1 (1)	25	13	38	25	6	28	97	79	35.9	15.9	ND



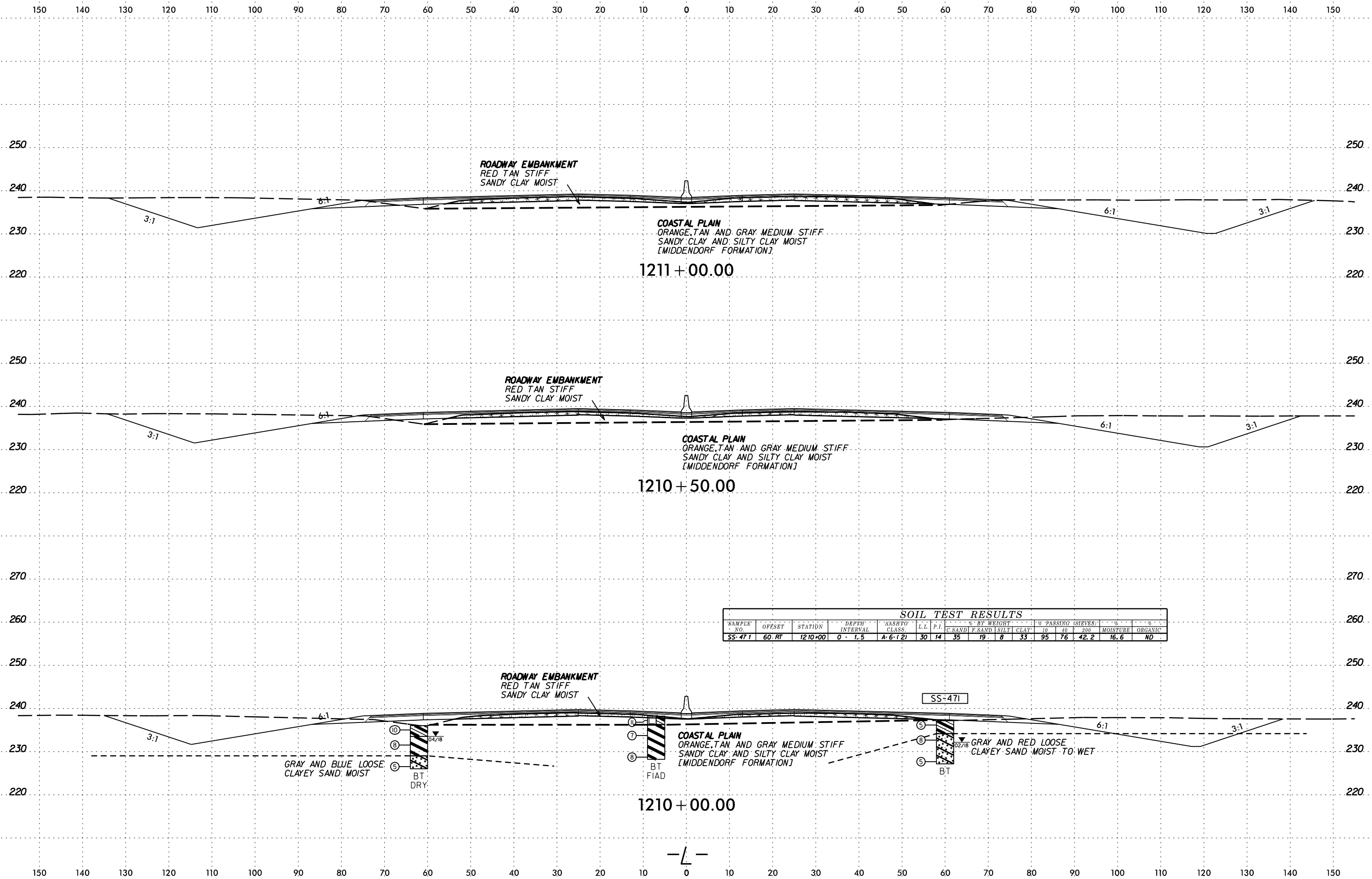
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	200			
SS-866	70 LT	1206+54	0 - 1.5	A-6-1 (1)	27	14	38	24	9	29	98	78	38.7	13	2.0



6/23/16



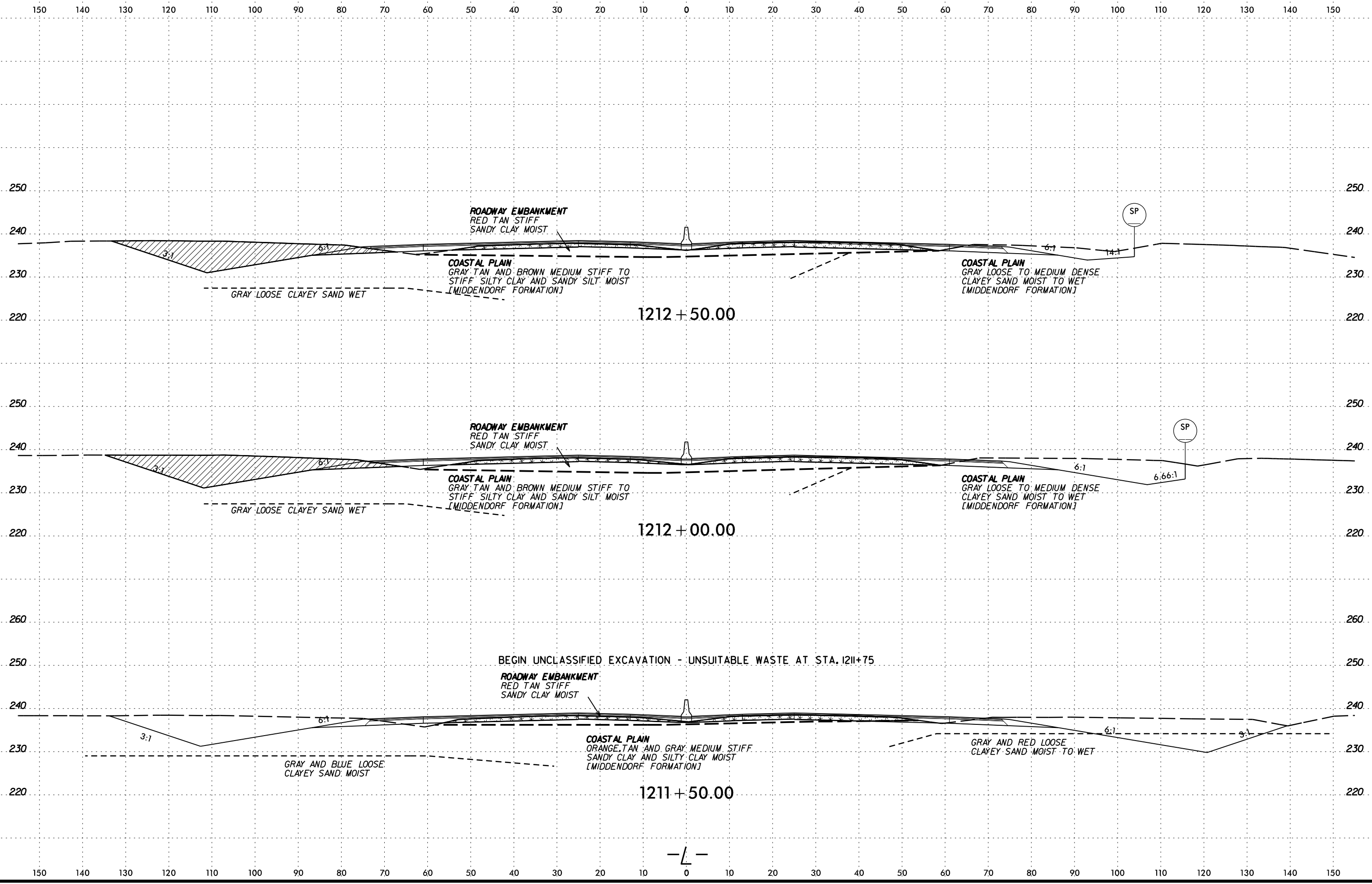
SYTIME
CON
LE
JUL
ARRIVE



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C SAND	F SAND	SILT	CLAY	10	40	200		
SS-471	60 FT	1210+00	0 - 1.5	A-6 (2)	30	14	35	19	8	33	95	76	42.2	16.6	ND

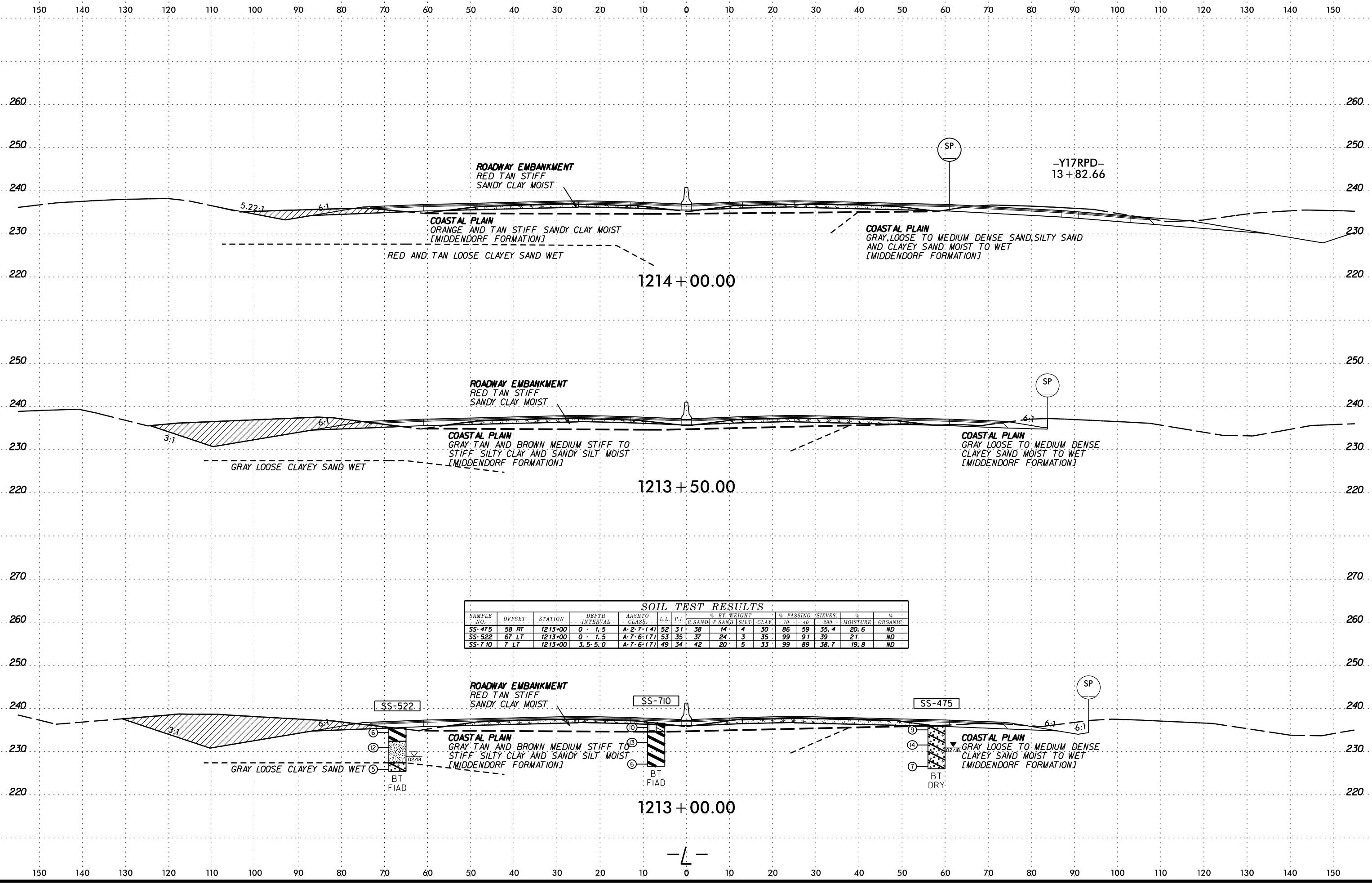
SCHEMATIC SECTION

6/23/16



SCHEMATIC SECTION

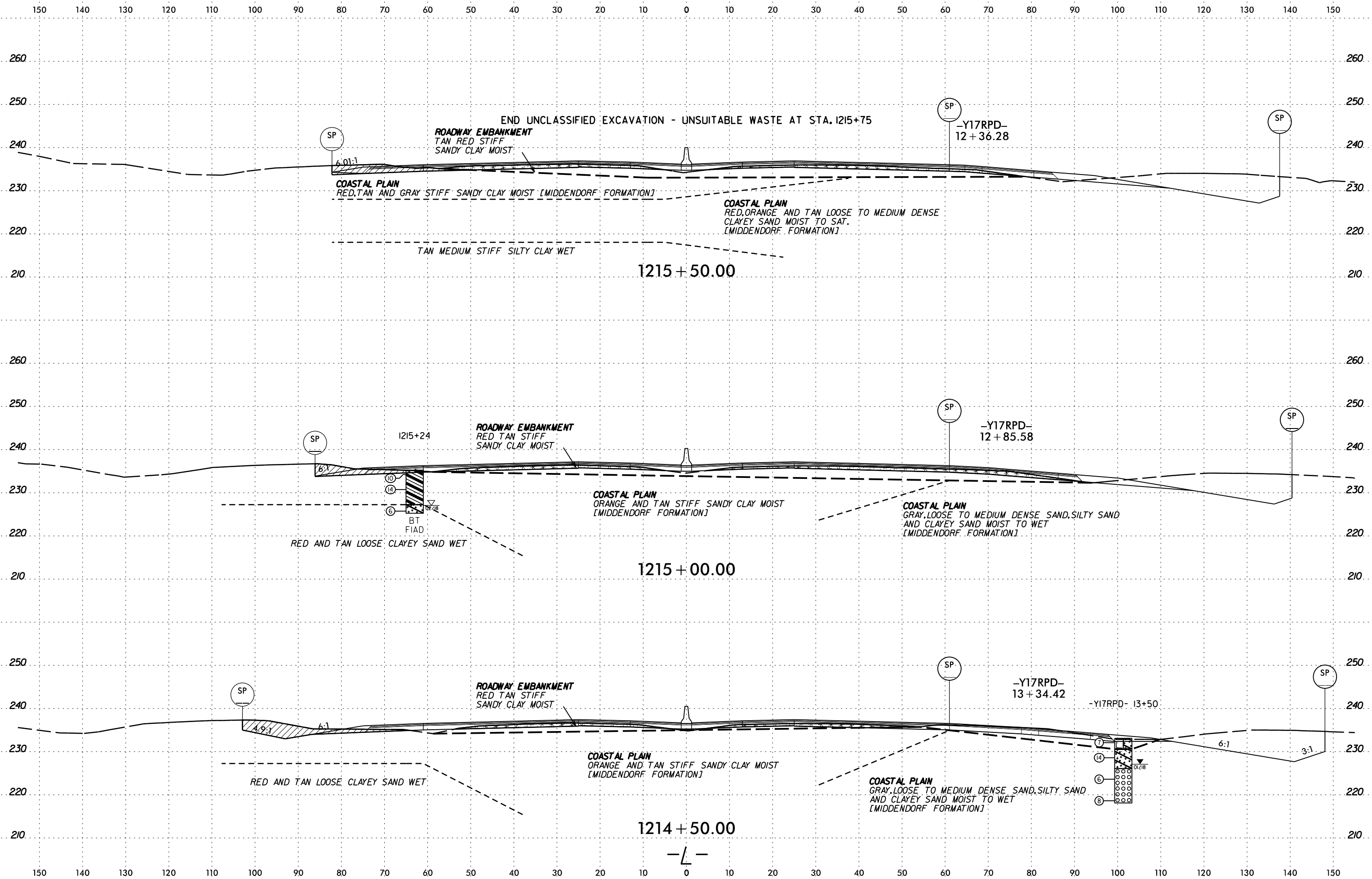
-L-



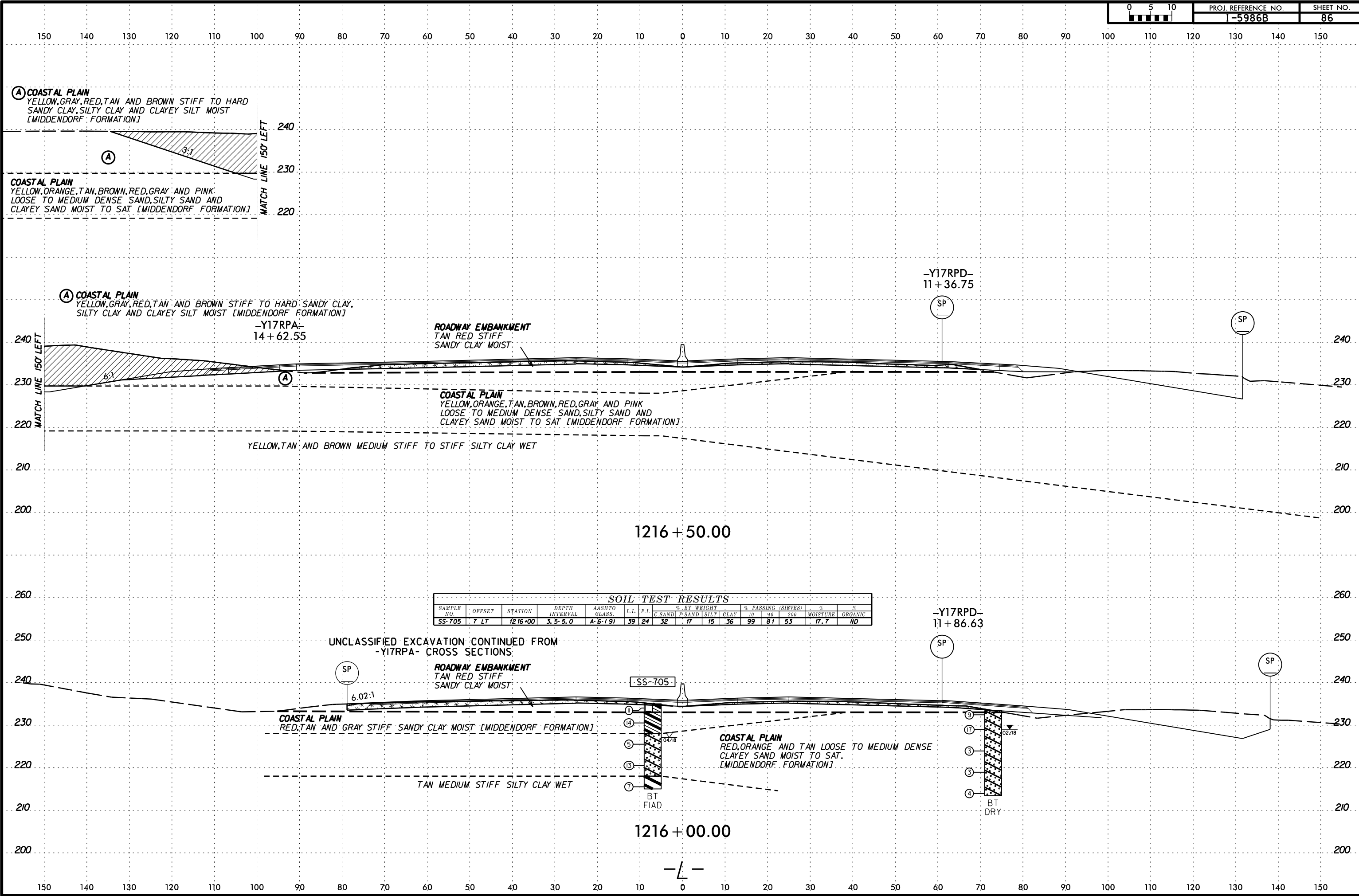
SOIL TEST RESULTS

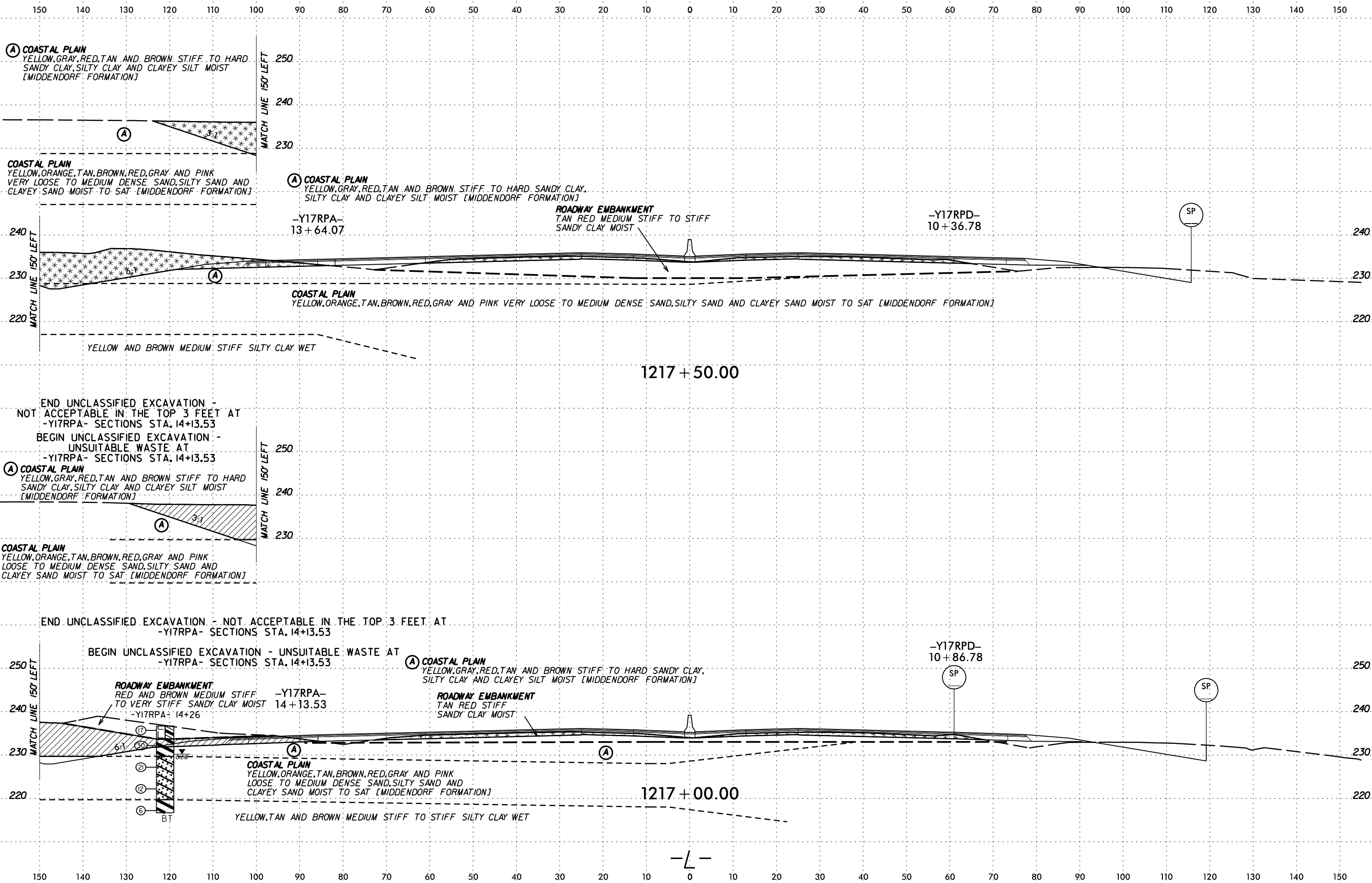
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	% ORGANIC	
							G. SAND	F. SAND	SILT	CLAY	10	40			200
SS-475	58' RT	1213+00	0 - 1.5	A-2-7(1.4)	52	31	38	14	4	30	86	59	35.4	20.6	ND
SS-522	67' LT	1213+00	0 - 1.5	A-7-6(1.7)	53	35	37	24	3	35	99	91	39	21	ND
SS-710	7' LT	1213+00	3.5 - 5.0	A-7-6(1.7)	49	34	42	20	5	33	99	89	38.7	19.8	ND

SCHEMATIC CROSS SECTION
 PREPARED BY
 DATE



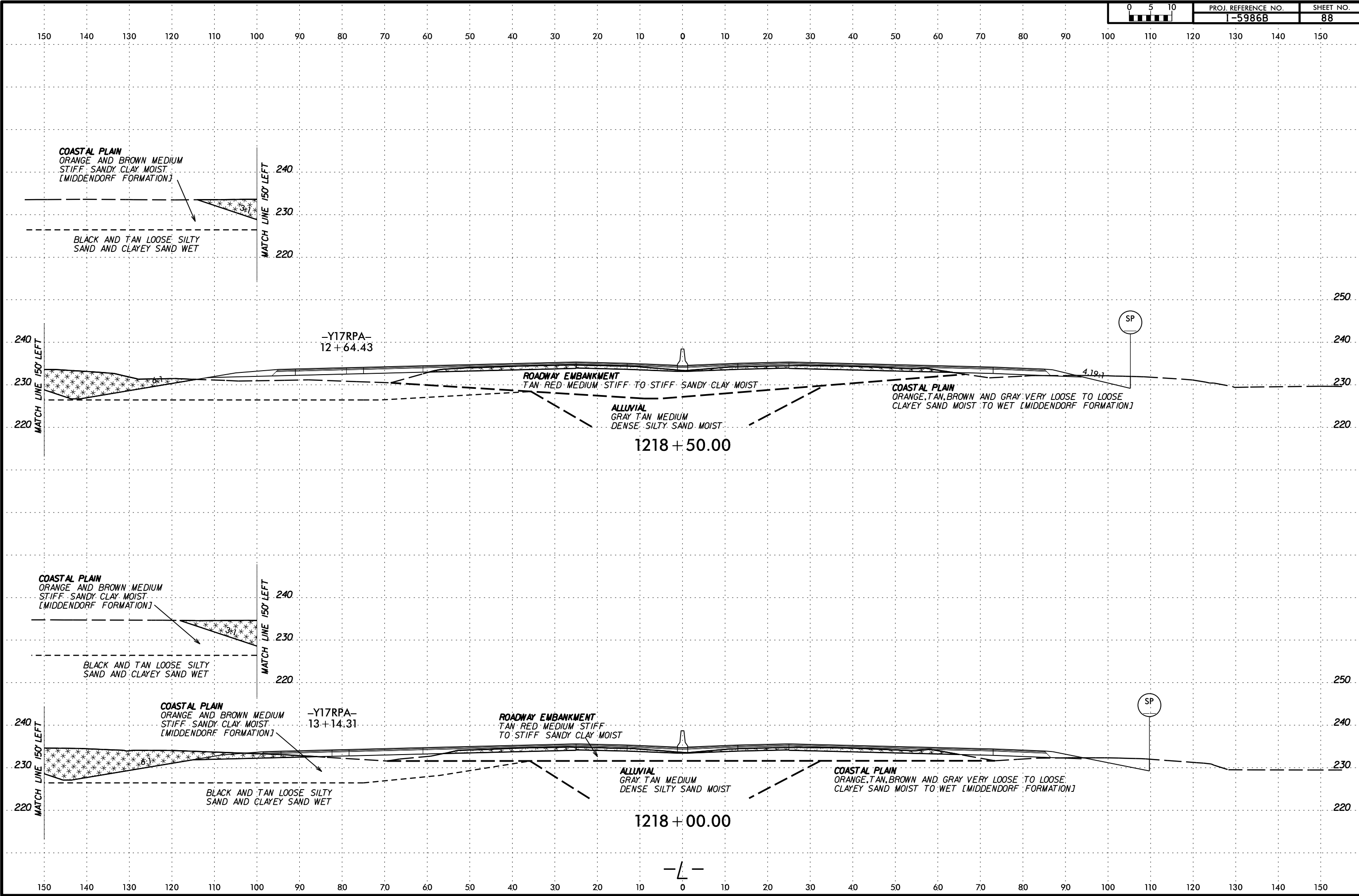
SYTIME
CON
ARRANGE



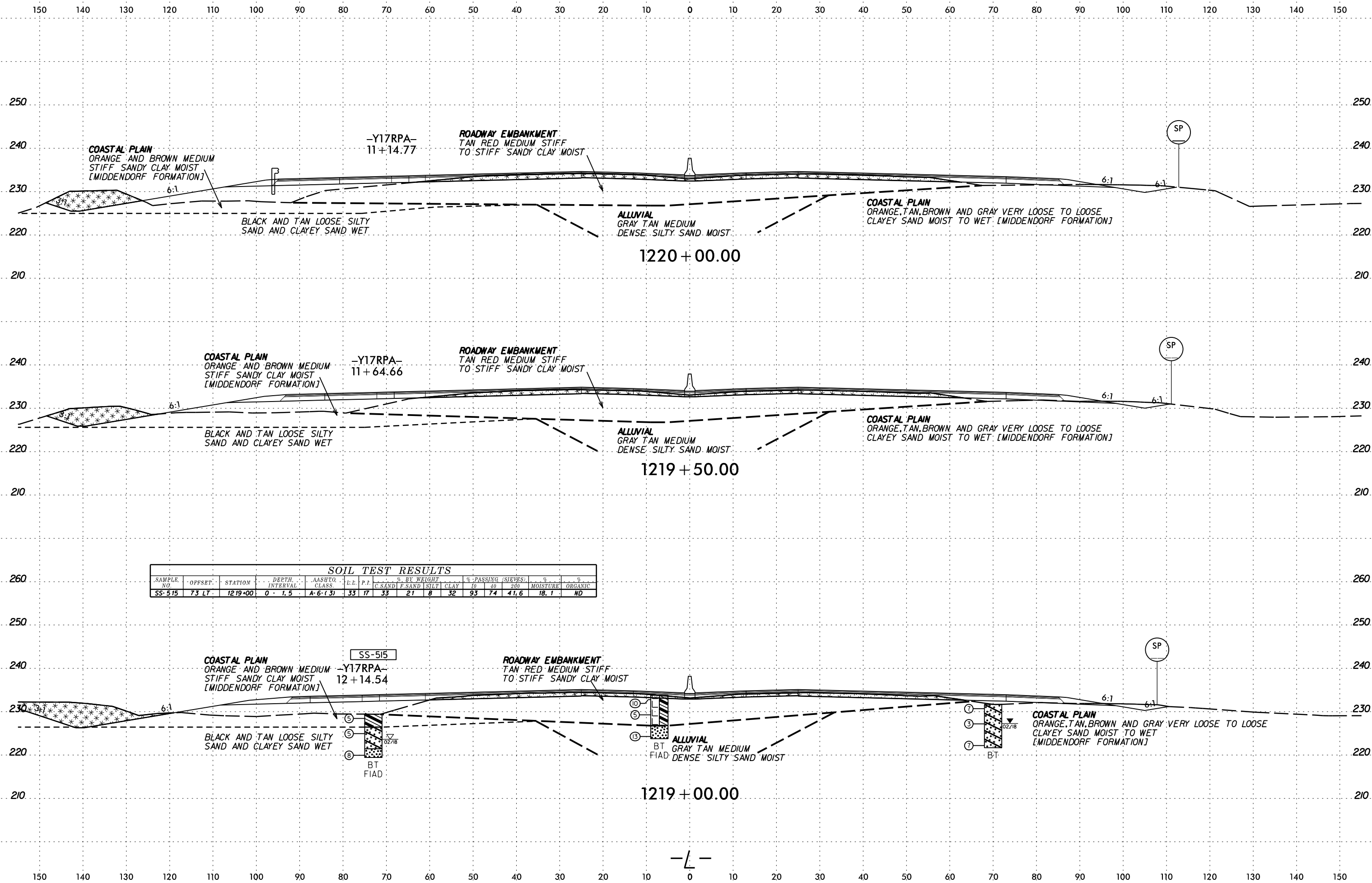


6/23/16
SCHEMATIC
CONSTRUCTION
SECTION

-L-

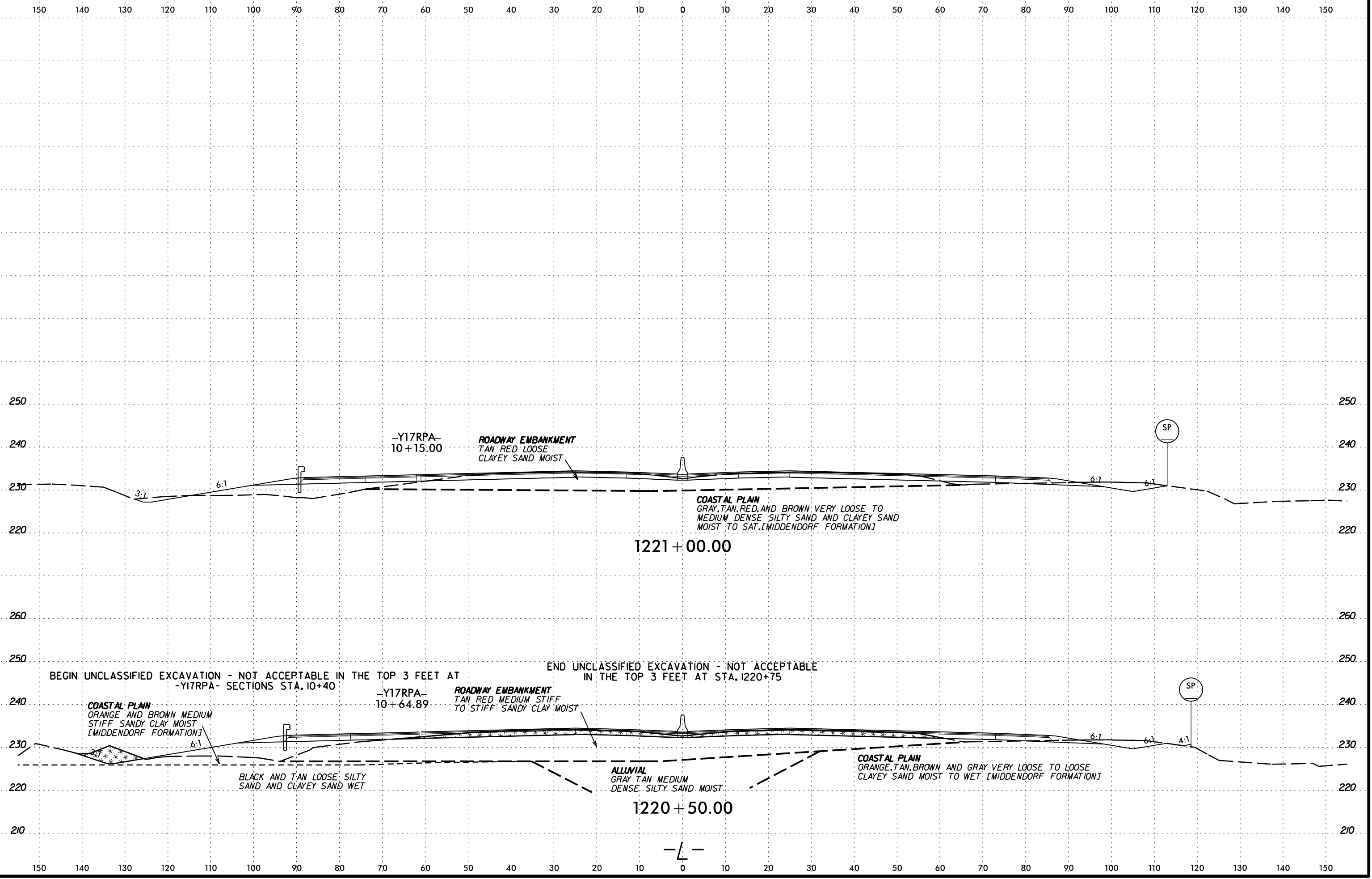


SYSTEMS DESIGN & CONSTRUCTION
10000 W. BUCKLE BURNING



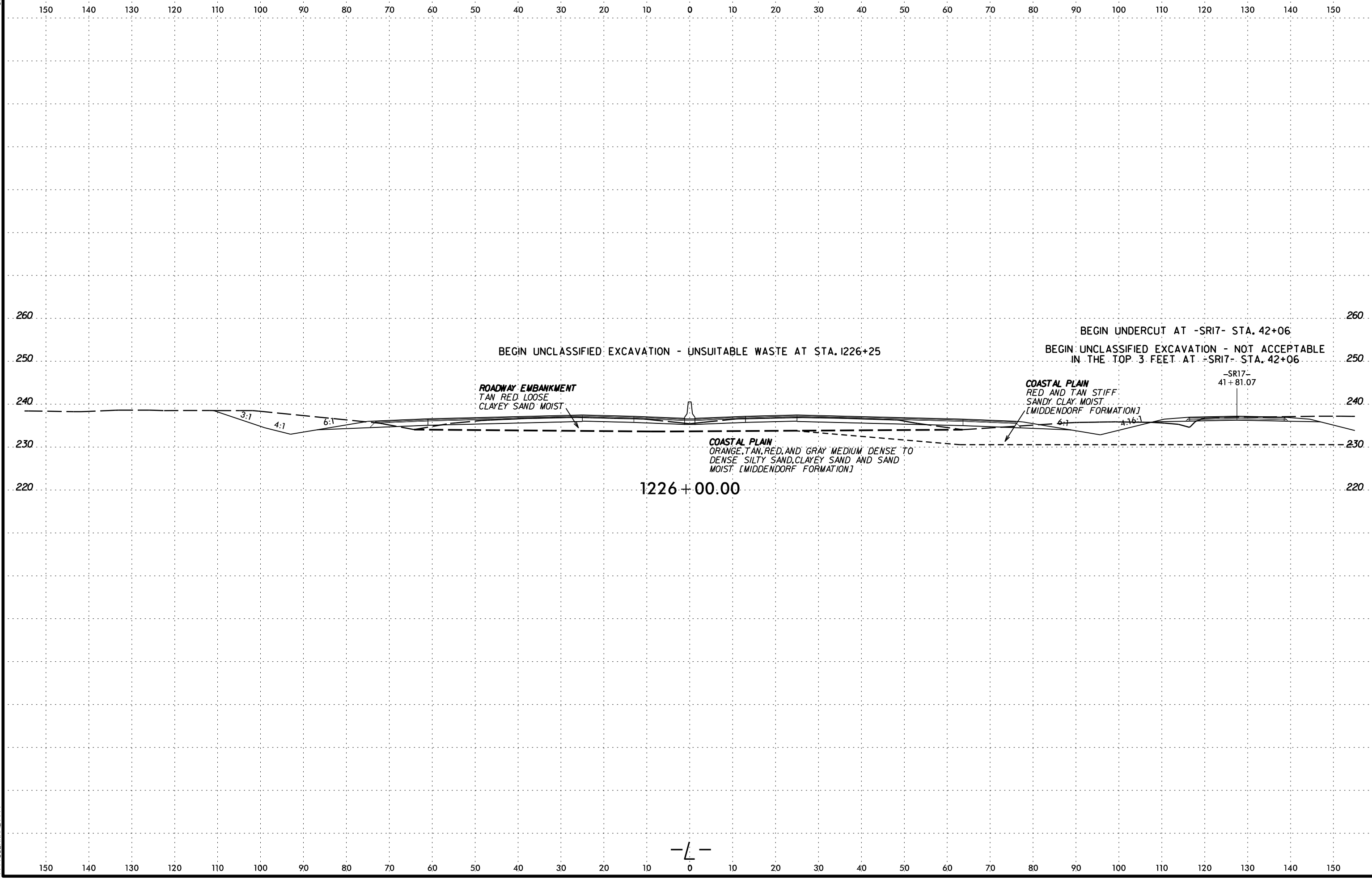
SCHEMATIC CROSS SECTION OF ROADWAY EMBANKMENT

6/23/16



VERTICAL SCALE 1/4" = 10'

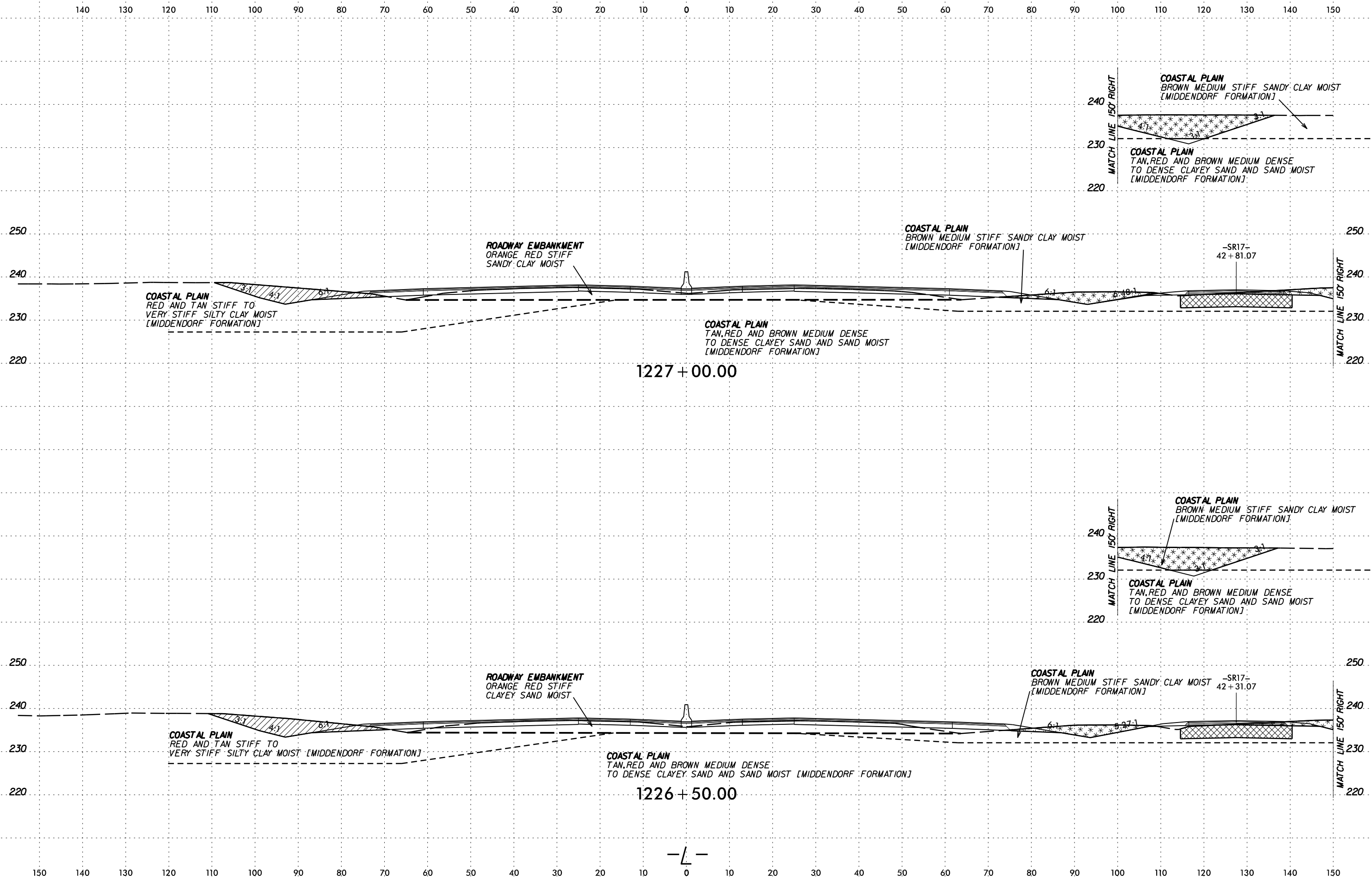
6/23/16



DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: [illegible]

-L-

6/23/16



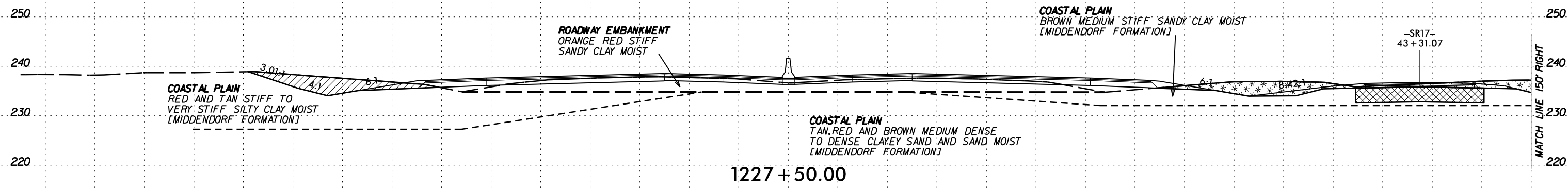
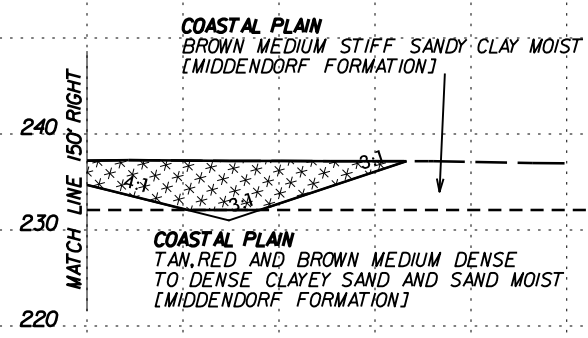
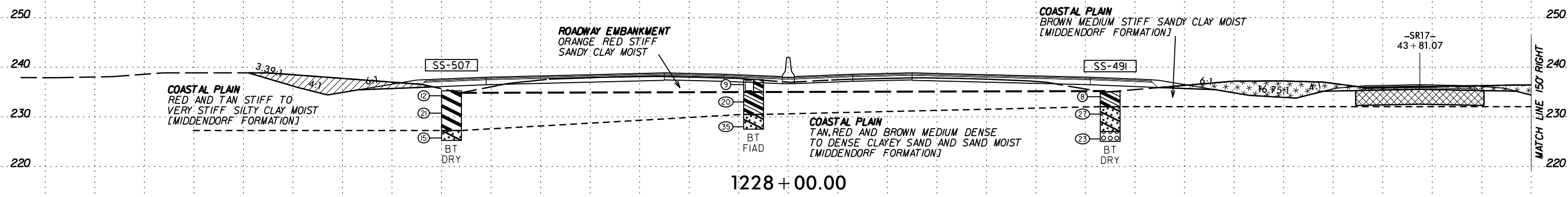
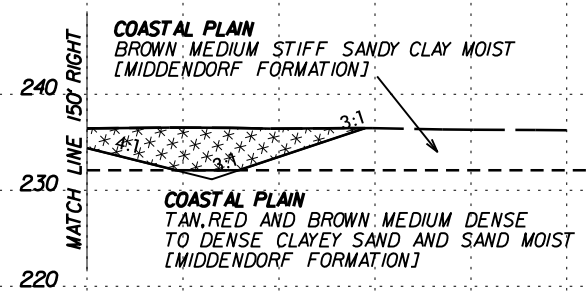
SECTION
CON
ARRANGEMENT

-L-

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

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-491	65 RT	1228+00	0 - 1.5	A-6 (3)	36	16	34	20	6	36	96	77	44.2	16.4	ND
SS-507	68 LT	1228+00	0 - 1.5	A-7-6 (1)	48	24	18	28	8	45	99	92	55.3	25	ND

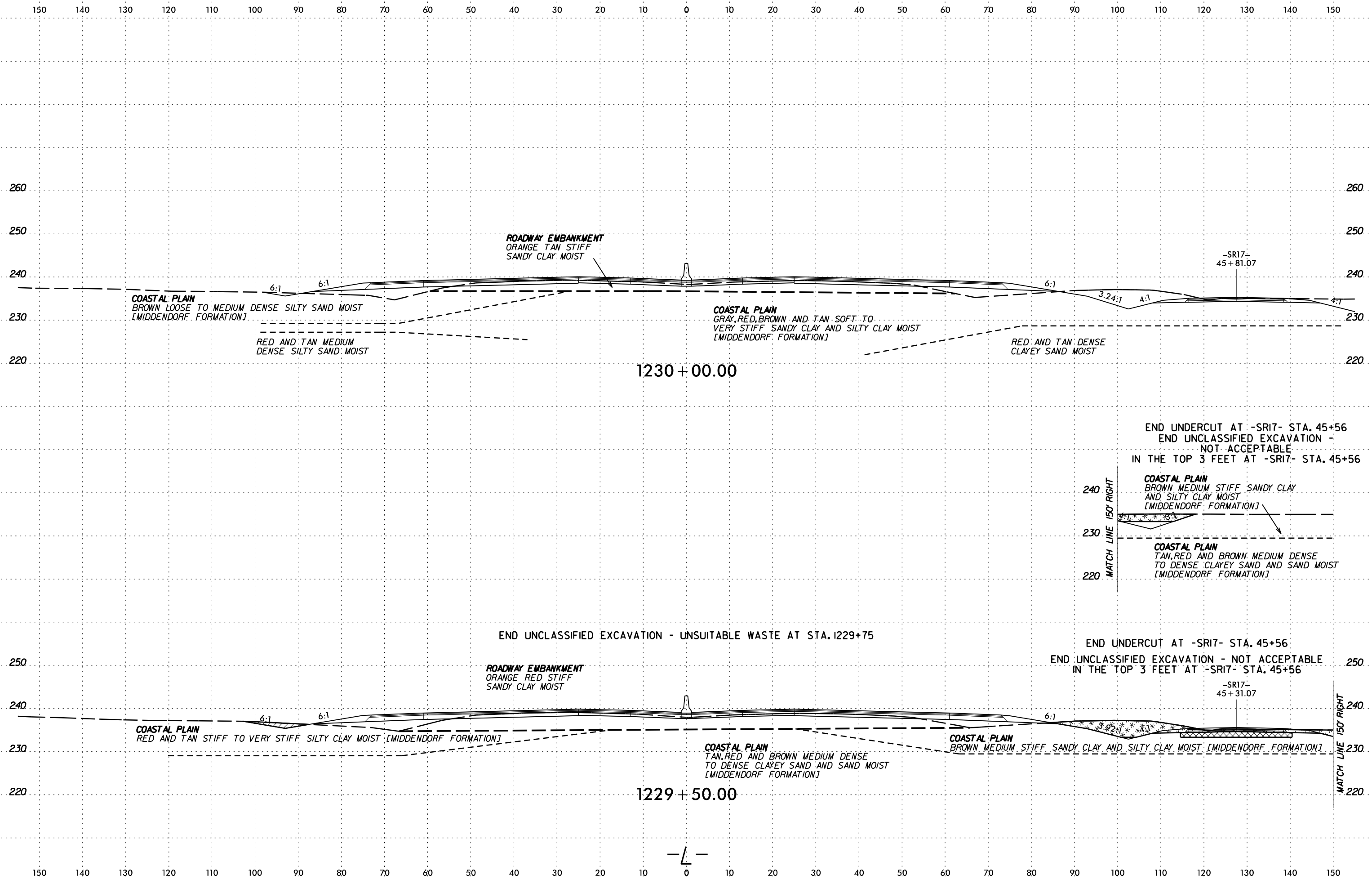


SYTIME CONSTRUCTION SERVICES

-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

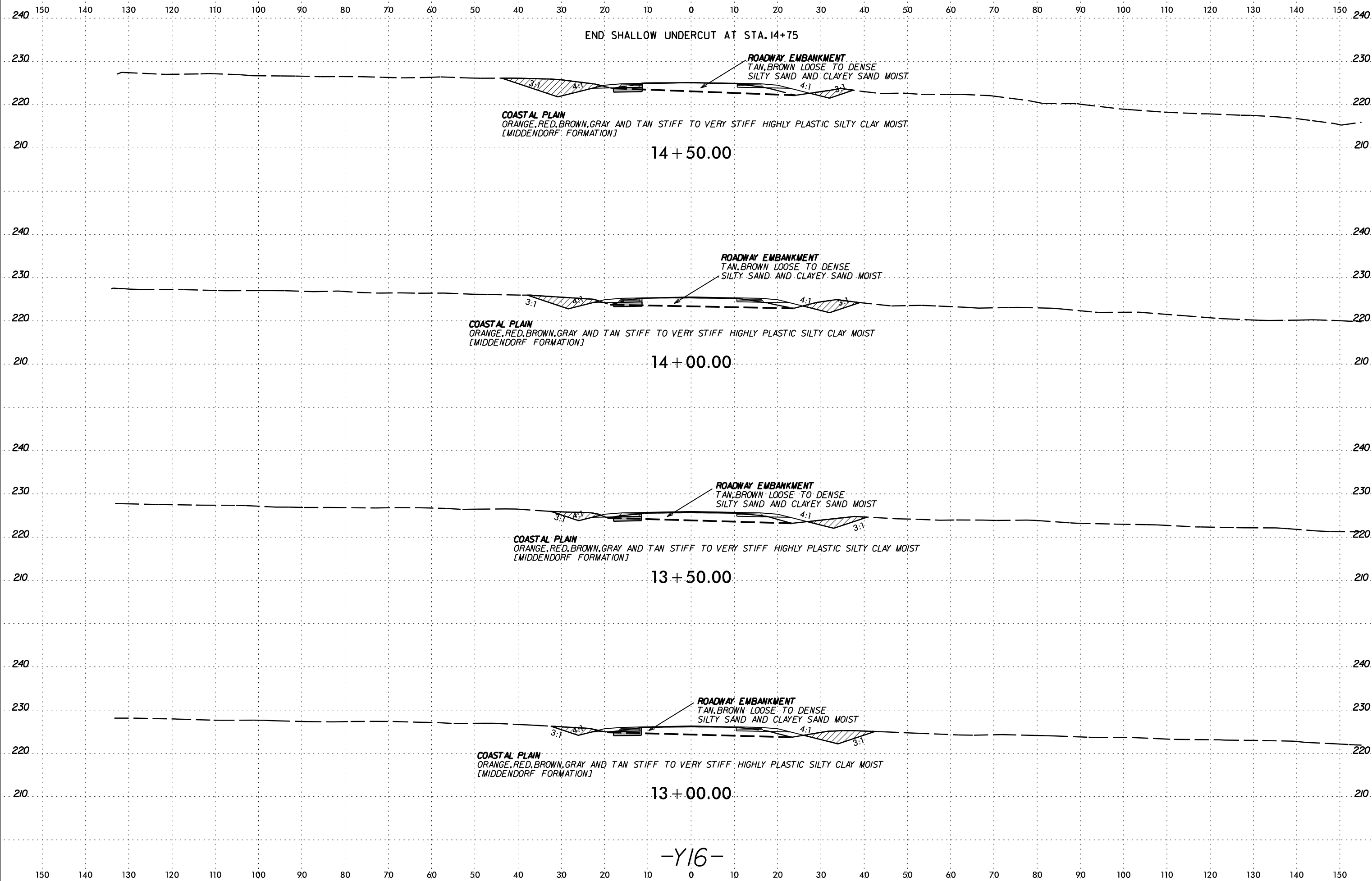
6/23/16



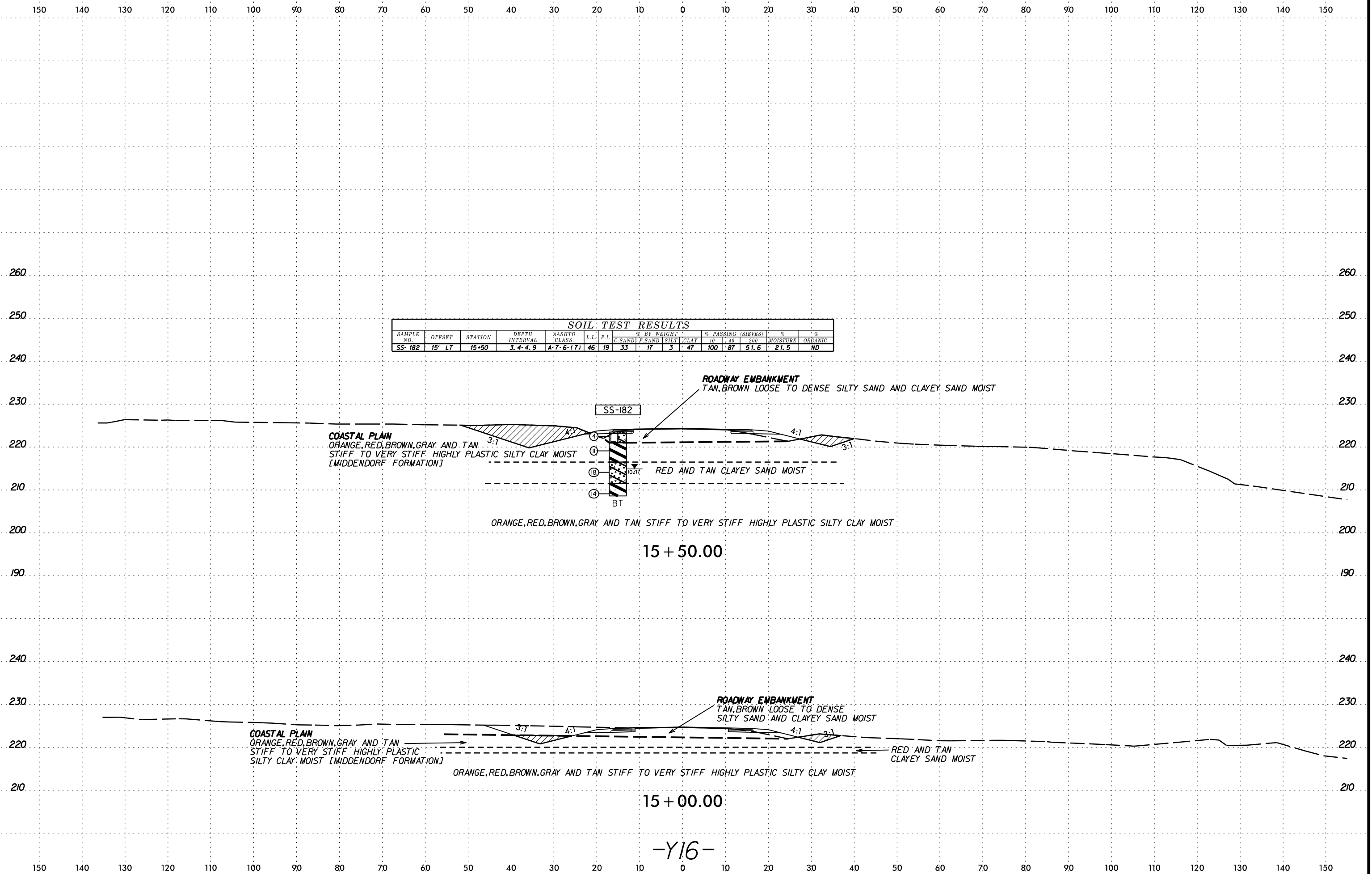
SECTION 1229+50 TO 1230+00

-L-

6/23/16



SYTIME
CON
ARRANG
JULY

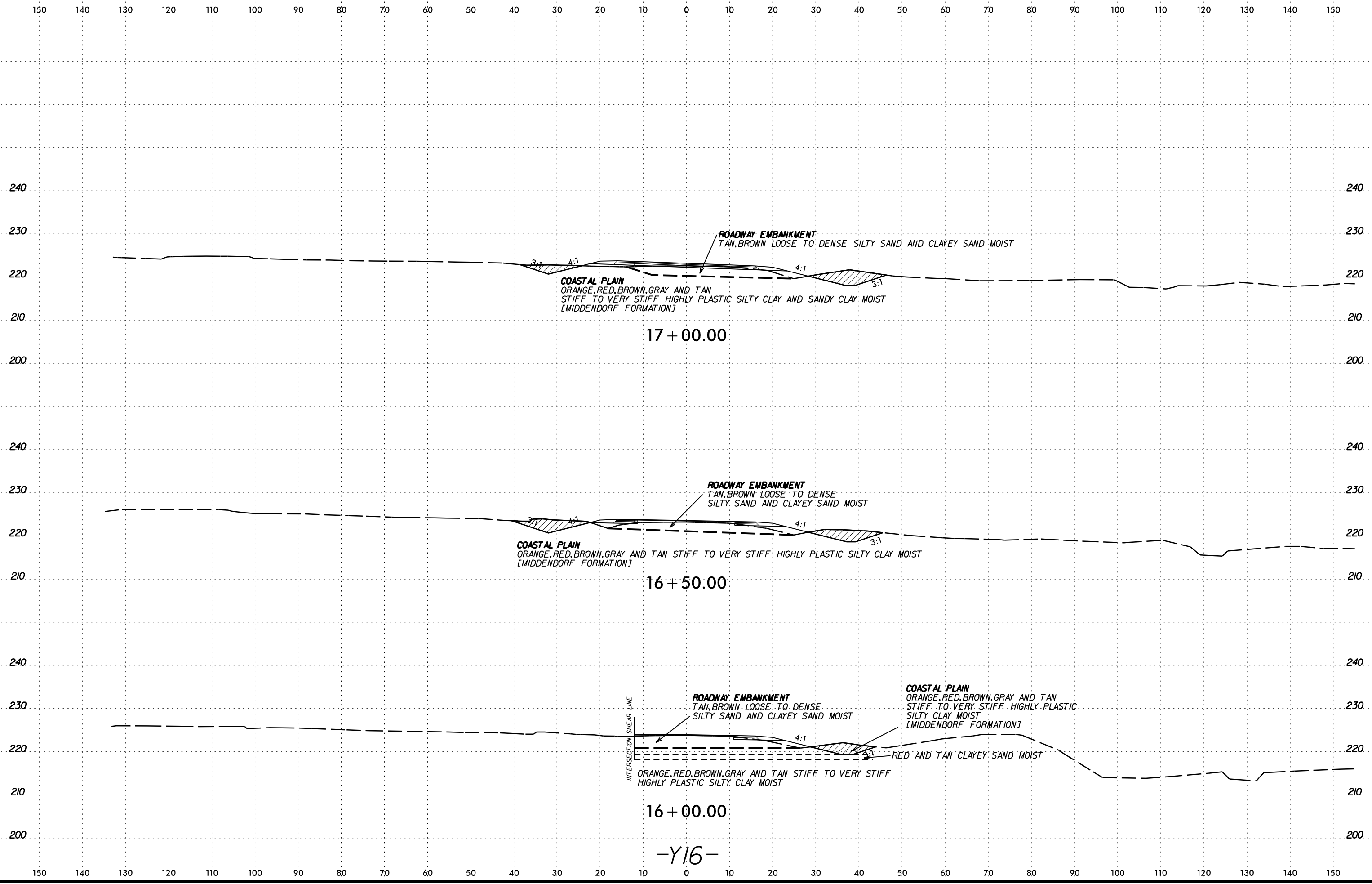


SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	ASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	200			
SS-182	15' LT	15+50	3, 4-4, 9	A-7-6-(7)	46	19	33	17	3	47	100	87	51.6	21.5	ND

SYTIME
CON
ARRIVE
JUL
ARRIVE

-Y16-



17 + 00.00

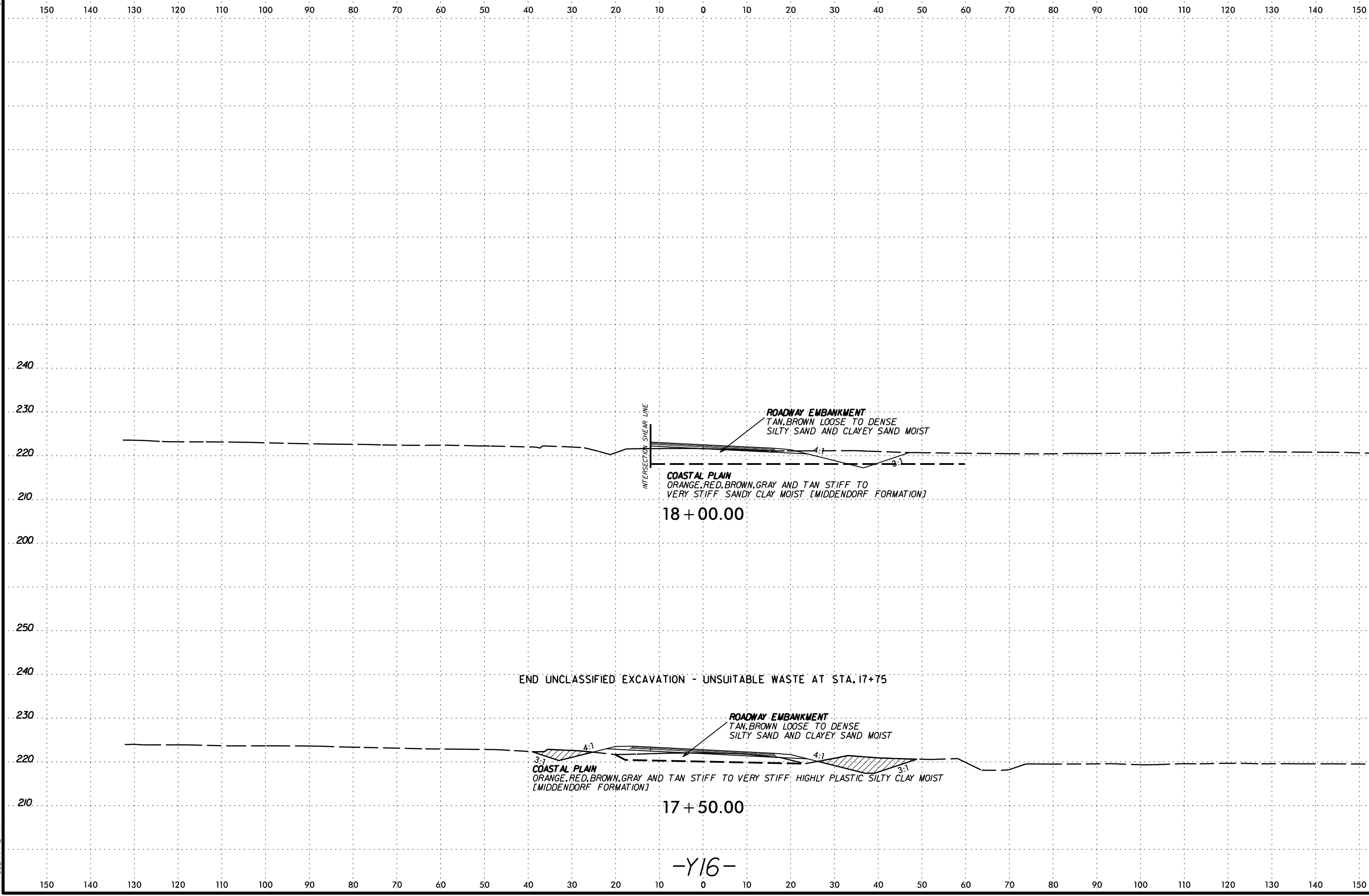
16 + 50.00

16 + 00.00

-Y16-

SYTIME
CON
SU
RNAME

6/23/16



18 + 00.00

17 + 50.00

-Y16-

END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 17+75

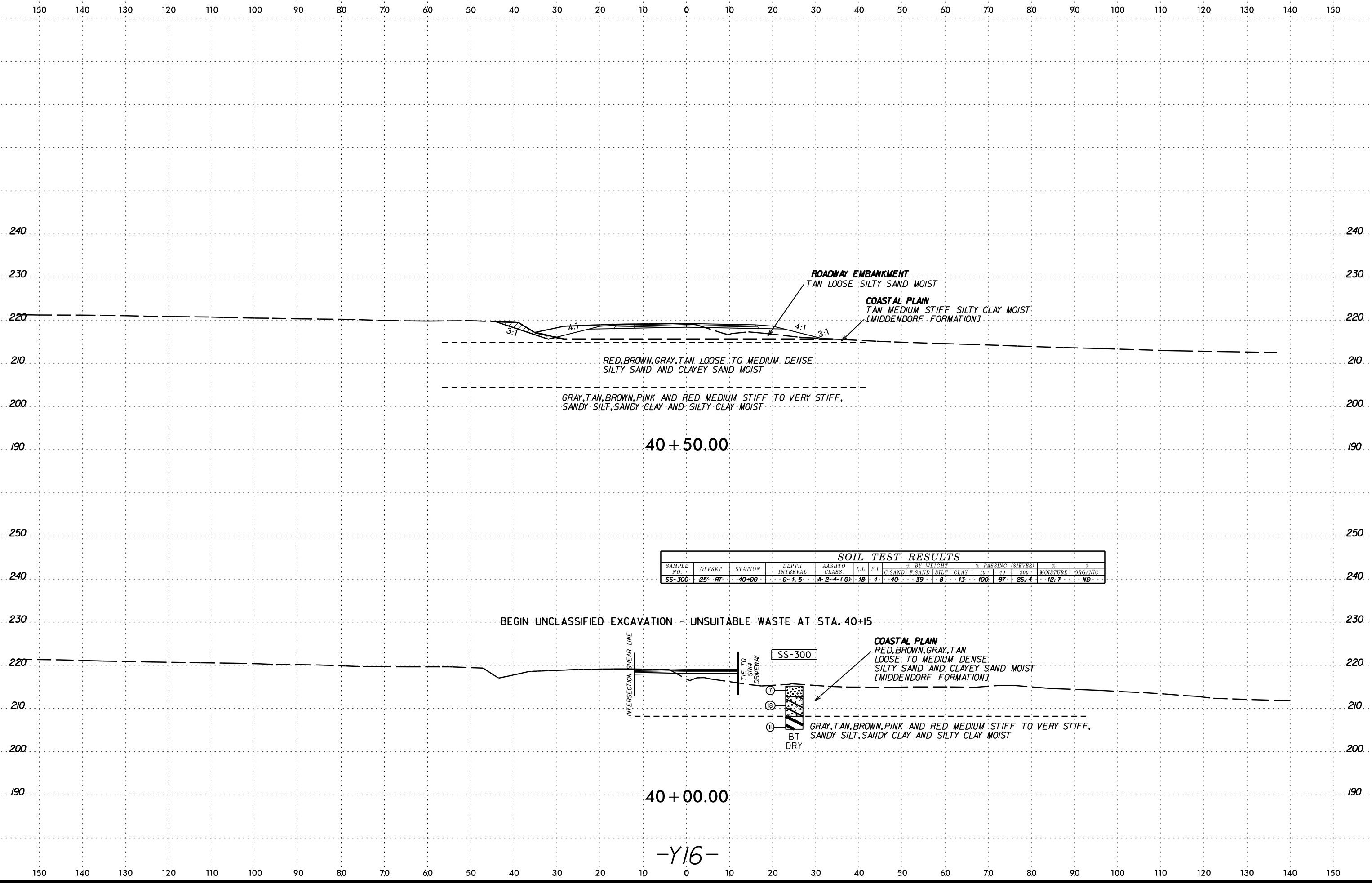
ROADWAY EMBANKMENT
TAN, BROWN LOOSE TO DENSE
SILTY SAND AND CLAYEY SAND MOIST

COASTAL PLAIN
ORANGE, RED, BROWN, GRAY AND TAN STIFF TO
VERY STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]

ROADWAY EMBANKMENT
TAN, BROWN LOOSE TO DENSE
SILTY SAND AND CLAYEY SAND MOIST

COASTAL PLAIN
ORANGE, RED, BROWN, GRAY AND TAN STIFF TO VERY STIFF HIGHLY PLASTIC SILTY CLAY MOIST
[MIDDENDORF FORMATION]

INTERSECTION SHEAR LINE

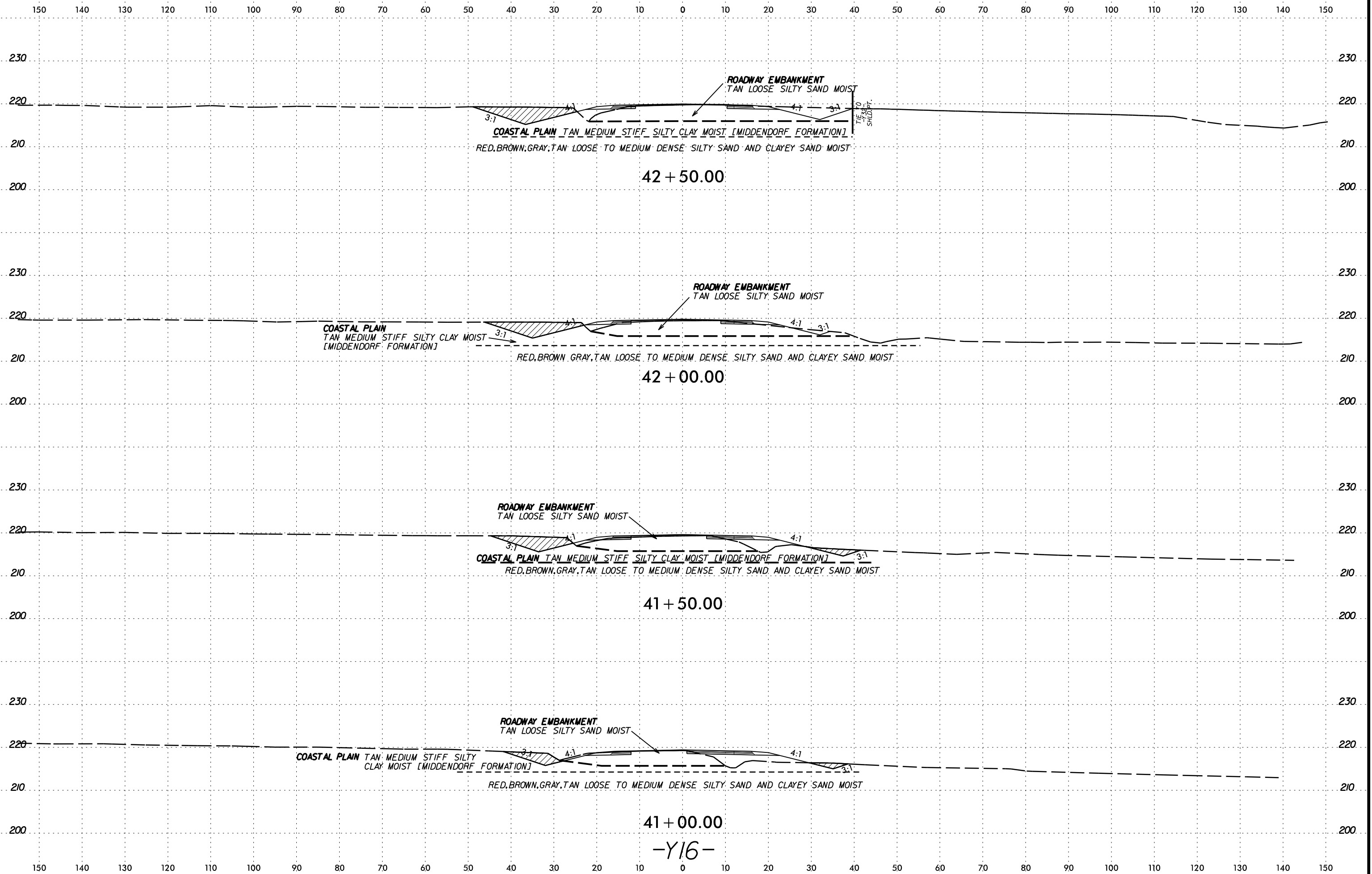


SOIL TEST RESULTS

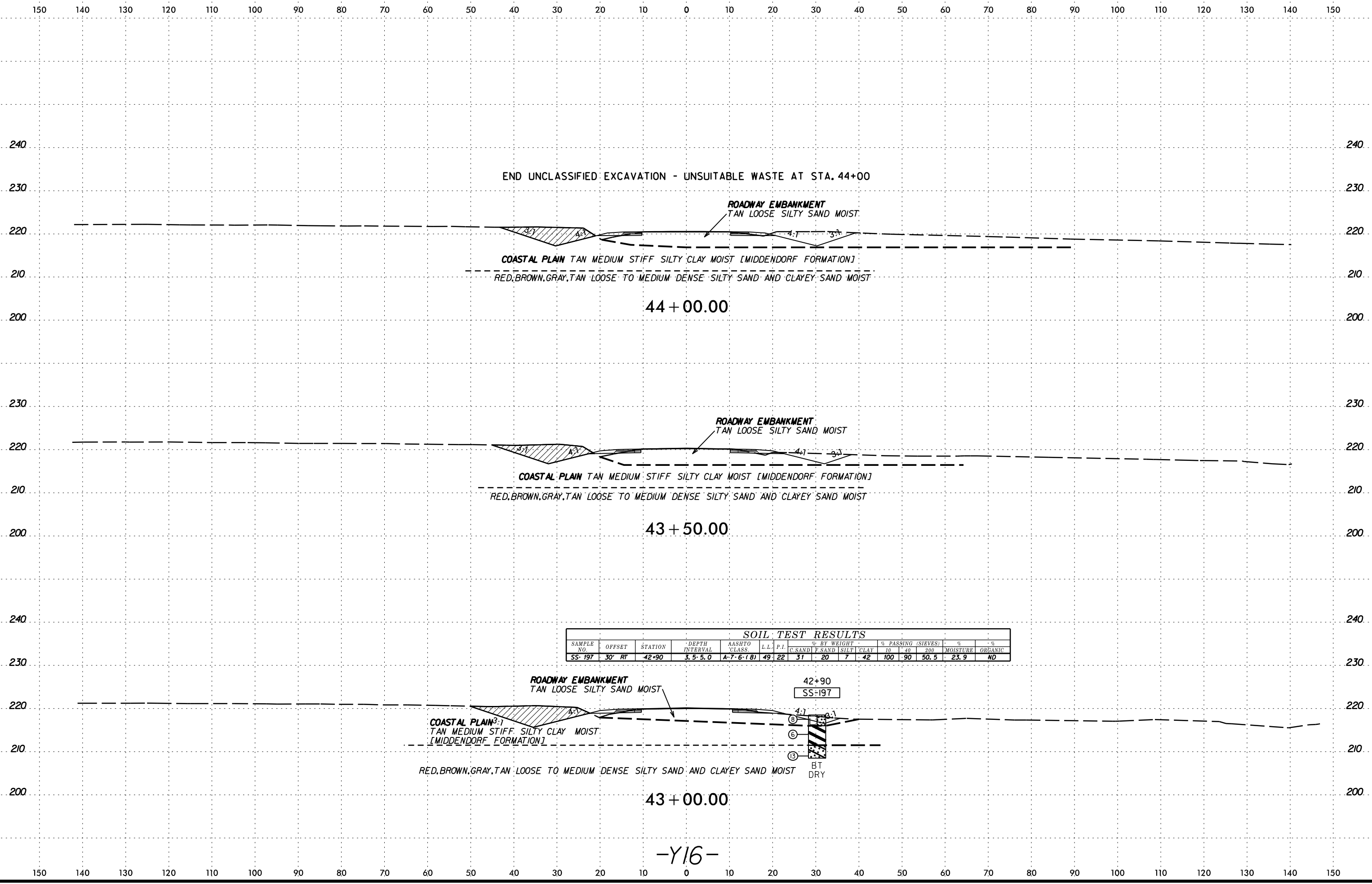
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	ORGANIC	
							C.SAND	F.SAND	SILT	CLAY	10	200			
SS-300	25' RF	40+00	0-1.5	A-2-4-10	18	1	40	39	8	13	100	87	26.4	12.7	ND

SCHEMATIC CONSTRUCTION
 SHEET 101 OF 101
 DATE 6/23/16

6/23/16

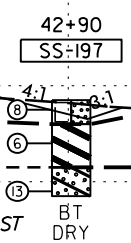


SYTIME
CON
ARRIVE

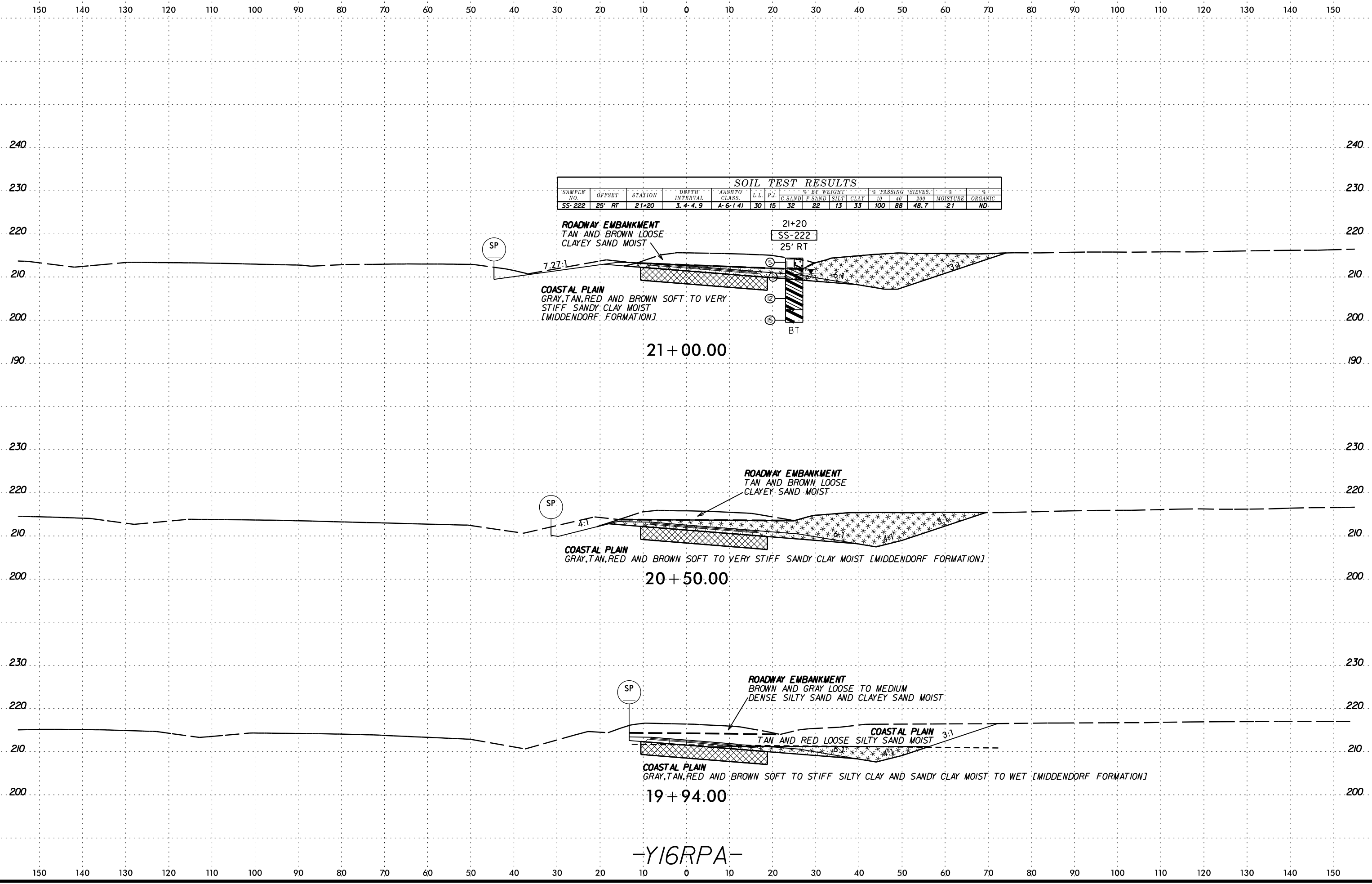


SOIL TEST RESULTS

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-197	30' RT	42+90	3.5-5.0	A-7.6-(8)	49	22	31	20	7	42	100	90	50.5	23.9	ND



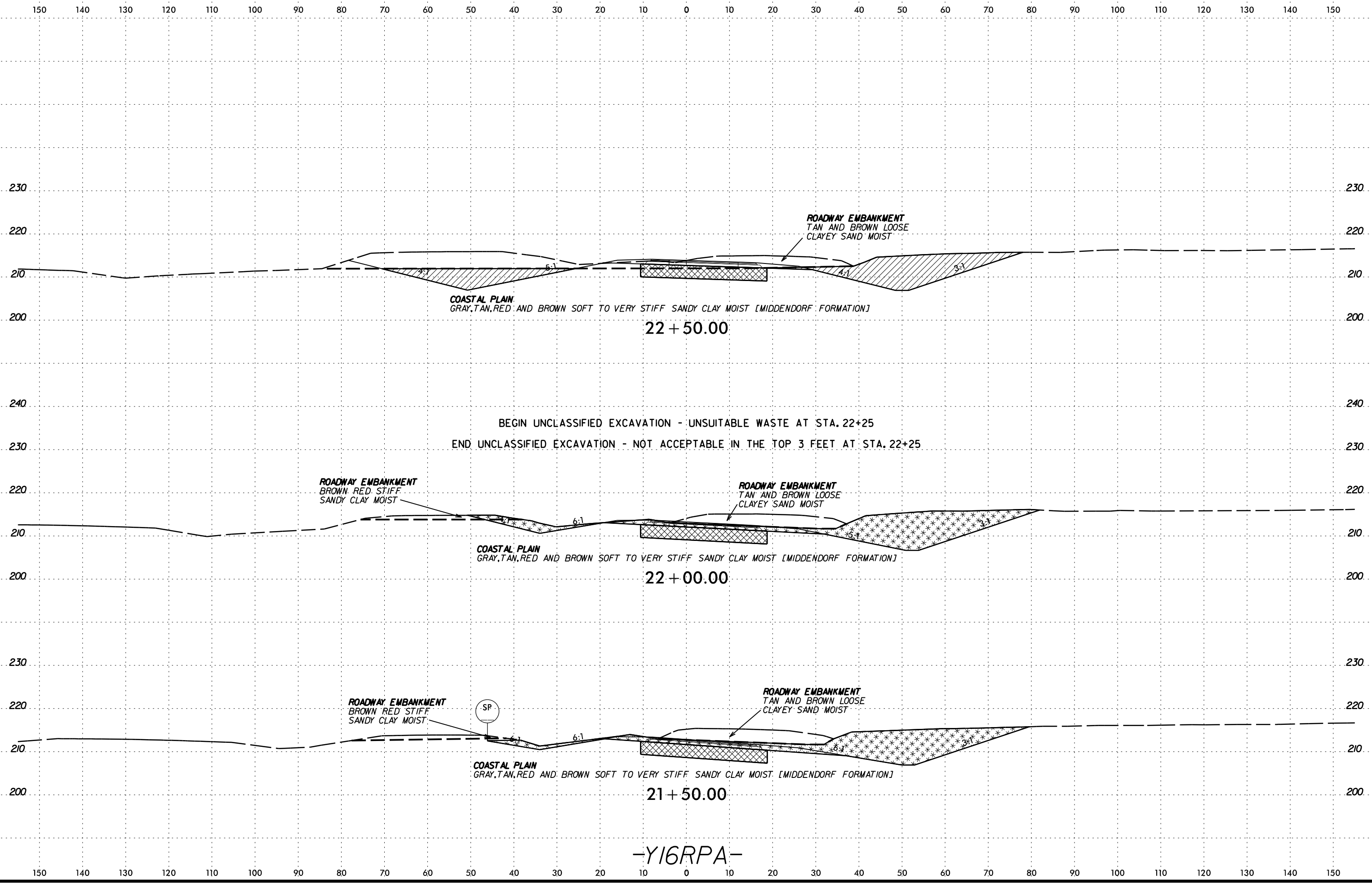
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	BY WEIGHT				PASSING (SIEVES)			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-222	25' RT	21+20	3.4-4.9	A-6-(4)	30	15	32	22	13	33	100	88	48.7	21	ND



-Y16RPA-

DATE PLOTTED: 6/23/16
SCALE: 1"=20'
PROJECT: I-5986B
SHEET: 105

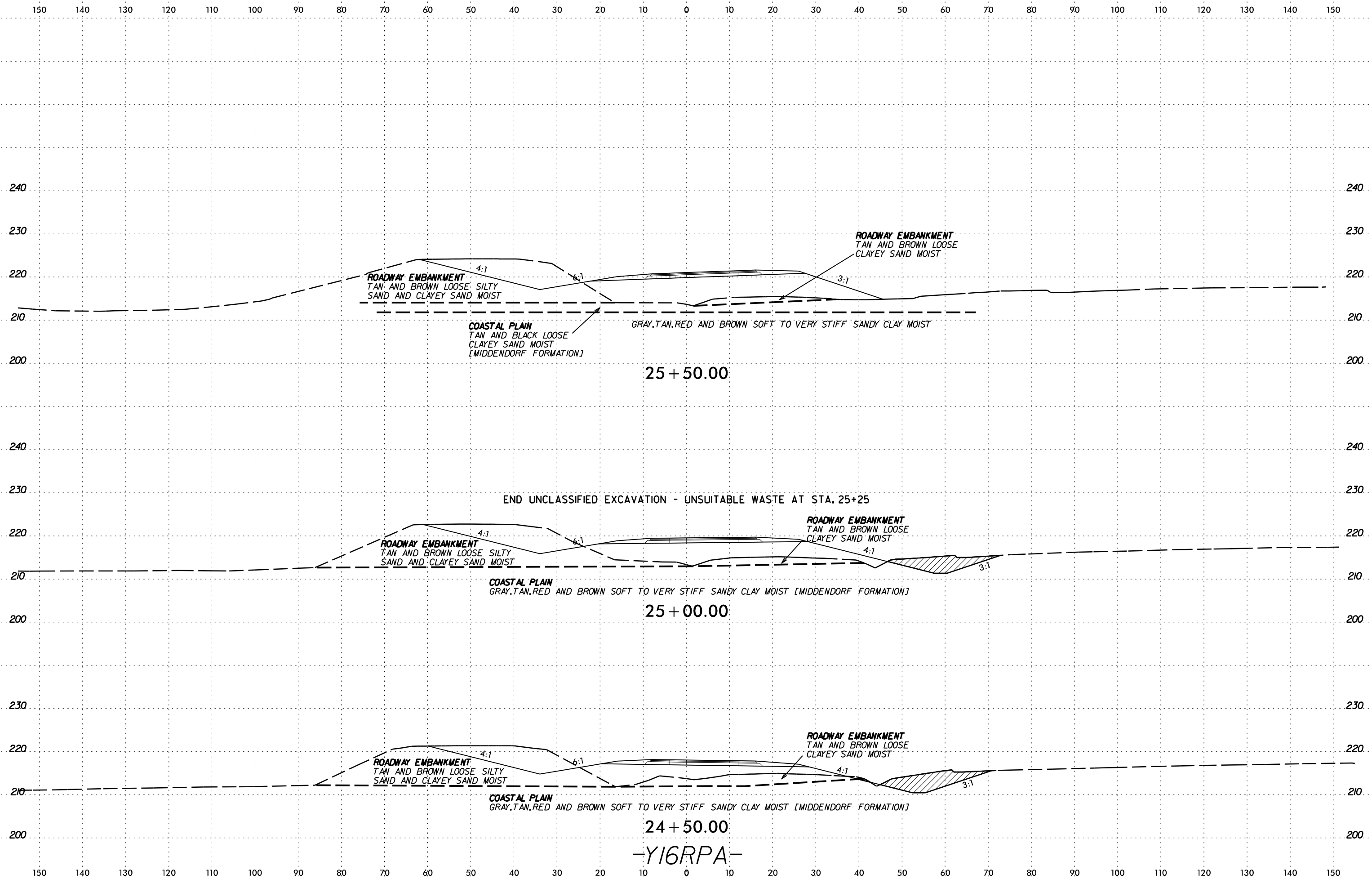
6/23/16



-Y16RPA-

SCHEMATIC CONSTRUCTION PLAN

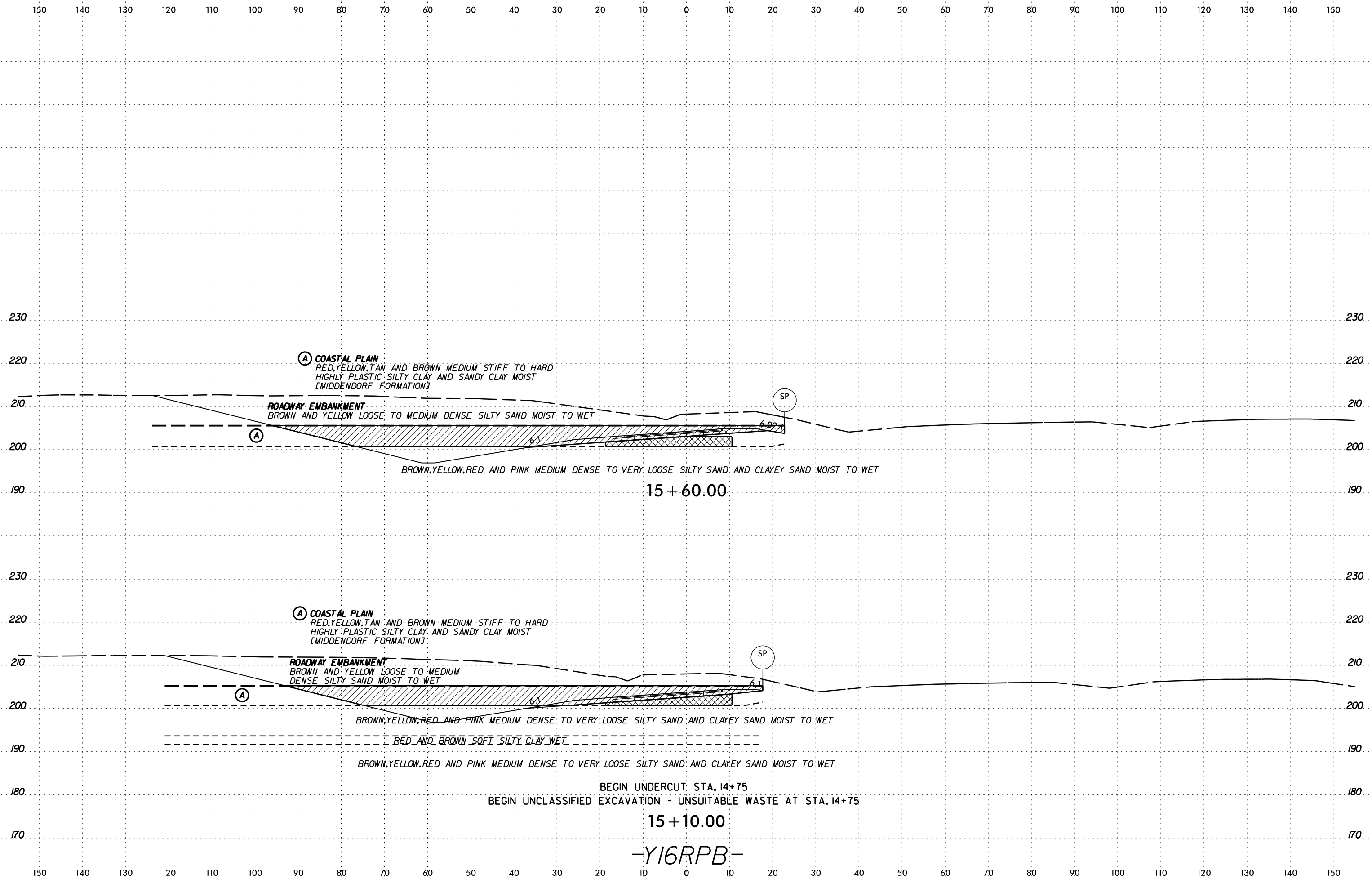
6/23/16



-Y16RPA-

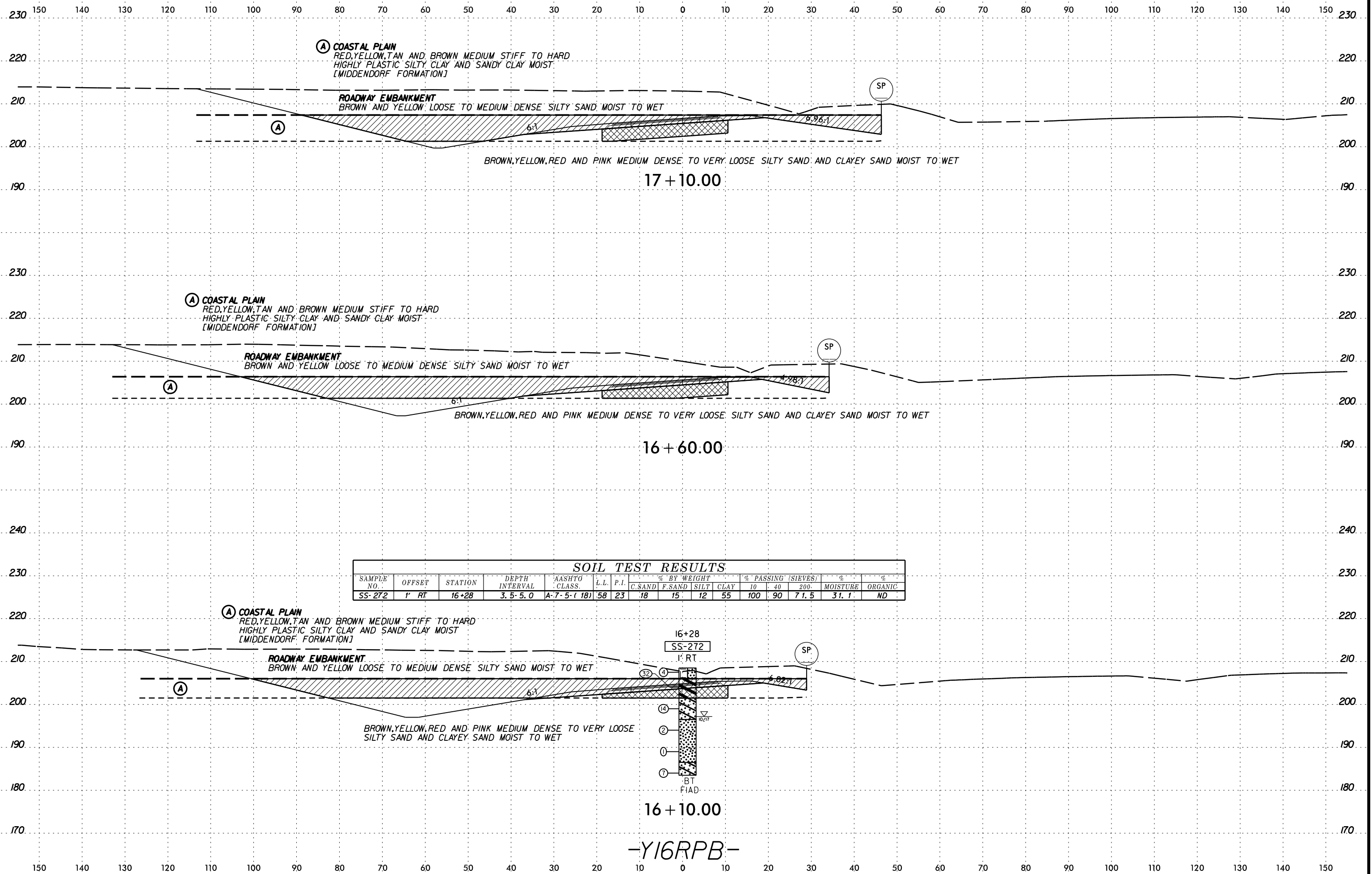
SCHEMATIC CROSS SECTION
DATE: 6/23/16
BY: [unreadable]

6/23/16



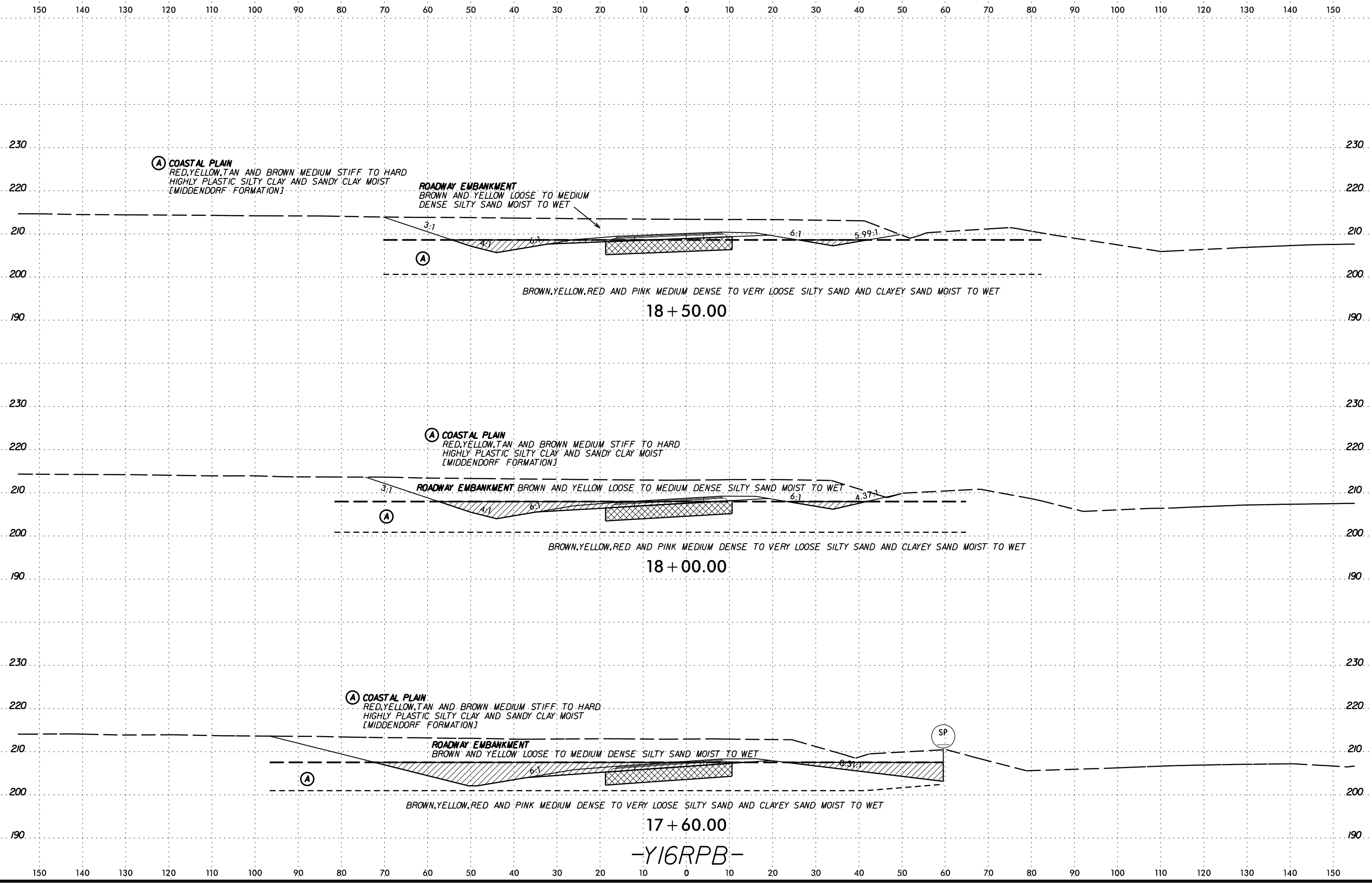
SECTION CUTLINE

6/23/16



-Y16RPB-

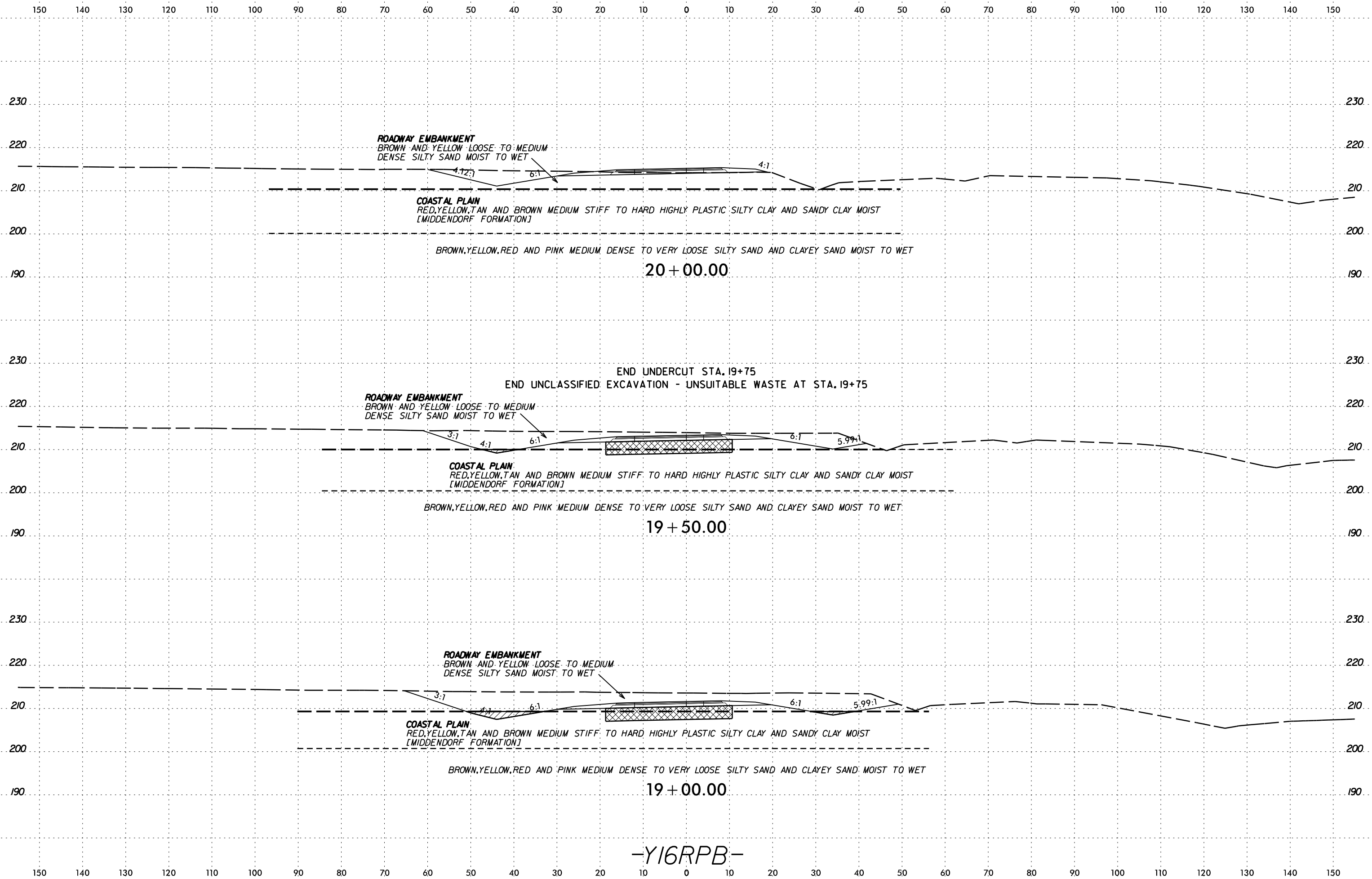
6/23/16



SYTIME
CON
ARRIVE

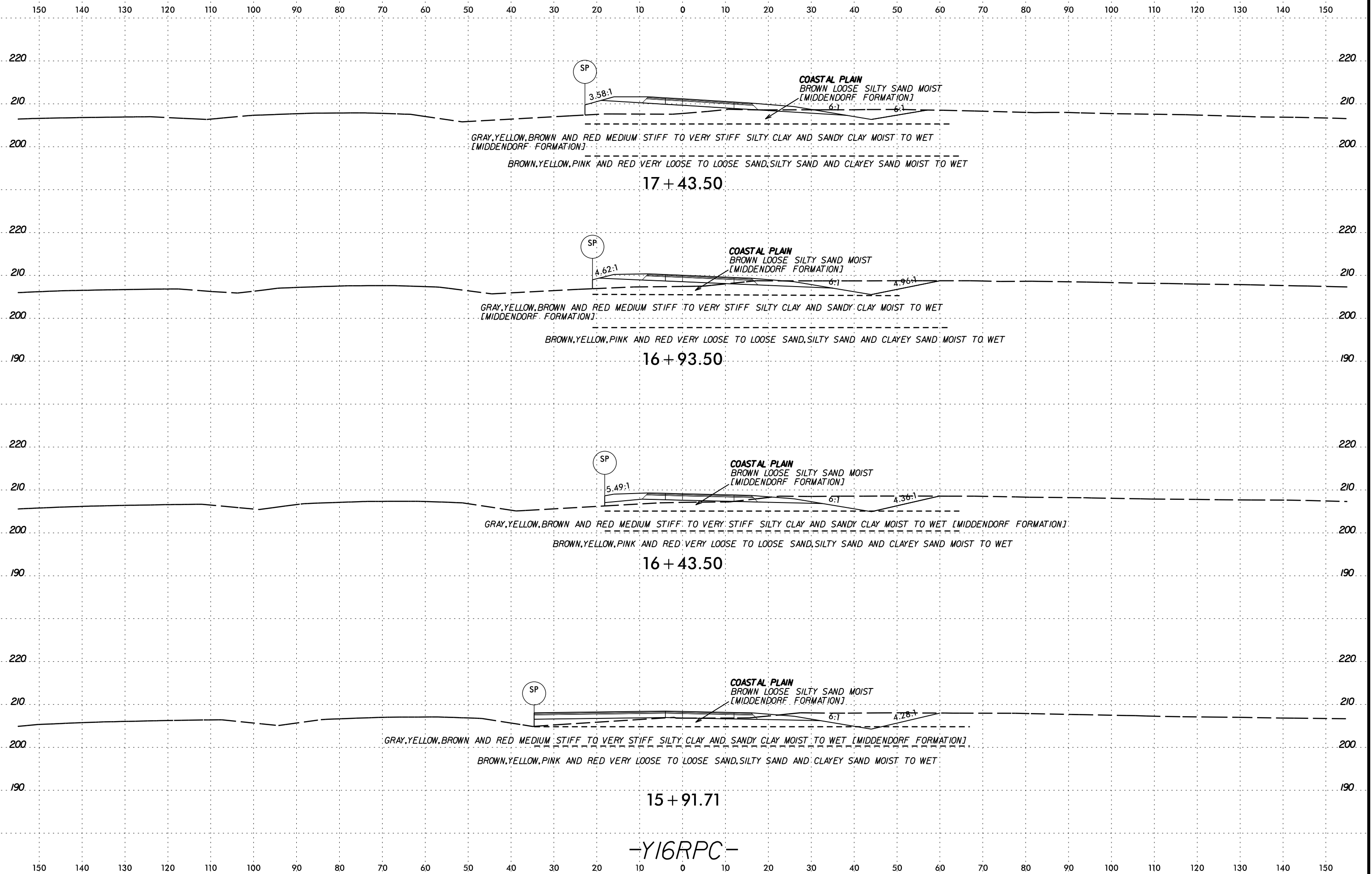
-Y16RPB-

6/23/16



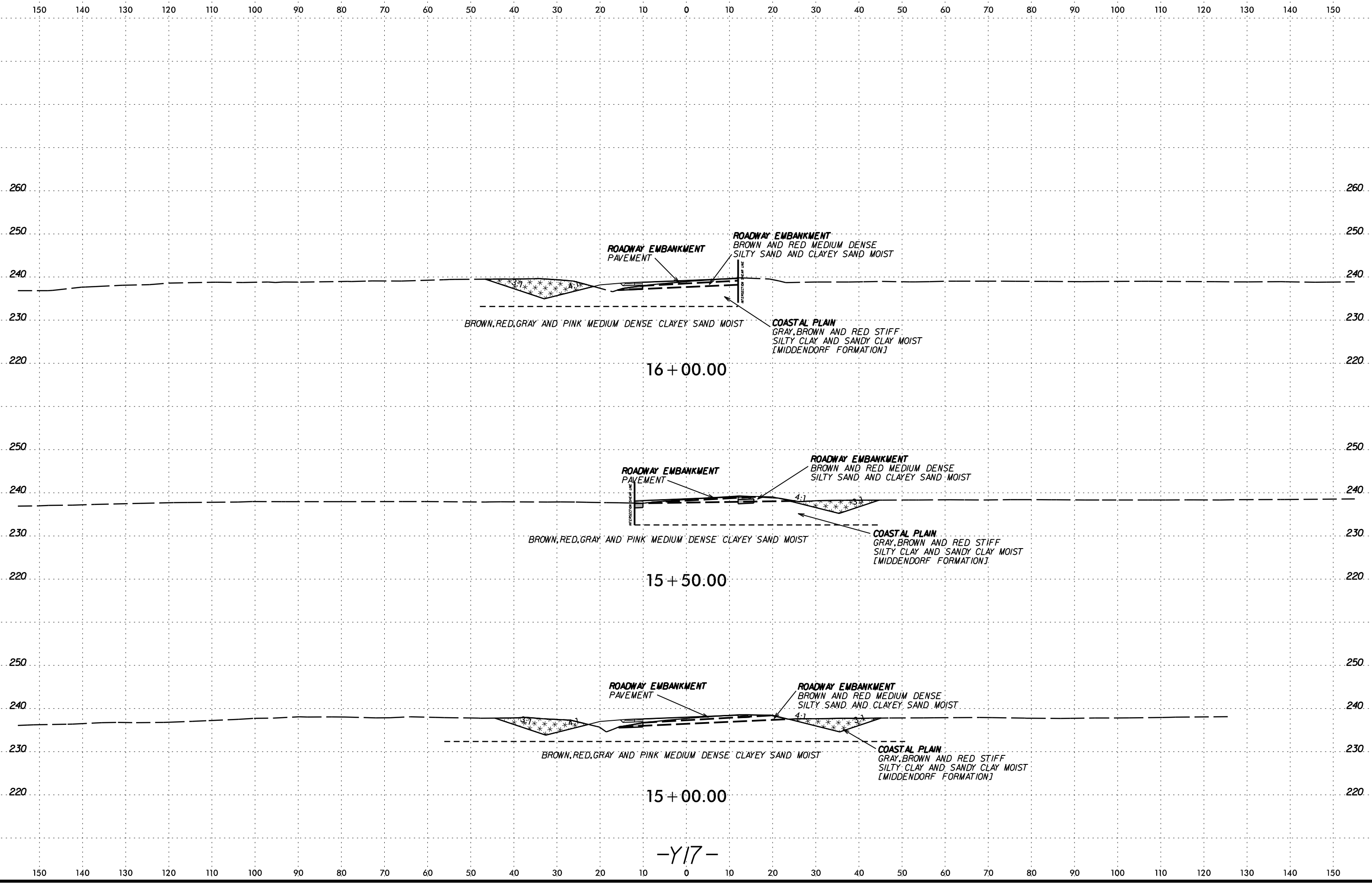
-Y16RPB-

SYTIME
CON
JUL
ARRIVE



-Y16RPC-

DATE: 6/23/16
 DRAWN BY: [unreadable]
 CHECKED BY: [unreadable]
 APPROVED BY: [unreadable]



16 + 00.00

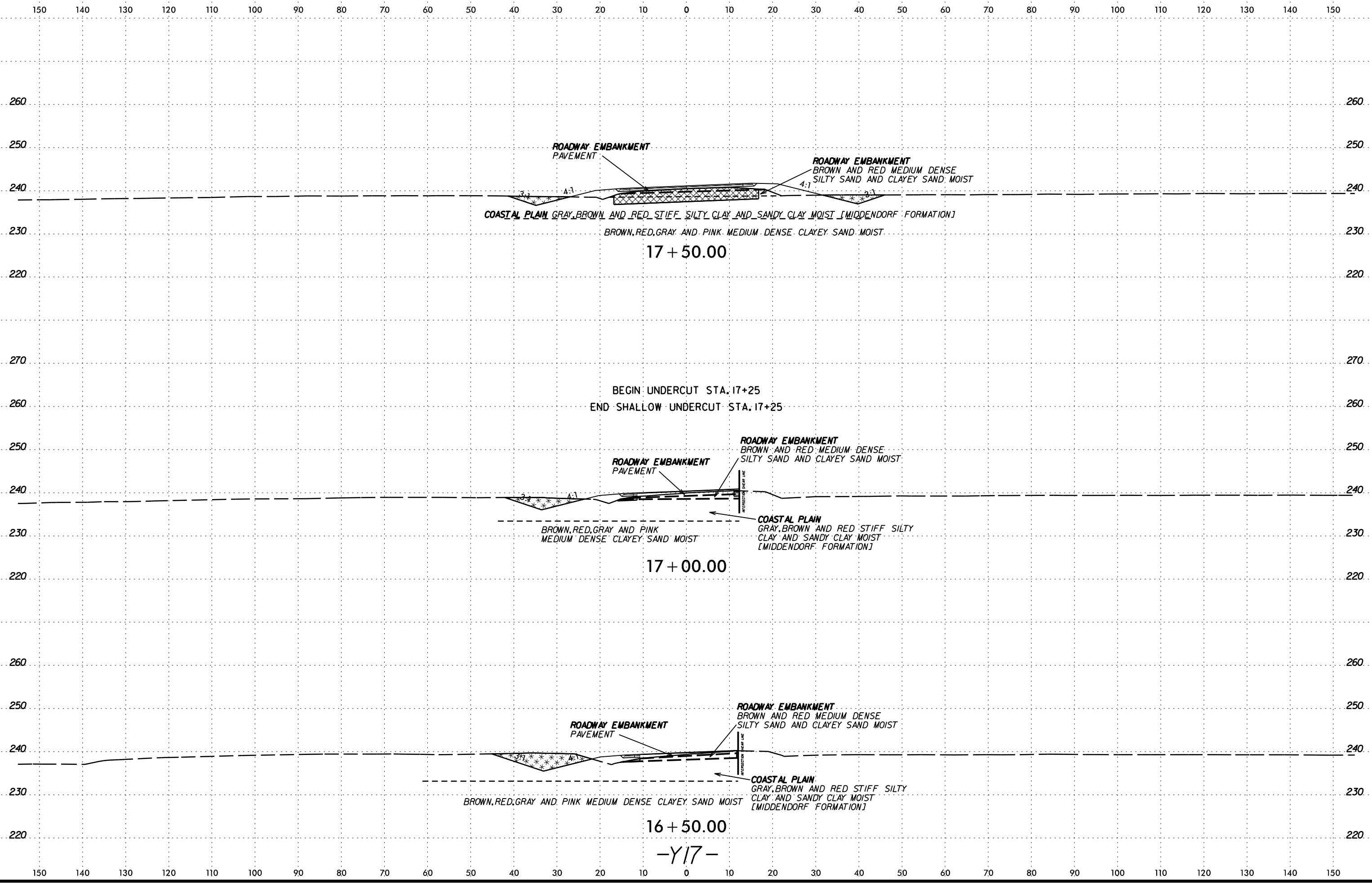
15 + 50.00

15 + 00.00

-Y17-

SYTIME
CON
ARRIVE

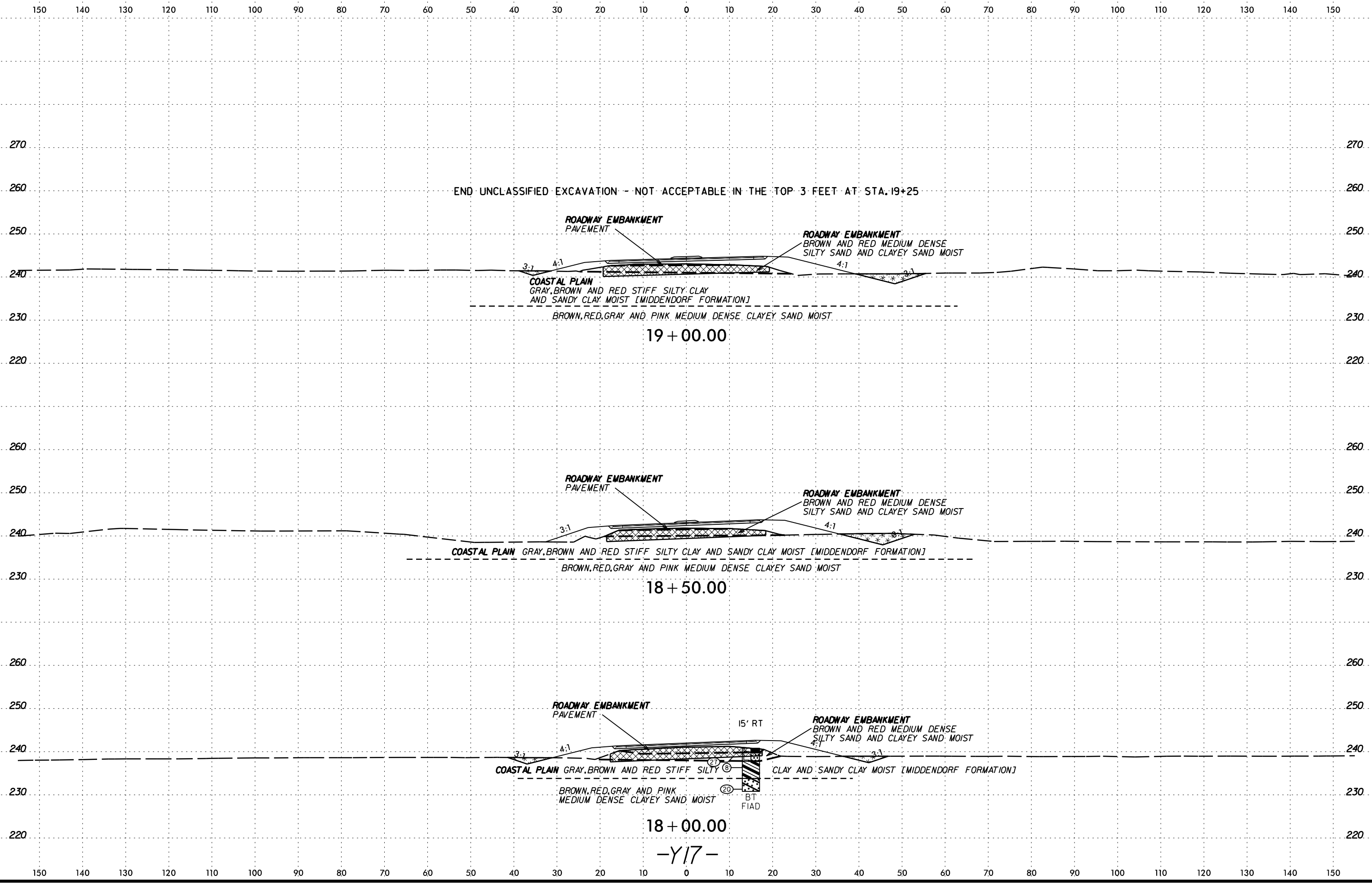
6/23/16



SYTIME
CON
ARRANGE

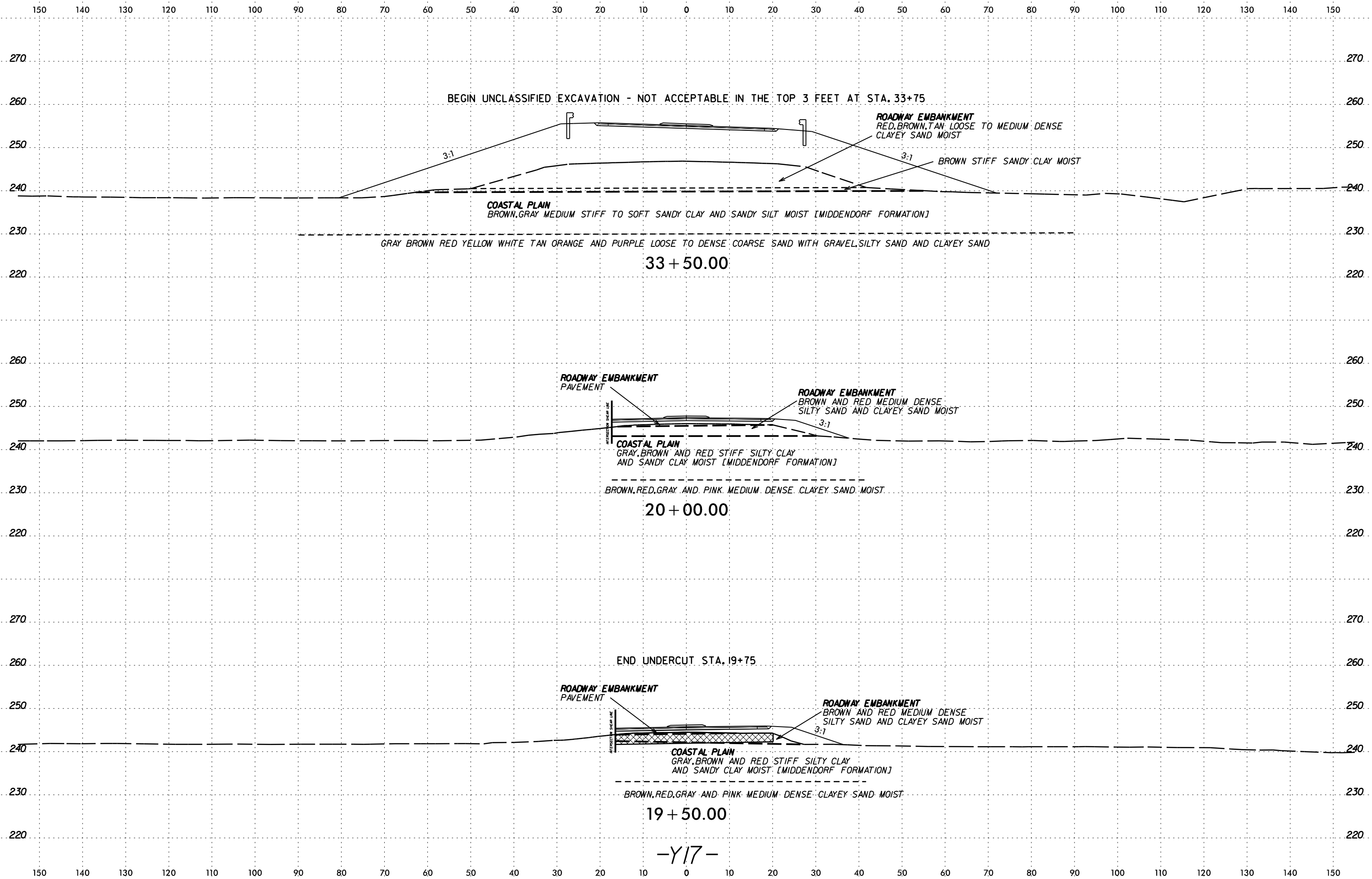
17 + 50.00
17 + 00.00
16 + 50.00
-Y17-

6/23/16



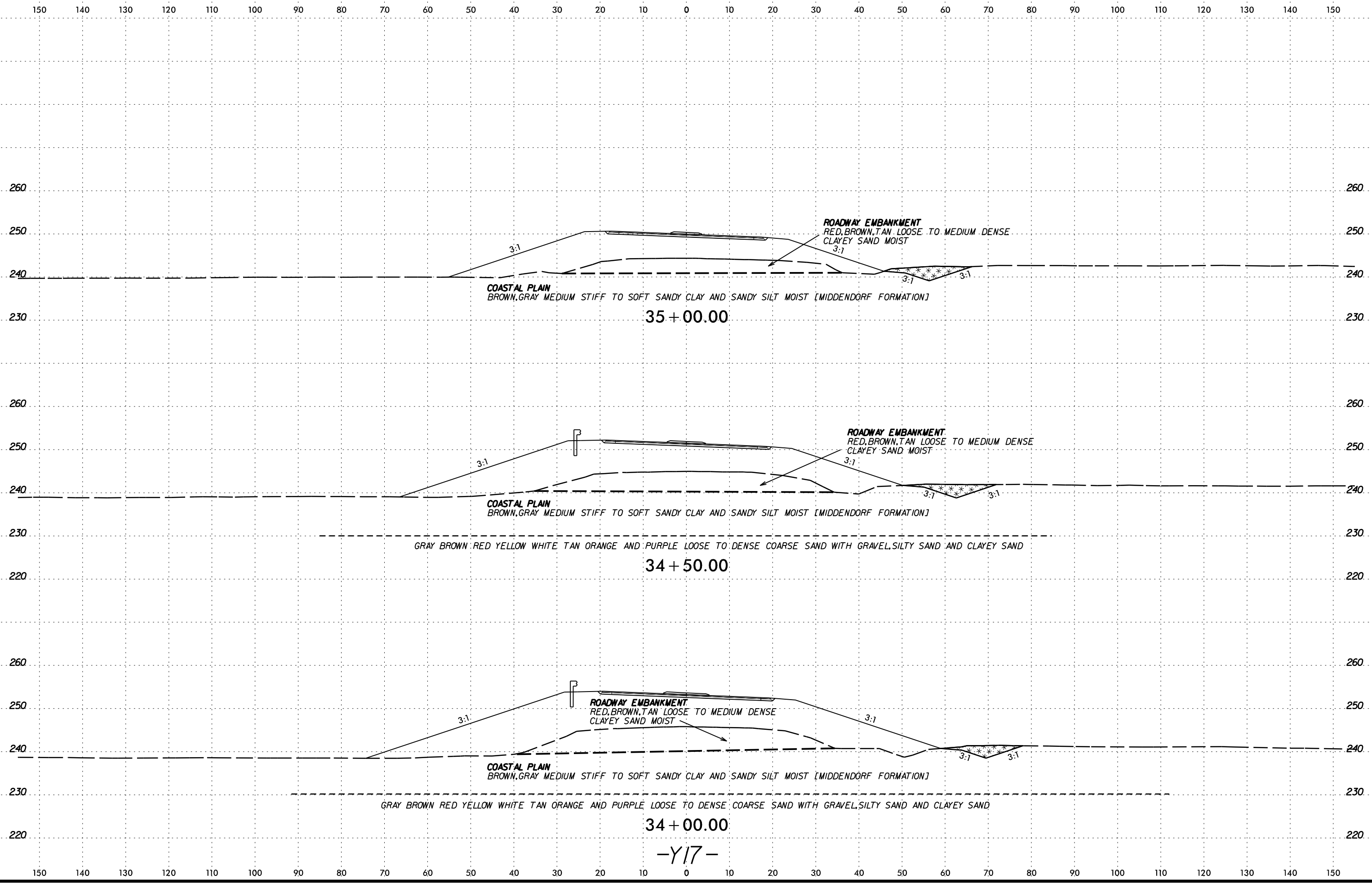
SYTIME
CON
ARRIVE

6/23/16



SYTIME
CON
ARRIVE

6/23/16



SYNTHETIC
CUTTING
PLANE

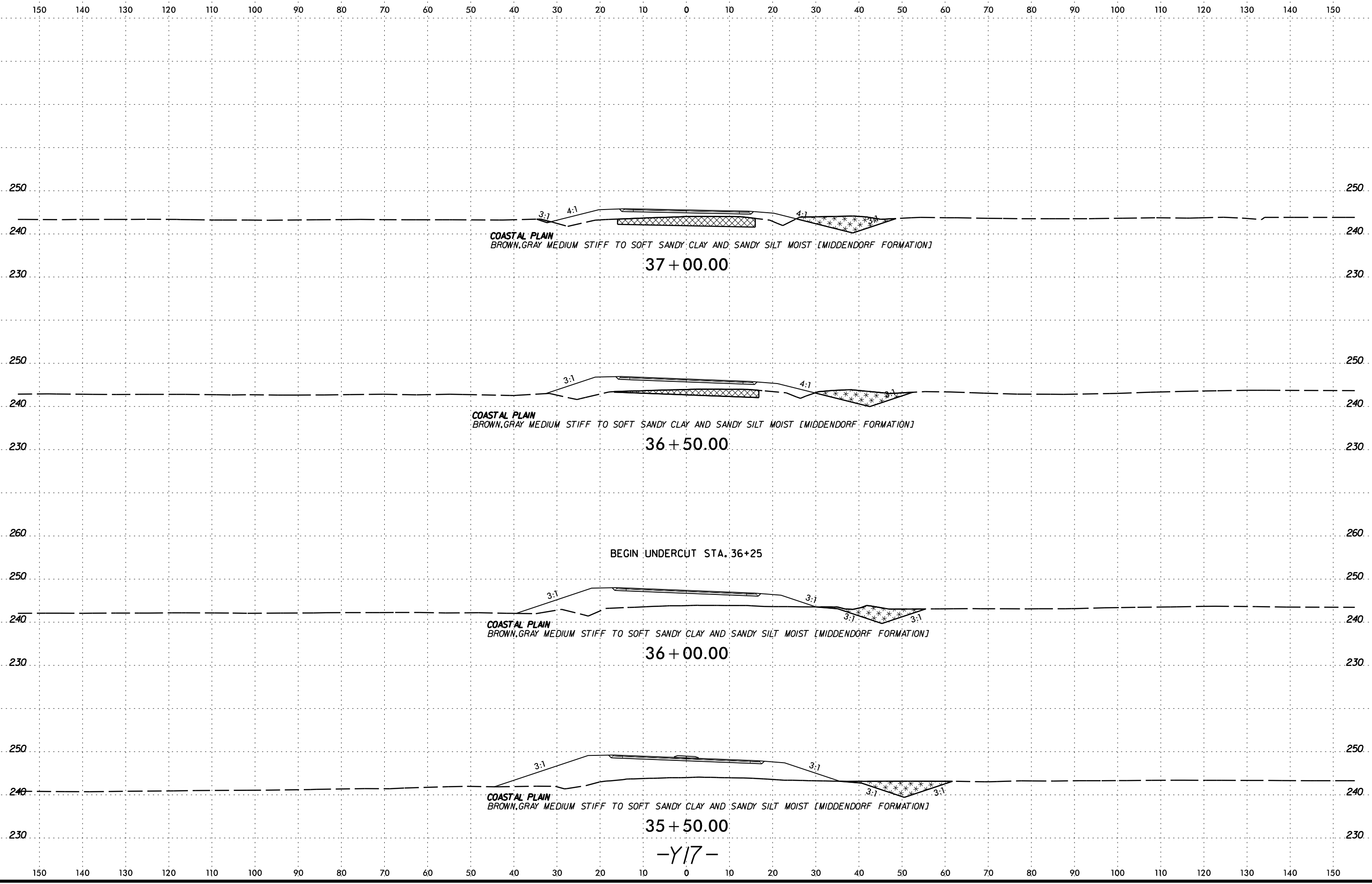
35 + 00.00

34 + 50.00

34 + 00.00

-Y17-

6/23/16



COASTAL PLAIN
BROWN, GRAY MEDIUM STIFF TO SOFT SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]

37 + 00.00

COASTAL PLAIN
BROWN, GRAY MEDIUM STIFF TO SOFT SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]

36 + 50.00

BEGIN UNDERCUT STA. 36+25

COASTAL PLAIN
BROWN, GRAY MEDIUM STIFF TO SOFT SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]

36 + 00.00

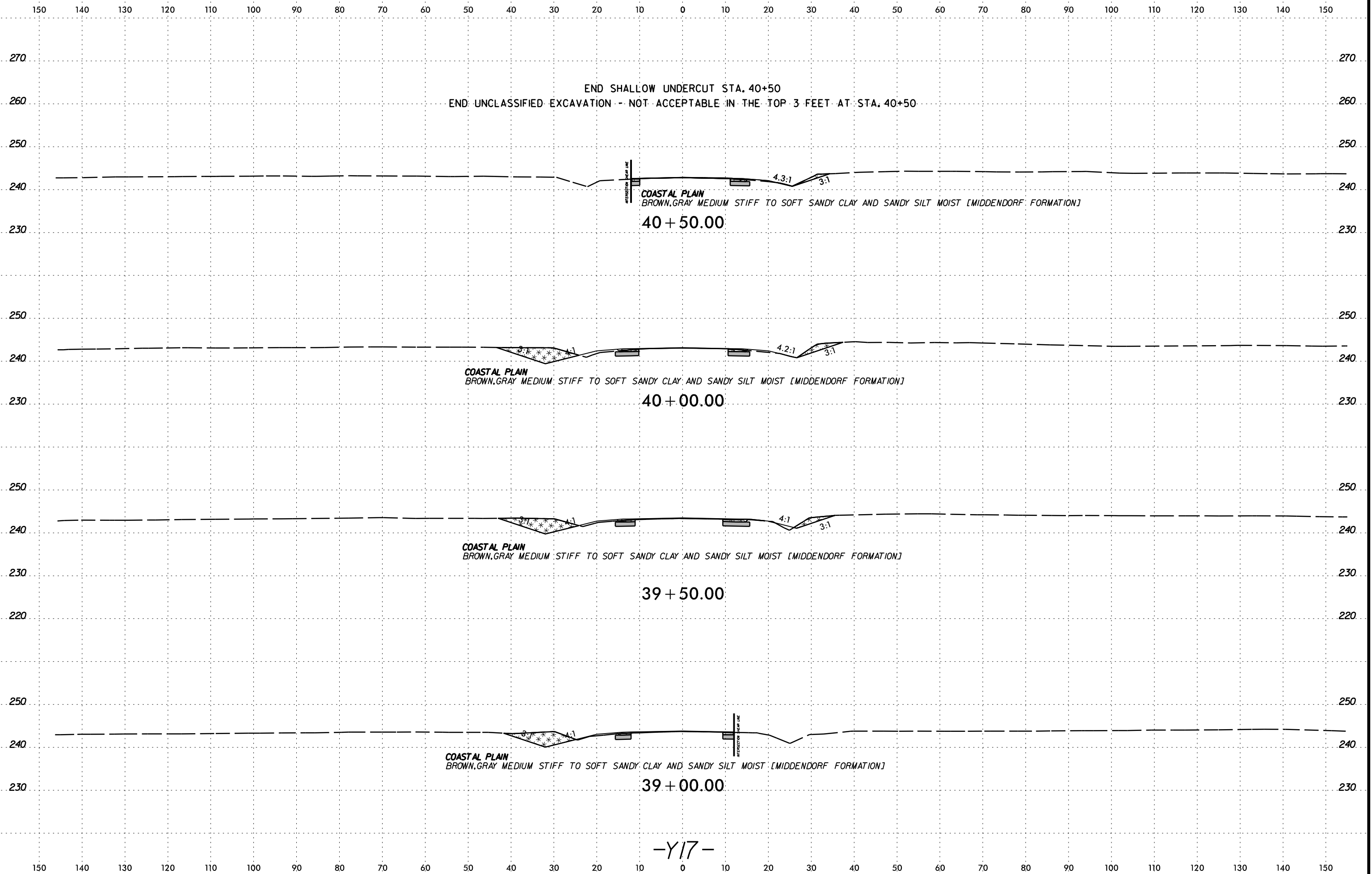
COASTAL PLAIN
BROWN, GRAY MEDIUM STIFF TO SOFT SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]

35 + 50.00

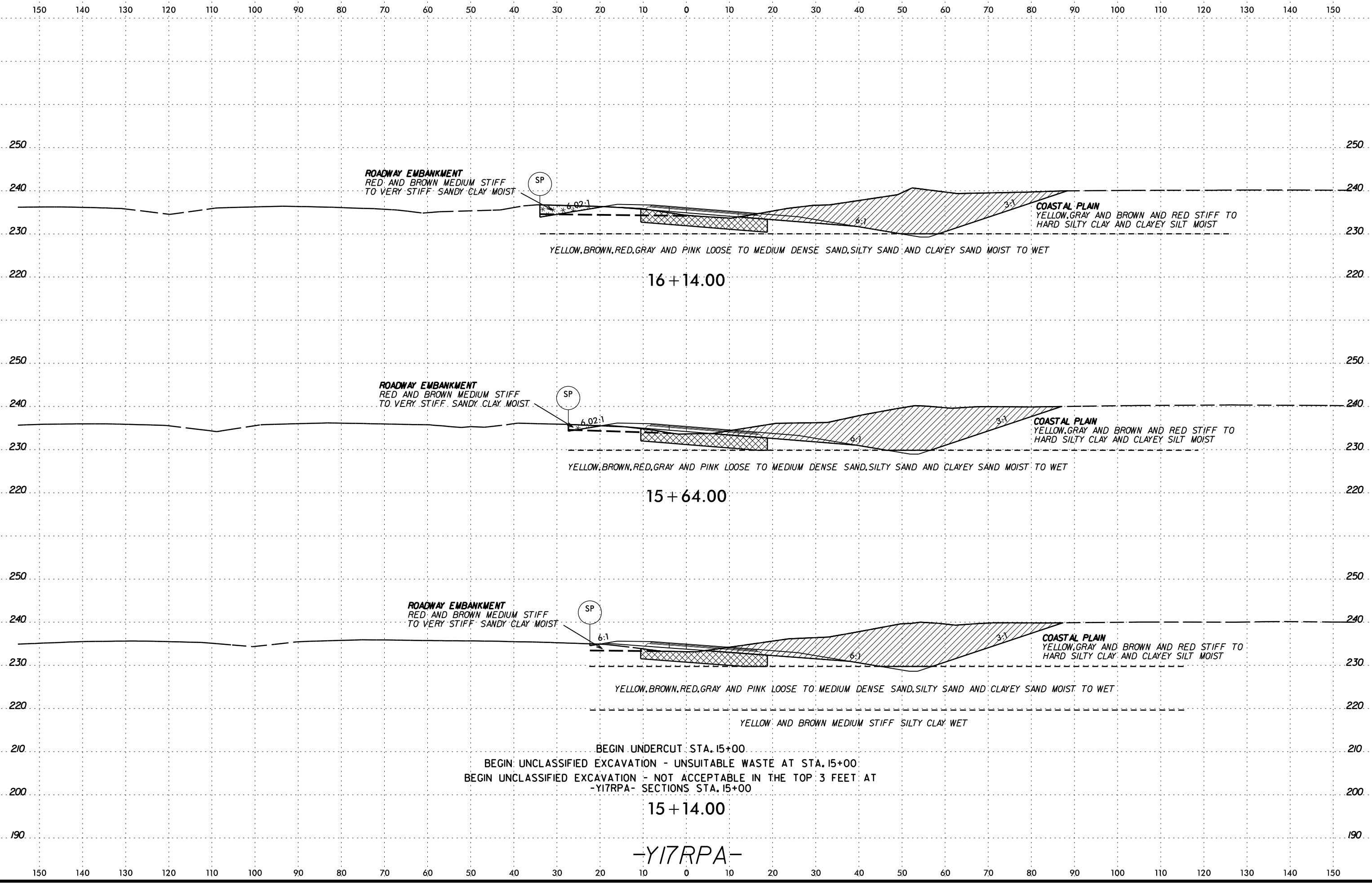
-Y17-

DATE PLOTTED: 6/23/16
 PLOT SCALE: 1"=40'
 PLOT SHEET: 120 OF 120
 PLOT PROJECT: I-5986B
 PLOT DRAWING: Y17

6/23/16
SYTIME
CON
JUL
ARRIVE

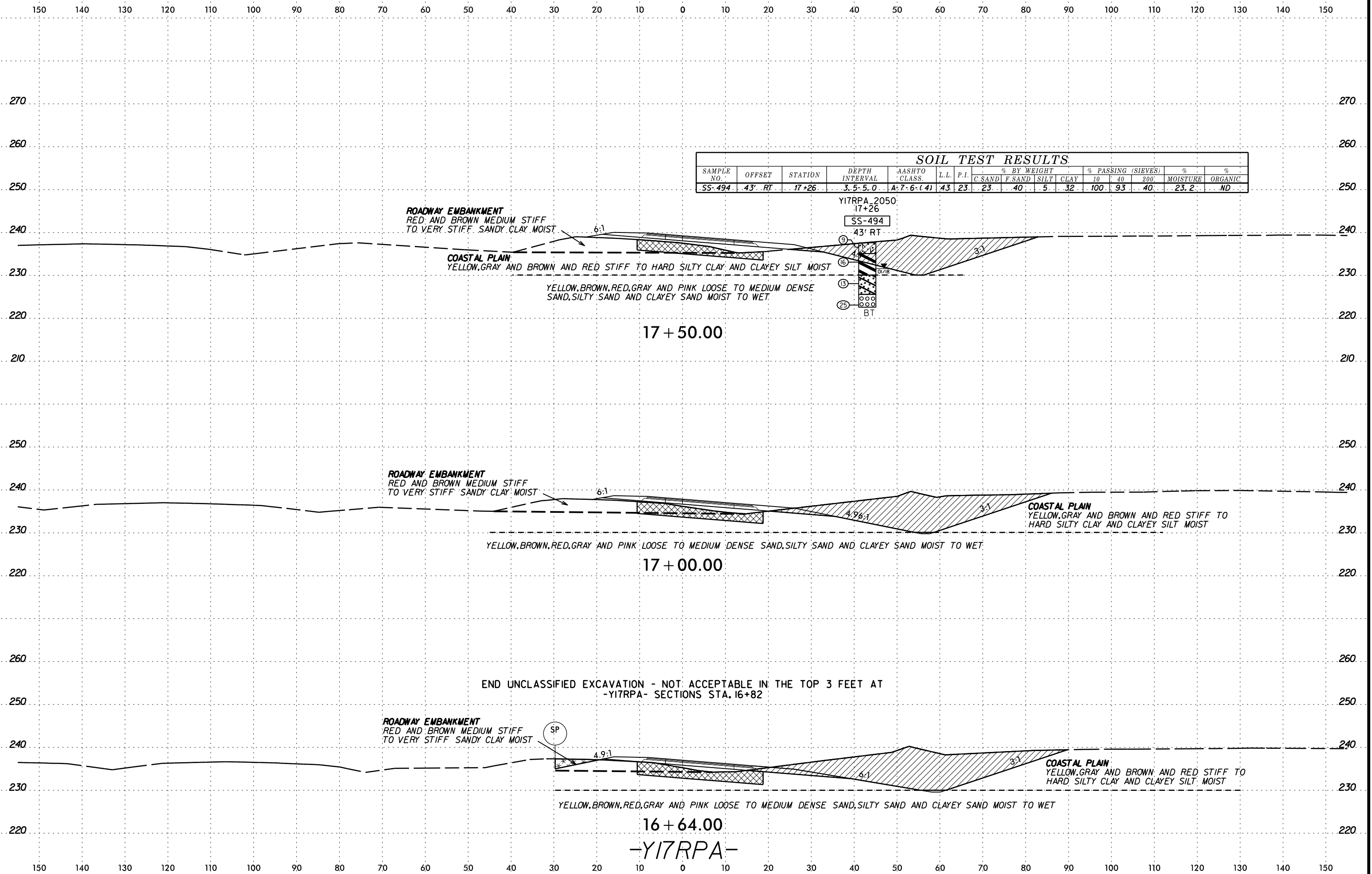


6/23/16



SECTION ON
PLAN
DATE

6/23/16

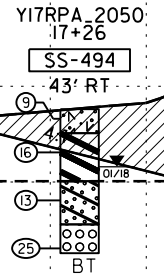


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C.SAND	F.SAND	SILT	CLAY	10	40			200
SS-494	43' RT	17+26	3.5-5.0	A-7-6-(4)	43	23	23	40	5	32	100	93	40	23.2	ND

ROADWAY EMBANKMENT
 RED AND BROWN MEDIUM STIFF
 TO VERY STIFF SANDY CLAY MOIST

COASTAL PLAIN
 YELLOW, GRAY AND BROWN AND RED STIFF TO HARD SILTY CLAY AND CLAYEY SILT MOIST

YELLOW, BROWN, RED, GRAY AND PINK LOOSE TO MEDIUM DENSE
 SAND, SILTY SAND AND CLAYEY SAND MOIST TO WET.



ROADWAY EMBANKMENT
 RED AND BROWN MEDIUM STIFF
 TO VERY STIFF SANDY CLAY MOIST

COASTAL PLAIN
 YELLOW, GRAY AND BROWN AND RED STIFF TO
 HARD SILTY CLAY AND CLAYEY SILT MOIST

YELLOW, BROWN, RED, GRAY AND PINK LOOSE TO MEDIUM DENSE SAND, SILTY SAND AND CLAYEY SAND MOIST TO WET.

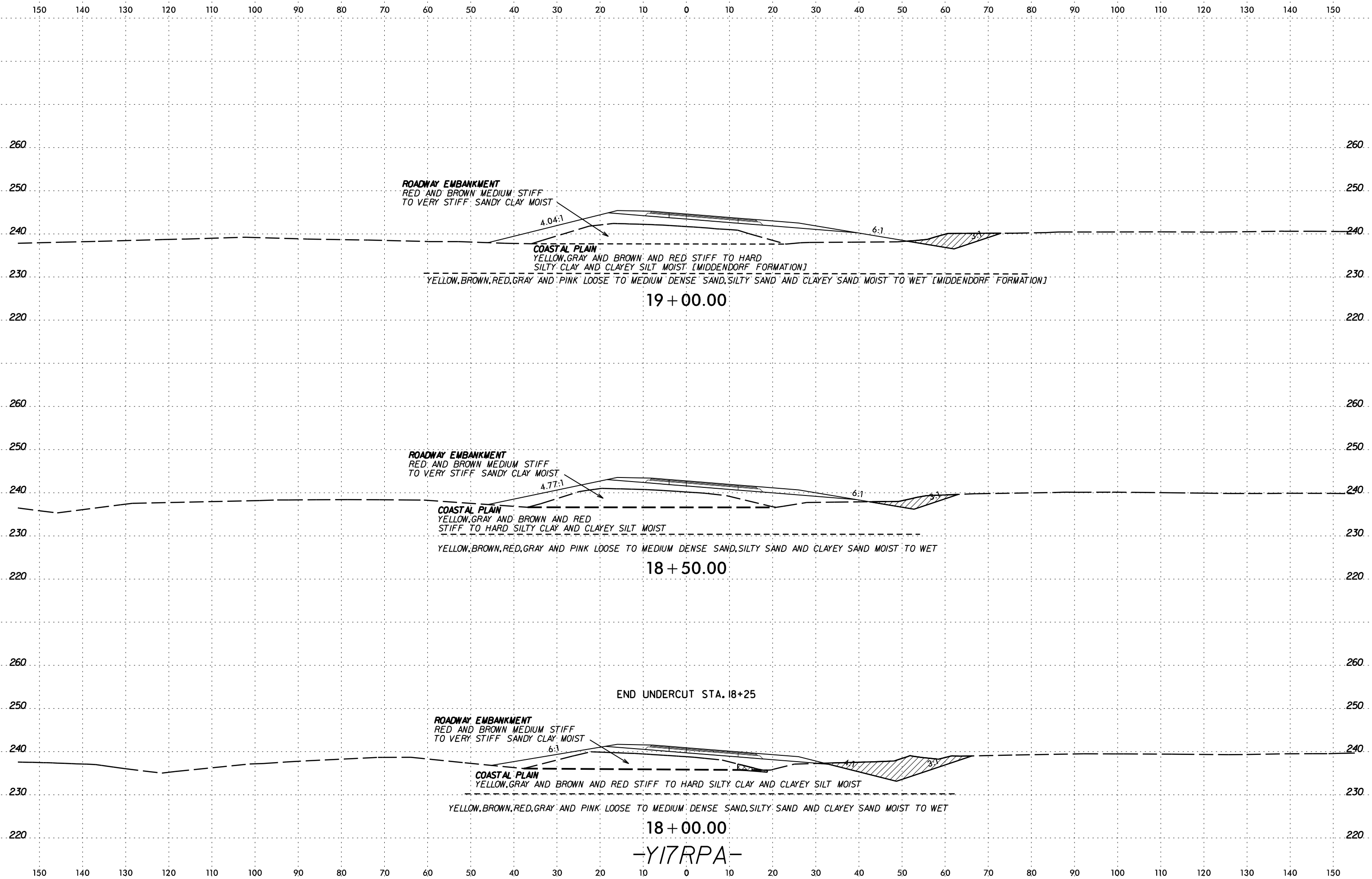
END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT
 -Y17RPA- SECTIONS STA. 16+82

ROADWAY EMBANKMENT
 RED AND BROWN MEDIUM STIFF
 TO VERY STIFF SANDY CLAY MOIST

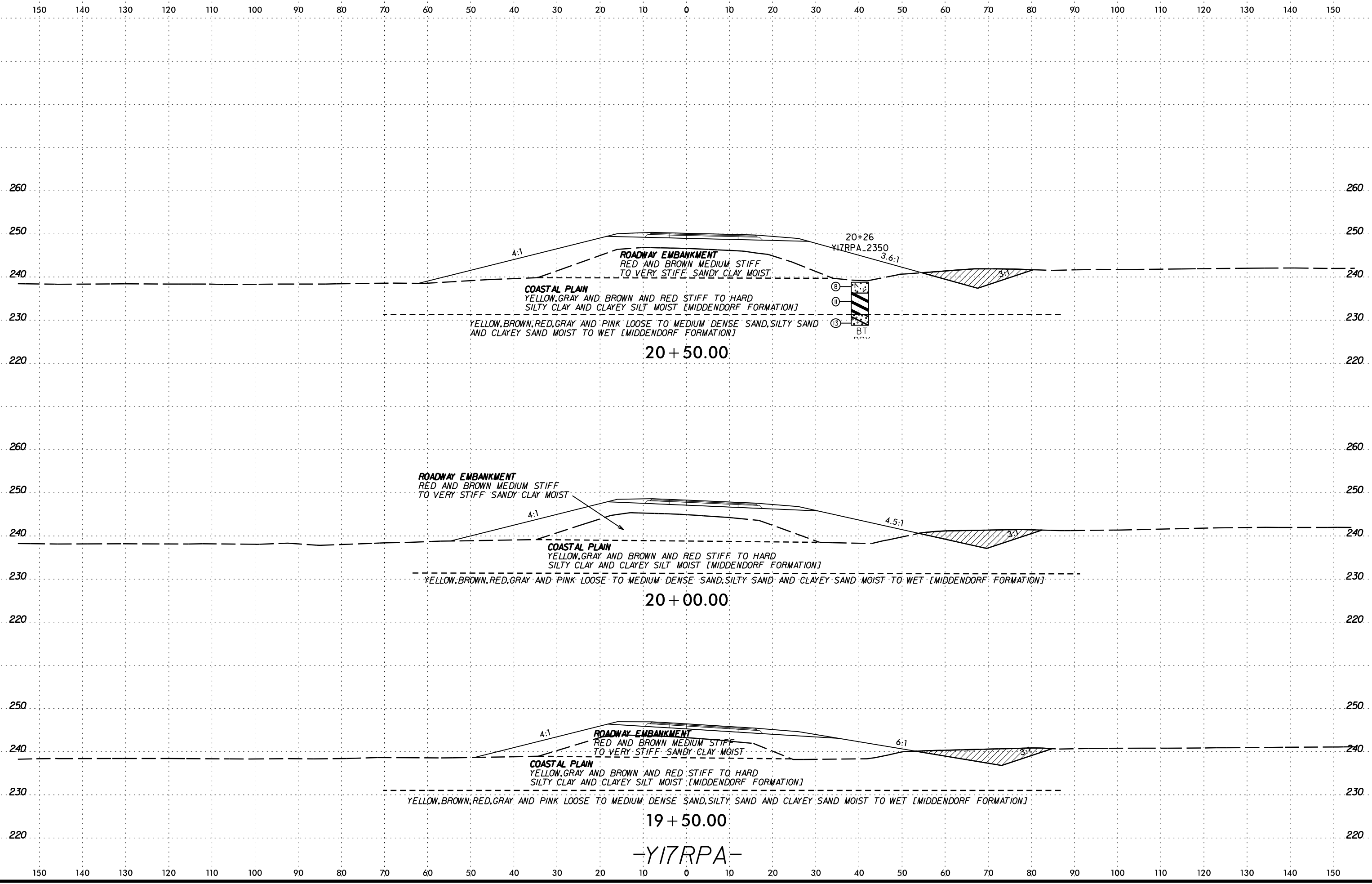
COASTAL PLAIN
 YELLOW, GRAY AND BROWN AND RED STIFF TO
 HARD SILTY CLAY AND CLAYEY SILT MOIST

YELLOW, BROWN, RED, GRAY AND PINK LOOSE TO MEDIUM DENSE SAND, SILTY SAND AND CLAYEY SAND MOIST TO WET.

16+64.00
 -Y17RPA-

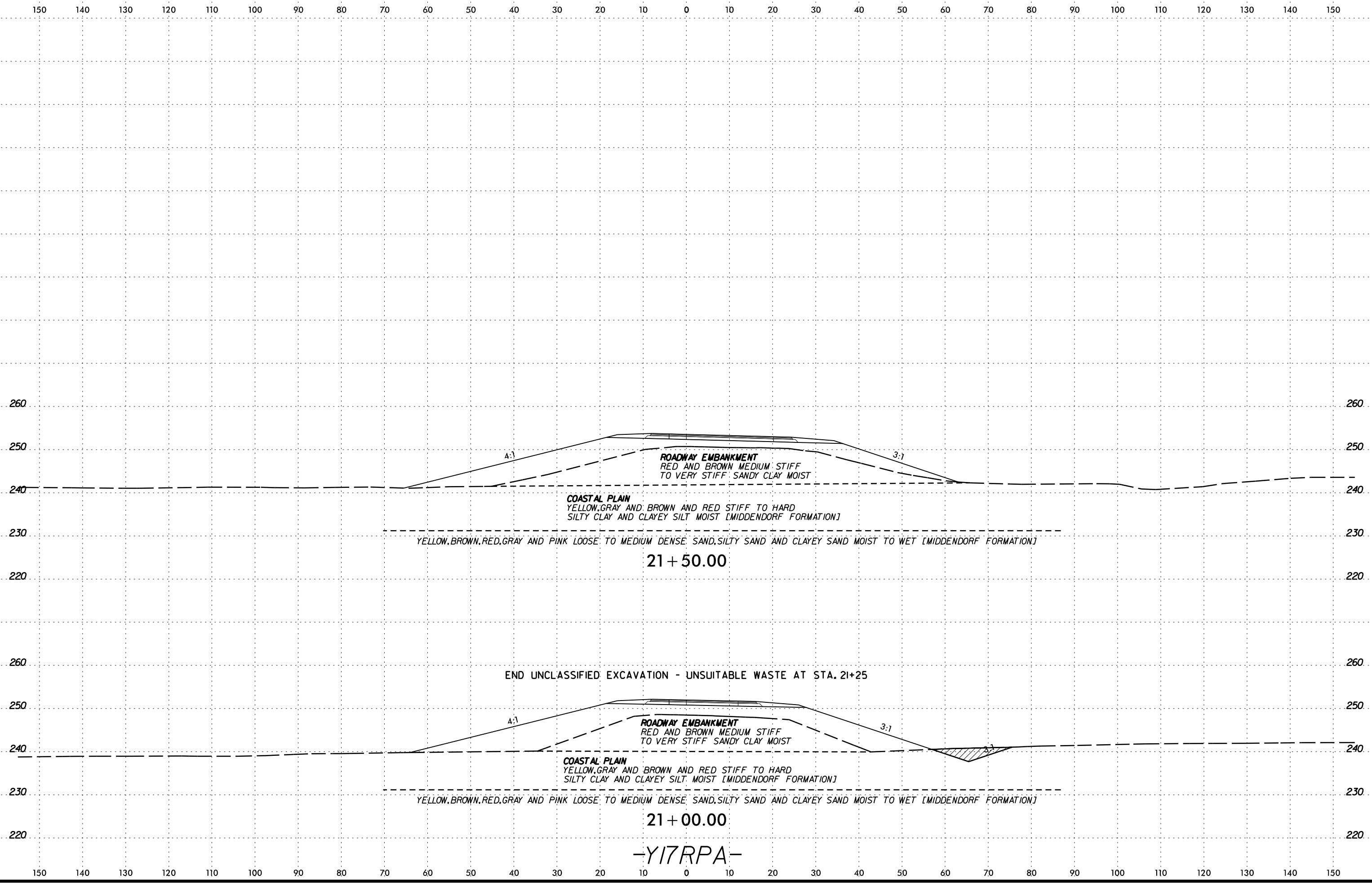


SYTIME
CON
JUL
RRAVE



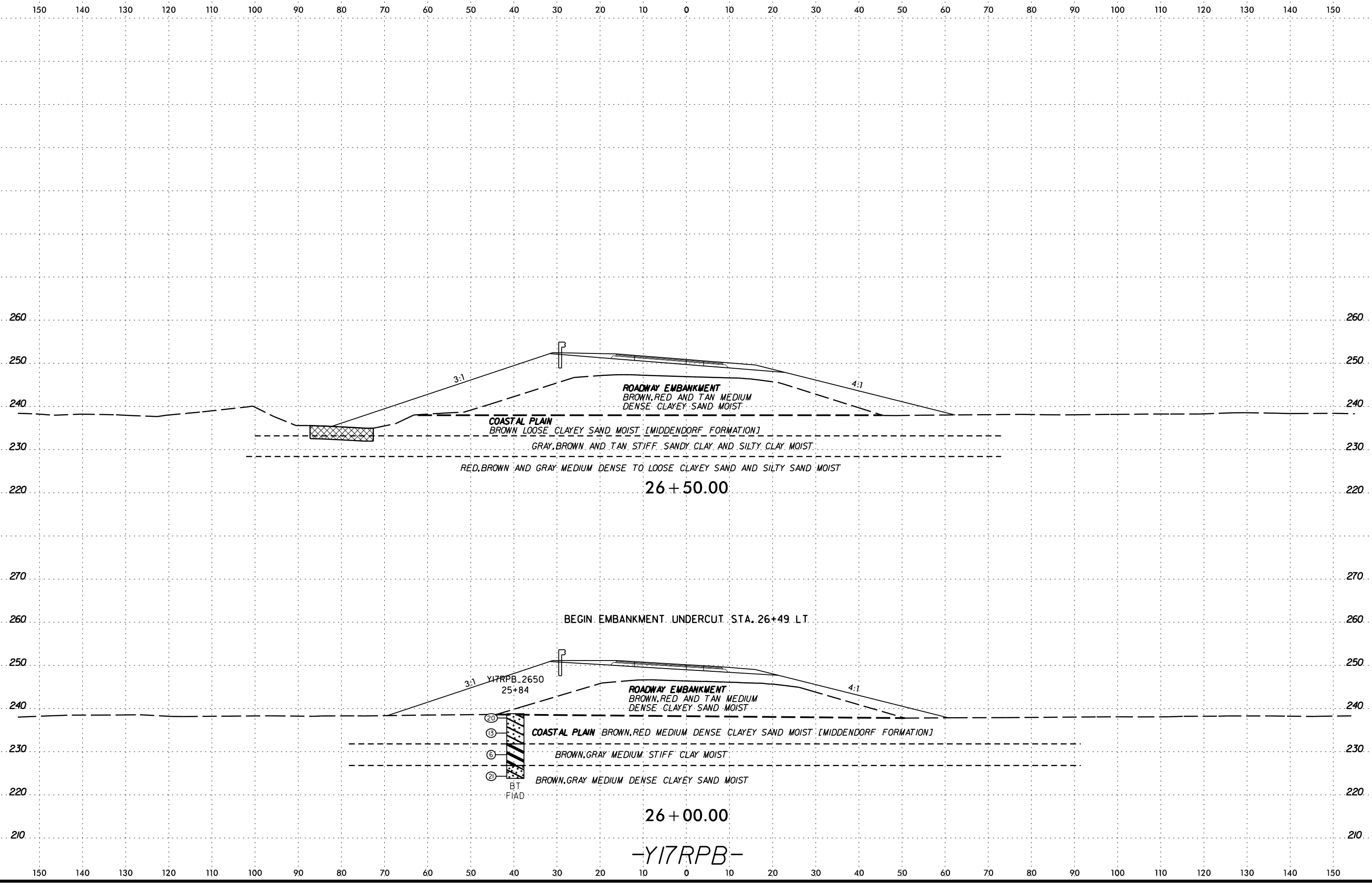
SECTION ON
JULY 1991

6/23/16



SYTIME
CON
JUL
ARRIVE

6/23/16



SYTIME
CON
ARRIVE
JULY

26 + 50.00

26 + 00.00

-Y17RPB-

BEGIN EMBANKMENT UNDERCUT STA. 26+49 LT.

COASTAL PLAIN BROWN LOOSE CLAYEY SAND MOIST [MIDDENDORF FORMATION]

GRAY, BROWN, AND TAN STIFF SANDY CLAY AND SILTY CLAY MOIST

RED, BROWN AND GRAY MEDIUM DENSE TO LOOSE CLAYEY SAND AND SILTY SAND MOIST

COASTAL PLAIN BROWN, RED MEDIUM DENSE CLAYEY SAND MOIST [MIDDENDORF FORMATION]

BROWN, GRAY MEDIUM STIFF CLAY MOIST

BROWN, GRAY MEDIUM DENSE CLAYEY SAND MOIST

3:1 Y17RPB_2650 25+84

20
13
6
21
BT
FIAD

ROADWAY EMBANKMENT
BROWN, RED AND TAN MEDIUM
DENSE CLAYEY SAND MOIST

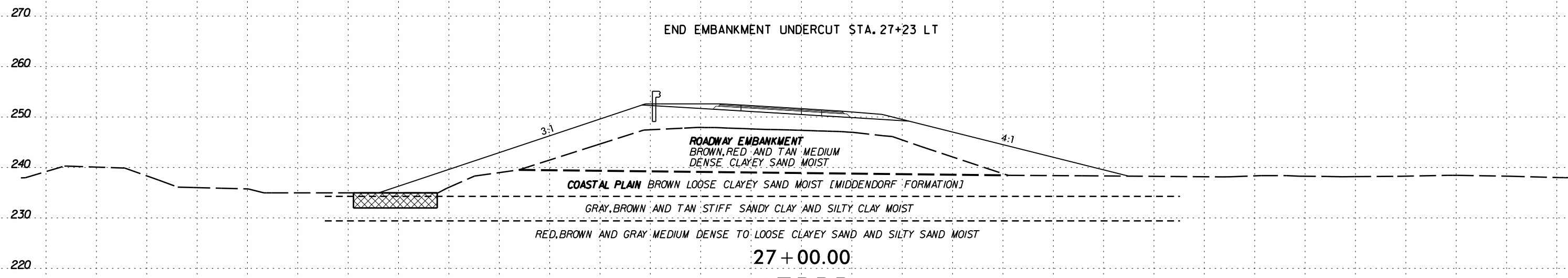
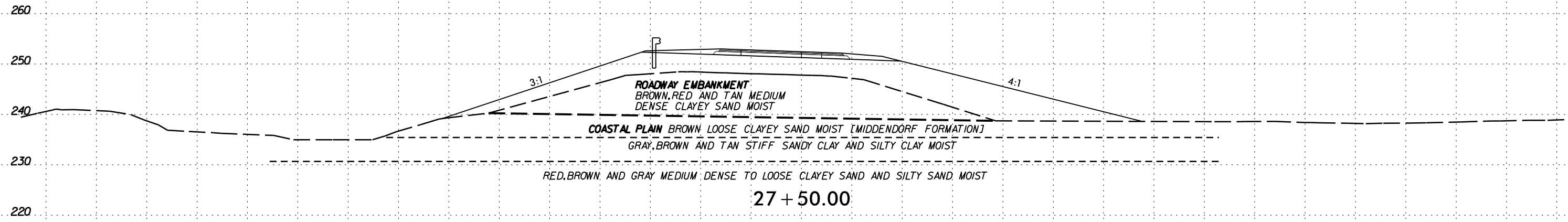
ROADWAY EMBANKMENT
BROWN, RED AND TAN MEDIUM
DENSE CLAYEY SAND MOIST

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
I-5986B	129

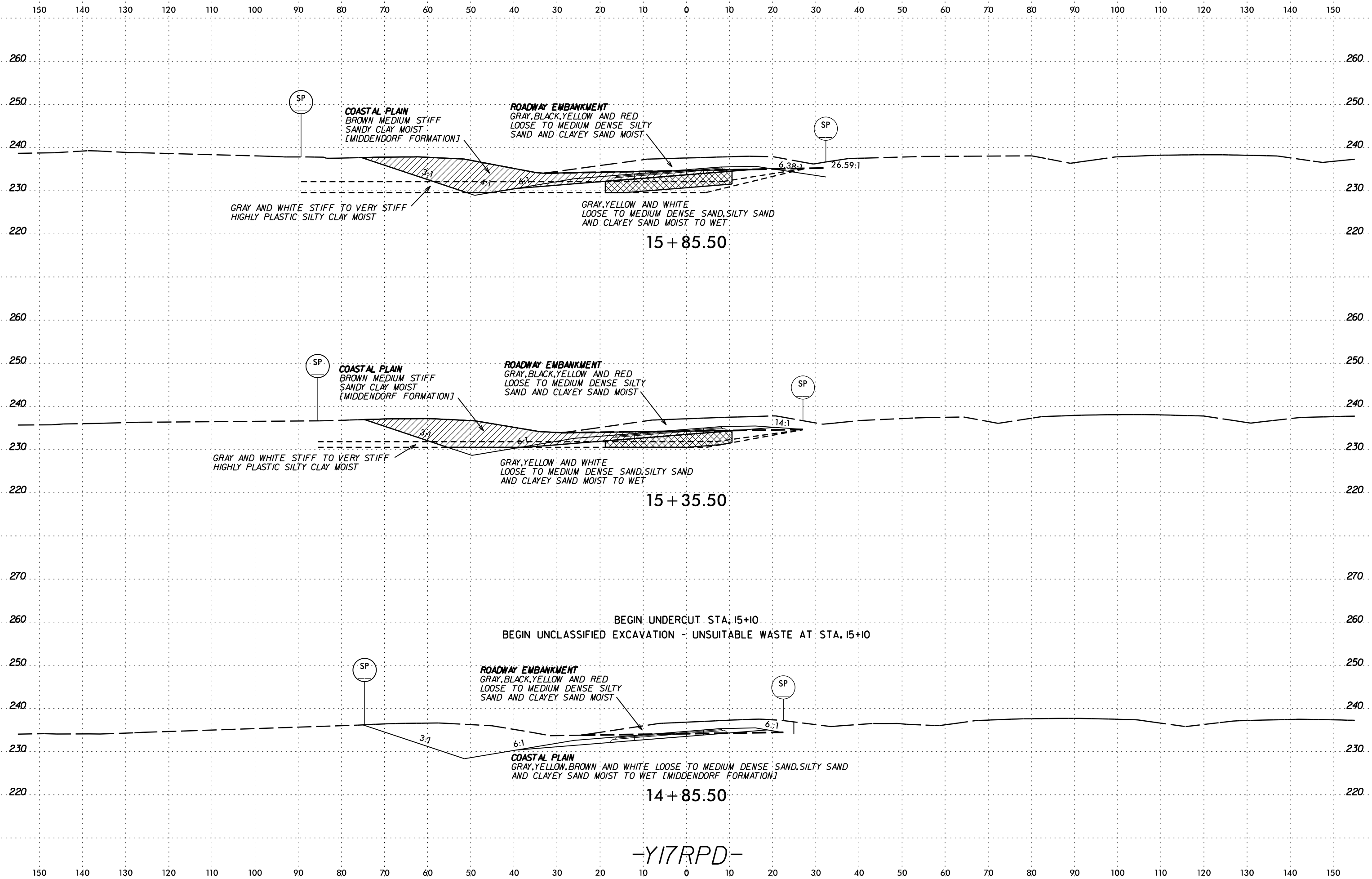
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y17RPB-

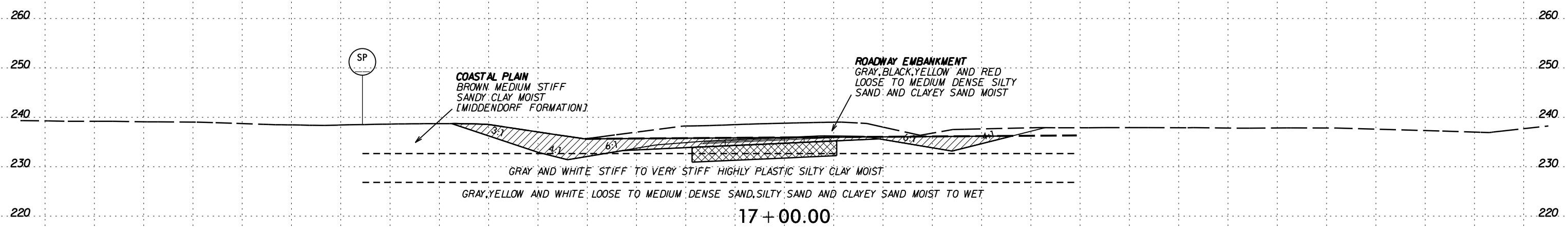
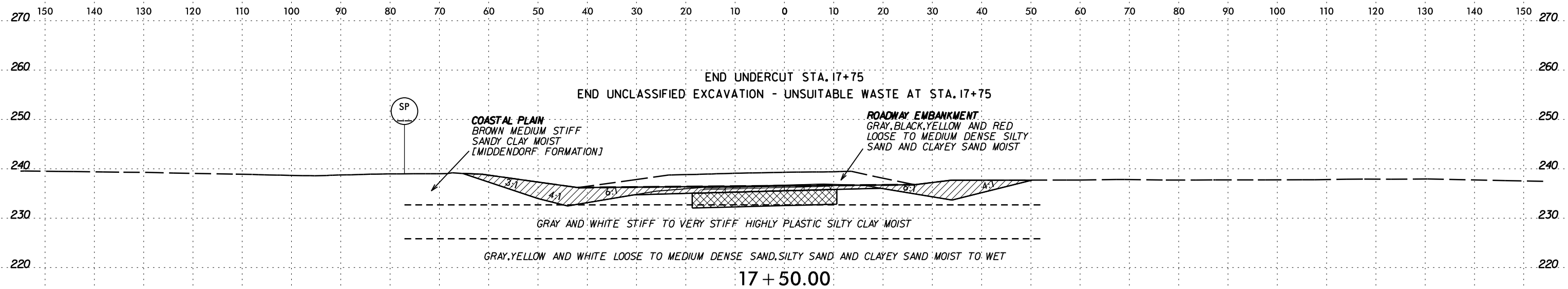
SYTIME
CON
LE
JUL
RY
NAME

6/23/16



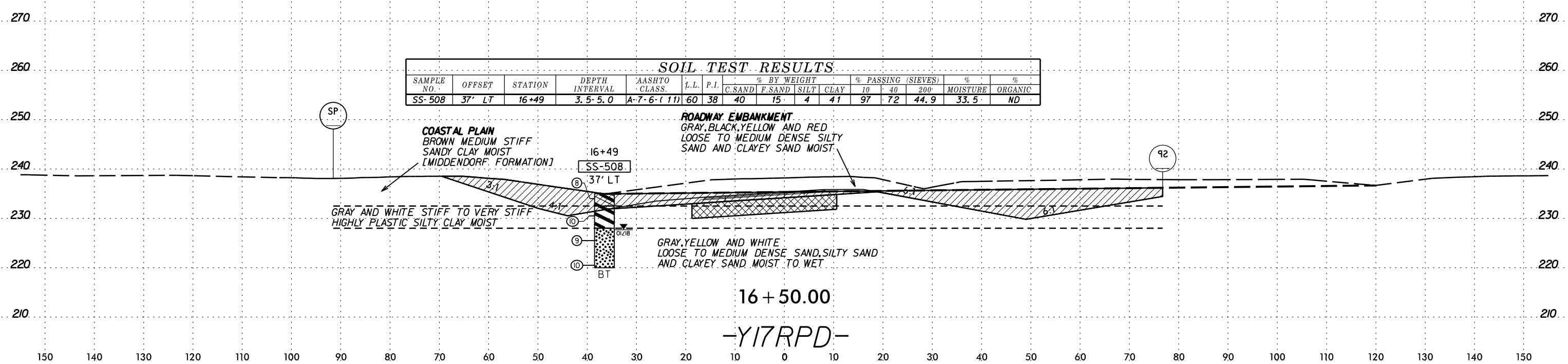
-Y17RPD-

SYTIME
CON
JUL
ARRIVE



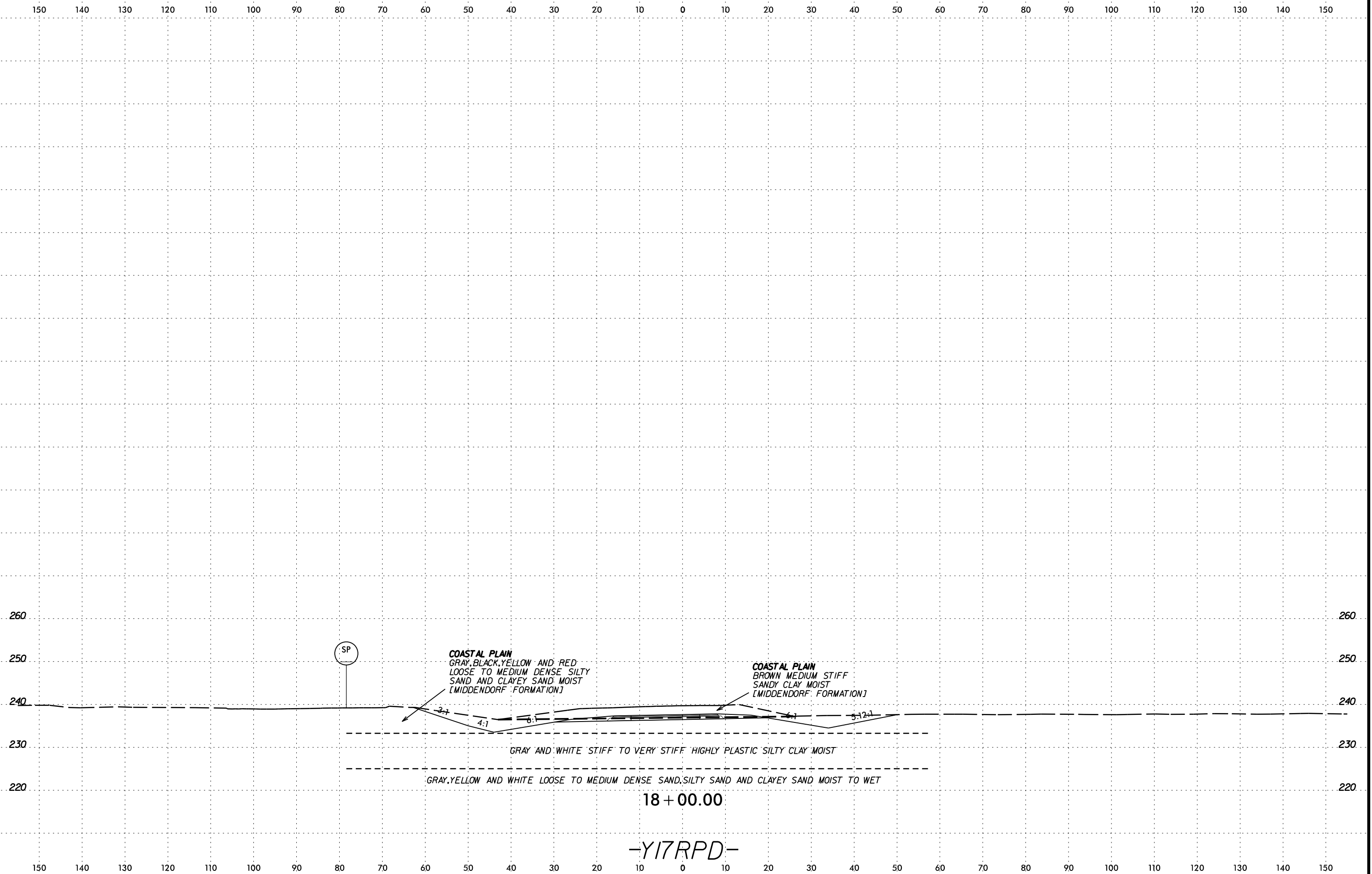
SOIL TEST RESULTS

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-508	37' LT	16+49	3.5-5.0	A-7-6 (11)	60	38	40	15	4	41	97	72	44.9	33.5	ND

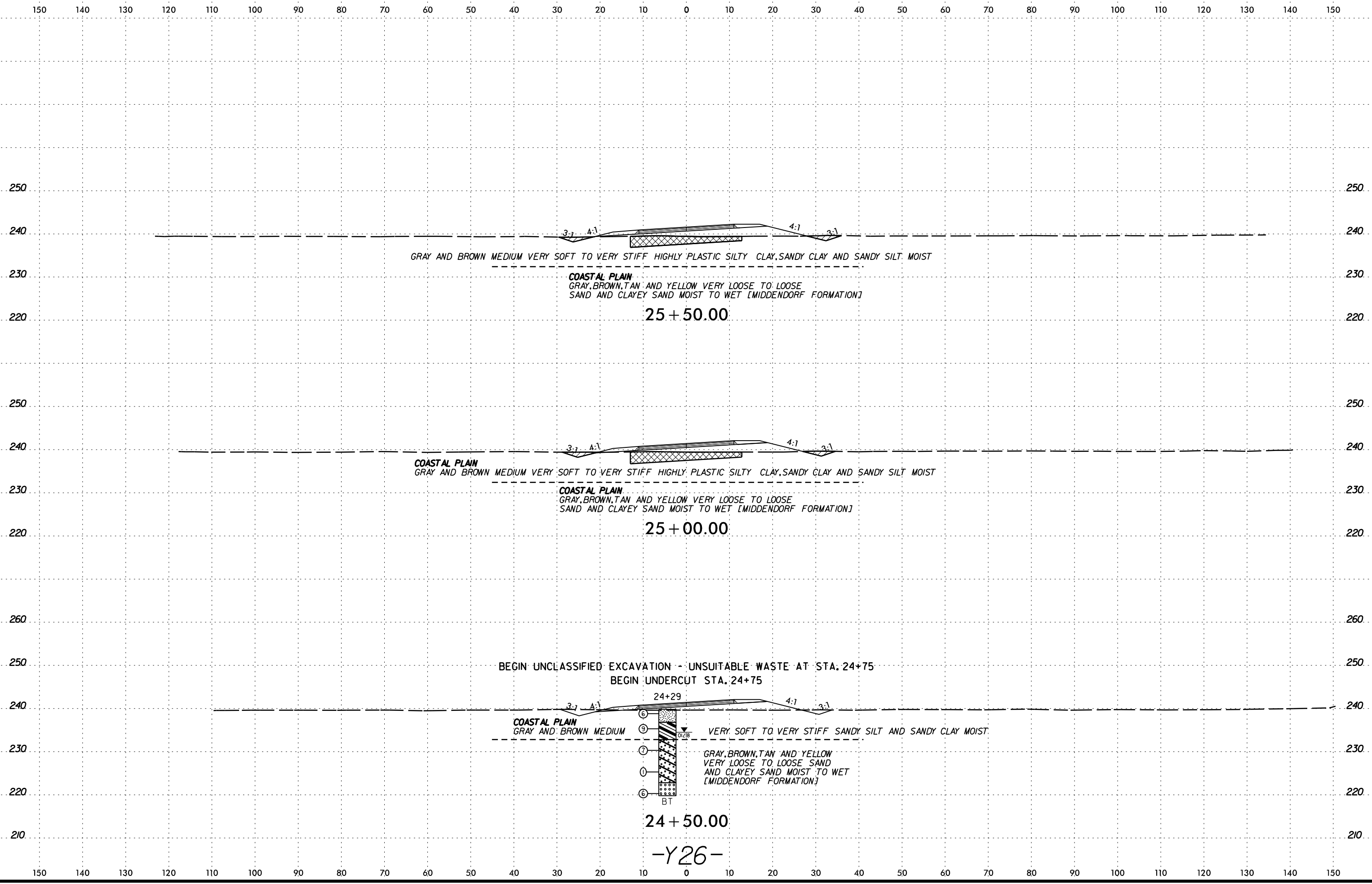


SCHEMATIC CROSS SECTION

6/23/16
SOUTH
MIDDLE
RIVER
BRIDGE



6/23/16



SYTIME
CON
ARRIVE

25 + 50.00
25 + 00.00
24 + 50.00
-Y26-



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

250 250

240 240

230 230

220 220

270 270

260 260

250 250

240 240

230 230

220 220

210 210

250 250

240 240

230 230

220 220

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

COASTAL PLAIN
GRAY AND BROWN MEDIUM VERY SOFT TO VERY STIFF HIGHLY PLASTIC SILTY CLAY, SANDY CLAY AND SANDY SILT MOIST

COASTAL PLAIN
GRAY, BROWN, TAN AND YELLOW VERY LOOSE TO LOOSE SAND AND CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

27 + 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-536	15' LT	26+29	3.5-5.0	A-7-6-(10)	54	34	39	17	6	38	97	79	44.6	20.5	ND

26+29

SS-536

15' LT

COASTAL PLAIN
GRAY AND BROWN MEDIUM VERY SOFT TO VERY STIFF HIGHLY PLASTIC SILTY CLAY, SANDY CLAY AND SANDY SILT MOIST

COASTAL PLAIN
GRAY, BROWN, TAN AND YELLOW VERY LOOSE TO LOOSE SAND AND CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

26 + 50.00

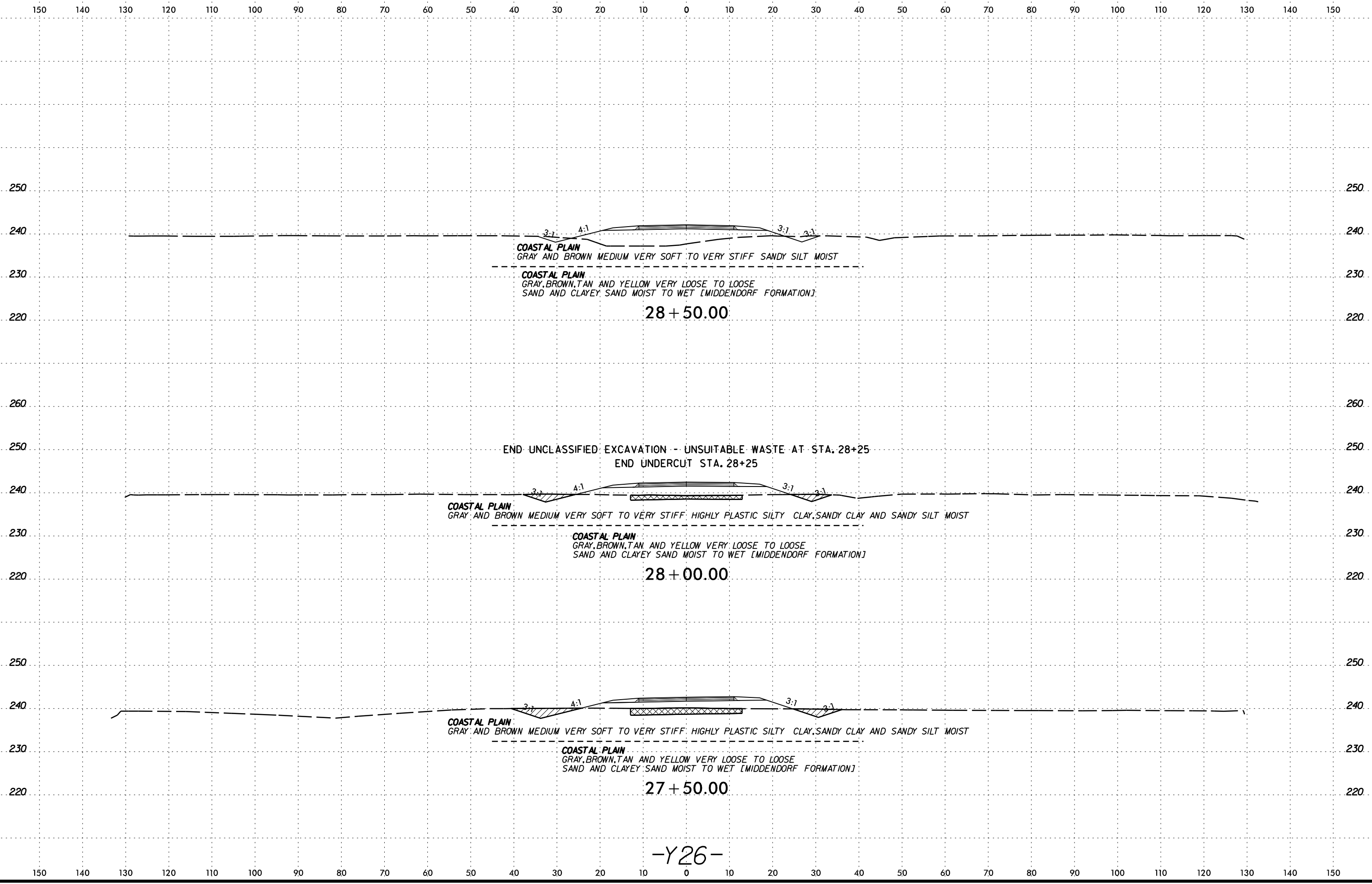
COASTAL PLAIN
GRAY AND BROWN MEDIUM VERY SOFT TO VERY STIFF HIGHLY PLASTIC SILTY CLAY, SANDY CLAY AND SANDY SILT MOIST

COASTAL PLAIN
GRAY, BROWN, TAN AND YELLOW VERY LOOSE TO LOOSE SAND AND CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

26 + 00.00

-Y26-

6/23/16



COASTAL PLAIN
 GRAY AND BROWN MEDIUM VERY SOFT TO VERY STIFF SANDY SILT MOIST

COASTAL PLAIN
 GRAY, BROWN, TAN AND YELLOW VERY LOOSE TO LOOSE SAND AND CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

28 + 50.00

END UNCLASSIFIED EXCAVATION -- UNSUITABLE WASTE AT STA. 28+25
 END UNDERCUT STA. 28+25

COASTAL PLAIN
 GRAY AND BROWN MEDIUM VERY SOFT TO VERY STIFF HIGHLY PLASTIC SILTY CLAY, SANDY CLAY AND SANDY SILT MOIST

COASTAL PLAIN
 GRAY, BROWN, TAN AND YELLOW VERY LOOSE TO LOOSE SAND AND CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

28 + 00.00

COASTAL PLAIN
 GRAY AND BROWN MEDIUM VERY SOFT TO VERY STIFF HIGHLY PLASTIC SILTY CLAY, SANDY CLAY AND SANDY SILT MOIST

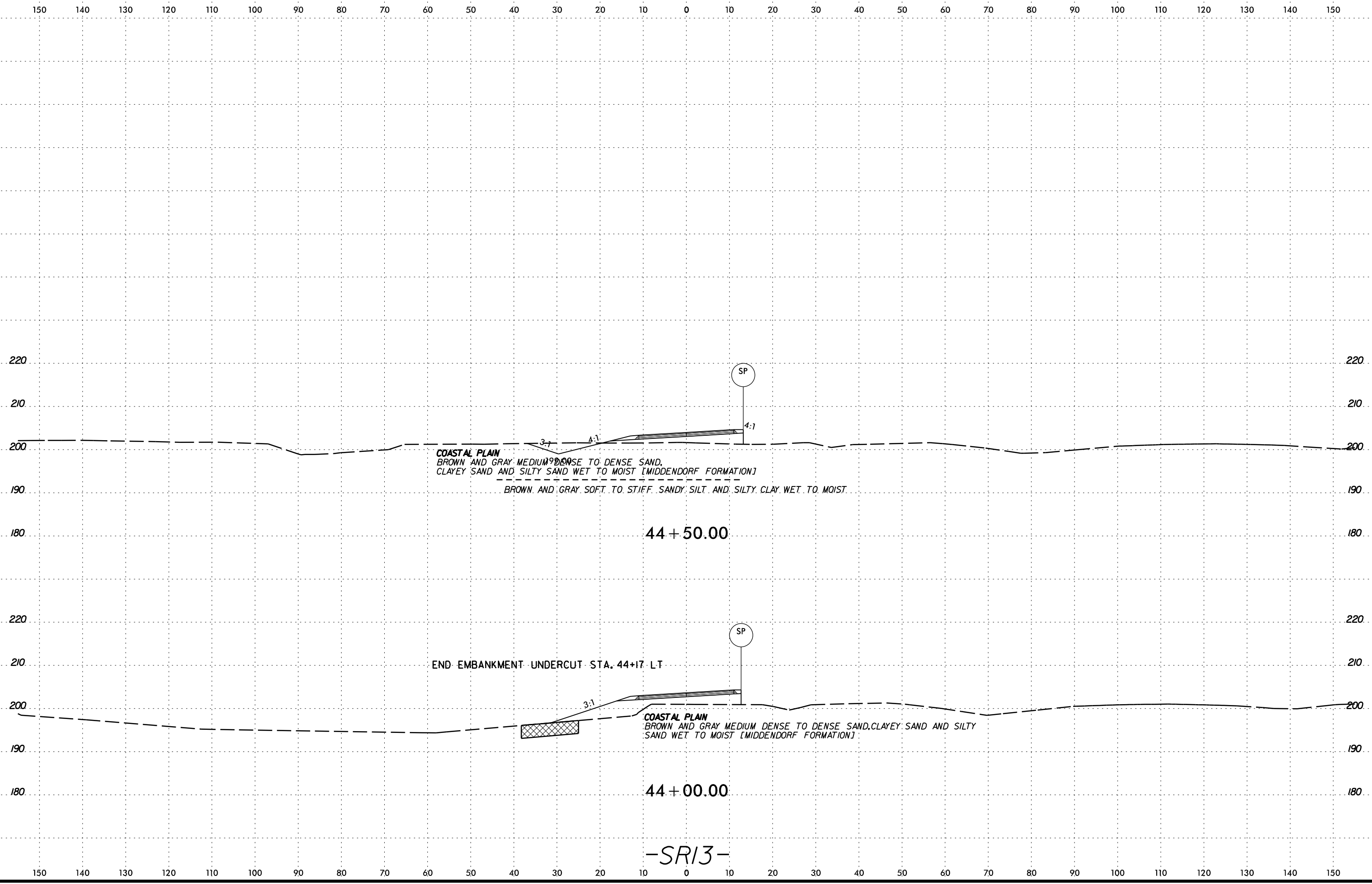
COASTAL PLAIN
 GRAY, BROWN, TAN AND YELLOW VERY LOOSE TO LOOSE SAND AND CLAYEY SAND MOIST TO WET [MIDDENDORF FORMATION]

27 + 50.00

-Y26-

SCHEMATIC CONSTRUCTION

6/23/16



COASTAL PLAIN
 BROWN AND GRAY MEDIUM DENSE TO DENSE SAND,
 CLAYEY SAND AND SILTY SAND WET TO MOIST [MIDDENDORF FORMATION]
 BROWN AND GRAY SOFT TO STIFF SANDY SILT AND SILTY CLAY WET TO MOIST

44 + 50.00

END EMBANKMENT UNDERCUT STA. 44+17 LT

44 + 00.00

-SR13-

DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 APPROVED BY: [illegible]

6/23/16



PROJ. REFERENCE NO. 1-5986B SHEET NO. 137

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

240 240

230 230

220 220

210 210

230 230

220 220

210 210

230 230

220 220

210 210

240 240

230 230

220 220

210 210

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

SHEAR LINE

COASTAL PLAIN
RED, TAN, BROWN AND GRAY SOFT TO VERY STIFF
SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

16 + 00.00

COASTAL PLAIN
RED, TAN, BROWN AND GRAY SOFT TO VERY STIFF
SANDY SILT, SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

15 + 50.00

COASTAL PLAIN
RED, TAN, BROWN AND GRAY SOFT TO VERY STIFF
SANDY SILT, SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

15 + 00.00

BEGIN UNDERCUT STA. 14+75

COASTAL PLAIN
RED, TAN, BROWN AND GRAY SOFT TO VERY STIFF
SANDY SILT, SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

14 + 50.00

-SR15-

SECTION CUTS TO BE MADE AT THE FOLLOWING STATIONS

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

240 240

230 230

220 220

210 210

240 240

230 230

220 220

210 210

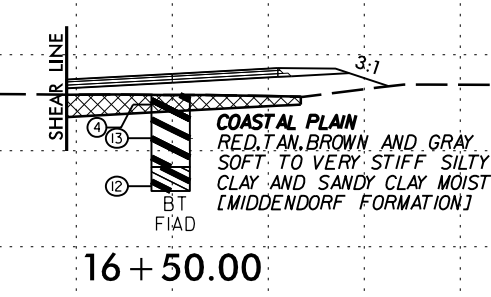
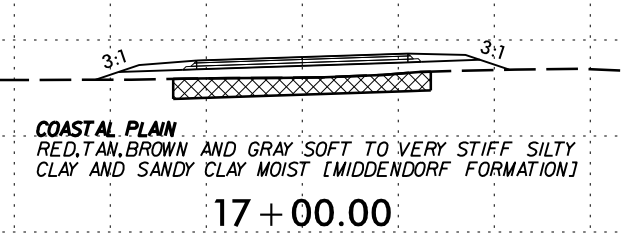
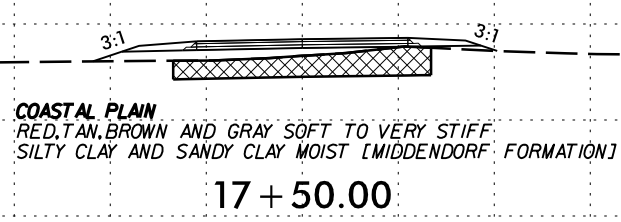
240 240

230 230

220 220

210 210

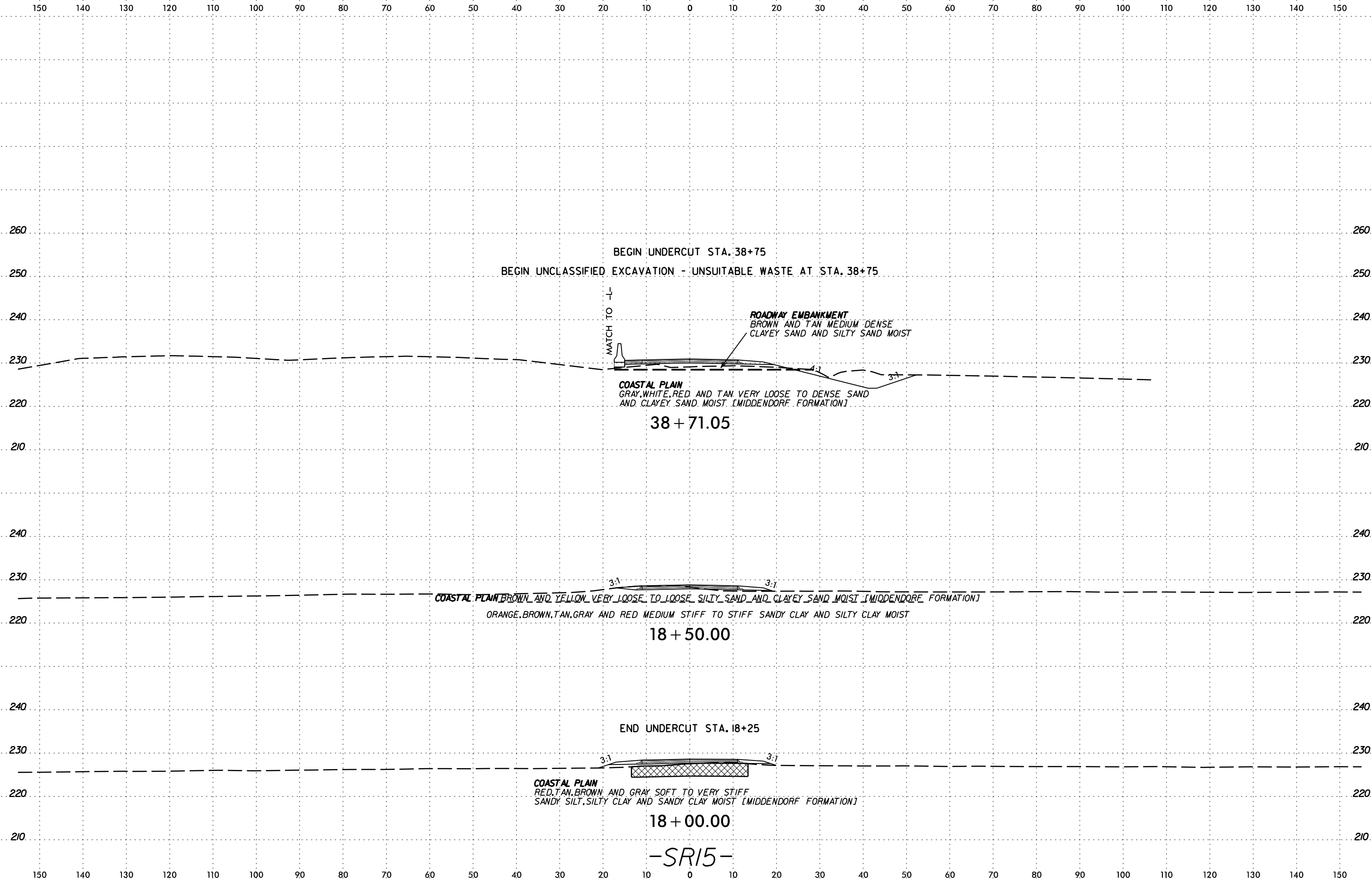
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-SR15-

SYTIME
CON
ARRIVE
JUL
ARRIVE

6/23/16



-SR15-

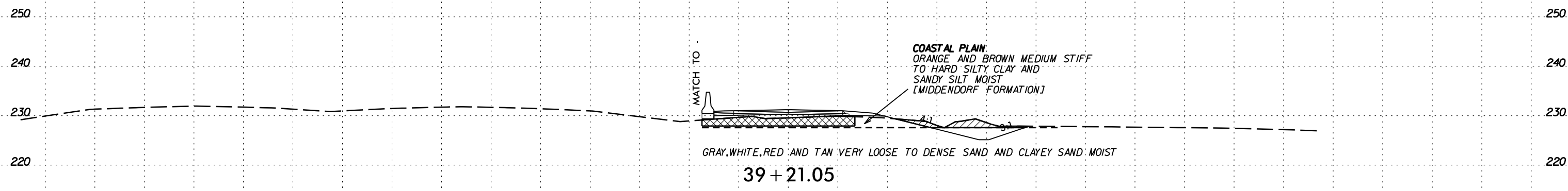
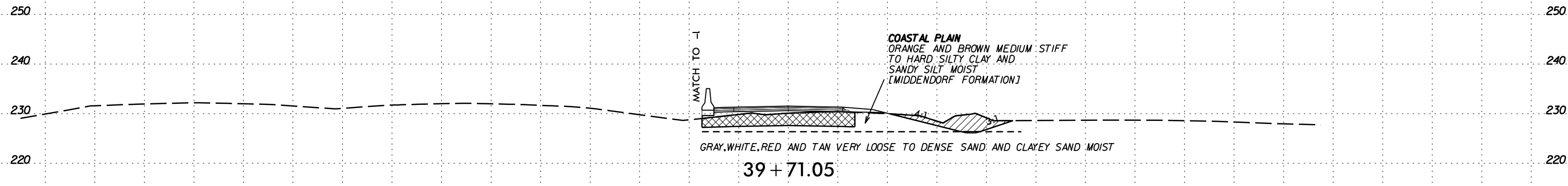
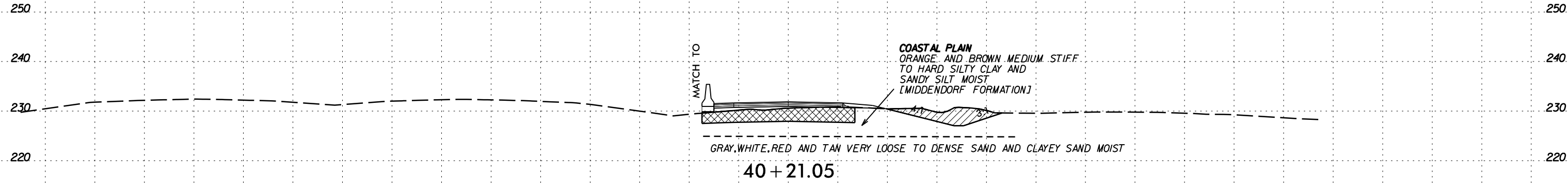
SECTION ON
SOUTH SIDE OF
SR15

6/23/16



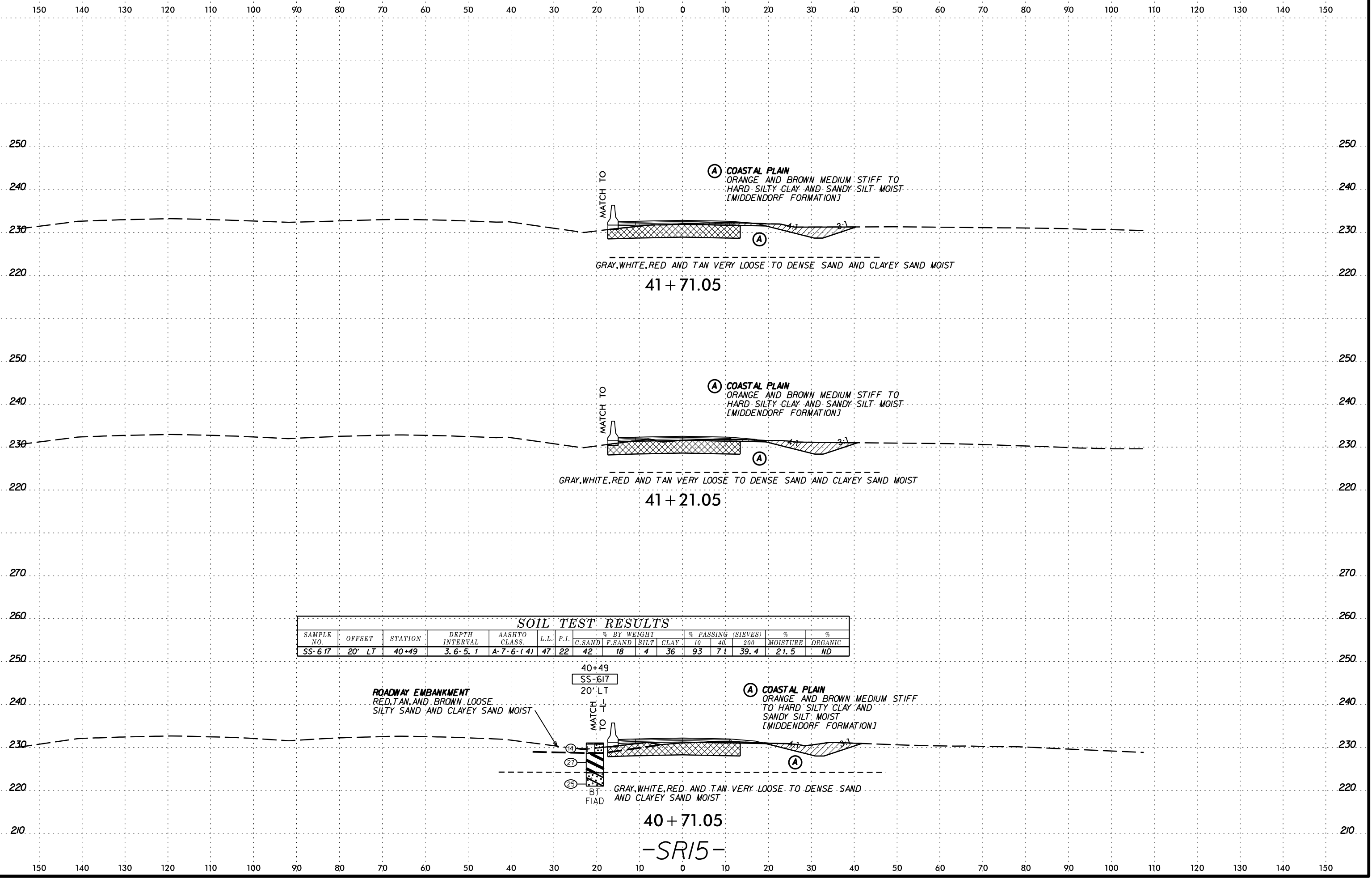
PROJ. REFERENCE NO.	SHEET NO.
I-5986B	140

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



-SR15-

SYTIME
CON
N
JUL
RY
AVE



41 + 71.05

41 + 21.05

40 + 71.05

-SR15-

SOIL TEST RESULTS

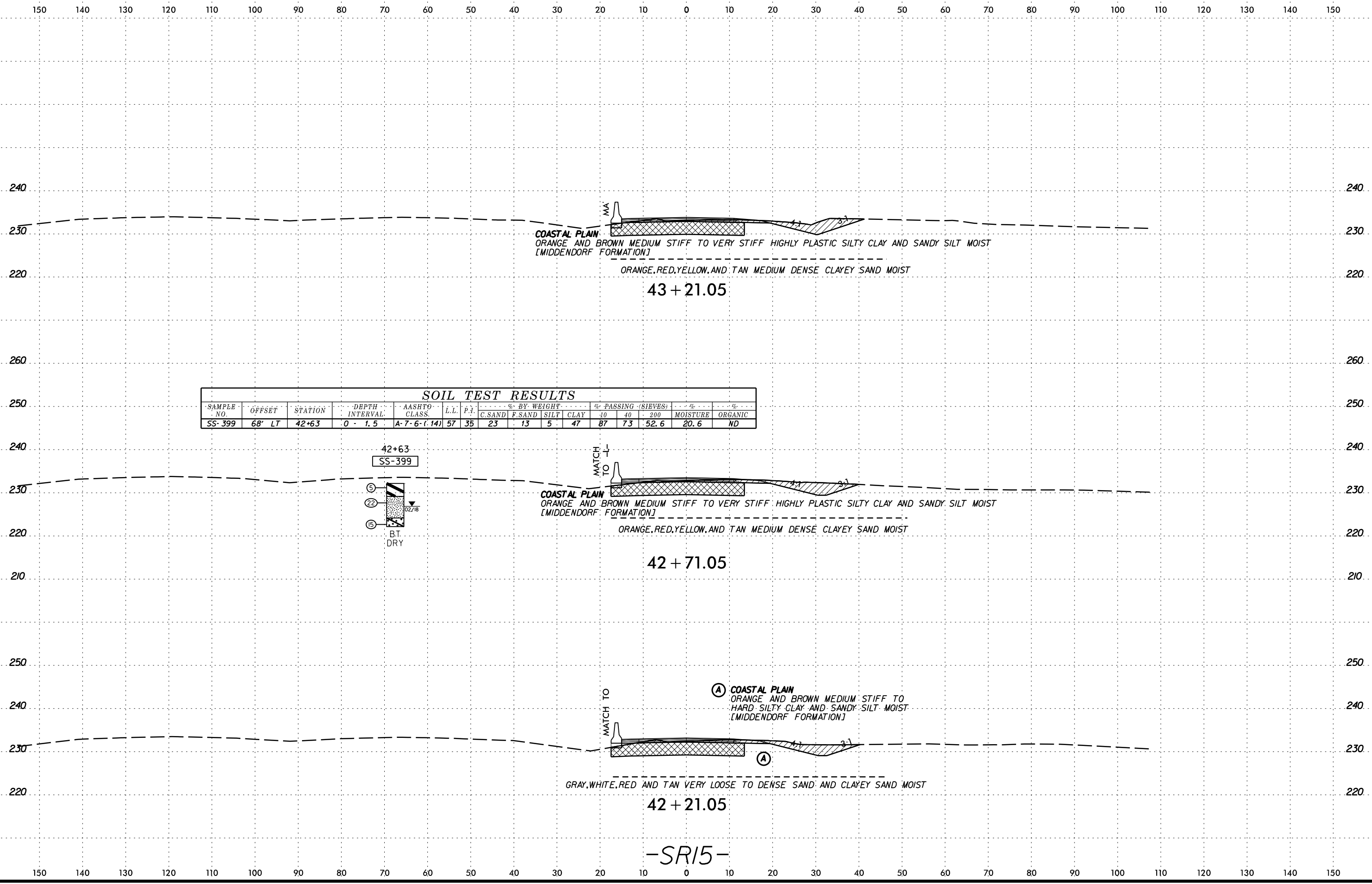
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C.SAND	F.SAND	SILT	CLAY	10	200			
SS-617	20' LT	40+49	3.6-5.1	A-7-6-(4)	47	22	42	18	4	36	93	71	39.4	21.5	ND

ROADWAY EMBANKMENT
 RED, TAN, AND BROWN LOOSE
 SILTY SAND AND CLAYEY SAND MOIST

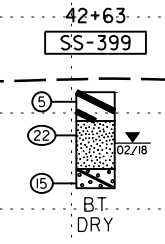
COASTAL PLAIN
 ORANGE AND BROWN MEDIUM STIFF
 TO HARD SILTY CLAY AND
 SANDY SILT MOIST
 [MIDDENDORF FORMATION]

GRAY, WHITE, RED AND TAN VERY LOOSE TO DENSE SAND AND CLAYEY SAND MOIST

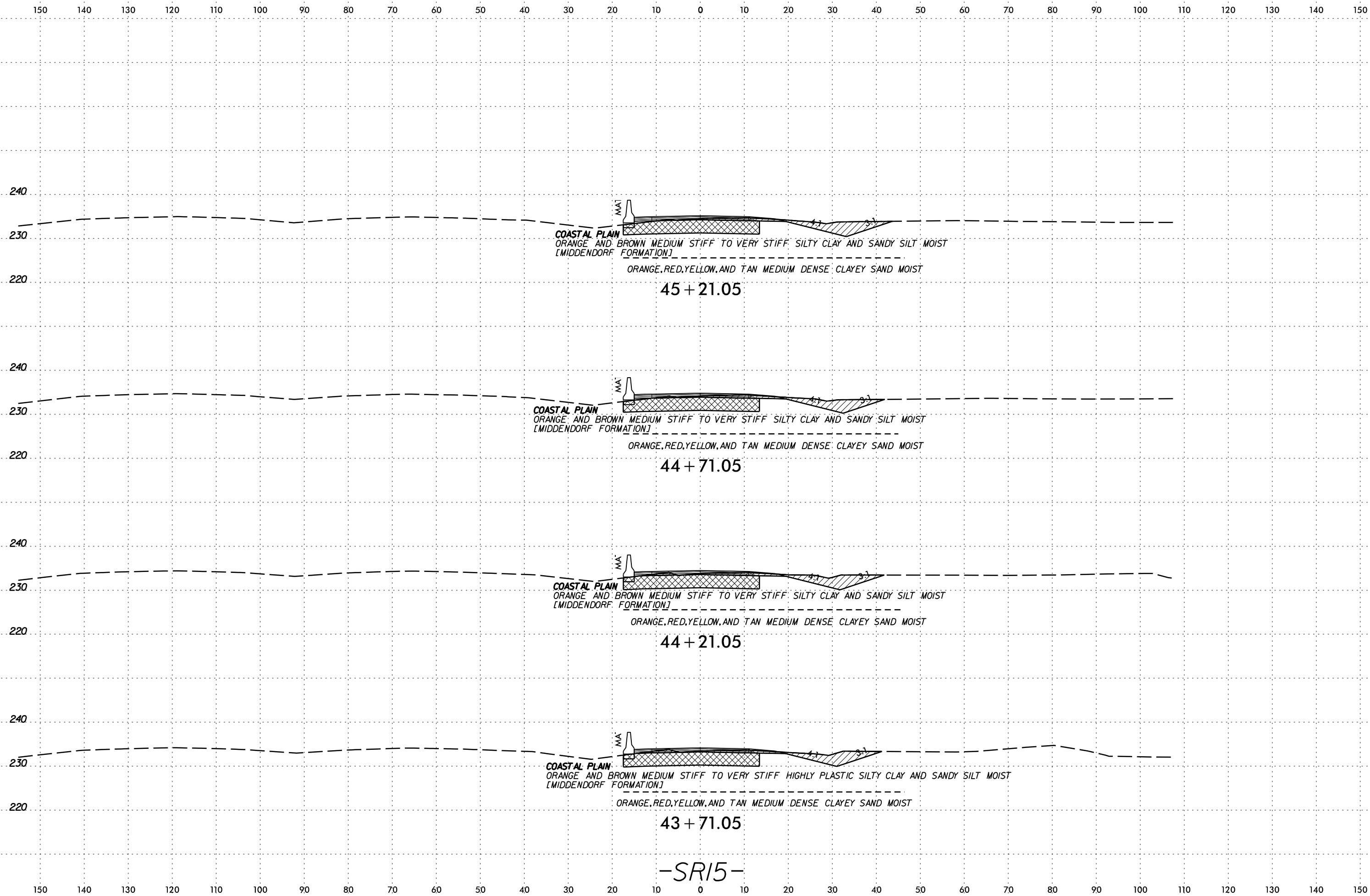
SCHEMATIC CROSS SECTION OF ROADWAY EMBANKMENT



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	#200			
SS-399	68' LT	42+63	0 - 1.5	A-7-6-(14)	57	35	23	13	5	47	87	73	52.6	20.6	ND

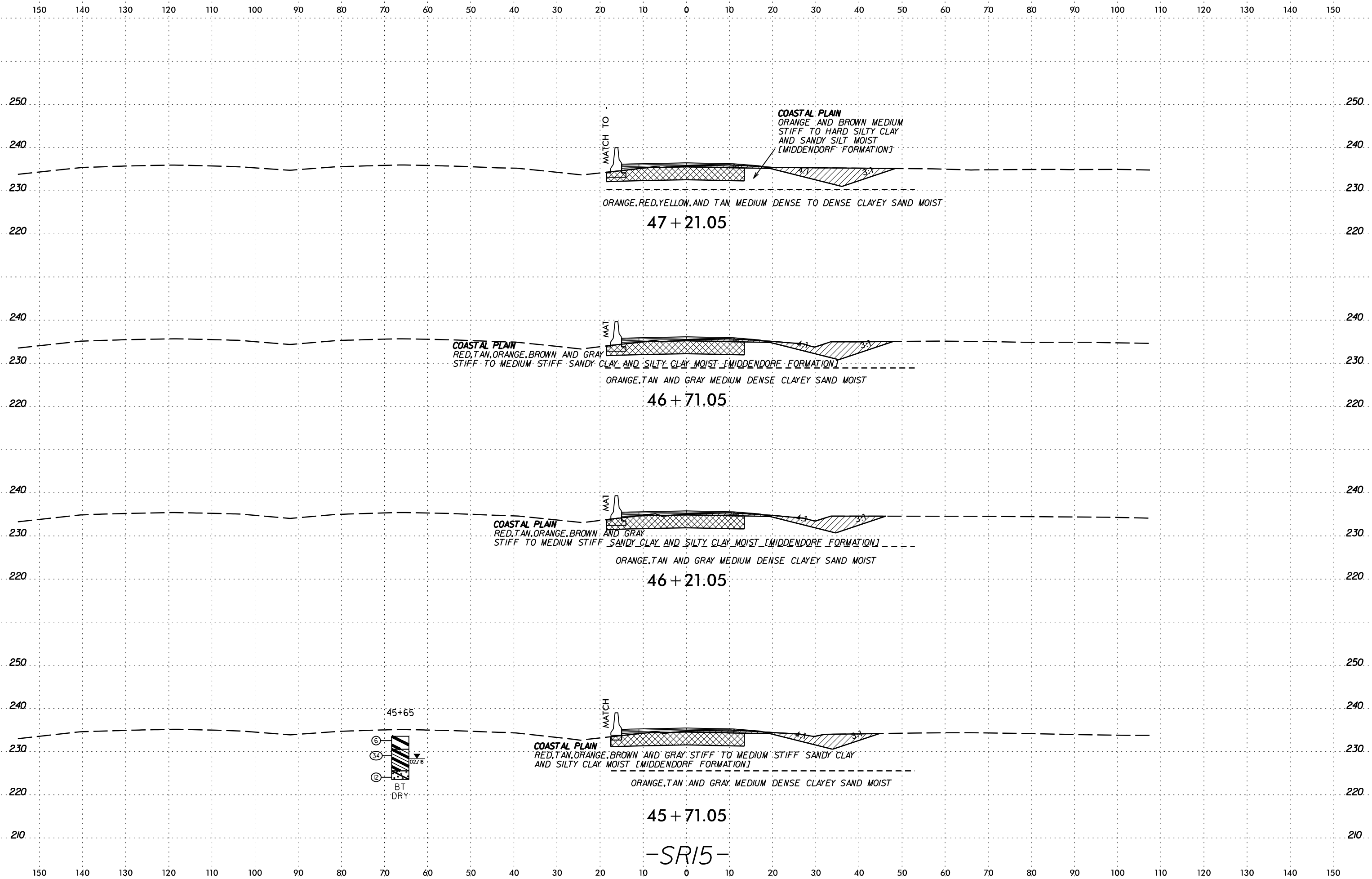


-SR15-



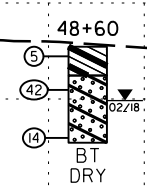
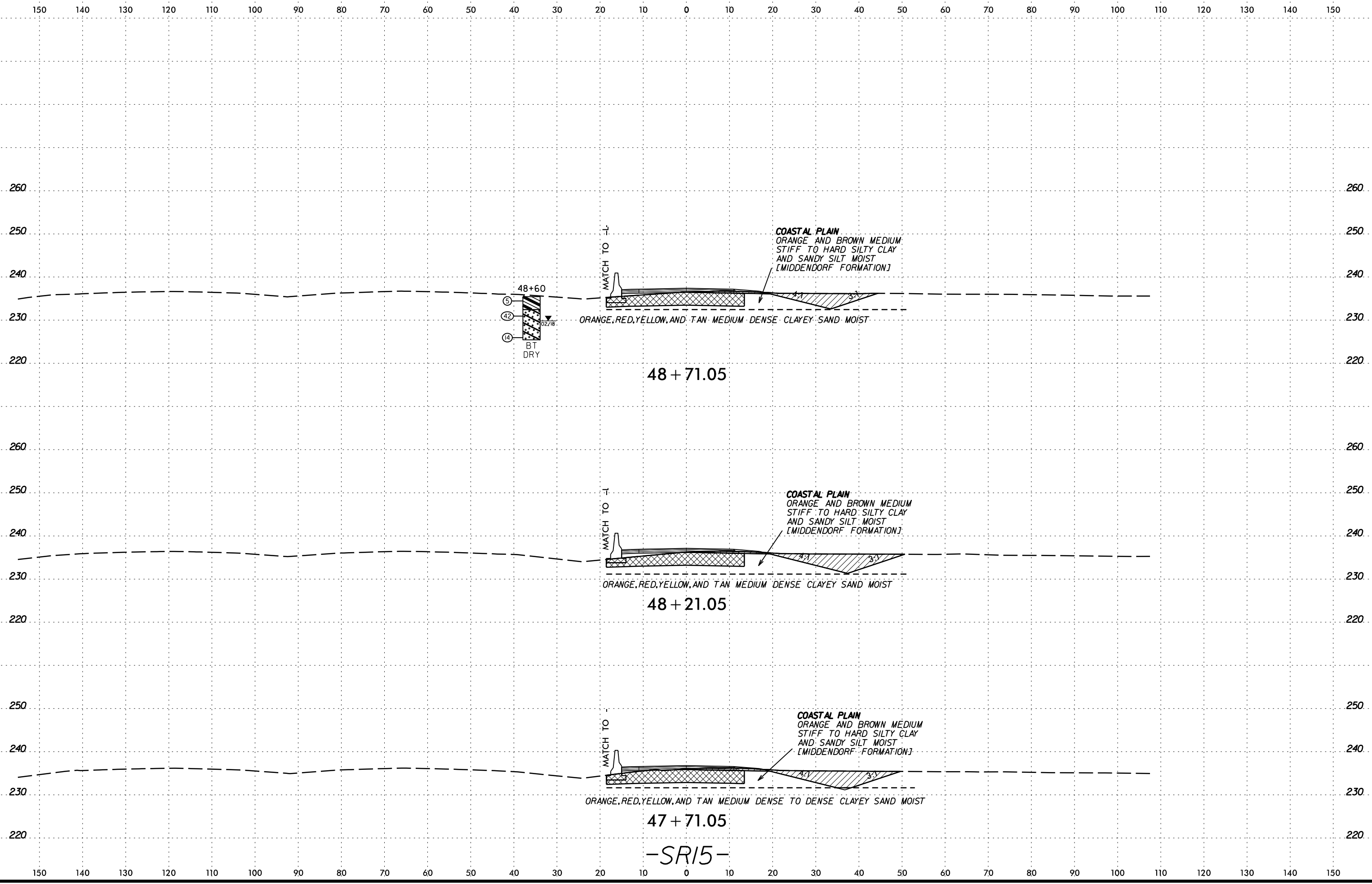
DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN

-SR15-



-SR15-

SCHEMATIC CROSS SECTION



48 + 71.05

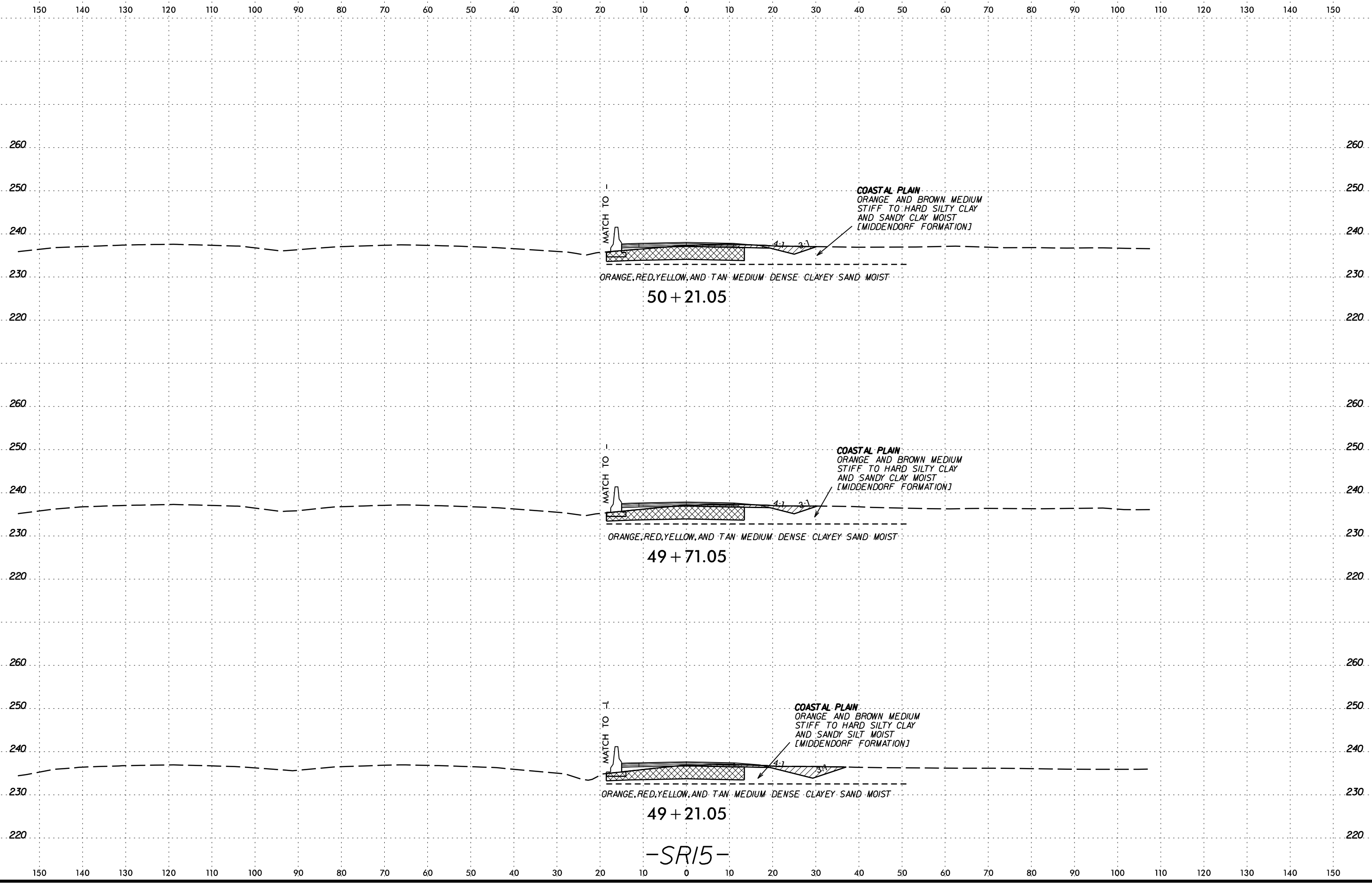
48 + 21.05

47 + 71.05

-SR15-

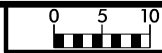
SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: [illegible]

6/23/16



-SR15-

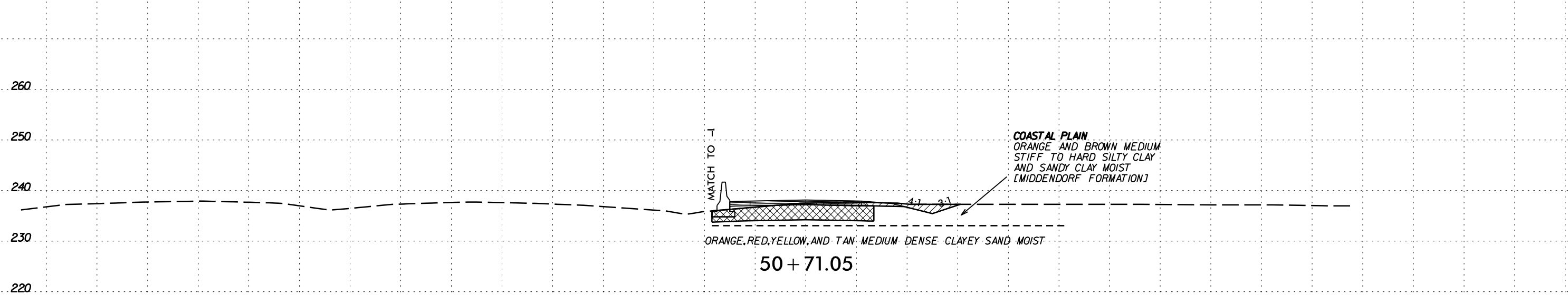
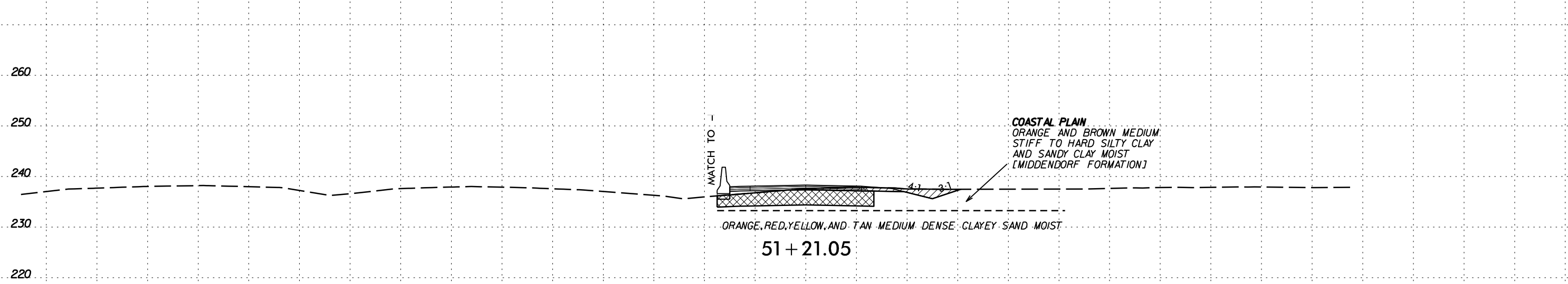
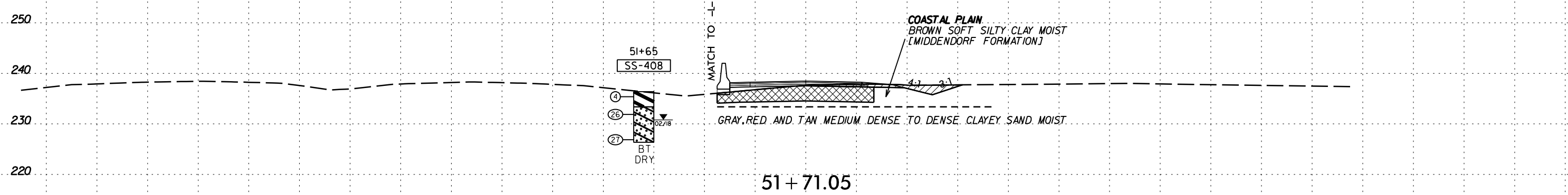
SYTIME
CON
ARRIVE



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

270 260 250 240 230 220 260 250 240 230 220 260 250 240 230 220 260 250 240 230 220 260 250 240 230 220

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-408	32' LT	51+65	0.0 - 1.5	A-7-6-(10)	46	20	23	13	6	53	95	82	60.2	27.4	ND

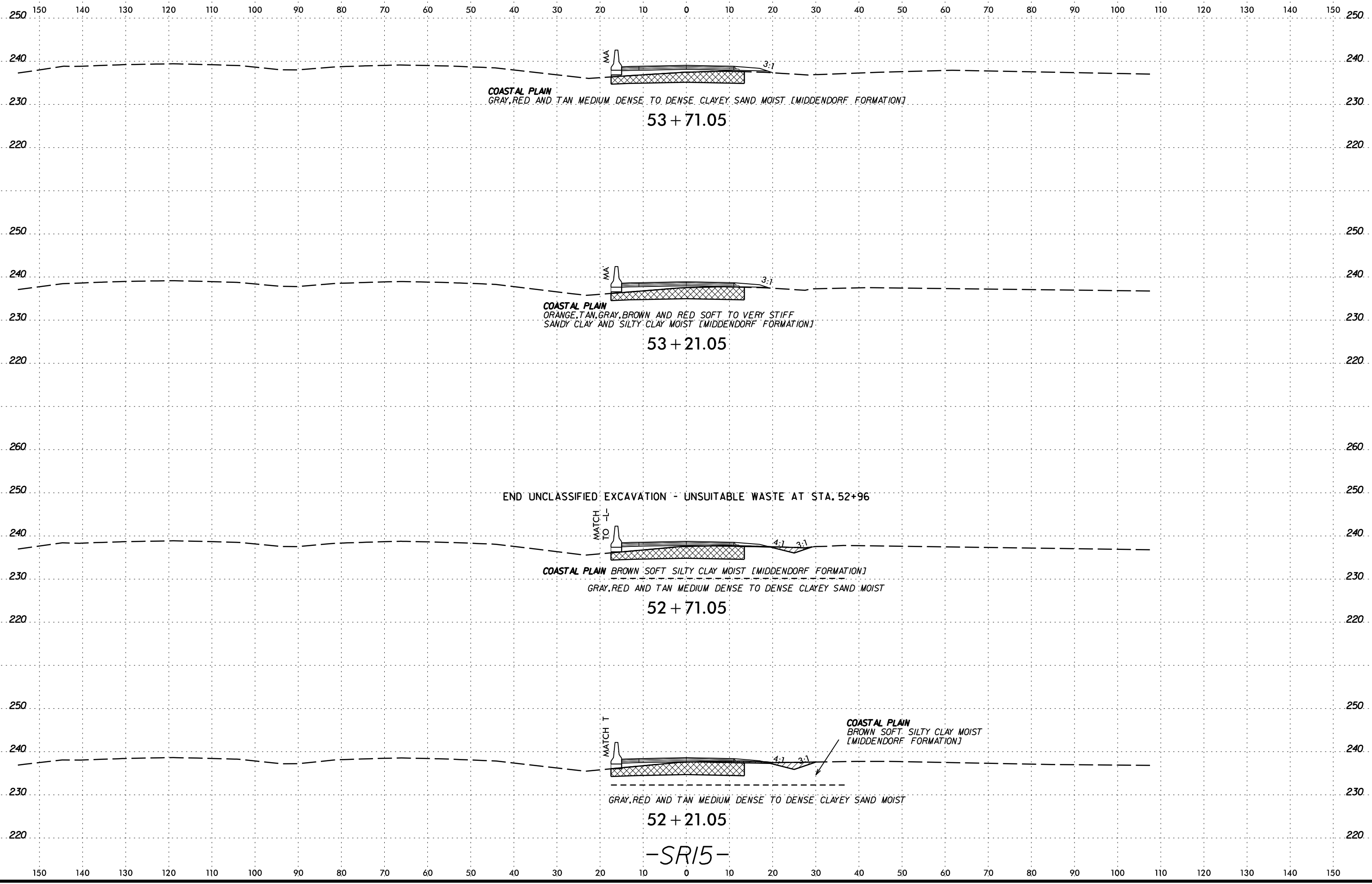


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

-SR15-

SYTIME CONSTRUCTION SERVICES

6/23/16



SCHEMATIC CROSS SECTION
ARRANGEMENT

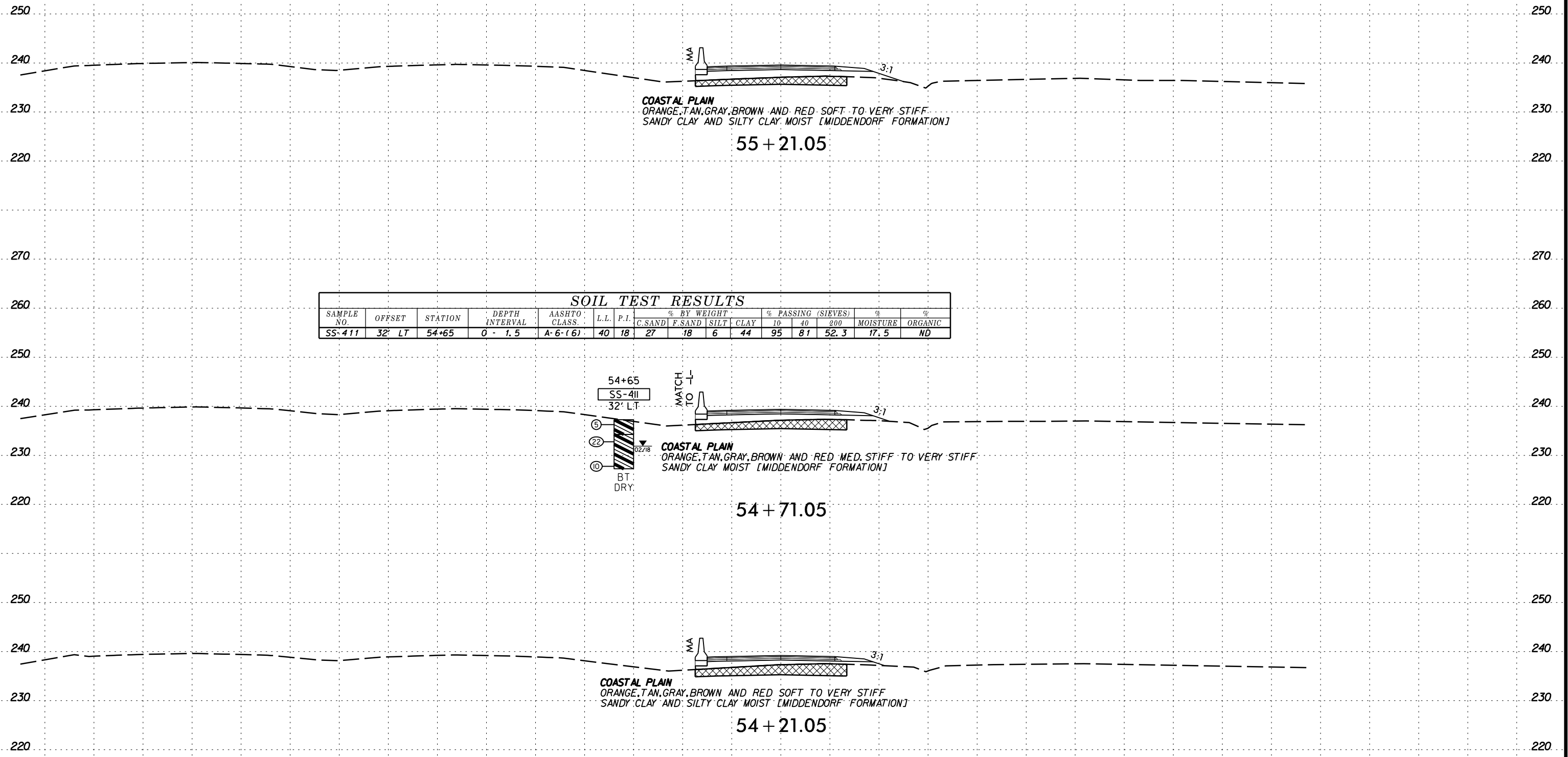
6/23/16



PROJ. REFERENCE NO. I-5986B

SHEET NO. 149

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



COASTAL PLAIN
ORANGE, TAN, GRAY, BROWN AND RED SOFT TO VERY STIFF
SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]

55 + 21.05

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-411	32' LT	54+65	0 - 1.5	A-6-(6)	40	18	27	18	6	44	95	81	52.3	17.5	ND

54+65
SS-411
32' LT
BT
DRY

COASTAL PLAIN
ORANGE, TAN, GRAY, BROWN AND RED MED. STIFF TO VERY STIFF
SANDY CLAY MOIST [MIDDENDORF FORMATION]

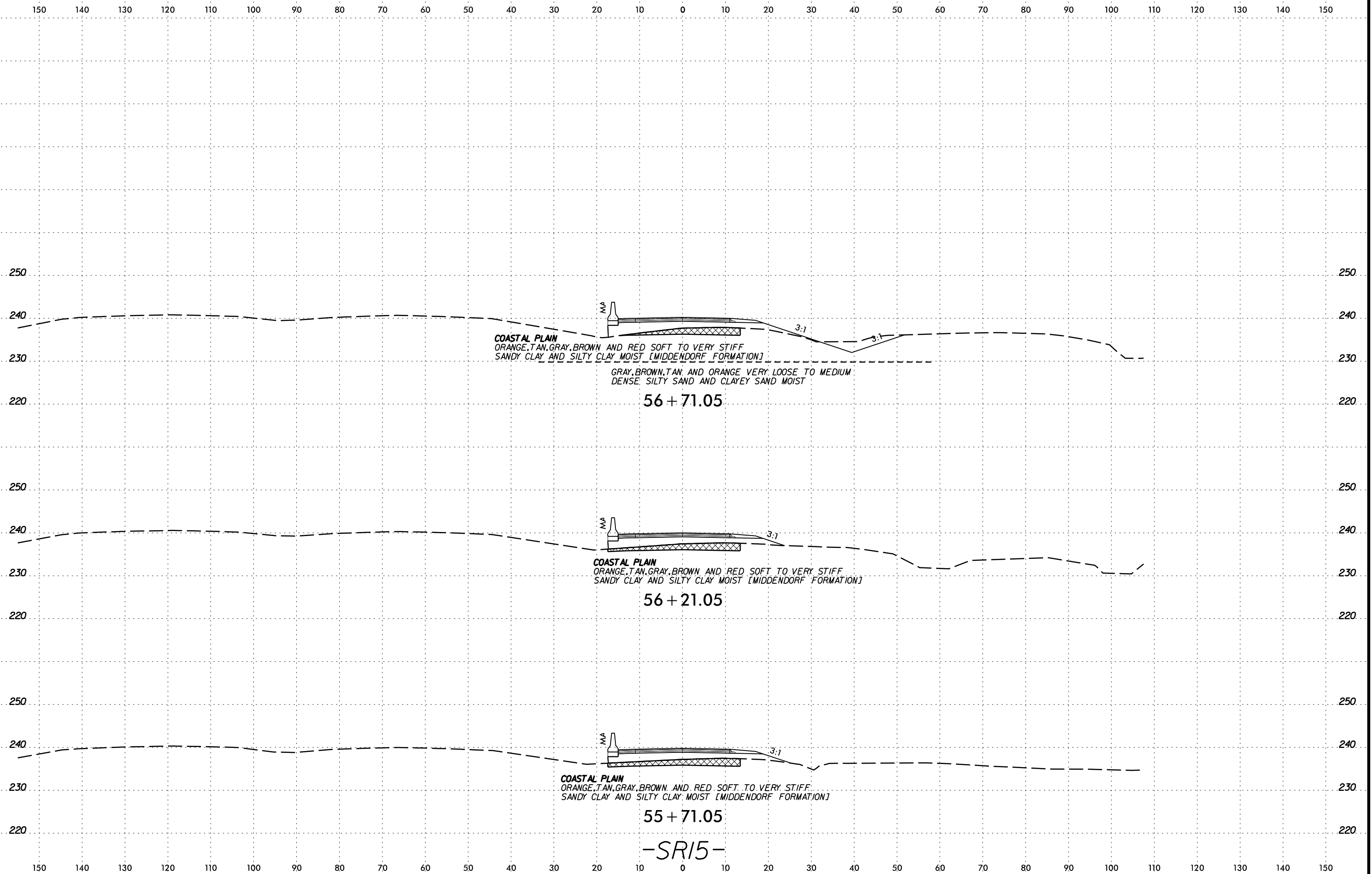
54 + 71.05

COASTAL PLAIN
ORANGE, TAN, GRAY, BROWN AND RED SOFT TO VERY STIFF
SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]

54 + 21.05

-SR15-

SCHEMATIC CONSTRUCTION
DATE: 6/23/16
BY: [illegible]



56 + 71.05

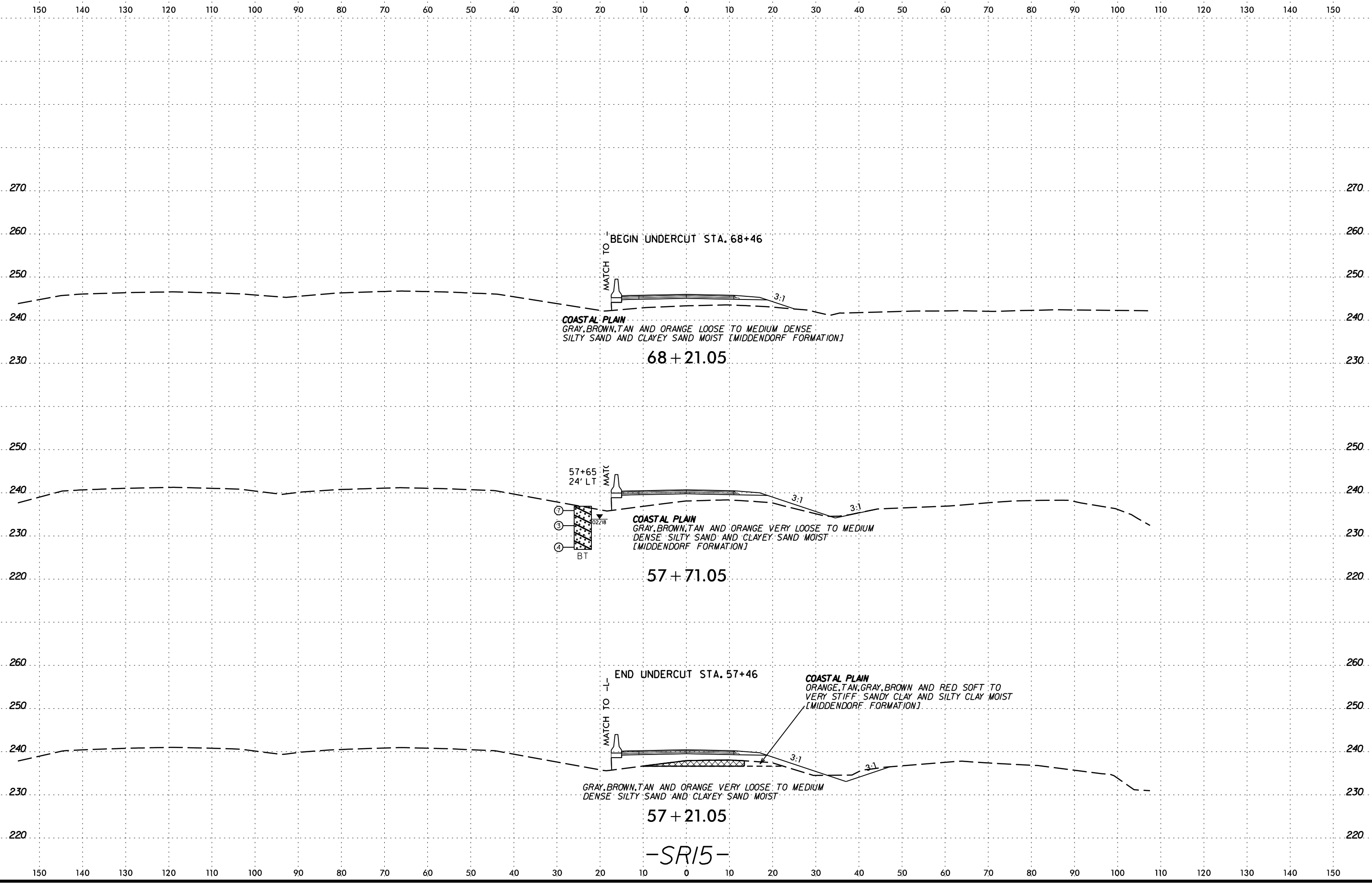
56 + 21.05

55 + 71.05

-SR15-

DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN
SHEET NO.: 150

6/23/16

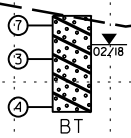


BEGIN UNDERCUT STA. 68+46

COASTAL PLAIN
GRAY, BROWN, TAN AND ORANGE LOOSE TO MEDIUM DENSE
SILTY SAND AND CLAYEY SAND MOIST [MIDDENDORF FORMATION]

68 + 21.05

57+65
24' LT



COASTAL PLAIN
GRAY, BROWN, TAN AND ORANGE VERY LOOSE TO MEDIUM
DENSE SILTY SAND AND CLAYEY SAND MOIST
[MIDDENDORF FORMATION]

57 + 71.05

END UNDERCUT STA. 57+46

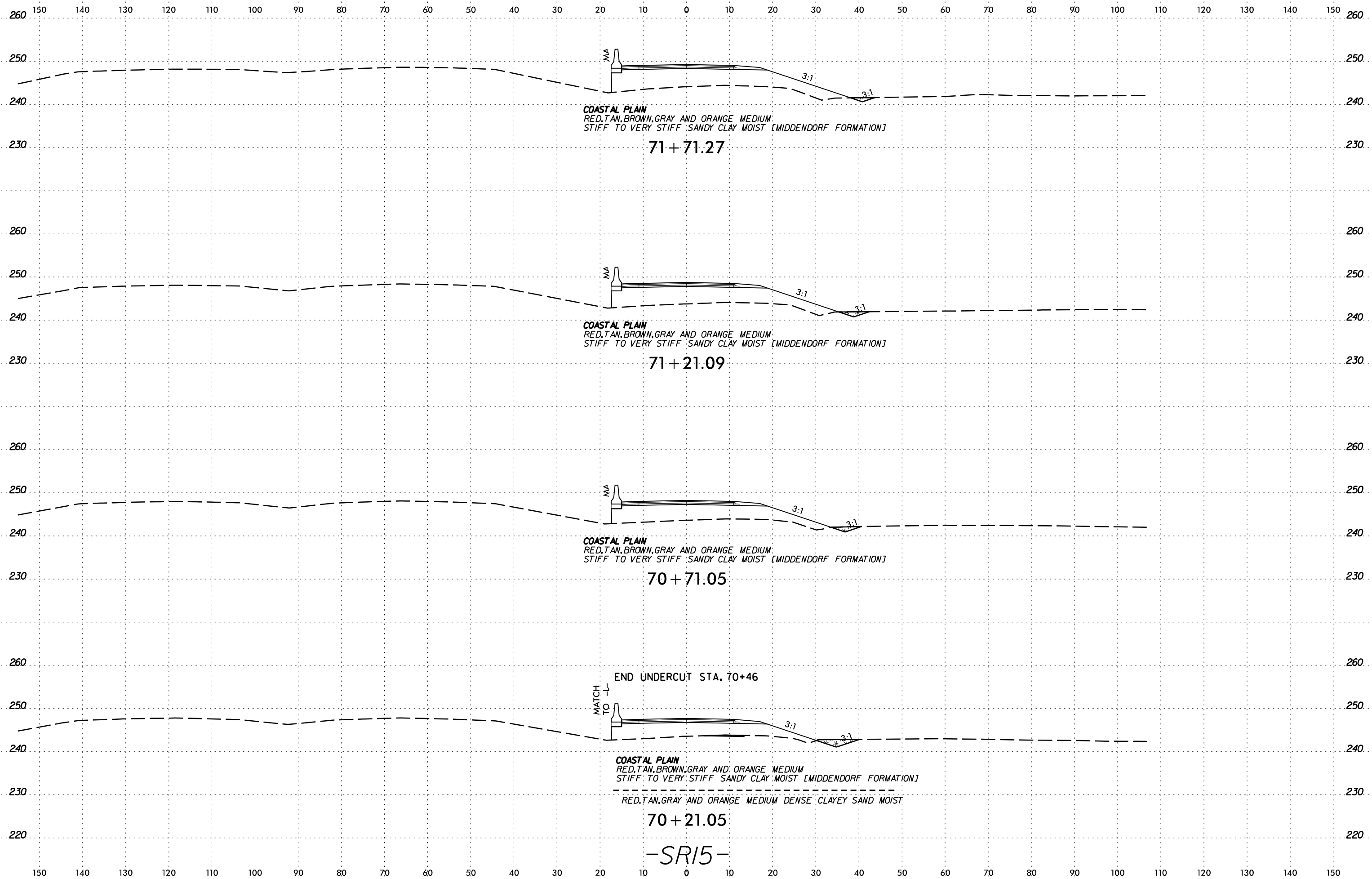
COASTAL PLAIN
ORANGE, TAN, GRAY, BROWN AND RED SOFT TO
VERY STIFF SANDY CLAY AND SILTY CLAY MOIST
[MIDDENDORF FORMATION]

GRAY, BROWN, TAN AND ORANGE VERY LOOSE TO MEDIUM
DENSE SILTY SAND AND CLAYEY SAND MOIST

57 + 21.05

-SR15-

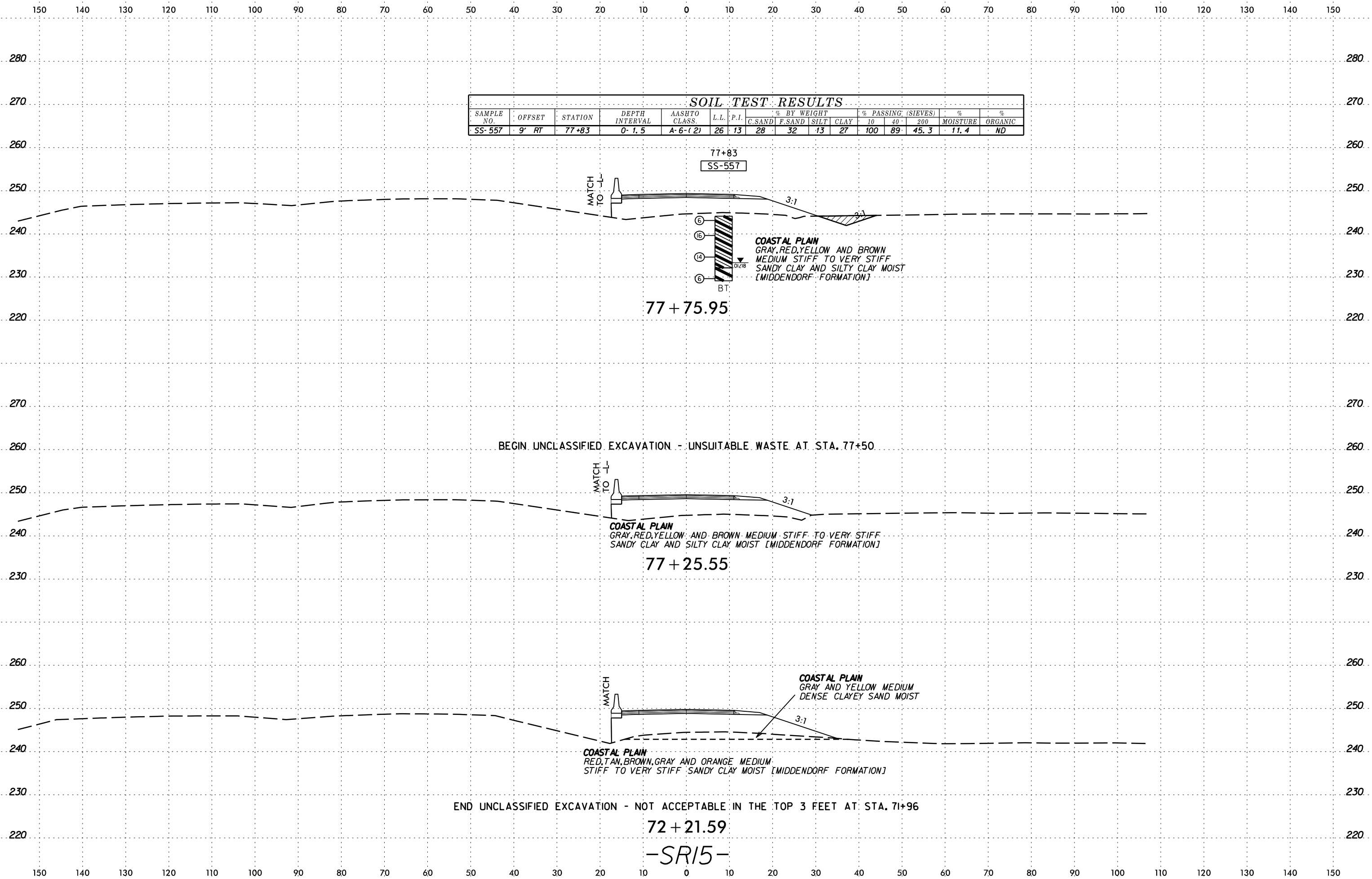
SCHEMATIC CROSS SECTION
DATE: 6/23/16
BY: JLR



SECTION ON
ARRANGEMENT

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-557	9' RT	77+83	0-1.5	A-6-(2)	26	13	28	32	13	27	100	89	45.3	11.4	ND



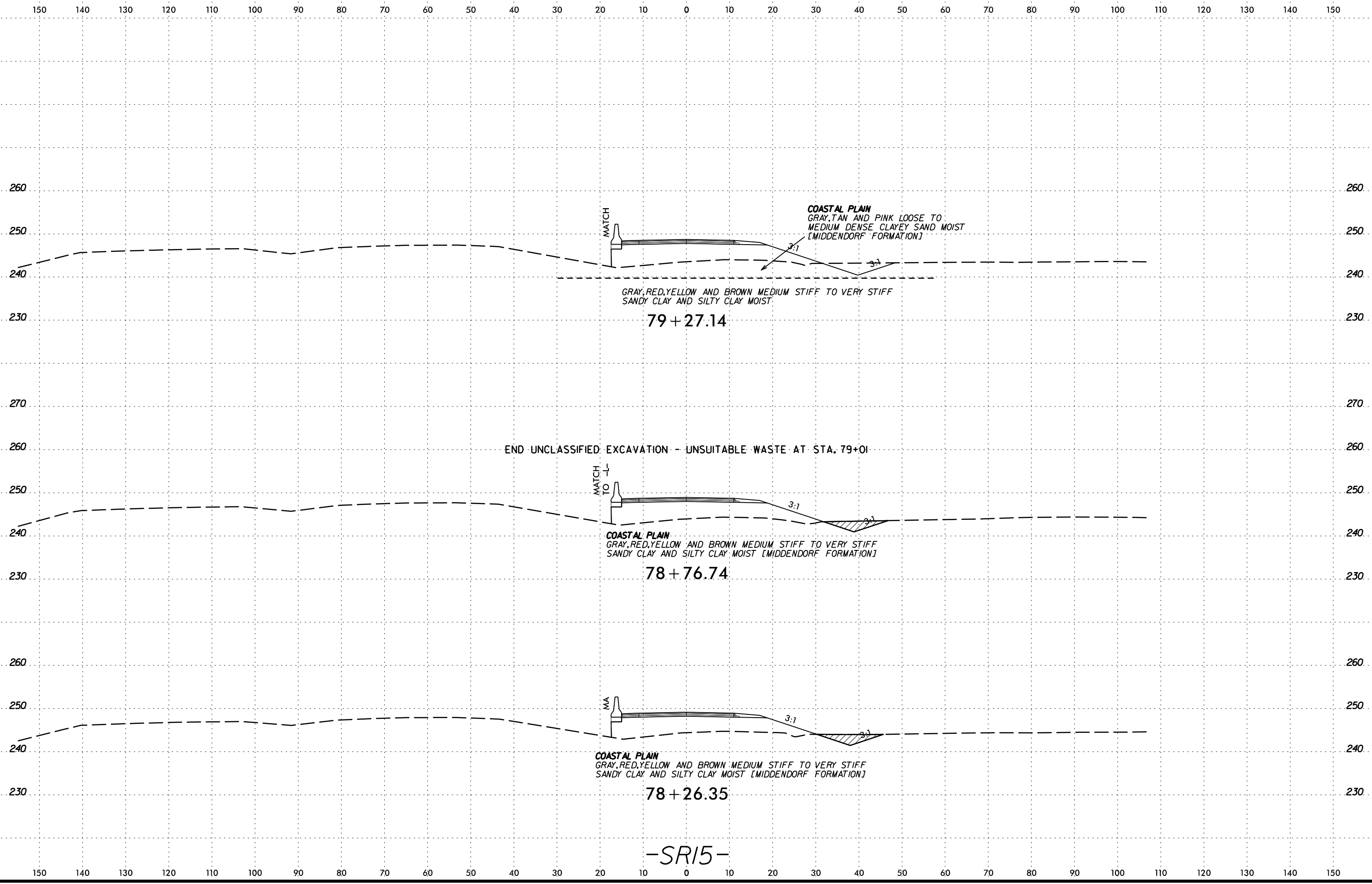
77 + 75.95

77 + 25.55

72 + 21.59

-SR15-

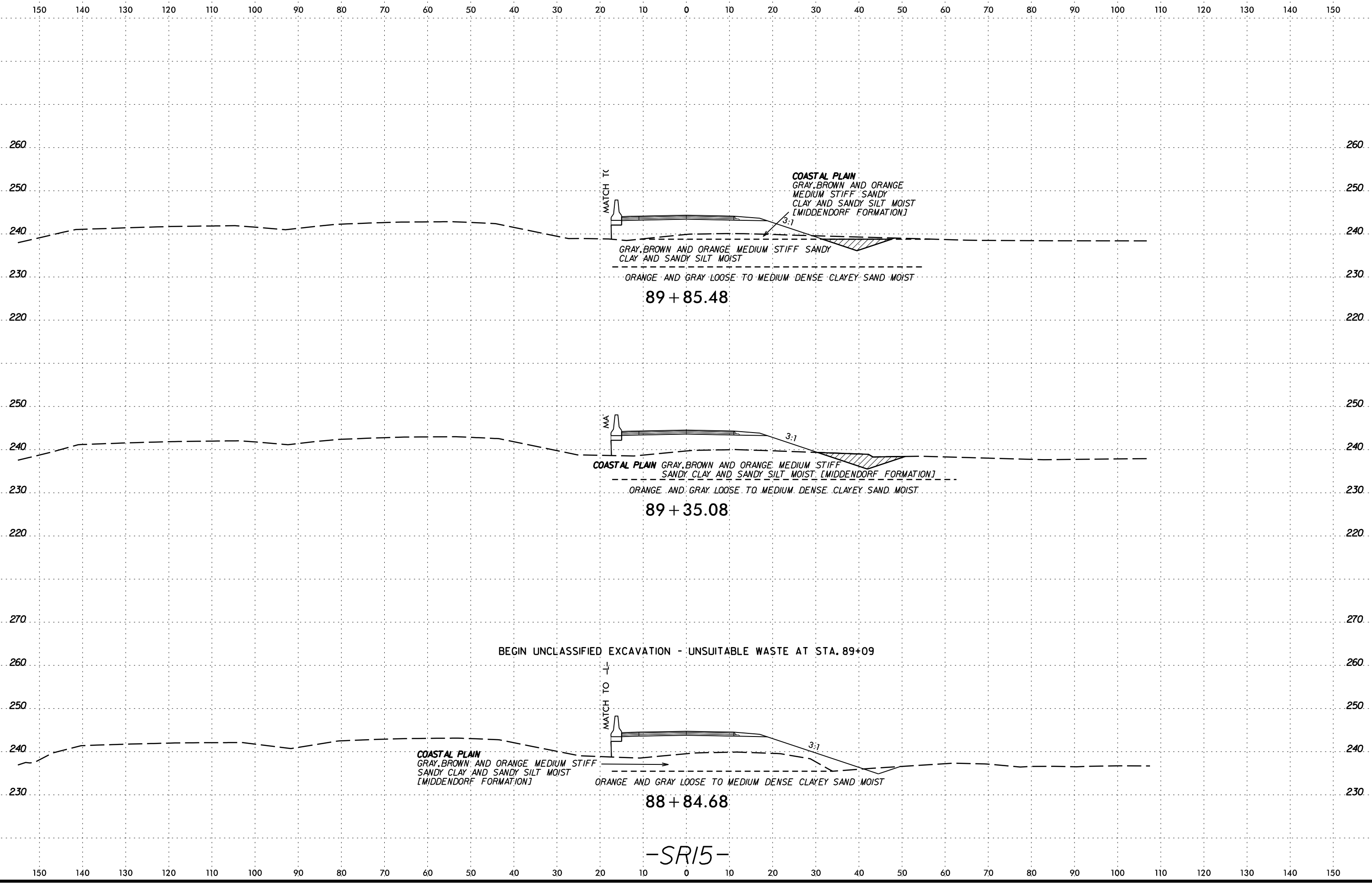
SCHEMATIC SECTION



-SR15-

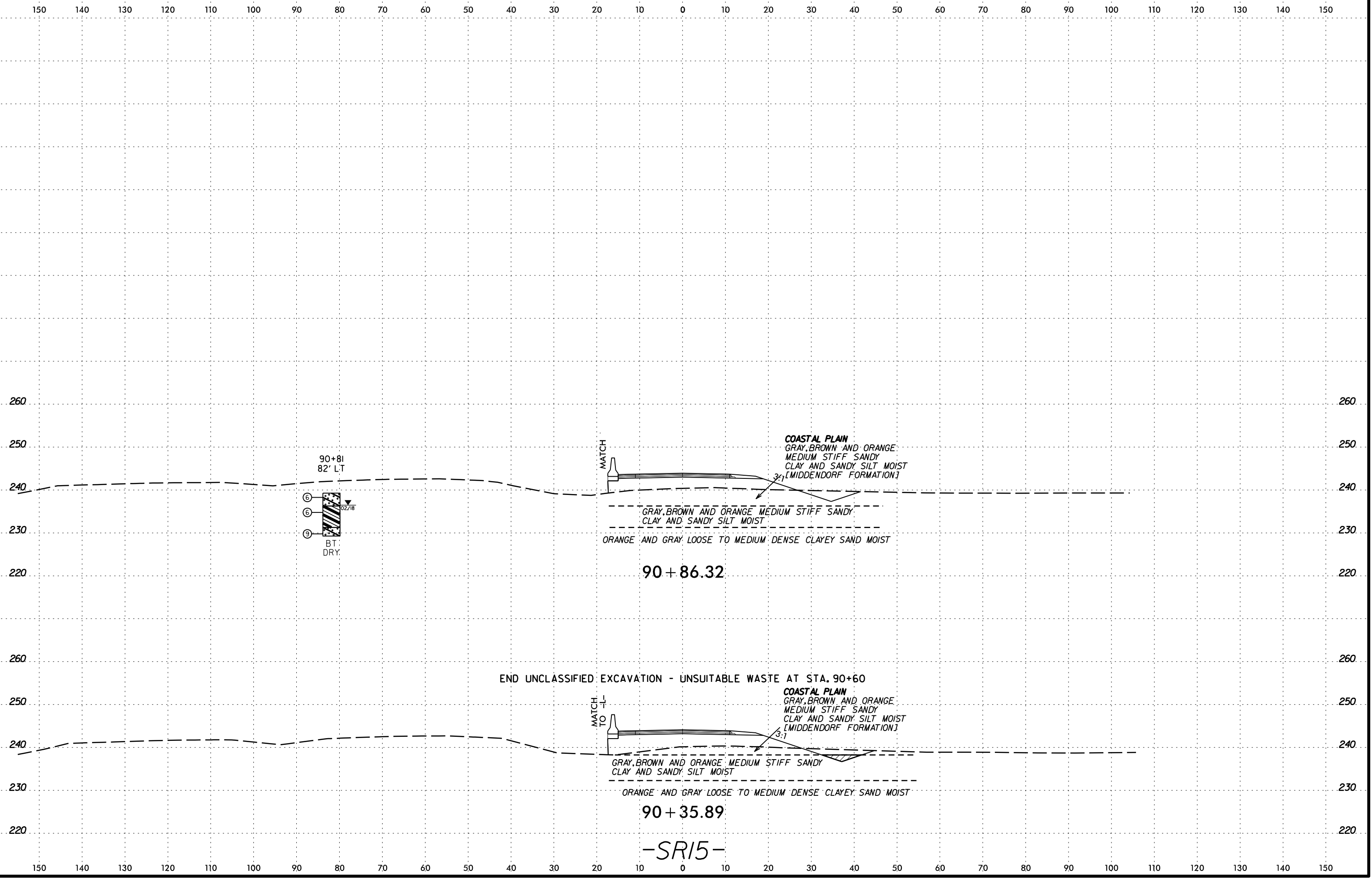
SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: J. BARRANE

6/23/16



-SR15-

DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN



SCHEMATIC CROSS SECTION

90 + 86.32

90 + 35.89

-SR15-

END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 90+60

COASTAL PLAIN
GRAY, BROWN AND ORANGE
MEDIUM STIFF SANDY
CLAY AND SANDY SILT MOIST
[MIDDENDORF FORMATION]

GRAY, BROWN AND ORANGE MEDIUM STIFF SANDY
CLAY AND SANDY SILT MOIST

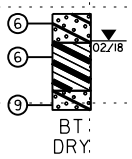
ORANGE AND GRAY LOOSE TO MEDIUM DENSE CLAYEY SAND MOIST

COASTAL PLAIN
GRAY, BROWN AND ORANGE
MEDIUM STIFF SANDY
CLAY AND SANDY SILT MOIST
[MIDDENDORF FORMATION]

GRAY, BROWN AND ORANGE MEDIUM STIFF SANDY
CLAY AND SANDY SILT MOIST

ORANGE AND GRAY LOOSE TO MEDIUM DENSE CLAYEY SAND MOIST

90+81
82' LT



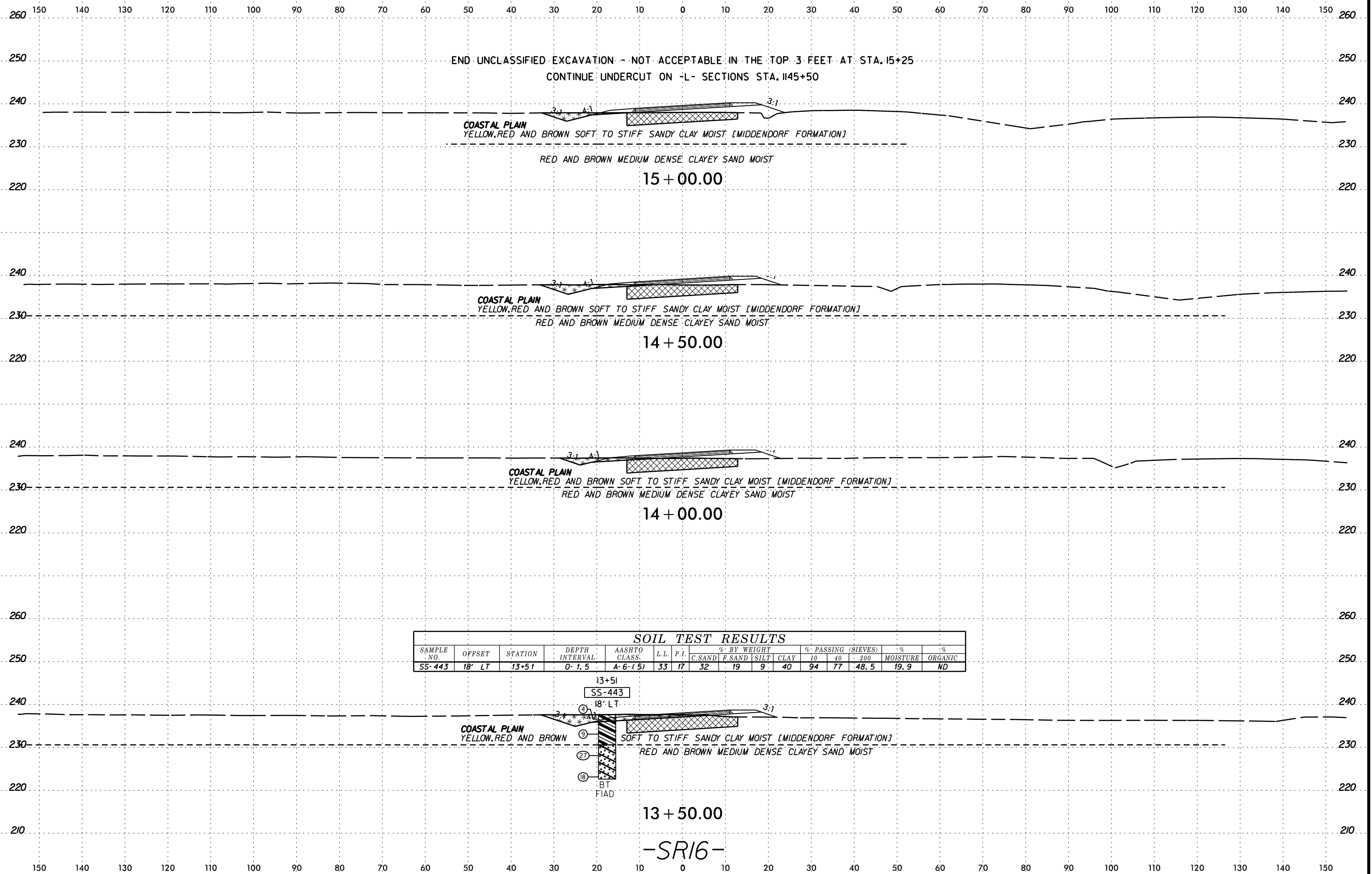
MATCH

MATCH TO

3:1

3:1

6/23/16



END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 15+25
CONTINUE UNDERCUT ON -L- SECTIONS STA. 14+50

COASTAL PLAIN
YELLOW, RED AND BROWN SOFT TO STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]

RED AND BROWN MEDIUM DENSE CLAYEY SAND MOIST

15 + 00.00

COASTAL PLAIN
YELLOW, RED AND BROWN SOFT TO STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]

RED AND BROWN MEDIUM DENSE CLAYEY SAND MOIST

14 + 50.00

COASTAL PLAIN
YELLOW, RED AND BROWN SOFT TO STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]

RED AND BROWN MEDIUM DENSE CLAYEY SAND MOIST

14 + 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-443	18' LT	13+51	0-1.5	A-6-(5)	33	17	32	19	9	40	94	77	48.5	19.9	ND

13+51
SS-443

18' LT

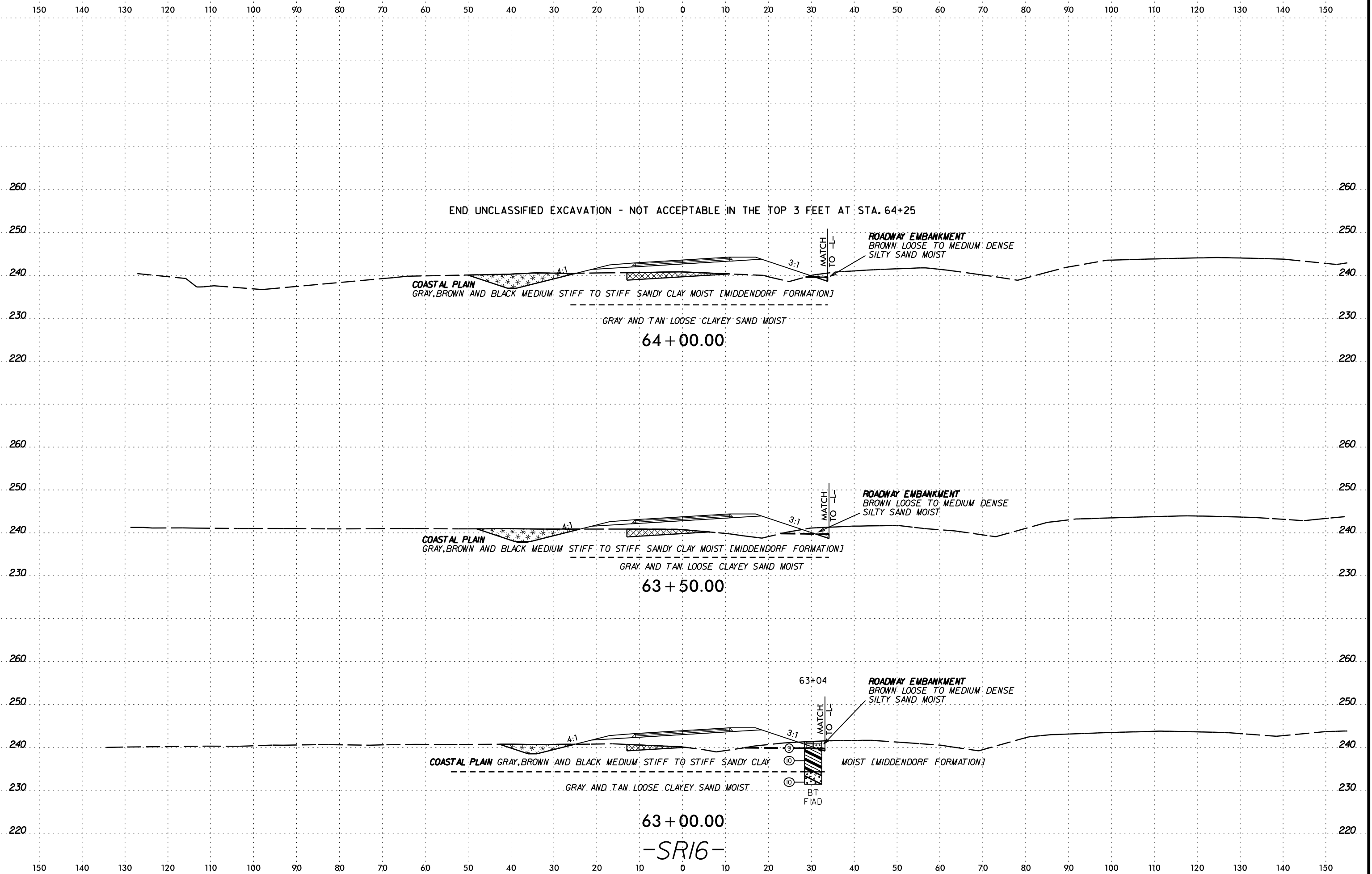
COASTAL PLAIN
YELLOW, RED AND BROWN
SOFT TO STIFF SANDY CLAY MOIST [MIDDENDORF FORMATION]
RED AND BROWN MEDIUM DENSE CLAYEY SAND MOIST

BT
FIAD

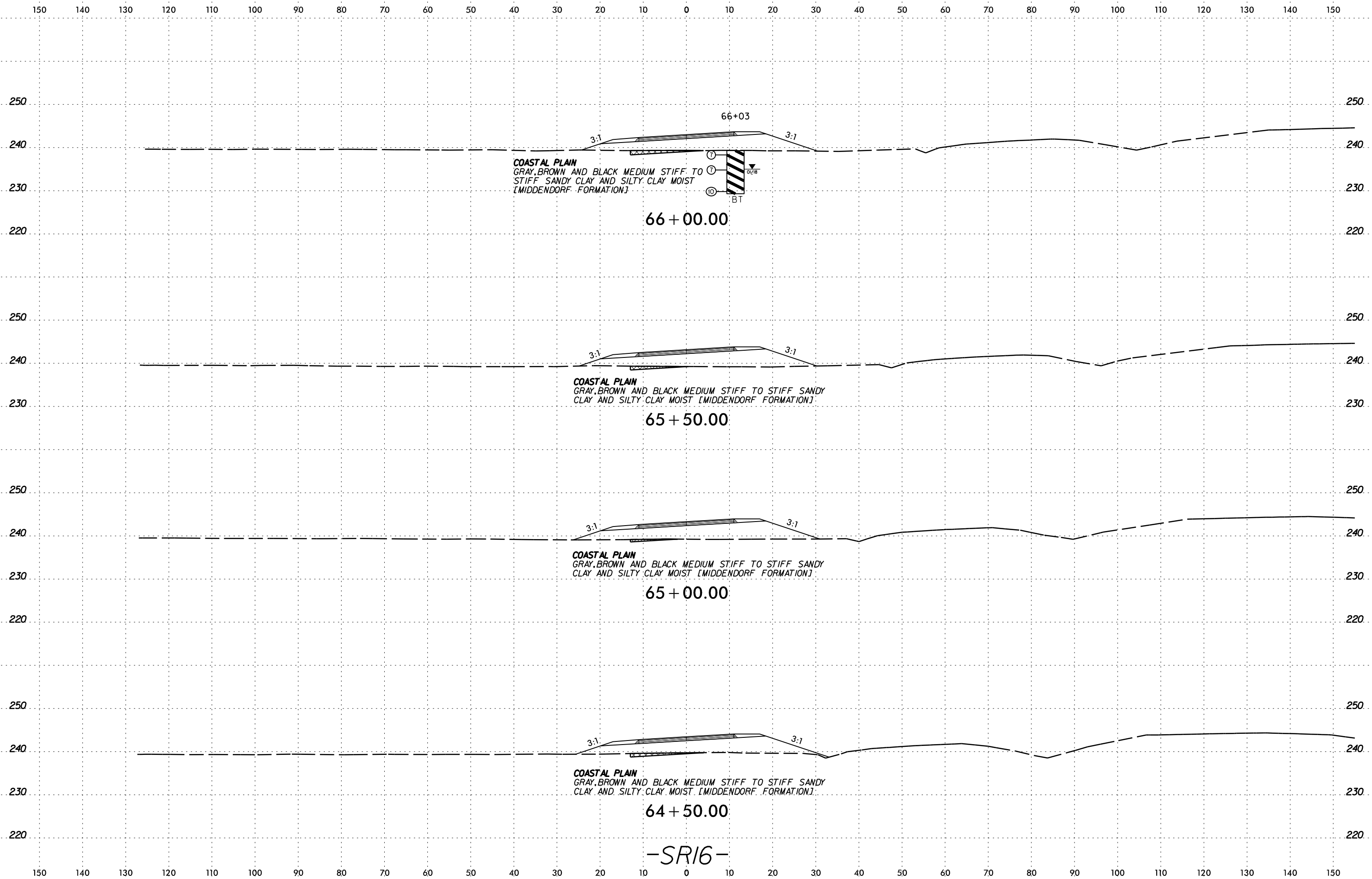
13 + 50.00

-SR16-

6/23/16
SCHEMATIC
CONSTRUCTION
DRAWING
ARRANGEMENT



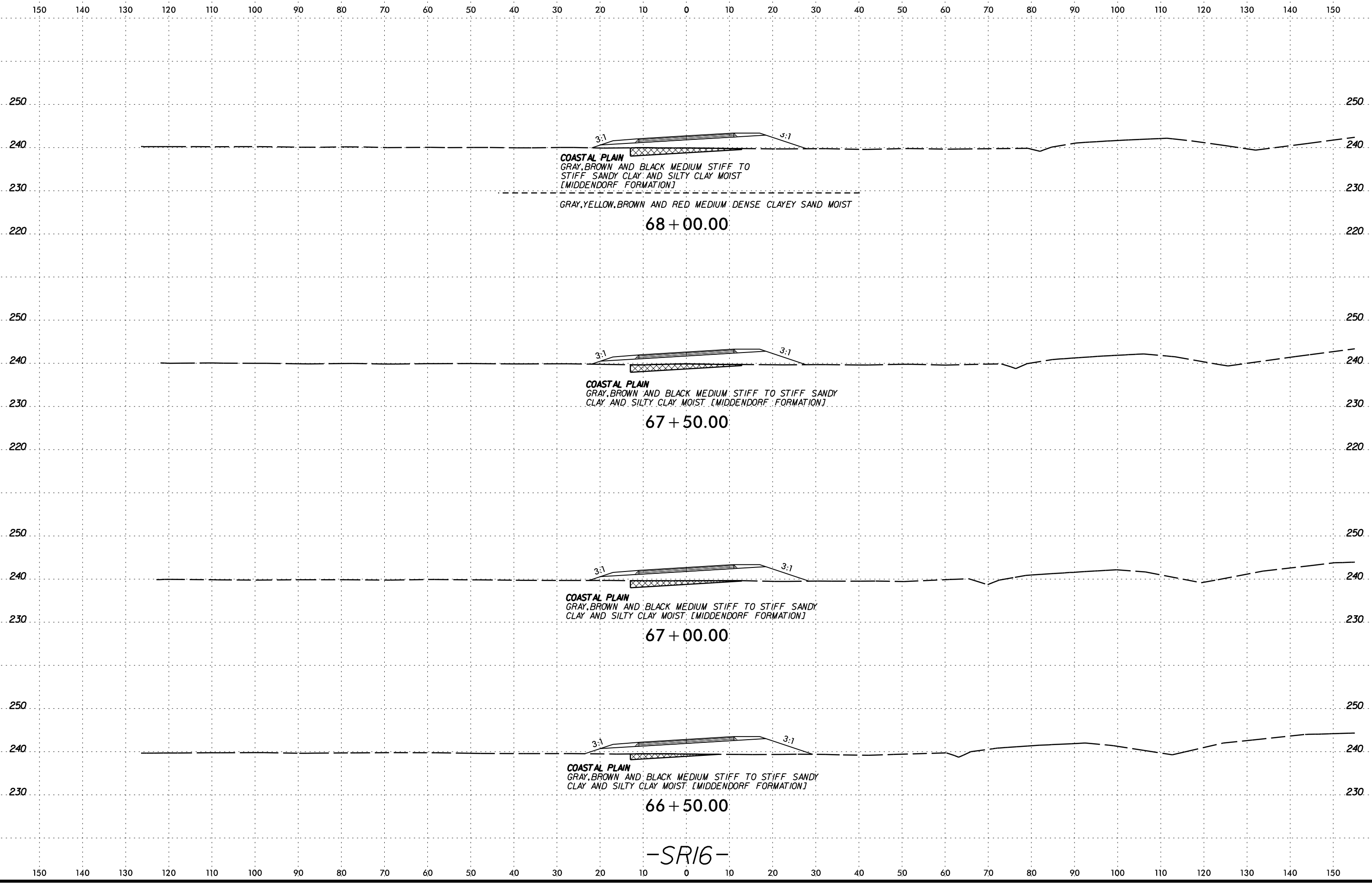
6/23/16



-SR16-

SCHEMATIC CROSS SECTION
 OF
 EMBANKMENT
 STRUCTURE

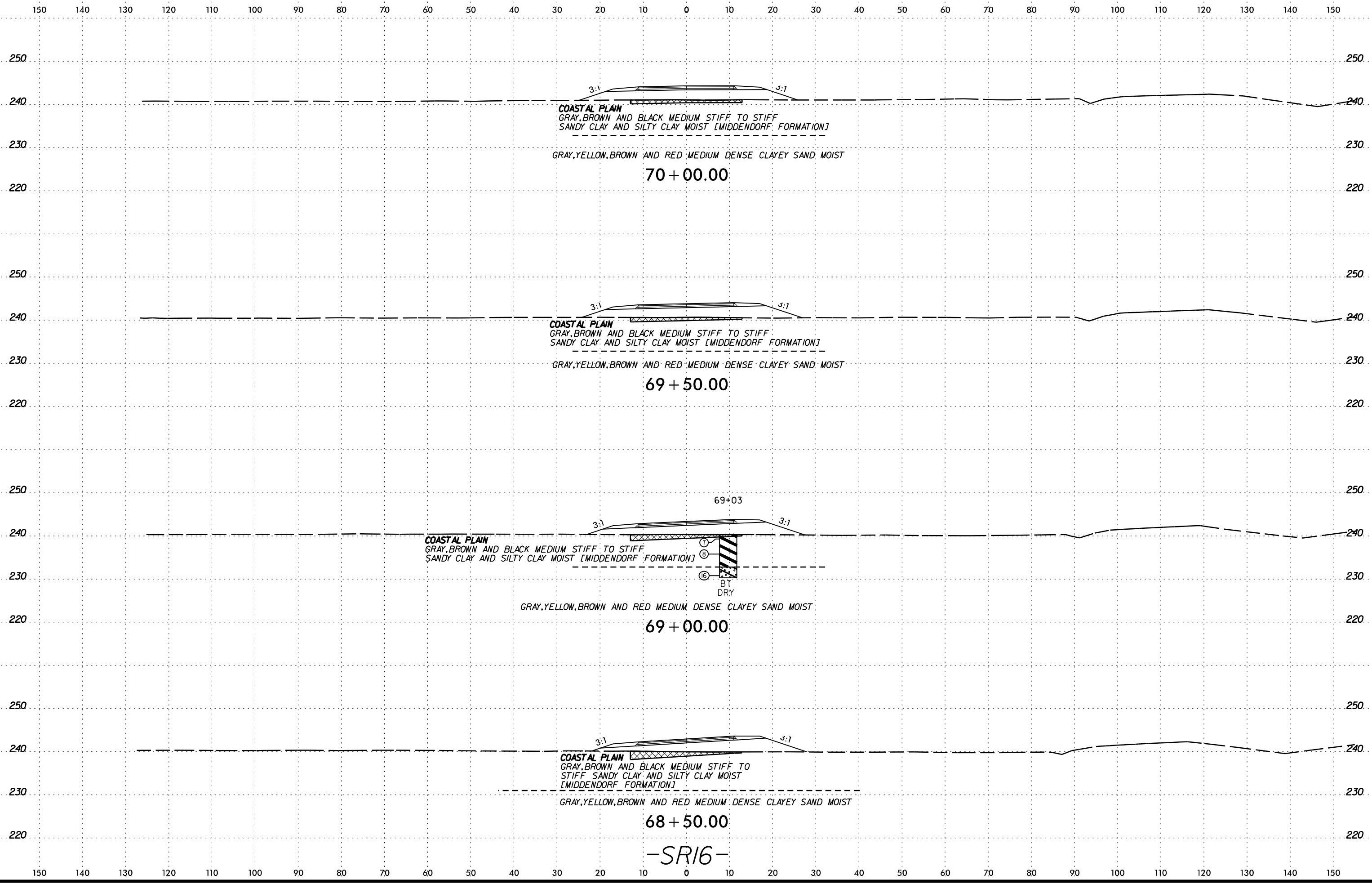
6/23/16



-SR16-

DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN

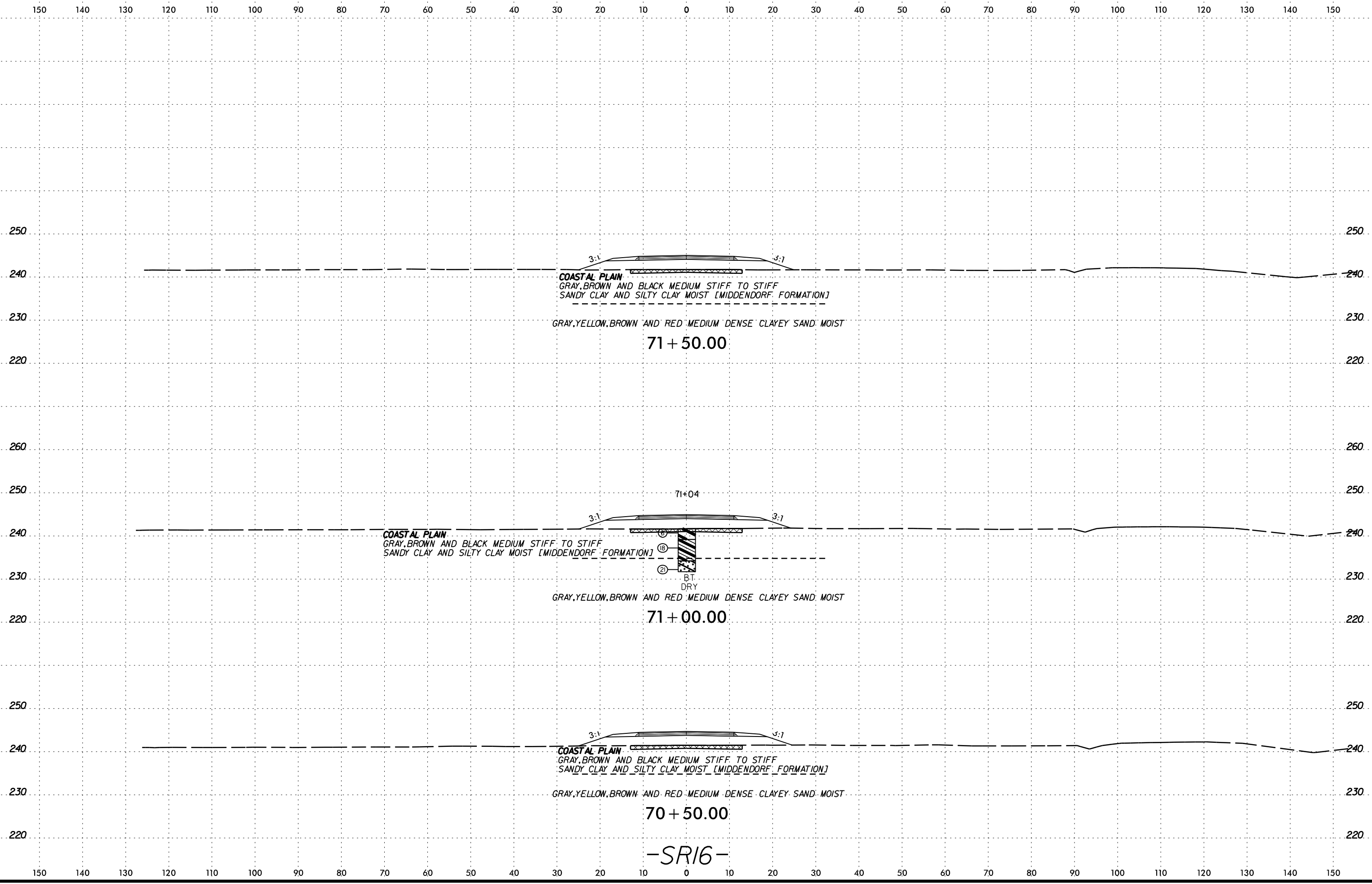
6/23/16



SECTION ON
ARRIVE

-SR16-

6/23/16



3:1 3:1
COASTAL PLAIN
 GRAY, BROWN AND BLACK MEDIUM STIFF TO STIFF
 SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]
 GRAY, YELLOW, BROWN AND RED MEDIUM DENSE CLAYEY SAND MOIST
 71 + 50.00

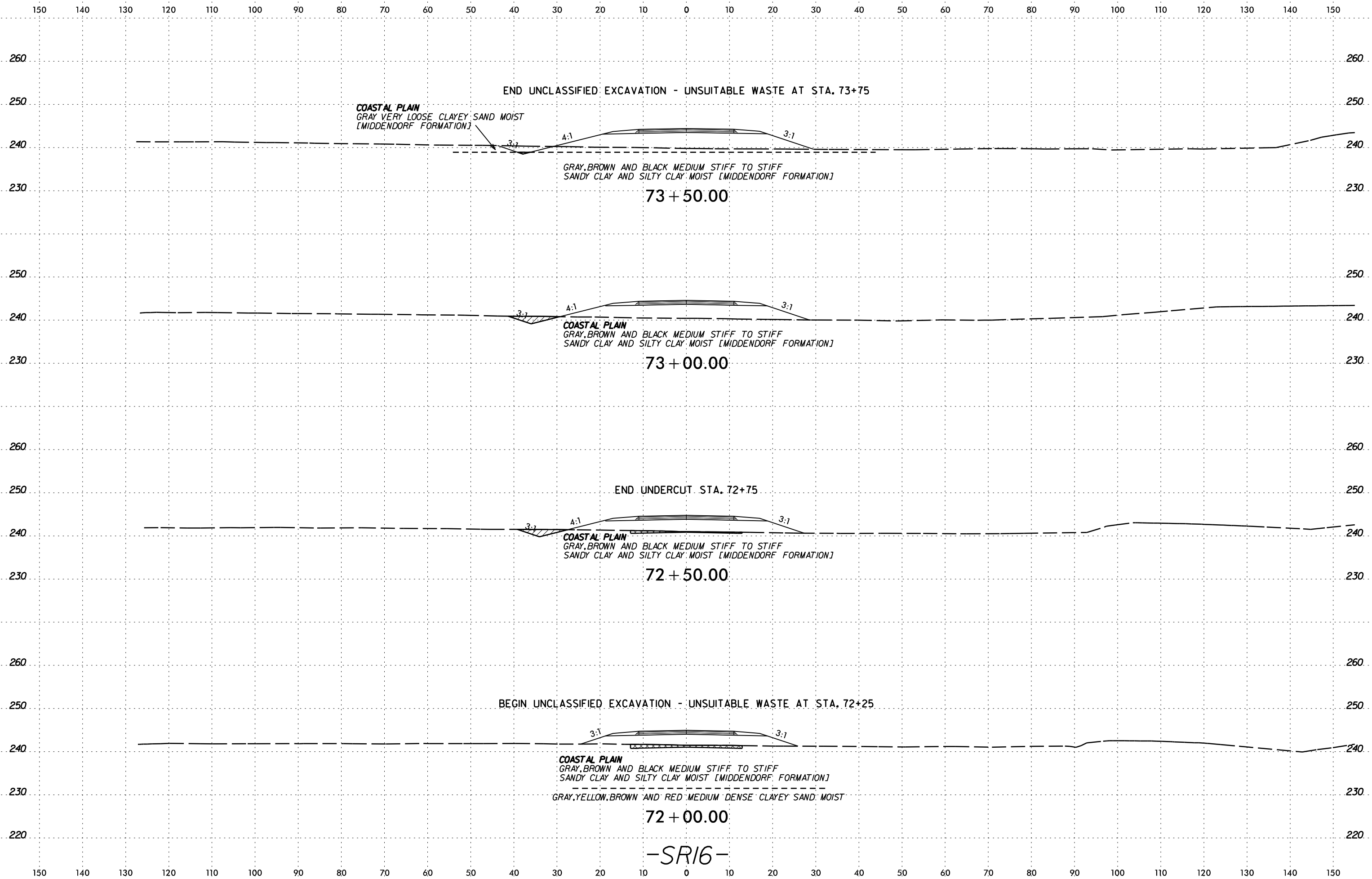
3:1 3:1
COASTAL PLAIN
 GRAY, BROWN AND BLACK MEDIUM STIFF TO STIFF
 SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]
 (1)
 (2)
 BT
 DRY
 GRAY, YELLOW, BROWN AND RED MEDIUM DENSE CLAYEY SAND MOIST
 71 + 00.00

3:1 3:1
COASTAL PLAIN
 GRAY, BROWN AND BLACK MEDIUM STIFF TO STIFF
 SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]
 GRAY, YELLOW, BROWN AND RED MEDIUM DENSE CLAYEY SAND MOIST
 70 + 50.00

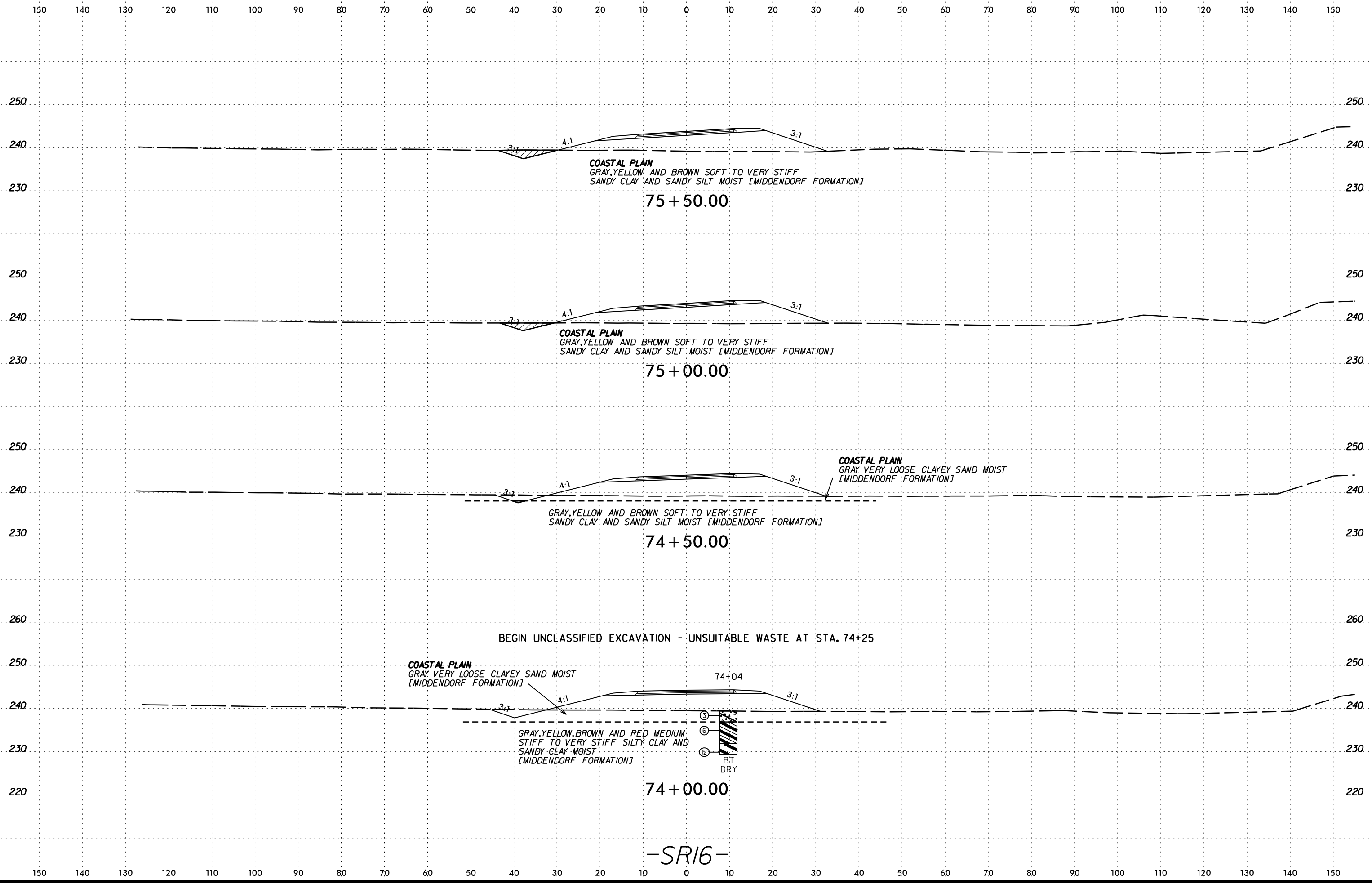
-SR16-

SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: J. BARRANE

6/23/16

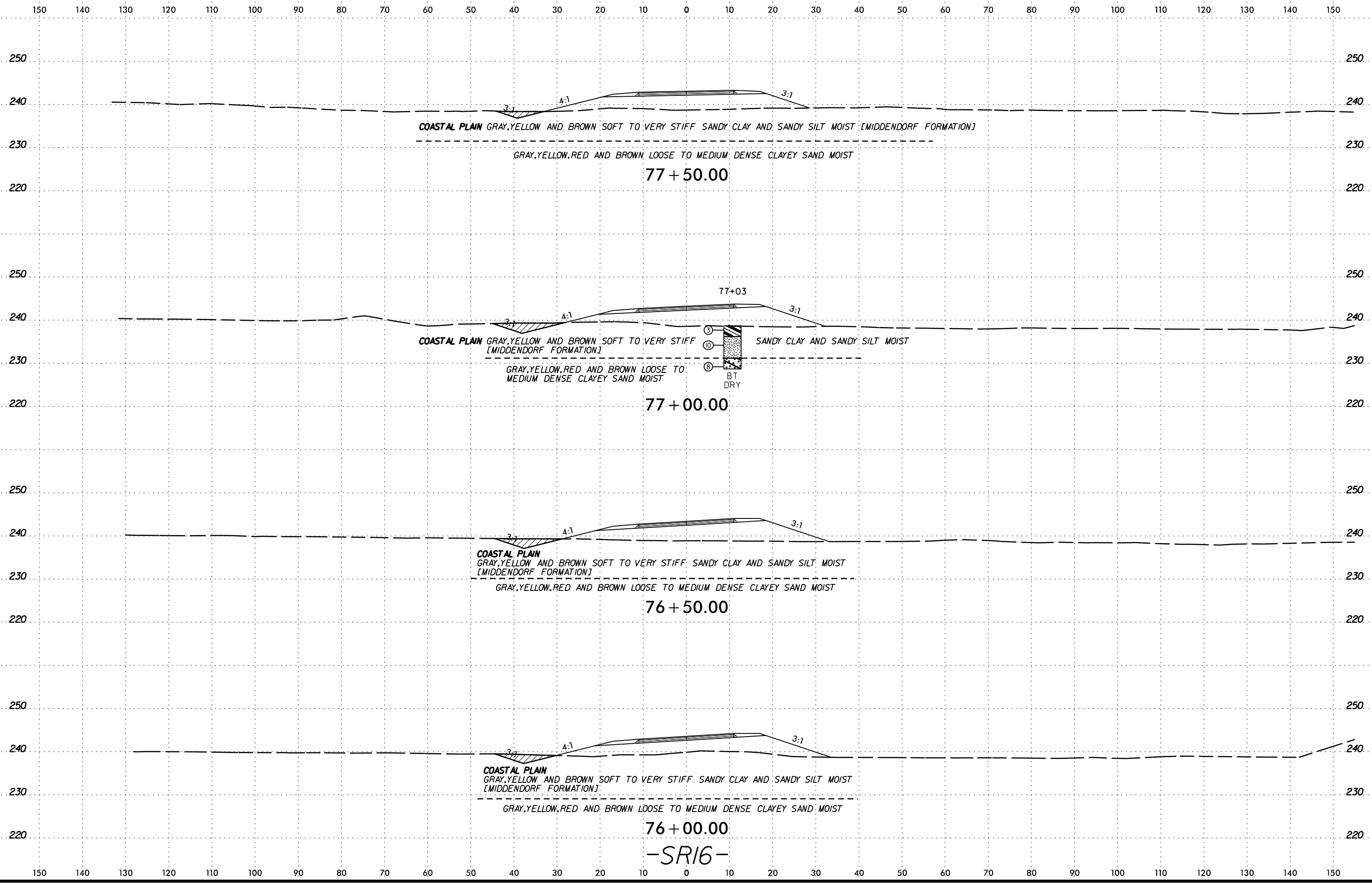


SCHEMATIC CROSS SECTION
ARRANGEMENT



-SR16-

SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: J. BARRON



77+50.00
 COASTAL PLAIN GRAY, YELLOW AND BROWN SOFT TO VERY STIFF SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]
 GRAY, YELLOW, RED AND BROWN LOOSE TO MEDIUM DENSE CLAYEY SAND MOIST

77+00.00
 COASTAL PLAIN GRAY, YELLOW AND BROWN SOFT TO VERY STIFF SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]
 GRAY, YELLOW, RED AND BROWN LOOSE TO MEDIUM DENSE CLAYEY SAND MOIST
 BT DRY

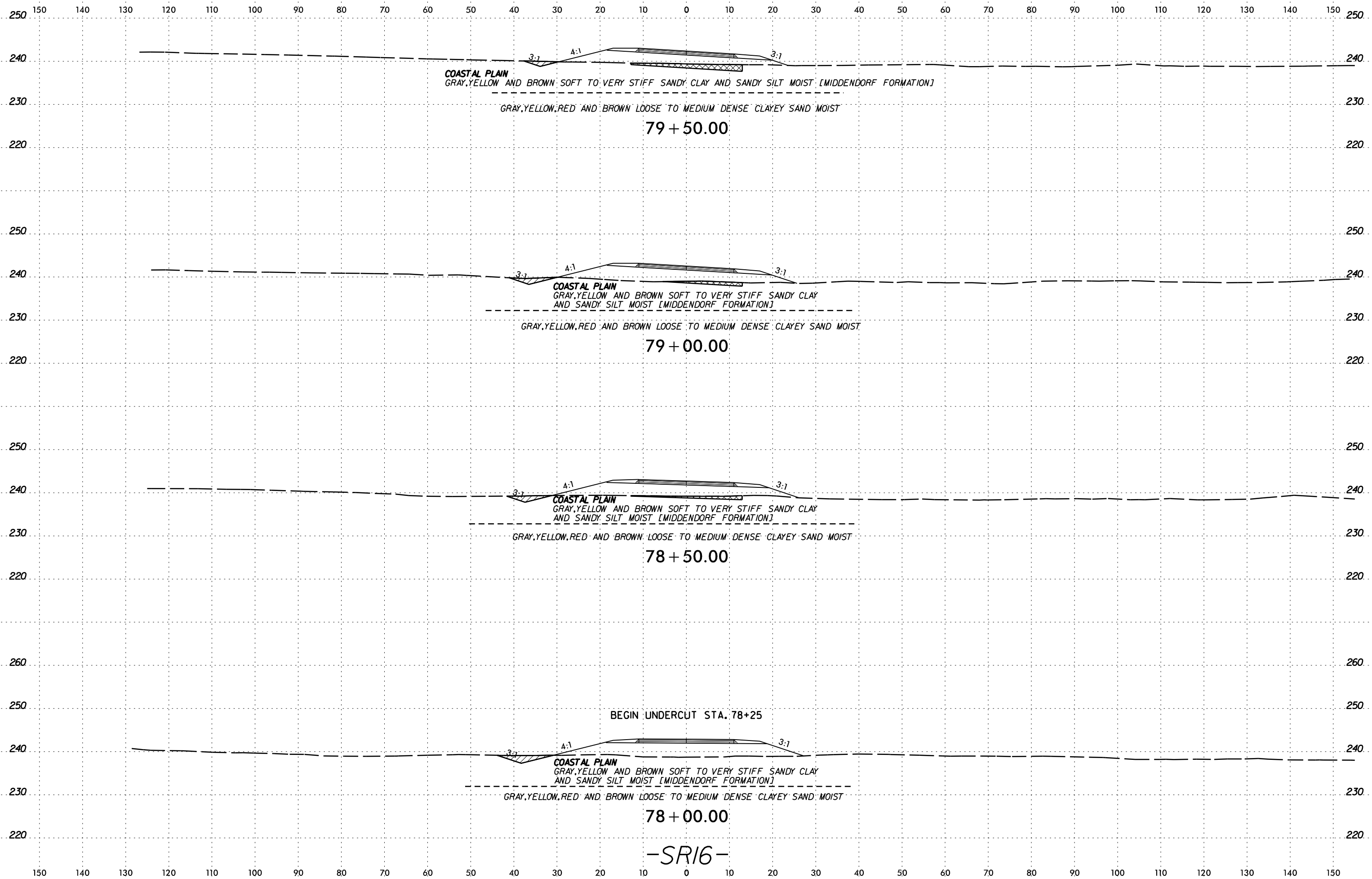
76+50.00
 COASTAL PLAIN GRAY, YELLOW AND BROWN SOFT TO VERY STIFF SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]
 GRAY, YELLOW, RED AND BROWN LOOSE TO MEDIUM DENSE CLAYEY SAND MOIST

76+00.00
 COASTAL PLAIN GRAY, YELLOW AND BROWN SOFT TO VERY STIFF SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]
 GRAY, YELLOW, RED AND BROWN LOOSE TO MEDIUM DENSE CLAYEY SAND MOIST

-SR16-

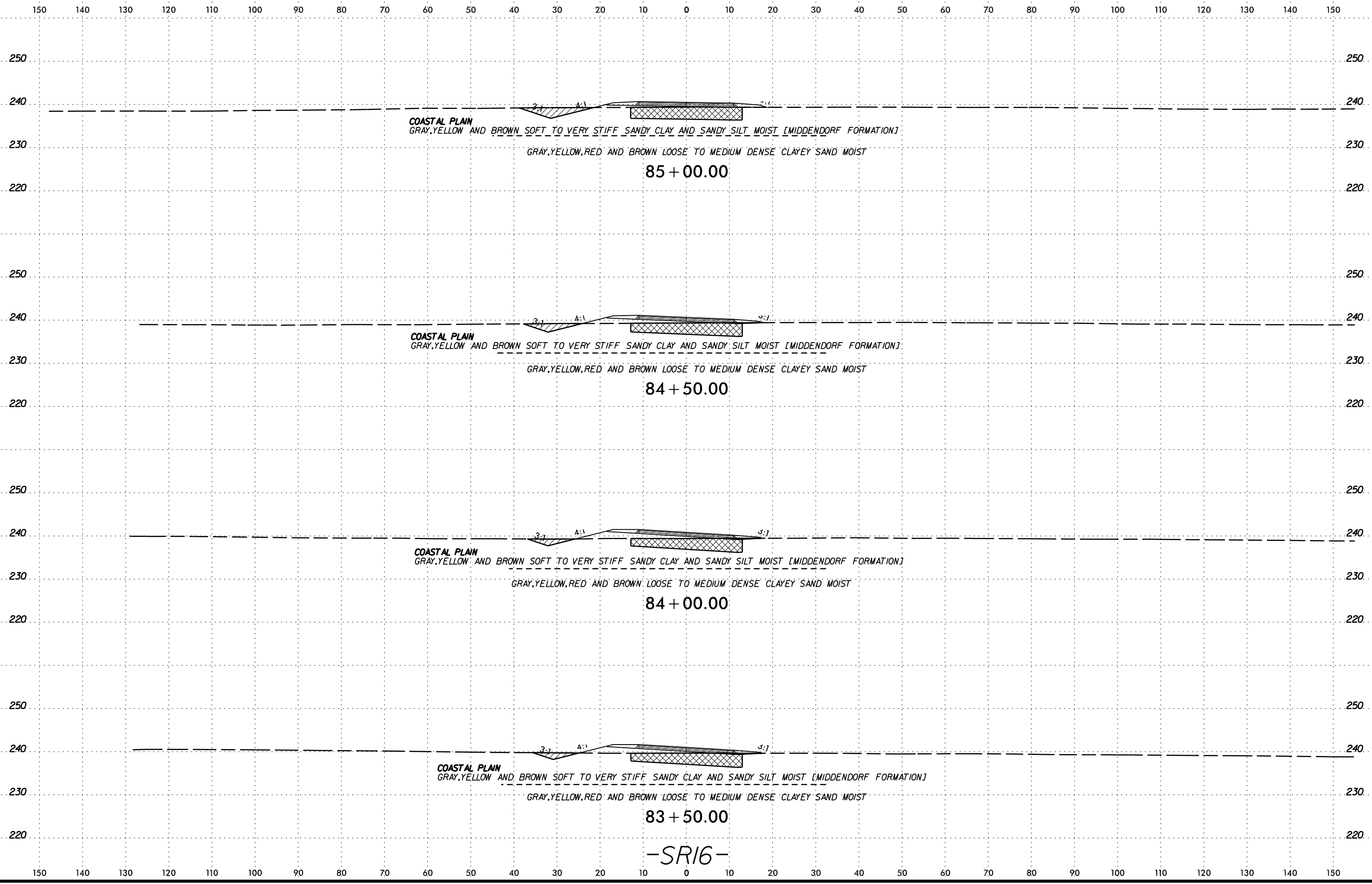
DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 APPROVED BY: [illegible]

6/23/16



SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: [illegible]

6/23/16

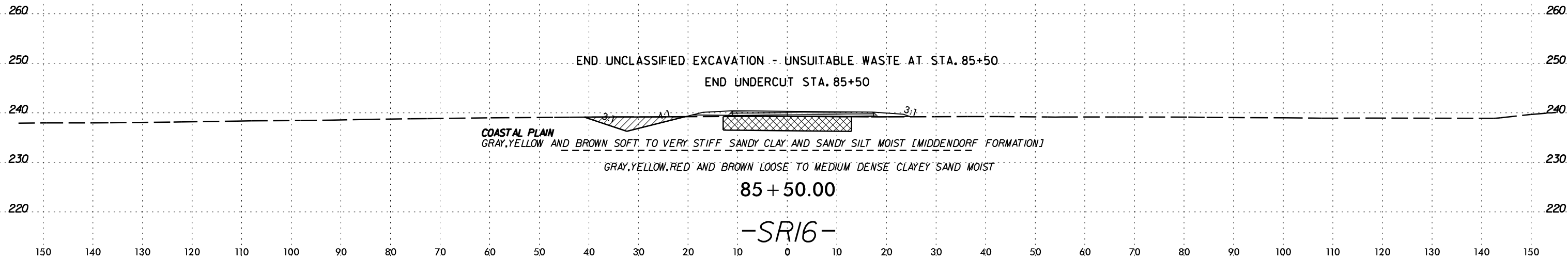


-SR16-

DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN

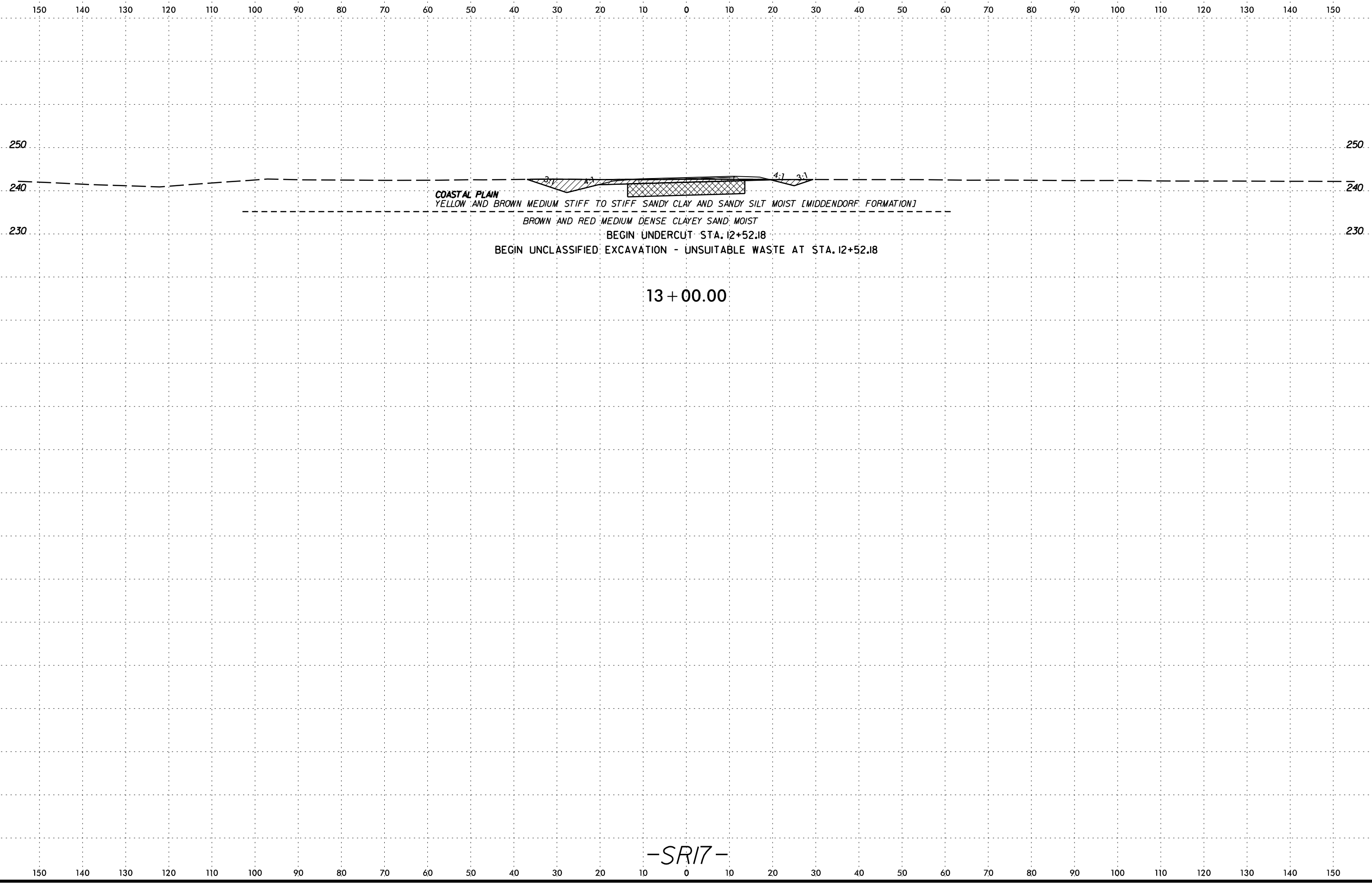
6/23/16

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



DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 APPROVED BY: [illegible]

6/23/16



COASTAL PLAIN
 YELLOW AND BROWN MEDIUM STIFF TO STIFF SANDY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]

BROWN AND RED MEDIUM DENSE CLAYEY SAND MOIST

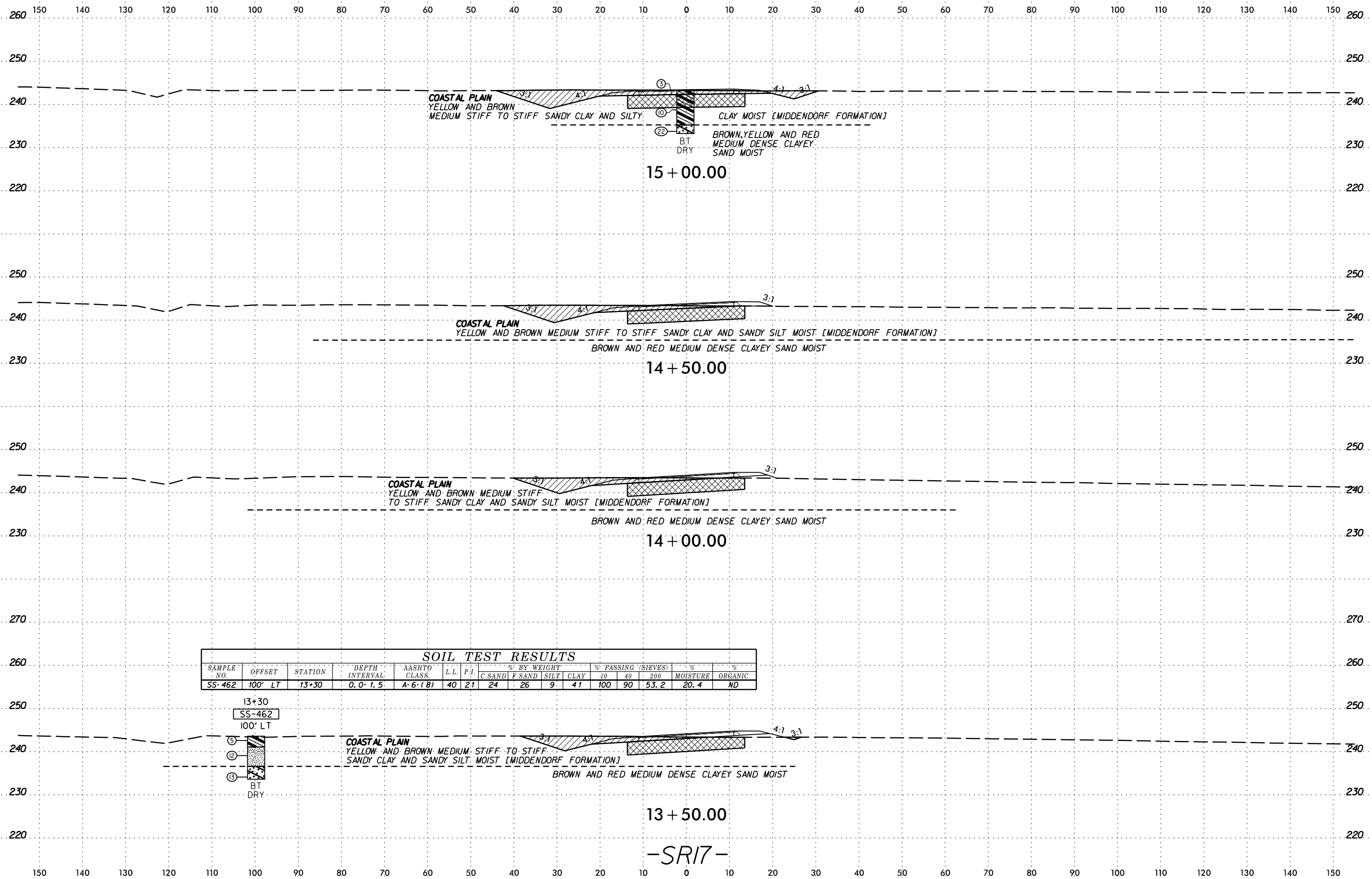
BEGIN UNDERCUT STA. 12+52.18

BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 12+52.18

13+00.00

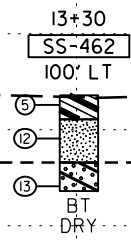
-SR17-

DATE: 6/23/16
 TIME: 10:00 AM
 DRAWN BY: J. BRYAN
 CHECKED BY: J. BRYAN



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-462	100' LT	13+30	0.0-1.5'	A-6-(8)	40	21	24	26	9	41	100	90	53.2	20.4	ND

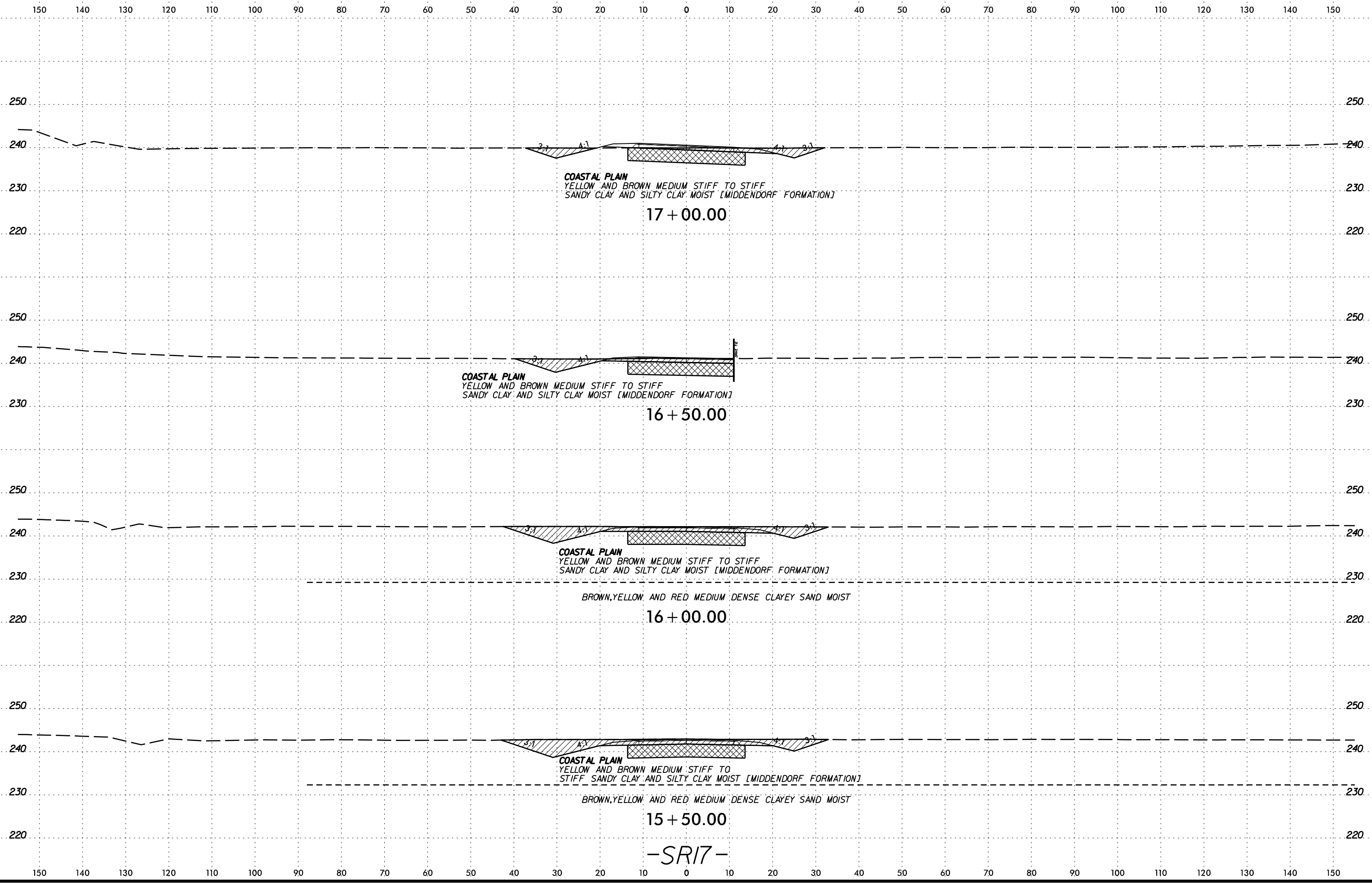


13 + 50.00

-SR17-

DATE PLOTTED: 6/23/16

6/23/16



COASTAL PLAIN
 YELLOW AND BROWN MEDIUM STIFF TO STIFF
 SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]
 17 + 00.00

COASTAL PLAIN
 YELLOW AND BROWN MEDIUM STIFF TO STIFF
 SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]
 16 + 50.00

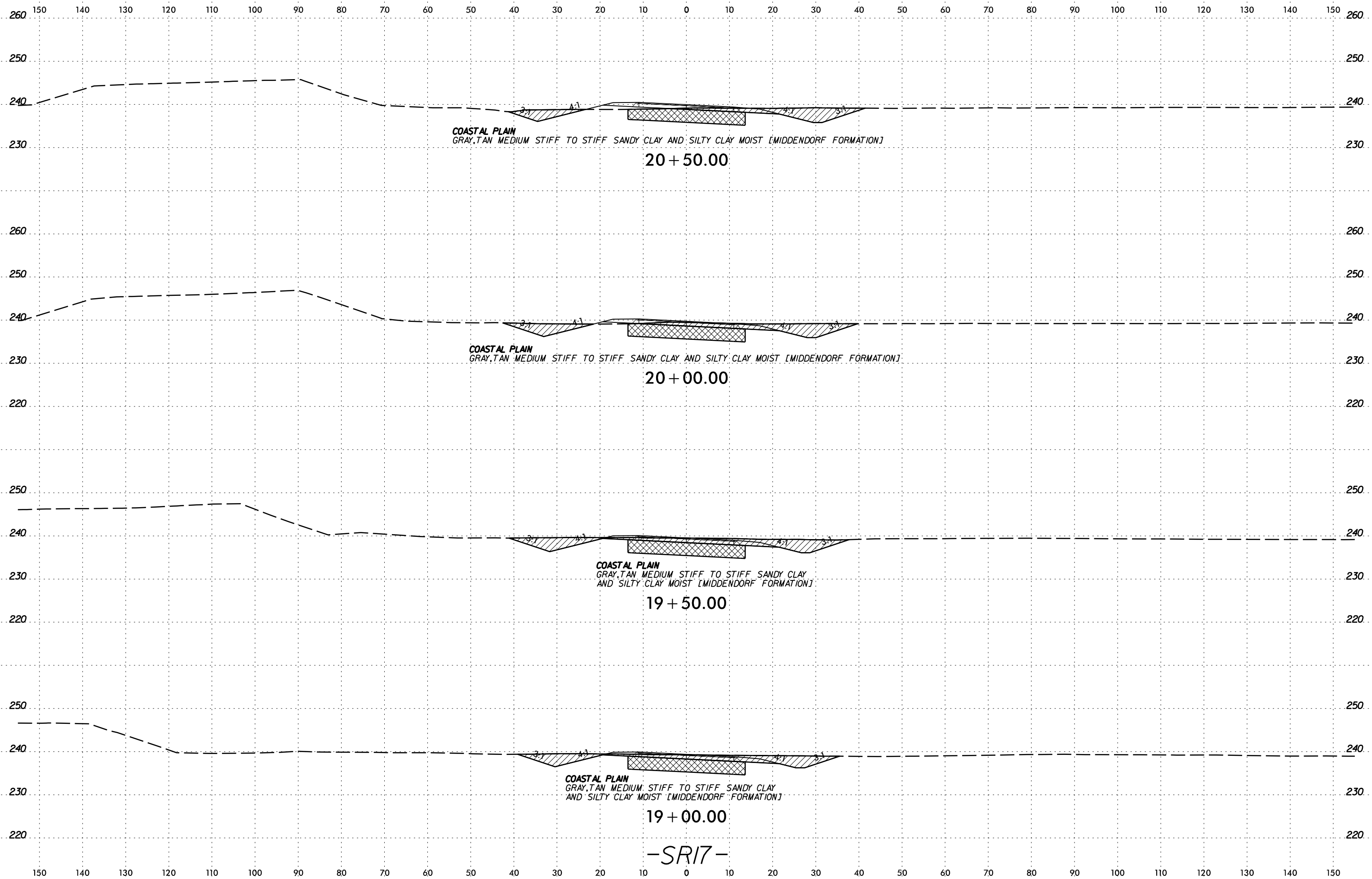
COASTAL PLAIN
 YELLOW AND BROWN MEDIUM STIFF TO STIFF
 SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]
 BROWN, YELLOW, AND RED MEDIUM DENSE CLAYEY SAND MOIST
 16 + 00.00

COASTAL PLAIN
 YELLOW AND BROWN MEDIUM STIFF TO STIFF
 SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]
 BROWN, YELLOW, AND RED MEDIUM DENSE CLAYEY SAND MOIST
 15 + 50.00

-SR17-

SECTION ON JULY 1994

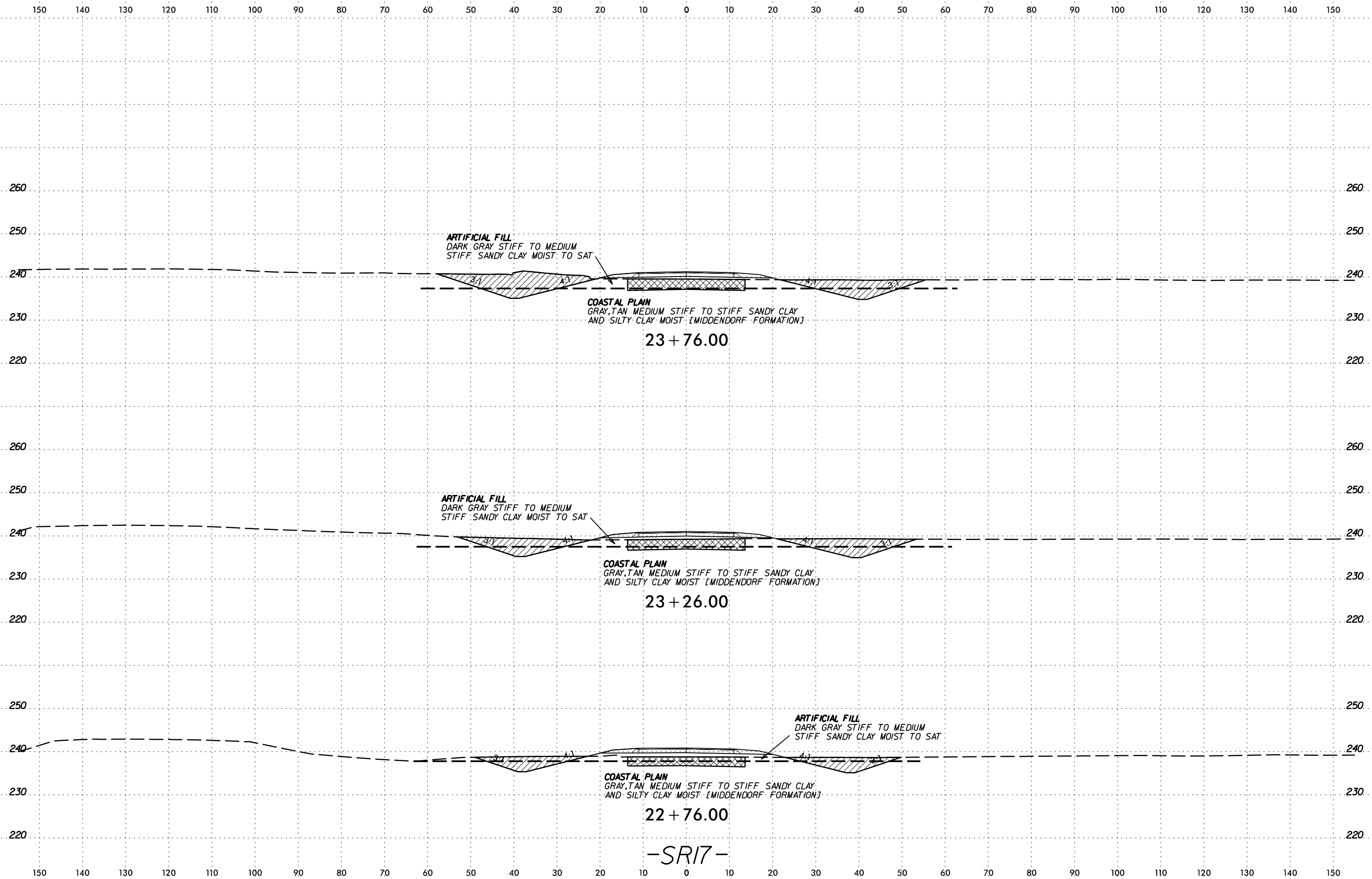
6/23/16



-SR17-

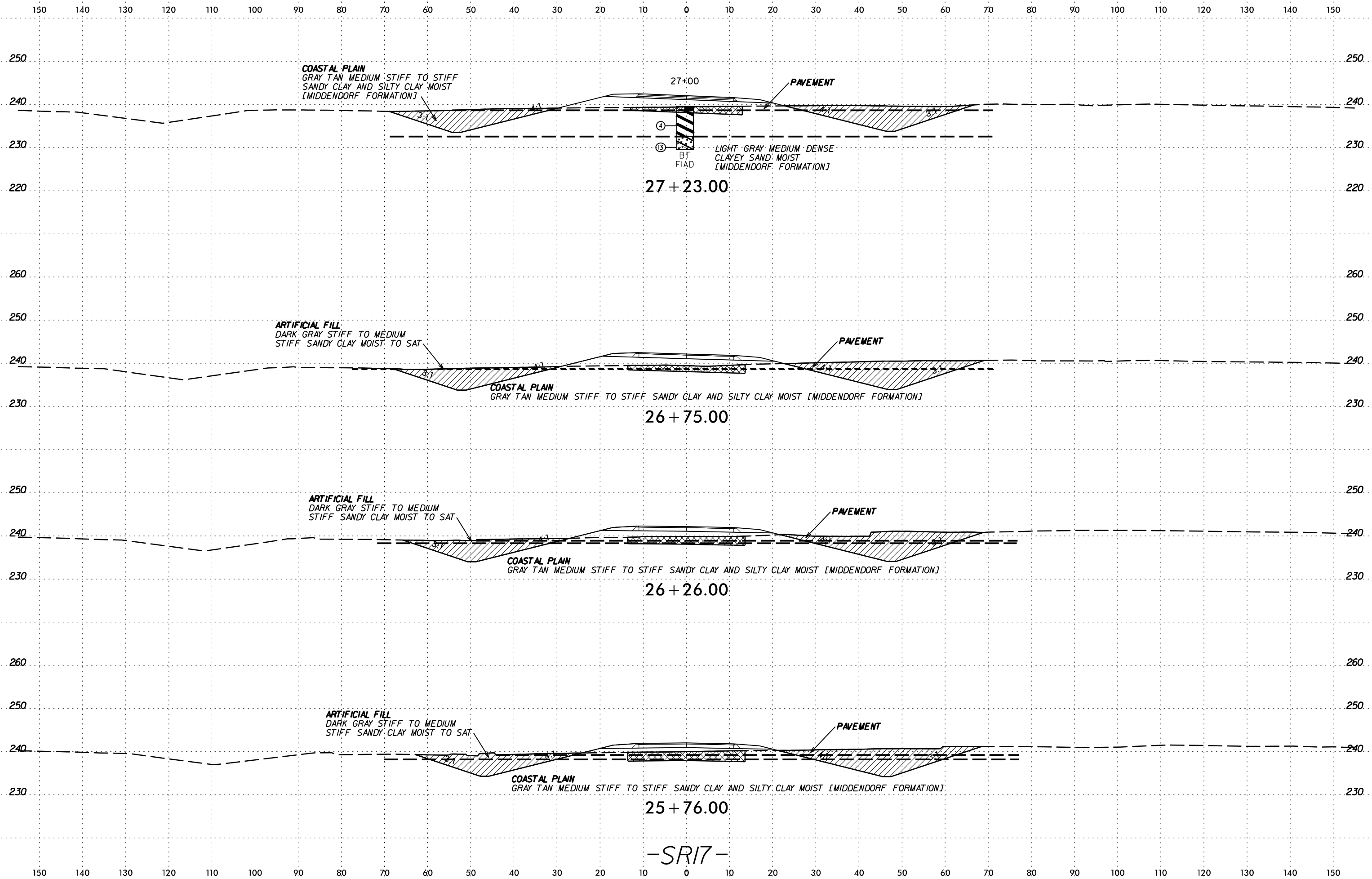
SECTION ON
SOUTH SIDE OF
ROADWAY

6/23/16



-SR17-

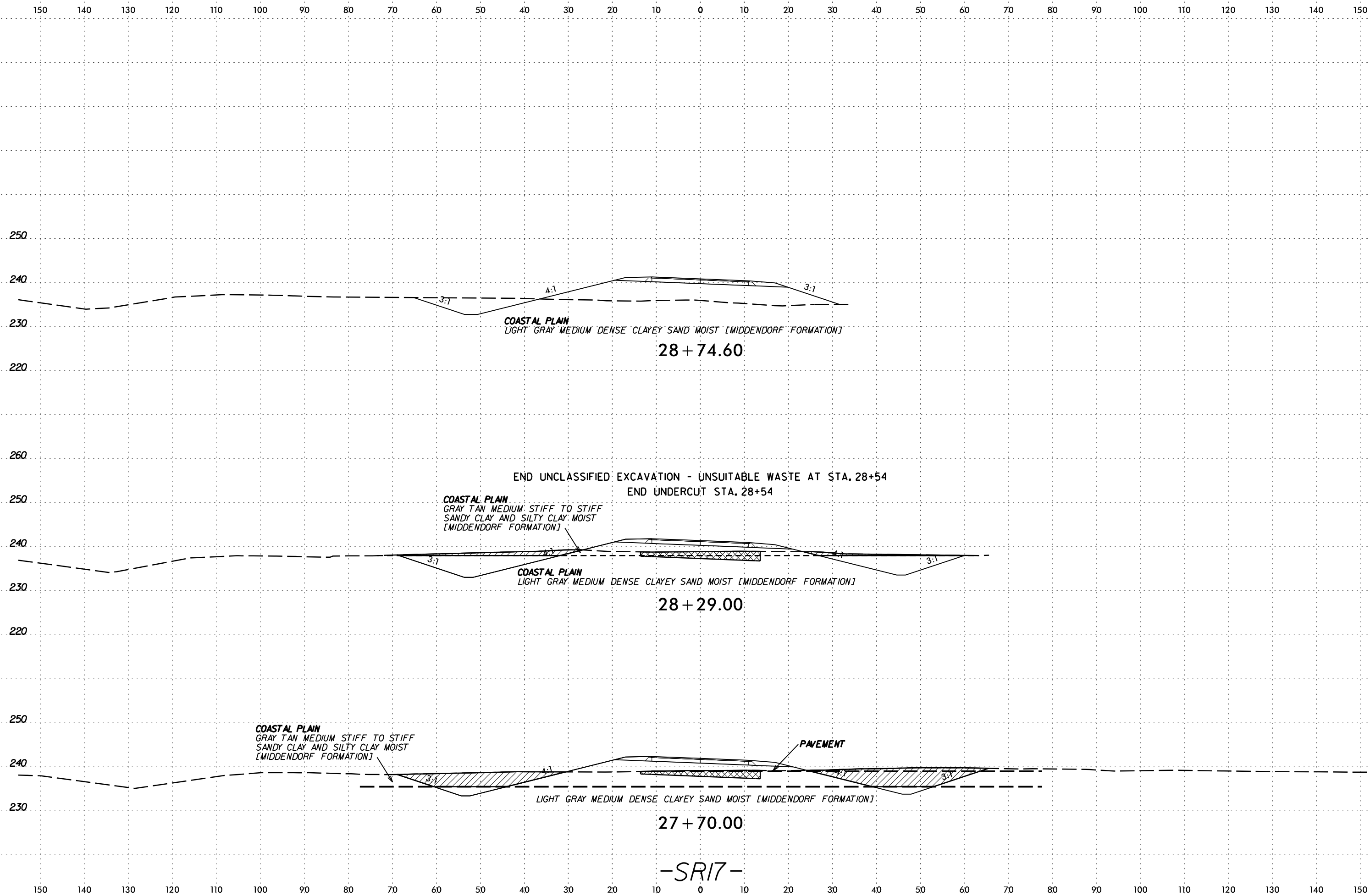
SECTION
CONNECTION
TO
PREVIOUS
SHEET



-SR17-

SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: J. BARRANE

6/23/16



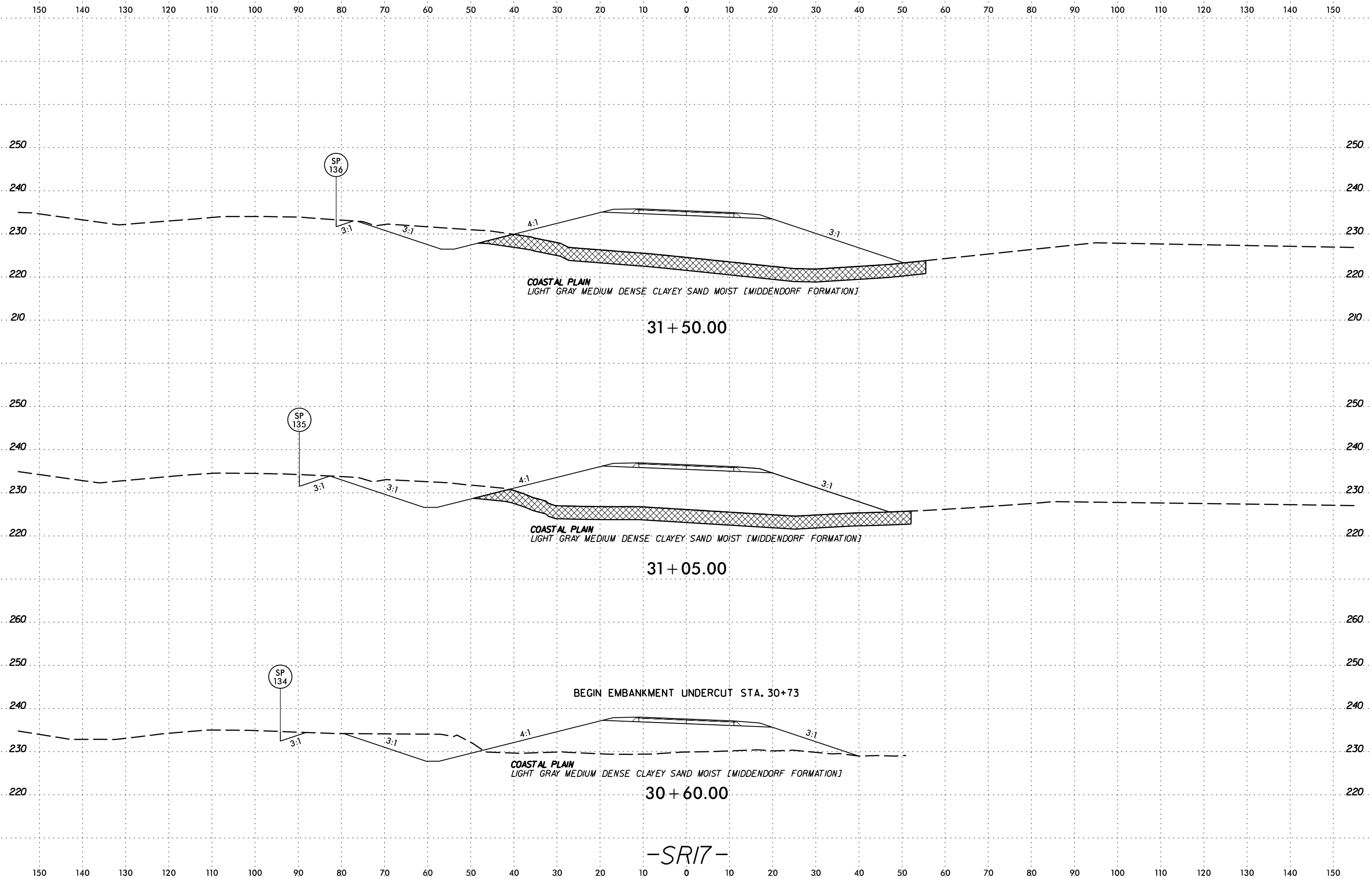
28 + 74.60

28 + 29.00

27 + 70.00

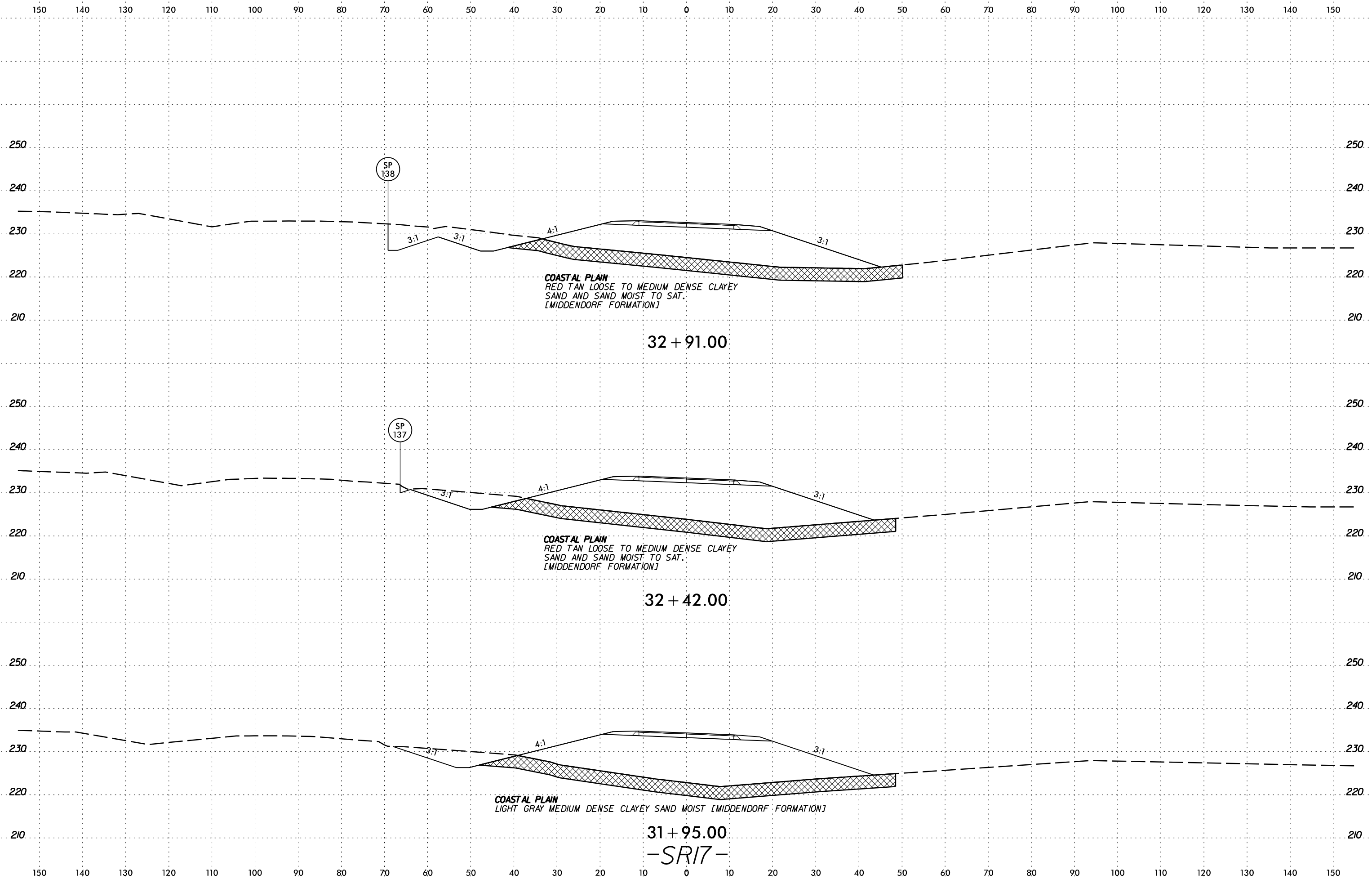
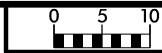
-SR17-

DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN
SHEET NO.: 183
PROJECT: I-5986B



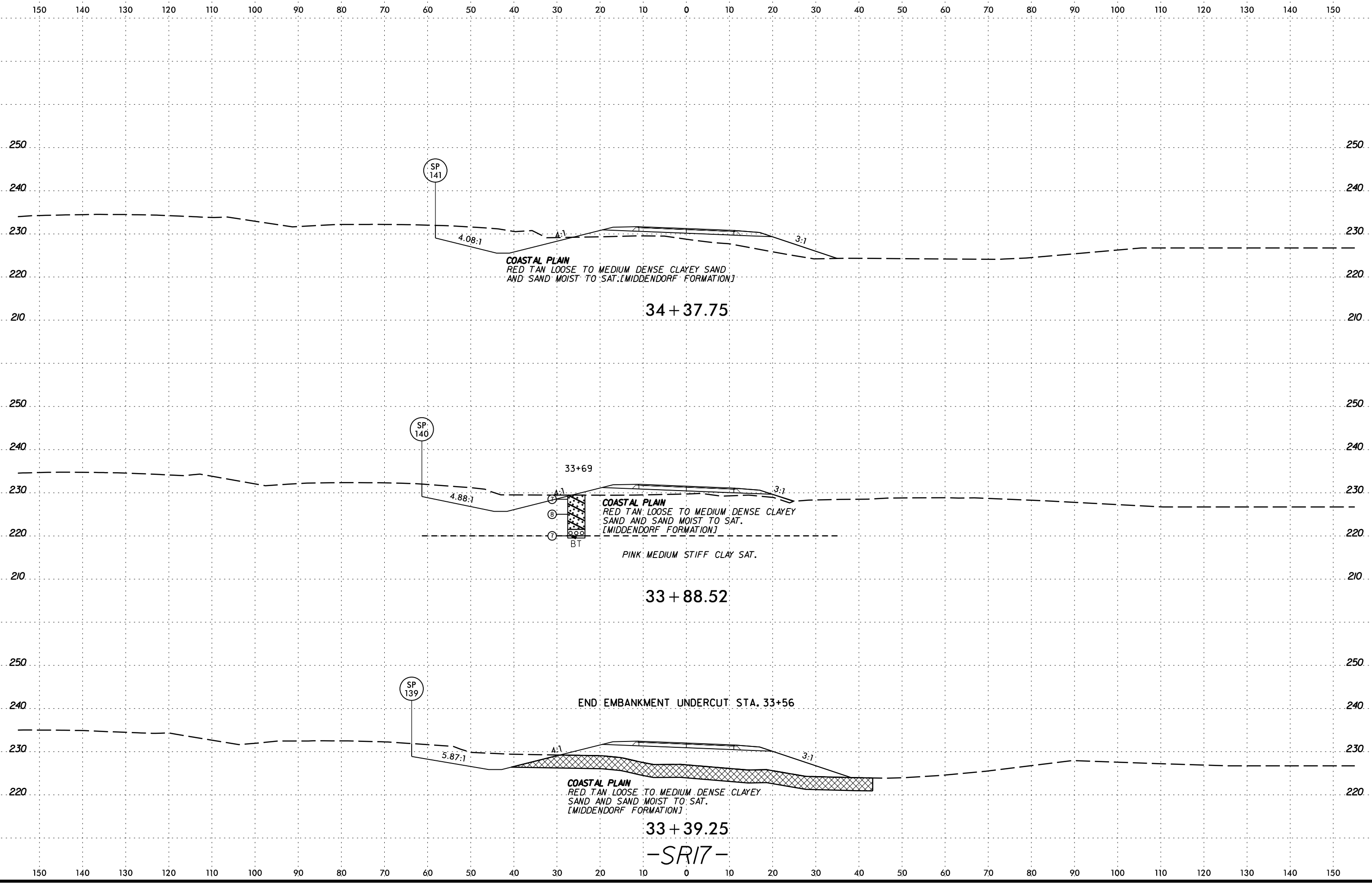
-SR17-

DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN



SYTIME CONSTRUCTION SERVICES

31 + 95.00
-SR17-



VERTICAL SCALE IN FEET

34 + 37.75

33 + 88.52

33 + 39.25

-SR17-

COASTAL PLAIN
RED TAN LOOSE TO MEDIUM DENSE CLAYEY SAND
AND SAND MOIST TO SAT. [MIDDENDORF FORMATION]

COASTAL PLAIN
RED TAN LOOSE TO MEDIUM DENSE CLAYEY
SAND AND SAND MOIST TO SAT.
[MIDDENDORF FORMATION]

PINK MEDIUM STIFF CLAY SAT.

COASTAL PLAIN
RED TAN LOOSE TO MEDIUM DENSE CLAYEY
SAND AND SAND MOIST TO SAT.
[MIDDENDORF FORMATION]

END EMBANKMENT UNDERCUT STA. 33+56

33+69

SP 141

SP 140

SP 139

4.08:1

4:1

3:1

4.88:1

4:1

3:1

5.87:1

4:1

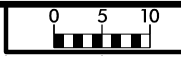
3:1

(B)

(T)

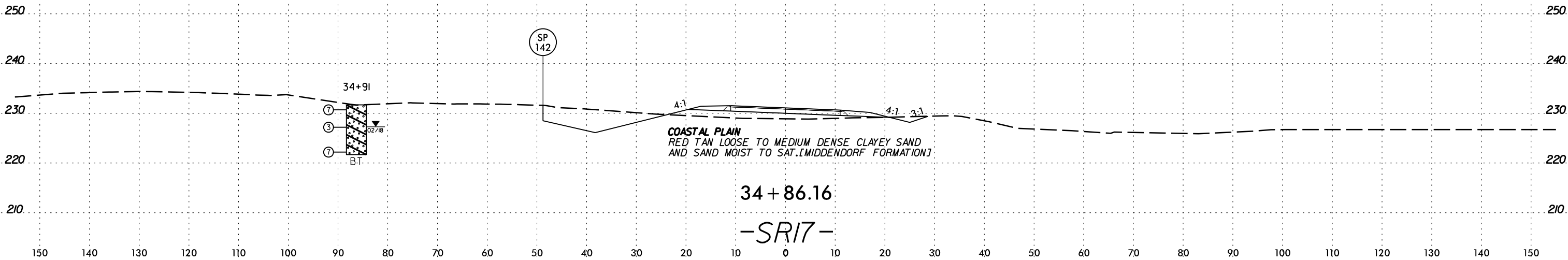
BT

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
I-5986B	187

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



DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 PROJECT: I-5986B