

REFERENCE: R-5709C

PROJECT: 50205

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5709C	1	

ROADWAY SUBSURFACE INVESTIGATION

COUNTY HOKE
PROJECT DESCRIPTION NC 211 WIDENING FROM 0.4
MILES NORTH OF SR 1225 (ASHEMONT RD.) TO
EAST OF SR 1244 (W. PALMER ST.) /SR 1311
(MOCKINGBIRD HILL RD.) IN RAEFORD

INVENTORY

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-Y11B-	10+00 - 13+62	11
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-Y11E-	10+00 - 13+12	12
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-DR8-	10+00 - 12+62	18
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-Y10-	14+00 - 19+00	211
-Y11-	12+00	212
-Y11A-	10+50	213
-Y11B-	11+50 - 12+50	214
-Y11C-	10+50	215
-Y11D-	10+50 - 12+50	216
-Y11E-	12+00	217
-Y12A-	12+00 - 17+00	218
-Y13-	10+50 - 17+50	219 - 220
-Y14-	12+50 - 15+00	221
-Y15-	13+00 - 15+00	222
-Y16-	16+50 - 18+50	223
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-Y21-	11+00 - 12+50	229
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APPENDENCIES

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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.

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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

P. NEUMANN

M. METRY

P. CARY

F&ME PERSONNEL

INVESTIGATED BY RK&K

DRAWN BY M. METRY

CHECKED BY J. BATTS

SUBMITTED BY RK&K

DATE SEPTEMBER 2024

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Raleigh, North Carolina 27615-3960
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

Table with 4 main columns: SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, and TERMS AND DEFINITIONS. It contains detailed technical specifications, symbols, and abbreviations for geotechnical engineering.

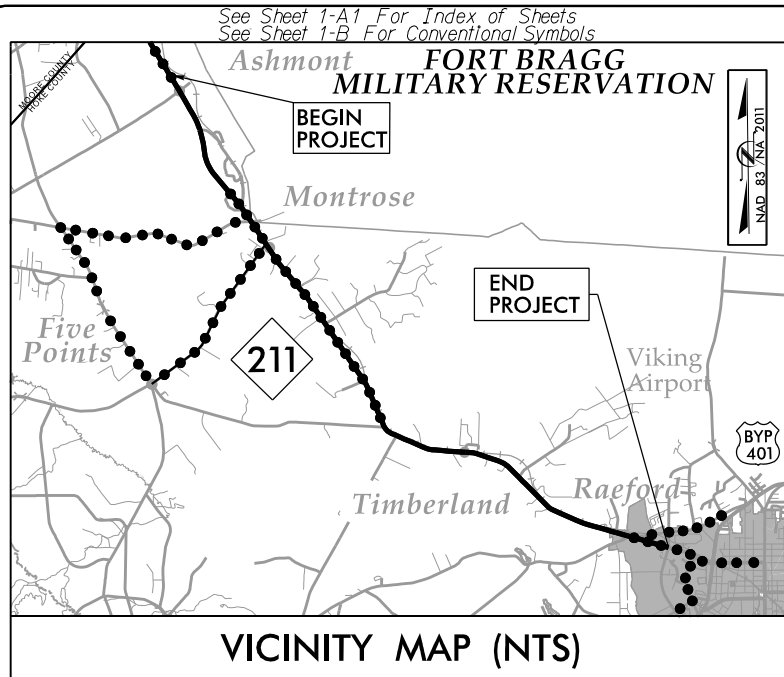
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5709C	3	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
50205.1.4		PE	
50205.2.1		ROW	
50205.2.2		UTILITIES	
50205.3.4		CONSTRUCTION	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

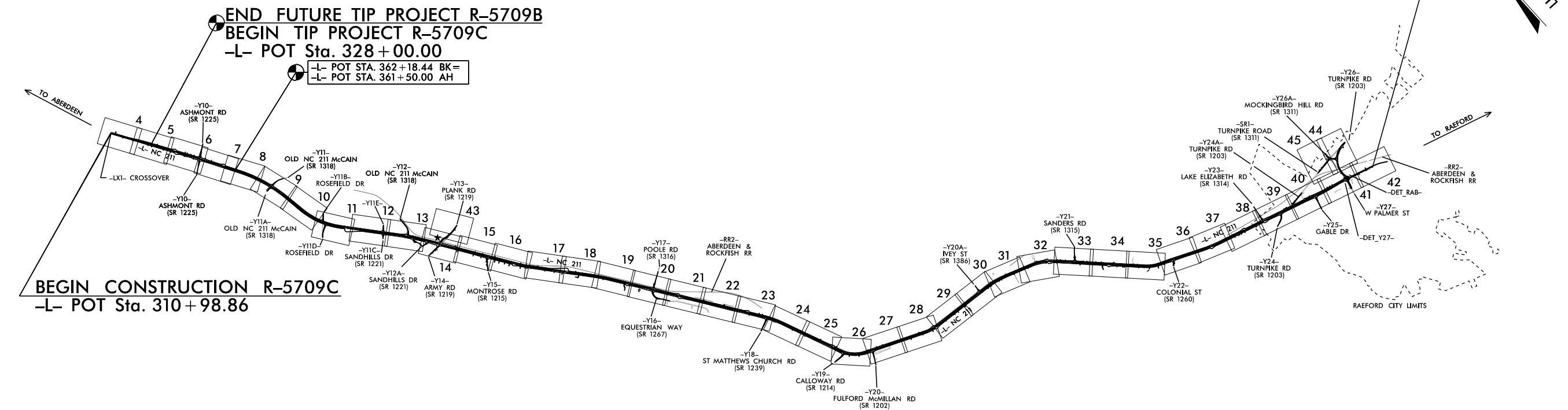
HOKE COUNTY

LOCATION: NC 211 FROM 0.40 MILES NORTH OF SR 1225 (ASHEMONT ROAD) TO EAST OF SR 1244 (WEST PALMER STREET)/SR 1311 (MOCKINGBIRD HILL ROAD) IN RAEFORD.

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNALS



VICINITY MAP (NTS)



END TIP PROJECT R-5709C
-L2B- POC Sta. 835 + 30.00

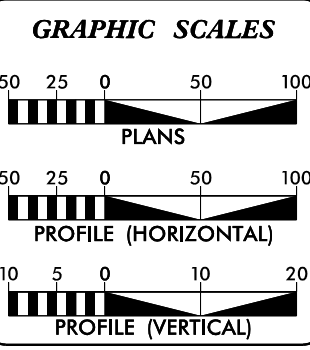
END FUTURE TIP PROJECT R-5709B
BEGIN TIP PROJECT R-5709C
-L- POT Sta. 328 + 00.00
-L- POT STA. 362 + 18.44 BK=
-L- POT STA. 361 + 50.00 AH

BEGIN CONSTRUCTION R-5709C
-L- POT Sta. 310 + 98.86

NOTE:
1. THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

★ PROPOSED SIGNAL

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



DESIGN DATA

ADT 2024 =	16,400
ADT 2044 =	23,400
K =	9%
D =	60%
T =	21% *
V =	60 MPH
* TTST =	16% DUAL 5%
FUNC CLASS =	MINOR ARTERIAL
REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5709C.....	9.608 miles
LENGTH STRUCTURE TIP PROJECT R-5709C.....	0.000 miles
TOTAL LENGTH OF PROJECT R-5709C.....	9.608 miles

NCDOT CONTACT

Terry E. Farr, PE
PROJECT MANAGER

PLANS PREPARED BY:

RK&K
8401 Six Forks Road, Forum 1 Suite 700
RALEIGH, NORTH CAROLINA 27615-3960
NC LICENSE NO. F-0112
1-888-521-4455 OR 919-878-9560

FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 23, 2021

LETTING DATE:
JANUARY 21, 2025

Brandon McInnis, PE
PROJECT ENGINEER

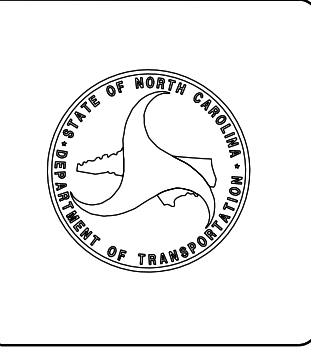
Mary Mays Yahl, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____

ROADWAY DESIGN ENGINEER

SIGNATURE: _____



TIP PROJECT: R-5709C
CONTRACT: C204934



September 3, 2024

WBS Number: 50205.1.1

TIP Number: R-5709C

County: Hoke

Description: NC 211 Widening from 0.4 miles north of SR 1225 (Ashemont Road) to east of SR 1244 (West Palmer Street) / SR 1311 (Mockingbird Hill Road) in Raeford

Subject: Roadway Subsurface Inventory Report

PROJECT DESCRIPTION

The proposed project consists of improvements to NC-211, including widening, grading, drainage, resurfacing, and signals. The proposed project is approximately 9.6 miles in length. It begins 0.4 miles north of SR 1225 (Ashemont Road) and ends east of SR 1244 (West Palmer Street) / SR 1311 (Mockingbird Hill Road) in Hoke County, NC.

The geotechnical investigation for R-5709C was performed during December 2019 and May & June 2020. During this time, a total of 280 Standard Penetration Test (SPT) borings, and 8 auger probe borings were drilled. The SPT borings were advanced with an ATV mounted CME 550X drill rig and a trailer mounted CME 45B drill rig, both equipped with automatic hammers. Auger probe borings were advanced using a hand auger. Representative soil samples were collected from the split spoon and soil cuttings for field visual classification and laboratory testing.

The following alignments were investigated. Selected cross sections of these alignments are included in this report.

<u>Line</u>	<u>Stations (±)</u>
-L-	310+99 – 824+26
-LX1-	10+00 – 26+19
-L2B-	824+26 – 835+30
-RAB_L2-	10+00 – 14+02
-Y10-	12+92 – 19+75
-Y11-	10+00 – 12+45
-Y11A-	10+25 – 12+66
-Y11B-	10+00 – 13+25
-Y11C-	10+15 – 12+33
-Y11D-	10+00 – 15+73
-Y11E-	10+00 – 13+00
-Y12-	10+00 – 12+00
-Y12A-	9+98 – 18+31
-Y13-	10+00 – 19+15
-Y14-	10+95 – 16+23
-Y15-	11+75 – 15+69
-Y16-	14+50 – 19+33
-Y17-	10+00 – 13+25

<u>Line</u>	<u>Stations (±)</u>
-Y18-	12+25 – 15+77
-Y19-	10+75 – 15+48
-Y20-	12+85 – 15+89
-Y20A-	10+00 – 11+25
-Y21-	10+00 – 12+75
-Y22-	10+50 – 12+58
-Y23-	10+00 – 12+25
-Y24-	11+65 – 15+83
-Y25-	14+00 – 15+99
-Y26-	10+00 – 26+00
-Y26A-	9+99 – 15+50
-Y27-	10+00 – 13+86
-SR1-	15+00 – 17+77
-DR7-	10+50 – 12+42
-DR8-	10+60 – 12+62
-DR10-	10+00 – 13+22

PHYSIOGRAPHY AND GEOLOGY

The proposed project is located in the Coastal Plain Physiographic Province. The terrain within and around the project is flat to gently rolling hills. The land surrounding the proposed roadway is typically agricultural or forested, but there are a few locations with swamps on one or both sides of the existing roadway. Topographic relief along the length of the project alignment ranges in elevation from 277.2 feet to 507.2 feet.

The proposed project is underlain by the Cretaceous-age Middendorf Formation and Tertiary-age Pinehurst Formation. The Middendorf Formation consists of cross-bedded sands, sandstones, and mudstones. The Pinehurst Formation consists of unconsolidated, cross-bedded sands with rhythmic bands of clayey sand. Local surficial soils in the project area are typically classified as undivided coastal plain soils.

A typical soil profile consists of a loose/soft upper layer of sand or clay underlain by more stiff/dense material of the formational Coastal Plain soils. The formational Coastal Plain soils are typically composed of sands and clays. An increase in stiffness/density usually differentiates between undivided Coastal Plain and the underlying formational Coastal Plain soils.

GROUNDWATER PROPERTIES

Some borings were backfilled immediately upon their completion because of safety concerns related to leaving the borings open overnight, but 24-hour stabilized groundwater measurements were taken at the majority of borings. Groundwater was measured at elevations ranging from 279.4' to 436.0'. It should be noted that the groundwater levels fluctuate depending upon seasonal factors such as precipitation and temperature. As such, soil moisture and groundwater conditions at other times may vary or be different from those described in this report. Small intermittent channels exist throughout the project providing drainage during heavy rainfall events. Some channels are spring fed while others appear to be artificial from construction of the existing roadway.

SOIL PROPERTIES

Soils encountered during the geotechnical investigation are separated into five categories based on origin. The origins consist of roadway embankment, artificial fill, alluvial soils, undivided coastal plain, and Coastal Plain.

Materials interpreted as roadway embankment were encountered within the limits of the existing NC 211 alignment and intersecting roads. The roadway embankment consists of very loose to dense, non-plastic silty to moderately plastic (PI = 4-18) clayey fine to coarse SAND (A-2-4, A-2-5, A-2-6, A-2-7, A-3) and medium stiff to very stiff, sandy to silty moderately to highly plastic (PI = 17-29) CLAY (A-6, A-7-5, A-7-6). Encountered roadway embankment was up to 32 feet thick.

Materials interpreted as artificial fill were encountered within the proposed project. Encountered artificial fill was up to 3 feet thick and consisted of loose, non-plastic, silty fine to coarse SAND (A-2-4).

Alluvial soils were encountered in the proposed project. They are composed of very loose, silty fine to coarse SAND (A-2-4); very soft, non-plastic, fine to coarse sandy SILT (A-4); and very soft, fine to coarse sandy to clayey MUCK with 13.9 to 30.8 percent organic matter. Encountered alluvial soils were up to 12 feet thick.

Soils classified as undivided coastal plain are located throughout the project and generally consist of very loose to dense, non-plastic silty to moderately plastic (PI = 5-25) clayey fine to coarse SAND (A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-3); very soft to very stiff, non-plastic fine to coarse sandy to slightly plastic (PI = 4-10) clayey SILT (A-4, A-5); and soft to hard, fine sandy to silty slightly to highly plastic (PI = 11-36) CLAY (A-6, A-7-5, A-7-6). The encountered undivided coastal plain soils were up to 18 feet thick.

Formational Coastal Plain soils are located throughout the project and generally consist of very loose to dense, non-plastic silty to moderately plastic (PI = 4-16) clayey fine to coarse SAND (A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-3); soft to stiff, fine sandy to clayey SILT (A-4, A-5); and soft to hard, fine to coarse sandy to silty slightly to moderately plastic (PI = 7-23) CLAY (A-6, A-7-5, A-7-6). The encountered undivided coastal plain soils were up to 35 feet thick.

AREAS OF SPECIAL GEOTECHNICAL INTEREST

Alluvial Soils: The following areas contain alluvial soils:

<u>Line</u>	<u>Stations (±)</u>	<u>Offset</u>
-L-	418+50 – 419+25	RT
-L-	498+80 – 499+69	RT
-L-	557+75 – 559+75	LT & RT
-L-	559+75 – 561+25	RT
-L-	564+75 – 565+50	RT
-L-	565+50 – 566+75	LT & RT
-L-	566+75 – 567+05	RT
-L-	731+19 – 733+43	RT
-L-	737+81 – 739+69	RT
-L-	740+02 – 741+59	RT

Artificial Fill: The following areas contain artificial fill:

<u>Line</u>	<u>Stations (±)</u>	<u>Offset</u>
-L-	434+10 – 435+48	RT
-L-	436+54 – 437+21	LT
-L-	450+67 – 451+85	LT & RT
-Y12A-	11+55 – 12+69	LT & RT
-Y12A-	15+60 – 17+74	LT & RT

Highly Plastic Soils: The following areas contain soils with plasticity indices (PI) greater than 20 within proposed cut sections and within 3-ft of subgrade:

<u>Line</u>	<u>Stations (±)</u>	<u>Offset</u>
-L-	429+75 – 431+25	LT
-L-	653+75 – 655+50	LT & RT
-L-	655+50 – 658+25	LT
-L-	693+25 – 698+25	LT & RT
-L-	700+25 – 705+25	RT
-L-	756+25 – 767+25	LT & RT
-L-	778+25 – 784+25	LT & RT
-L-	811+25 – 821+25	LT & RT
-L-	827+25 – 830+25	LT & RT
-Y24-	12+50 – 14+25	LT & RT
-Y26-	21+25 – 25+50	LT & RT
-Y26A-	11+25 – 14+25	LT & RT

Organic Soils: The following areas contain moderately to highly organics soils associated with wetlands or alluvial deposits. These soils have the potential to cause embankment/subgrade and/or slope stability problem during construction.

<u>Line</u>	<u>Stations (±)</u>	<u>Offset</u>
-L-	557+75 – 559+75	LT & RT
-L-	559+75 – 561+25	RT
-L-	564+75 – 565+50	RT
-L-	565+50 – 566+75	LT & RT
-L-	566+75 – 567+05	RT

Groundwater: Groundwater was encountered within **six (6) feet** of proposed subgrade at the following locations:

<u>Line</u>	<u>Stations (±)</u>	<u>Offset</u>
-L-	676+75 – 686+50	LT & RT
-L-	686+55 – 690+50	LT
-L-	690+50 – 693+00	LT & RT
-L-	693+00 – 695+00	RT
-L-	695+00 – 708+00	LT & RT
-L-	708+00 – 709+75	RT

<u>Line</u>	<u>Stations (±)</u>	<u>Offset</u>
-L-	709+75 – 726+25	LT & RT
-L-	727+75 – 731+50	LT & RT
-L-	731+50 – 733+25	RT
-L-	735+75 – 742+25	LT & RT
-L-	742+25 – 748+50	LT & RT
-L-	751+75 – 758+25	LT & RT
-L-	769+75 – 772+25	LT & RT
-Y17-	10+75 – 11+50	LT & RT
-Y17-	11+50 – 12+50	LT & RT
-Y18-	12+25 – 15+50	LT & RT
-Y21-	10+75 – 12+75	LT & RT
-Y24-	11+65 – 15+83	LT & RT
-Y25-	14+00 – 15+50	LT & RT

Ponds: A pond is located near the proposed embankment at the following location:

<u>Line</u>	<u>Stations (±)</u>	<u>Offset</u>
-L-	666+37 – 666+59	RT

Water Wells: Water wells are located near the proposed embankment at the following locations:

<u>Line</u>	<u>Station</u>	<u>Offset (ft)</u>
-L-	336+34	225' RT
-L-	454+06	74 RT
-L-	576+88	122' LT
-L-	742+56	88 RT

Prepared by,

Maxime Metry, PE
 Project Engineer I, Geotechnical
 Registered, North Carolina 056190

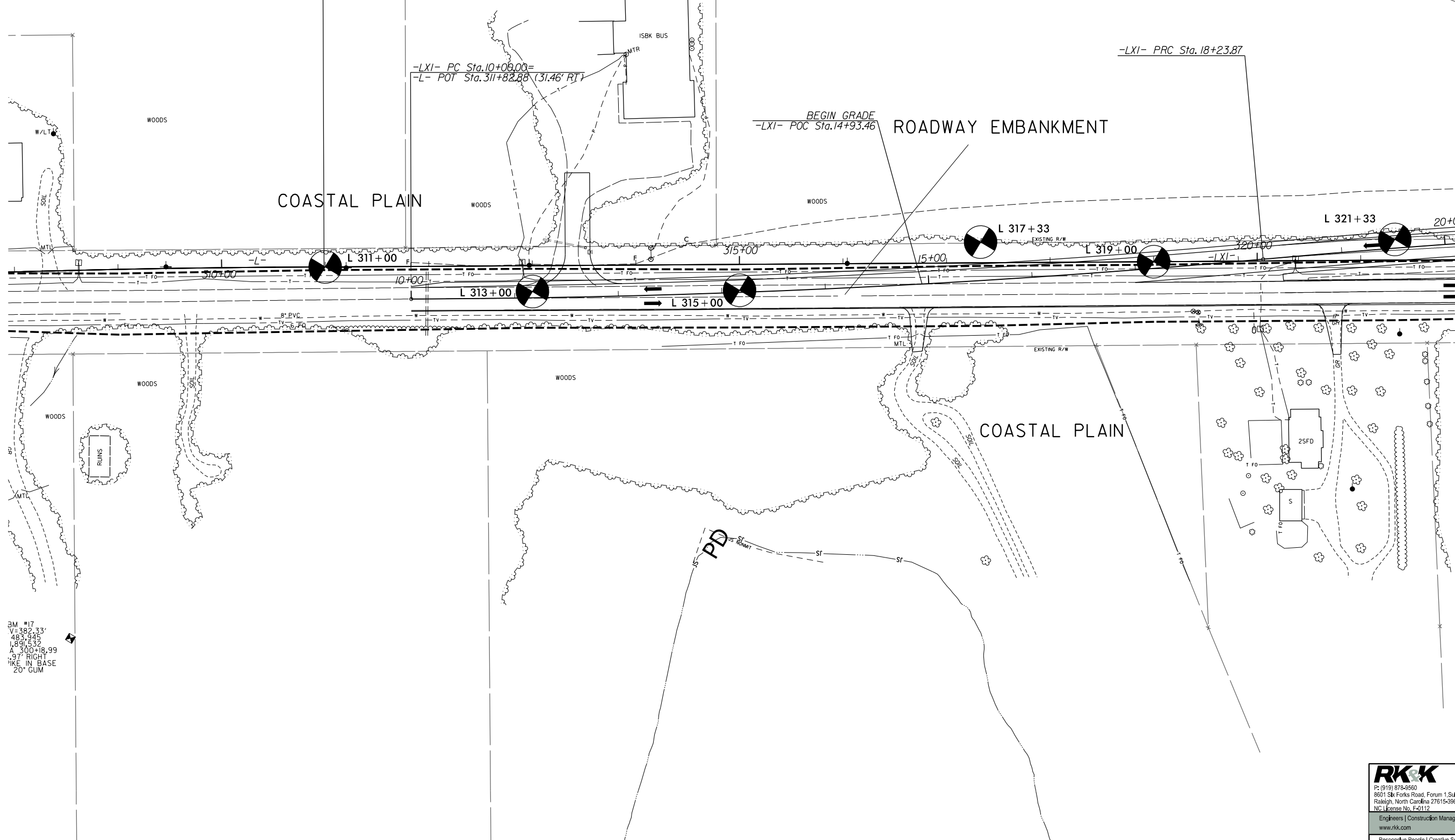
Atefeh Asoudeh
 Atefeh Asoudeh, PE
 Project Manager, Geotechnical

PROJECT REFERENCE NO. R-5709C	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

BEGIN CONSTRUCTION

-L- Sta. 310+98.86



MATCHLINE -L- STA. 322 + 00.00
SEE SHEET 5

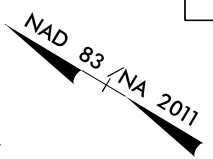
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V=382.33'
483.945
1.891532
A=300+18.99
.97' RIGHT
1/4" = 20' GUM

8/17/09
R:\2024\Tech\InvestigationDesign\CADD_GEO\TECH\Plan\Prof\IR-5709C\IR-5709C.GEO.psh04.dgn

PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. 5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

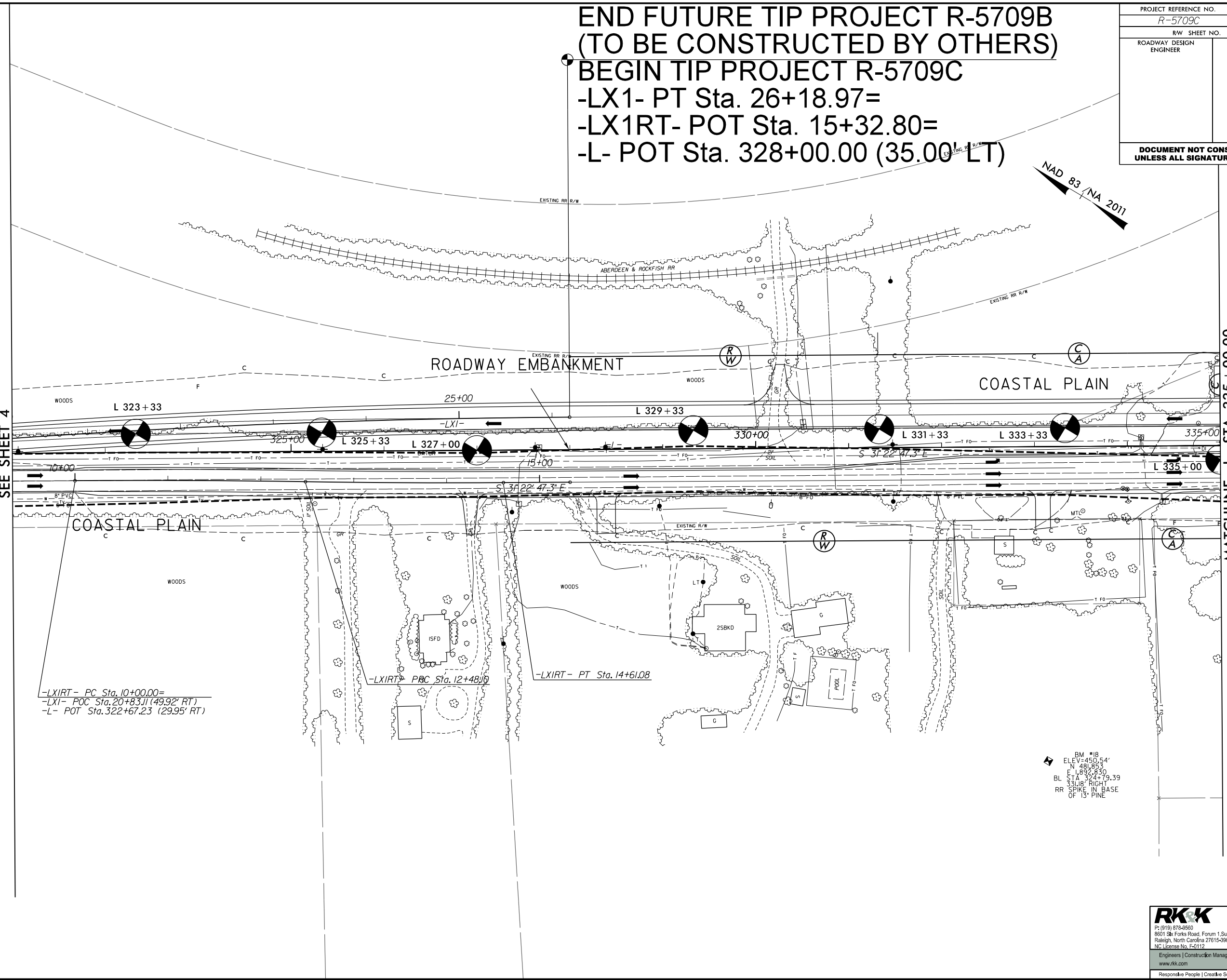
**END FUTURE TIP PROJECT R-5709B
(TO BE CONSTRUCTED BY OTHERS)
BEGIN TIP PROJECT R-5709C**

- LX1- PT Sta. 26+18.97=
- LX1RT- POT Sta. 15+32.80=
- L- POT Sta. 328+00.00 (35.00' LT)



MATCHLINE -L- STA. 322 + 00.00
SEE SHEET 4

MATCHLINE -L- STA. 335 + 00.00
SEE SHEET 6



-LX1RT- PC Sta. 10+00.00=
-LX1- POC Sta. 20+83.11 (49.92' RT)
-L- POT Sta. 322+67.23 (29.95' RT)

-LX1RT- PRC Sta. 12+48.16
-LX1RT- PT Sta. 14+61.08

BM #18
ELEV=450.54'
N 481.853
E 1,852.830
BL STA 324+79.39
33.18" RIGHT
RR SPIKE IN BASE
OF 15" PINE

8/17/09
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8/17/99

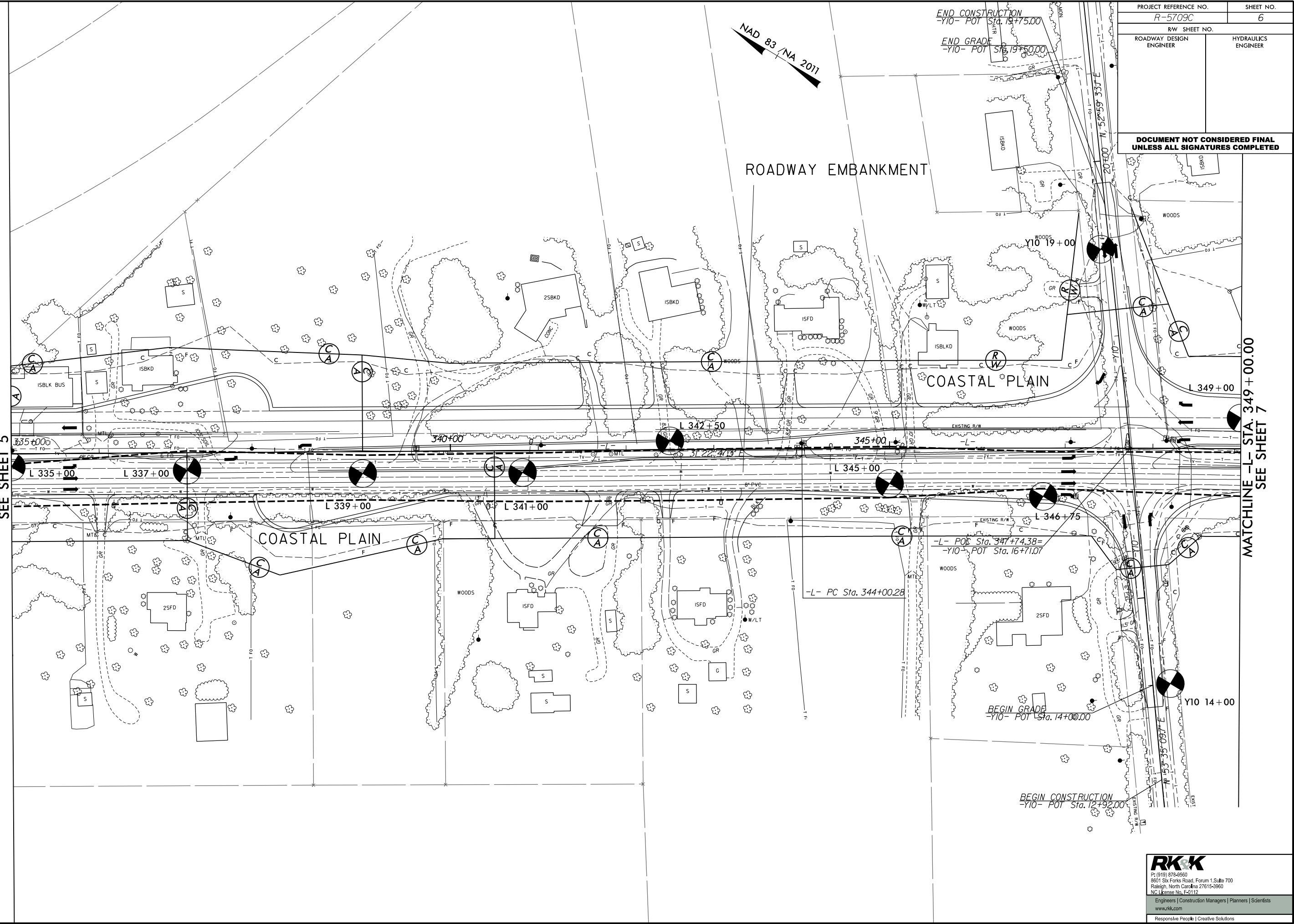
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 6
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
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MATCHLINE -L- STA. 335 + 00.00
SEE SHEET 5

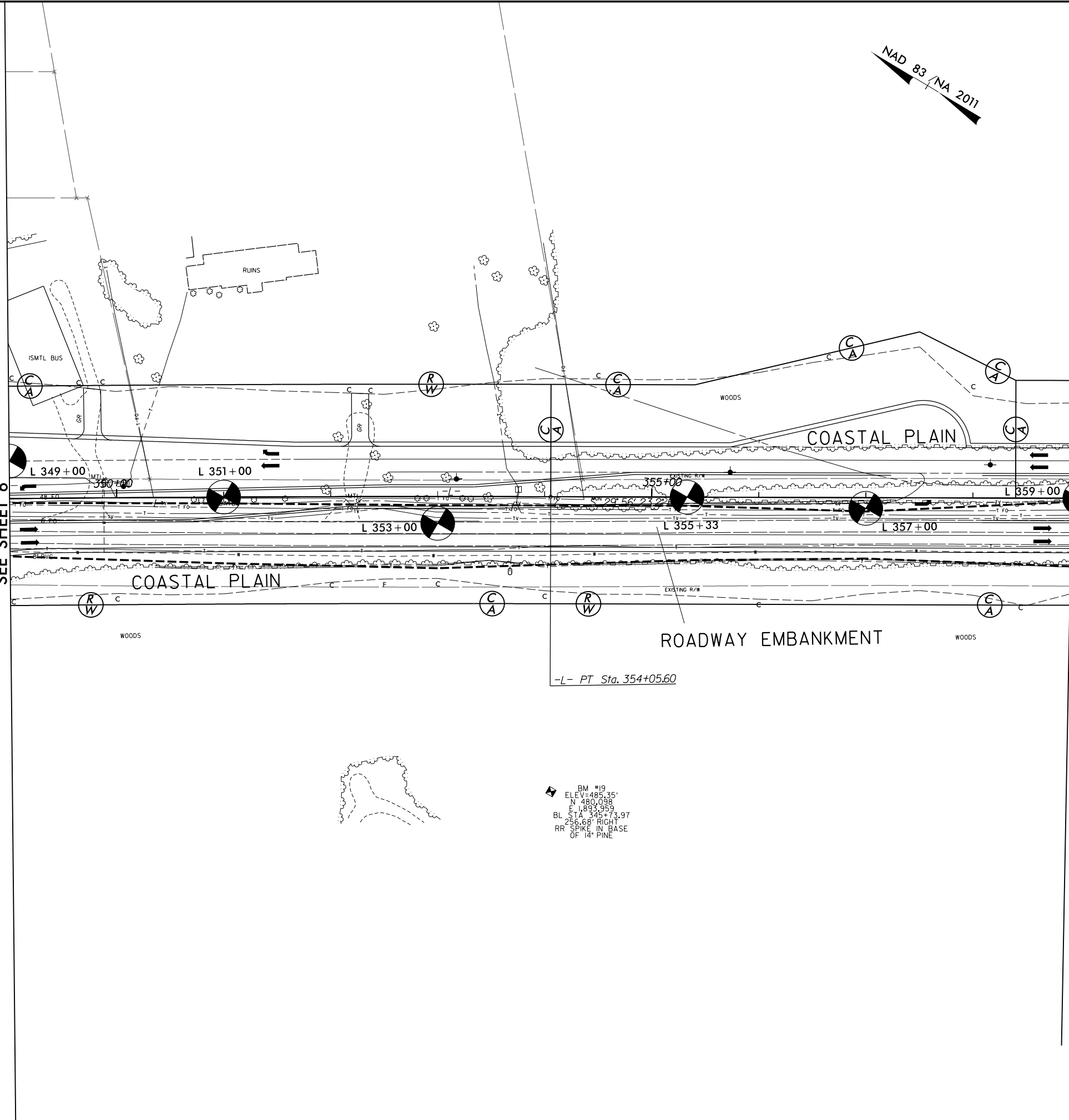
MATCHLINE -L- STA. 349 + 00.00
SEE SHEET 7



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MATCHLINE -L- STA. 349 + 00.00
SEE SHEET 6

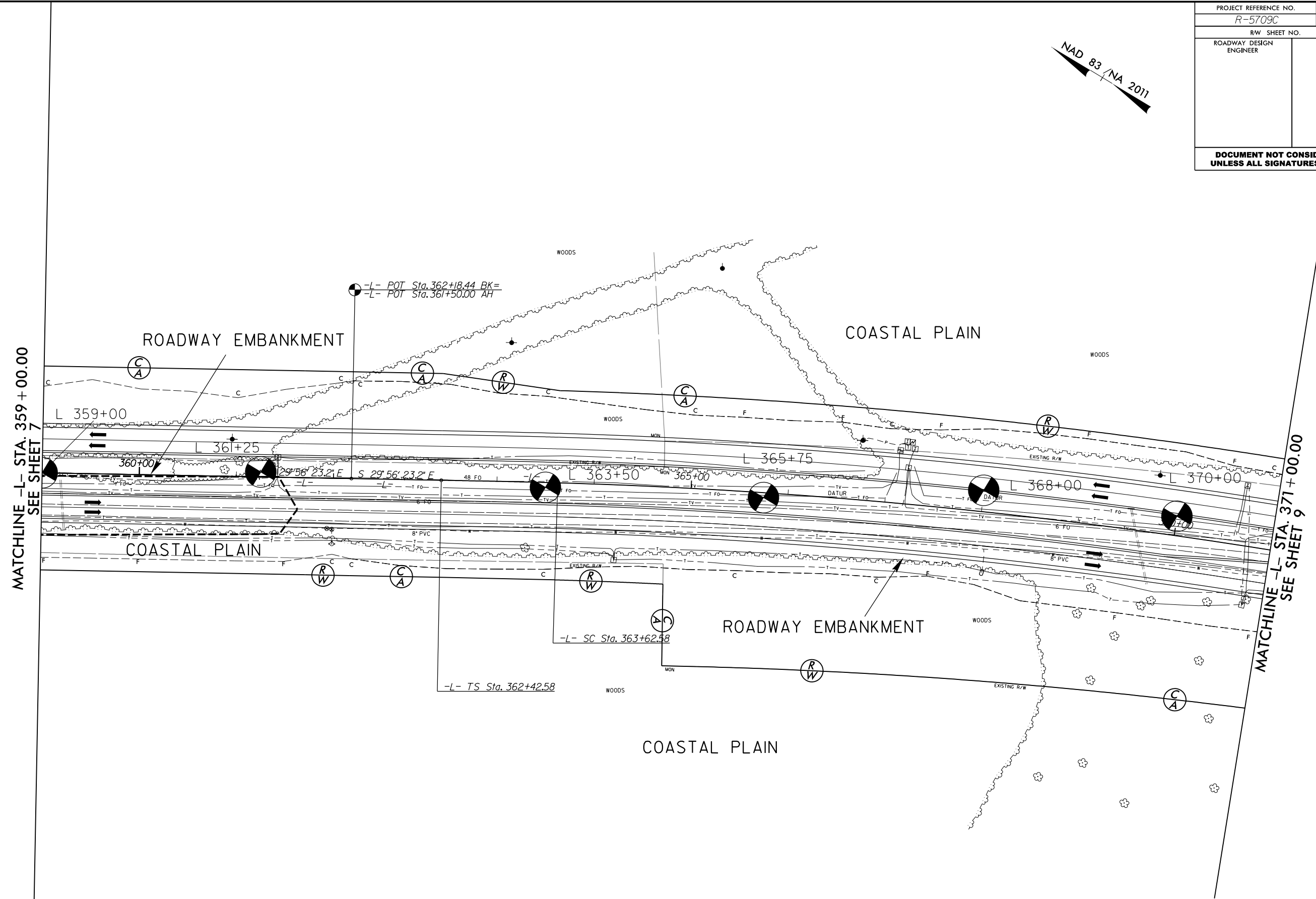
MATCHLINE -L- STA. 359 + 00.00
SEE SHEET 8



PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROJECT REFERENCE NO. R-5709C	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011



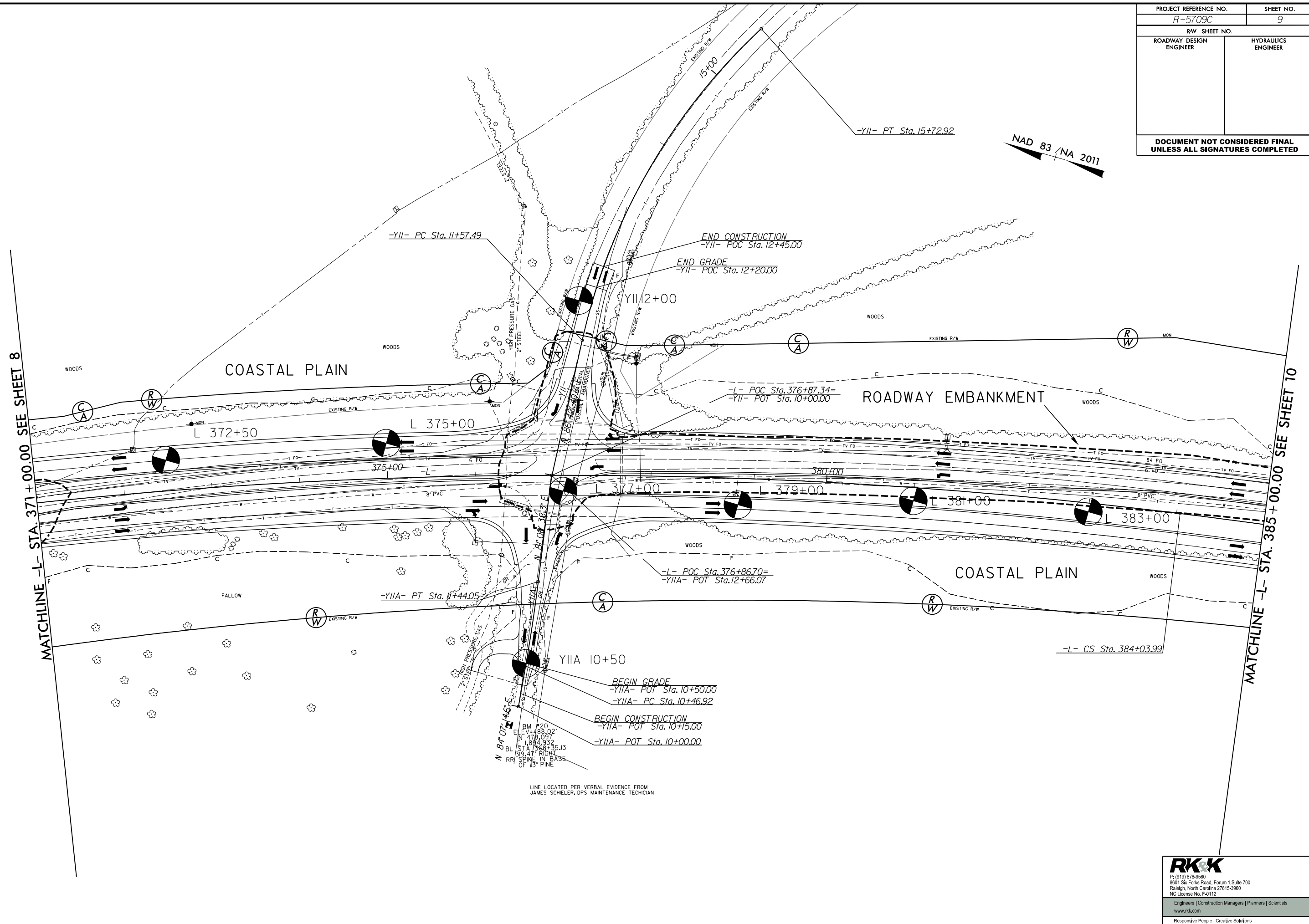
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PROJECT REFERENCE NO.	SHEET NO.
R-5709C	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

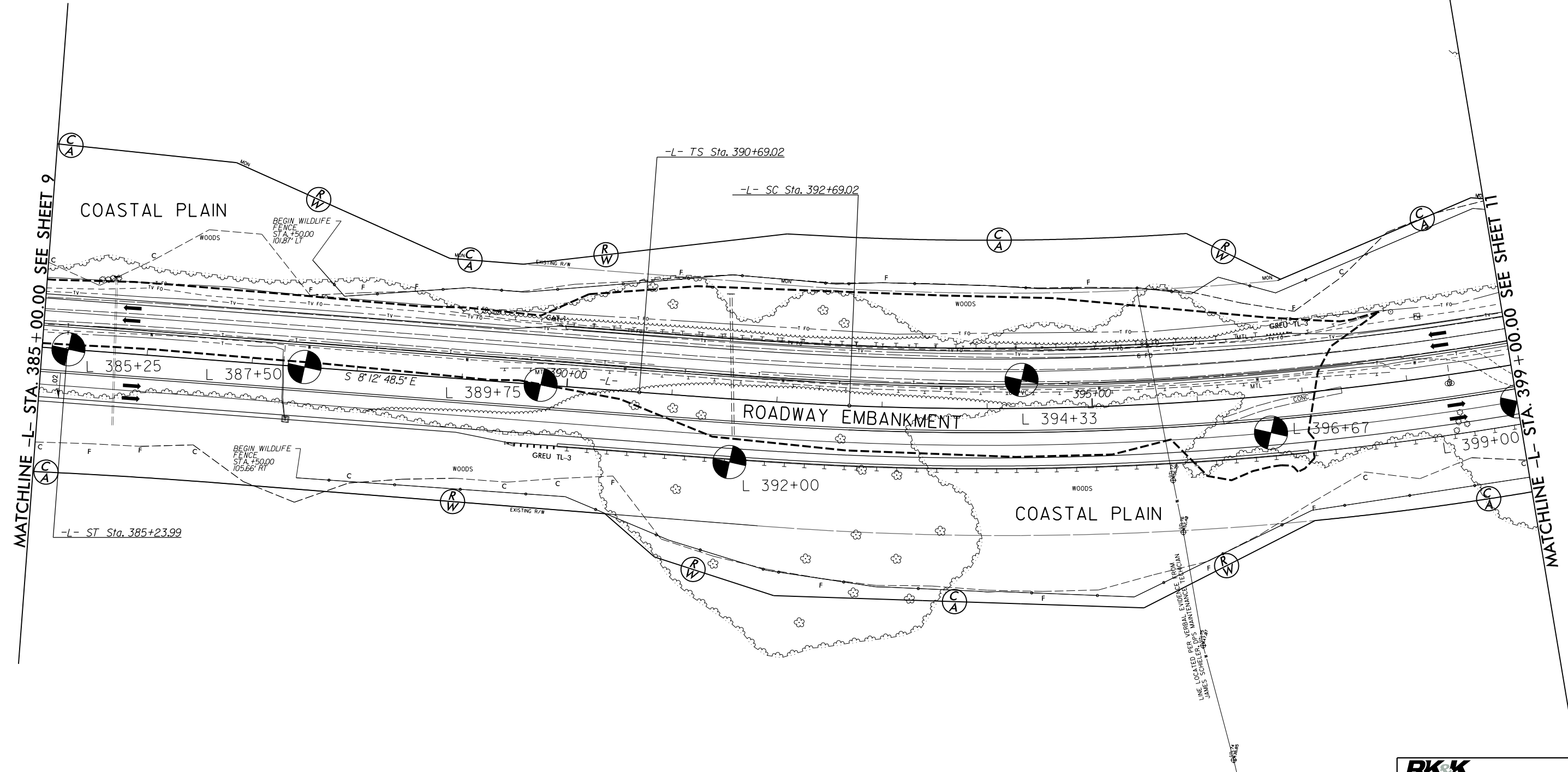
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8/29/2024
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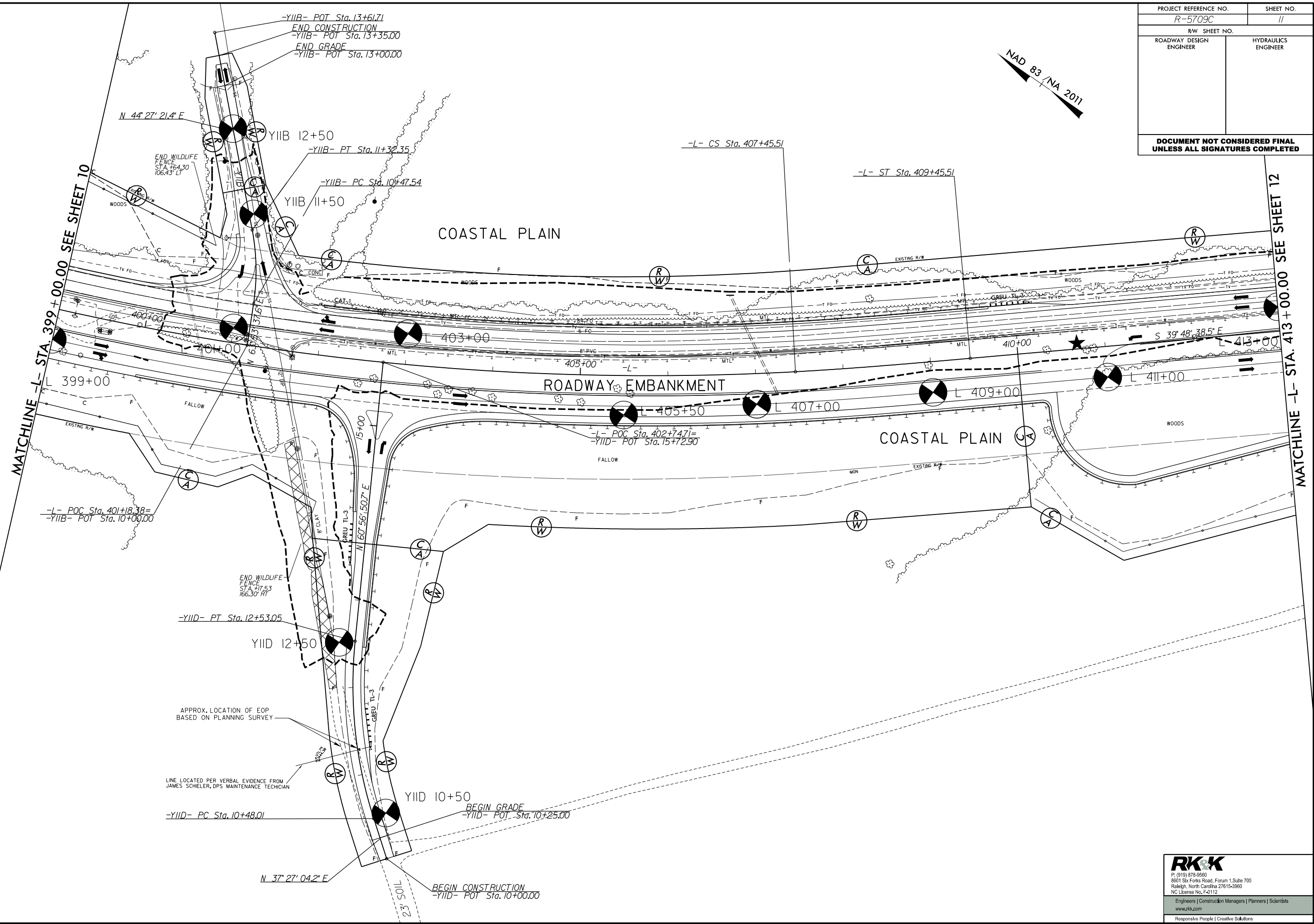
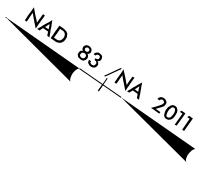
PROJECT REFERENCE NO. R-5709C		SHEET NO. 10	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



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PROJECT REFERENCE NO. R-5709C	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA. 399+00.00 SEE SHEET 10

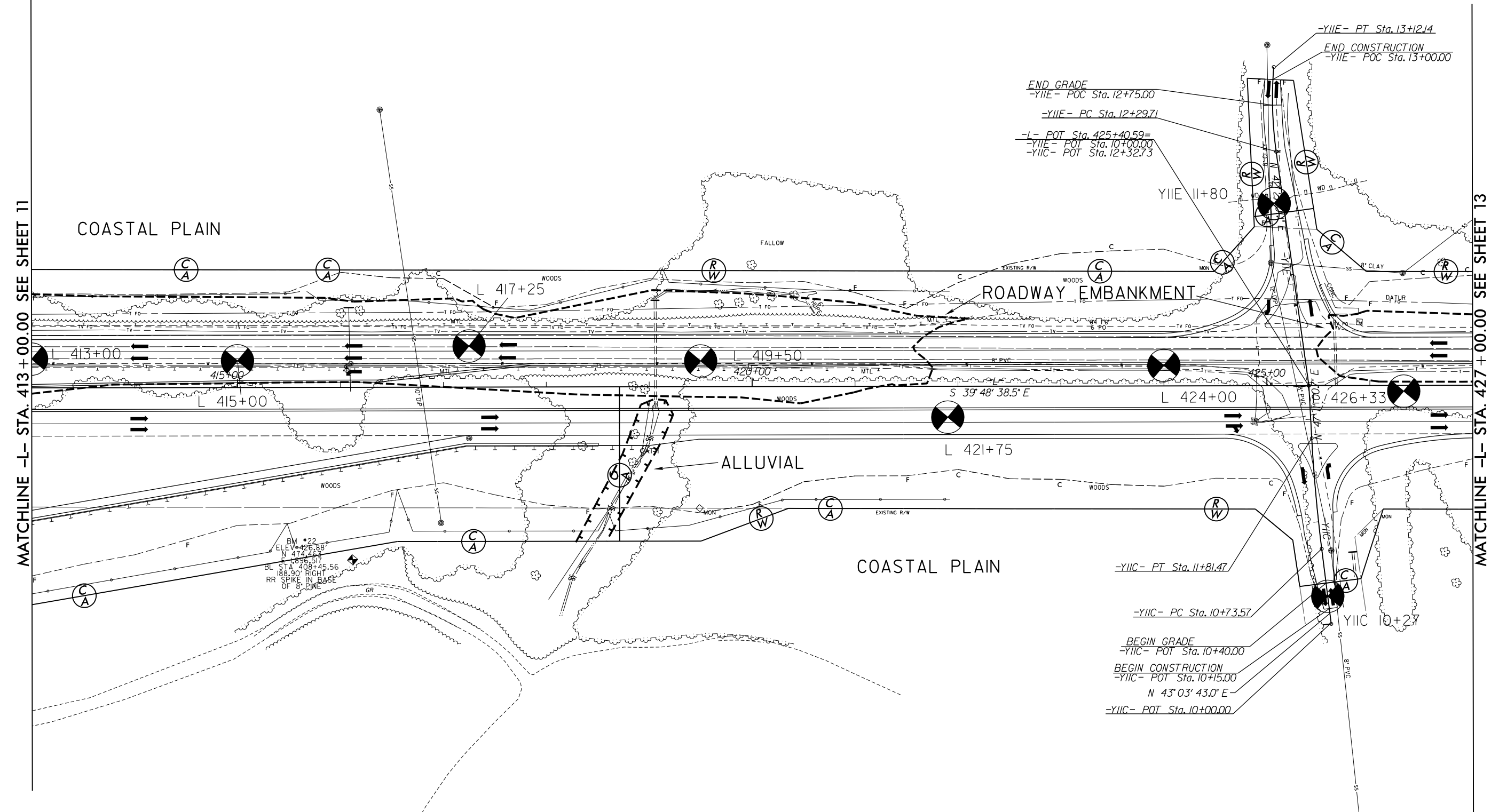
MATCHLINE -L- STA. 413+00.00 SEE SHEET 12

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8/29/2024
psh11

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PROJECT REFERENCE NO. R-5709C	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011



MATCHLINE -L- STA. 413+00.00 SEE SHEET 11

MATCHLINE -L- STA. 427+00.00 SEE SHEET 13

BM #22
ELEV. 426.88'
N 474.463
BL STA. 408+45.56
188.90' RIGHT
RR SPIKE IN BASE
OF 8' B.M.

8/17/09
R:\2024\InvestigationDesign\CADD_GEO\TECH\Plan\Prof\R-5709C\R5709C_GEO_psh12.dgn

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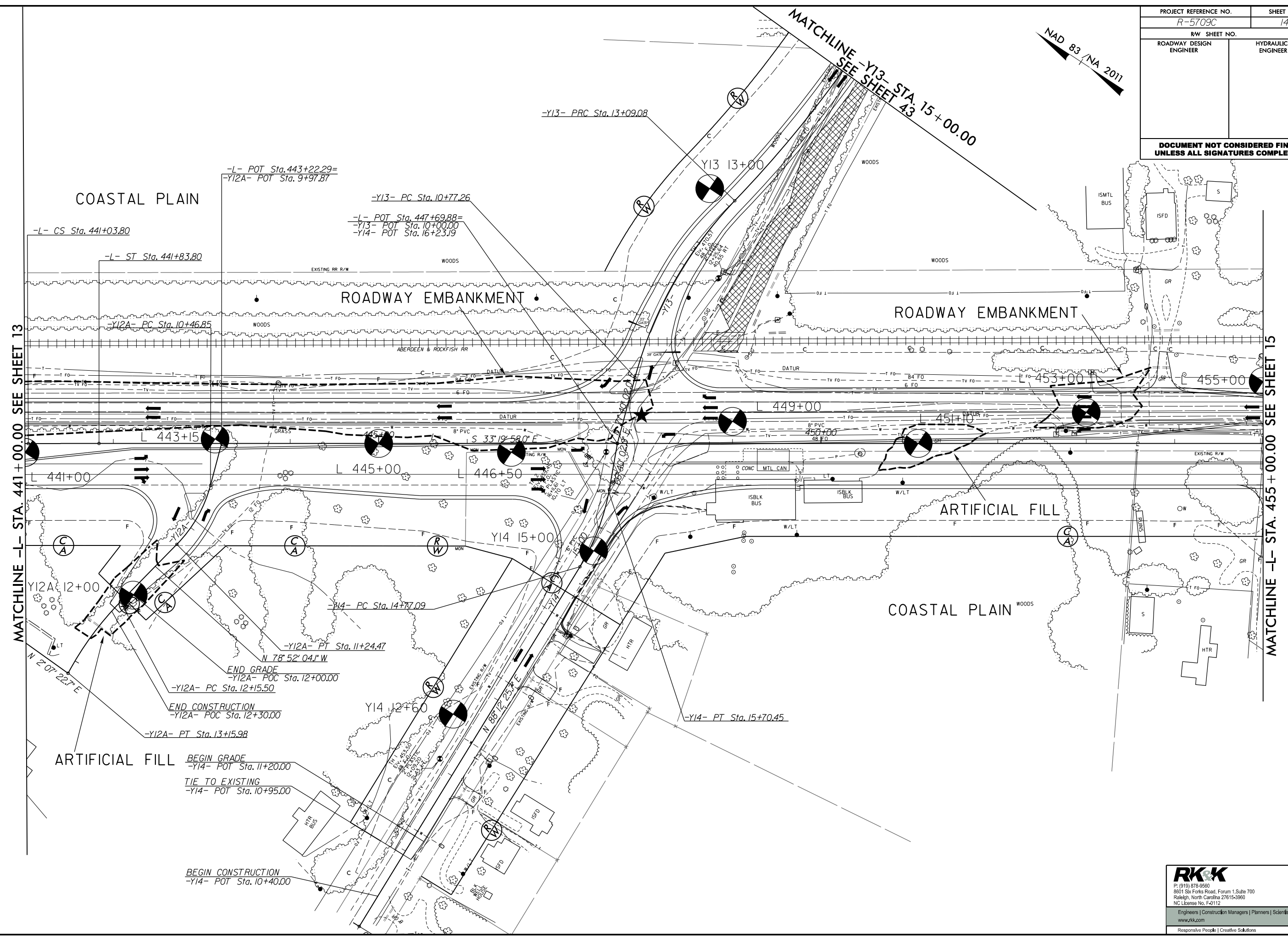
8/17/99

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PROJECT REFERENCE NO. R-5709C	SHEET NO. 14
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

NAD 83 / NA 2011



MATCHLINE -L- STA. 441+00.00 SEE SHEET 13

MATCHLINE -L- STA. 455+00.00 SEE SHEET 15

COASTAL PLAIN

ROADWAY EMBANKMENT

ROADWAY EMBANKMENT

ARTIFICIAL FILL

COASTAL PLAIN

ARTIFICIAL FILL

BEGIN GRADE
-Y14- POT Sta. 11+20.00

TIE TO EXISTING
-Y14- POT Sta. 10+95.00

BEGIN CONSTRUCTION
-Y14- POT Sta. 10+40.00

END CONSTRUCTION
-Y12A- POC Sta. 12+30.00

END GRADE
-Y12A- POC Sta. 12+00.00

-Y12A- PC Sta. 12+15.50

-Y12A- PT Sta. 11+24.47

-Y14- PC Sta. 14+77.09

-Y14- PT Sta. 15+70.45

-Y13- PRC Sta. 13+09.08

-Y13- PC Sta. 10+77.26

-L- POT Sta. 447+69.88=
-Y13- POT Sta. 10+00.00
-Y14- POT Sta. 16+23.19

-L- POT Sta. 443+22.29=
-Y12A- POT Sta. 9+97.87

-L- CS Sta. 441+03.80

-L- ST Sta. 441+83.80

-Y12A- PC Sta. 10+46.85

L 441+00

L 443+15

L 445+00

L 446+50

L 449+00

L 451+10

L 453+00

L 455+00

Y12A 12+00

Y14 15+00

Y14 12+60

Y13 13+00

N 2° 07' 22.7" E

N 78° 52' 04.1" W

N 88° 12' 23.7" E

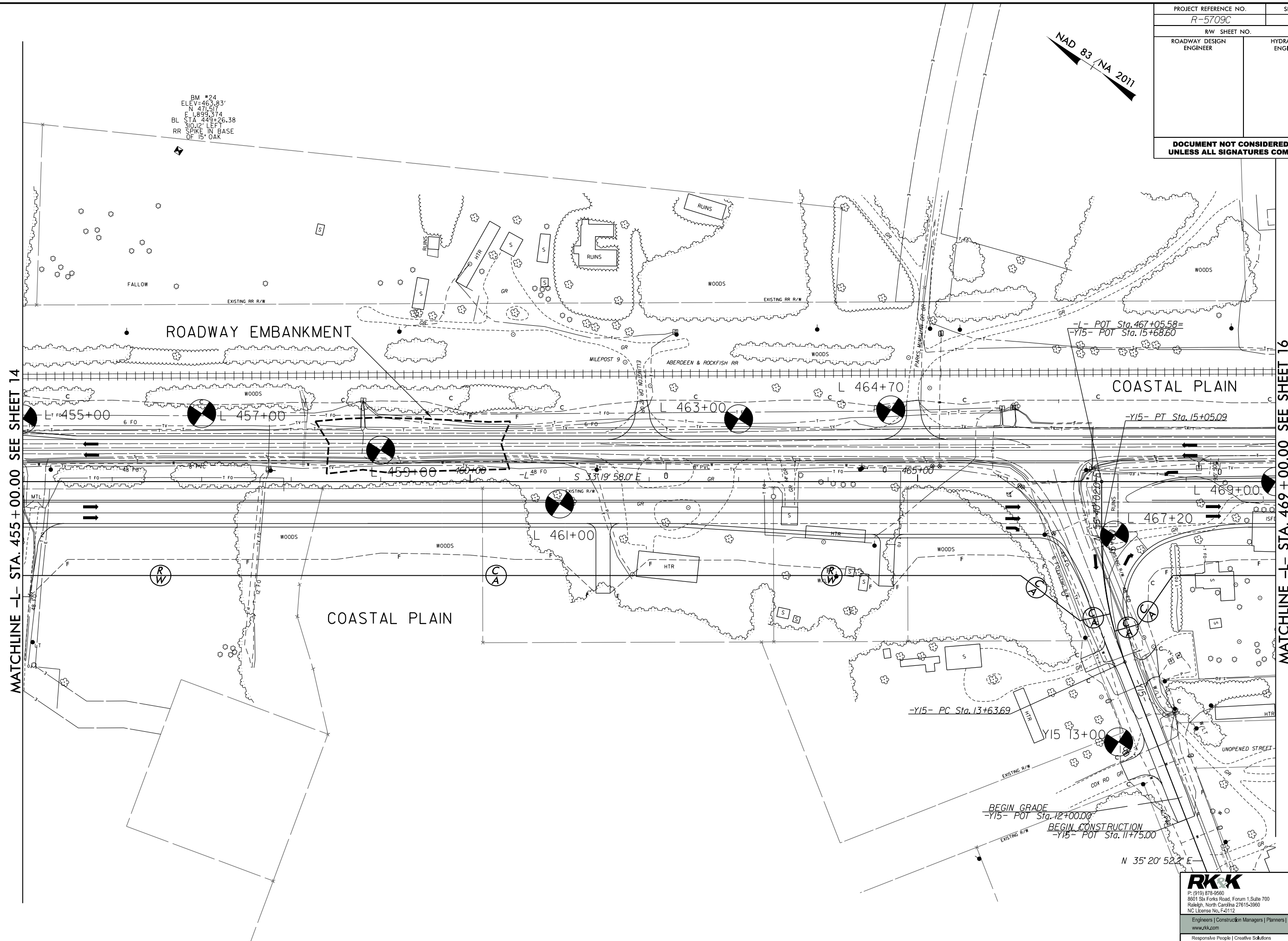
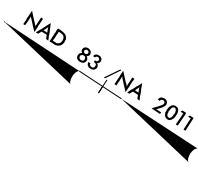
S 33° 19' 58.0" E

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PROJECT REFERENCE NO. R-5709C		SHEET NO. 15	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

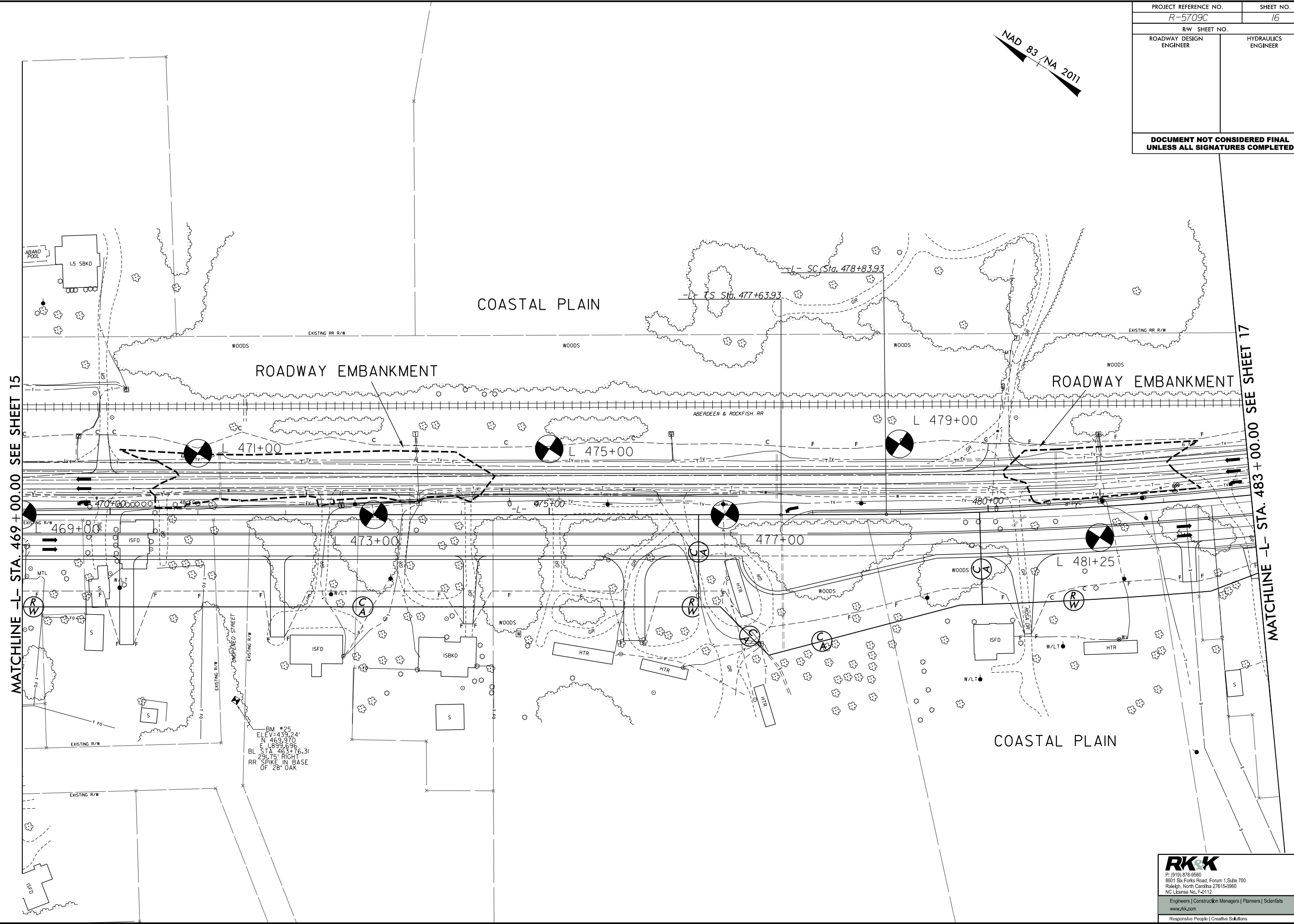
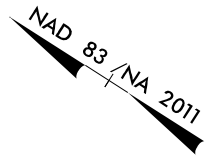


MATCHLINE -L- STA. 455 + 00.00 SEE SHEET 14

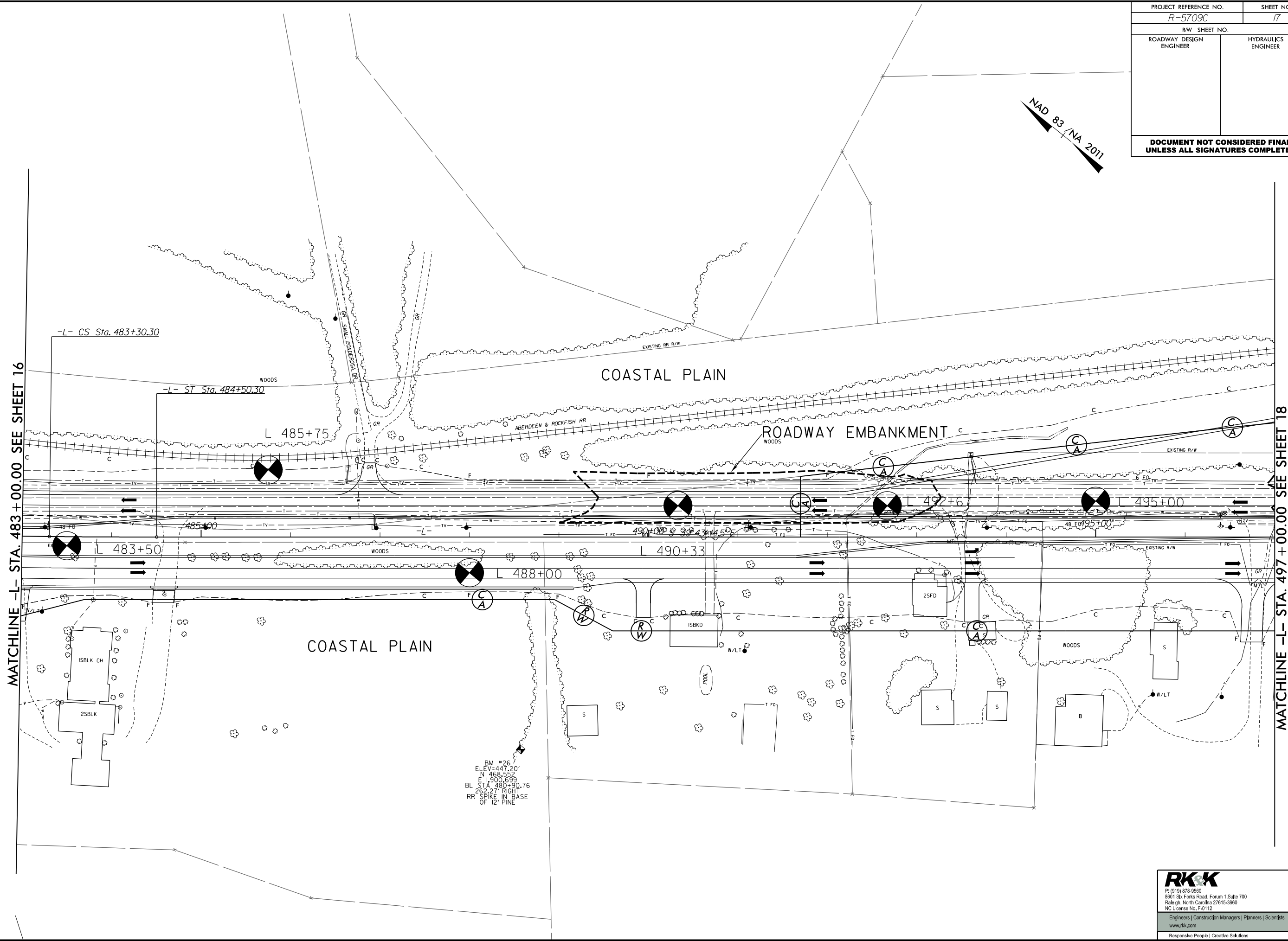
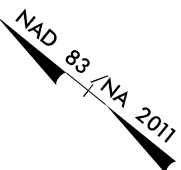
MATCHLINE -L- STA. 469 + 00.00 SEE SHEET 16

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PROJECT REFERENCE NO. R-5709C	SHEET NO. 16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PROJECT REFERENCE NO. R-5709C	SHEET NO. 17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA. 483+00.00 SEE SHEET 16

MATCHLINE -L- STA. 497+00.00 SEE SHEET 18

BM #26
ELEV=447.20'
N 468.552
E 1,900.699
BL STA 480+90.76
26.27' RIGHT
RR SPIKE IN BASE
OF 12" PINE

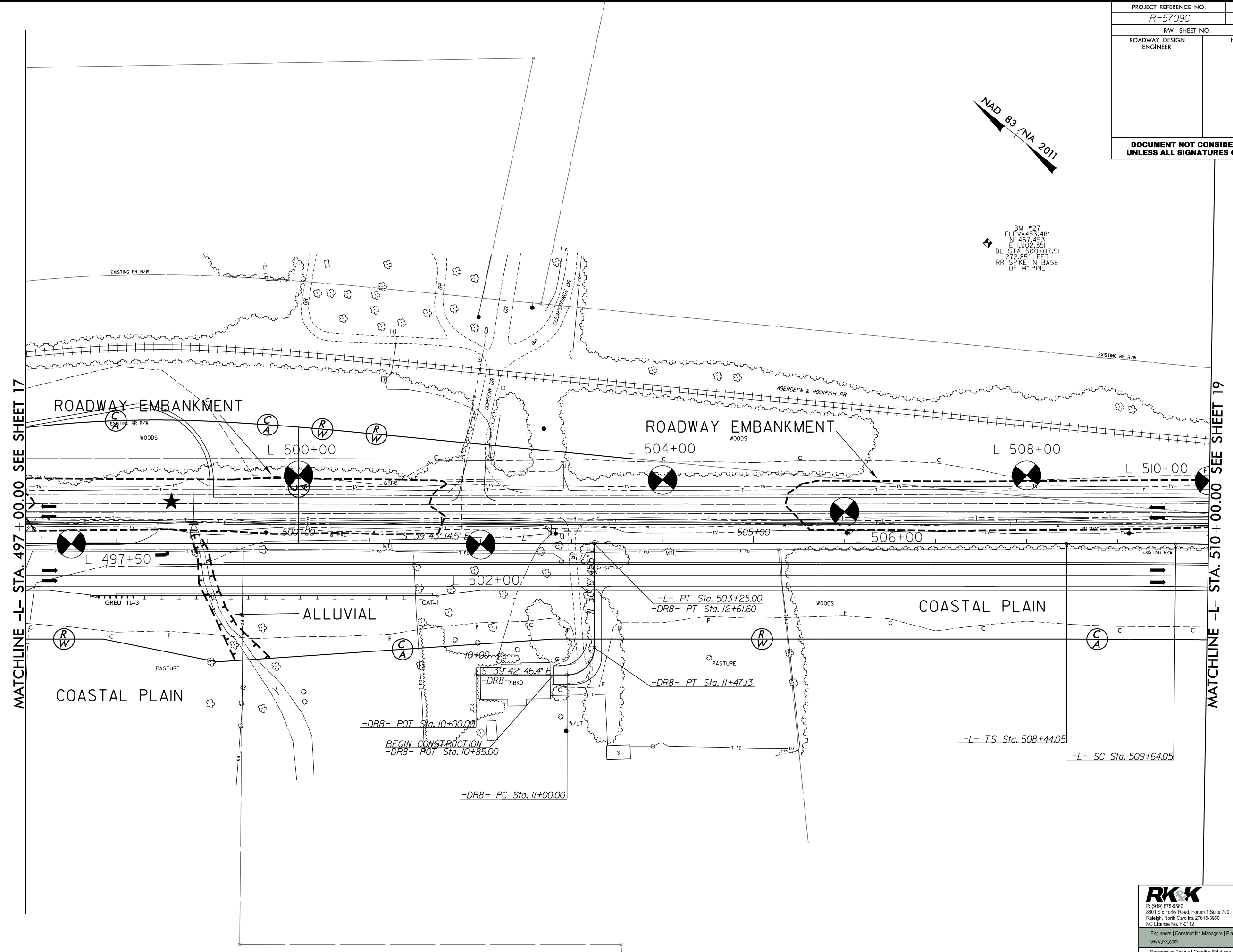
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

BM #27
ELEV=453.48'
N 467.453
E 1,902.351
BL STA 500+07.91
272.85' LEFT
RR SPIKE IN BASE
OF 14' PINE



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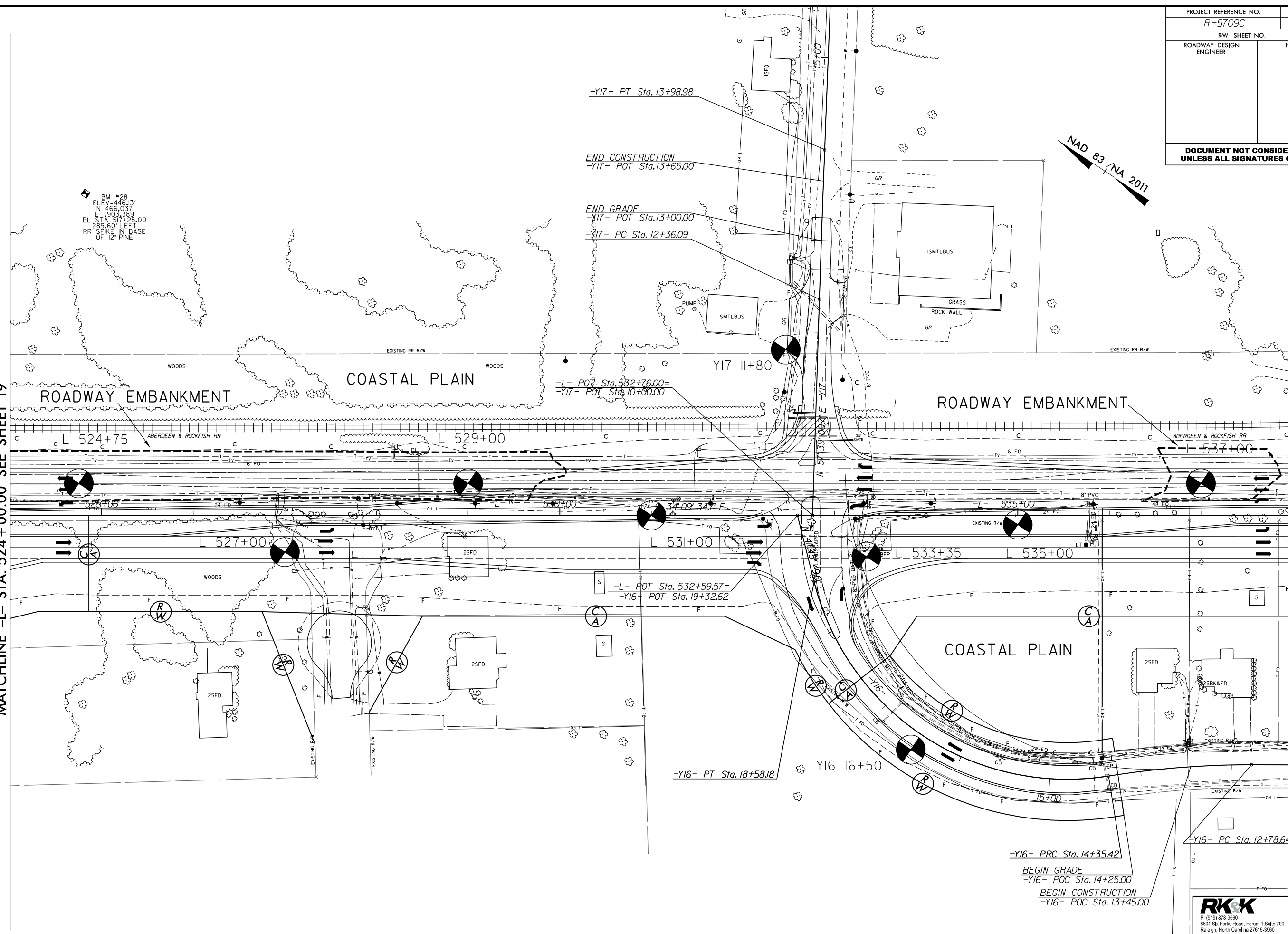
PROJECT REFERENCE NO. R-5709C	SHEET NO. 20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/99

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8/22/2024
name

MATCHLINE -L- STA. 524 + 00.00 SEE SHEET 19

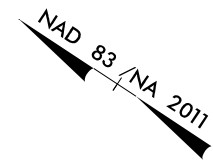
MATCHLINE -L- STA. 538 + 00.00 SEE SHEET 21



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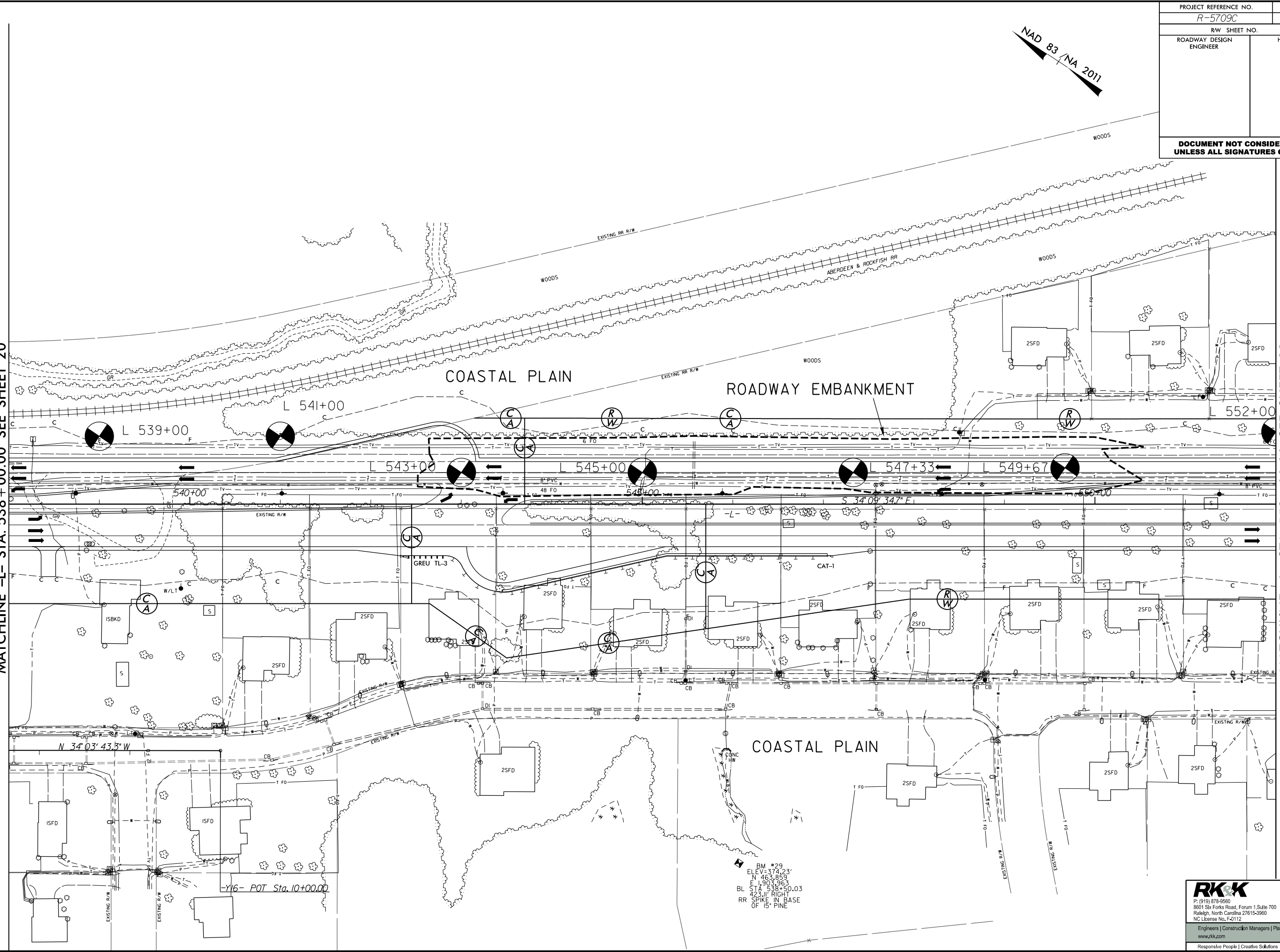
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PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. <i>21</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



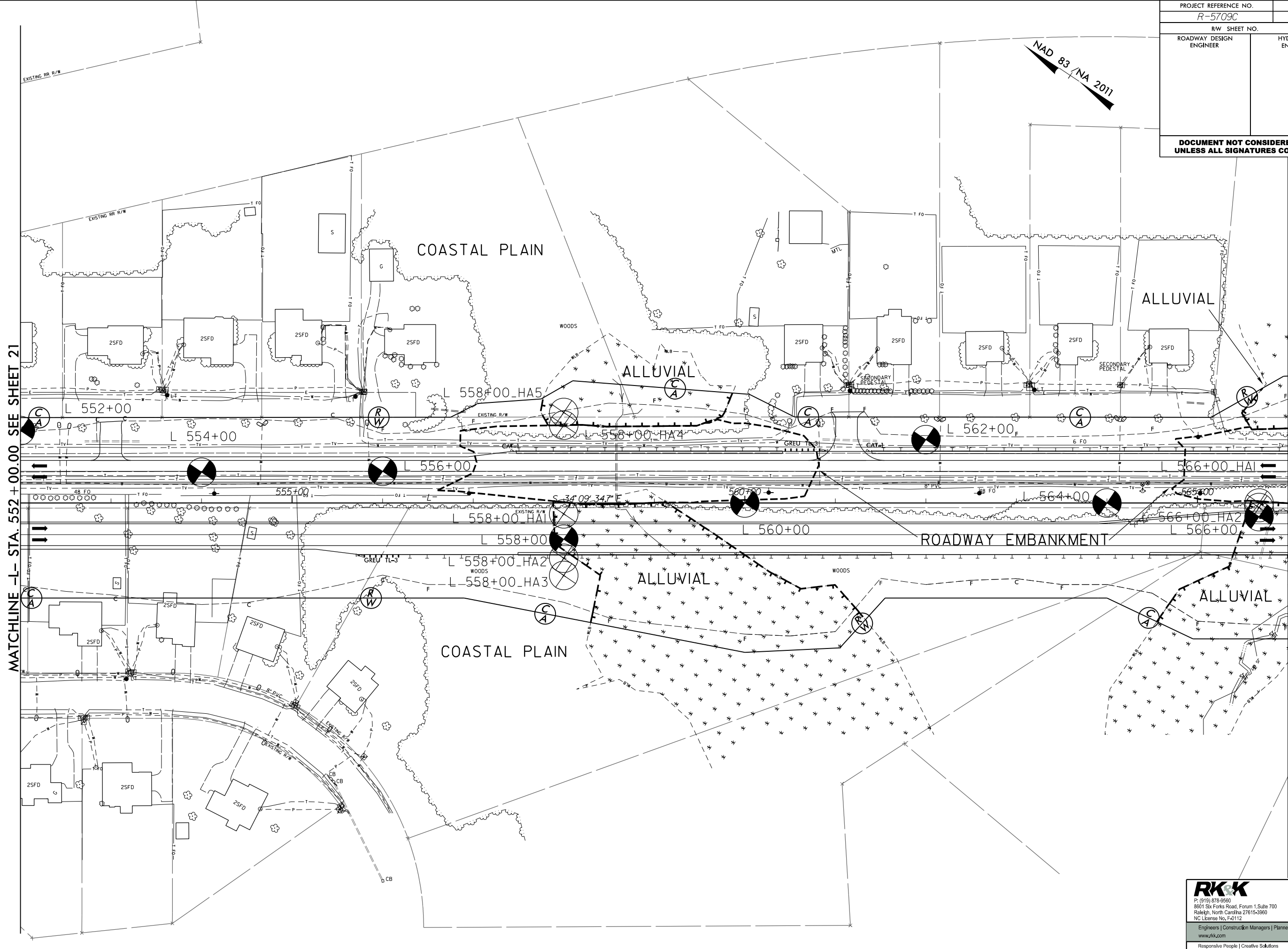
MATCHLINE -L- STA. 538 + 00.00 SEE SHEET 20

MATCHLINE -L- STA. 552 + 00.00 SEE SHEET 22



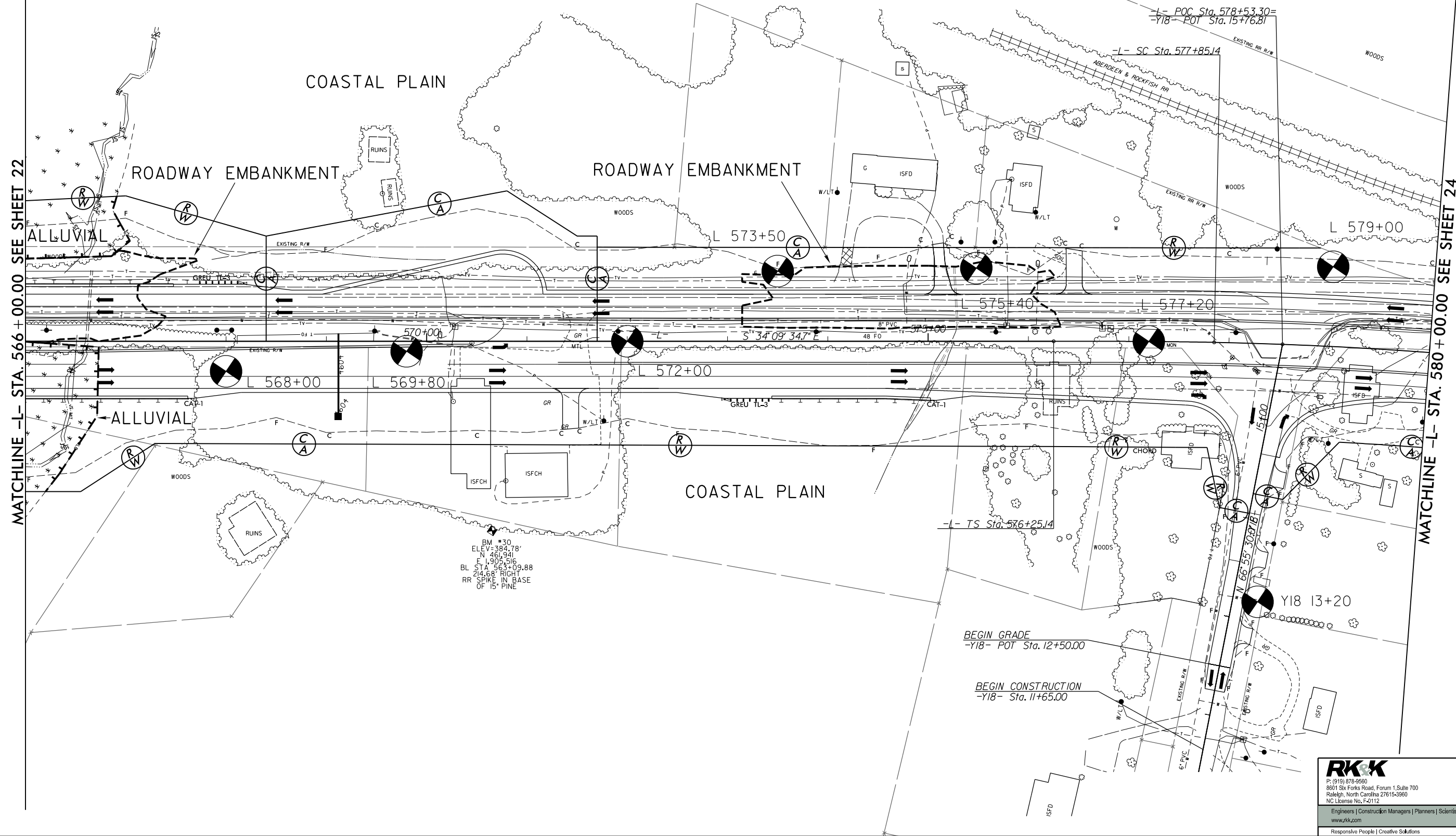
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 22
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PROJECT REFERENCE NO. R-5709C	SHEET NO. 23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011



BM #30
ELEV=384.78'
N 461.941'
E 1,905.516'
BL STA 563+09.88
RR SPIKE IN BASE
OF 15' PINE

BEGIN GRADE
-Y18- POT Sta. 12+50.00

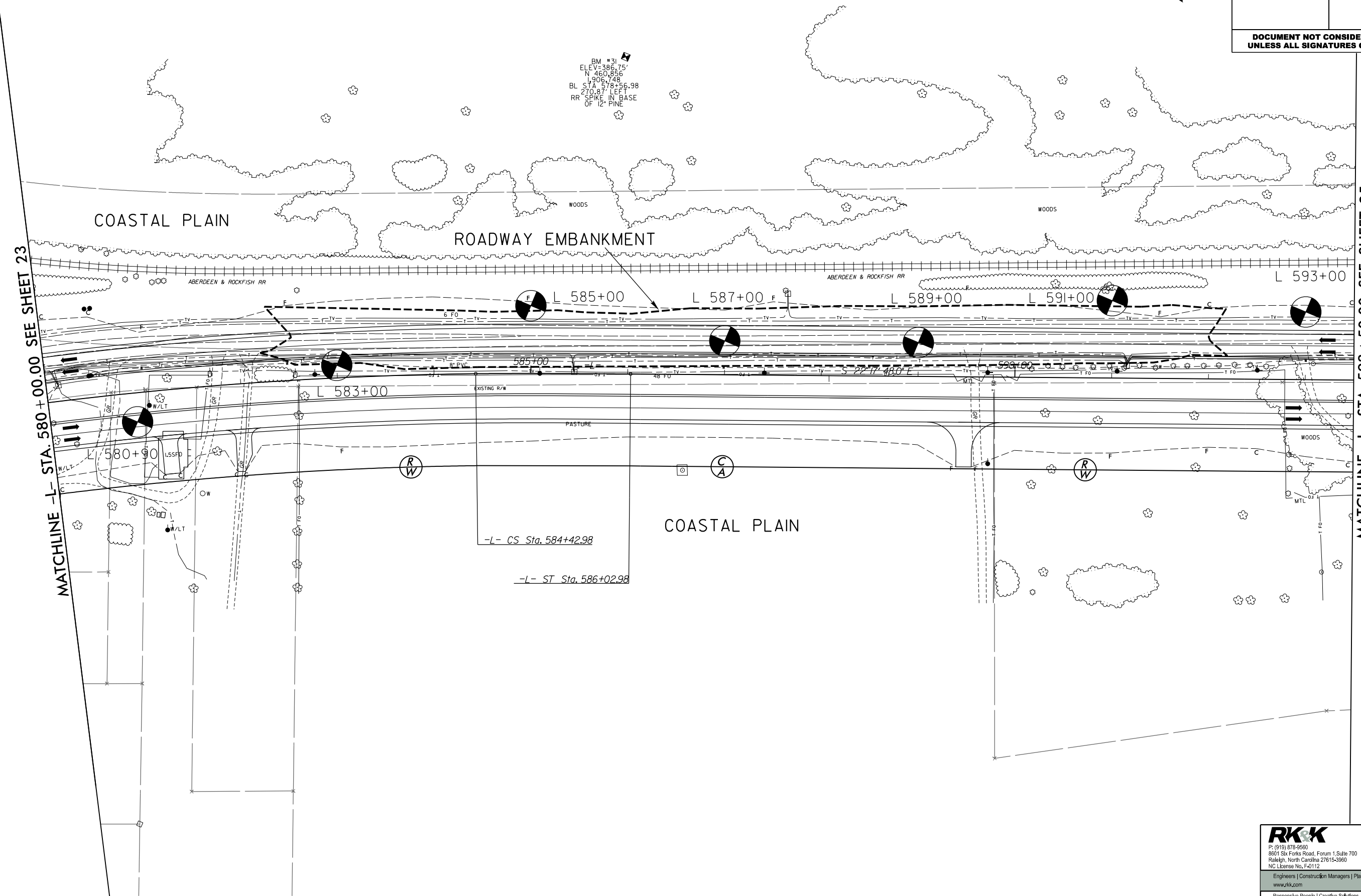
BEGIN CONSTRUCTION
-Y18- Sta. 11+65.00

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PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. <i>24</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

BM #31
ELEV=386.75'
N 460.856
E 1906.748
BL STA 578+56.98
270.87' LEFT
RR SPIKE IN BASE
OF 12" PINE



MATCHLINE -L- STA. 580 + 00.00 SEE SHEET 23

MATCHLINE -L- STA. 593 + 50.00 SEE SHEET 25

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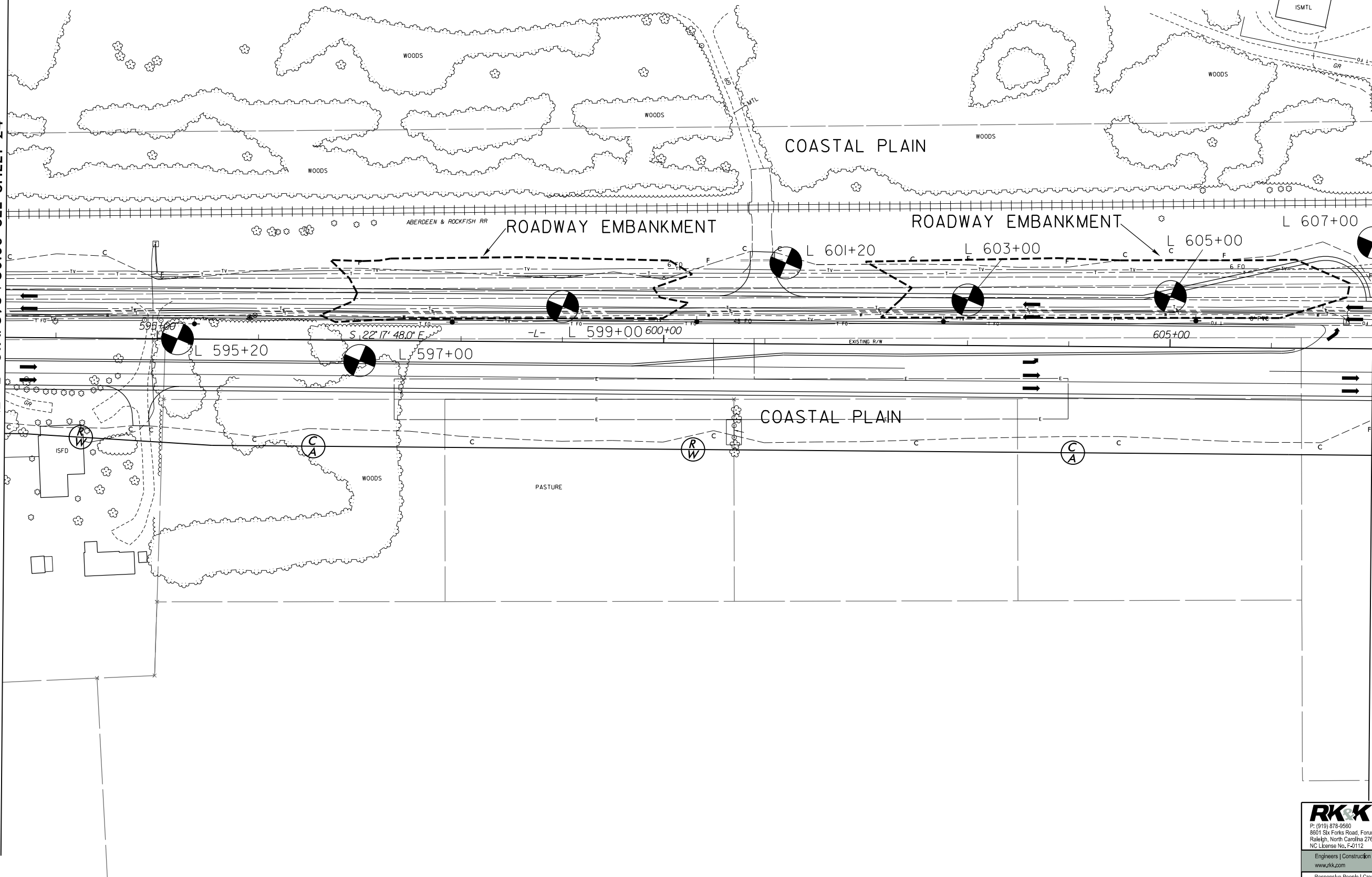
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PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. 25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

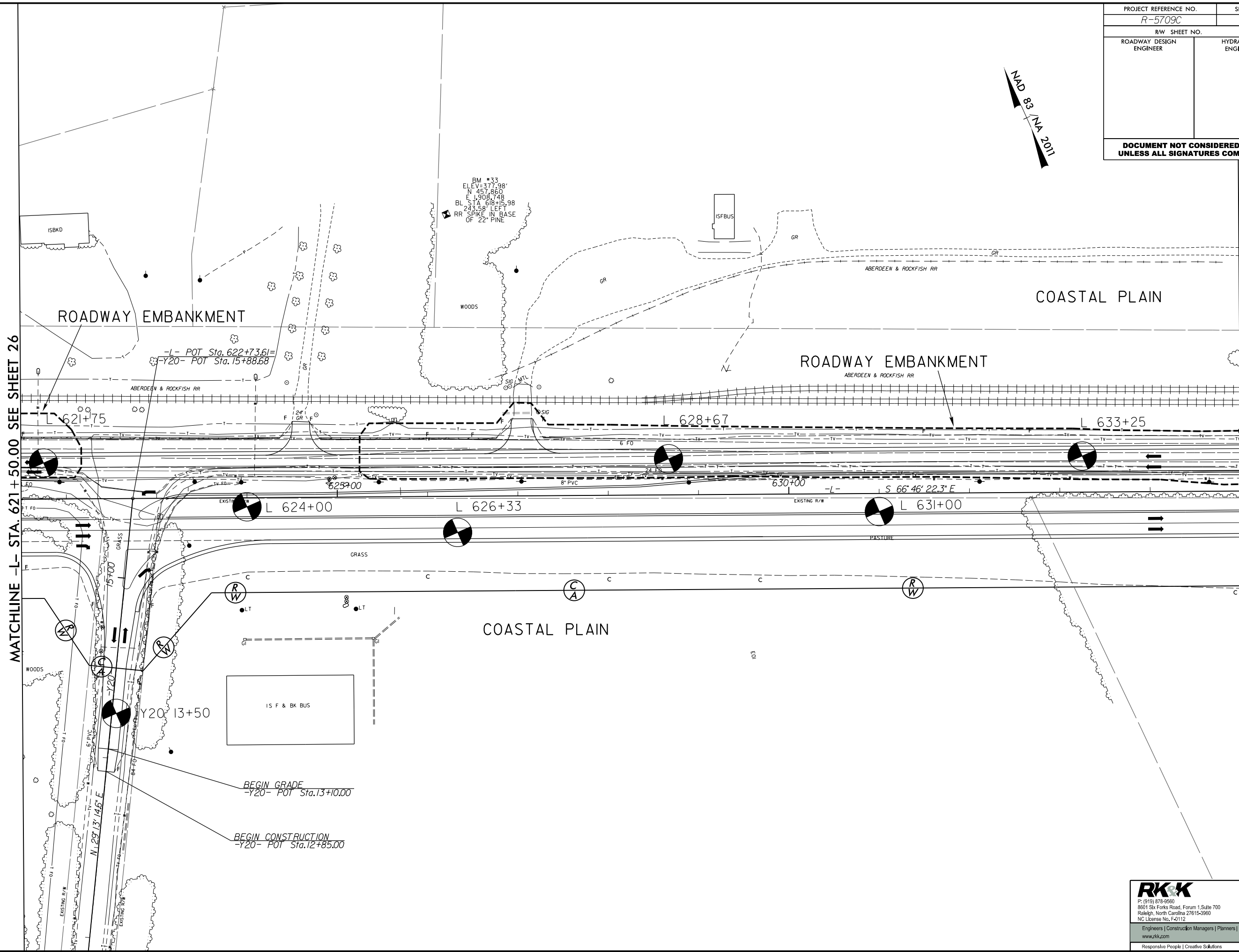
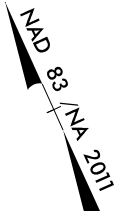
NAD 83 / NA 2011

MATCHLINE -L- STA. 593 + 50.00 SEE SHEET 24

MATCHLINE -L- STA. 607 + 00.00 SEE SHEET 26



PROJECT REFERENCE NO. R-5709C	SHEET NO. 27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

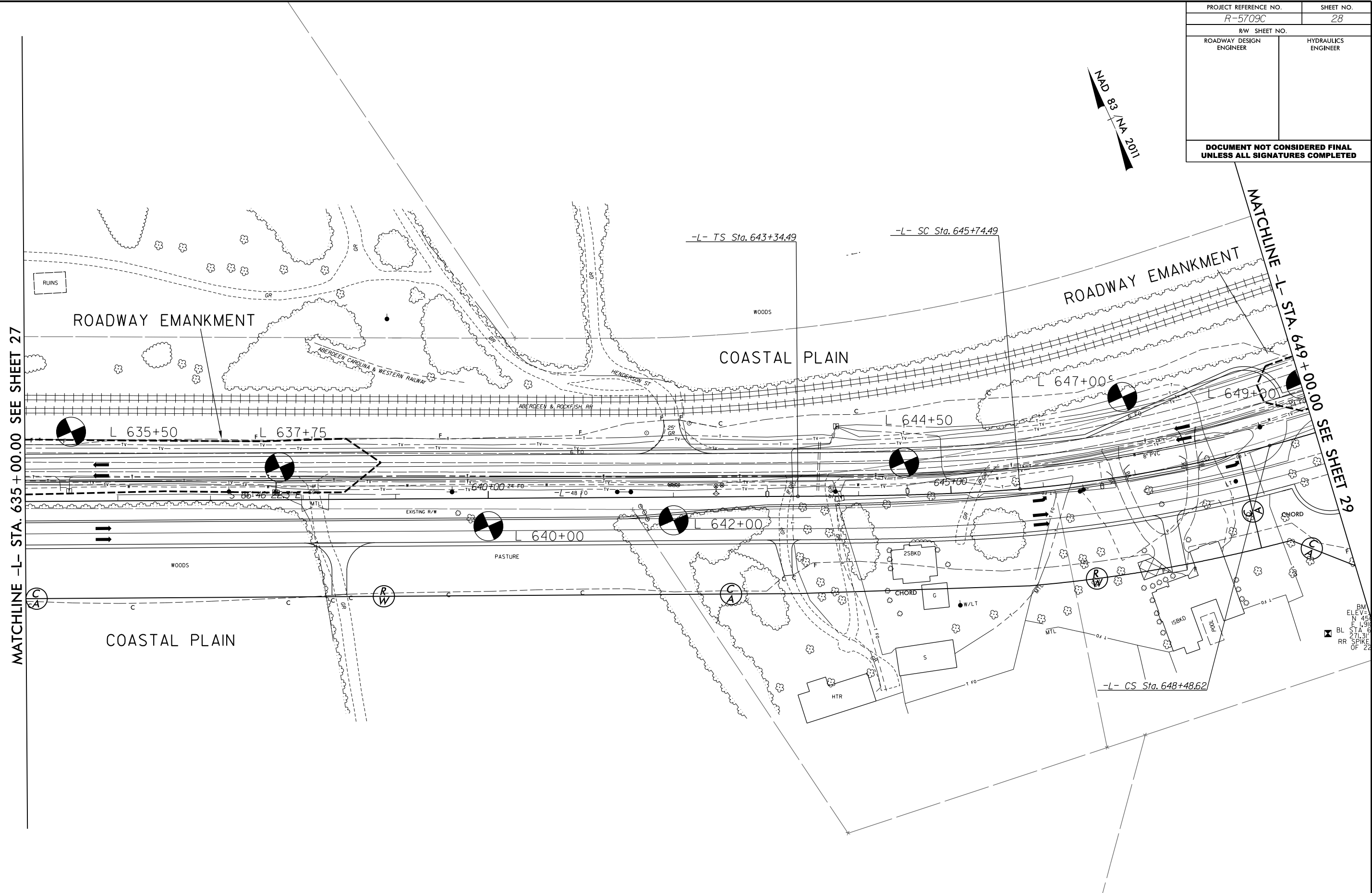
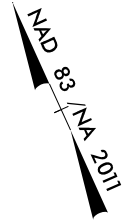


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PROJECT REFERENCE NO. R-5709C	SHEET NO. 28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA. 635 + 00.00 SEE SHEET 27

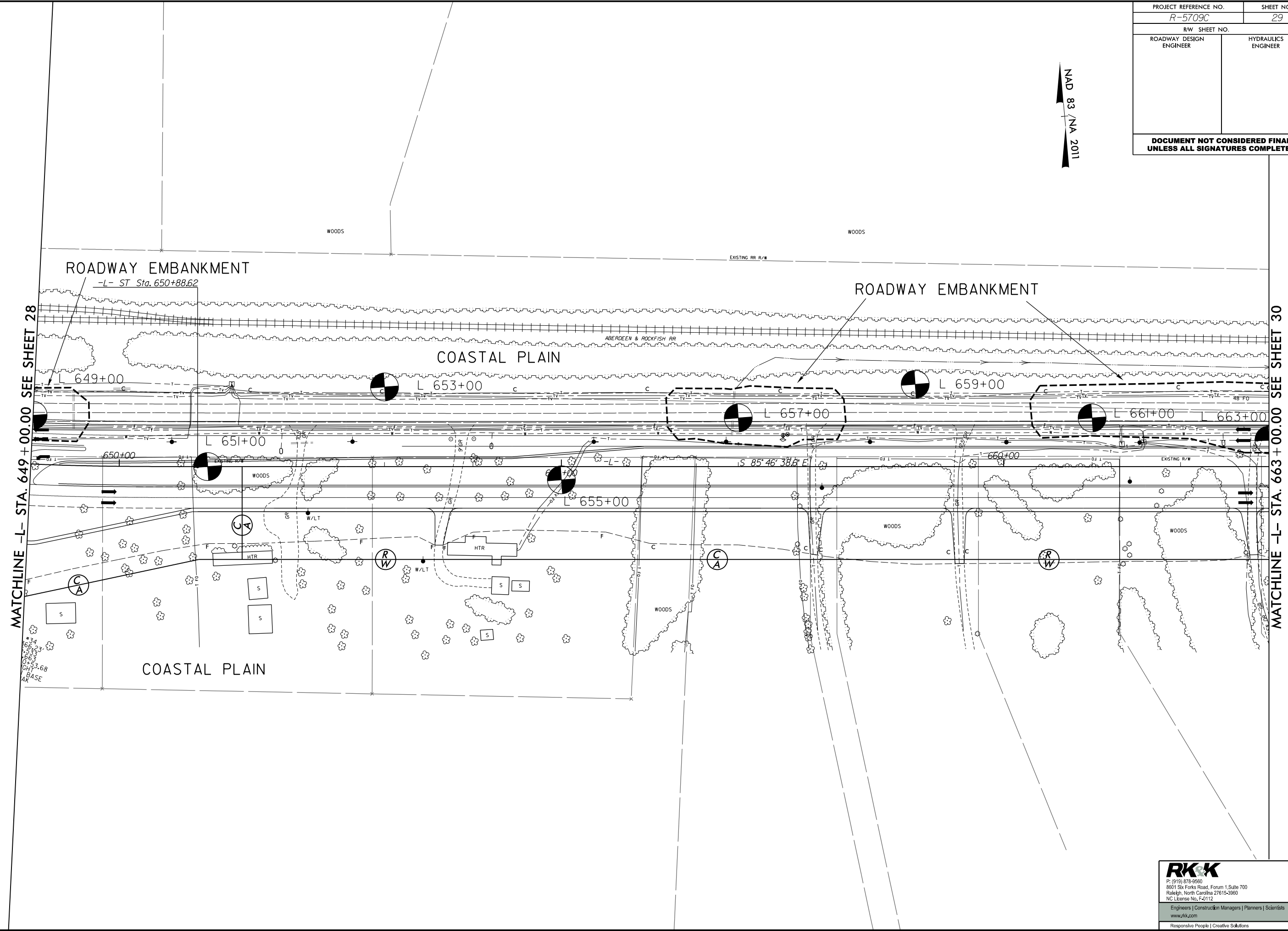
MATCHLINE -L- STA. 649 + 00.00 SEE SHEET 29

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8/29/2024
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PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. 29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011



MATCHLINE -L- STA. 649 + 00.00 SEE SHEET 28

MATCHLINE -L- STA. 663 + 00.00 SEE SHEET 30

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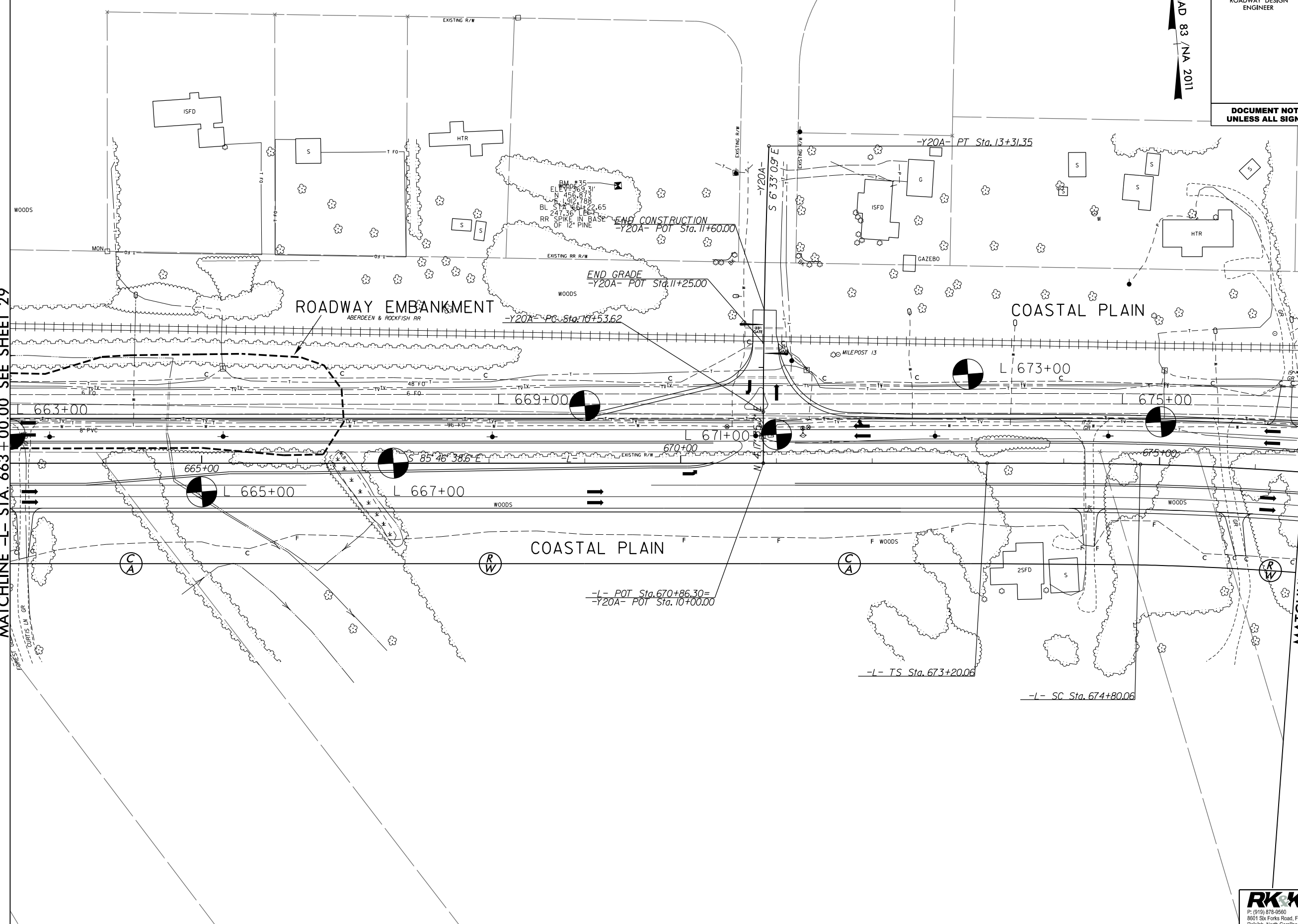
PROJECT REFERENCE NO. R-5709C	SHEET NO. 30
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

**DOCUMENT NOT CONSIDERED FINAL
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NAD 83 / NA 2011

MATCHLINE -L- STA. 663 + 00.00 SEE SHEET 29

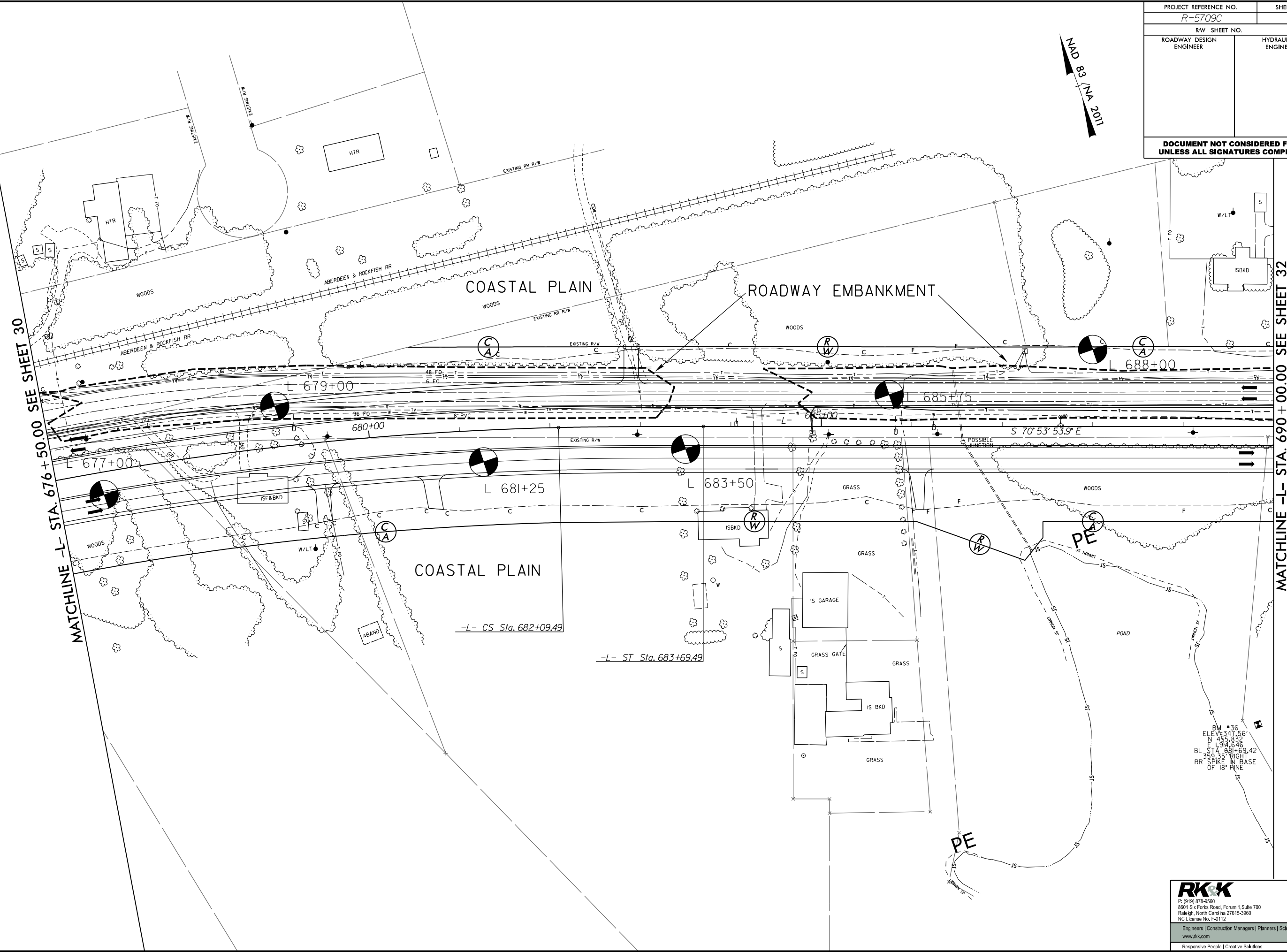
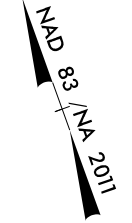
MATCHLINE -L- STA. 676 + 50.00 SEE SHEET 31



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PROJECT REFERENCE NO. R-5709C	SHEET NO. 31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



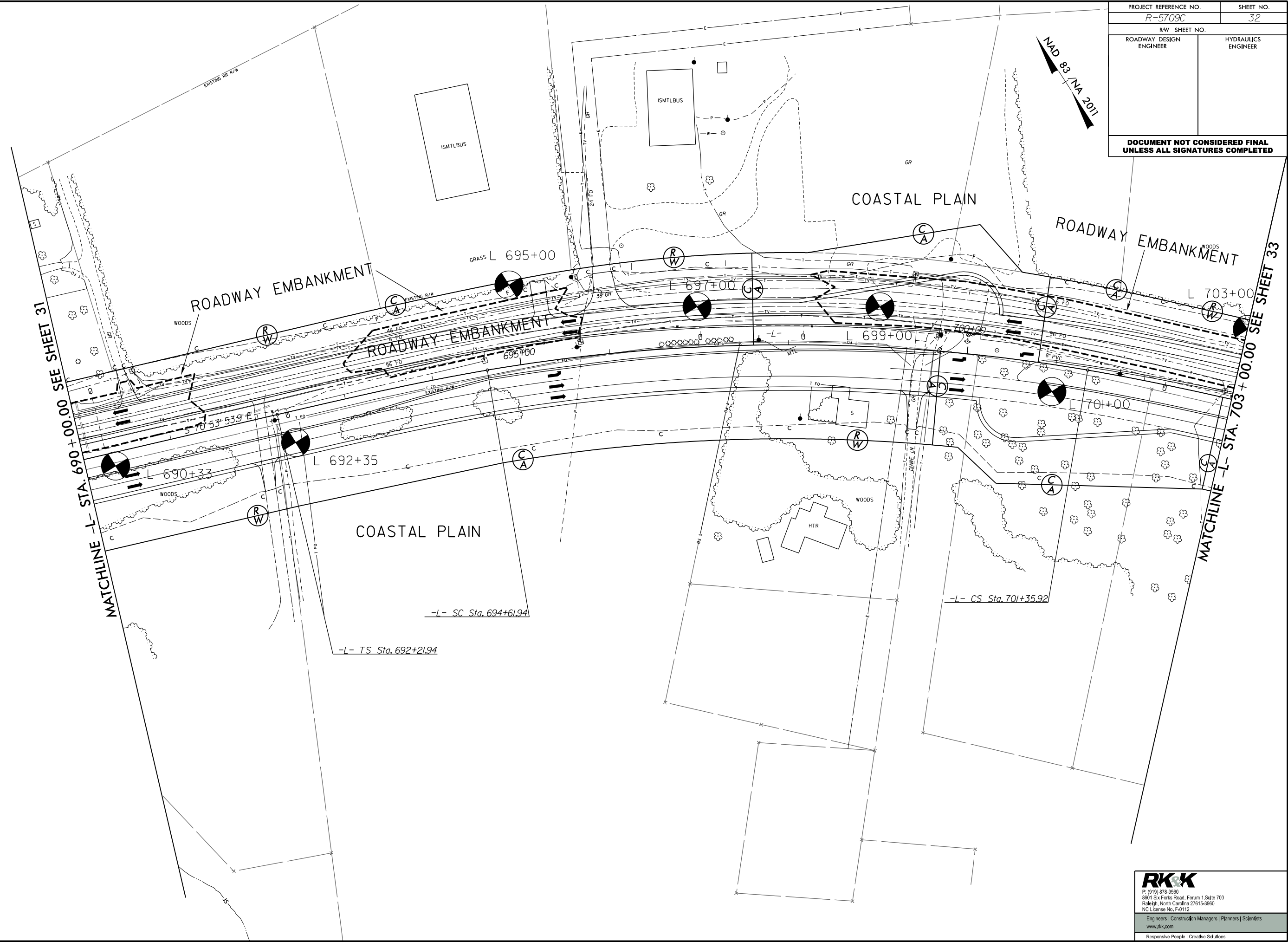
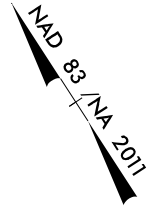
MATCHLINE -L- STA. 676 + 50.00 SEE SHEET 30

MATCHLINE -L- STA. 690 + 00.00 SEE SHEET 32

BM #36
ELEV=347.56'
N 455.832
S 194.646
BL STA. 683+69.42
359.35' RIGHT
RR SPIKE IN BASE
OF 18\"/>

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PROJECT REFERENCE NO. R-5709C	SHEET NO. 32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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 8/23/2024

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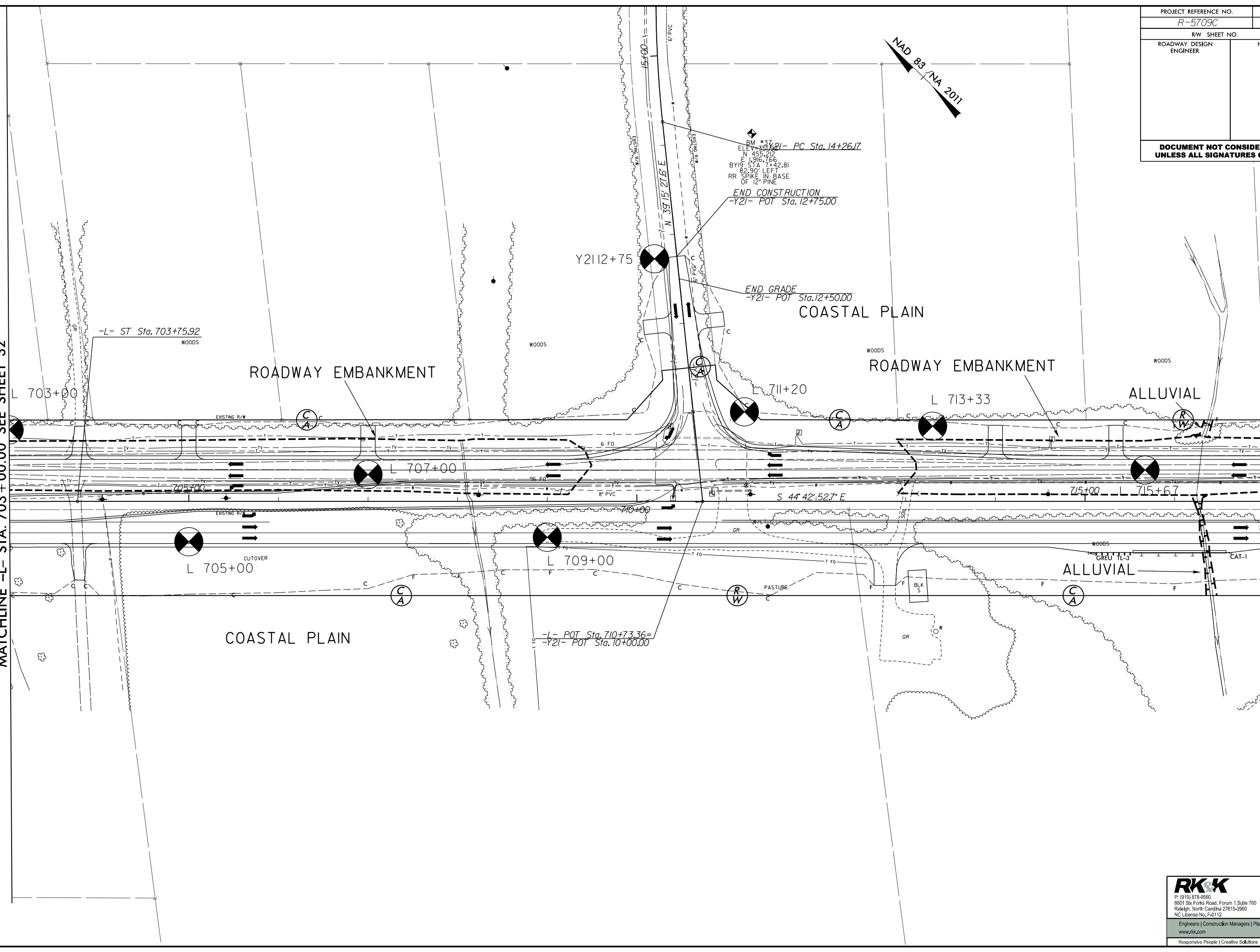
8/17/99

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PROJECT REFERENCE NO. R-5709C	SHEET NO. 33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 703 + 00.00 SEE SHEET 32

MATCHLINE -L- STA. 717 + 00.00 SEE SHEET 34



NAD 83 / NA 2011

BM #37
 ELEV. 31.62
 N 455.212
 E 196.766
 BY STA. 7+42.81
 82.90' LEFT
 RR SPIKE IN BASE
 OF 12" PINE
 END CONSTRUCTION
 -Y21- POT Sta. 12+75.00

END GRADE
 -Y21- POT Sta. 12+50.00

-L- POT Sta. 710+73.36=
 -Y21- POT Sta. 10+00.00

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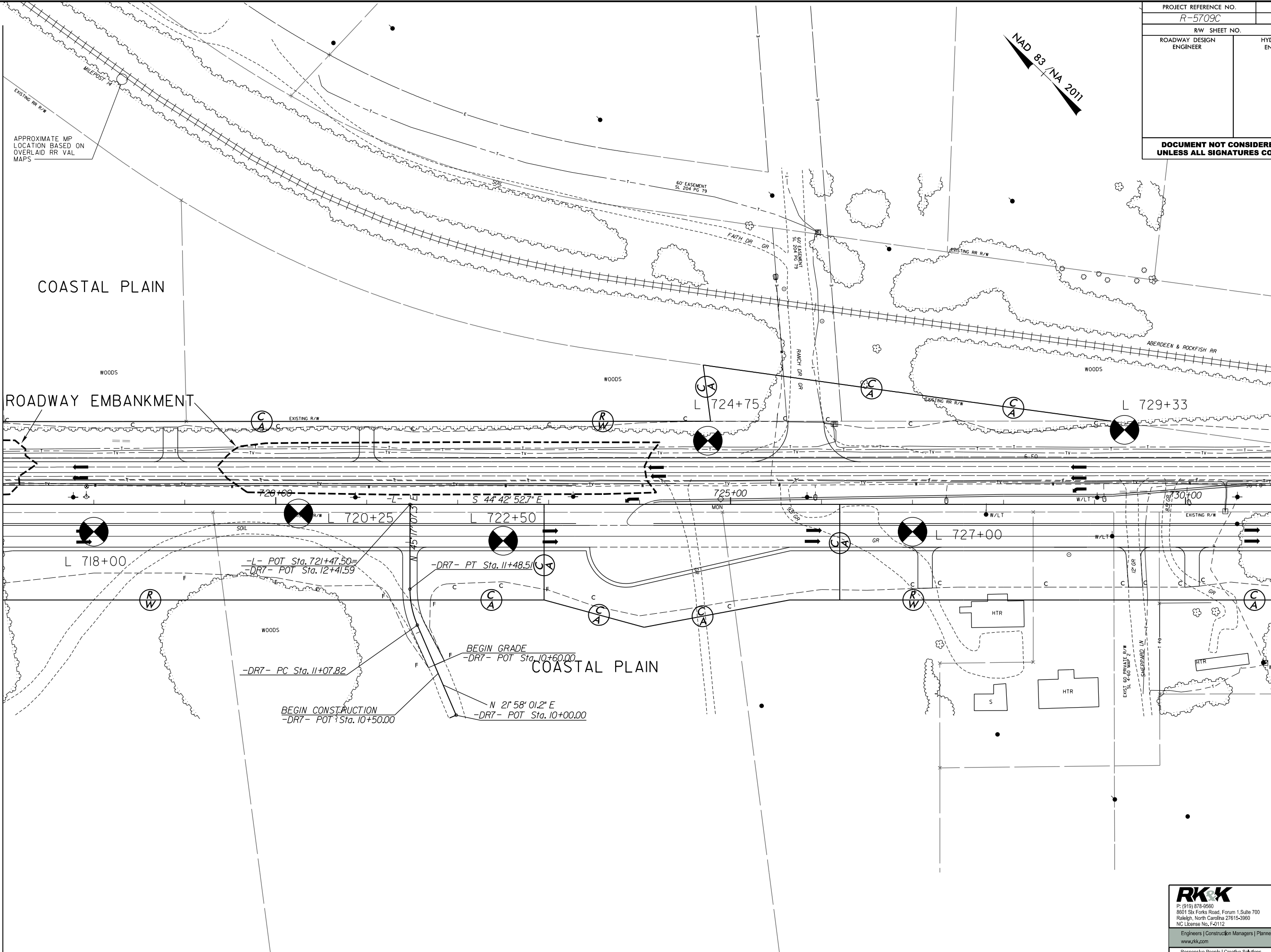
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 34
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

MATCHLINE -L- STA. 717 + 00.00 SEE SHEET 33

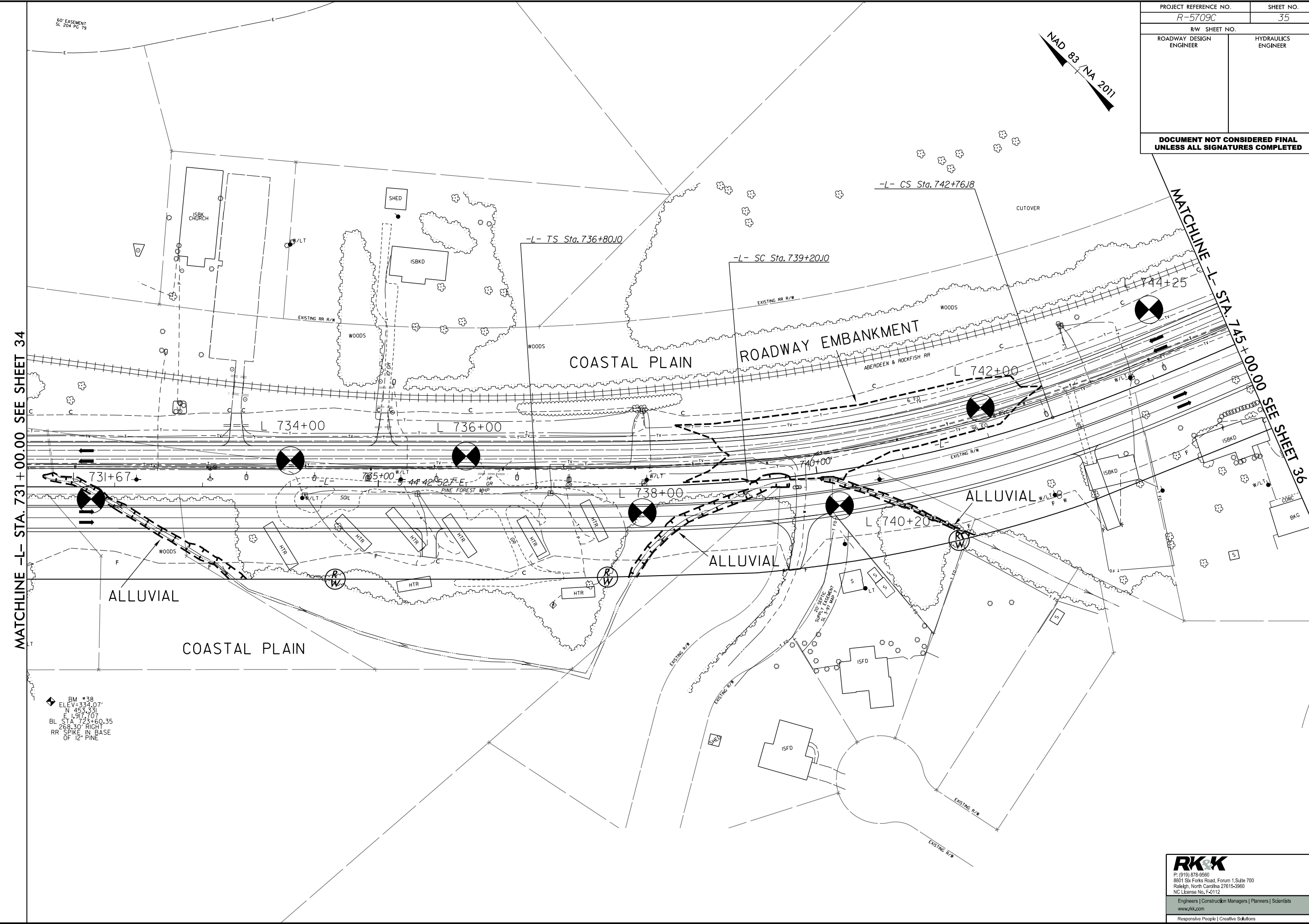
MATCHLINE -L- STA. 731 + 00.00 SEE SHEET 35



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PROJECT REFERENCE NO. R-5709C	SHEET NO. 35
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011



MATCHLINE -L- STA. 731+00.00 SEE SHEET 34

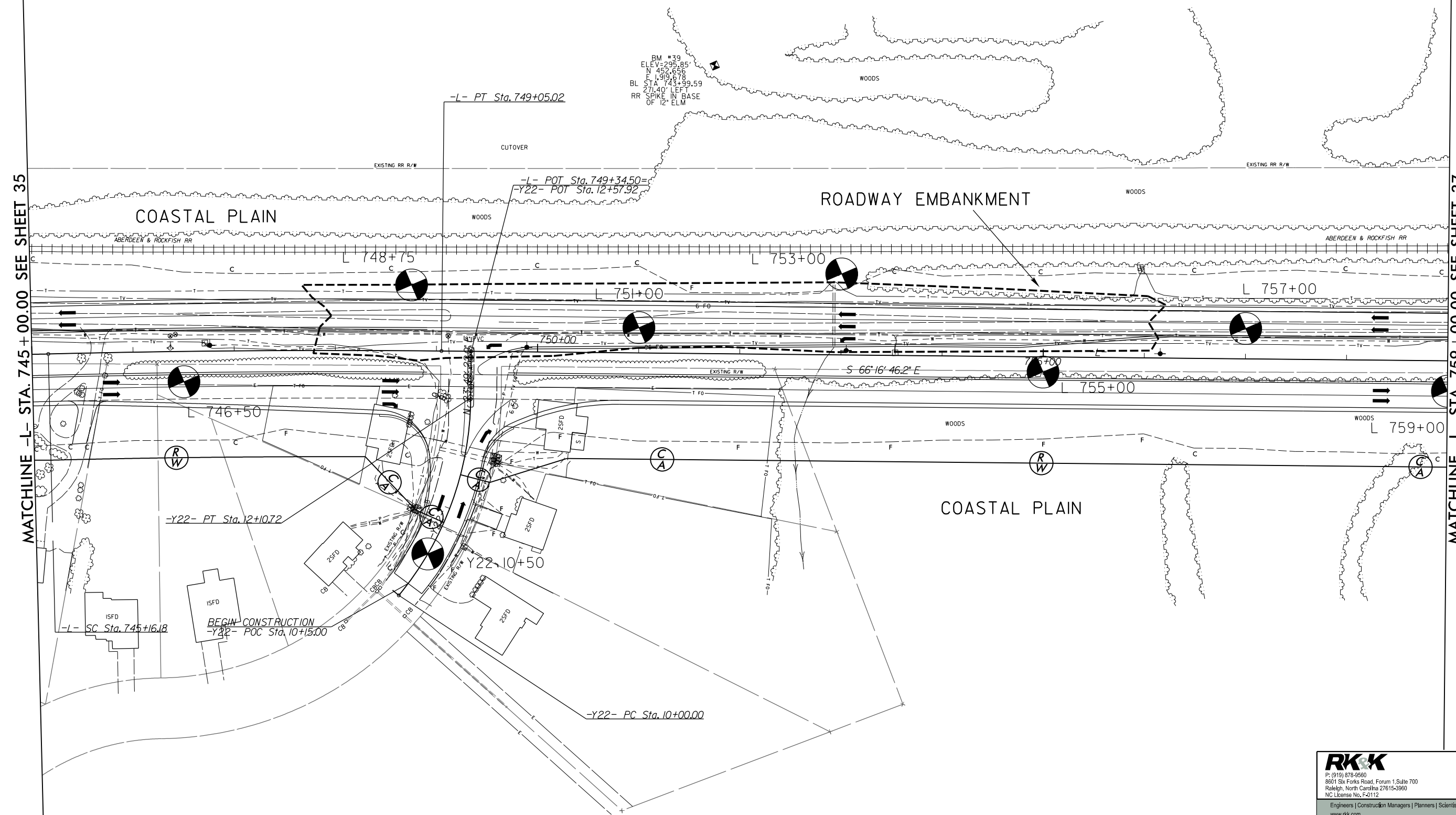
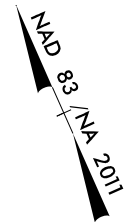
MATCHLINE -L- STA. 745+00.00 SEE SHEET 36

BM #38
ELEV=334.07'
N 453.331
E 1,917.707
BL STA 723+50.35
RR SPIKE IN BASE
OF 12" PINE

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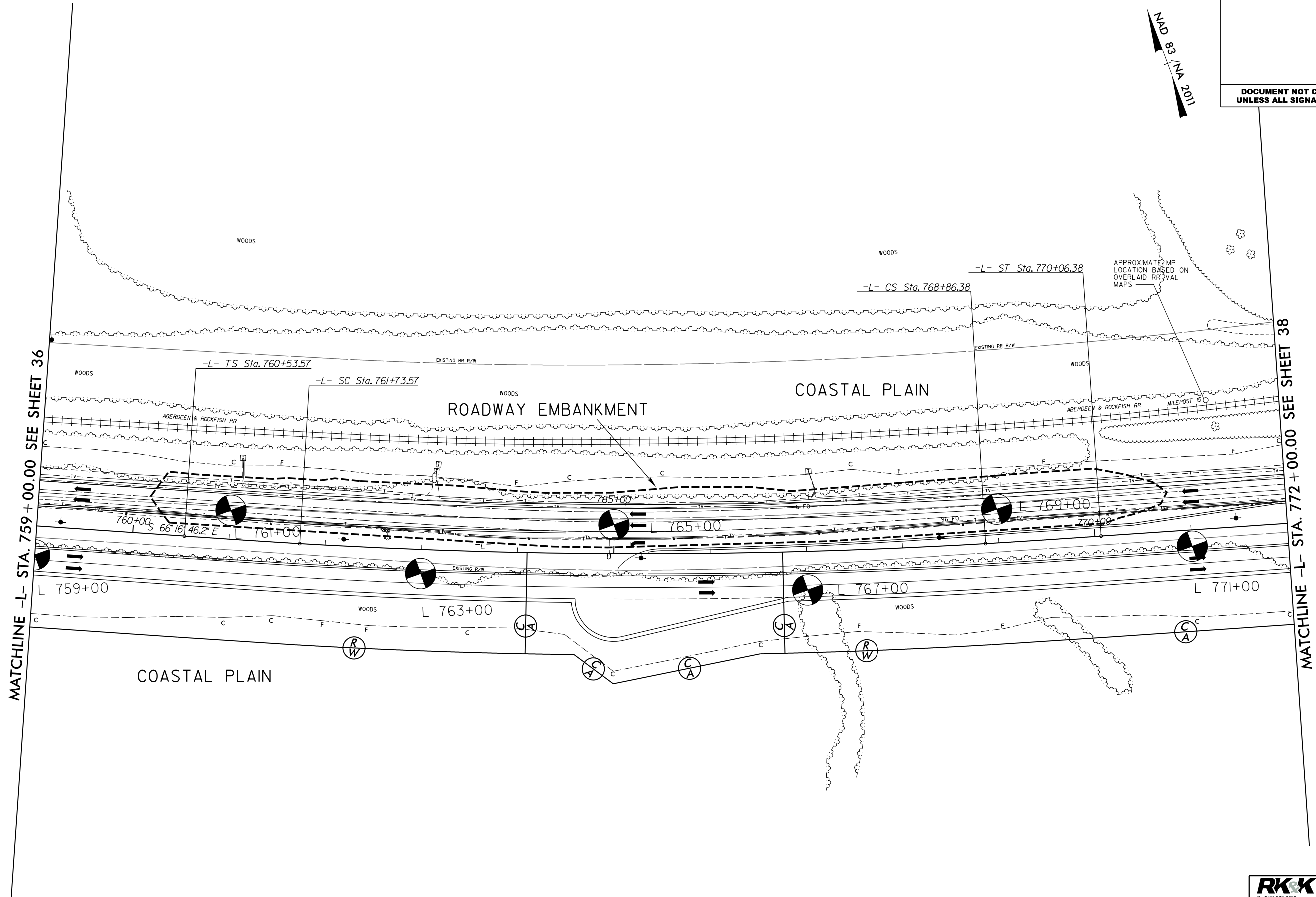
PROJECT REFERENCE NO. <i>R-5709C</i>	SHEET NO. 36
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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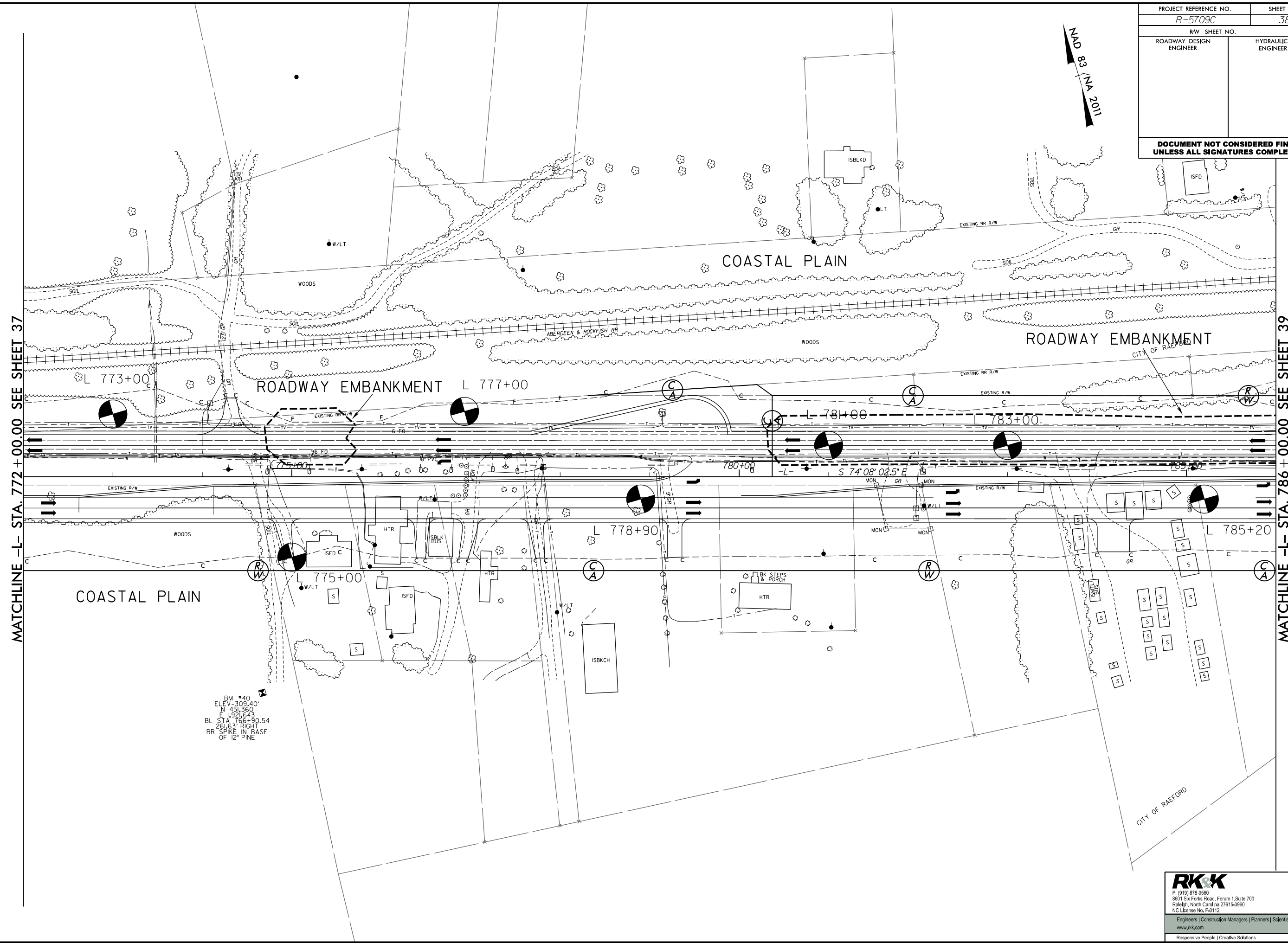
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 37
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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PROJECT REFERENCE NO. R-5709C	SHEET NO. 38
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA. 772 + 00.00 SEE SHEET 37

MATCHLINE -L- STA. 786 + 00.00 SEE SHEET 39

BM #40
 ELEV=309.40'
 N 451.360
 E 1,921.643
 BL STA. 766+90.54
 261.63' RIGHT
 RR SPIKE IN BASE
 OF 12" PINE

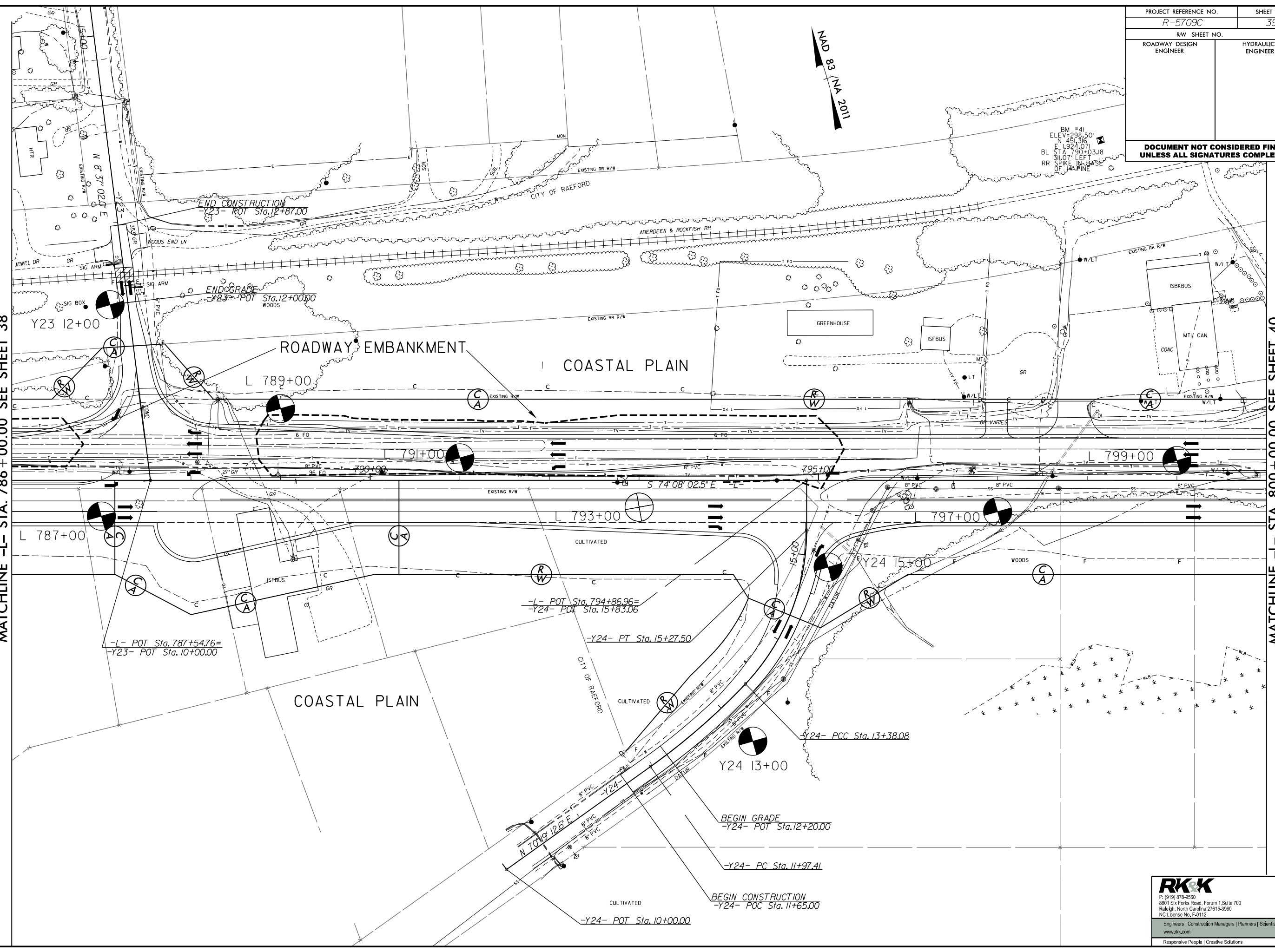
8/17/99
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 name.plt

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PROJECT REFERENCE NO. R-5709C	SHEET NO. 39
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 786 + 00.00 SEE SHEET 38

MATCHLINE -L- STA. 800 + 00.00 SEE SHEET 40



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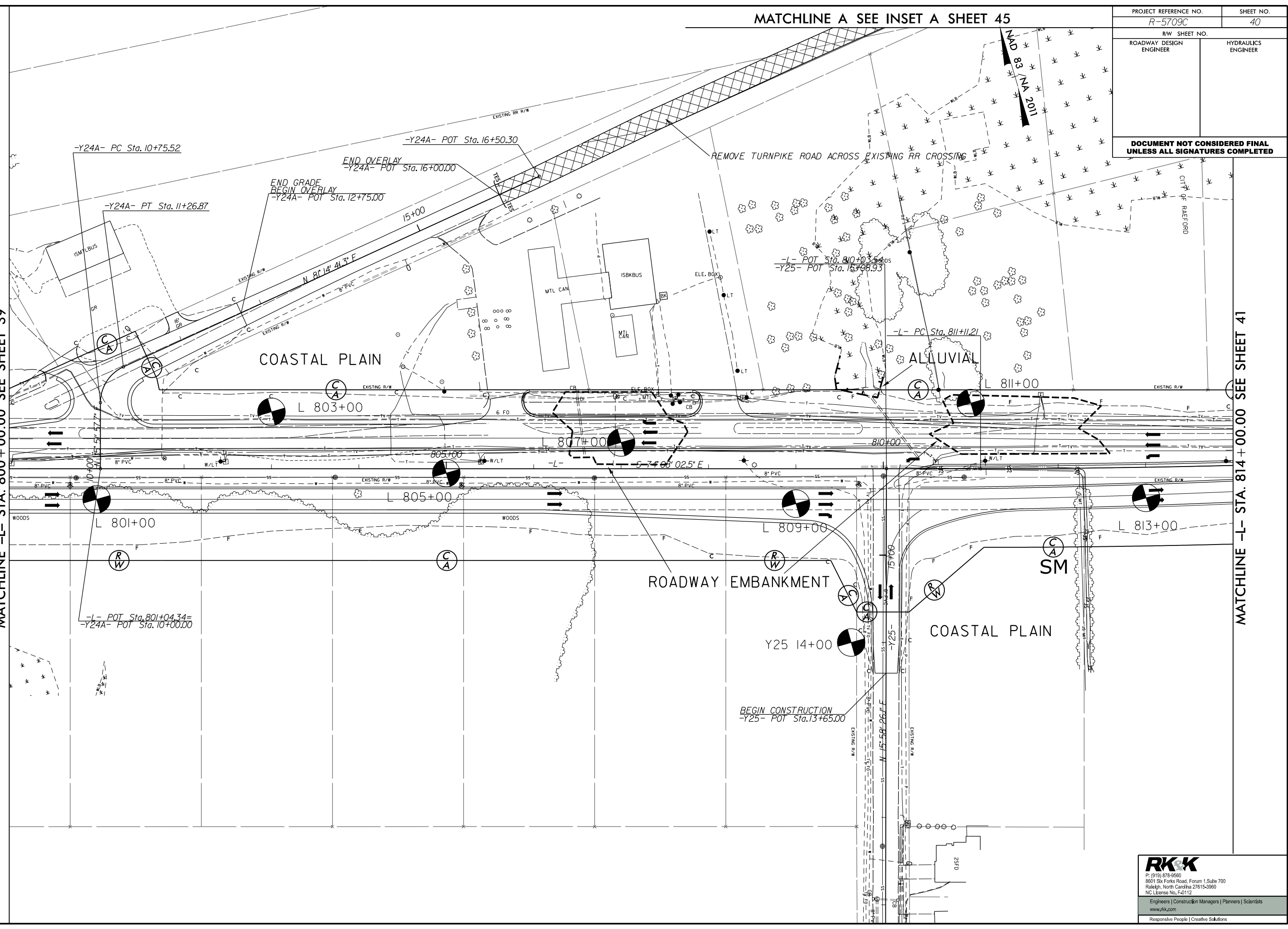
PROJECT REFERENCE NO. R-5709C	SHEET NO. 40
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

MATCHLINE A SEE INSET A SHEET 45

MATCHLINE -L- STA. 800 + 00.00 SEE SHEET 39

MATCHLINE -L- STA. 814 + 00.00 SEE SHEET 41



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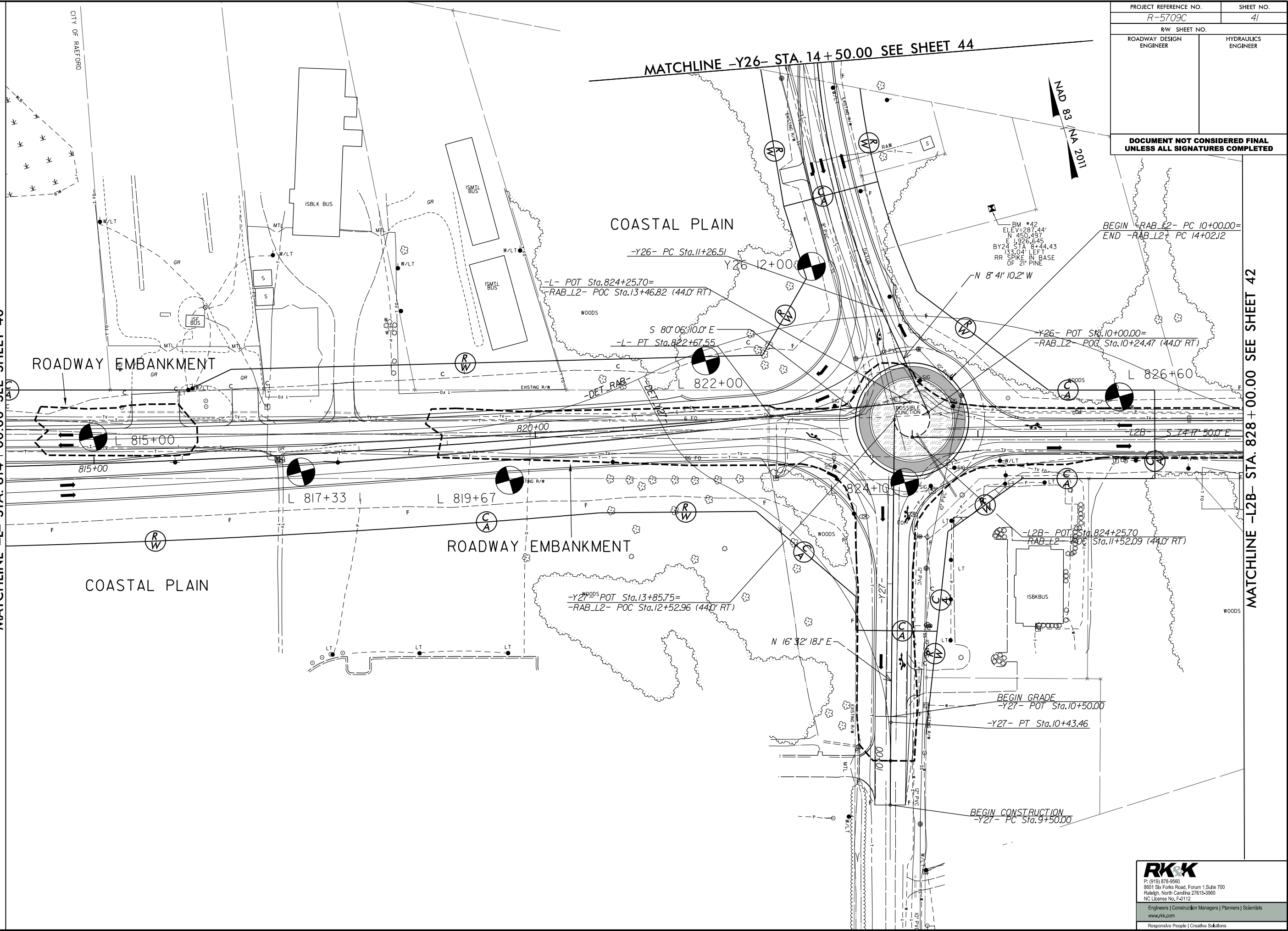
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 41
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 814+00.00 SEE SHEET 40

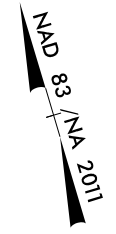
MATCHLINE -Y26- STA. 14+50.00 SEE SHEET 44



MATCHLINE -L2B- STA. 828+00.00 SEE SHEET 42

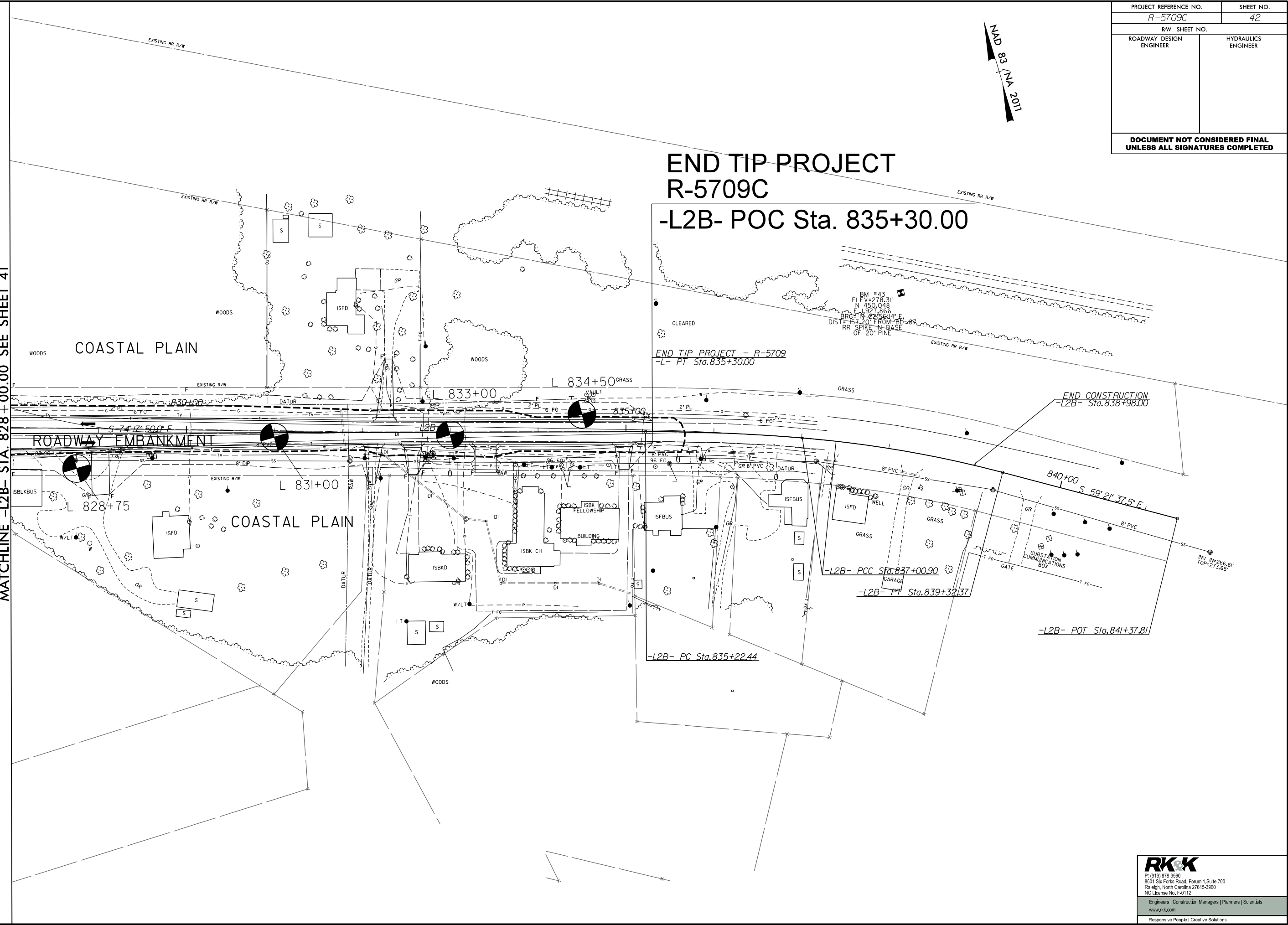
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 42
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



END TIP PROJECT R-5709C -L2B- POC Sta. 835+30.00

MATCHLINE -L2B- STA. 828+00.00 SEE SHEET 41



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8/29/2024
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rme-tr-j

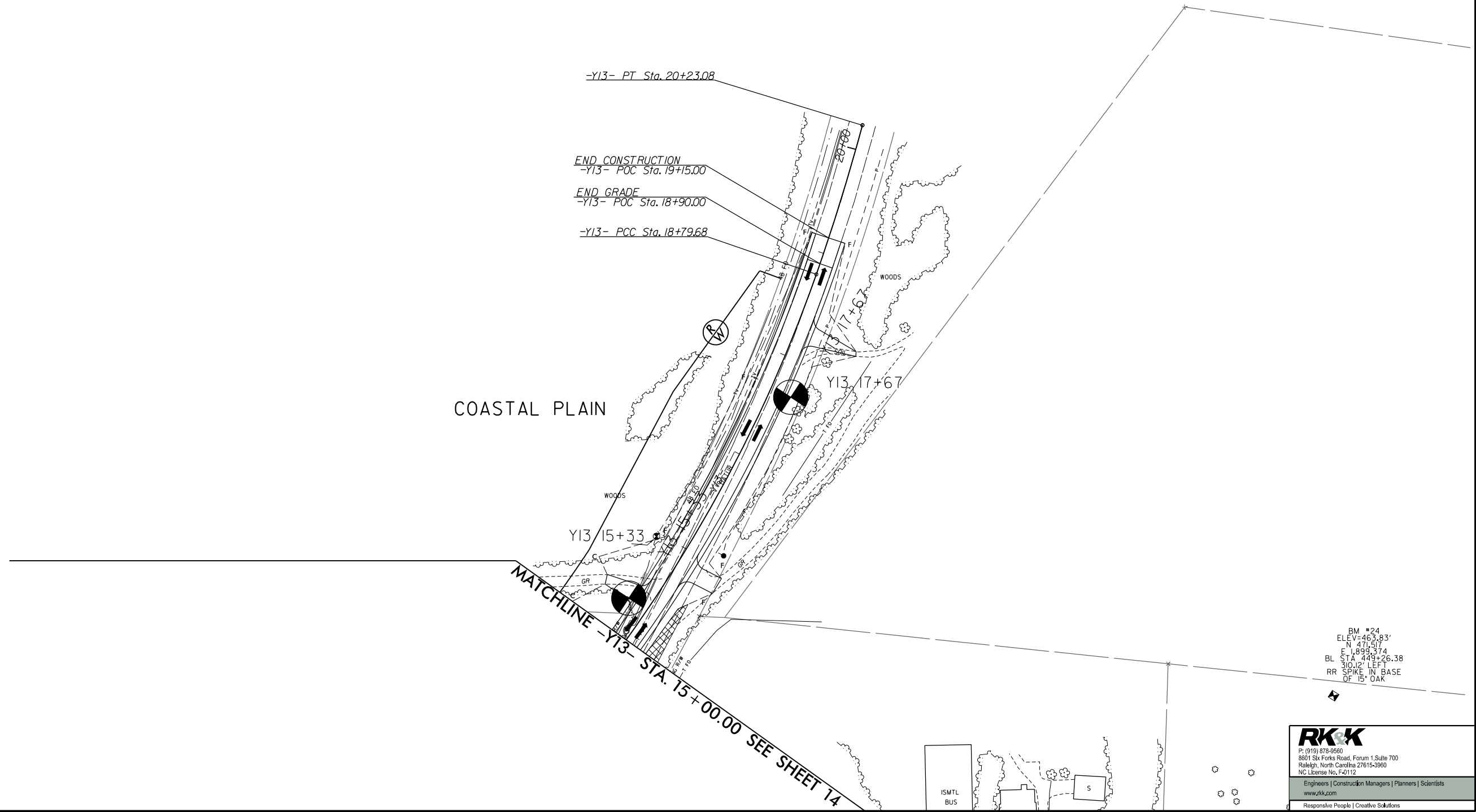
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PROJECT REFERENCE NO.		SHEET NO.	
R-5709C		43	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NAD 83 / NA 2011

8/17/99

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8/23/2024
name.plt



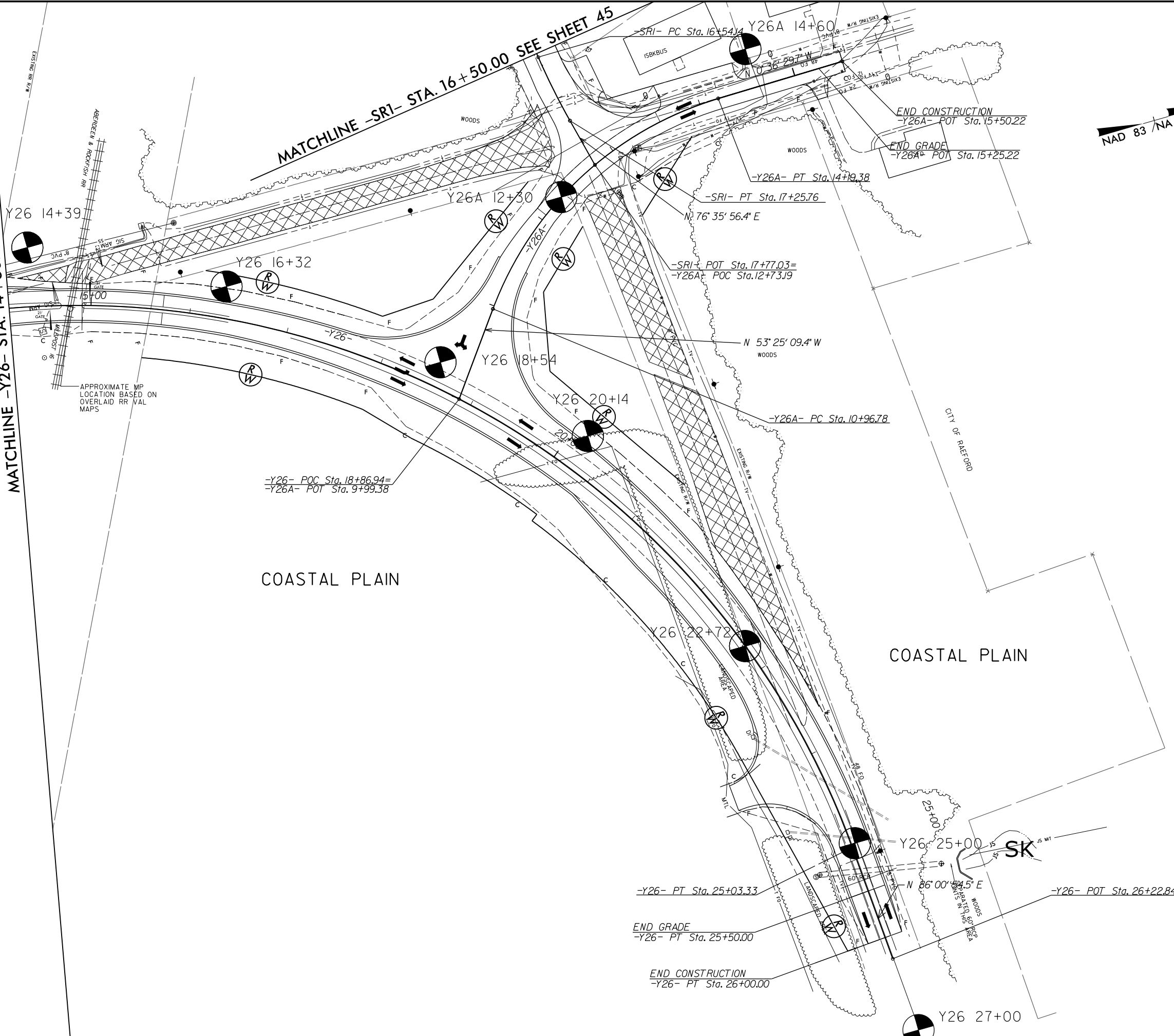
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MATCHLINE -Y26- STA. 14 + 50.00 SEE SHEET 41

MATCHLINE -SRI- STA. 16 + 50.00 SEE SHEET 45



NAD 83 / NA 2011

PROJECT REFERENCE NO. R-5709C	SHEET NO. 44
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

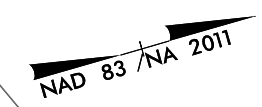
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PROJECT REFERENCE NO. R-5709C	SHEET NO. 45
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

MATCHLINE B SEE INSET A THIS SHEET

Milepost 15.83
Turnpike Road



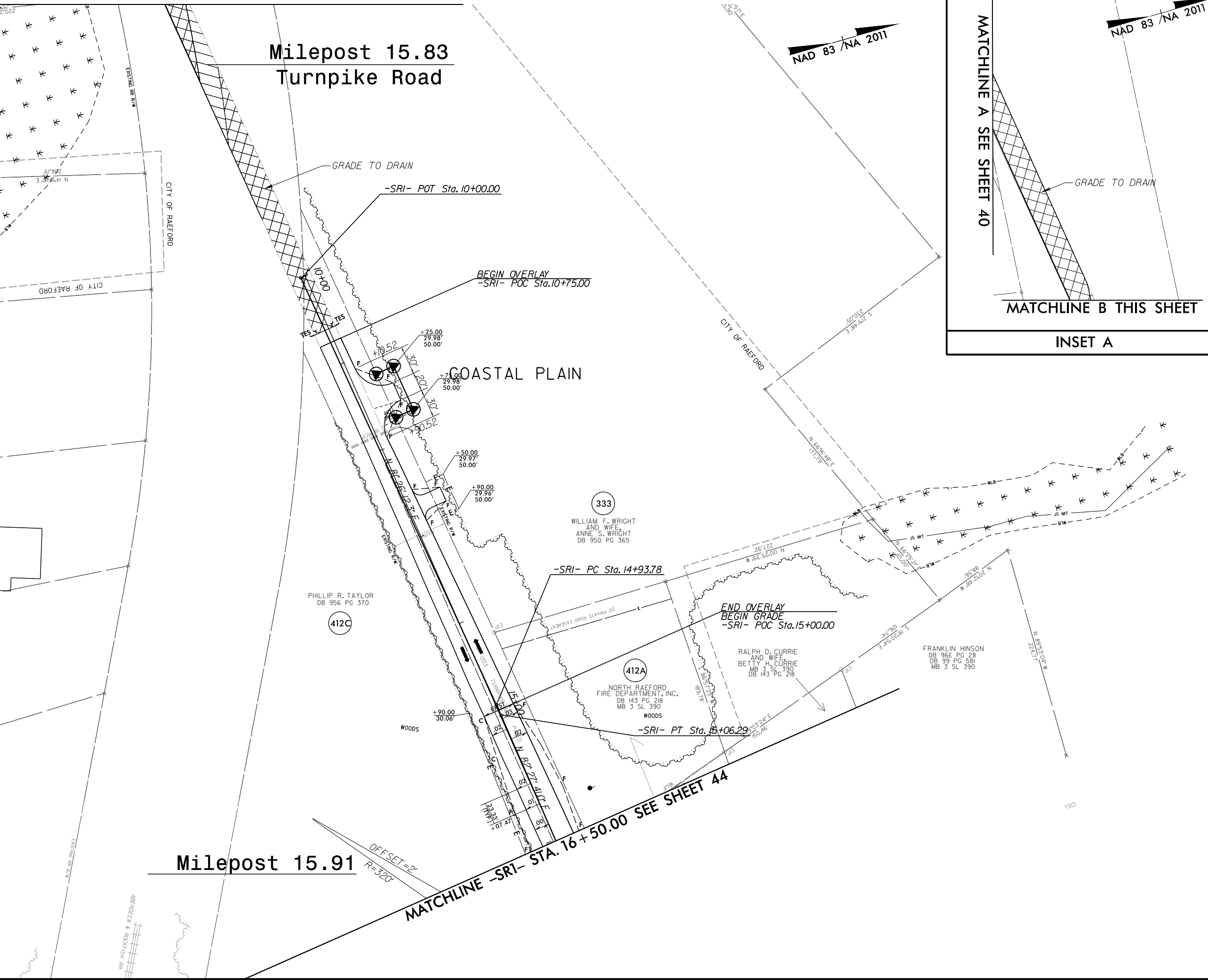
MATCHLINE A SEE SHEET 40

GRADE TO DRAIN

MATCHLINE B THIS SHEET

INSET A

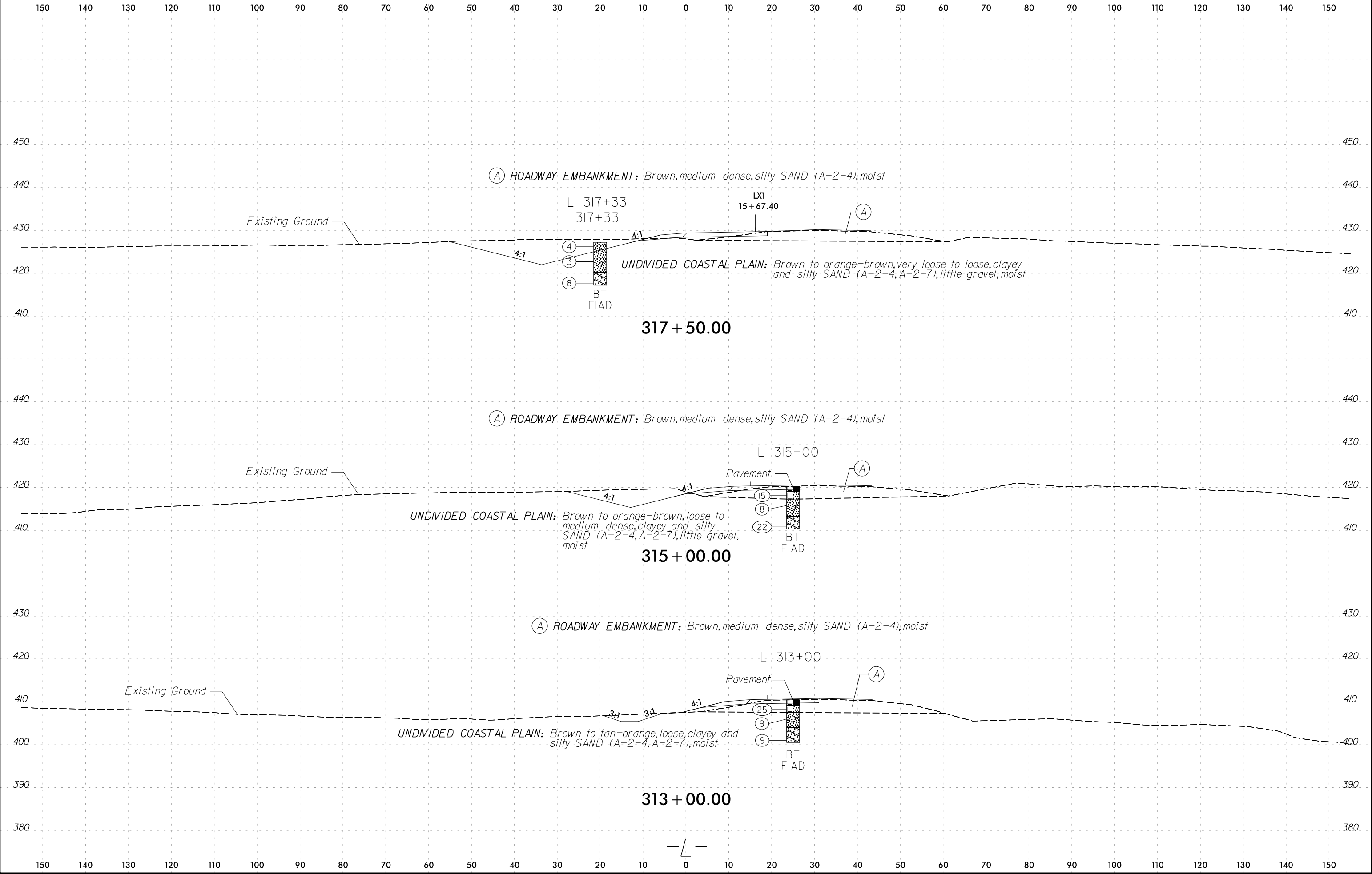
8/17/99
8/29/2024
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Milepost 15.91

MATCHLINE -SRI- STA. 16+50.00 SEE SHEET 44

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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

460 460

450 450

440 440

430 430

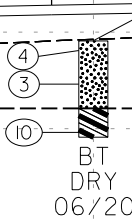
420 420

323 + 50.00

(A) ROADWAY EMBANKMENT: Brown, medium dense, silty SAND (A-2-4), moist

LX1 21+68.80 L 323+33 LX1RT 10+82.77

323+33



UNDIVIDED COASTAL PLAIN: Tan to tan-orange, very loose to loose, silty fine SAND (A-2-4), moist

Red-tan, stiff, sandy CLAY (A-6), trace mica, moist (Middendorf Formation)

Existing Ground

450 450

440 440

430 430

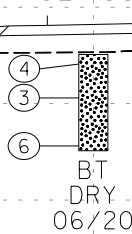
420 420

321 + 50.00

(A) ROADWAY EMBANKMENT: Brown, medium dense, silty SAND (A-2-4), moist

L 321+33 LX1

321+33



UNDIVIDED COASTAL PLAIN: Tan and brown, very loose to loose, silty fine to coarse SAND (A-2-4), trace roots, trace gravel, moist

Existing Ground

450 450

440 440

430 430

420 420

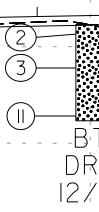
410 410

319 + 00.00

(A) ROADWAY EMBANKMENT: Brown, medium dense, silty SAND (A-2-4), moist

LX1 17+17.72

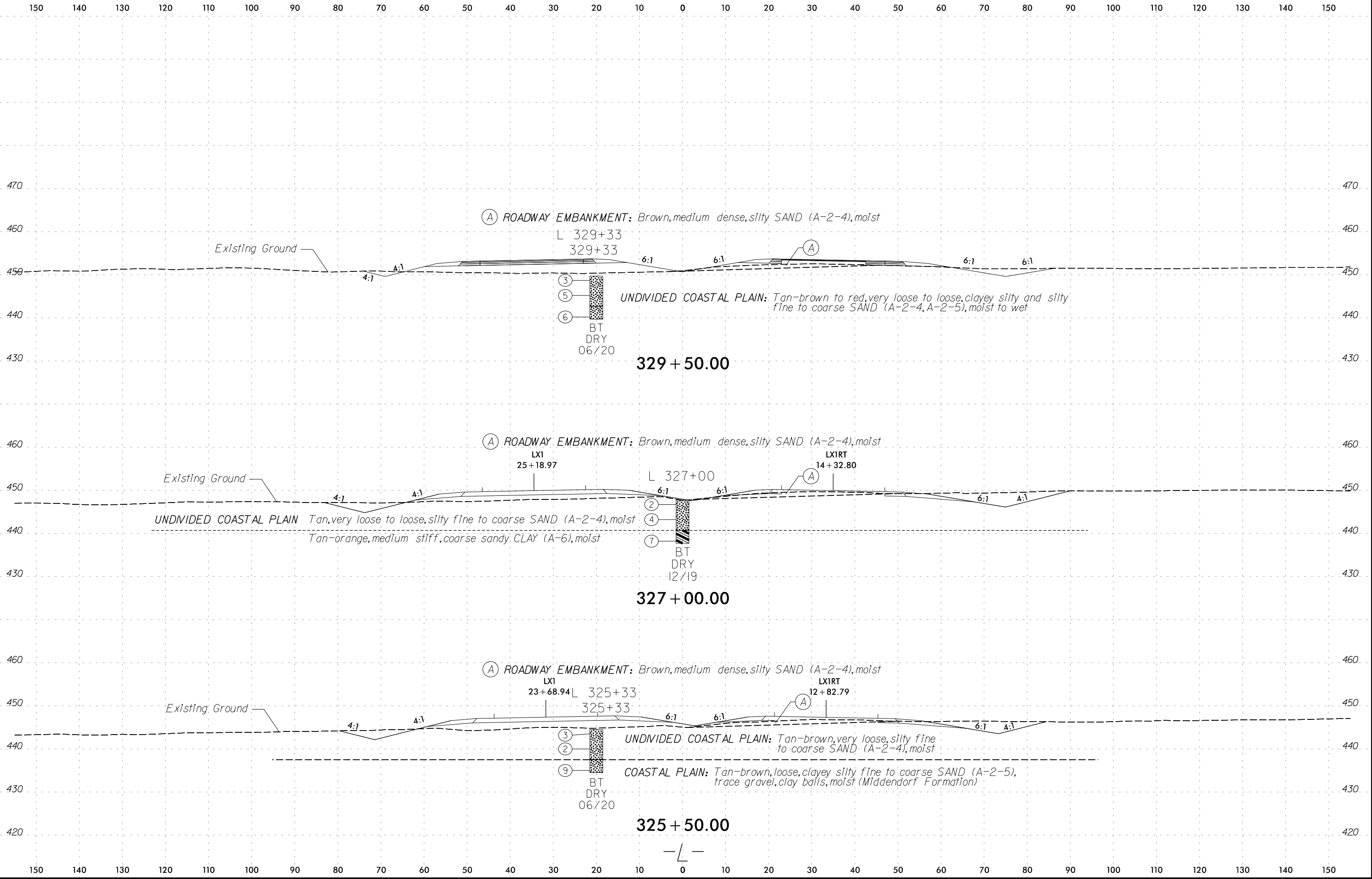
L 319+00

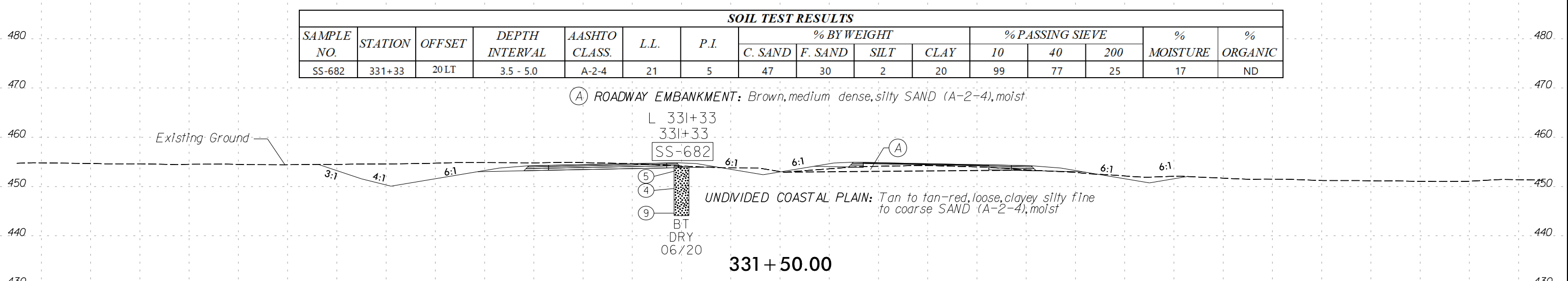
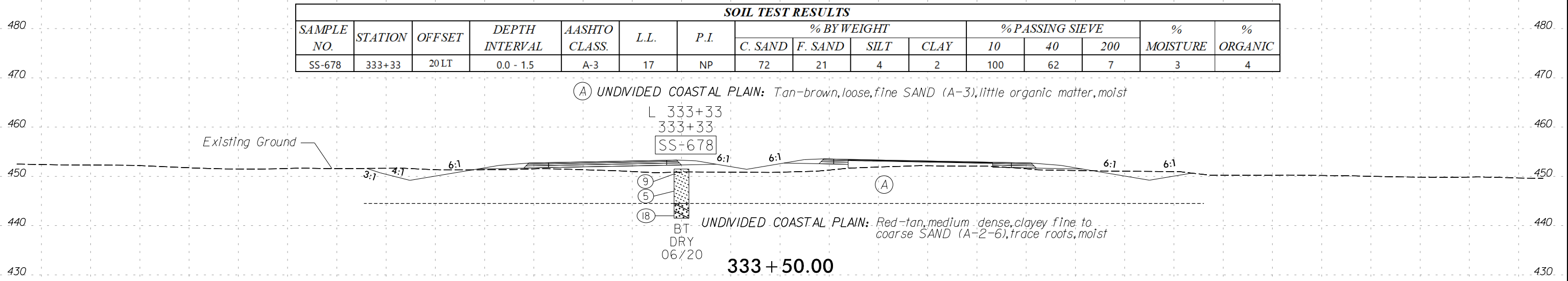
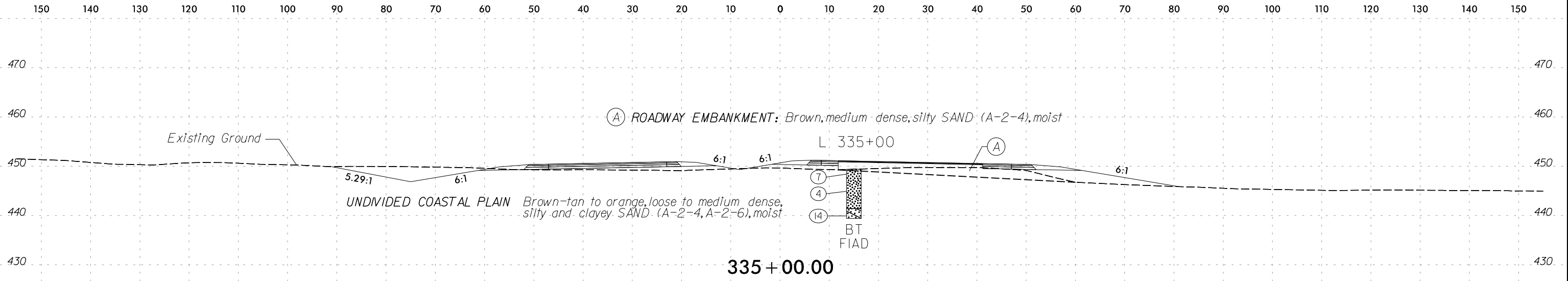


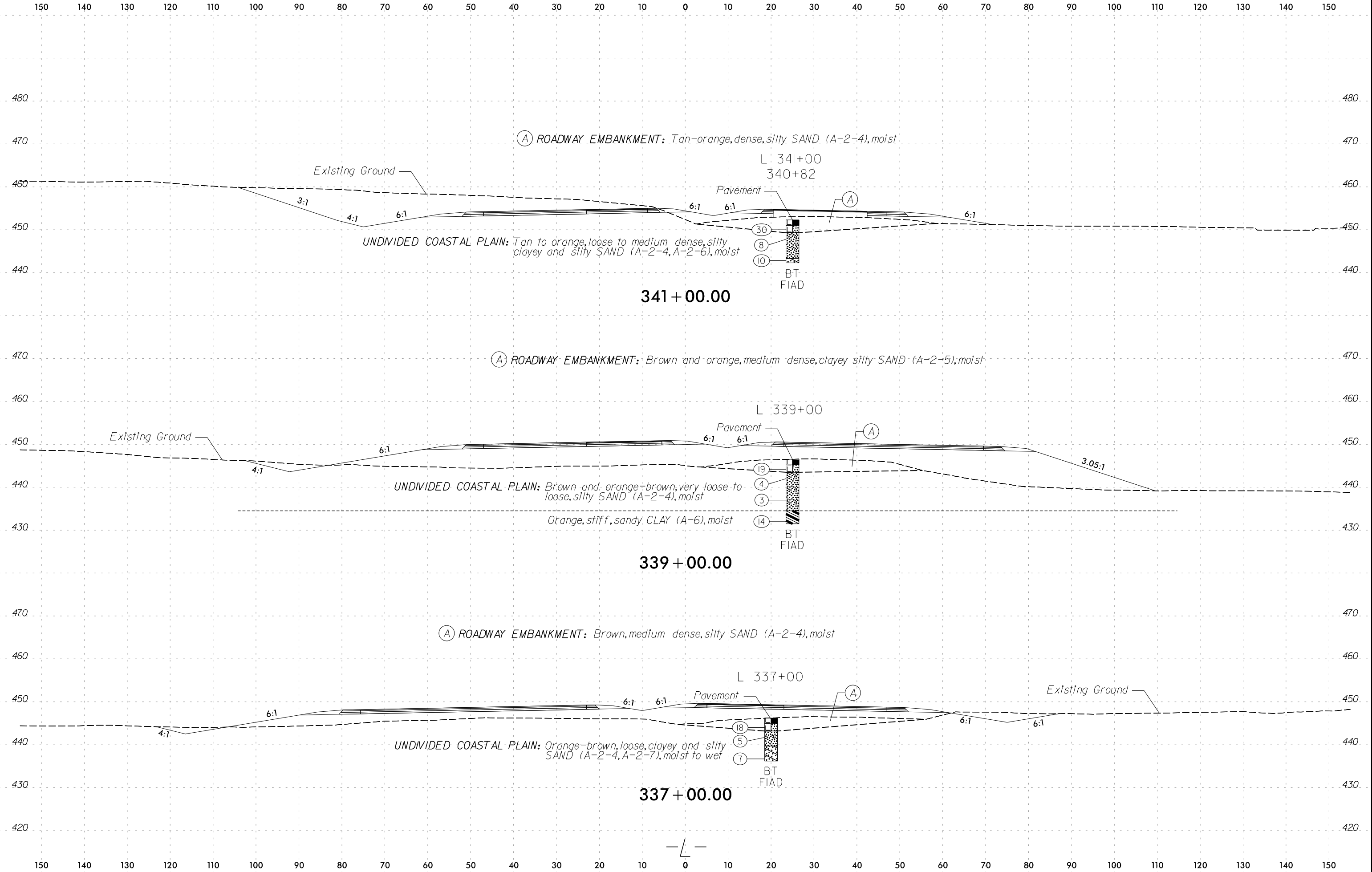
UNDIVIDED COASTAL PLAIN Tan to tan-grey, very loose to medium dense, clayey silty fine to coarse SAND (A-2-4), moist

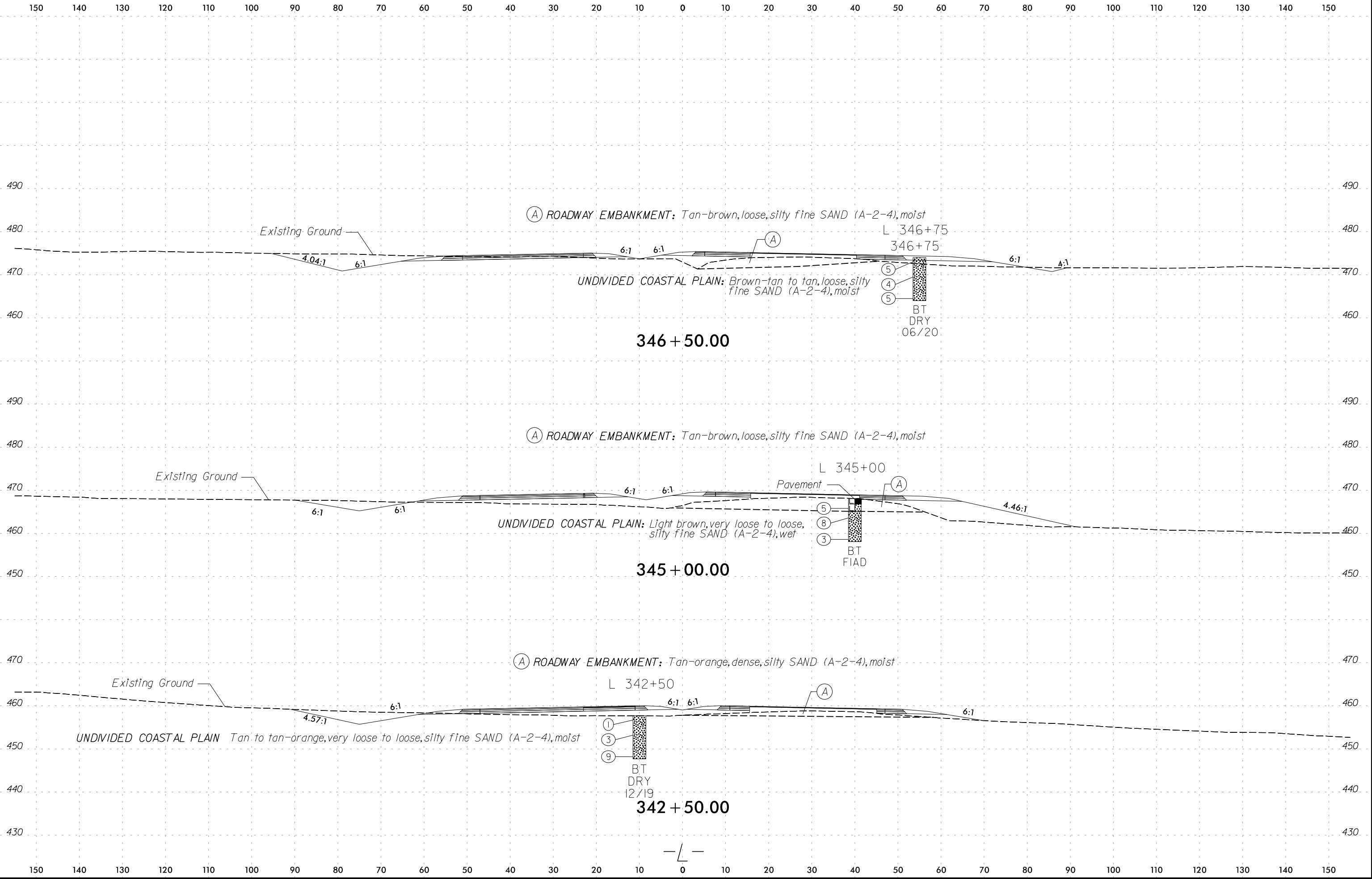
Existing Ground









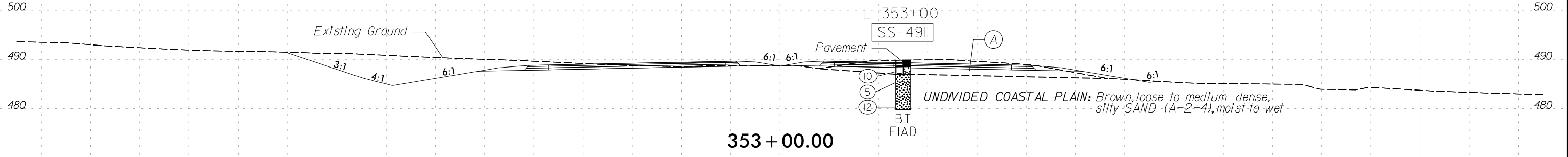


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530 520 510 500 490 480 500 490 480 470 460 510 500 490 480 470 460 510 500 490 480 470 460

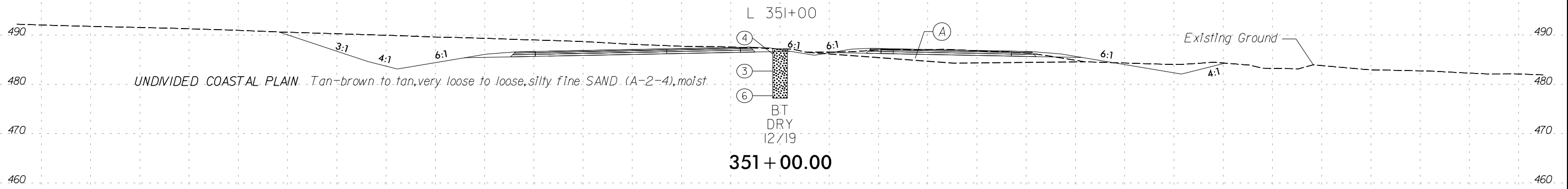
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-491	353+00	25 RT	1.3 - 2.8	A-2-6	30	12	59	15	3	22	94	60	25	ND	ND

(A) ROADWAY EMBANKMENT: Orange-brown, medium dense, silty slightly plastic clayey SAND (A-2-6), trace mica, moist



353 + 00.00

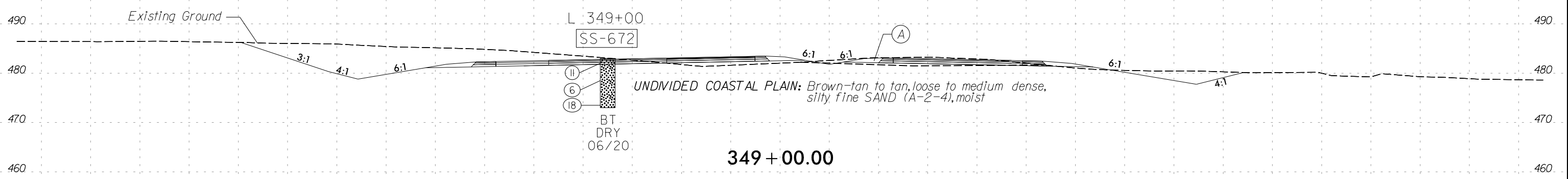
(A) ROADWAY EMBANKMENT: Orange-brown, medium dense, silty slightly plastic clayey SAND (A-2-6), trace mica, moist



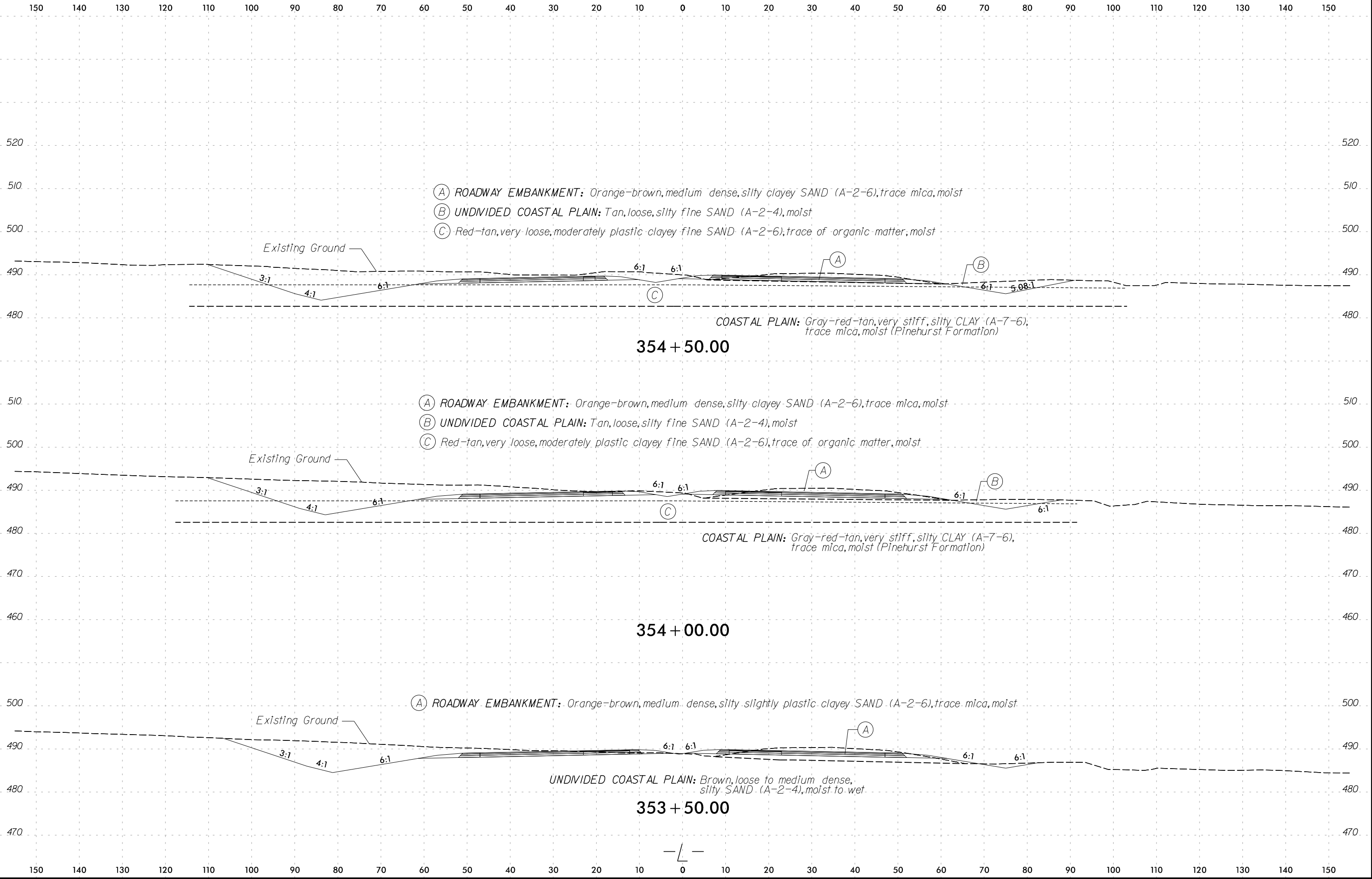
351 + 00.00

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-672	349+00	35 LT	0.0 - 1.5	A-2-4	15	NP	61	29	4	6	100	67	12	5	ND

(A) ROADWAY EMBANKMENT: Tan-brown, loose, silty fine SAND (A-2-4), moist



349 + 00.00



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

550 550

540 540

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-669	355+33	0 CL	0.0 - 1.5	A-2-4	15	NP	65	20	5	10	98	54	17	3	ND
SS-670	355+33	0 CL	3.5 - 5.0	A-2-6	40	16	57	13	2	28	98	54	31	18	ND

520 520

510 510

500 500

490 490

480 480

470 470

510 510

500 500

490 490

480 480

355 + 50.00

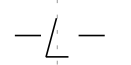
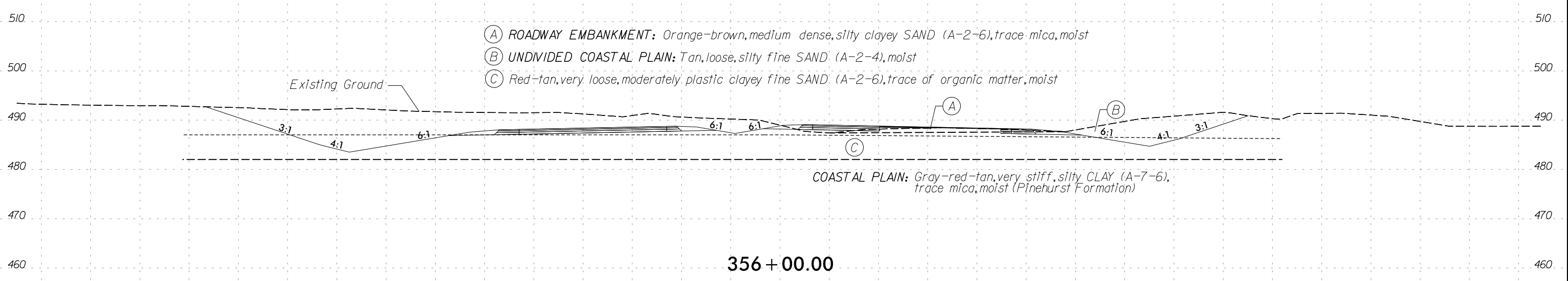
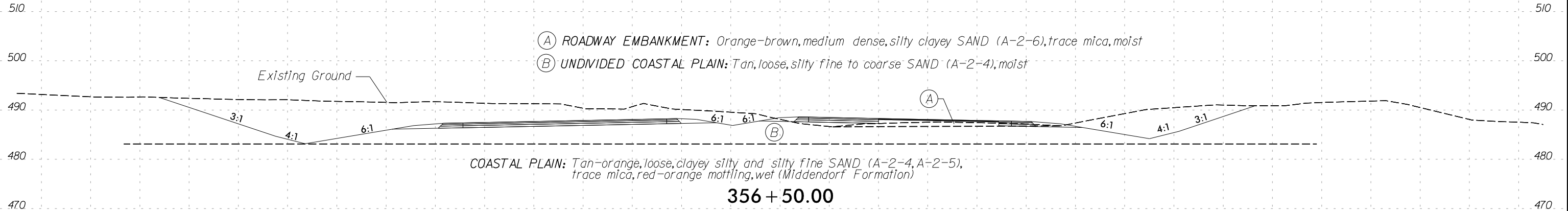
355 + 00.00

470 470

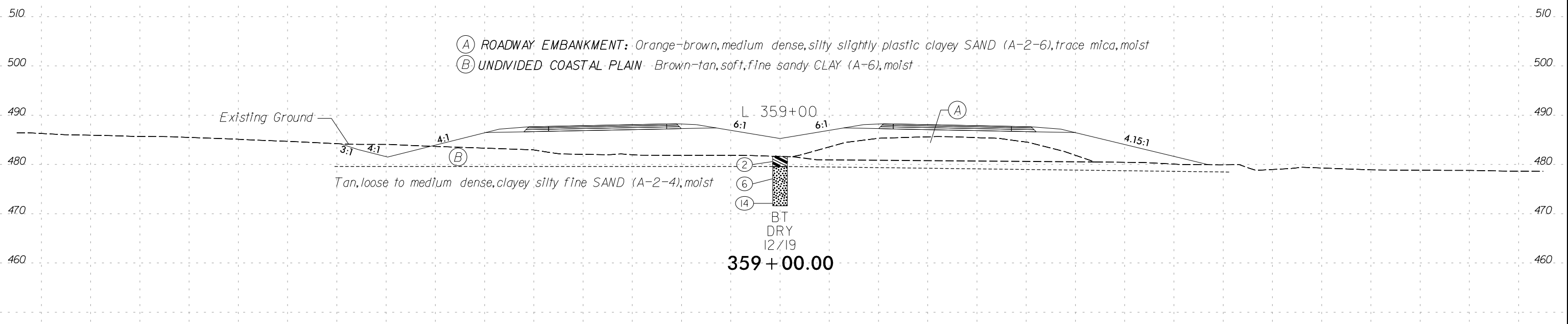
8/29/2024
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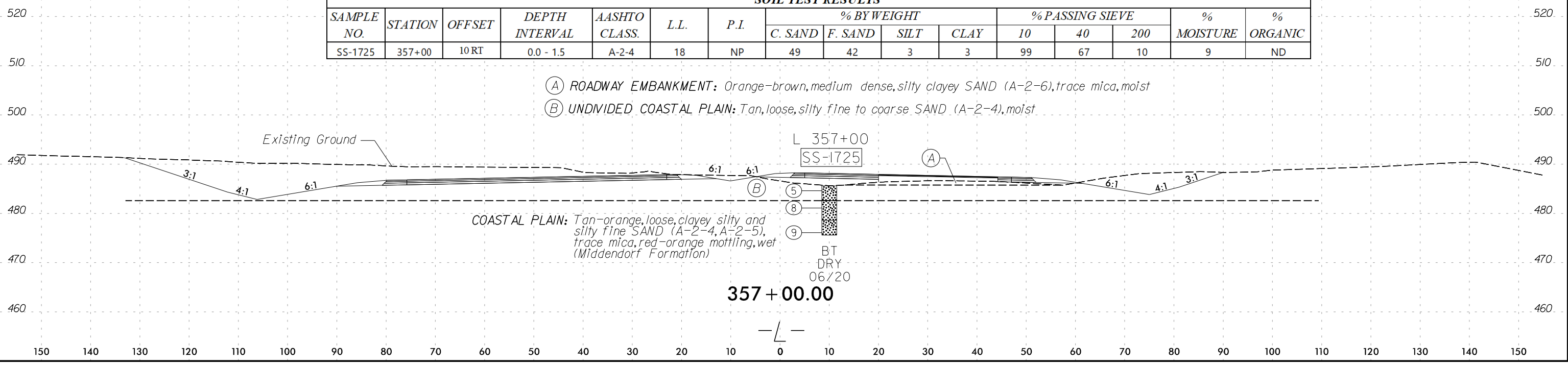
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1725	357+00	10 RT	0.0 - 1.5	A-2-4	18	NP	49	42	3	3	99	67	10	9	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

530

530

520

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SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-666	361+25	5 LT	0.0 - 1.5	A-2-4	18	NP	61	27	3	10	100	64	15	5	ND

- (A) ROADWAY EMBANKMENT: Orange-brown, medium dense, silty clayey SAND (A-2-6), trace mica, moist
- (B) COASTAL PLAIN: Tan-brown, medium stiff, sandy CLAY (A-6), trace mica, moist (Middendorf Formation)

L 361+25
 361+25
 SS-666
 6:1
 (5)
 (6)
 (7)
 BT
 DRY
 06/20

Tan-red, medium stiff, sandy SILT (A-4), trace mica, moist

361 + 00.00



Existing Ground

6:1

6:1

6:1

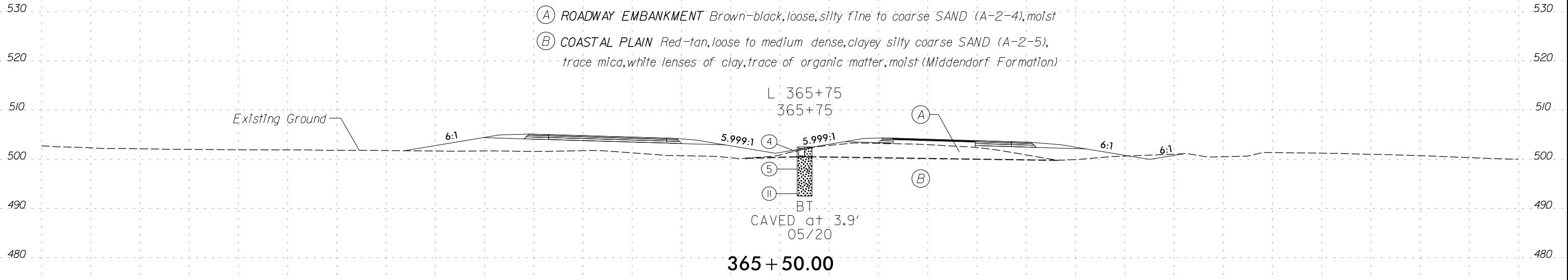
6:1

4.46:1

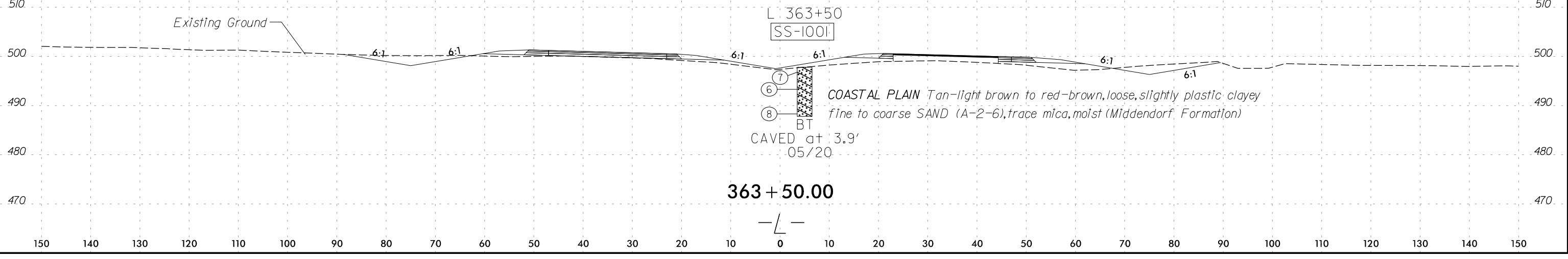
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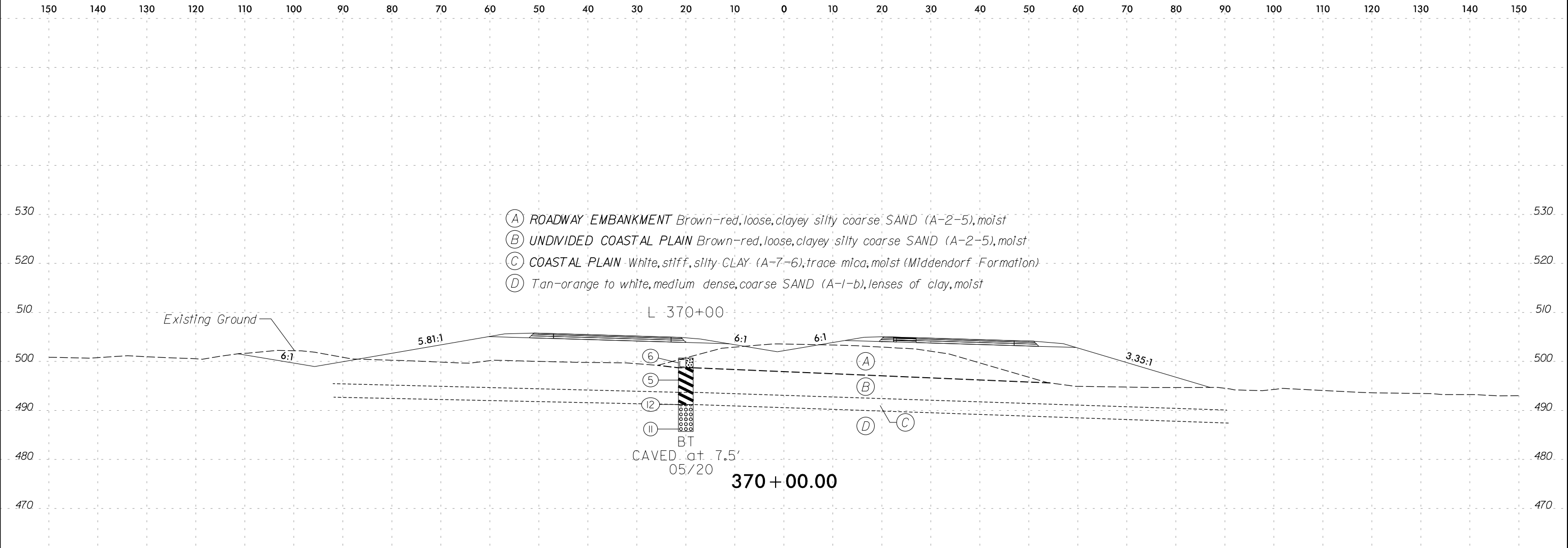
3:1 482.38

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



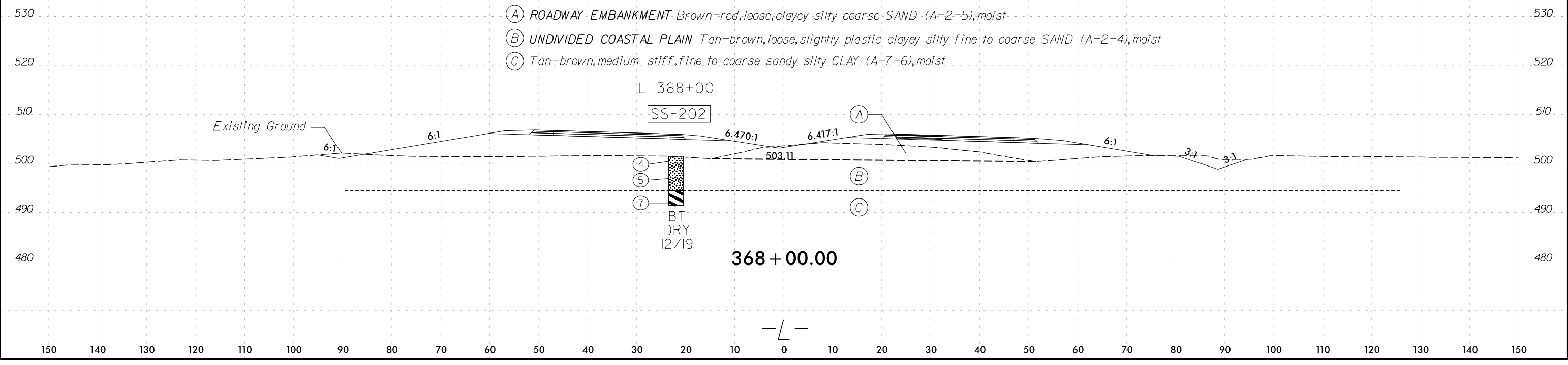
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1001	363+50	5' RT	3.5 - 5.0	A-2-6 (0)	32	14	61.0	14.0	1.0	24.0	97.0	52.0	25.0	20.0	ND



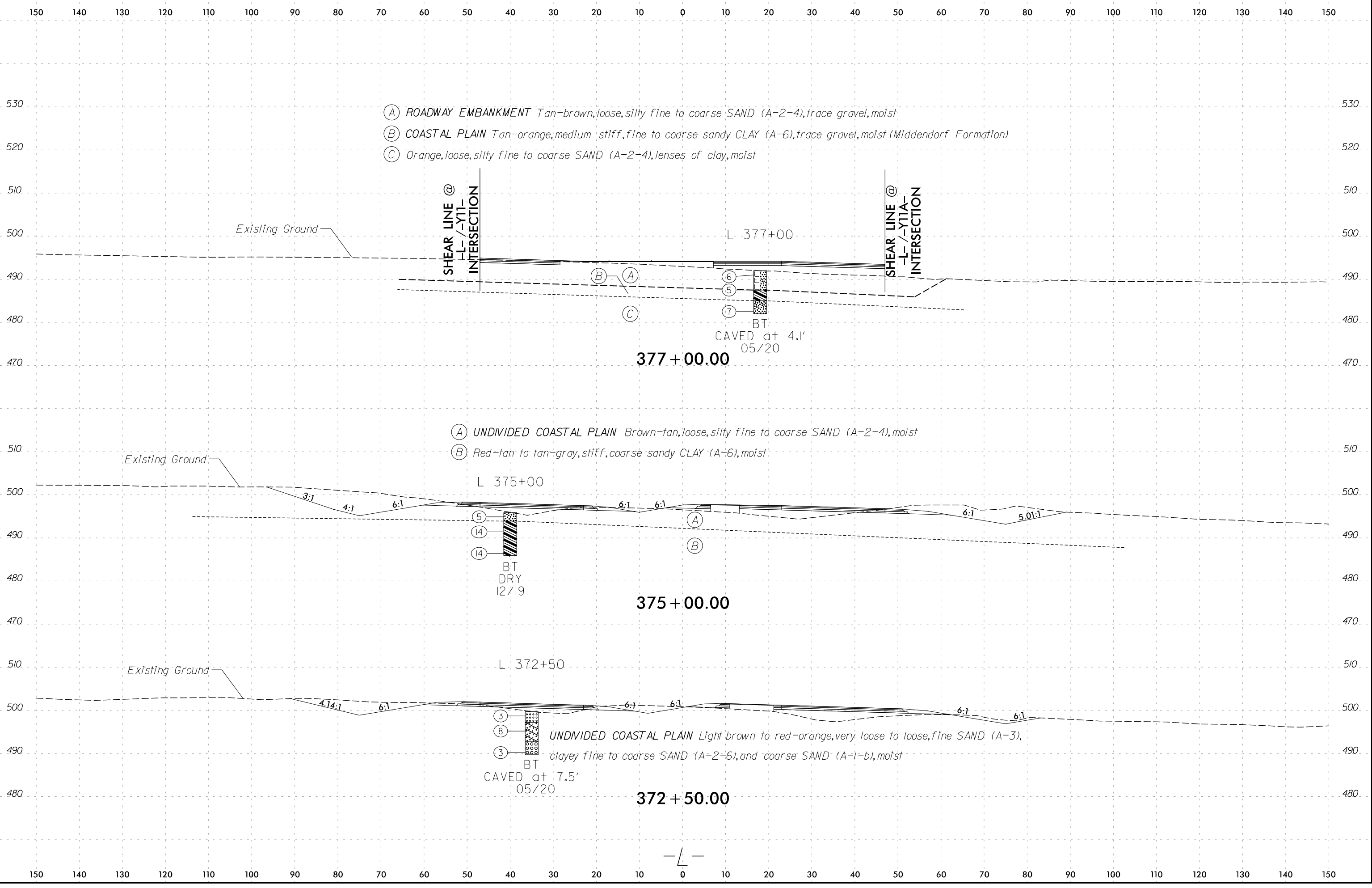


- (A) ROADWAY EMBANKMENT Brown-red, loose, clayey silty coarse SAND (A-2-5), moist
- (B) UNDIVIDED COASTAL PLAIN Brown-red, loose, clayey silty coarse SAND (A-2-5), moist
- (C) COASTAL PLAIN White, stiff, silty CLAY (A-7-6), trace mica, moist (Middendorf Formation)
- (D) Tan-orange to white, medium dense, coarse SAND (A-1-b), lenses of clay, moist

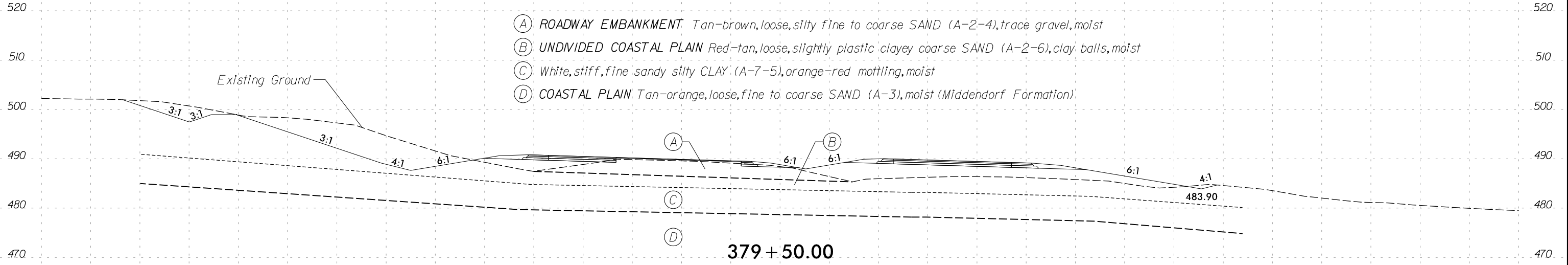
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-202	368+00	22' LT	3.5 - 5.0	A-2-4	34	8	44.0	30.0	2.0	24.0	99.0	76.0	27.0	16.5	ND



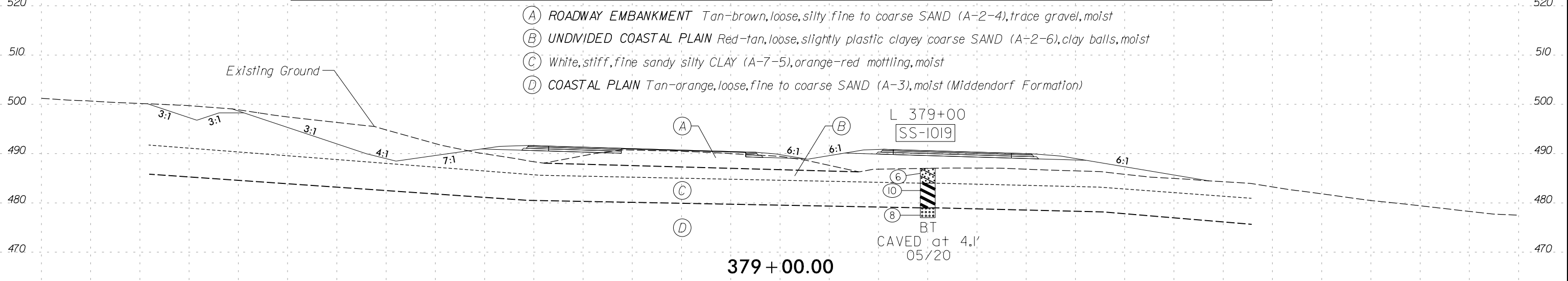
- (A) ROADWAY EMBANKMENT Brown-red, loose, clayey silty coarse SAND (A-2-5), moist
- (B) UNDIVIDED COASTAL PLAIN Tan-brown, loose, slightly plastic, clayey silty fine to coarse SAND (A-2-4), moist
- (C) Tan-brown, medium stiff, fine to coarse sandy silty CLAY (A-7-6), moist



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



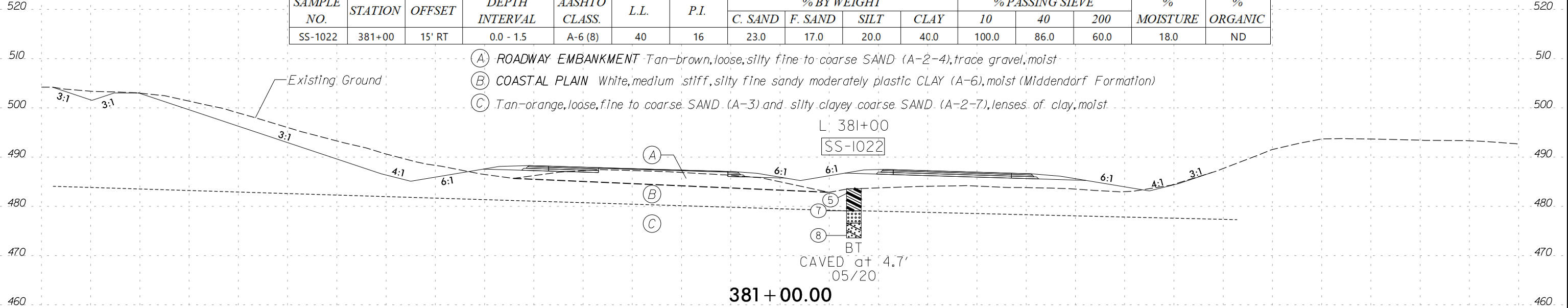
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1019	379+00	30' RT	0.0 - 1.5	A-2-6 (0)	31	11	69.0	10.0	1.0	20.0	94.0	25.0	22.0	10.0	ND



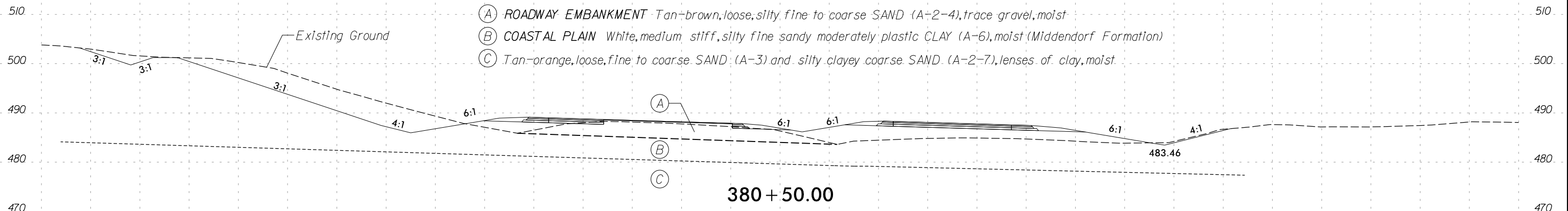
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1022	381+00	15' RT	0.0 - 1.5	A-6 (8)	40	16	23.0	17.0	20.0	40.0	100.0	86.0	60.0	18.0	ND

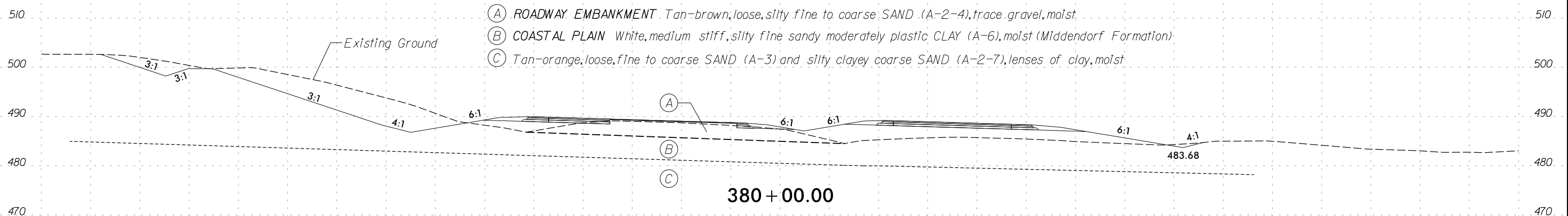
- (A) ROADWAY EMBANKMENT Tan-brown, loose, silty fine to coarse SAND (A-2-4), trace gravel, moist
- (B) COASTAL PLAIN White, medium stiff, silty fine sandy moderately plastic CLAY (A-6), moist (Middendorf Formation)
- (C) Tan-orange, loose, fine to coarse SAND (A-3) and silty clayey coarse SAND (A-2-7), lenses of clay, moist



- (A) ROADWAY EMBANKMENT Tan-brown, loose, silty fine to coarse SAND (A-2-4), trace gravel, moist
- (B) COASTAL PLAIN White, medium stiff, silty fine sandy moderately plastic CLAY (A-6), moist (Middendorf Formation)
- (C) Tan-orange, loose, fine to coarse SAND (A-3) and silty clayey coarse SAND (A-2-7), lenses of clay, moist

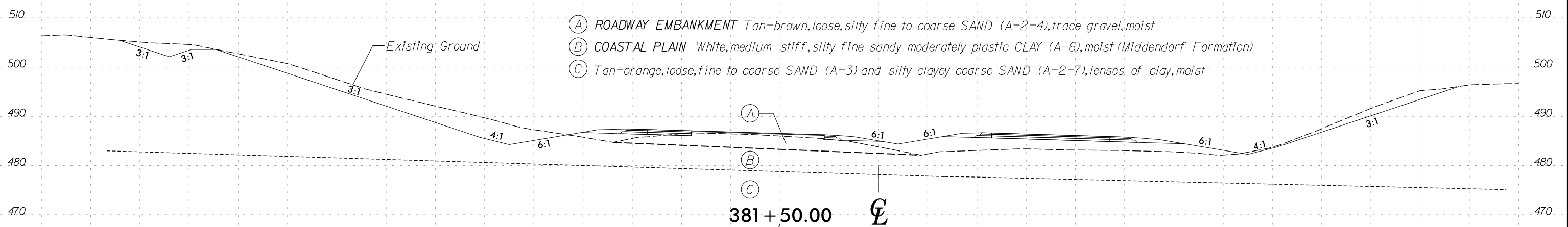
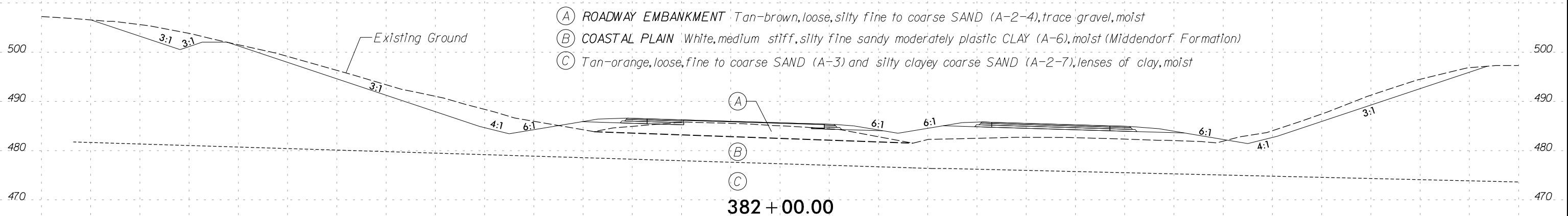
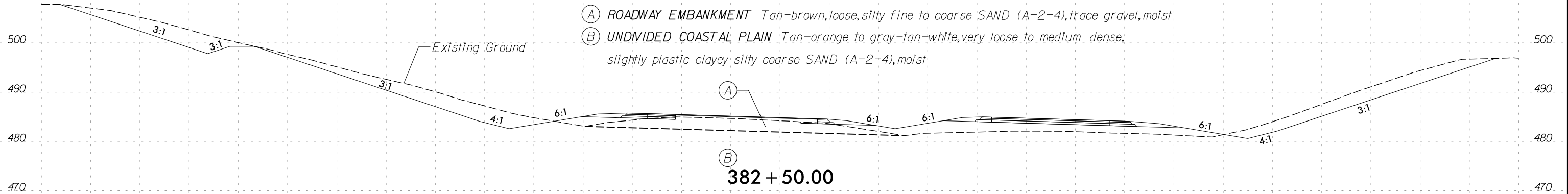


- (A) ROADWAY EMBANKMENT Tan-brown, loose, silty fine to coarse SAND (A-2-4), trace gravel, moist
- (B) COASTAL PLAIN White, medium stiff, silty fine sandy moderately plastic CLAY (A-6), moist (Middendorf Formation)
- (C) Tan-orange, loose, fine to coarse SAND (A-3) and silty clayey coarse SAND (A-2-7), lenses of clay, moist

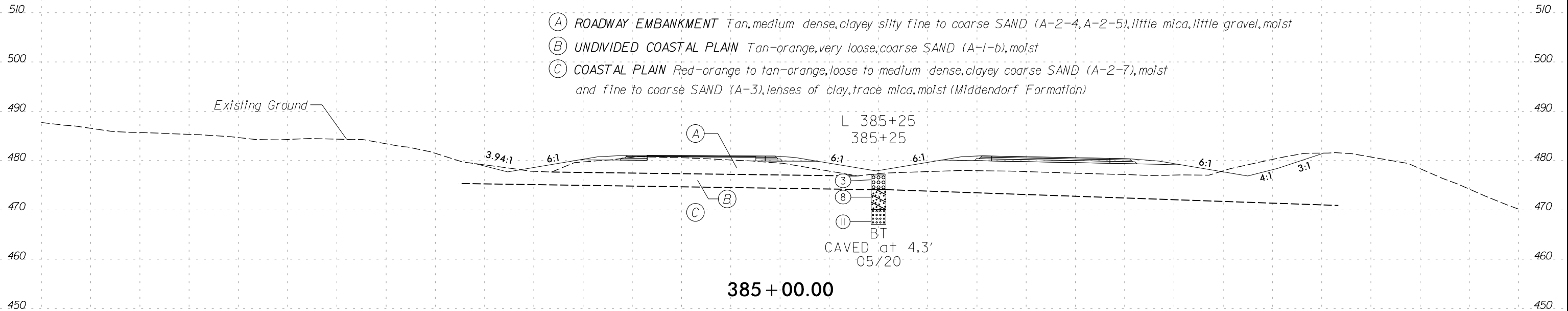


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

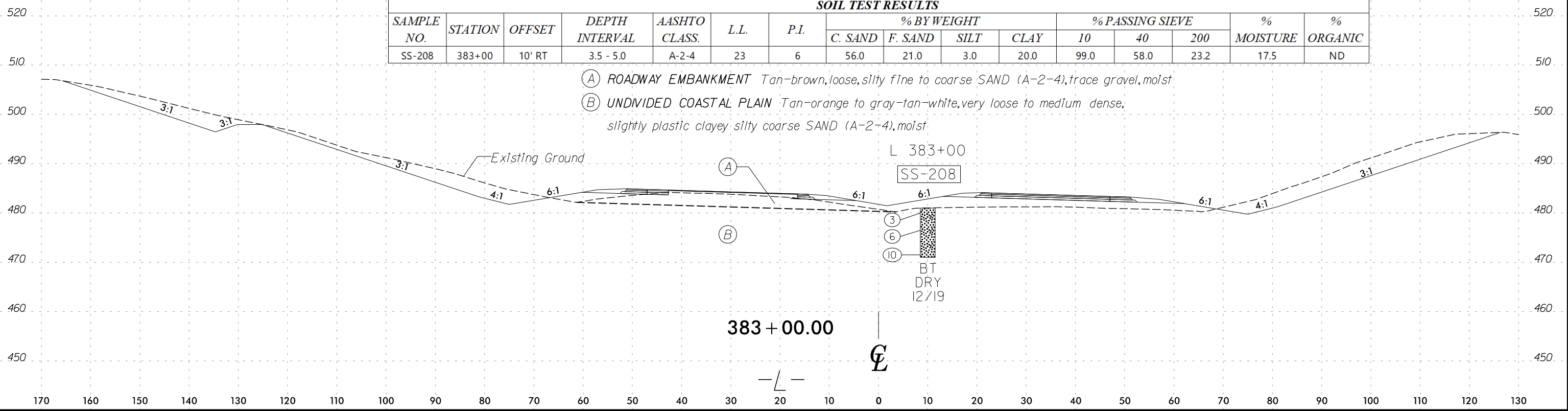
170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



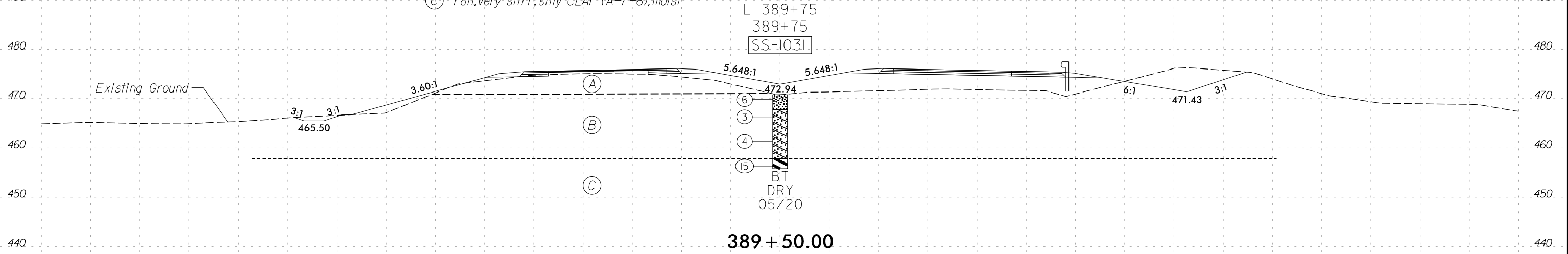
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-208	383+00	10' RT	3.5 - 5.0	A-2-4	23	6	56.0	21.0	3.0	20.0	99.0	58.0	23.2	17.5	ND



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

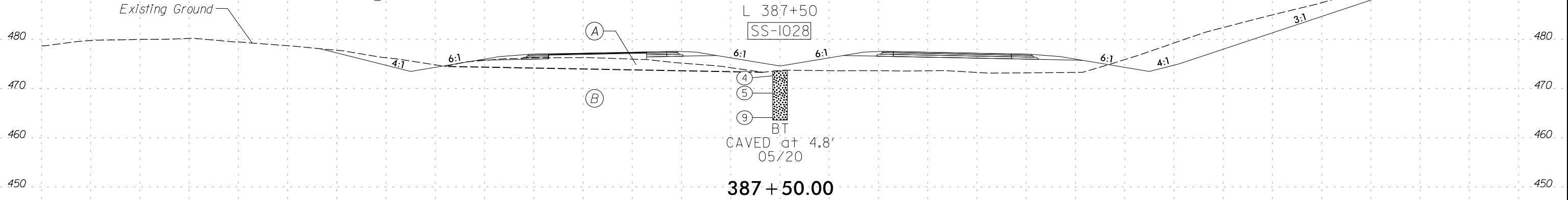
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1031	389+75	0' CL	0 - 1.5	A-2-4	22	NP	35.0	45.0	2.0	18.0	100.0	94.0	21.0	11.0	ND

- (A) ROADWAY EMBANKMENT Tan, medium dense, clayey silty fine to coarse SAND (A-2-4, A-2-5), little mica, little gravel, moist
- (B) COASTAL PLAIN Tan-orange, very loose to loose, clayey fine to coarse SAND (A-2-6), moist (Middendorf Formation)
- (C) Tan, very stiff, silty CLAY (A-7-6), moist



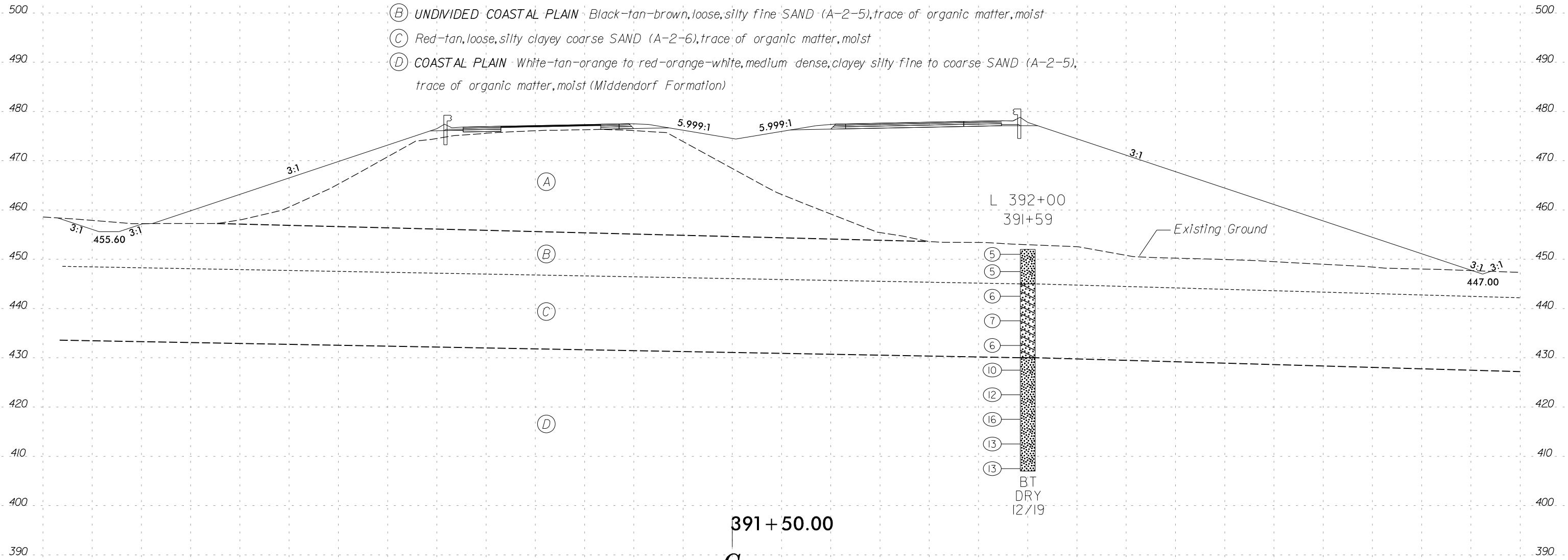
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1028	387+50	0' CL	0.0 - 1.5	A-2-4	20	NP	53.0	29.0	8.0	10.0	98.0	71.0	18.0	12.0	ND

- (A) ROADWAY EMBANKMENT Tan, medium dense, clayey silty fine to coarse SAND (A-2-4, A-2-5), little mica, little gravel, moist
- (B) COASTAL PLAIN Tan-orange, loose, clayey silty fine to coarse SAND (A-2-4), lenses of clay, moist to wet (Middendorf Formation)



140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

- (A) ROADWAY EMBANKMENT Tan, medium dense, clayey silty fine to coarse SAND (A-2-4, A-2-5), little mica, little gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Black-tan-brown, loose, silty fine SAND (A-2-5), trace of organic matter, moist
- (C) Red-tan, loose, silty clayey coarse SAND (A-2-6), trace of organic matter, moist
- (D) COASTAL PLAIN White-tan-orange to red-orange-white, medium dense, clayey silty fine to coarse SAND (A-2-5), trace of organic matter, moist (Middendorf Formation)

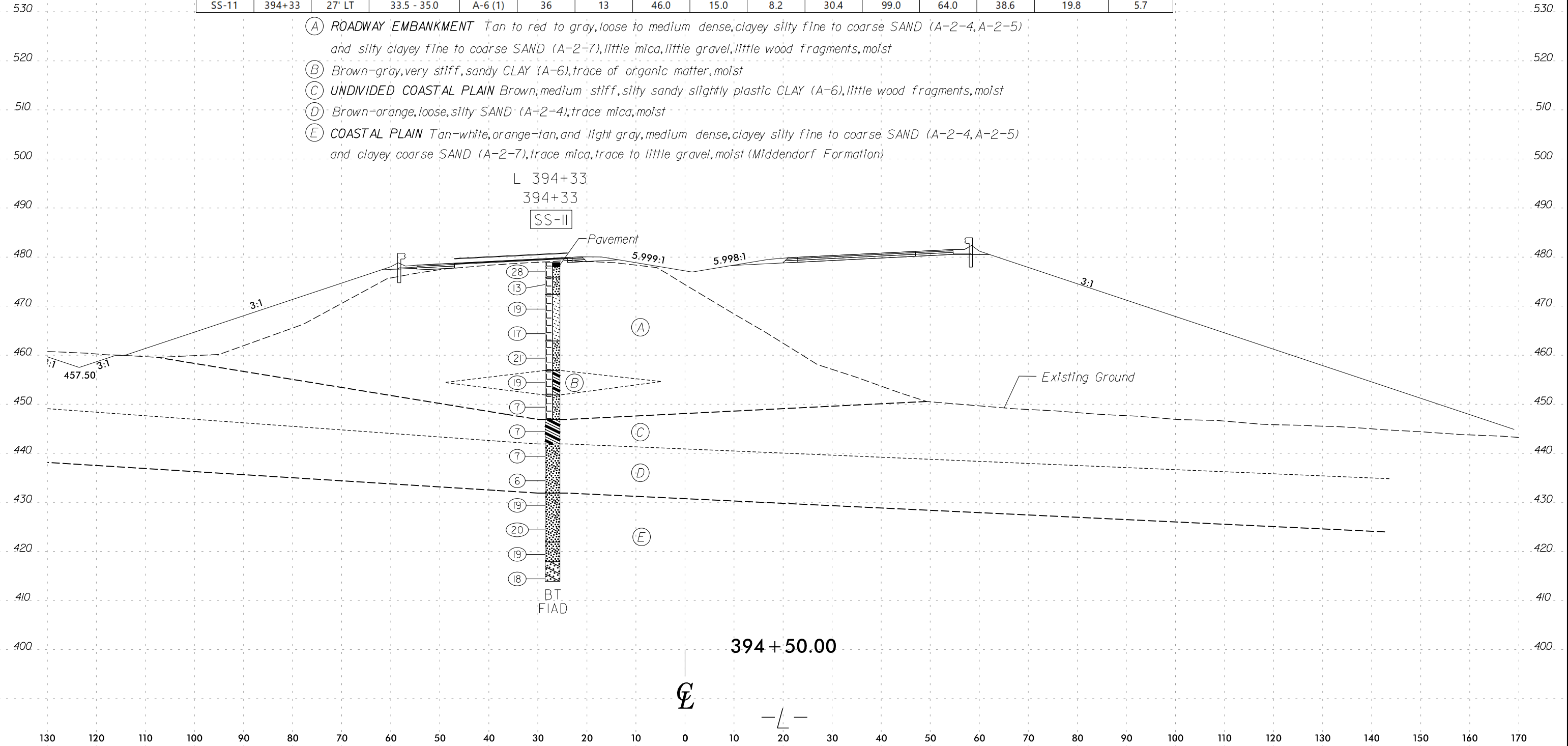


140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

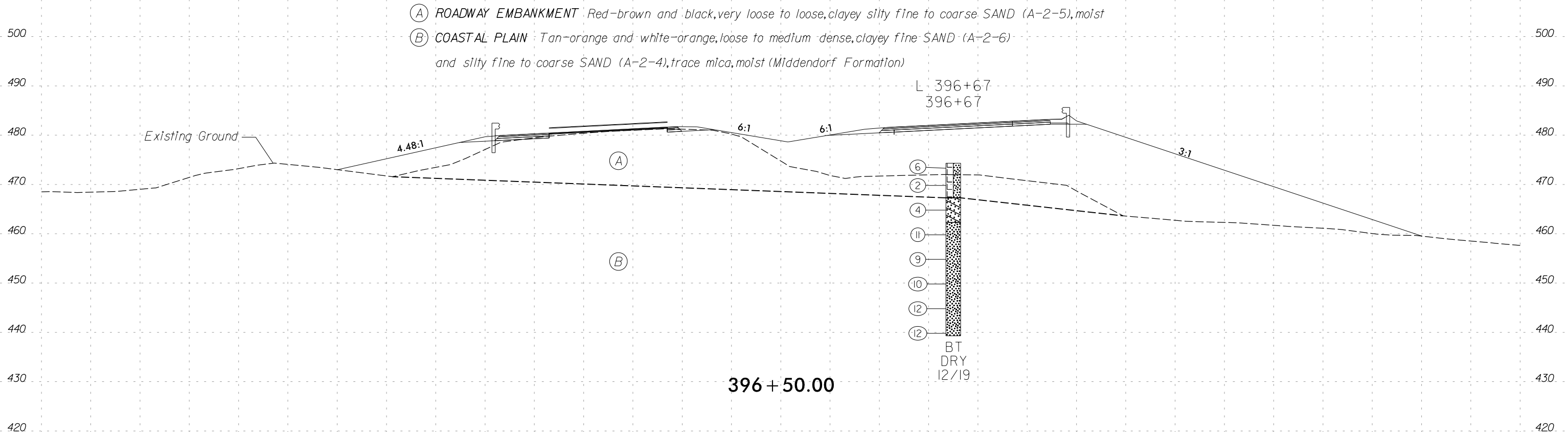
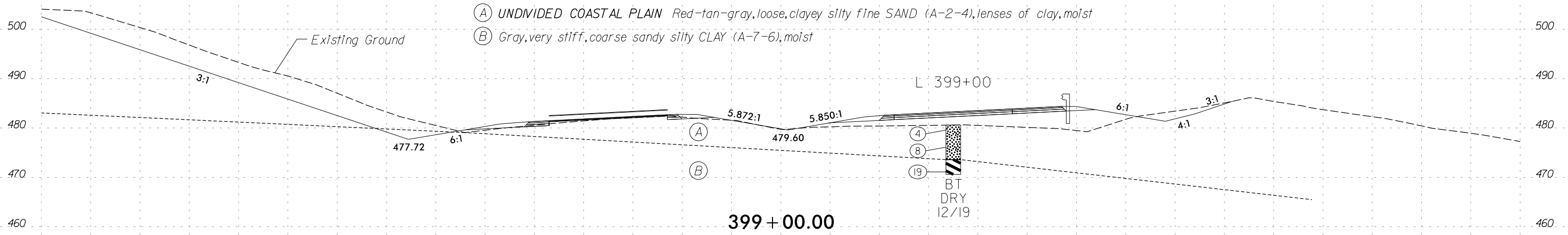
130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-11	394+33	27' LT	33.5 - 35.0	A-6 (1)	36	13	46.0	15.0	8.2	30.4	99.0	64.0	38.6	19.8	5.7

- (A) ROADWAY EMBANKMENT Tan to red to gray, loose to medium dense, clayey silty fine to coarse SAND (A-2-4, A-2-5) and silty clayey fine to coarse SAND (A-2-7), little mica, little gravel, little wood fragments, moist
- (B) Brown-gray, very stiff, sandy CLAY (A-6), trace of organic matter, moist
- (C) UNDIVIDED COASTAL PLAIN Brown, medium stiff, silty sandy slightly plastic CLAY (A-6), little wood fragments, moist
- (D) Brown-orange, loose, silty SAND (A-2-4), trace mica, moist
- (E) COASTAL PLAIN Tan-white, orange-tan, and light gray, medium dense, clayey silty fine to coarse SAND (A-2-4, A-2-5) and clayey coarse SAND (A-2-7), trace mica, trace to little gravel, moist (Middendorf Formation)



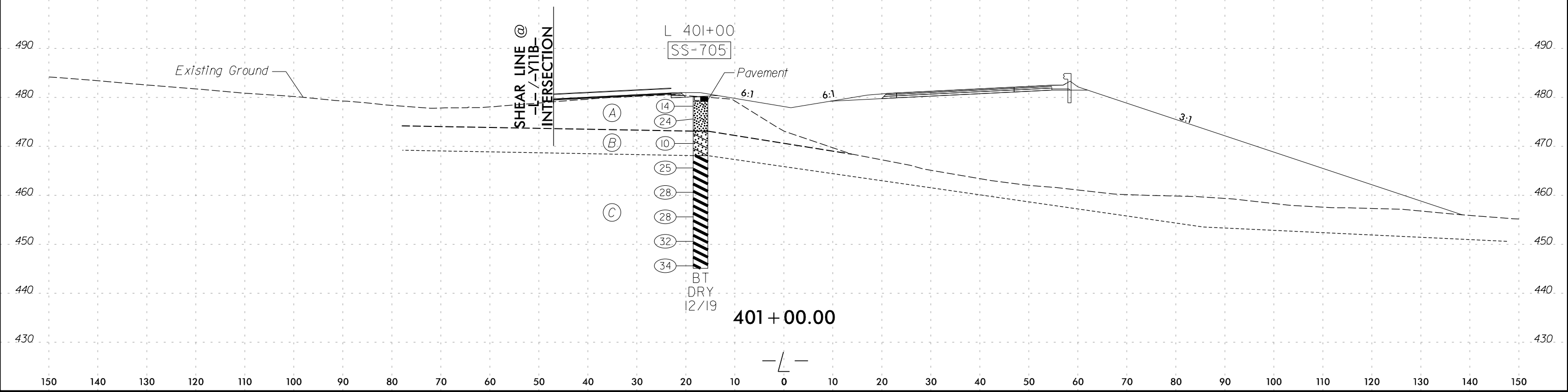
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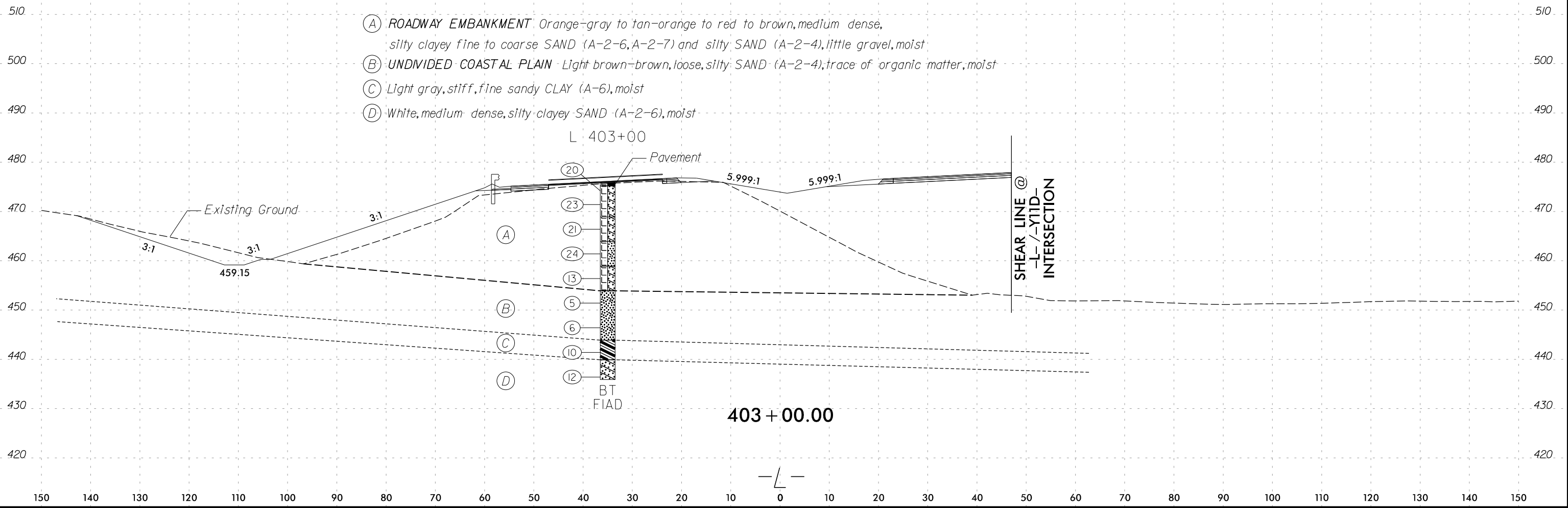
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SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-705	401+00	35' RT	13.5 - 15.0	A-7-5(20)	23	7	0.4	7.3	11.8	80.5	100.0	100.0	92.3	17.5	ND

- (A) UNDIVIDED COASTAL PLAIN Tan-orange, medium dense, silty fine SAND (A-2-4), lenses of clay, moist
- (B) COASTAL PLAIN Red-orange, medium dense, clayey fine to coarse SAND (A-2-6), lenses of clay, moist (Middendorf Formation)
- (C) Tan-gray-purple, very stiff to hard, silty highly plastic CLAY (A-7-5), moist



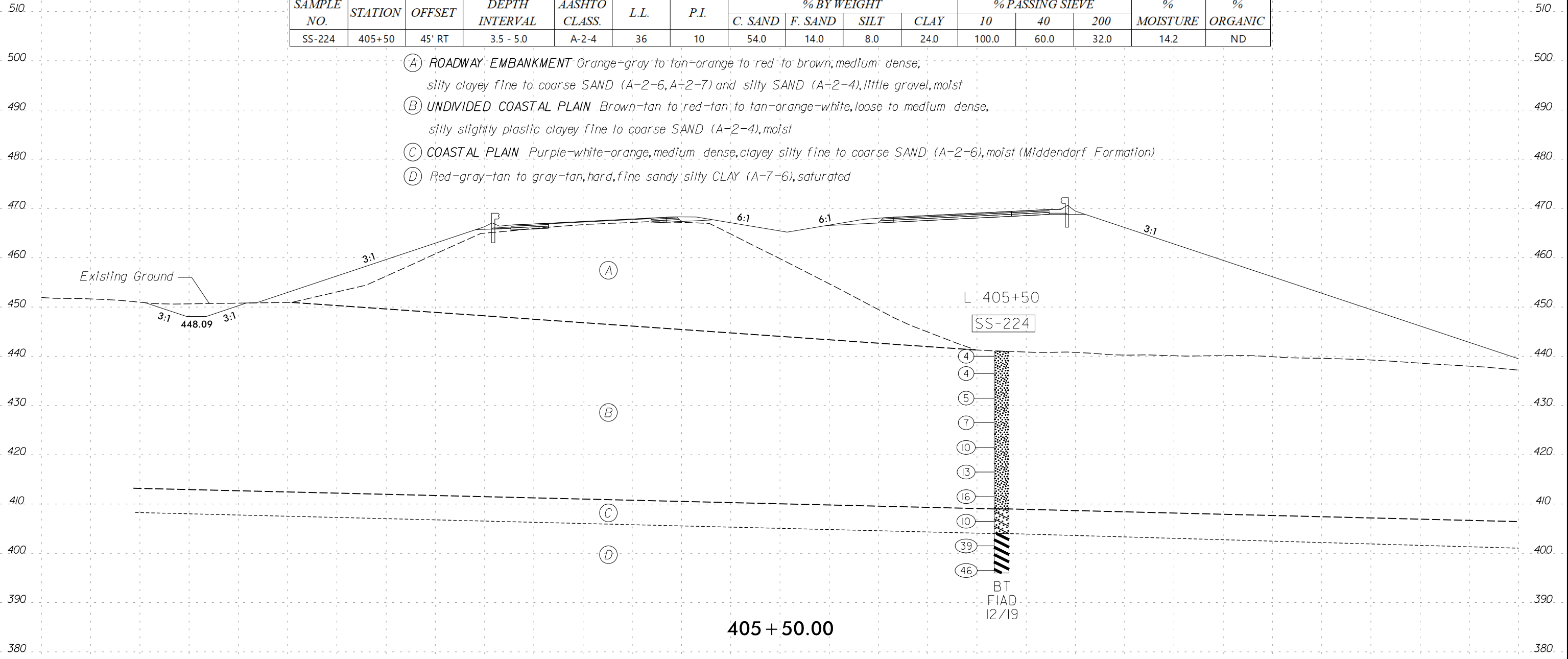
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-224	405+50	45' RT	3.5 - 5.0	A-2-4	36	10	54.0	14.0	8.0	24.0	100.0	60.0	32.0	14.2	ND

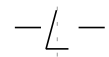
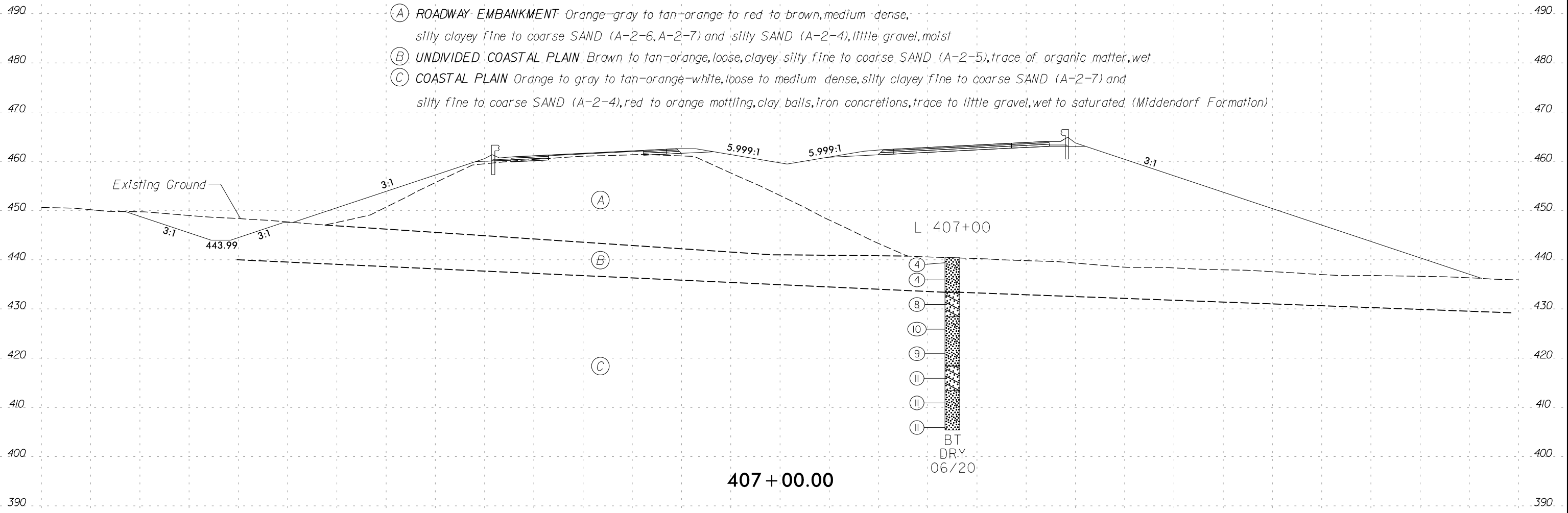
- (A) ROADWAY EMBANKMENT Orange-gray to tan-orange to red to brown, medium dense, silty clayey fine to coarse SAND (A-2-6, A-2-7) and silty SAND (A-2-4), little gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Brown-tan to red-tan to tan-orange-white, loose to medium dense, silty slightly plastic clayey fine to coarse SAND (A-2-4), moist
- (C) COASTAL PLAIN Purple-white-orange, medium dense, clayey silty fine to coarse SAND (A-2-6), moist (Middendorf Formation)
- (D) Red-gray-tan to gray-tan, hard, fine sandy silty CLAY (A-7-6), saturated



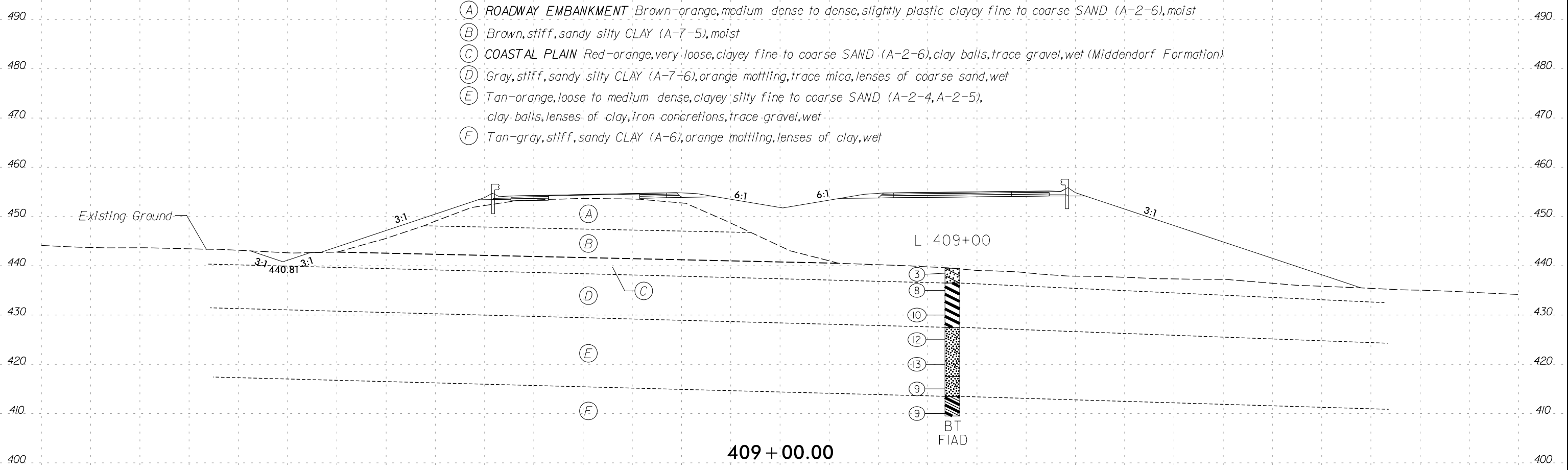
405 + 50.00



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



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) ROADWAY EMBANKMENT Brown-orange, medium dense to dense, slightly plastic clayey fine to coarse SAND (A-2-6), moist
- (B) Brown, stiff, sandy silty CLAY (A-7-5), moist
- (C) COASTAL PLAIN Red-orange, very loose, clayey fine to coarse SAND (A-2-6), clay balls, trace gravel, wet (Middendorf Formation)
- (D) Gray, stiff, sandy silty CLAY (A-7-6), orange mottling, trace mica, lenses of coarse sand, wet
- (E) Tan-orange, loose to medium dense, clayey silty fine to coarse SAND (A-2-4, A-2-5), clay balls, lenses of clay, iron concretions, trace gravel, wet
- (F) Tan-gray, stiff, sandy CLAY (A-6), orange mottling, lenses of clay, wet

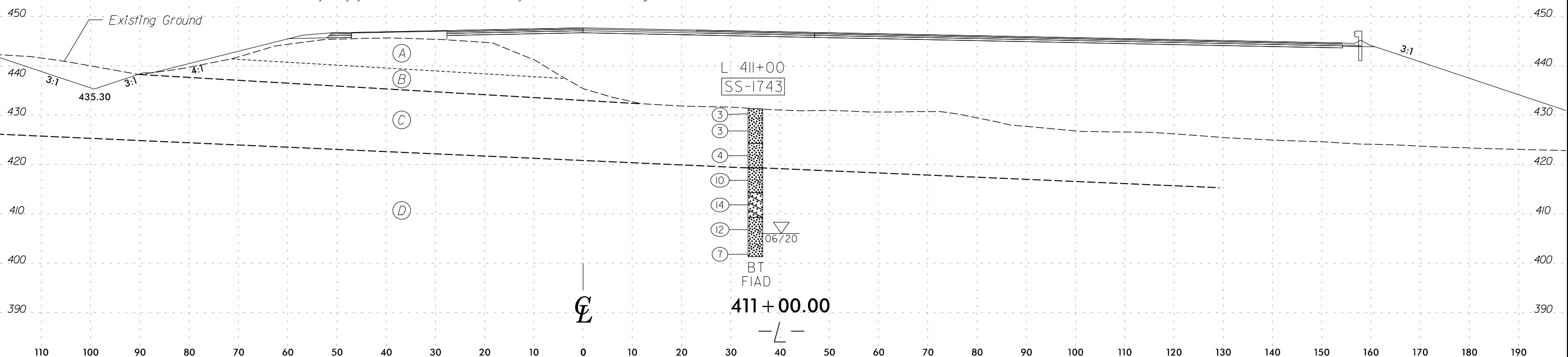
409 + 00.00

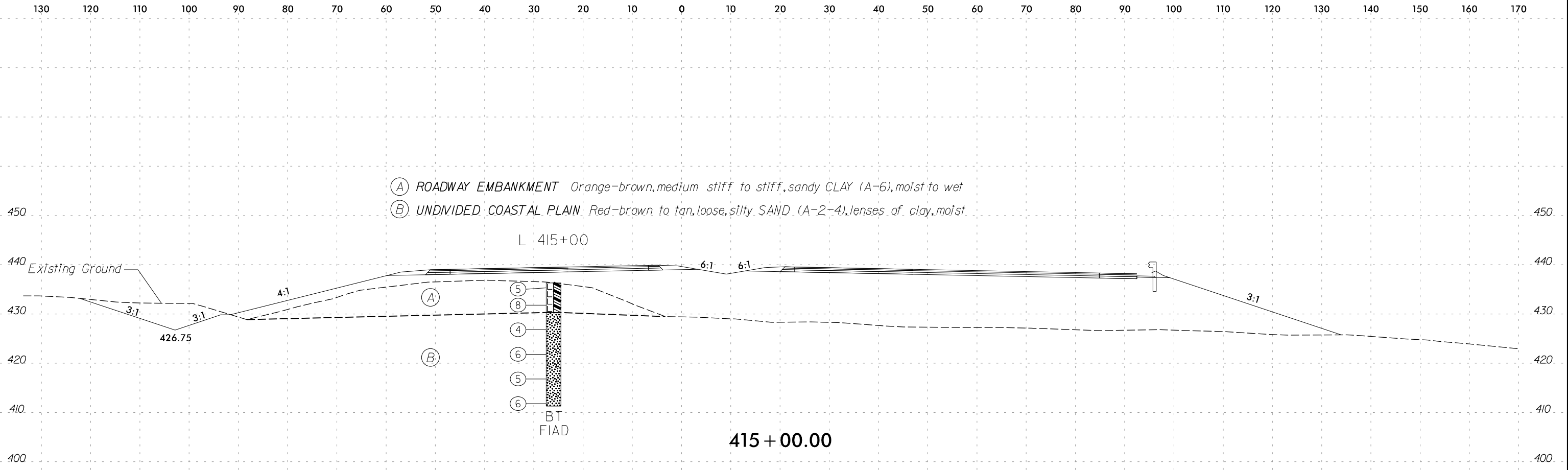
3
8
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FIAD

110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

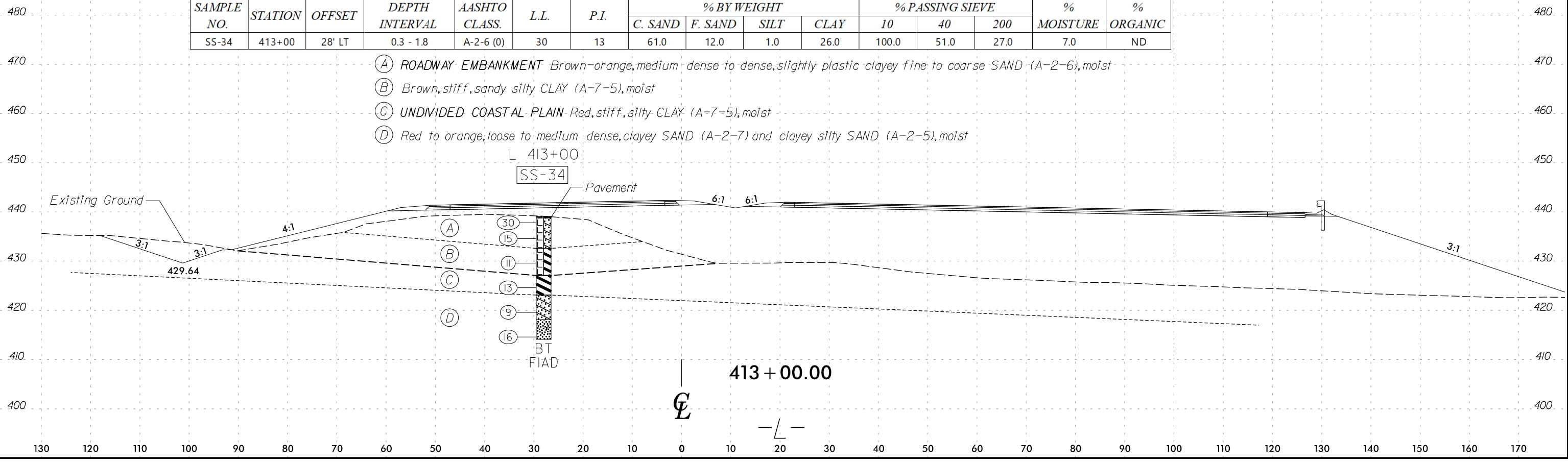
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1743	411+00	35' RT	0.0 -1.5	A-2-4	23	7	50.0	25.0	3.0	22.0	100.0	69.0	26.6	17.5	ND

- (A) ROADWAY EMBANKMENT Brown-orange, medium dense to dense, slightly plastic clayey fine to coarse SAND (A-2-6), moist
- (B) Brown, stiff, sandy silty CLAY (A-7-5), moist
- (C) UNDIVIDED COASTAL PLAIN Dark brown to brown-red to red, very loose to loose, slightly plastic clayey silty fine to coarse SAND (A-2-4) and clayey silty fine SAND (A-2-5), trace gravel, moist to wet
- (D) COASTAL PLAIN Tan-orange, loose to medium dense, clayey silty fine to coarse SAND (A-2-4, A-2-5) and silty clayey coarse SAND (A-2-7), clay balls, trace to little gravel, wet to saturated





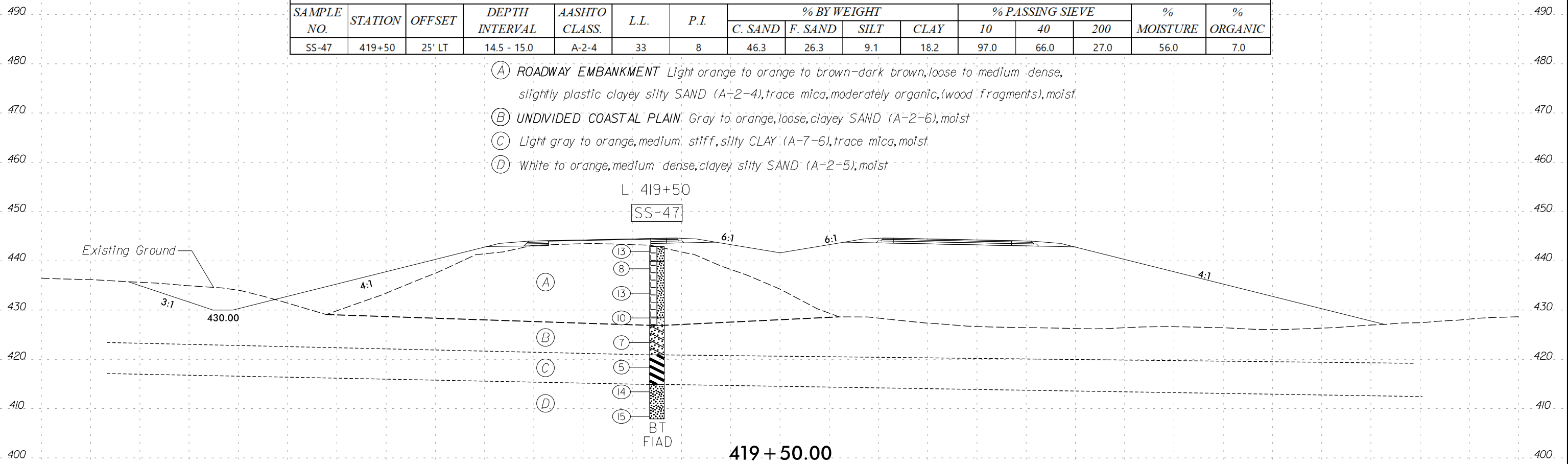
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-34	413+00	28' LT	0.3 - 1.8	A-2-6 (0)	30	13	61.0	12.0	1.0	26.0	100.0	51.0	27.0	7.0	ND



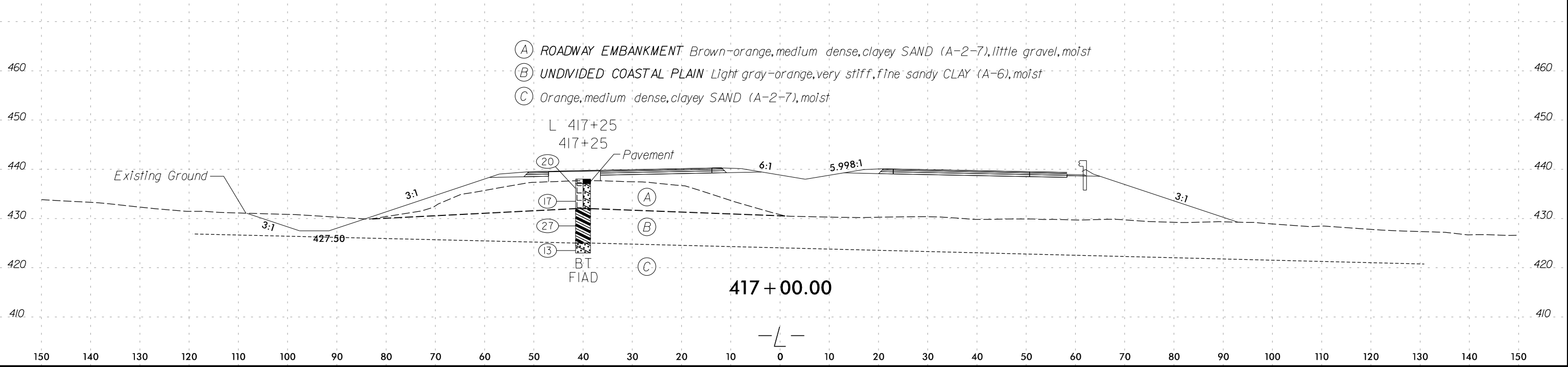
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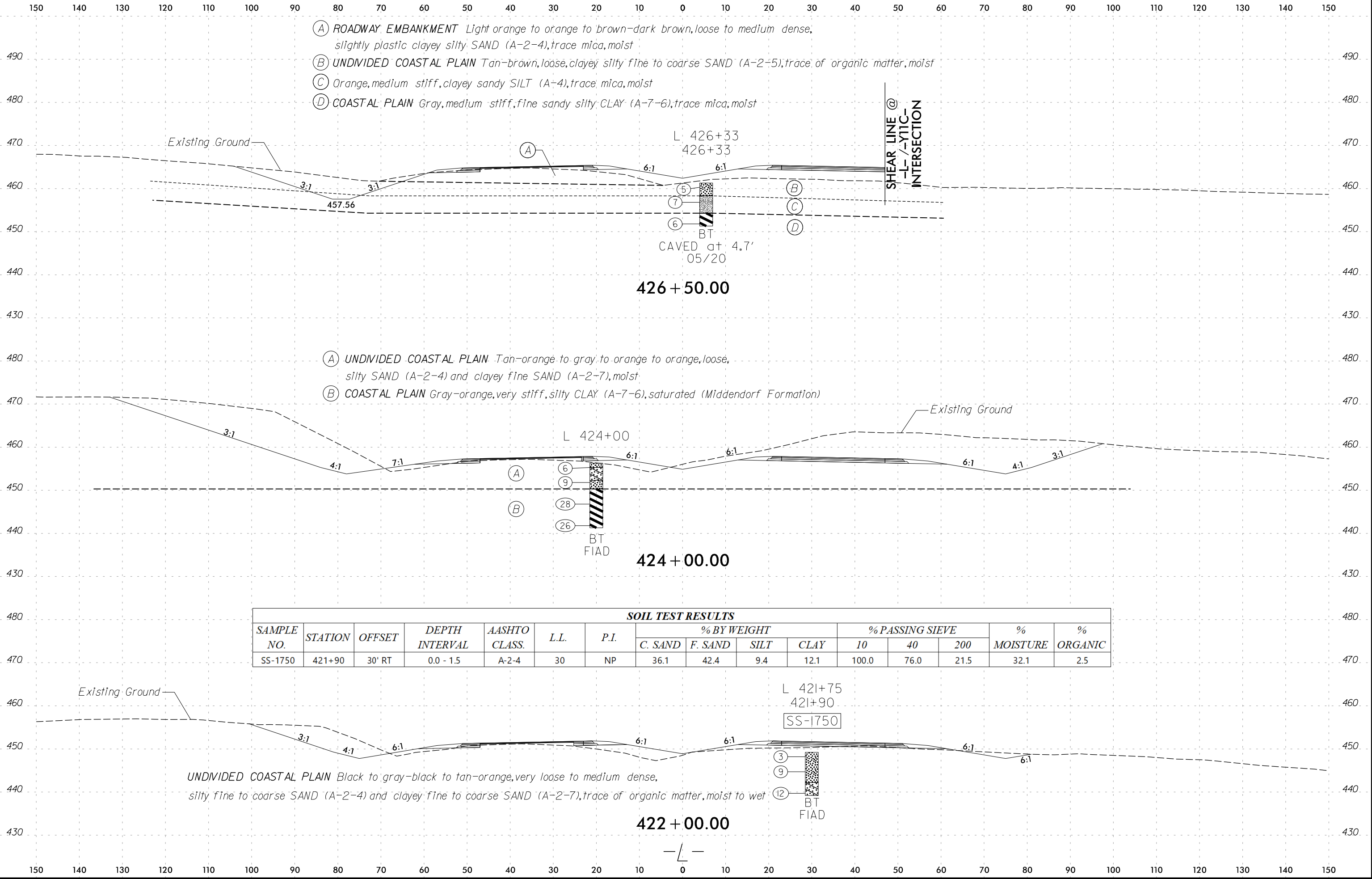
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-47	419+50	25' LT	14.5 - 15.0	A-2-4	33	8	46.3	26.3	9.1	18.2	97.0	66.0	27.0	56.0	7.0

- (A) ROADWAY EMBANKMENT Light orange to orange to brown-dark brown, loose to medium dense, slightly plastic clayey silty SAND (A-2-4), trace mica, moderately organic, (wood fragments), moist
- (B) UNDIVIDED COASTAL PLAIN Gray to orange, loose, clayey SAND (A-2-6), moist
- (C) Light gray to orange, medium stiff, silty CLAY (A-7-6), trace mica, moist
- (D) White to orange, medium dense, clayey silty SAND (A-2-5), moist

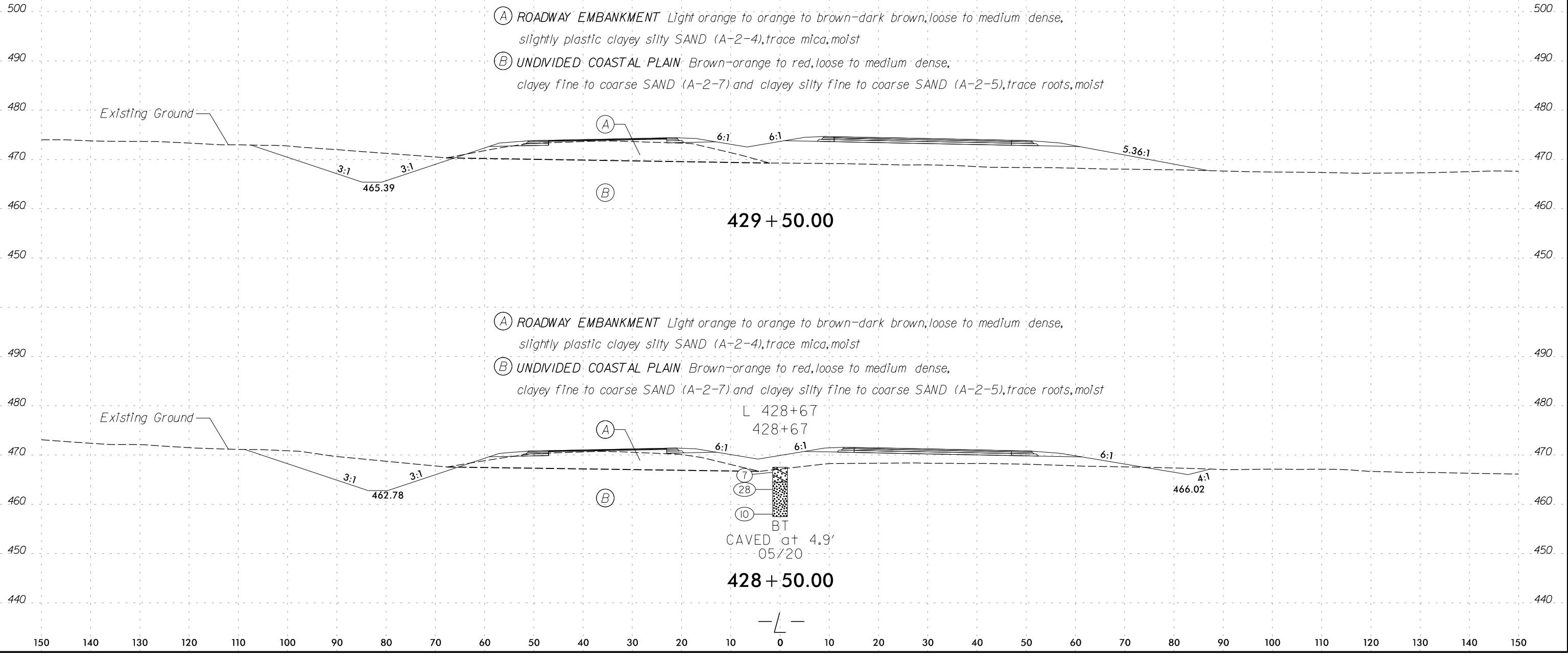


- (A) ROADWAY EMBANKMENT Brown-orange, medium dense, clayey SAND (A-2-7), little gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Light gray-orange, very stiff, fine sandy CLAY (A-6), moist
- (C) Orange, medium dense, clayey SAND (A-2-7), moist

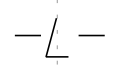
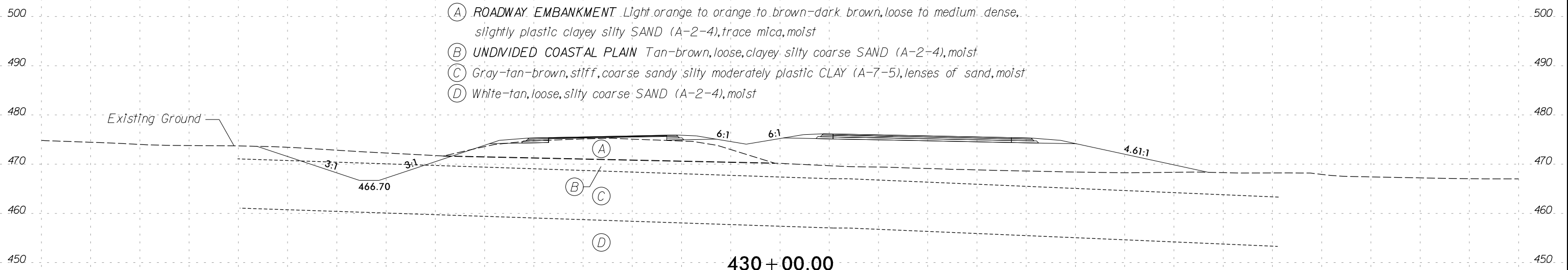
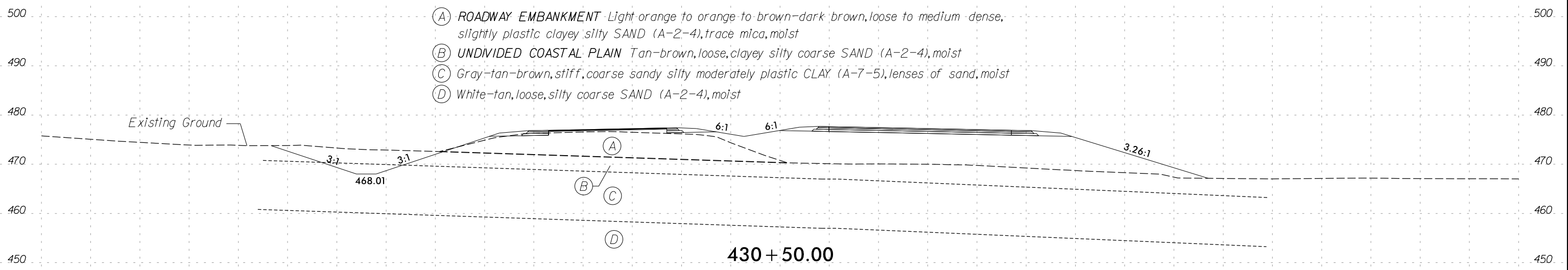


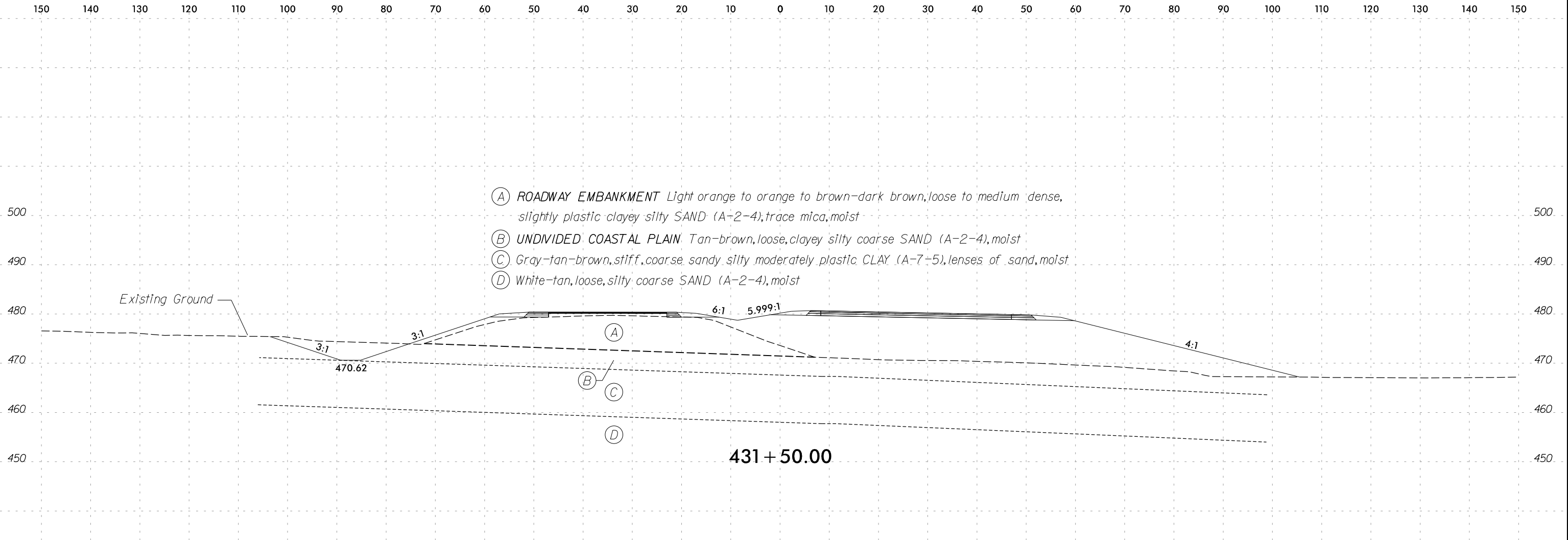


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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

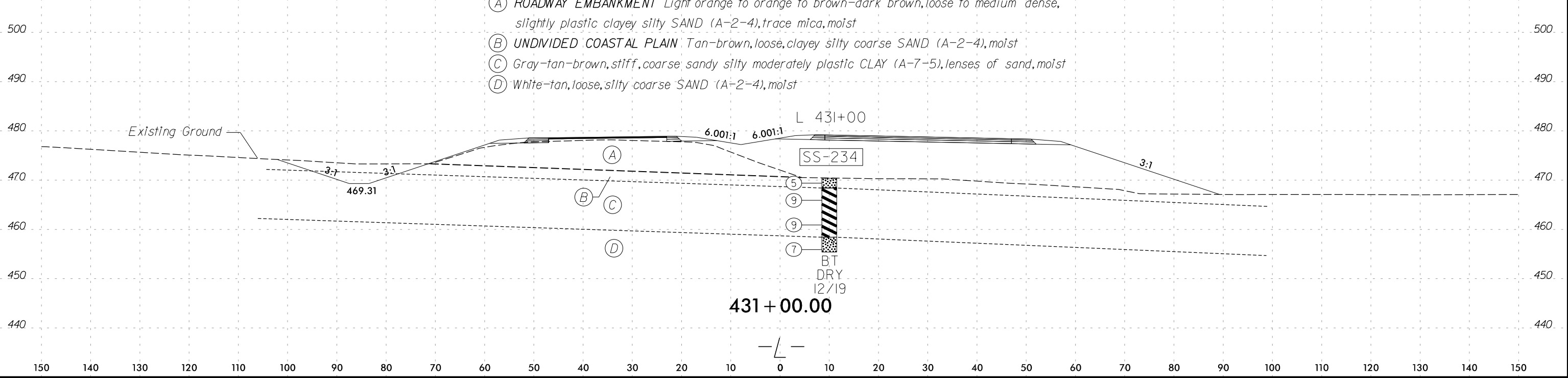




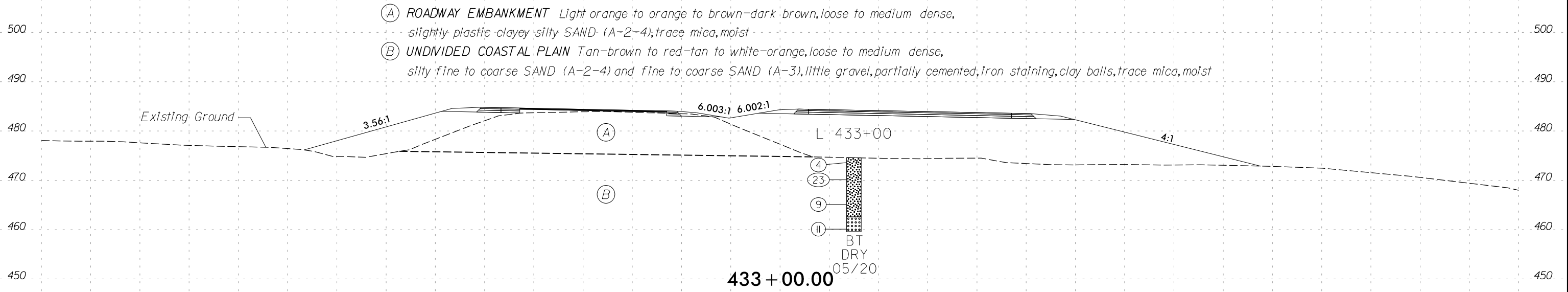
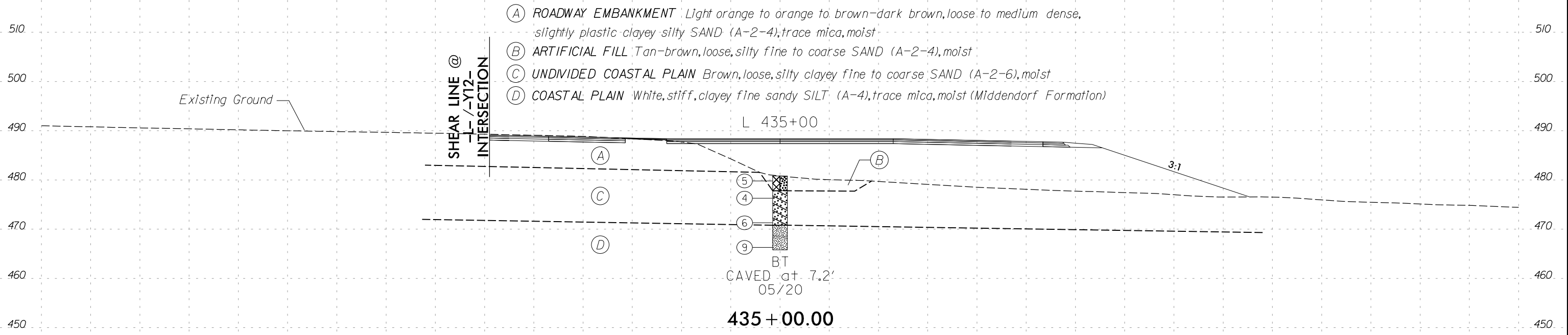
- (A) ROADWAY EMBANKMENT Light orange to orange to brown-dark brown, loose to medium dense, slightly plastic clayey silty SAND (A-2-4), trace mica, moist
- (B) UNDIVIDED COASTAL PLAIN Tan-brown, loose, clayey silty coarse SAND (A-2-4), moist
- (C) Gray-tan-brown, stiff, coarse sandy silty moderately plastic CLAY (A-7-5), lenses of sand, moist
- (D) White-tan, loose, silty coarse SAND (A-2-4), moist

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-234	431+00	10' RT	3.5 - 5.0	A-7-5(20)	59	25	2.0	2.0	31.0	65.0	100.0	99.0	96.6	27.5	ND

- (A) ROADWAY EMBANKMENT Light orange to orange to brown-dark brown, loose to medium dense, slightly plastic clayey silty SAND (A-2-4), trace mica, moist
- (B) UNDIVIDED COASTAL PLAIN Tan-brown, loose, clayey silty coarse SAND (A-2-4), moist
- (C) Gray-tan-brown, stiff, coarse sandy silty moderately plastic CLAY (A-7-5), lenses of sand, moist
- (D) White-tan, loose, silty coarse SAND (A-2-4), moist

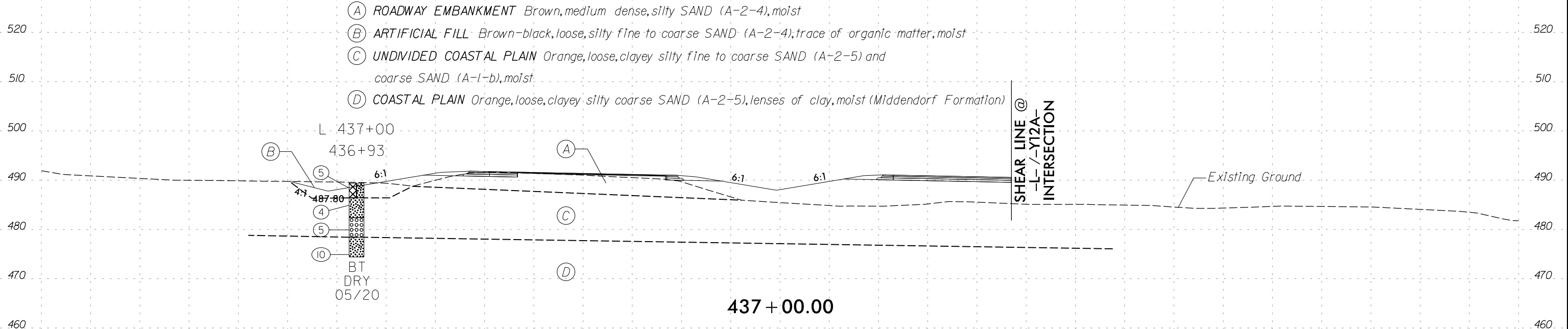
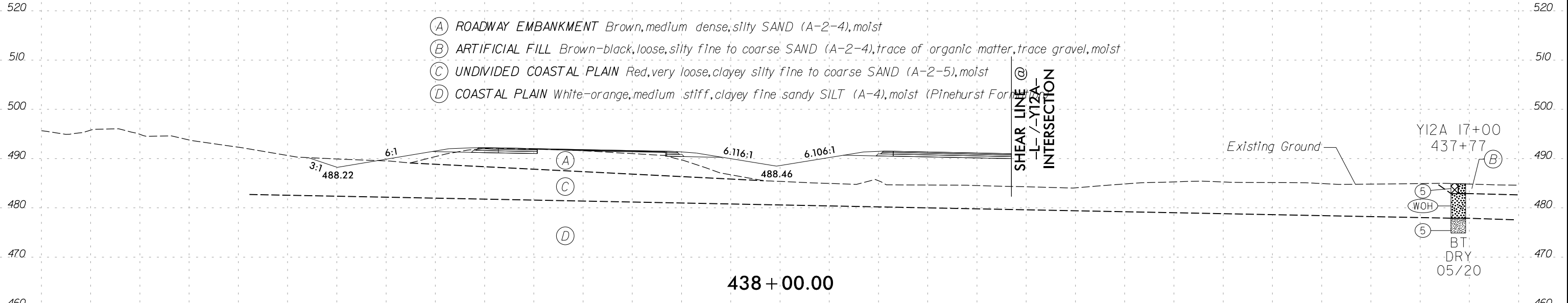


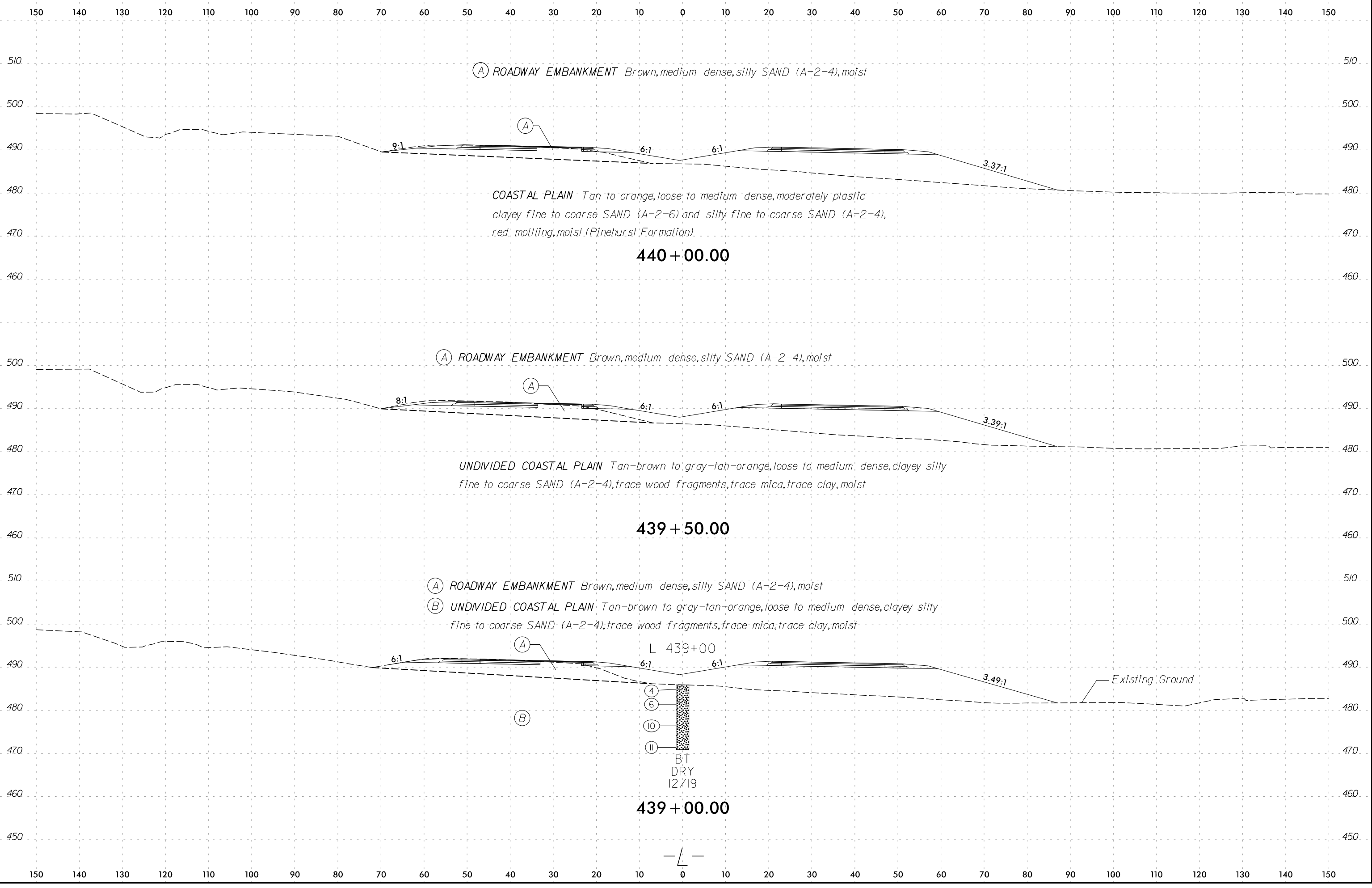
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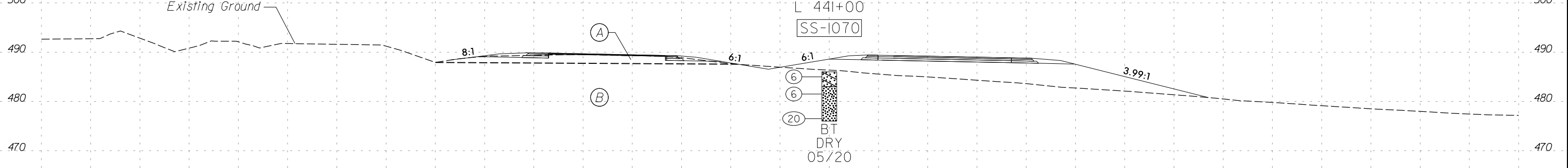




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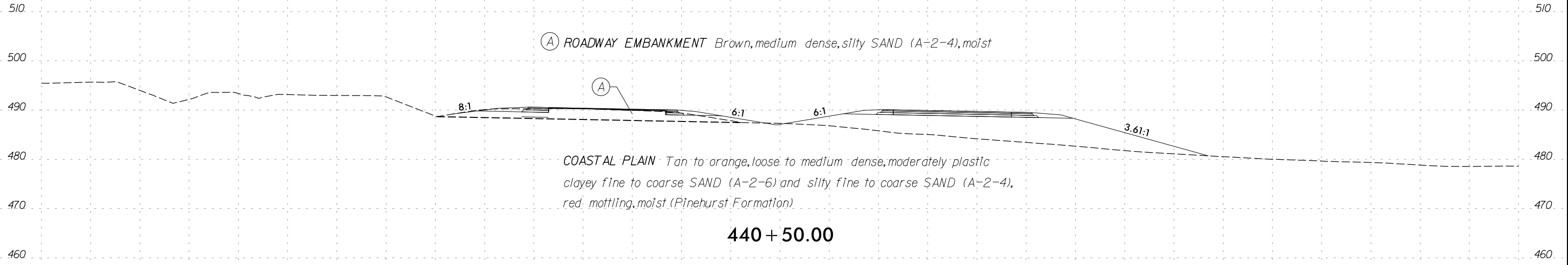
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1070	441+00	10' RT	0.0 - 1.5	A-2-6 (1)	36	16	44.4	29.1	0.3	26.1	100.0	62.0	26.4	16.0	ND

- (A) ROADWAY EMBANKMENT Brown, medium dense, silty SAND (A-2-4), moist
- (B) COASTAL PLAIN Tan to orange, loose to medium dense, moderately plastic clayey fine to coarse SAND (A-2-6) and silty fine to coarse SAND (A-2-4), red mottling, moist (Pinehurst Formation)

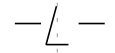


441 + 00.00

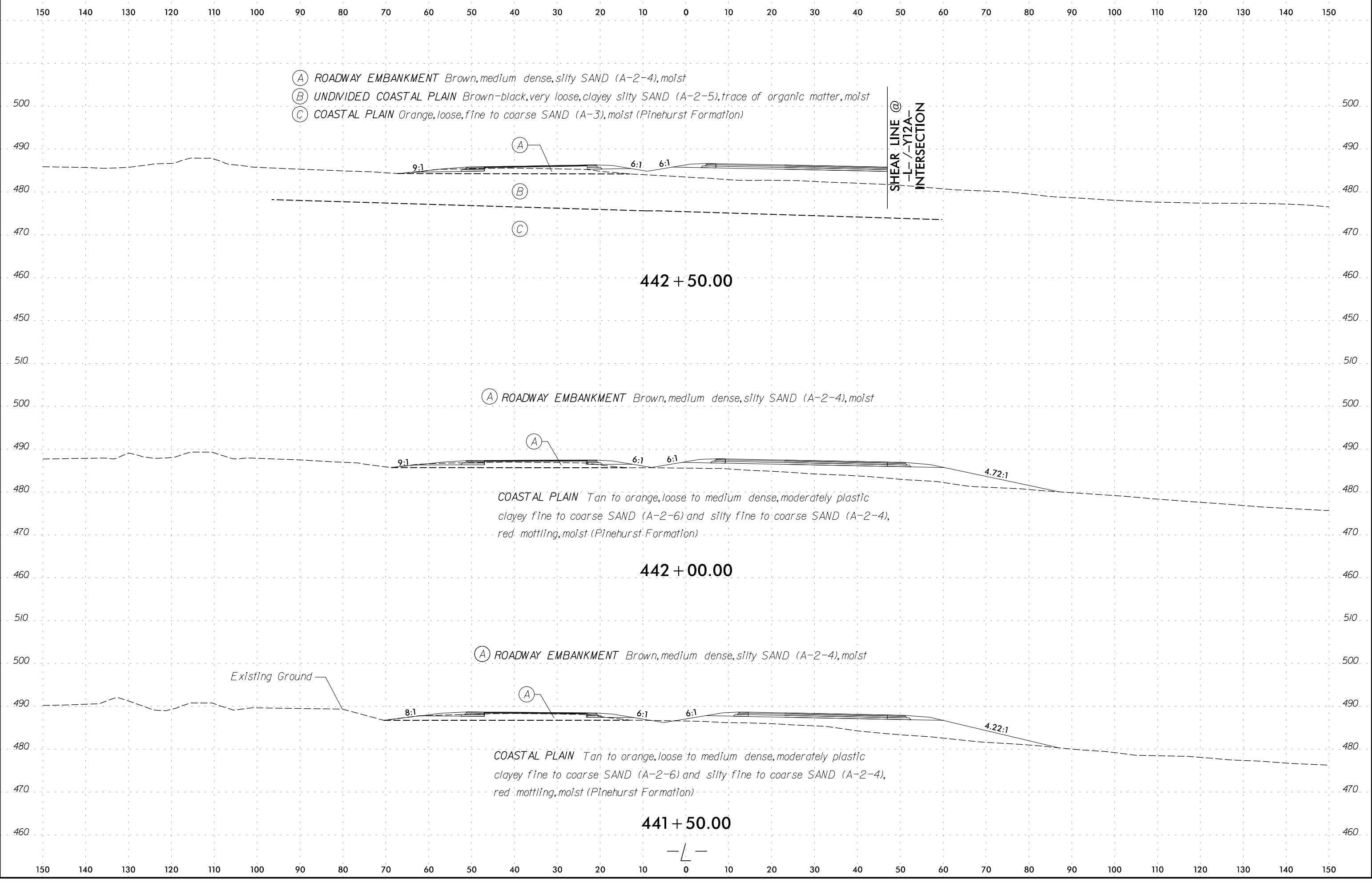
- (A) ROADWAY EMBANKMENT Brown, medium dense, silty SAND (A-2-4), moist
- (A) COASTAL PLAIN Tan to orange, loose to medium dense, moderately plastic clayey fine to coarse SAND (A-2-6) and silty fine to coarse SAND (A-2-4), red mottling, moist (Pinehurst Formation)



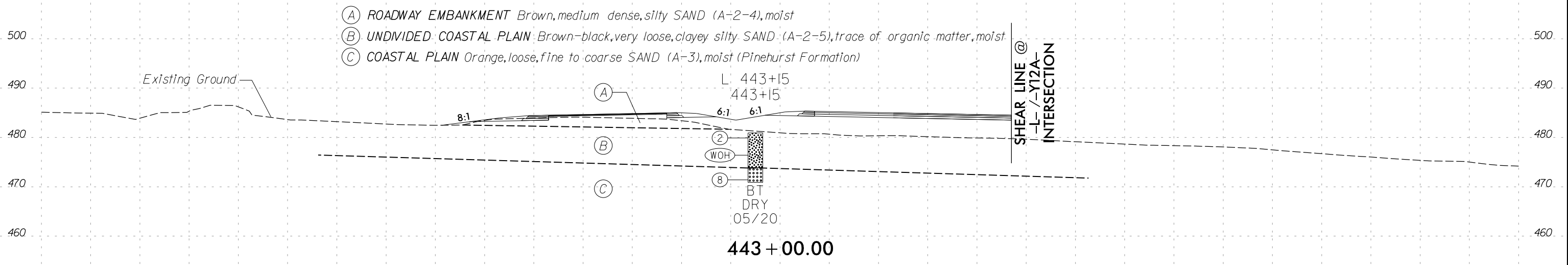
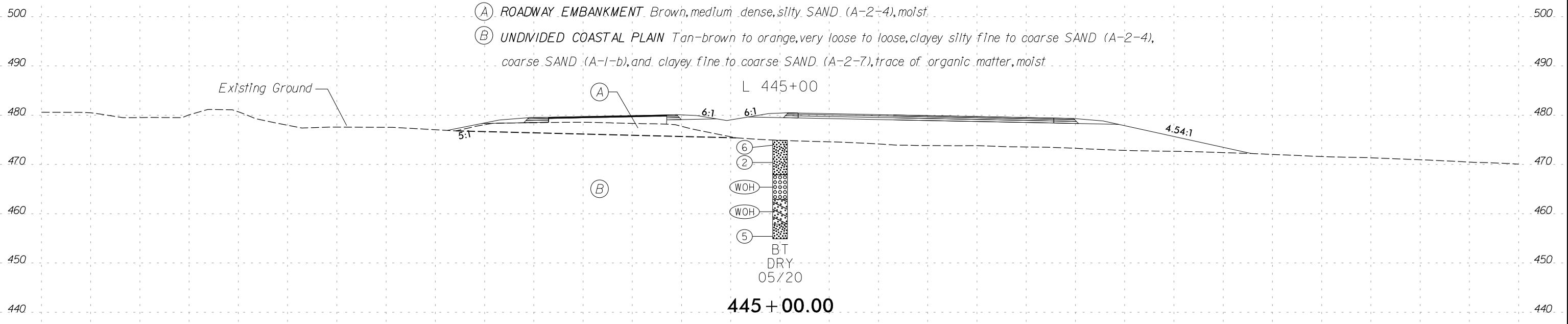
440 + 50.00



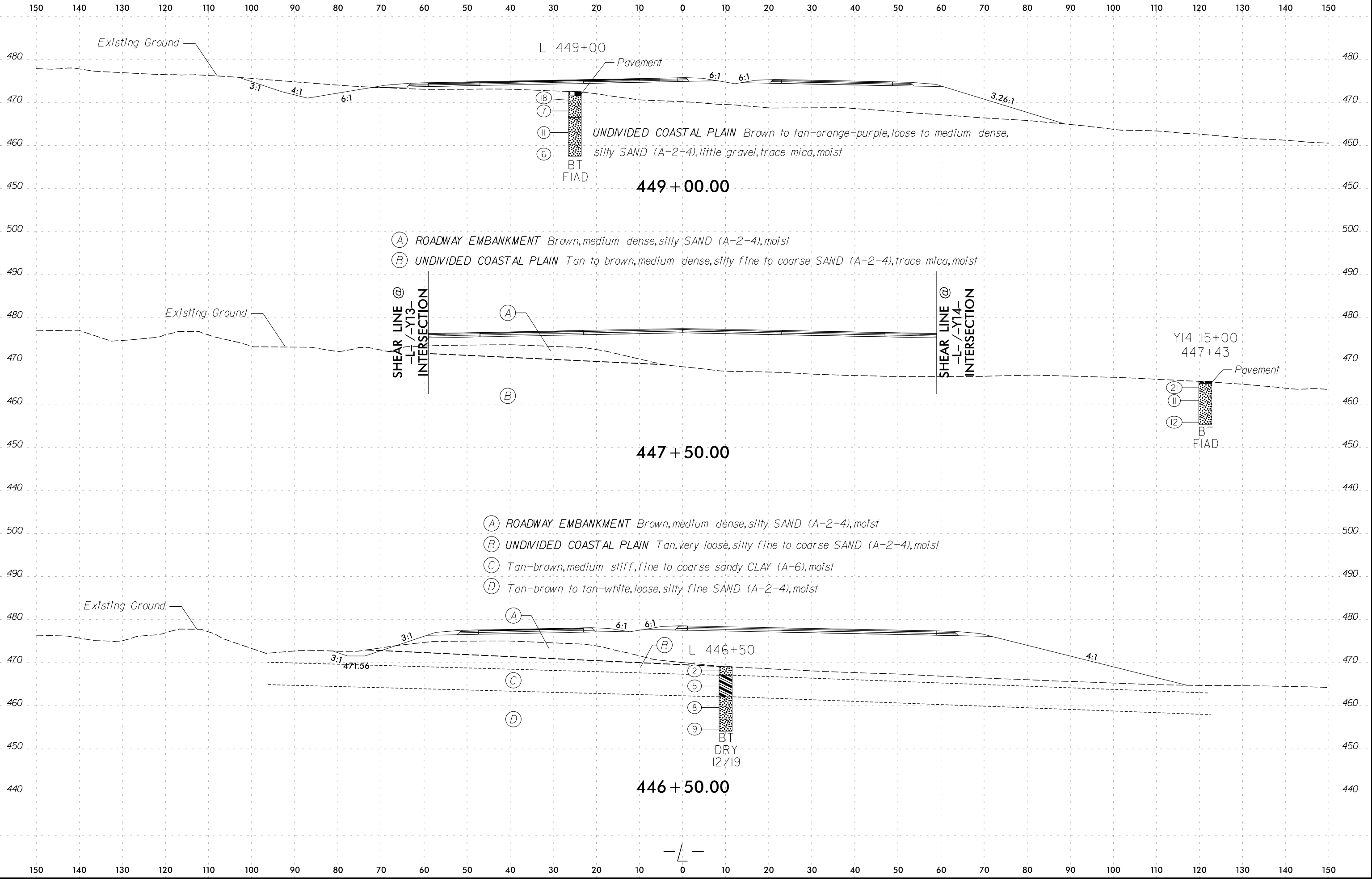
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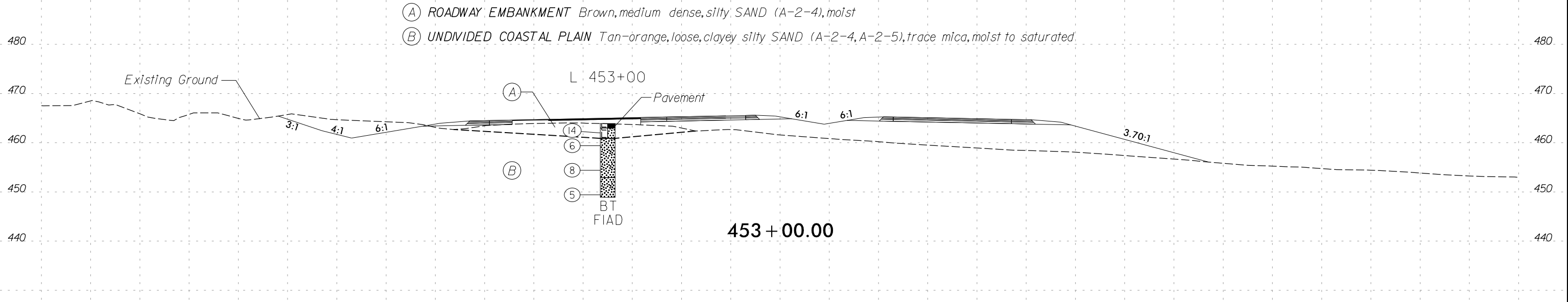
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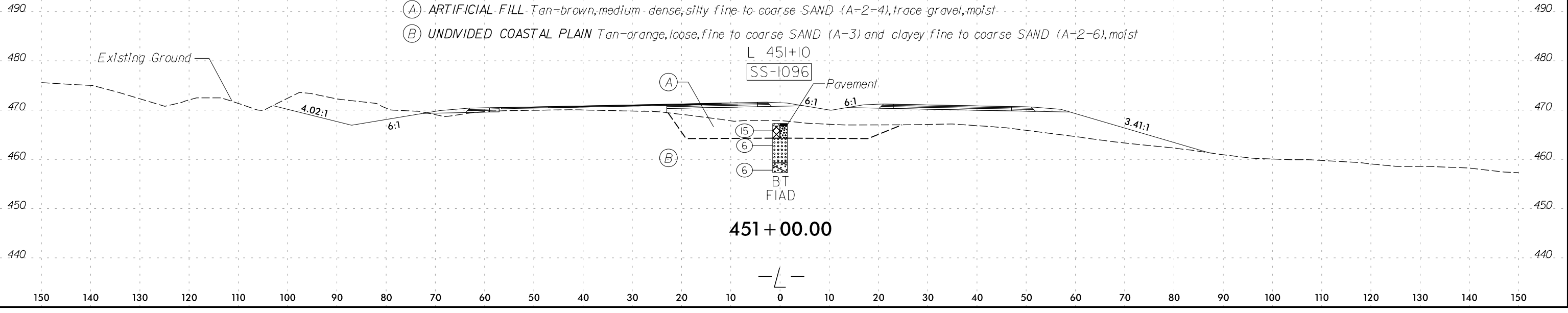
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

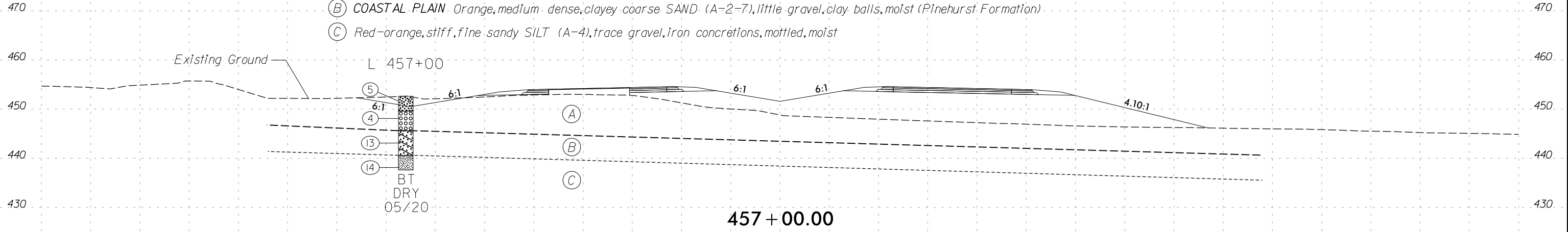


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS - 1096	451+10	0' CL	0.0 - 2.0	A-2-4	19	NP	66.0	24.0	2.0	8.0	99.0	52.0	10.9	5.8	ND



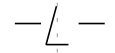
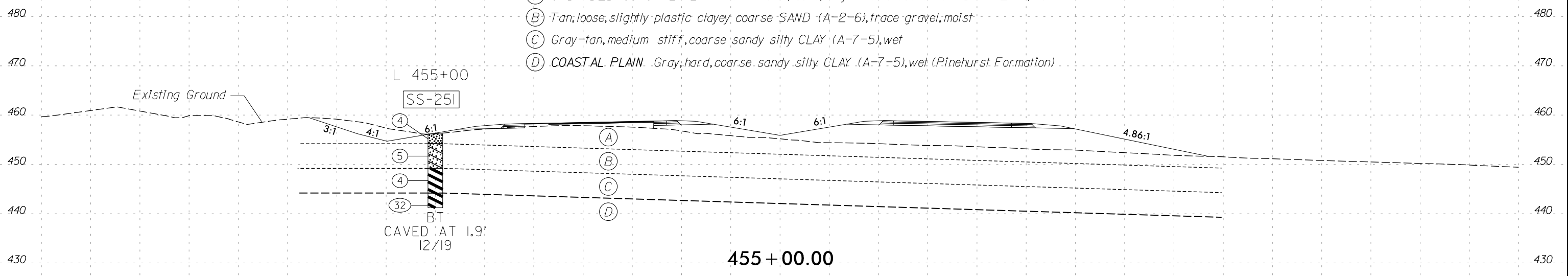
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

- (A) UNDIVIDED COASTAL PLAIN Tan-brown, loose, clayey silty fine to coarse SAND (A-2-5) and coarse SAND (A-1-b), trace organic matter, trace gravel, moist
- (B) COASTAL PLAIN Orange, medium dense, clayey coarse SAND (A-2-7), little gravel, clay balls, moist (Pinehurst Formation)
- (C) Red-orange, stiff, fine sandy SILT (A-4), trace gravel, iron concretions, mottled, moist

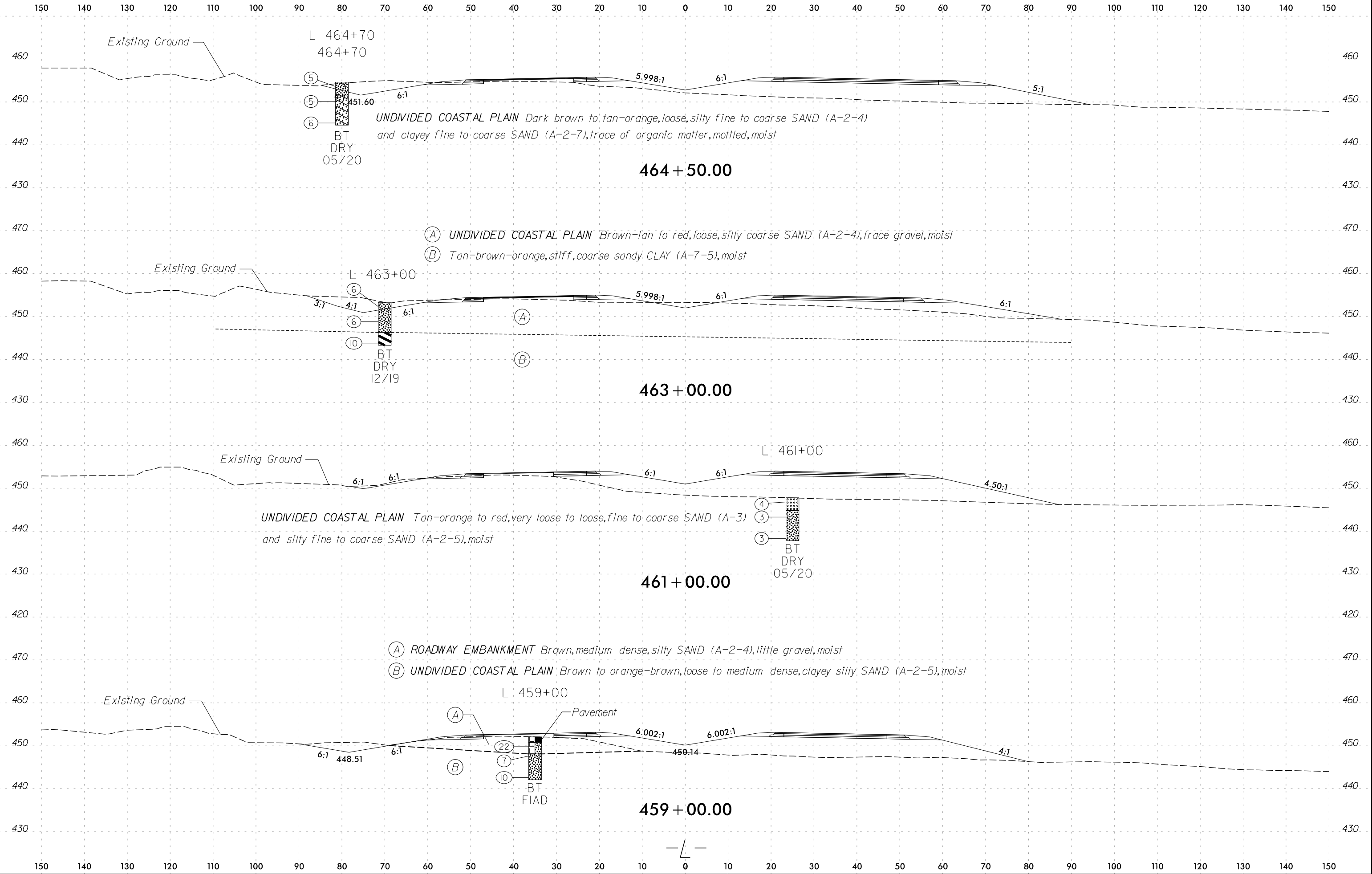


SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-251	455+00	70' LT	3.5 - 5.0	A-2-6(0)	32	12		

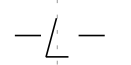
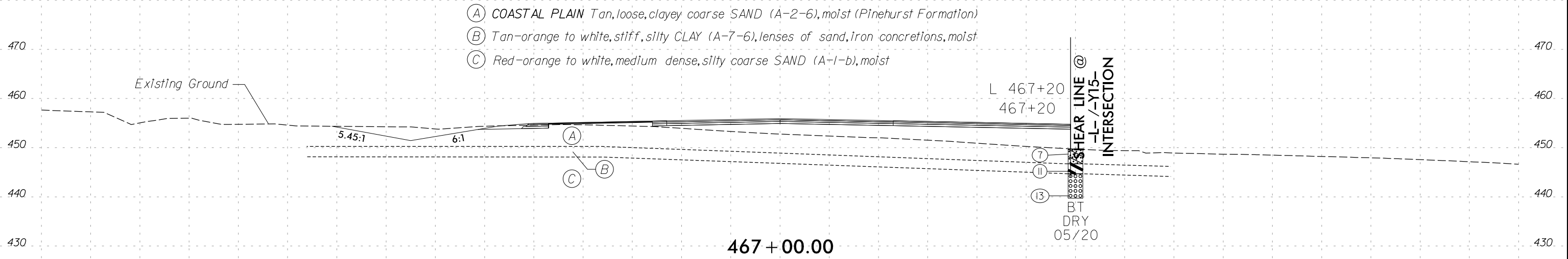
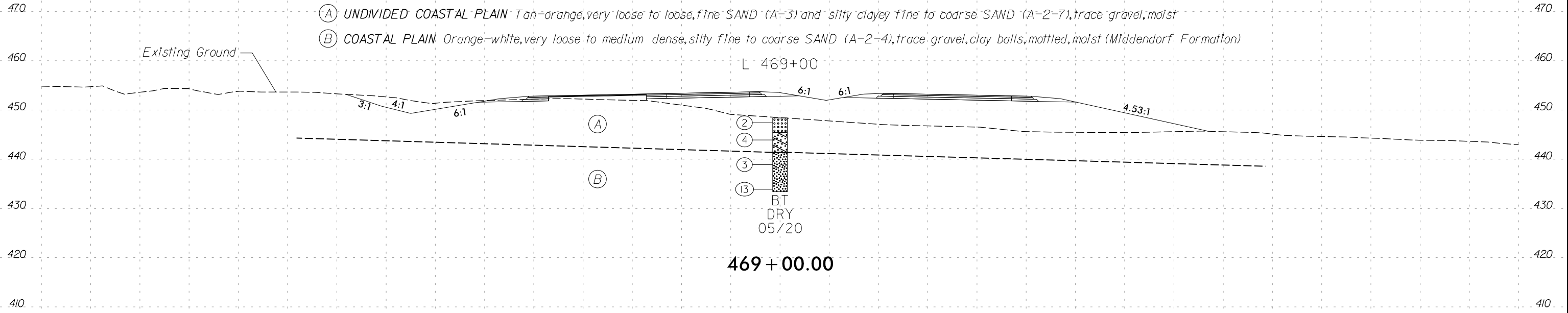
- (A) UNDIVIDED COASTAL PLAIN Tan-brown, loose, silty fine to coarse SAND (A-2-4), moist
- (B) Tan, loose, slightly plastic clayey coarse SAND (A-2-6), trace gravel, moist
- (C) Gray-tan, medium stiff, coarse sandy silty CLAY (A-7-5), wet
- (D) COASTAL PLAIN Gray, hard, coarse sandy silty CLAY (A-7-5), wet (Pinehurst Formation)

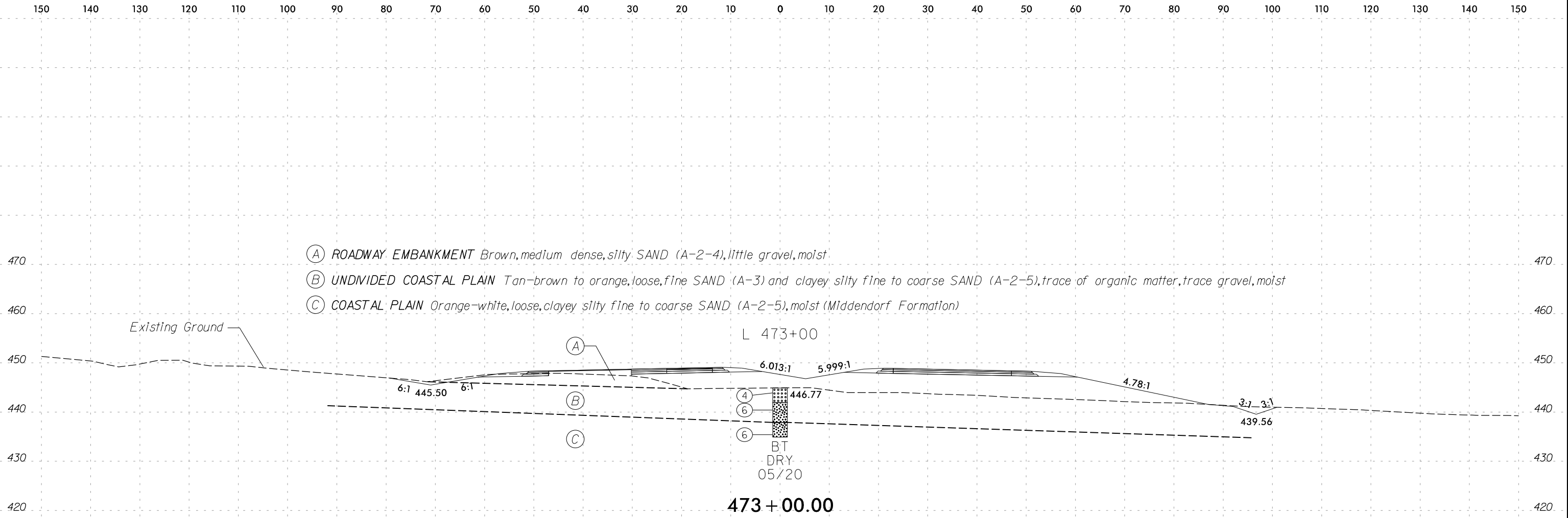


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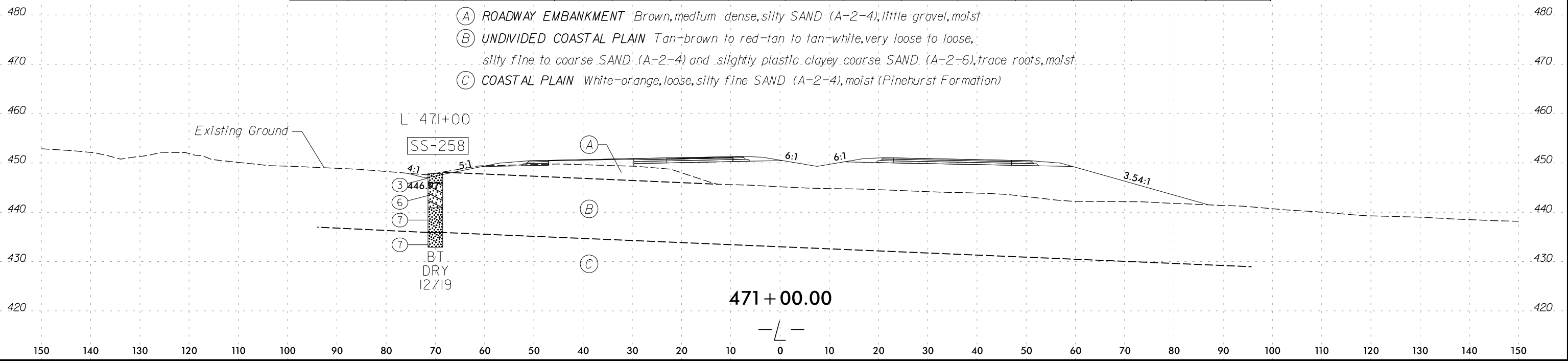


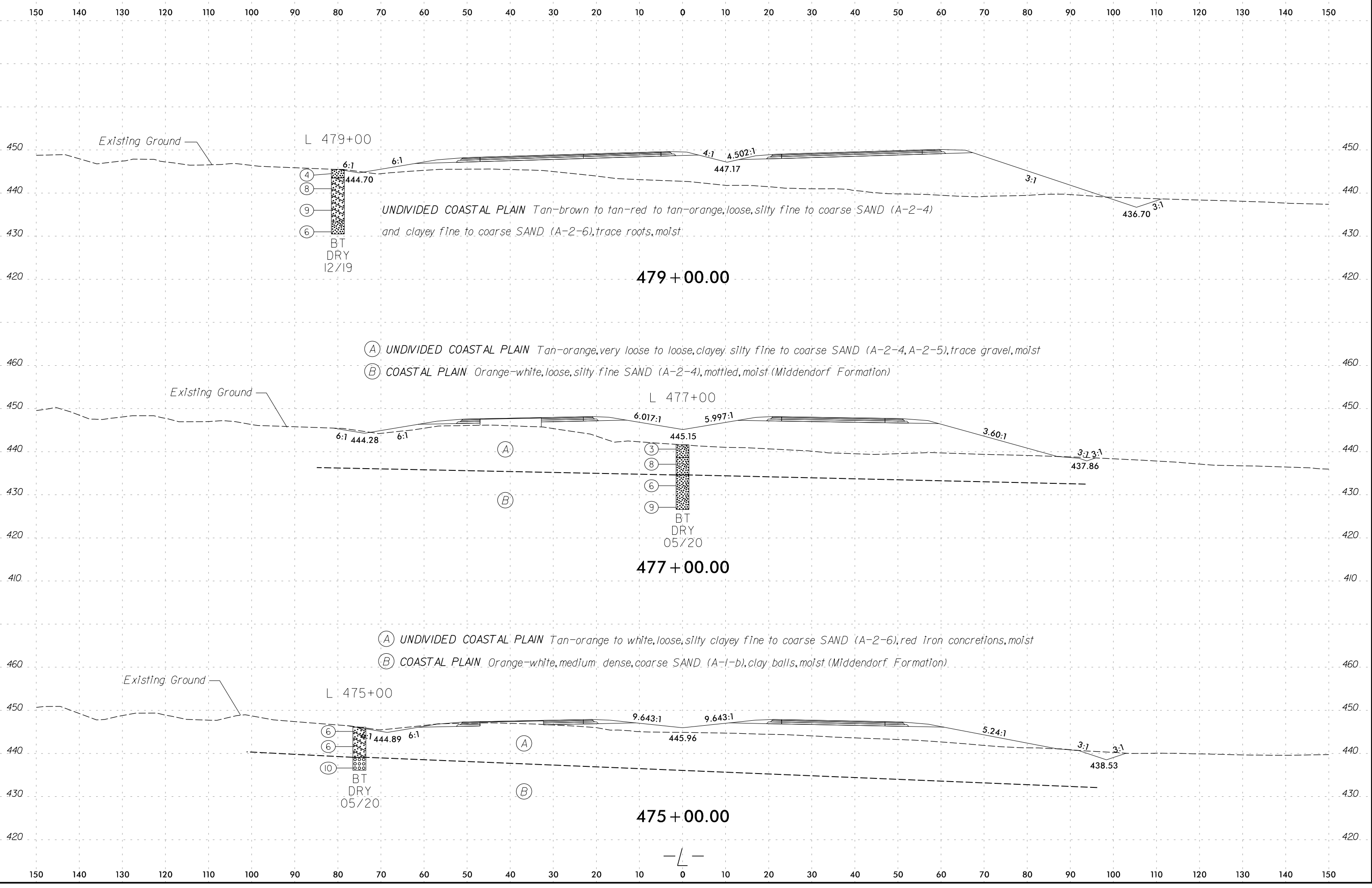
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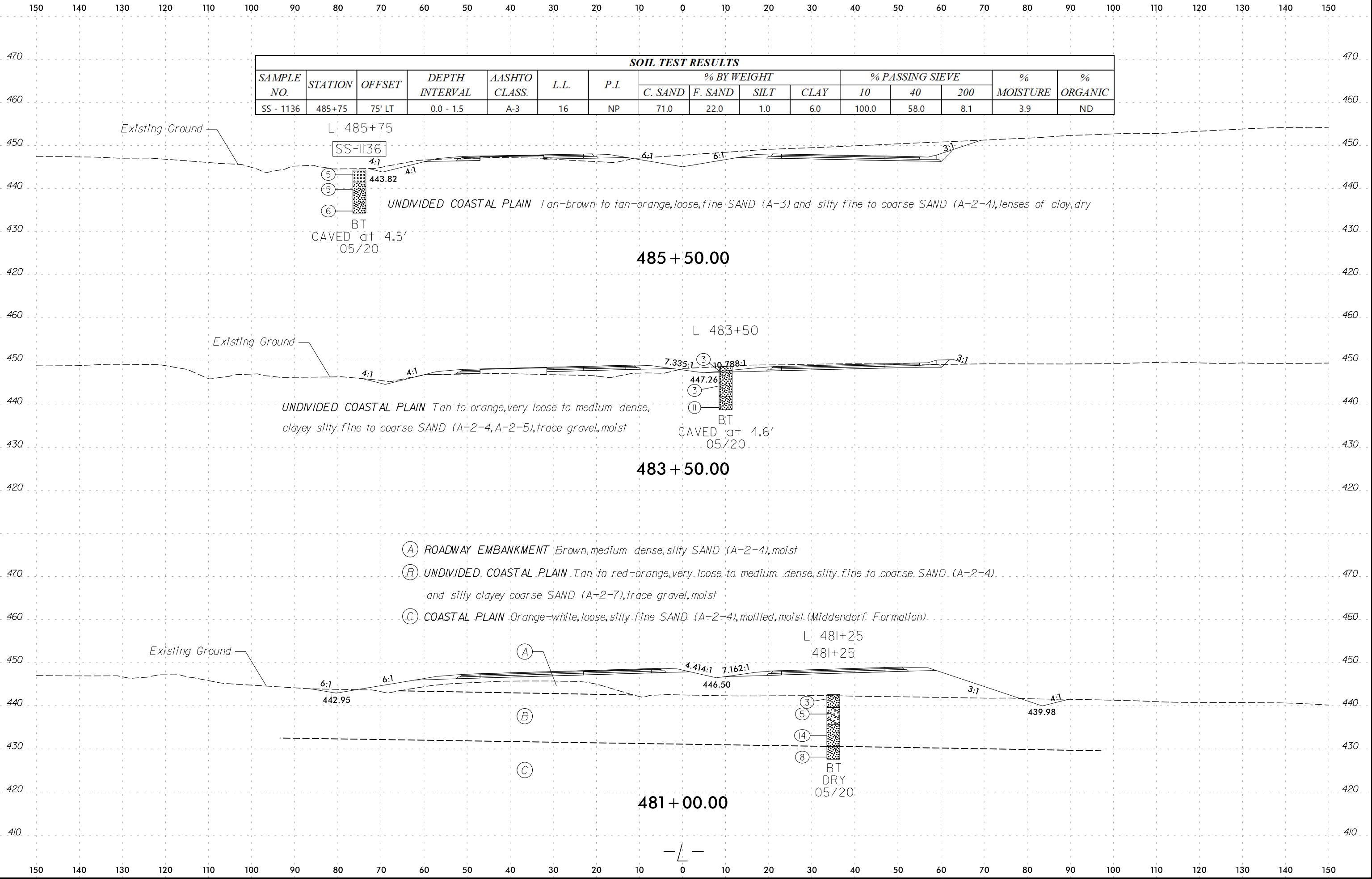


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-258	471+00	70' LT	3.5 - 5.0	A-2-6(0)	32	12	50.0	23.0	1.0	26.0	99.0	69.0	27.3	16.4	ND

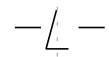
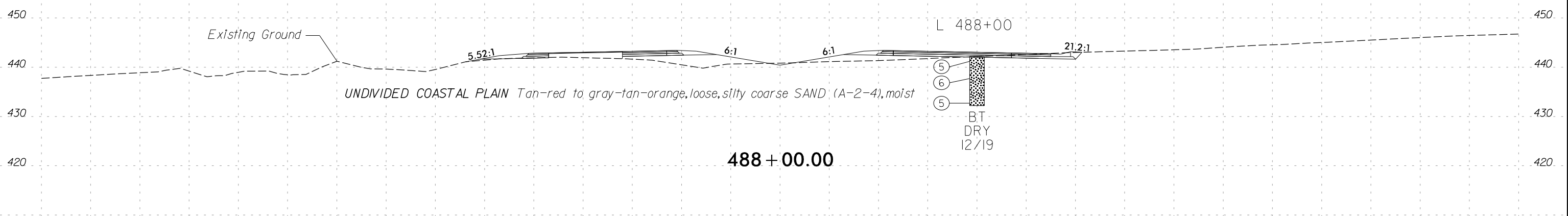
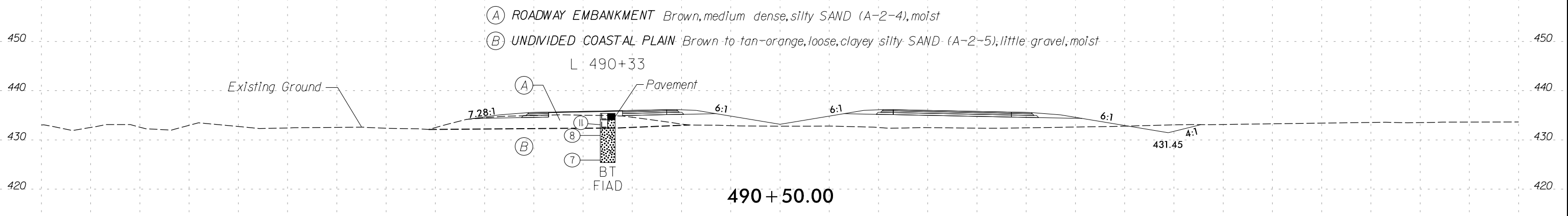
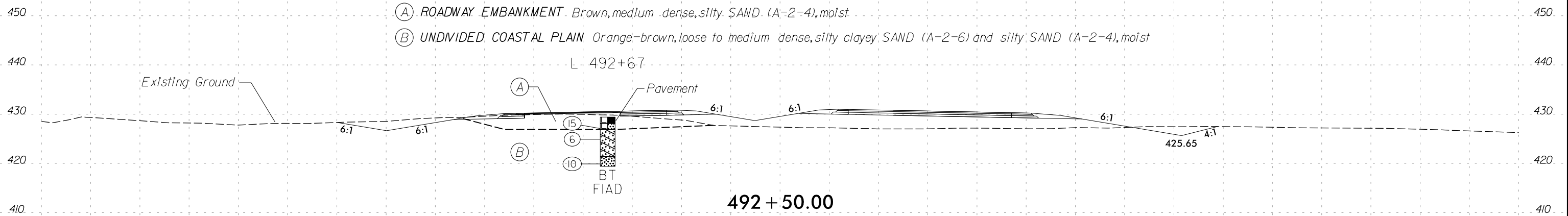


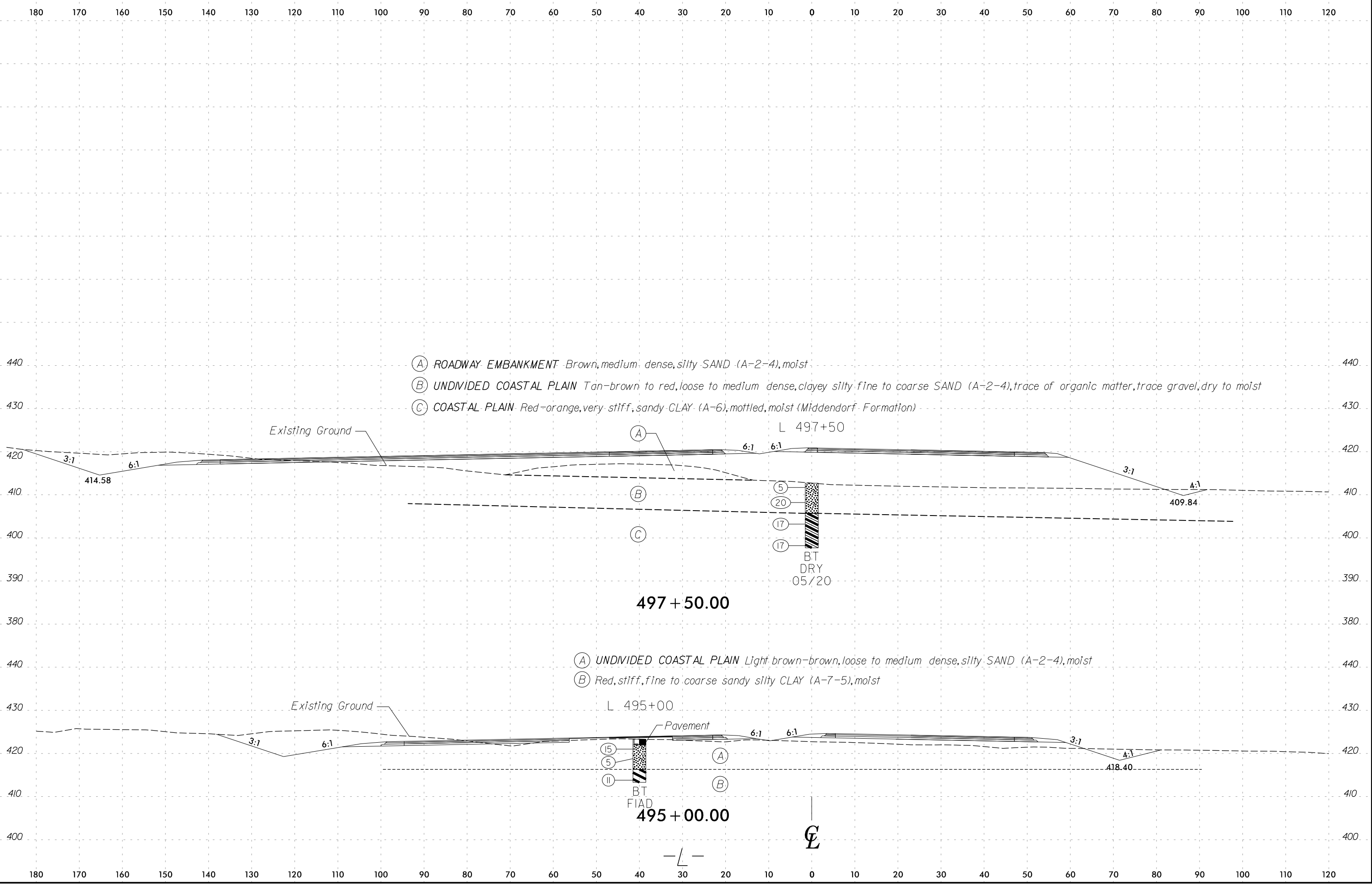


SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS - 1136	485+75	75' LT	0.0 - 1.5	A-3	16	NP		



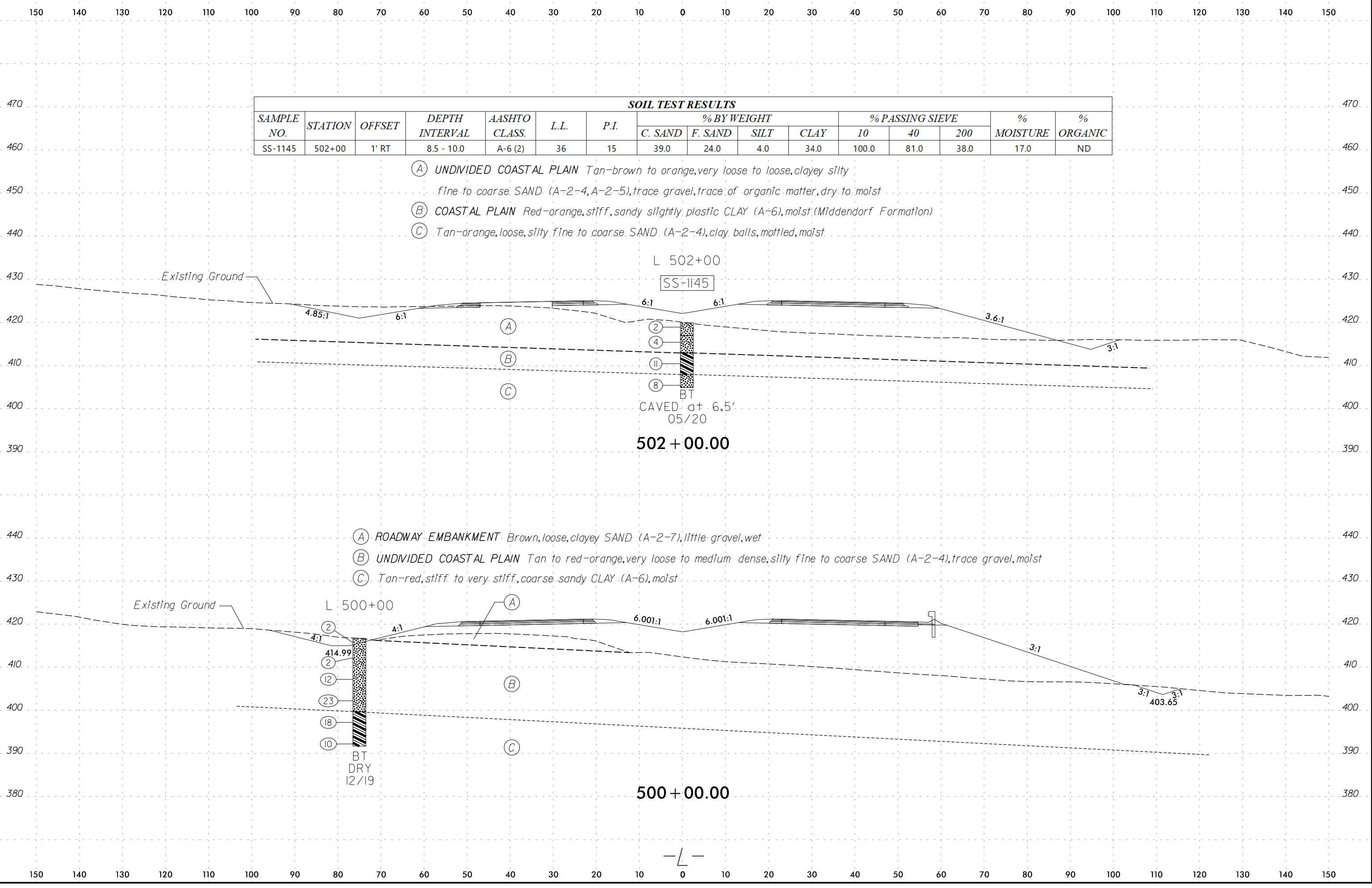
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





- (A) ROADWAY EMBANKMENT - Brown, medium dense, silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Tan-brown to red, loose to medium dense, clayey silty fine to coarse SAND (A-2-4), trace of organic matter, trace gravel, dry to moist
- (C) COASTAL PLAIN - Red-orange, very stiff, sandy CLAY (A-6), mottled, moist (Middendorf Formation)

- (A) UNDIVIDED COASTAL PLAIN Light brown-brown, loose to medium dense, silty SAND (A-2-4), moist
- (B) Red, stiff, fine to coarse sandy silty CLAY (A-7-5), moist



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1145	502+00	1' RT	8.5 - 10.0	A-6 (2)	36	15	39.0	24.0	4.0	34.0	100.0	81.0	38.0	17.0	ND

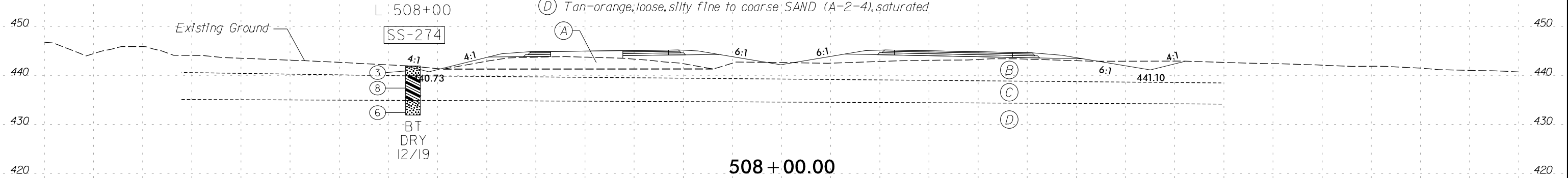
- (A) UNDIVIDED COASTAL PLAIN Tan-brown to orange, very loose to loose, clayey silty fine to coarse SAND (A-2-4, A-2-5), trace gravel, trace of organic matter, dry to moist
- (B) COASTAL PLAIN Red-orange, stiff, sandy slightly plastic CLAY (A-6), moist (Middendorf Formation)
- (C) Tan-orange, loose, silty fine to coarse SAND (A-2-4), clay balls, mottled, moist

- (A) ROADWAY EMBANKMENT Brown, loose, clayey SAND (A-2-7), little gravel, wet
- (B) UNDIVIDED COASTAL PLAIN Tan to red-orange, very loose to medium dense, silty fine to coarse SAND (A-2-4), trace gravel, moist
- (C) Tan-red, stiff to very stiff, coarse sandy CLAY (A-6), moist

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

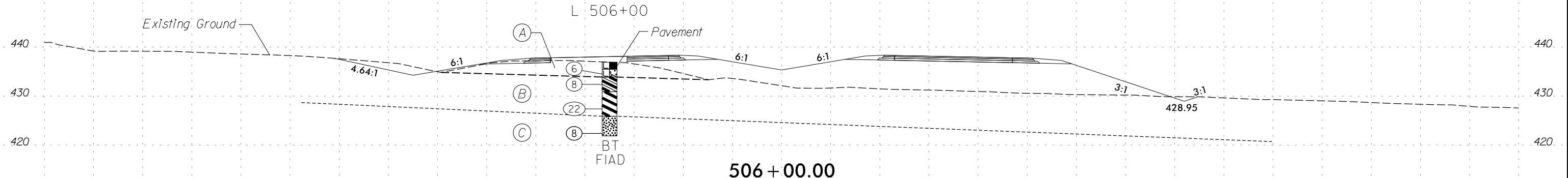
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-274	508+00	75' LT	0 - 1.5	A-2-4	16	NP		

- (A) ROADWAY EMBANKMENT Brown, loose, clayey SAND (A-2-7), little gravel, wet
- (B) UNDIVIDED COASTAL PLAIN Tan-black, very loose, silty coarse SAND (A-2-4), moist
- (C) Tan-orange, stiff, coarse sandy CLAY (A-6), wet
- (D) Tan-orange, loose, silty fine to coarse SAND (A-2-4), saturated



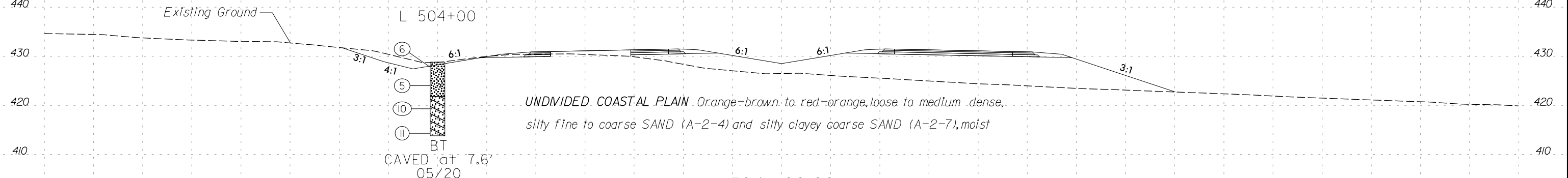
508 + 00.00

- (A) ROADWAY EMBANKMENT Brown, loose, clayey SAND (A-2-7), little gravel, wet
- (B) UNDIVIDED COASTAL PLAIN Tan to light gray-orange, stiff to very stiff, sandy CLAY (A-6) and silty CLAY (A-7-5), moist
- (C) Tan-orange, loose, silty SAND (A-2-4), moist



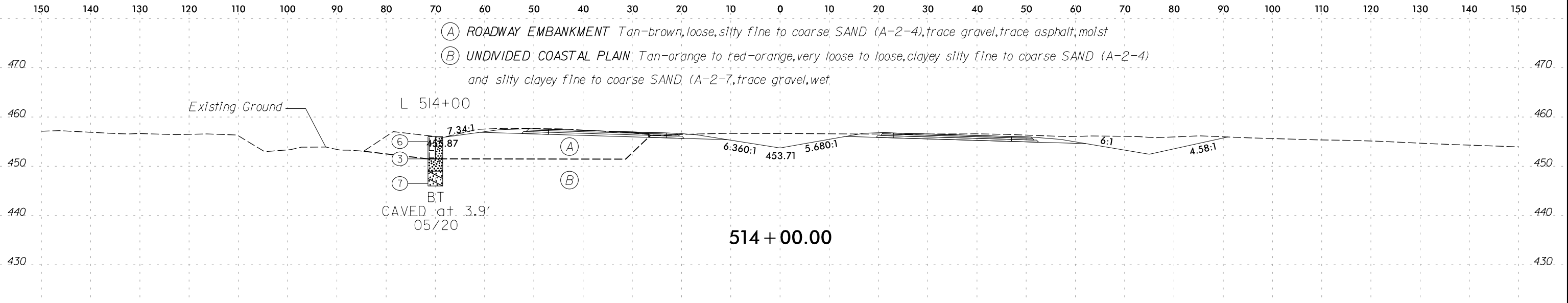
506 + 00.00

UNDIVIDED COASTAL PLAIN Orange-brown to red-orange, loose to medium dense, silty fine to coarse SAND (A-2-4) and silty clayey coarse SAND (A-2-7), moist



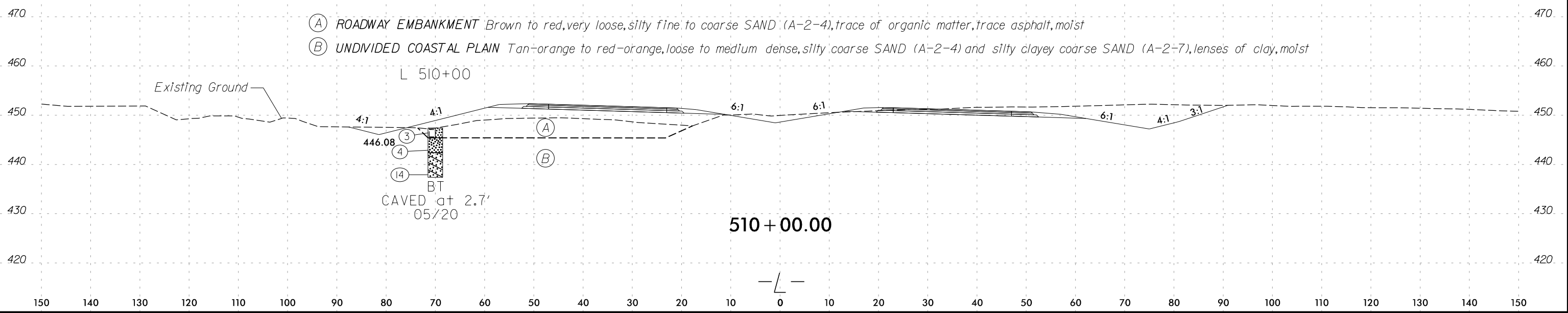
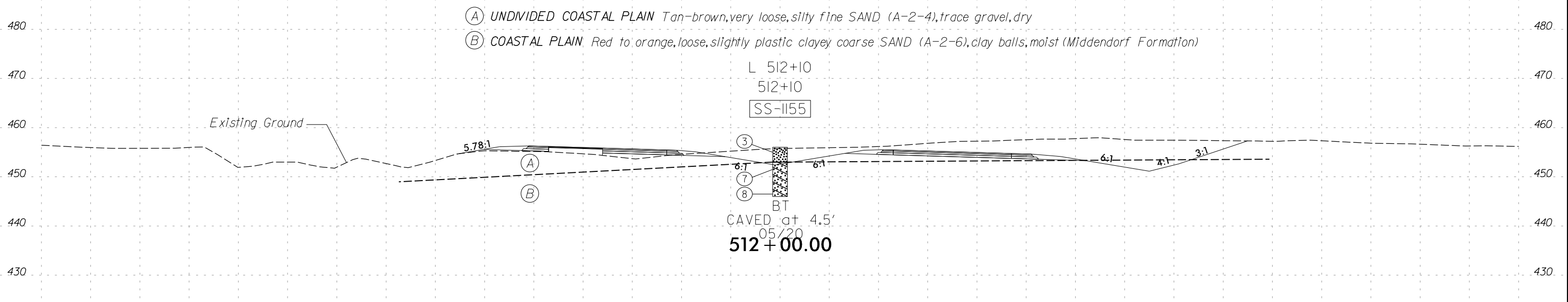
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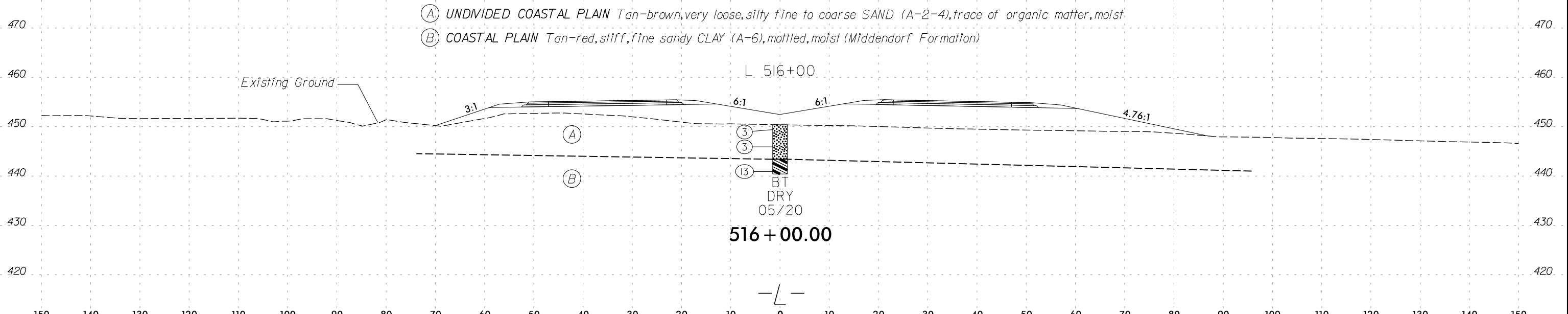
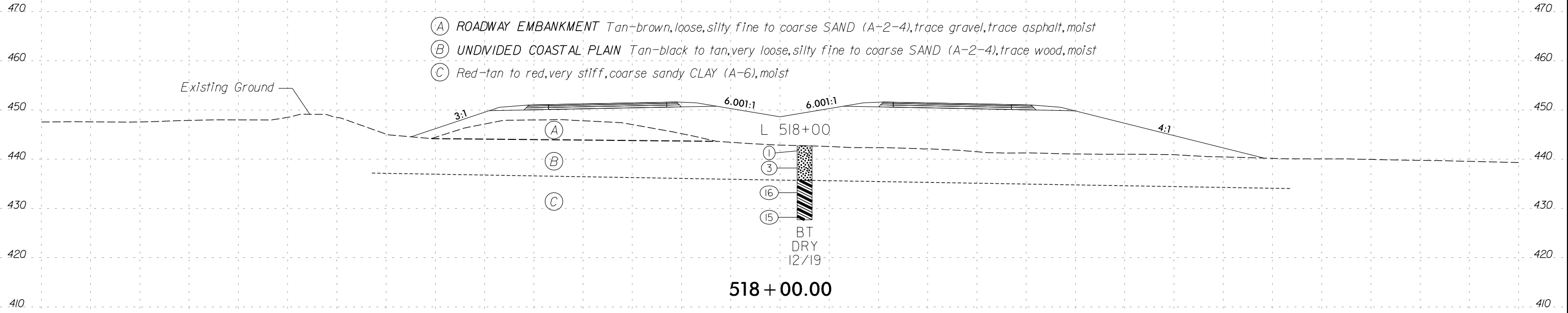


SOIL TEST RESULTS

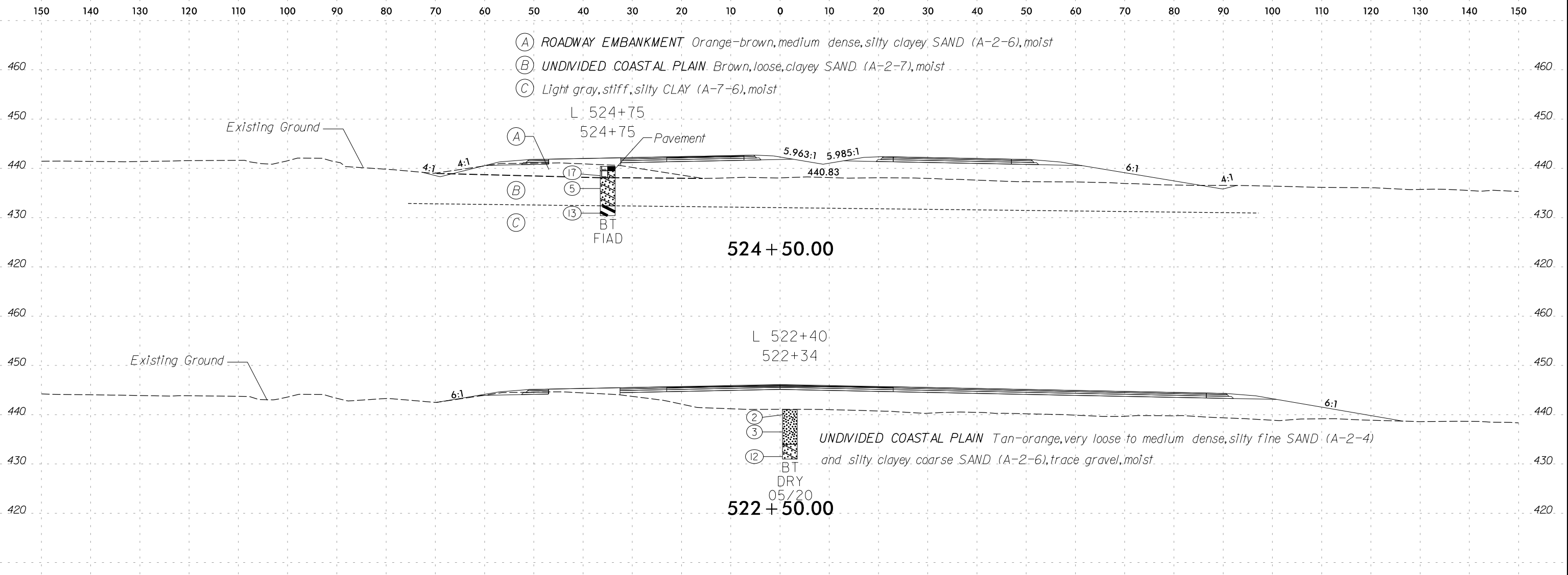
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1155	512+10	0' CL	3.5 - 5.0	A-2-6 (0)	33	11	45.0	22.0	1.0	32.0	100.0	82.0	33.0	15.0	ND



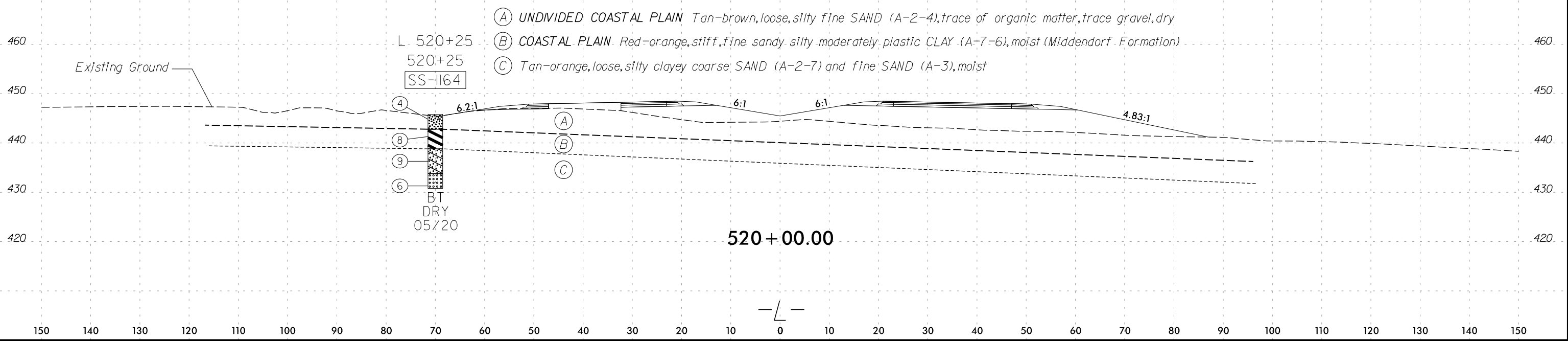
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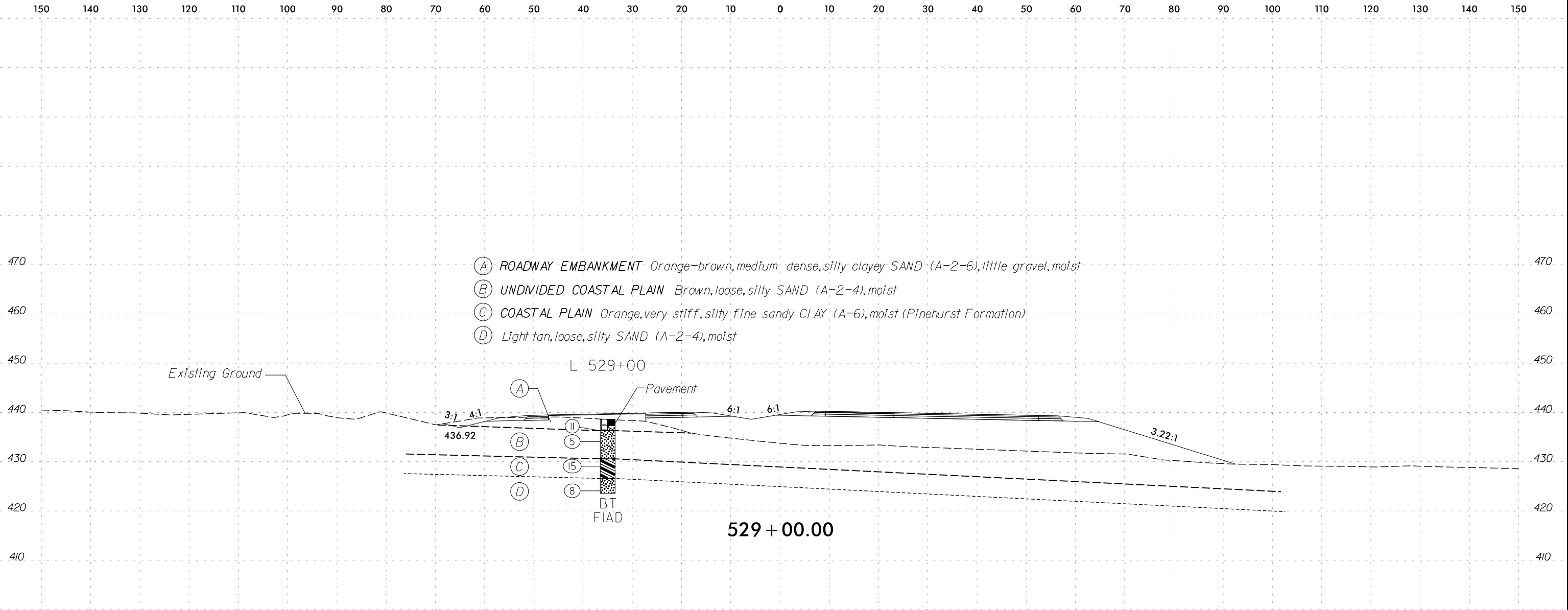


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

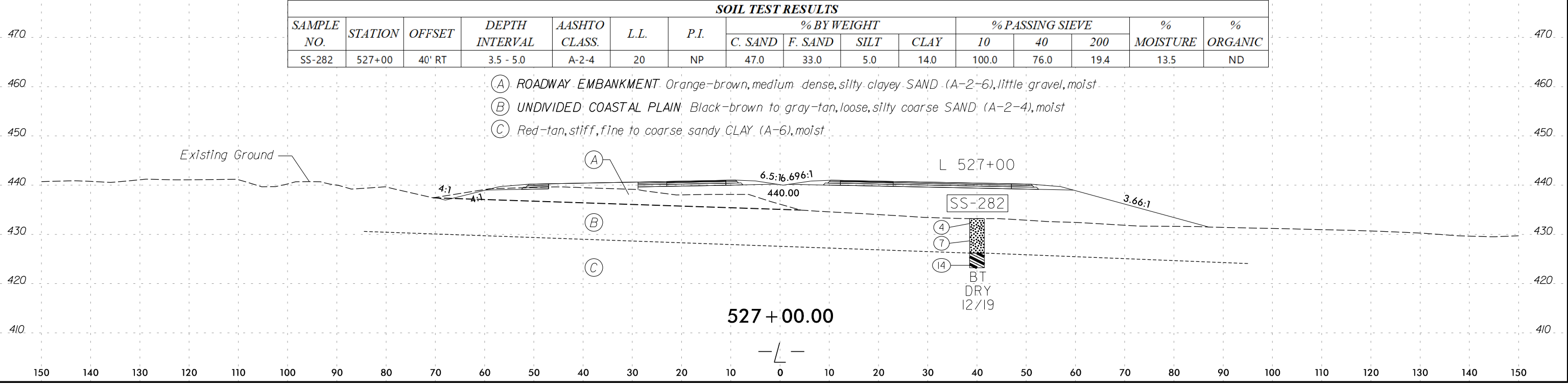


SOIL TEST RESULTS																
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200			
SS-1164	520+25	70' LT	3.5 - 5.0	A-7-6 (3)	41	17	36.0	23.0	7.0	34.0	99.0	83.0	41.0	19.0	ND	

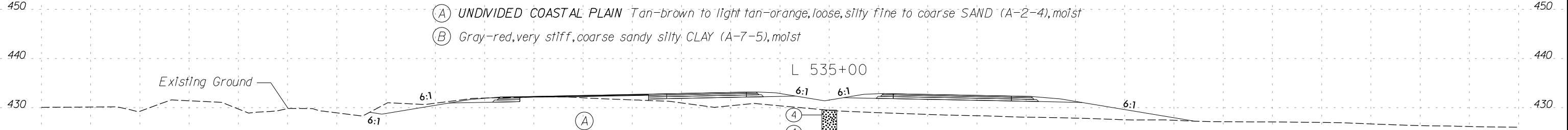




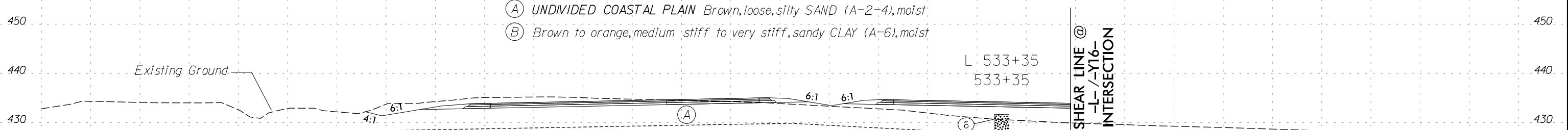
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-282	527+00	40' RT	3.5 - 5.0	A-2-4	20	NP	47.0	33.0	5.0	14.0	100.0	76.0	19.4	13.5	ND



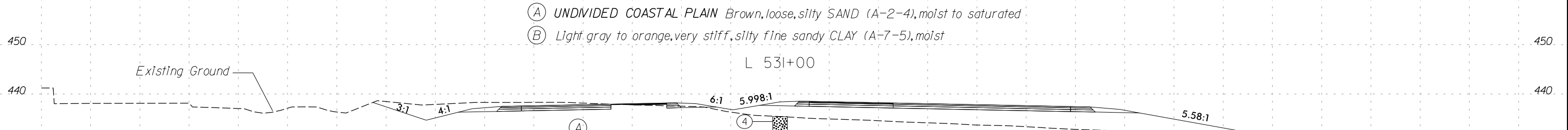
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



535 + 00.00



533 + 50.00

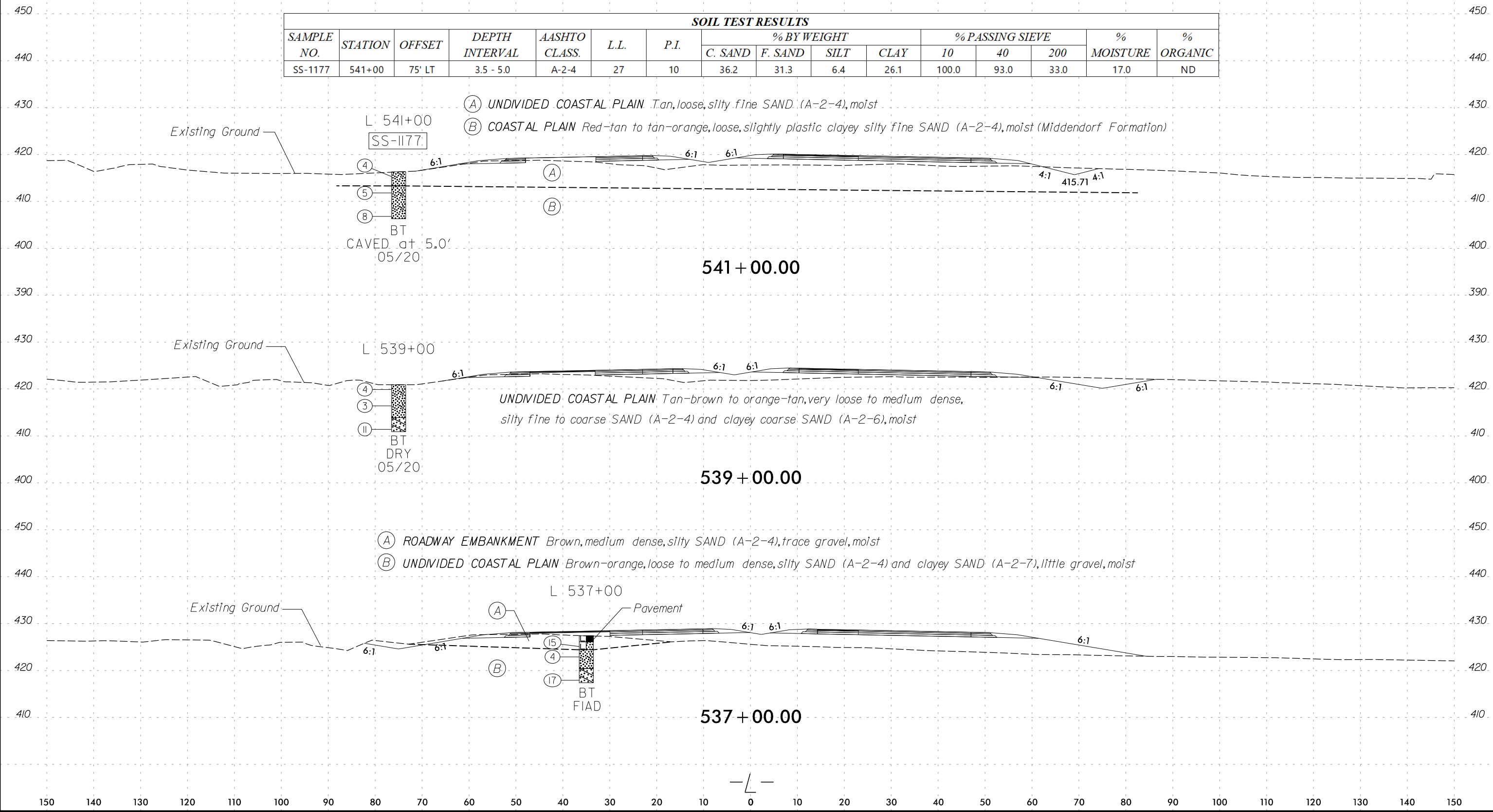


531 + 00.00

-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

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-1177	541+00	75' LT	3.5 - 5.0	A-2-4	27	10		

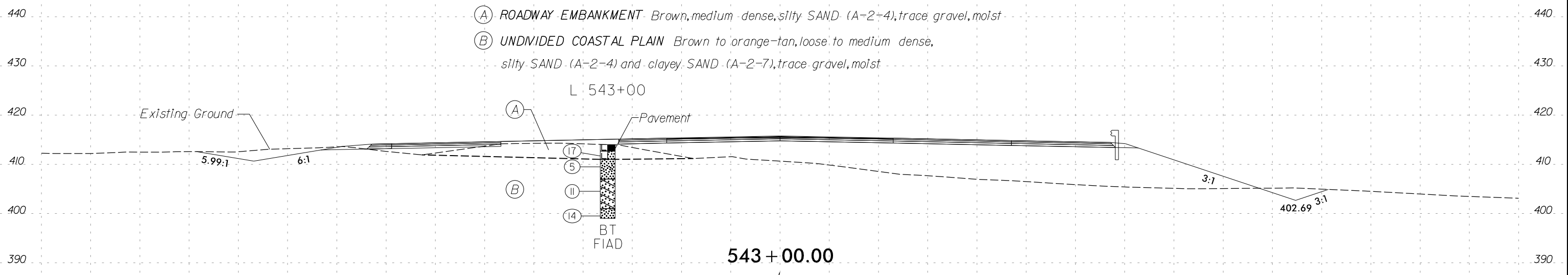
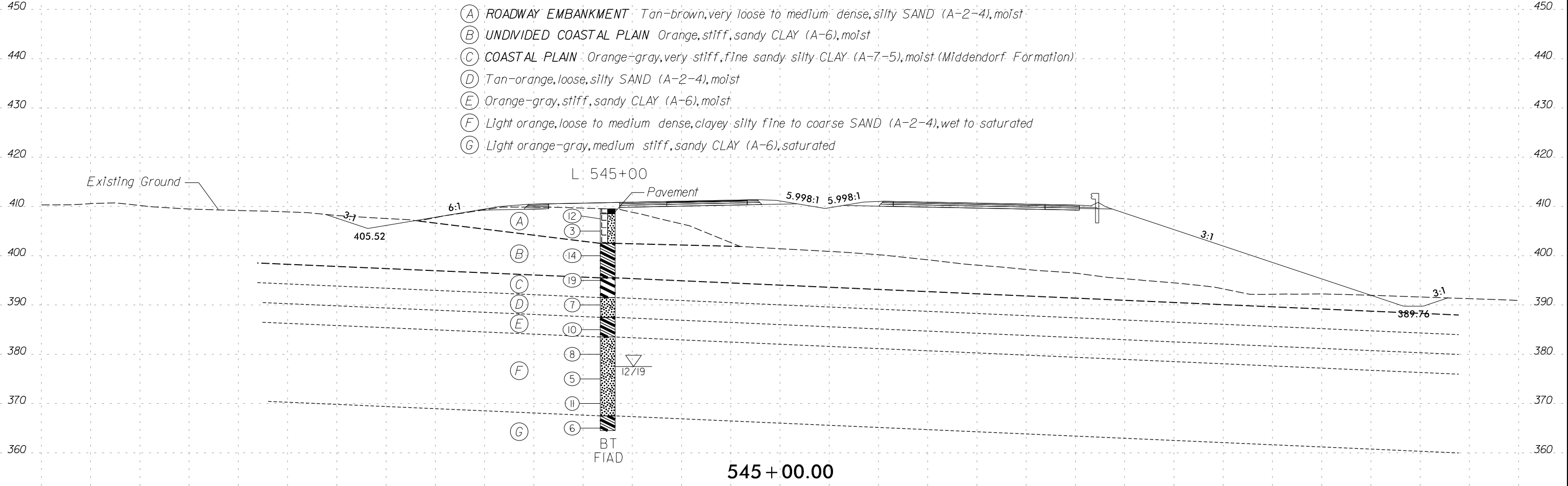


(A) *UNDIVIDED COASTAL PLAIN Tan, loose, silty fine SAND (A-2-4), moist*
 (B) *COASTAL PLAIN Red-tan to tan-orange, loose, slightly plastic clayey silty fine SAND (A-2-4), moist (Middendorf Formation)*

UNDIVIDED COASTAL PLAIN Tan-brown to orange-tan, very loose to medium dense, silty fine to coarse SAND (A-2-4) and clayey coarse SAND (A-2-6), moist

(A) *ROADWAY EMBANKMENT Brown, medium dense, silty SAND (A-2-4), trace gravel, moist*
 (B) *UNDIVIDED COASTAL PLAIN Brown-orange, loose to medium dense, silty SAND (A-2-4) and clayey SAND (A-2-7), little gravel, moist*

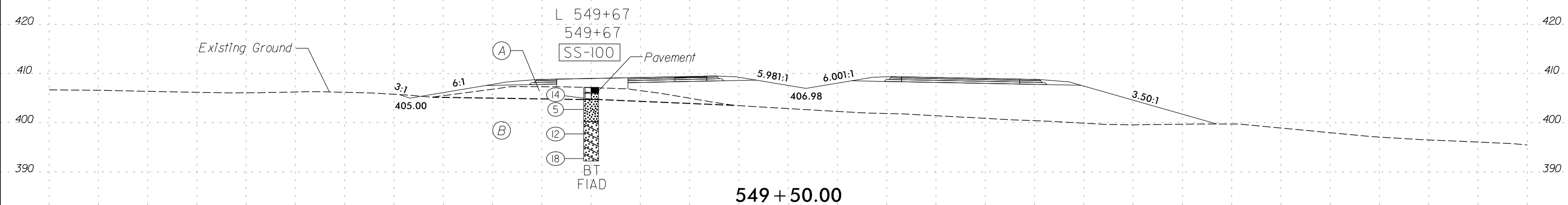
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



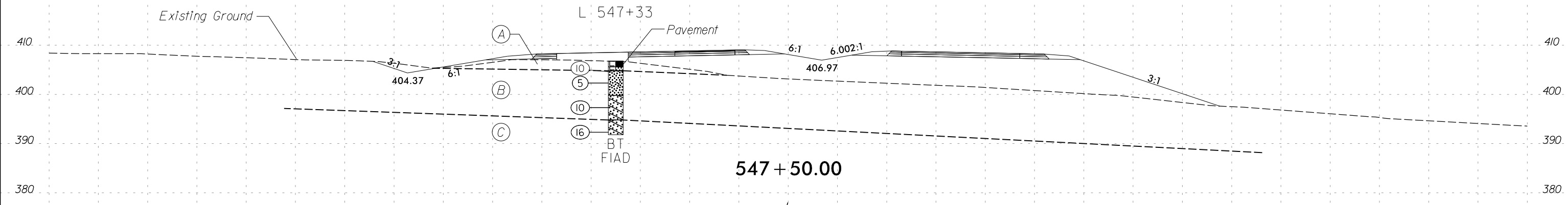
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-100	549+67	40' LT	1.2 - 2.7	A-2-4	25	7		

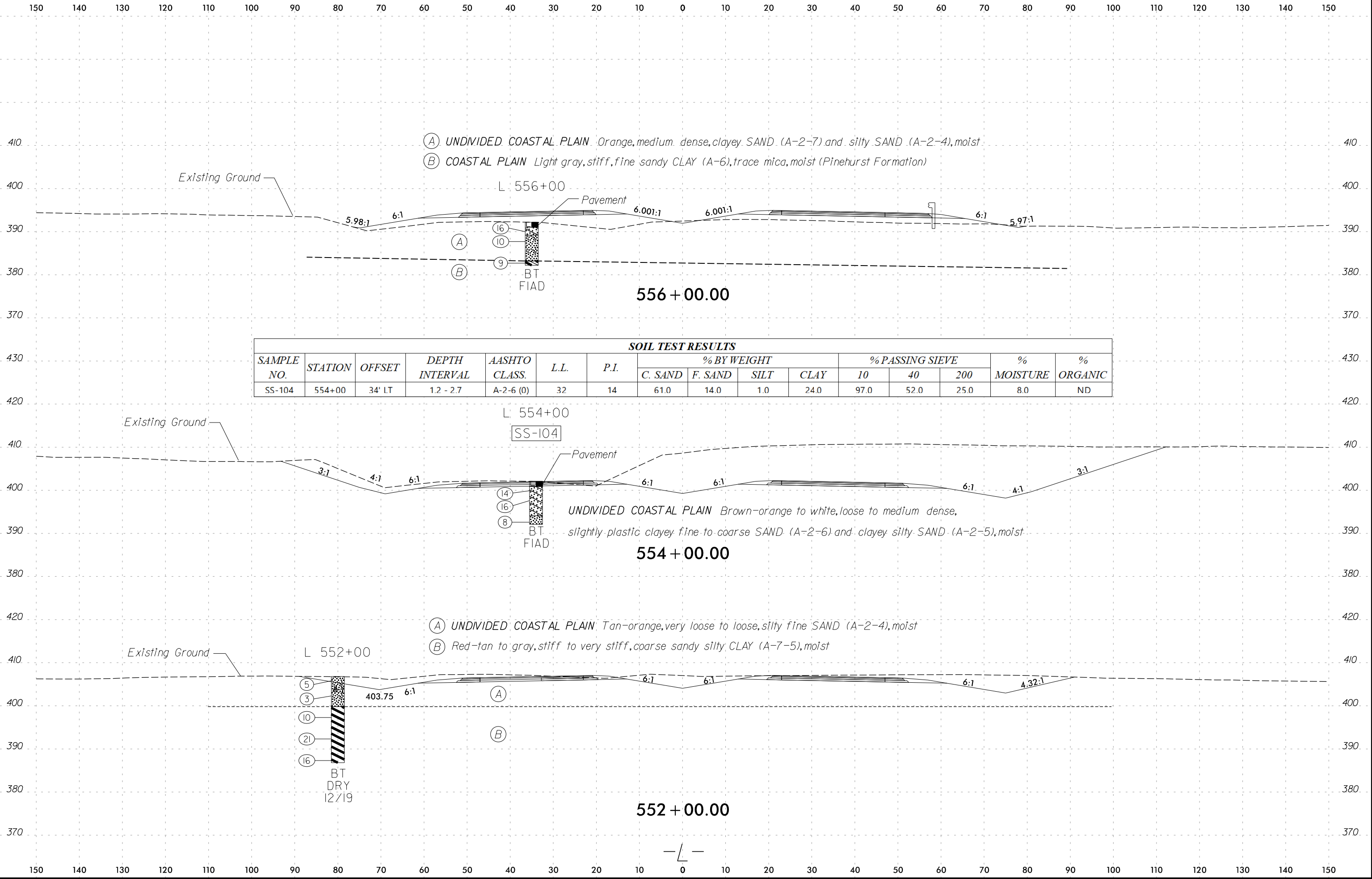
- (A) ROADWAY EMBANKMENT Orange-tan, medium dense, slightly plastic clayey silty fine to coarse SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Light brown to orange, loose to medium dense, silty SAND (A-2-4) and clayey SAND (A-2-7), moist



- (A) ROADWAY EMBANKMENT Brown-gray to orange-brown, medium dense, silty SAND (A-2-4), trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Brown-gray to orange-brown, loose to medium dense, silty SAND (A-2-4) and clayey SAND (A-2-7), trace gravel, moist
- (C) COASTAL PLAIN Tan, medium dense, clayey SAND (A-2-7), trace mica, moist (Pinehurst 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



- (A) UNDIVIDED COASTAL PLAIN Orange, medium dense, clayey SAND (A-2-7) and silty SAND (A-2-4), moist
- (B) COASTAL PLAIN Light gray, stiff, fine sandy CLAY (A-6), trace mica, moist (Pinehurst Formation)

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-104	554+00	34' LT	1.2 - 2.7	A-2-6 (0)	32	14	61.0	14.0	1.0	24.0	97.0	52.0	25.0	8.0	ND

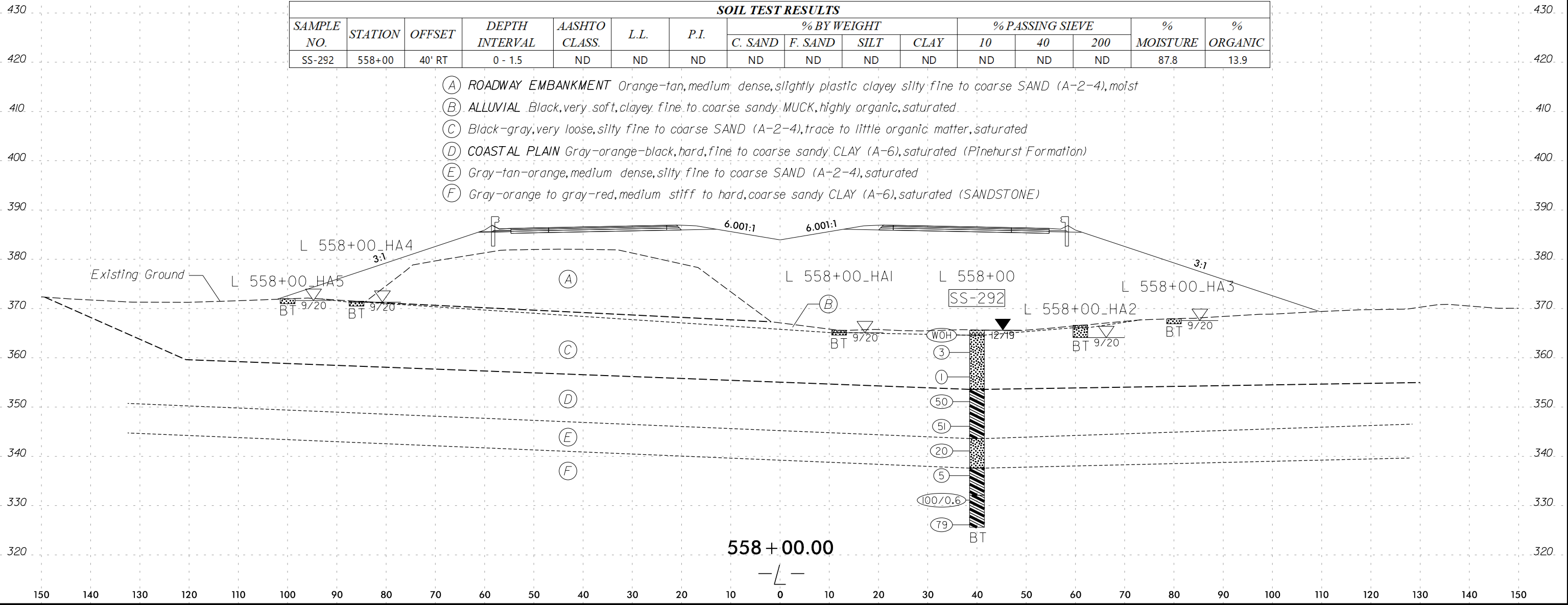
UNDIVIDED COASTAL PLAIN Brown-orange to white, loose to medium dense, slightly plastic clayey fine to coarse SAND (A-2-6) and clayey silty SAND (A-2-5), moist

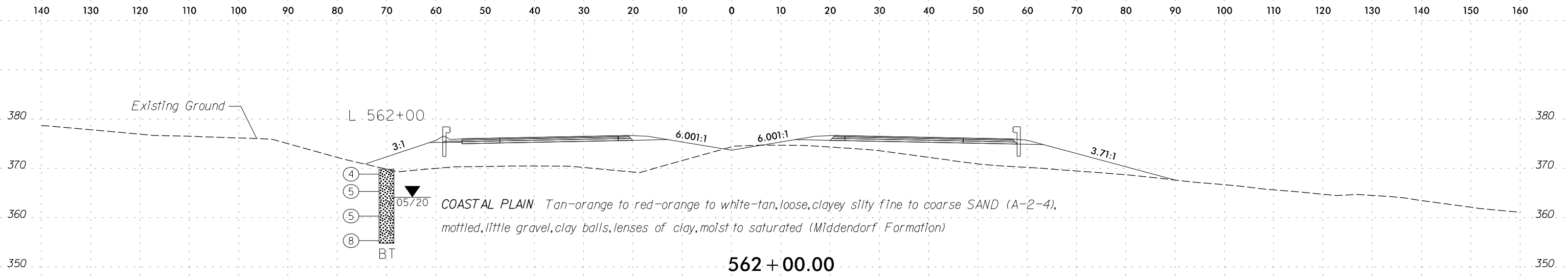
- (A) UNDIVIDED COASTAL PLAIN Tan-orange, very loose to loose, silty fine SAND (A-2-4), moist
- (B) Red-tan to gray, stiff to very stiff, coarse sandy silty CLAY (A-7-5), moist

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.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-292	558+00	40' RT	0 - 1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	87.8	13.9

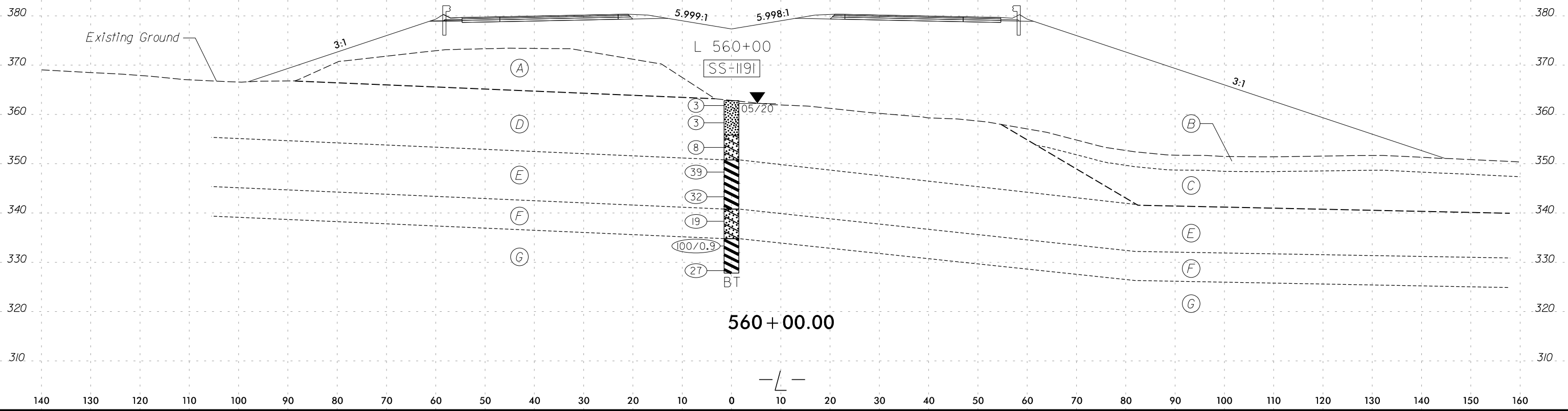
- (A) ROADWAY EMBANKMENT Orange-tan, medium dense, slightly plastic clayey silty fine to coarse SAND (A-2-4), moist
- (B) ALLUVIAL Black, very soft, clayey fine to coarse sandy MUCK, highly organic, saturated
- (C) Black-gray, very loose, silty fine to coarse SAND (A-2-4), trace to little organic matter, saturated
- (D) COASTAL PLAIN Gray-orange-black, hard, fine to coarse sandy CLAY (A-6), saturated (Pinehurst Formation)
- (E) Gray-tan-orange, medium dense, silty fine to coarse SAND (A-2-4), saturated
- (F) Gray-orange to gray-red, medium stiff to hard, coarse sandy CLAY (A-6), saturated (SANDSTONE)



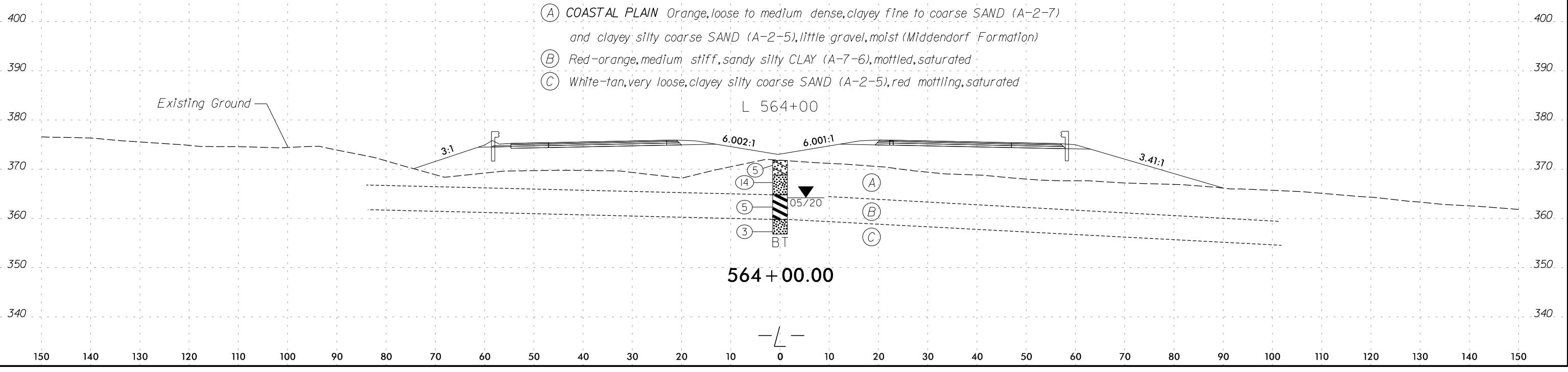
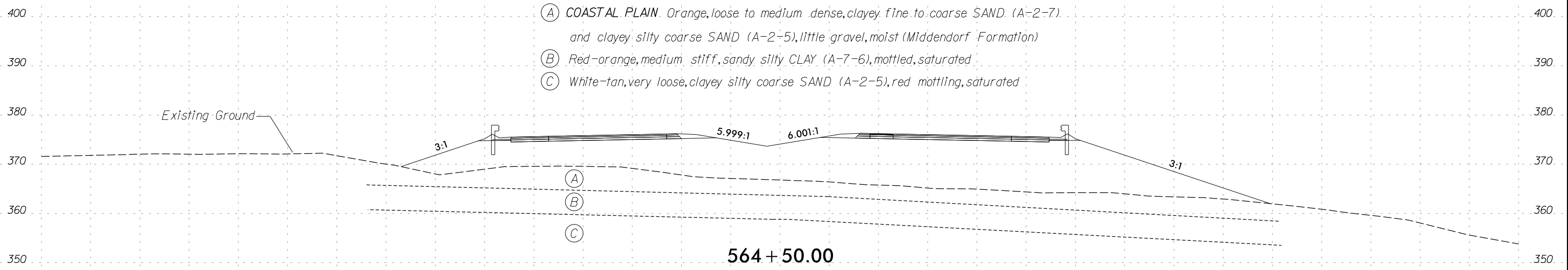


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1191	560+00	0' CL	0.0 - 1.5	A-2-4	23	NP	48.5	27.4	10.0	14.2	100.0	75.0	24.0	27.0	ND

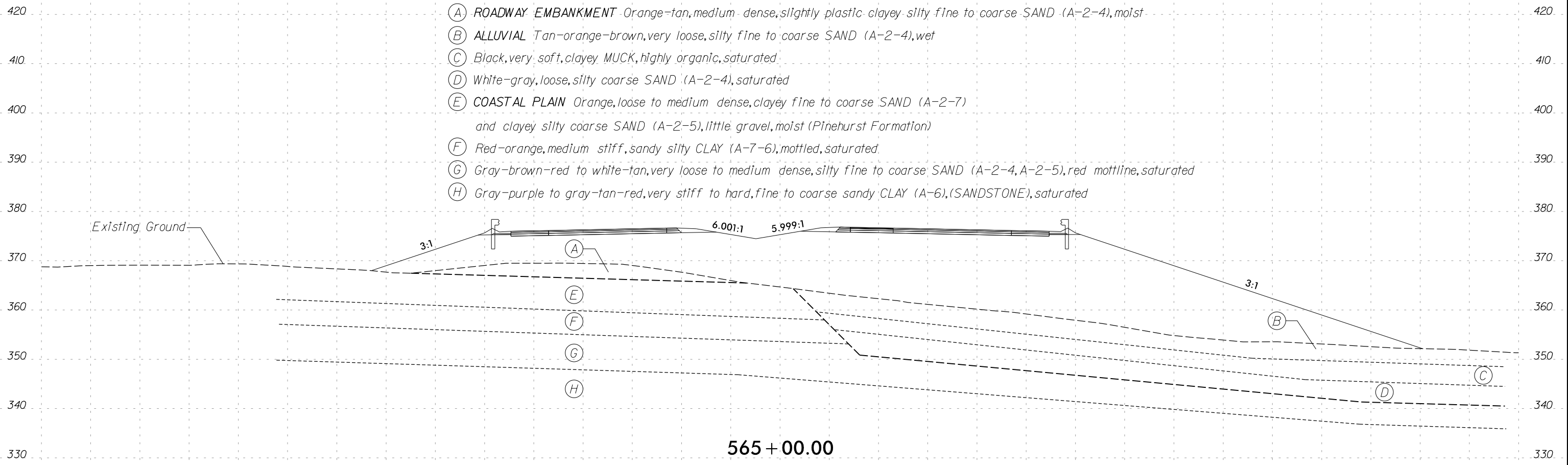
- (A) ROADWAY EMBANKMENT Orange-tan, medium dense, slightly plastic clayey silty fine to coarse SAND (A-2-4), moist
- (B) ALLUVIAL Black, very soft, clayey fine to coarse sandy MUCK, highly organic, saturated
- (C) Black-gray, very loose, silty fine to coarse SAND (A-2-4), trace to little organic matter, saturated
- (D) COASTAL PLAIN Gray-black to tan, very loose to loose, silty SAND (A-2-4) and silty clayey coarse SAND (A-2-6), little gravel, wet to saturated (Middendorf Formation)
- (E) Gray to orange, hard, fine sandy silty CLAY (A-7-6), purple and orange mottling, saturated
- (F) Gray, medium dense, silty clayey fine SAND (A-2-6), purple and orange mottling, saturated
- (G) Gray, very stiff to hard, fine sandy silty CLAY (A-7-6), trace mica, saturated (MUDSTONE)



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



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

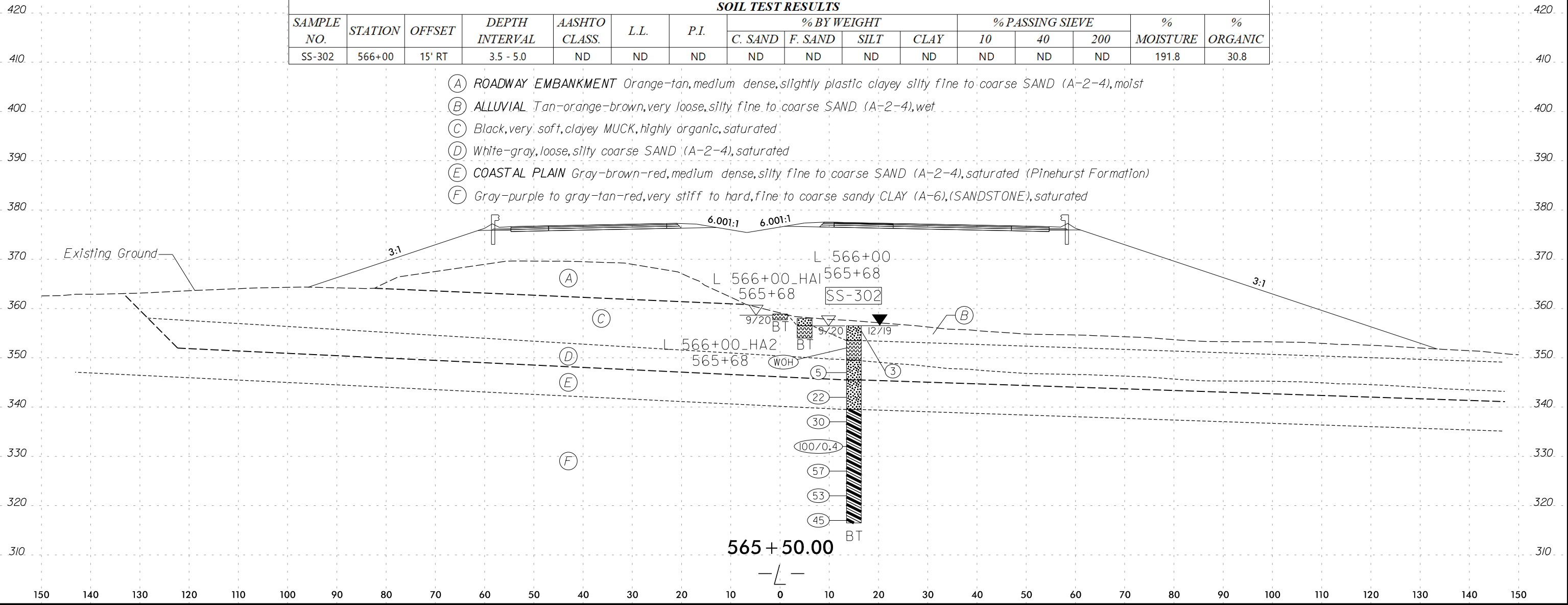


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

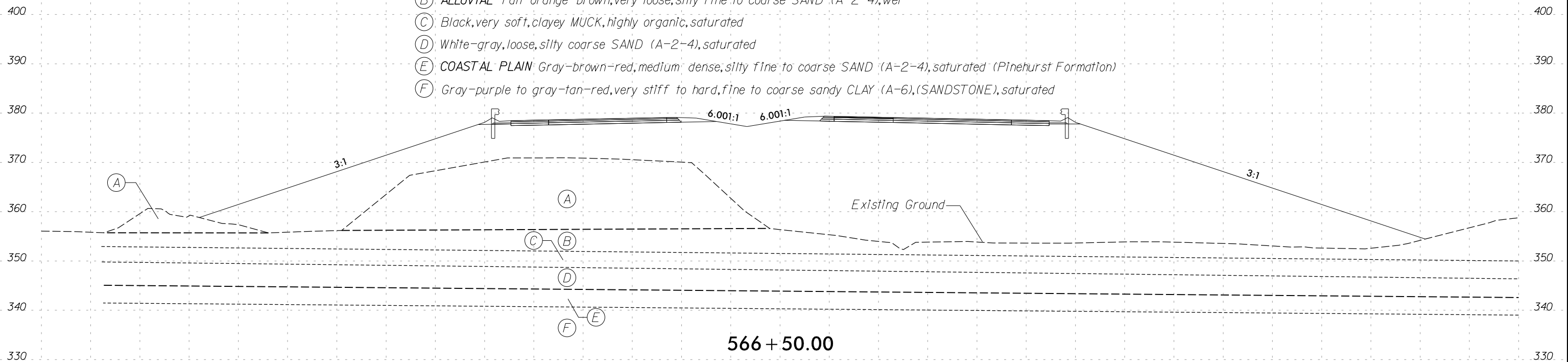
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-302	566+00	15' RT	3.5 - 5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	191.8	30.8

- (A) ROADWAY EMBANKMENT Orange-tan, medium dense, slightly plastic clayey silty fine to coarse SAND (A-2-4), moist
- (B) ALLUVIAL Tan-orange-brown, very loose, silty fine to coarse SAND (A-2-4), wet
- (C) Black, very soft, clayey MUCK, highly organic, saturated
- (D) White-gray, loose, silty coarse SAND (A-2-4), saturated
- (E) COASTAL PLAIN Gray-brown-red, medium dense, silty fine to coarse SAND (A-2-4), saturated (Pinehurst Formation)
- (F) Gray-purple to gray-tan-red, very stiff to hard, fine to coarse sandy CLAY (A-6), (SANDSTONE), saturated

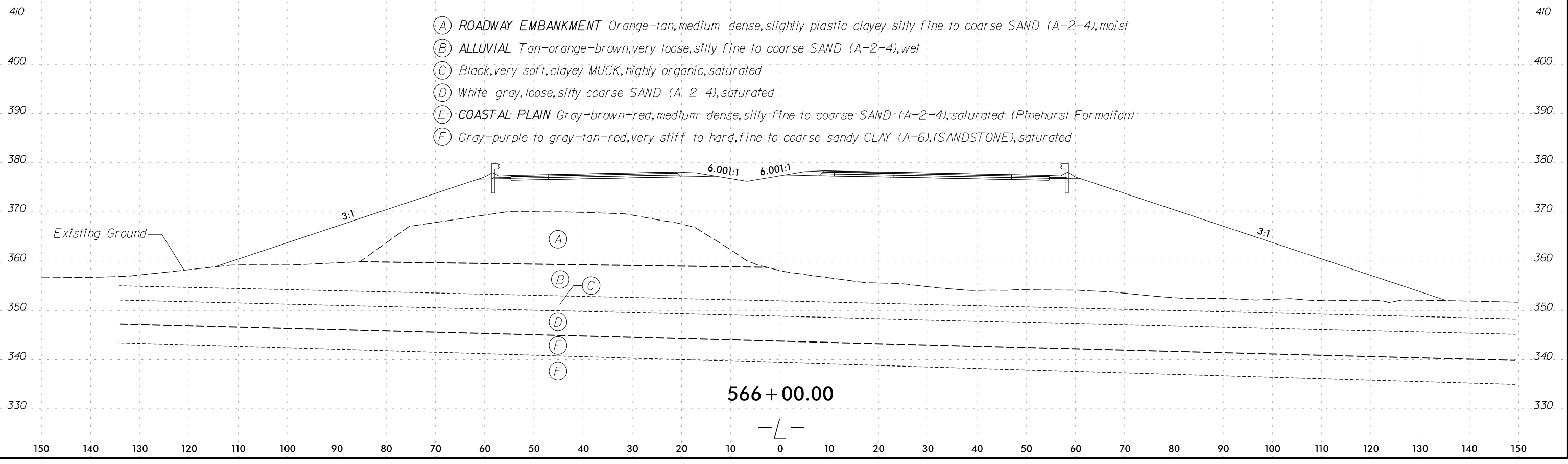


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

- (A) ROADWAY EMBANKMENT Orange-tan, medium dense, slightly plastic clayey silty fine to coarse SAND (A-2-4), moist
- (B) ALLUVIAL Tan-orange-brown, very loose, silty fine to coarse SAND (A-2-4), wet
- (C) Black, very soft, clayey MUCK, highly organic, saturated
- (D) White-gray, loose, silty coarse SAND (A-2-4), saturated
- (E) COASTAL PLAIN Gray-brown-red, medium dense, silty fine to coarse SAND (A-2-4), saturated (Pinehurst Formation)
- (F) Gray-purple to gray-tan-red, very stiff to hard, fine to coarse sandy CLAY (A-6), (SANDSTONE), saturated



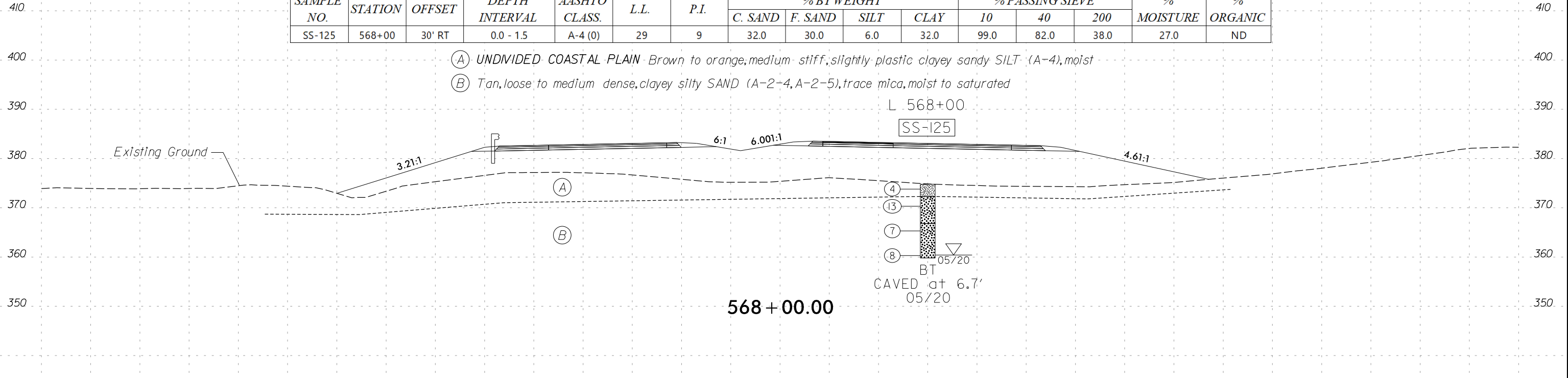
- (A) ROADWAY EMBANKMENT Orange-tan, medium dense, slightly plastic clayey silty fine to coarse SAND (A-2-4), moist
- (B) ALLUVIAL Tan-orange-brown, very loose, silty fine to coarse SAND (A-2-4), wet
- (C) Black, very soft, clayey MUCK, highly organic, saturated
- (D) White-gray, loose, silty coarse SAND (A-2-4), saturated
- (E) COASTAL PLAIN Gray-brown-red, medium dense, silty fine to coarse SAND (A-2-4), saturated (Pinehurst Formation)
- (F) Gray-purple to gray-tan-red, very stiff to hard, fine to coarse sandy CLAY (A-6), (SANDSTONE), saturated



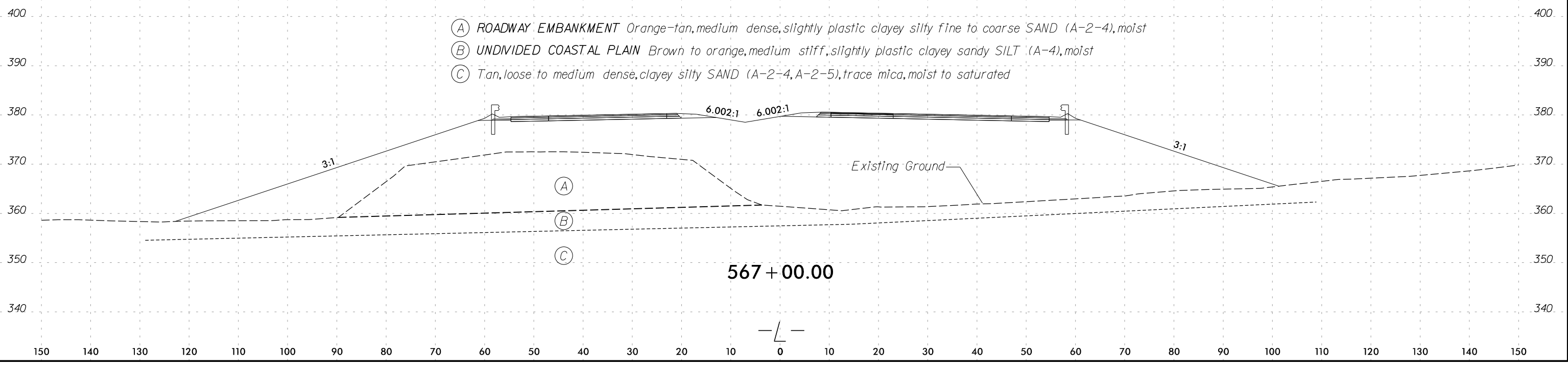
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-125	568+00	30' RT	0.0 - 1.5	A-4 (0)	29	9	32.0	30.0	6.0	32.0	99.0	82.0	38.0	27.0	ND

- (A) UNDIVIDED COASTAL PLAIN Brown to orange, medium stiff, slightly plastic clayey sandy SILT (A-4), moist
- (B) Tan, loose to medium dense, clayey silty SAND (A-2-4, A-2-5), trace mica, moist to saturated



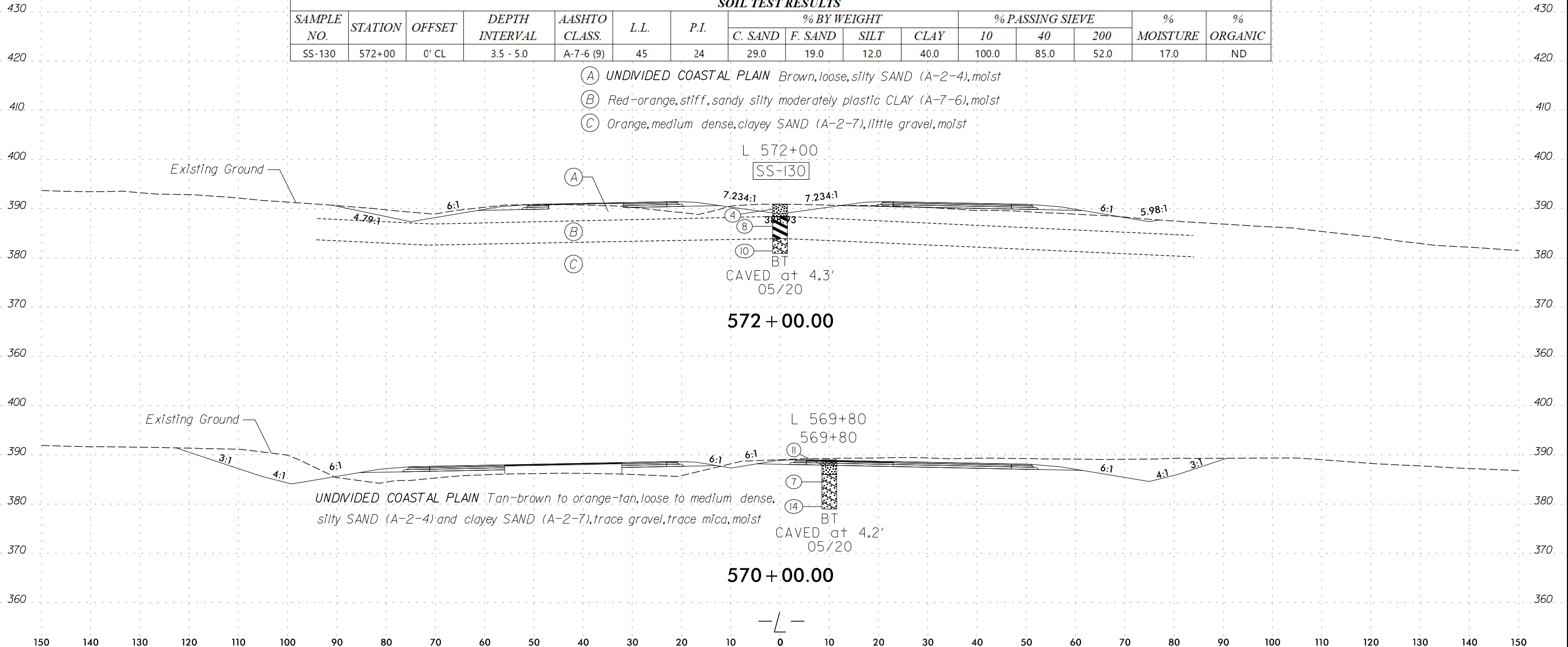
- (A) ROADWAY EMBANKMENT Orange-tan, medium dense, slightly plastic clayey silty fine to coarse SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown to orange, medium stiff, slightly plastic clayey sandy SILT (A-4), moist
- (C) Tan, loose to medium dense, clayey silty SAND (A-2-4, A-2-5), trace mica, moist to saturated



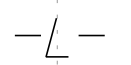
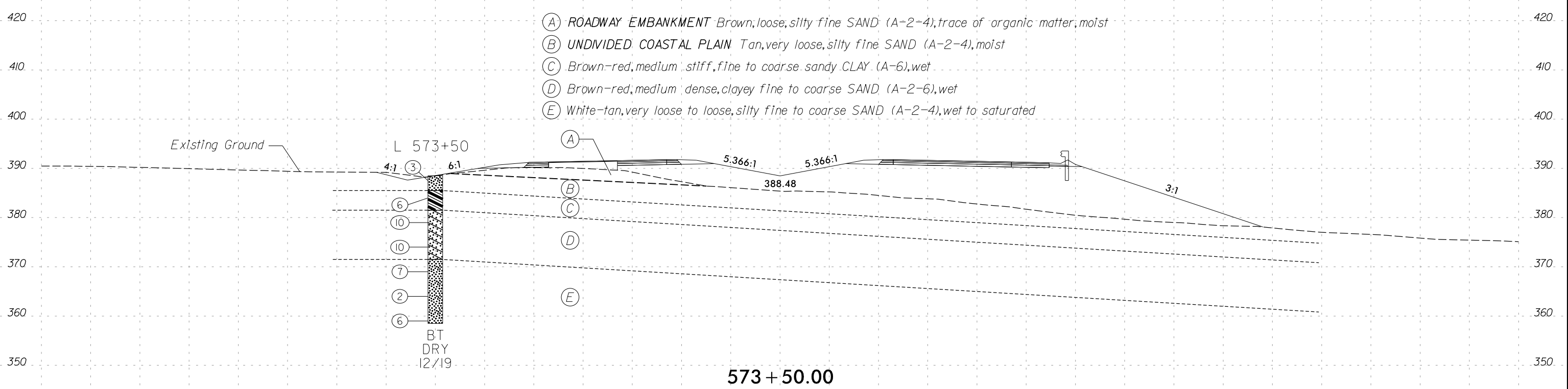
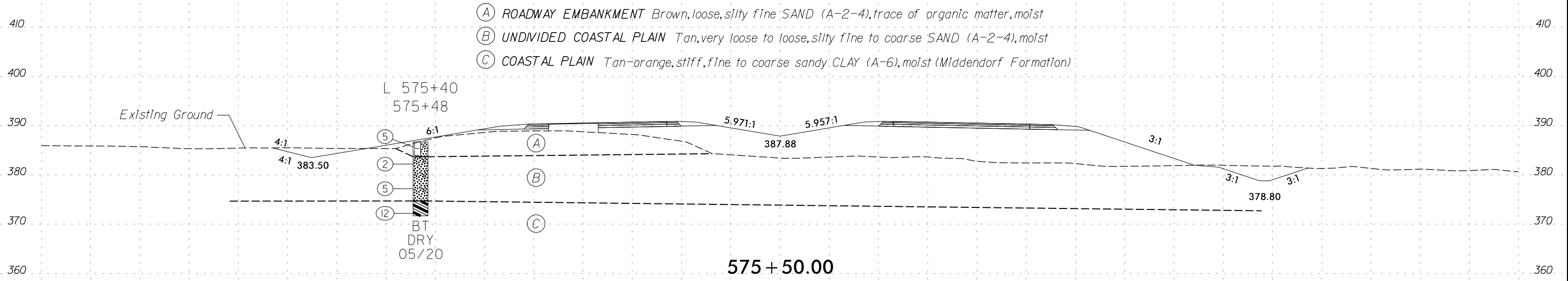
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-130	572+00	0' CL	3.5 - 5.0	A-7-6 (9)	45	24		

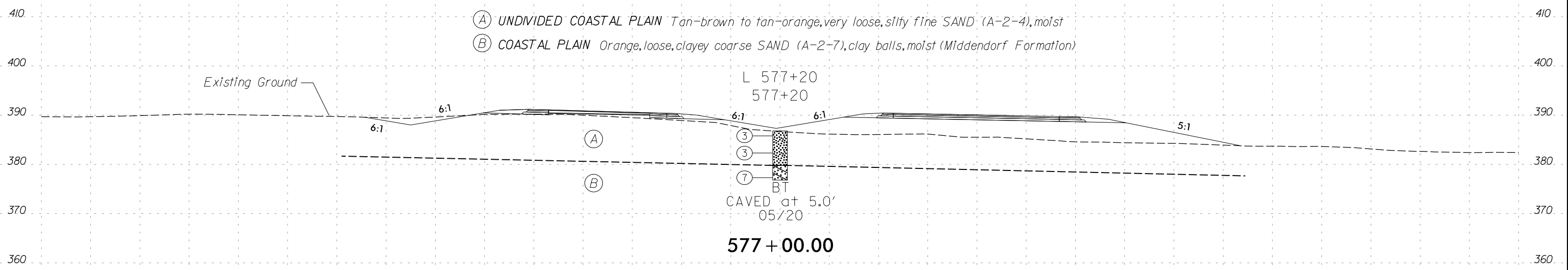
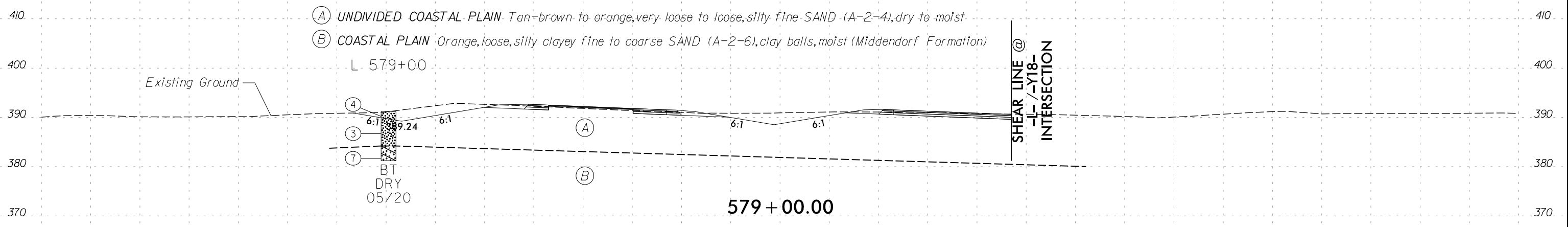
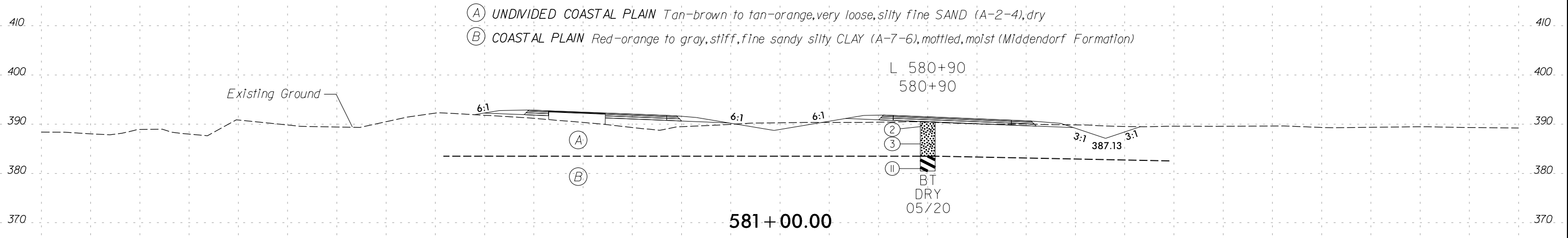
- (A) UNDIVIDED COASTAL PLAIN Brown, loose, silty SAND (A-2-4), moist
- (B) Red-orange, stiff, sandy silty moderately plastic CLAY (A-7-6), moist
- (C) Orange, medium dense, clayey SAND (A-2-7), little gravel, moist

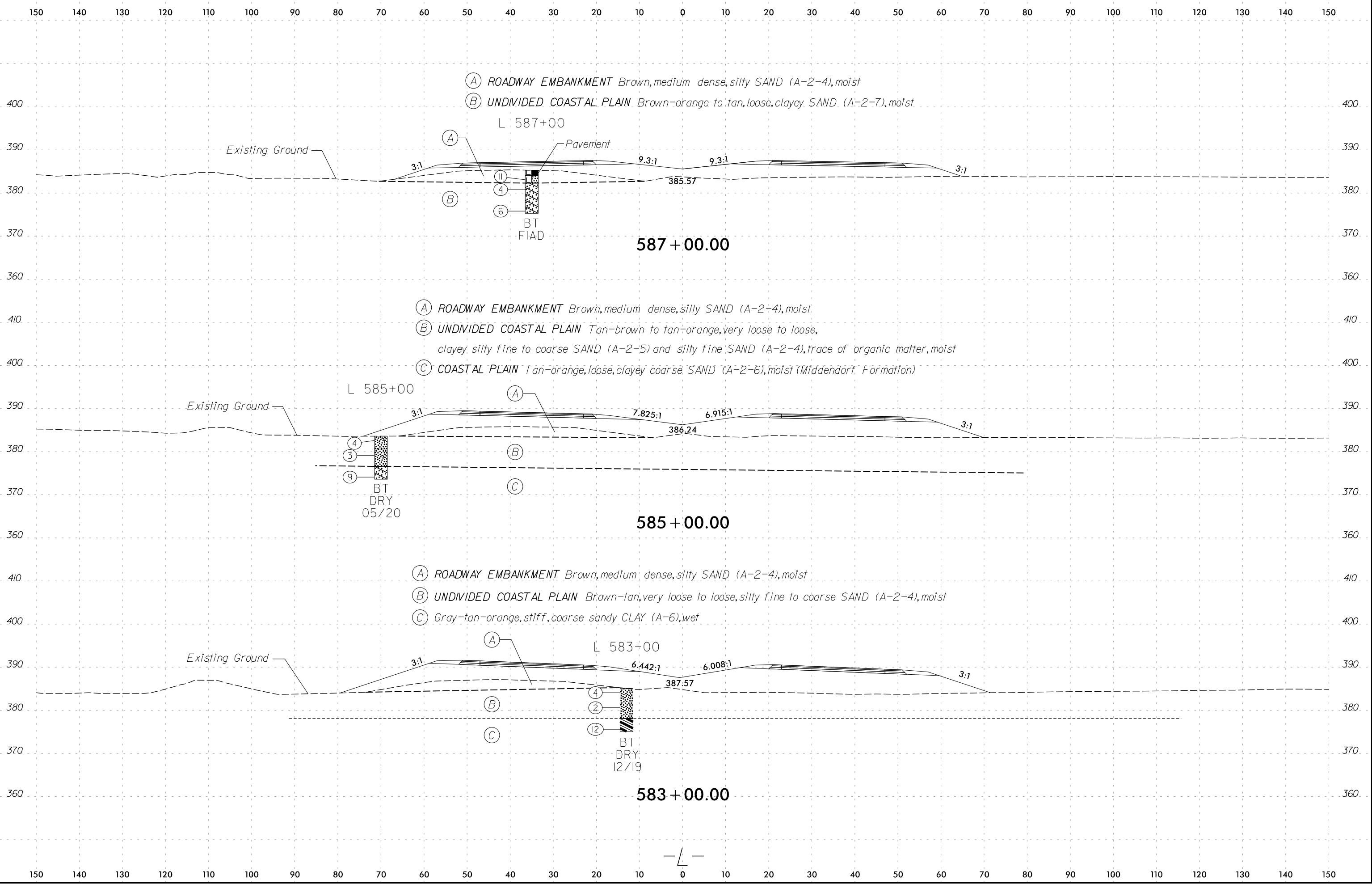


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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

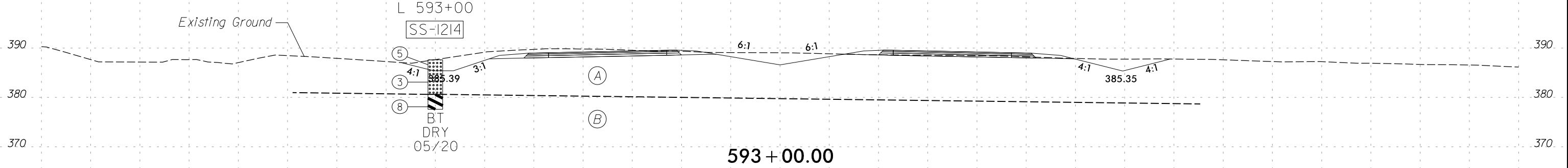




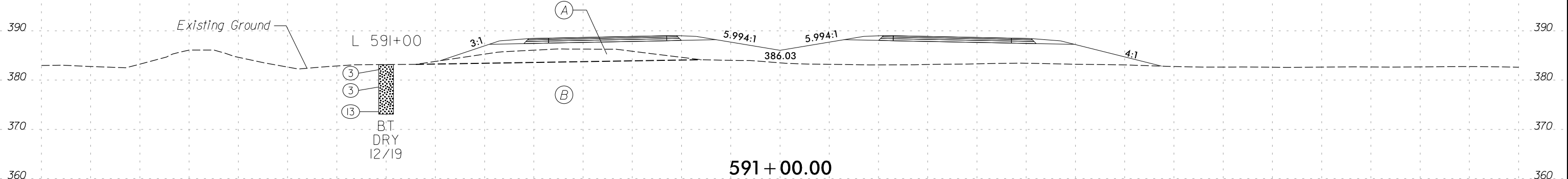
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-1214	593+00	70' LT	0.0 - 1.5	A-3	20	NP		

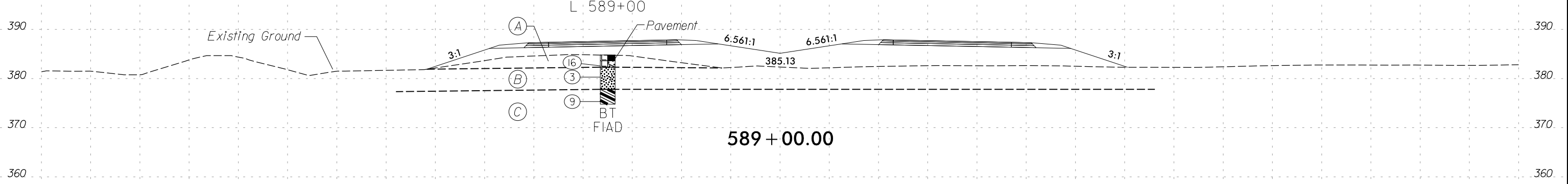
- (A) UNDIVIDED COASTAL PLAIN Tan-orange, very loose to loose, fine SAND (A-3), trace gravel, moist
- (B) COASTAL PLAIN Tan-orange, stiff, fine sandy silty CLAY (A-7-6), trace mica, moist (Middendorf Formation)



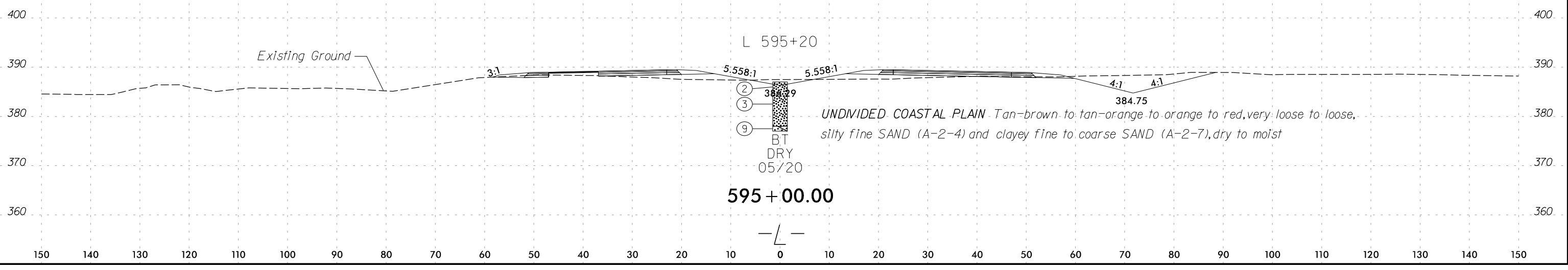
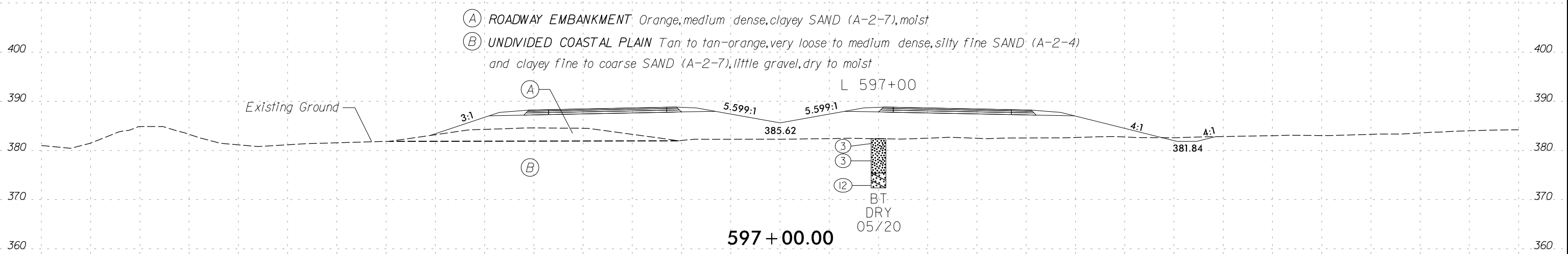
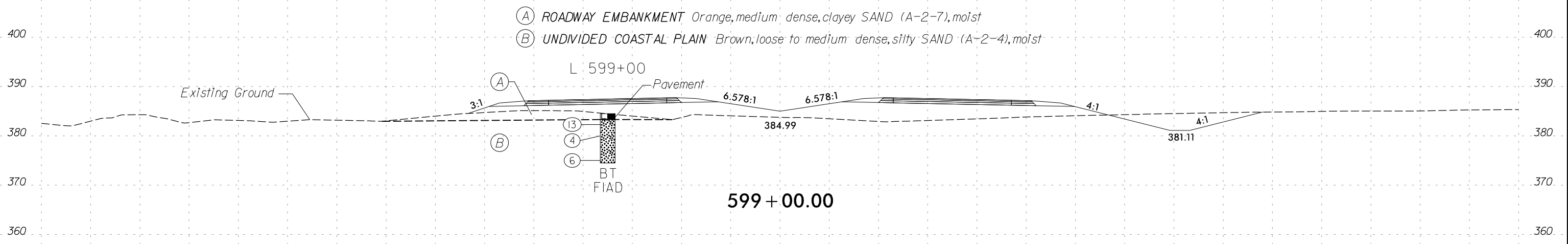
- (A) ROADWAY EMBANKMENT Orange, medium dense, clayey SAND (A-2-7), moist
- (B) UNDIVIDED COASTAL PLAIN Gray to brown to light gray, very loose to medium dense, silty fine to coarse SAND (A-2-4), trace roots, moist



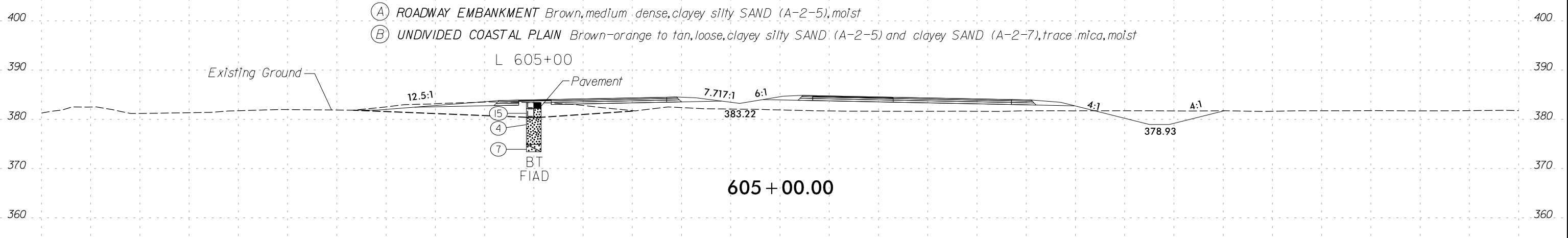
- (A) ROADWAY EMBANKMENT Orange, medium dense, clayey SAND (A-2-7), moist
- (B) UNDIVIDED COASTAL PLAIN Brown-orange, very loose, silty SAND (A-2-4), moist
- (C) COASTAL PLAIN Brown-orange, stiff, sandy CLAY (A-6), moist



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

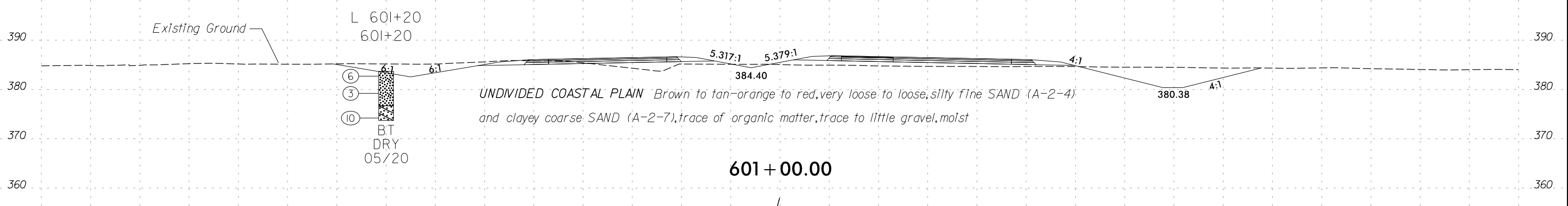
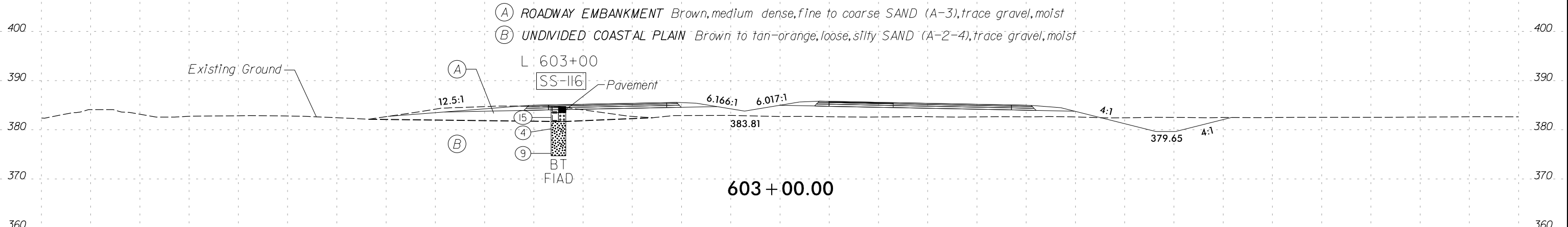


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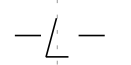
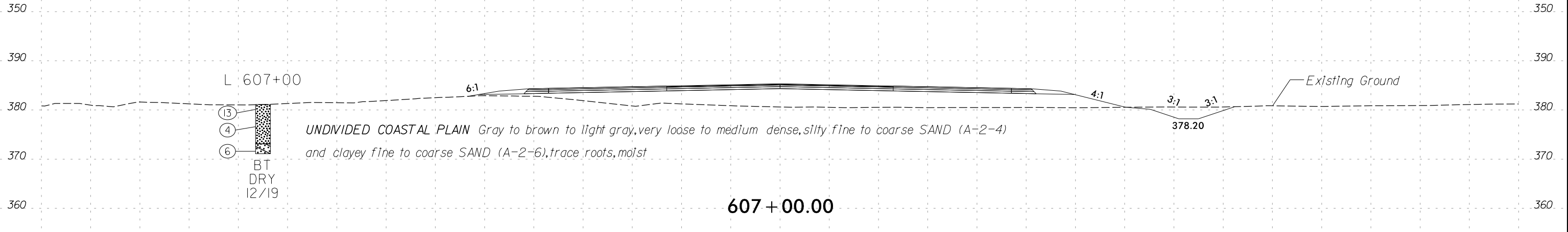
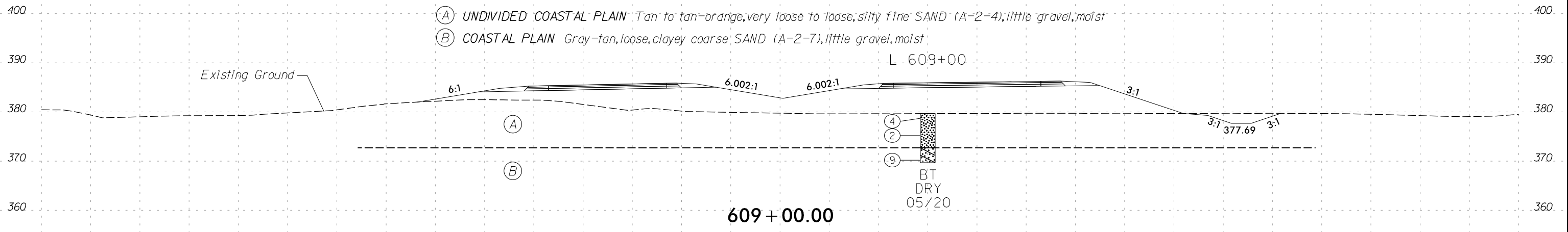
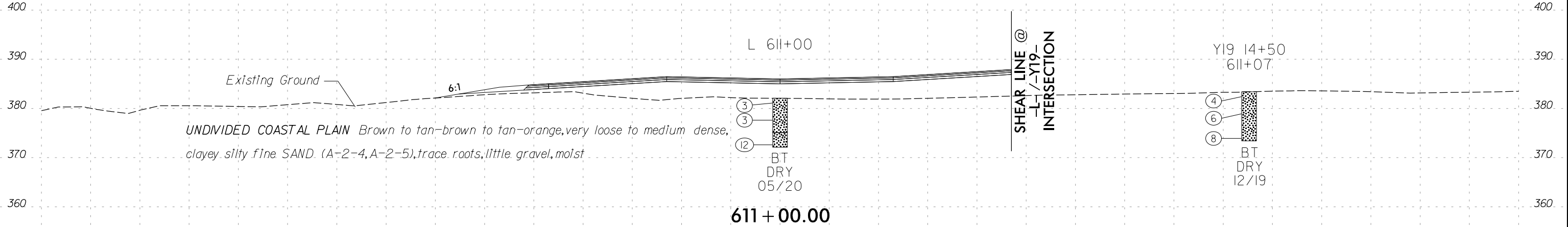


SOIL TEST RESULTS

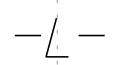
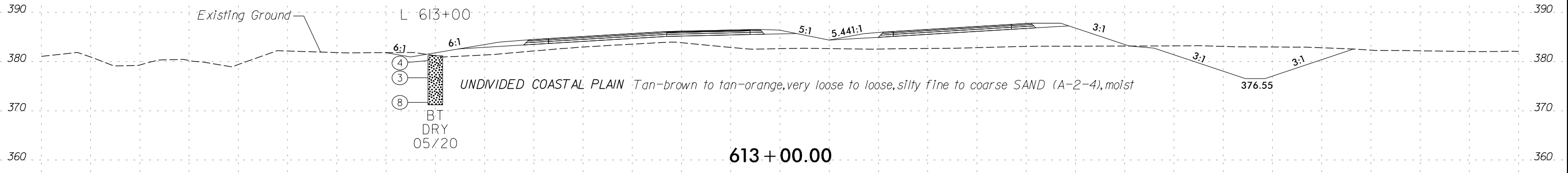
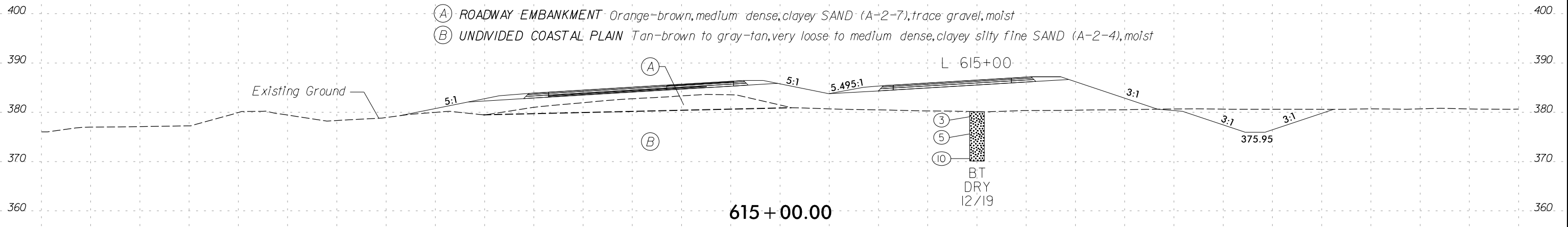
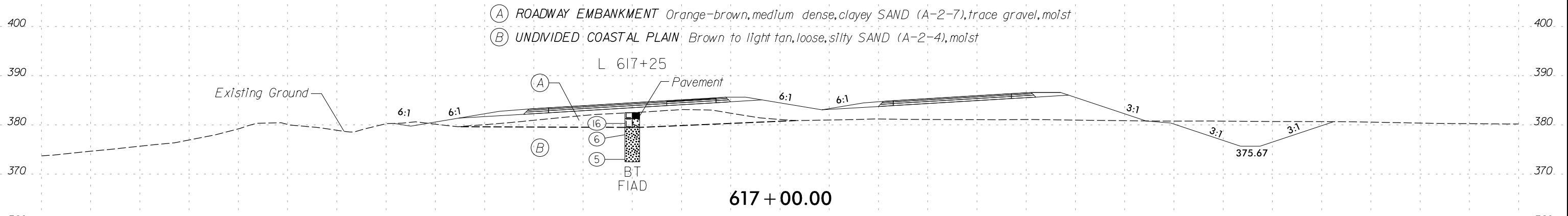
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS - 116	603+00	45' LT	1.2 - 2.7	A-3	16	NP	58.8	35.1	2.1	4.0	100.0	69.0	6.1	5.2	ND

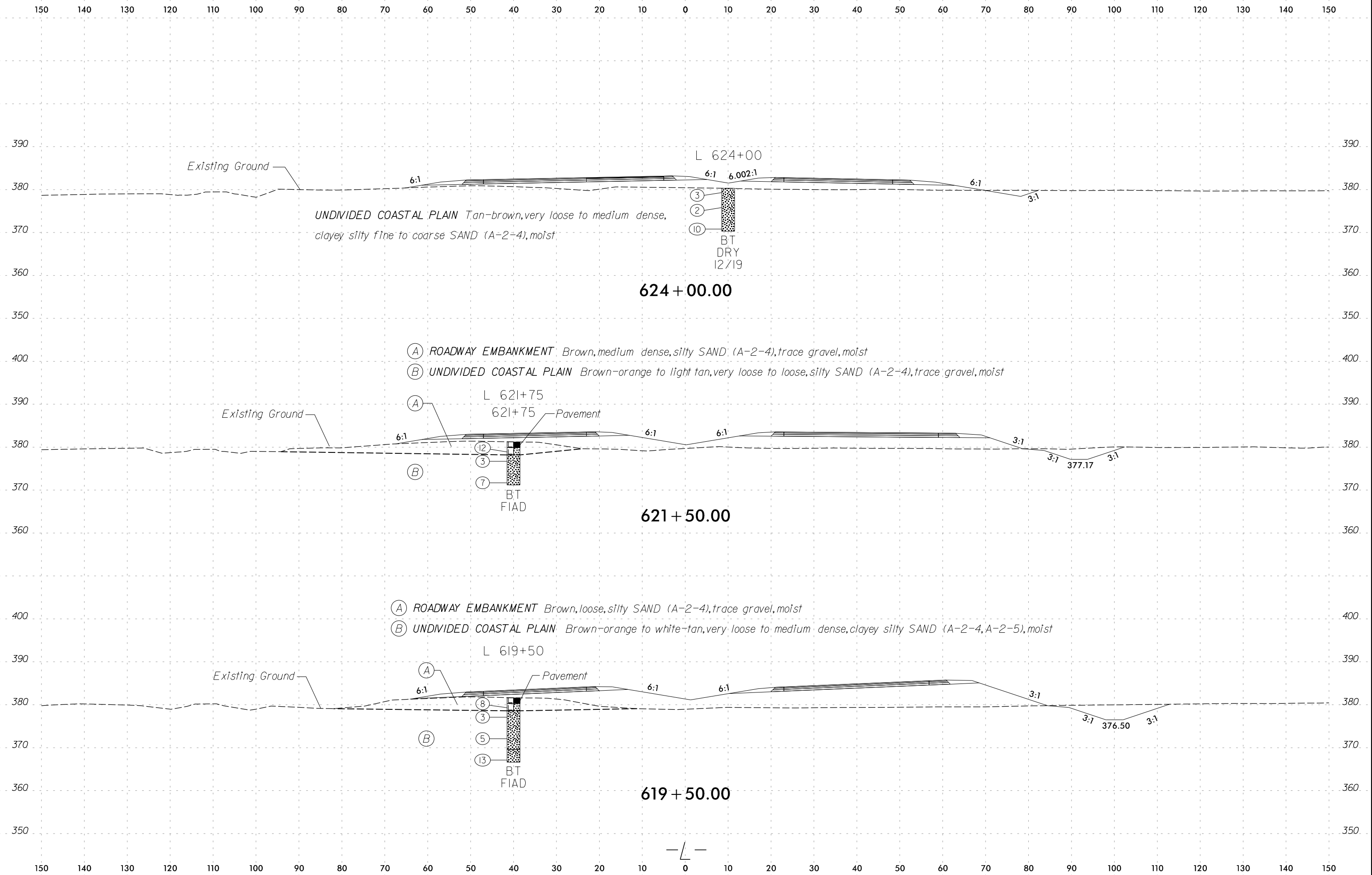


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



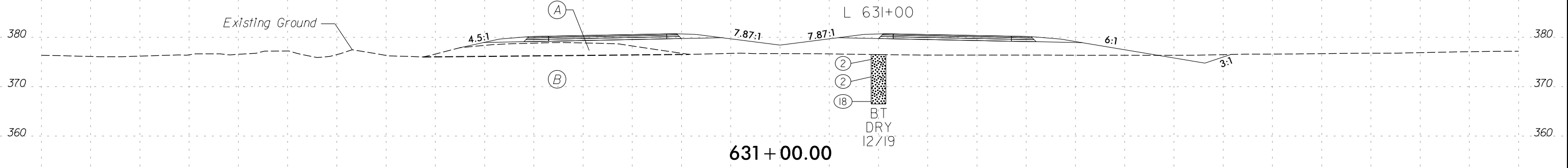
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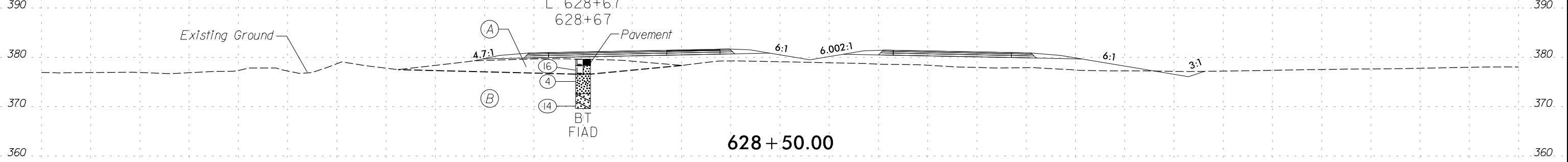


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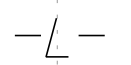
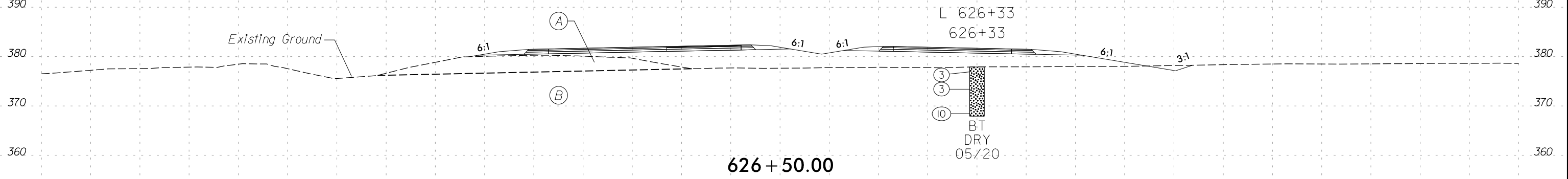
- (A) ROADWAY EMBANKMENT *Brown-orange, medium dense, clayey silty SAND (A-2-5), little gravel, moist*
- (B) UNDIVIDED COASTAL PLAIN *Tan-brown-orange, very loose to medium dense, silty fine to coarse SAND (A-2-4), moist*



- (A) ROADWAY EMBANKMENT *Brown, medium dense, silty SAND (A-2-4), trace gravel, moist*
- (B) UNDIVIDED COASTAL PLAIN *Brown-orange to red-brown, loose to medium dense, silty SAND (A-2-4) and clayey SAND (A-2-7), moist*

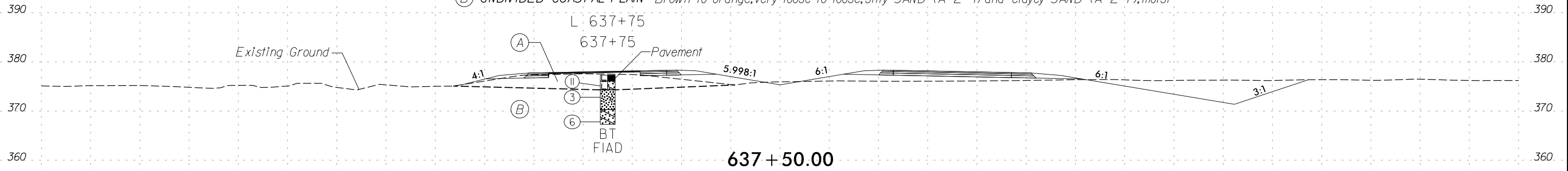


- (A) ROADWAY EMBANKMENT *Brown, medium dense, silty SAND (A-2-4), trace gravel, moist*
- (B) UNDIVIDED COASTAL PLAIN *Brown to tan-orange to white-tan, very loose to medium dense, silty fine to coarse SAND (A-2-4), moist*

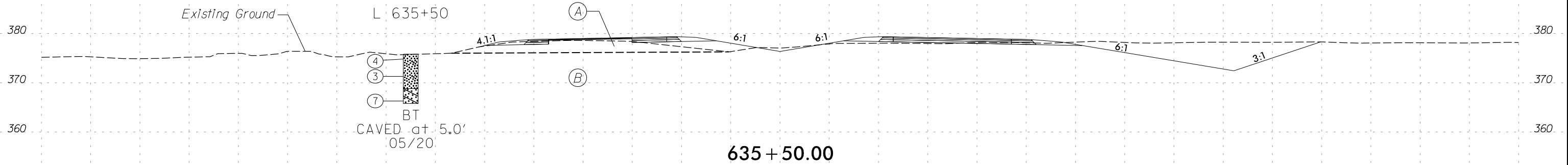


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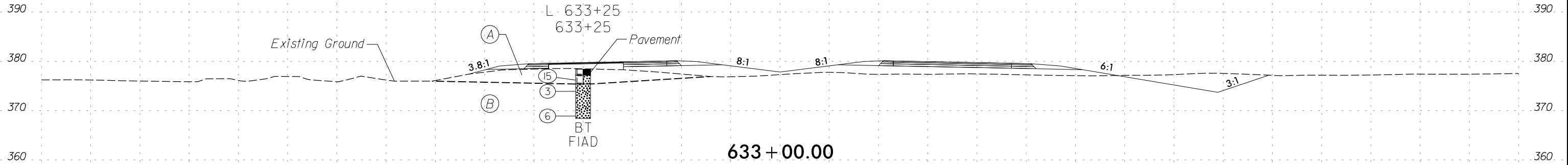
- (A) ROADWAY EMBANKMENT Orange-brown, medium dense, clayey SAND (A-2-7), trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Brown to orange, very loose to loose, silty SAND (A-2-4) and clayey SAND (A-2-7), moist



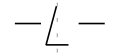
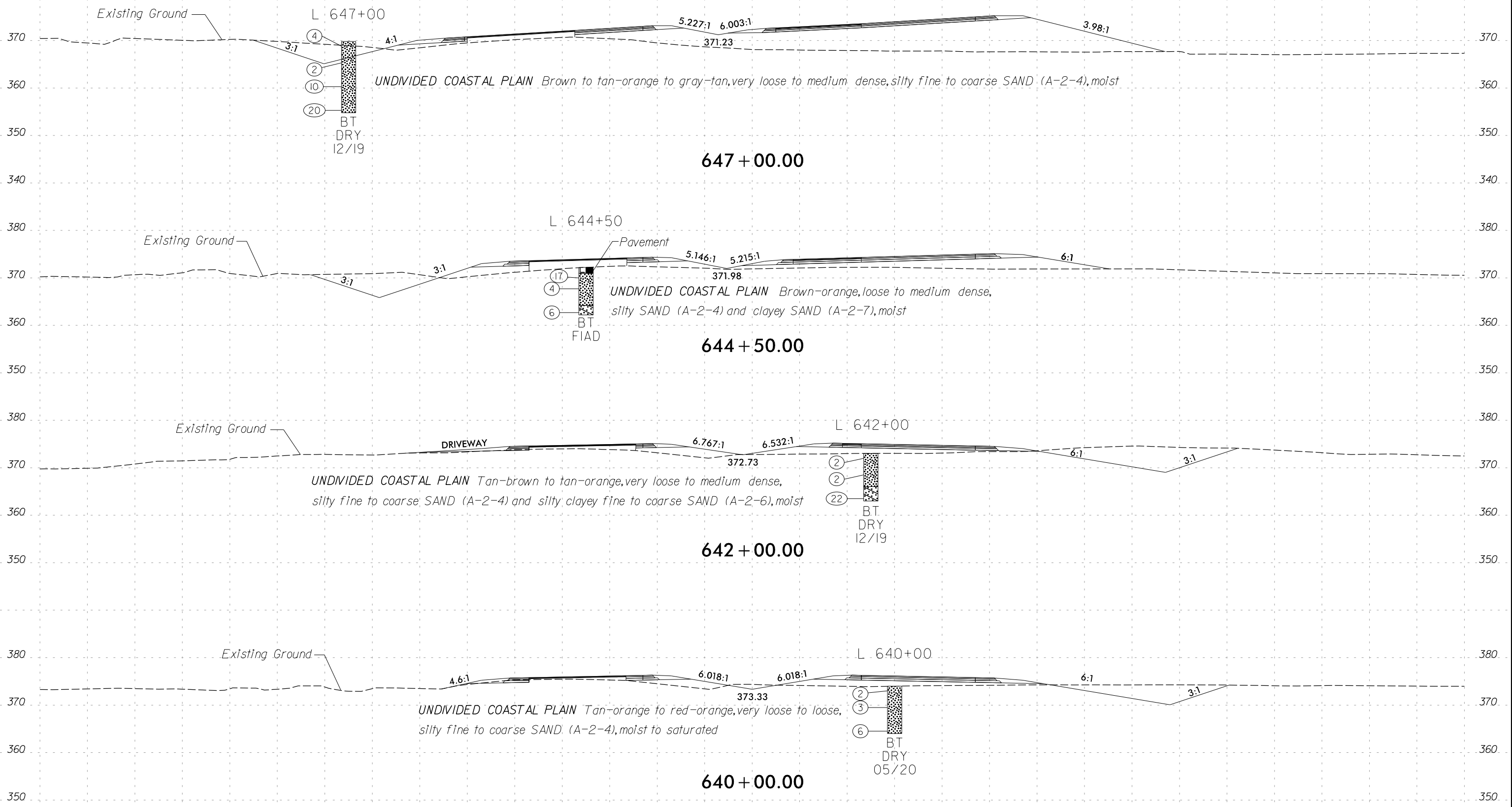
- (A) ROADWAY EMBANKMENT Brown-orange, medium dense, clayey silty SAND (A-2-5), little gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Tan to tan-orange, very loose to loose, silty fine SAND (A-2-4) and silty clayey fine to coarse SAND (A-2-7), moist



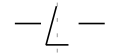
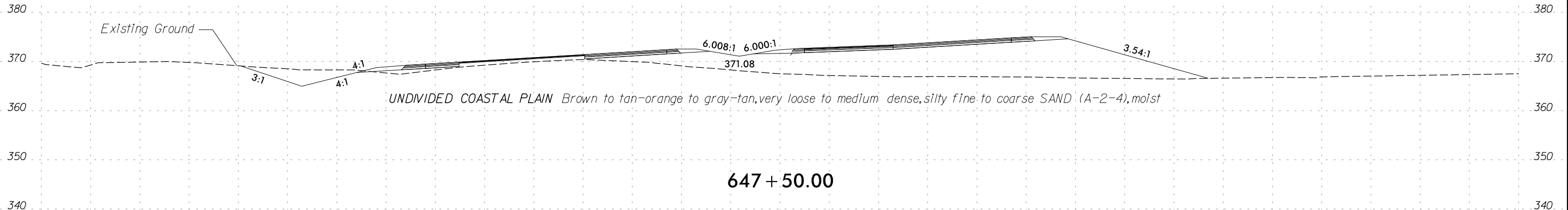
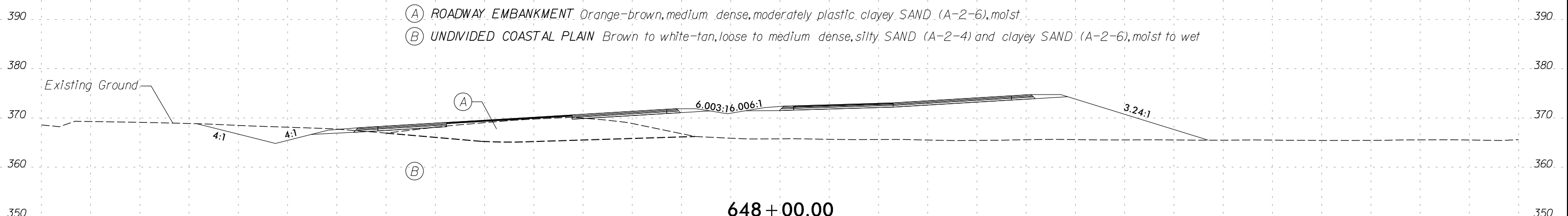
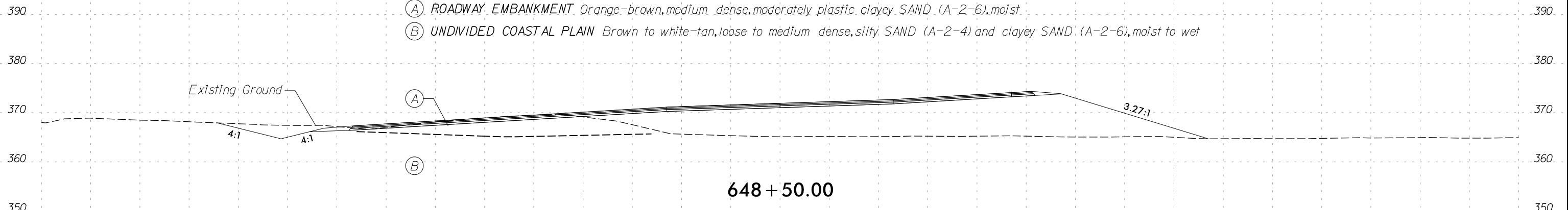
- (A) ROADWAY EMBANKMENT Brown-orange, medium dense, clayey silty SAND (A-2-5), little gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Orange-brown to tan-orange, very loose to loose, silty SAND (A-2-4), moist

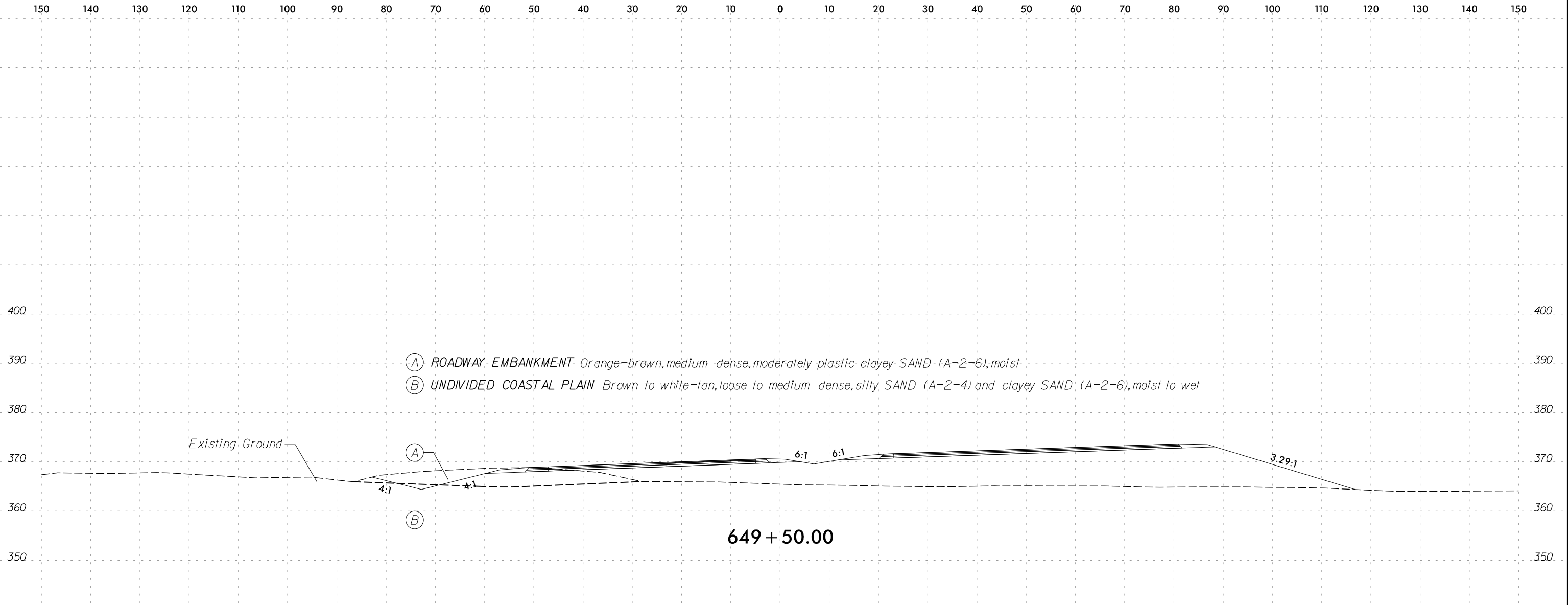


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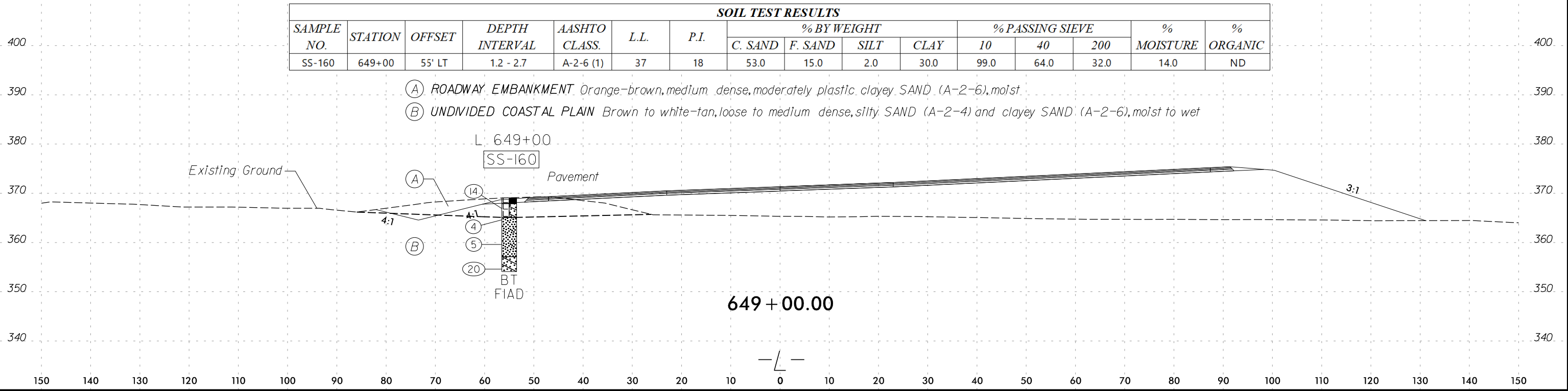


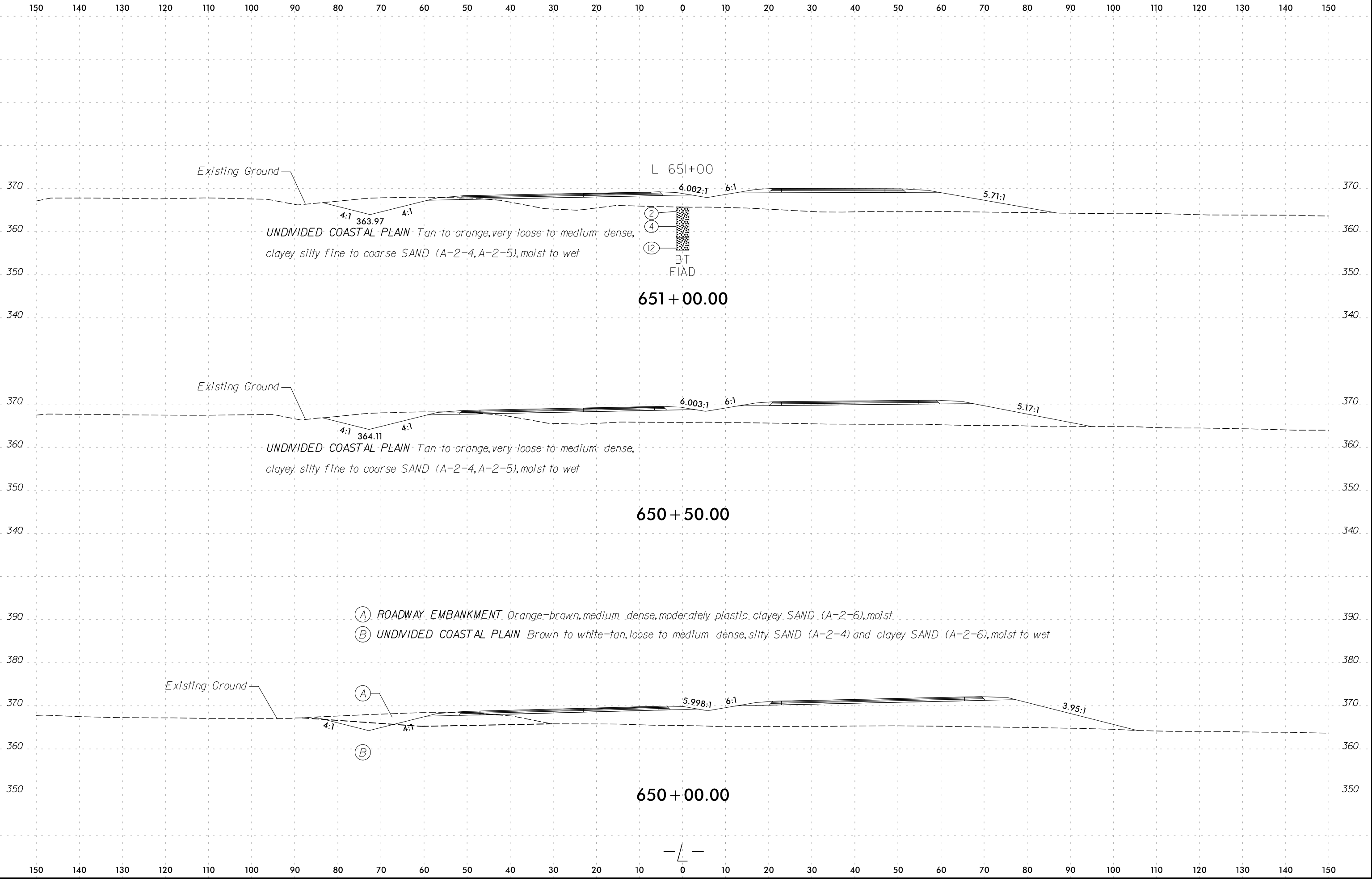
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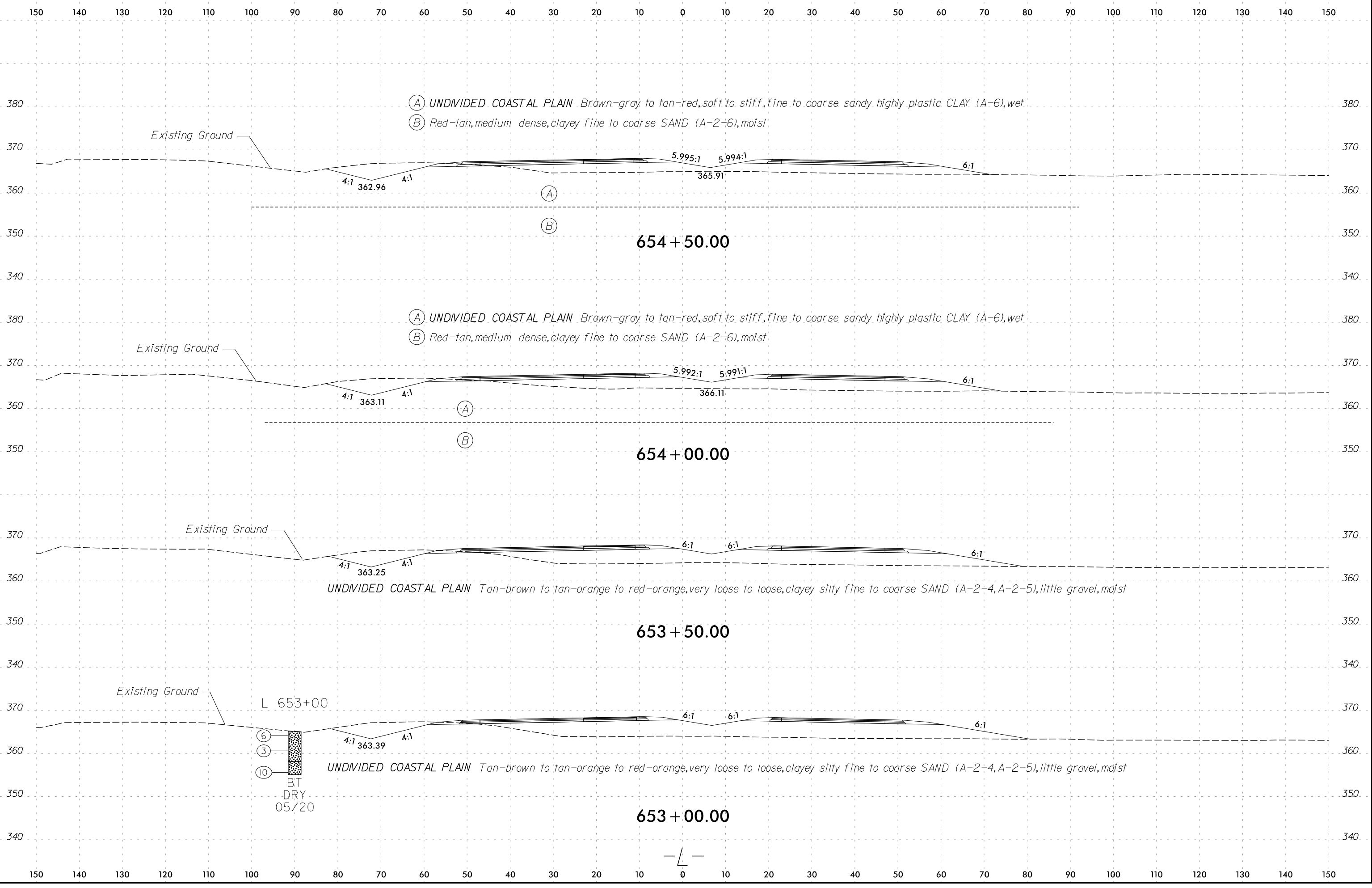


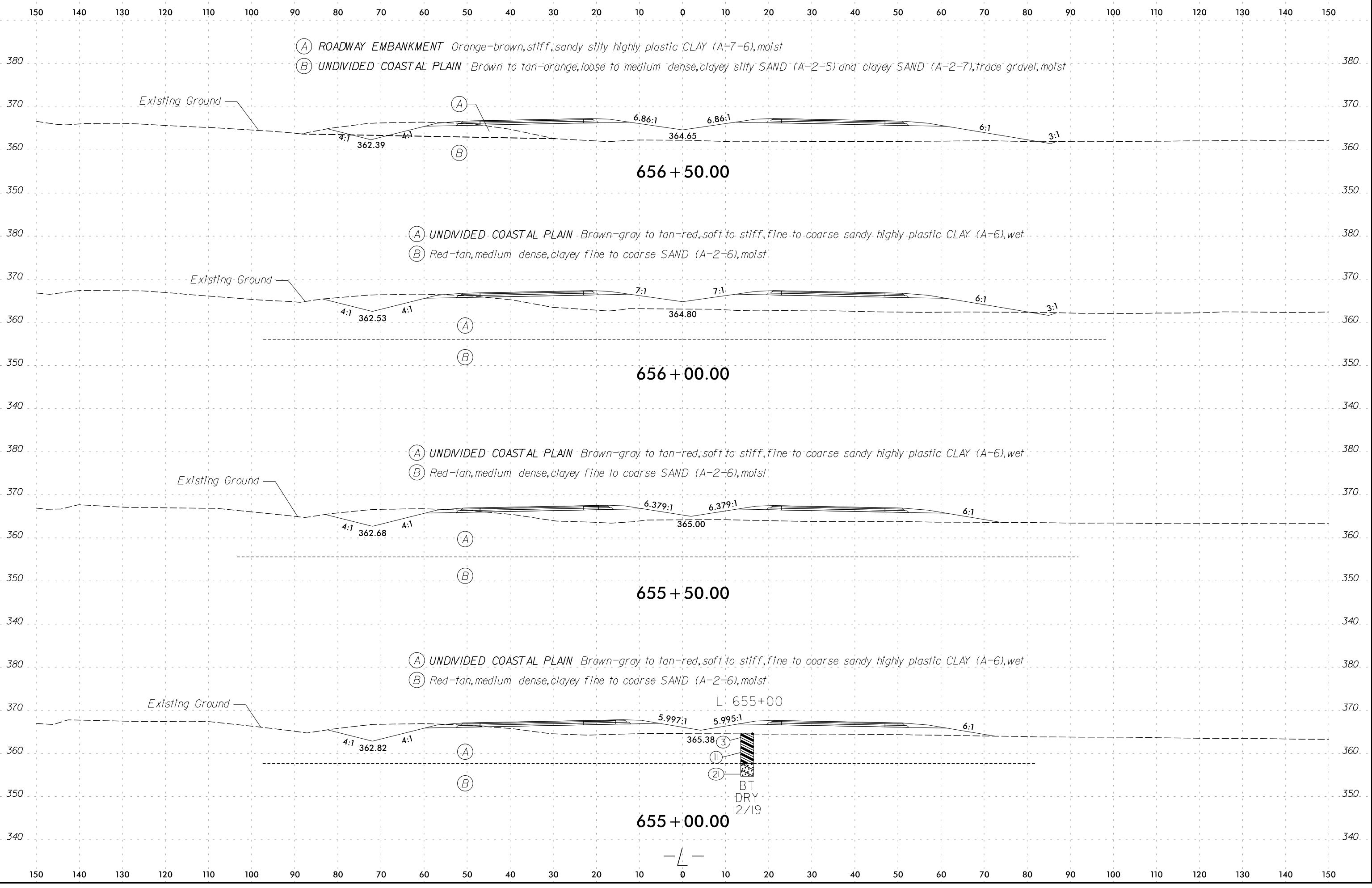


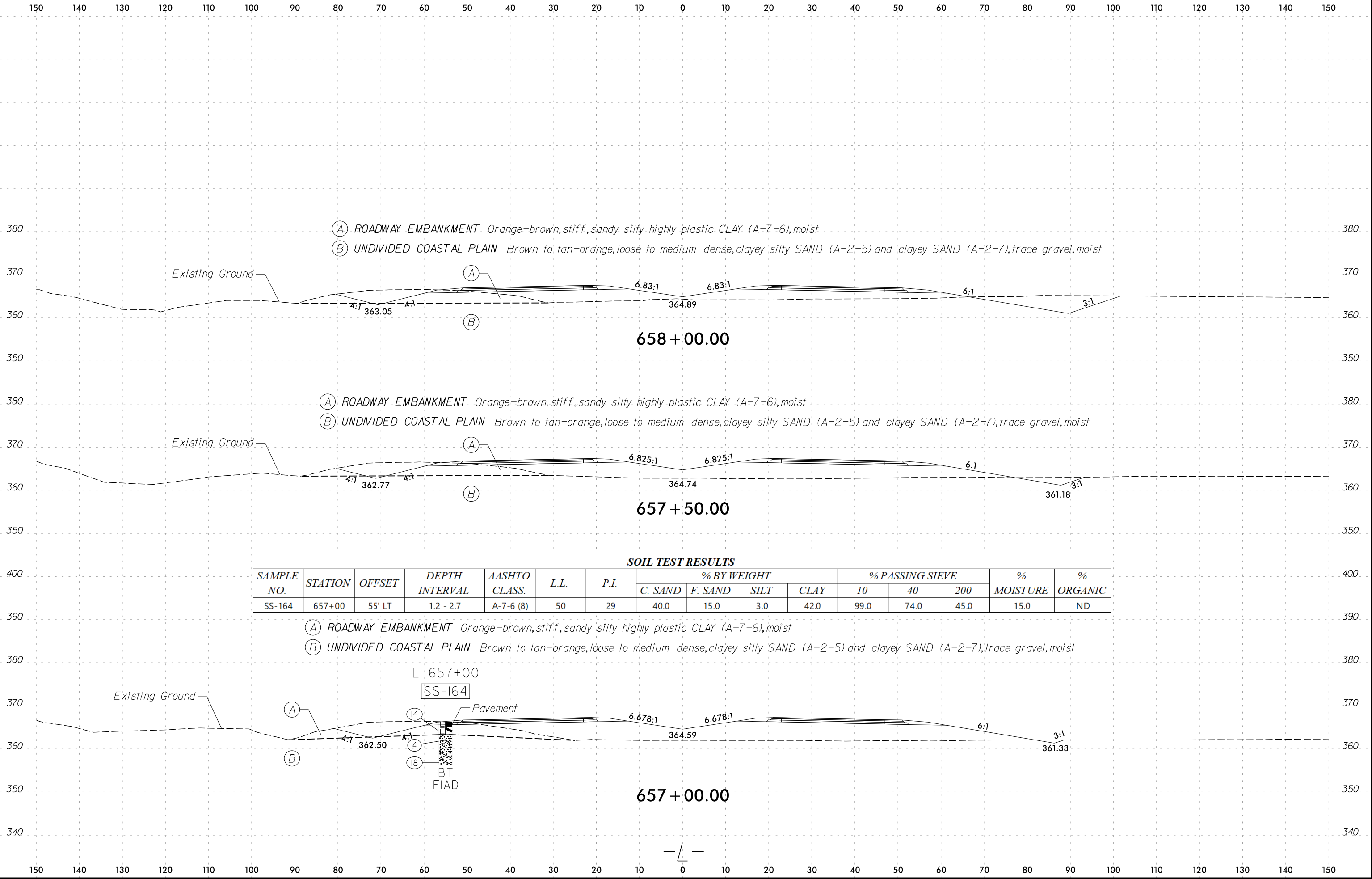
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-160	649+00	55' LT	1.2 - 2.7	A-2-6 (1)	37	18	53.0	15.0	2.0	30.0	99.0	64.0	32.0	14.0	ND







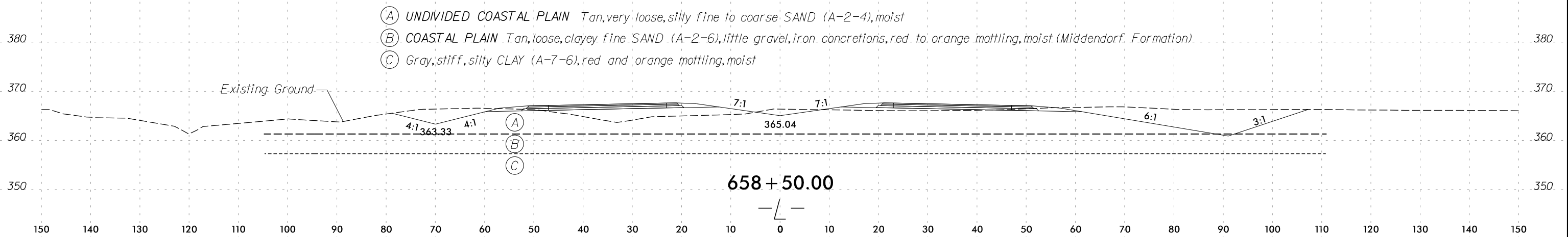
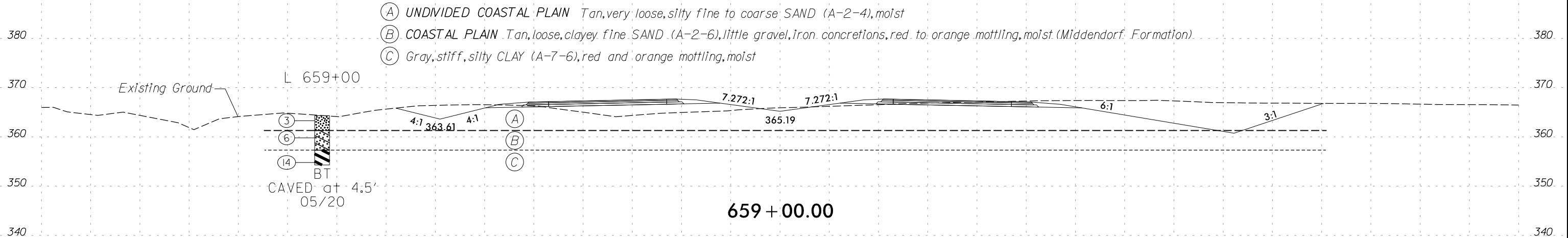
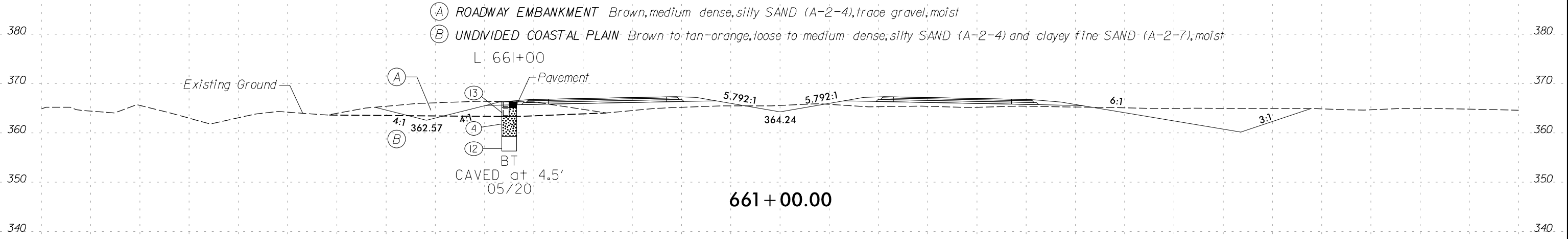




SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-164	657+00	55' LT	1.2 - 2.7	A-7-6 (8)	50	29	40.0	15.0	3.0	42.0	99.0	74.0	45.0	15.0	ND

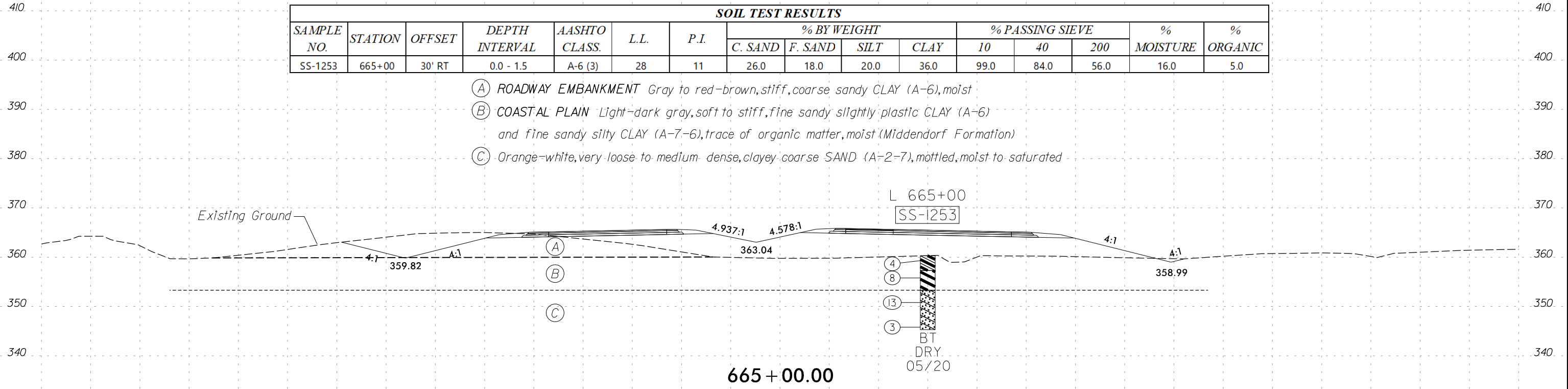
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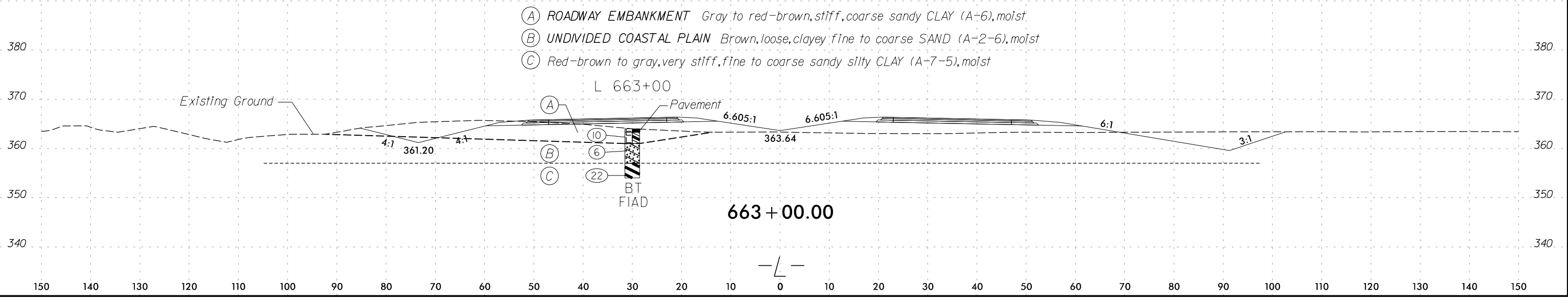
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SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1253	665+00	30' RT	0.0 - 1.5	A-6 (3)	28	11	26.0	18.0	20.0	36.0	99.0	84.0	56.0	16.0	5.0

- (A) ROADWAY EMBANKMENT Gray to red-brown, stiff, coarse sandy CLAY (A-6), moist
- (B) COASTAL PLAIN Light-dark gray, soft to stiff, fine sandy slightly plastic CLAY (A-6) and fine sandy silty CLAY (A-7-6), trace of organic matter, moist (Middendorf Formation)
- (C) Orange-white, very loose to medium dense, clayey coarse SAND (A-2-7), mottled, moist to saturated



- (A) ROADWAY EMBANKMENT Gray to red-brown, stiff, coarse sandy CLAY (A-6), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, loose, clayey fine to coarse SAND (A-2-6), moist
- (C) Red-brown to gray, very stiff, fine to coarse sandy silty CLAY (A-7-5), moist



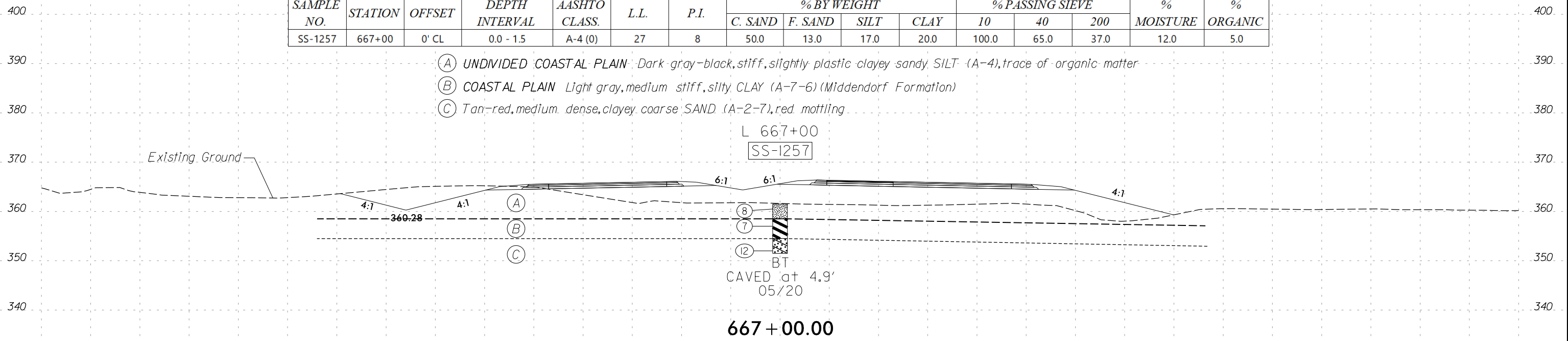
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SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-1257	667+00	0' CL	0.0 - 1.5	A-4 (0)	27	8		

- (A) UNDIVIDED COASTAL PLAIN Dark gray-black, stiff, slightly plastic clayey sandy SILT (A-4), trace of organic matter
- (B) COASTAL PLAIN Light gray, medium stiff, silty CLAY (A-7-6) (Middendorf Formation)
- (C) Tan-red, medium dense, clayey coarse SAND (A-2-7), red mottling

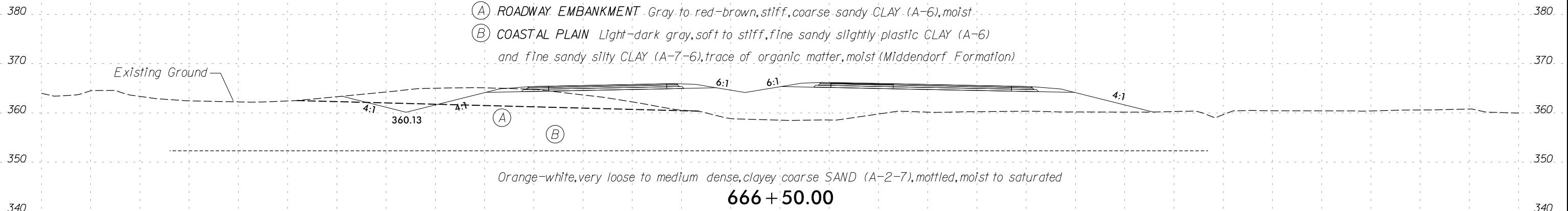
L 667+00

SS-1257



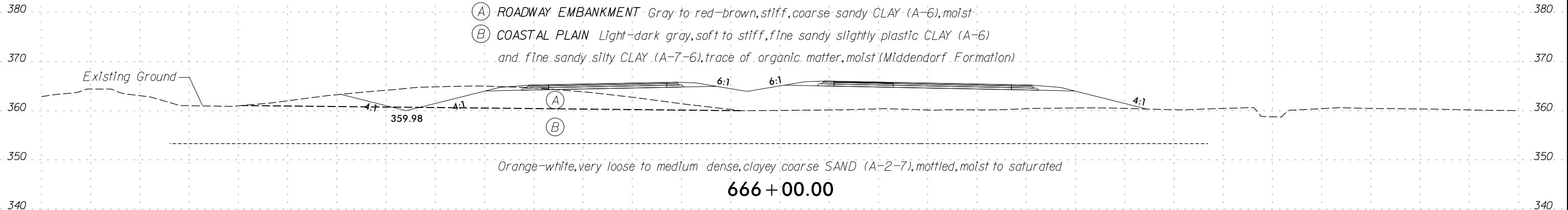
667 + 00.00

- (A) ROADWAY EMBANKMENT Gray to red-brown, stiff, coarse sandy CLAY (A-6), moist
- (B) COASTAL PLAIN Light-dark gray, soft to stiff, fine sandy slightly plastic CLAY (A-6) and fine sandy silty CLAY (A-7-6), trace of organic matter, moist (Middendorf Formation)



666 + 50.00

- (A) ROADWAY EMBANKMENT Gray to red-brown, stiff, coarse sandy CLAY (A-6), moist
- (B) COASTAL PLAIN Light-dark gray, soft to stiff, fine sandy slightly plastic CLAY (A-6) and fine sandy silty CLAY (A-7-6), trace of organic matter, moist (Middendorf Formation)



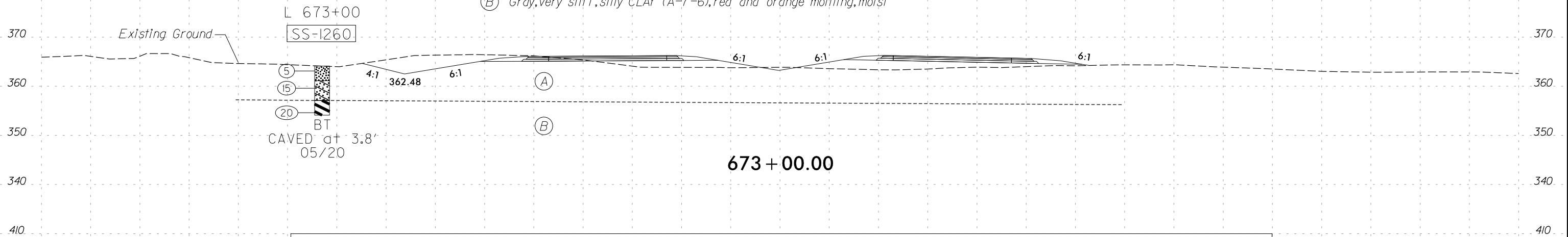
666 + 00.00



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

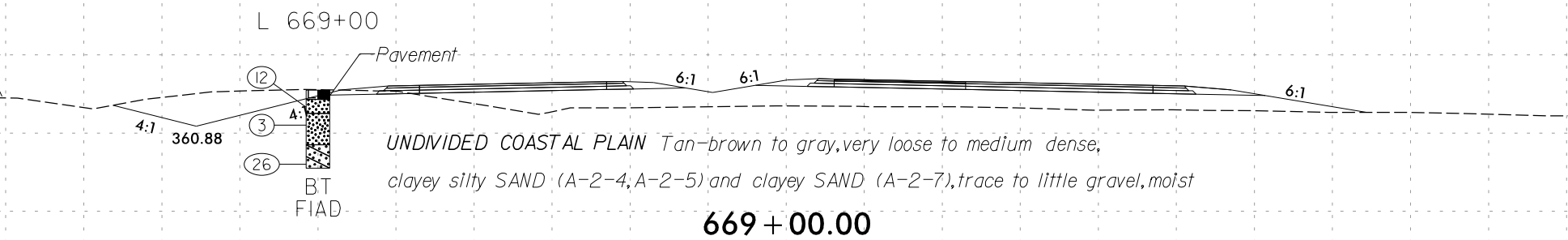
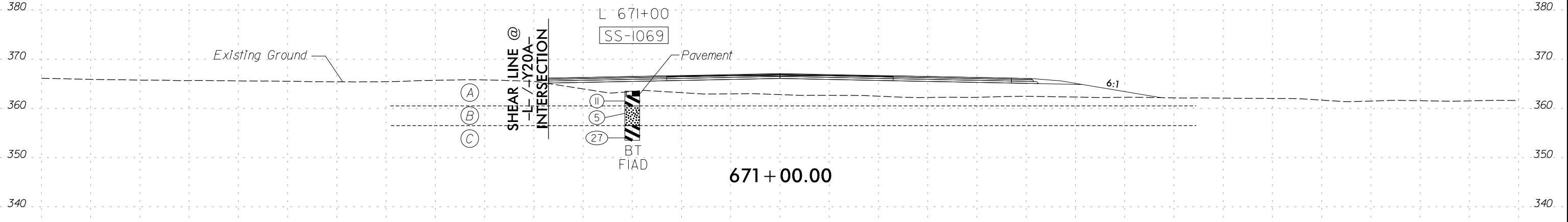
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-1260	673+00	93' LT	0.0 - 1.5	A-2-4	18	4		

- (A) COASTAL PLAIN Brown to red-orange, loose to medium dense, clayey silty SAND (A-2-4) and clayey coarse SAND (A-2-7), mottled, trace of organic matter, moist (Middendorf Formation)
- (B) Gray, very stiff, silty CLAY (A-7-6), red and orange mottling, moist

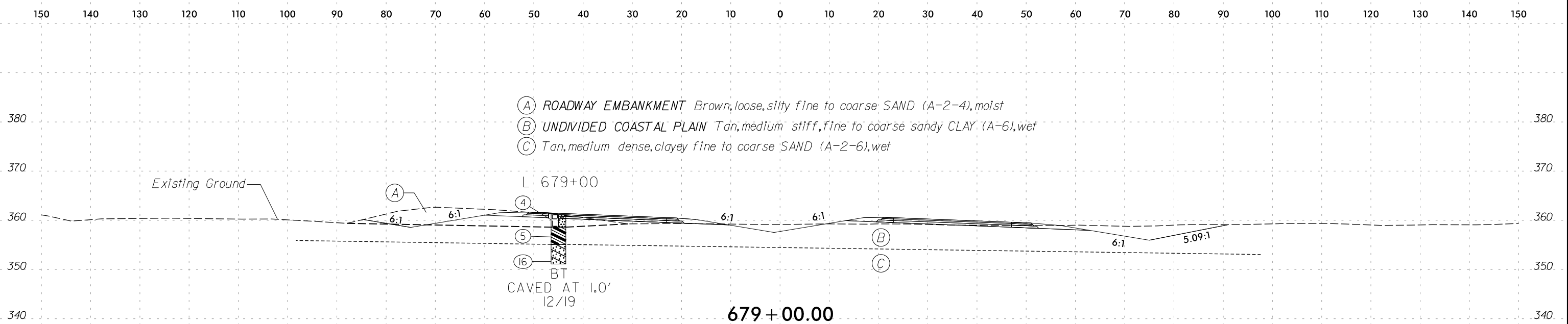


SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-1069	671+00	30' LT	3.5 - 5.0	A-2-4	19	5		

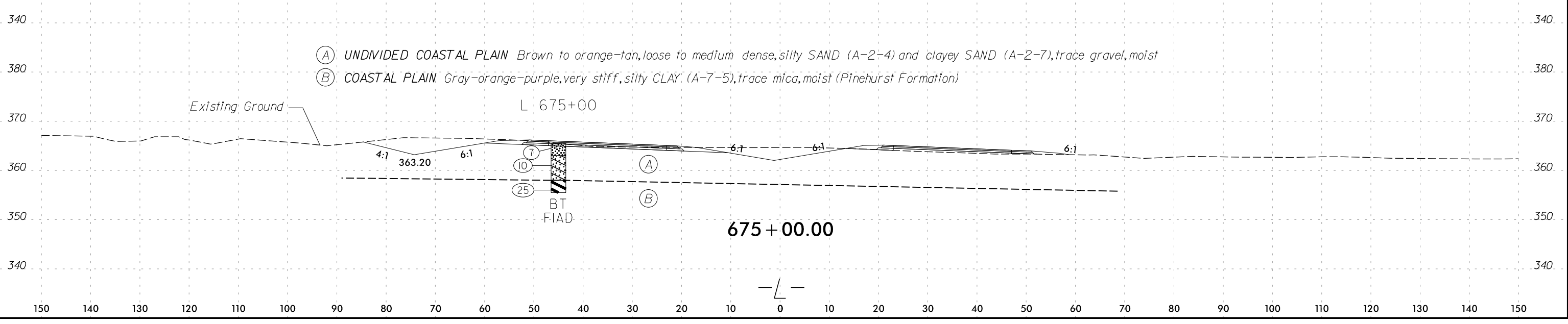
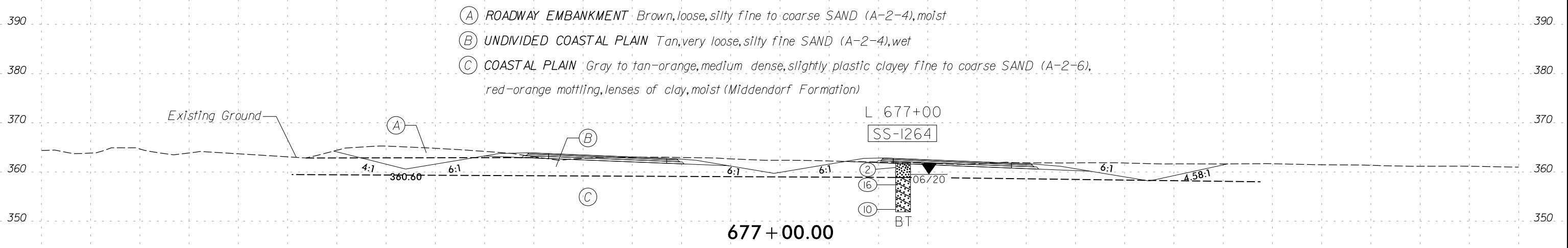
- (A) UNDIVIDED COASTAL PLAIN Gray, stiff, fine to coarse sandy silty CLAY (A-7-5), moist
- (B) Gray, loose, clayey silty fine to coarse SAND (A-2-4), moist
- (C) Red-brown, very stiff, coarse sandy silty CLAY (A-7-5), moist

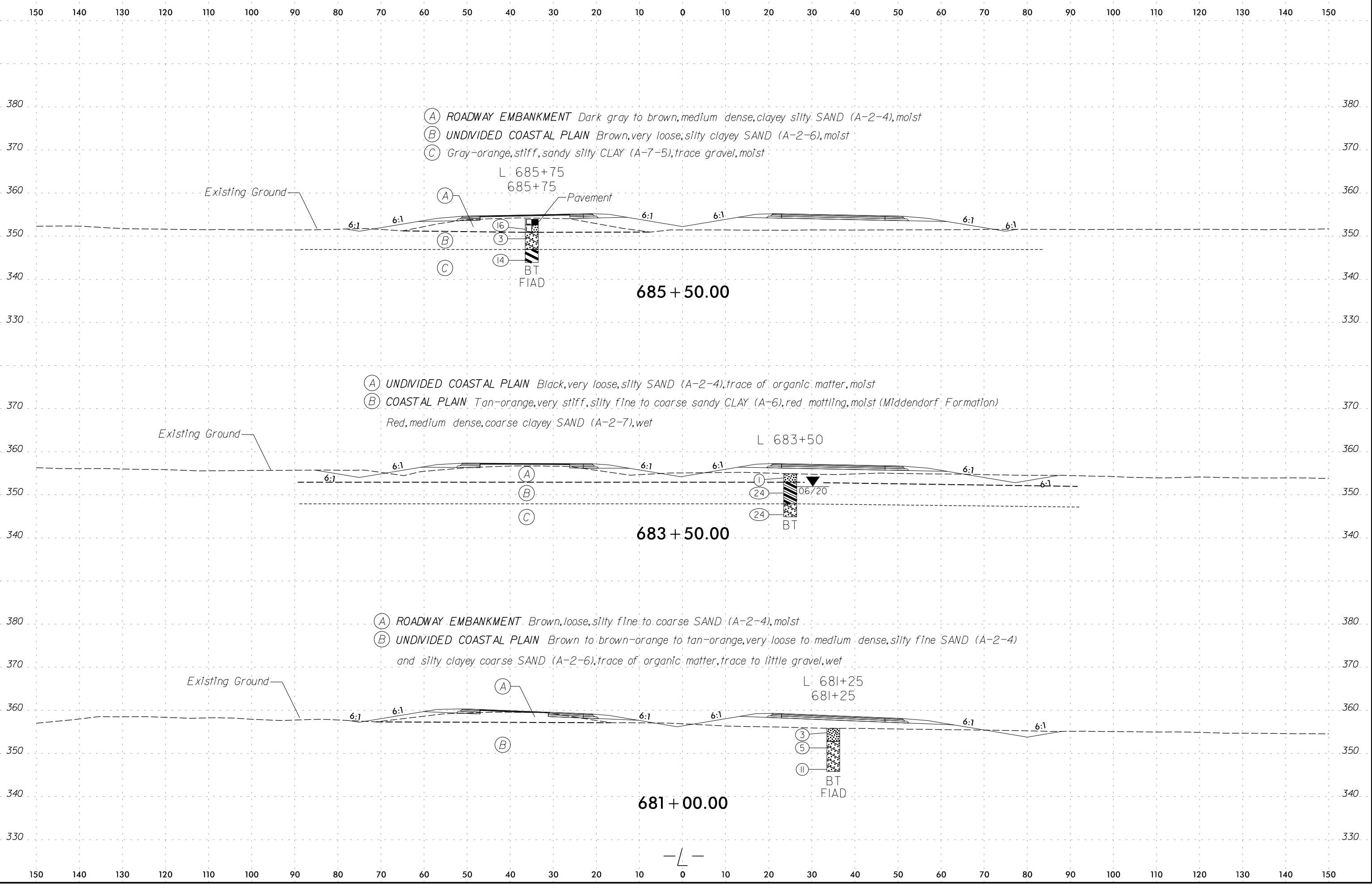


UNDIVIDED COASTAL PLAIN Tan-brown to gray, very loose to medium dense, clayey silty SAND (A-2-4, A-2-5) and clayey SAND (A-2-7), trace to little gravel, moist



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1264	677+00	25' RT	3.5 - 5.0	A-2-6(1)	34	15	46.9	22.4	4.5	26.1	99.8	68.8	30.6	ND	ND





- (A) ROADWAY EMBANKMENT Dark gray to brown, medium dense, clayey silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, very loose, silty clayey SAND (A-2-6), moist
- (C) Gray-orange, stiff, sandy silty CLAY (A-7-5), trace gravel, moist

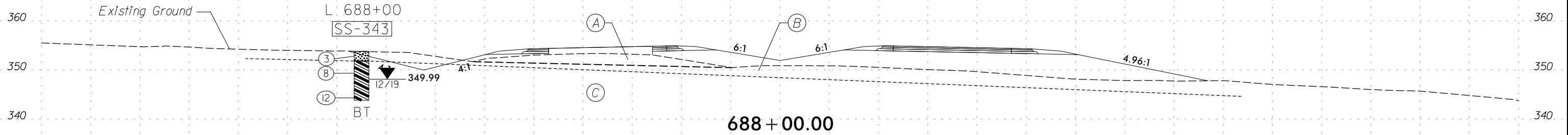
- (A) UNDIVIDED COASTAL PLAIN Black, very loose, silty SAND (A-2-4), trace of organic matter, moist
- (B) COASTAL PLAIN Tan-orange, very stiff, silty fine to coarse sandy CLAY (A-6), red mottling, moist (Middendorf Formation)
- Red, medium dense, coarse clayey SAND (A-2-7), wet

- (A) ROADWAY EMBANKMENT Brown, loose, silty fine to coarse SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown to brown-orange to tan-orange, very loose to medium dense, silty fine SAND (A-2-4) and silty clayey coarse SAND (A-2-6), trace of organic matter, trace to little gravel, wet

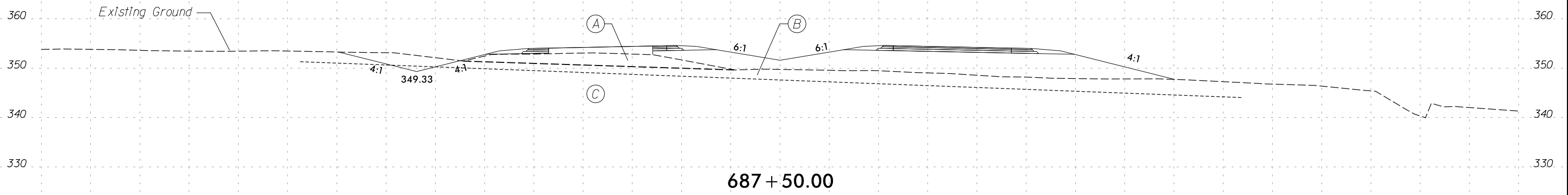
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-343	688+00	85' LT	3.5 - 5.0	A-6(4)	40	19	28.0	29.0	11.0	32.0	100.0	84.0	43.2	19.2	ND

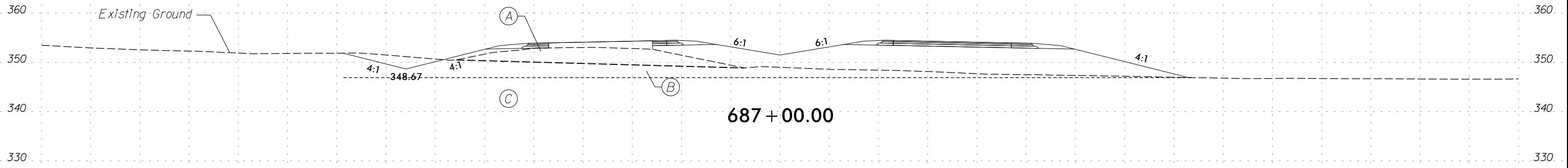
- (A) ROADWAY EMBANKMENT Dark gray to brown, medium dense, clayey silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, very loose, silty fine SAND (A-2-4), moist
- (C) Brown to gray-tan-red, stiff, fine sandy moderately plastic CLAY (A-6), moist



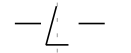
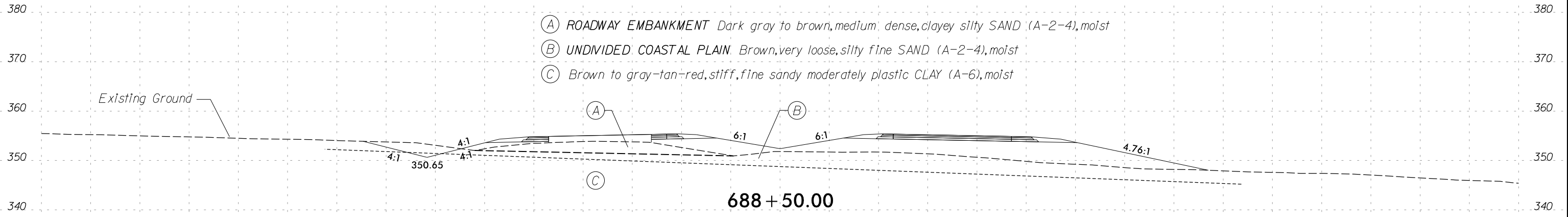
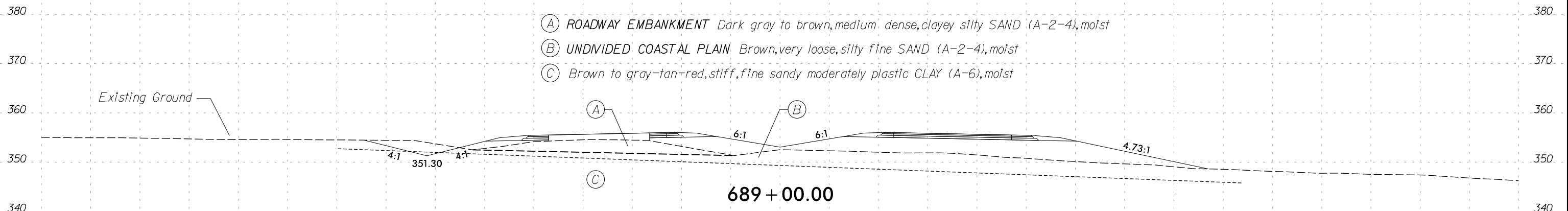
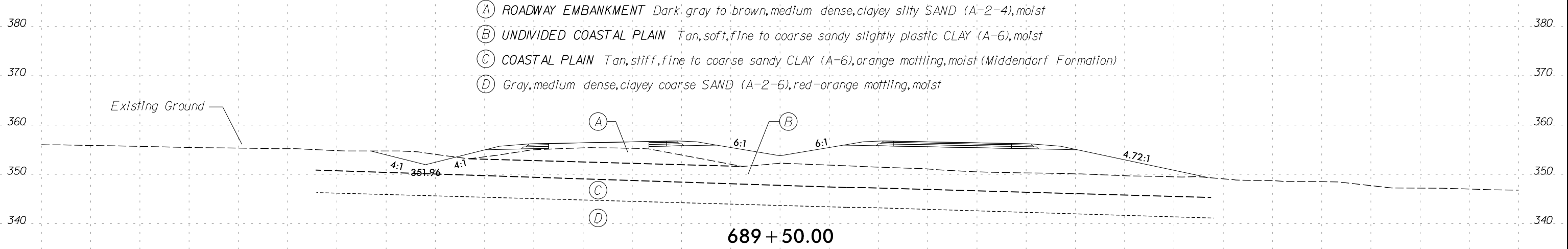
- (A) ROADWAY EMBANKMENT Dark gray to brown, medium dense, clayey silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, very loose, silty fine SAND (A-2-4), moist
- (C) Brown to gray-tan-red, stiff, fine sandy moderately plastic CLAY (A-6), moist



- (A) ROADWAY EMBANKMENT Dark gray to brown, medium dense, clayey silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, very loose, silty clayey SAND (A-2-6), moist
- (C) Gray-orange, stiff, sandy silty CLAY (A-7-5), trace gravel, moist



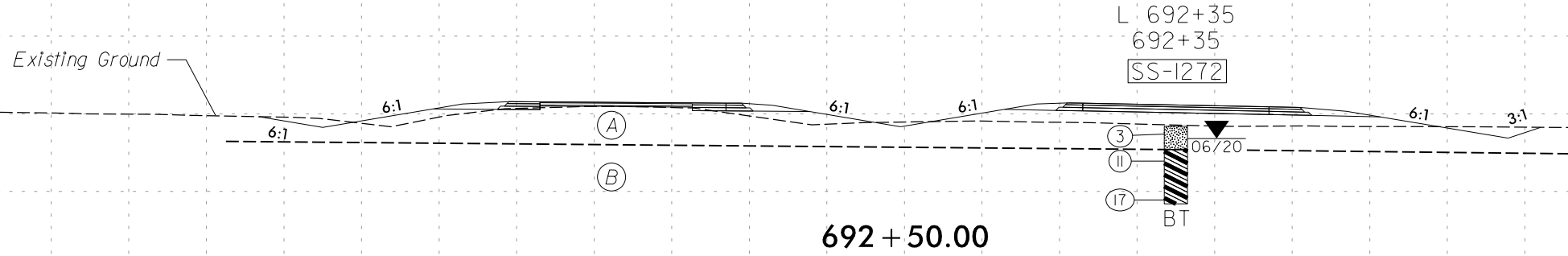
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

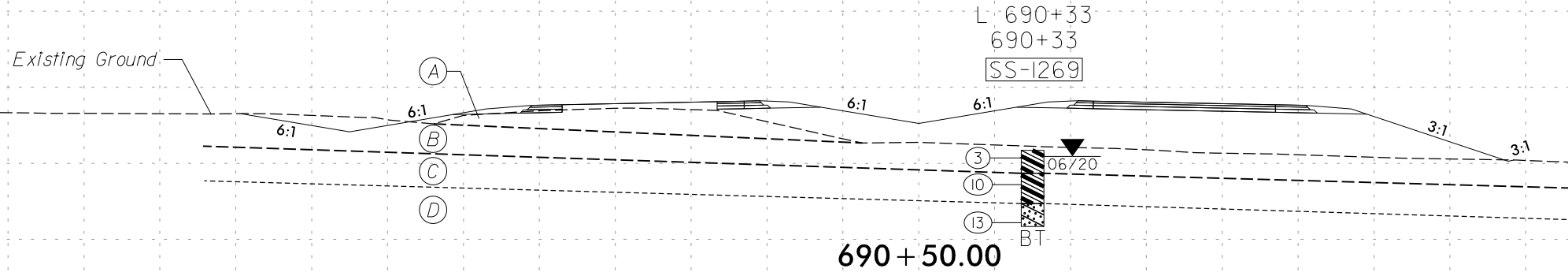
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1272	692+35	35' RT	0.0 - 1.5	A-4(0)	38	NP	35.8	21.8	8.3	34.0	96.7	72.9	42.3	20.4	ND

- (A) UNDIVIDED COASTAL PLAIN Tan, soft, clayey, sandy SILT (A-4), moist
- (B) COASTAL PLAIN Tan-orange, stiff to very stiff, fine sandy CLAY (A-6), red mottling, moist (Middendorf Formation)

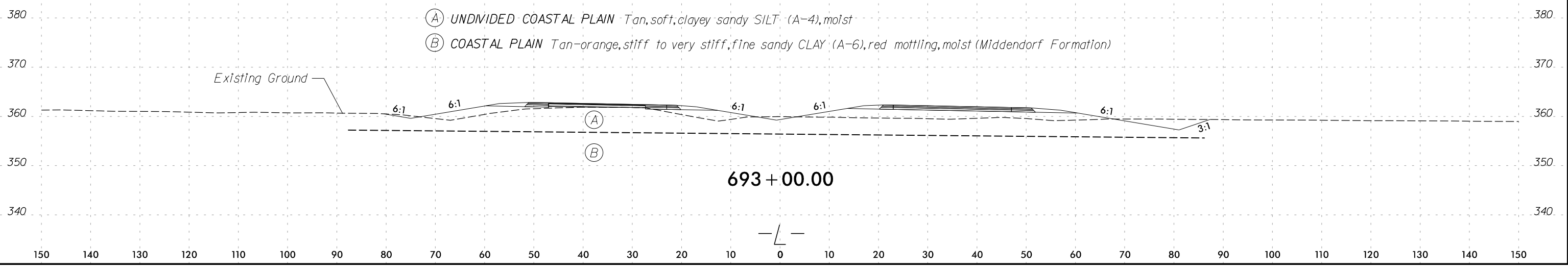
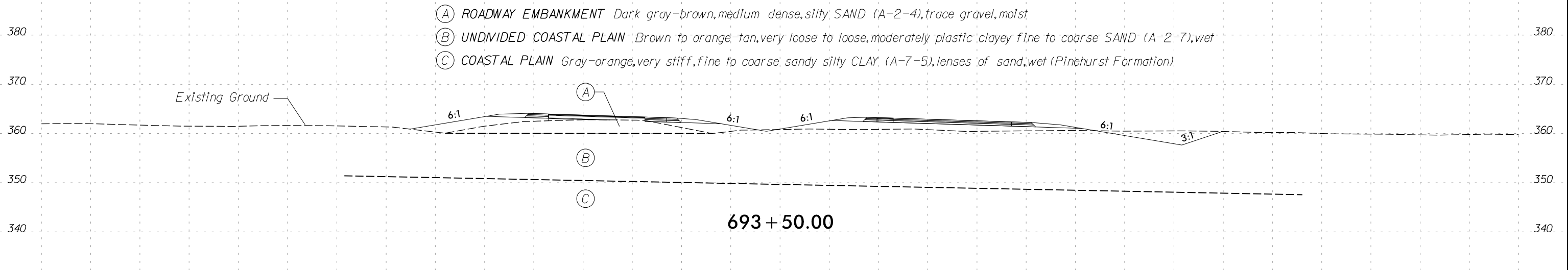
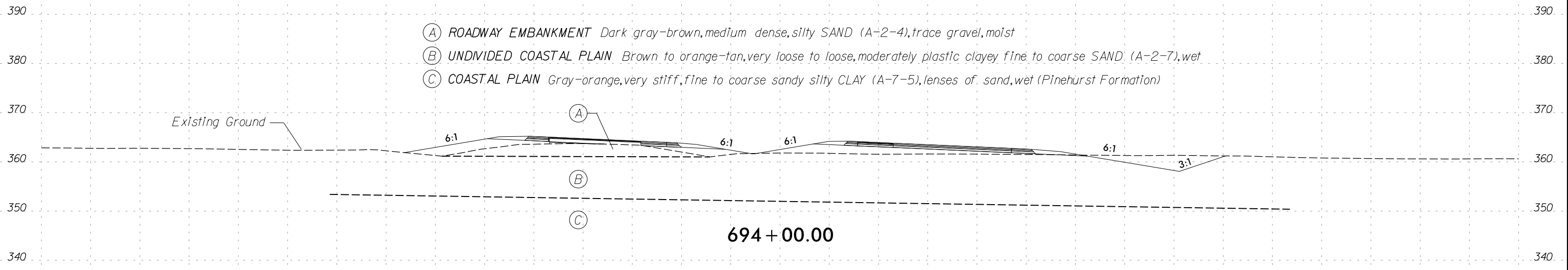


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1269	690+33	15' RT	0.0 - 1.5	A-6(2)	31	15	36.2	28.2	5.4	30.2	98.0	77.0	35.6	0.2	ND

- (A) ROADWAY EMBANKMENT Dark gray to brown, medium dense, clayey silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Tan, soft, fine to coarse sandy slightly plastic CLAY (A-6), moist
- (C) COASTAL PLAIN Tan, stiff, fine to coarse sandy CLAY (A-6), orange mottling, moist (Middendorf Formation)
- (D) Gray, medium dense, clayey coarse SAND (A-2-6), red-orange mottling, moist



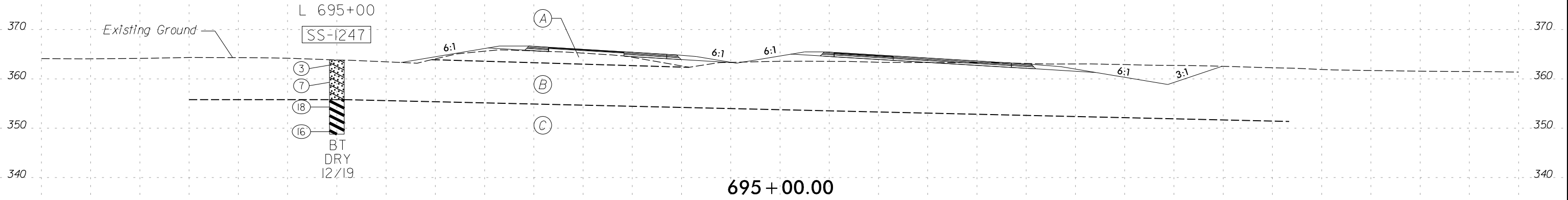
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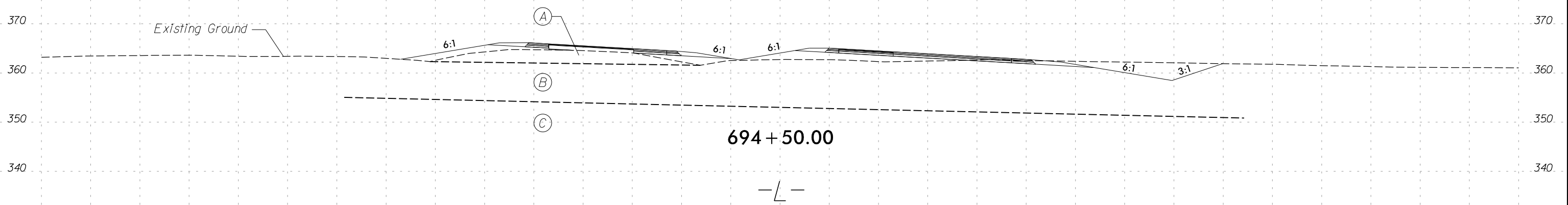
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

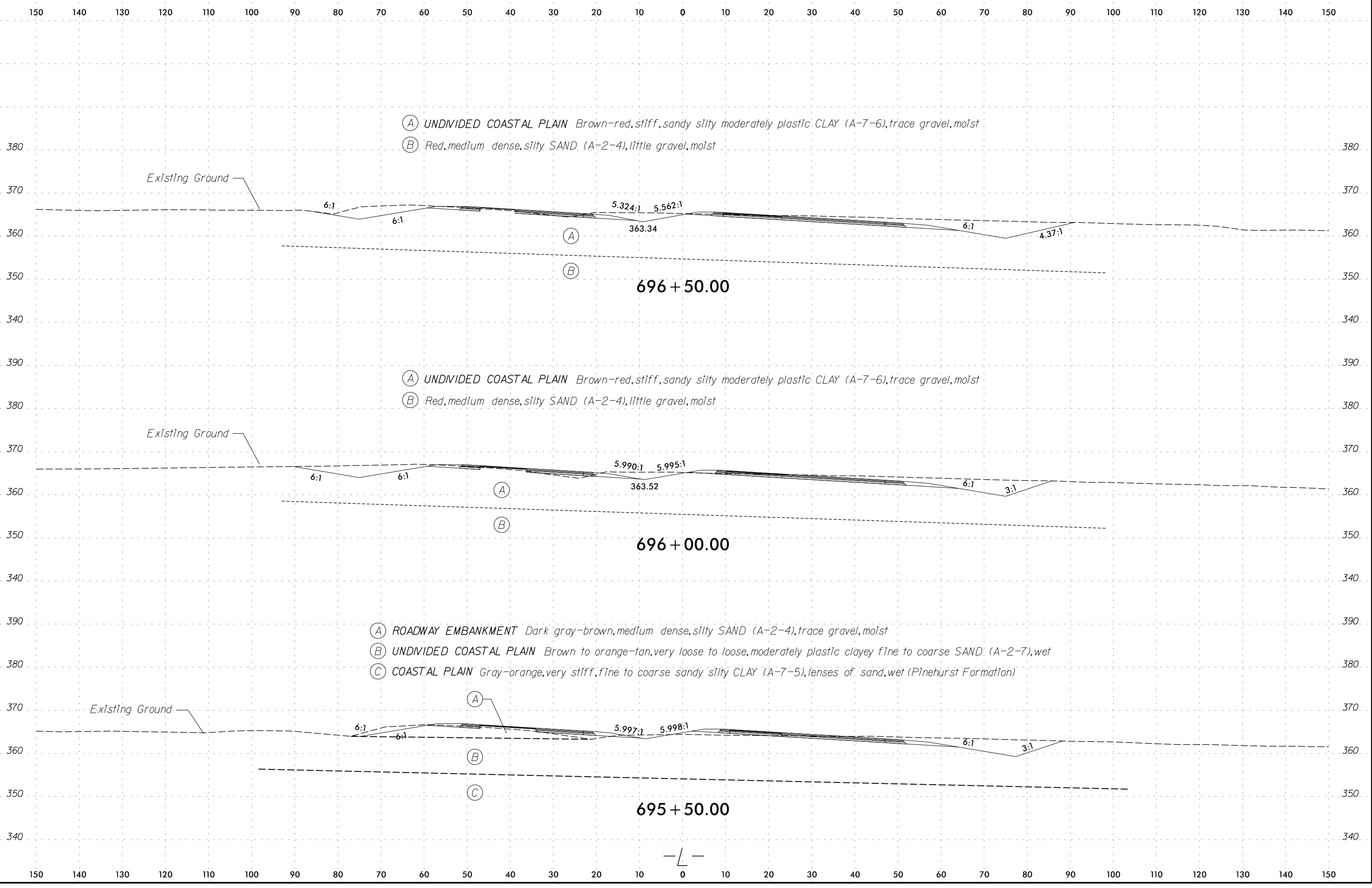
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1247	695+00	90' LT	3.5 - 5.0	A-2-7(3)	46	25	48.0	18.0	6.0	28.0	95.0	62.0	32.4	19.1	ND

- (A) ROADWAY EMBANKMENT Dark gray-brown, medium dense, silty SAND (A-2-4), trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Brown to orange-tan, very loose to loose, moderately plastic clayey fine to coarse SAND (A-2-7), wet
- (C) COASTAL PLAIN Gray-orange, very stiff, fine to coarse sandy silty CLAY (A-7-5), lenses of sand, wet (Pinehurst Formation)



- (A) ROADWAY EMBANKMENT Dark gray-brown, medium dense, silty SAND (A-2-4), trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Brown to orange-tan, very loose to loose, moderately plastic clayey fine to coarse SAND (A-2-7), wet
- (C) COASTAL PLAIN Gray-orange, very stiff, fine to coarse sandy silty CLAY (A-7-5), lenses of sand, wet (Pinehurst Formation)

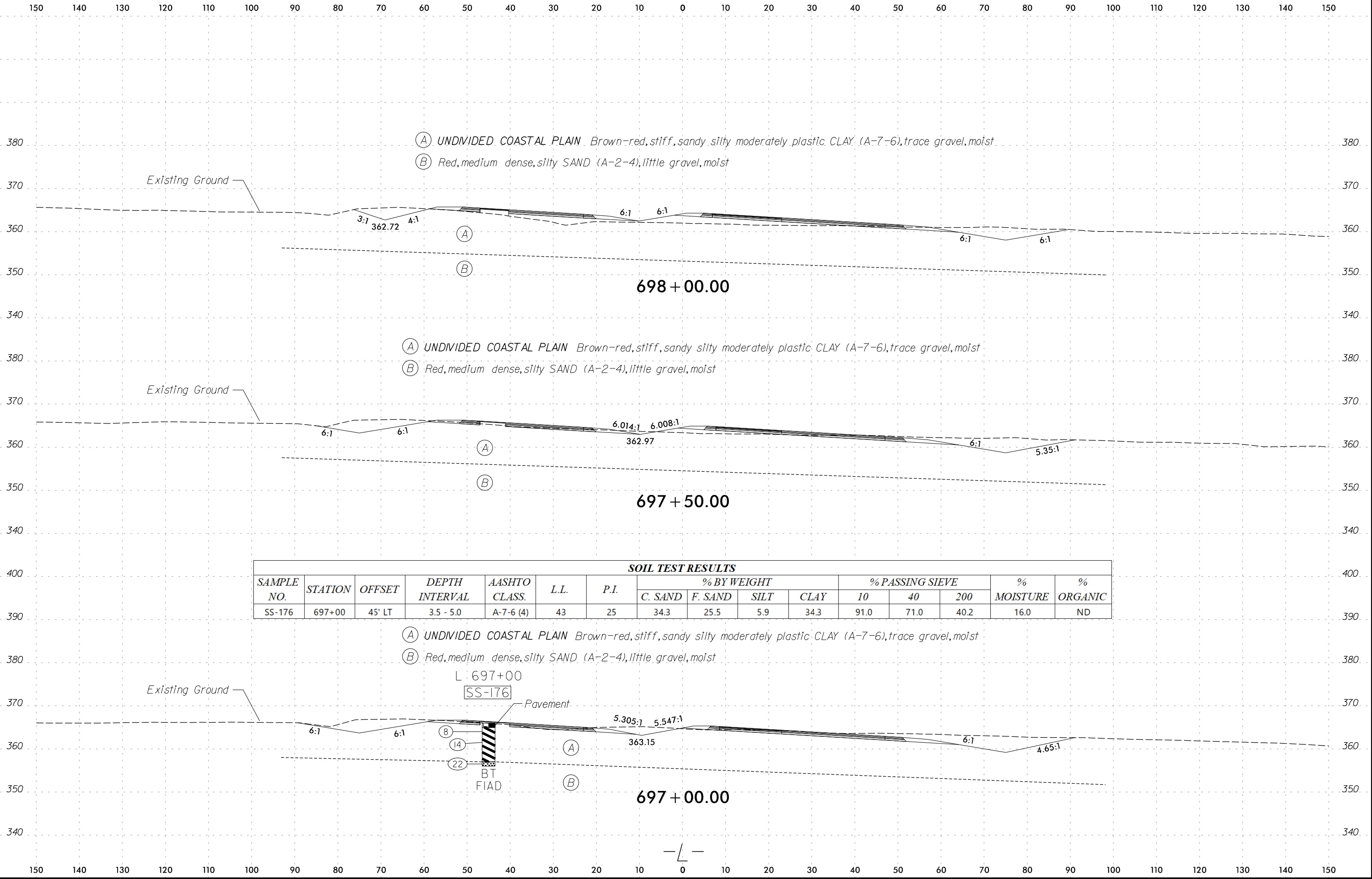




(A) UNDIVIDED COASTAL PLAIN Brown-red, stiff, sandy silty moderately plastic CLAY (A-7-6), trace gravel, moist
 (B) Red, medium dense, silty SAND (A-2-4), little gravel, moist

(A) UNDIVIDED COASTAL PLAIN Brown-red, stiff, sandy silty moderately plastic CLAY (A-7-6), trace gravel, moist
 (B) Red, medium dense, silty SAND (A-2-4), little gravel, moist

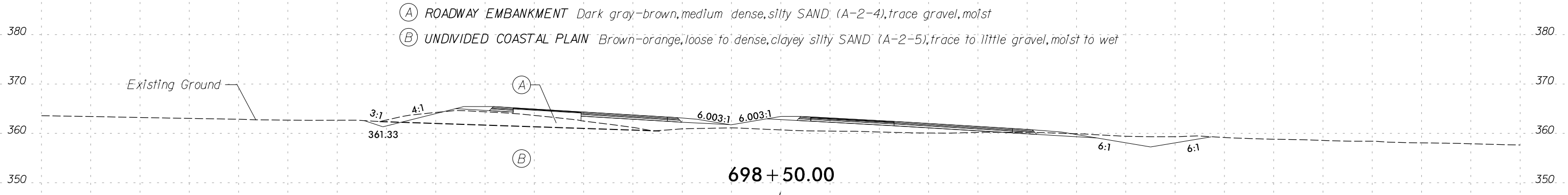
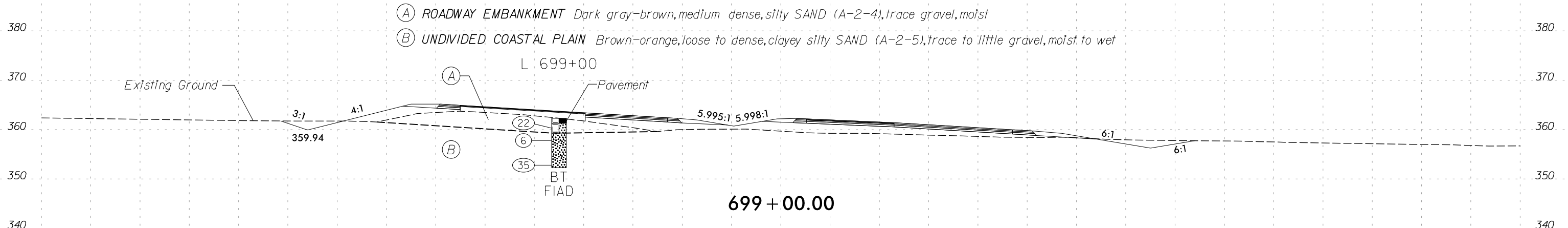
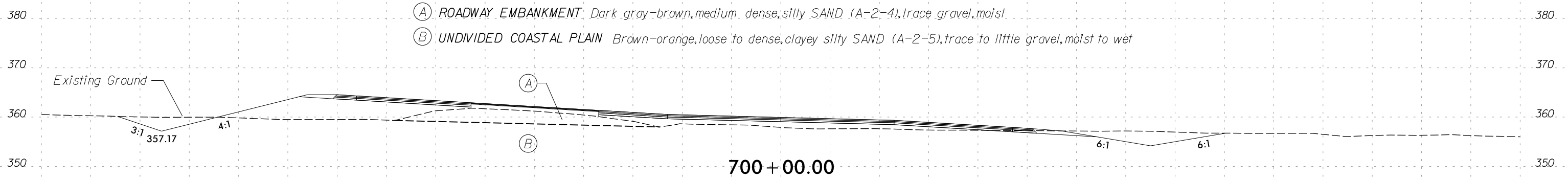
(A) ROADWAY EMBANKMENT Dark gray-brown, medium dense, silty SAND (A-2-4), trace gravel, moist
 (B) UNDIVIDED COASTAL PLAIN Brown to orange-tan, very loose to loose, moderately plastic clayey fine to coarse SAND (A-2-7), wet
 (C) COASTAL PLAIN Gray-orange, very stiff, fine to coarse sandy silty CLAY (A-7-5), lenses of sand, wet (Pinehurst Formation)



SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-176	697+00	45' LT	3.5 - 5.0	A-7-6 (4)	43	25	34.3	25.5	5.9	34.3	91.0	71.0	40.2	16.0	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

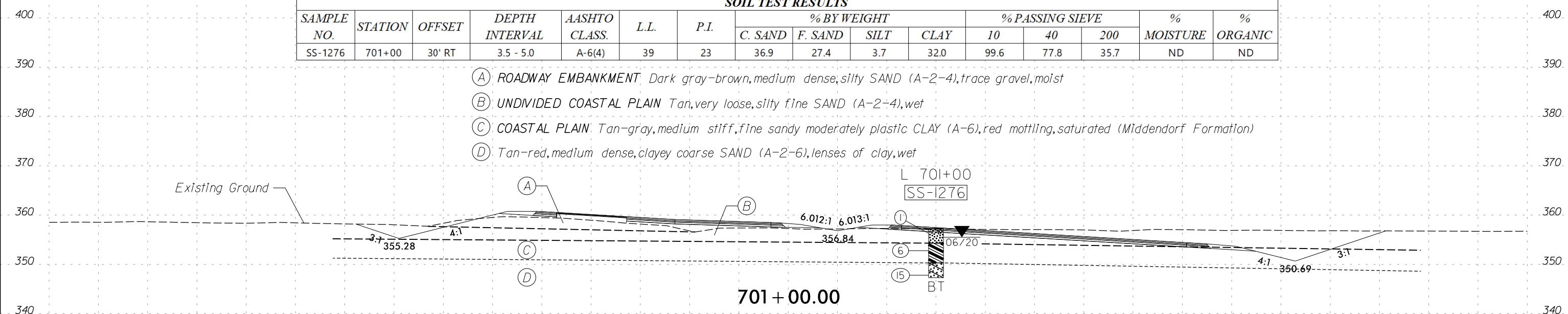


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

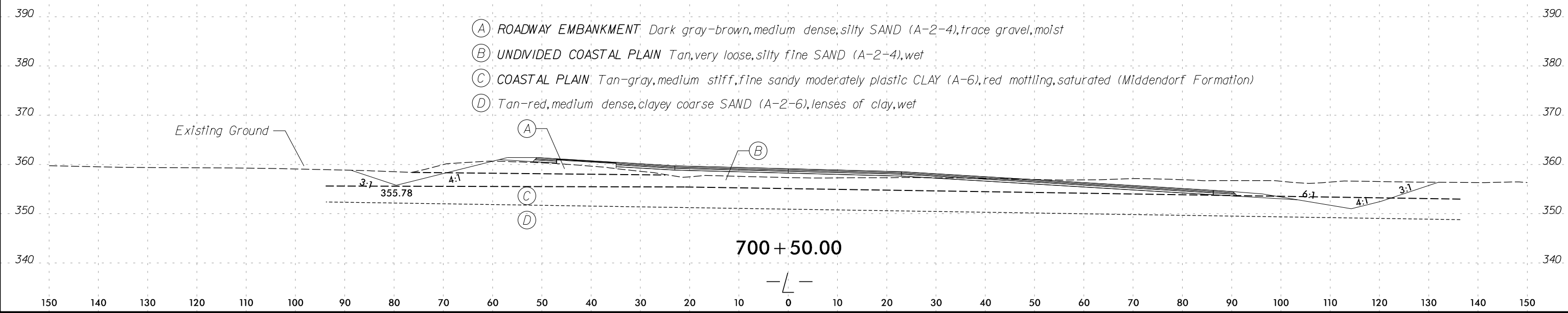
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1276	701+00	30' RT	3.5 - 5.0	A-6(4)	39	23	36.9	27.4	3.7	32.0	99.6	77.8	35.7	ND	ND

- (A) ROADWAY EMBANKMENT Dark gray-brown, medium dense, silty SAND (A-2-4), trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Tan, very loose, silty fine SAND (A-2-4), wet
- (C) COASTAL PLAIN Tan-gray, medium stiff, fine sandy moderately plastic CLAY (A-6), red mottling, saturated (Middendorf Formation)
- (D) Tan-red, medium dense, clayey coarse SAND (A-2-6), lenses of clay, wet

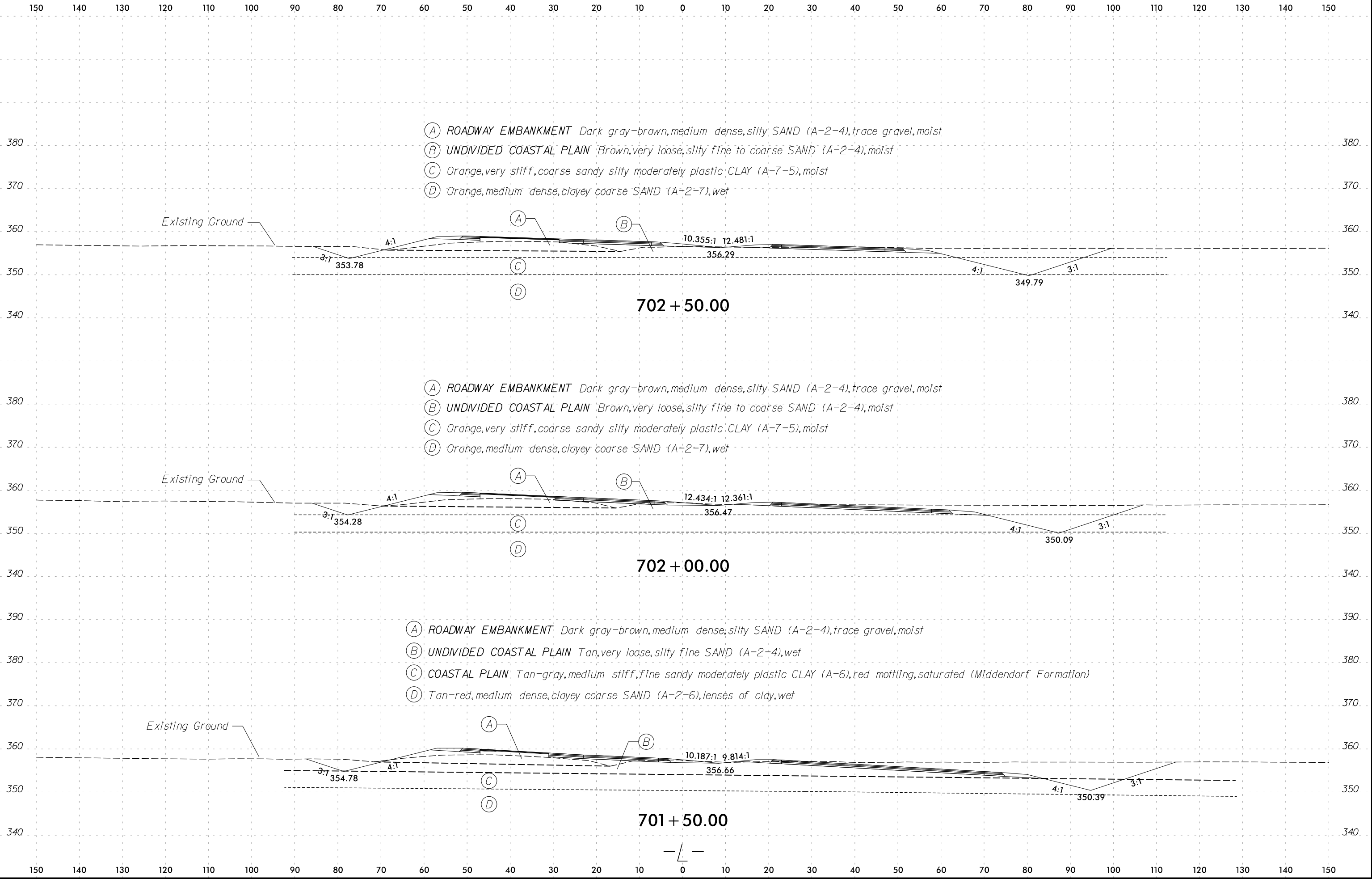


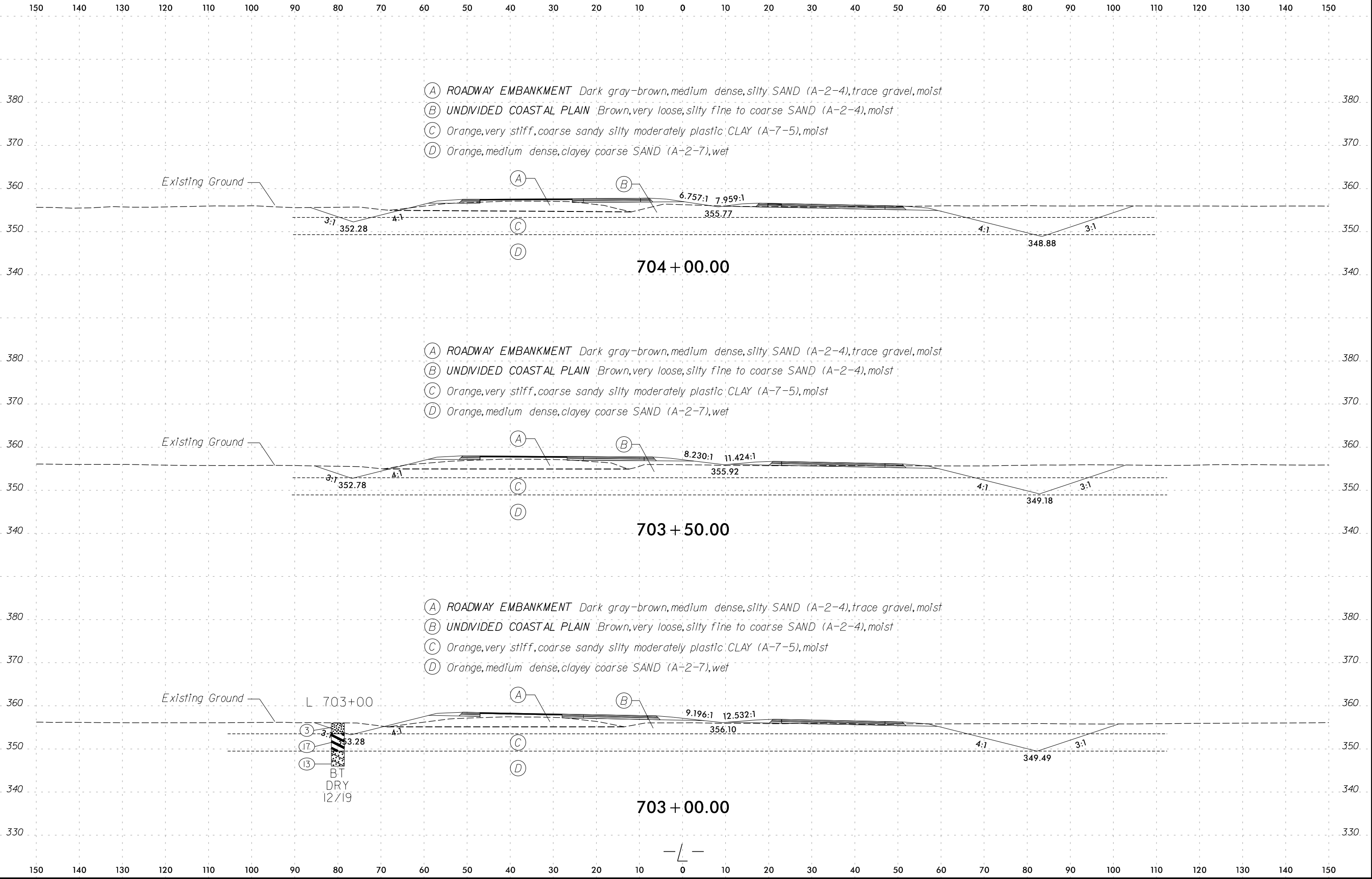
701 + 00.00

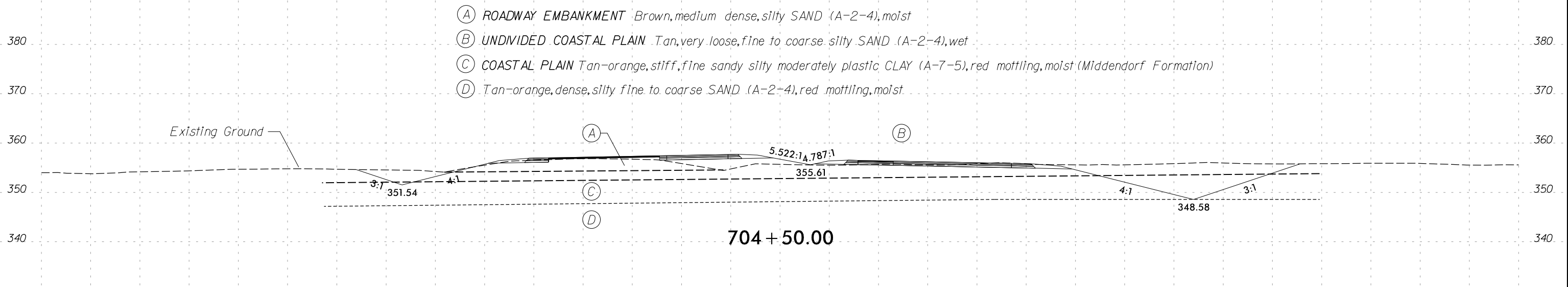
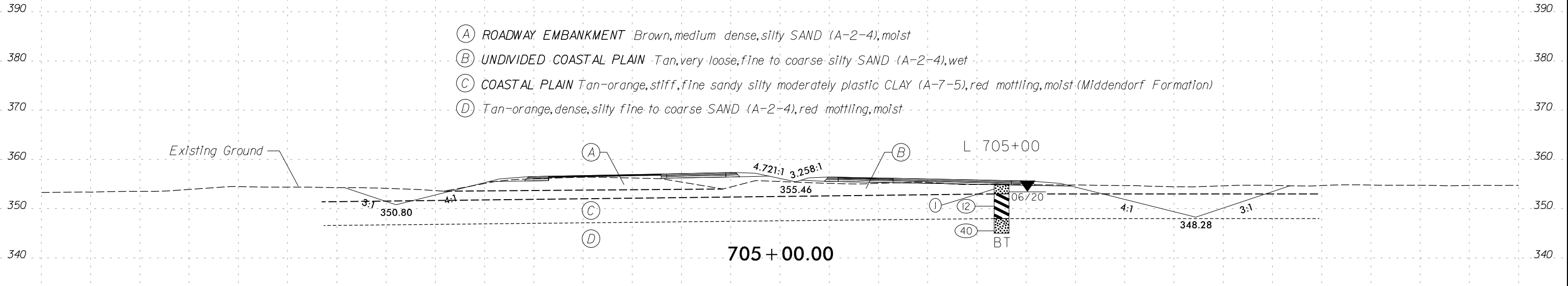
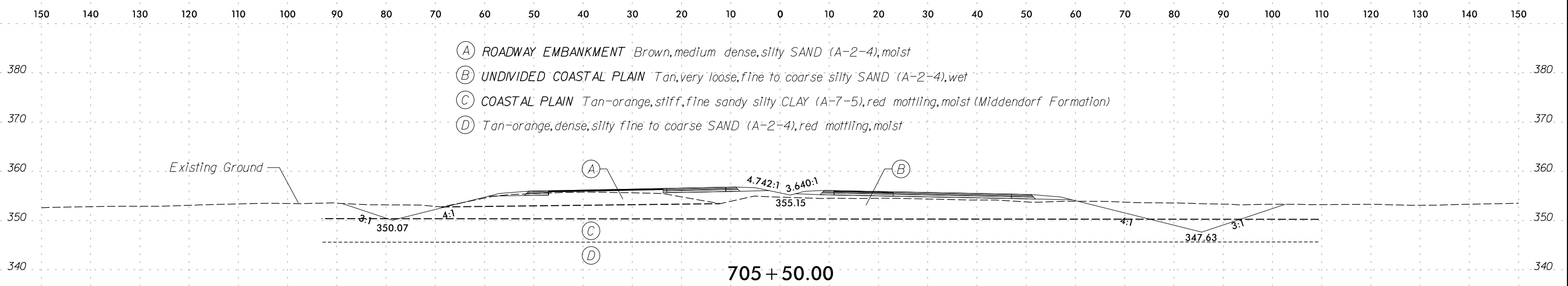
- (A) ROADWAY EMBANKMENT Dark gray-brown, medium dense, silty SAND (A-2-4), trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Tan, very loose, silty fine SAND (A-2-4), wet
- (C) COASTAL PLAIN Tan-gray, medium stiff, fine sandy moderately plastic CLAY (A-6), red mottling, saturated (Middendorf Formation)
- (D) Tan-red, medium dense, clayey coarse SAND (A-2-6), lenses of clay, wet

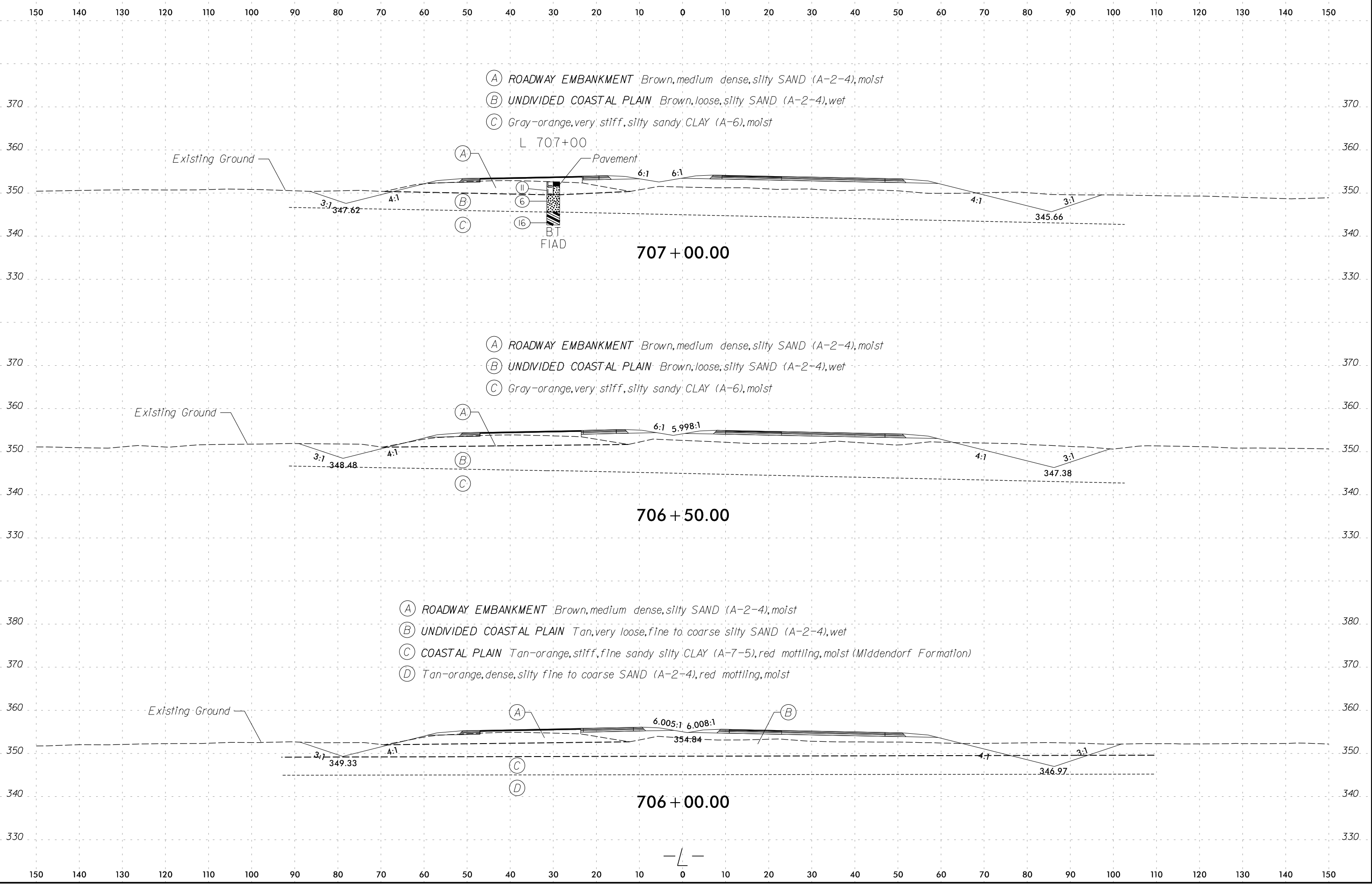


700 + 50.00





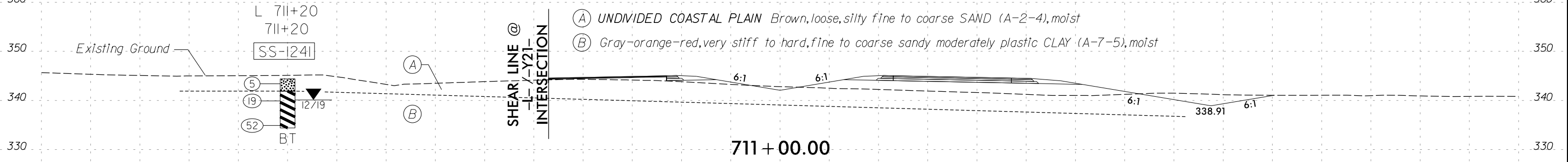




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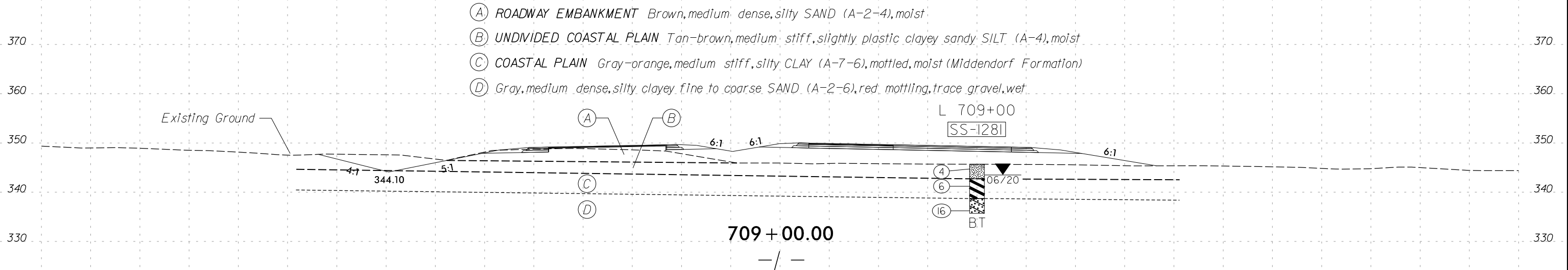
SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1241	711+20	100' LT	3.5 - 5.0	A-7-5(6)	49	18	32.0	18.0	8.0	42.0	94.0	74.0	47.0	23.6	ND



SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1281	709+00	40' RT	0.0 - 1.5	A-4(1)	24	10	29.0	31.7	11.0	28.3	99.7	85.3	39.3	14.0	ND

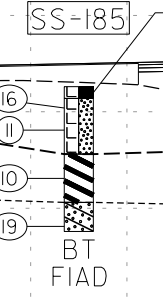


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-185	715+67	35' LT	1.2 - 2.7	A-2-4	15	4	41.0	28.0	9.0	22.0	100.0	74.0	31.0	8.0	ND

- (A) ROADWAY EMBANKMENT Brown-orange, medium dense, silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Orange, stiff, sandy silty CLAY (A-7-5), moist
- (C) Tan-orange, medium dense, clayey SAND (A-2-7), little gravel, moist

L 715+67
715+67

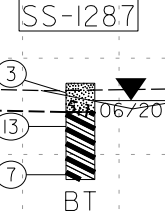


715 + 50.00

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1287	713+30	84' LT	0.0 - 1.5	A-4(0)	35	NP	34.1	22.2	7.6	36.1	95.6	72.9	43.7	17.4	ND

- (A) ROADWAY EMBANKMENT Brown-orange, medium dense, silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Tan-brown, soft, clayey sandy SILT (A-4), moist
- (C) COASTAL PLAIN Tan-orange, medium stiff to stiff, silty fine to coarse sandy CLAY (A-6), red mottling, moist (Middendorf Formation)

L 713+33
713+30

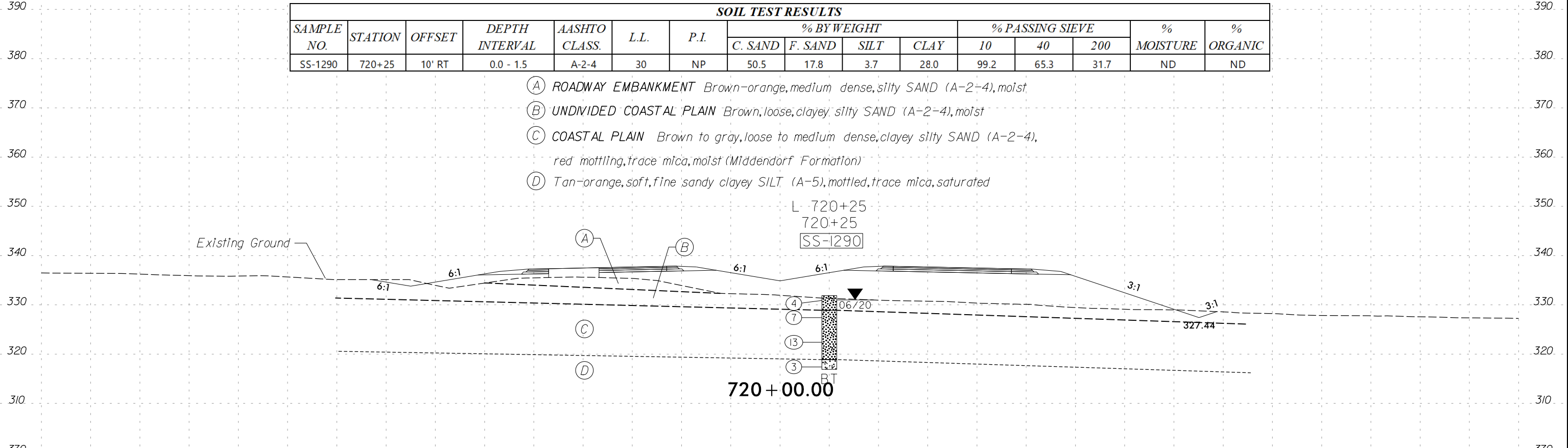


713 + 50.00

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

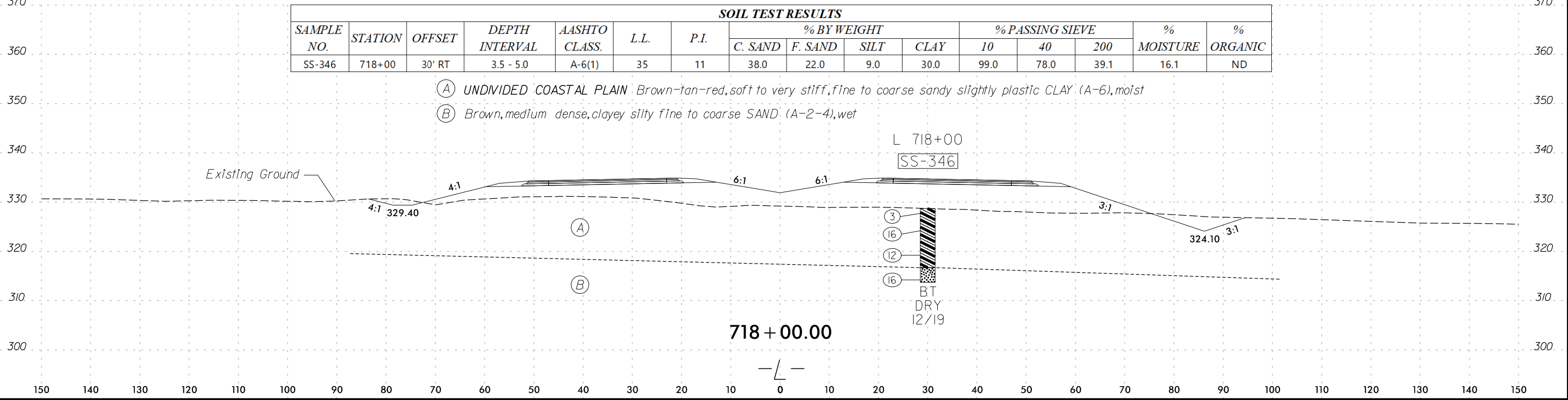
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1290	720+25	10' RT	0.0 - 1.5	A-2-4	30	NP	50.5	17.8	3.7	28.0	99.2	65.3	31.7	ND	ND

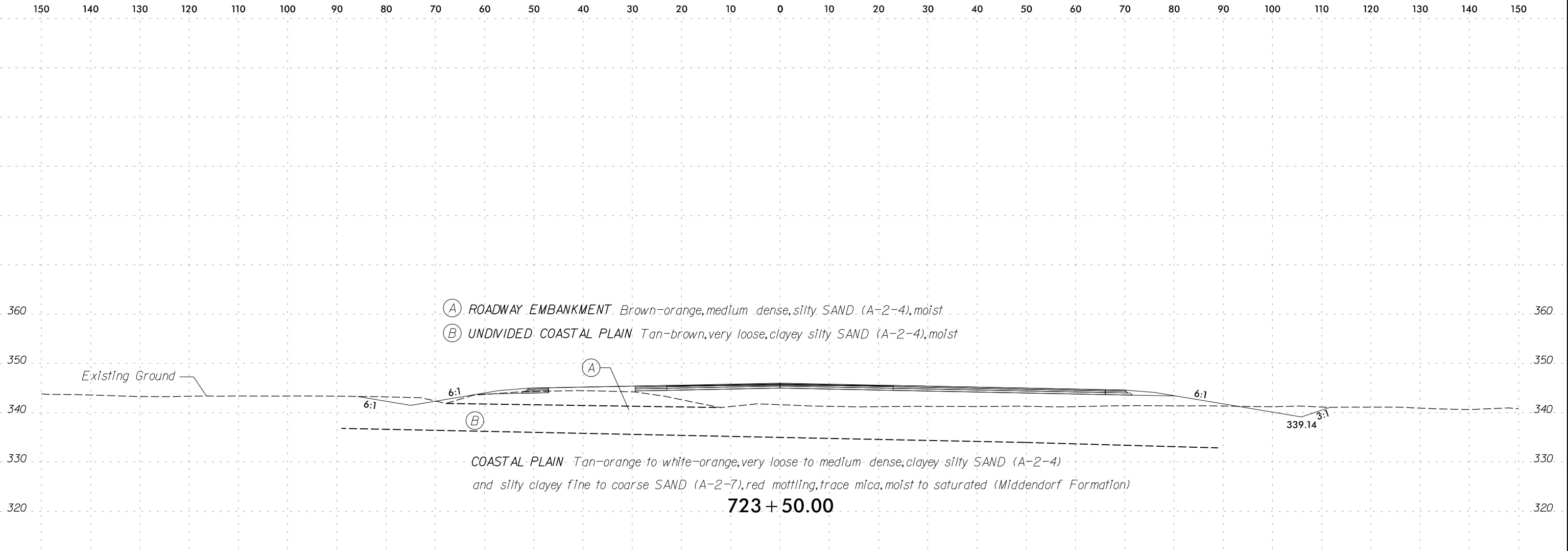
- (A) ROADWAY EMBANKMENT Brown-orange, medium dense, silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, loose, clayey, silty SAND (A-2-4), moist
- (C) COASTAL PLAIN Brown to gray, loose to medium dense, clayey silty SAND (A-2-4), red mottling, trace mica, moist (Middendorf Formation)
- (D) Tan-orange, soft, fine sandy clayey SILT (A-5), mottled, trace mica, saturated



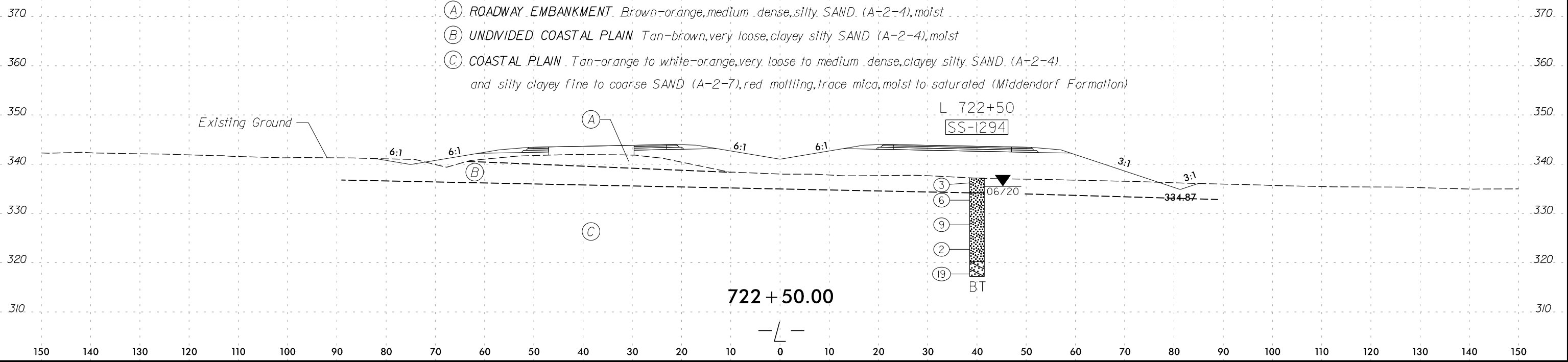
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-346	718+00	30' RT	3.5 - 5.0	A-6(1)	35	11	38.0	22.0	9.0	30.0	99.0	78.0	39.1	16.1	ND

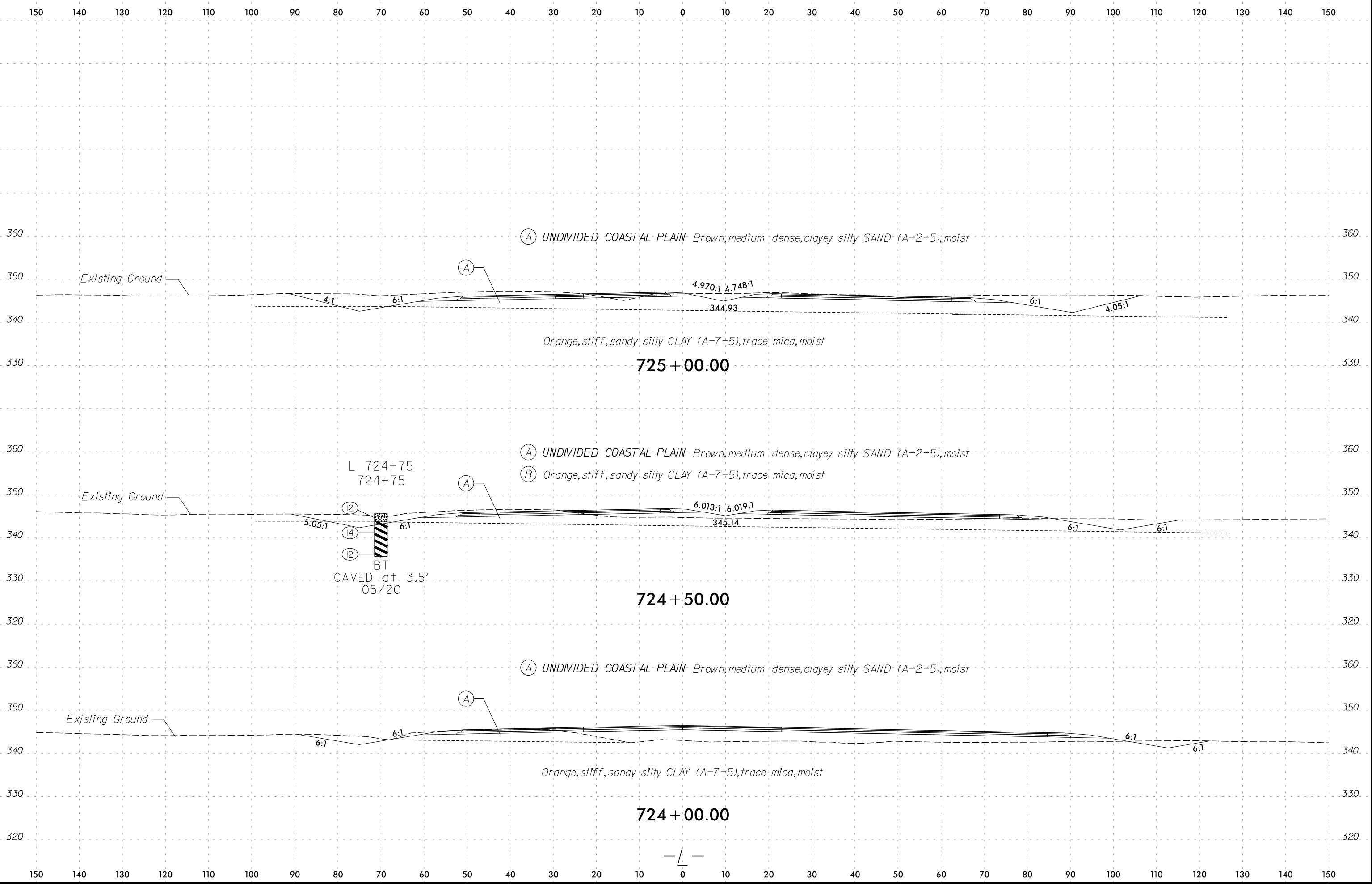
- (A) UNDIVIDED COASTAL PLAIN Brown-tan-red, soft to very stiff, fine to coarse sandy slightly plastic CLAY (A-6), moist
- (B) Brown, medium dense, clayey silty fine to coarse SAND (A-2-4), wet

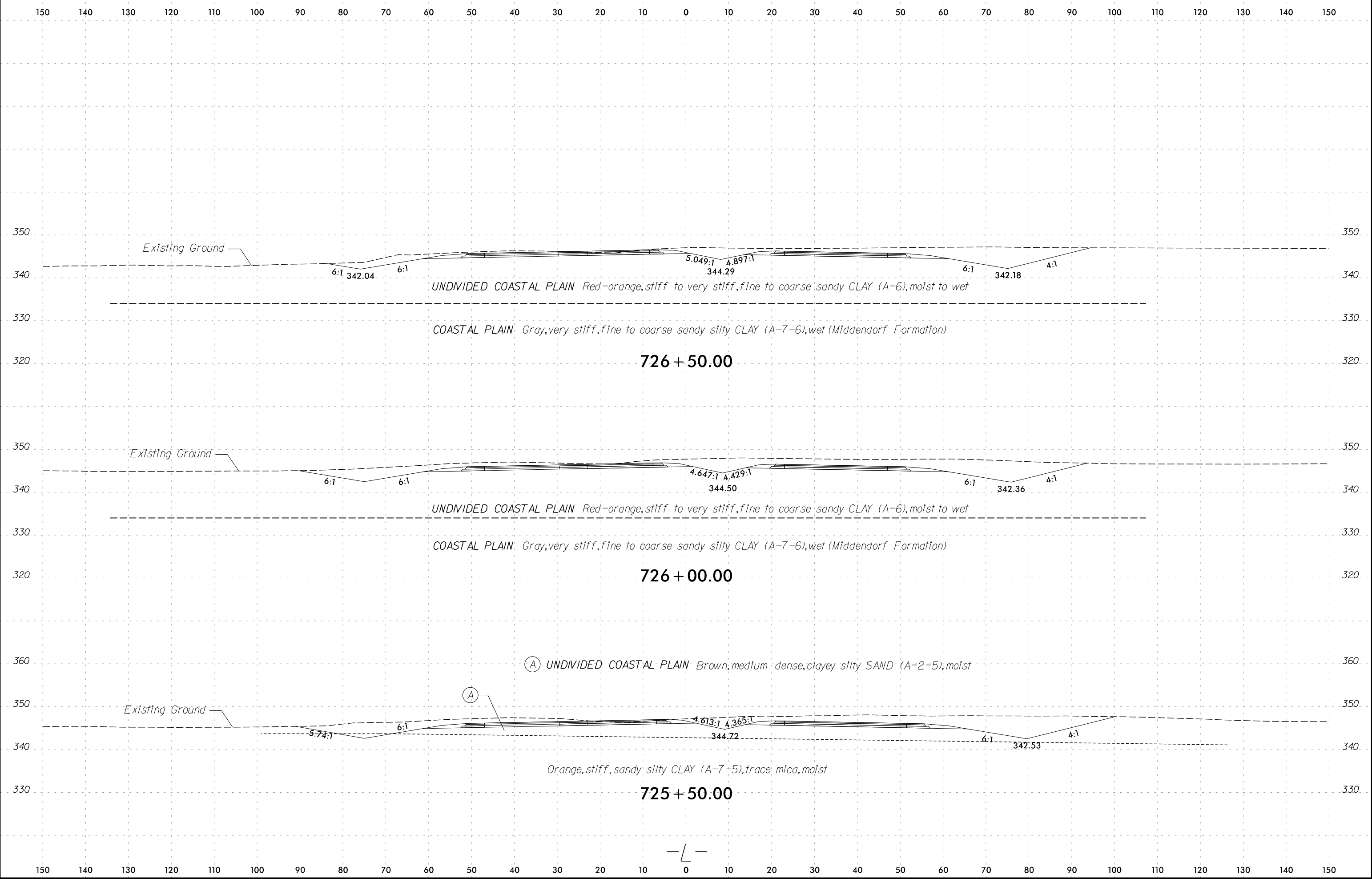




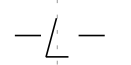
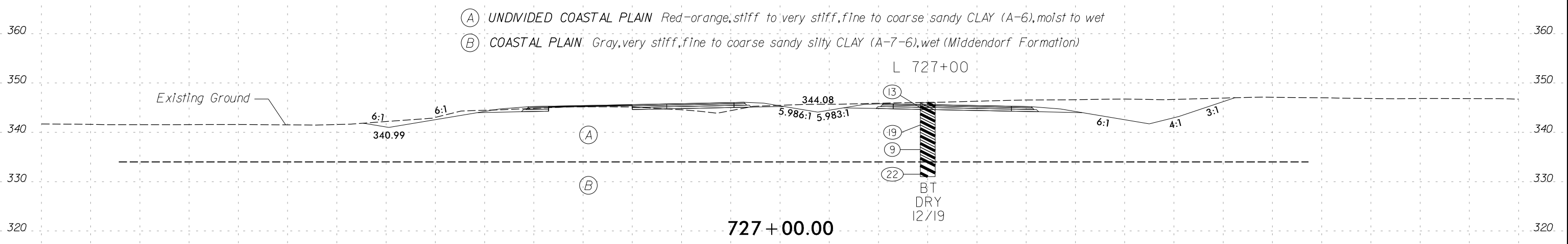
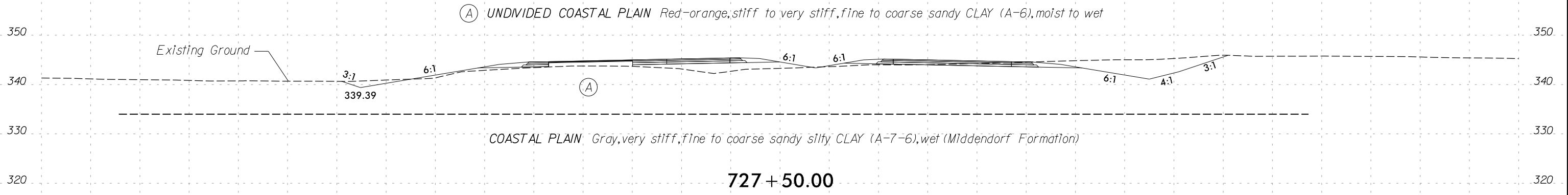
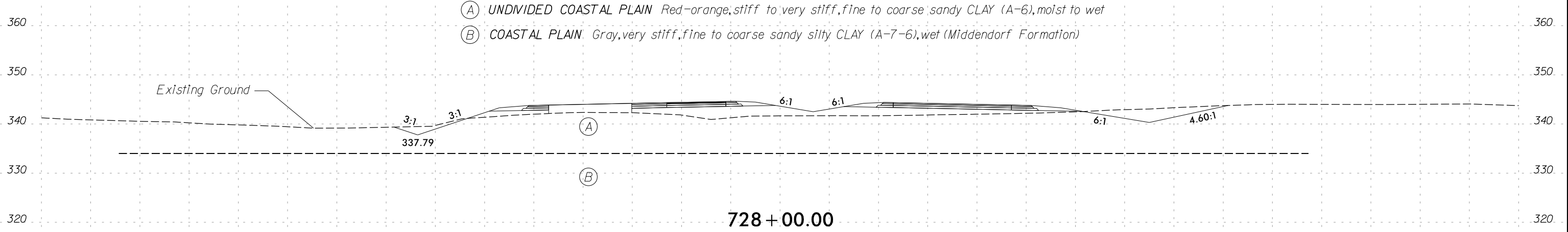
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1294	722+50	40' RT	0.0 - 1.5	A-2-4	27	NP	47.6	20.0	4.3	28.1	98.6	69.4	32.4	17.7	ND

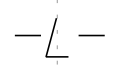
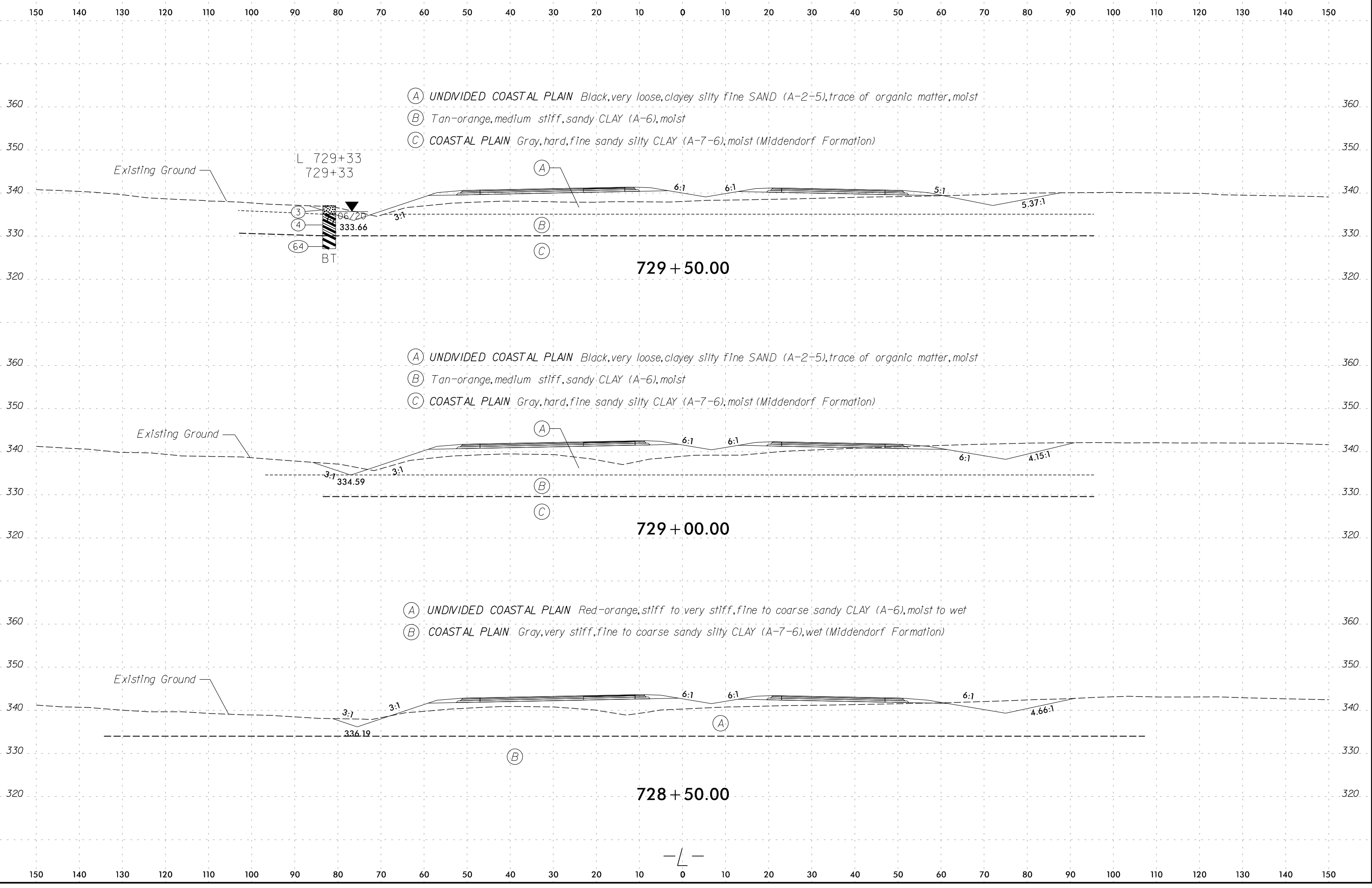




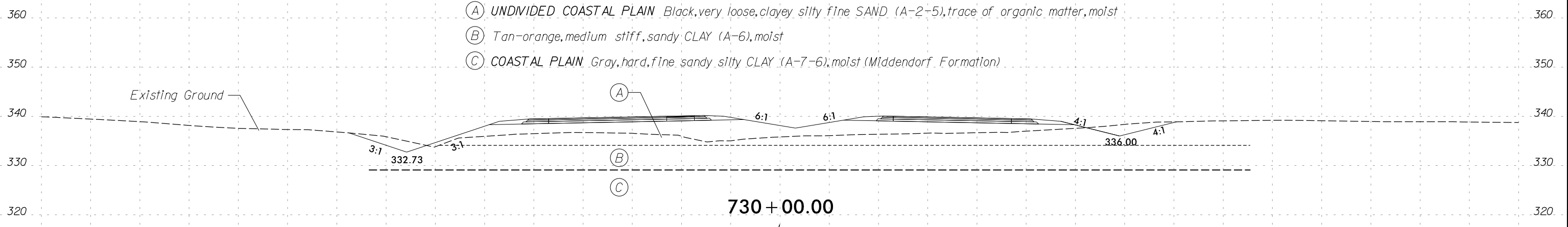
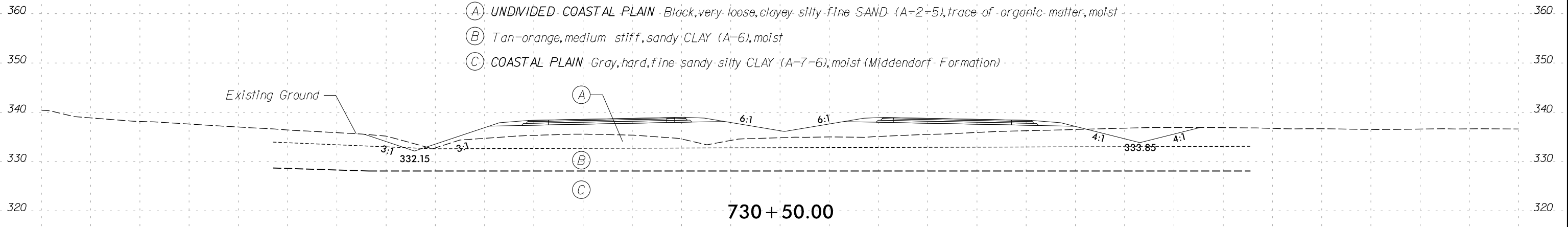
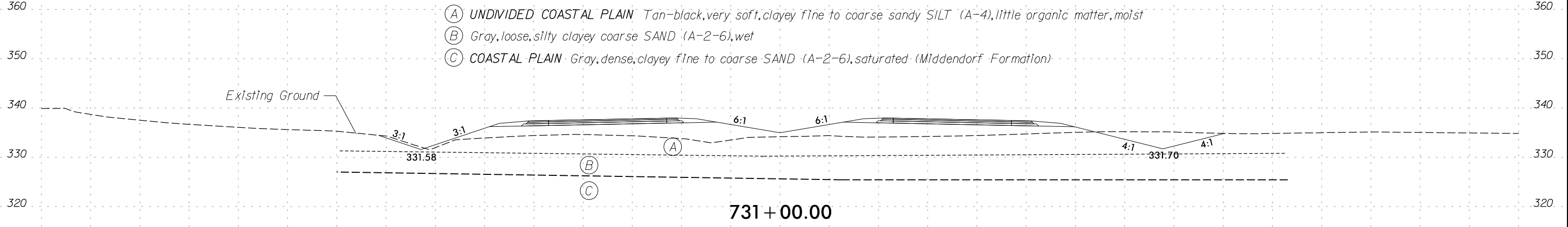


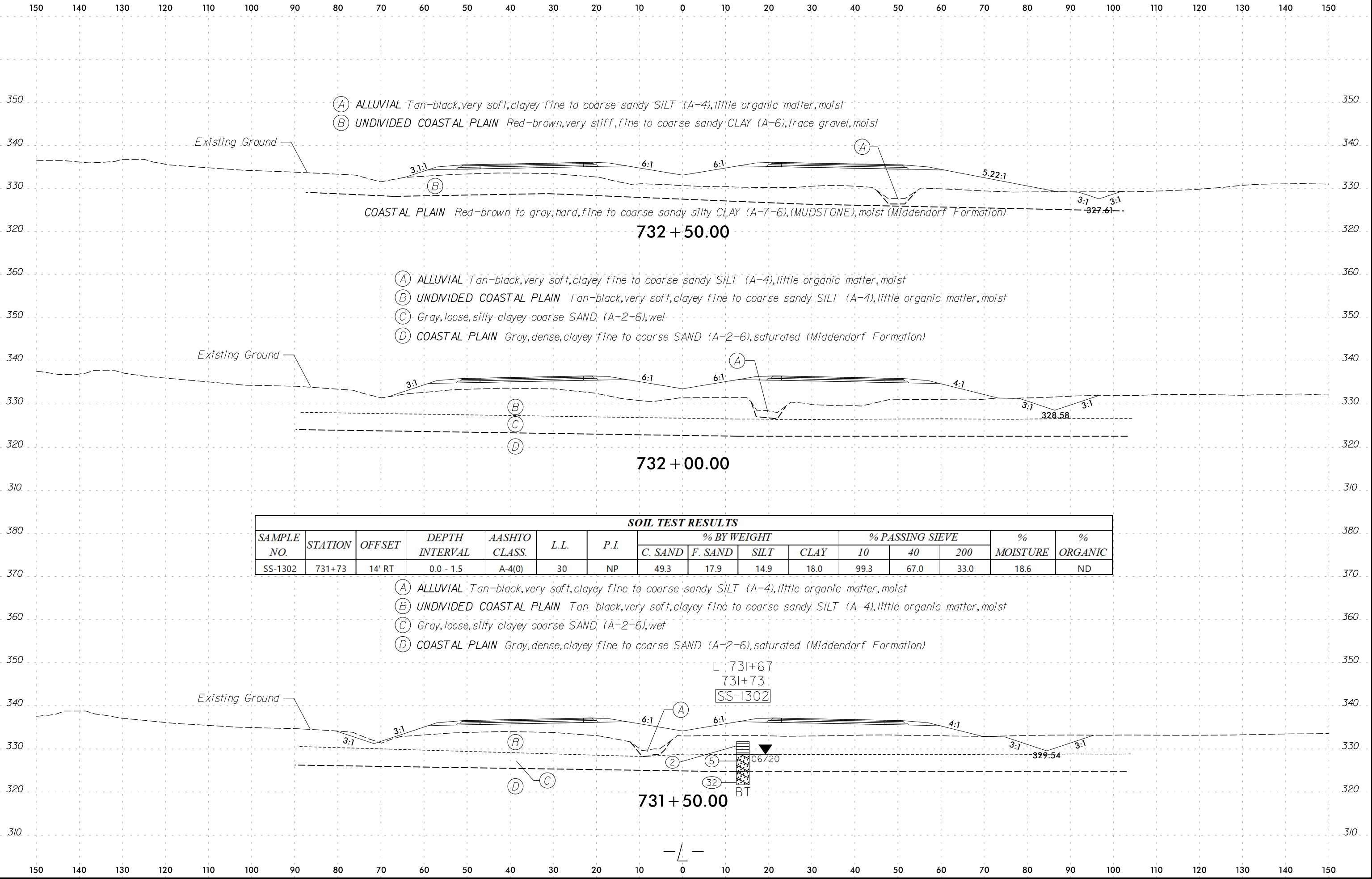
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





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

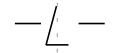
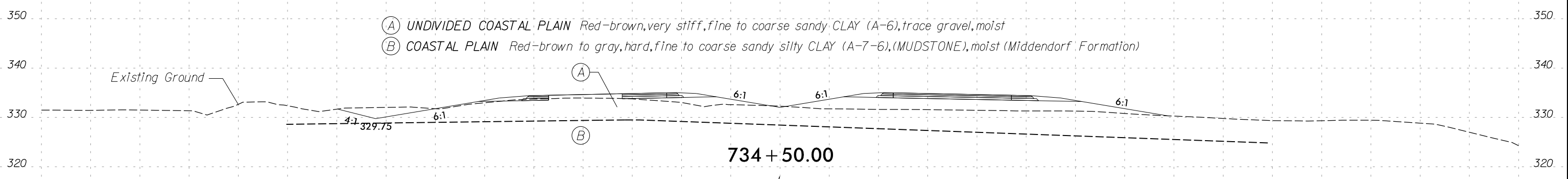
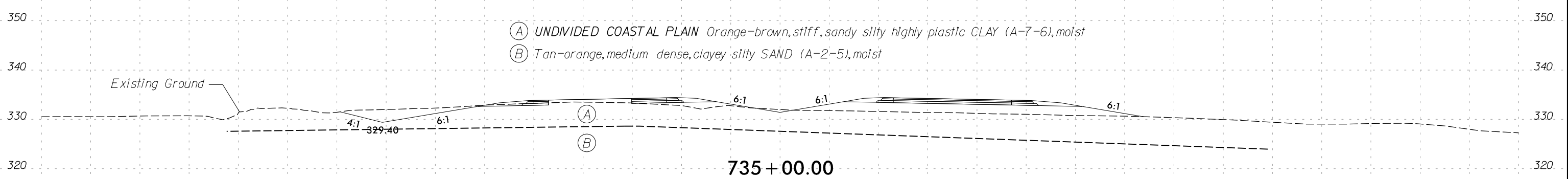
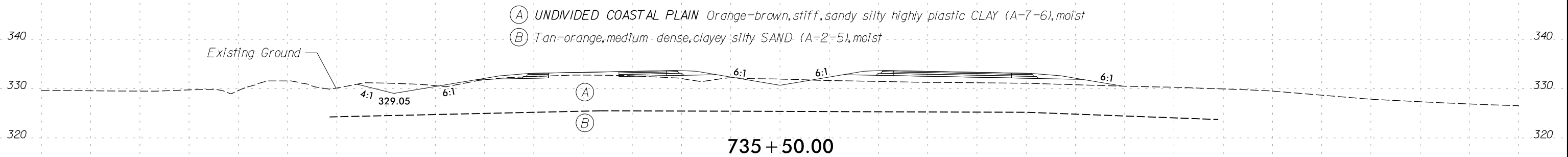


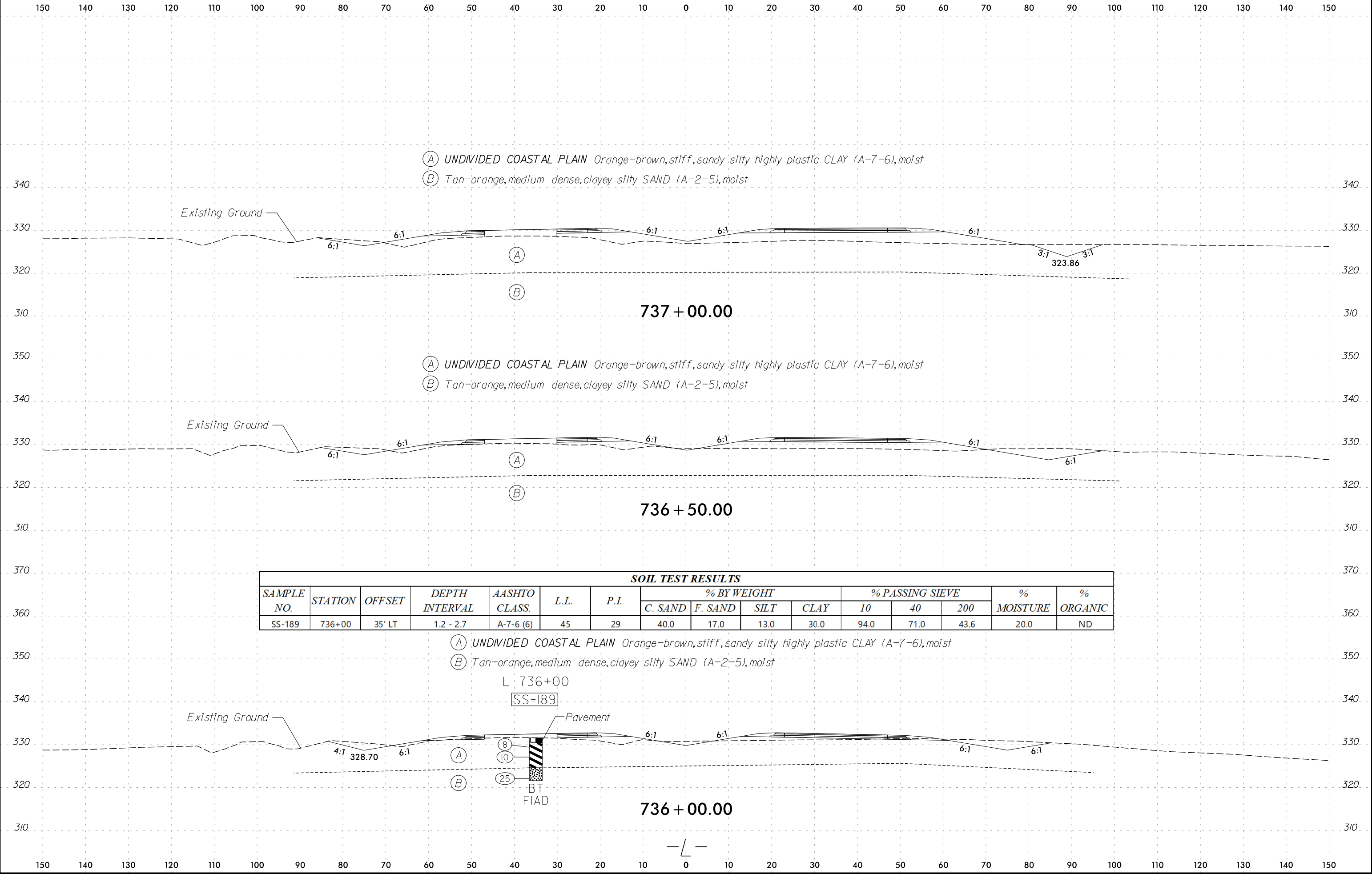


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1302	731+73	14' RT	0.0 - 1.5	A-4(0)	30	NP	49.3	17.9	14.9	18.0	99.3	67.0	33.0	18.6	ND

- (A) ALLUVIAL Tan-black, very soft, clayey fine to coarse sandy SILT (A-4), little organic matter, moist
- (B) UNDIVIDED COASTAL PLAIN Tan-black, very soft, clayey fine to coarse sandy SILT (A-4), little organic matter, moist
- (C) Gray, loose, silty clayey coarse SAND (A-2-6), wet
- (D) COASTAL PLAIN Gray, dense, clayey fine to coarse SAND (A-2-6), saturated (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





(A) UNDIVIDED COASTAL PLAIN Orange-brown, stiff, sandy silty highly plastic CLAY (A-7-6), moist
 (B) Tan-orange, medium dense, clayey silty SAND (A-2-5), moist

737 + 00.00

(A) UNDIVIDED COASTAL PLAIN Orange-brown, stiff, sandy silty highly plastic CLAY (A-7-6), moist
 (B) Tan-orange, medium dense, clayey silty SAND (A-2-5), moist

736 + 50.00

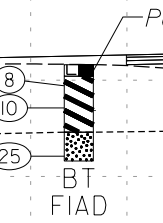
SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-189	736+00	35' LT	1.2 - 2.7	A-7-6 (6)	45	29	40.0	17.0	13.0	30.0	94.0	71.0	43.6	20.0	ND

(A) UNDIVIDED COASTAL PLAIN Orange-brown, stiff, sandy silty highly plastic CLAY (A-7-6), moist
 (B) Tan-orange, medium dense, clayey silty SAND (A-2-5), moist

L 736+00

SS-189

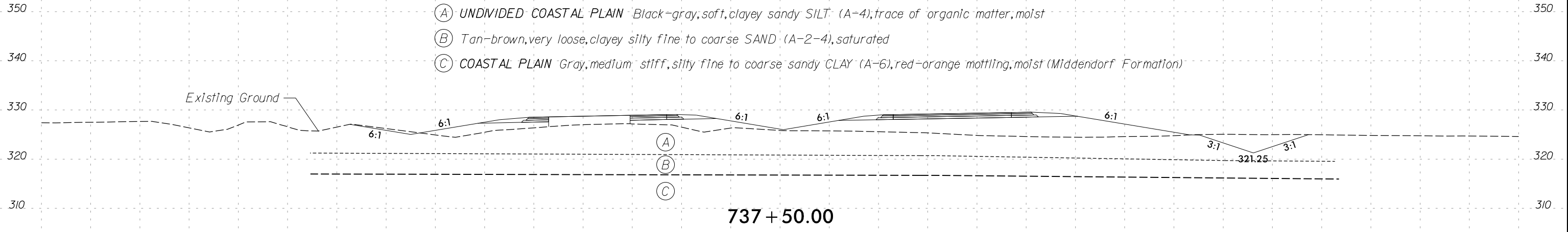
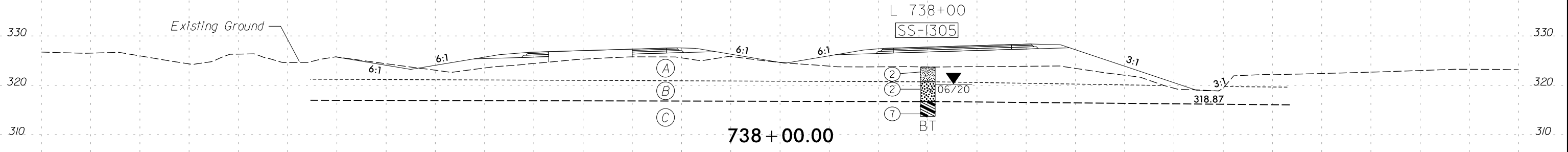


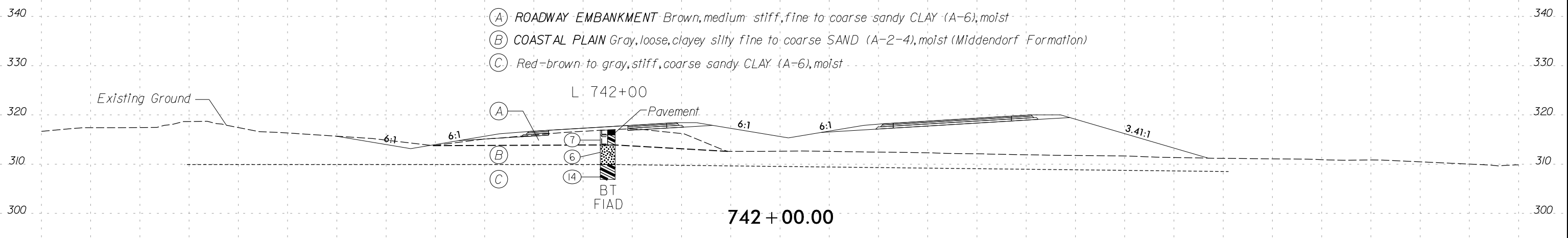
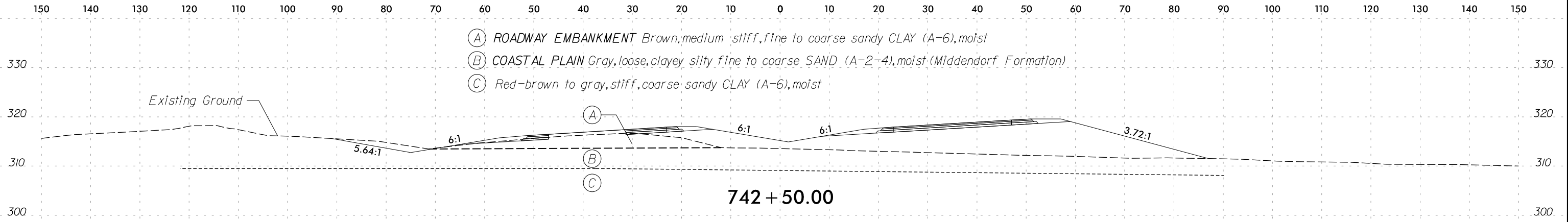
736 + 00.00

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

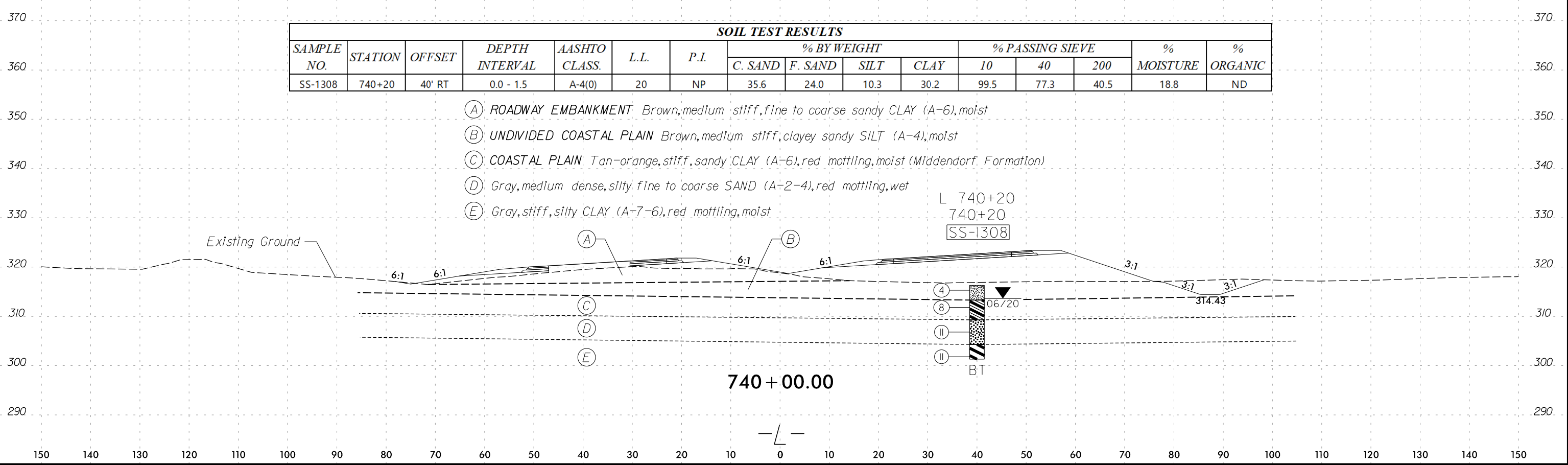
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1305	738+00	30' RT	0.0 - 1.5	A-4(0)	25	NP	42.8	19.5	21.7	16.0	99.8	60.6	42.4	ND	ND

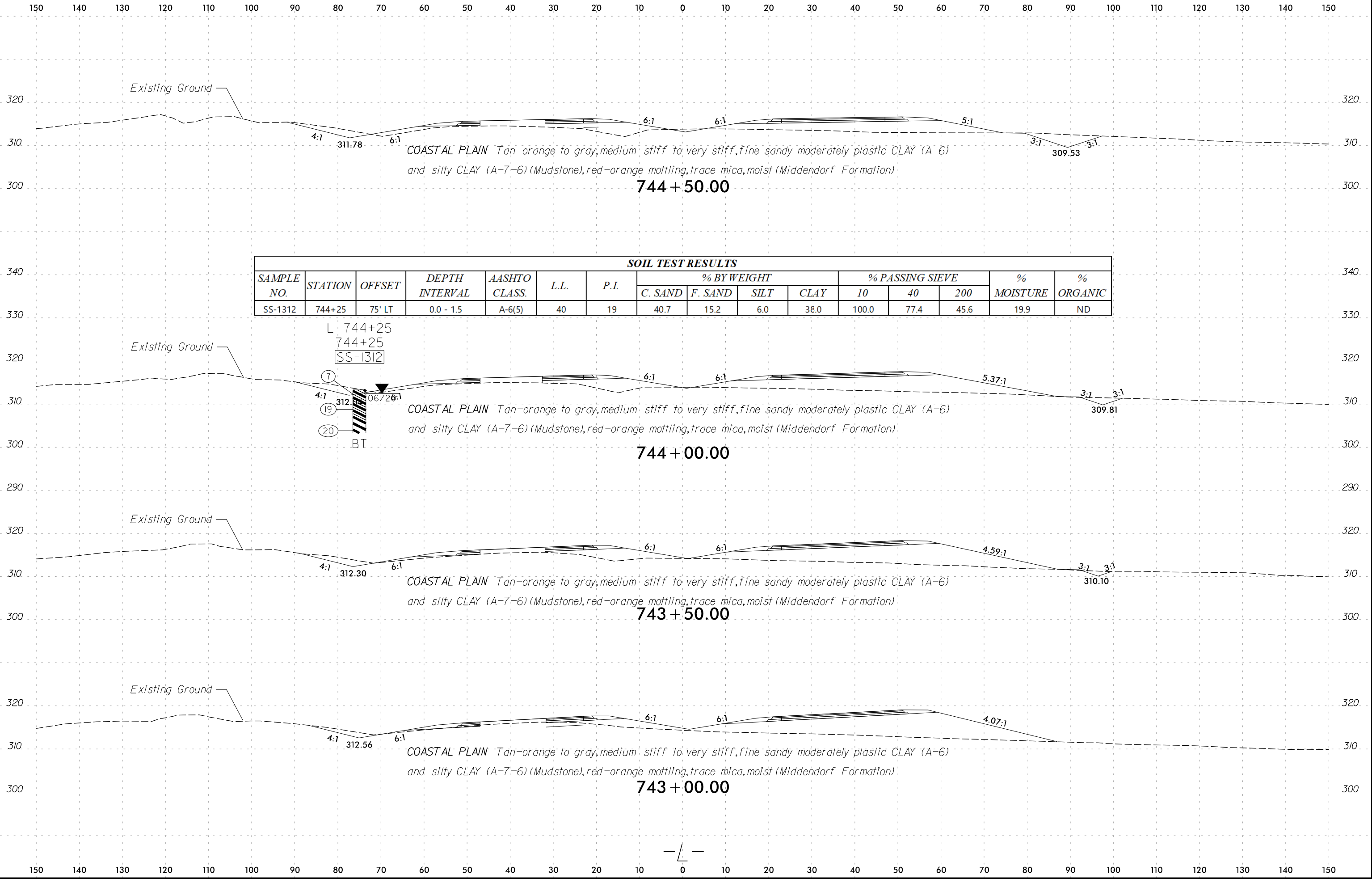
- (A) UNDIVIDED COASTAL PLAIN Black-gray, soft, clayey sandy SILT (A-4), trace of organic matter, moist
- (B) Tan-brown, very loose, clayey silty fine to coarse SAND (A-2-4), saturated
- (C) COASTAL PLAIN Gray, medium stiff, silty fine to coarse sandy CLAY (A-6), red-orange mottling, moist (Middendorf Formation)





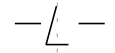
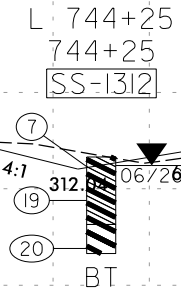
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1308	740+20	40' RT	0.0 - 1.5	A-4(0)	20	NP	35.6	24.0	10.3	30.2	99.5	77.3	40.5	18.8	ND



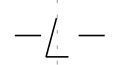
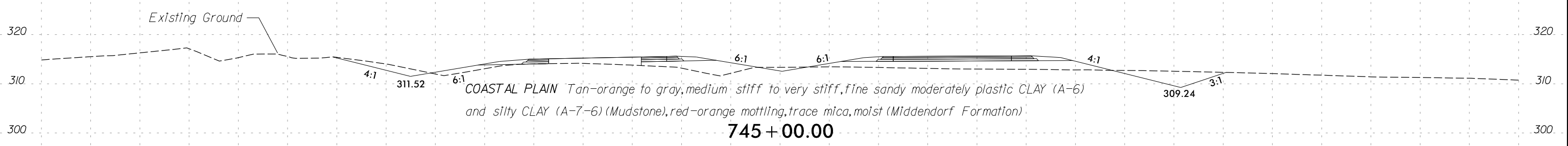
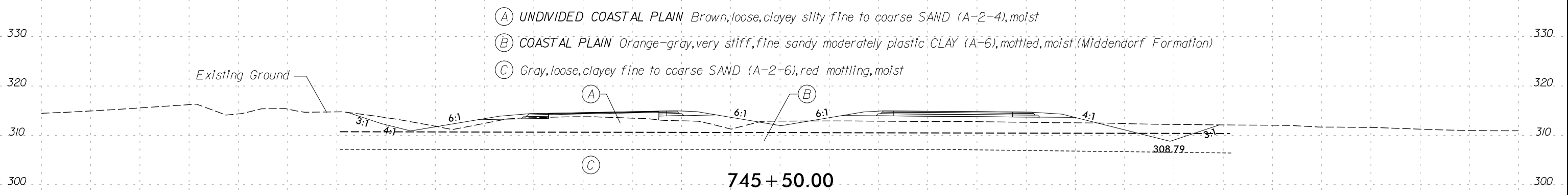
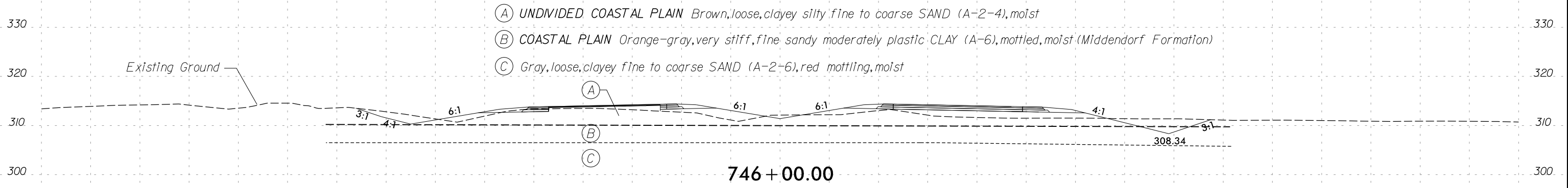


SOIL TEST RESULTS

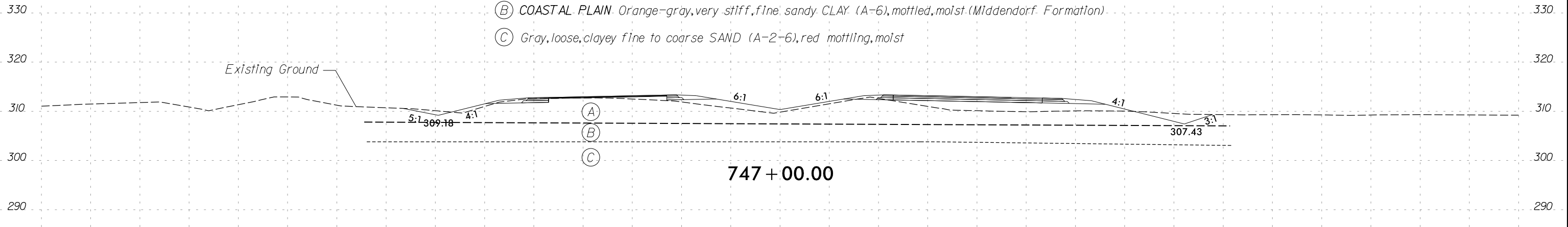
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1312	744+25	75' LT	0.0 - 1.5	A-6(5)	40	19	40.7	15.2	6.0	38.0	100.0	77.4	45.6	19.9	ND



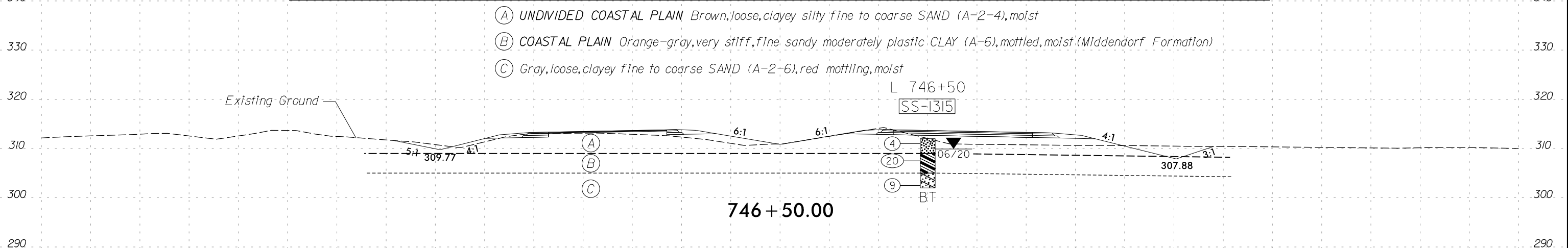
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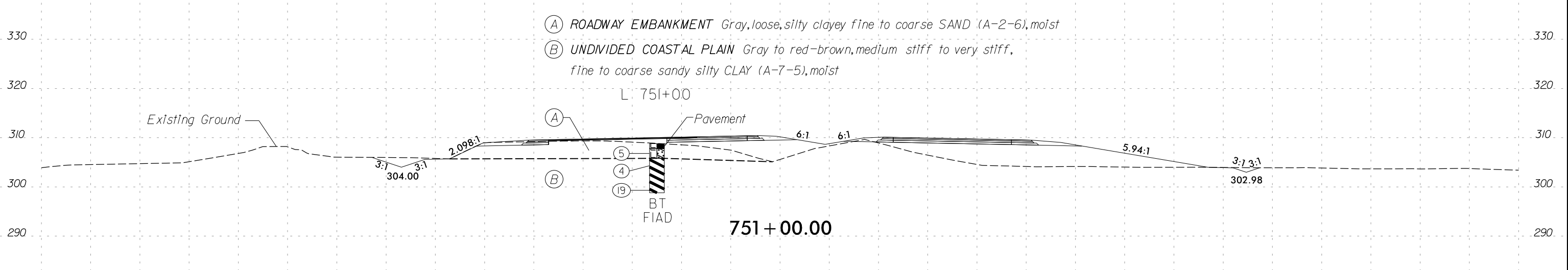
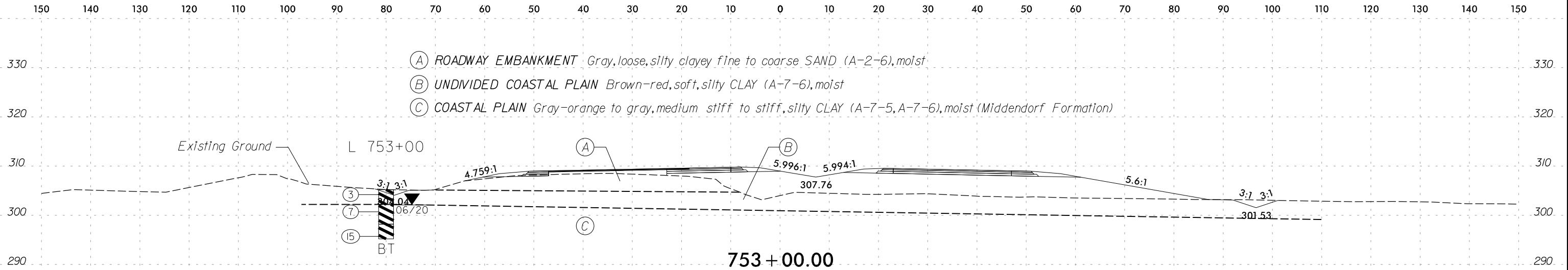


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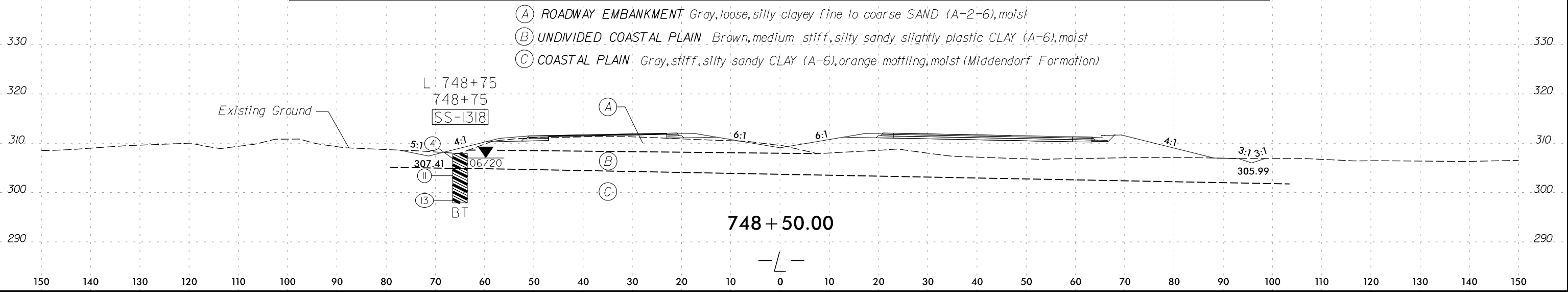


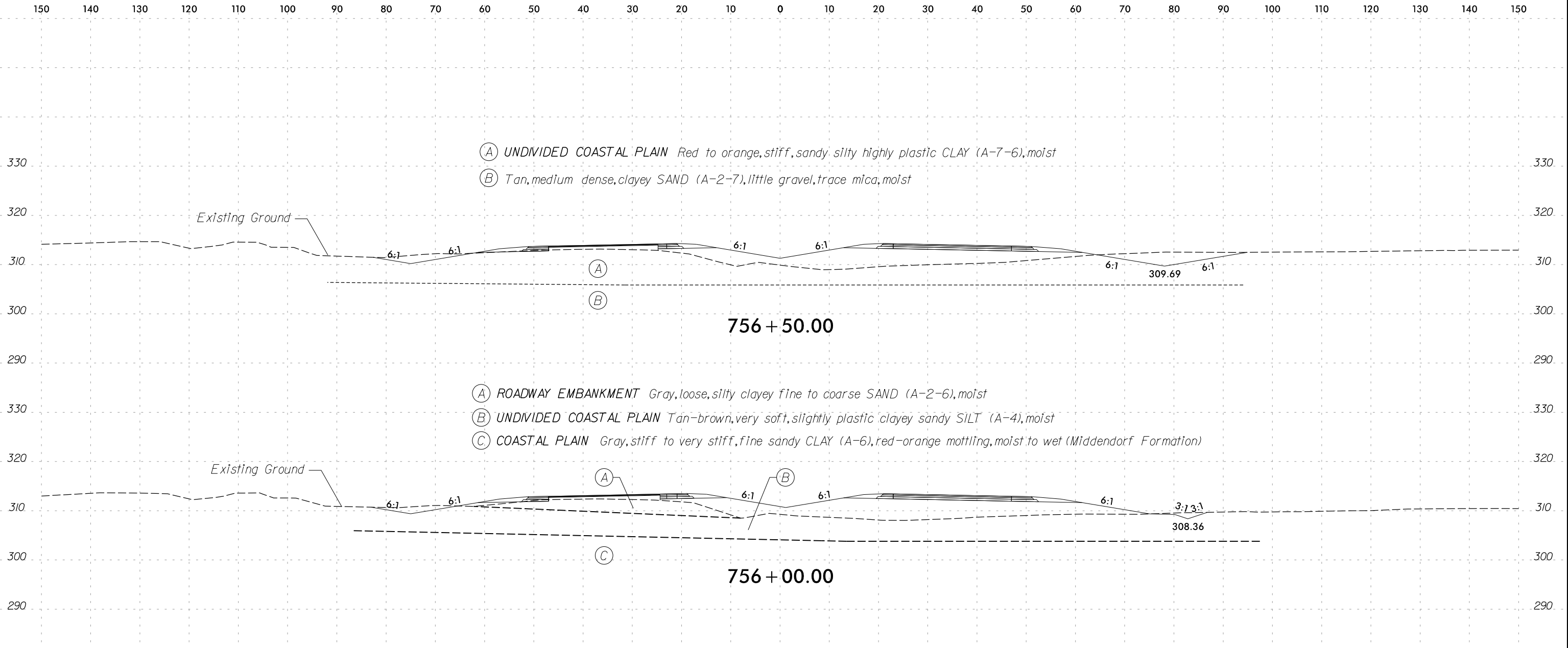
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SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1315	746+50	30' RT	0.0 - 1.5	A-2-4	15	NP	42.3	34.9	10.7	12.0	99.8	77.9	22.7	ND	ND



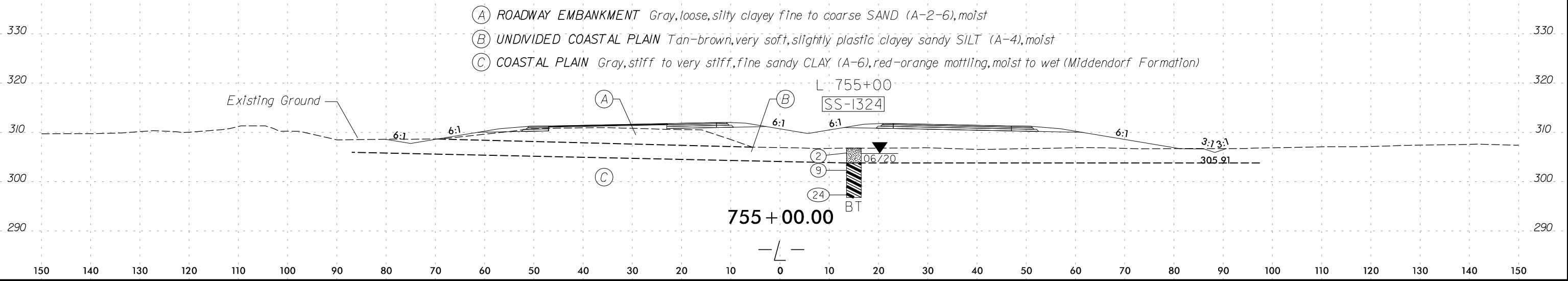


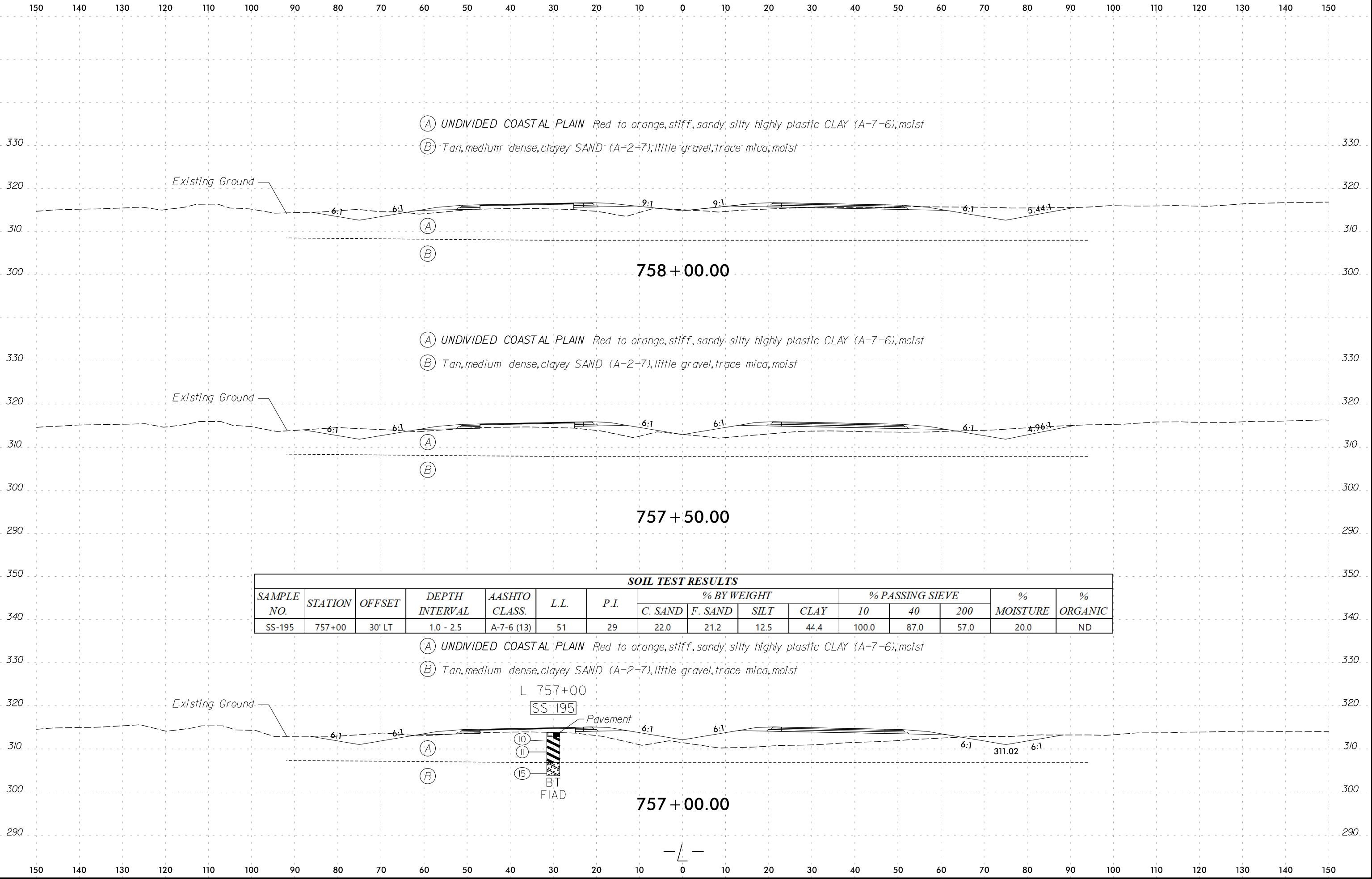
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SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1318	748+75	65' LT	0.0 - 1.5	A-6(3)	30	12	28.6	24.9	14.4	32.1	99.3	81.3	46.5	18.1	ND



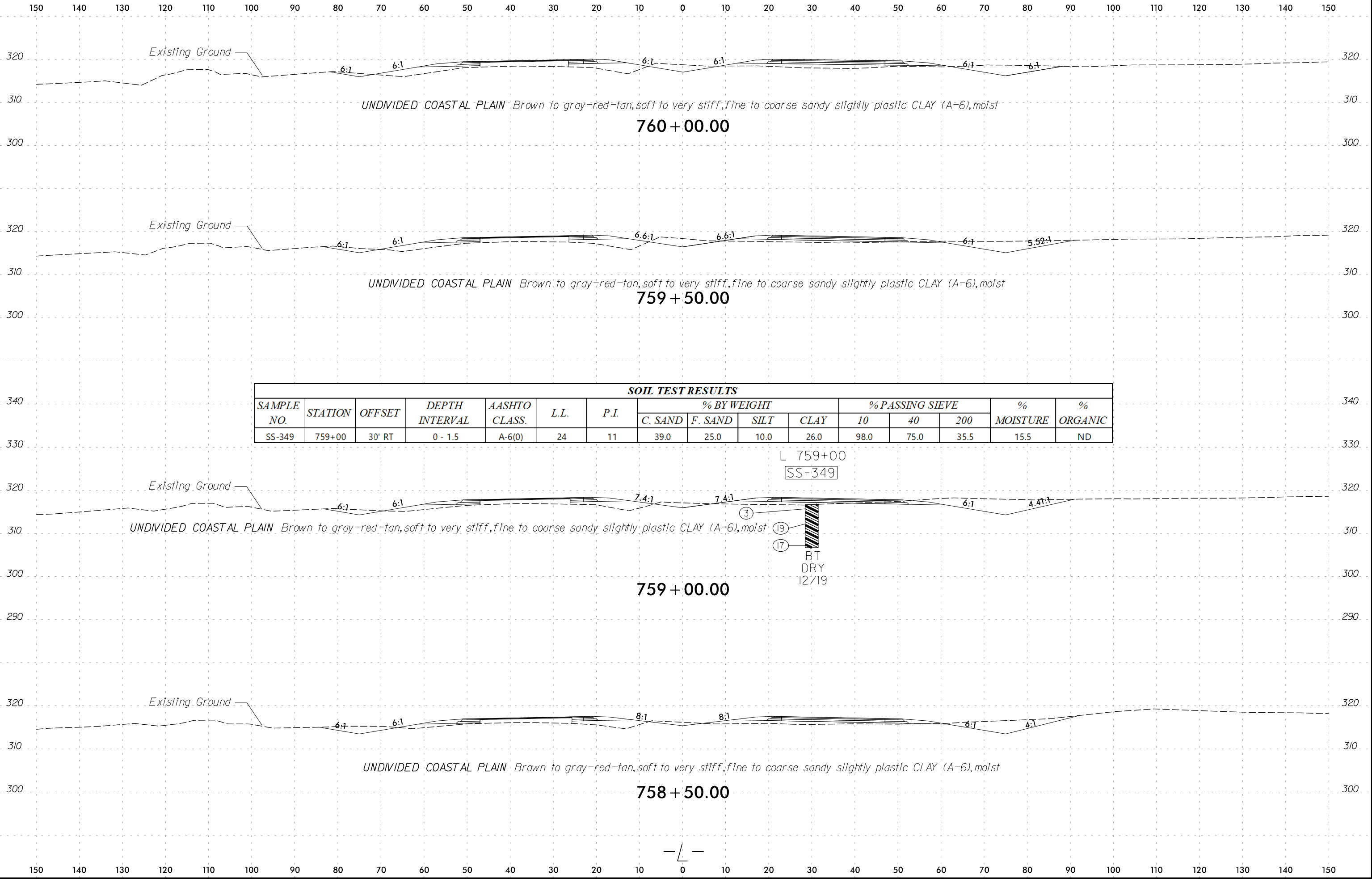


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1324	755+00	15' RT	0.0 - 1.5	A-4(1)	23	10	36.9	25.8	11.2	26.1	99.7	76.9	37.3	ND	ND





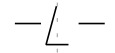
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-195	757+00	30' LT	1.0 - 2.5	A-7-6 (13)	51	29	22.0	21.2	12.5	44.4	100.0	87.0	57.0	20.0	ND

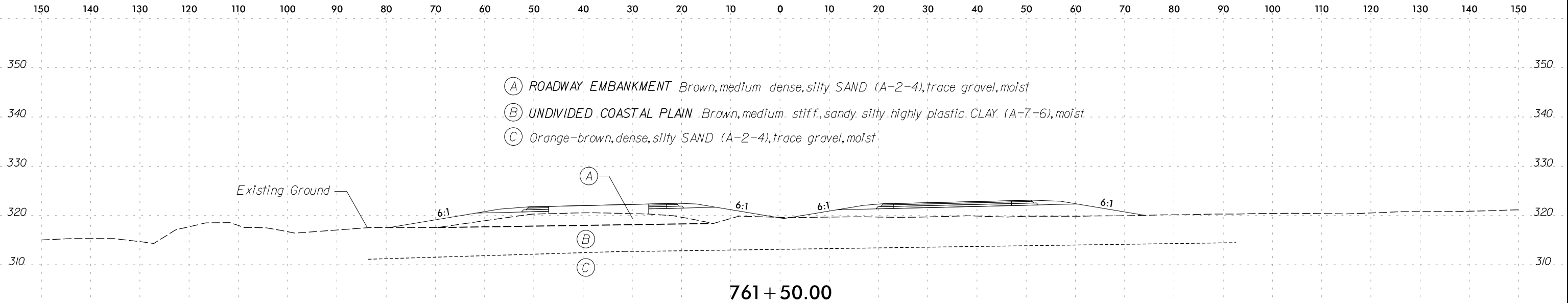


SOIL TEST RESULTS

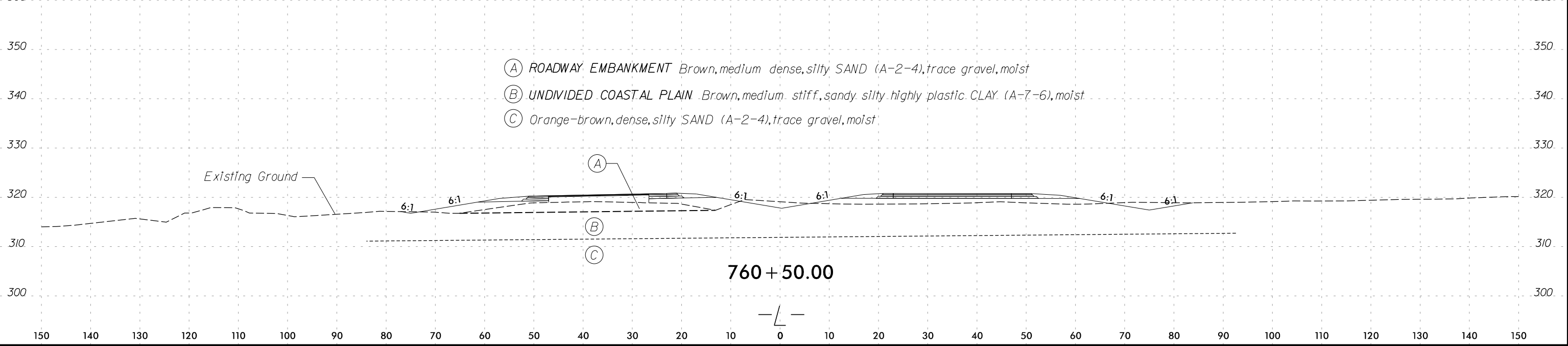
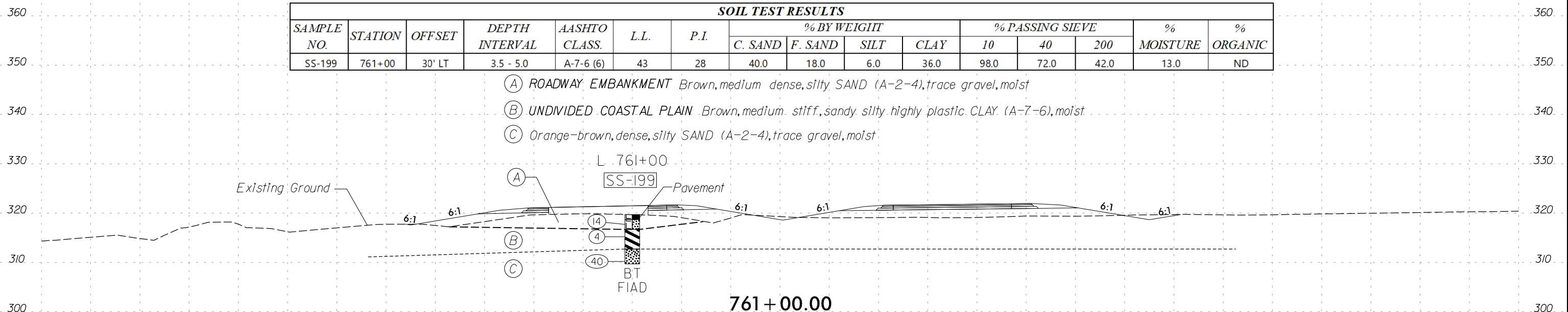
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							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-349	759+00	30' RT	0 - 1.5	A-6(0)	24	11	39.0	25.0	10.0	26.0	98.0	75.0	35.5	15.5	ND

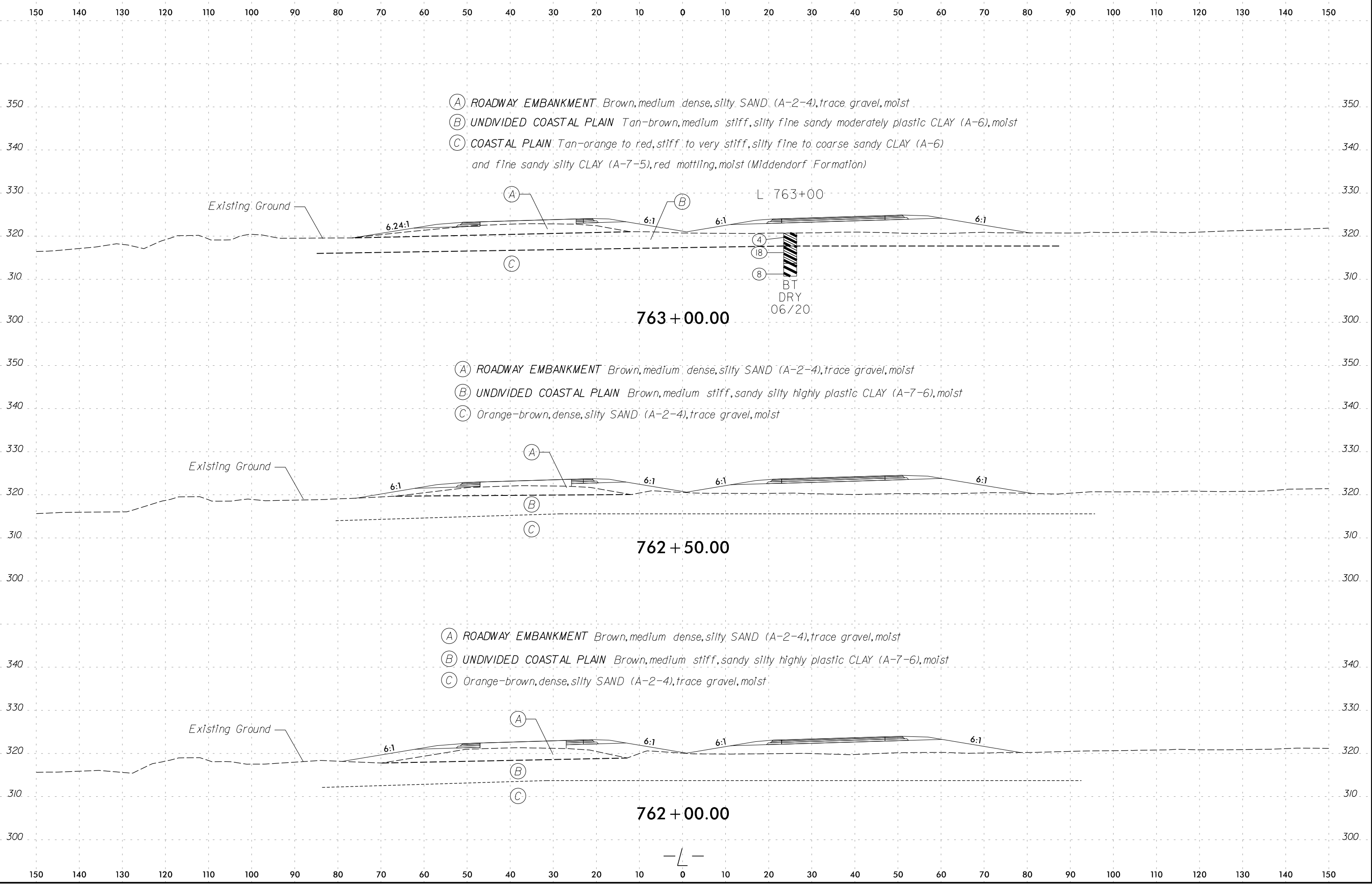
L 759+00
SS-349
BT
DRY
12/19



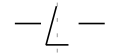
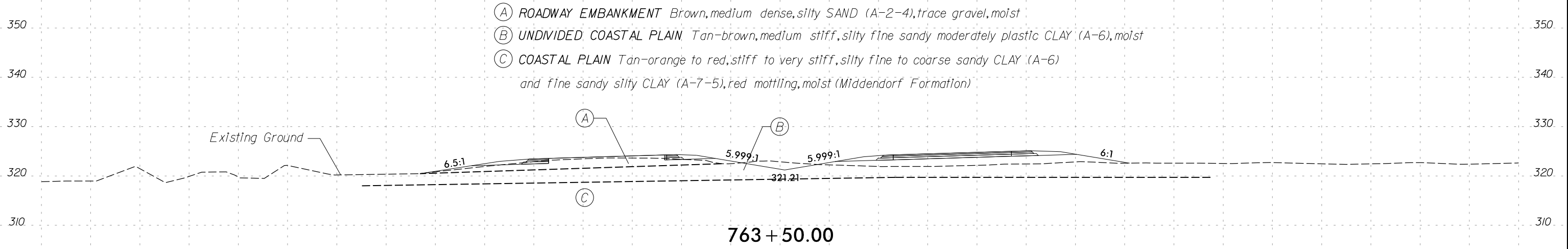
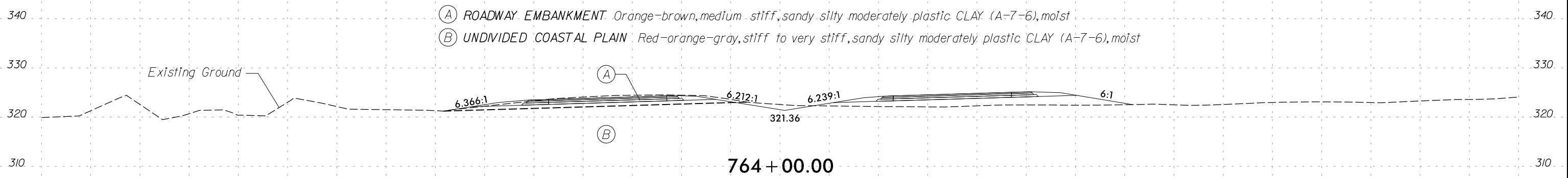
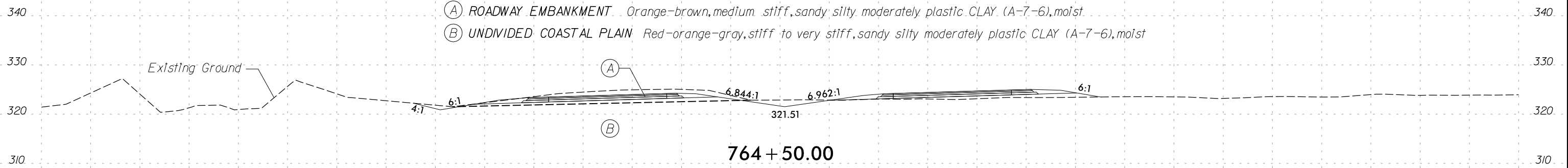


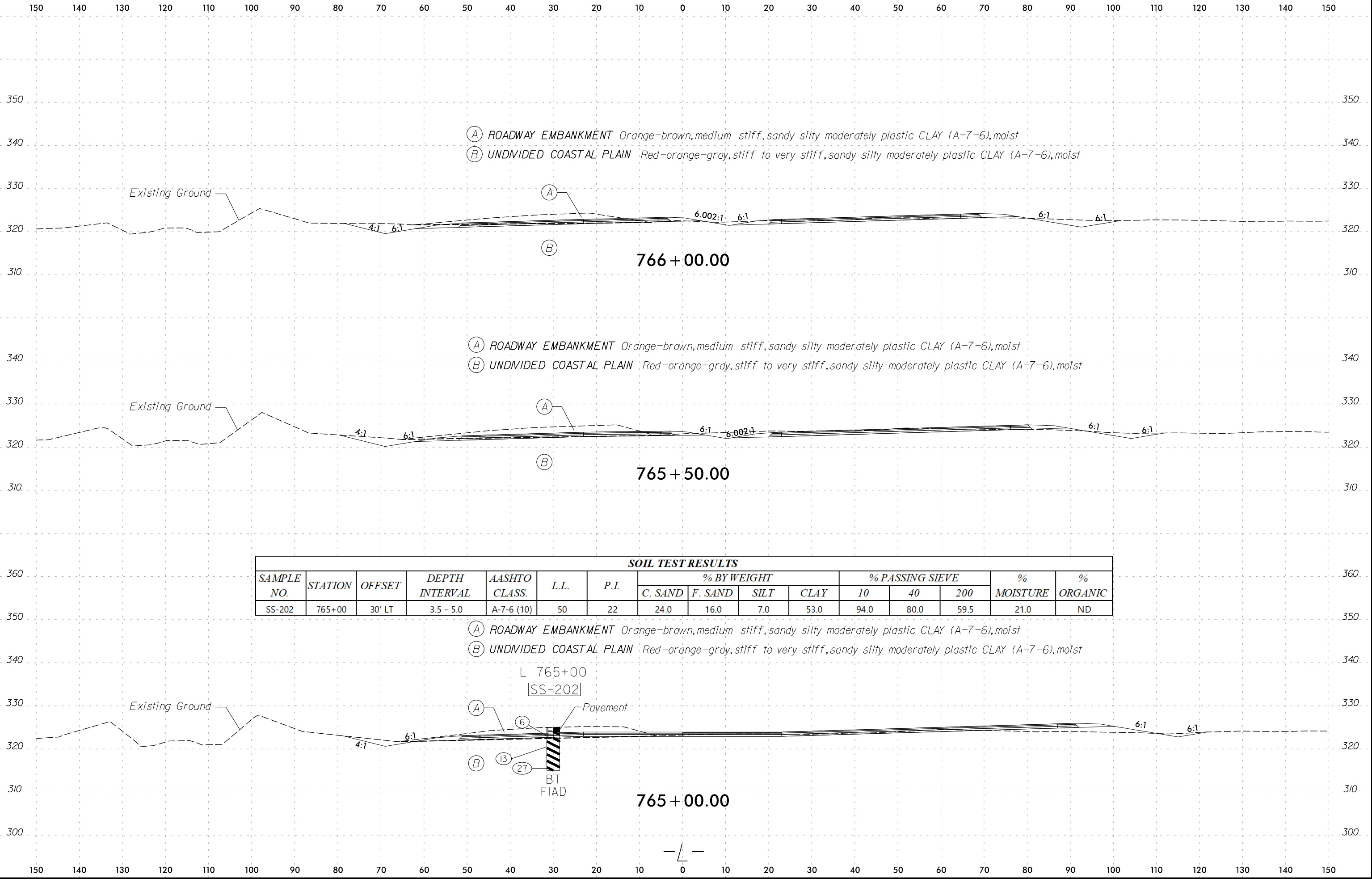
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-199	761+00	30' LT	3.5 - 5.0	A-7-6 (6)	43	28	40.0	18.0	6.0	36.0	98.0	72.0	42.0	13.0	ND



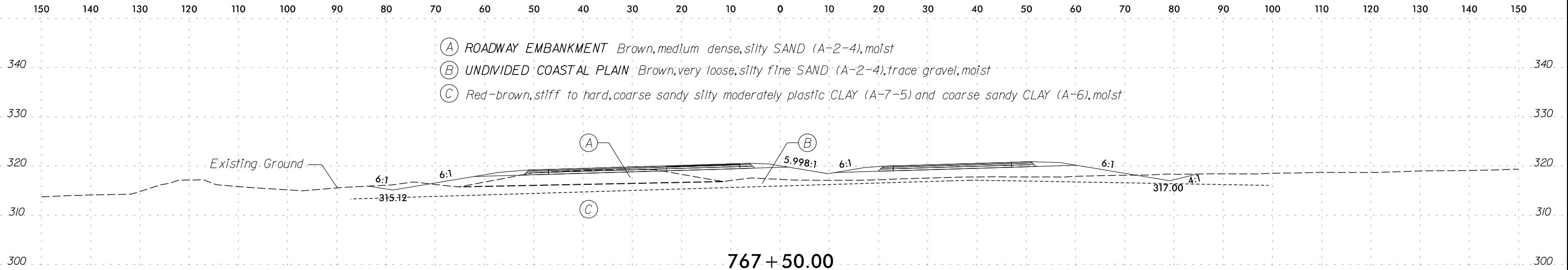


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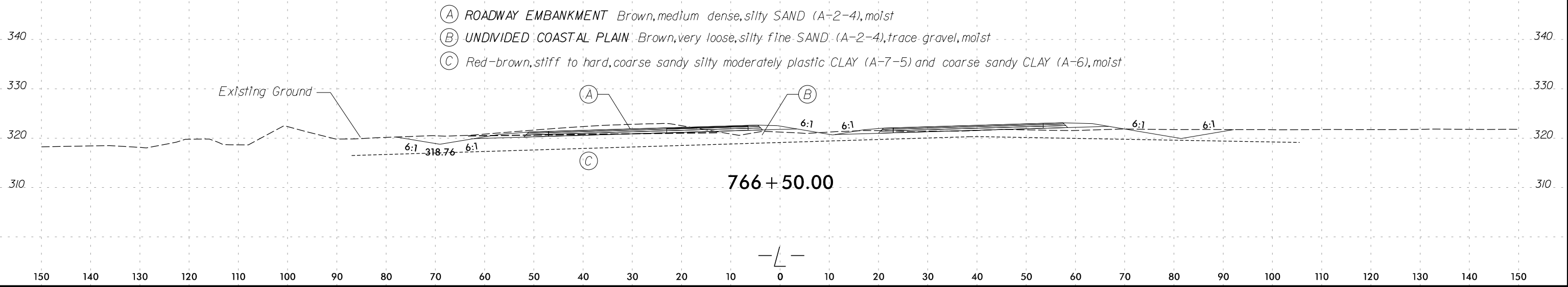
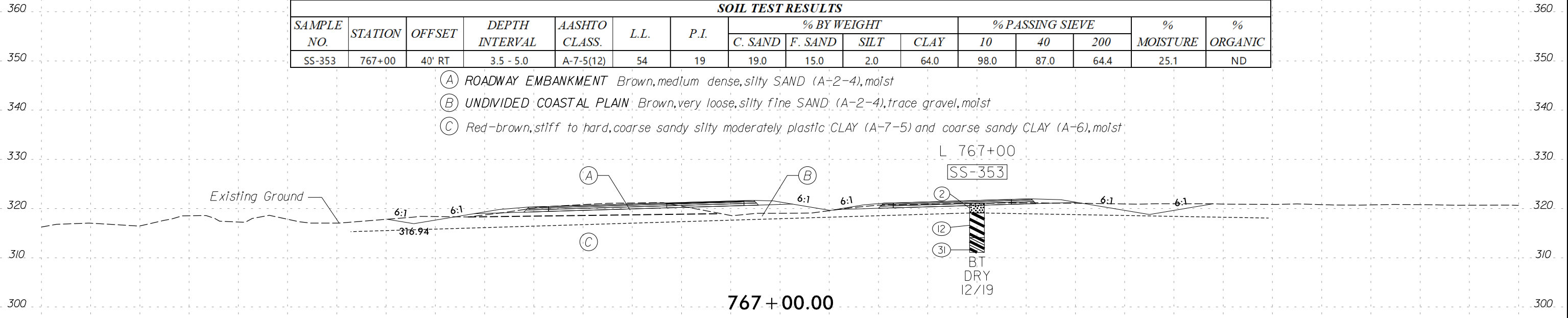




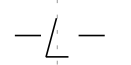
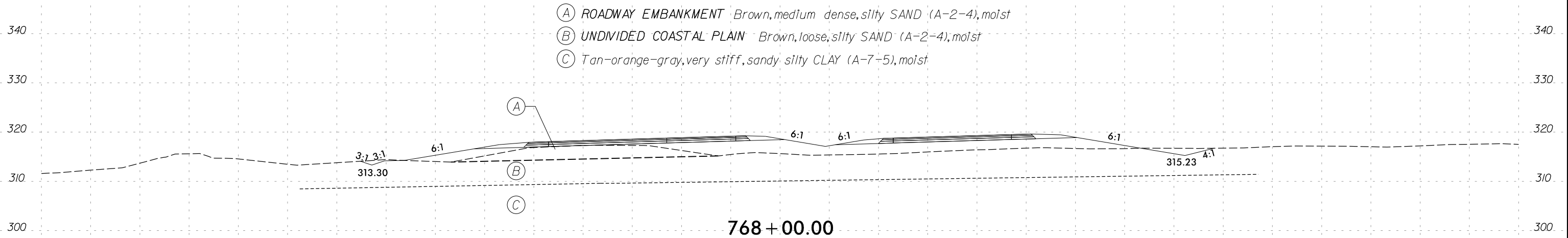
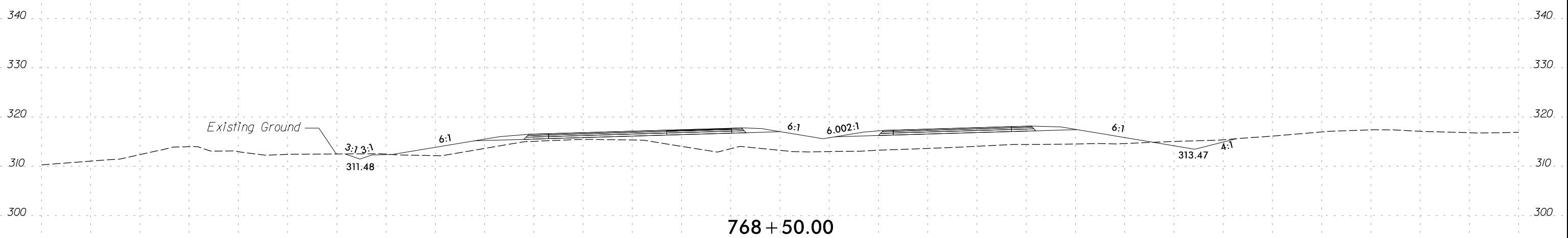
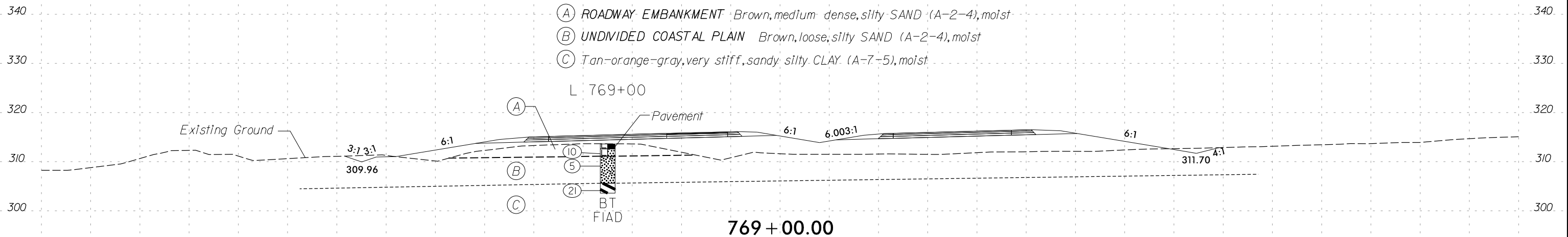
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-202	765+00	30' LT	3.5 - 5.0	A-7-6 (10)	50	22	24.0	16.0	7.0	53.0	94.0	80.0	59.5	21.0	ND

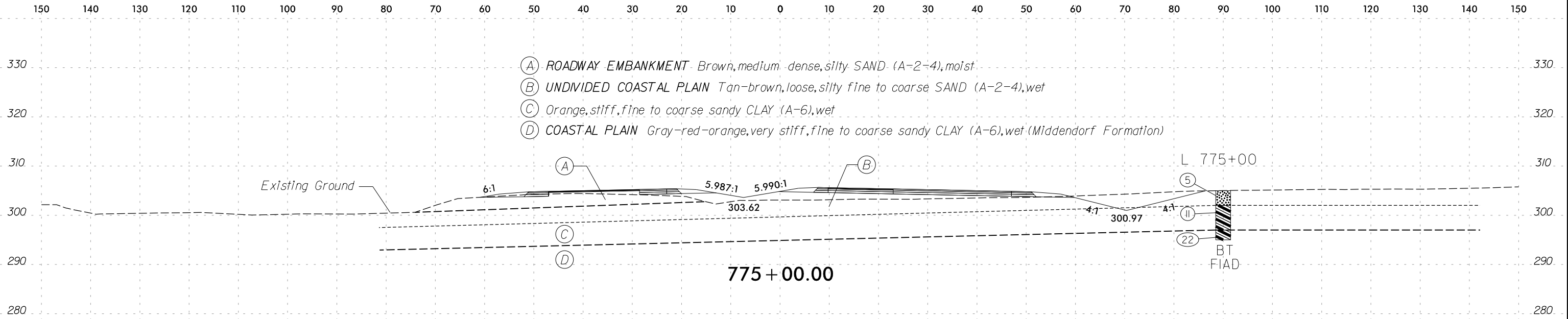


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-353	767+00	40' RT	3.5 - 5.0	A-7-5(12)	54	19	19.0	15.0	2.0	64.0	98.0	87.0	64.4	25.1	ND

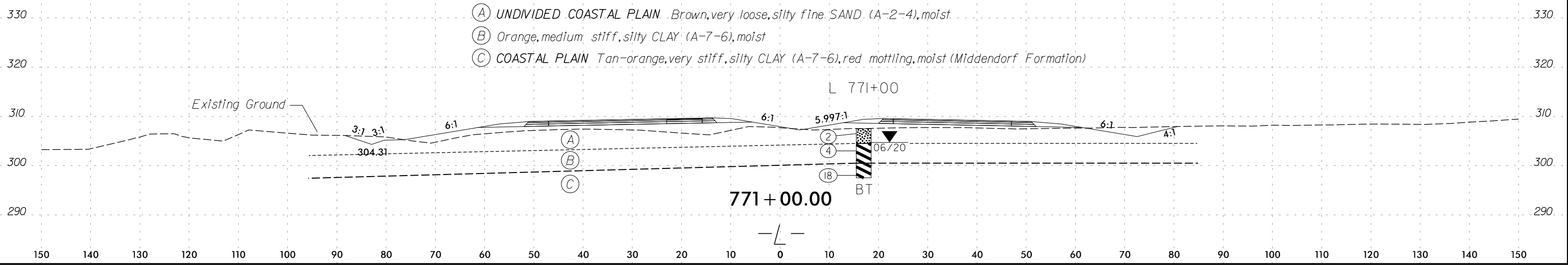
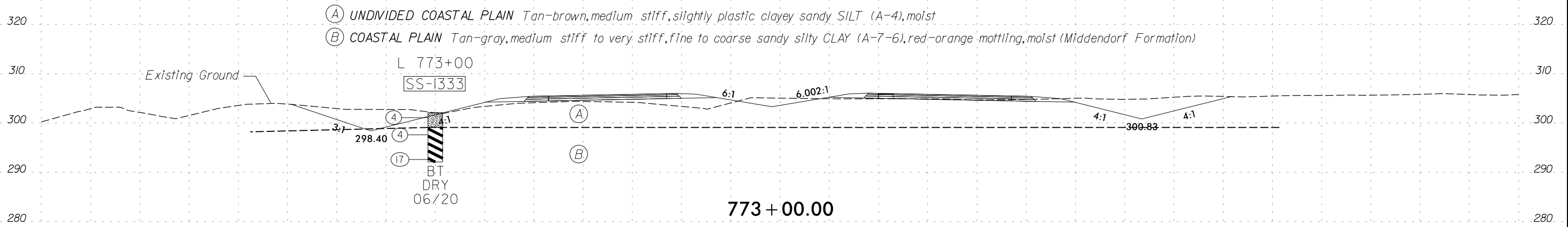


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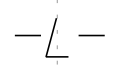
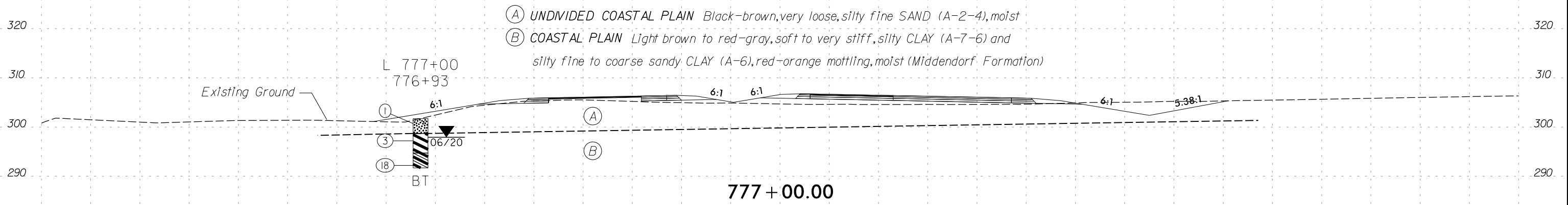
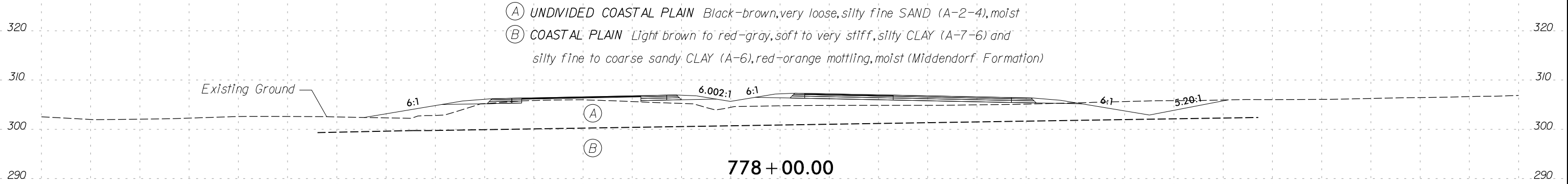
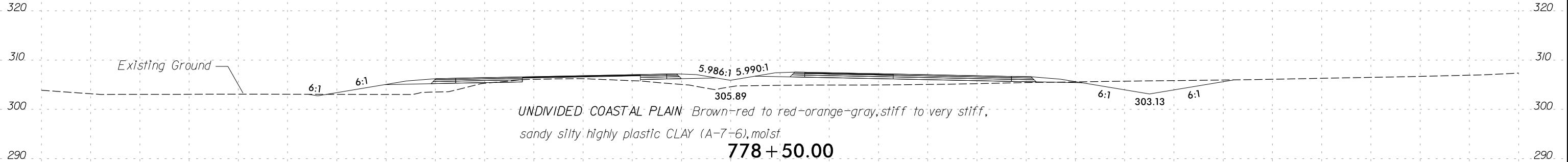




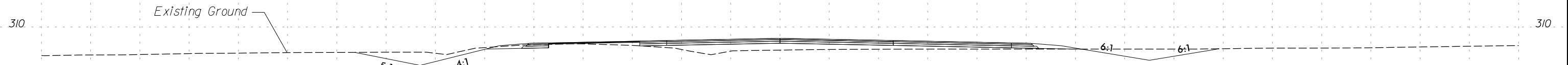
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1333	773+00	70' LT	0.0 - 1.5	A-4(1)	29	6	30.5	20.2	15.2	34.0	95.6	77.1	49.4	24.5	ND



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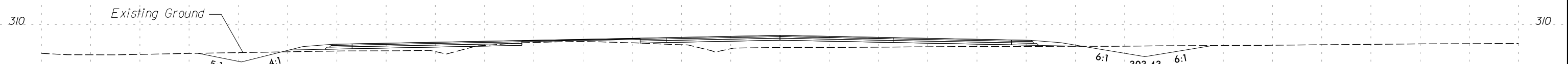


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



UNDIVIDED COASTAL PLAIN Brown-red to red-orange-gray, stiff to very stiff, sandy silty highly plastic CLAY (A-7-6), moist

780 + 00.00

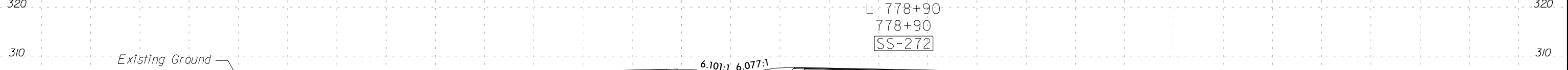


UNDIVIDED COASTAL PLAIN Brown-red to red-orange-gray, stiff to very stiff, sandy silty highly plastic CLAY (A-7-6), moist

779 + 50.00

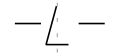
SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-272	778+90	25' RT	0.0 - 1.5	A-7-6 (8)	45	27	35.0	18.0	11.0	36.0	98.0	77.0	47.0	15.0	ND

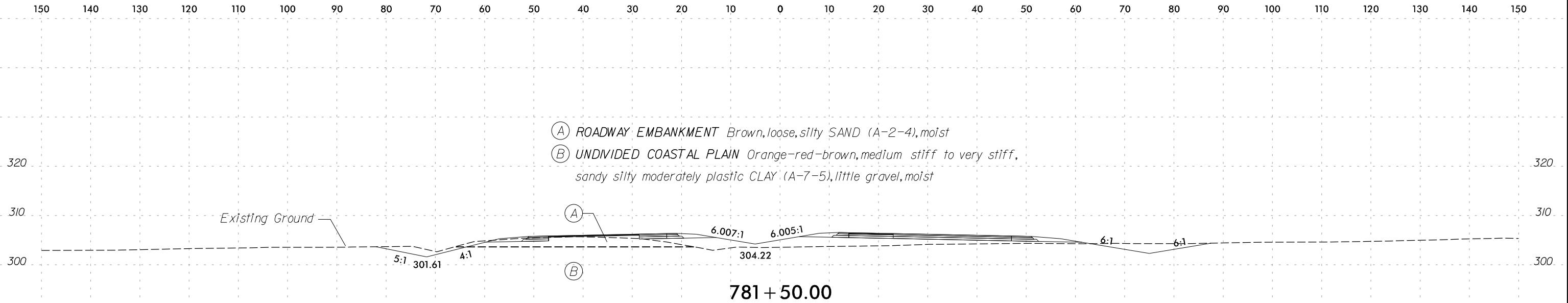


UNDIVIDED COASTAL PLAIN Brown-red to red-orange-gray, stiff to very stiff, sandy silty highly plastic CLAY (A-7-6), moist

779 + 00.00



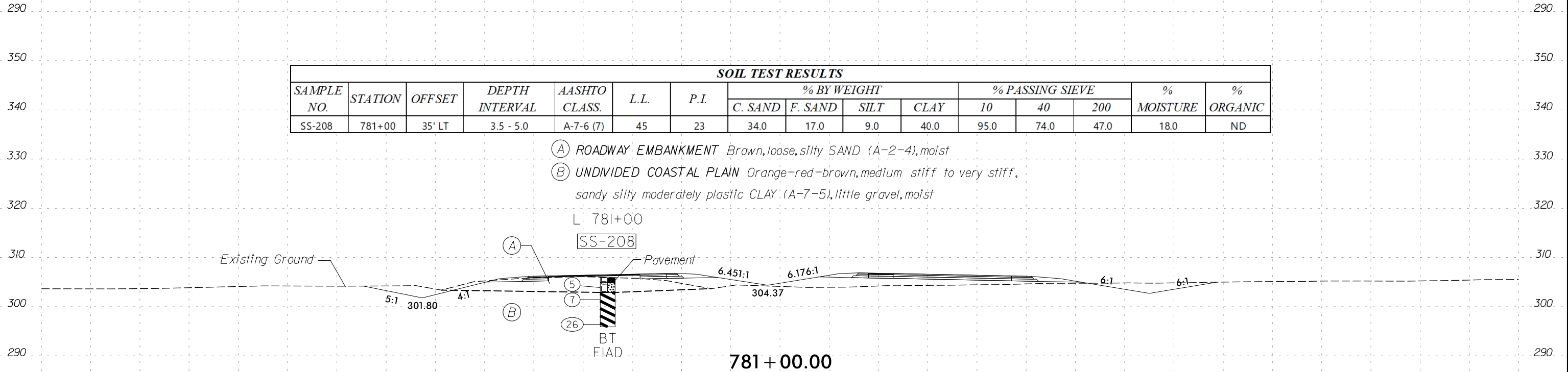
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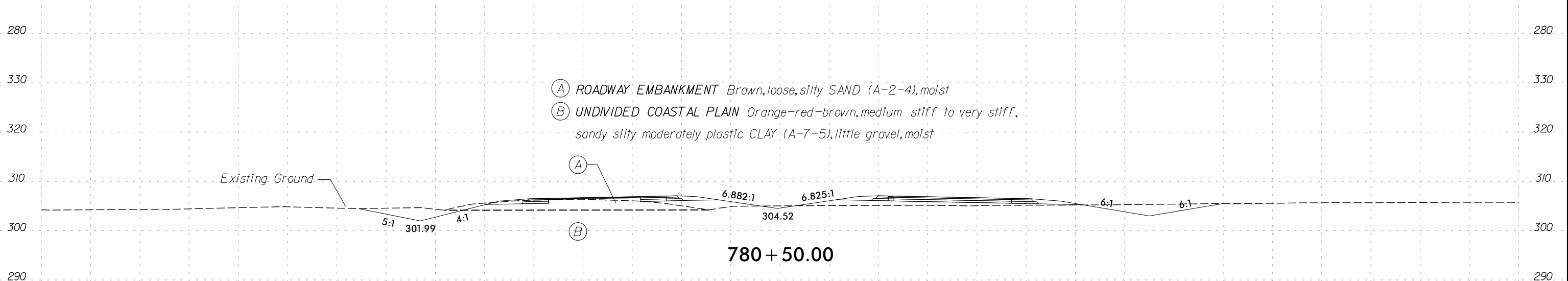
781+50.00

SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-208	781+00	35' LT	3.5 - 5.0	A-7-6 (7)	45	23	34.0	17.0	9.0	40.0	95.0	74.0	47.0	18.0	ND

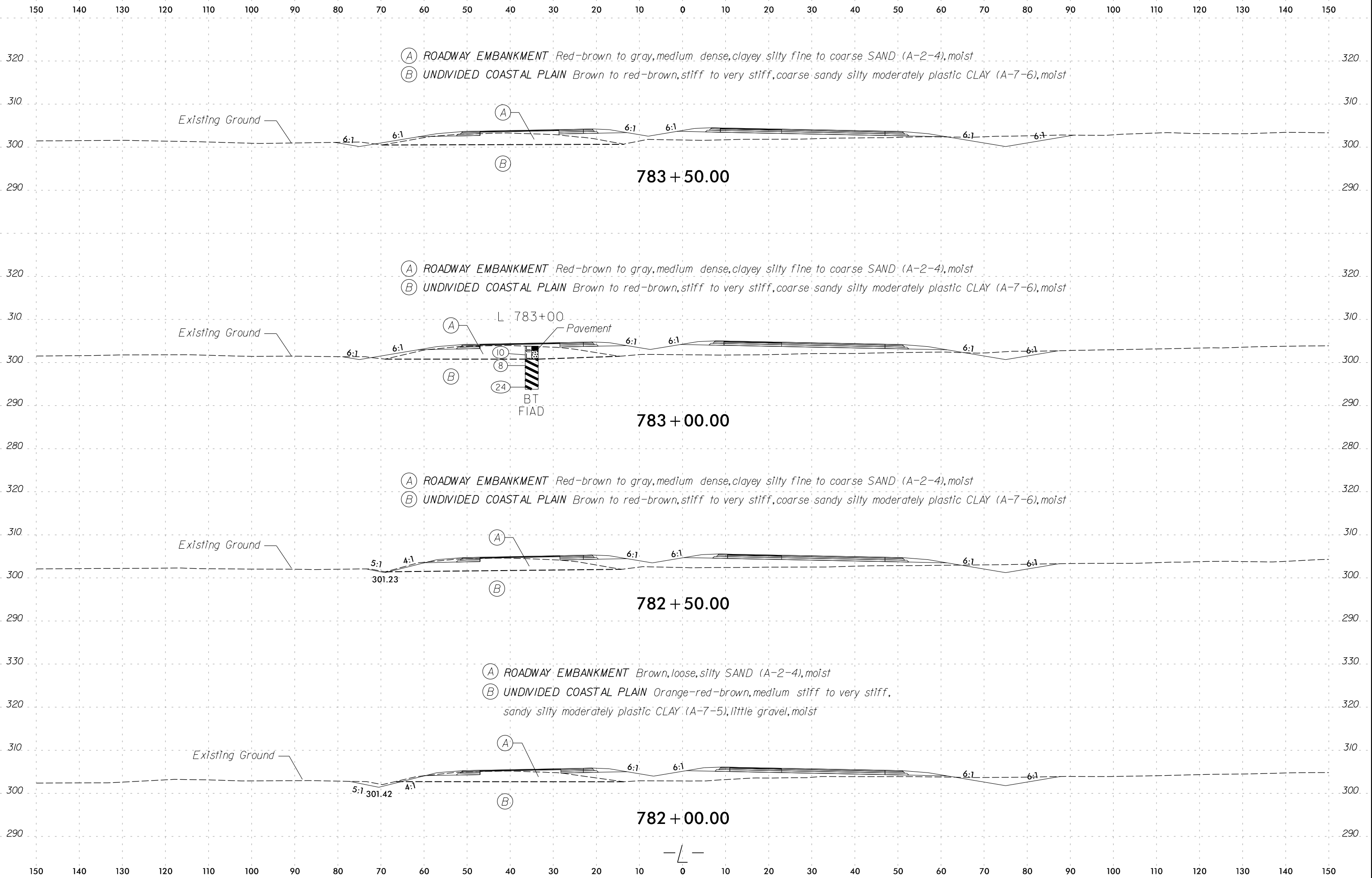


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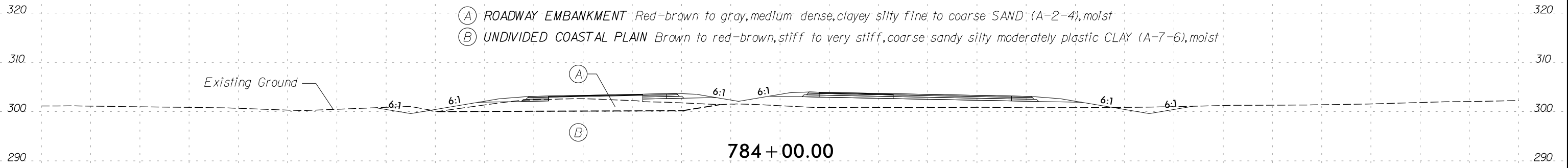
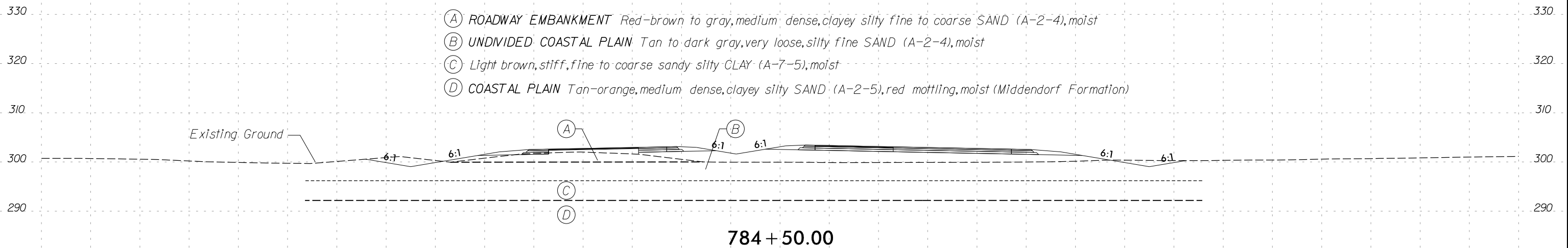
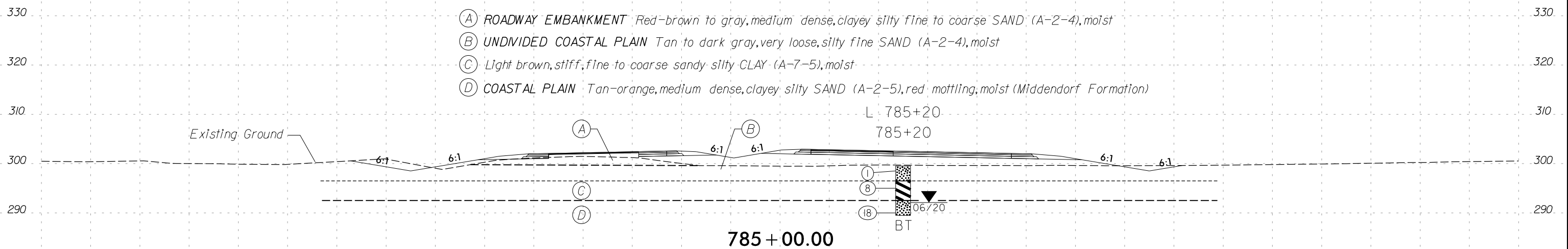


780+50.00

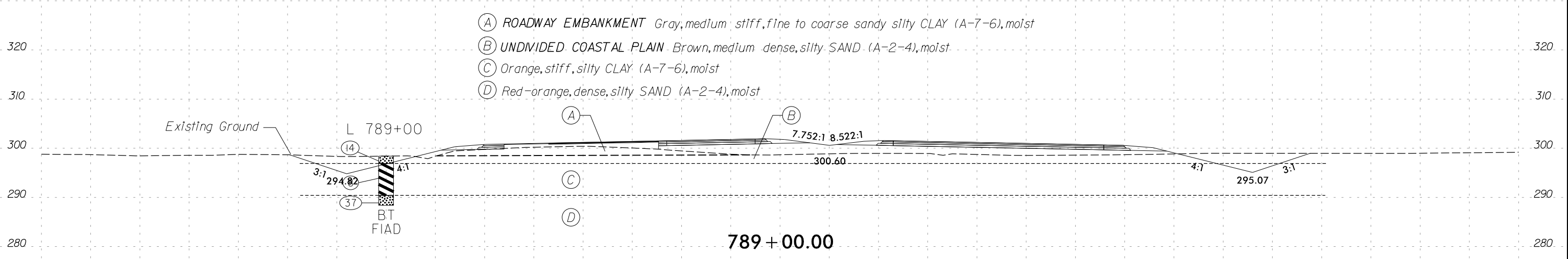
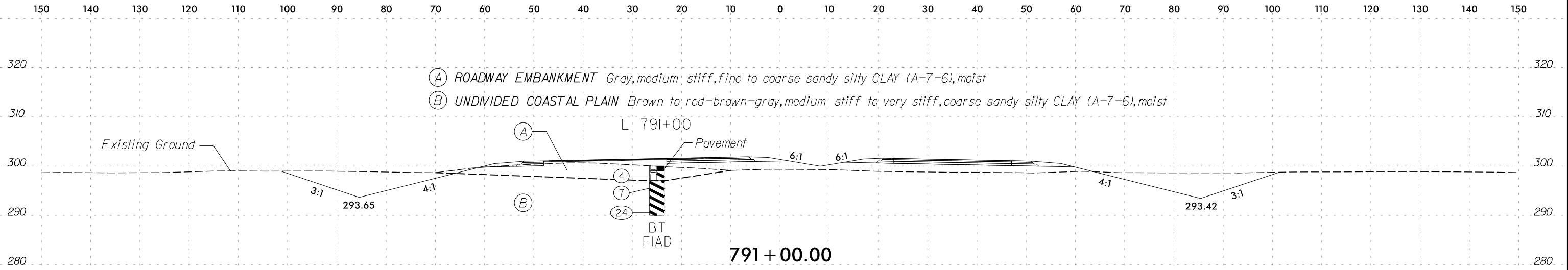




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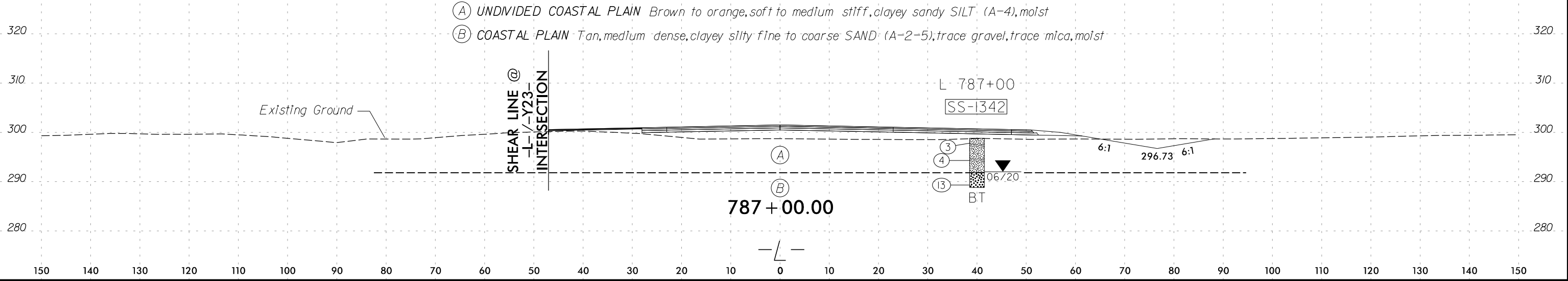


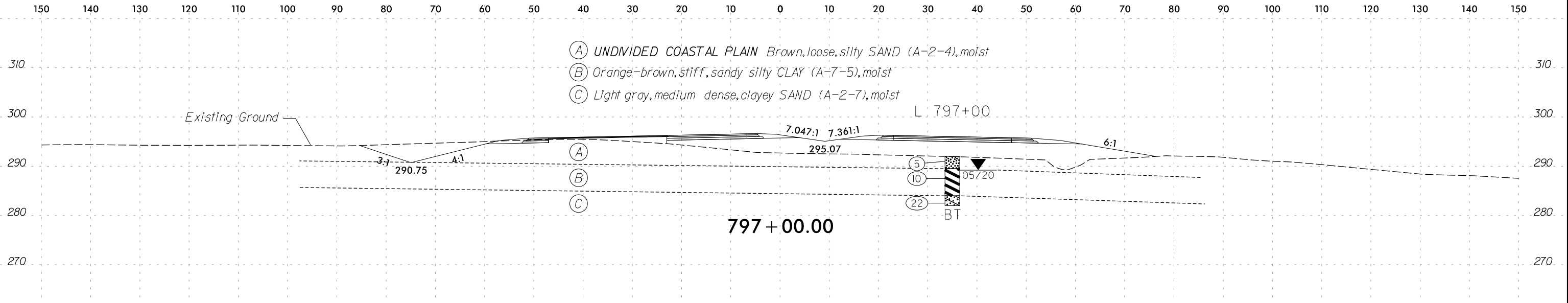
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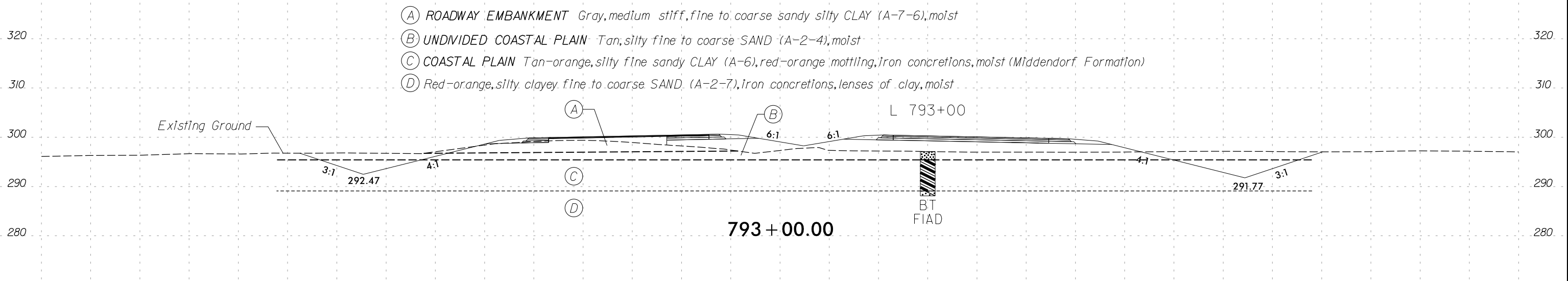
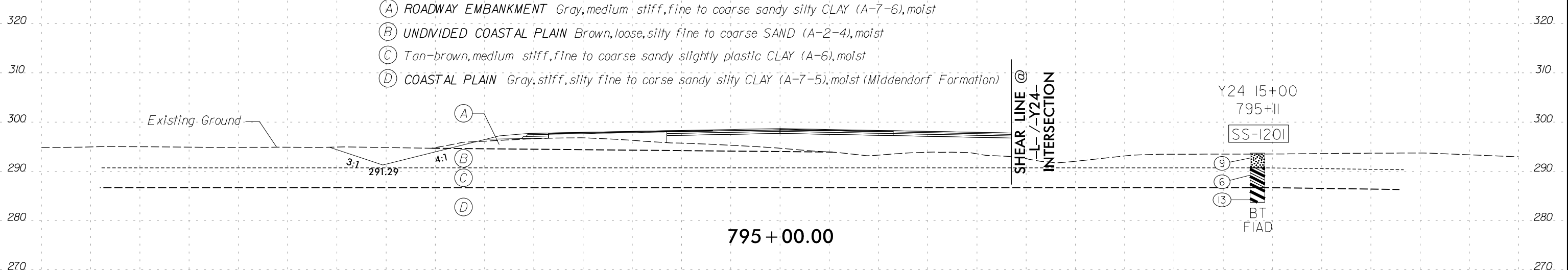
SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1342	787+00	40' RT	0.0 - 1.5	A-4(0)	28	NP	34.8	21.5	5.6	38.1	99.9	80.4	45.7	12.9	ND





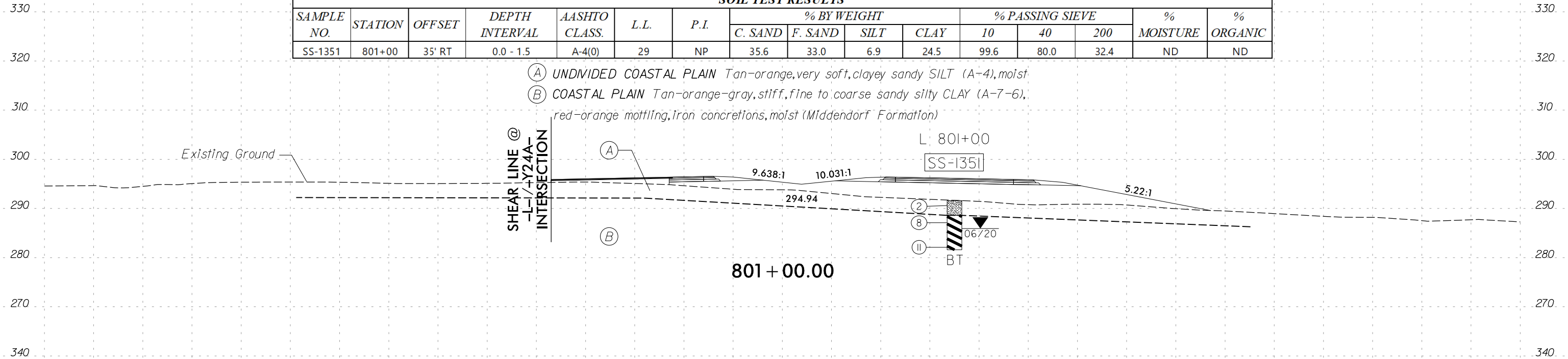
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1201	14+90	27' RT	3.5 - 5.0	A-6(1)	33	13	35.0	27.0	12.0	26.0	100.0	81.0	38.1	15.0	ND



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

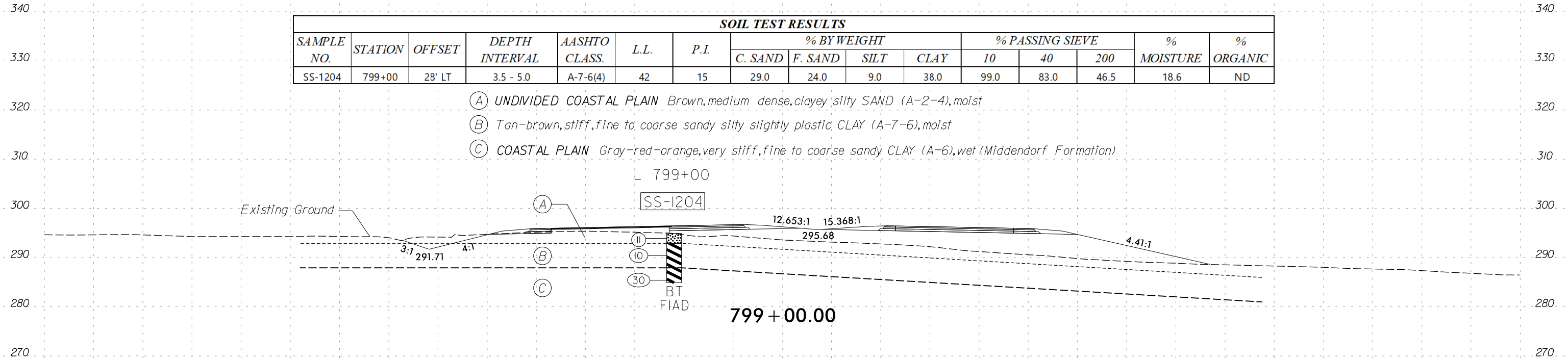
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1351	801+00	35' RT	0.0 - 1.5	A-4(0)	29	NP	35.6	33.0	6.9	24.5	99.6	80.0	32.4	ND	ND

- (A) UNDIVIDED COASTAL PLAIN Tan-orange, very soft, clayey sandy SILT (A-4), moist
- (B) COASTAL PLAIN Tan-orange-gray, stiff, fine to coarse sandy silty CLAY (A-7-6), red-orange mottling, iron concretions, moist (Middendorf Formation)



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1204	799+00	28' LT	3.5 - 5.0	A-7-6(4)	42	15	29.0	24.0	9.0	38.0	99.0	83.0	46.5	18.6	ND

- (A) UNDIVIDED COASTAL PLAIN Brown, medium dense, clayey silty SAND (A-2-4), moist
- (B) Tan-brown, stiff, fine to coarse sandy silty slightly plastic CLAY (A-7-6), moist
- (C) COASTAL PLAIN Gray-red-orange, very stiff, fine to coarse sandy CLAY (A-6), wet (Middendorf Formation)

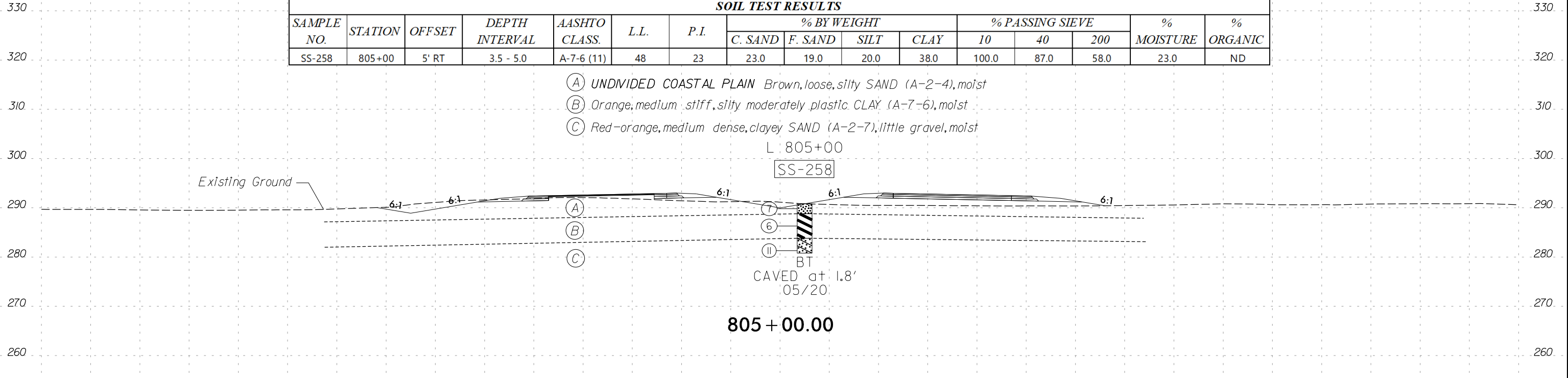


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

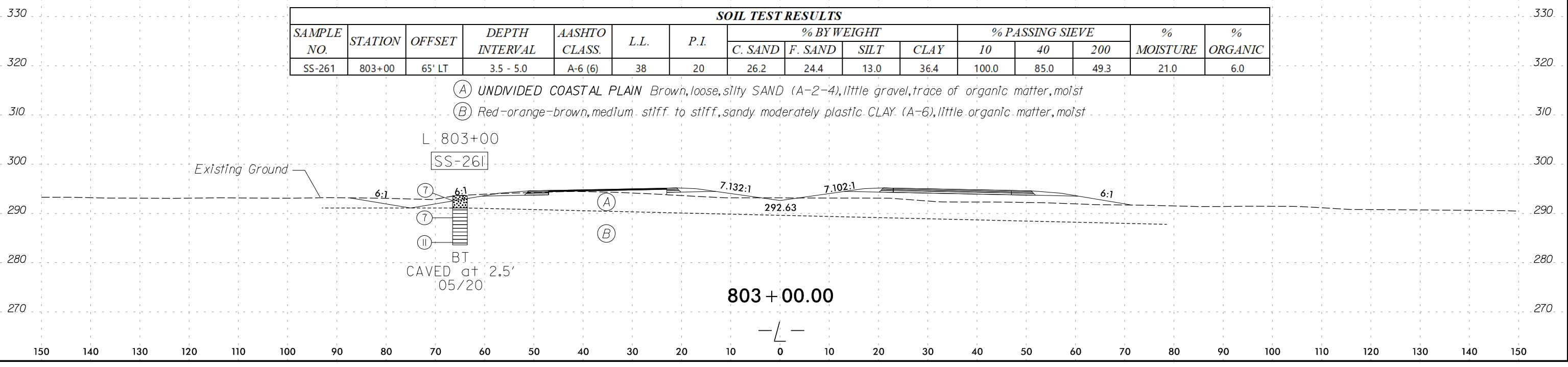
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-258	805+00	5' RT	3.5 - 5.0	A-7-6 (11)	48	23	23.0	19.0	20.0	38.0	100.0	87.0	58.0	23.0	ND

- (A) UNDIVIDED COASTAL PLAIN Brown, loose, silty SAND (A-2-4), moist
- (B) Orange, medium stiff, silty moderately plastic CLAY (A-7-6), moist
- (C) Red-orange, medium dense, clayey SAND (A-2-7), little gravel, moist



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-261	803+00	65' LT	3.5 - 5.0	A-6 (6)	38	20	26.2	24.4	13.0	36.4	100.0	85.0	49.3	21.0	6.0

- (A) UNDIVIDED COASTAL PLAIN Brown, loose, silty SAND (A-2-4), little gravel, trace of organic matter, moist
- (B) Red-orange-brown, medium stiff to stiff, sandy moderately plastic CLAY (A-6), little organic matter, moist



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.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1207	807+00	30' LT	3.5 - 5.0	A-6(7)	34	19	25.0	21.0	22.0	32.0	100.0	85.0	54.1	20.1	ND

- (A) ROADWAY EMBANKMENT Brown, loose, clayey silty fine to coarse SAND (A-2-5), moist
- (B) UNDIVIDED COASTAL PLAIN Gray-brown, soft to stiff, silty fine to coarse sandy moderately plastic CLAY (A-6), moist

L: 807+00

SS-1207

BT FIAD

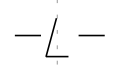
807 + 00.00

- (A) ROADWAY EMBANKMENT Brown, loose, clayey silty fine to coarse SAND (A-2-5), moist
- (B) UNDIVIDED COASTAL PLAIN Gray-brown, soft to stiff, silty fine to coarse sandy moderately plastic CLAY (A-6), moist

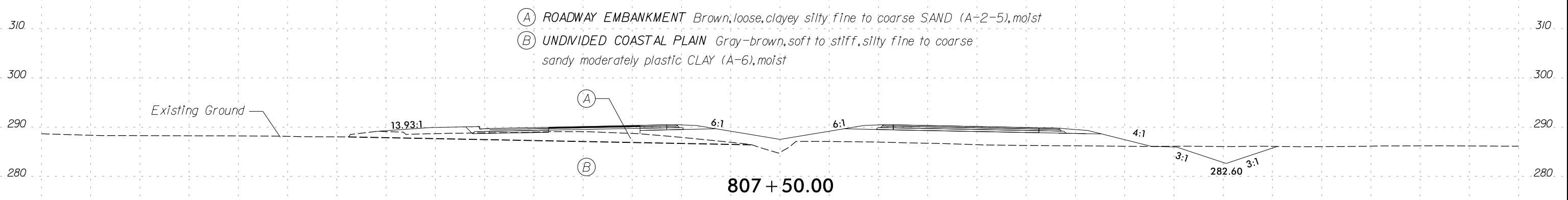
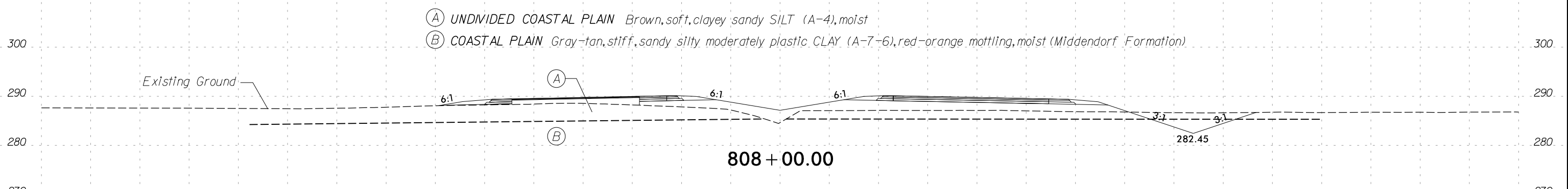
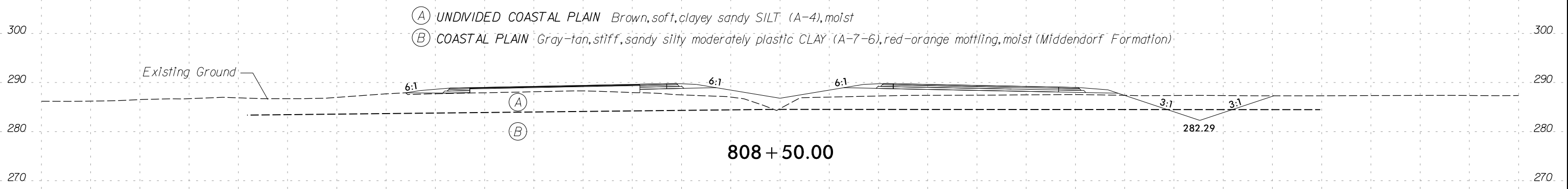
806 + 50.00

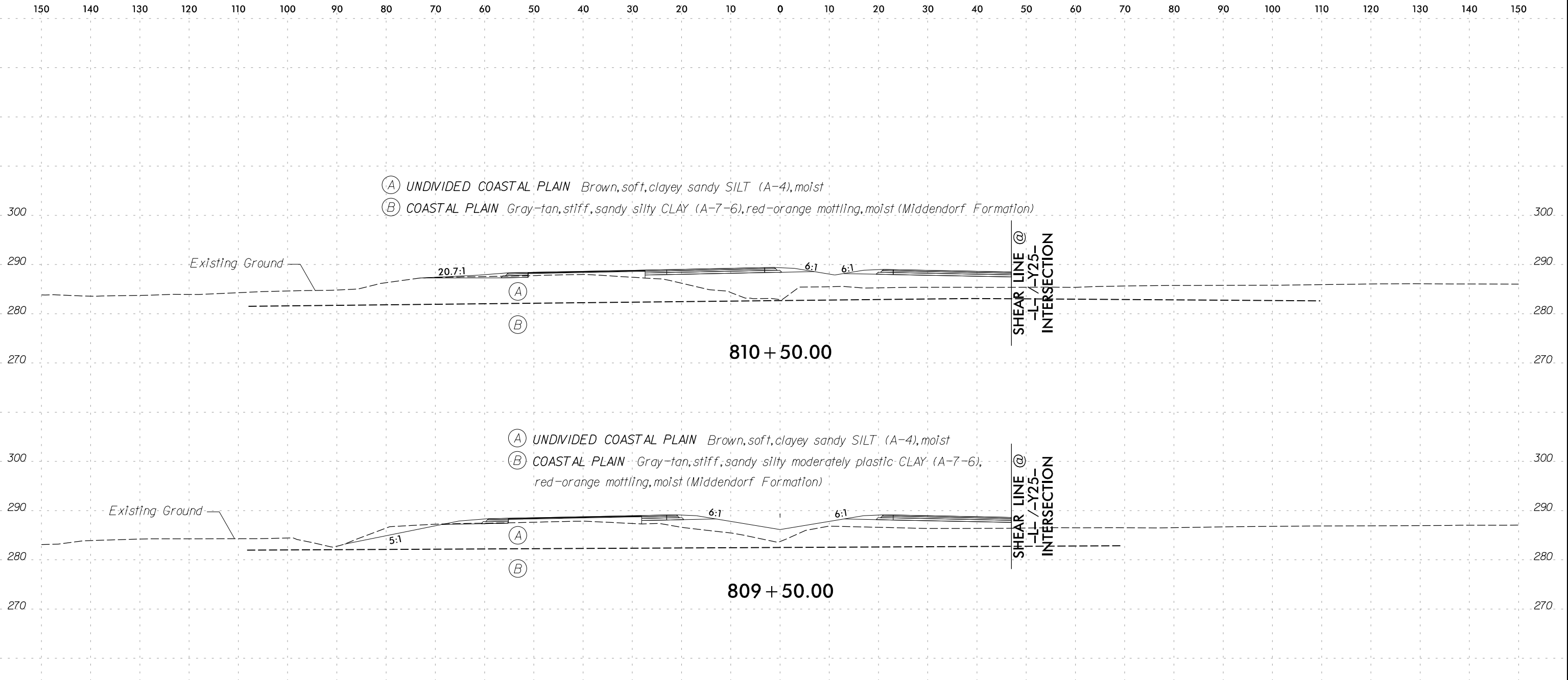
- (A) UNDIVIDED COASTAL PLAIN Brown, loose, silty SAND (A-2-4), moist
- (B) Orange, medium stiff, silty moderately plastic CLAY (A-7-6), moist
- (C) Red-orange, medium dense, clayey SAND (A-2-7), little gravel, moist

806 + 00.00

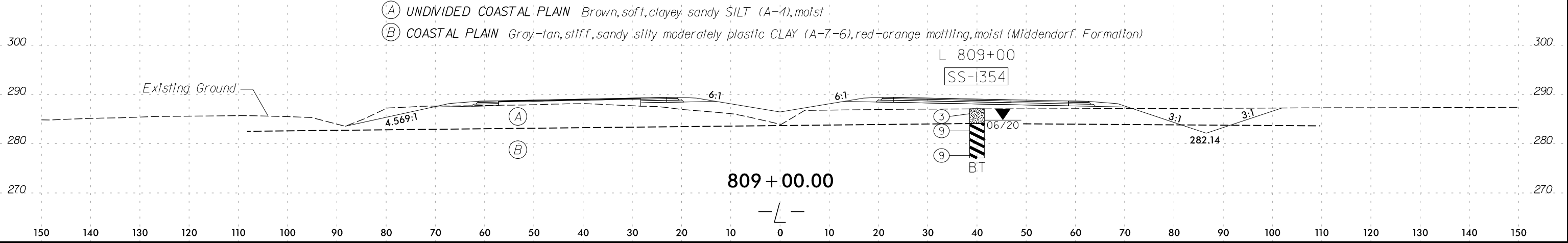


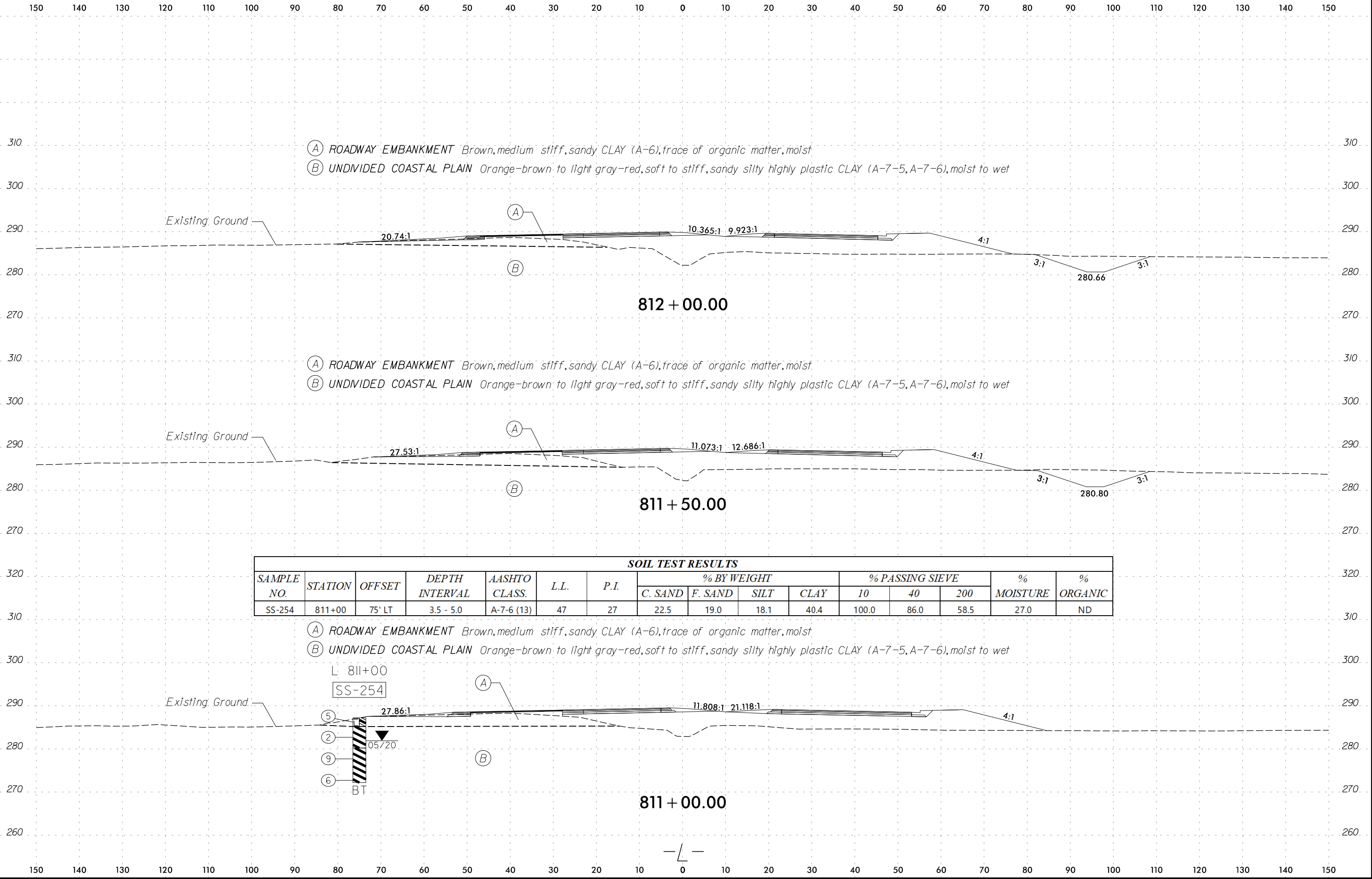
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1354	809+00	40' RT	0.0 - 1.5	A-4(0)	28	NP	29.4	23.7	12.9	34.0	99.5	80.6	48.0	9.7	ND

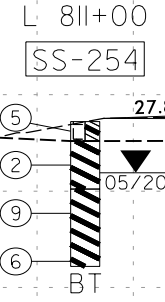


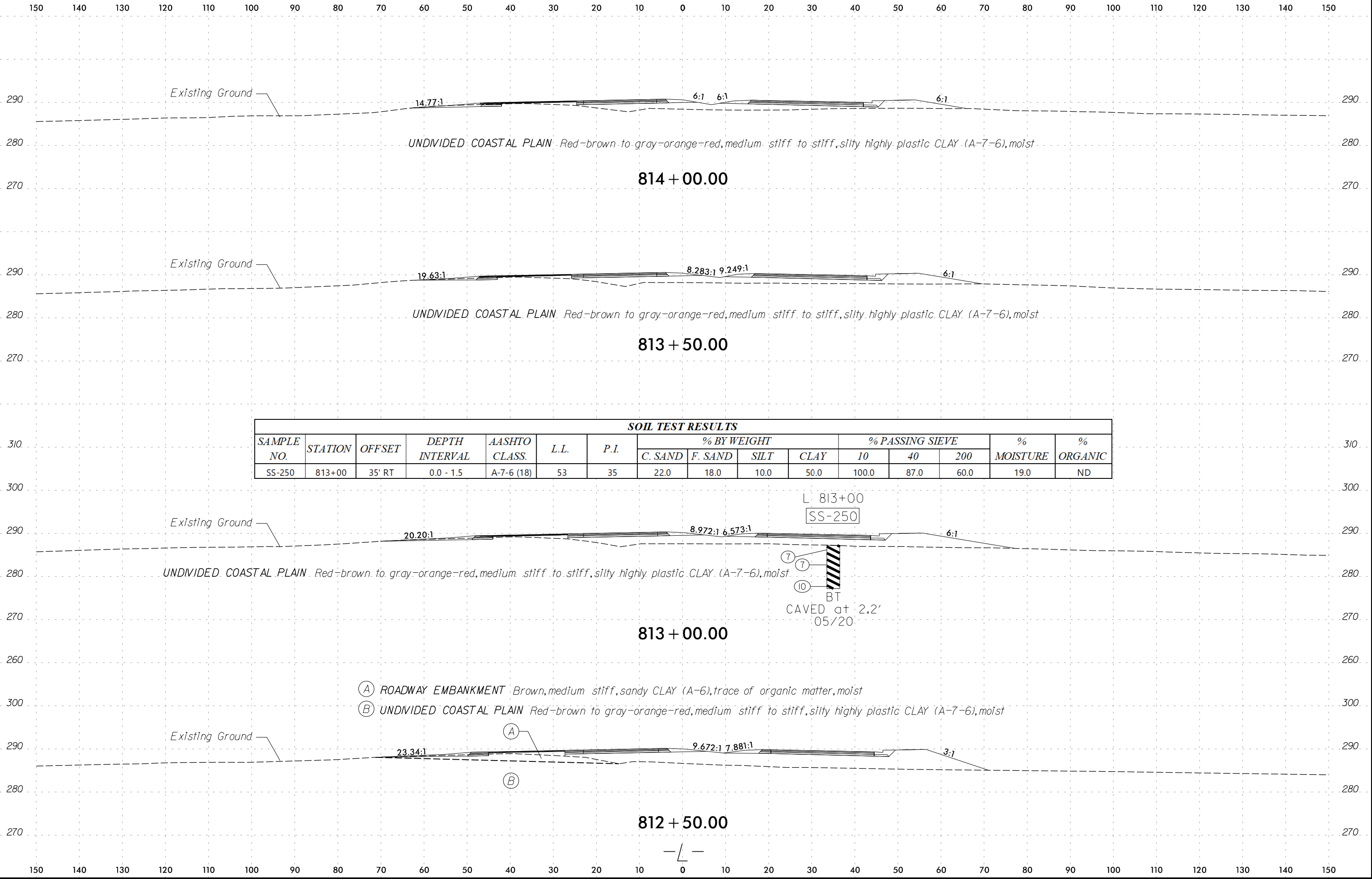


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-254	811+00	75' LT	3.5 - 5.0	A-7-6 (13)	47	27	22.5	19.0	18.1	40.4	100.0	86.0	58.5	27.0	ND

(A) ROADWAY EMBANKMENT *Brown, medium stiff, sandy CLAY (A-6), trace of organic matter, moist*

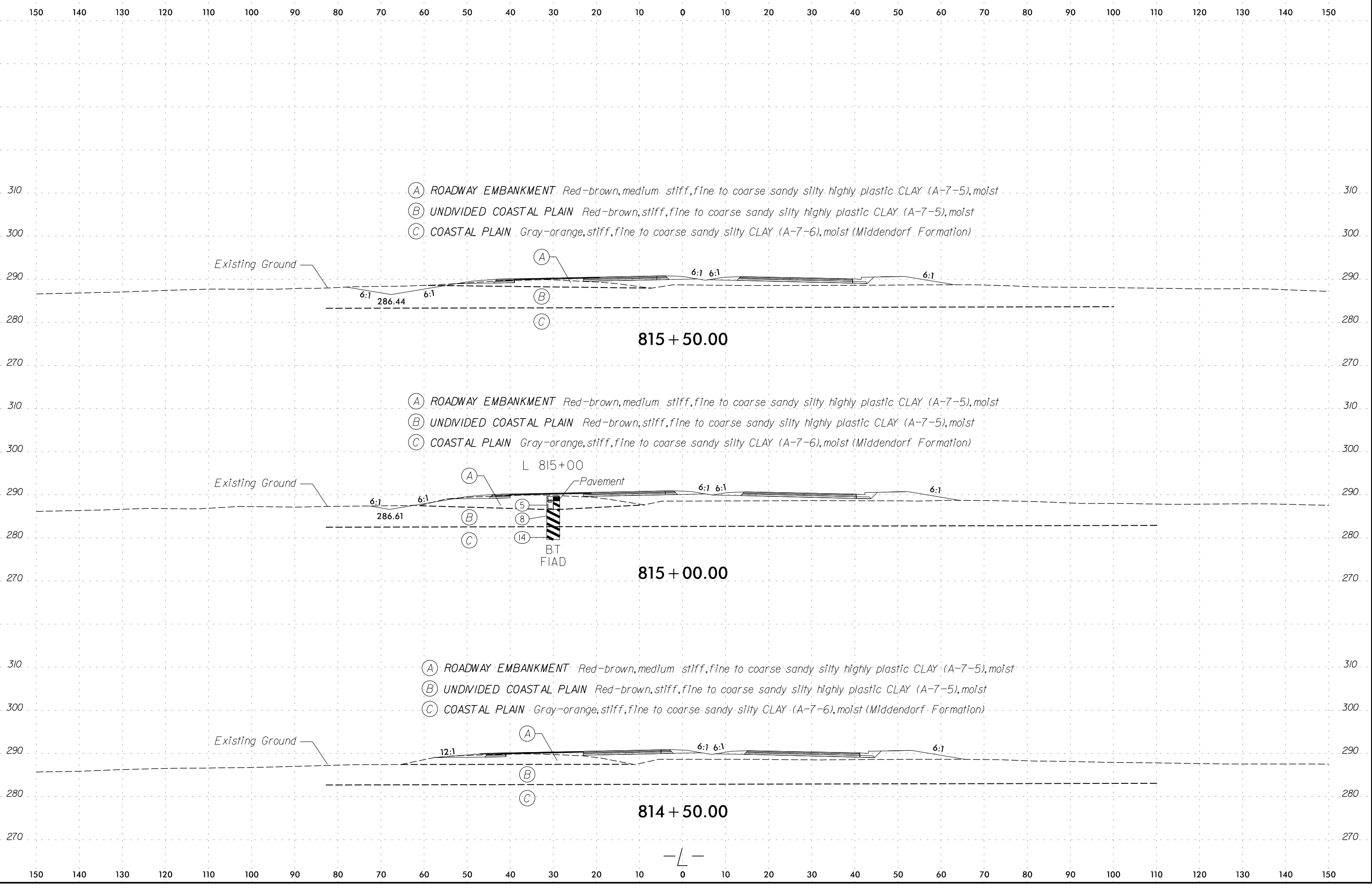
(B) UNDIVIDED COASTAL PLAIN *Orange-brown to light gray-red, soft to stiff, sandy silty highly plastic CLAY (A-7-5, A-7-6), moist to wet*



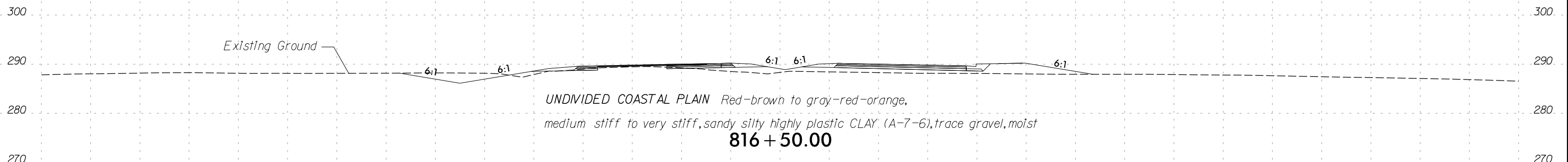
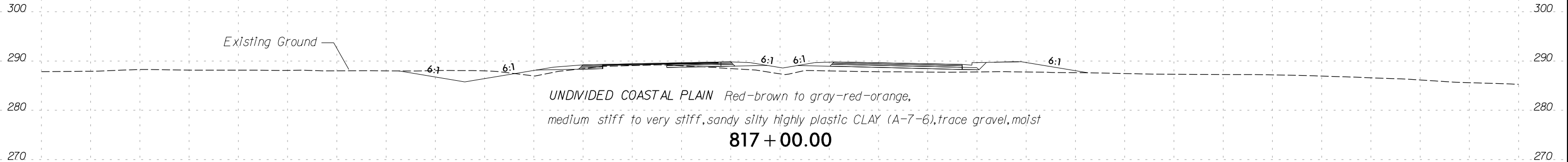


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-250	813+00	35' RT	0.0 - 1.5	A-7-6 (18)	53	35	22.0	18.0	10.0	50.0	100.0	87.0	60.0	19.0	ND

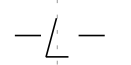
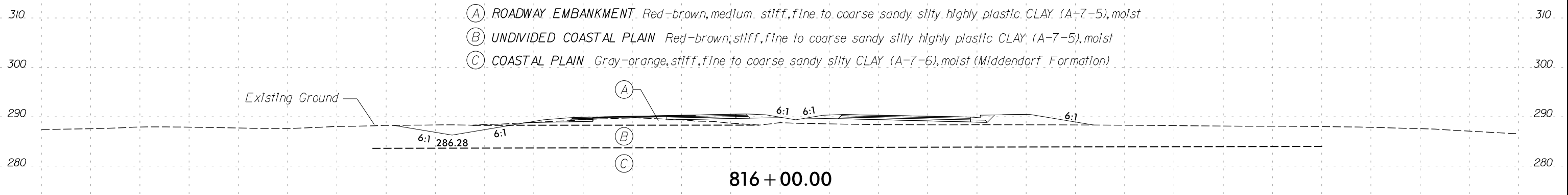
- (A) ROADWAY EMBANKMENT Brown, medium stiff, sandy CLAY (A-6), trace of organic matter, moist
- (B) UNDIVIDED COASTAL PLAIN Red-brown to gray-orange-red, medium stiff to stiff, silty highly plastic CLAY (A-7-6), moist

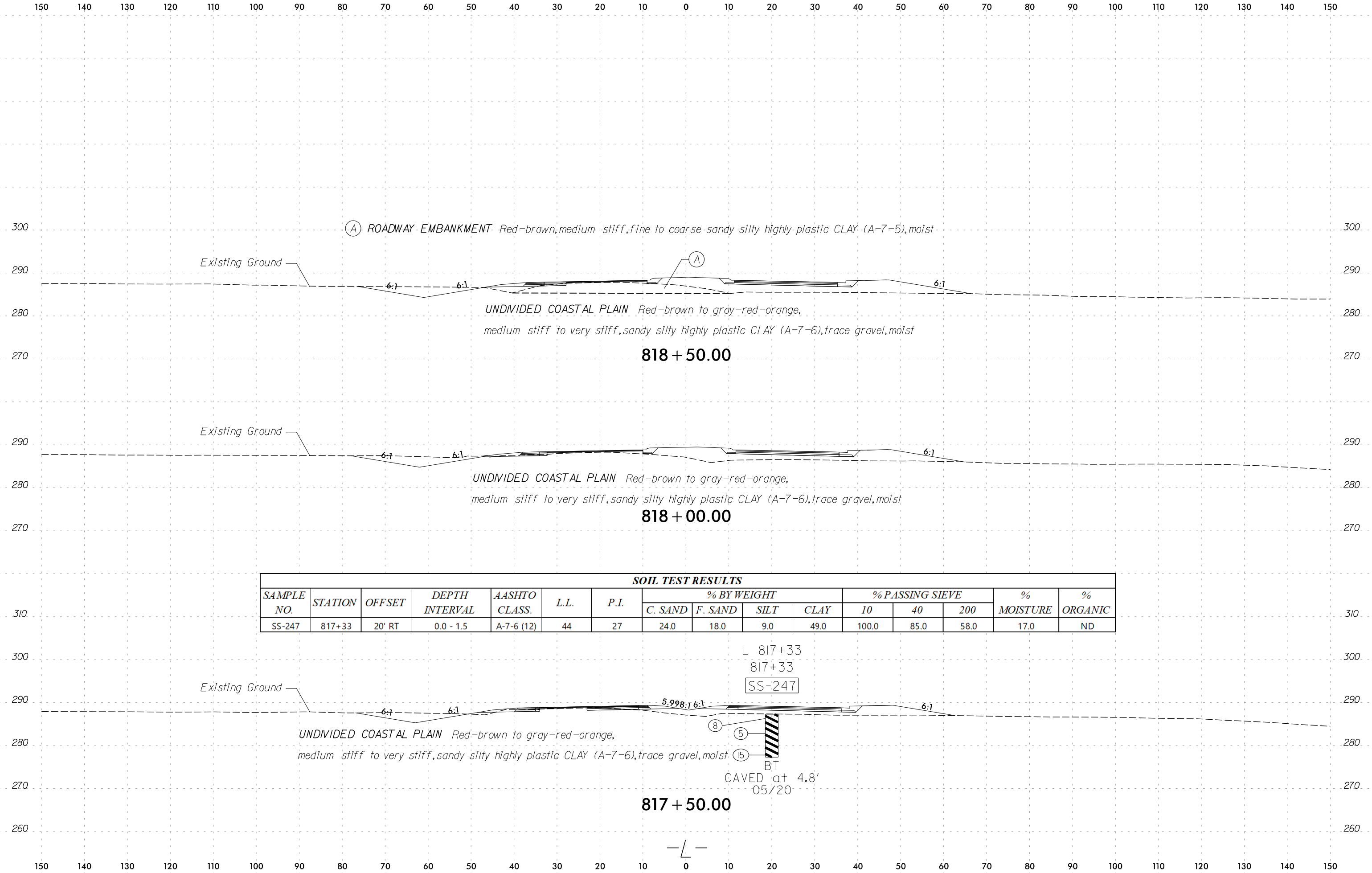


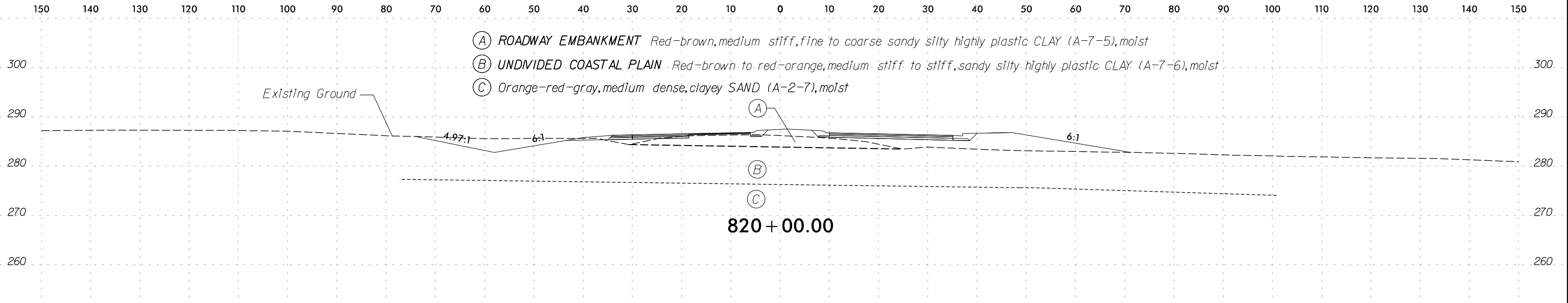
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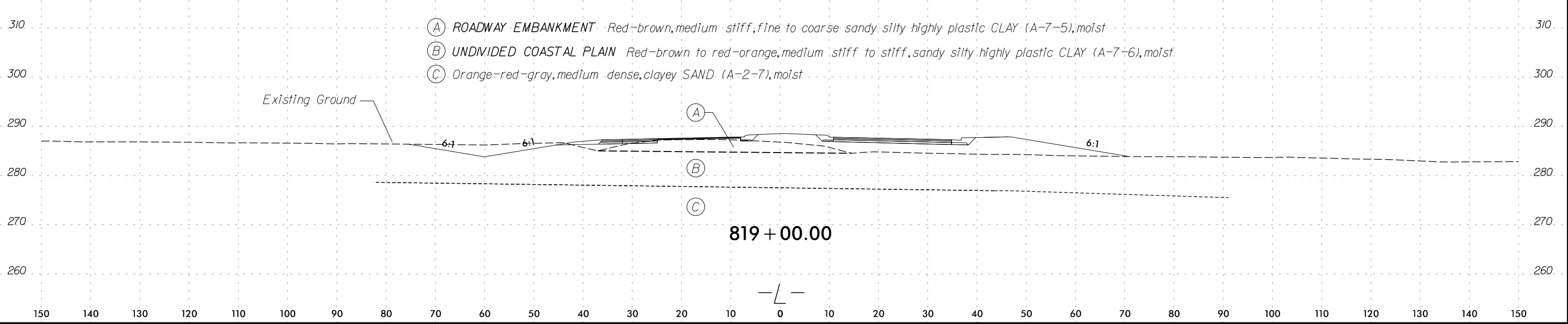
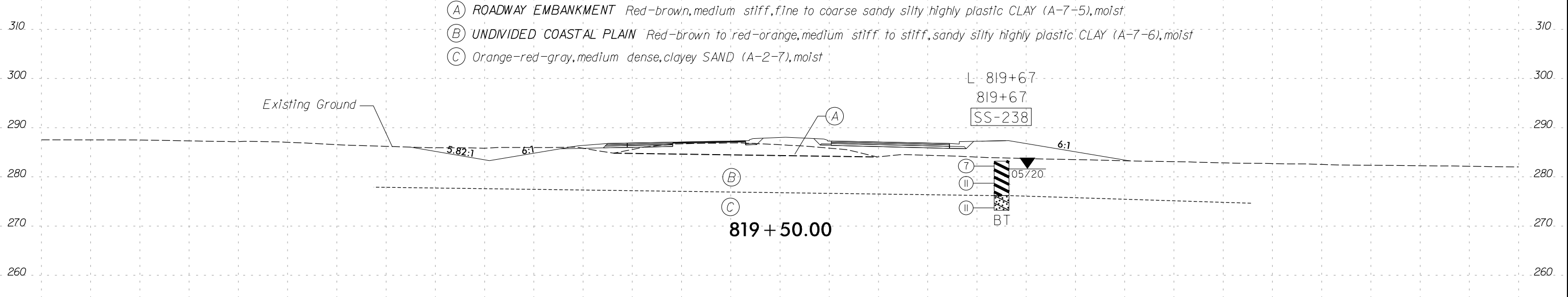
- (A) ROADWAY EMBANKMENT Red-brown, medium stiff, fine to coarse sandy silty highly plastic CLAY (A-7-5), moist
- (B) UNDIVIDED COASTAL PLAIN Red-brown, stiff, fine to coarse sandy silty highly plastic CLAY (A-7-5), moist
- (C) COASTAL PLAIN Gray-orange, stiff, fine to coarse sandy silty CLAY (A-7-6), moist (Middendorf Formation)



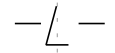
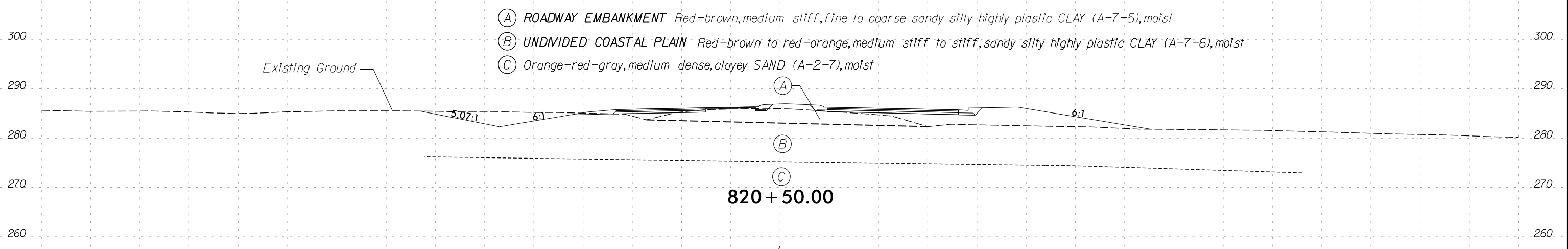
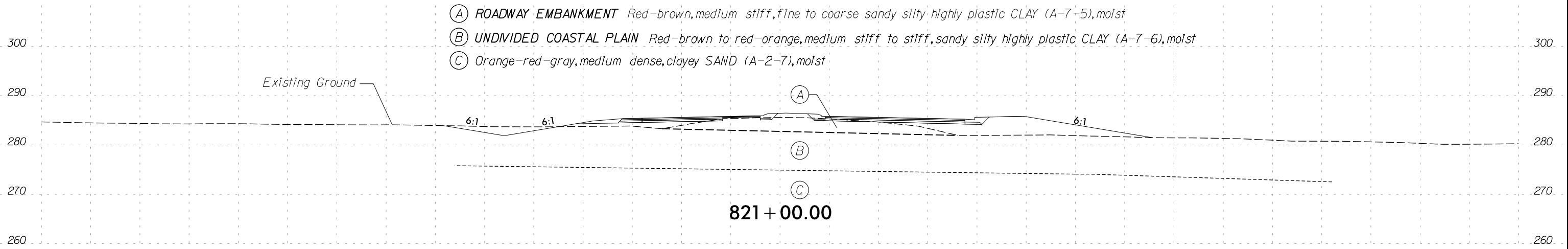
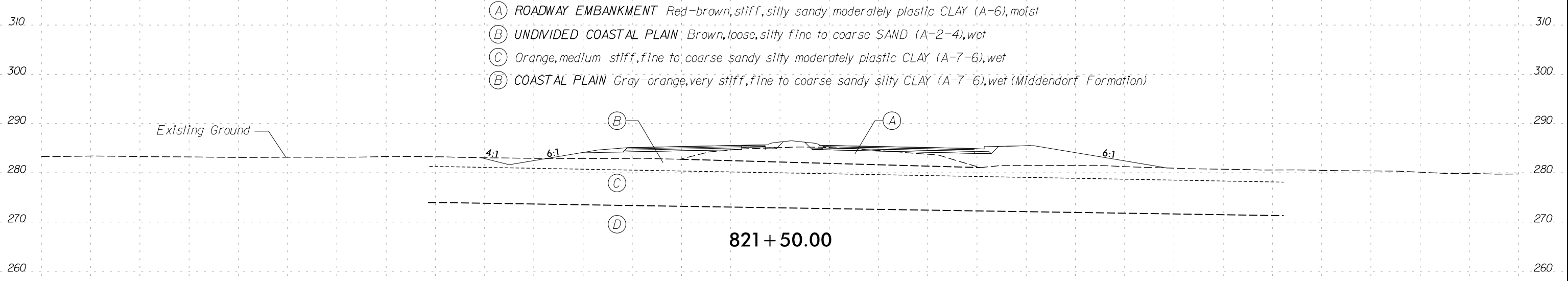




SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-238	819+67	45' RT	0.0 - 1.5	A-7-6 (18)	55	28	17.0	15.0	17.0	51.0	100.0	90.0	68.0	26.0	ND



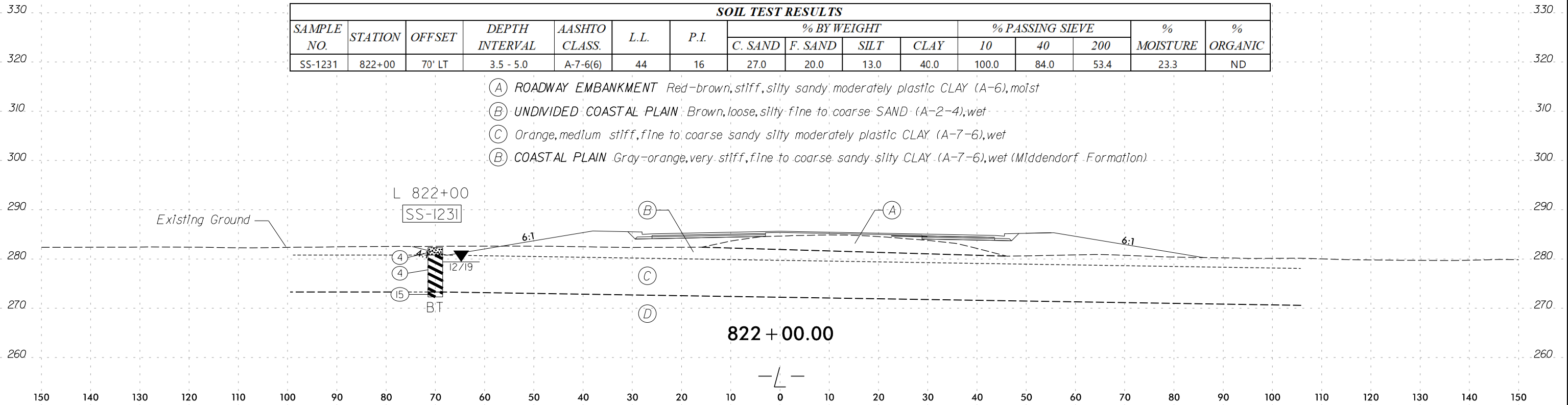
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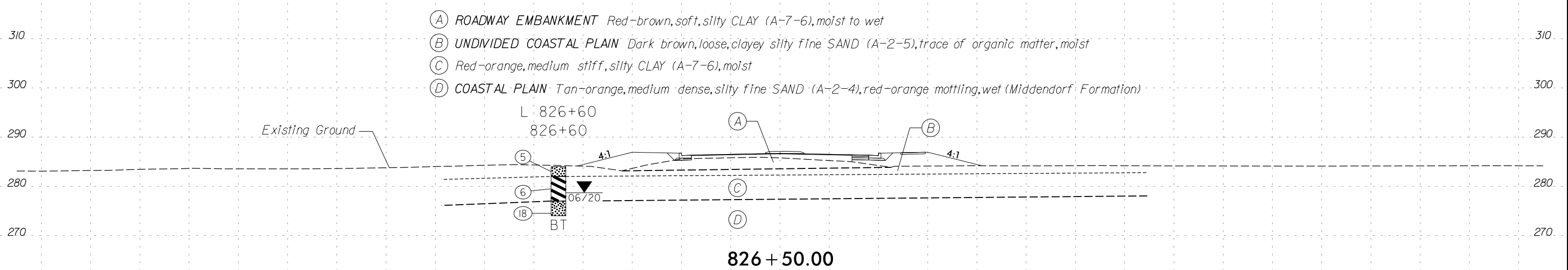
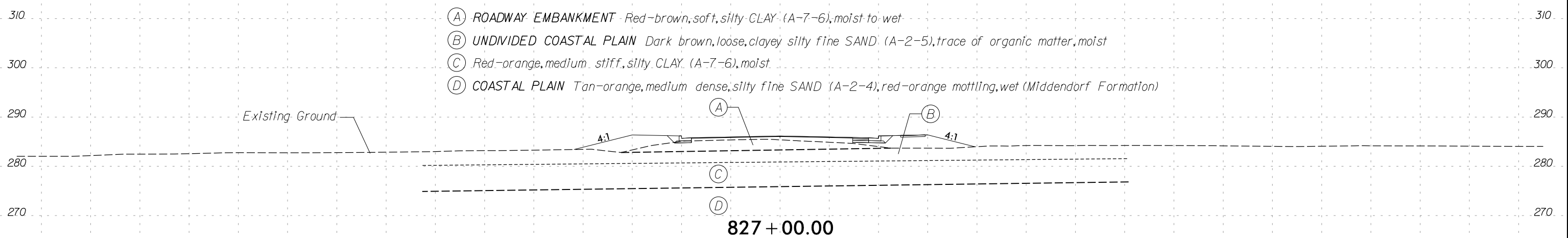
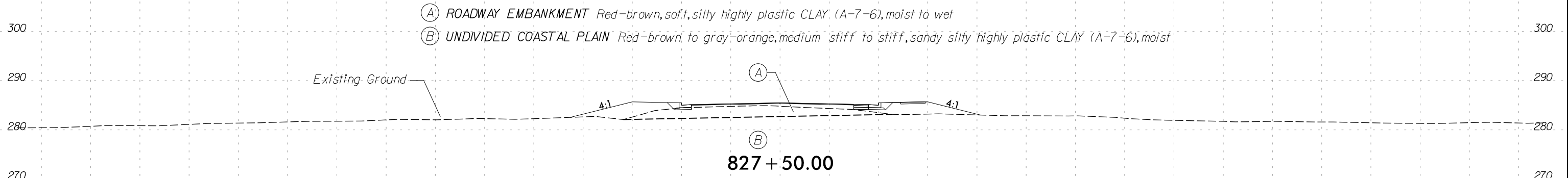
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SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1231	822+00	70' LT	3.5 - 5.0	A-7-6(6)	44	16	27.0	20.0	13.0	40.0	100.0	84.0	53.4	23.3	ND

- (A) ROADWAY EMBANKMENT Red-brown, stiff, silty sandy, moderately plastic CLAY (A-6), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, loose, silty fine to coarse SAND (A-2-4), wet
- (C) Orange, medium stiff, fine to coarse sandy silty moderately plastic CLAY (A-7-6), wet
- (D) COASTAL PLAIN Gray-orange, very stiff, fine to coarse sandy silty CLAY (A-7-6), wet (Middendorf Formation)

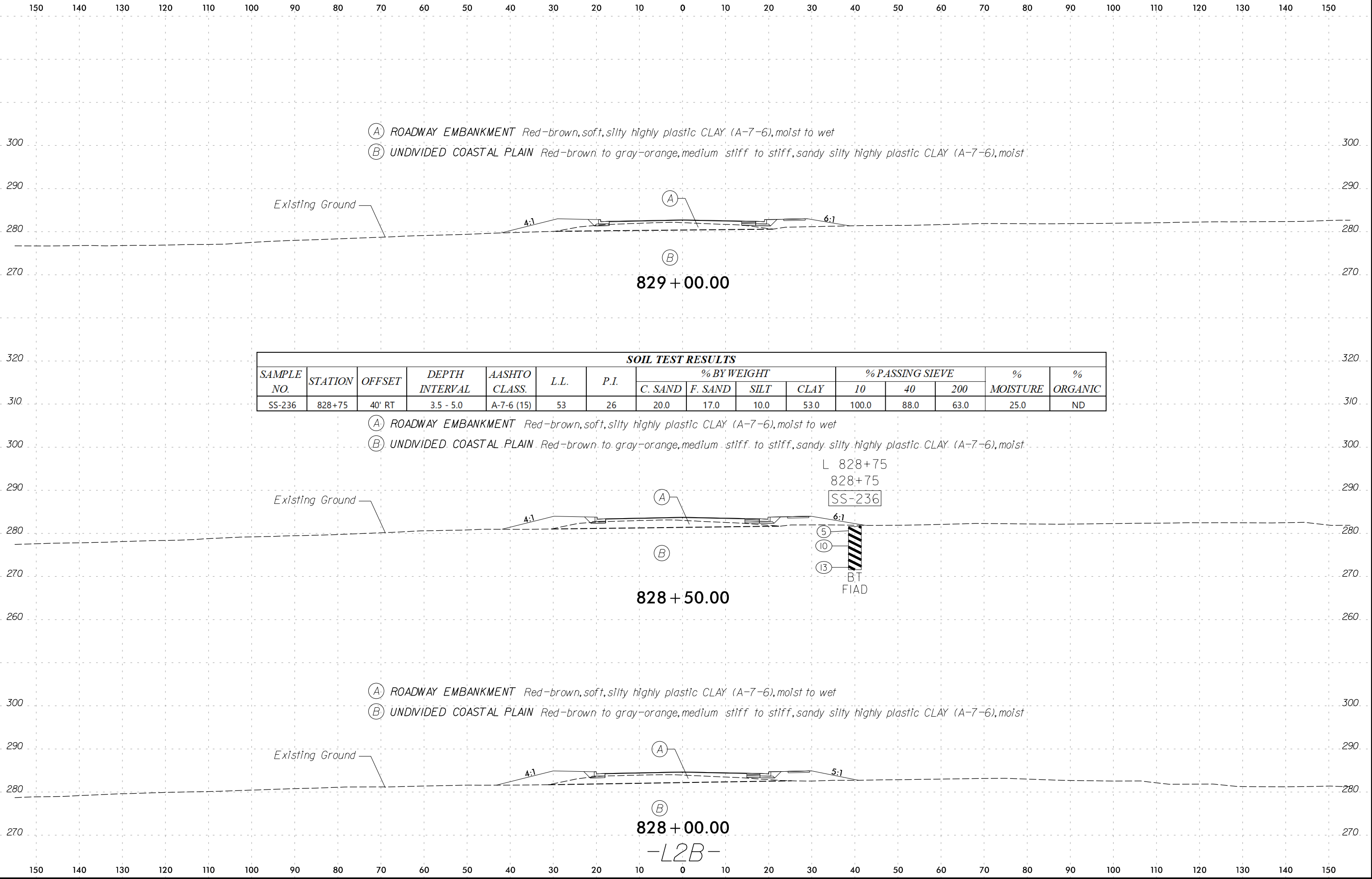


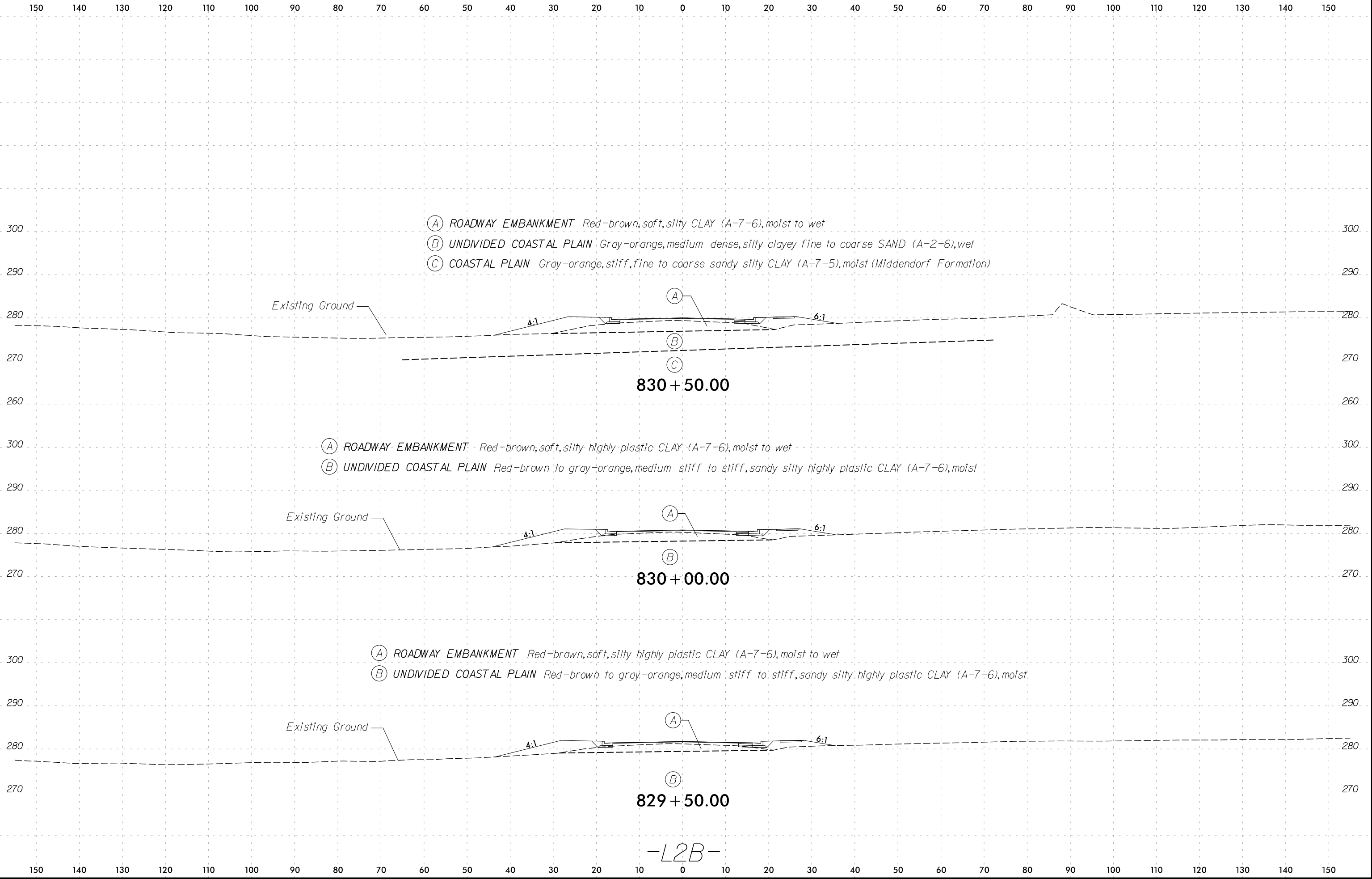
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-L2B-

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



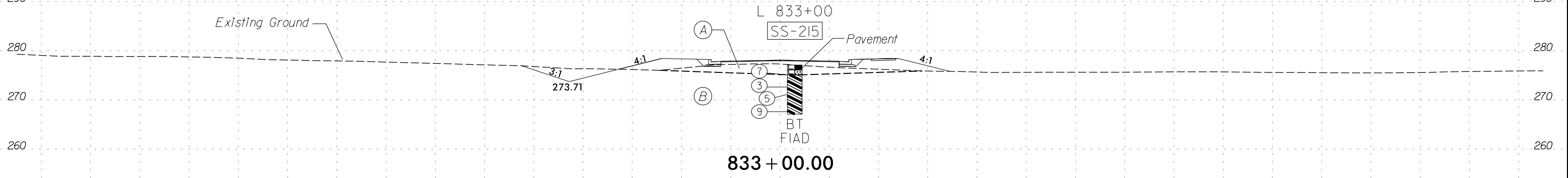


-L2B-

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

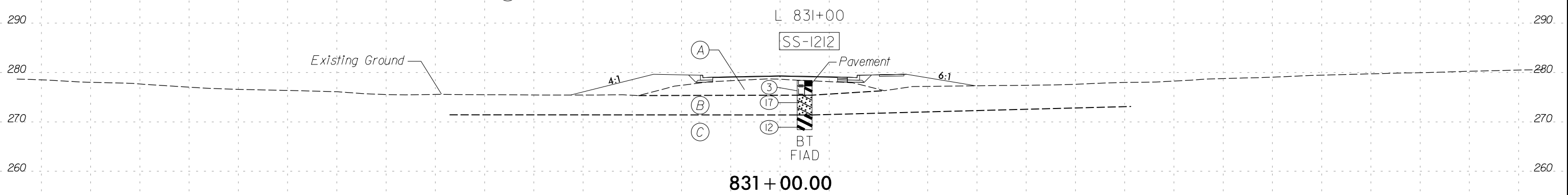
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-215	833+00	3' RT	5.0 - 6.5	A-6 (4)	29	14	24.3	24.2	31.4	20.1	100.0	87.0	51.6	15.0	ND

- (A) ROADWAY EMBANKMENT Black-brown, loose, silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown-orange to gray-orange-red, soft to stiff, silty sandy slightly plastic CLAY (A-6), moist



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1212	831+00	5' RT	1.1 - 2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND

- (A) ROADWAY EMBANKMENT Red-brown, soft, silty CLAY (A-7-6), moist to wet
- (B) UNDIVIDED COASTAL PLAIN Gray-orange, medium dense, silty clayey fine to coarse SAND (A-2-6), wet
- (C) COASTAL PLAIN Gray-orange, stiff, fine to coarse sandy silty CLAY (A-7-5), moist (Middendorf Formation)

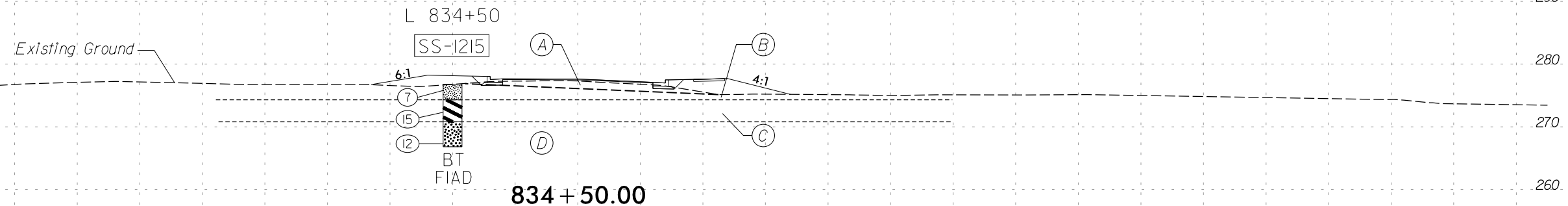


-L2B-

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.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1215	834+50	20' LT	0 - 1.5	A-4(0)	15	3	28.0	27.0	31.0	14.0	99.0	85.0	45.0	20.4	ND

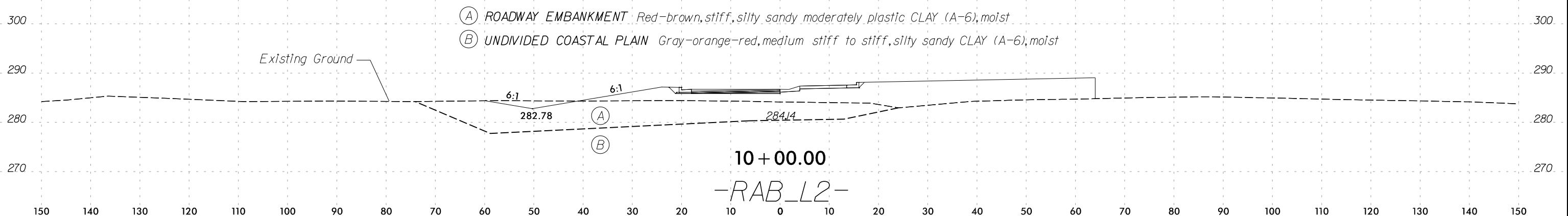
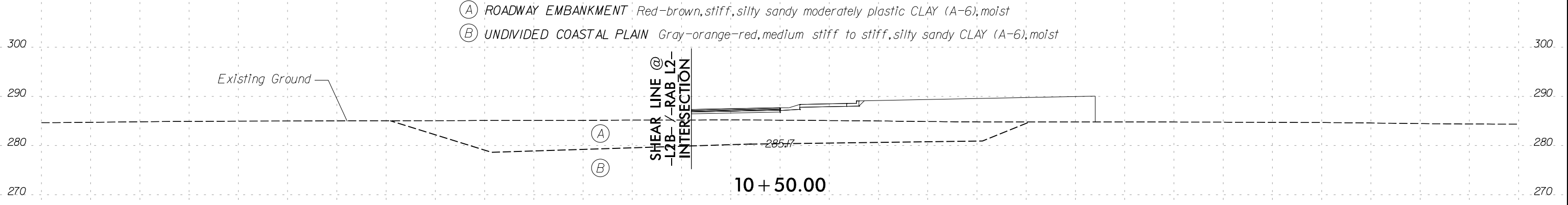
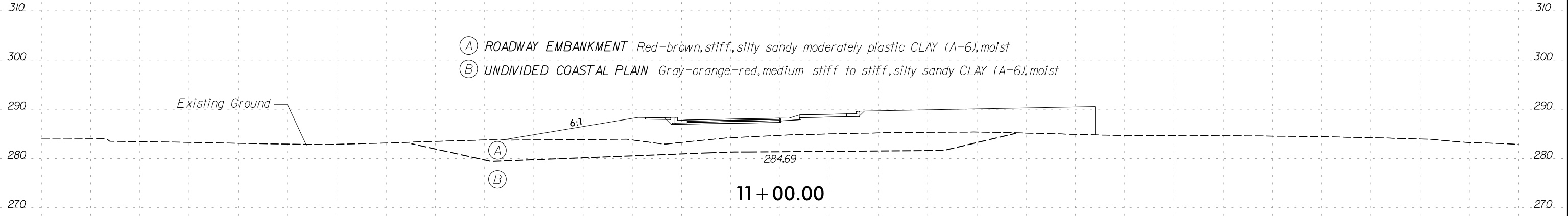
- (A) ROADWAY EMBANKMENT Black-brown, loose, silty SAND (A-2-4), moist
- (B) UNDIVIDED COASTAL PLAIN Brown, medium stiff, fine to coarse sandy SILT (A-4), moist
- (C) Orange-tan, very stiff, fine sandy silty CLAY (A-7-5), moist
- (D) Orange, medium dense, silty fine to coarse SAND (A-2-4), wet



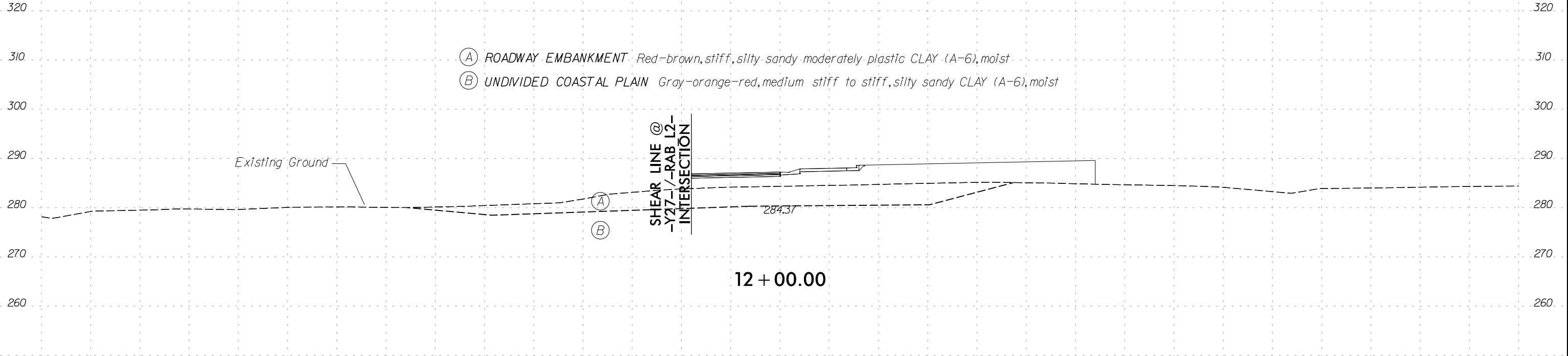
834 + 50.00

-L2B-

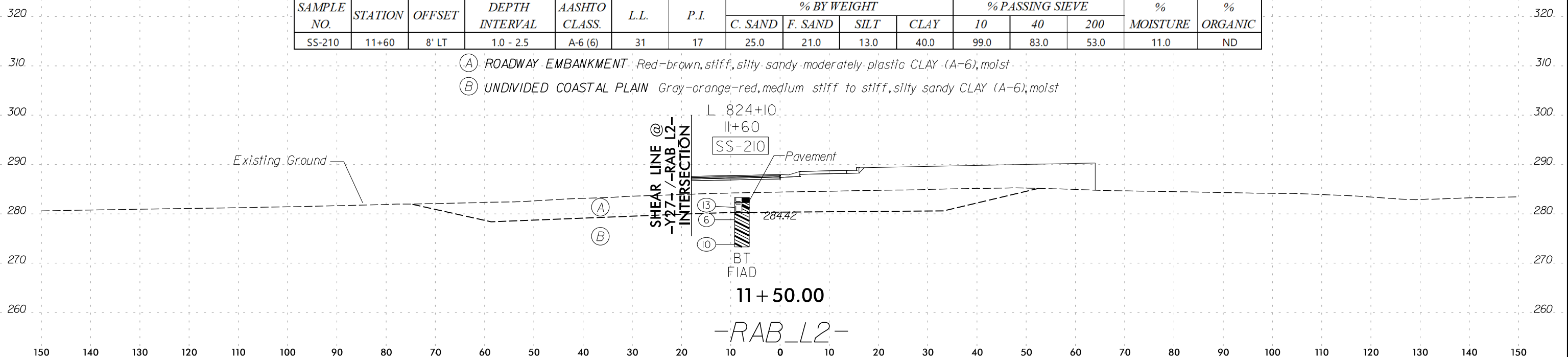
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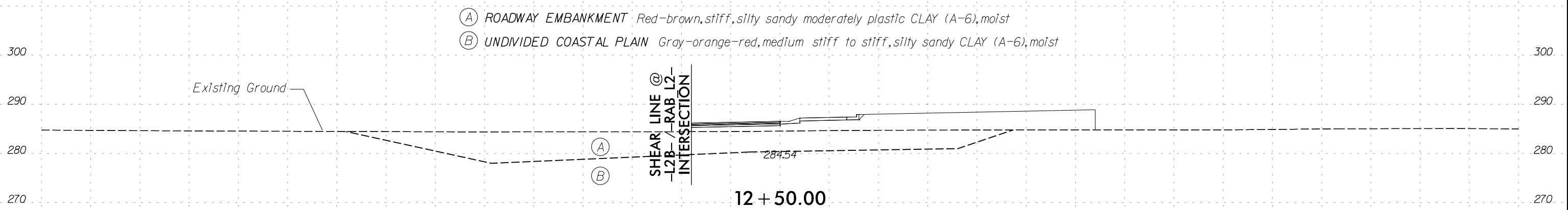
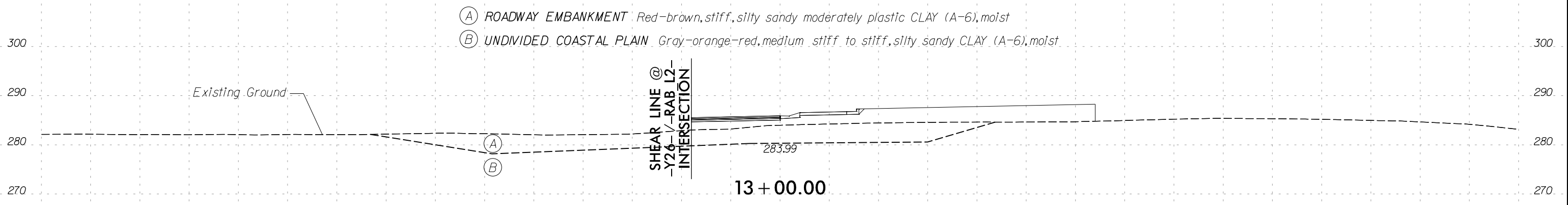
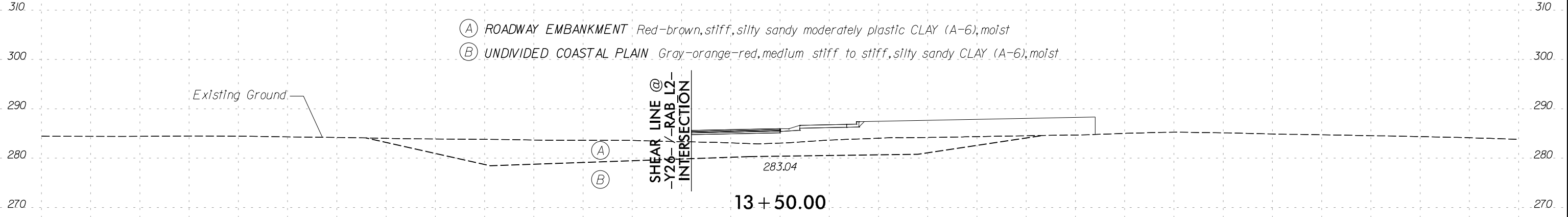
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-210	11+60	8' LT	1.0 - 2.5	A-6 (6)	31	17	25.0	21.0	13.0	40.0	99.0	83.0	53.0	11.0	ND

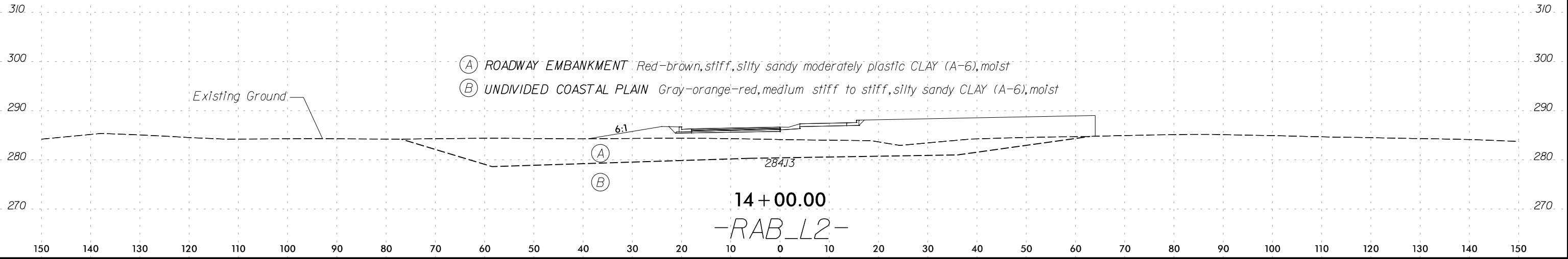


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-RAB_L2-

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) ROADWAY EMBANKMENT Red-brown, stiff, silty sandy moderately plastic CLAY (A-6), moist

(B) UNDIVIDED COASTAL PLAIN Gray-orange-red, medium stiff to stiff, silty sandy CLAY (A-6), moist

Existing Ground

6:1

(A)

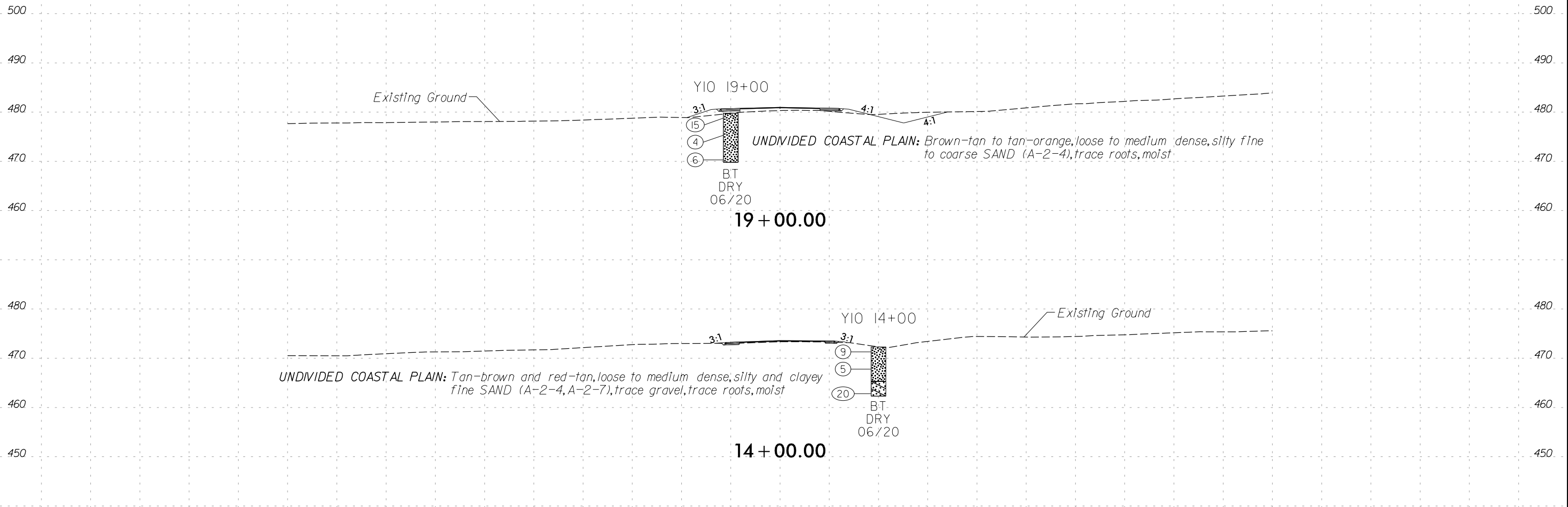
(B)

284.13

14 + 00.00

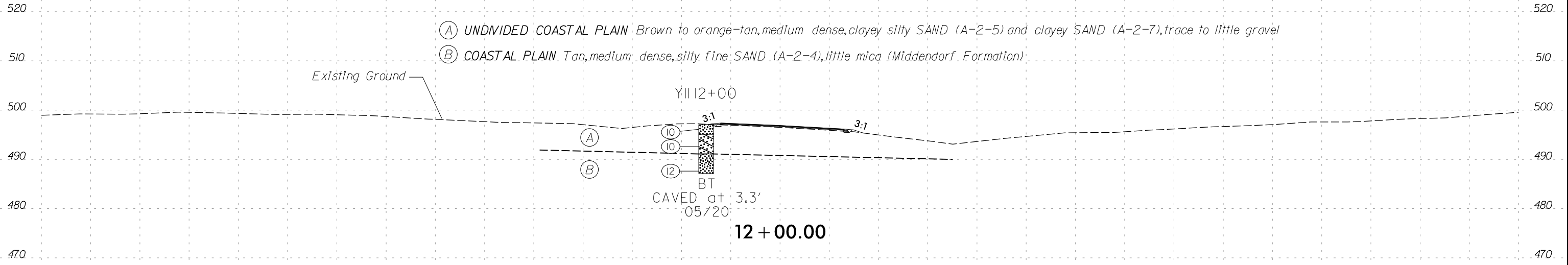
-RAB_L2-

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

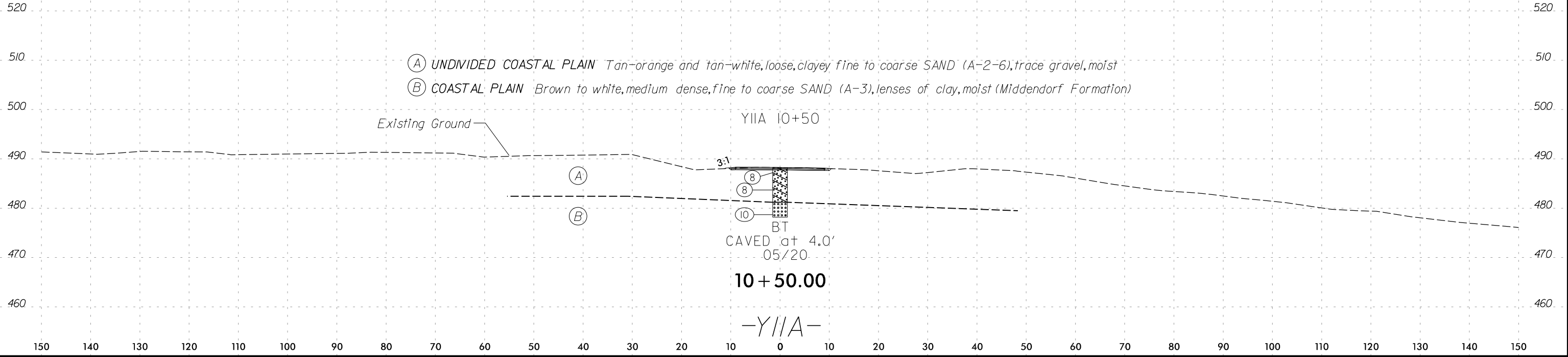


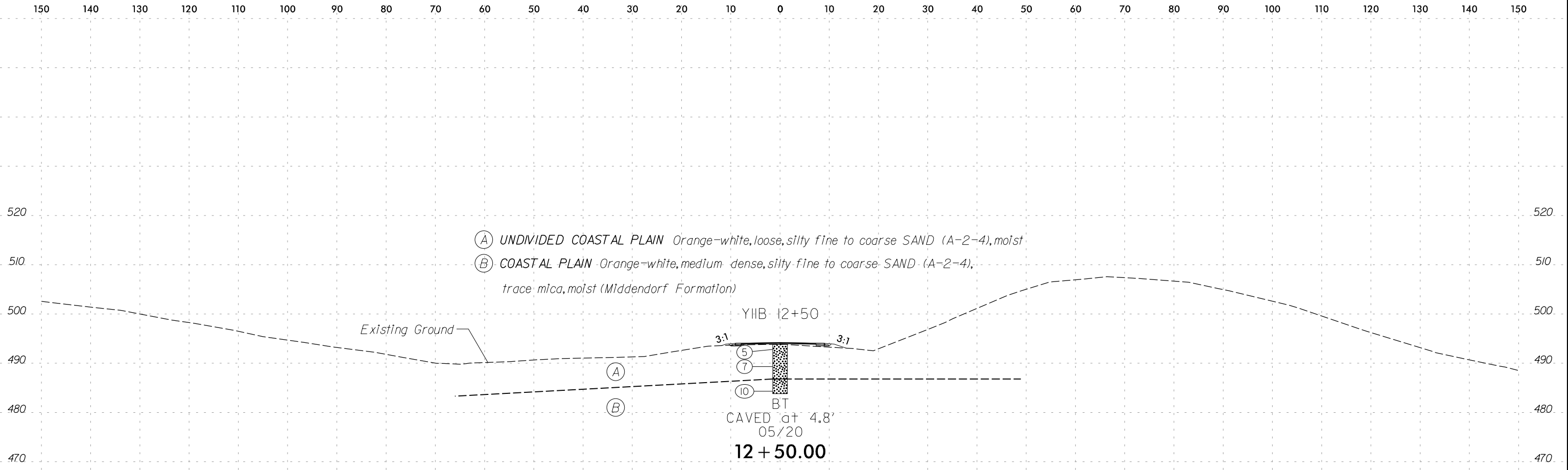
-Y10-

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

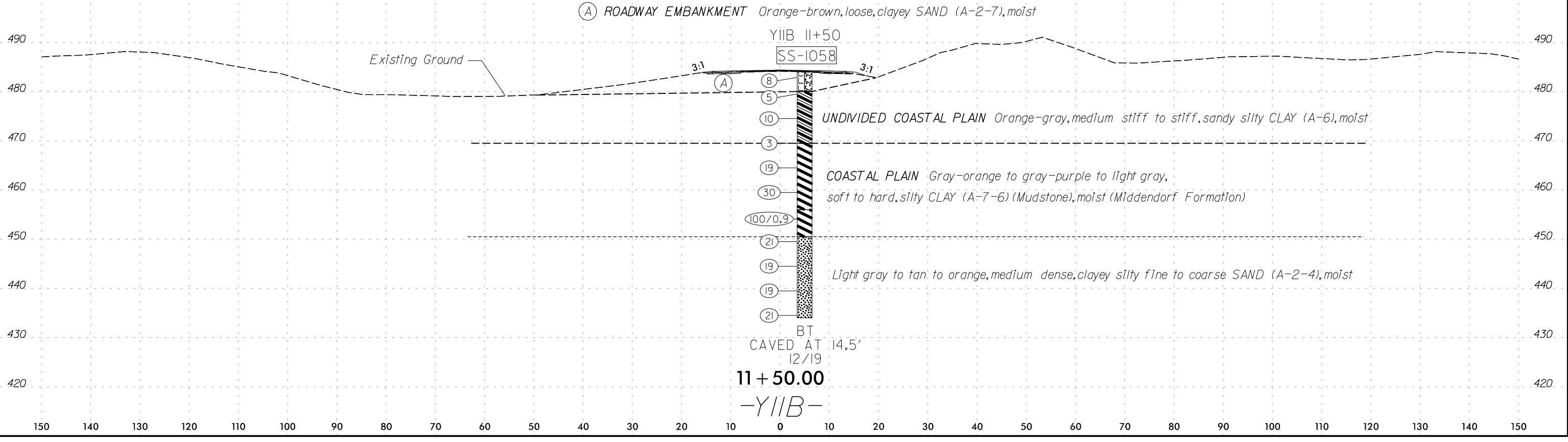


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

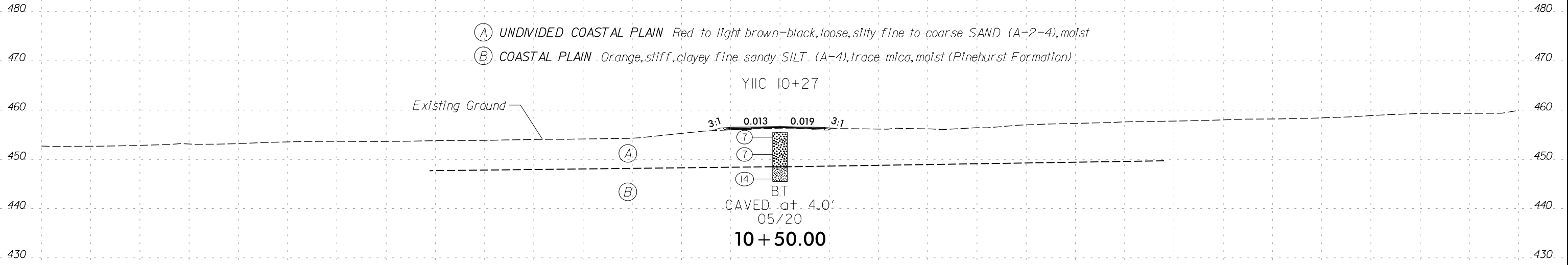




SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1058	11+50	5' RT	13.5 - 15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	ND



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



- (A) *UNDIVIDED COASTAL PLAIN Red to light brown-black, loose, silty fine to coarse SAND (A-2-4), moist*
- (B) *COASTAL PLAIN Orange, stiff, clayey fine sandy SILT (A-4), trace mica, moist (Pinehurst Formation)*

Existing Ground

YIIC 10+27

3:1 0.013 0.019 3:1

(7)

(7)

(14)

BT

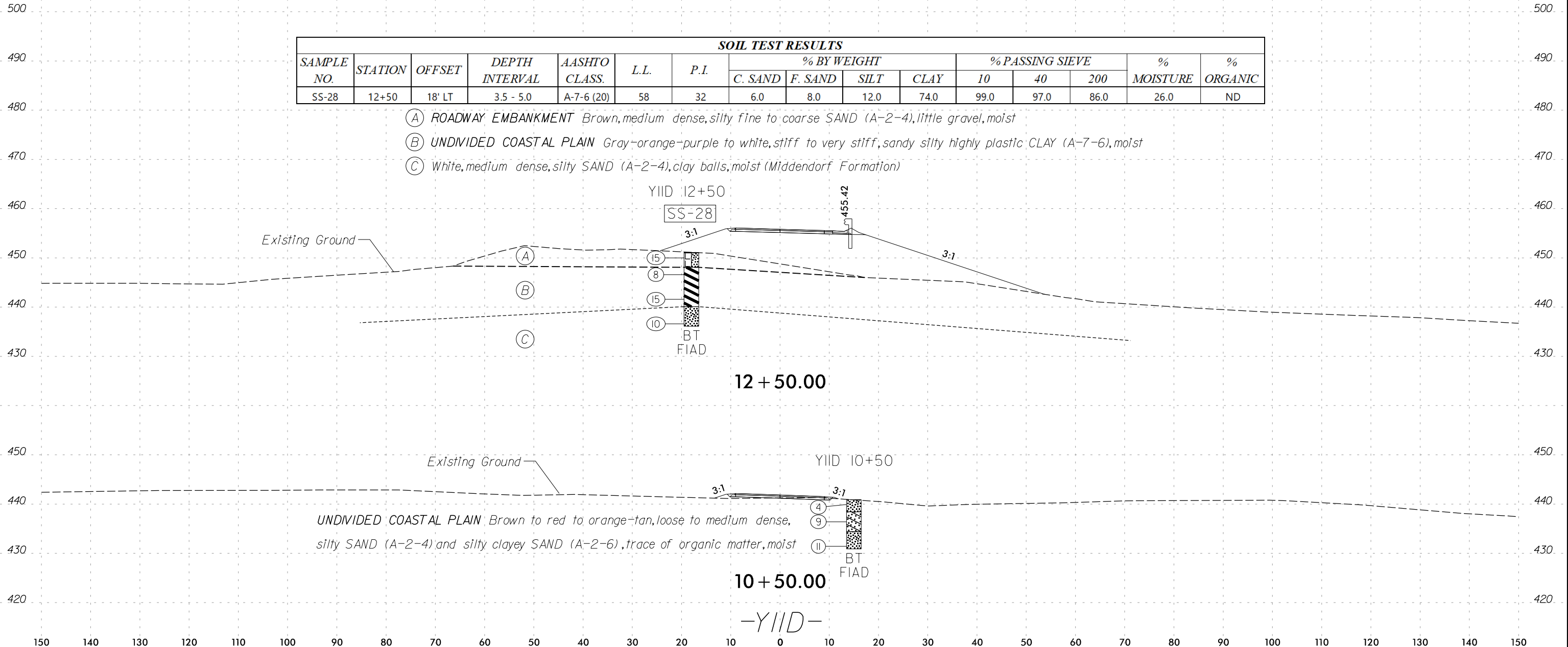
CAVED at 4.0'

05/20

10+50.00

-YIIC-

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



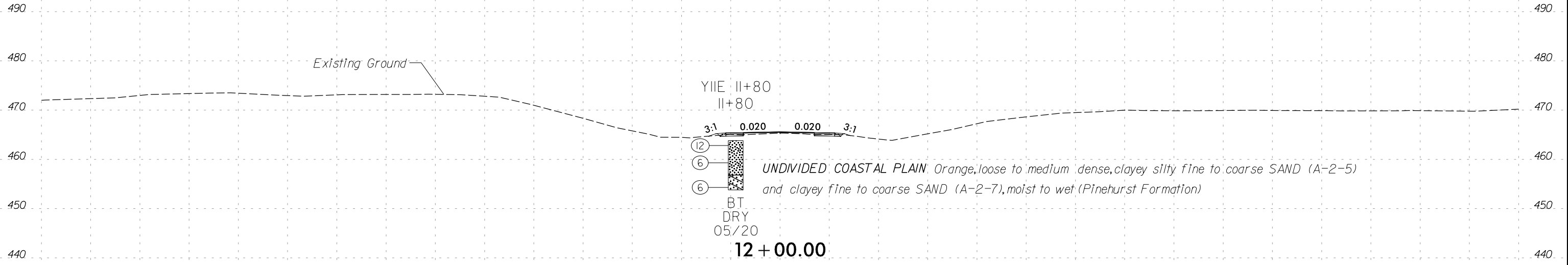
SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-28	12+50	18' LT	3.5 - 5.0	A-7-6 (20)	58	32	6.0	8.0	12.0	74.0	99.0	97.0	86.0	26.0	ND

- (A) ROADWAY EMBANKMENT Brown, medium dense, silty fine to coarse SAND (A-2-4), little gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Gray-orange-purple to white, stiff to very stiff, sandy silty highly plastic CLAY (A-7-6), moist
- (C) White, medium dense, silty SAND (A-2-4), clay balls, moist (Middendorf Formation)

UNDIVIDED COASTAL PLAIN Brown to red to orange-tan, loose to medium dense, silty SAND (A-2-4) and silty clayey SAND (A-2-6), trace of organic matter, moist

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



Existing Ground

YIIE 11+80
11+80

3:1 0.020 0.020 3:1

12
6
6

UNDIVIDED COASTAL PLAIN Orange, loose to medium dense, clayey silty fine to coarse SAND (A-2-5)
and clayey fine to coarse SAND (A-2-7), moist to wet (Pinehurst Formation)

BT
DRY
05/20

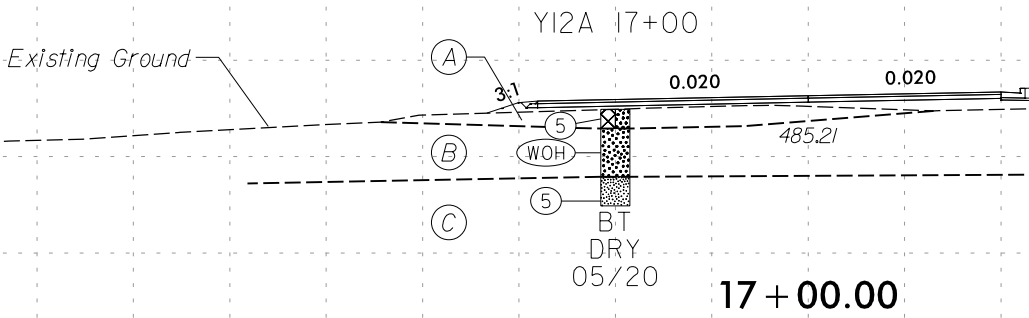
12 + 00.00

-YIIE-

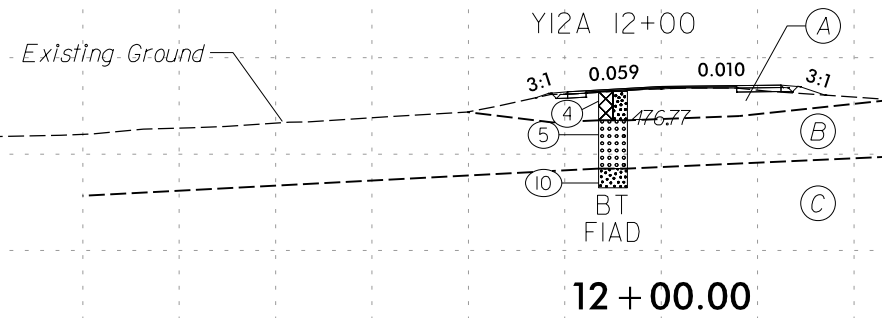
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

520 510 500 490 480 470 500 490 480 470 500 490 480 470 500 490 480 470

- (A) ARTIFICIAL FILL Brown-black, loose, silty fine to coarse SAND (A-2-4), trace of organic matter, trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Red, very loose, clayey silty fine to coarse SAND (A-2-5), moist
- (C) COASTAL PLAIN White-orange, medium stiff, clayey fine sandy SILT (A-4), moist (Pinehurst Formation)

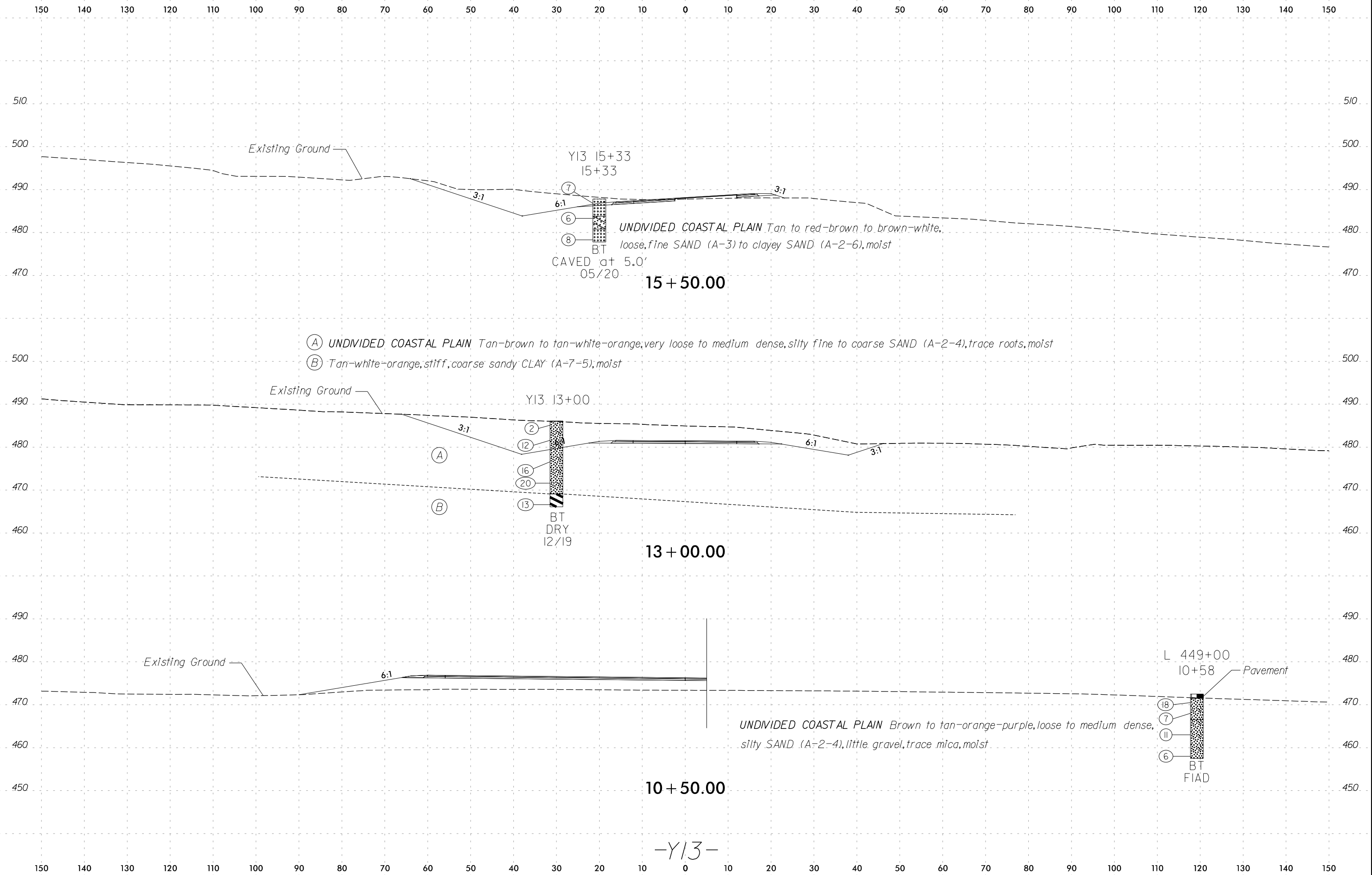


- (A) ARTIFICIAL FILL Tan-brown, loose, silty fine to coarse SAND (A-2-4), trace of organic matter, trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Tan-orange, loose, fine to coarse SAND (A-3), moist
- (C) COASTAL PLAIN Tan-orange, medium dense, clayey silty fine to coarse SAND (A-2-5), moist (Pinehurst Formation)



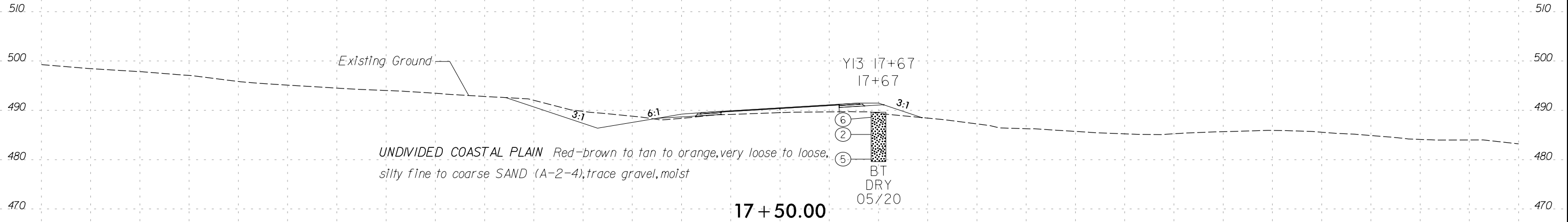
-Y12A-

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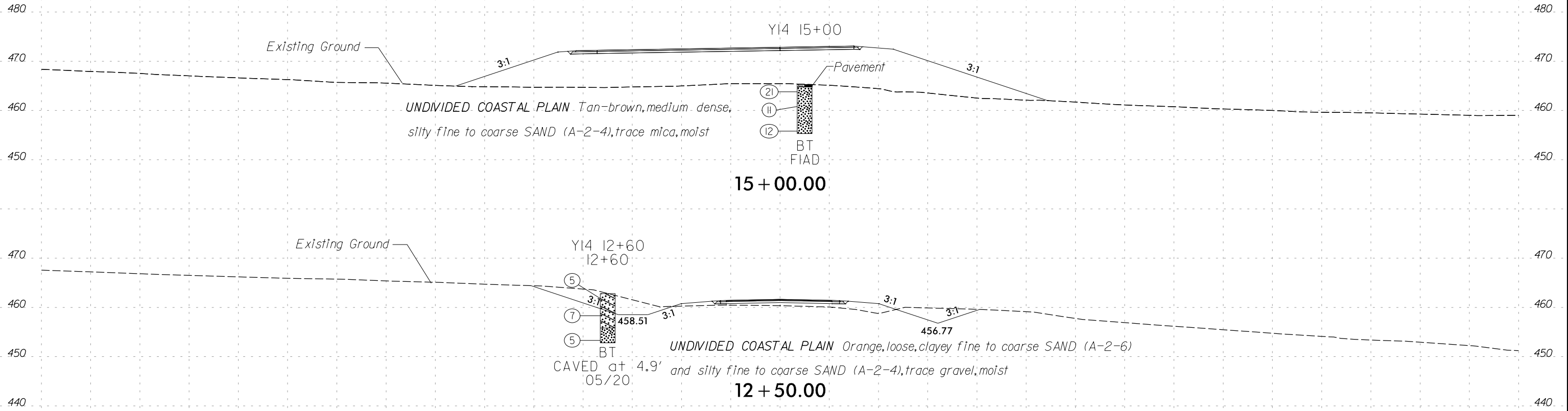
-Y13-

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



-Y13-

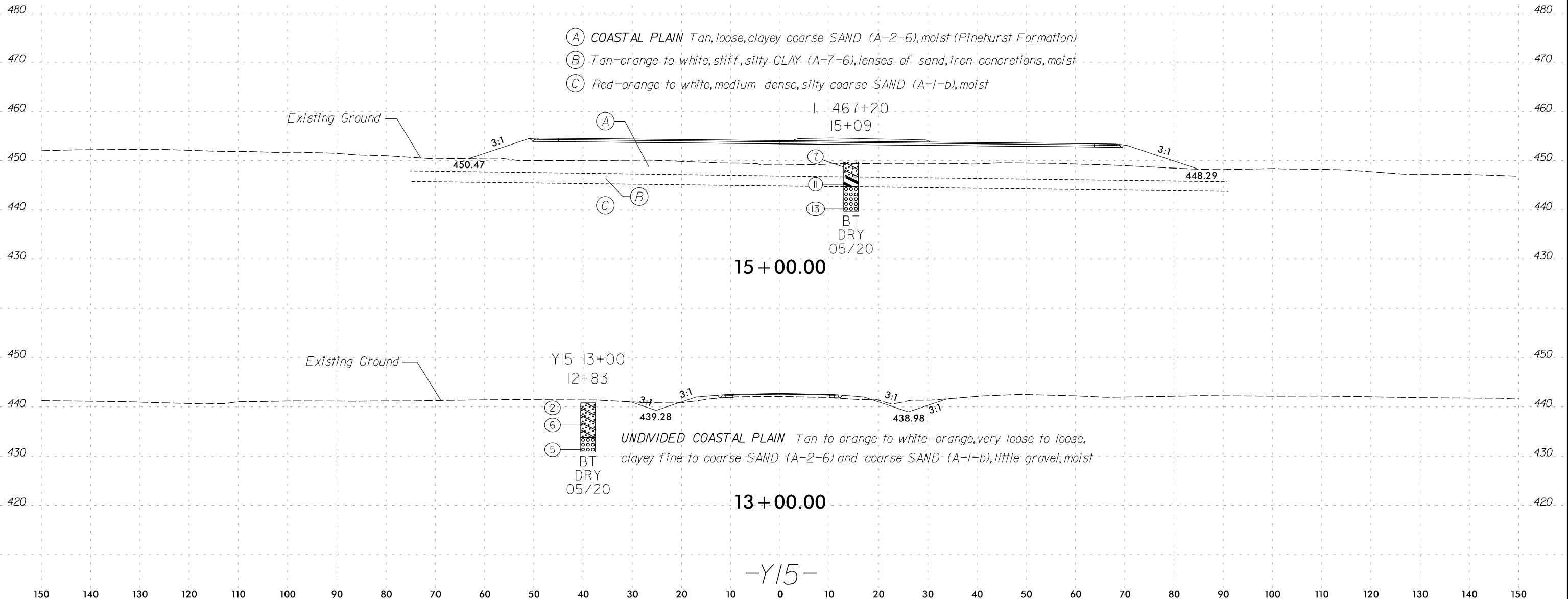
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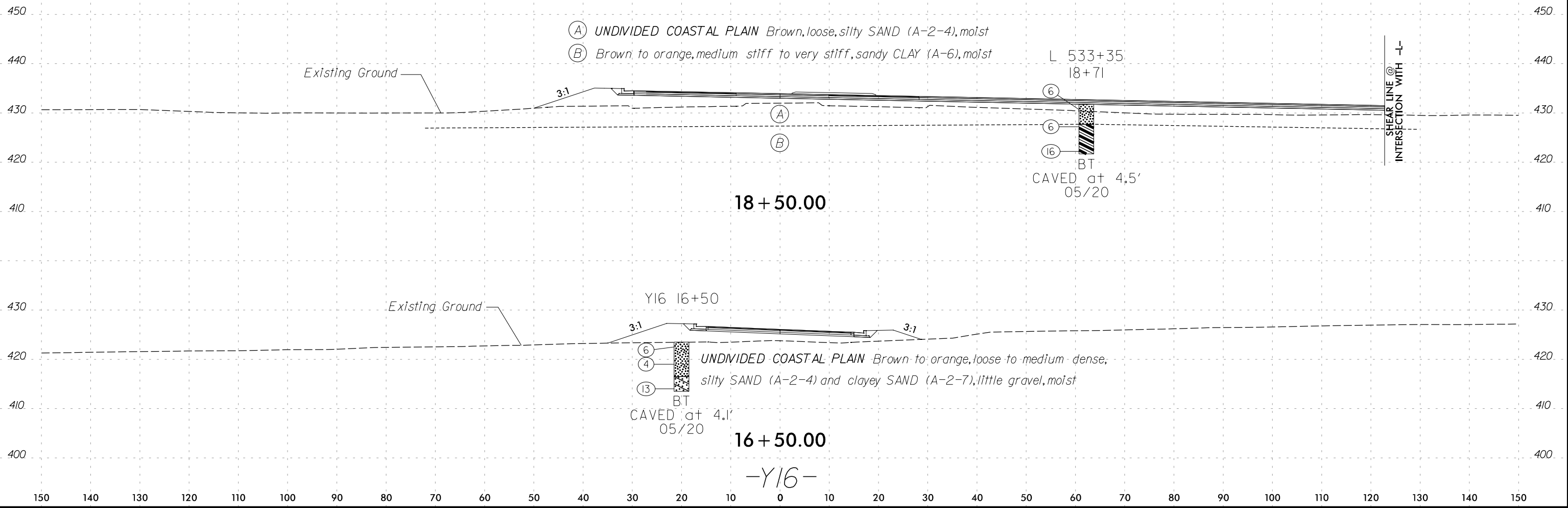
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-Y14-

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



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

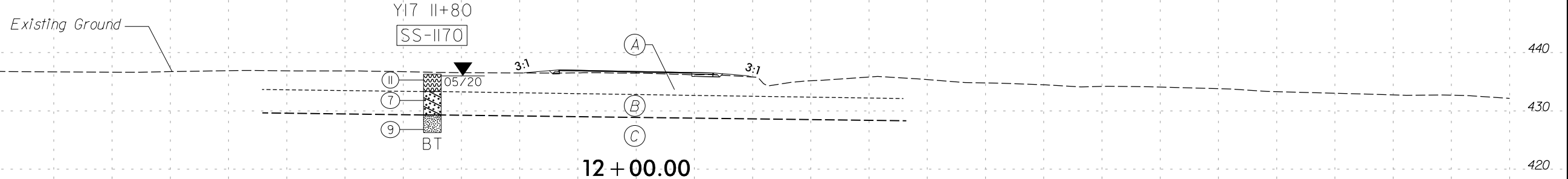


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

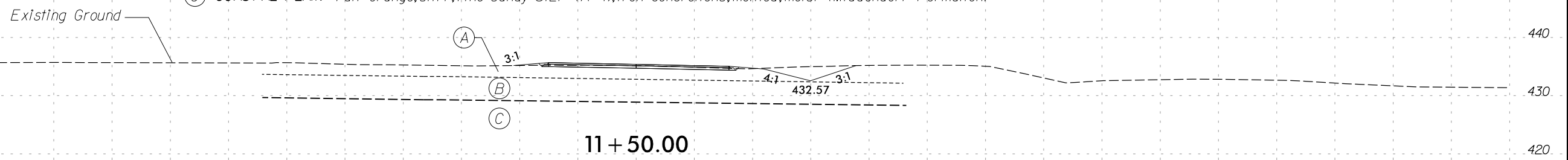
490 480 470 460 450 440 430 420 460 450 440 430 420 460 450 440 430 420 460 450 440 430 420

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1170	11+80	35' LT	0.0 - 1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.0

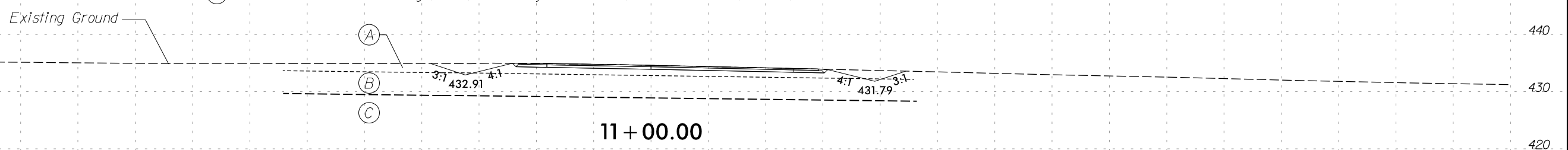
- (A) UNDIVIDED COASTAL PLAIN Black, stiff, sandy PEAT, moderately to highly organic, moist
- (B) Tan, loose, clayey coarse SAND (A-2-7), moist
- (C) COASTAL PLAIN Tan-orange, stiff, fine sandy SILT (A-4), iron concretions, mottled, moist (Middendorf Formation)



- (A) UNDIVIDED COASTAL PLAIN Black, stiff, sandy PEAT, moderately to highly organic, moist
- (B) Tan, loose, clayey coarse SAND (A-2-7), moist
- (C) COASTAL PLAIN Tan-orange, stiff, fine sandy SILT (A-4), iron concretions, mottled, moist (Middendorf Formation)



- (A) UNDIVIDED COASTAL PLAIN Black, stiff, sandy PEAT, moderately to highly organic, moist
- (B) Tan, loose, clayey coarse SAND (A-2-7), moist
- (C) COASTAL PLAIN Tan-orange, stiff, fine sandy SILT (A-4), iron concretions, mottled, moist (Middendorf Formation)

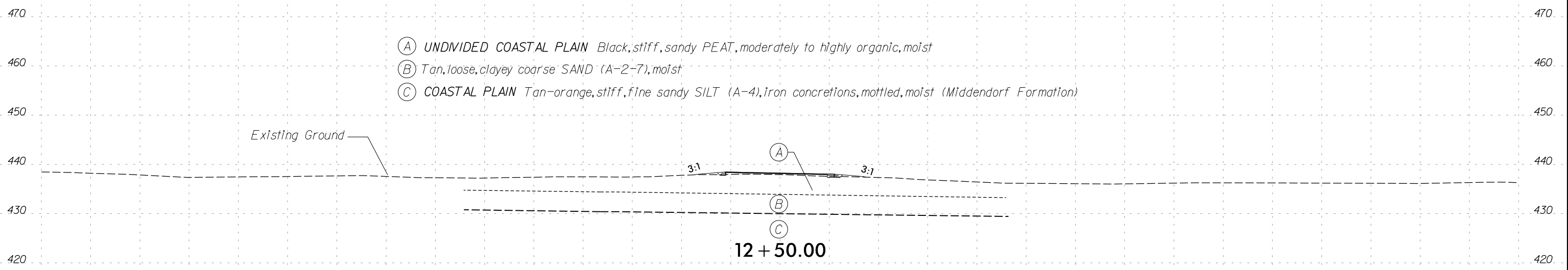
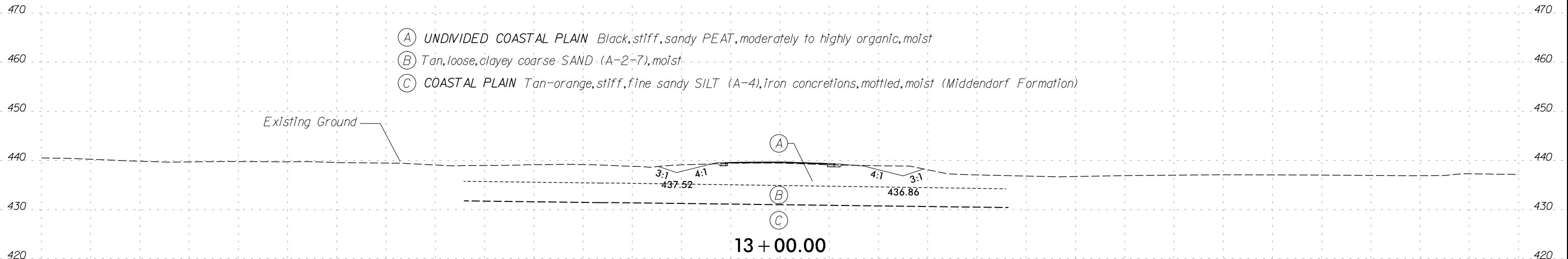


11 + 00.00

-Y17-

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

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



-Y17-

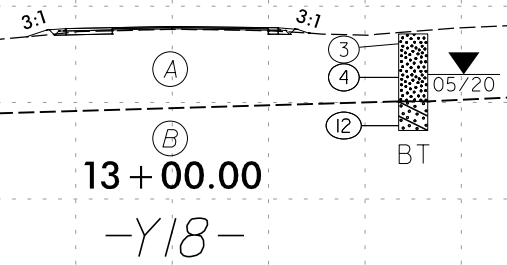
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-1202	13+20	25' RT	0.0 - 1.5	A-2-4	14	NP		

(A) UNDIVIDED COASTAL PLAIN Brown-orange to tan-orange, very loose to loose, silty fine SAND (A-2-4), moist

(B) COASTAL PLAIN Orange, medium dense, clayey coarse SAND (A-2-6), clay balls, moist to wet (Middendorf Formation)

Existing Ground



Y18 13+20

SS-1202

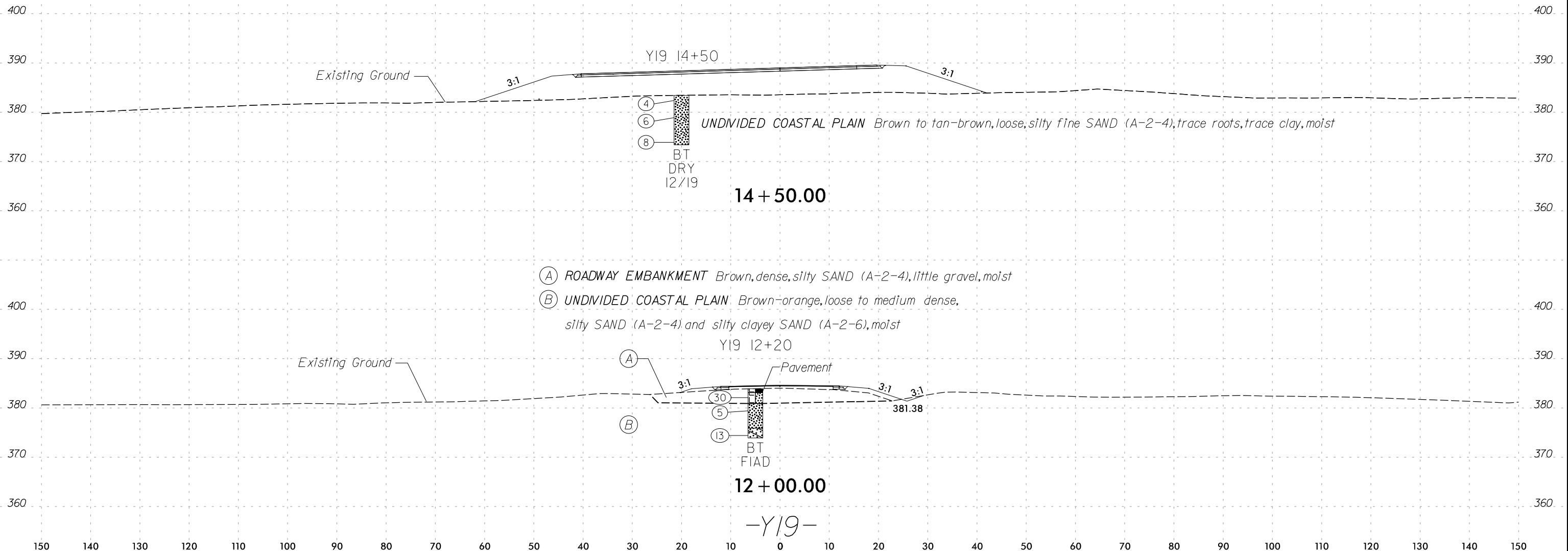
0.5/20

BT

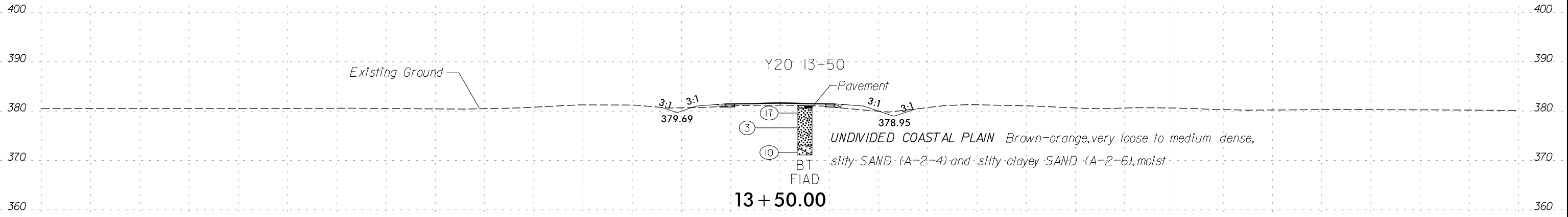
13 + 00.00

-Y18-

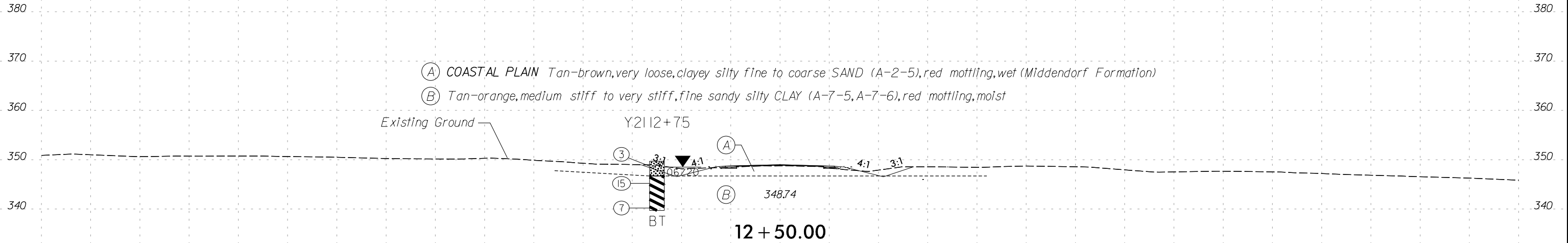
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



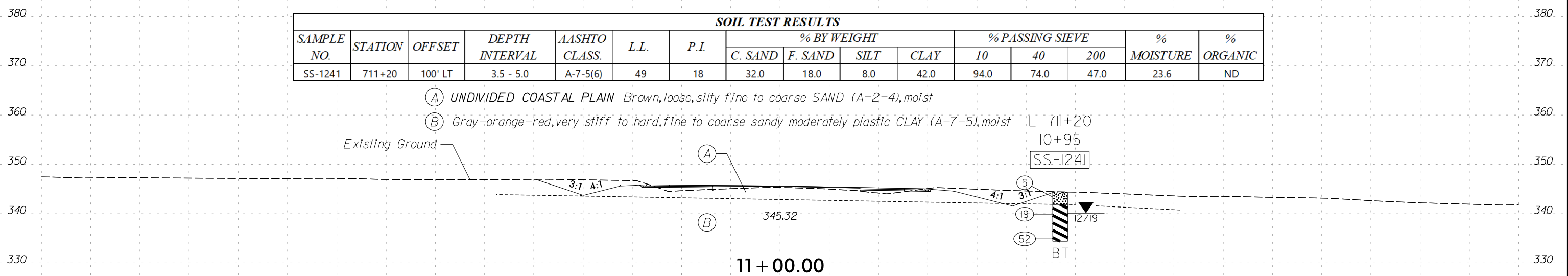
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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

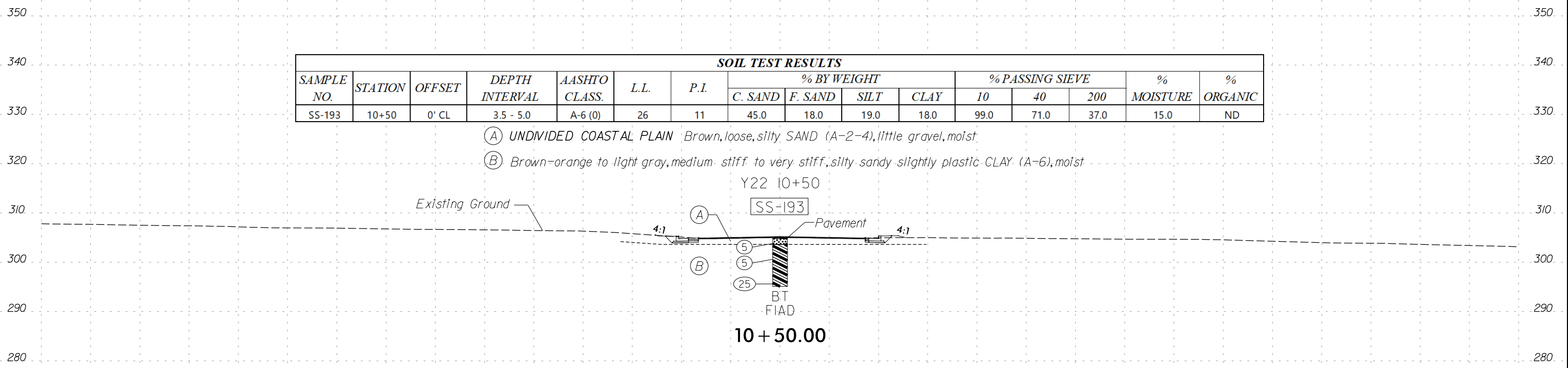


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1241	711+20	100' LT	3.5 - 5.0	A-7-5(6)	49	18	32.0	18.0	8.0	42.0	94.0	74.0	47.0	23.6	ND



-Y21-

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.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-193	10+50	0' CL	3.5 - 5.0	A-6 (0)	26	11	45.0	18.0	19.0	18.0	99.0	71.0	37.0	15.0	ND

(A) UNDIVIDED COASTAL PLAIN Brown, loose, silty SAND (A-2-4), little gravel, moist

(B) Brown-orange to light gray, medium-stiff to very stiff, silty-sandy slightly plastic CLAY (A-6), moist

Y22 10+50

SS-193

Pavement

4:1

4:1

(A)

(B)

5

5

25

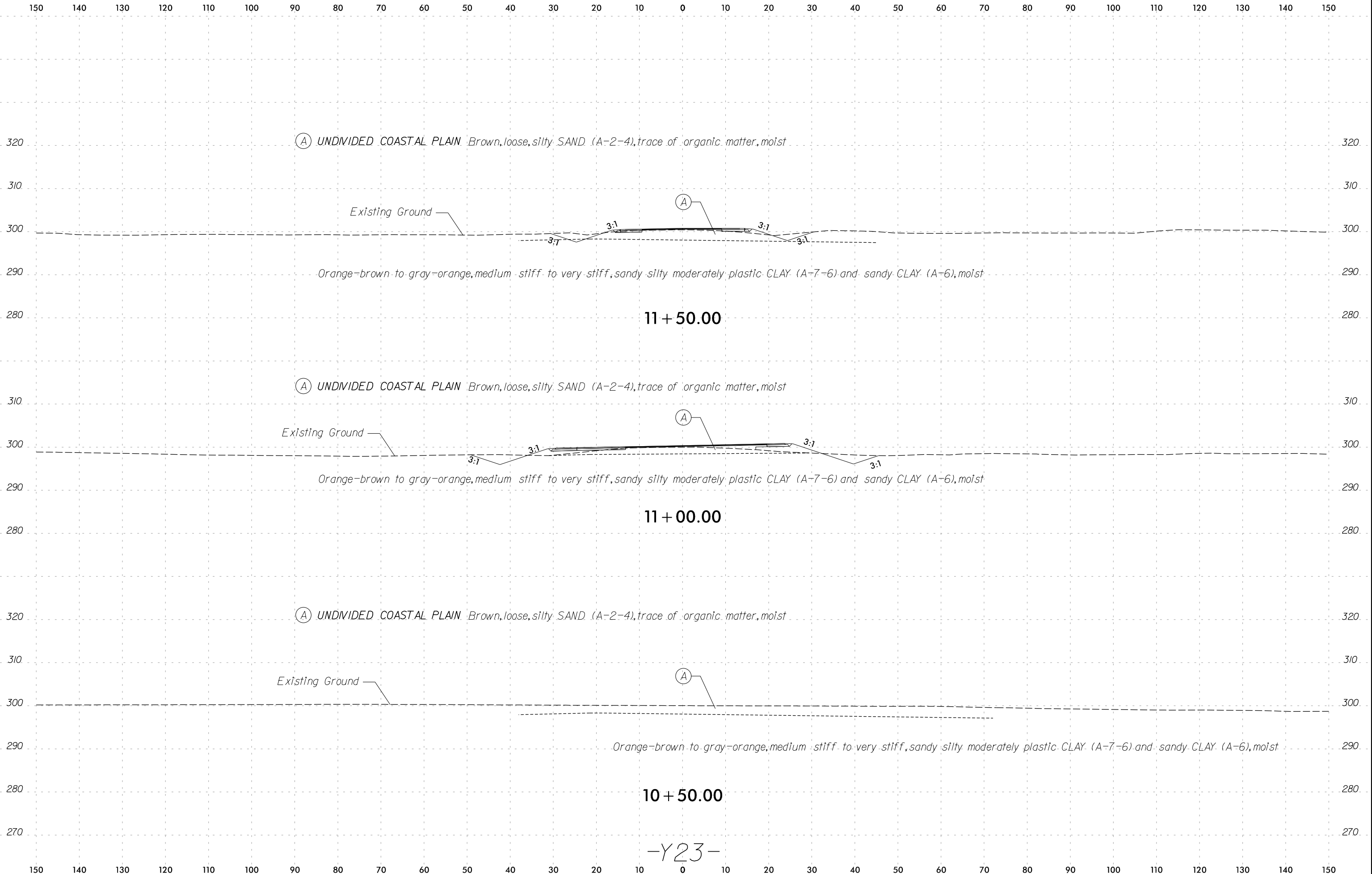
BT

FIAD

10 + 50.00

-Y22-

Existing Ground

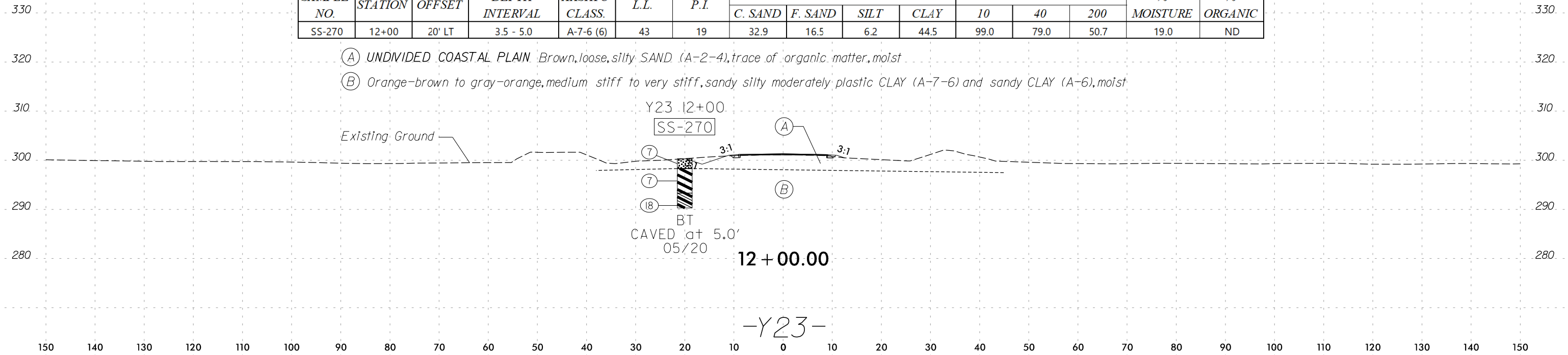


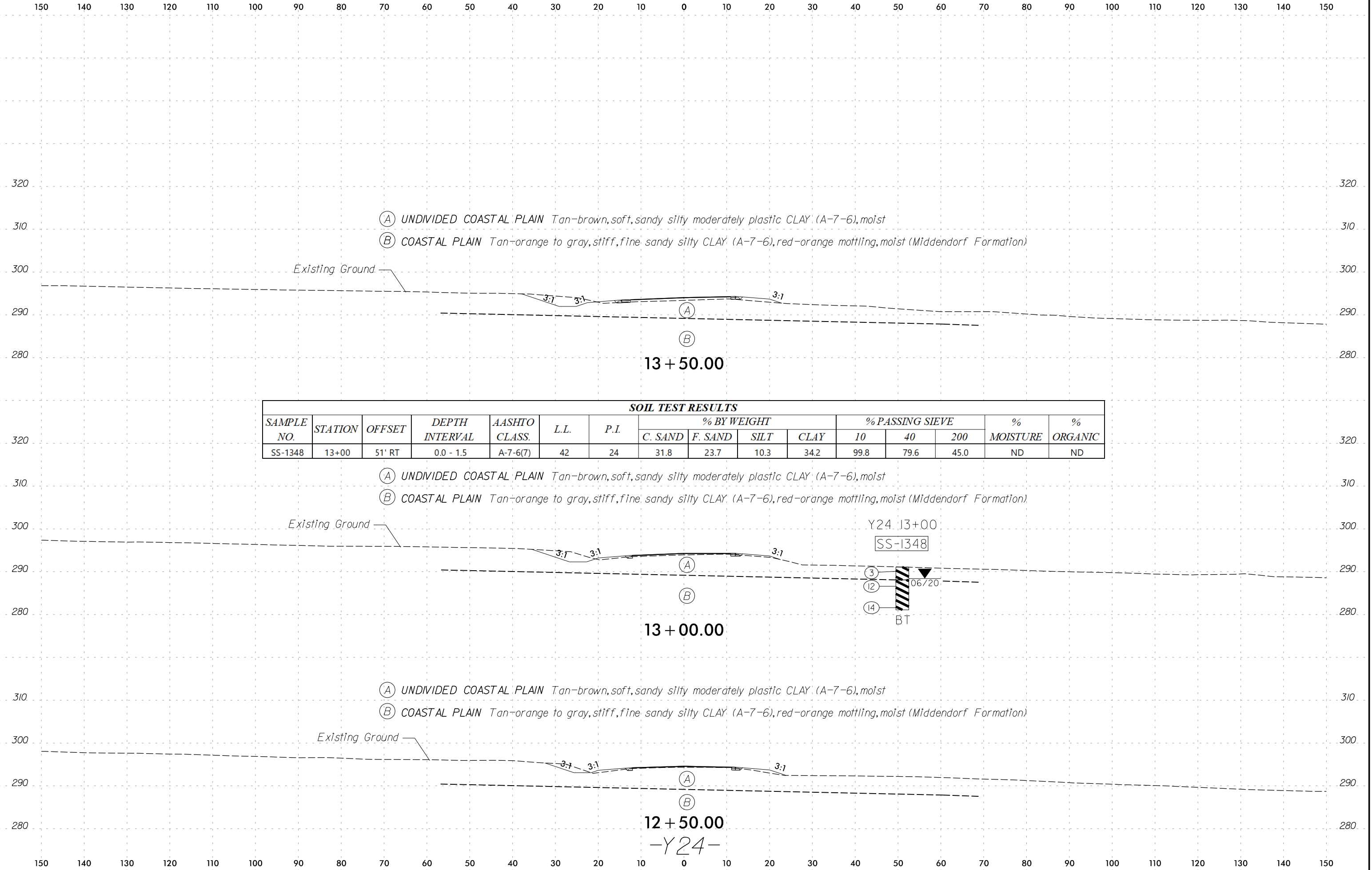
-Y23-

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.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-270	12+00	20' LT	3.5 - 5.0	A-7-6 (6)	43	19	32.9	16.5	6.2	44.5	99.0	79.0	50.7	19.0	ND

- (A) UNDIVIDED COASTAL PLAIN Brown, loose, silty SAND (A-2-4), trace of organic matter, moist
- (B) Orange-brown to gray-orange, medium stiff to very stiff, sandy silty moderately plastic CLAY (A-7-6) and sandy CLAY (A-6), moist





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

340 340

330 330

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1201	14+90	27' RT	3.5 - 5.0	A-6(1)	33	13	35.0	27.0	12.0	26.0	100.0	81.0	38.1	15.0	ND

320 320

(A) UNDIVIDED COASTAL PLAIN Brown, loose, silty fine to coarse SAND (A-2-4), moist

(B) Tan-brown, medium stiff, fine to coarse sandy slightly plastic CLAY (A-6), moist

(C) COASTAL PLAIN Gray, stiff, silty fine to coarse sandy CLAY (A-7-5), moist (Middendorf Formation)

Existing Ground

310 310

300 300

290 290

280 280

270 270

15 + 00.00

Y24 15+00

SS-1201

9

6

13

BT FIAD

(A) UNDIVIDED COASTAL PLAIN Brown, loose, silty fine to coarse SAND (A-2-4), moist

(B) Tan-brown, medium stiff, fine to coarse sandy slightly plastic CLAY (A-6), moist

(C) COASTAL PLAIN Gray, stiff, silty fine to coarse sandy CLAY (A-7-5), moist (Middendorf Formation)

310 310

300 300

Existing Ground

290 290

280 280

14 + 50.00

(A) UNDIVIDED COASTAL PLAIN Tan-brown, soft, sandy silty moderately plastic CLAY (A-7-6), moist

(B) COASTAL PLAIN Tan-orange to gray, stiff, fine sandy silty CLAY (A-7-6), red-orange mottling, moist (Middendorf Formation)

310 310

300 300

Existing Ground

290 290

280 280

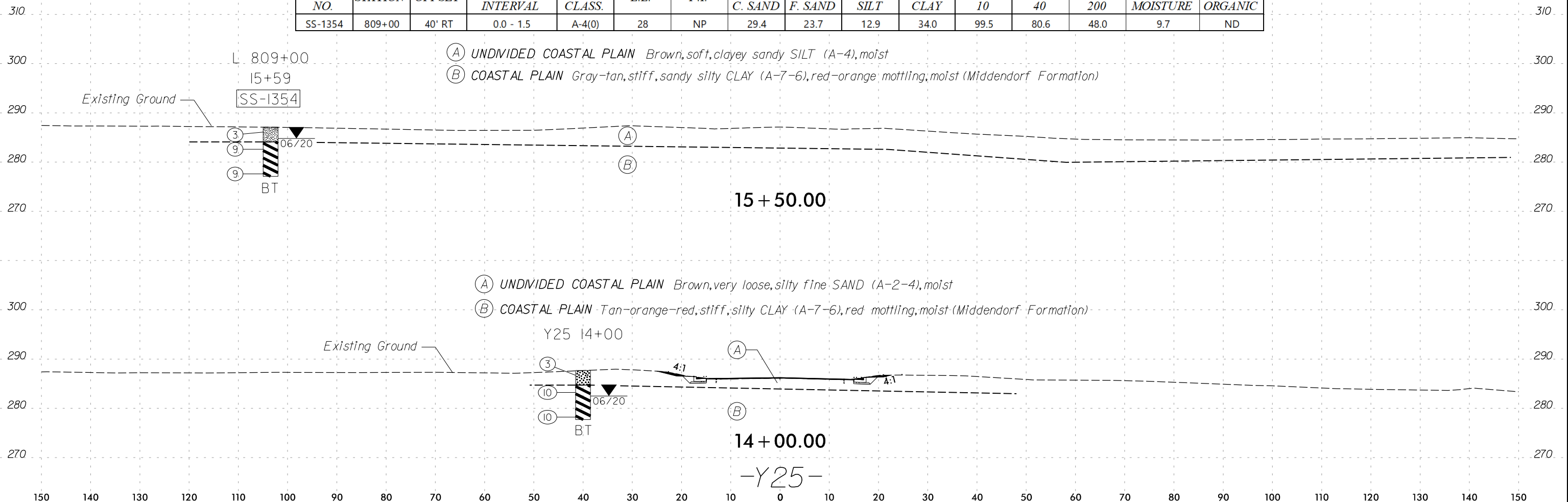
14 + 00.00

-Y24-

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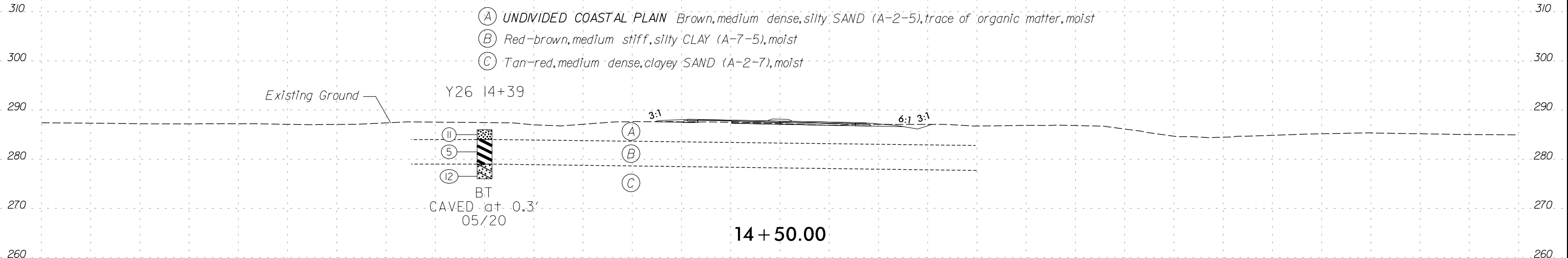
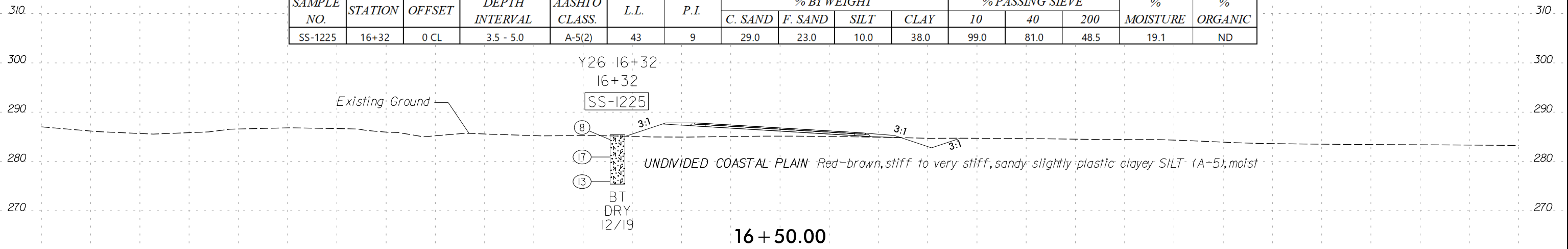
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-1354	809+00	40' RT	0.0 - 1.5	A-4(0)	28	NP		

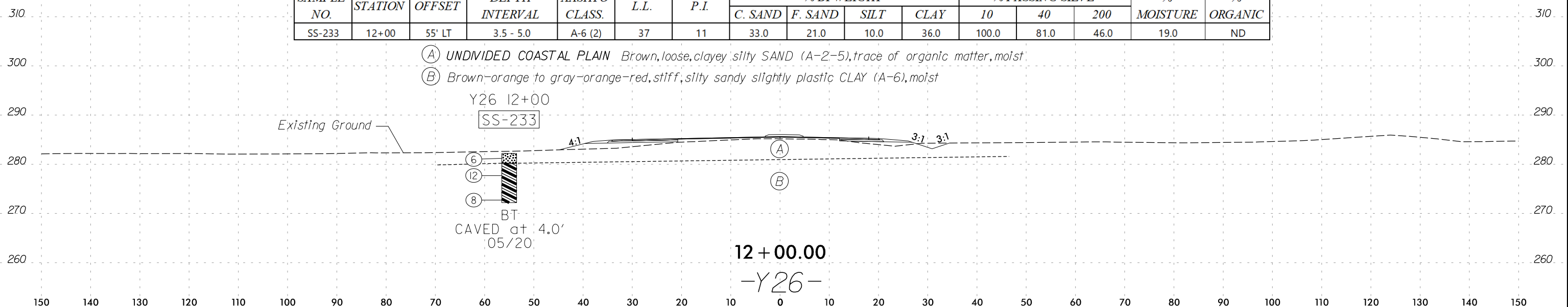


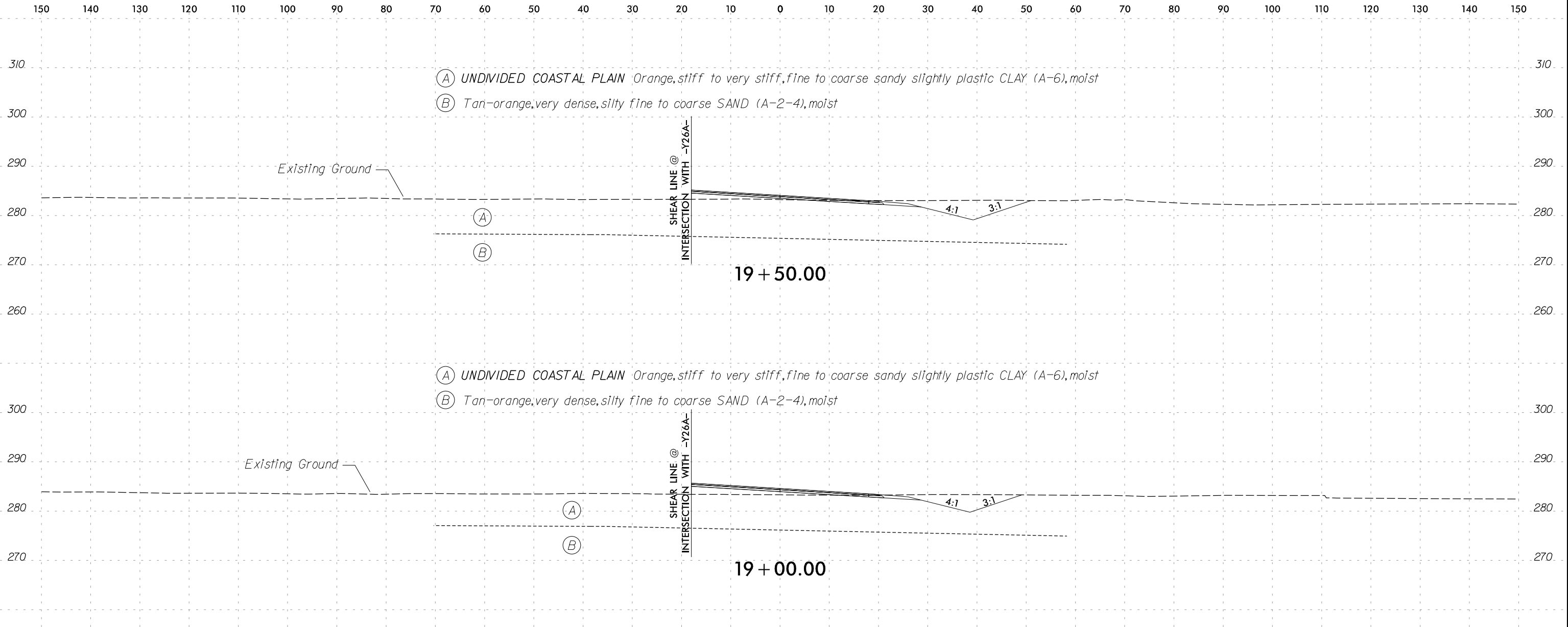
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SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1225	16+32	0 CL	3.5 - 5.0	A-5(2)	43	9	29.0	23.0	10.0	38.0	99.0	81.0	48.5	19.1	ND

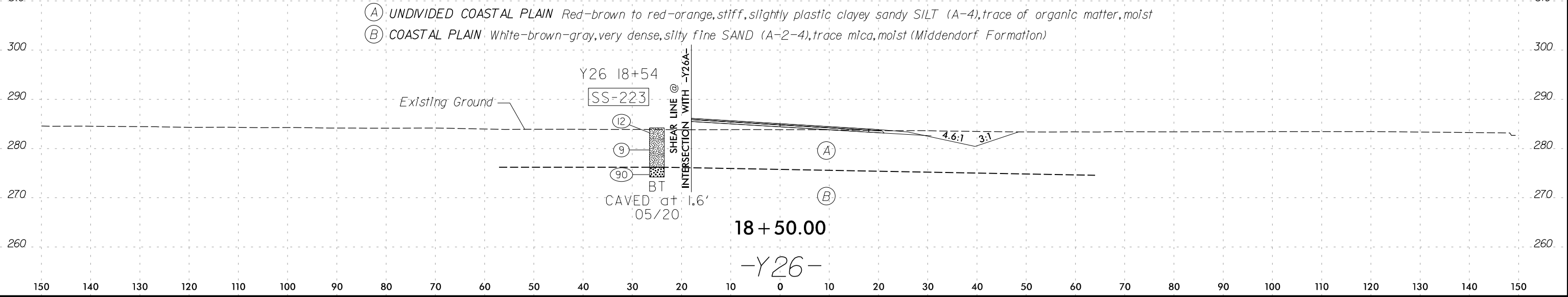


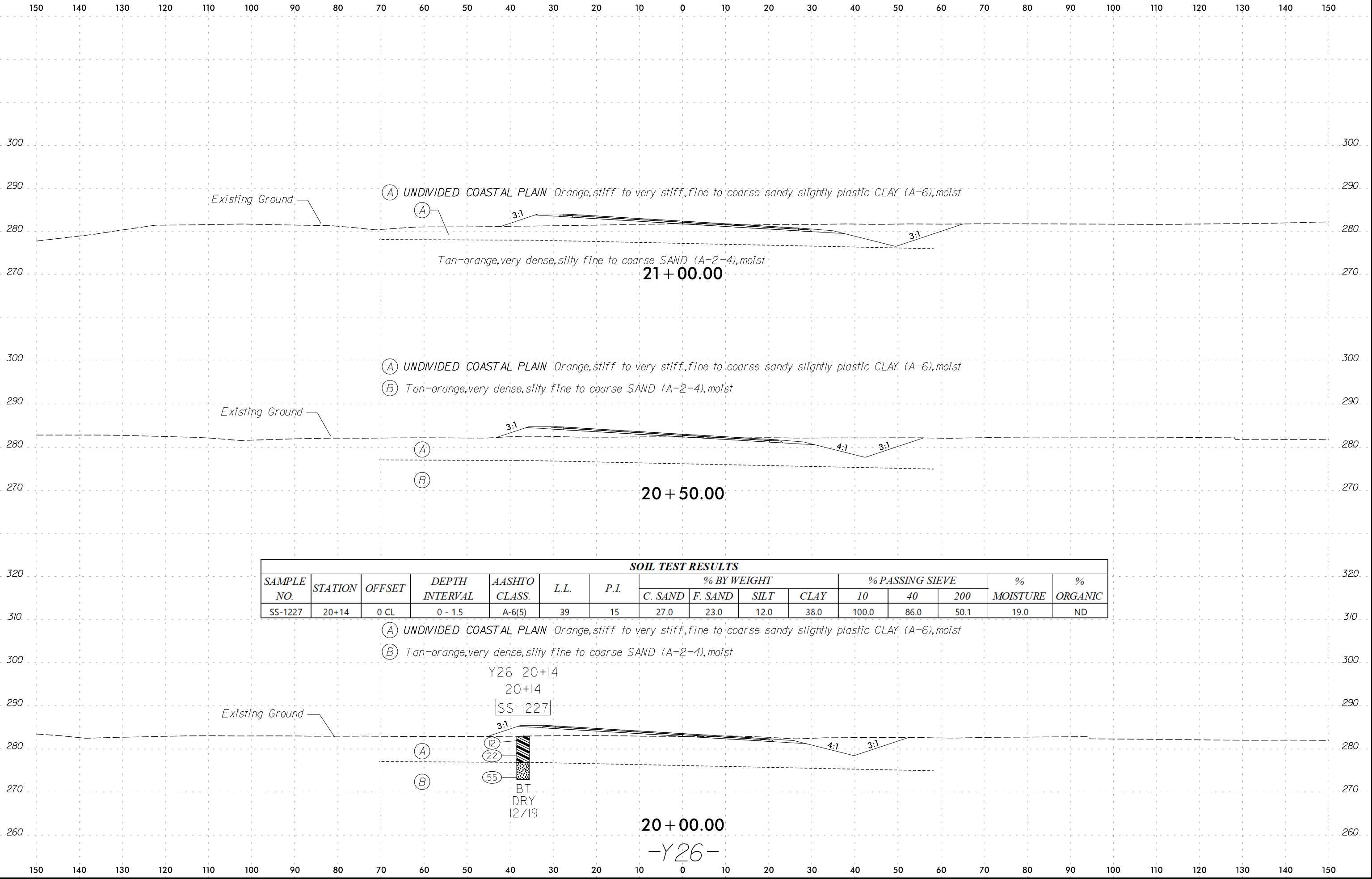
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-233	12+00	55' LT	3.5 - 5.0	A-6 (2)	37	11	33.0	21.0	10.0	36.0	100.0	81.0	46.0	19.0	ND





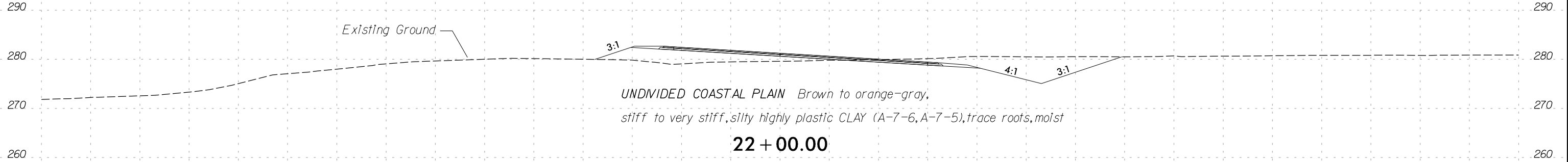
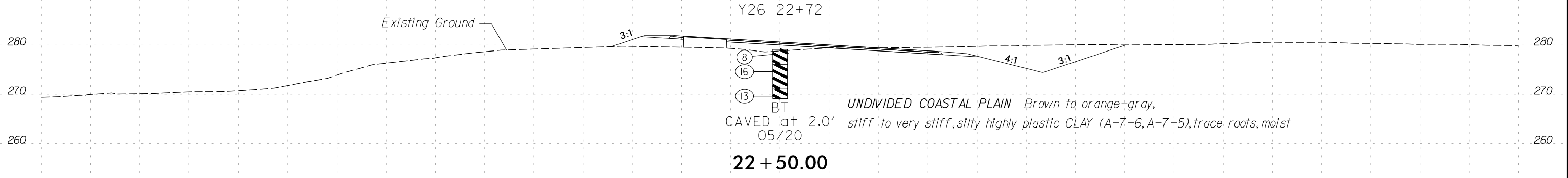
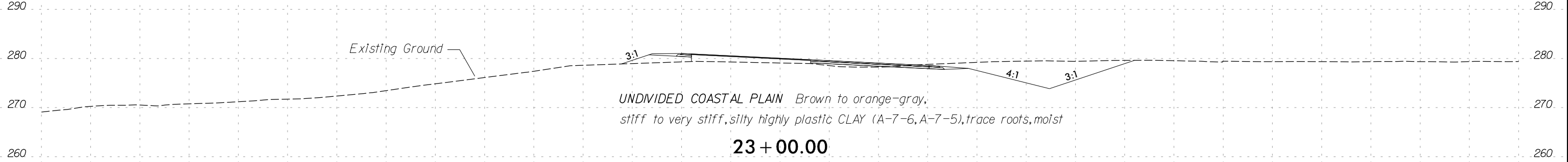
SOIL TEST RESULTS																
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200			
SS-223	18+54	25' LT	0.0 - 1.5	A-4 (0)	22	9	31.0	28.0	17.0	24.0	100.0	85.0	41.0	13.0	ND	





SOIL TEST RESULTS																
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200			
SS-1227	20+14	0 CL	0 - 1.5	A-6(5)	39	15	27.0	23.0	12.0	38.0	100.0	86.0	50.1	19.0	ND	

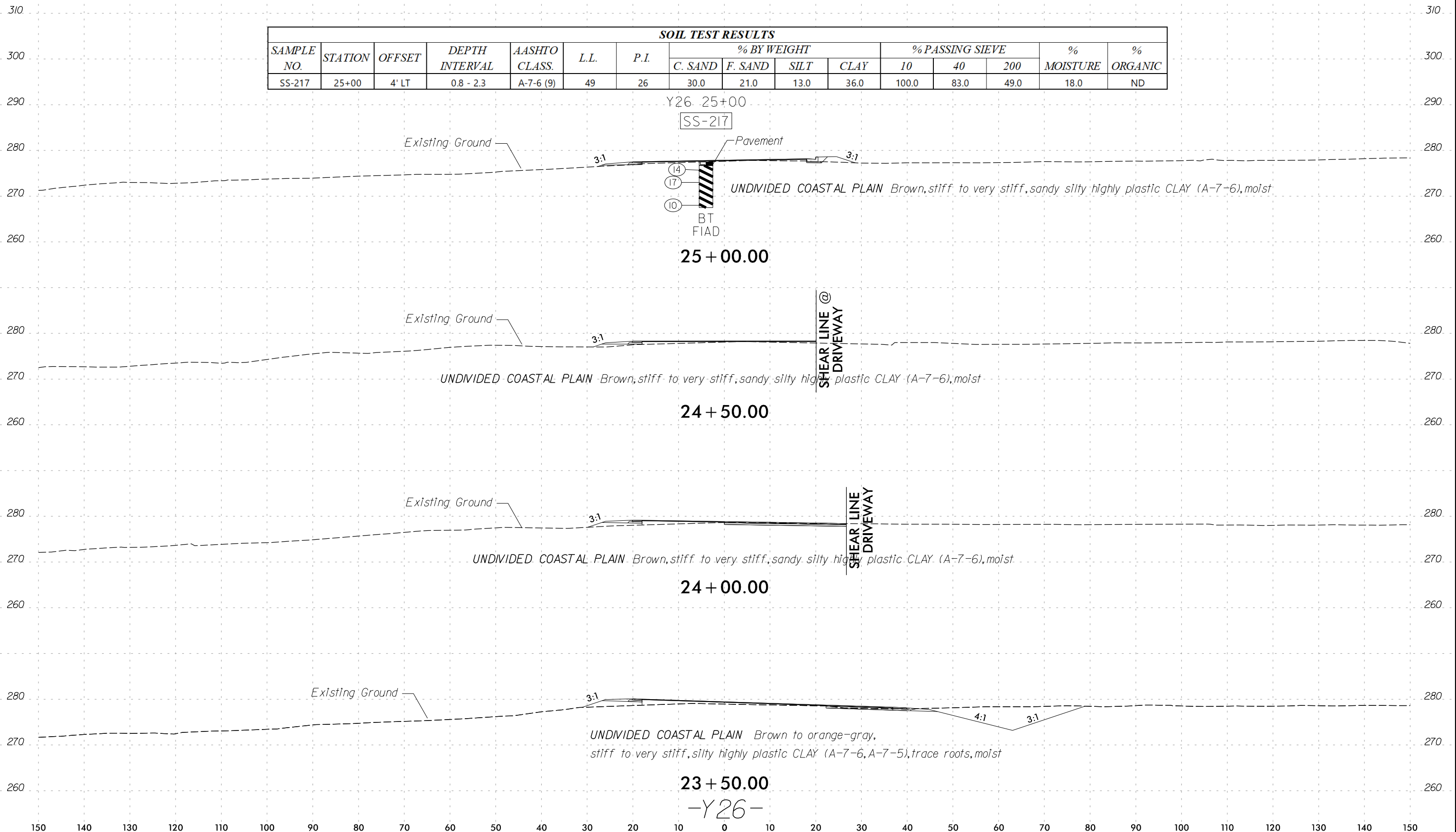
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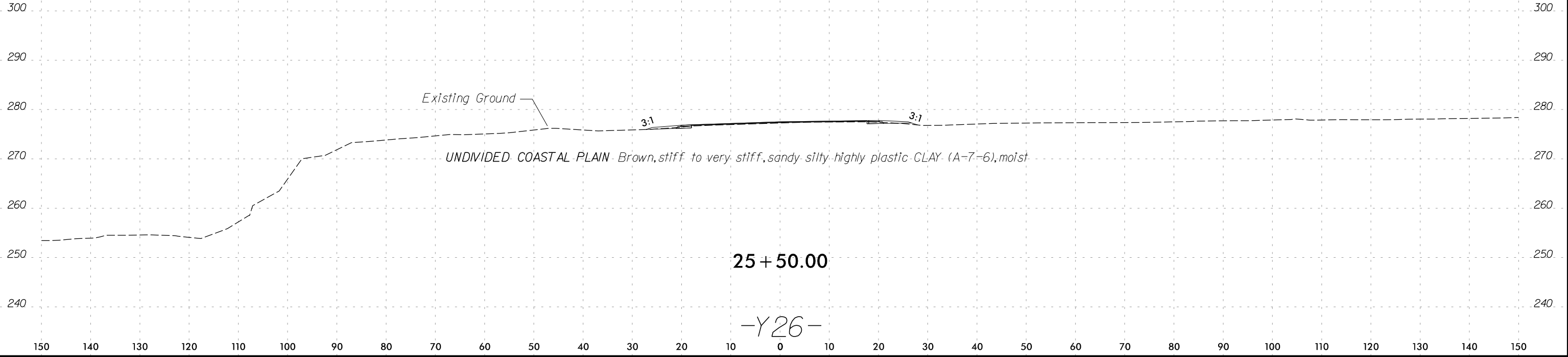
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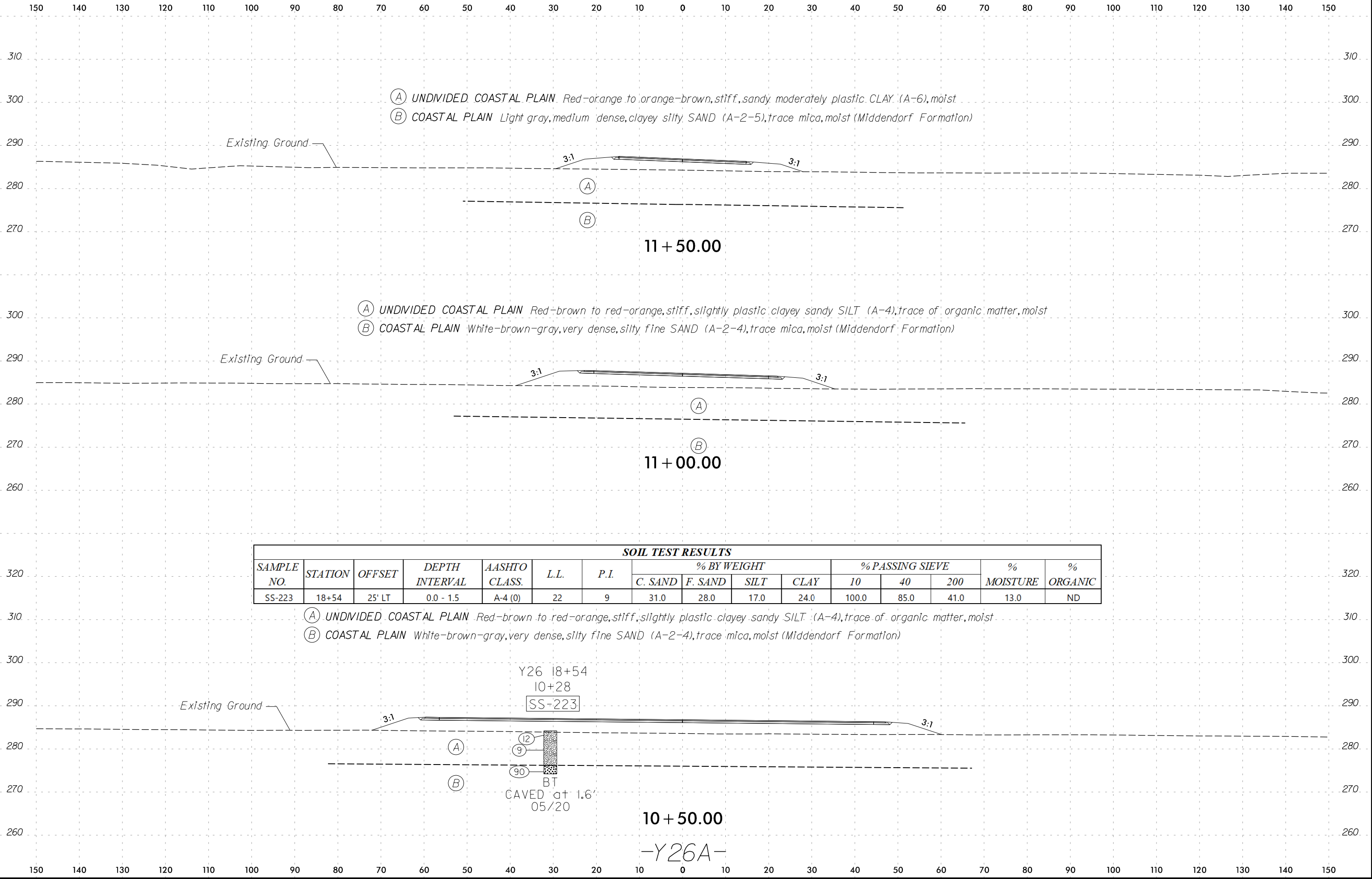
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-217	25+00	4' LT	0.8 - 2.3	A-7-6 (9)	49	26	30.0	21.0	13.0	36.0	100.0	83.0	49.0	18.0	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





10 + 50.00
-Y26A-

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

340 340

330 330

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-226	12+30	0' CL	0.0 - 1.5	A-6 (3)	38	20	36.0	27.0	9.0	28.0	100.0	80.0	37.0	15.0	ND

320 320

310 310

- (A) UNDIVIDED COASTAL PLAIN Red-orange to orange-brown, stiff, sandy moderately plastic CLAY (A-6), moist
- (B) COASTAL PLAIN Light gray, medium dense, clayey silty SAND (A-2-5), trace mica, moist (Middendorf Formation)

300 300

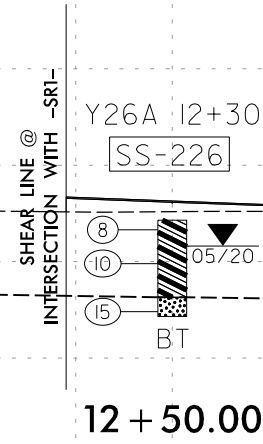
290 290

280 280

270 270

260 260

Existing Ground



300 300

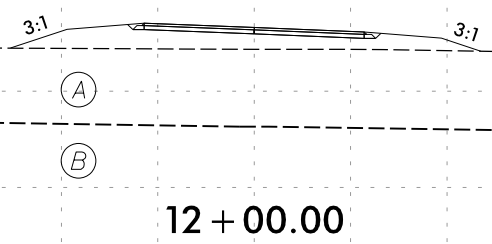
290 290

280 280

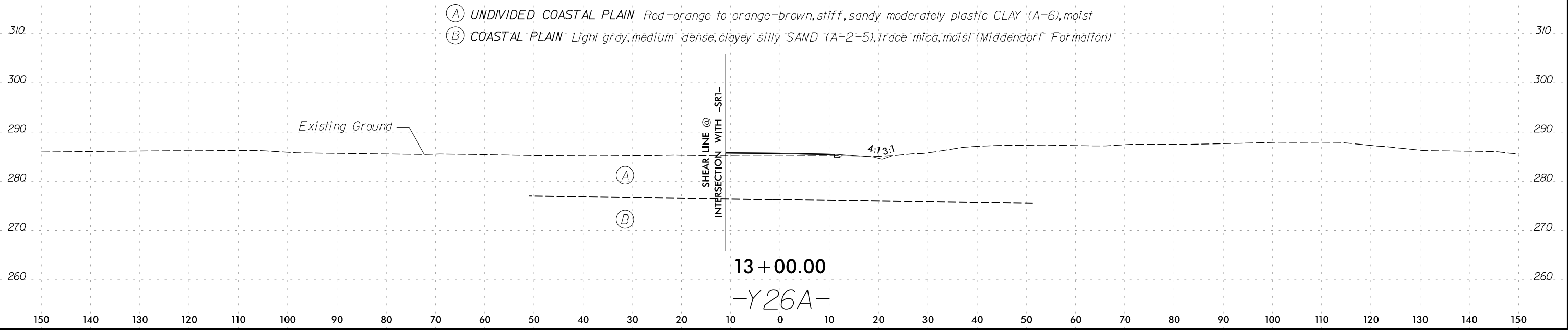
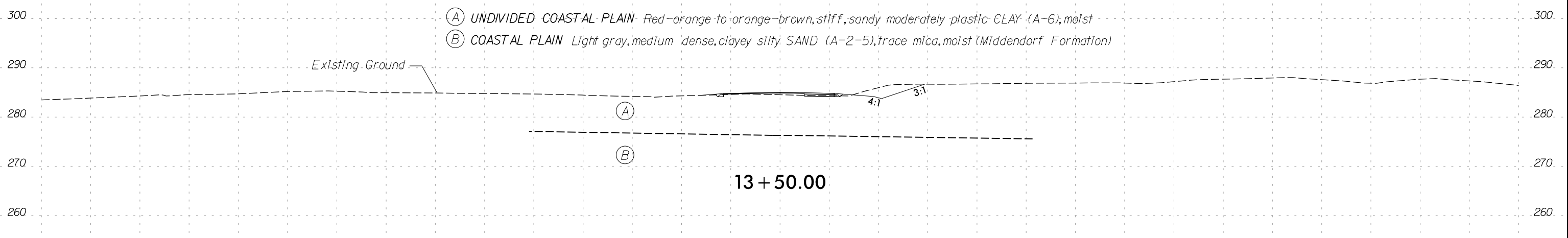
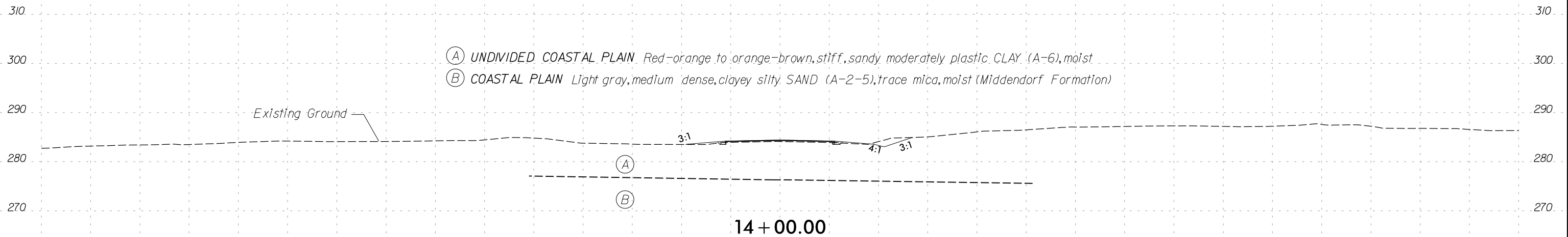
270 270

260 260

Existing Ground



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



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

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
							SS-245	14+60	40' LT	3.5 - 5.0	A-7-6 (14)	56	36		

- (A) UNDIVIDED COASTAL PLAIN Brown, loose, silty SAND (A-2-4), trace of organic matter, moist
- (B) Orange-gray, stiff to very stiff, sandy silty highly plastic CLAY (A-7-6), moist

Y26A 14+60

14+60

SS-245

Existing Ground

6

12

18

BT

CAVED at 4.6'
05/20

3:1 3:1

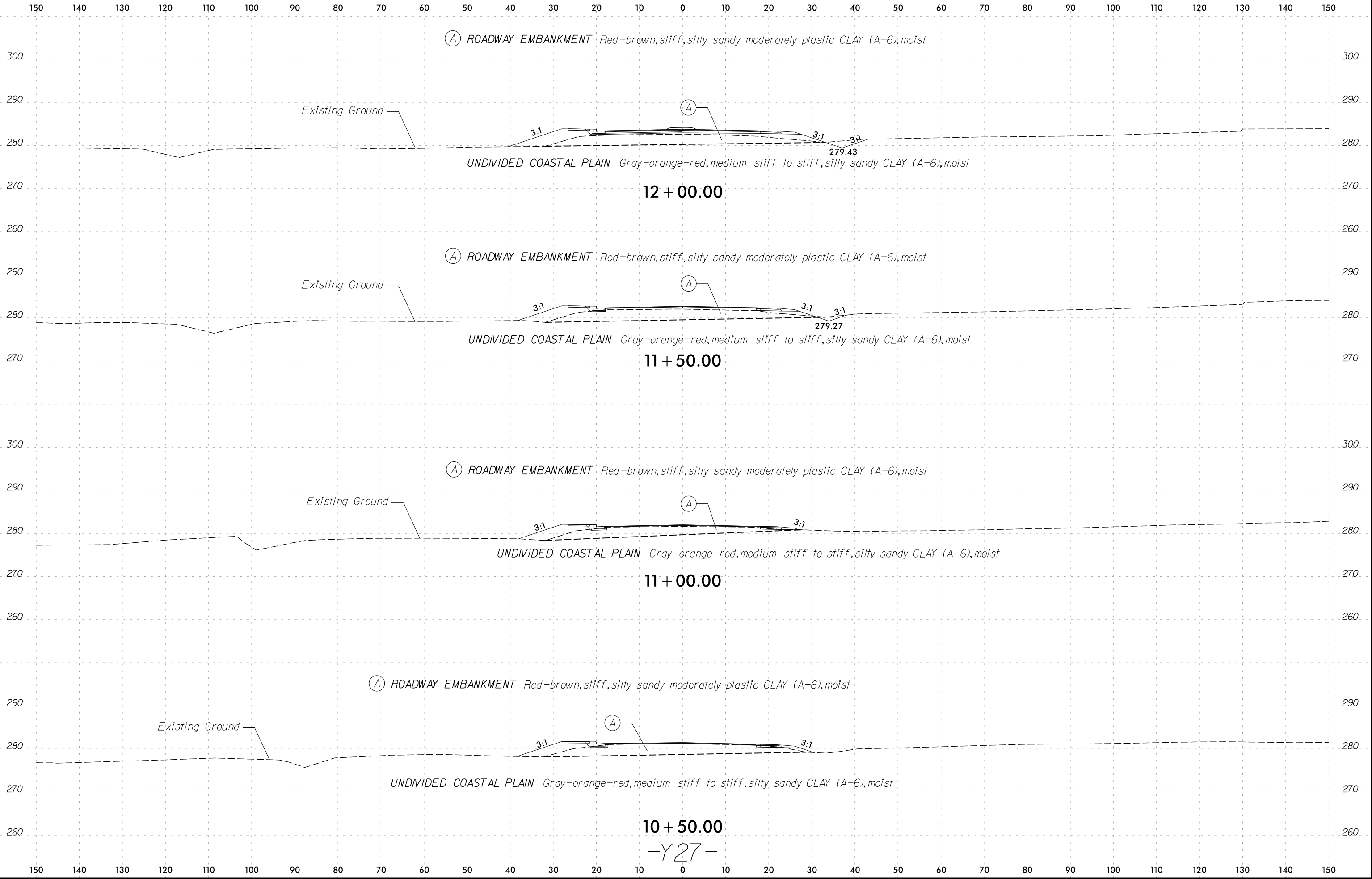
3:1

4:1

3:1

14 + 50.00

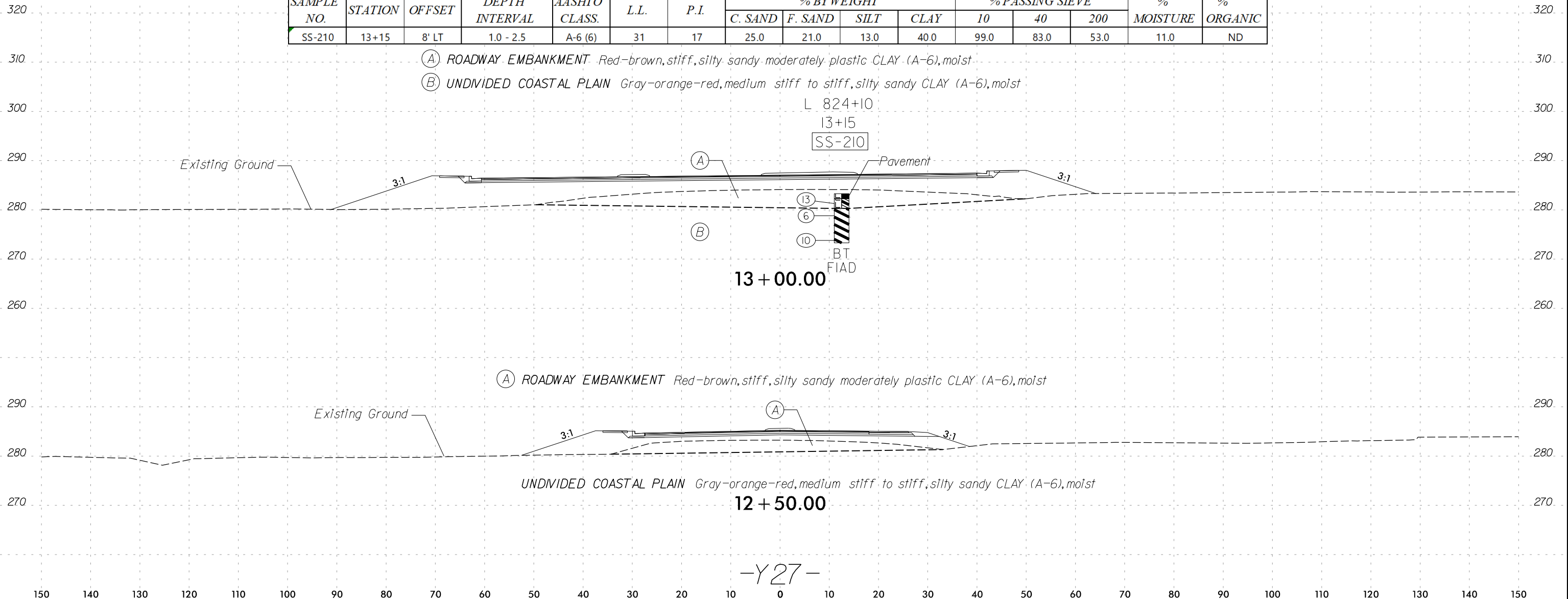
-Y26A-



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.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-210	13+15	8' LT	1.0 - 2.5	A-6 (6)	31	17	25.0	21.0	13.0	40.0	99.0	83.0	53.0	11.0	ND

- (A) ROADWAY EMBANKMENT Red-brown, stiff, silty sandy moderately plastic CLAY (A-6), moist
- (B) UNDIVIDED COASTAL PLAIN Gray-orange-red, medium stiff to stiff, silty sandy CLAY (A-6), moist



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5709C	248	

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

ROADWAY
SUBSURFACE INVESTIGATION

APPENDIX A
BORE LOGS

REFERENCE: R-5709C

PROJECT: 50205

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50205.1.1		TIP R-5709		COUNTY HOKE		GEOLOGIST Cary, P.										
SITE DESCRIPTION NC 211 Widening from US 15-501 in Aberdeen to SR 1244 (W. Palmer St.)/SR 1311 (Mockingbird Hill Rd.)							GROUND WTR (ft)									
BORING NO. Y26 27+00		STATION 27+00		OFFSET 4 ft LT		ALIGNMENT -Y26-										
COLLAR ELEV. 276.0 ft		TOTAL DEPTH 10.0 ft		NORTHING 451,394		EASTING 1,927,455										
DRILL RIG/HAMMER EFF./DATE FME3304 CME-45B 87% 03/13/2020				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Phillips, J.		START DATE 05/18/20		COMP. DATE 05/18/20		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100			ELEV. (ft)	DEPTH (ft)		
280																
275	275.2	0.8	4	3	15									276.0	0.0	GROUND SURFACE
														275.2	0.8	ROADWAY EMBANKMENT 0.8' Asphalt
	272.5	3.5	2	3	4									273.0	3.0	Brown-gray, very stiff, sandy CLAY (A-6), trace gravel
270																UNDIVIDED COASTAL PLAIN
														269.0	7.0	Brown, medium stiff, sandy CLAY (A-6)
	267.5	8.5	3	5	8											Tan-orange, medium dense, silty clayey SAND (A-2-6), trace mica
														266.0	10.0	Boring Terminated at Elevation 266.0 ft in silty clayey SAND (A-2-6)
																*Not shown in cross section - boring drilled beyond the end of updated Y26 alignment

NCDOT BORE DOUBLE R5709_SEC2_RDY.GPJ NC_DOT.GDT 2/18/21

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5709C	250	

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

ROADWAY
SUBSURFACE INVESTIGATION

APPENDIX B
LAB RESULTS

REFERENCE: R-5709C

PROJECT: 50205

LAB RESULTS

Project: NC 211 Widening from 0.4 miles north of SR 1225 (Ashemont Road) to east of SR 1244 (West Palmer Street) / SR 1311 (Mockingbird Hill Road) in Raeford

T.I.P.: R-5709C

Boring No.	Sample No.	Station No.	Offset	Alignment	Northing	Easting	Sample Depth (ft)	AASHTO Classification	% PASSING SIEVE			% BY WEIGHT				LL	PI	% ORGANIC	% MOISTURE
									10	40	200	C. SAND	F. SAND	SILT	CLAY				
L 331+33	SS-682	331+33	20' LT	L	482193	1893042	3.5 - 5.0	A-2-4	99	77	25	47	30	2	20	21	5	ND	17
L 333+33	SS-678	333+33	20' LT	L	482023	1893146	0.0 - 1.5	A-3	100	62	7	72	21	4	2	17	NP	4	3
L 349+00	SS-672	349+00	35' LT	L	480691	1893972	0.0 - 1.5	A-2-4	100	67	12	61	29	4	6	15	NP	ND	5
L 353+00	SS-491	353+00	25' RT	L	480315	1894123	1.3 - 2.8	A-2-6	94	60	25	59	15	3	22	30	12	ND	ND
L 355+33	SS-669	355+33	0' CL	L	480126	1894261	0.0 - 1.5	A-2-4	98	54	17	65	20	5	10	15	NP	ND	3
L 355+33	SS-670	355+33	0' CL	L	480126	1894261	3.5 - 5.0	A-2-6	98	54	31	57	13	2	28	40	16	ND	18
L 357+00	SS-1725	357+00	10' RT	L	479976	1894335	0.0 - 1.5	A-2-4	99	67	10	49	42	3	3	18	NP	ND	9
L 361+25	SS-666	361+25	5' LT	L	479615	1894561	0.0 - 1.5	A-2-4	100	64	15	61	27	3	10	18	NP	ND	5
L 363+50	SS-1001	363+50	5' RT	L	479356	1894698	3.5 - 5.0	A-2-6 (0)	97.0	52.0	25.0	61.0	14.0	1.0	24.0	32	14	ND	20.0
L 368+00	SS-202	368+00	22' LT	L	478968	1894928	3.5 - 5.0	A-2-4	99.0	76.0	27.0	44.0	30.0	2.0	24.0	34	8	ND	16.5
L 379+00	SS-1019	379+00	30' RT	L	477915	1895244	0.0 - 1.5	A-2-6 (0)	94.0	25.0	22.0	69.0	10.0	1.0	20.0	31	11	ND	10.0
L 381+00	SS-1022	381+00	15' RT	L	477724	1895303	0.0 - 1.5	A-6 (8)	100.0	86.0	60.0	23.0	17.0	20.0	40.0	40	16	ND	18.0
L 383+00	SS-208	383+00	10' RT	L	477530	1895346	3.5 - 5.0	A-2-4	99.0	58.0	23.2	56.0	21.0	3.0	20.0	23	6	ND	17.5
L 387+50	SS-1028	387+50	0' CL	L	477086	1895422	0.0 - 1.5	A-2-4	98.0	71.0	18.0	53.0	29.0	8.0	10.0	20	NP	ND	12.0
L 394+33	SS-11	394+33	27' LT	L	476418	1895558	33.5 - 35.0	A-6 (1)	99.0	64.0	38.6	46.0	15.0	8.2	30.4	36	13	5.7	19.8
L 389+75	SS-1031	389+75	0' CL	L	476863	1895454	0 - 1.5	A-2-4	100.0	94.0	21.0	35.0	45.0	2.0	18.0	22	NP	ND	11.0
L 401+00	SS-705	401+00	35' RT	L	475792	1895769	13.5 - 15.0	A-7-5 (20)	100.0	100.0	92.3	0.4	7.3	11.8	80.5	23	7	ND	17.5
L 405+50	SS-224	405+50	45' RT	L	475370	1895941	3.5 - 5.0	A-2-4	100.0	60.0	32.0	54.0	14.0	8.0	24.0	36	10	ND	14.2
L 411+00	SS-1743	411+00	35' RT	L	474941	1896292	0.0 - 1.5	A-2-4	100.0	69.0	26.6	50.0	25.0	3.0	22.0	23	7	ND	17.5
L 413+00	SS-34	413+00	28' LT	L	474828	1896468	0.3 - 1.8	A-2-6 (0)	100.0	51.0	27.0	61.0	12.0	1.0	26.0	30	13	ND	7.0
L 419+50	SS-47	419+50	25' LT	L	474327	1896882	14.5 - 15.0	A-2-4	97.0	66.0	27.0	46.3	26.3	9.1	18.2	33	8	7.0	56.0
L 421+75	SS-1750	421+90	30' RT	L	474107	1896993	0.0 - 1.5	A-2-4	100.0	76.0	21.5	36.1	42.4	9.4	12.1	30	NP	2.5	32.1
L 431+00	SS-234	431+00	10' RT	L	473421	1897591	3.5 - 5.0	A-7-5(20)	100.0	99.0	96.6	2.0	2.0	31.0	65.0	59	25	ND	27.5
L 441+00	SS-1070	441+00	10' RT	L	472620	1898188	0.0 - 1.5	A-2-6 (1)	100.0	62.0	26.4	44.4	29.1	0.3	26.1	36	16	ND	16.0
L 451+10	SS - 1096	451+10	0' CL	L	471785	1898756	0.0 - 2.0	A-2-4	99.0	52.0	10.9	66.0	24.0	2.0	8.0	19	NP	ND	5.8
L 455+00	SS-251	455+00	70' LT	L	471498	1899028	3.5 - 5.0	A-2-6(0)	96.0	69.0	27.4	60.0	12.0	2.0	26.0	32	12	ND	10.6
L 471+00	SS-258	471+00	70' LT	L	470161	1899908	3.5 - 5.0	A-2-6(0)	99.0	69.0	27.3	50.0	23.0	1.0	26.0	32	12	ND	16.4
L 485+75	SS - 1136	485+75	75' LT	L	468969	1900759	0.0 - 1.5	A-3	100.0	58.0	8.1	71.0	22.0	1.0	6.0	16	NP	ND	3.9
L 502+00	SS-1145	502+00	1' RT	L	467670	1901739	8.5 - 10.0	A-6 (2)	100.0	81.0	38.0	39.0	24.0	4.0	34.0	36	15	ND	17.0
L 508+00	SS-274	508+00	75' LT	L	467257	1902181	0 - 1.5	A-2-4	100.0	56.0	14.8	63.0	22.0	9.0	6.0	16	NP	ND	12.3
L 512+10	SS-1155	512+10	0' CL	L	466889	1902379	3.5 - 5.0	A-2-6 (0)	100.0	82.0	33.0	45.0	22.0	1.0	32.0	33	11	ND	15.0
L 520+25	SS-1164	520+25	70' LT	L	466257	1902900	3.5 - 5.0	A-7-6 (3)	99.0	83.0	41.0	36.0	23.0	7.0	34.0	41	17	ND	19.0
L 527+00	SS-282	527+00	40' RT	L	465637	1903188	3.5 - 5.0	A-2-4	100.0	76.0	19.4	47.0	33.0	5.0	14.0	20	NP	ND	13.5
L 541+00	SS-1177	541+00	75' LT	L	464543	1904069	3.5 - 5.0	A-2-4	100.0	93.0	33.0	36.2	31.3	6.4	26.1	27	10	ND	17.0
L 549+67	SS-100	549+67	40' LT	L	463806	1904527	1.2 - 2.7	A-2-4	100.0	75.0	29.0	49.0	23.0	0.0	28.0	25	7	ND	13.0
L 554+00	SS-104	554+00	34' LT	L	463445	1904765	1.2 - 2.7	A-2-6 (0)	97.0	52.0	25.0	61.0	14.0	1.0	24.0	32	14	ND	8.0
L 558+00	SS-292	558+00	40' RT	L	463072	1904929	0 - 1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.9	87.8
L 560+00	SS-1191	560+00	0' CL	L	462929	1905074	0.0 - 1.5	A-2-4	100.0	75.0	24.0	48.5	27.4	10.0	14.2	23	NP	ND	27.0
L 566+00	SS-302	566+00	15' RT	L	462451	1905381	3.5 - 5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.8	191.8
L 568+00	SS-125	568+00	30' RT	L	462250	1905499	0.0 - 1.5	A-4 (0)	99.0	82.0	38.0	32.0	30.0	6.0	32.0	29	9	ND	27.0
L 572+00	SS-130	572+00	0' CL	L	461936	1905748	3.5 - 5.0	A-7-6 (9)	100.0	85.0	52.0	29.0	19.0	12.0	40.0	45	24	ND	17.0
L 593+00	SS - 1214	593+00	70' LT	L	460106	1906777	0.0 - 1.5	A-3	100.0	80.0	6.4	52.0	43.0	1.0	4.0	20	NP	ND	4.8
L 603+00	SS - 116	603+00	45' LT	L	459172	1907134	1.2 - 2.7	A-3	100.0	69.0	6.1	58.8	35.1	2.1	4.0	16	NP	ND	5.2

Boring No.	Sample No.	Station No.	Offset	Alignment	Northing	Easting	Sample Depth (ft)	AASHTO Classification	% PASSING SIEVE			% BY WEIGHT				LL	PI	% ORGANIC	% MOISTURE
									10	40	200	C. SAND	F. SAND	SILT	CLAY				
L 649+00	SS-160	649+00	55' LT	L	456792	1910744	1.2 - 2.7	A-2-6 (1)	99.0	64.0	32.0	53.0	15.0	2.0	30.0	37	18	ND	14.0
L 657+00	SS-164	657+00	55' LT	L	456730	1911539	1.2 - 2.7	A-7-6 (8)	99.0	74.0	45.0	40.0	15.0	3.0	42.0	50	29	ND	15.0
L 665+00	SS-1253	665+00	30' RT	L	456586	1912331	0.0 - 1.5	A-6 (3)	99.0	84.0	56.0	26.0	18.0	20.0	36.0	28	11	ND	16.0
L 665+00	SS-1253A	665+00	30' RT	L	456586	1912331	0.0 - 1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND
L 667+00	SS-1257	667+00	0' CL	L	456603	1912512	0.0 - 1.5	A-4 (0)	100.0	65.0	37.0	50.0	13.0	17.0	20.0	27	8	5.0	12.0
L 671+00	SS-1069	671+00	30' LT	L	456626	1912939	3.5 - 5.0	A-2-4	100.0	75.0	28.8	48.0	23.0	7.0	22.0	19	5	ND	17.0
L 673+00	SS-1260	673+00	93' LT	L	456650	1913137	0.0 - 1.5	A-2-4	99.0	74.0	32.0	42.0	26.0	12.0	20.0	18	4	ND	13.0
L 677+00	SS-1264	677+00	25' RT	L	456490	1913524	3.5 - 5.0	A-2-6(1)	99.8	68.8	30.6	46.9	22.4	4.5	26.1	34	15	ND	ND
L 688+00	SS-343	688+00	85' LT	L	456284	1914610	3.5 - 5.0	A-6(4)	100.0	84.0	43.2	28.0	29.0	11.0	32.0	40	19	ND	19.2
L 690+33	SS-1269	690+33	15' RT	L	456113	1914797	0.0 - 1.5	A-6(2)	98.0	77.0	35.6	36.2	28.2	5.4	30.2	31	15	ND	0.2
L 692+35	SS-1272	692+35	35' RT	L	456028	1914981	0.0 - 1.5	A-4(0)	96.7	72.9	42.3	35.8	21.8	8.3	34.0	38	NP	ND	ND
L 695+00	SS-1247	695+00	90' LT	L	456050	1915277	3.5 - 5.0	A-2-7(3)	95.0	62.0	32.4	48.0	18.0	6.0	28.0	46	25	ND	19.1
L 697+00	SS-176	697+00	45' LT	L	455918	1915441	3.5 - 5.0	A-7-6 (4)	91.0	71.0	40.2	34.3	25.5	5.9	34.3	43	25	ND	16.0
L 701+00	SS-1276	701+00	30' RT	L	455626	1915726	3.5 - 5.0	A-6(4)	99.6	77.8	35.7	36.9	27.4	3.7	32.0	39	23	ND	ND
L 709+00	SS-1281	709+00	40' RT	L	455057	1916285	0.0 - 1.5	A-4(1)	99.7	85.3	39.3	29.0	31.7	11.0	28.3	24	10	ND	14.0
L 711+20	SS-1241	711+20	100' LT	L	454999	1916540	3.5 - 5.0	A-7-5(6)	94.0	74.0	47.0	32.0	18.0	8.0	42.0	49	18	ND	23.6
L 713+33	SS-1287	713+30	84' LT	L	454839	1916676	0.0 - 1.5	A-4(0)	95.6	72.9	43.7	34.1	22.2	7.6	36.1	35	NP	ND	17.4
L 715+67	SS-185	715+67	35' LT	L	454636	1916808	1.2 - 2.7	A-2-4	100.0	74.0	31.0	41.0	28.0	9.0	22.0	15	4	ND	8.0
L 718+00	SS-346	718+00	30' RT	L	454424	1916926	3.5 - 5.0	A-6(1)	99.0	78.0	39.1	38.0	22.0	9.0	30.0	35	11	ND	16.1
L 720+25	SS-1290	720+25	10' RT	L	454279	1917098	0.0 - 1.5	A-2-4	99.2	65.3	31.7	50.5	17.8	3.7	28.0	30	NP	ND	ND
L 722+50	SS-1294	722+50	40' RT	L	454098	1917235	0.0 - 1.5	A-2-4	98.6	69.4	32.4	47.6	20.0	4.3	28.1	27	NP	ND	17.7
L 731+67	SS-1302	731+73	14' RT	L	453460	1917903	0.0 - 1.5	A-4(0)	99.3	67.0	33.0	49.3	17.9	14.9	18.0	30	NP	ND	18.6
L 736+00	SS-189	736+00	35' LT	L	453191	1918238	1.2 - 2.7	A-7-6 (6)	94.0	71.0	43.6	40.0	17.0	13.0	30.0	45	29	ND	20.0
L 738+00	SS-1305	738+00	30' RT	L	453004	1918334	0.0 - 1.5	A-4(0)	99.8	60.6	42.4	42.8	19.5	21.7	16.0	25	NP	ND	ND
L 740+20	SS-1308	740+20	40' RT	L	452850	1918498	0.0 - 1.5	A-4(0)	99.5	77.3	40.5	35.6	24.0	10.3	30.2	20	NP	ND	18.8
L 744+25	SS-1312	744+25	75' LT	L	452757	1918904	0.0 - 1.5	A-6(5)	100.0	77.4	45.6	40.7	15.2	6.0	38.0	40	19	ND	19.9
L 746+50	SS-1315	746+50	30' RT	L	452575	1919072	0.0 - 1.5	A-2-4	99.8	77.9	22.7	42.3	34.9	10.7	12.0	15	NP	ND	ND
L 748+75	SS-1318	748+75	65' LT	L	452575	1919317	0.0 - 1.5	A-6(3)	99.3	81.3	46.5	28.6	24.9	14.4	32.1	30	12	ND	18.1
L 755+00	SS-1324	755+00	15' RT	L	452250	1919857	0.0 - 1.5	A-4(1)	99.7	76.9	37.3	36.9	25.8	11.2	26.1	23	10	ND	ND
L 757+00	SS-195	757+00	30' LT	L	452211	1920058	1.0 - 2.5	A-7-6 (13)	100.0	87.0	57.0	22.0	21.2	12.5	44.4	51	29	ND	20.0
L 759+00	SS-349	759+00	30' RT	L	452075	1920218	0 - 1.5	A-6(0)	98.0	75.0	35.5	39.0	25.0	10.0	26.0	24	11	ND	15.5
L 761+00	SS-199	761+00	30' LT	L	452050	1920425	3.5 - 5.0	A-7-6 (6)	98.0	72.0	42.0	40.0	18.0	6.0	36.0	43	28	ND	13.0
L 765+00	SS-202	765+00	30' LT	L	451901	1920794	3.5 - 5.0	A-7-6 (10)	94.0	80.0	59.5	24.0	16.0	7.0	53.0	50	22	ND	21.0
L 767+00	SS-353	767+00	40' RT	L	451769	1920961	3.5 - 5.0	A-7-5(12)	98.0	87.0	64.4	19.0	15.0	2.0	64.0	54	19	ND	25.1
L 773+00	SS-1333	773+00	70' LT	L	451706	1921567	0.0 - 1.5	A-4(1)	95.6	77.1	49.4	30.5	20.2	15.2	34.0	29	6	ND	24.5
L 778+90	SS-272	778+90	25' RT	L	451453	1922109	0.0 - 1.5	A-7-6 (8)	98.0	77.0	47.0	35.0	18.0	11.0	36.0	45	27	ND	15.0
L 781+00	SS-208	781+00	35' LT	L	451453	1922327	3.5 - 5.0	A-7-6 (7)	95.0	74.0	47.0	34.0	17.0	9.0	40.0	45	23	ND	18.0
L 787+00	SS-1342	787+00	40' RT	L	451217	1922884	0.0 - 1.5	A-4(0)	99.9	80.4	45.7	34.8	21.5	5.6	38.1	28	NP	ND	12.9
L 799+00	SS-1204	799+00	28' LT	L	450949	1924055	3.5 - 5.0	A-7-6(4)	99.0	83.0	46.5	29.0	24.0	9.0	38.0	42	15	ND	18.6
L 801+00	SS-1351	801+00	35' RT	L	450839	1924232	0.0 - 1.5	A-4(0)	99.6	80.0	32.4	35.6	33.0	6.9	24.5	29	NP	ND	ND
L 803+00	SS-261	803+00	65' LT	L	450881	1924452	3.5 - 5.0	A-6 (6)	100.0	85.0	49.3	26.2	24.4	13.0	36.4	38	20	6.0	21.0
L 805+00	SS-258	805+00	5' RT	L	450759	1924625	3.5 - 5.0	A-7-6 (11)	100.0	87.0	58.0	23.0	19.0	20.0	38.0	48	23	ND	23.0
L 807+00	SS-1207	807+00	33' LT	L	450735	1924826	3.5 - 5.0	A-6(7)	100.0	85.0	54.1	25.0	21.0	22.0	32.0	34	19	ND	20.1
L 809+00	SS-1354	809+00	40' RT	L	450616	1925000	0.0 - 1.5	A-4(0)	99.5	80.6	48.0	29.4	23.7	12.9	34.0	28	NP	ND	9.7
L 811+00	SS-254	811+00	75' LT	L	450672	1925224	3.5 - 5.0	A-7-6 (13)	100.0	86.0	58.5	22.5	19.0	18.1	40.4	47	27	ND	27.0
L 813+00	SS-250	813+00	35' RT	L	450511	1925386	0.0 - 1.5	A-7-6 (18)	100.0	87.0	60.0	22.0	18.0	10.0	50.0	53	35	ND	19.0
L 817+33	SS-247	817+33	20' RT	L	450407	1925807	0.0 - 1.5	A-7-6 (12)	100.0	85.0	58.0	24.0	18.0	9.0	49.0	44	27	ND	17.0

Boring No.	Sample No.	Station No.	Offset	Alignment	Northing	Easting	Sample Depth (ft)	AASHTO Classification	% PASSING SIEVE			% BY WEIGHT				LL	PI	% ORGANIC	% MOISTURE
									10	40	200	C. SAND	F. SAND	SILT	CLAY				
L 819+67	SS-238	819+67	45' RT	L	450322	1926027	0.0 - 1.5	A-7-6 (18)	100.0	90.0	68.0	17.0	15.0	17.0	51.0	55	28	ND	26.0
L 822+00	SS-1231	822+00	70' LT	L	450377	1926281	3.5 - 5.0	A-7-6(6)	100.0	84.0	53.4	27.0	20.0	13.0	40.0	44	16	ND	23.3
L 824+10	SS-210	11+60	8' LT	L	450174	1926449	1.0 - 2.5	A-6 (6)	99.0	83.0	53.0	25.0	21.0	13.0	40.0	31	17	ND	11.0
L 828+75	SS-236	828+75	40' RT	L2B	450111	1926910	3.5 - 5.0	A-7-6 (15)	100.0	88.0	63.0	20.0	17.0	10.0	53.0	53	26	ND	25.0
L 831+00	SS-1212	831+00	5' RT	L2B	450085	1927137	1.1 - 2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5
L 833+00	SS-215	833+00	3' RT	L2B	450033	1927329	5.0 - 6.5	A-6 (4)	100.0	87.0	51.6	24.3	24.2	31.4	20.1	29	14	ND	15.0
L 834+50	SS-1215	834+50	20' LT	L2B	450015	1927479	0 - 1.5	A-4(0)	99.0	85.0	45.0	28.0	27.0	31.0	14.0	15	3	ND	20.4
Y11B 11+50	SS-1058	11+50	5' RT	Y11B	475668	1895708	13.5 - 15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.1
Y11D 12+50	SS-28	12+50	18' LT	Y11D	475488	1895543	3.5 - 5.0	A-7-6 (20)	99.0	97.0	86.0	6.0	8.0	12.0	74.0	58	32	ND	26.0
Y17 11+80	SS-1170	11+80	35' LT	Y17	465311	1903677	0.0 - 1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.0	ND
Y18 13+20	SS-1202	13+20	25' RT	Y18	461270	1905886	0.0 - 1.5	A-2-4	100.0	74.0	20.1	50.0	32.5	1.5	16.0	14	NP	ND	15.0
Y22 10+50	SS-193	10+50	0' CL	Y22	452324	1919227	3.5 - 5.0	A-6 (0)	99.0	71.0	37.0	45.0	18.0	19.0	18.0	26	11	ND	15.0
Y23 12+00	SS-270	12+00	20' LT	Y23	451441	1922958	3.5 - 5.0	A-7-6 (6)	99.0	79.0	50.7	32.9	16.5	6.2	44.5	43	19	ND	19.0
Y24 13+00	SS-1348	13+00	51' RT	Y24	450777	1923514	0.0 - 1.5	A-7-6(7)	99.8	79.6	45.0	31.8	23.7	10.3	34.2	42	24	ND	ND
Y24 15+00	SS-1201	14+90	27' RT	Y24	450941	1923648	3.5 - 5.0	A-6(1)	100.0	81.0	38.1	35.0	27.0	12.0	26.0	33	13	ND	15.0
Y26 12+00	SS-233	12+00	55' LT	Y26	450454	1926434	3.5 - 5.0	A-6 (2)	100.0	81.0	46.0	33.0	21.0	10.0	36.0	37	11	ND	19.0
Y26 18+54	SS-223	18+54	25' LT	Y26	451087	1926651	0.0 - 1.5	A-4 (0)	100.0	85.0	41.0	31.0	28.0	17.0	24.0	22	9	ND	13.0
Y26 25+00	SS-217	25+00	4' LT	Y26	451380	1927256	0.8 - 2.3	A-7-6 (9)	100.0	83.0	49.0	30.0	21.0	13.0	36.0	49	26	ND	18.0
Y26 23+00	SS-1225	23+00	0 CL	Y26	450926	1926540	3.5 - 5.0	A-5(2)	99.0	81.0	48.5	29.0	23.0	10.0	38.0	43	9	ND	19.1
Y26 27+00	SS-1227	27+00	0 CL	Y26	451394	1927455	0 - 1.5	A-6(5)	100.0	86.0	50.1	27.0	23.0	12.0	38.0	39	15	ND	19.0
Y26A 12+30	SS-226	12+30	0' CL	Y26A	451276	1926547	0.0 - 1.5	A-6 (3)	100.0	80.0	37.0	36.0	27.0	9.0	28.0	38	20	ND	15.0
Y26A 14+60	SS-245	14+60	40' LT	Y26A	451496	1926454	3.5 - 5.0	A-7-6 (14)	100.0	81.0	50.4	30.5	19.2	16.2	34.1	56	36	ND	19.0