

NOTE: SEE SHEET 2A FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

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

ROADWAY
SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 34440.1.1 (R-2510C) F.A. PROJ. MAF-75-3 (26)
COUNTY BEAUFORT
PROJECT DESCRIPTION US 17 FROM US 17 SOUTH OF SR 1001 (CHERRY RUN RD.) TO NORTH OF NC 171

INVENTORY

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | R-2510C | 1 | 114 |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 34440.1.1 | MAF-75-3 (26) | P.E. | |
| 34440.2.GV1 | NHF-0017 (69) | RW & UTIL | |
| 34440.3.6 | NHF-0017 (87) | CONS | |

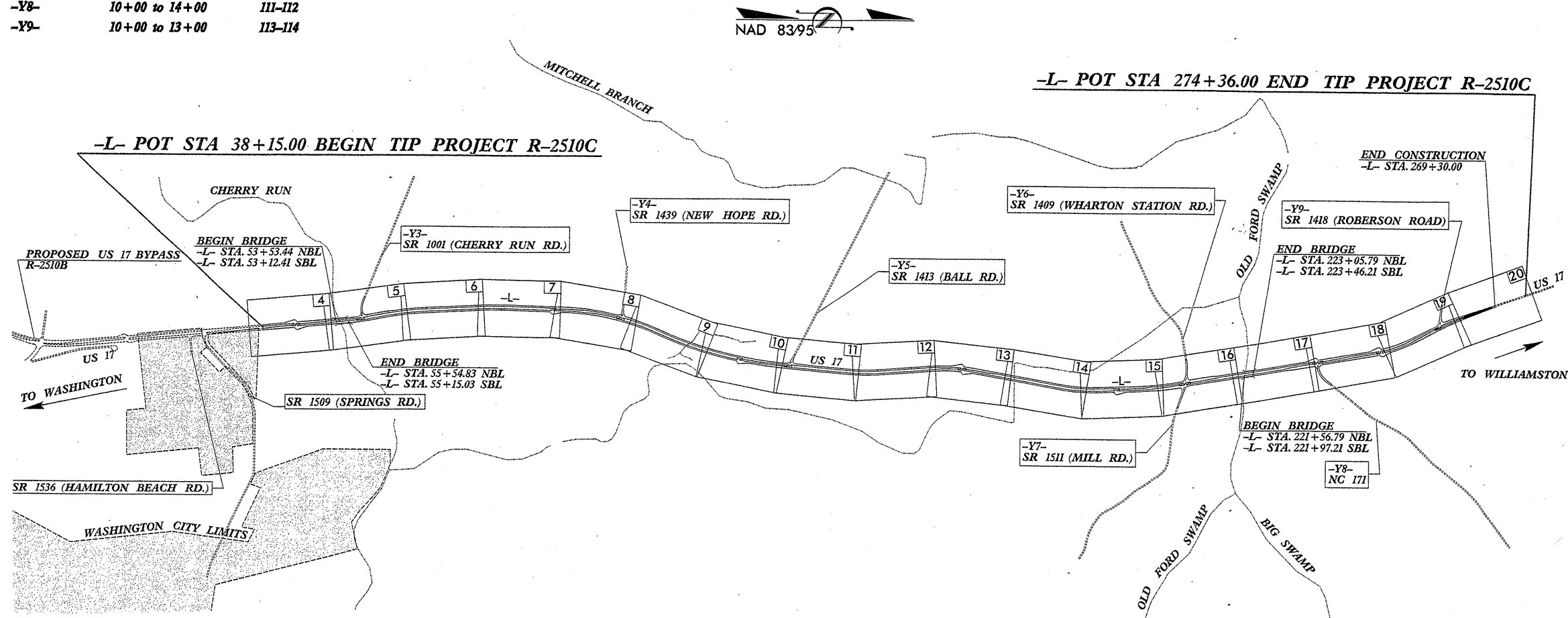
CAUTION NOTICE

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) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE PART OF THE CONTRACT.

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

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

CONTRACT: C202242 ID: R-2510C



PERSONNEL
S&ME

KBQ

RES

LWD

WNC

INVESTIGATED BY **J. L. STONE**

CHECKED BY **D. N. ARGENBRIGHT**

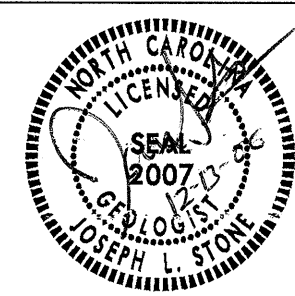
SUBMITTED BY **D. N. ARGENBRIGHT**

DATE **DECEMBER, 2006**

DRAWN BY: **C. M. KENT**

NOTE - THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IT IS CONSIDERED TO BE PART OF THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE PROJECT.

NOTE - 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.



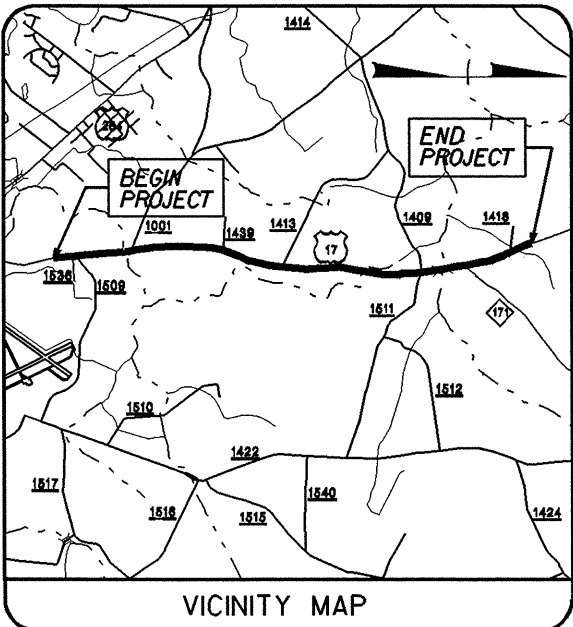
| | | | |
|-----------------|-----------------------------|-------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | R-2510C | 2A | 114 |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 34440.1.1 | MAF-75-3 (26) | P.E. | |
| | | | |
| | | | |
| | | | |

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

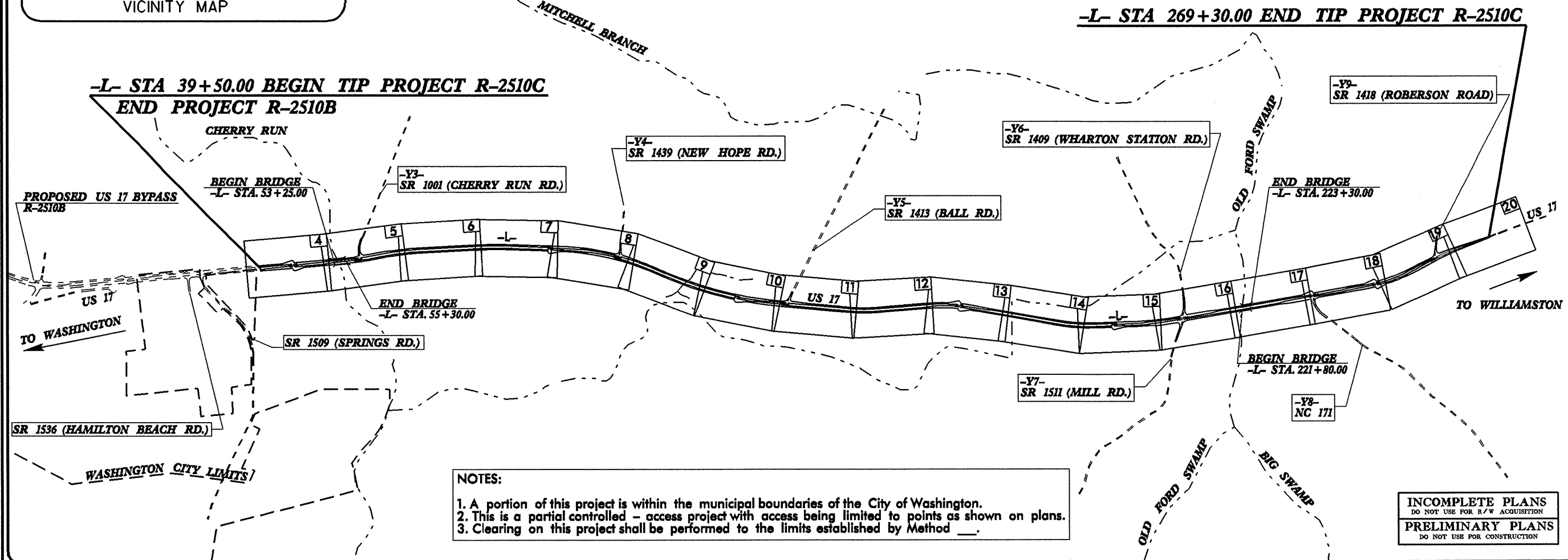
LOCATION: US 17 FROM US 17 SOUTH OF SR 1001 (CHERRY RUN ROAD) TO NORTH OF NC 171.

TYPE OF WORK: GRADING, DRAINAGE, PAVING, RESURFACING, CULVERT AND STRUCTURE



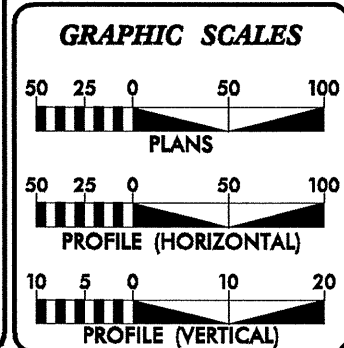
TIP PROJECT: R-2510C

CONTRACT: R-2510C



NOTES:
 1. A portion of this project is within the municipal boundaries of the City of Washington.
 2. This is a partial controlled - access project with access being limited to points as shown on plans.
 3. Clearing on this project shall be performed to the limits established by Method ____.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

| | |
|-----------------------|--------|
| ADT 2010 = | 11,280 |
| ADT 2030 = | 18,400 |
| DHV = | 10% |
| D = | 55% |
| T = | 11% * |
| V = | 60 MPH |
| CLASS=RURAL ARTERIAL | |
| * (TTST 7% + DUAL 4%) | |

PROJECT LENGTH

| | |
|---------------------------------|-----------|
| <i>Length Roadway</i> | |
| TIP Project R-2510C | 4.304 Mi. |
| <i>Length Structure*</i> | |
| TIP Project R-2510C | 0.067 Mi. |
| TOTAL LENGTH TIP | |
| Project R-2510C | 4.371 Mi. |
| *Length Based on SBL Structures | |

PLANS PREPARED BY:
 RUMMEL, KLEPPER & KAHL, LLP
 Consulting Engineers
 900 RIDGEFIELD DRIVE, SUITE 350
 RALEIGH, NORTH CAROLINA 27609
 (919) 878-9560

DIVISION OF HIGHWAYS

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
6/2006 (PROD.)

LETTING DATE:

B. Keith Skinner, P.E.
PROJECT ENGINEER

Michael T. Merritt, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

20-NOV-2006 15:52 I:\ERD\Green\TIP\R2510C_GEO_RDWY\CADD_GEO\TECH\PlanProf\R2510c_geo_title.dgn



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

December 13, 2006

STATE PROJECT: 34440.1.1 (R-2510C)
F.A. PROJECT: MAF-75-3 (26)
COUNTY: Beaufort

DESCRIPTION: US 17 from US 17 south of SR 1001 (Cherry Run Rd.) to north of NC 171

SUBJECT: Geotechnical Inventory

Project Description

The project area lies just north of the city of Washington along existing US 17, beginning at the northern terminus of R-2510B, (Sta. 39+50), and extending northward approximately 4.3 miles to 0.6 miles north of NC 171 (Sta. 269+30.) This project consists primarily of the widening of existing US 17 from two lanes to four, with medians and turn lanes. This will be accomplished through the addition of two new travel lanes to the east of existing US 17 from Sta. 39+50 to Sta. 206+50 and to the west of existing US 17 from Sta. 206+50 to 269+30. The intersection of NC 171 will be realigned to accommodate this change. Additionally, slight widening is proposed for intersecting -Y- lines.

The geotechnical field investigation was completed in October and November of 2005. Borings were advanced with an ATV mounted BK-51 drill machine with an automatic hammer. Standard penetration tests were performed in selected borings. Hand auger borings were also completed. Representative soil samples were collected for visual classification in the field and for laboratory analysis by the Materials and Tests Unit.

The following alignments, totaling 4.3 miles were investigated. Subsurface profiles or cross sections of these alignments are included in this report.

| <u>Line</u> | <u>Station (±)</u> |
|-------------|--------------------|
| -L- | 39+50 to 269+30 |
| -Y3- | 10+00 to 15+43 |
| -Y4- | 10+00 to 14+75 |
| -Y5- | 13+30 to 15+80 |
| -Y6- | 10+50 to 14+99 |
| -Y7- | 10+00 to 14+50 |
| -Y8- | 10+00 to 15+05 |
| -Y9- | 10+00 to 14+25 |

Areas of Special Geotechnical Interest

- 1) The entire project except the following section contains cohesive soils which have the potential to cause embankment stability and/or long term settlement problems:

| <u>Line</u> | <u>Station (±)</u> |
|-------------|--------------------|
| -Y3- | 10+00 to 15+43 |

- 2) The following section contains relatively soft, slightly organic soils, which have the potential for subgrade problems during construction.

| <u>Line</u> | <u>Station (±)</u> |
|-------------|--------------------|
| -L- | 223+75 to 228+90 |

- 3) The entire project was found to exhibit seasonal high ground water.
- 4) An existing water supply well was encountered within proposed construction limits at the following location.

| <u>Line</u> | <u>Station(±)</u> | <u>Offset(±)</u> |
|-------------|-------------------|------------------|
| -L- | 154+40 | 72' right |

- 5) A small seep was noted in the vicinity of the following station.

| <u>Line</u> | <u>Station(±)</u> | <u>Offset(±)</u> |
|-------------|-------------------|------------------|
| -L- | 236+00 | 30' left |

Physiography and Geology

This project corridor is located within the Coastal Plain Physiographic Province. Topography along the project is nearly flat to gently sloping and generally exhibits poor surface drainage. Elevations ranged from 20± to 46± feet in upland areas to -2± to 25± feet in the flood plains. Surface waters from this area flow southwest into the various tributaries of Tranters Creek, and ultimately into the Tar/Pamlico River.

Surficial soils in this area are generally derived from alluvial deposition and the weathering of existing formational material. Alluvial soils are restricted to areas in and around stream crossings, while the upland sections are composed primarily of oxidized formational soils. These surface units are underlain by the Pliocene marine deposits of the Yorktown Formation.

Ground Water

Ground water data was collected during October and November 2005, during a time of above normal precipitation. Ground water elevations ranged from 5± to 20± feet in the flood plains to 19± to 45± feet in upland areas.

Soils

Soils within this project area have been divided into four categories, alluvial soils, upland soils, formational soils, and roadway embankment soils.

Alluvial soils are found immediately adjacent to stream crossings. The alluvial sediments in the floodplain of Aggie Run Swamp consist of 2± to 8+ feet of very loose to loose silty sand (A-2-4) and 2± to 6± feet of soft sandy silt (A-4). Floodplain deposits in Old Ford Swamp consist of 5± feet of very soft to soft sandy clayey silt (A-5). Samples of these deposits were found to contain approximately 6.7 percent organic matter and have a natural moisture content of 19 to 30 percent. Vane Shear tests indicate strengths ranging from 63 psf to 1357 psf.

Upland soils within this project area have been derived from weathering of the underlying formational material. These soils are characterized by various degrees of oxidation, and primarily consist of 2± or more feet of soft to stiff sandy silt and sandy clayey silt (A-4, A-5). These units typically have greater than 50 percent passing the no. 200 sieve and exhibit non-plastic to low plastic characteristics. Vane shear tests indicate strengths ranging from 2506 psf to 5095 psf. These units have a natural moisture content of 10 percent to 21 percent. Underlying these silt rich horizons is 1± to 8 or more feet of very loose to medium dense sand and silty sand (A-3, A-2-4). Scattered within these silty and sandy units, localized clay rich horizons have been identified. Typically, these units consist of 4± to 8± feet of medium stiff to stiff sandy and silty clay (A-6, A-7-6). These soils generally have greater than 50 percent passing the no. 200 sieve and exhibit low to medium plasticity indexes.

Formational soils encountered belong to the Pliocene aged Yorktown Formation. This unit is composed of 10 or more feet of medium stiff sandy and silty clay (A-6, A-7-6), 10± feet of medium dense to dense silty sand (A-2-4) and some stiff sandy silt (A-4) layers. The cohesive units found within this formation have greater than 50 percent passing the no. 200 sieve, exhibit low plasticity indices and have a natural moisture content of 14 percent to 28 percent.

Roadway Embankment material was generally encountered along existing US 17 and consists of 3± to 7± feet of stiff sandy silt (A-4) and 2± feet of dense silty sand (A-2-4).

Undisturbed Samples

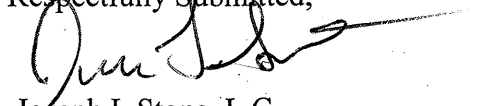
Undisturbed thin wall Shelby tube samples were collected at the following locations and submitted for testing.

| <u>Sample No.</u> | <u>Station</u> | <u>Depth</u> | <u>Test</u> |
|-------------------|----------------|--------------|----------------------------|
| ST-1 | 228+50, 30' LT | 0.0-2.0 | Consolidation |
| ST-2 | 119+00, 14' RT | 14.5-16.5 | Consolidation, Triaxial CU |

Culvert at -L- Station 119+00

Natural ground elevations range from 25± feet at the bottom of the ditch to 30± feet along the adjacent floodplain. Borings completed in the vicinity show approximately 5± feet of soft alluvial sandy silt (A-4) underlain by 19± feet of very soft to soft clayey silt (A-4) and 10± feet of medium dense silty sand (A-2-4). During this investigation groundwater was measured at an elevation of 25± feet.

Respectfully Submitted,



Joseph L. Stone, L.G.
Engineering Geologist II

EARTHWORK BALANCE SHEET

R-2510C

SHEET 1 OF 3

| LINE | STATION | STATION | EXCAVATION | | | | | EMBANKMENT | | | | BORROW | WASTE | | | | | |
|---------------------|-----------|-----------|----------------|----------|---------------|------------------|-------------------|---------------|----------|---------------|---------------|---------------|----------|-----------|----------------|-------|----------------|--|
| | | | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH | EMB. + 30% | | ROCK | SUITABLE | UNSUIT. | TOTAL | | |
| SUMMARY # 1 | | | | | | | | | | | | | | | | | | |
| -L- RT | 45+00.00 | 53+53.44 | 6,950 | 0 | 3,823 | 6,402 | 548 | 1,932 | 0 | 1,932 | 2,512 | 1,964 | 0 | 0 | 10,225 | | 10,225 | |
| SUMMARY 1 SUBTOTAL: | | | 6,950 | 0 | 3,823 | 6,402 | 548 | 1,932 | 0 | 1,932 | 2,512 | 1,964 | 0 | 0 | 10,225 | | 10,225 | |
| SUMMARY # 2 | | | | | | | | | | | | | | | | | | |
| -L- RT | 55+54.83 | 86+00.00 | 24,958 | 0 | 10,542 | 22,771 | 2,187 | 5,024 | 0 | 5,024 | 6,531 | 4,344 | 0 | 0 | 33,313 | | 33,313 | |
| SUMMARY 2 SUBTOTAL: | | | 24,958 | 0 | 10,542 | 22,771 | 2,187 | 5,024 | 0 | 5,024 | 6,531 | 4,344 | 0 | 0 | 33,313 | | 33,313 | |
| SUMMARY # 3 | | | | | | | | | | | | | | | | | | |
| -L- RT | 86+00.00 | 116+00.00 | 2,002 | 0 | 7,090 | 1,781 | 221 | 10,612 | 0 | 10,612 | 13,796 | 13,575 | 0 | 0 | 8,871 | | 8,871 | |
| SUMMARY 3 SUBTOTAL: | | | 2,002 | 0 | 7,090 | 1,781 | 221 | 10,612 | 0 | 10,612 | 13,796 | 13,575 | 0 | 0 | 8,871 | | 8,871 | |
| SUMMARY # 4 | | | | | | | | | | | | | | | | | | |
| -L- RT | 116+00.00 | 146+00.00 | 13,228 | 0 | 13,267 | 11,163 | 2,065 | 4,644 | 0 | 4,644 | 6,037 | 3,972 | 0 | 0 | 24,430 | | 24,430 | |
| SUMMARY 4 SUBTOTAL: | | | 13,228 | 0 | 13,267 | 11,163 | 2,065 | 4,644 | 0 | 4,644 | 6,037 | 3,972 | 0 | 0 | 24,430 | | 24,430 | |
| SUMMARY # 5 | | | | | | | | | | | | | | | | | | |
| -L- RT | 146+00.00 | 176+00.00 | 1,937 | 0 | 4,854 | 1,346 | 591 | 15,726 | 0 | 15,726 | 20,444 | 19,853 | 0 | 0 | 6,200 | | 6,200 | |
| SUMMARY 5 SUBTOTAL: | | | 1,937 | 0 | 4,854 | 1,346 | 591 | 15,726 | 0 | 15,726 | 20,444 | 19,853 | 0 | 0 | 6,200 | | 6,200 | |
| SUMMARY # 6 | | | | | | | | | | | | | | | | | | |
| -L- RT | 176+00.00 | 207+50.00 | 18,856 | 0 | 15,017 | 16,846 | 2,010 | 3,633 | 0 | 3,633 | 4,723 | 2,713 | 0 | 0 | 31,863 | | 31,863 | |
| -Y7- | 10+50.00 | 14+00.00 | 734 | 0 | 0 | 734 | 0 | 145 | 0 | 145 | 189 | 189 | 0 | 0 | 734 | | 734 | |
| SUMMARY 6 SUBTOTAL: | | | 19,590 | 0 | 15,017 | 17,580 | 2,010 | 3,778 | 0 | 3,778 | 4,912 | 2,902 | 0 | 0 | 32,597 | | 32,597 | |
| SUMMARY # 7 | | | | | | | | | | | | | | | | | | |
| -L- | 207+50.00 | 209+50.00 | 4,216 | 0 | 2,058 | 3,987 | 229 | 102 | 0 | 102 | 133 | | 0 | 96 | 6,045 | | 6,141 | |
| -L- LT | 209+50.00 | 221+97.21 | 4,478 | 0 | 5,731 | 3,292 | 1,186 | 4,064 | 0 | 4,064 | 5,283 | 4,097 | 0 | 0 | 9,023 | | 9,023 | |
| -Y6- | 11+00.00 | 14+49.96 | 1,401 | 0 | 0 | 857 | 544 | 487 | 0 | 487 | 633 | 89 | 0 | 0 | 857 | | 857 | |
| SUMMARY 7 SUBTOTAL: | | | 10,095 | 0 | 7,789 | 8,136 | 1,959 | 4,653 | 0 | 4,653 | 6,049 | 4,186 | 0 | 96 | 15,925 | | 16,021 | |
| SUMMARY # 8 | | | | | | | | | | | | | | | | | | |
| -L- LT | 223+46.21 | 253+00.00 | 6,435 | 0 | 12,096 | 3,790 | 2,645 | 13,802 | 0 | 13,802 | 17,943 | 15,298 | 0 | 0 | 15,886 | | 15,886 | |
| SUMMARY 8 SUBTOTAL: | | | 6,435 | 0 | 12,096 | 3,790 | 2,645 | 13,802 | 0 | 13,802 | 17,943 | 15,298 | 0 | 0 | 15,886 | | 15,886 | |
| SUMMARY # 9 | | | | | | | | | | | | | | | | | | |
| -L- LT | 253+00.00 | 270+15.00 | 4,290 | 0 | 3,676 | 3,588 | 702 | 5,164 | 0 | 5,164 | 6,713 | 6,011 | 0 | 0 | 7,264 | | 7,264 | |
| -Y9- | 10+35.00 | 13+77.29 | 237 | 0 | 0 | 237 | 0 | 815 | 0 | 815 | 1,060 | 1,060 | 0 | 0 | 237 | | 237 | |
| SUMMARY 9 SUBTOTAL: | | | 4,527 | 0 | 3,676 | 3,825 | 702 | 5,979 | 0 | 5,979 | 7,773 | 7,071 | 0 | 0 | 7,501 | | 7,501 | |
| SUBTOTALS: | | | 89,722 | 0 | 78,154 | 76,794 | 12,928 | 66,150 | 0 | 66,150 | 85,997 | 73,165 | 0 | 96 | 154,948 | | 155,044 | |

EARTHWORK BALANCE SHEET

R-2510C

SHEET 2 OF 3

| LINE | STATION | STATION | EXCAVATION | | | | | EMBANKMENT | | | | BORROW | WASTE | | | | | |
|----------------------|-----------|-----------|----------------|----------|--------------|------------------|-------------------|---------------|----------|---------------|---------------|---------------|----------|--------------|---------------|-------|---------------|---|
| | | | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH | EMB. + 30% | | ROCK | SUITABLE | UNSUIT. | TOTAL | | |
| SUMMARY # 10 | | | | | | | | | | | | | | | | | | |
| -L- LT | 50+00.00 | 53+12.41 | 0 | 0 | 0 | 0 | 0 | 343 | 0 | 343 | 446 | 446 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUMMARY 10 SUBTOTAL: | | | 0 | 0 | 0 | 0 | 0 | 343 | 0 | 343 | 446 | 446 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUMMARY # 11 | | | | | | | | | | | | | | | | | | |
| -L- LT | 55+15.03 | 86+00.00 | 6,555 | 0 | 0 | 4,192 | 2,363 | 893 | 0 | 893 | 1,161 | | 0 | 1,202 | 4,192 | | 5,394 | |
| -Y3- | 11+90.00 | 15+00.00 | 101 | 0 | 0 | 0 | 101 | 274 | 0 | 274 | 356 | 255 | 0 | 0 | 0 | | 0 | |
| SUMMARY 11 SUBTOTAL: | | | 6,656 | 0 | 0 | 4,192 | 2,464 | 1,167 | 0 | 1,167 | 1,517 | 255 | 0 | 1,202 | 4,192 | | 5,394 | |
| SUMMARY # 12 | | | | | | | | | | | | | | | | | | |
| -L- LT | 86+00.00 | 116+00.00 | 614 | 0 | 0 | 572 | 42 | 2,464 | 0 | 2,464 | 3,203 | 3,161 | 0 | 0 | 572 | | 572 | |
| -Y4- | 12+45.00 | 14+20.00 | 46 | 0 | 0 | 0 | 46 | 256 | 0 | 256 | 333 | 287 | 0 | 0 | 0 | | 0 | |
| SUMMARY 12 SUBTOTAL: | | | 660 | 0 | 0 | 572 | 88 | 2,720 | 0 | 2,720 | 3,536 | 3,448 | 0 | 0 | 572 | | 572 | |
| SUMMARY # 13 | | | | | | | | | | | | | | | | | | |
| -L- LT | 116+00.00 | 146+00.00 | 8,329 | 0 | 0 | 8,259 | 70 | 541 | 0 | 541 | 703 | 633 | 0 | 0 | 8,259 | | 8,259 | |
| -Y5- | 13+80.00 | 15+30.00 | 182 | 0 | 0 | 114 | 68 | 45 | 0 | 45 | 59 | | 0 | 10 | 114 | | 124 | |
| SUMMARY 13 SUBTOTAL: | | | 8,511 | 0 | 0 | 8,373 | 138 | 586 | 0 | 586 | 762 | 633 | 0 | 10 | 8,373 | | 8,383 | |
| SUMMARY # 14 | | | | | | | | | | | | | | | | | | |
| -L- LT | 146+00.00 | 176+00.00 | 3,830 | 0 | 0 | 2,913 | 917 | 5,123 | 0 | 5,123 | 6,660 | 5,743 | 0 | 0 | 2,913 | | 2,913 | |
| SUMMARY 14 SUBTOTAL: | | | 3,830 | 0 | 0 | 2,913 | 917 | 5,123 | 0 | 5,123 | 6,660 | 5,743 | 0 | 0 | 2,913 | | 2,913 | |
| SUMMARY # 15 | | | | | | | | | | | | | | | | | | |
| -L- LT | 176+00.00 | 207+50.00 | 7,323 | 0 | 0 | 6,632 | 691 | 1,065 | 0 | 1,065 | 1,385 | 694 | 0 | 0 | 6,632 | | 6,632 | |
| SUMMARY 15 SUBTOTAL: | | | 7,323 | 0 | 0 | 6,632 | 691 | 1,065 | 0 | 1,065 | 1,385 | 694 | 0 | 0 | 6,632 | | 6,632 | |
| SUMMARY # 16 | | | | | | | | | | | | | | | | | | |
| -L- RT | 209+50.00 | 221+56.79 | 2,423 | 0 | 0 | 2,234 | 189 | 247 | 0 | 247 | 321 | 132 | 0 | 0 | 2,234 | | 2,234 | |
| SUMMARY 16 SUBTOTAL: | | | 2,423 | 0 | 0 | 2,234 | 189 | 247 | 0 | 247 | 321 | 132 | 0 | 0 | 2,234 | | 2,234 | |
| SUMMARY # 17 | | | | | | | | | | | | | | | | | | |
| -L- RT | 223+05.79 | 253+00.00 | 3,152 | 0 | 0 | 1,731 | 1,421 | 1,303 | 0 | 1,303 | 1,694 | 273 | 0 | 0 | 1,731 | | 1,731 | |
| -Y8- | 10+50.00 | 14+55.00 | 938 | 0 | 1,105 | 758 | 180 | 323 | 0 | 323 | 420 | 240 | 0 | 0 | 1,863 | | 1,863 | |
| SUMMARY 17 SUBTOTAL: | | | 4,090 | 0 | 1,105 | 2,489 | 1,601 | 1,626 | 0 | 1,626 | 2,114 | 513 | 0 | 0 | 3,594 | | 3,594 | |
| SUMMARY # 18 | | | | | | | | | | | | | | | | | | |
| -L- RT | 253+00.00 | 270+15.00 | 4,308 | 0 | 0 | 3,872 | 436 | 750 | 0 | 750 | 975 | 539 | 0 | 0 | 3,872 | | 3,872 | |
| SUMMARY 18 SUBTOTAL: | | | 4,308 | 0 | 0 | 3,872 | 436 | 750 | 0 | 750 | 975 | 539 | 0 | 0 | 3,872 | | 3,872 | |
| SUBTOTALS: | | | 37,801 | 0 | 1,105 | 31,277 | 6,524 | 13,627 | 0 | 13,627 | 17,716 | 12,403 | 0 | 1,212 | 32,382 | | 33,594 | |

EARTHWORK BALANCE SHEET

SHEET 3 OF 3

| | EXCAVATION | | | | | EMBANKMENT | | | | BORROW | WASTE | | | |
|---------------------------------------------|----------------|------|----------|------------------|-------------------|------------|------|---------|---------|---------|-------|----------|---------|---------|
| | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH | EMB. | | ROCK | SUITABLE | UNSUIT. | TOTAL |
| PROJECT SUBTOTAL: | 127,523 | 0 | 79,259 | 108,071 | 19,452 | 79,777 | 0 | 79,777 | 103,713 | 85,568 | 0 | 1,308 | 187,330 | 188,638 |
| WASTE IN LIEU OF BORROW | | | | | | | | | | -1,308 | | -1,308 | | -1,308 |
| EST. SHOULDER MATERIAL | | | | | | 32,280 | | 32,280 | 41,964 | 41,964 | | | | |
| ADDITIONAL UNDERCUT | | | 5,000 | | | | | | | | | | 5,000 | 5,000 |
| EARTHWORK FOR EROSION CONTROL | | | | | | | | | | 420 | | | 420 | 420 |
| PROJECT TOTALS: | 127,523 | | 84,259 | 108,071 | 19,452 | 112,057 | | 112,057 | 145,677 | 126,644 | | 0 | 192,750 | 192,750 |
| EST. 5% FOR REPLACING TOPSOIL ON BORROW PIT | | | | | | | | | | 6,332 | | | | |
| GRAND TOTAL: | 127,523 | | 84,259 | | | | | | | 132,976 | | | | |
| SAY: | 128,000 | | 84,500 | | | | | | | 133,000 | | | | |
| DRAINAGE DITCH EXCAVATION (EST.) | 6,900 | | | | | | | | | | | | | |
| SHALLOW UNDERCUT (BY STATIONS) | | | 3,500 | | | | | | | | | | | |
| CONTINGENT UNDERCUT | | | 1,500 | | | | | | | | | | | |
| SHALLOW UNDERCUT FOR AGGREGATE SUBGRADE | | | 6,650 | | | | | | | | | | | |
| TOTAL SHALLOW UNDERCUT | | | 11,650 | | | | | | | | | | | |

EARTHWORK TOTALS FOR ALTERNATIVE PAVEMENT DESIGN

| | | | | | | | | | | | | | | |
|---------------------------------------------|---------|---|--------|---------|--------|---------|---|---------|---------|---------|---|--------|---------|---------|
| PROJECT SUBTOTAL: | 127,523 | 0 | 79,259 | 108,071 | 19,452 | 79,777 | 0 | 79,777 | 103,713 | 85,568 | 0 | 1,308 | 187,330 | 188,638 |
| ADJUSTMENT FOR ALTERNATIVE PAVEMENT DESIGN | -1,547 | | | | -1,547 | 12,137 | | 12,137 | 15,776 | 19,696 | | 2,373 | | 2,373 |
| WASTE IN LIEU OF BORROW | | | | | | | | | | -3,681 | | -3,681 | | -3,681 |
| EST. SHOULDER MATERIAL | | | | | | 21,989 | | 21,989 | 28,586 | 28,586 | | | | |
| ADDITIONAL UNDERCUT | | | 5,000 | | | | | | | | | | 5,000 | 5,000 |
| EARTHWORK FOR EROSION CONTROL | | | | | | | | | | 420 | | | 420 | 420 |
| PROJECT TOTALS: | 125,976 | | 84,259 | 108,071 | 17,905 | 113,903 | | 113,903 | 148,075 | 130,589 | | 0 | 192,750 | 192,750 |
| EST. 5% FOR REPLACING TOPSOIL ON BORROW PIT | | | | | | | | | | 6,529 | | | | |
| GRAND TOTAL: | 125,976 | | 84,259 | | | | | | | 137,118 | | | | |
| SAY: | 126,000 | | 84,500 | | | | | | | 137,500 | | | | |
| DRAINAGE DITCH EXCAVATION (EST.) | 6,900 | | | | | | | | | | | | | |
| SHALLOW UNDERCUT (BY STATIONS) | | | 3,500 | | | | | | | | | | | |
| CONTINGENT UNDERCUT | | | 1,500 | | | | | | | | | | | |
| SHALLOW UNDERCUT FOR AGGREGATE SUBGRADE | | | 6,650 | | | | | | | | | | | |
| TOTAL SHALLOW UNDERCUT | | | 11,650 | | | | | | | | | | | |

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

Note: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Note: Total embankment does not include backfill for undercut.

8/17/99

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Investigation\TIP\R2510C\Geo\ROADWAY\CADD\GEOTECH\PlanProf\R2510C_geo_psh_004.dgn

| | |
|-----------------------------------------------------------|-----------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 4 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

JOSEPH D. ARNOLD
DB 1300 - PG 734
MB 1 - PG 50

ORRIN K. LANGLEY, et al
DB 1077 - PG 507
DB 893 - PG 715

GOTHA W. WOOLARD ESTATE
(C/O) DEBORAH WOOLARD MITCHELL
DB 1127 - PG 863
DB 893 - PG 715
ESTATE FILE 03-E325

WILLIAM F. SHEPPARD, INC.
DB 1139 - PG 745
DB 893 - PG 715
5617-42-5578

SPRING ROAD
MOBILE ESTATES, INC.
DB 1378 PG 95

CHERRY RUN
AME ZION CHURCH
DB 102 PG 537

-L- Sta. 39+50 BEGIN TIP PROJECT R-2510C
END PROJECT R-2510B (DESIGN BUILD)

BILLY J. ARNOLD
DB 1300 - PG 742
PC F - SLIDE 21-T

LINDA B. LANCASTER
DB 725 - PG 377
MB 16 - PG 34

PARADISE OUTREACH MINISTRIES INC.
DB 1089 - PG 963

BILLY J. ARNOLD
DB 1300 - PG 742

ALL DRIVEWAY WIDTHS 16' AND
RADI 10' UNLESS OTHERWISE NOTED

SEE SHT. 21 FOR -L- PROFILE

ALL ISLANDS SHOWN ARE 5' MONOLITHIC
CONCRETE ISLAND (SURFACE MOUNTED)
STD. 852.01



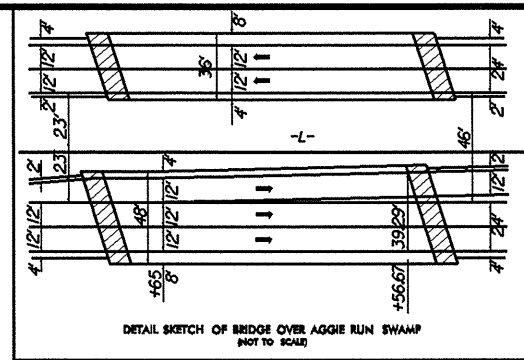
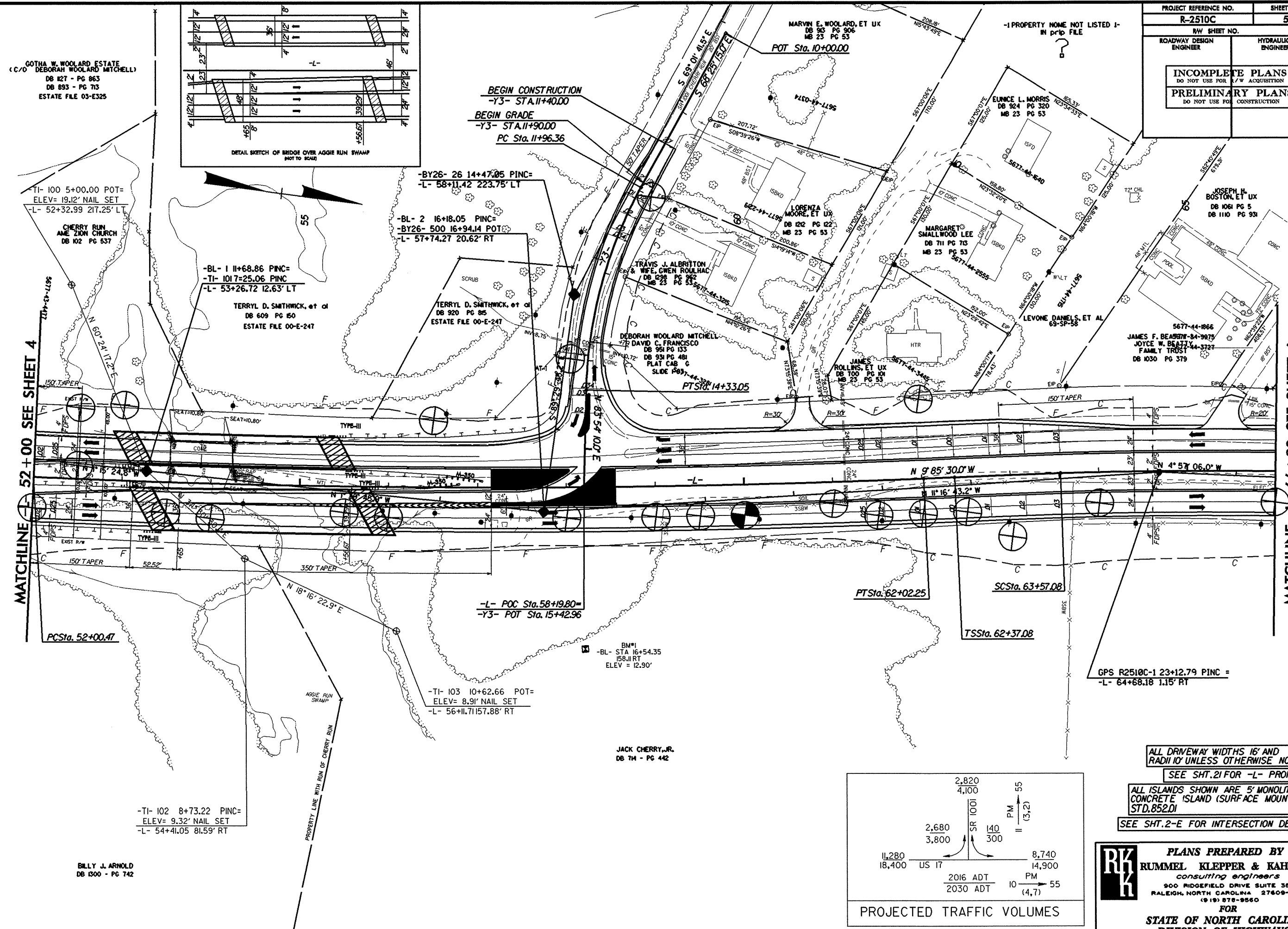
PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
900 RIDGEFIELD DRIVE SUITE 380
RALEIGH, NORTH CAROLINA 27608-3880
(919) 878-8560
FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MATCHLINE L- 52+00 SEE SHEET 5

8/17/99

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| | |
|------------------------------------------------------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 5 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



GOtha W. WOOLARD ESTATE
 (C/O DEBORAH WOOLARD MITCHELL)
 DB 127 - PG 863
 DB 893 - PG 713
 ESTATE FILE 03-E325

TI- 100 5+00.00 POT=
 ELEV= 19.12' NAIL SET
 -L- 52+32.99 217.25' LT

CHERRY RUN
 AME ZION CHURCH
 DB 102 PG 537

-BL- 1 11+68.86 PINC=
 -TI- 101 7+25.06 PINC
 -L- 53+26.72 12.63' LT

TERRY D. SMITHWICK, et al
 DB 609 PG 150
 ESTATE FILE 00-E-247

-BY26- 26 14+47.05 PINC=
 -L- 58+11.42 223.75' LT

-BL- 2 16+18.05 PINC=
 -BY26- 500 16+94.14 POT=
 -L- 57+74.27 20.62' RT

TERRY D. SMITHWICK, et al
 DB 920 PG 85
 ESTATE FILE 00-E-247

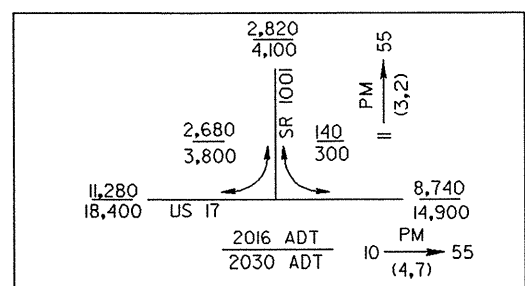
BM#
 -BL- STA 16+54.35
 158.11 RT
 ELEV = 12.90'

JACK CHERRY, JR.
 DB 714 - PG 442

-TI- 103 10+62.66 POT=
 ELEV= 8.91' NAIL SET
 -L- 56+11.71 157.88' RT

-TI- 102 8+73.22 PINC=
 ELEV= 9.32' NAIL SET
 -L- 54+41.05 81.59' RT

BILLY J. ARNOLD
 DB 1300 - PG 742



PROJECTED TRAFFIC VOLUMES

ALL DRIVEWAY WIDTHS 16' AND
 RADII 10' UNLESS OTHERWISE NOTED

SEE SHT. 2I FOR -L- PROFILE

ALL ISLANDS SHOWN ARE 5' MONOLITHIC
 CONCRETE ISLAND (SURFACE MOUNTED)
 STD. 852.01

SEE SHT. 2-E FOR INTERSECTION DETAIL

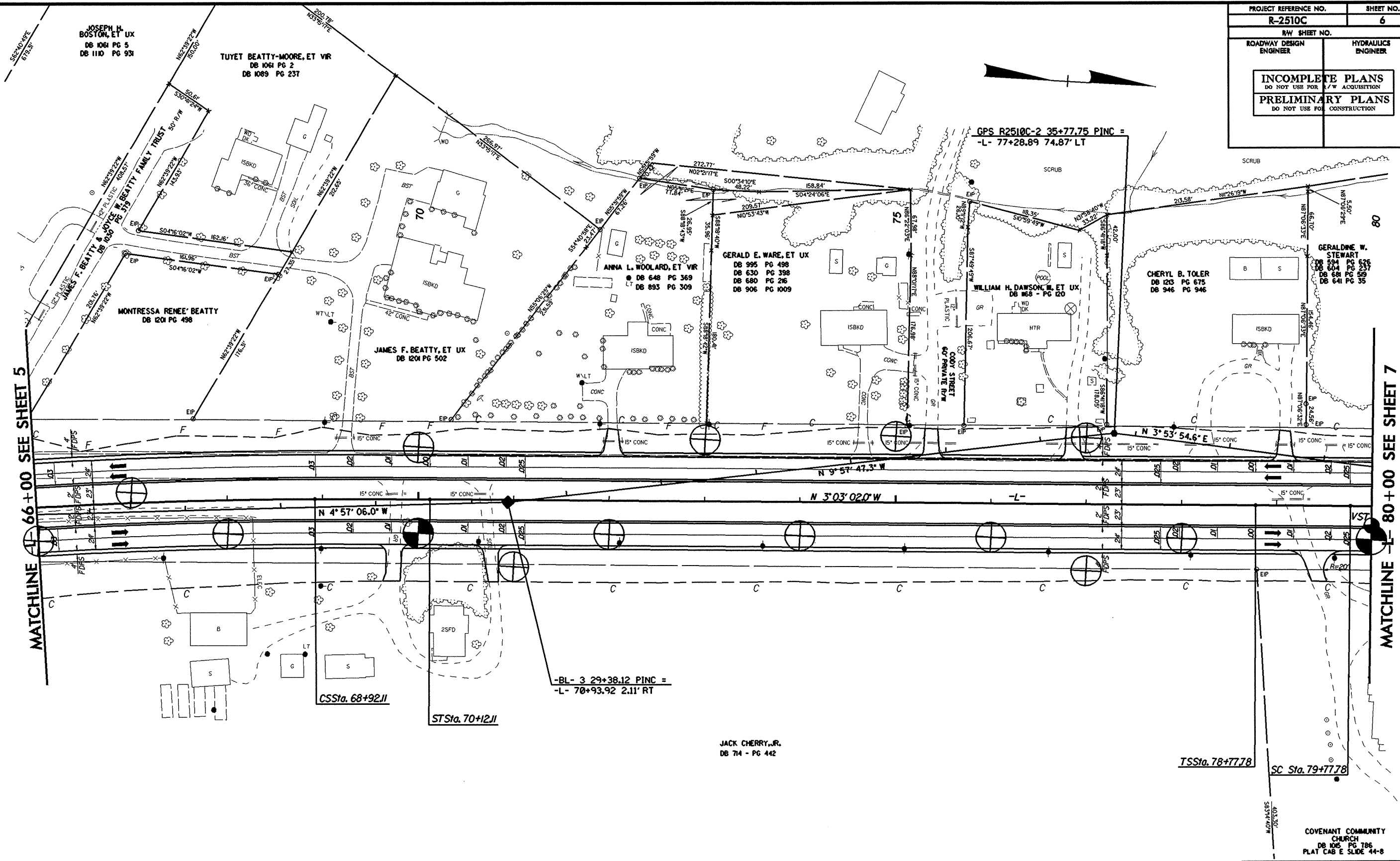
PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 360
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560

FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

8/17/99

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| | | | |
|----------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|
| PROJECT REFERENCE NO. R-2510C | | SHEET NO. 6 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| INCOMPLETE PLANS DO NOT USE FOR L/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | | | |



MATCHLINE 66+00 SEE SHEET 5

MATCHLINE 80+00 SEE SHEET 7

JOSEPH H. BOSTON, ET UX
DB 1061 PG 5
DB 1110 PG 931

TUYET BEATTY-MOORE, ET VIR
DB 1061 PG 2
DB 1089 PG 237

MONTRESSA RENEE BEATTY
DB 1201 PG 498

JAMES F. BEATTY, ET UX
DB 1201 PG 502

ANNA L. WOOLARD, ET VIR
DB 648 PG 369
DB 893 PG 309

GERALD E. WARE, ET UX
DB 995 PG 498
DB 630 PG 398
DB 680 PG 216
DB 906 PG 1009

GPS R2510C-2 35+77.75 PINC =
-L- 77+28.89 74.87' LT

WILLIAM H. DAWSON, ET UX
DB 168 - PG 120

CHERYL B. TOLER
DB 1203 PG 675
DB 946 PG 946

GERALDINE W. STEWART
DB 634 PG 535
DB 681 PG 519
DB 641 PG 35

-BL- 3 29+38.12 PINC =
-L- 70+93.92 2.11' RT

JACK CHERRY, JR.
DB 714 - PG 442

CSSSta. 68+92.11

STSta. 70+12.11

TSSSta. 78+77.78

SC Sta. 79+77.78

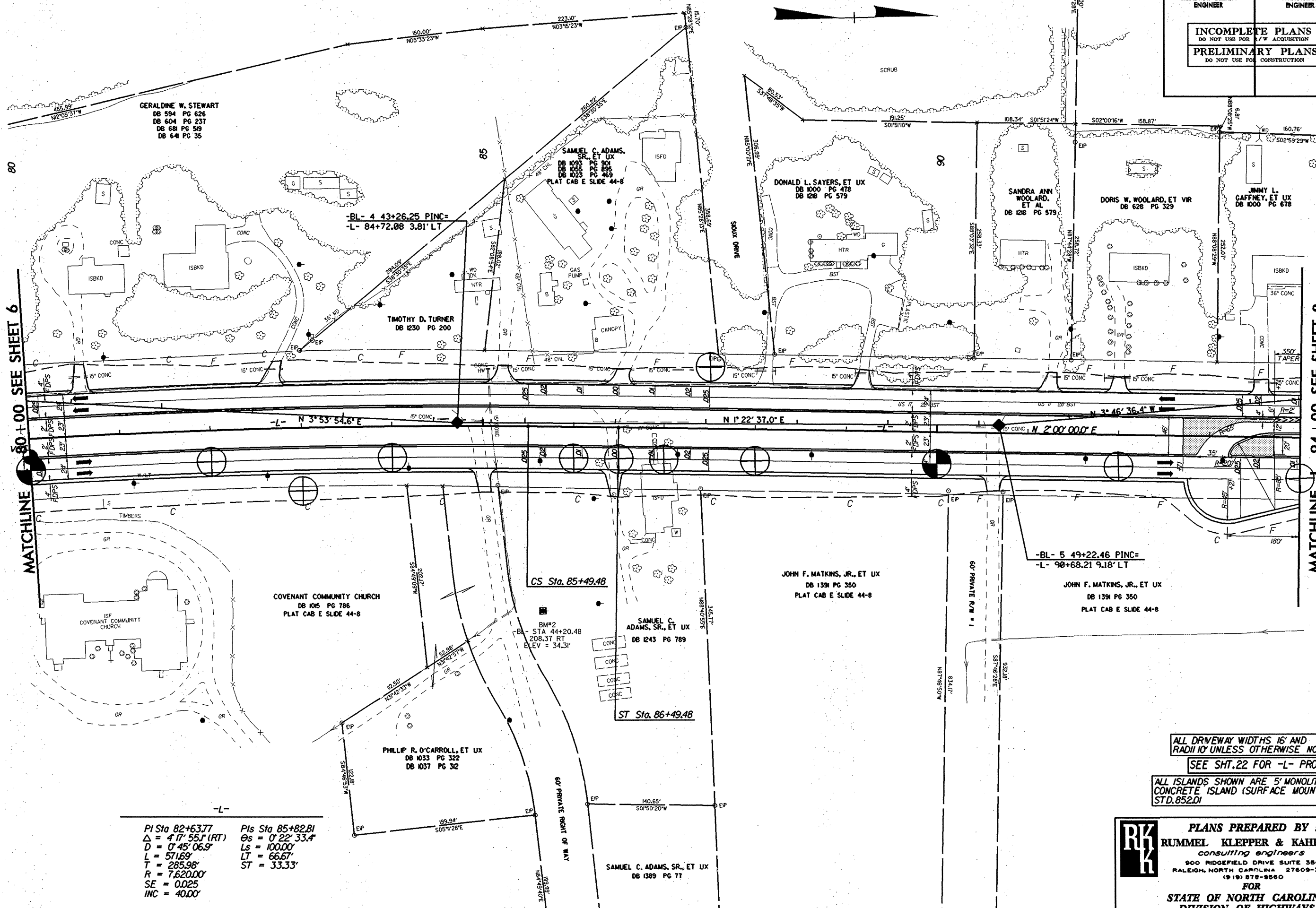
COVENANT COMMUNITY CHURCH
DB 1045 PG 786
PLAT C&S E SLOPE 44-8

ALL DRIVEWAY WIDTHS 16' AND RADIUS UNLESS OTHERWISE NOTED
SEE SHT. 22 FOR -L- PROFILE



PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
(919) 878-9560
FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

| | |
|----------------------------------------------------------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 7 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



MATCHLINE 80+00 SEE SHEET 6

MATCHLINE 94+00 SEE SHEET 8

PI Sta 82+63.77 PIs Sta 85+82.81
 $\Delta = 417' 55.1 (RT)$ $\Delta s = 0' 22' 33.4$
 $D = 0' 45' 06.9$ $Ls = 100.00$
 $L = 571.69$ $LT = 66.67$
 $T = 285.98$ $ST = 33.33$
 $R = 7.62000'$
 $SE = 0.025$
 $INC = 40.00'$

ALL DRIVEWAY WIDTHS 16' AND
 RADII 10' UNLESS OTHERWISE NOTED
 SEE SHT. 22 FOR -L- PROFILE
 ALL ISLANDS SHOWN ARE 5' MONOLITHIC
 CONCRETE ISLAND (SURFACE MOUNTED)
 STD. 852.01

PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-8560
 FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

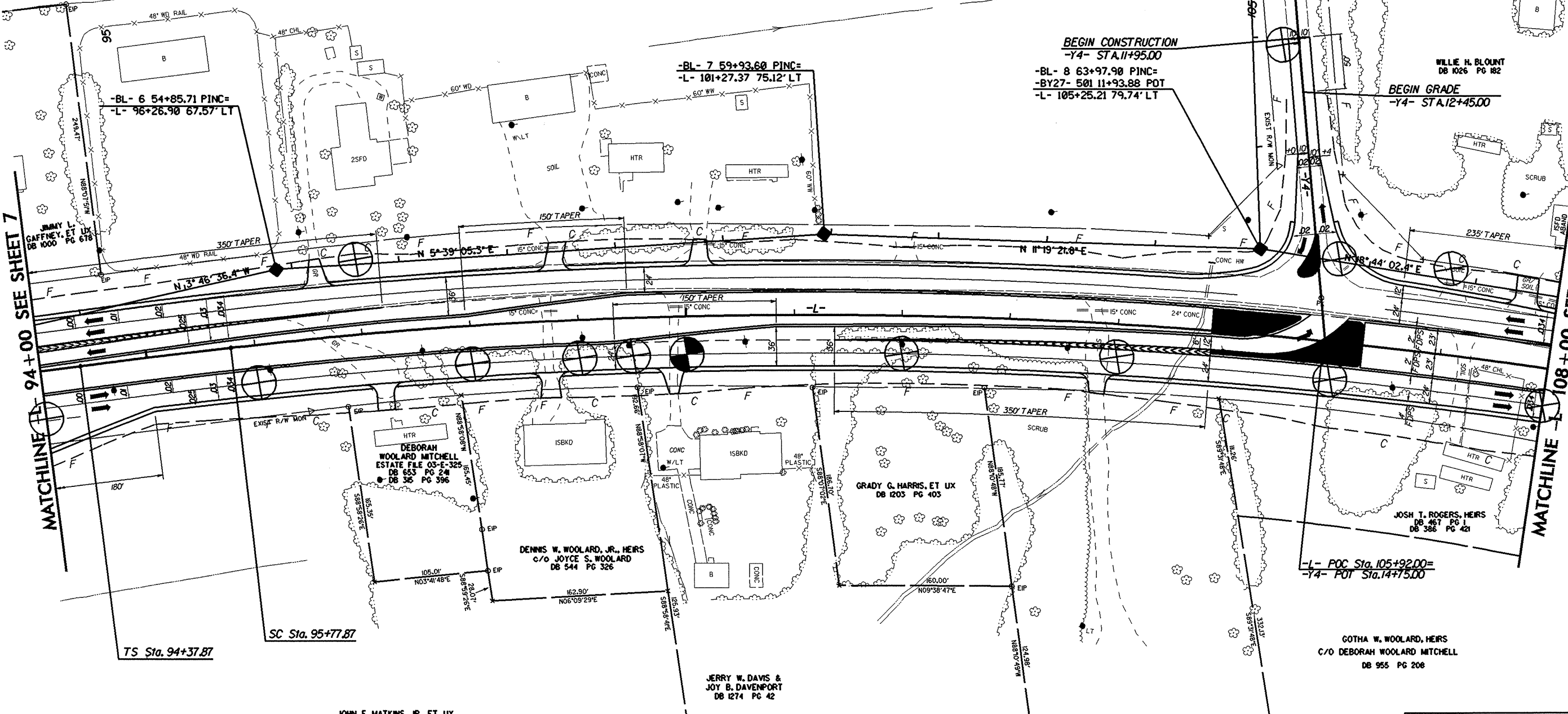
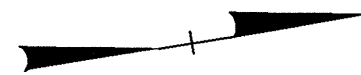
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8/17/99

| | |
|----------------------------------------------------------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 8 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

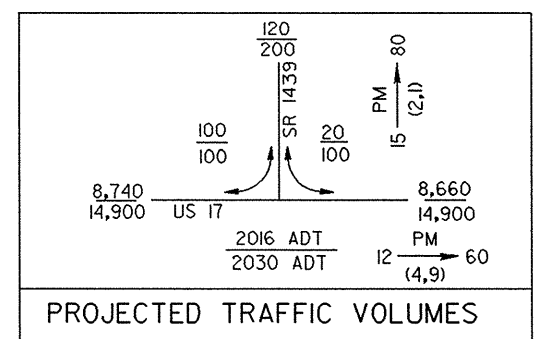
GOTHA W. WOOLARD ESTATE
 C/O DEBORAH WOOLARD MITCHELL
 ESTATE FILE 03-E-325
 DB 653 PG 241
 DB 365 PG 396

POT Sta. 10+00.00



MATCHLINE 94+00 SEE SHEET 7

MATCHLINE 108+00 SEE SHEET 9



JOHN F. MATKINS, JR., ET UX
 DB 1391 PG 350
 PLAT CAB E SLIDE 44-8

DENNIS W. WOOLARD, JR., HEIRS
 C/O JOYCE S. WOOLARD
 DB 544 PG 326

JERRY W. DAVIS &
 JOY B. DAVENPORT
 DB 1274 PG 42

DONALD W. MANNING, ET UX
 DB 150 PG 314
 PLAT CAB F SLIDE 47-10

-L- POC Sta. 105+92.00=
 -Y4- POT Sta. 14+75.00

GOTHA W. WOOLARD, HEIRS
 C/O DEBORAH WOOLARD MITCHELL
 DB 955 PG 208

ALL DRIVEWAY WIDTHS 16' AND
 RADII 10' UNLESS OTHERWISE NOTED

SEE SHT. 23 FOR -L- PROFILE

ALL ISLANDS SHOWN ARE 5' MONOLITHIC
 CONCRETE ISLAND (SURFACE MOUNTED)
 STD. 852.01

SEE SHT. 2-E FOR INTERSECTION DETAIL



PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560
 FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

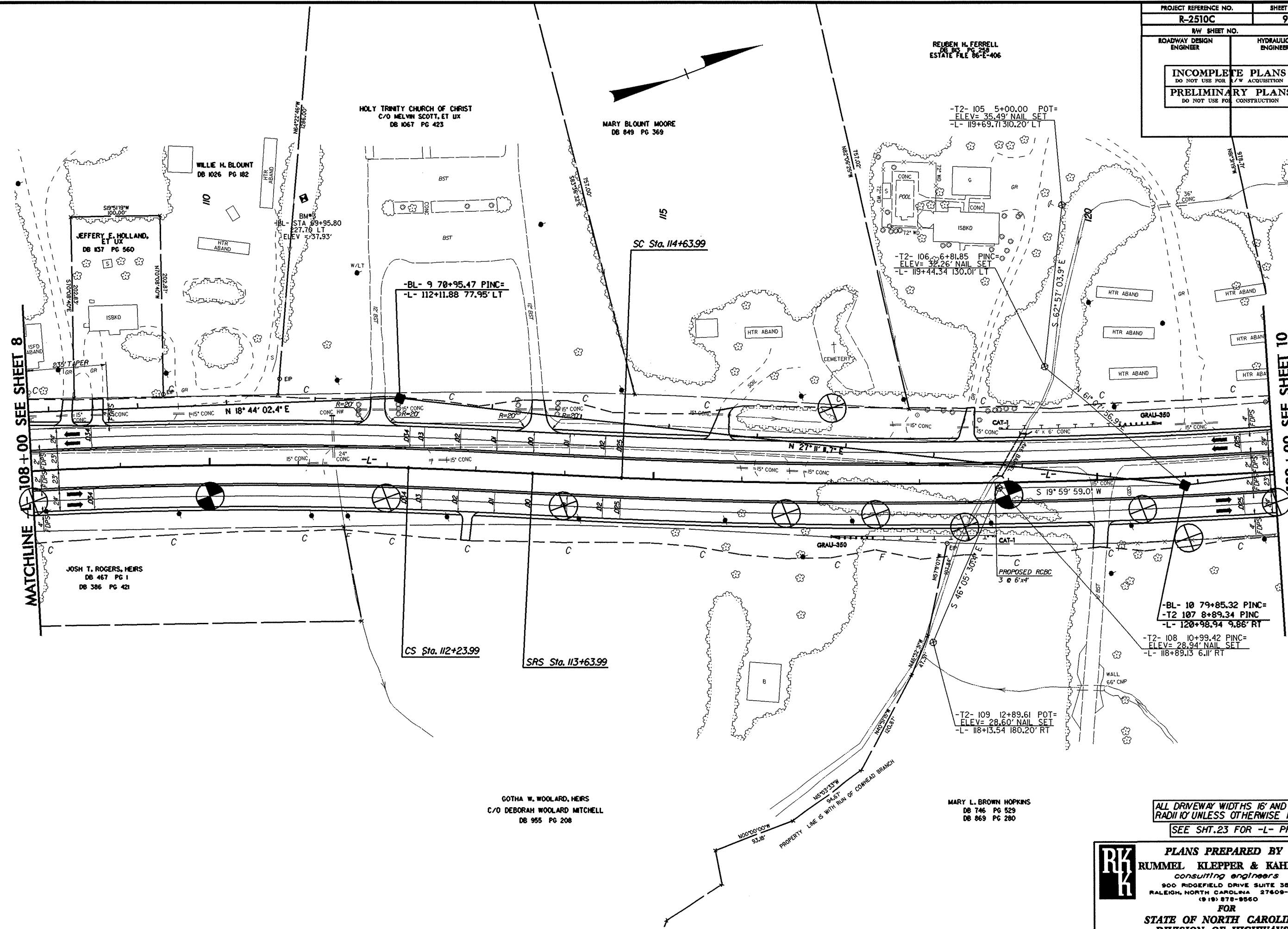
REVISIONS

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 20 NOV 2006 15:54 Investigation\TIP\R2510C_GE\RDW\CADD\GEOTECH\PlanPof\N-2510c_geo_psh_008.dgn

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| | |
|------------------------------------------------------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 9 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



REVISIONS

MATCHLINE -L- 108 + 00 SEE SHEET 8

MATCHLINE -L- 122 + 00 SEE SHEET 10

ALL DRIVEWAY WIDTHS 16' AND RADIUS UNLESS OTHERWISE NOTED
SEE SHT.23 FOR -L- PROFILE

PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 360
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-8860

FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

REUBEN H. FERRELL
DB 83 PG 38
ESTATE FILE 66-E-406

MARY BLOUNT MOORE
DB 849 PG 369

HOLY TRINITY CHURCH OF CHRIST
C/O MELVIN SCOTT, ET UX
DB 1067 PG 423

WILLIE H. BLOUNT
DB 1026 PG 182

JEFFERY F. HOLLAND,
ET UX
DB 157 PG 560

-BL- 9 70+95.47 PINC=
-L- 112+11.88 77.95' LT

SC Sta. 114+63.99

-T2- 105 5+00.00 POT=
ELEV= 35.49' NAIL SET
-L- 119+69.71 310.20' LT

-T2- 106 6+81.85 PINC=
ELEV= 32.26' NAIL SET
-L- 119+44.34 130.01' LT

JOSH T. ROGERS, HEIRS
DB 467 PG 1
DB 386 PG 421

CS Sta. 112+23.99

SRS Sta. 113+63.99

-BL- 10 79+85.32 PINC=
-T2 107 8+89.34 PINC=
-L- 120+98.94 9.86' RT

-T2- 108 10+99.42 PINC=
ELEV= 28.94' NAIL SET
-L- 118+89.13 6.11' RT

-T2- 109 12+89.61 POT=
ELEV= 28.60' NAIL SET
-L- 118+13.54 180.20' RT

MARY L. BROWN HOPKINS
DB 746 PG 529
DB 869 PG 260

GOTHA W. WOOLARD, HEIRS
C/O DEBORAH WOOLARD MITCHELL
DB 955 PG 208

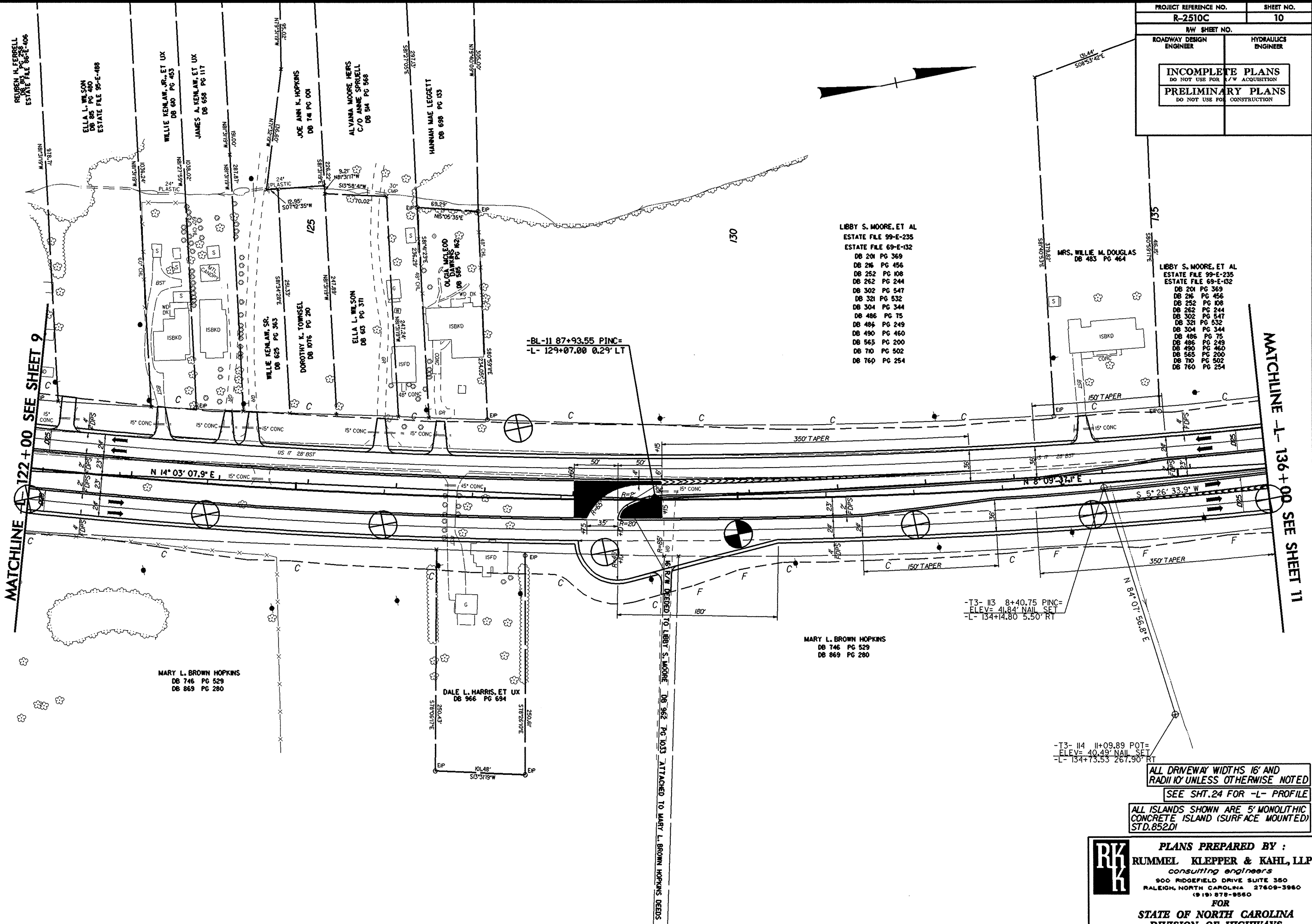
PROPERTY LINE IS WITH RUN OF CORHEAD BRANCH

8/17/99

| | |
|----------------------------------------------------------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 10 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

REVISIONS

20-NOV-2006 15:54
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 11/15/06 11:53



MATCHLINE -L- 122+00 SEE SHEET 9

MATCHLINE -L- 136+00 SEE SHEET 11

LIBBY S. MOORE, ET AL
 ESTATE FILE 99-E-235
 ESTATE FILE 69-E-132
 DB 201 PG 369
 DB 216 PG 456
 DB 252 PG 108
 DB 262 PG 244
 DB 302 PG 547
 DB 321 PG 532
 DB 304 PG 344
 DB 486 PG 75
 DB 486 PG 249
 DB 490 PG 460
 DB 565 PG 200
 DB 710 PG 502
 DB 760 PG 254

LIBBY S. MOORE, ET AL
 ESTATE FILE 99-E-235
 ESTATE FILE 69-E-132
 DB 201 PG 369
 DB 216 PG 456
 DB 252 PG 108
 DB 262 PG 244
 DB 302 PG 547
 DB 321 PG 532
 DB 304 PG 344
 DB 486 PG 75
 DB 486 PG 249
 DB 490 PG 460
 DB 565 PG 200
 DB 710 PG 502
 DB 760 PG 254

-BL-11 87+93.55 PINC=
 -L- 129+07.00 0.29' LT

-T3- 113 8+40.75 PINC=
 ELEV= 41.84' NAIL SET
 -L- 134+14.80 5.50' RT

-T3- 114 11+09.89 POT=
 ELEV= 40.49' NAIL SET
 -L- 134+73.53 267.90' RT

MARY L. BROWN HOPKINS
 DB 746 PG 529
 DB 869 PG 280

MARY L. BROWN HOPKINS
 DB 746 PG 529
 DB 869 PG 280

DALE L. HARRIS, ET UX
 DB 966 PG 694

ALL DRIVEWAY WIDTHS 16' AND
 RADII 10' UNLESS OTHERWISE NOTED
 SEE SHT. 24 FOR -L- PROFILE

ALL ISLANDS SHOWN ARE 5' MONOLITHIC
 CONCRETE ISLAND (SURFACE MOUNTED)
 STD. 852.01

RK&K
PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3980
 (919) 878-9560
FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

16' E/W REFERRED TO LIBBY S. MOORE DB 962 PG 1033 ATTACHED TO MARY L. BROWN HOPKINS DEEDS

8/17/99

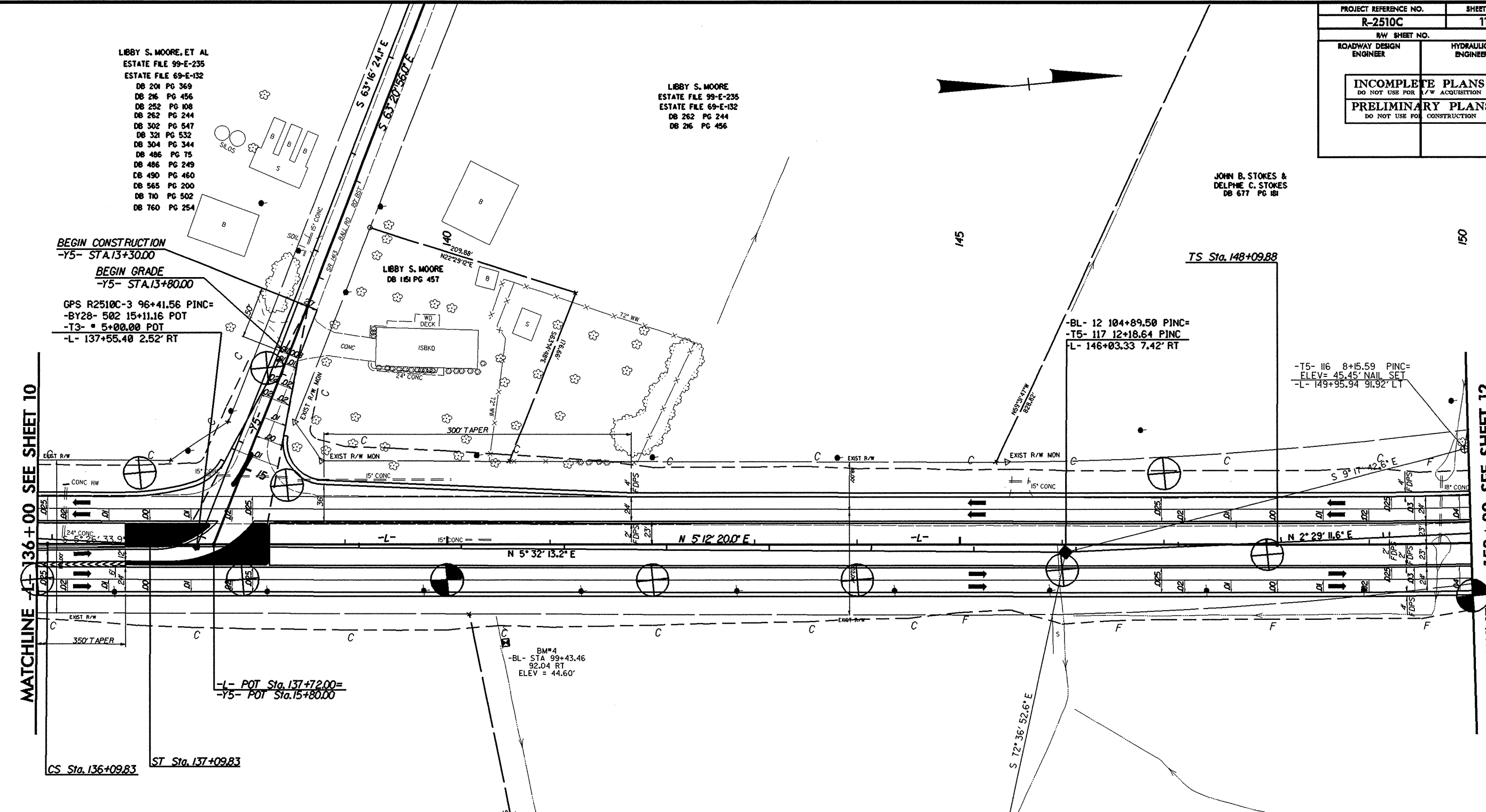
20-NOV-2006 15:54
L:\ERO\Geotechnical\TIP\R2510C_GEOTECH\Plan\Prof\N2510C_geo_pah_011.dgn
AT 11/22/06

| | |
|-----------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 11 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

LIBBY S. MOORE, ET AL
ESTATE FILE 99-E-235
ESTATE FILE 69-E-132
DB 201 PG 369
DB 216 PG 456
DB 252 PG 108
DB 262 PG 244
DB 302 PG 547
DB 321 PG 532
DB 304 PG 344
DB 486 PG 75
DB 486 PG 249
DB 490 PG 460
DB 565 PG 200
DB 710 PG 502
DB 760 PG 254

LIBBY S. MOORE
ESTATE FILE 99-E-235
ESTATE FILE 69-E-132
DB 262 PG 244
DB 216 PG 456

JOHN B. STOKES &
DELPHIE C. STOKES
DB 677 PG 181



MATCHLINE -L- 136+00 SEE SHEET 10

MATCHLINE -L- 150+00 SEE SHEET 12

BEGIN CONSTRUCTION
-Y5- STA.13+30.00

BEGIN GRADE
-Y5- STA.13+80.00

GPS R2510C-3 96+41.56 PINC=
-BY28- 502 15+11.16 POT
-T3- 5+00.00 POT
-L- 137+55.40 2.52' RT

-BL- 12 104+89.50 PINC=
-T5- 117 12+18.64 PINC
-L- 146+03.33 7.42' RT

-T5- 116 8+15.59 PINC=
ELEV= 45.45' NAIL SET
-L- 149+95.94 91.92' LT

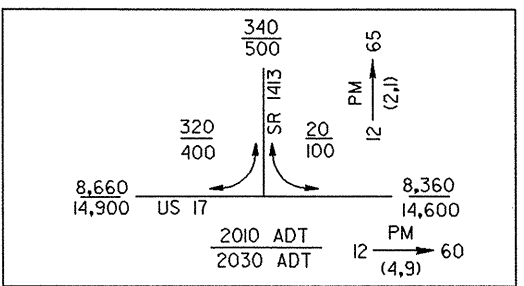
-L- POT Sta.137+72.00=
-Y5- POT Sta.15+80.00

BM#4
-BL- STA 99+43.46
92.04 RT
ELEV = 44.60'

-T5- 118 14+87.79 POT=
ELEV= 41.84' NAIL SET
-L- 145+46.54 270.51' RT

MARY L. BROWN HOPKINS
DB 746 PG 529
DB 869 PG 280

JOHN B. STOKES &
DELPHIE C. STOKES
DB 677 PG 181



PROJECTED TRAFFIC VOLUMES

ALL DRIVEWAY WIDTHS 16' AND
RADI 10' UNLESS OTHERWISE NOTED

SEE SHT.24 FOR -L- PROFILE

ALL ISLANDS SHOWN ARE 5' MONOLITHIC
CONCRETE ISLAND (SURFACE MOUNTED)
STD.85201

SEE SHT.2-F FOR INTERSECTION DETAIL



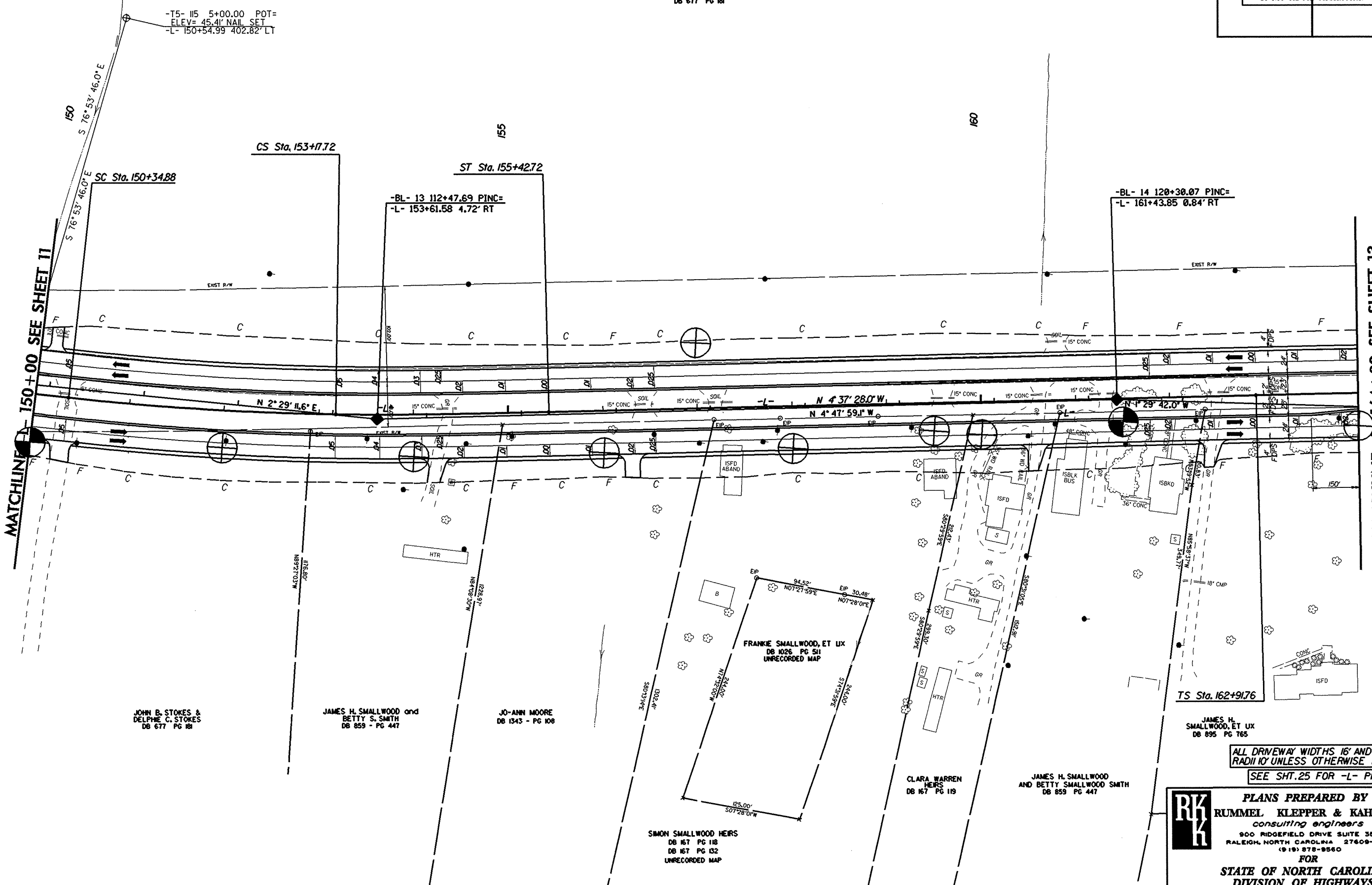
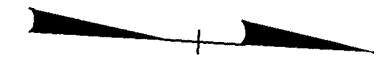
PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
900 RIDGEFIELD DRIVE SUITE 380
RALEIGH, NORTH CAROLINA 27609-3880
(919) 878-8560

FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

8/17/99
 25 NOV 2006 15:54 Investigation\TIP\R2510C_GEO\RDWY\CADD_GEO\TECH\Plan\Prof\Ar2510c_geo_psh_012.dgn
 11:30 AM

| | |
|----------------------------------------------------------------------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 12 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

JOHN B. STOKES &
 DELPHE C. STOKES
 DB 677 PG 181



MATCHLINE -L- 150+00 SEE SHEET 11

MATCHLINE -L- 164+00 SEE SHEET 13

PLANS PREPARED BY :
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consulting engineers
 900 RIDGEFIELD DRIVE SUITE 380
 RALEIGH, NORTH CAROLINA 27609-3880
 (919) 878-9560

FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

8/17/99

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| | |
|-----------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 13 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

JOHN B. STOKES & DELPHE C. STOKES DB 677 PG 84

OSIA A. WILDER, ET UX DB 49 PG 547

BOBBY G. SMITH, ET UX DB 125 - PG 216

BETTY J. SMITH DB 831 PG 517 DB 917 PG 266

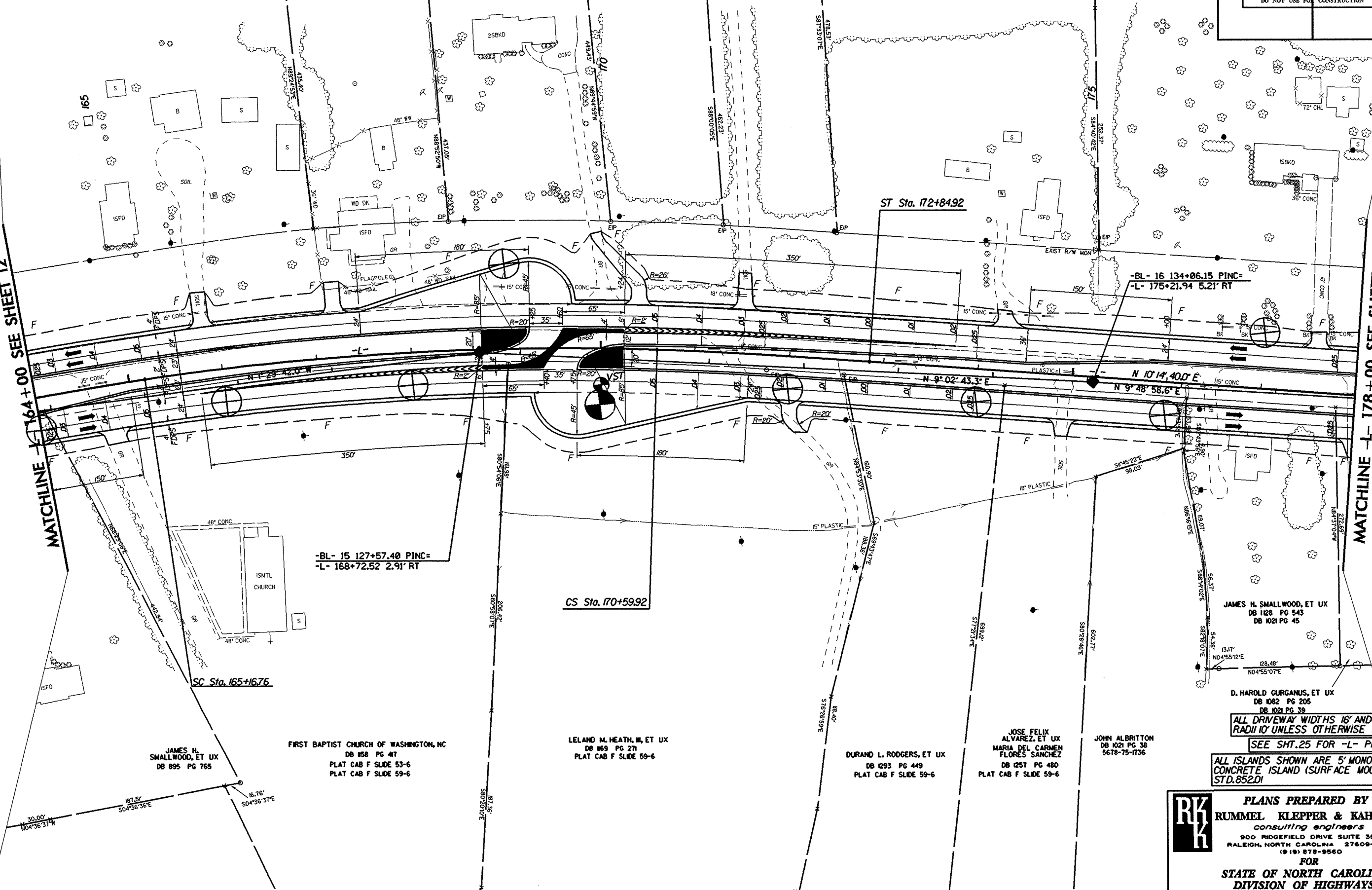
FAITH W. TYSON DB 1120 PG 746 DB 917 PG 266

FAITH W. TYSON DB 917 PG 264

QUINTIN W. JAMES, ET AL DB 948 PG 189

MATCHLINE -L- 164+00 SEE SHEET 12

MATCHLINE -L- 178+00 SEE SHEET 14



ALL DRIVEWAY WIDTHS 16' AND RADII UNLESS OTHERWISE NOTED

SEE SHT. 25 FOR -L- PROFILE

ALL ISLANDS SHOWN ARE 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED) STD. 852/D1

PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560

FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

REVISIONS

| | |
|----------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 14 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR L/W ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

8/17/99

WILLIAM H. WILLIAMSON
DB 1029 PG 126
PLAT CAB. E SLIDE 60-7

MARGARET DIANNE S. LEE, ET AL
DB 730 PG 145
ESTATE FILE 02-E-216
PLAT CAB F SLIDE 35-8

MARGARET DIANNE S. LEE
DB 1283 PG 594

QUINTIN W. JAMES, ET AL
DB 948 PG 189

WILLIAM H. WILLIAMSON
DB 1029 PG 126
PLAT CAB. E SLIDE 60-7

J.C. SWANNER HOUSE
HISTORIC PROPERTY

-T6- 119 5+00.00 POT=
ELEV= 42.51' NAIL SET
-L- 182+21.40 145.22' LT

-T6- 120 5+91.87 POT=
ELEV= 42.73' NAIL SET
-L- 181+61.21-75.80' LT

-BL- 17 142+99.94 PINC=
-T6- 121 8+57.00 POT
-L- 184+15.70 1.47' LT


BM*5
-BL- STA 143+62.86
227.51RT
ELEV = 46.23'

PHILLIP C. MATKINS, ET UX
DB 1002 PG 730

-I PROPERTY NAME NOT LISTED I-
in prtp FILE

JOHN ALBRITTON
DB 1021 PG 38
5678-75-1736

ALL DRIVEWAY WIDTHS 16' AND
RADIUS UNLESS OTHERWISE NOTED
SEE SHT. 26 FOR -L- PROFILE

PLANS PREPARED BY :

RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 380
 RALEIGH, NORTH CAROLINA 27609-3860
 (919) 878-9560
 FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MATCHLINE -L- 178 + 00 SEE SHEET 13

MATCHLINE 192 + 00 SEE SHEET 15

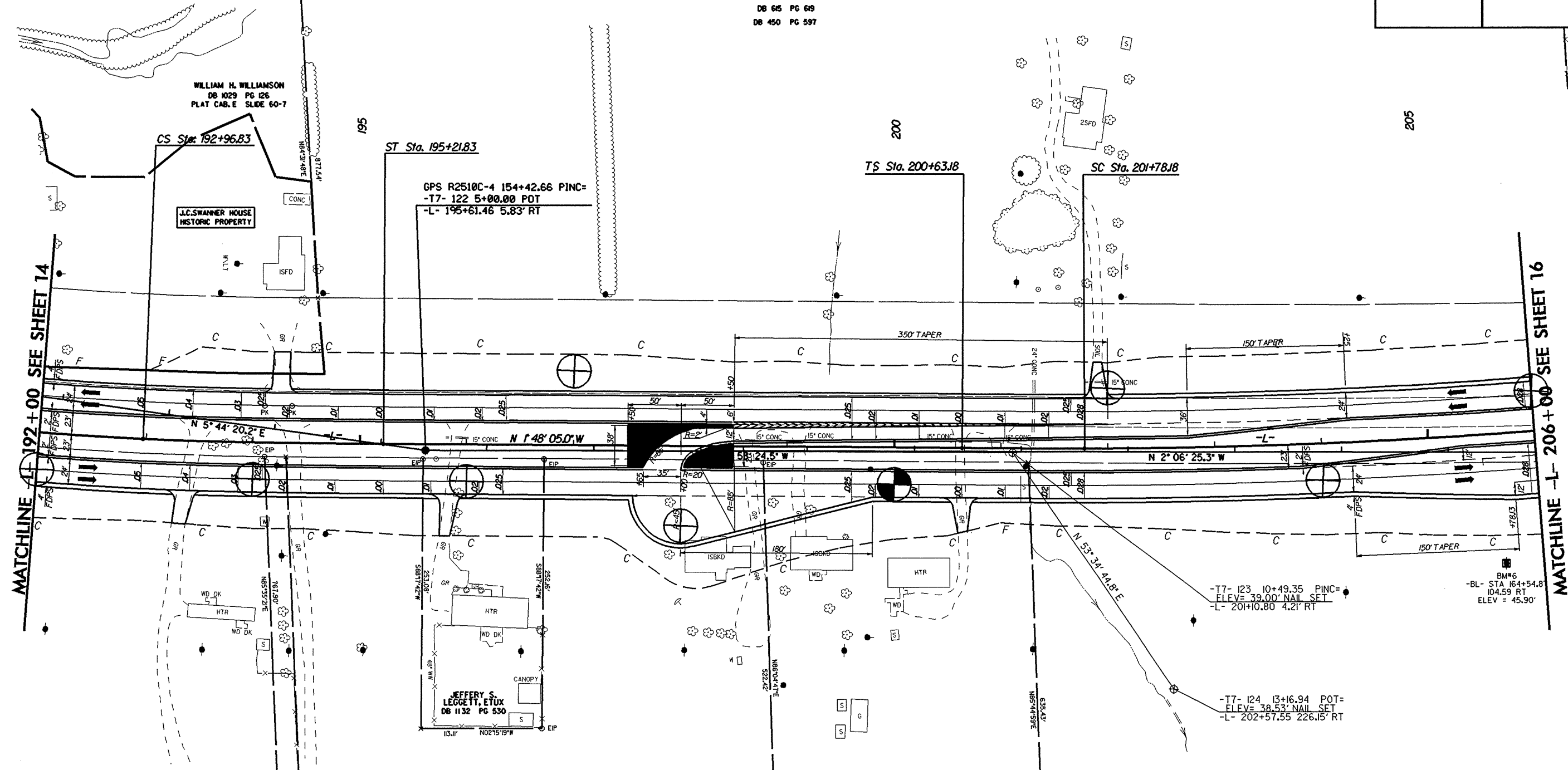
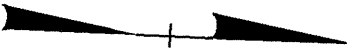
REVISIONS

20-NOV-2006 15:54
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8/17/99
 20-NOV-2006 15:55
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 AT 15:55

| | |
|---------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 15 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

**SWANNER-COOPER FARM
 HISTORIC PROPERTY**
 JOHN W. COOPER &
 PAMELA C. JOLLY
 ESTATE FILE 8-E-87
 ESTATE FILE 00-E-87
 DB 280 PG 97
 DB 665 PG 69
 DB 450 PG 597



MATCHLINE -L- 192+00 SEE SHEET 14

MATCHLINE -L- 206+00 SEE SHEET 16

PHILLIP C. MATKINS, ET UX
 DB 1002 PG 730

FANNIE L. MCCLEDY
 DB 516 PG 357

FRANCES L. MCCLEDY
 DB 988 PG 192
 DB 654 PG 461
 DB 974 PG 665
 DB 957 PG 573

LEE MORTON COOPER
 DB 1240 PG 936

ALL DRIVEWAY WIDTHS 16' AND
 RADI 10' UNLESS OTHERWISE NOTED
 SEE SHT. 26 FOR -L- PROFILE

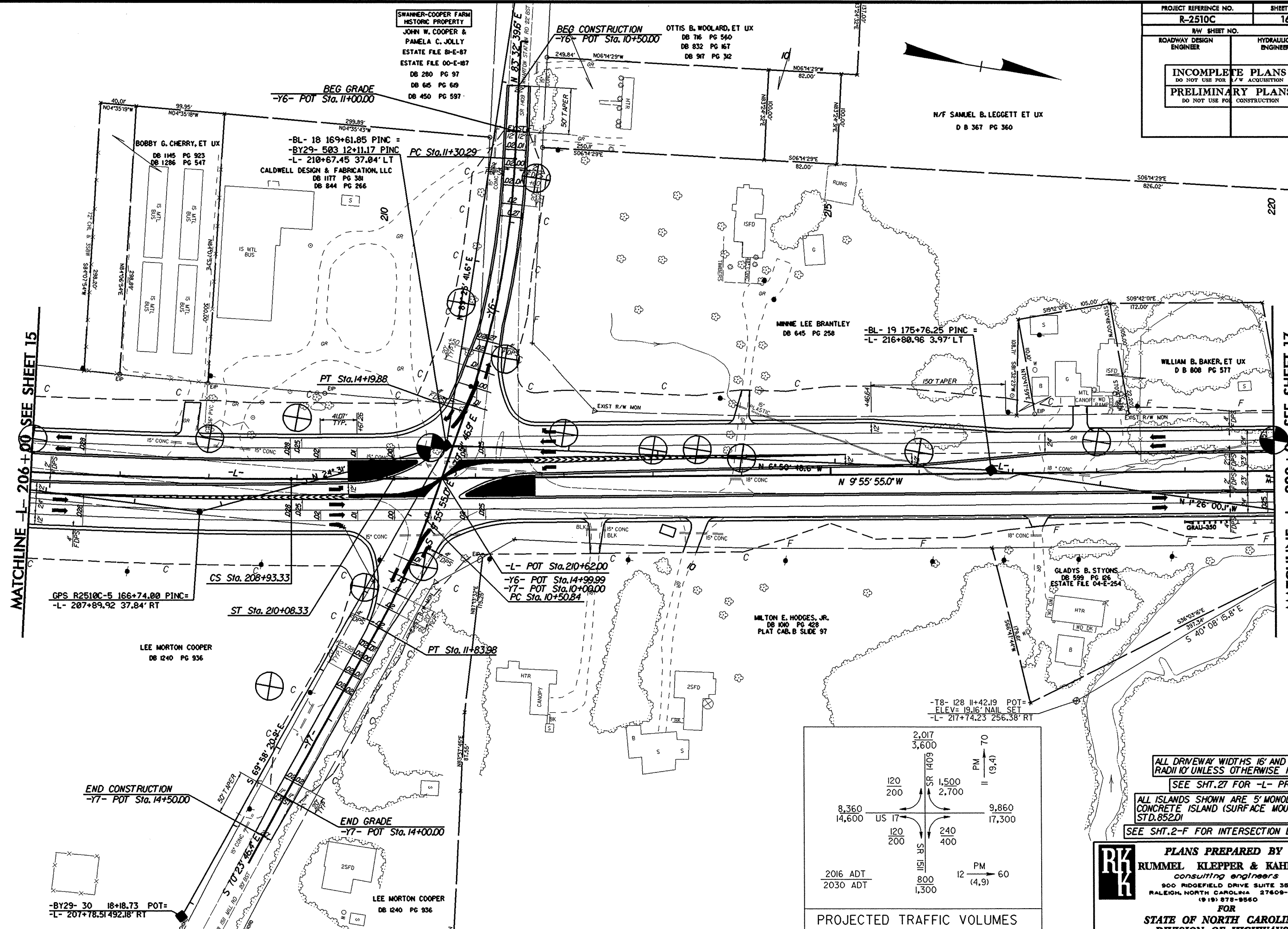
ALL ISLANDS SHOWN ARE 5' MONOLITHIC
 CONCRETE ISLAND (SURFACE MOUNTED)
 STD. 852.01

RK K
PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560
FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

8/17/99

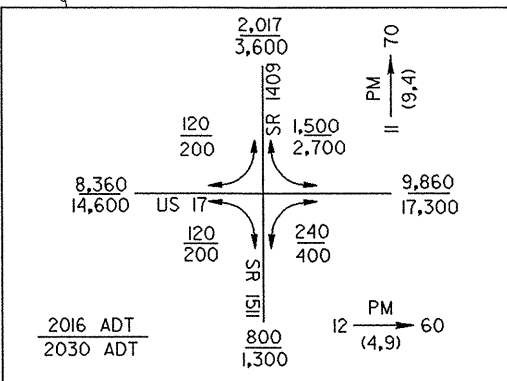
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| | |
|----------------------------------------------------------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 16 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



MATCHLINE -L- 206+00 SEE SHEET 15

MATCHLINE -L- 220+00 SEE SHEET 17

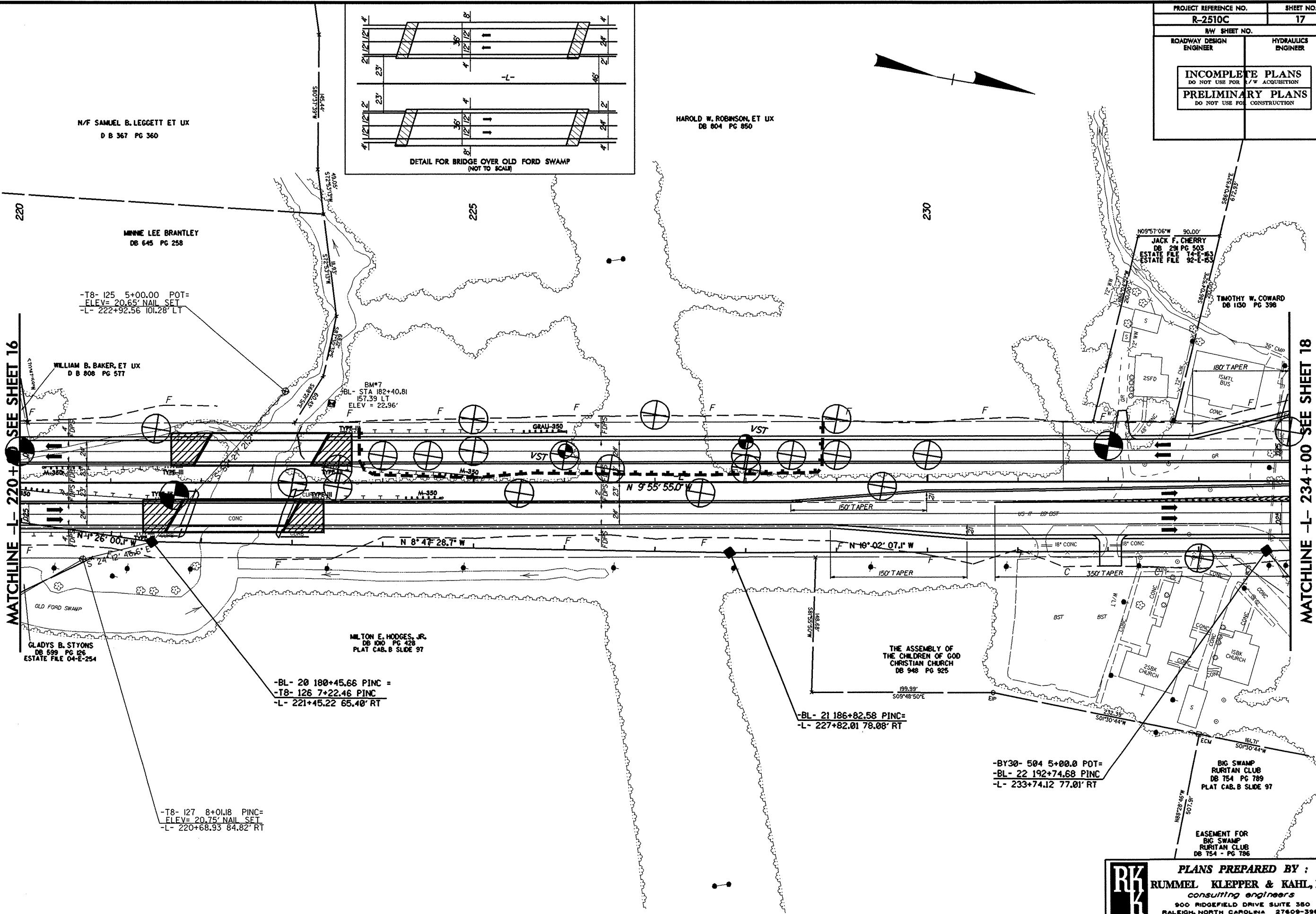
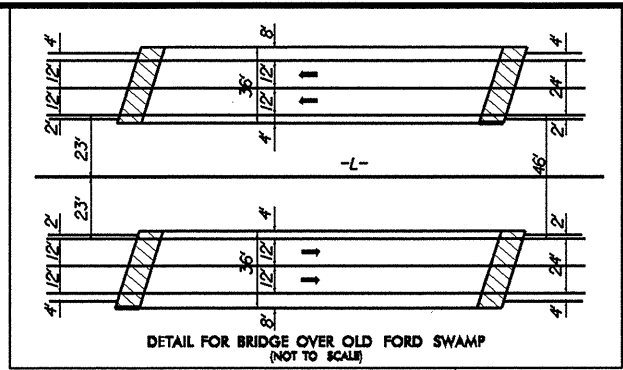


PROJECTED TRAFFIC VOLUMES

ALL DRIVEWAY WIDTHS 16' AND RADIUS 10' UNLESS OTHERWISE NOTED
 SEE SHT.27 FOR -L- PROFILE
 ALL ISLANDS SHOWN ARE 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED) STD.852.01
 SEE SHT.2-F FOR INTERSECTION DETAIL

PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3980
 (919) 878-9560
 FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

| | |
|------------------------------------------------------------------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 17 |
| RWY SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



MATCHLINE -L- 220+00 SEE SHEET 16

MATCHLINE -L- 234+00 SEE SHEET 18

REVISIONS

8/17/99

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-T8- 127 8+01.18 PINC=
 ELEV= 20.75' NAIL SET
 -L- 220+68.93 84.82' RT

-BL- 20 180+45.66 PINC =
 -T8- 126 7+22.46 PINC
 -L- 221+45.22 65.40' RT

-BL- 21 186+82.58 PINC=
 -L- 227+82.01 78.08' RT

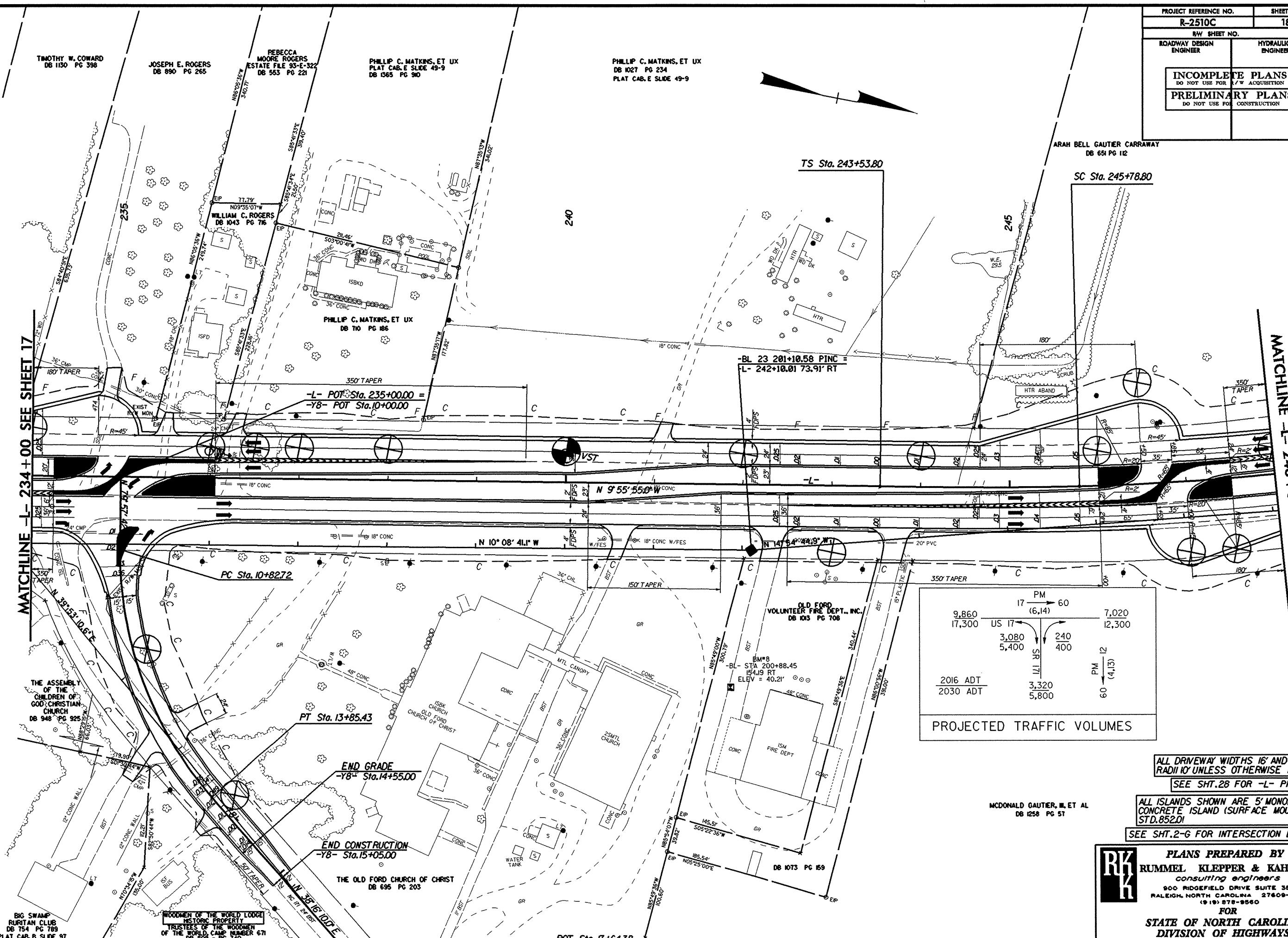
-BY30- 504 5+00.0 POT=
 -BL- 22 192+74.68 PINC
 -L- 233+74.12 77.01' RT

ALL DRIVEWAY WIDTHS 16' AND
 RADII 10' UNLESS OTHERWISE NOTED
 SEE SHT. 27 FOR -L- PROFILE

PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560
 FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

8/17/99
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| | |
|---------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 18 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



| | | | |
|----------|-------|--------|--------|
| 9,860 | 17 | 60 | 7,020 |
| 17,300 | US 17 | (6,14) | 12,300 |
| | 3,080 | 240 | |
| | 5,400 | 400 | |
| | SR 17 | | |
| 2016 ADT | 3,320 | | |
| 2030 ADT | 5,800 | | |
| | PM | 12 | |
| | | (4,13) | |
| | 60 | | |

ALL DRIVEWAY WIDTHS 16' AND RADI 10' UNLESS OTHERWISE NOTED
SEE SHT. 28 FOR -L- PROFILE

ALL ISLANDS SHOWN ARE 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED) STD. 852.01
SEE SHT. 2-6 FOR INTERSECTION DETAIL

PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 380
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560

FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TIMOTHY W. COWARD
DB 1130 PG 398

JOSEPH E. ROGERS
DB 890 PG 265

REBECCA MOORE ROGERS
ESTATE FILE 93-E-322
DB 553 PG 221

PHILLIP C. MATKINS, ET UX
PLAT CAB. E SLIDE 49-9
DB 1365 PG 90

PHILLIP C. MATKINS, ET UX
DB 1027 PG 234
PLAT CAB. E SLIDE 49-9

ARAH BELL GAUTIER CARRAWAY
DB 651 PG 112

MATCHLINE -L- 234+00 SEE SHEET 17

MATCHLINE -L- 248+00 SEE SHEET 19

BIG SWAMP
RURITAN CLUB
DB 154 PG 789
PLAT CAB. B SLIDE 97

WOODMEN OF THE WORLD LODGE
OF THE WORLD CAMP NUMBER 671
DB 808 PG 740

THE OLD FORD CHURCH OF CHRIST
DB 695 PG 203

OLD FORD
VOLUNTEER FIRE DEPT., INC.
DB 1013 PG 708

8/17/99

20-MAY-2006 15:15 Invssta:gaution\TIP\R2510C_GE1.RDWY\CADD_GEO\TECH\PlanPrOf\R2510c_geo_psh_0119.dgn

| | |
|-----------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 19 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

ARAH BELL GAUTIER CARRWAY
DB 65I PC 12

KEVIN E. BOYD
DB 104 PC 387
DB 104 PC 390

-T9- 129 5+00.00 POT=
ELEV= 29.96' NAIL SET
-L- 259+49.05 380.49' LT

ST Sta. 254+74.85

-BL- 24 218+16.57 PINC=
-BY31- 505 8+84.70 POT
-L- 258+95.24 10.42' LT

POT Sta. 10+00.00
10
BEG. CONSTRUCTION
-Y9- STA. 10+00.00
BEGIN GRADE
-Y9- STA. 10+60.00

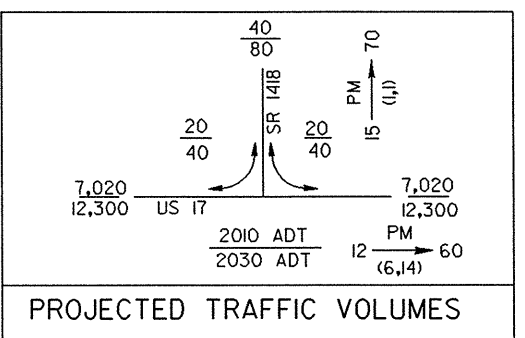
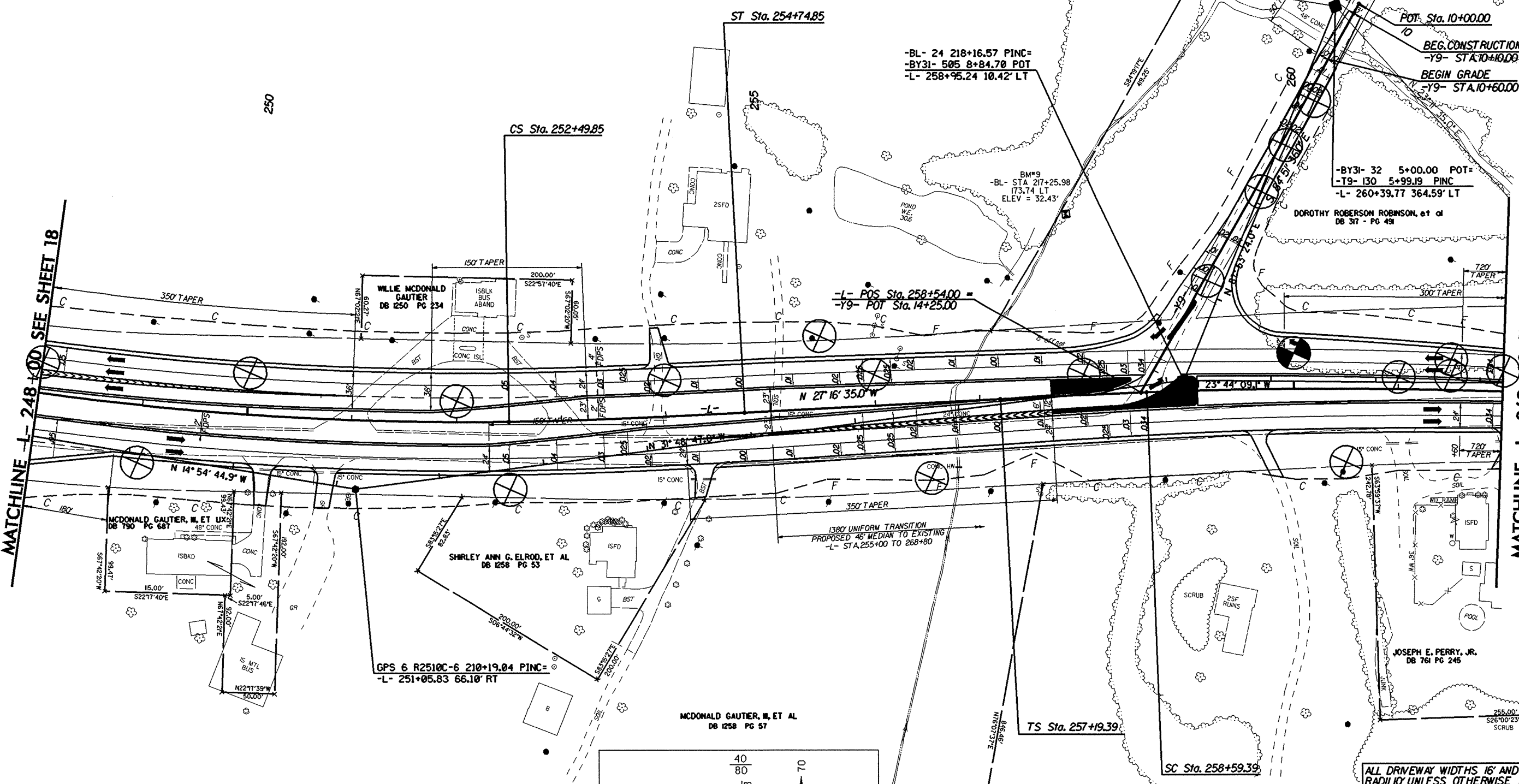
-BY31- 32 5+00.00 POT=
-T9- 130 5+99.19 PINC
-L- 260+39.77 364.59' LT

DOROTHY ROBERSON ROBINSON, et al
DB 317 - PG 491

-L- POS Sta. 258+54.00 =
-Y9- POT Sta. 14+25.00

MATCHLINE -L- 248+00 SEE SHEET 18

MATCHLINE -L- 262+00 SEE SHEET 20



ALL DRIVEWAY WIDTHS 16' AND RADIUS UNLESS OTHERWISE NOTED

SEE SHT. 28 FOR -L- PROFILE
SEE SHT. 2-6 FOR INTERSECTION DETAIL

PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560

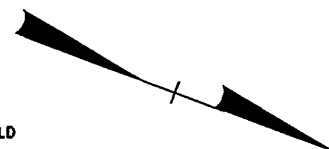
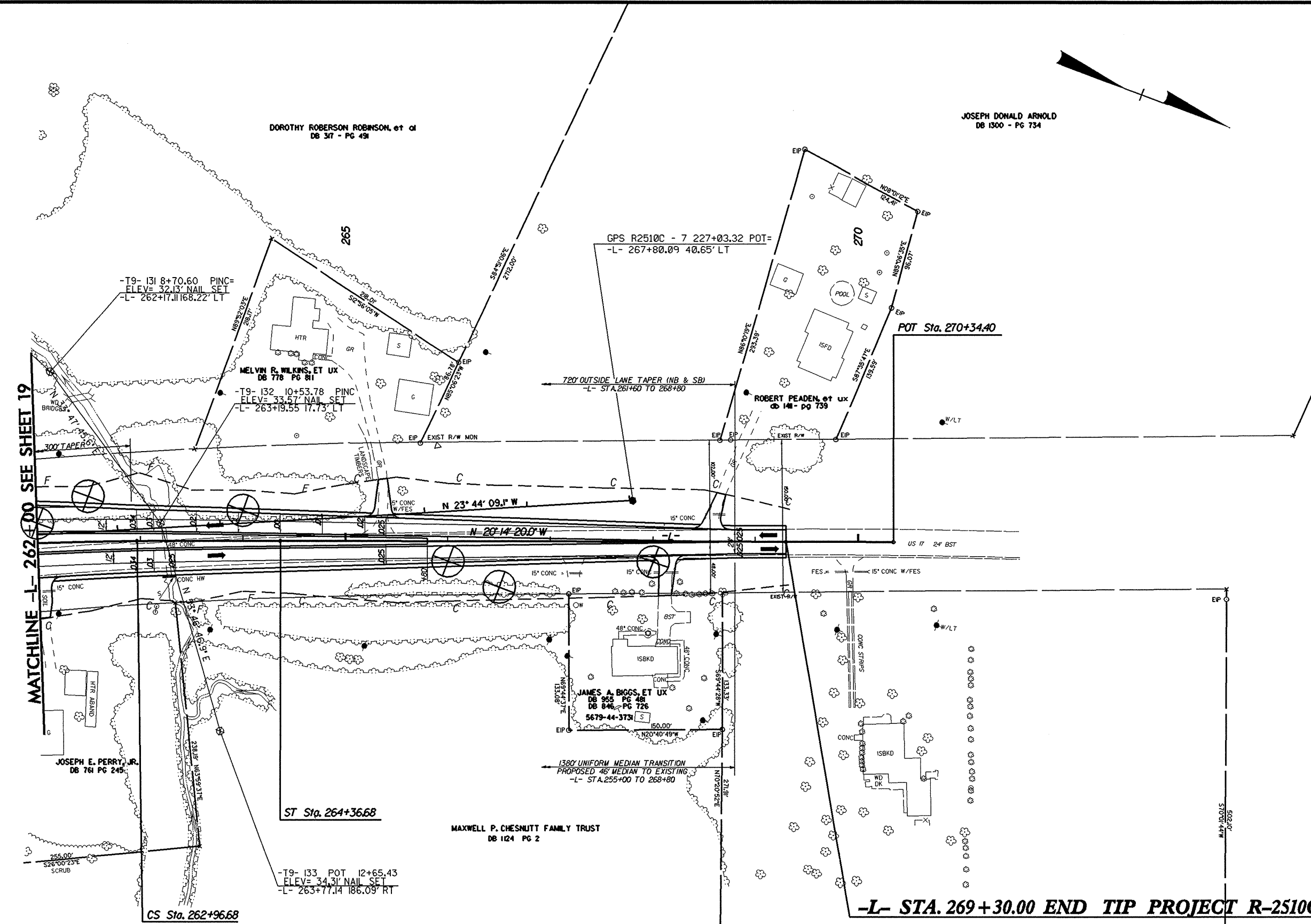


FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALL ISLANDS SHOWN ARE 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED) STD. 852.01

| | |
|---------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 20 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

8/17/99
 REVISIONS
 20-MAY-2006 15:55 Investigator\TIP\R2510C_GEOTECH\PlanProc\N-2510c_geo_psh_020.dgn
 20-MAY-2006 15:55 Investigator\TIP\R2510C_GEOTECH\PlanProc\N-2510c_geo_psh_020.dgn
 20-MAY-2006 15:55 Investigator\TIP\R2510C_GEOTECH\PlanProc\N-2510c_geo_psh_020.dgn



ALL DRIVEWAY WIDTHS 16' AND
 RADII 10' UNLESS OTHERWISE NOTED
 SEE SHT. 29 FOR -L- PROFILE

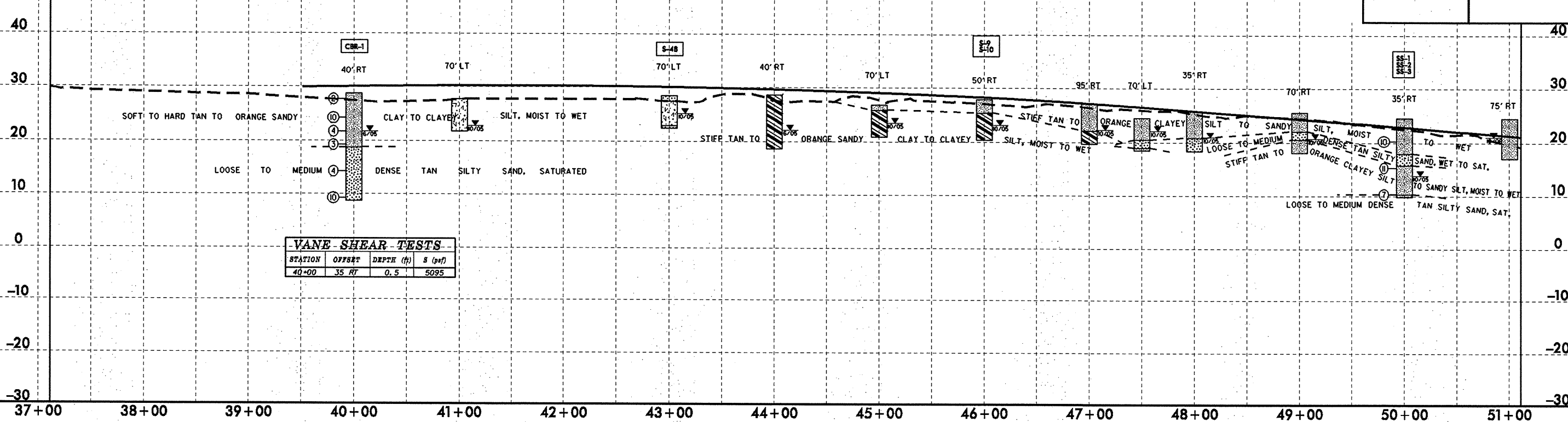
PLANS PREPARED BY :
RUMMEL KLEPPER & KAHL, LLP
consulting engineers
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 (919) 878-9560
FOR
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALAMEDA L. EDWARDS
 DB 869 PG 286

5/28/99

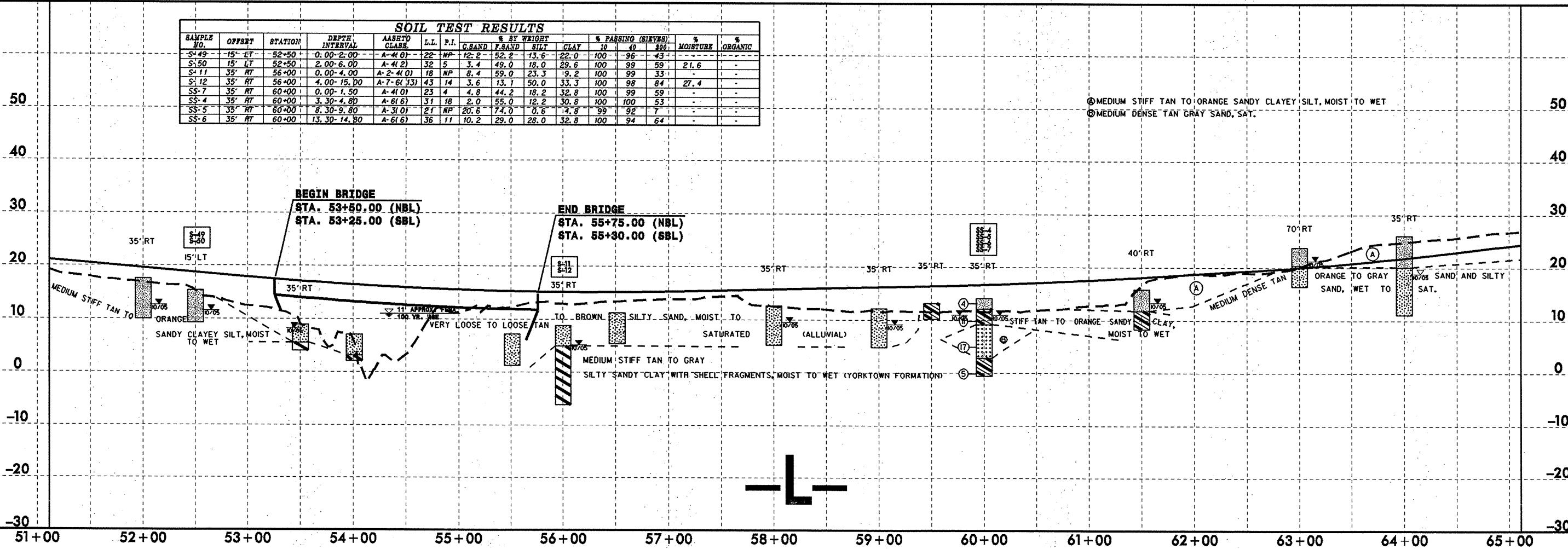
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|-----------------------------------------------------------|--|---------------------|--|
| PROJECT REFERENCE NO. | | SHEET NO. | |
| R-2510C | | 21 | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION | | | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | | | |

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|-----|------------|-----------|-----|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | | | 200 |
| CBR-1 | 40' RT | 40+00 | 1.00-3.00 | A-4(0) | 17 | NP | 1.2 | 93.9 | 26.8 | 18.1 | 100 | 99 | 60 | - | - |
| S-48 | 70' LT | 43+00 | 0.00-5.50 | A-5(4) | 47 | W | 2.0 | 43.2 | 18.8 | 36.0 | 100 | 100 | 66 | - | - |
| S-9 | 50' RT | 46+00 | 0.00-2.50 | A-4(1) | 26 | S | 5.0 | 34.7 | 34.9 | 29.3 | 100 | 100 | 65 | 15.4 | - |
| S-10 | 50' RT | 46+00 | 2.50-7.50 | A-5(1) | 33 | VS | 6.4 | 58.6 | 21.7 | 13.3 | 100 | 98 | 36 | - | - |
| SS-1 | 35' RT | 50+00 | 3.30-4.80 | A-4(0) | 25 | NP | 1.0 | 28.2 | 20.0 | 50.8 | 95 | 94 | 71 | 21.6 | - |
| SS-2 | 35' RT | 50+00 | 8.30-8.80 | A-2(4(0) | 22 | NP | 0.0 | 88.4 | 2.0 | 9.6 | 100 | 100 | 16 | - | - |
| SS-3 | 35' RT | 50+00 | 13.30-14.30 | A-4(3) | 33 | S | 5.2 | 42.4 | 17.6 | 34.8 | 97 | 95 | 57 | - | - |



| VANE SHEAR TESTS | | | |
|------------------|--------|------------|---------|
| STATION | OFFSET | DEPTH (ft) | S (psf) |
| 40+00 | 35' RT | 0.5 | 5095 |

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|-----|------------|-----------|-----|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | | | 200 |
| S-49 | 15' LT | 52+50 | 0.00-2.00 | A-4(0) | 22 | NP | 12.2 | 52.2 | 13.6 | 22.0 | 100 | 96 | 43 | - | - |
| S-50 | 15' LT | 52+50 | 2.00-6.00 | A-4(2) | 32 | S | 3.4 | 49.0 | 18.0 | 29.6 | 100 | 99 | 59 | 21.6 | - |
| S-11 | 35' RT | 56+00 | 0.00-4.00 | A-2(4(0) | 18 | NP | 8.4 | 59.0 | 23.3 | 9.2 | 100 | 99 | 33 | - | - |
| S-12 | 35' RT | 56+00 | 4.00-15.00 | A-7(6(13) | 43 | 14 | 3.6 | 13.7 | 50.0 | 33.3 | 100 | 98 | 84 | 27.4 | - |
| SS-7 | 35' RT | 60+00 | 0.00-1.50 | A-4(0) | 23 | 4 | 4.8 | 44.2 | 18.2 | 32.8 | 100 | 99 | 59 | - | - |
| SS-4 | 35' RT | 60+00 | 3.30-4.80 | A-6(6) | 31 | 18 | 2.0 | 55.0 | 12.2 | 30.8 | 100 | 100 | 53 | - | - |
| SS-5 | 35' RT | 60+00 | 8.30-9.80 | A-3(0) | 21 | NP | 20.6 | 74.0 | 0.6 | 14.8 | 99 | 92 | 7 | - | - |
| SS-6 | 35' RT | 60+00 | 13.30-14.80 | A-6(6) | 36 | 11 | 10.2 | 29.0 | 28.0 | 32.8 | 100 | 94 | 64 | - | - |

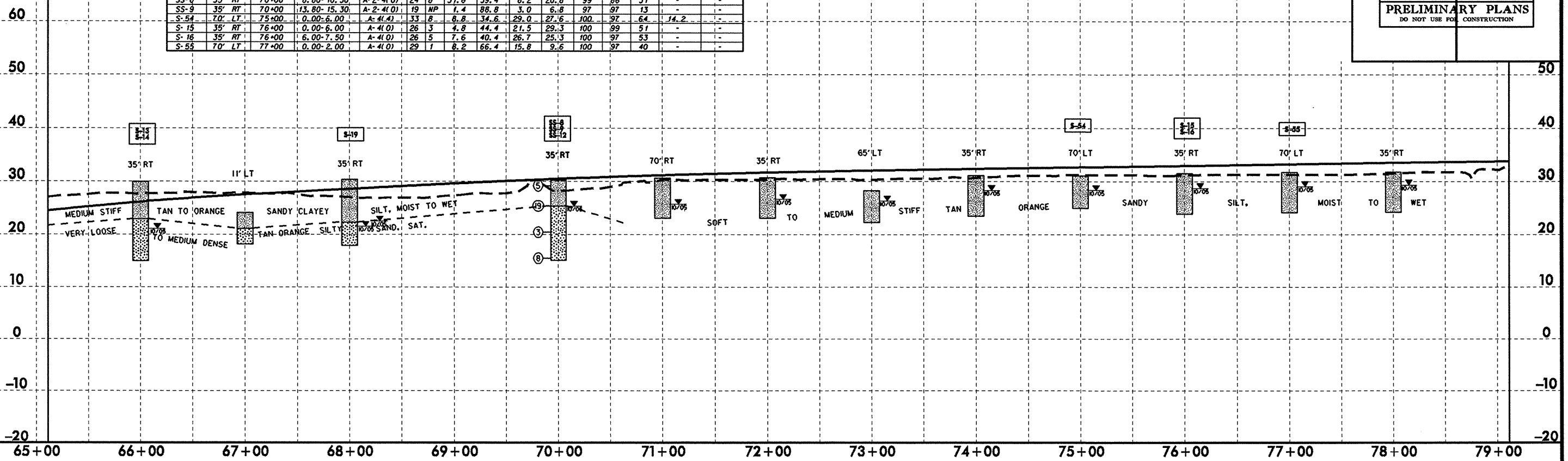


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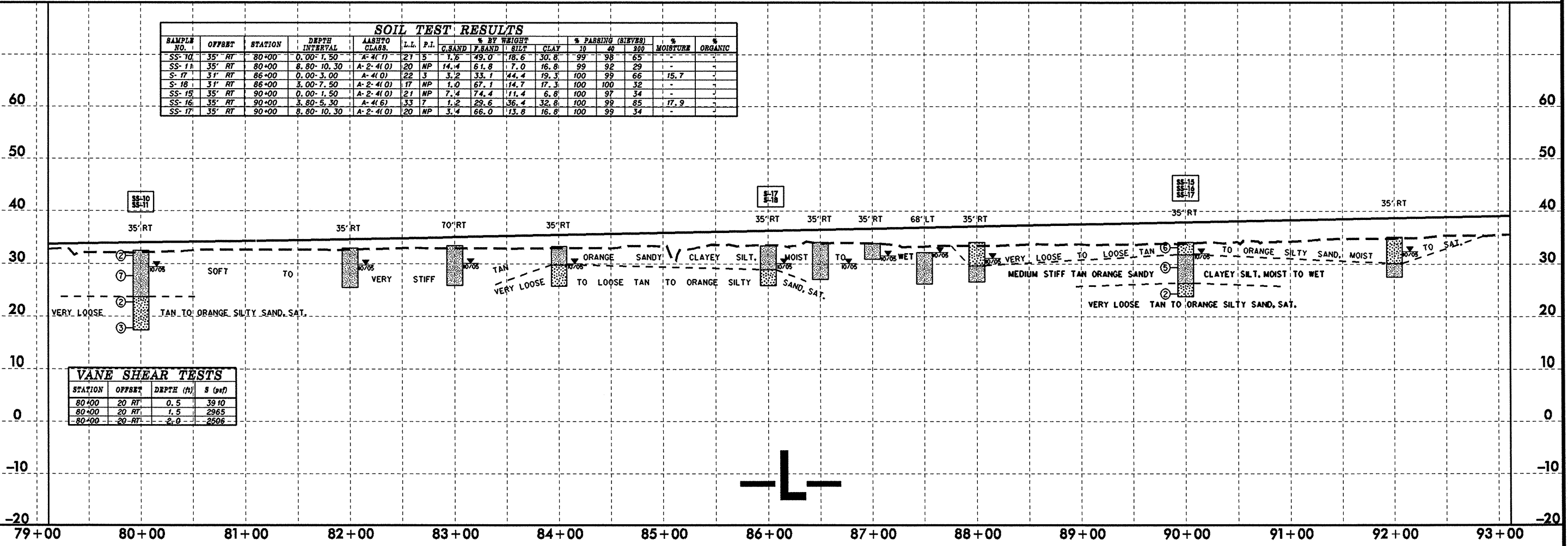
5/28/99

| | |
|---------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 22 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|-----|------------|-----------|---|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
| | | | | | | | C.SAND | F.SAND | SILT | 10 | 40 | 200 | | | |
| S-13 | 35' RT | 66+00 | 0.00-7.00 | A-4(1) | 31 | 4 | 9.0 | 33.9 | 23.7 | 33.3 | 94 | 91 | 54 | - | - |
| S-14 | 35' RT | 66+00 | 7.00-15.20 | A-2-4(0) | 22 | NP | 4.0 | 66.7 | 16.1 | 13.3 | 100 | 99 | 31 | - | - |
| S-19 | 35' RT | 68+00 | 0.00-6.50 | A-4(0) | 22 | 6 | 16.7 | 41.0 | 25.1 | 17.3 | 100 | 95 | 43 | - | - |
| SS-12 | 35' RT | 70+00 | 0.00-1.50 | A-4(1) | 35 | 5 | 16.0 | 38.0 | 15.2 | 30.8 | 99 | 92 | 52 | 12.5 | - |
| SS-8 | 35' RT | 70+00 | 8.80-10.30 | A-2-4(0) | 24 | 8 | 31.6 | 39.4 | 8.2 | 20.8 | 99 | 96 | 31 | - | - |
| SS-9 | 35' RT | 70+00 | 13.80-15.30 | A-2-4(0) | 19 | NP | 1.4 | 88.8 | 3.0 | 6.8 | 97 | 97 | 13 | - | - |
| S-54 | 70' LT | 75+00 | 0.00-6.00 | A-4(4) | 33 | 8 | 8.8 | 34.6 | 29.0 | 27.6 | 100 | 97 | 6.4 | 14.2 | - |
| S-15 | 35' RT | 76+00 | 0.00-6.00 | A-4(0) | 26 | 3 | 4.8 | 44.4 | 21.5 | 29.3 | 100 | 99 | 51 | - | - |
| S-16 | 35' RT | 76+00 | 6.00-7.50 | A-4(0) | 26 | 5 | 7.6 | 40.4 | 26.7 | 25.3 | 100 | 97 | 53 | - | - |
| S-55 | 70' LT | 77+00 | 0.00-2.00 | A-4(0) | 29 | 1 | 8.2 | 66.4 | 15.8 | 9.6 | 100 | 97 | 40 | - | - |



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|-----|------------|-----------|---|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
| | | | | | | | C.SAND | F.SAND | SILT | 10 | 40 | 200 | | | |
| SS-10 | 35' RT | 80+00 | 0.00-1.50 | A-4(1) | 21 | 5 | 1.6 | 49.0 | 18.6 | 30.8 | 99 | 98 | 65 | - | - |
| SS-11 | 35' RT | 80+00 | 8.80-10.30 | A-2-4(0) | 20 | NP | 14.4 | 61.8 | 7.0 | 16.8 | 99 | 92 | 29 | - | - |
| S-17 | 31' RT | 86+00 | 0.00-3.00 | A-4(0) | 22 | 3 | 3.2 | 33.1 | 44.4 | 19.3 | 100 | 99 | 66 | 15.7 | - |
| S-18 | 31' RT | 86+00 | 3.00-7.50 | A-2-4(0) | 17 | NP | 1.0 | 67.1 | 14.7 | 17.3 | 100 | 100 | 32 | - | - |
| SS-15 | 35' RT | 90+00 | 0.00-1.50 | A-2-4(0) | 21 | NP | 7.4 | 74.4 | 11.4 | 6.8 | 100 | 97 | 34 | - | - |
| SS-16 | 35' RT | 90+00 | 3.80-5.30 | A-4(6) | 33 | 7 | 1.2 | 29.6 | 36.4 | 32.8 | 100 | 99 | 85 | 17.9 | - |
| SS-17 | 35' RT | 90+00 | 8.80-10.30 | A-2-4(0) | 20 | NP | 3.4 | 66.0 | 13.8 | 16.8 | 100 | 99 | 34 | - | - |



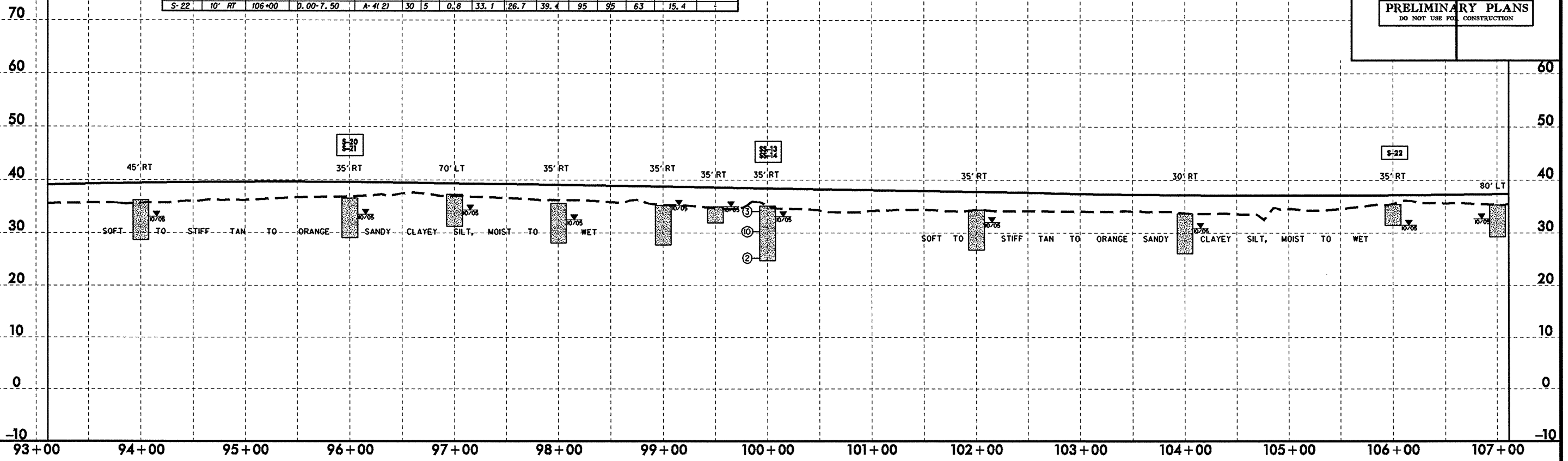
| VANE SHEAR TESTS | | | |
|------------------|--------|------------|---------|
| STATION | OFFSET | DEPTH (ft) | S (psf) |
| 80+00 | 20 RT | 0.5 | 3910 |
| 80+00 | 20 RT | 1.5 | 2965 |
| 80+00 | 20 RT | 2.0 | 2506 |

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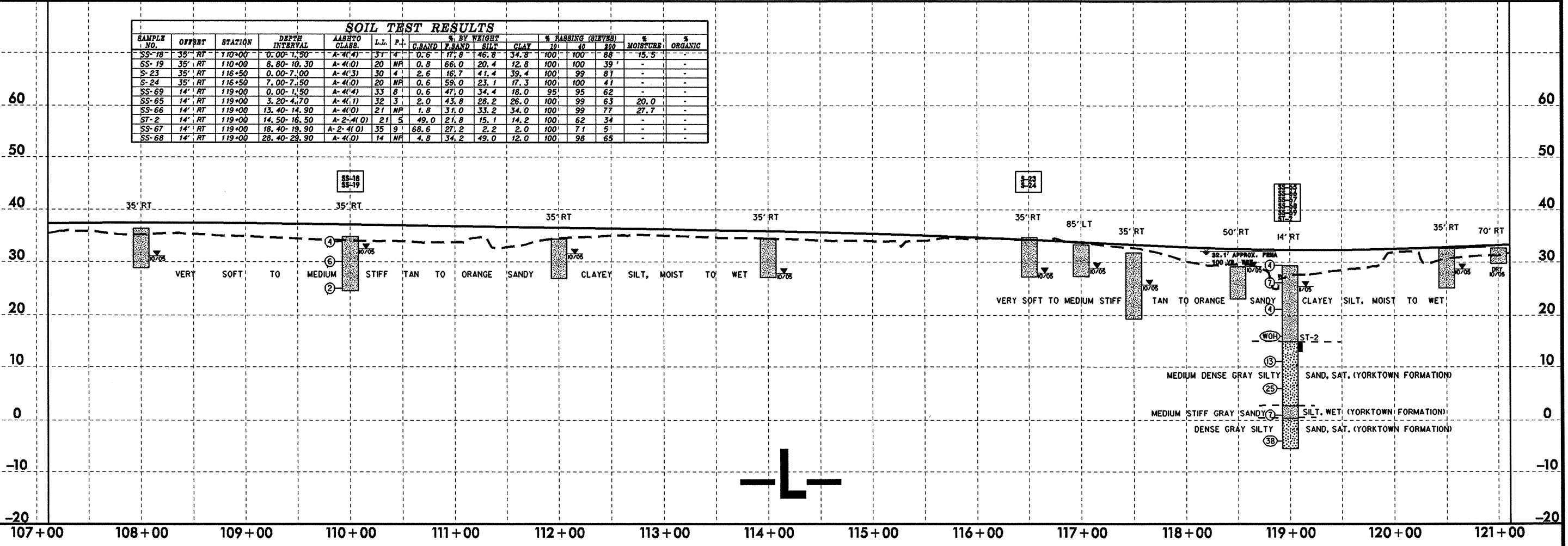
5/28/99

| | |
|---------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 23 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|---------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | G. SAND | F. SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-20 | 35' RT | 96+00 | 0.00-4.00 | A-4(0) | 22 | NP | 6.4 | 55.2 | 21.1 | 17.3 | 100 | 97 | 42 | - | - |
| S-21 | 35' RT | 96+00 | 4.00-7.50 | A-4(2) | 28 | 5 | 1.8 | 26.7 | 36.1 | 35.3 | 100 | 99 | 72 | 22.3 | - |
| SS-13 | 35' RT | 100+00 | 0.00-1.50 | A-4(4) | 30 | 8 | 1.0 | 41.0 | 21.2 | 36.8 | 95 | 95 | 65 | 15.3 | - |
| SS-14 | 35' RT | 100+00 | 6.80-10.30 | A-4(0) | 26 | 1 | 1.0 | 41.8 | 32.4 | 24.8 | 100 | 99 | 66 | - | - |
| S-22 | 10' RT | 106+00 | 0.00-7.50 | A-4(2) | 30 | 5 | 0.8 | 33.1 | 26.7 | 39.4 | 95 | 95 | 63 | 15.4 | - |



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|---------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | G. SAND | F. SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-18 | 35' RT | 110+00 | 0.00-1.50 | A-4(4) | 37 | 4 | 0.6 | 17.8 | 46.8 | 34.8 | 100 | 100 | 88 | 15.5 | - |
| SS-19 | 35' RT | 110+00 | 8.80-10.30 | A-4(0) | 20 | NP | 0.8 | 66.0 | 20.4 | 12.8 | 100 | 100 | 39 | - | - |
| S-23 | 35' RT | 116+50 | 0.00-7.00 | A-4(3) | 30 | 4 | 2.6 | 16.7 | 41.4 | 39.4 | 100 | 99 | 81 | - | - |
| S-24 | 35' RT | 116+50 | 7.00-7.50 | A-4(0) | 20 | NP | 0.6 | 59.0 | 23.1 | 17.3 | 100 | 100 | 41 | - | - |
| SS-69 | 14' RT | 119+00 | 0.00-1.50 | A-4(4) | 33 | 8 | 0.6 | 47.0 | 34.4 | 18.0 | 95 | 95 | 62 | - | - |
| SS-65 | 14' RT | 119+00 | 3.20-4.70 | A-4(1) | 32 | 3 | 2.0 | 45.8 | 28.2 | 26.0 | 100 | 99 | 63 | 20.0 | - |
| SS-66 | 14' RT | 119+00 | 13.40-14.90 | A-4(0) | 27 | NP | 1.8 | 31.0 | 33.2 | 34.0 | 100 | 99 | 77 | 27.7 | - |
| ST-2 | 14' RT | 119+00 | 14.50-16.50 | A-2-4(0) | 21 | 5 | 49.0 | 21.8 | 15.1 | 14.2 | 100 | 62 | 34 | - | - |
| SS-67 | 14' RT | 119+00 | 18.40-19.90 | A-2-4(0) | 35 | 9 | 68.6 | 27.2 | 2.2 | 2.0 | 100 | 71 | 5 | - | - |
| SS-68 | 14' RT | 119+00 | 28.40-29.90 | A-4(0) | 14 | NP | 4.8 | 34.2 | 49.0 | 12.0 | 100 | 98 | 65 | - | - |

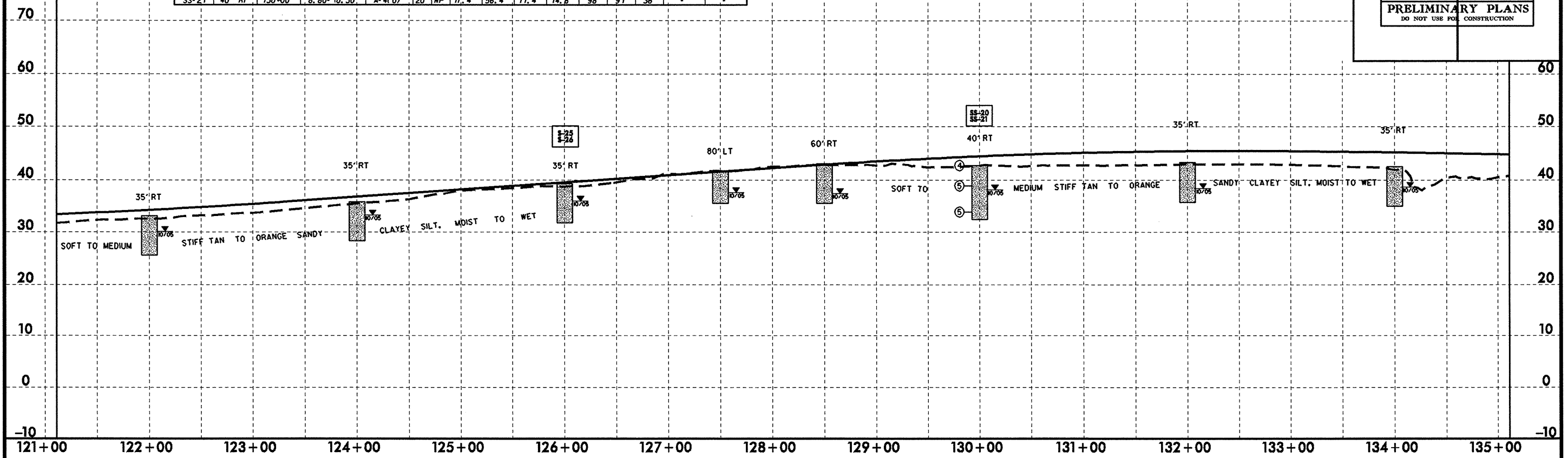


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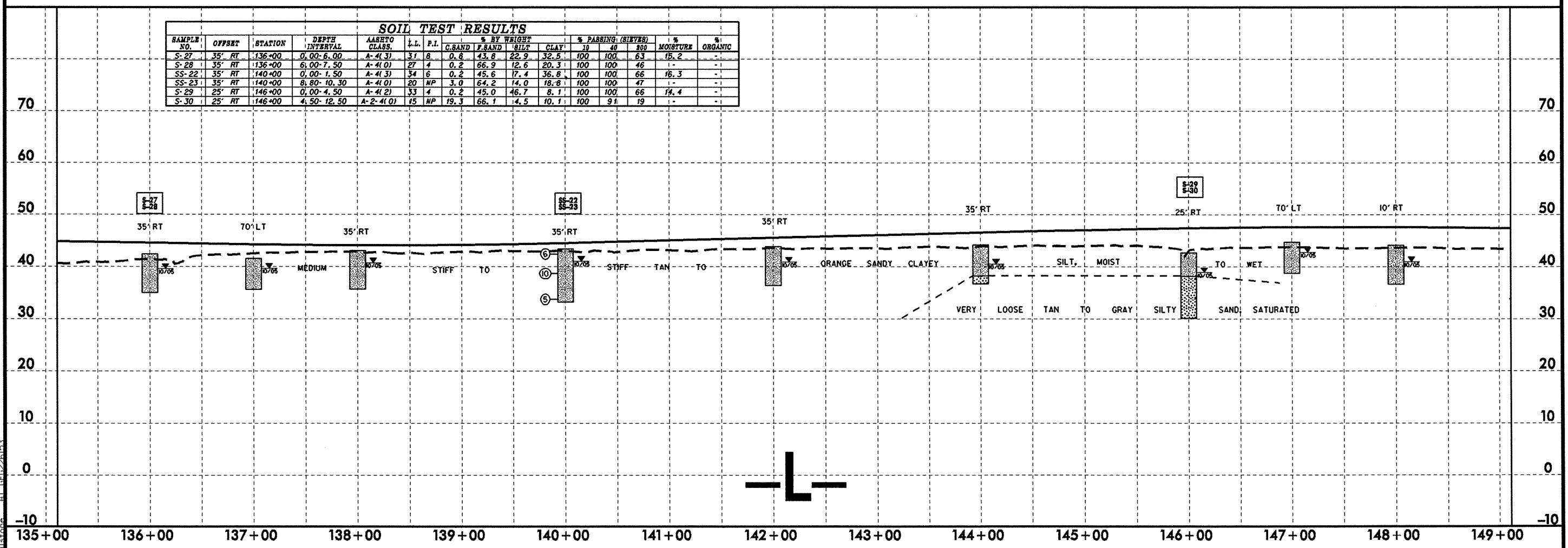
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| | |
|---------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 24 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AAHSTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-29 | 35' RT | 126+00 | 0.00-6.00 | A-4(3) | 36 | 5 | 0.4 | 36.7 | 25.5 | 37.3 | 100 | 100 | 63 | 14.0 | - |
| S-26 | 35' RT | 126+00 | 6.00-7.50 | A-4(0) | 26 | 3 | 12.0 | 56.2 | 13.6 | 18.3 | 100 | 95 | 39 | - | - |
| SS-20 | 40' RT | 130+00 | 0.00-1.50 | A-4(4) | 33 | 10 | 0.4 | 48.4 | 14.4 | 36.8 | 100 | 100 | 62 | 11.6 | - |
| SS-21 | 40' RT | 130+00 | 8.80-10.30 | A-4(0) | 20 | NP | 17.4 | 56.4 | 11.4 | 14.8 | 98 | 91 | 36 | - | - |



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AAHSTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-27 | 35' RT | 136+00 | 0.00-6.00 | A-4(3) | 31 | 8 | 0.8 | 43.8 | 22.9 | 32.5 | 100 | 100 | 63 | 15.2 | - |
| S-28 | 35' RT | 136+00 | 6.00-7.50 | A-4(0) | 27 | 4 | 0.2 | 66.9 | 12.6 | 20.3 | 100 | 100 | 46 | - | - |
| SS-22 | 35' RT | 140+00 | 0.00-1.50 | A-4(3) | 34 | 6 | 0.2 | 45.6 | 17.4 | 36.8 | 100 | 100 | 66 | 16.3 | - |
| SS-23 | 35' RT | 140+00 | 8.80-10.30 | A-4(0) | 20 | NP | 3.0 | 64.2 | 14.0 | 18.8 | 100 | 100 | 47 | - | - |
| S-29 | 25' RT | 146+00 | 0.00-4.50 | A-4(2) | 33 | 4 | 0.2 | 45.0 | 46.7 | 8.1 | 100 | 100 | 66 | 14.4 | - |
| S-30 | 25' RT | 146+00 | 4.50-12.50 | A-2-4(0) | 15 | NP | 19.3 | 66.1 | 14.5 | 10.1 | 100 | 91 | 19 | - | - |

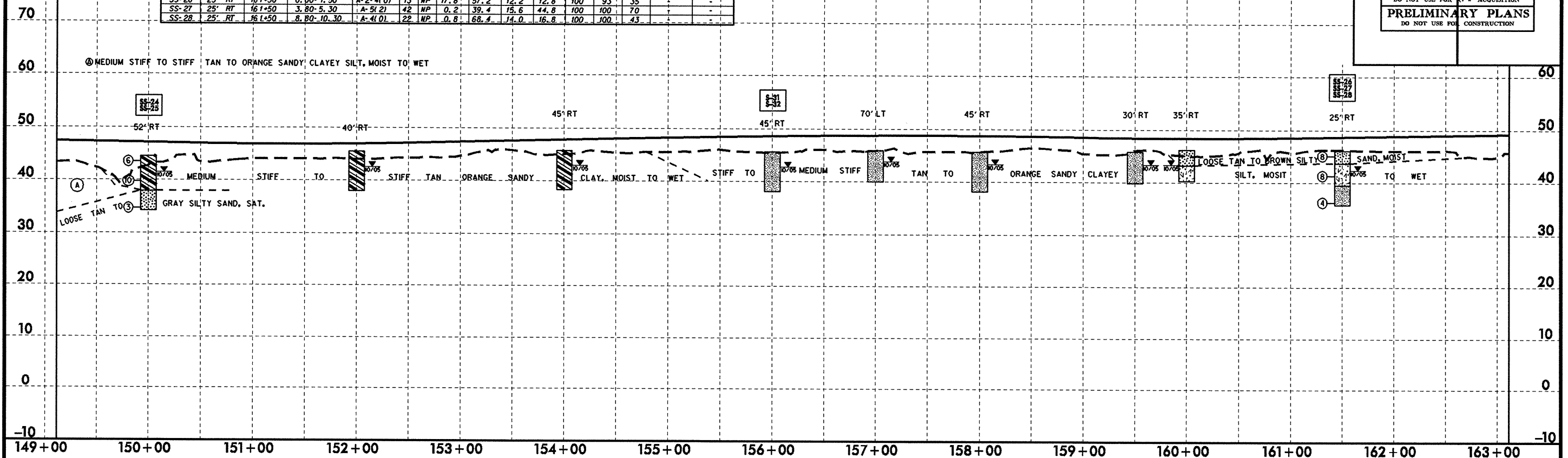


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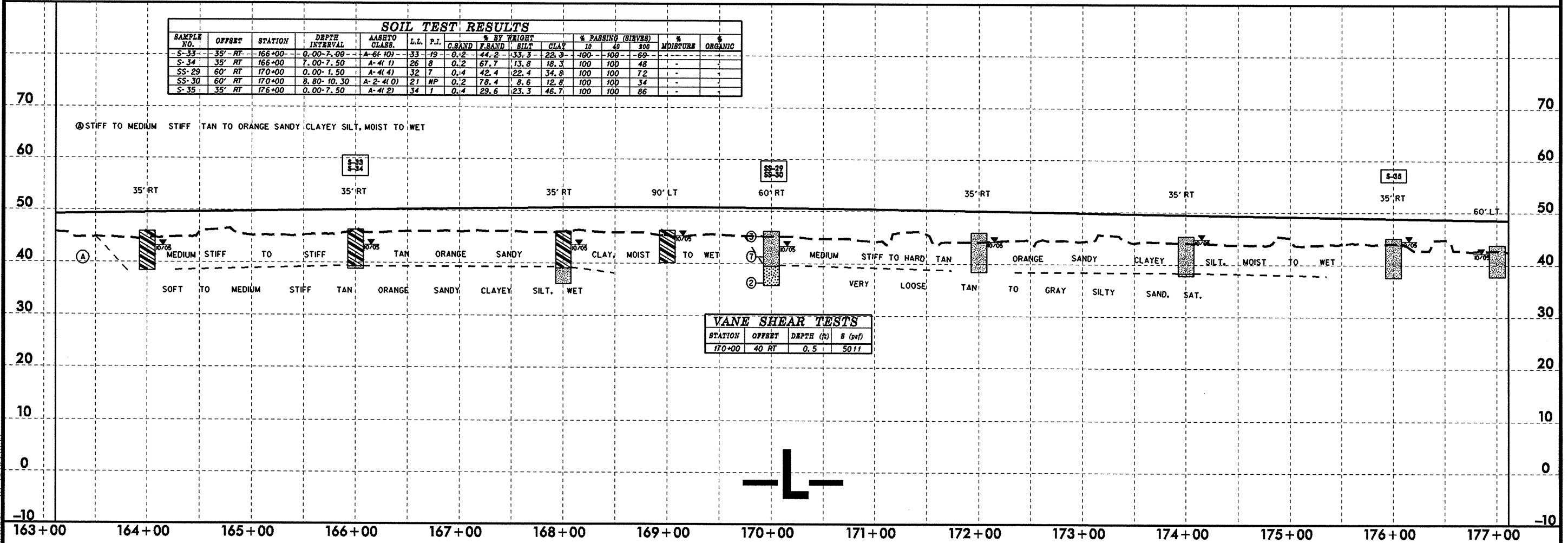
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| | |
|---------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 25 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | UNIFIED CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|----------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| | | | | | | | C.BAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-24 | 52' RT | 150+00 | 0.00-1.50 | A-6(8) | 36 | 16 | 0.2 | 47.6 | 13.4 | 36.8 | 100 | 100 | 63 | 13.0 | - |
| SS-25 | 52' RT | 150+00 | 8.80-10.30 | A-2-4(0) | 22 | NP | 2.8 | 78.6 | 7.8 | 10.8 | 100 | 99 | 27 | - | - |
| S-31 | 45' RT | 156+00 | 0.00-7.50 | A-4(0) | 27 | 3 | 0.8 | 49.1 | 31.8 | 18.3 | 100 | 100 | 60 | - | - |
| S-32 | 45' RT | 156+00 | 7.00-7.50 | A-4(0) | 18 | NP | 1.0 | 72.0 | 14.8 | 12.2 | 100 | 100 | 37 | - | - |
| SS-26 | 25' RT | 161+50 | 0.00-1.50 | A-2-4(0) | 13 | NP | 17.8 | 57.2 | 12.2 | 12.8 | 100 | 93 | 35 | - | - |
| SS-27 | 25' RT | 161+50 | 3.80-5.30 | A-5(2) | 42 | NP | 0.2 | 39.4 | 15.6 | 44.8 | 100 | 100 | 70 | - | - |
| SS-28 | 25' RT | 161+50 | 8.80-10.30 | A-4(0) | 22 | NP | 0.8 | 68.4 | 14.0 | 16.8 | 100 | 100 | 43 | - | - |



| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | UNIFIED CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|----------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| | | | | | | | C.BAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-33 | 35' RT | 166+00 | 0.00-7.00 | A-6(10) | 33 | 19 | 0.2 | 44.2 | 33.3 | 22.3 | 100 | 100 | 69 | - | - |
| S-34 | 35' RT | 166+00 | 7.00-7.50 | A-4(1) | 26 | 8 | 0.2 | 67.7 | 13.8 | 18.3 | 100 | 100 | 48 | - | - |
| SS-29 | 60' RT | 170+00 | 0.00-1.50 | A-4(4) | 32 | 7 | 0.4 | 42.4 | 22.4 | 34.8 | 100 | 100 | 72 | - | - |
| SS-30 | 60' RT | 170+00 | 8.80-10.30 | A-2-4(0) | 21 | NP | 0.2 | 78.4 | 8.6 | 12.8 | 100 | 100 | 34 | - | - |
| S-35 | 35' RT | 176+00 | 0.00-7.50 | A-4(2) | 34 | 1 | 0.4 | 29.6 | 23.3 | 46.7 | 100 | 100 | 86 | - | - |



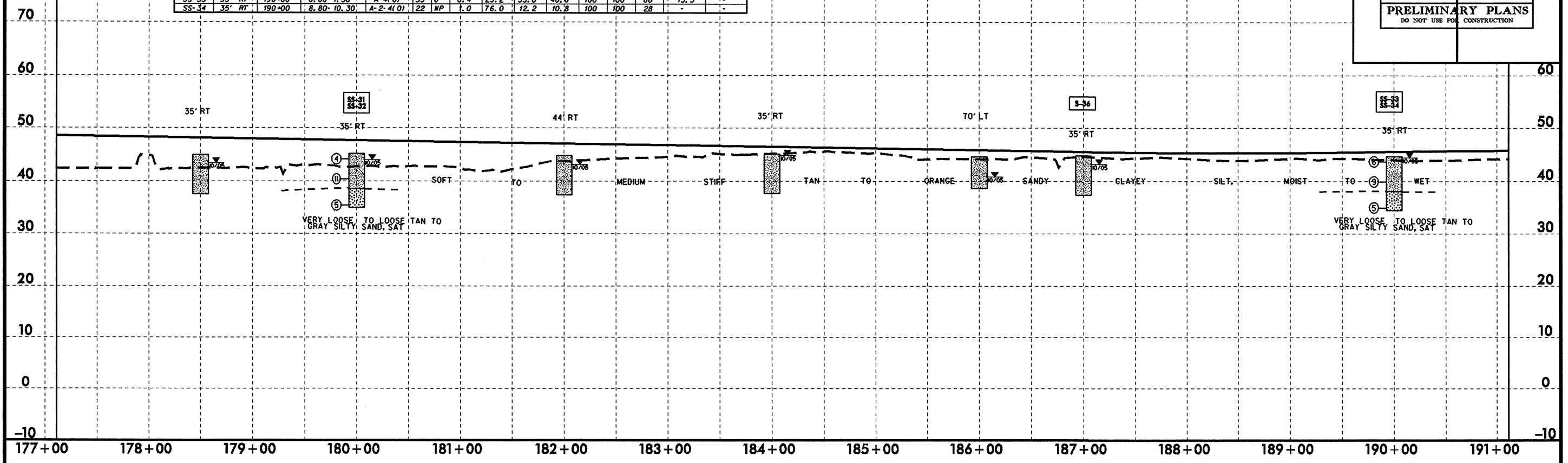
| VANE SHEAR TESTS | | | |
|------------------|--------|------------|---------|
| STATION | OFFSET | DEPTH (ft) | S (psf) |
| 170+00 | 40 RT | 0.5 | 5011 |

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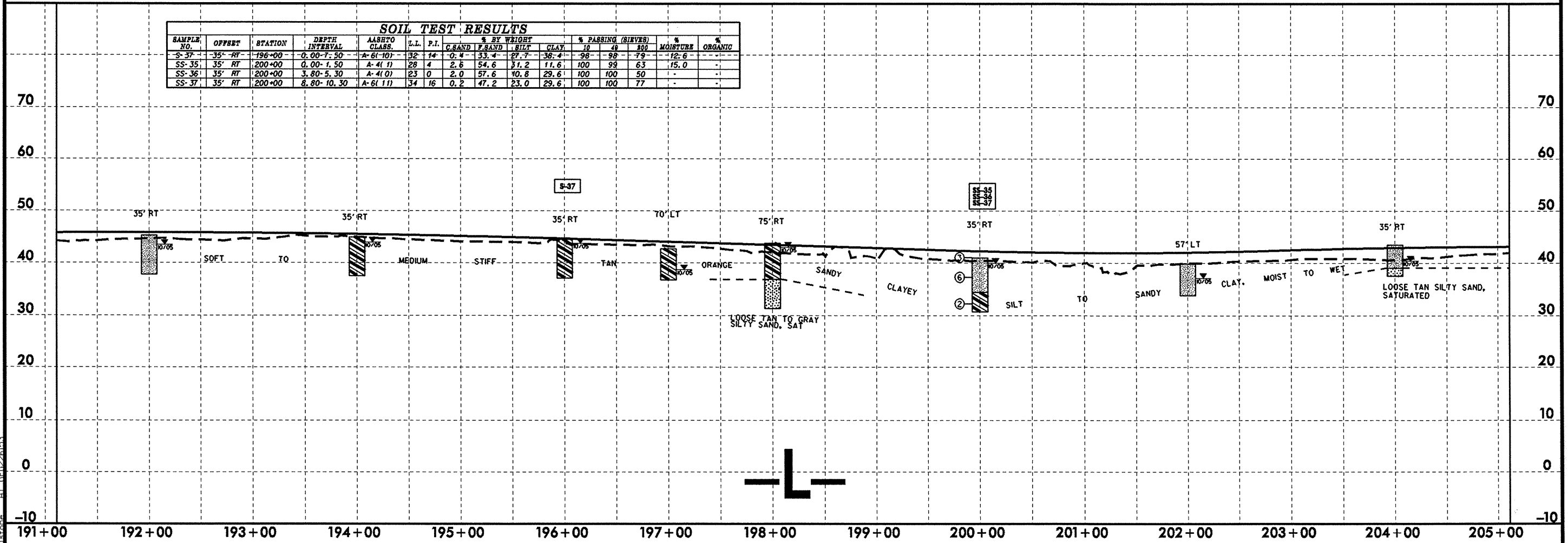
5/28/99

| | |
|---------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 26 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|-----|------------|-----------|-----|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | | | 200 |
| SS-31 | 35' RT | 180+00 | 0.00-1.50 | A-4(4) | 32 | 5 | 0.4 | 33.2 | 27.6 | 38.8 | 97 | 97 | 81 | 10.0 | - |
| SS-32 | 35' RT | 180+00 | 8.80-10.30 | A-2-4(0) | 22 | NP | 5.4 | 73.8 | 10.0 | 10.8 | 95 | 94 | 31 | - | - |
| S-35 | 35' RT | 187+00 | 0.00-7.50 | A-4(3) | 26 | 5 | 0.4 | 28.6 | 54.8 | 16.2 | 100 | 100 | 85 | 18.8 | - |
| SS-33 | 35' RT | 190+00 | 0.00-1.50 | A-4(8) | 35 | 8 | 0.4 | 25.2 | 33.6 | 40.8 | 100 | 100 | 86 | 13.3 | - |
| SS-34 | 35' RT | 190+00 | 8.80-10.30 | A-2-4(0) | 22 | NP | 1.0 | 78.0 | 12.2 | 10.8 | 100 | 100 | 28 | - | - |



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|-----|------------|-----------|-----|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | | | 200 |
| S-37 | 35' RT | 196+00 | 0.00-7.50 | A-6(10) | 32 | 14 | 0.4 | 33.4 | 27.7 | 38.4 | 98 | 98 | 79 | 12.6 | - |
| SS-35 | 35' RT | 200+00 | 0.00-1.50 | A-4(1) | 28 | 4 | 2.6 | 54.6 | 31.2 | 11.6 | 100 | 99 | 63 | 15.0 | - |
| SS-36 | 35' RT | 200+00 | 3.80-5.30 | A-4(0) | 23 | 0 | 2.0 | 57.6 | 40.8 | 29.6 | 100 | 100 | 50 | - | - |
| SS-37 | 35' RT | 200+00 | 8.80-10.30 | A-6(11) | 34 | 16 | 0.2 | 47.2 | 23.0 | 29.6 | 100 | 100 | 77 | - | - |



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SOIL TEST RESULTS

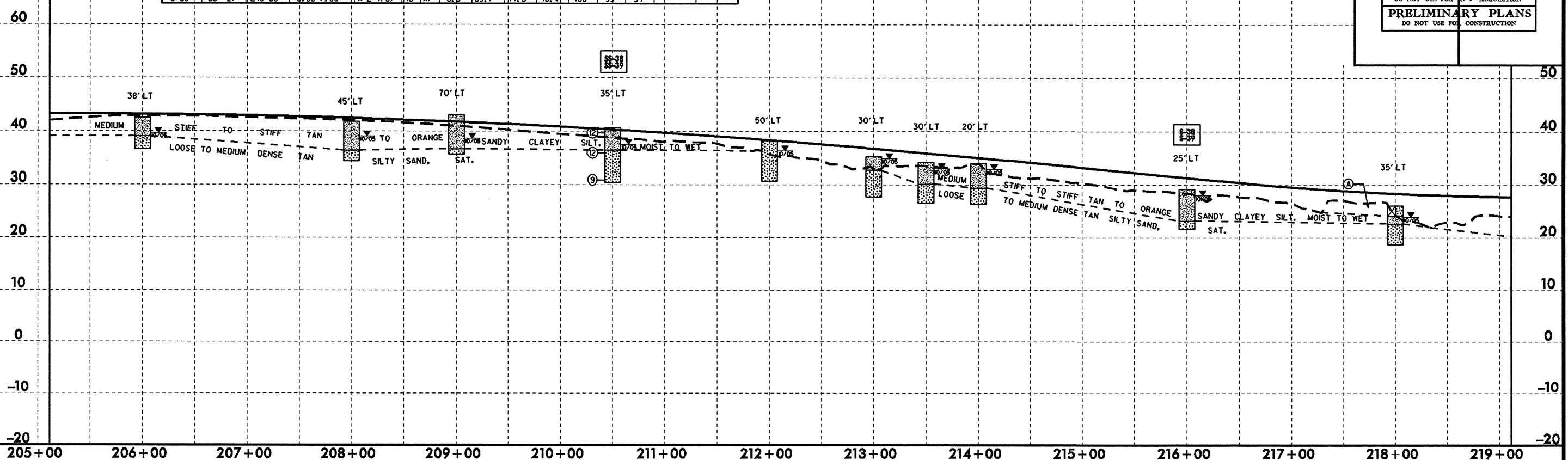
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | | % PASSING (SIEVES) | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|-----|--------------------|----|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 200 | | | |
| SS-38 | 35' LT | 210+50 | 0.00-1.50 | A-4(0) | 22 | NP | 5.0 | 57.4 | 19.0 | 27.6 | 100 | 99 | 42 | 10.6 | - |
| SS-39 | 35' LT | 210+50 | 4.30-5.30 | A-2-4(0) | 16 | NP | 31.0 | 58.4 | 3.0 | 7.6 | 100 | 90 | 13 | - | - |
| S-38 | 35' LT | 216+00 | 0.00-6.00 | A-4(0) | 16 | NP | 5.6 | 59.7 | 18.3 | 16.4 | 100 | 99 | 45 | - | - |
| S-39 | 35' LT | 216+00 | 6.00-7.50 | A-2-4(0) | 16 | NP | 8.6 | 69.7 | 11.3 | 10.4 | 100 | 99 | 31 | - | - |

PROJECT REFERENCE NO. **R-2510C** SHEET NO. **27**

ROADWAY DESIGN ENGINEER _____ HYDRAULICS ENGINEER _____

INCOMPLETE PLANS
DO NOT USE FOR A/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

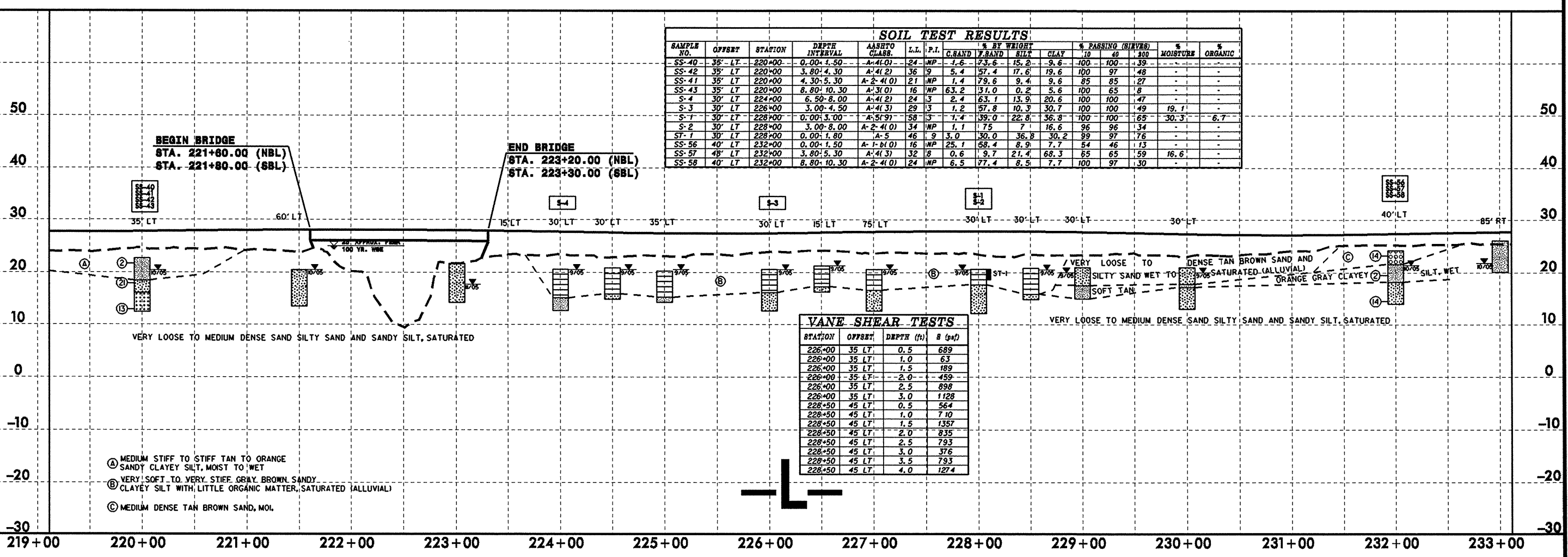


SOIL TEST RESULTS

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | | % PASSING (SIEVES) | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|-----|--------------------|------|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 200 | | | |
| SS-40 | 35' LT | 220+00 | 0.00-1.50 | A-4(0) | 24 | NP | 1.6 | 73.6 | 15.2 | 9.6 | 100 | 100 | 39 | - | - |
| SS-42 | 35' LT | 220+00 | 3.80-4.30 | A-4(2) | 36 | 9 | 5.4 | 57.4 | 17.6 | 19.6 | 100 | 97 | 48 | - | - |
| SS-41 | 35' LT | 220+00 | 4.30-5.30 | A-2-4(0) | 21 | NP | 1.4 | 79.6 | 9.4 | 9.6 | 85 | 85 | 27 | - | - |
| SS-43 | 35' LT | 220+00 | 8.80-10.30 | A-3(0) | 16 | NP | 63.2 | 31.0 | 0.2 | 5.6 | 100 | 65 | 8 | - | - |
| S-4 | 30' LT | 224+00 | 6.50-8.00 | A-4(2) | 24 | 3 | 2.4 | 63.1 | 13.9 | 20.6 | 100 | 100 | 47 | - | - |
| S-3 | 30' LT | 226+00 | 3.00-4.50 | A-4(3) | 29 | 3 | 1.2 | 57.8 | 10.3 | 30.7 | 100 | 100 | 49 | 19.1 | - |
| S-1 | 30' LT | 228+00 | 0.00-3.00 | A-5(9) | 58 | 3 | 1.4 | 39.0 | 22.8 | 36.8 | 100 | 100 | 65 | 30.3 | 6.7 |
| S-2 | 30' LT | 228+00 | 3.00-8.00 | A-2-4(0) | 34 | NP | 1.1 | 75 | 7 | 16.6 | 96 | 96 | 34 | - | - |
| ST-1 | 30' LT | 228+00 | 0.00-1.80 | A-5 | 46 | 9 | 3.0 | 30.0 | 36.8 | 30.2 | 97 | 76 | - | - | - |
| SS-56 | 40' LT | 232+00 | 0.00-1.50 | A-1-6(0) | 16 | NP | 25.1 | 58.4 | 8.9 | 7.7 | 54 | 46 | 13 | - | - |
| SS-57 | 48' LT | 232+00 | 3.80-5.30 | A-4(3) | 32 | 8 | 0.6 | 9.7 | 21.4 | 68.3 | 65 | 59 | 16.6 | - | - |
| SS-58 | 40' LT | 232+00 | 8.80-10.30 | A-2-4(0) | 24 | NP | 6.5 | 77.4 | 8.5 | 7.7 | 100 | 97 | 30 | - | - |

VANE SHEAR TESTS

| STATION | OFFSET | DEPTH (ft) | S (psf) |
|---------|--------|------------|---------|
| 226+00 | 35' LT | 0.5 | 689 |
| 226+00 | 35' LT | 1.0 | 63 |
| 226+00 | 35' LT | 1.5 | 189 |
| 226+00 | 35' LT | 2.0 | 459 |
| 226+00 | 35' LT | 2.5 | 898 |
| 226+00 | 35' LT | 3.0 | 1128 |
| 228+50 | 45' LT | 0.5 | 564 |
| 228+50 | 45' LT | 1.0 | 710 |
| 228+50 | 45' LT | 1.5 | 1357 |
| 228+50 | 45' LT | 2.0 | 835 |
| 228+50 | 45' LT | 2.5 | 793 |
| 228+50 | 45' LT | 3.0 | 376 |
| 228+50 | 45' LT | 3.5 | 793 |
| 228+50 | 45' LT | 4.0 | 1274 |

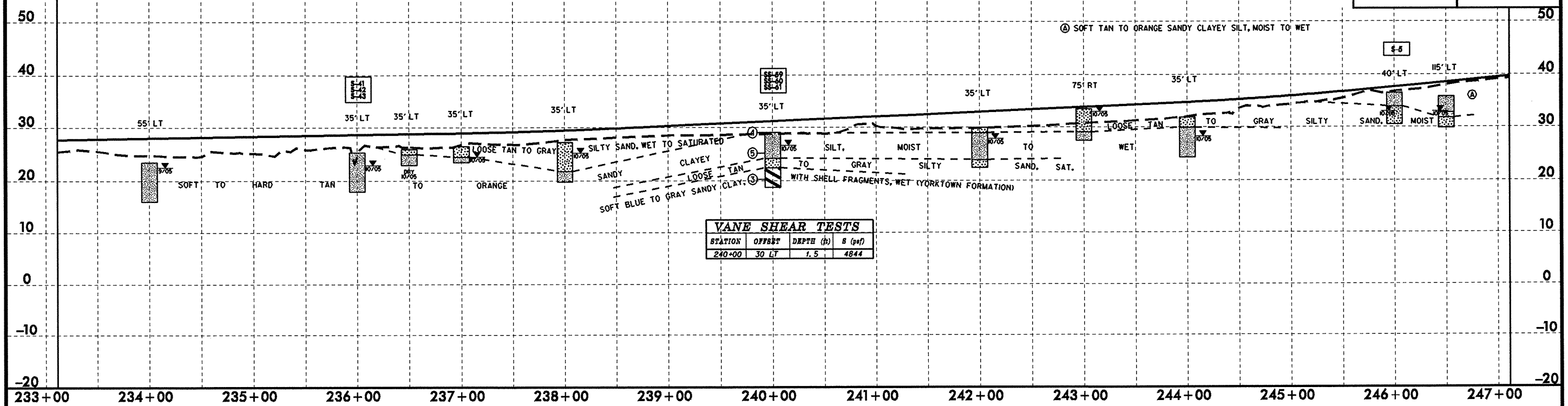


- Ⓐ MEDIUM STIFF TO STIFF TAN TO ORANGE SANDY CLAYEY SILT, MOIST TO WET
- Ⓑ VERY SOFT TO VERY STIFF TAN TO ORANGE SANDY CLAYEY SILT, MOIST TO WET
- Ⓒ MEDIUM DENSE TAN BROWN SAND, MOL.

5/28/99

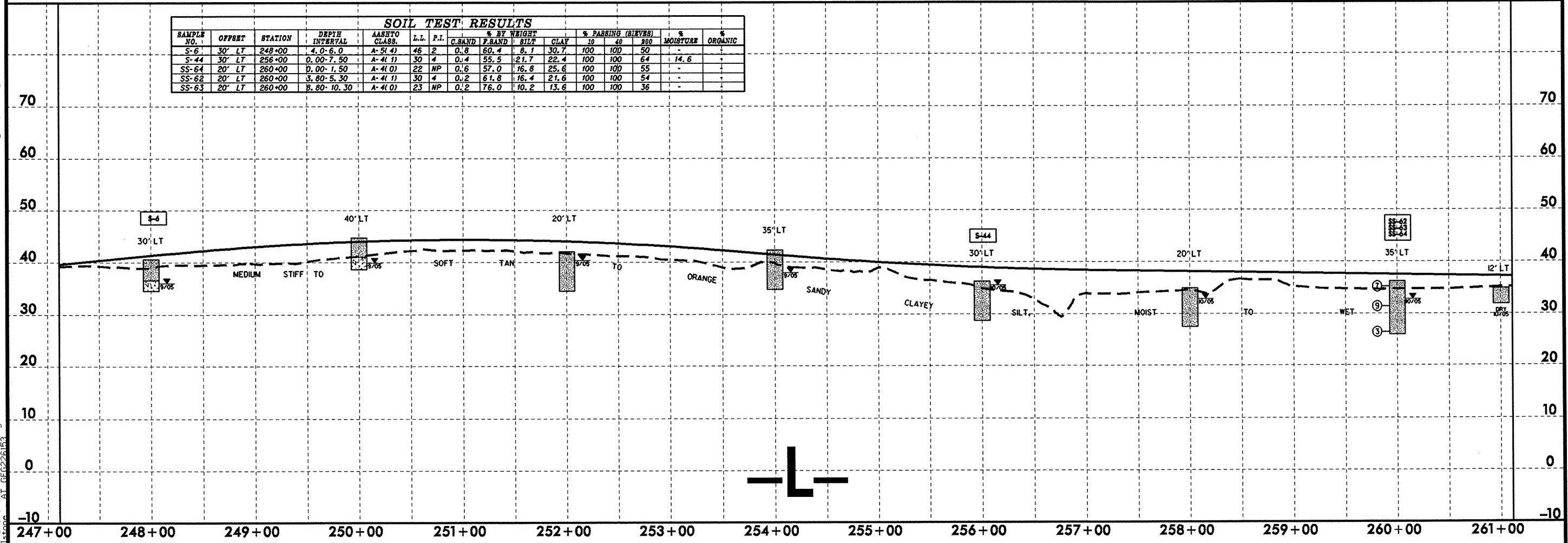
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|---------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2510C | 28 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|------|------------|-----------|---|
| | | | | | | | C.SAND | F.SAND | SILT | #10 | #40 | #200 | | | |
| S-41 | 35' LT | 236+00 | 0.00-3.00 | A-4(2) | 25 | 6 | 2.6 | 39.6 | 28.1 | 31.6 | 100 | 99 | 65 | 13.5 | - |
| S-42 | 35' LT | 236+00 | 3.00-6.00 | A-4(0) | 15 | NP | 2.0 | 67.3 | 18.3 | 12.4 | 100 | 100 | 43 | - | - |
| S-43 | 35' LT | 236+00 | 6.00-7.50 | A-4(0) | 27 | 4 | 1.0 | 54.1 | 30.5 | 14.4 | 100 | 100 | 55 | - | - |
| SS-59 | 35' LT | 240+00 | 0.00-1.50 | A-4(2) | 27 | 7 | 2.0 | 41.2 | 27.2 | 29.6 | 100 | 99 | 63 | 8.4 | - |
| SS-60 | 35' LT | 240+00 | 4.80-5.30 | A-2(4) | 15 | NP | 10.2 | 67.2 | 11.0 | 11.6 | 100 | 97 | 27 | - | - |
| SS-61 | 35' LT | 240+00 | 8.80-10.30 | A-6(2) | 40 | 12 | 16.6 | 35.8 | 22.0 | 25.6 | 62 | 53 | 41 | 14.3 | - |
| S-5 | 40' LT | 246+00 | 1.0-2.5 | A-4(1) | 17 | NP | 0.8 | 74.1 | 16.6 | 8.5 | 100 | 100 | 42 | - | - |



| STATION | OFFSET | DEPTH (ft) | S (psf) |
|---------|--------|------------|---------|
| 240+00 | 30' LT | 1.5 | 4844 |

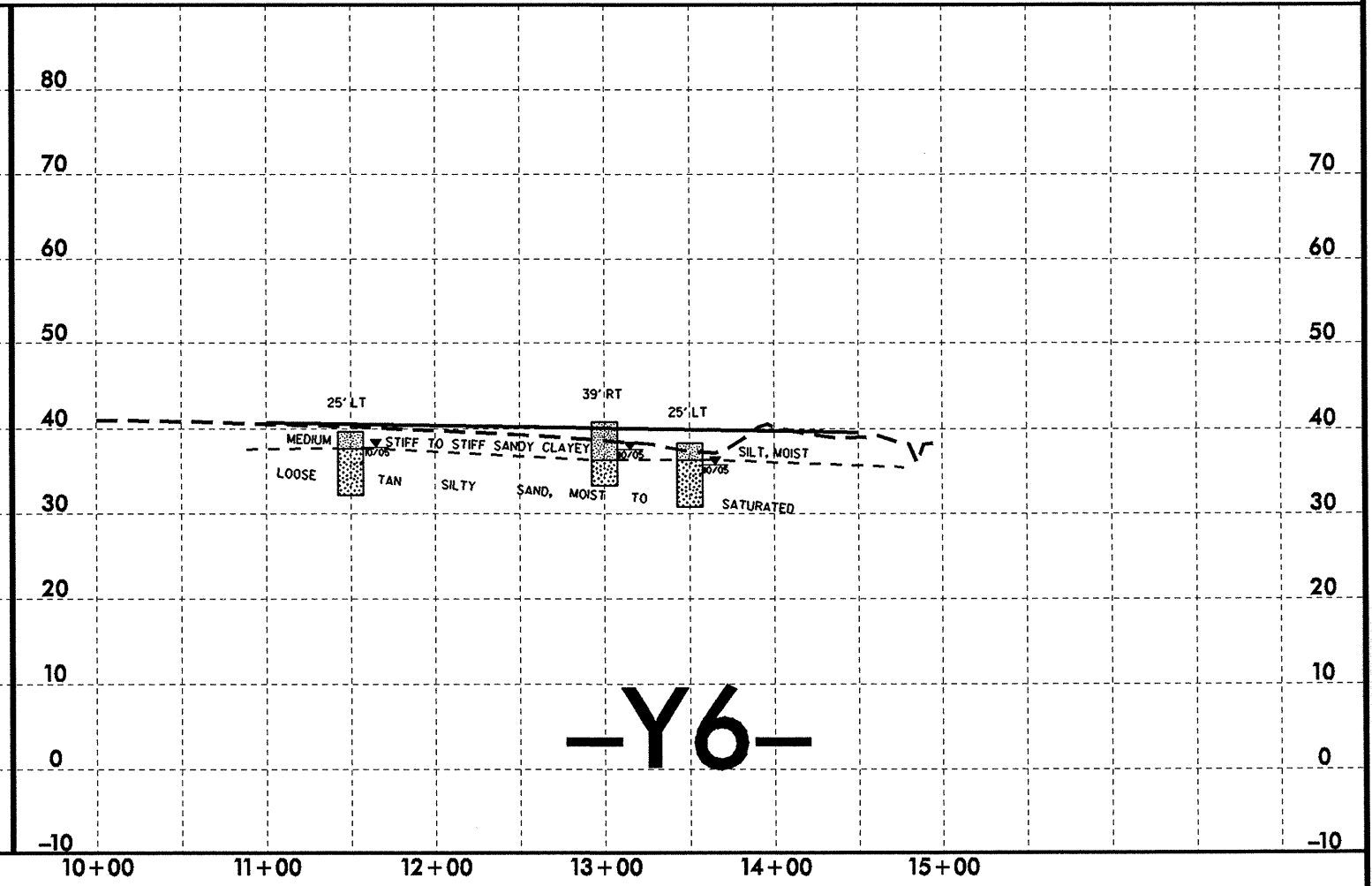
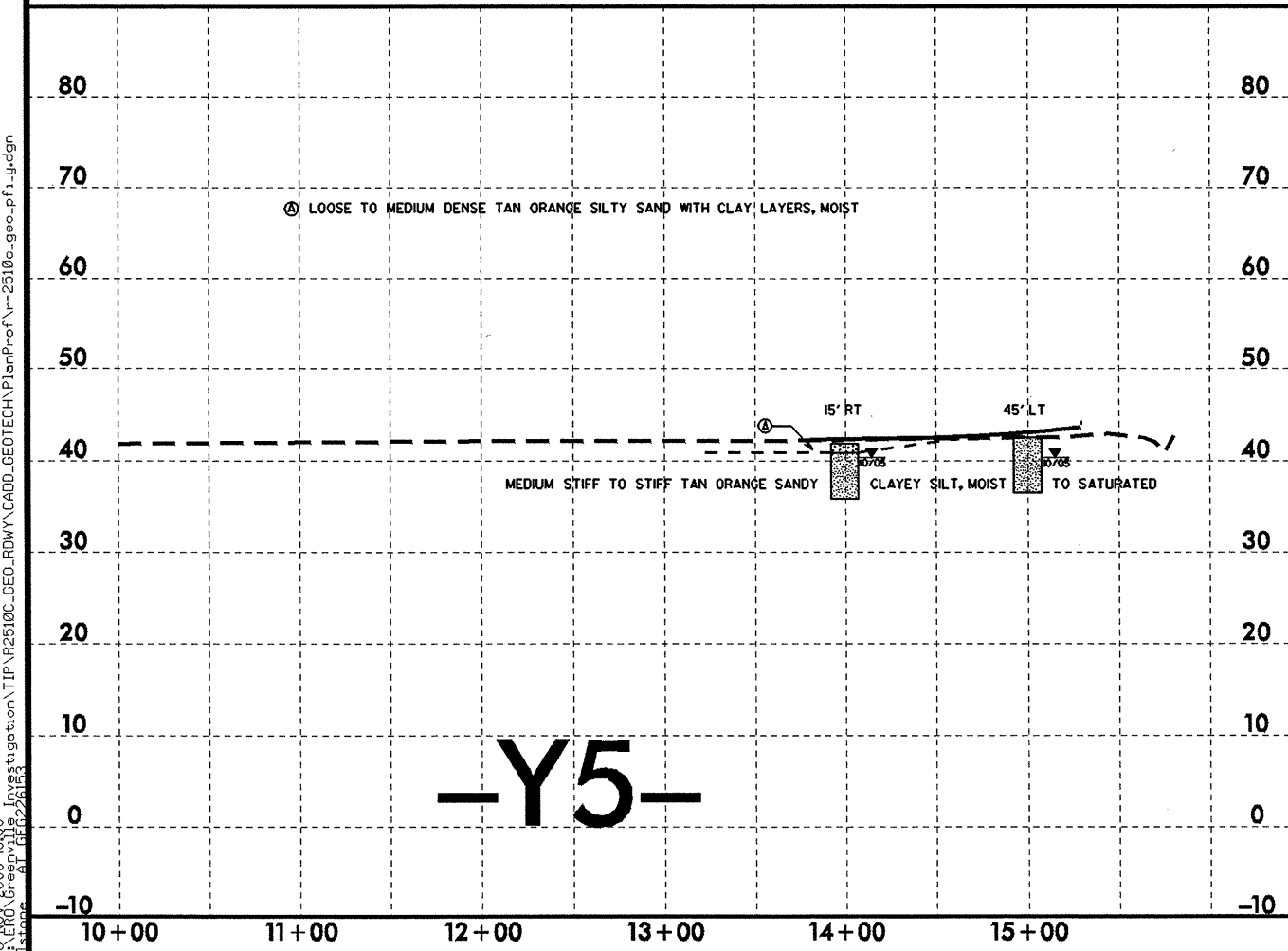
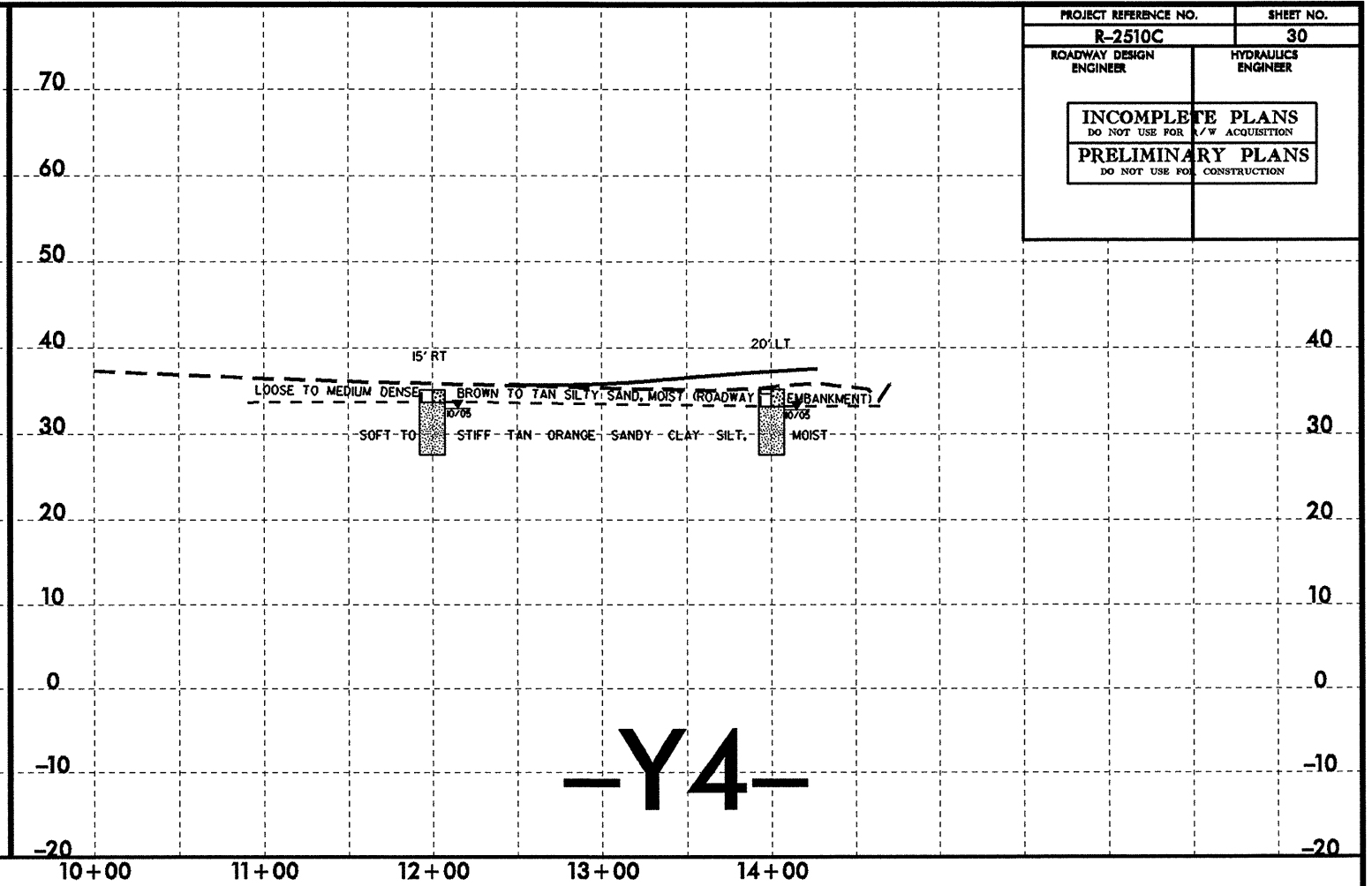
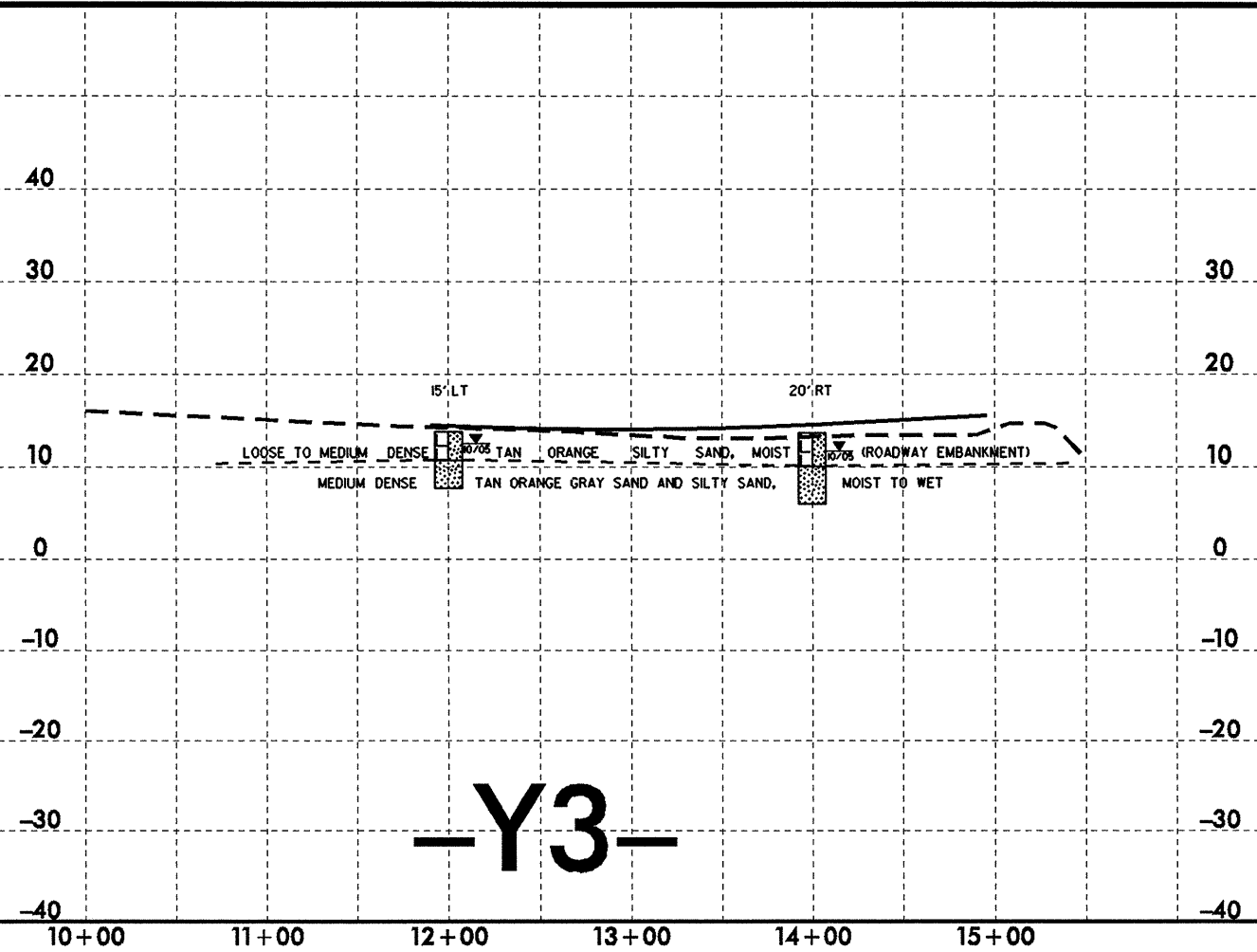
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|------|------------|-----------|---|
| | | | | | | | C.SAND | F.SAND | SILT | #10 | #40 | #200 | | | |
| S-6 | 30' LT | 248+00 | 4.0-6.0 | A-5(4) | 46 | 2 | 0.8 | 60.4 | 8.1 | 30.7 | 100 | 100 | 50 | - | - |
| S-44 | 30' LT | 256+00 | 0.00-7.50 | A-4(1) | 30 | 4 | 0.4 | 55.5 | 21.7 | 22.4 | 100 | 100 | 64 | 14.6 | - |
| SS-64 | 20' LT | 260+00 | 0.00-1.50 | A-4(0) | 22 | NP | 0.6 | 57.0 | 16.8 | 25.6 | 100 | 100 | 55 | - | - |
| SS-62 | 20' LT | 260+00 | 3.80-5.30 | A-4(1) | 30 | 4 | 0.2 | 61.8 | 16.4 | 21.6 | 100 | 100 | 54 | - | - |
| SS-63 | 20' LT | 260+00 | 8.80-10.30 | A-4(0) | 23 | NP | 0.2 | 76.0 | 10.2 | 13.8 | 100 | 100 | 36 | - | - |



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 User: gregory

5/28/99

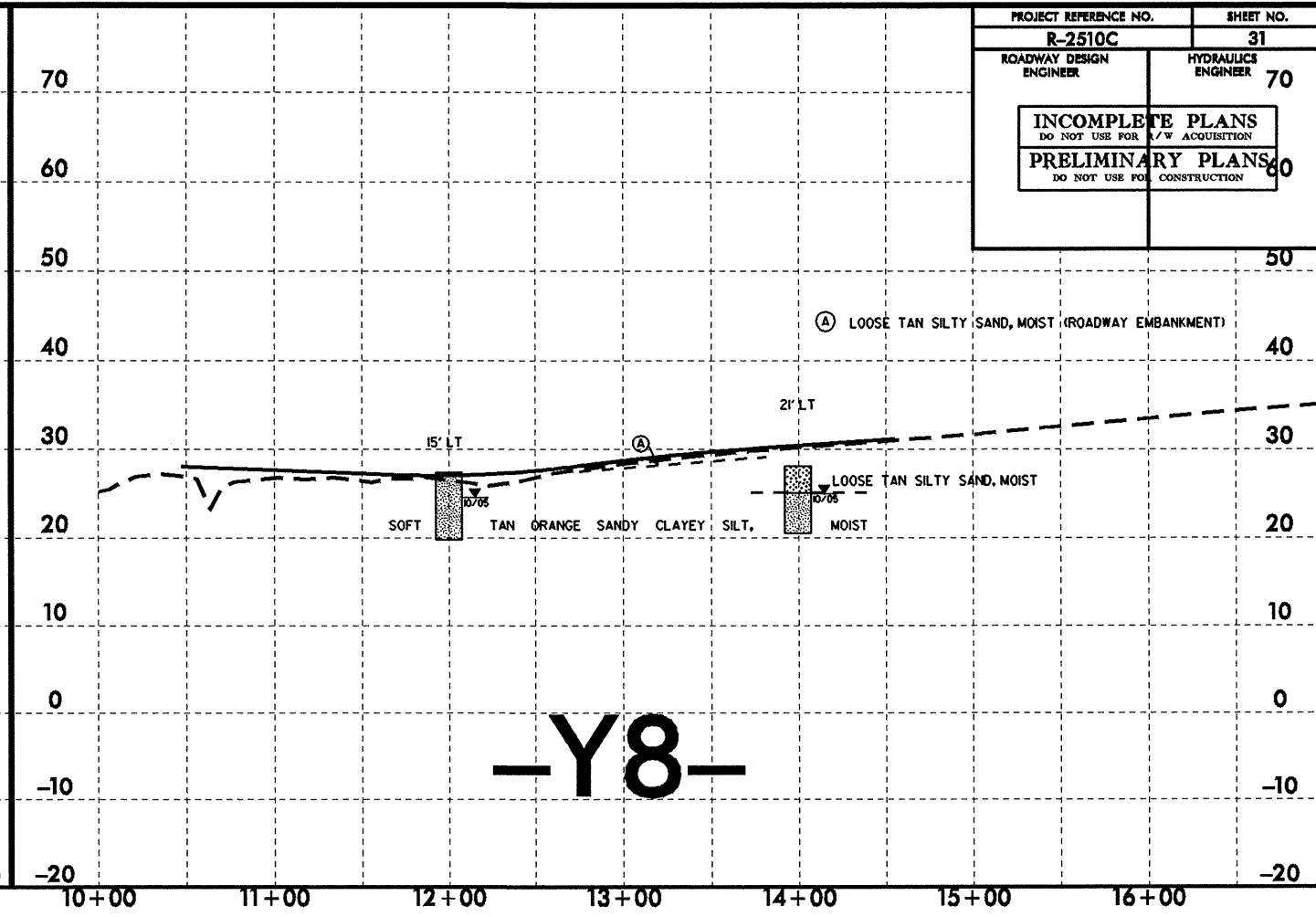
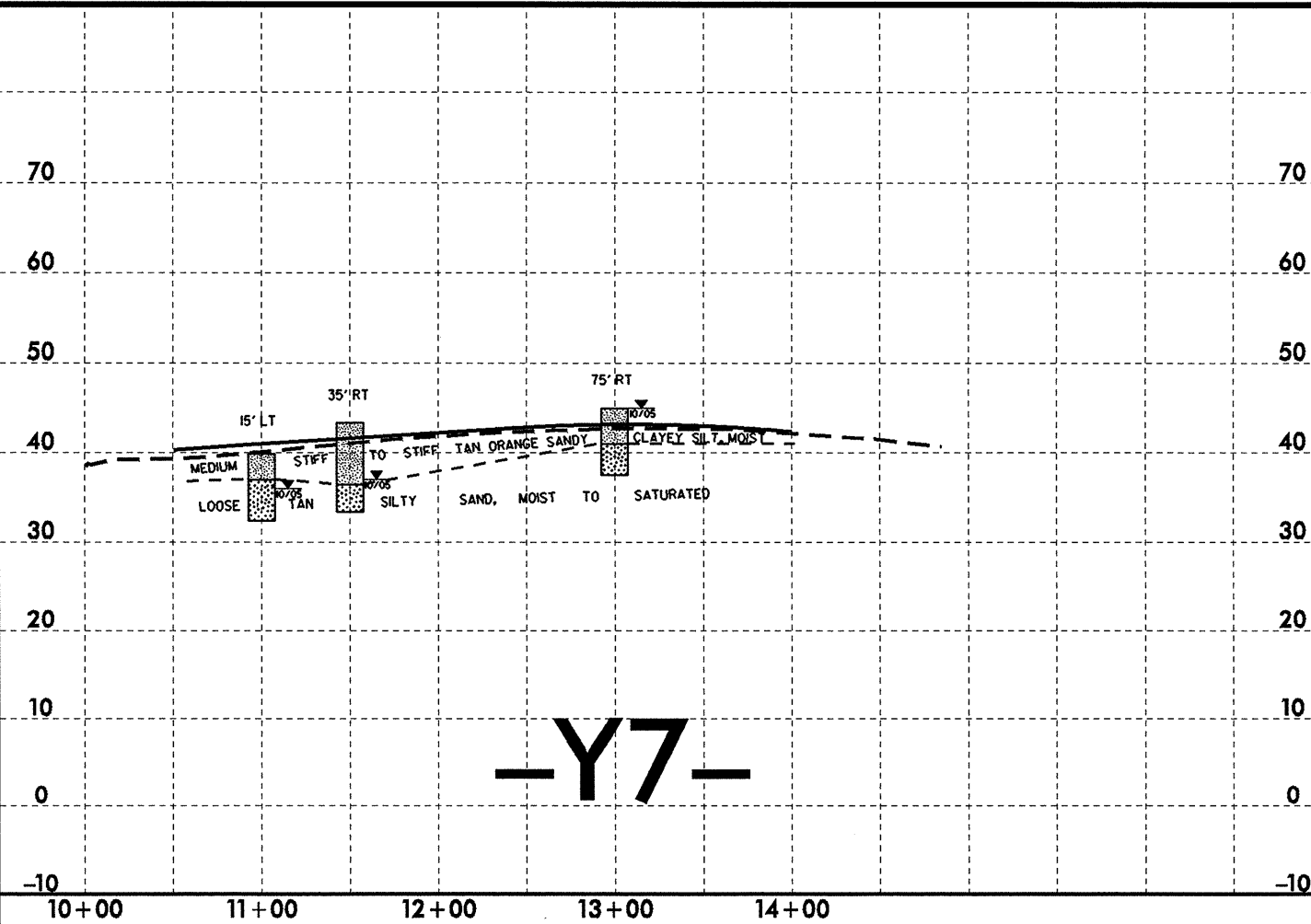
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|-----------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2510C | SHEET NO. 30 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



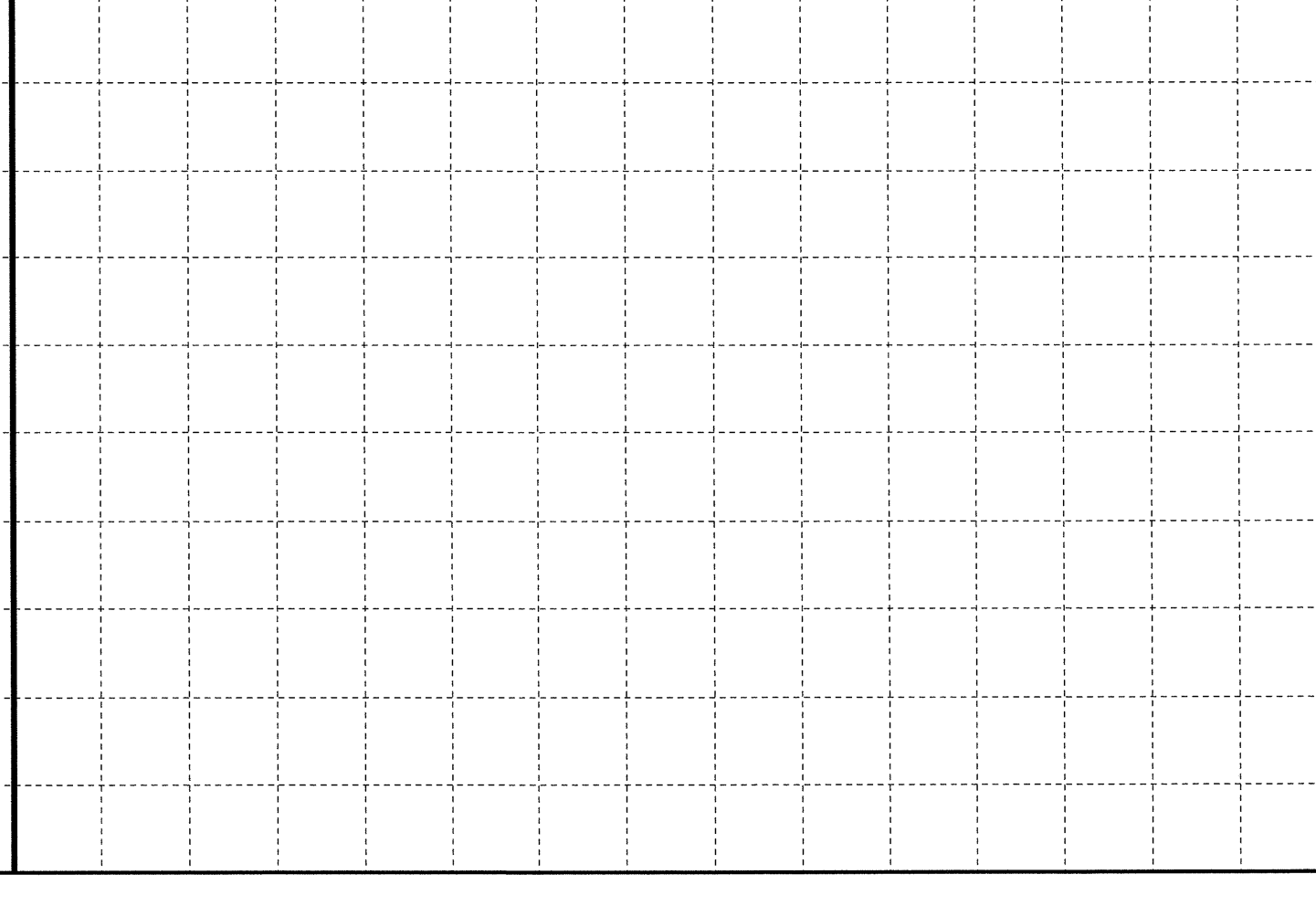
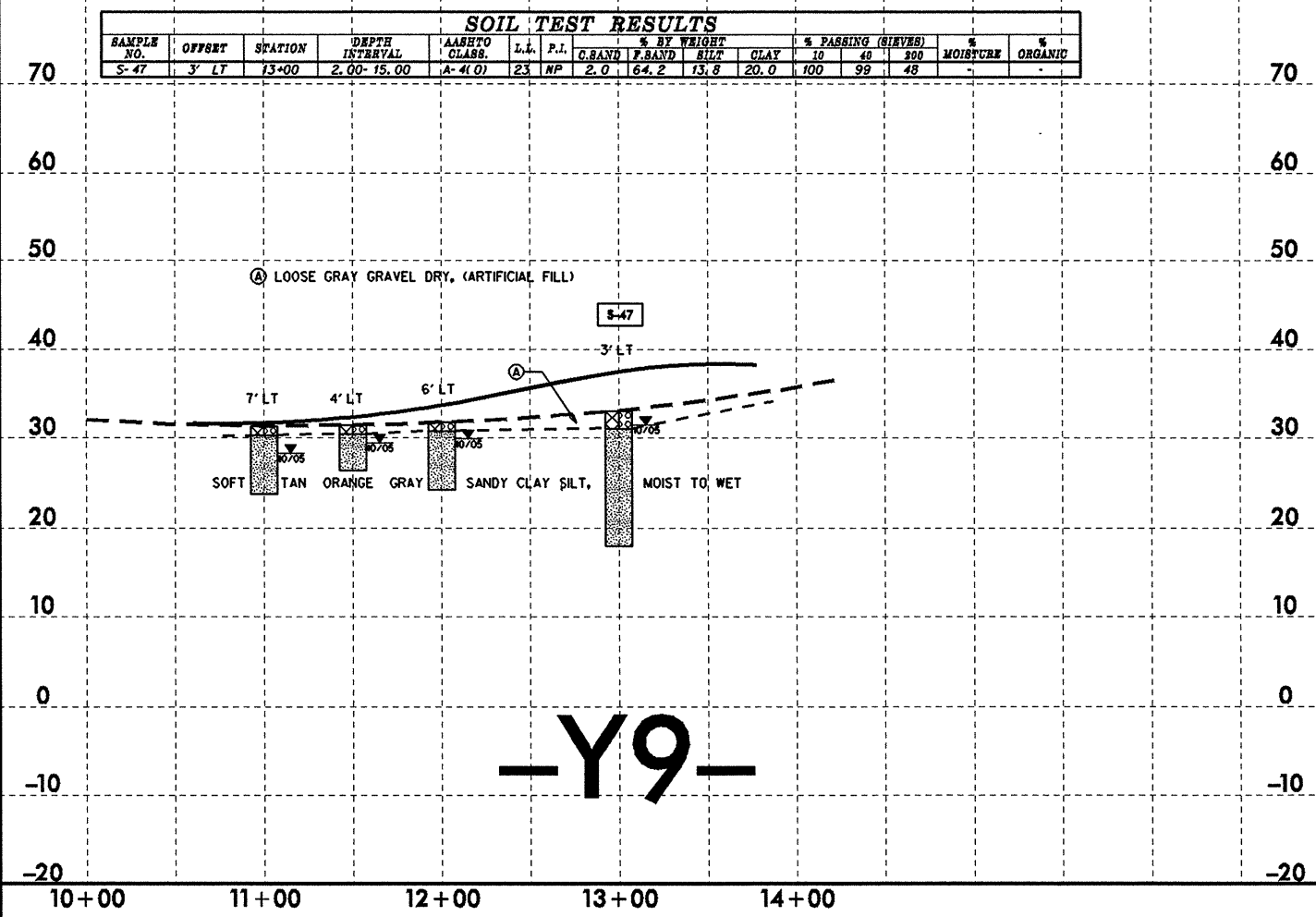
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5/28/99

| | | | |
|----------------------------------------------------|--|--------------------------------------------------|----|
| PROJECT REFERENCE NO. | | SHEET NO. | |
| R-2510C | | 31 | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | 70 |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION | | PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

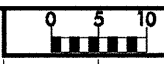


| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.BAND | F.BAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-47 | 3' LT | 13+00 | 2.00-15.00 | A-4(0) | 23 | NP | 2.0 | 64.2 | 13.8 | 20.0 | 100 | 99 | 48 | - | - |

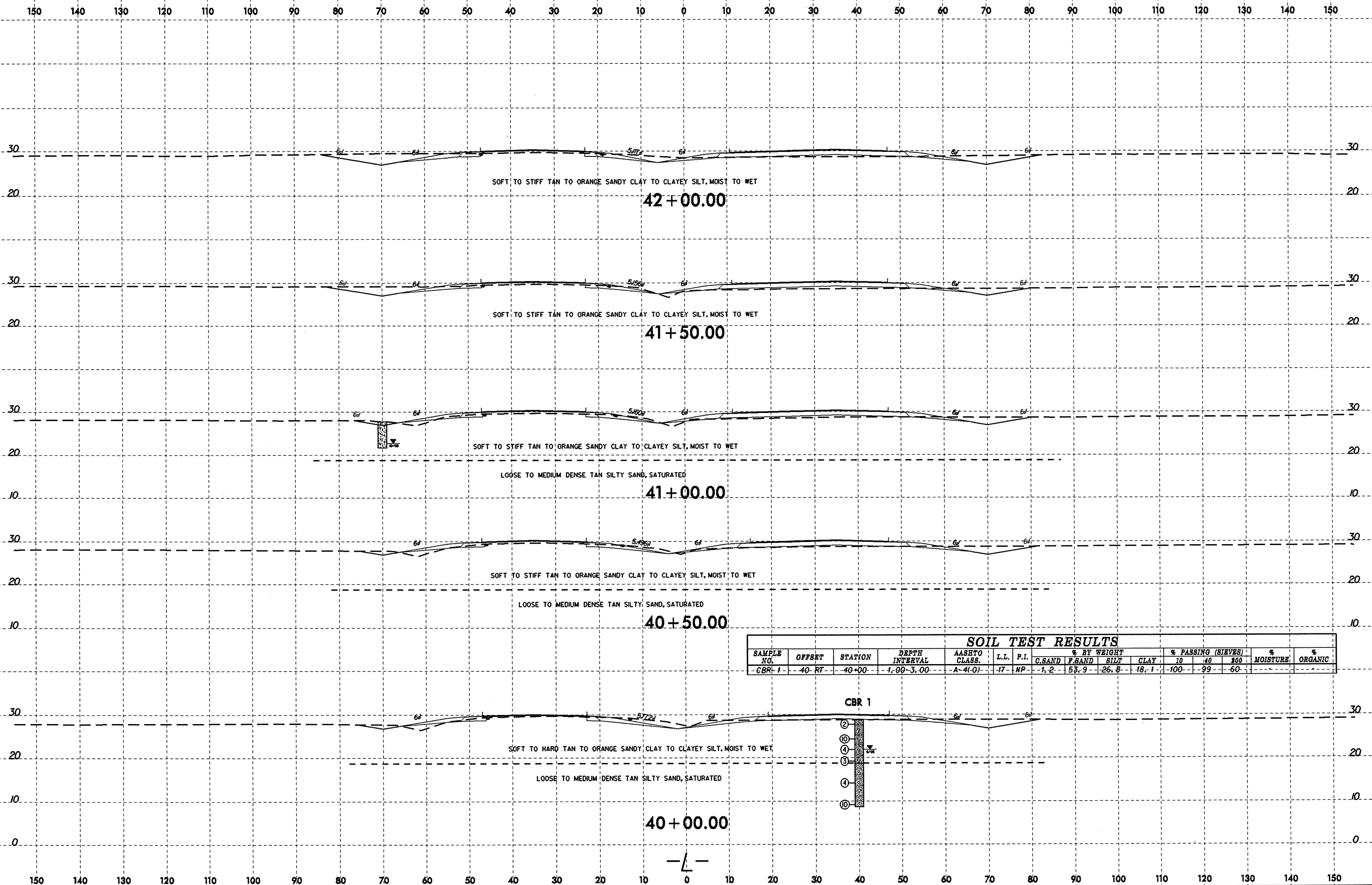


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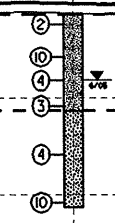


PROJ. REFERENCE NO. R-2510C SHEET NO. 32



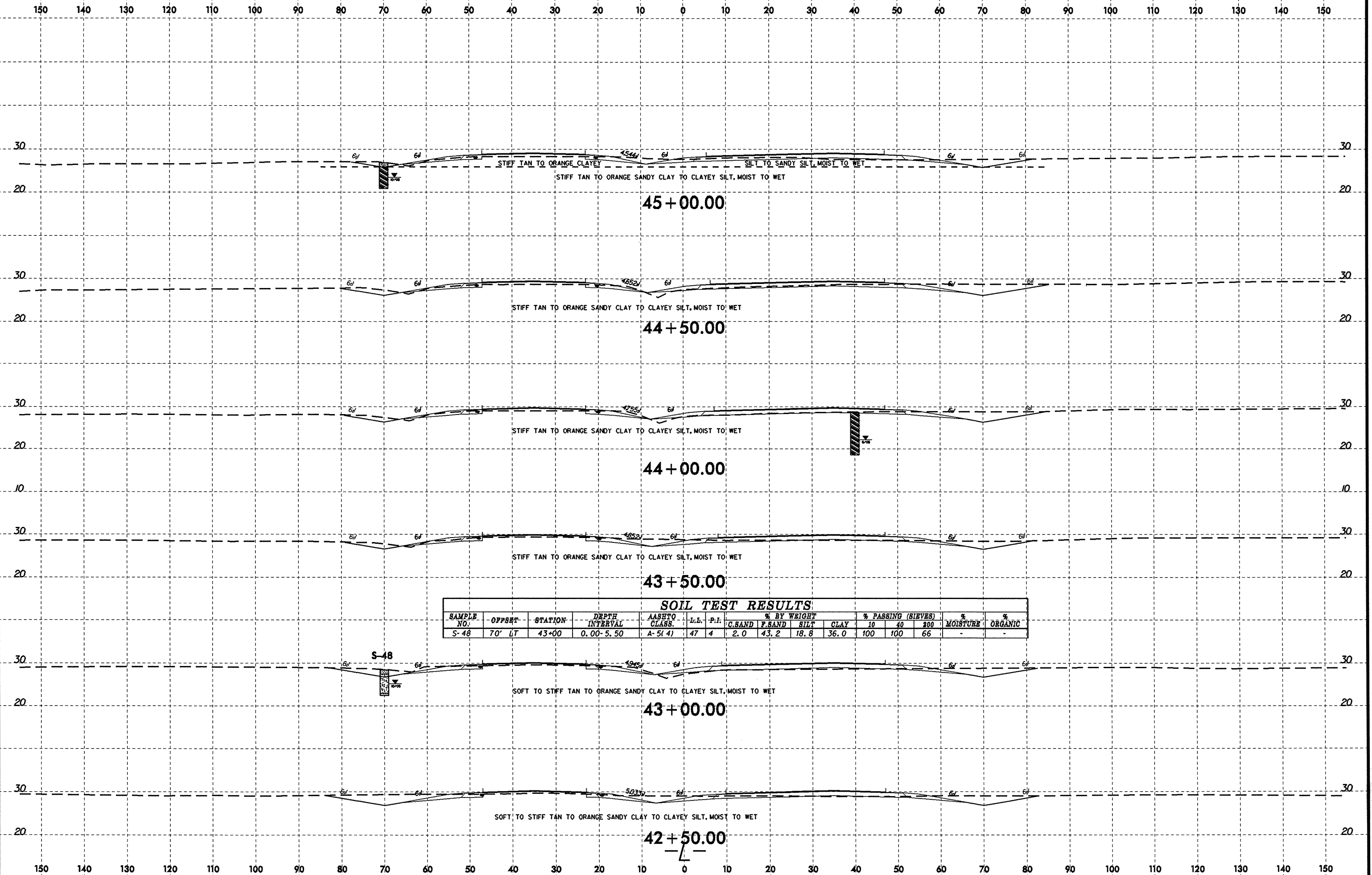
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| CBR-1 | -40-RT | 40+00 | 1.00-3.00 | A-4(0) | 17 | NP | 1.2 | 53.9 | 26.8 | 18.1 | 100 | 99 | 60 | | |

CBR 1



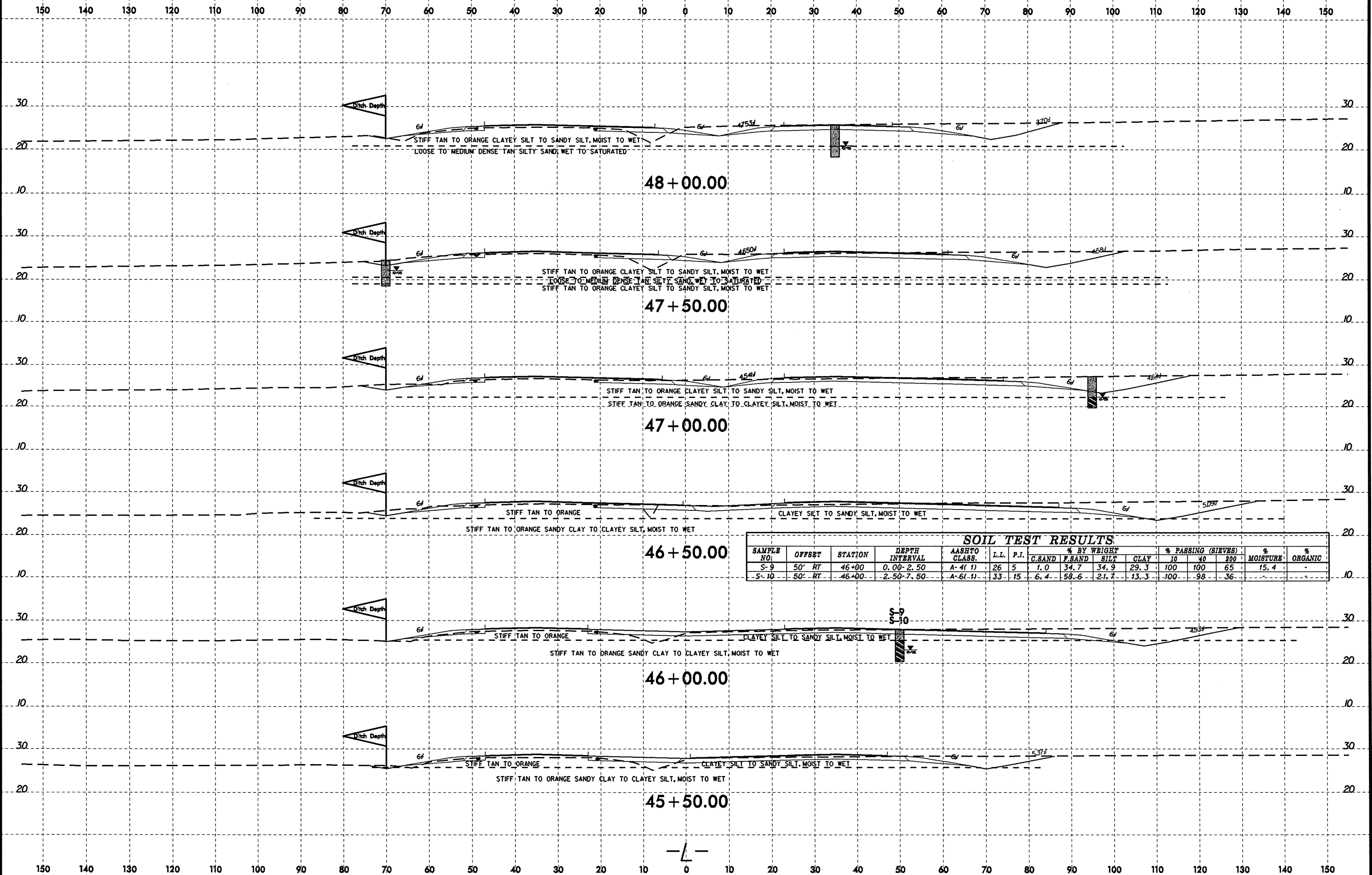
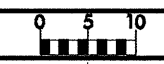
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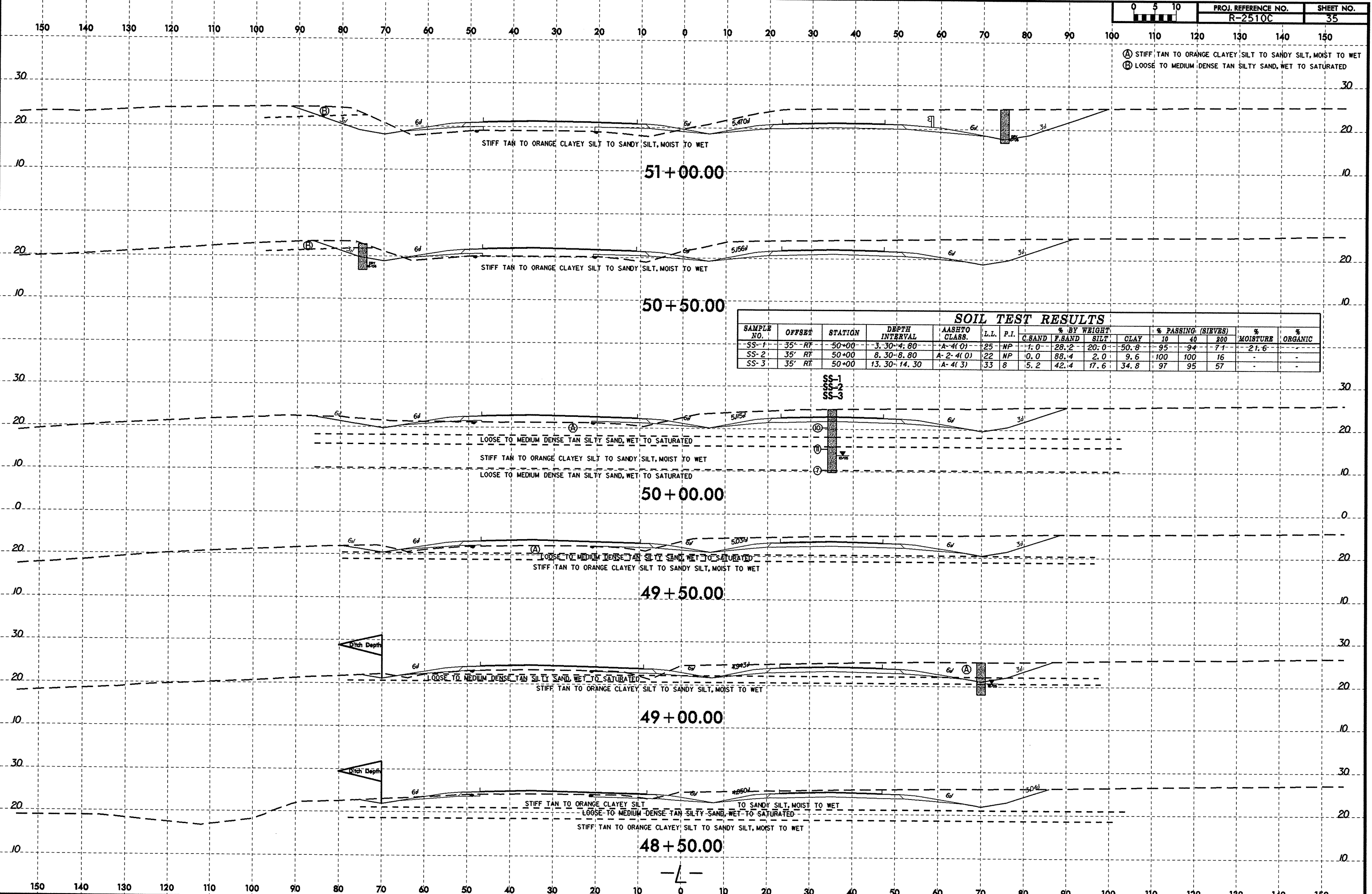
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| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-9 | 50' RT | 46+00 | 0.00-2.50 | A-4(1) | 26 | 5 | 1.0 | 34.7 | 34.9 | 29.3 | 100 | 100 | 65 | 15.4 | - |
| S-10 | 50' RT | 46+00 | 2.50-7.50 | A-6(-1) | 33 | 15 | 6.4 | 58.6 | 21.7 | 13.3 | 100 | 98 | 36 | - | - |

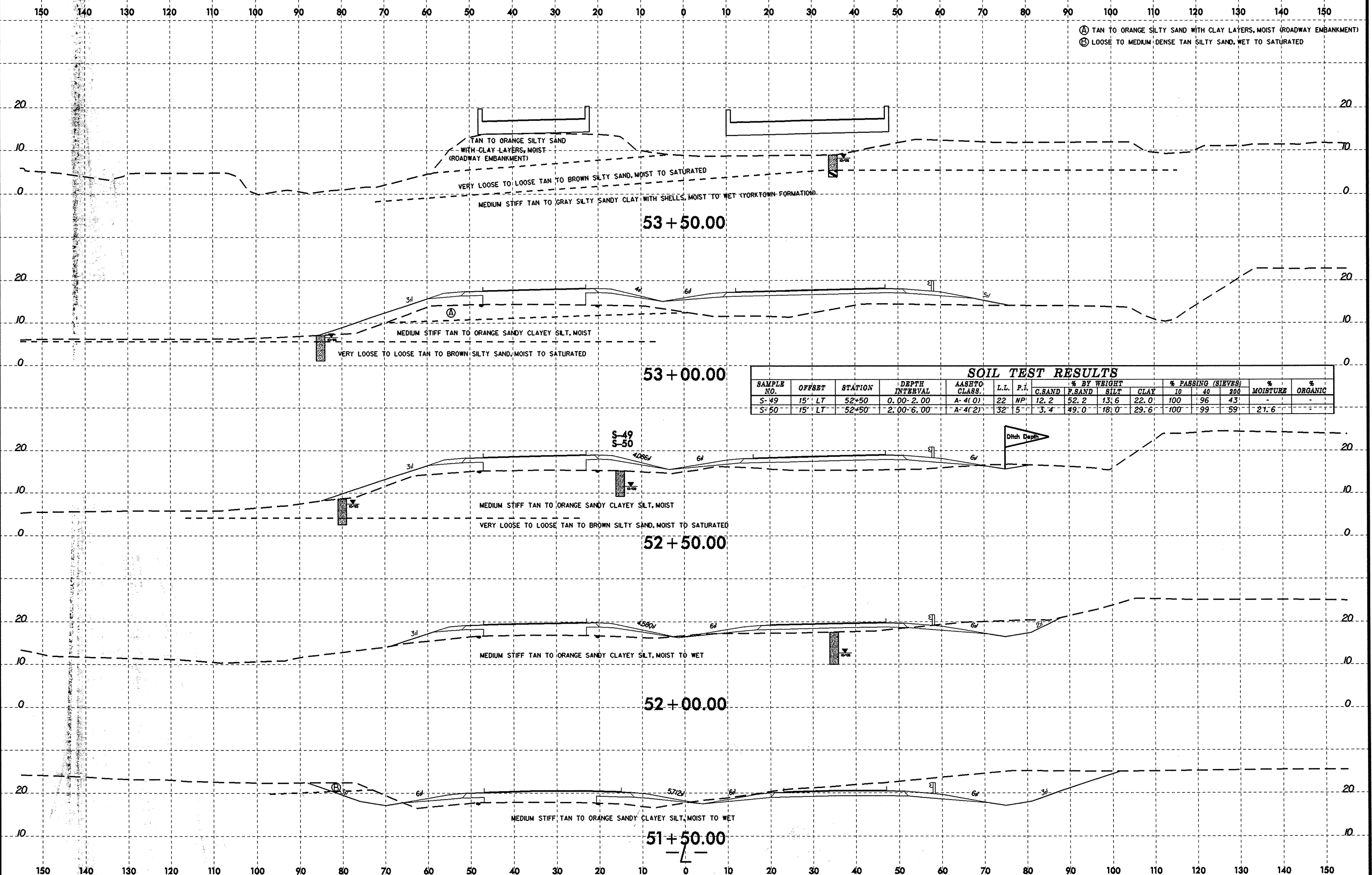
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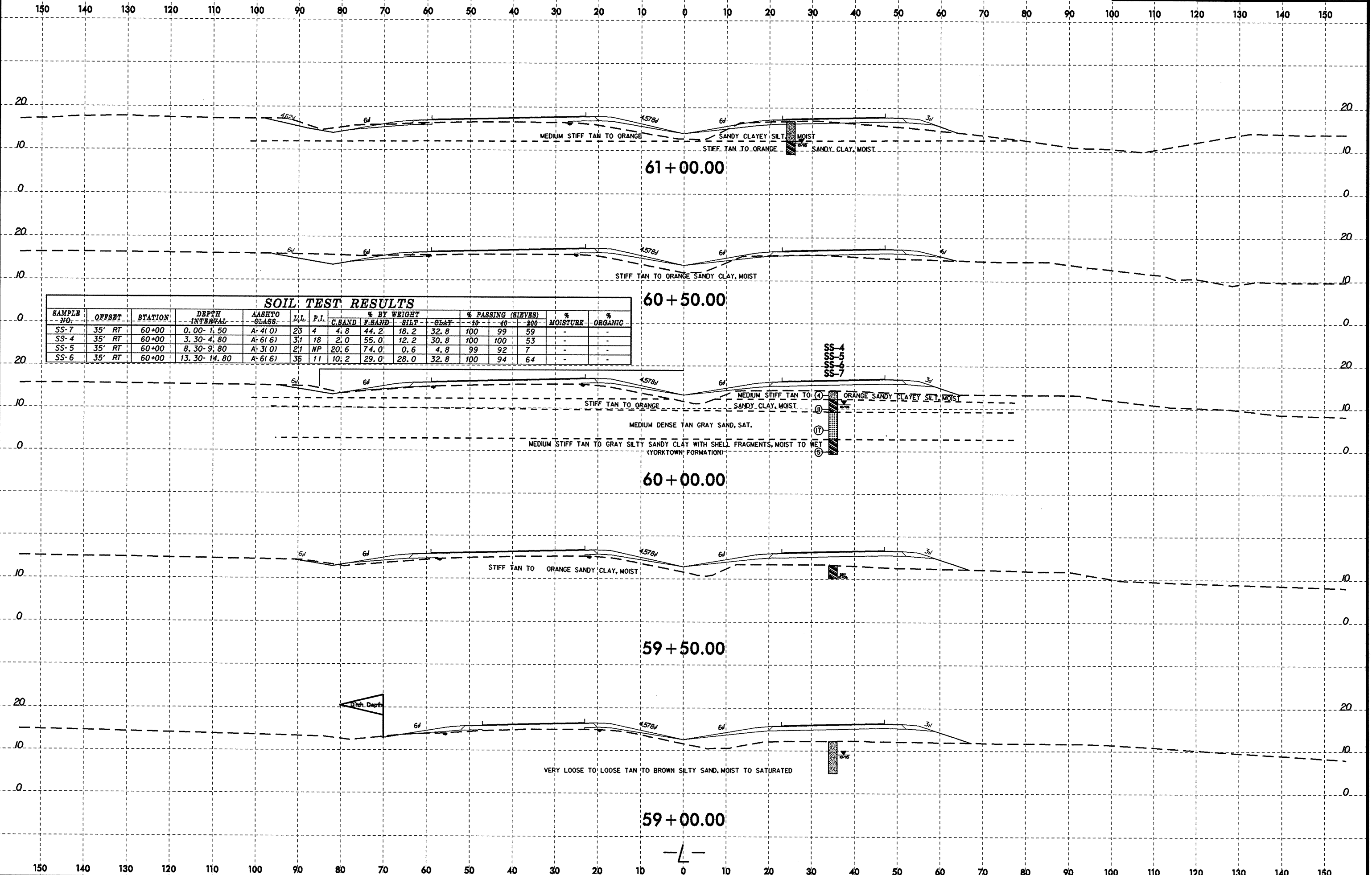
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| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.L. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-49 | 15' LT | 52+50 | 0.00-2.00 | A-4(1) | 22 | NP | 12.2 | 52.2 | 13.6 | 22.0 | 100 | 96 | 43 | - | - |
| S-50 | 15' LT | 52+50 | 2.00-6.00 | A-4(2) | 32 | 5 | 3.4 | 49.0 | 18.0 | 29.6 | 100 | 99 | 59 | 21.6 | - |

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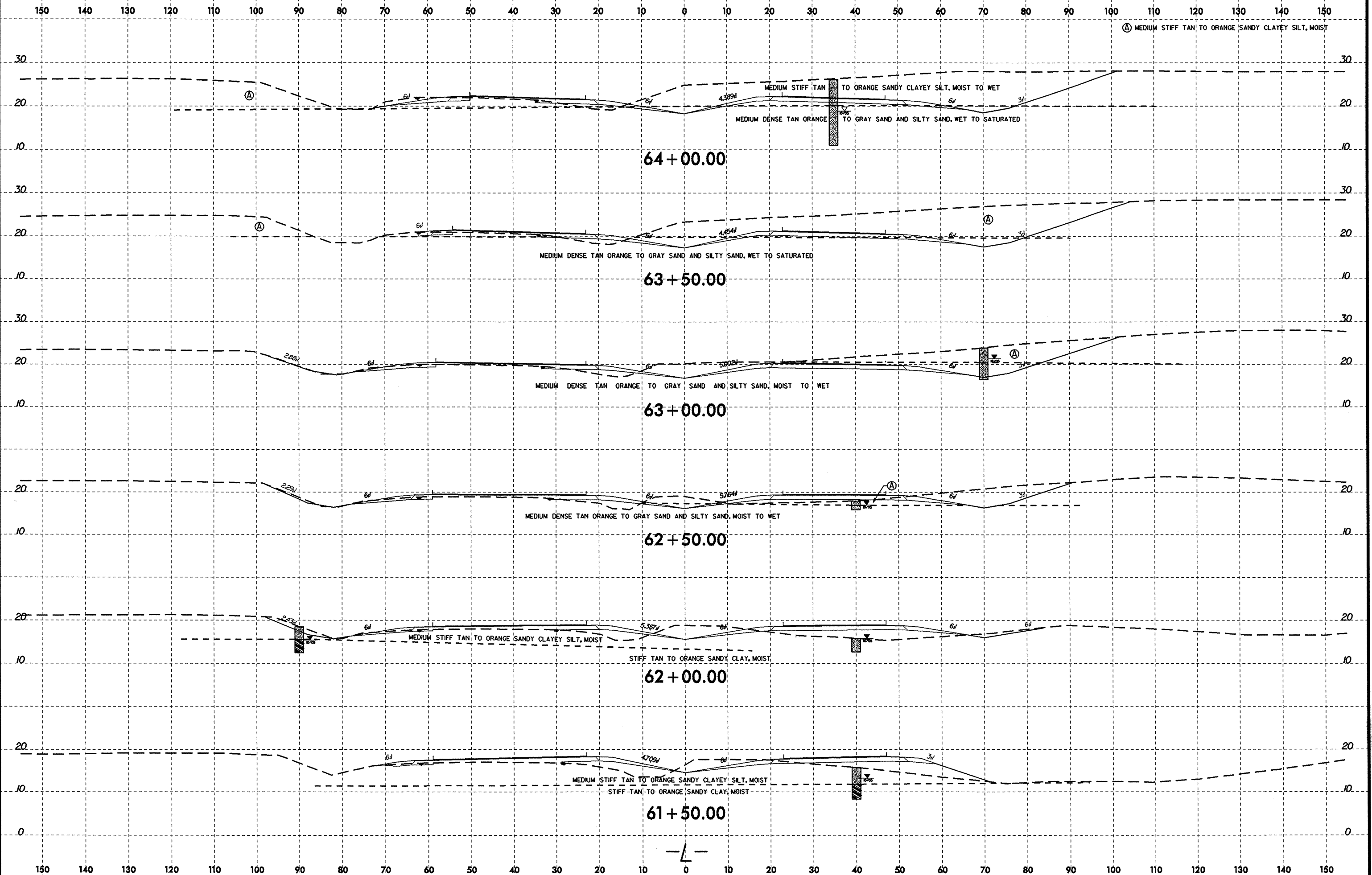


SOIL TEST RESULTS

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|---------|------|------|--------------------|-----|------|------------|-----------|
| | | | | | | | C. SAND | F. SAND | SILT | CLAY | -10 | -40 | -200 | | |
| SS-7 | 35' RT | 60+00 | 0.00-1.50 | A-4(0) | 23 | 4 | 4.8 | 44.2 | 18.2 | 32.8 | 100 | 99 | 59 | - | - |
| SS-4 | 35' RT | 60+00 | 3.30-4.80 | A-6(6) | 31 | 18 | 2.0 | 55.0 | 12.2 | 30.8 | 100 | 100 | 53 | - | - |
| SS-5 | 35' RT | 60+00 | 8.30-9.80 | A-3(0) | 21 | NP | 20.6 | 74.0 | 0.6 | 4.8 | 99 | 92 | 7 | - | - |
| SS-6 | 35' RT | 60+00 | 13.30-14.80 | A-6(6) | 35 | 11 | 10.2 | 29.0 | 28.0 | 32.8 | 100 | 94 | 64 | - | - |

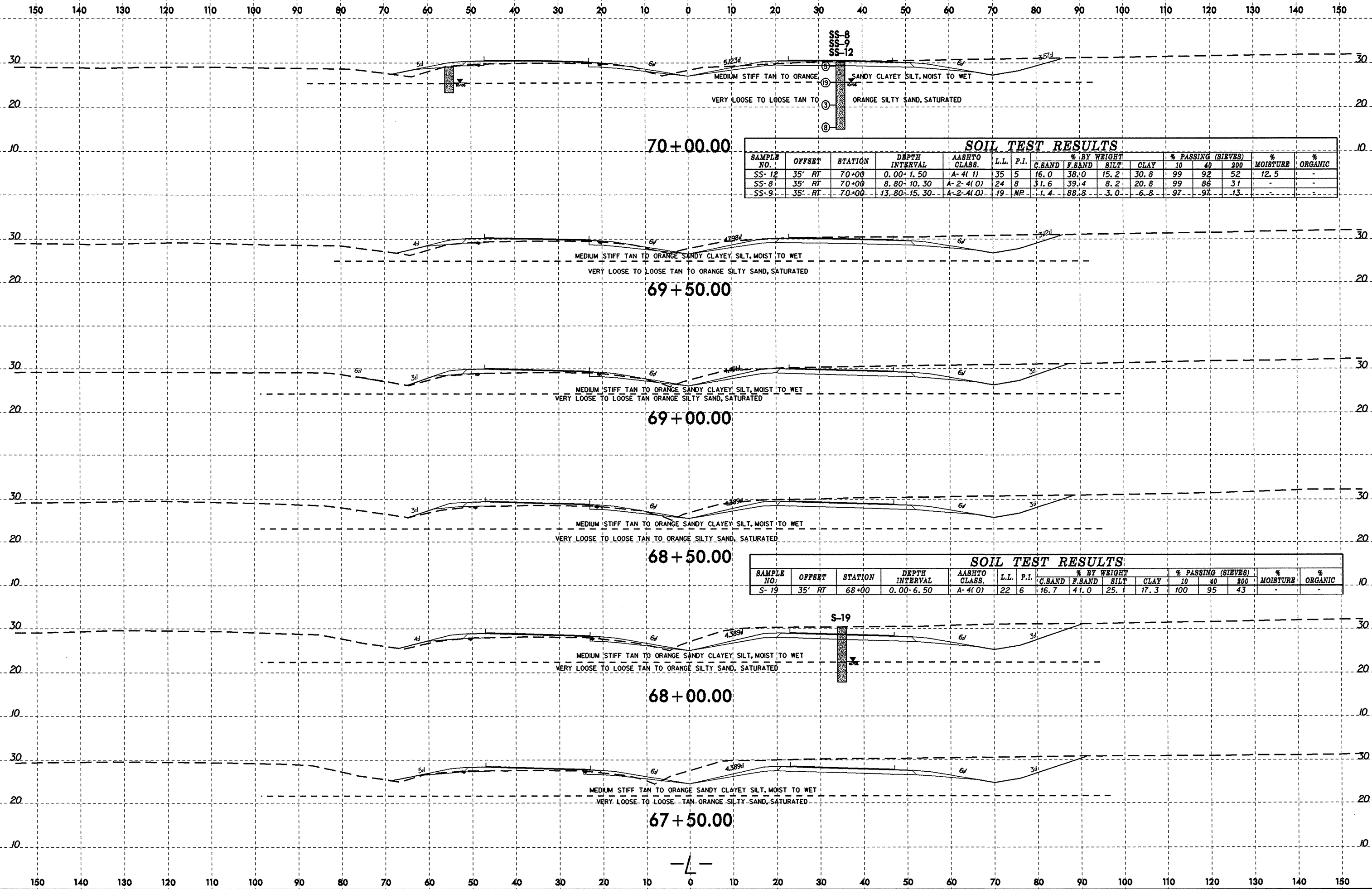
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SOIL TEST RESULTS

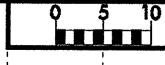
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-12 | 35' RT | 70+00 | 0.00-1.50 | A-4(1) | 35 | 5 | 16.0 | 38.0 | 15.2 | 30.8 | 99 | 92 | 52 | 12.5 | - |
| SS-8 | 35' RT | 70+00 | 8.80-10.30 | A-2-A(0) | 24 | 8 | 31.6 | 39.4 | 8.2 | 20.8 | 99 | 86 | 31 | - | - |
| SS-9 | 35' RT | 70+00 | 13.80-15.30 | A-2-A(0) | 19 | NP | 1.4 | 88.8 | 3.0 | 6.8 | 97 | 97 | 13 | - | - |

SOIL TEST RESULTS

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-19 | 35' RT | 68+00 | 0.00-6.50 | A-4(0) | 22 | 6 | 16.7 | 41.0 | 25.1 | 17.3 | 100 | 95 | 43 | - | - |

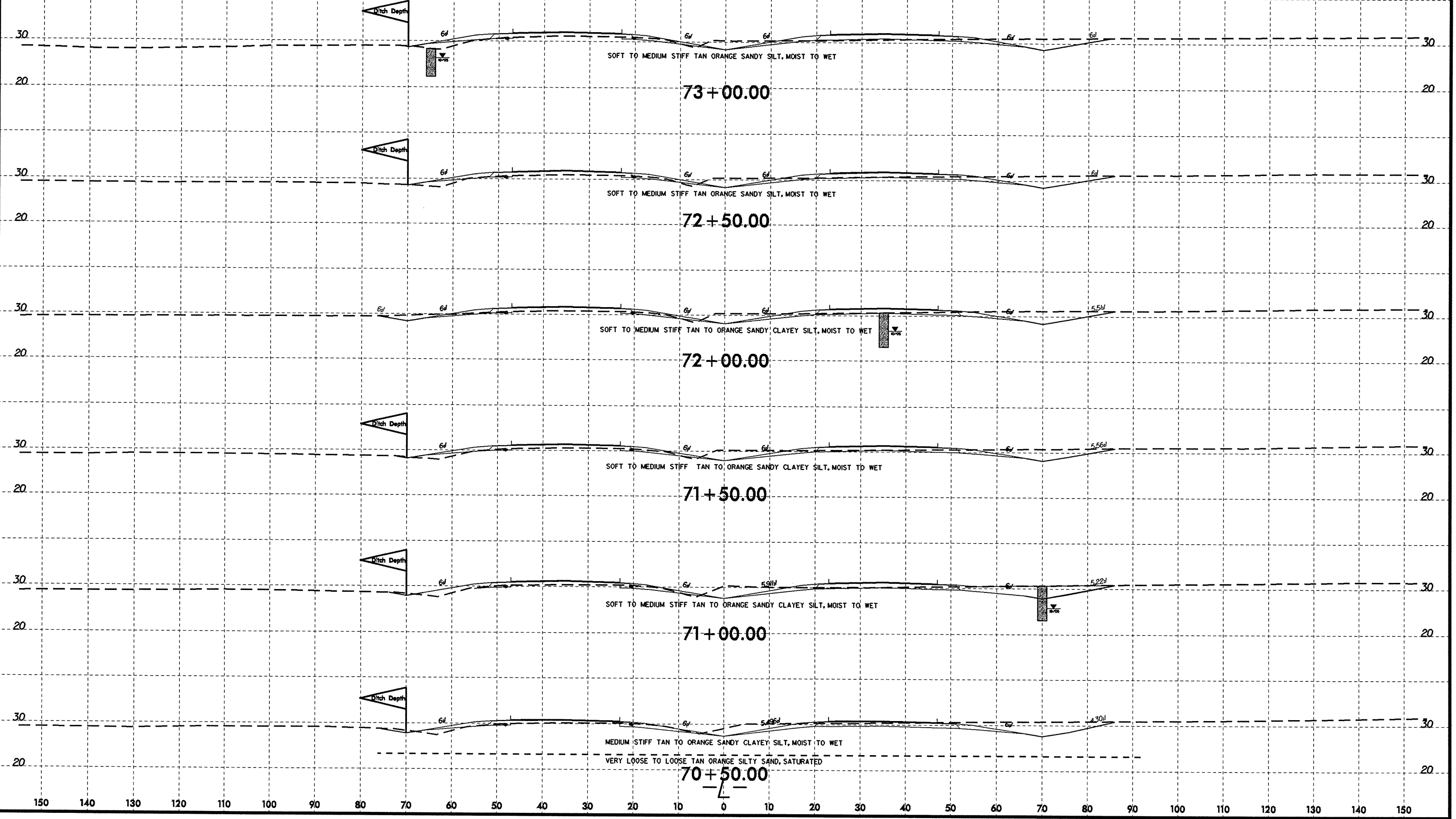
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| | |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| R-2510C | 41 |

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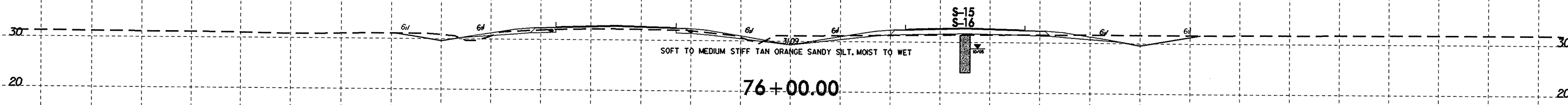


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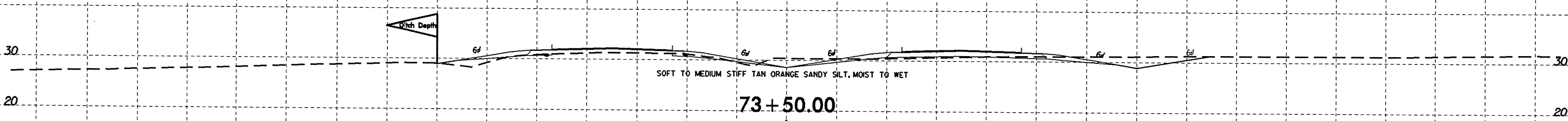
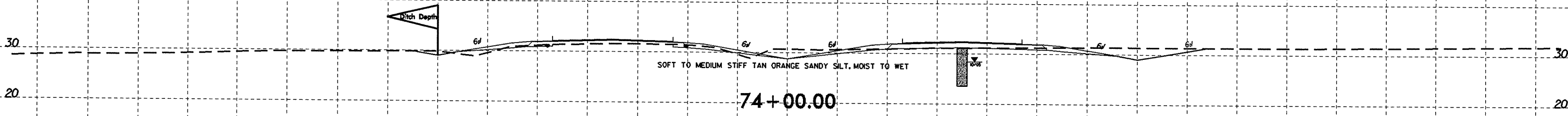
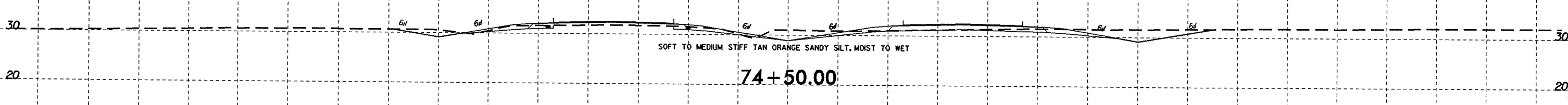
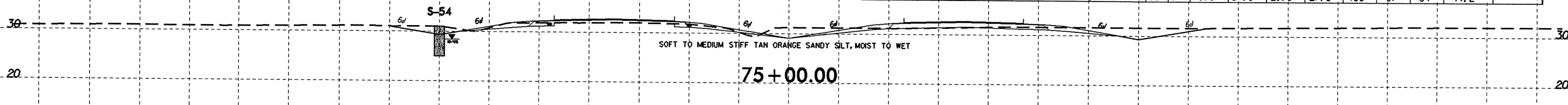
8/23/99

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

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-15 | 35' RT | 76+00 | 0.00-6.00 | A-4(0) | 26 | 3 | 4.8 | 44.4 | 21.5 | 29.3 | 100 | 99 | 51 | - | - |
| S-16 | 35' RT | 76+00 | 6.00-7.50 | A-4(0) | 26 | 5 | 7.6 | 40.4 | 26.7 | 25.3 | 100 | 97 | 53 | - | - |



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-54 | 70' LT | 75+00 | 0.00-6.00 | A-4(4) | 33 | 8 | 8.8 | 34.6 | 29.0 | 27.6 | 100 | 97 | 64 | 14.2 | - |



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

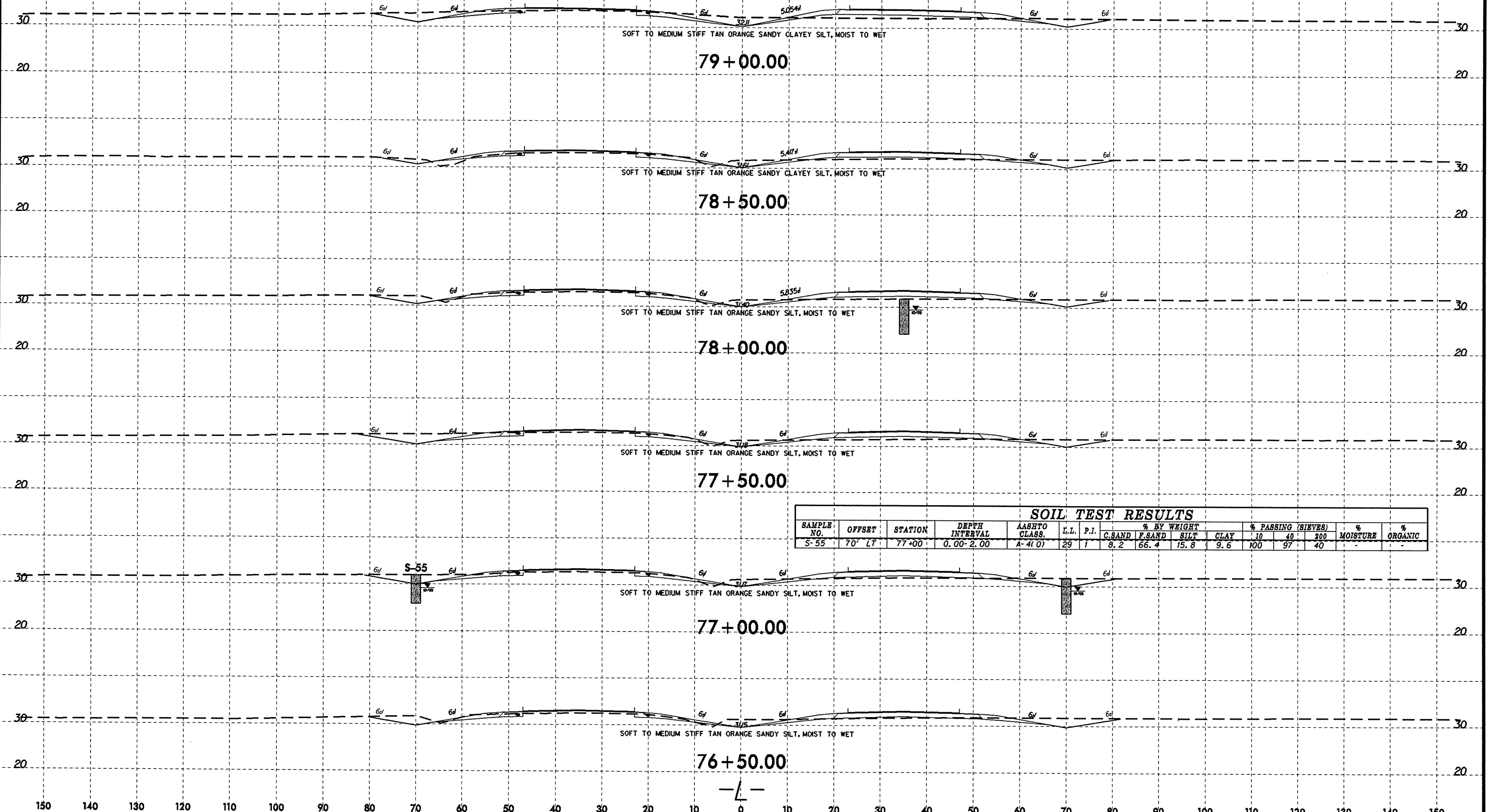
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8/23/99



| | |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| R-2510C | 43 |

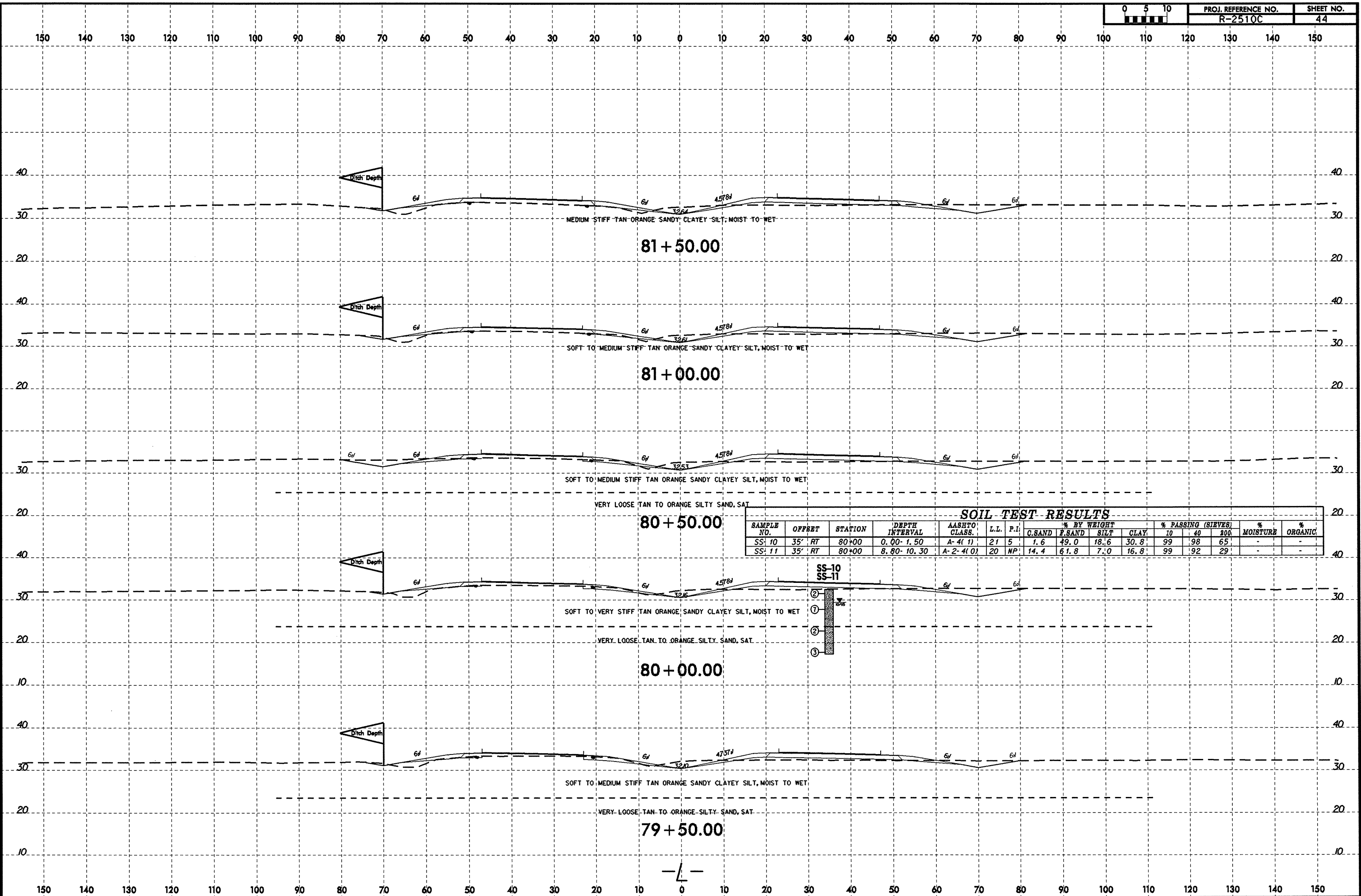
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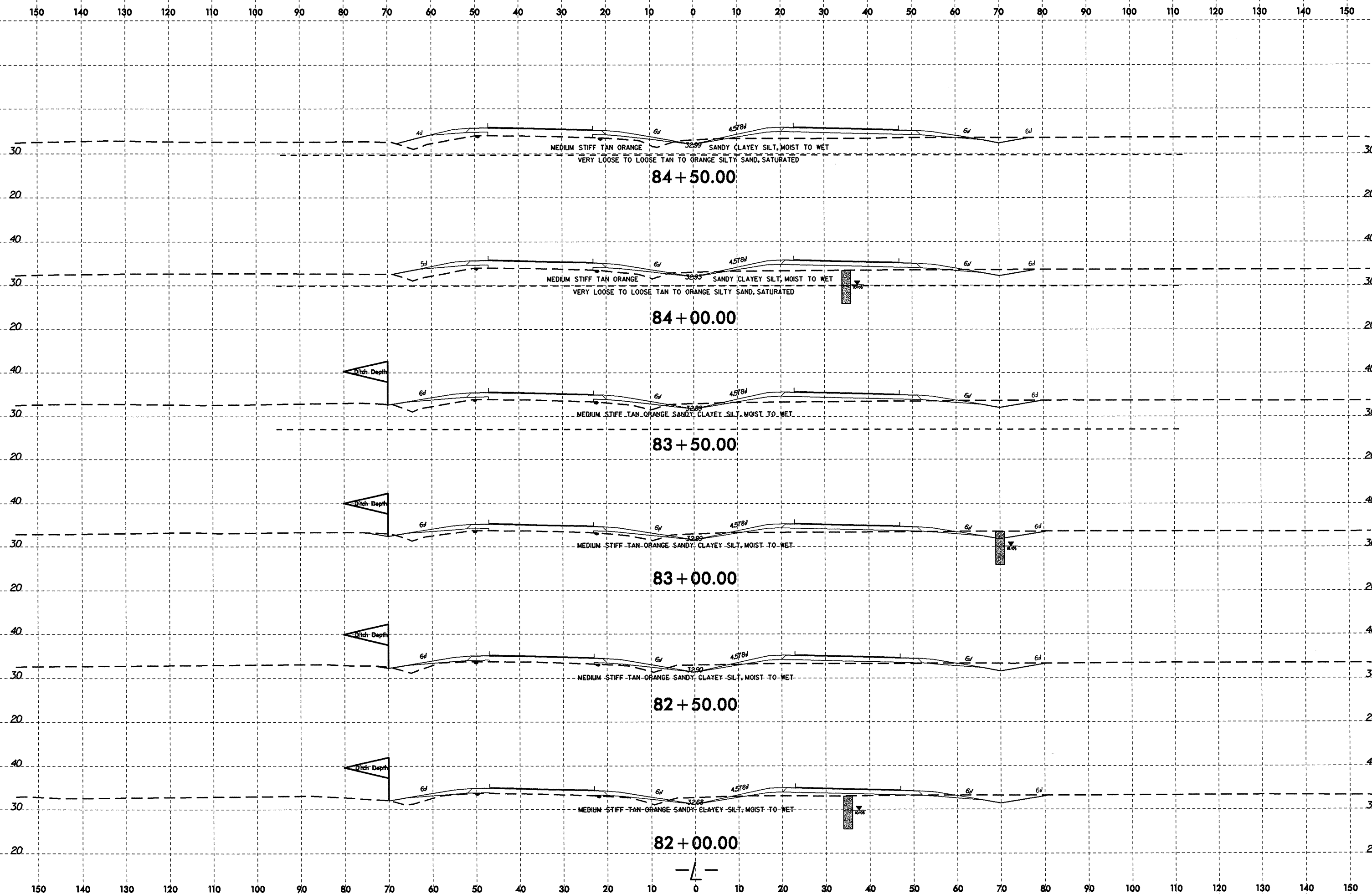
| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-55 | 70' LT | 77+00 | 0.00-2.00 | A-4(0) | 29 | 1 | 8.2 | 66.4 | 15.8 | 9.6 | 100 | 97 | 40 | - | - |

2:11:04 2006 08:53
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 J.L. Stone

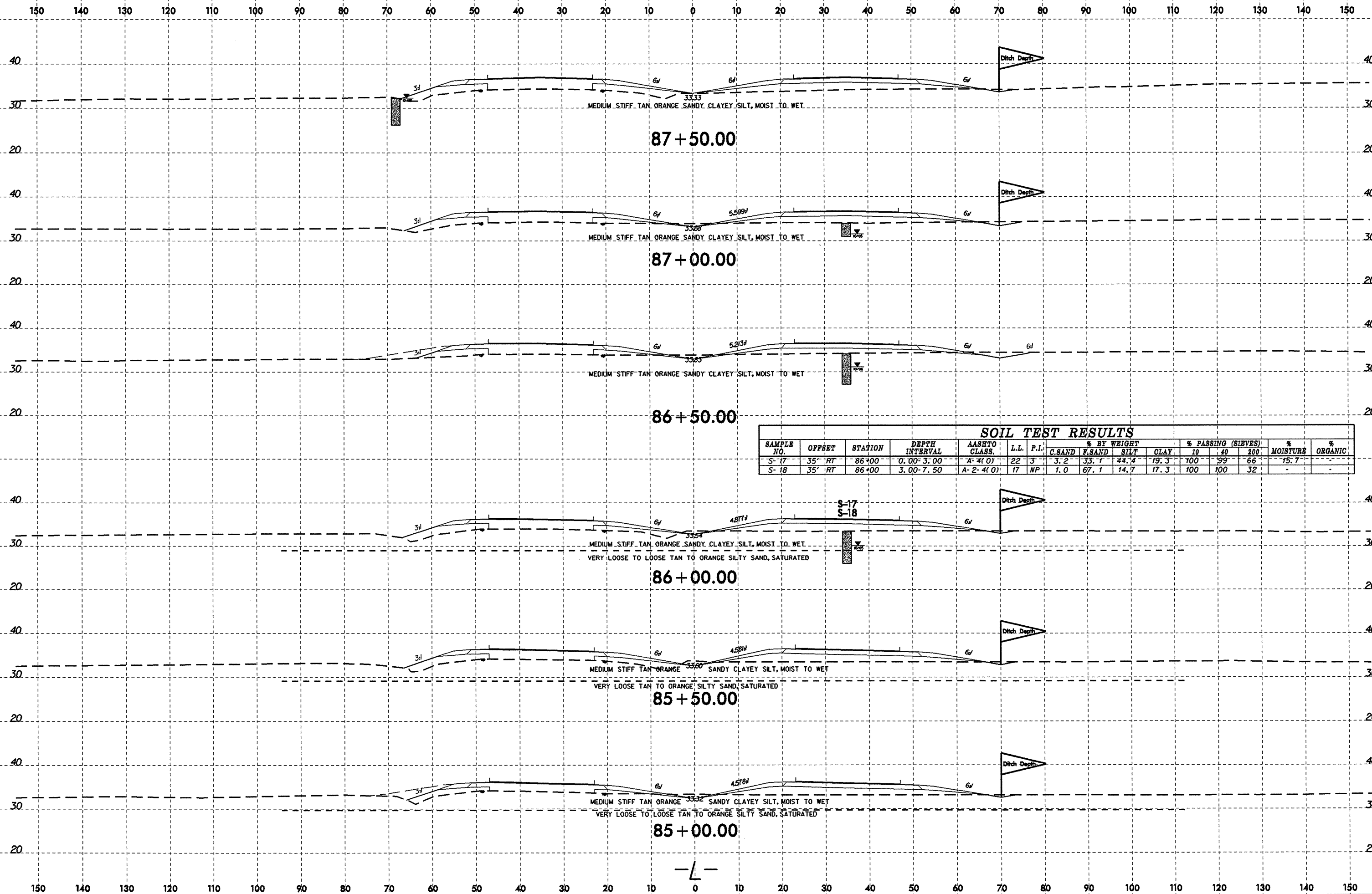
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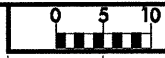
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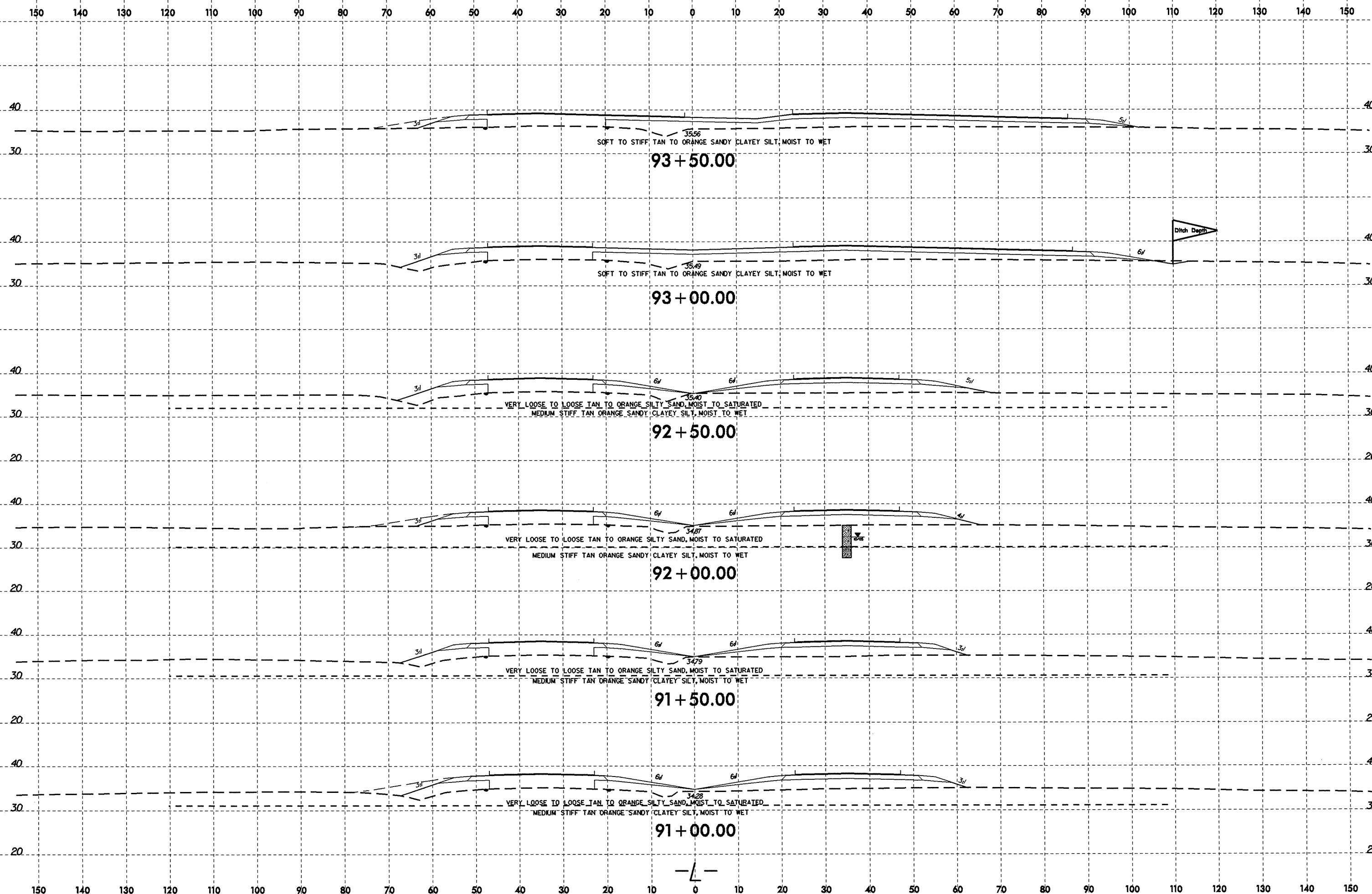
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PROJ. REFERENCE NO. R-2510C SHEET NO. 47



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93+00.00

92+50.00

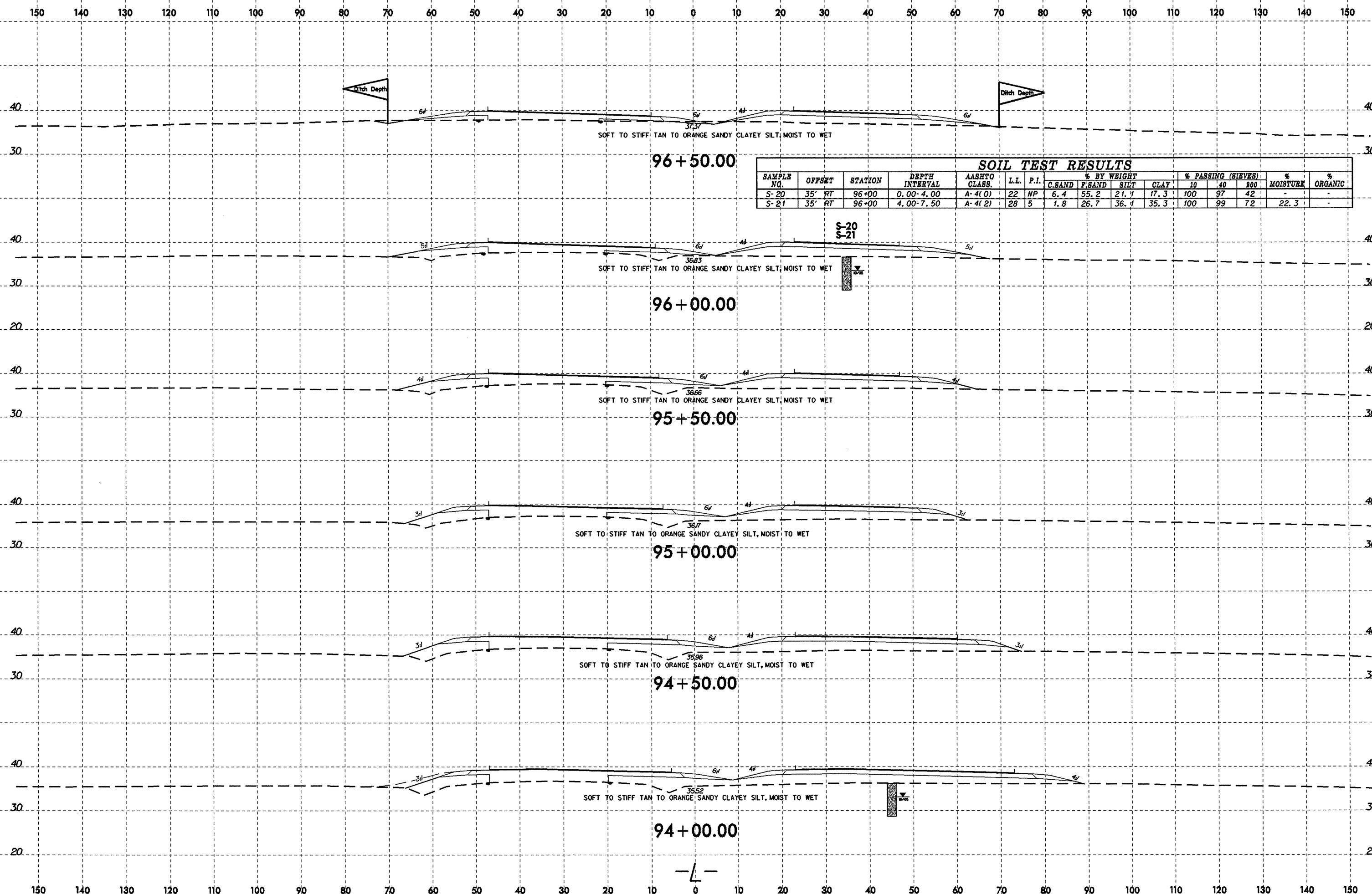
92+00.00

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91+00.00

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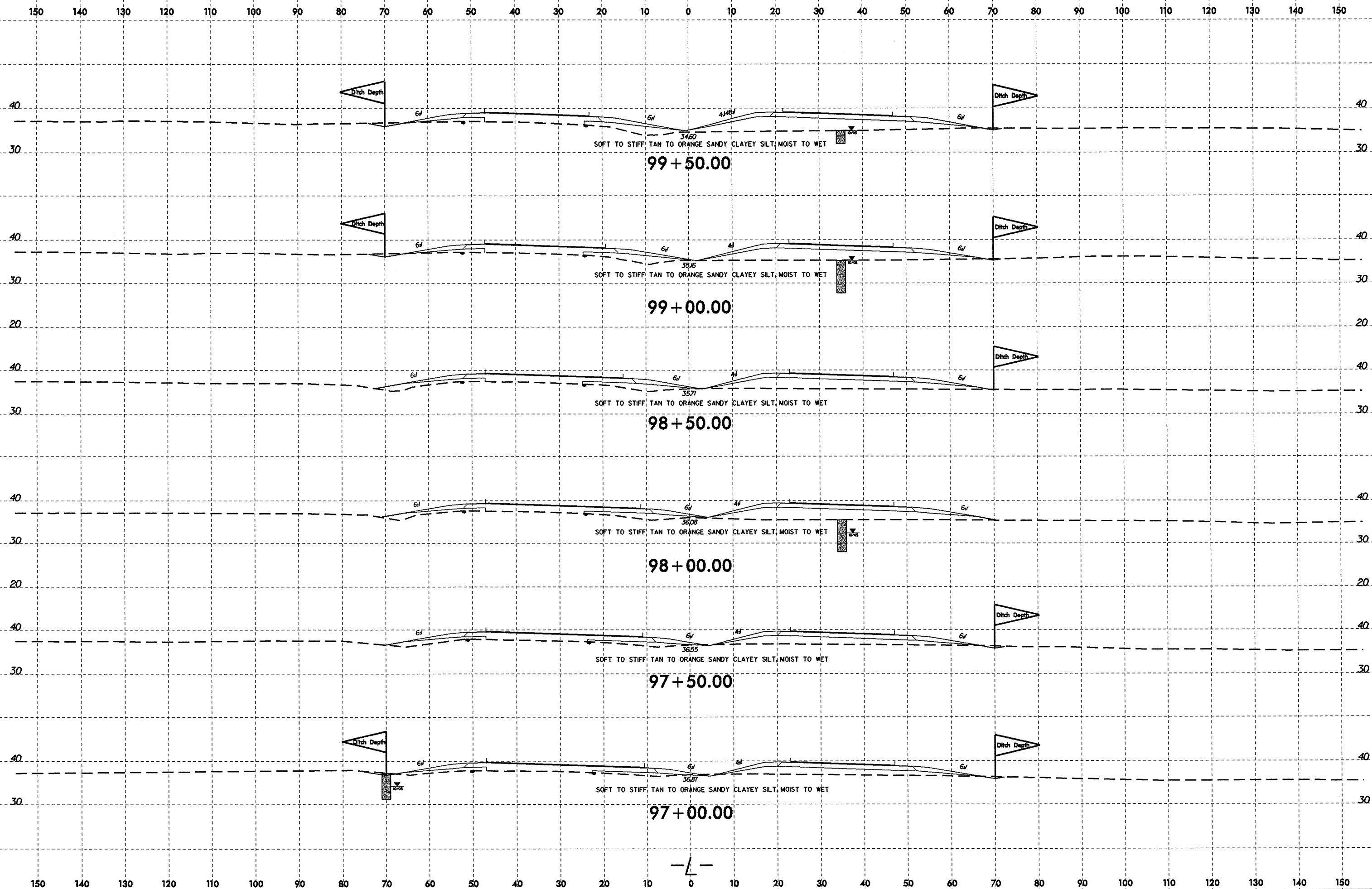
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| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | | | | % PASSING (SIEVES) | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|-----|----|-----|--------------------|---|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | | | | | | | |
| | | | | | | | | | | | 10 | 40 | 100 | | | | |
| S-20 | 35' RT | 96+00 | 0.00-4.00 | A-4(0) | 22 | NP | 6.4 | 55.2 | 21.7 | 17.3 | 100 | 97 | 42 | - | - | | |
| S-21 | 35' RT | 96+00 | 4.00-7.50 | A-4(2) | 28 | 5 | 1.8 | 26.7 | 36.1 | 35.3 | 100 | 99 | 72 | 22.3 | - | | |

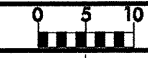
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8/23/99
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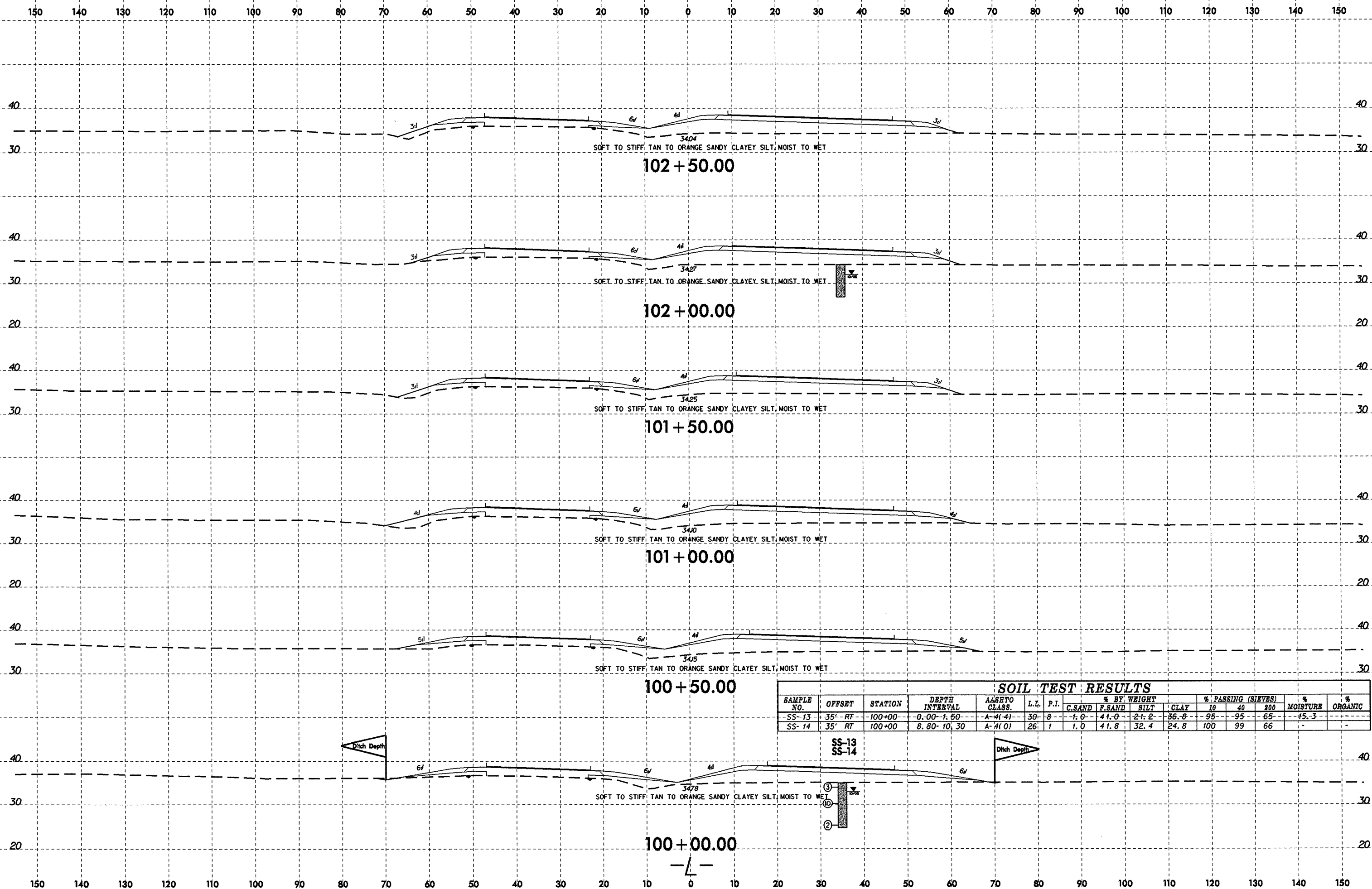


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8/23/99



PROJ. REFERENCE NO. R-2510C SHEET NO. 50

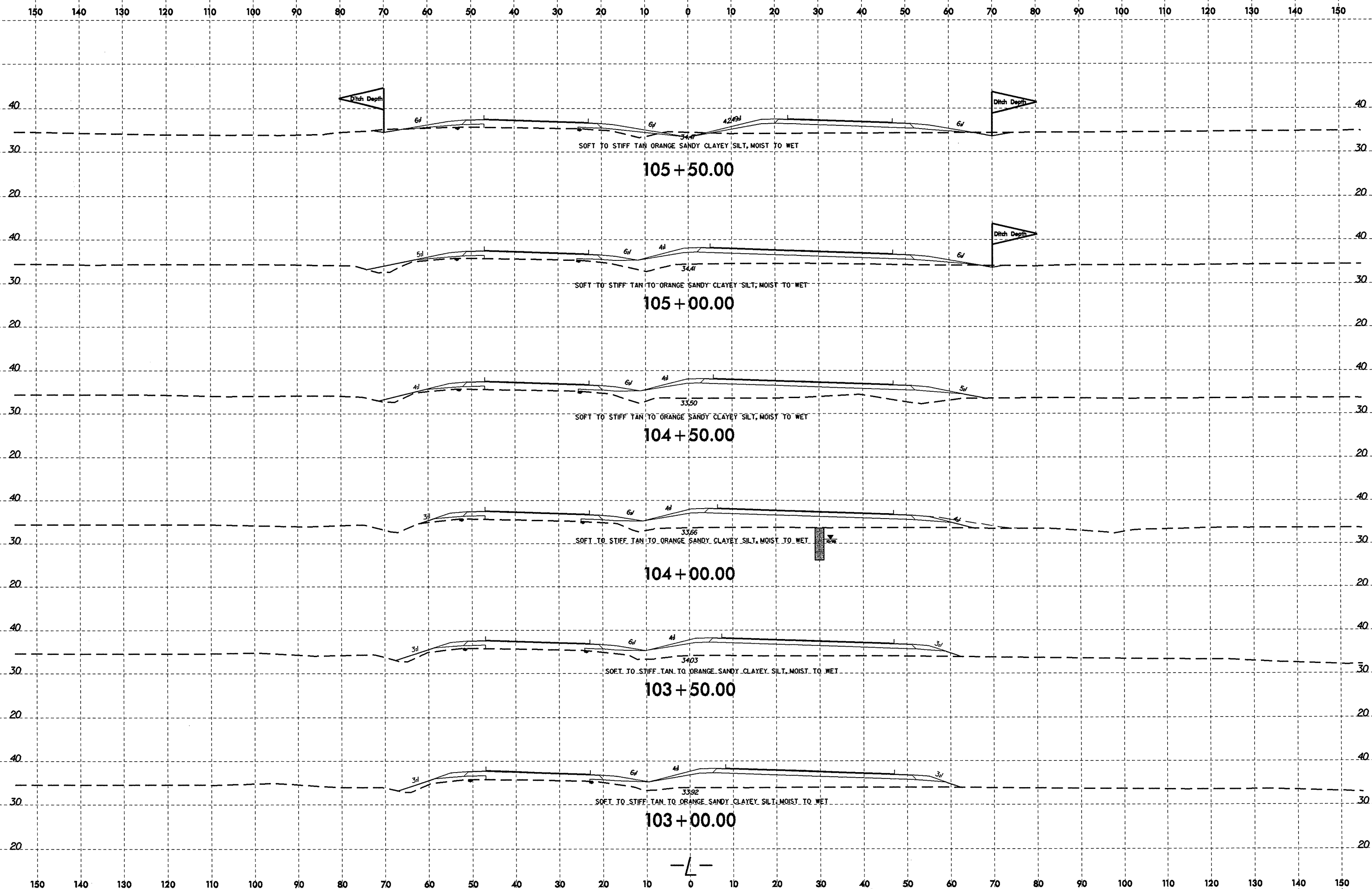


SOIL TEST RESULTS

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 20 | 40 | 100 | | |
| SS-13 | 35' RT | 100+00 | 0.00-1.50 | A-4(4) | 30 | 8 | 1.0 | 41.0 | 21.2 | 36.8 | 95 | 95 | 65 | 15.3 | - |
| SS-14 | 35' RT | 100+00 | 8.80-10.30 | A-4(0) | 26 | 1 | 1.0 | 41.8 | 32.4 | 24.8 | 100 | 99 | 66 | - | - |

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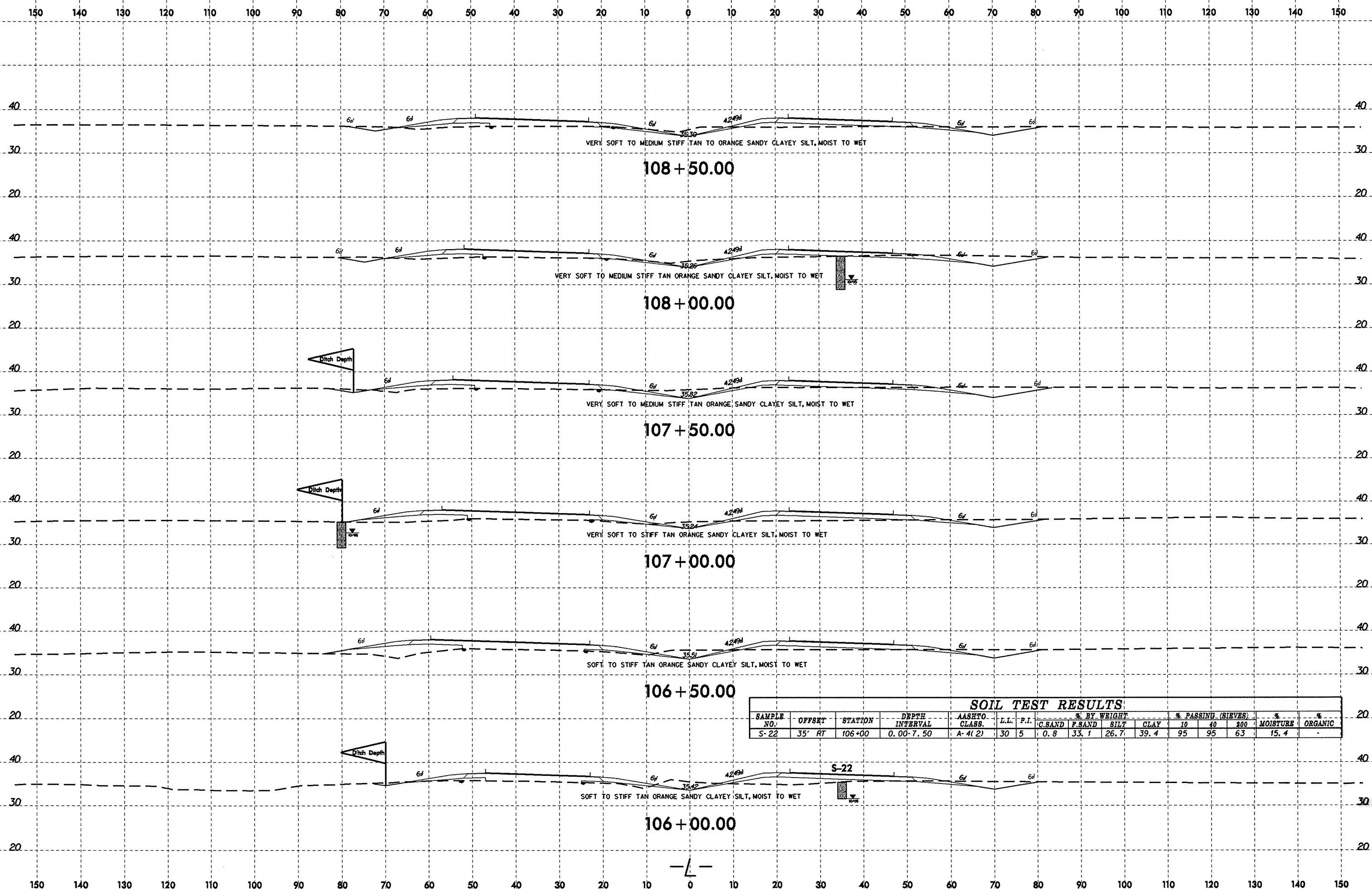
8/23/99



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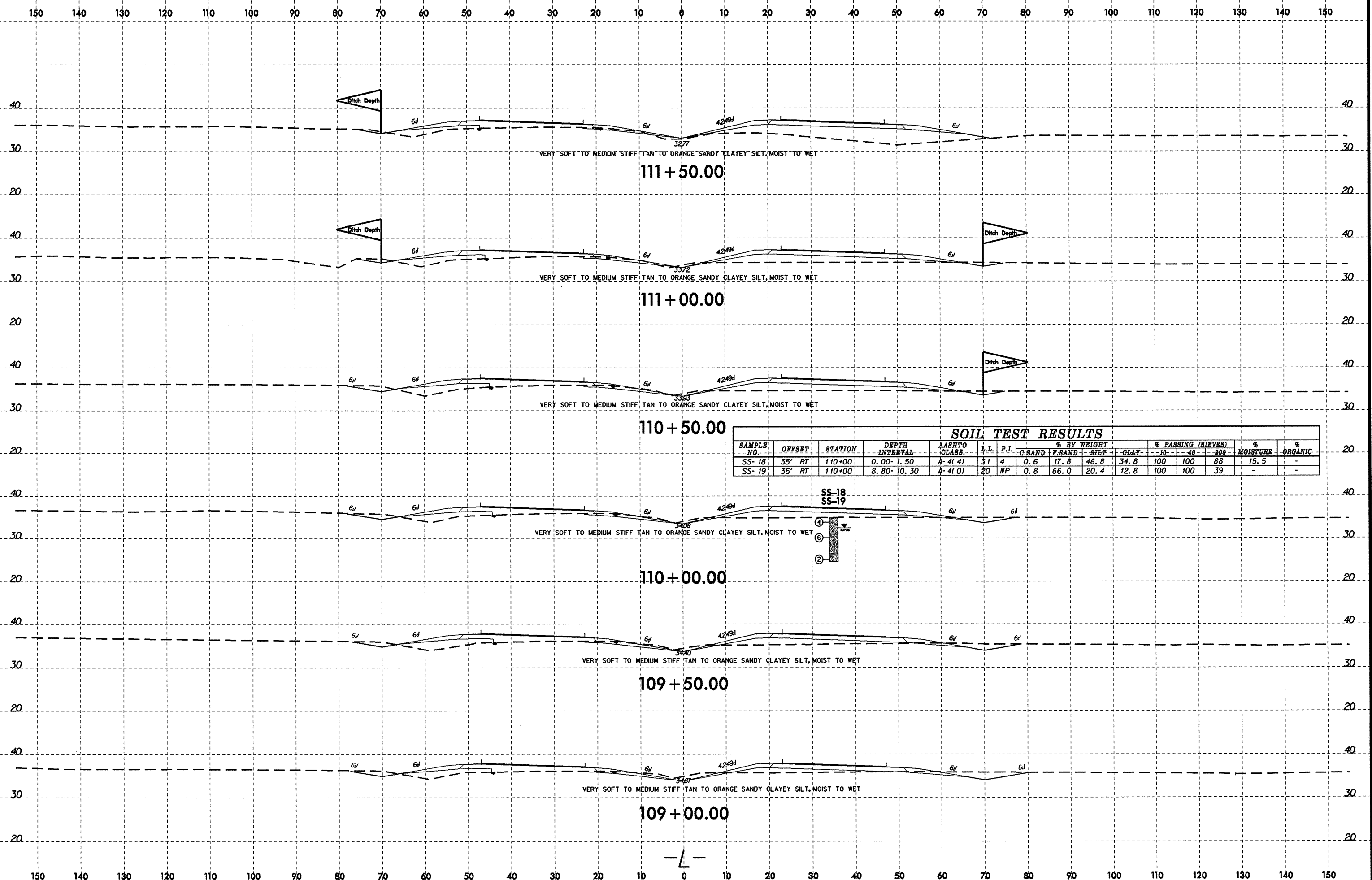
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8/22/99
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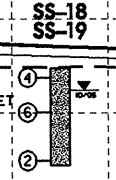


| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-22 | 35' RT | 106+00 | 0.00-7.50 | A-4(2) | 30 | 5 | 0.8 | 33.1 | 26.7 | 39.4 | 95 | 95 | 63 | 15.4 | - |

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 21-NOV-2006 09:01
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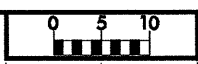


| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|------|------------|-----------|
| | | | | | | | G.SAND | F.SAND | SILT | CLAY | -10 | -40 | -200 | | |
| SS-18 | 35' RT | 110+00 | 0.00-1.50 | A-4(4) | 31 | 4 | 0.6 | 17.8 | 46.8 | 34.8 | 100 | 100 | 88 | 15.5 | - |
| SS-19 | 35' RT | 110+00 | 8.80-10.30 | A-4(0) | 20 | NP | 0.8 | 66.0 | 20.4 | 12.8 | 100 | 100 | 39 | - | - |

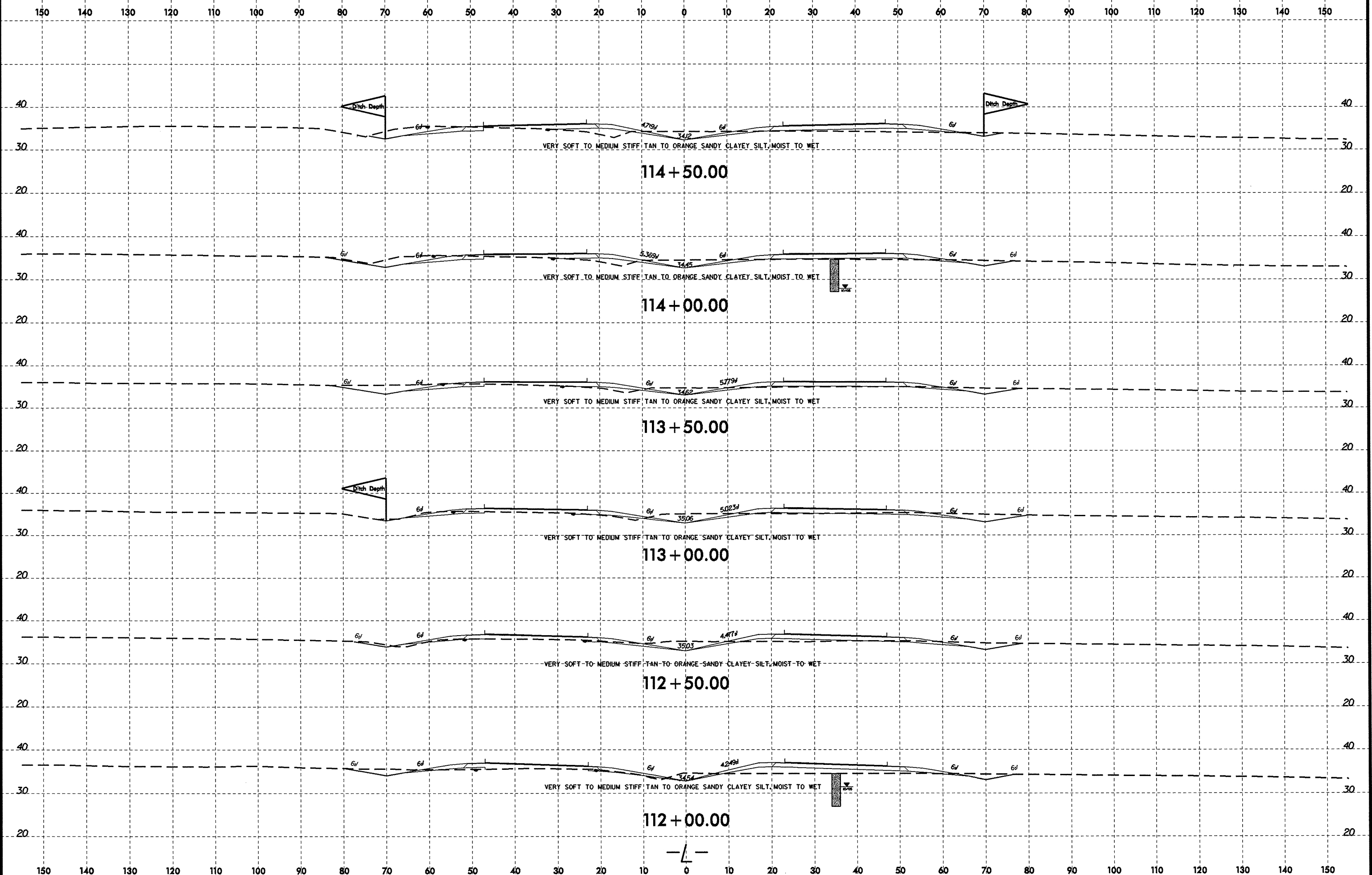


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8/23/99



| | |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| R-2510C | 54 |

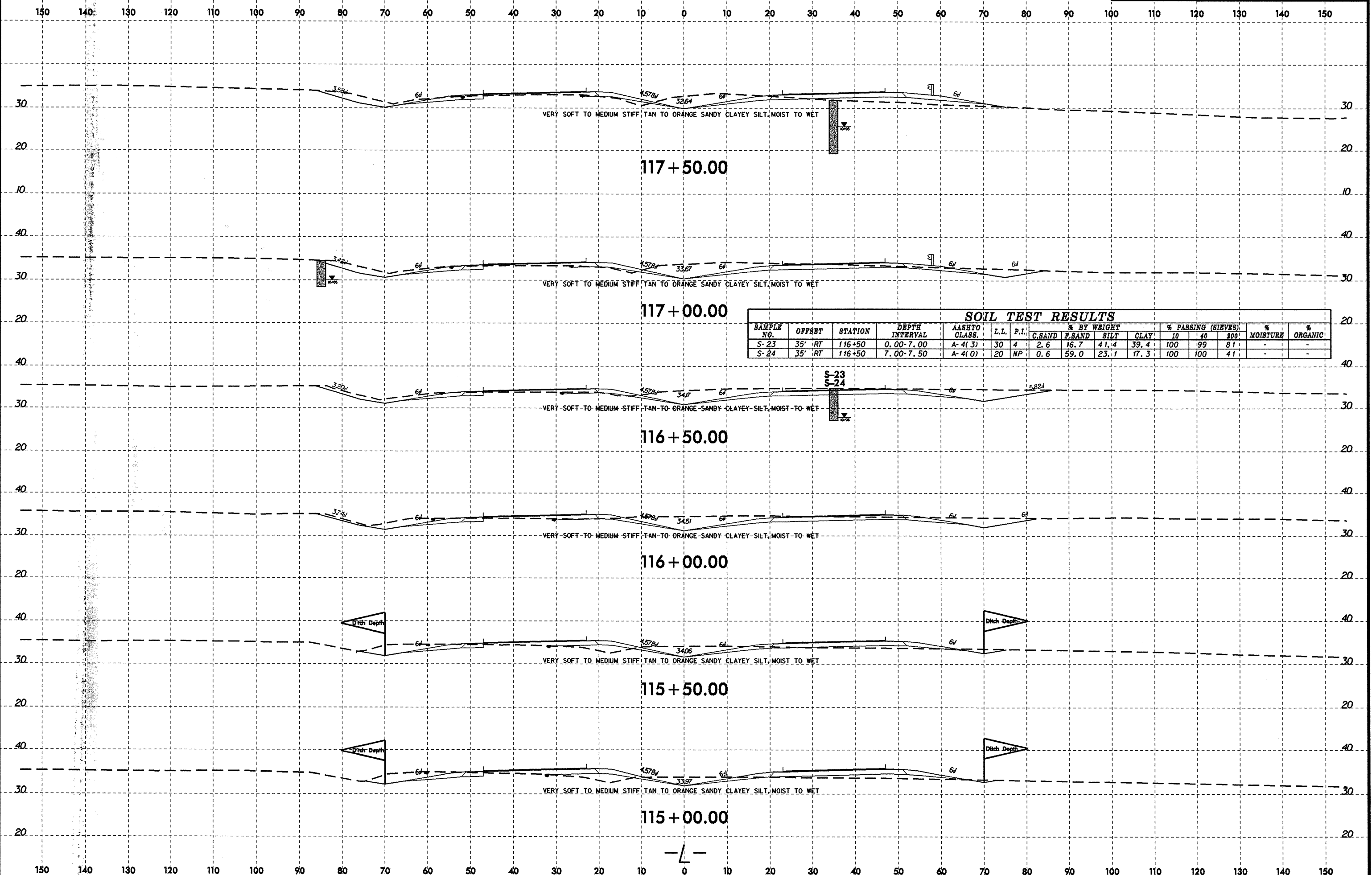


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8/23/99



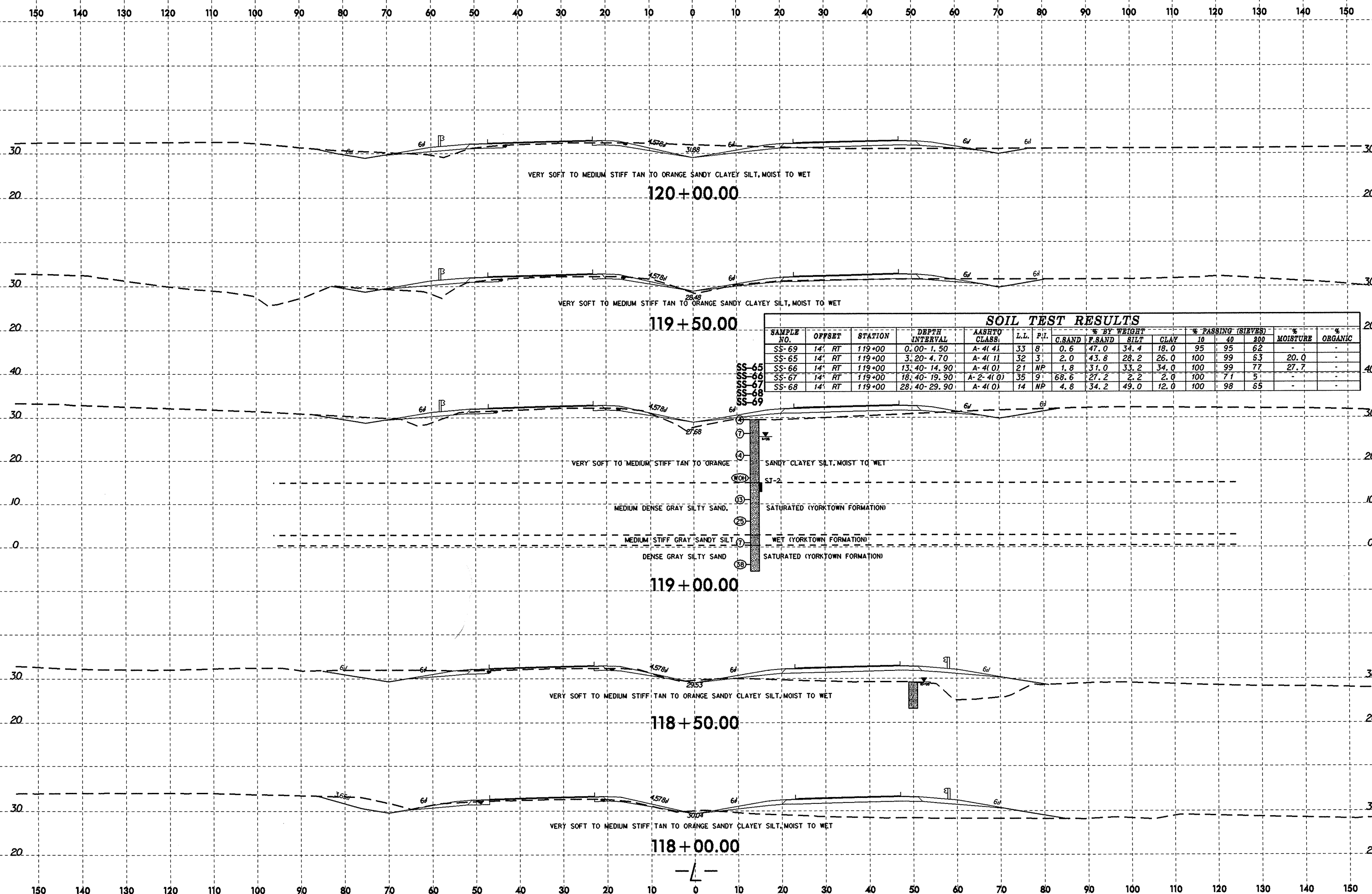
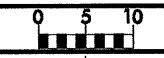
PROJ. REFERENCE NO. R-2510C SHEET NO. 55



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-23 | 35' RT | 116+50 | 0.00-7.00 | A-4(3) | 30 | 4 | 2.6 | 16.7 | 41.4 | 39.4 | 100 | 99 | 81 | - | - |
| S-24 | 35' RT | 116+50 | 7.00-7.50 | A-4(0) | 20 | NP | 0.6 | 59.0 | 23.1 | 17.3 | 100 | 100 | 41 | - | - |

21-NOV-2006 09:02
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8/23/99

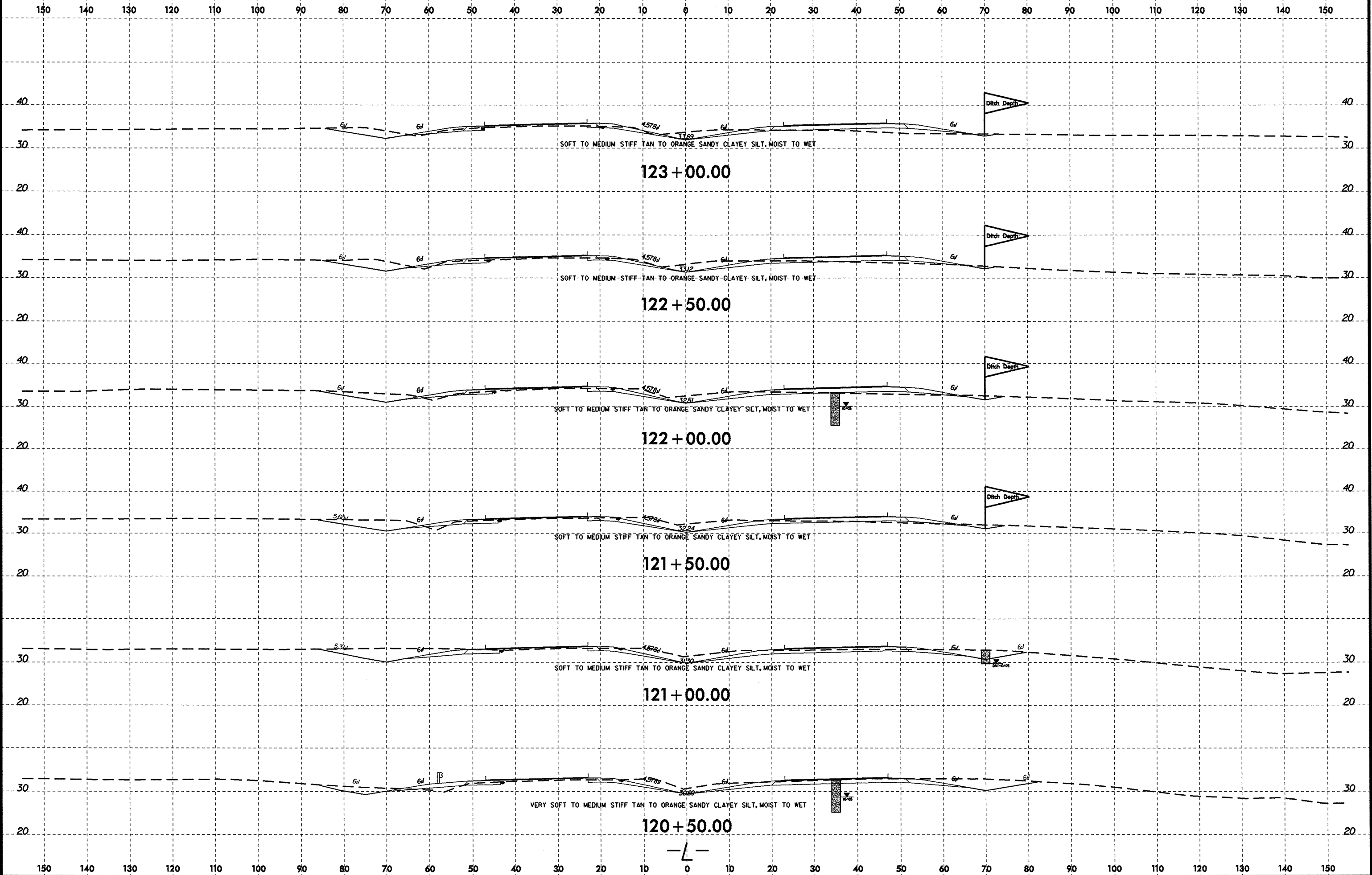


SOIL TEST RESULTS

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|---------|------|------|--------------------|----|-----|------------|-----------|
| | | | | | | | C. SAND | F. SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-69 | 14' RT | 119+00 | 0.00-1.50 | A-4(4) | 33 | 8 | 0.6 | 47.0 | 34.4 | 18.0 | 95 | 95 | 62 | - | - |
| SS-65 | 14' RT | 119+00 | 3.20-4.70 | A-4(1) | 32 | 3 | 2.0 | 43.8 | 28.2 | 26.0 | 100 | 99 | 63 | 20.0 | - |
| SS-66 | 14' RT | 119+00 | 13.40-14.90 | A-4(0) | 21 | NP | 1.8 | 31.0 | 33.2 | 34.0 | 100 | 99 | 77 | 27.7 | - |
| SS-67 | 14' RT | 119+00 | 18.40-19.90 | A-2-4(0) | 35 | 9 | 68.6 | 27.2 | 2.2 | 2.0 | 100 | 71 | 5 | - | - |
| SS-68 | 14' RT | 119+00 | 28.40-29.90 | A-4(0) | 14 | NP | 4.8 | 34.2 | 49.0 | 12.0 | 100 | 98 | 85 | - | - |

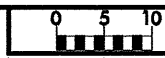
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8/23/99



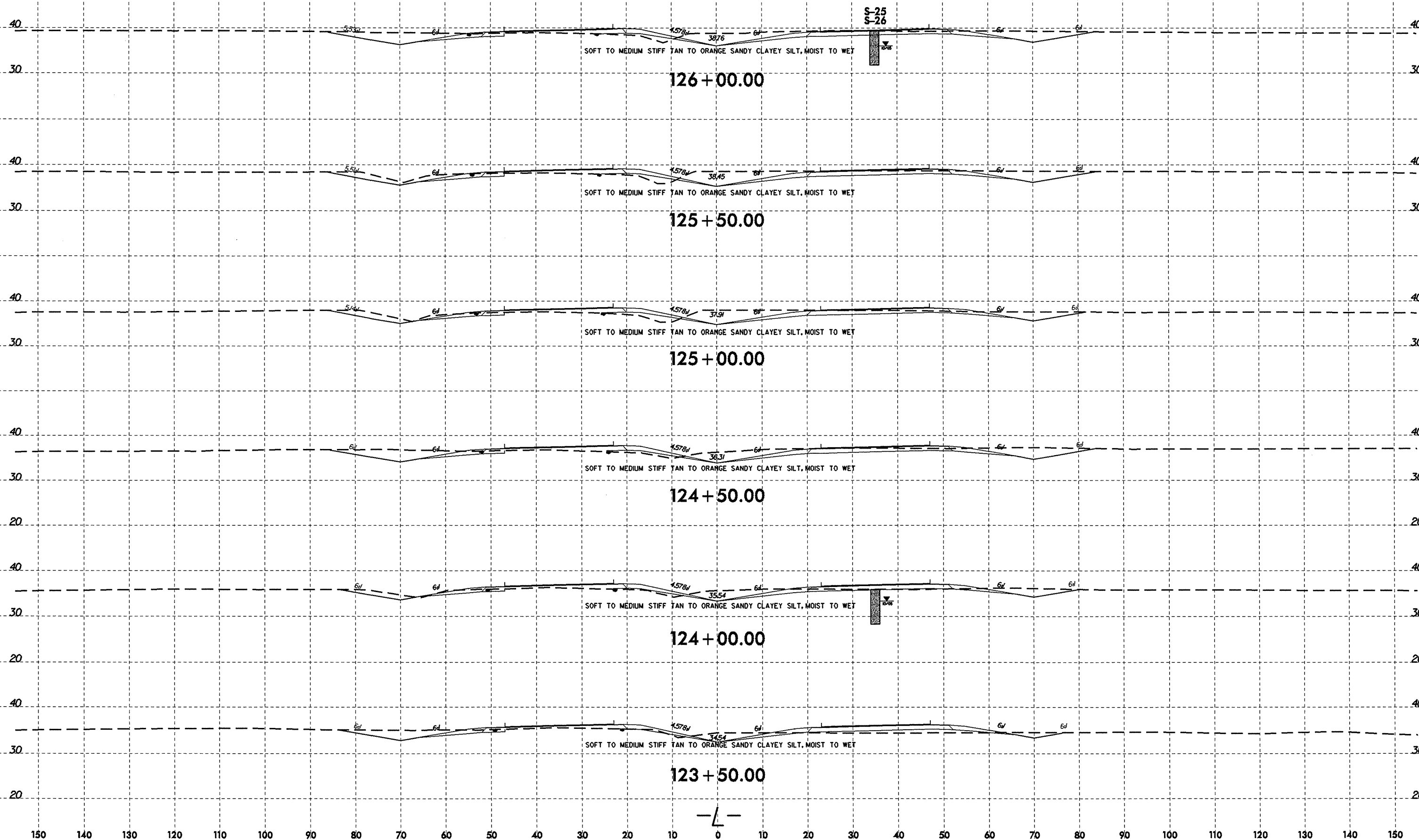
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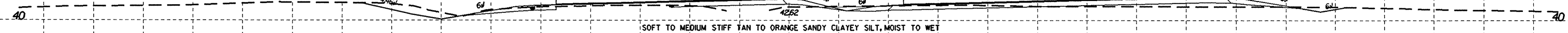
| SOIL TEST RESULTS | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|---------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C. SAND | F. SAND | SILT | CLAY | 10 | 40 | | |
| S-25 | 35' RT | 126+00 | 0.00-6.00 | A-4(3) | 36 | 5 | 0.4 | 36.7 | 25.5 | 37.3 | 100 | 100 | 63 | 14.0 |
| S-26 | 35' RT | 126+00 | 6.00-7.50 | A-4(0) | 26 | 3 | 12.0 | 56.2 | 13.6 | 18.3 | 100 | 95 | 39 | - |



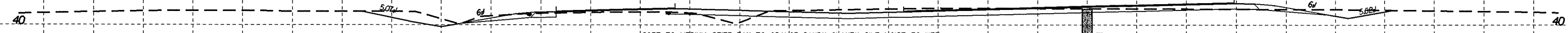
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8/23/99

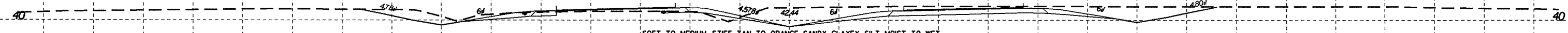
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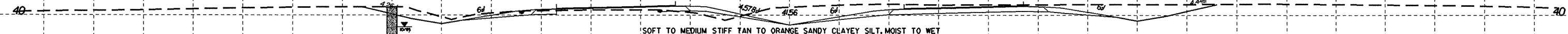
129+00.00



128+50.00



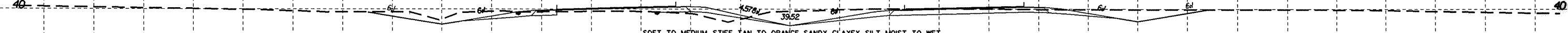
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127+50.00



127+00.00



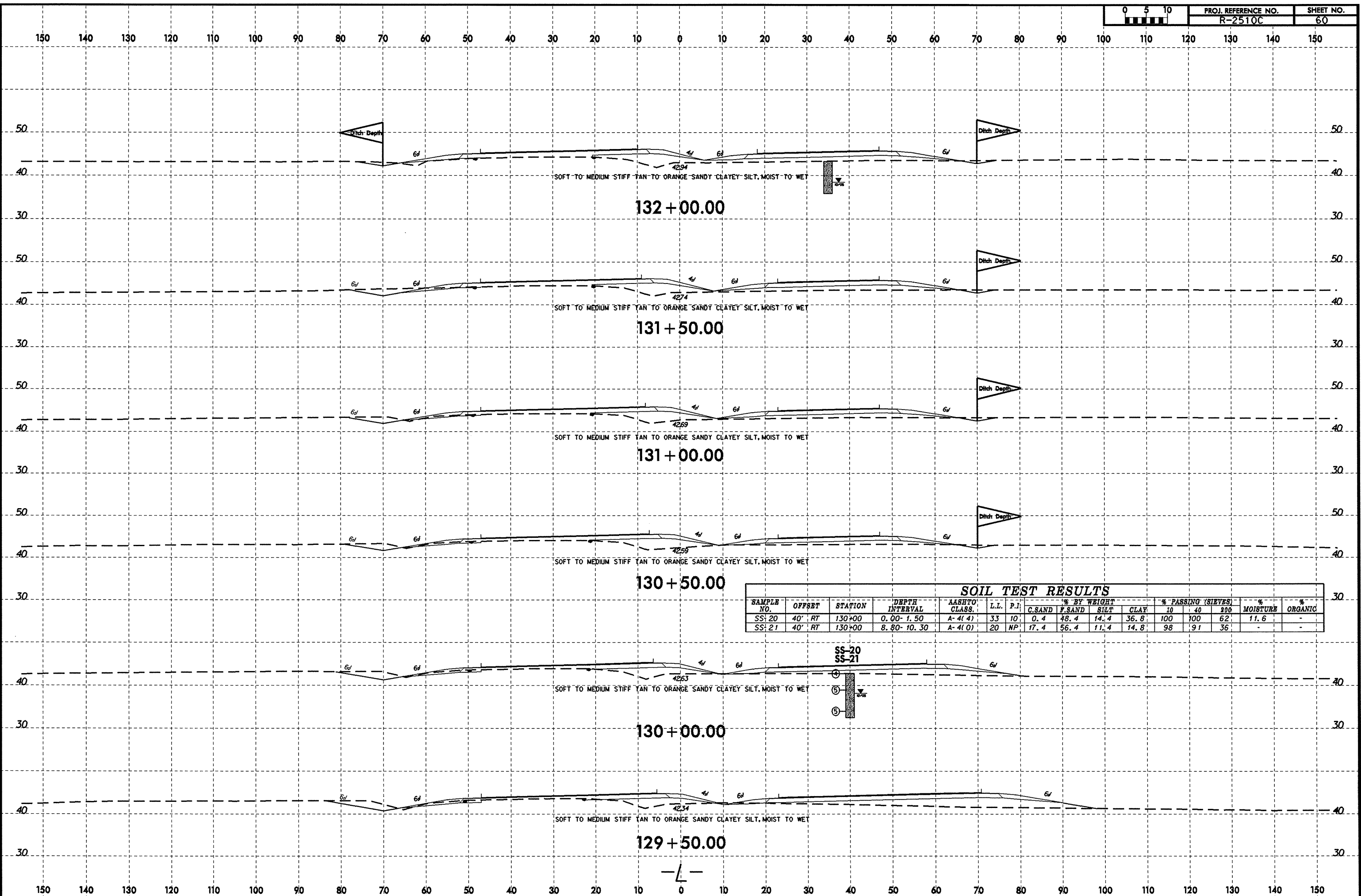
126+50.00

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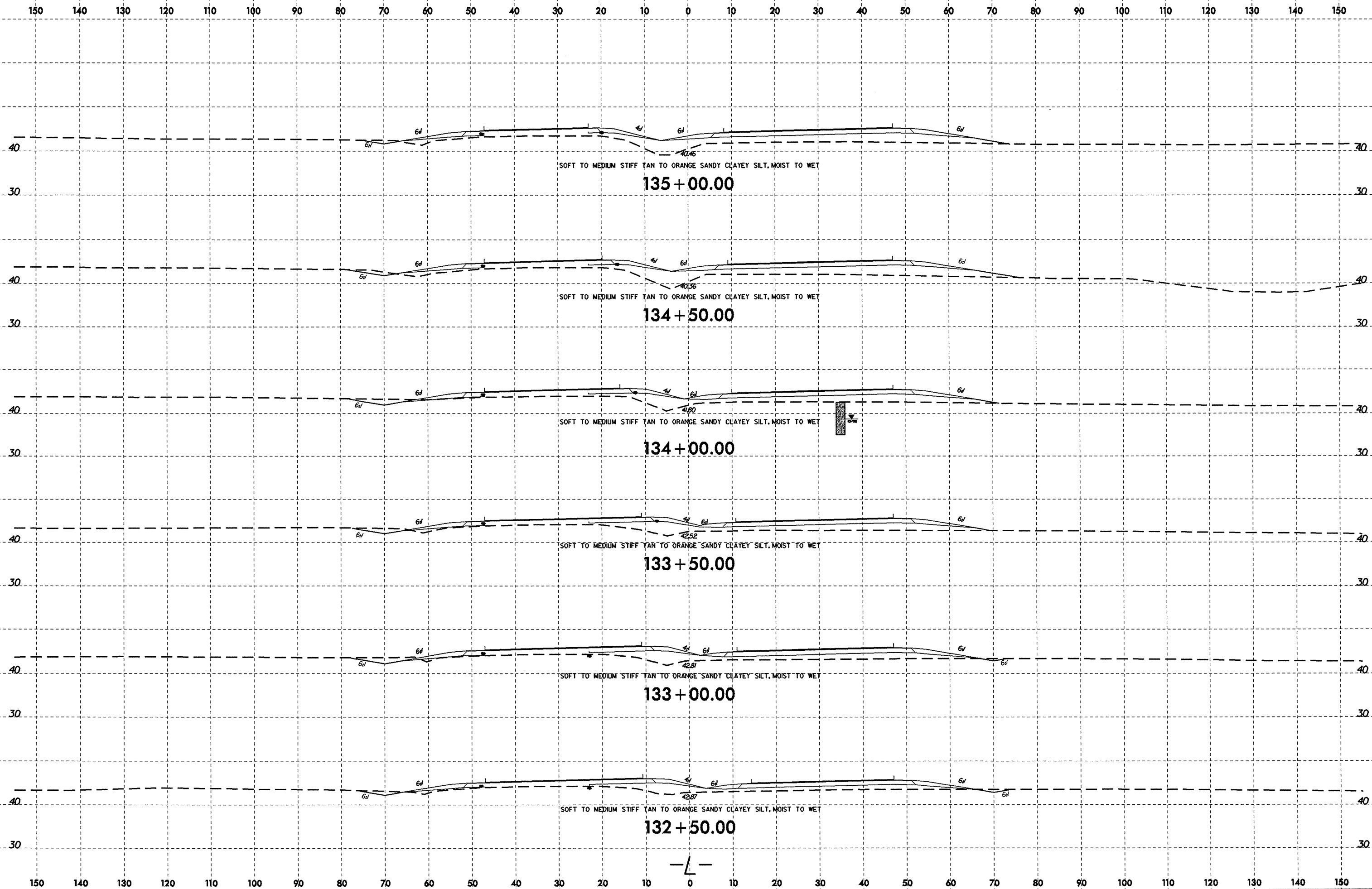
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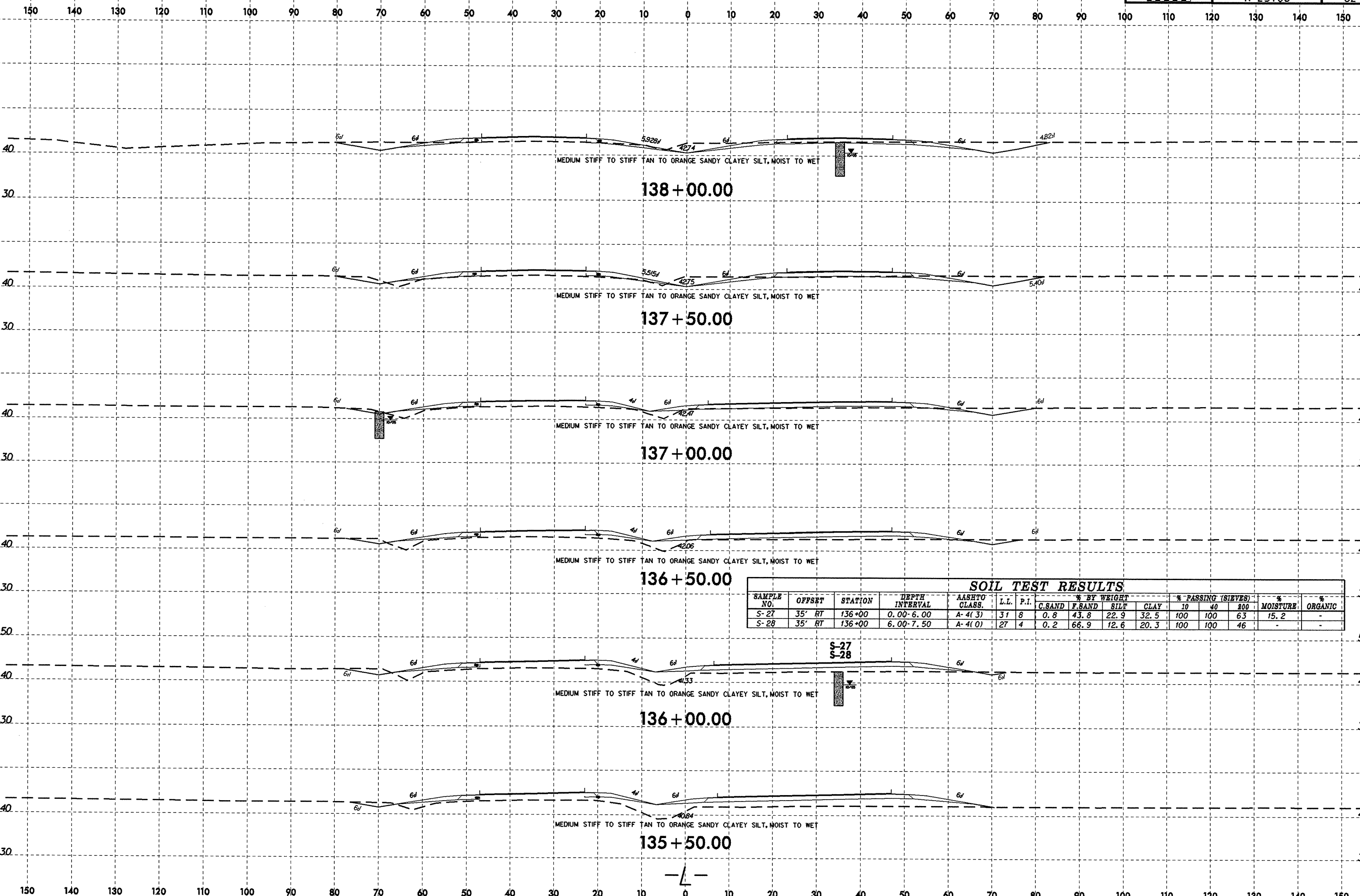


| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-20 | 40' RT | 130+00 | 0.00-1.50 | A-4(4) | 33 | 10 | 0.4 | 48.4 | 14.4 | 36.8 | 100 | 100 | 62 | 11.6 | - |
| SS-21 | 40' RT | 130+00 | 8.80-10.30 | A-4(0) | 20 | NP | 17.4 | 56.4 | 11.4 | 14.8 | 98 | 91 | 36 | - | - |

8/23/99
21-NOV-2006 09:08
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8/23/99



138 + 00.00

137 + 50.00

137 + 00.00

136 + 50.00

136 + 00.00

135 + 50.00

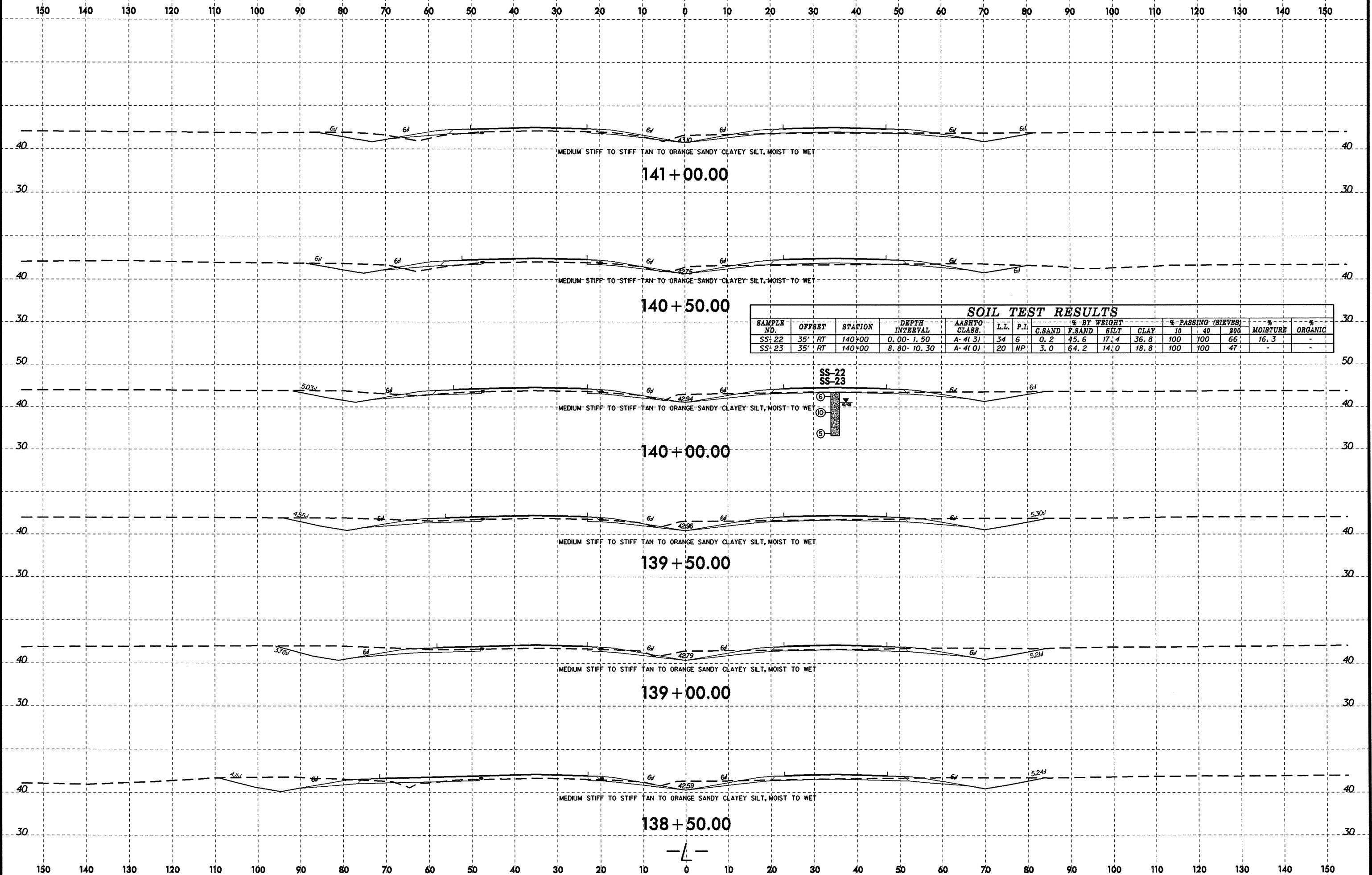
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 800 | | |
| S-27 | 35' RT | 136+00 | 0.00-6.00 | A-4(3) | 31 | 8 | 0.8 | 43.8 | 22.9 | 32.5 | 100 | 100 | 63 | 15.2 | - |
| S-28 | 35' RT | 136+00 | 6.00-7.50 | A-4(0) | 27 | 4 | 0.2 | 66.9 | 12.6 | 20.3 | 100 | 100 | 46 | - | - |

SOIL TEST RESULTS

S-27
S-28

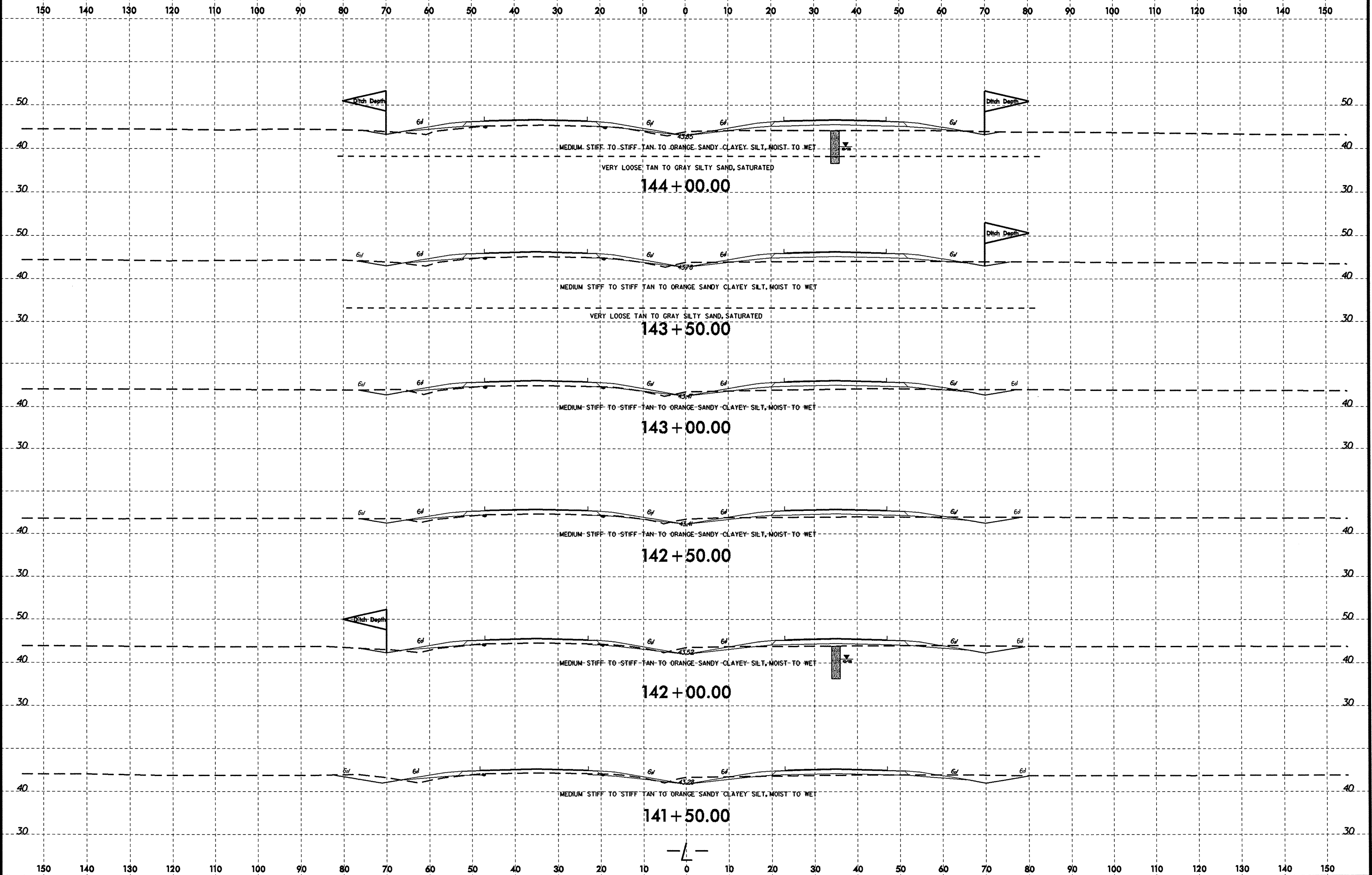
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8/23/99



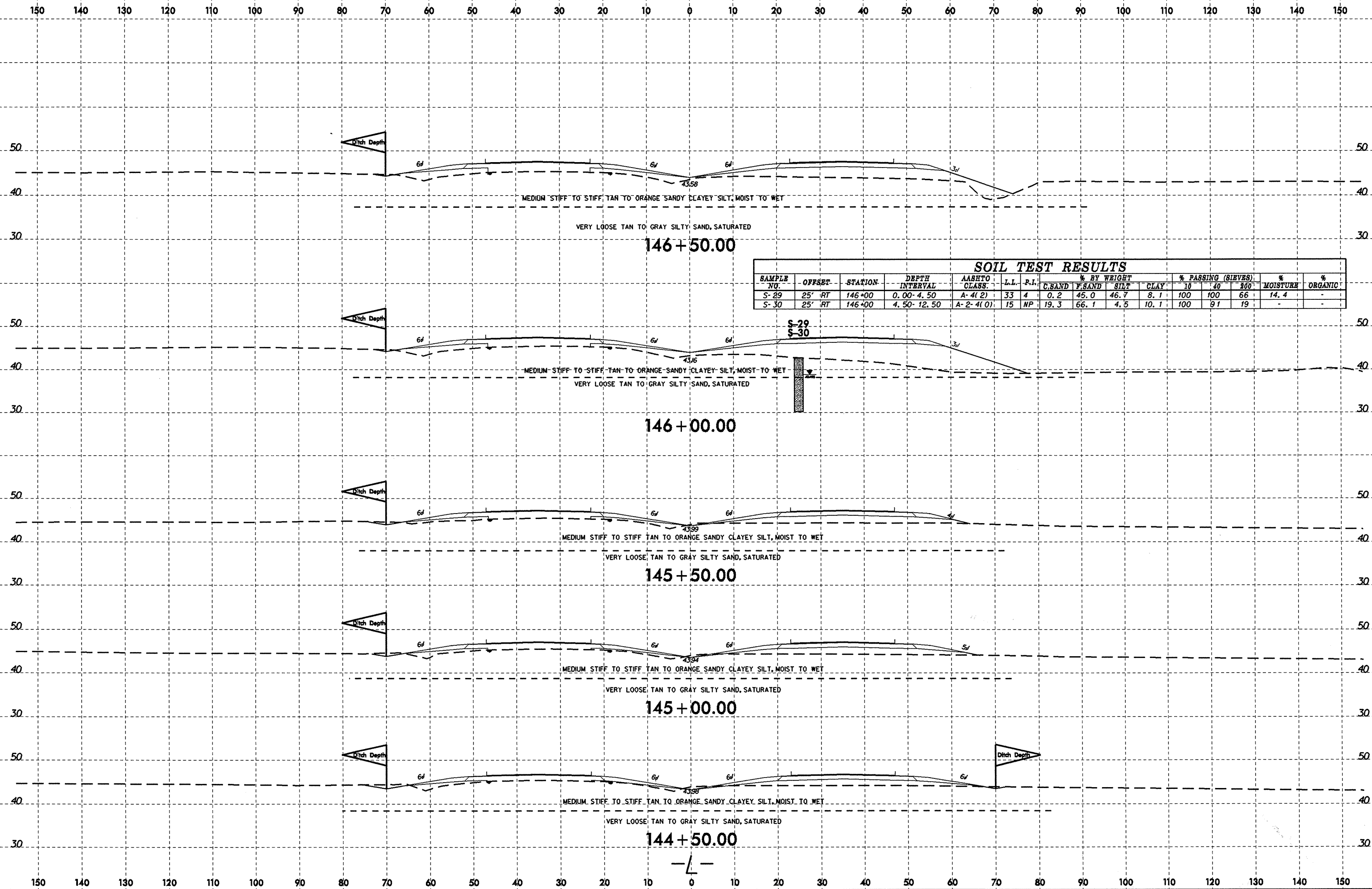
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8/23/99



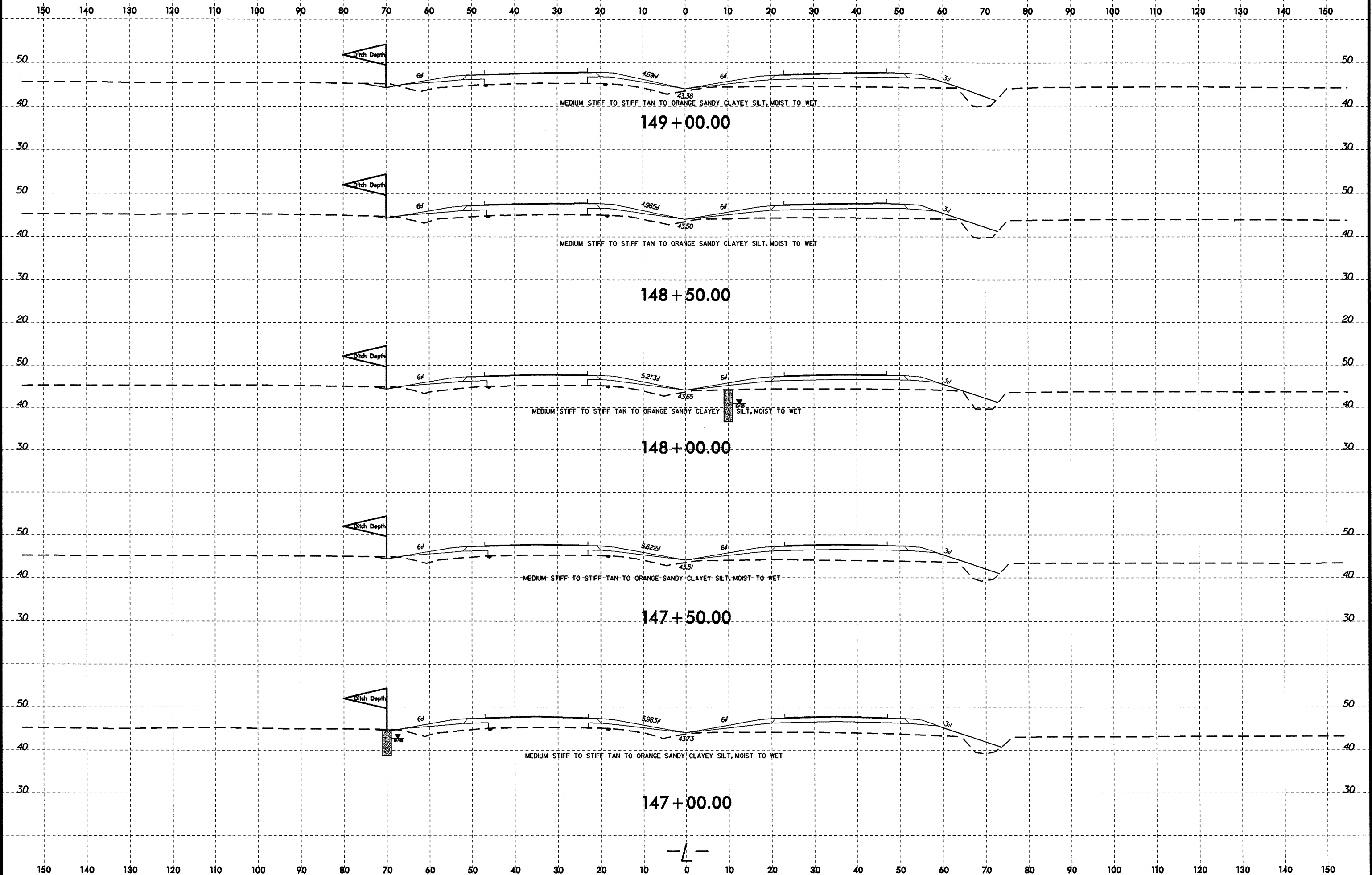
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8/23/99



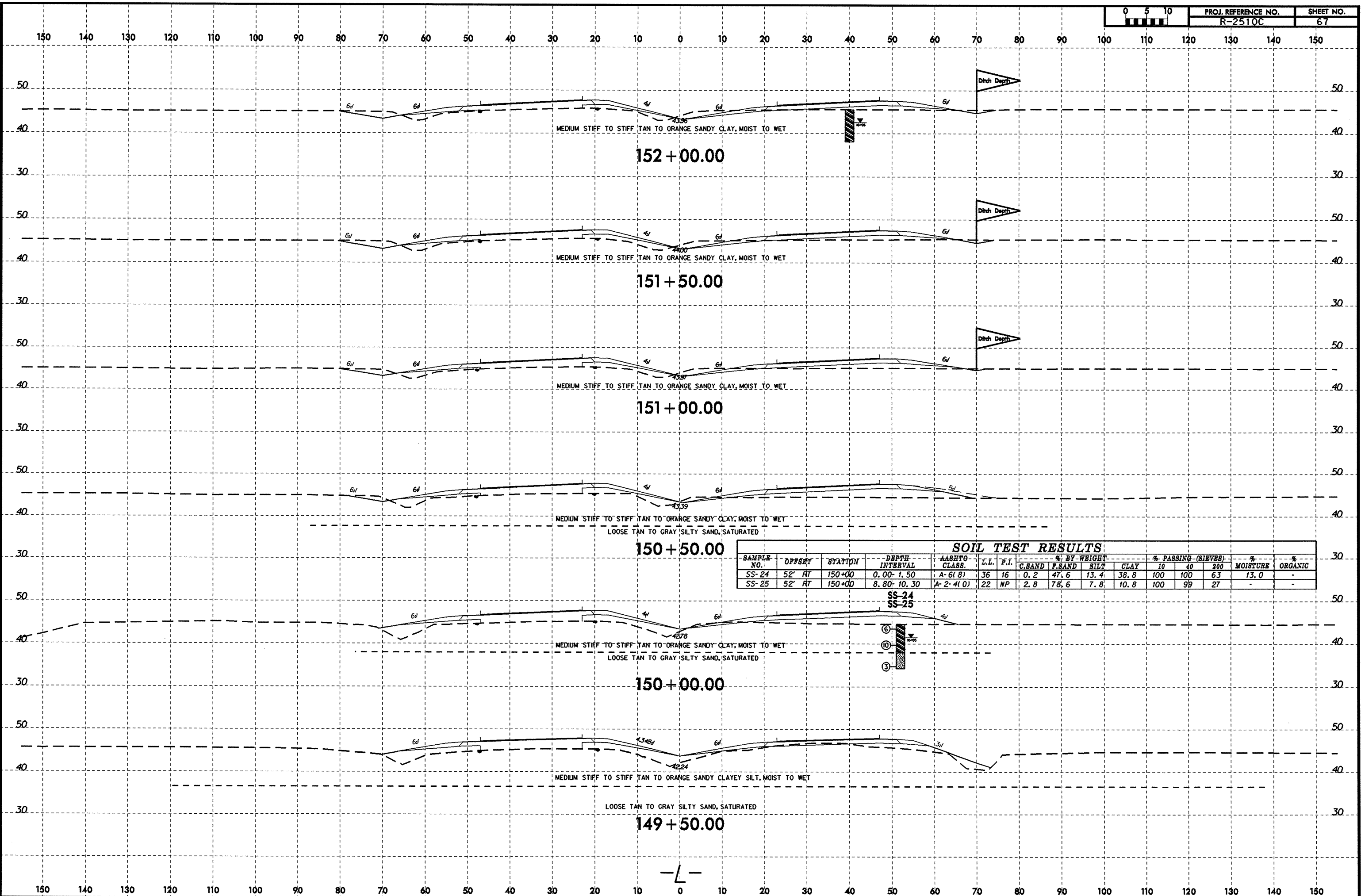
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8/23/99
21-NOV-2006 09:42
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-L-

21-NOV-2006 09:13
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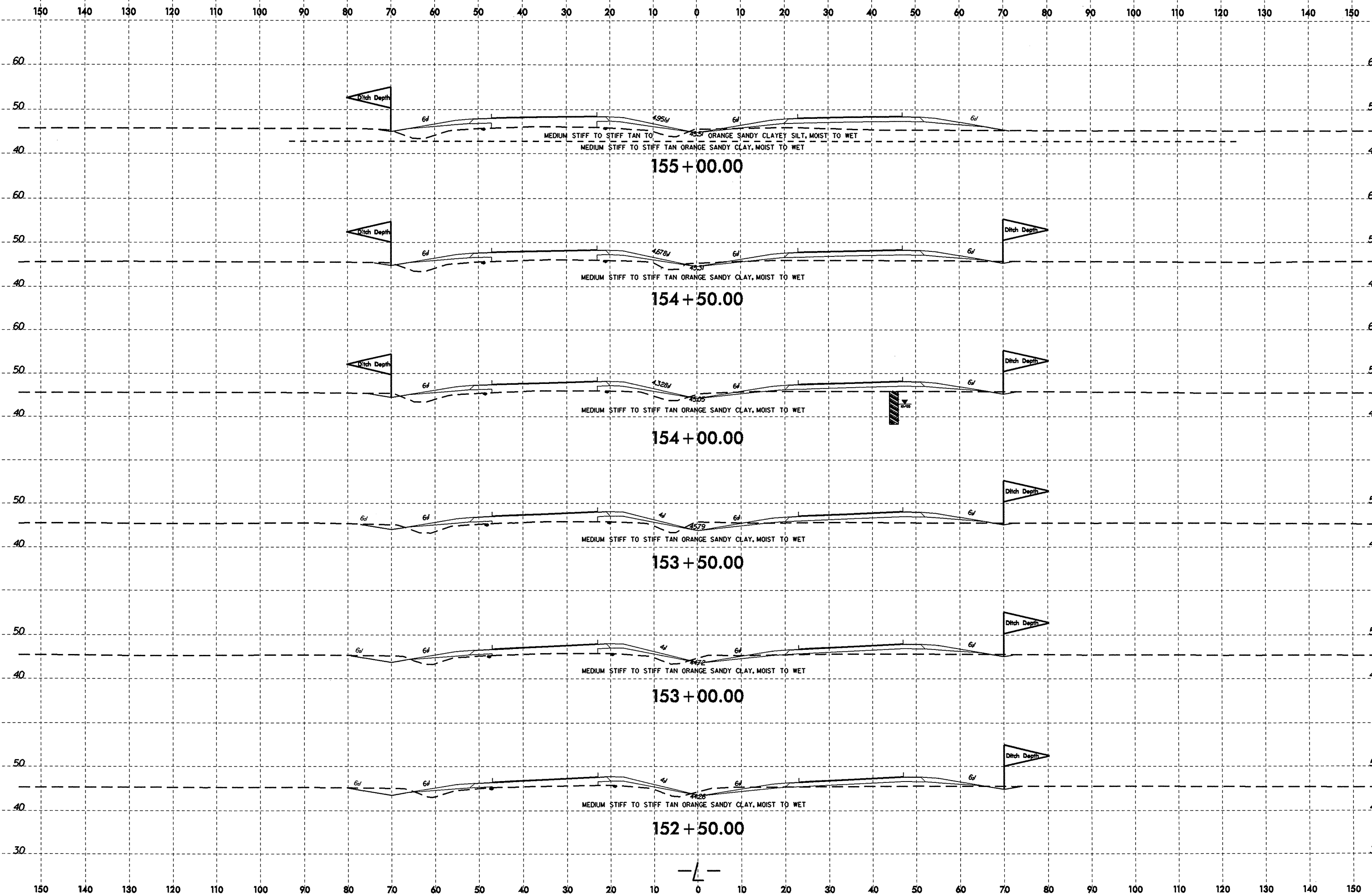
| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | MOISTURE % | ORGANIC % |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-24 | 52' RT | 150+00 | 0.00-1.50 | A-6(8) | 36 | 16 | 0.2 | 47.6 | 13.4 | 38.8 | 100 | 100 | 63 | 13.0 | - |
| SS-25 | 52' RT | 150+00 | 8.80-10.30 | A-2-4(0) | 22 | NP | 2.8 | 78.6 | 7.8 | 10.8 | 100 | 99 | 27 | - | - |

-L-

8/23/99



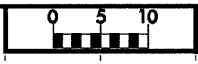
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| R-2510C | 68 |



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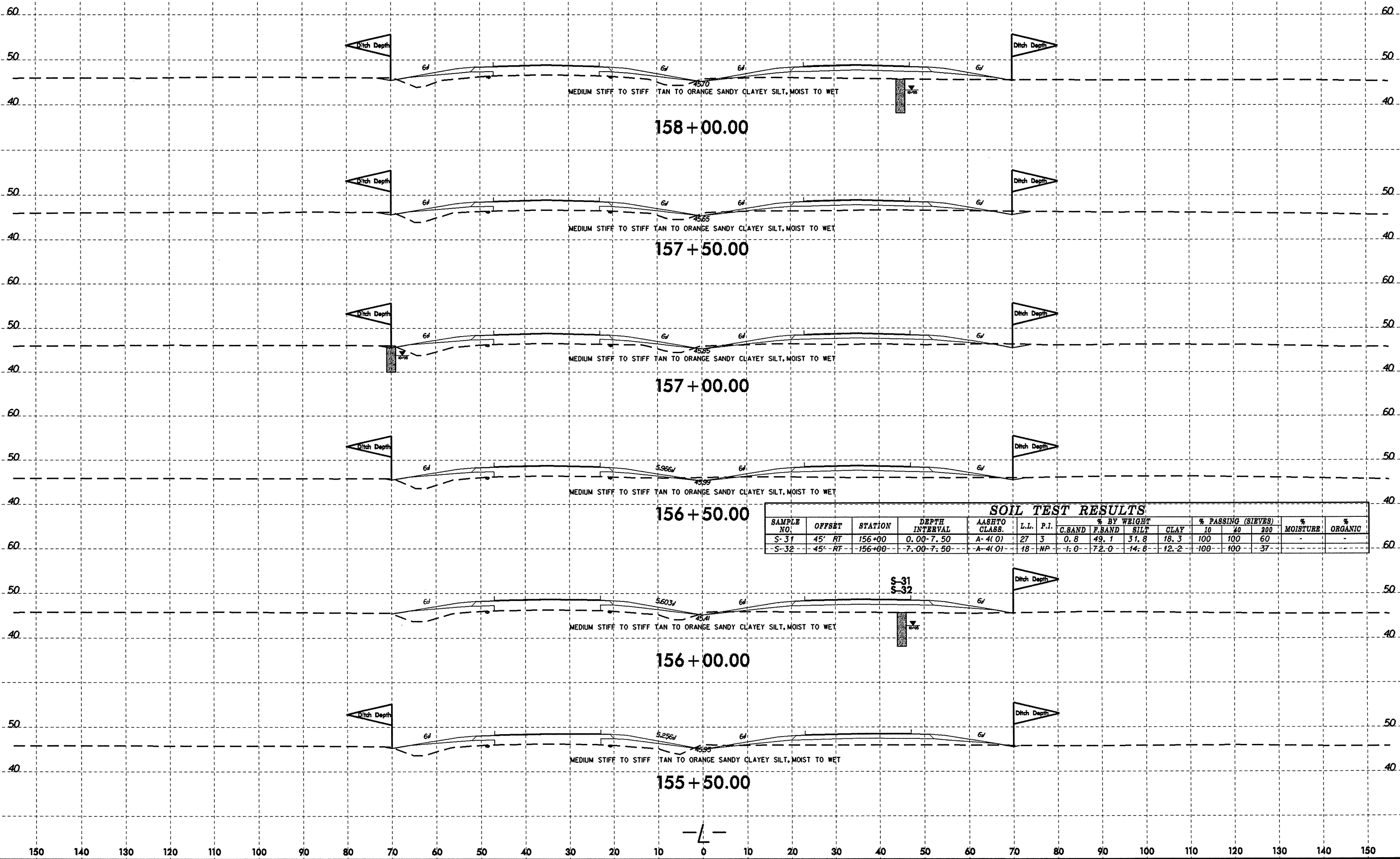
-L-

8/23/99



PROJ. REFERENCE NO. R-2510C SHEET NO. 69

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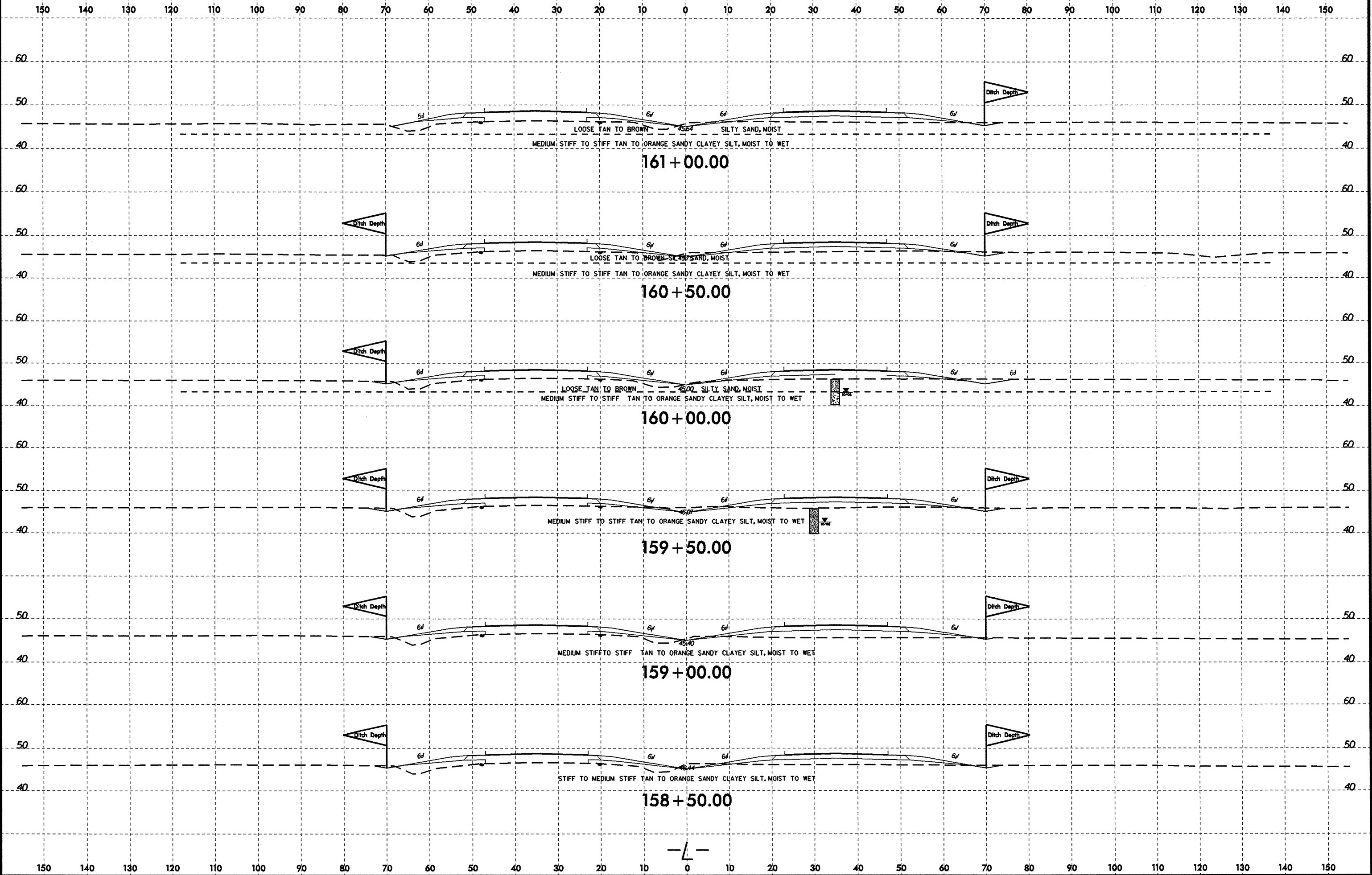


| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | G.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-31 | 45' RT | 156+00 | 0.00-7.50 | A-4(0) | 27 | 3 | 0.8 | 49.1 | 31.8 | 18.3 | 100 | 100 | 60 | - | - |
| S-32 | 45' RT | 156+00 | 7.00-7.50 | A-4(0) | 18 | NP | 1.0 | 72.0 | 14.8 | 12.2 | 100 | 100 | 37 | - | - |

21-NOV-2006 09:50 L:\ERD\Brewery\10-2510C\station\156+50.00\2510C_GEO.DWG CADD_GEO.DWG\2510C_GEO.XSL 12.dgn

-L-

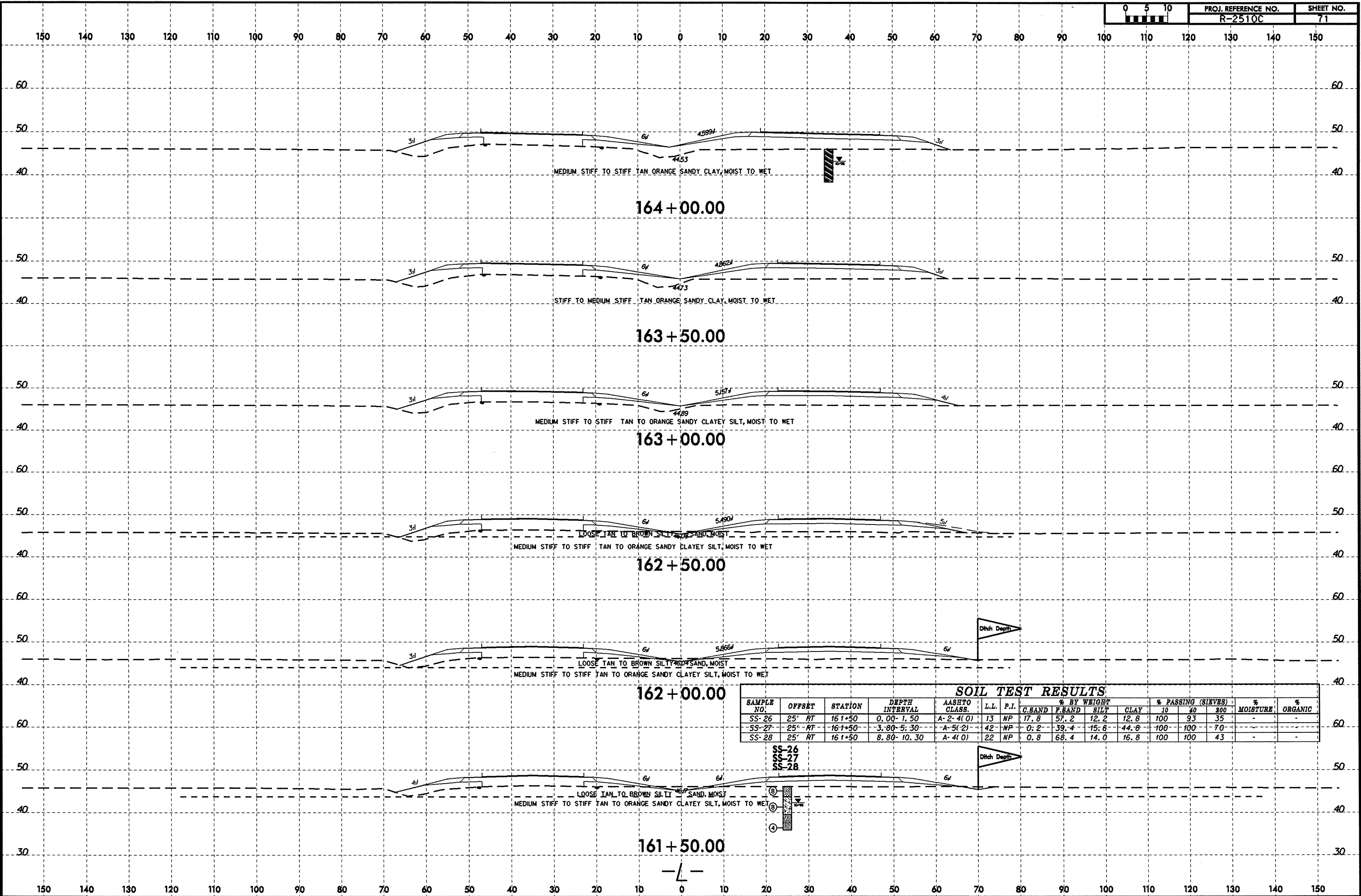
8/23/99



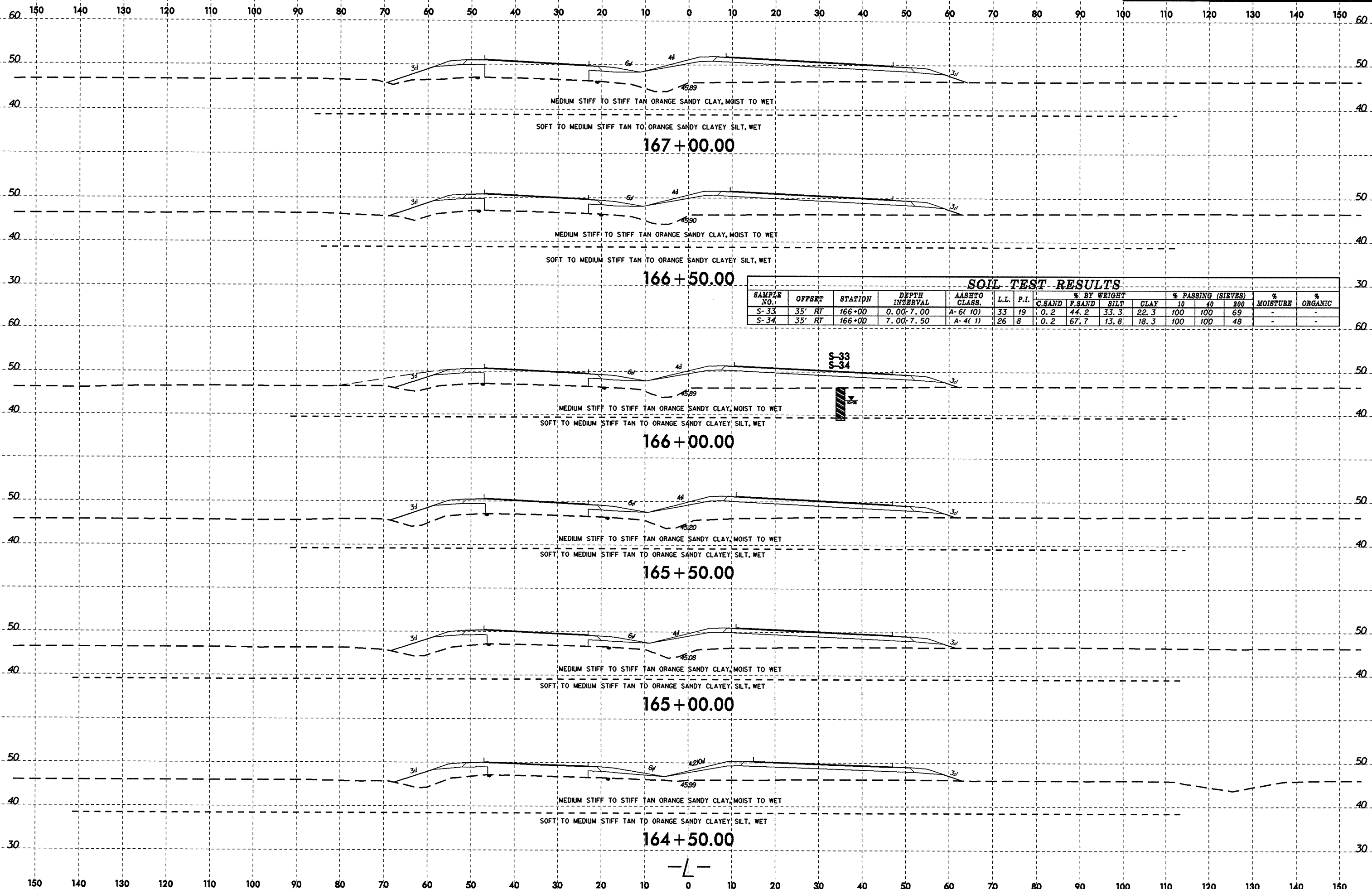
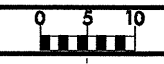
-L-

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8/23/99
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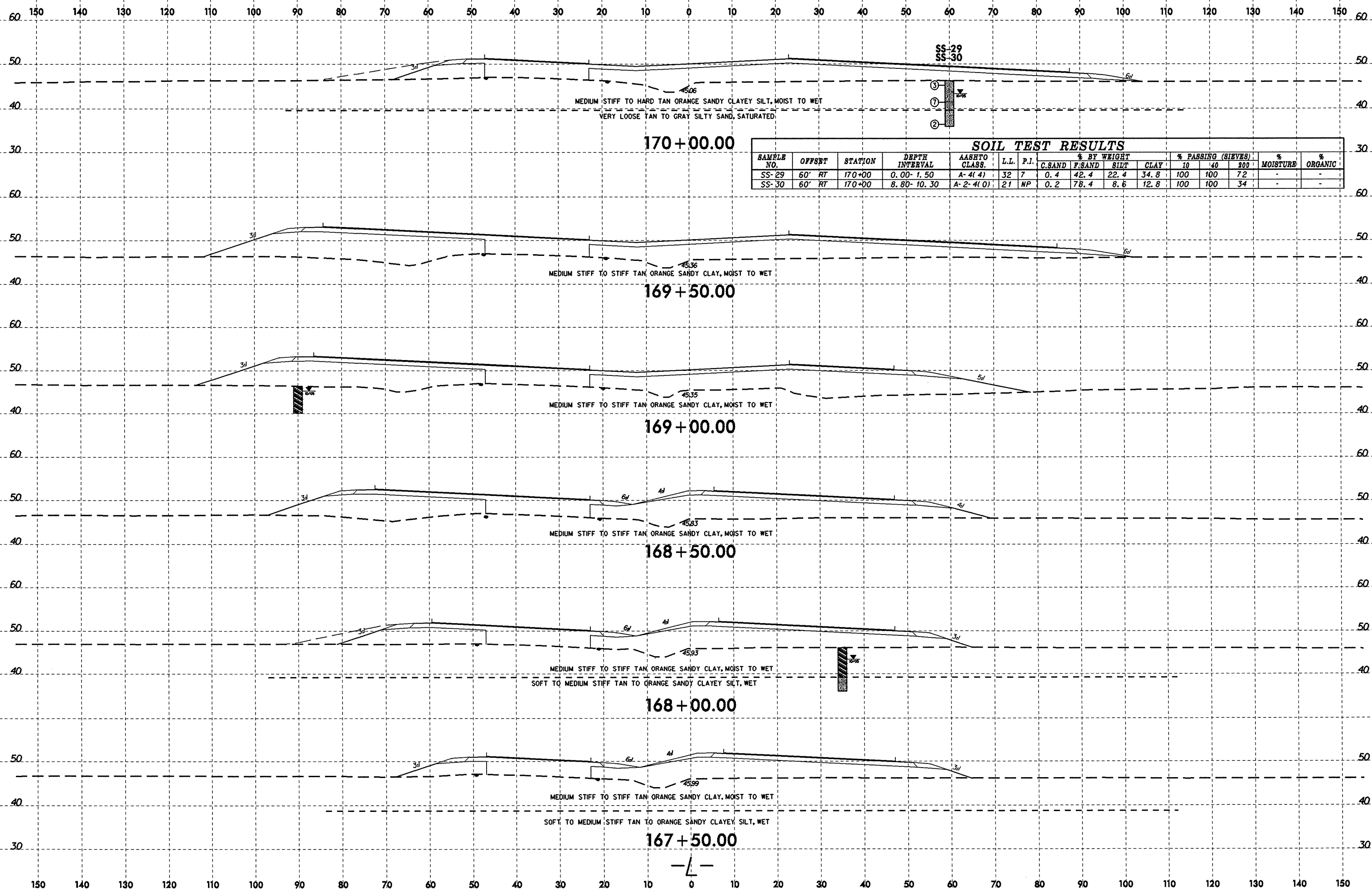
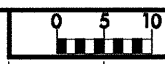
8/23/99



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|---------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | G. SAND | F. SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-33 | 35' RT | 166+00 | 0.00-7.00 | A-6(10) | 33 | 19 | 0.2 | 44.2 | 33.3 | 22.3 | 100 | 100 | 69 | - | - |
| S-34 | 35' RT | 166+00 | 7.00-7.50 | A-4(1) | 26 | 8 | 0.2 | 67.7 | 13.8 | 18.3 | 100 | 100 | 48 | - | - |

21-NOV-2006 09:54
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 User: geog

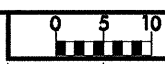
8/23/99



| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-29 | 60' RT | 170+00 | 0.00- 1.50 | A-4(4) | 32 | 7 | 0.4 | 42.4 | 22.4 | 34.8 | 100 | 100 | 72 | - | - |
| SS-30 | 60' RT | 170+00 | 8.80- 10.30 | A-2-4(0) | 21 | NP | 0.2 | 78.4 | 8.6 | 12.8 | 100 | 100 | 34 | - | - |

2-NOV-2006 09:55 L:\ERO\G\proj\116_investigation\TIP\R2510C_GEO\RDWY\CADD_GEO\TECH\XSC\R2510C_GEO_XS1.L2.dgn

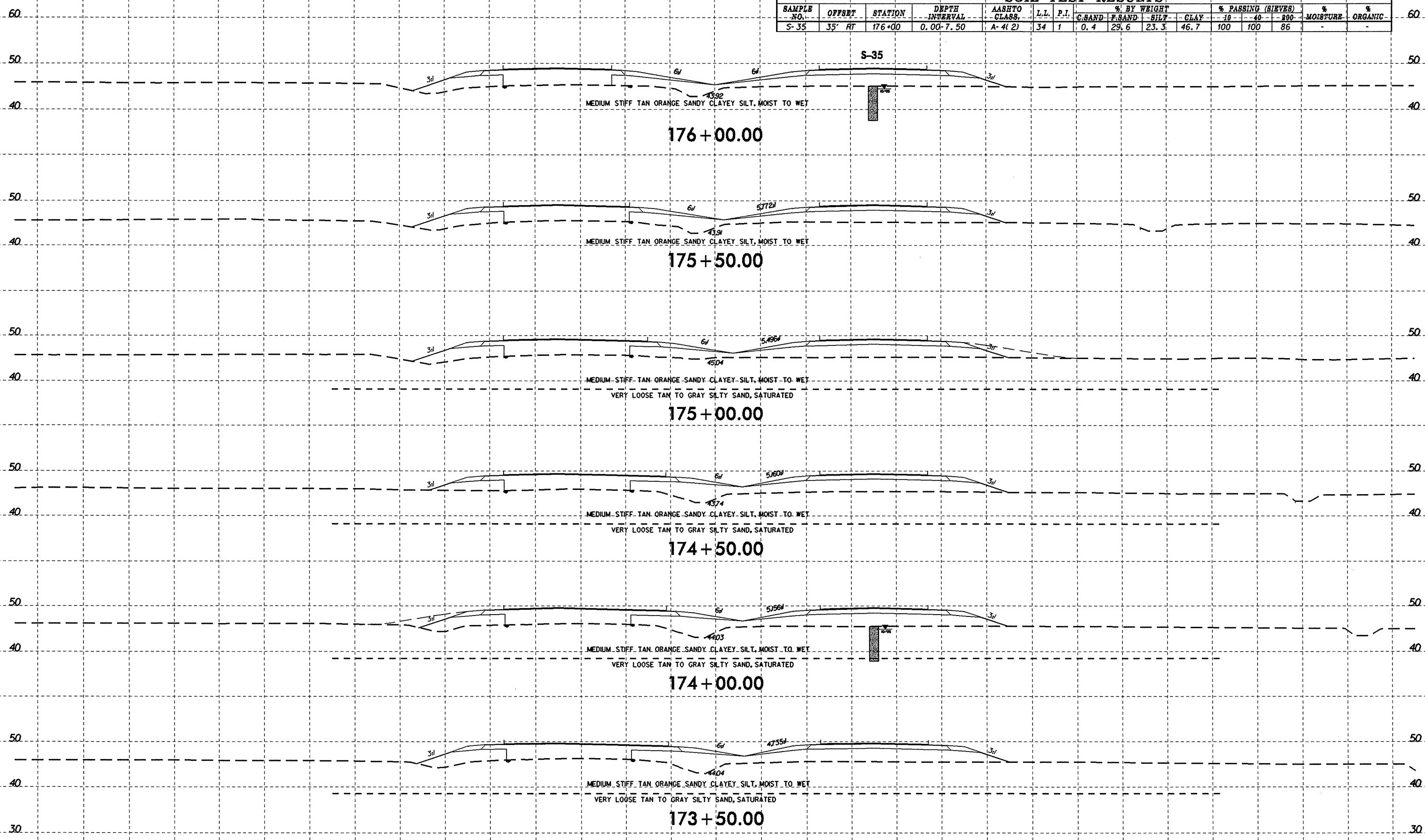
8/23/99



PROJ. REFERENCE NO. R-2510C SHEET NO. 75

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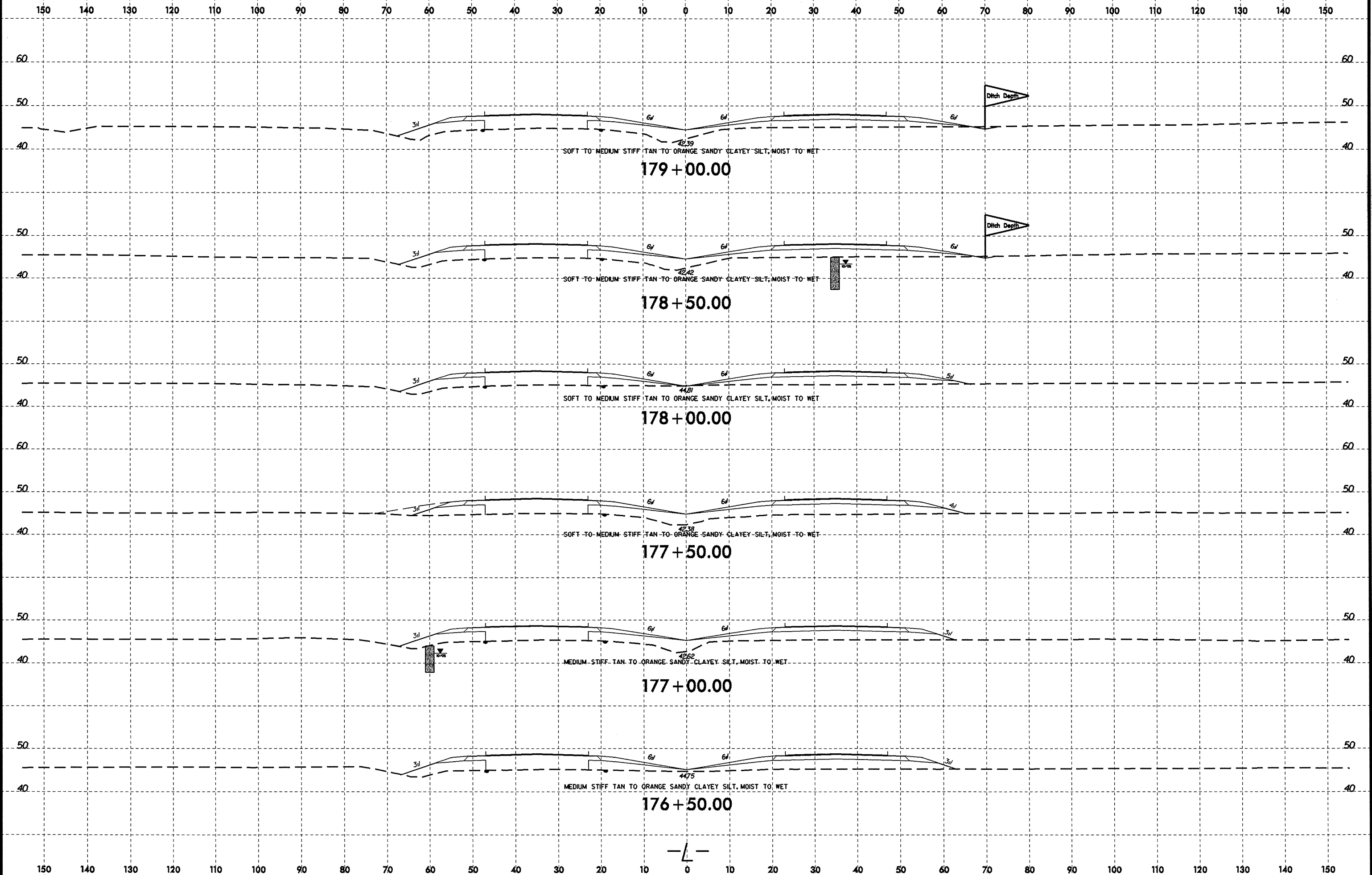
| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|------|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | #10 | #40 | #100 | | |
| S-35 | 35' RT | 176+00 | 0.00-7.50 | A-4(2) | 34 | 1 | 0.4 | 29.6 | 23.3 | 46.7 | 100 | 100 | 86 | - | - |



21-NOV-2006 09:57 L:\EPOV\G-egp\116_104833\station\TIP\R2510C_GEO_RDWY\CADD_GEOTECH\XSEC\R2510C-geo_xss_12.dgn

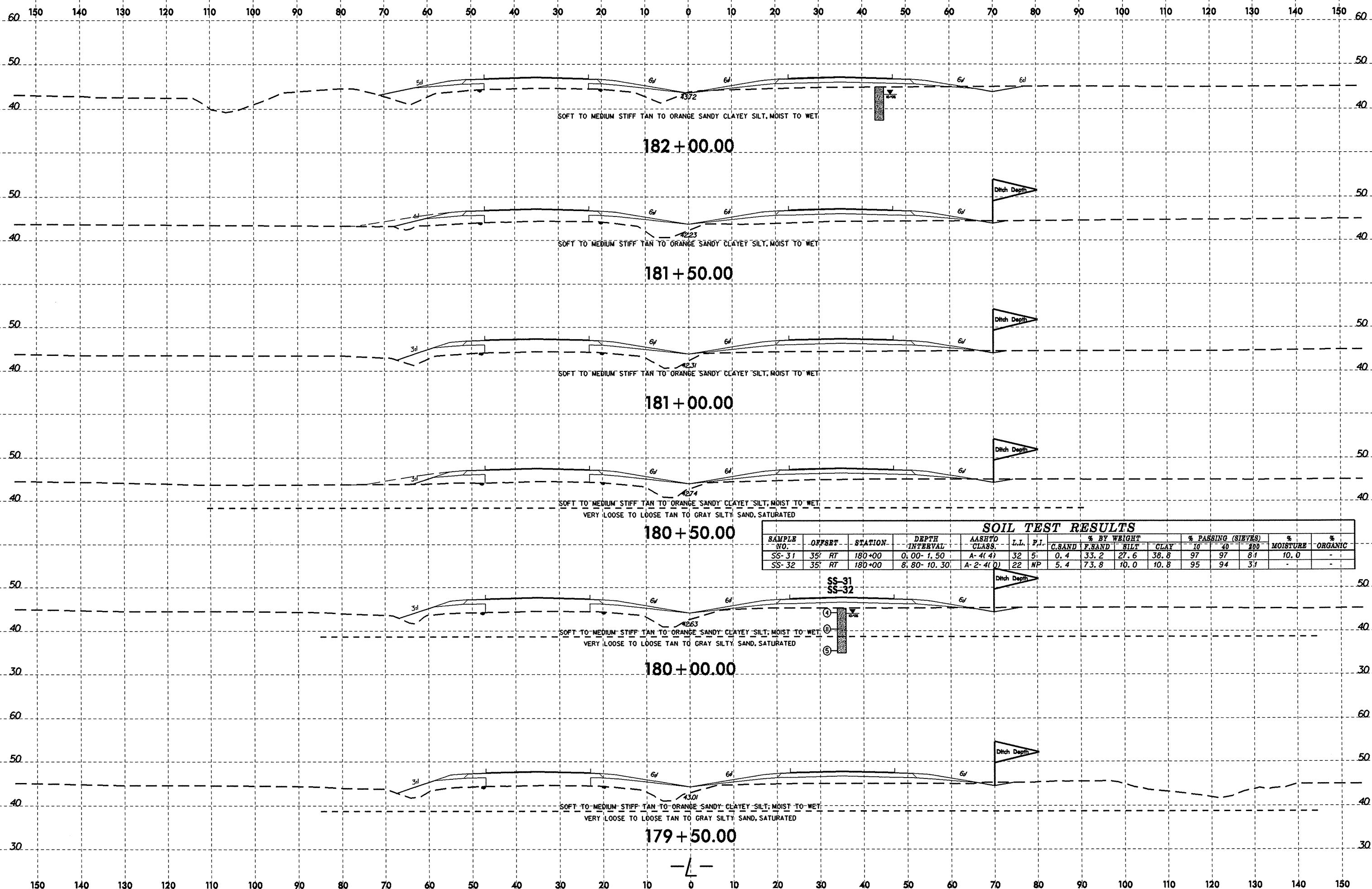
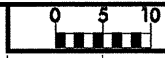
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8/23/99

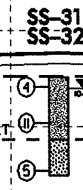


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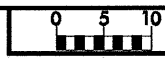
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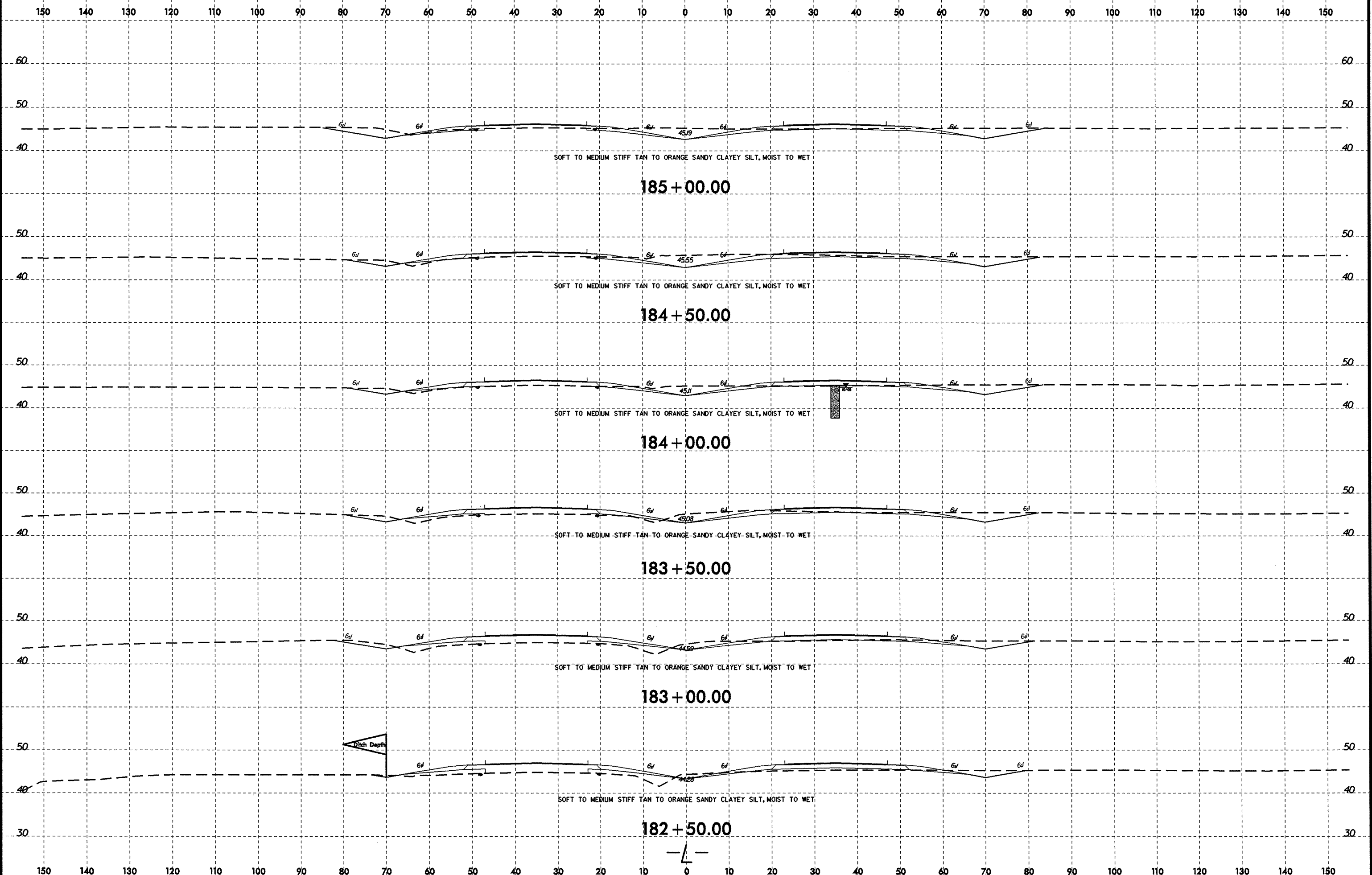
| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|----|----|------------|-----------|-----|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC | |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | | | 100 |
| SS-31 | 35' RT | 180+00 | 0.00- 1.50 | A-4(4) | 32 | 5 | 0.4 | 33.2 | 27.6 | 38.8 | 97 | 97 | 81 | 10.0 | - |
| SS-32 | 35' RT | 180+00 | 8.80- 10.30 | A-2-4(0) | 22 | NP | 5.4 | 73.8 | 10.0 | 10.8 | 95 | 94 | 31 | - | - |



8/23/99

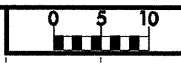


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| R-2510C | 78 |

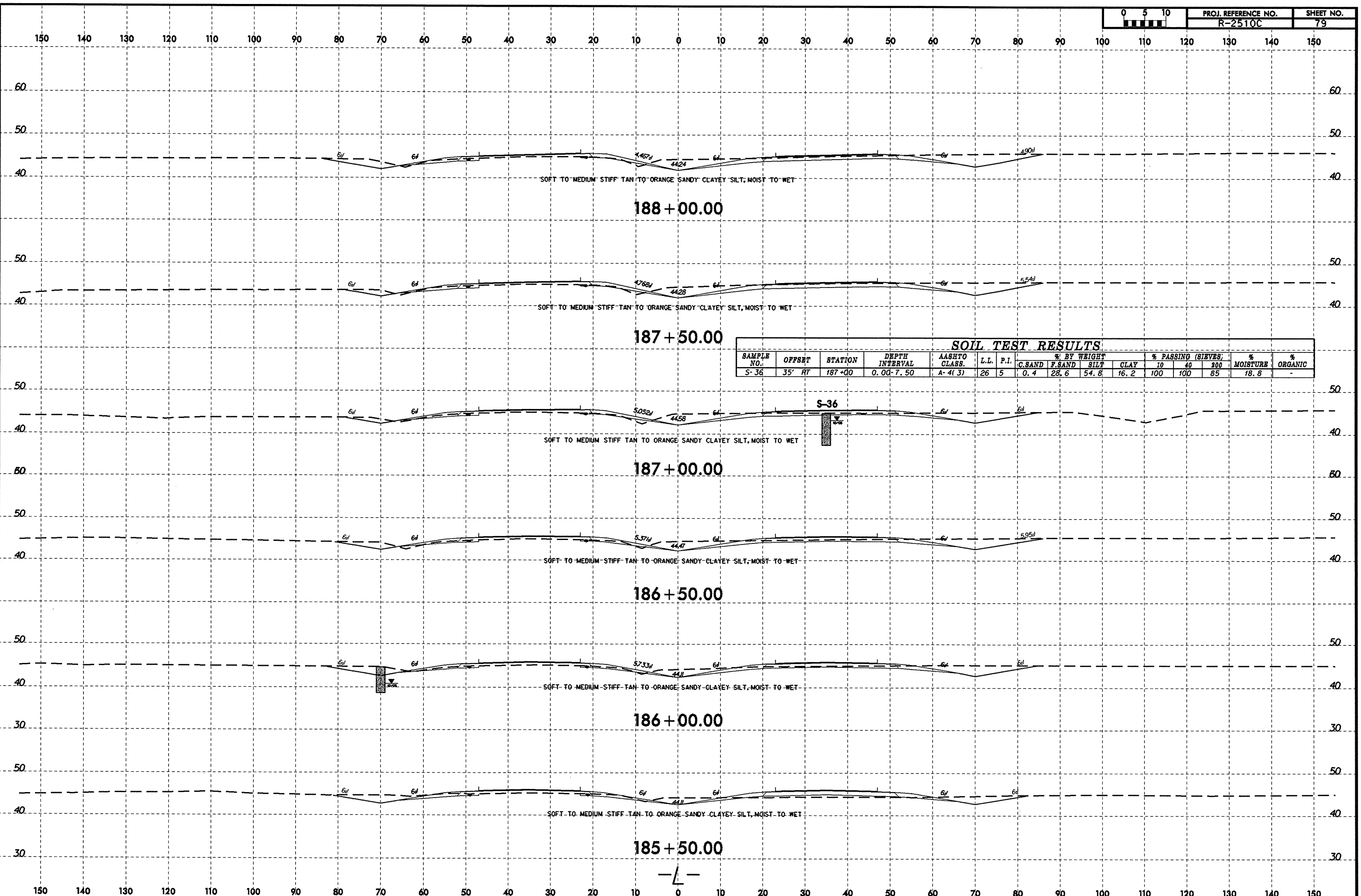


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8/23/99



| | |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| R-2510C | 79 |

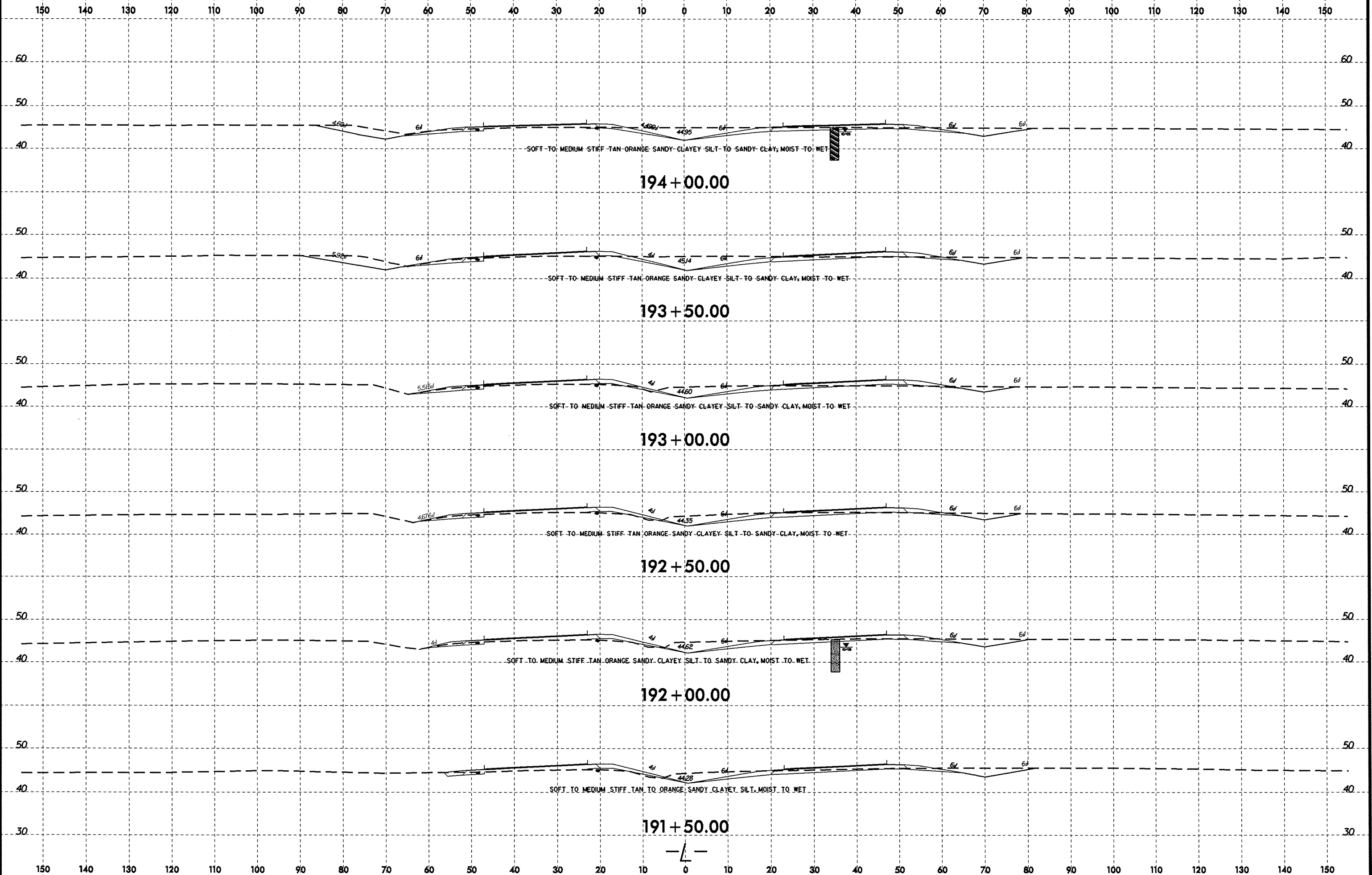


| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-36 | 35' RT | 187+00 | 0.00-7.50 | A-4(3) | 26 | 5 | 0.4 | 28.6 | 54.8 | 16.2 | 100 | 100 | 85 | 18.8 | - |

21-MAY-2006 10:00
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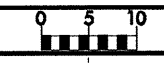
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8/23/99

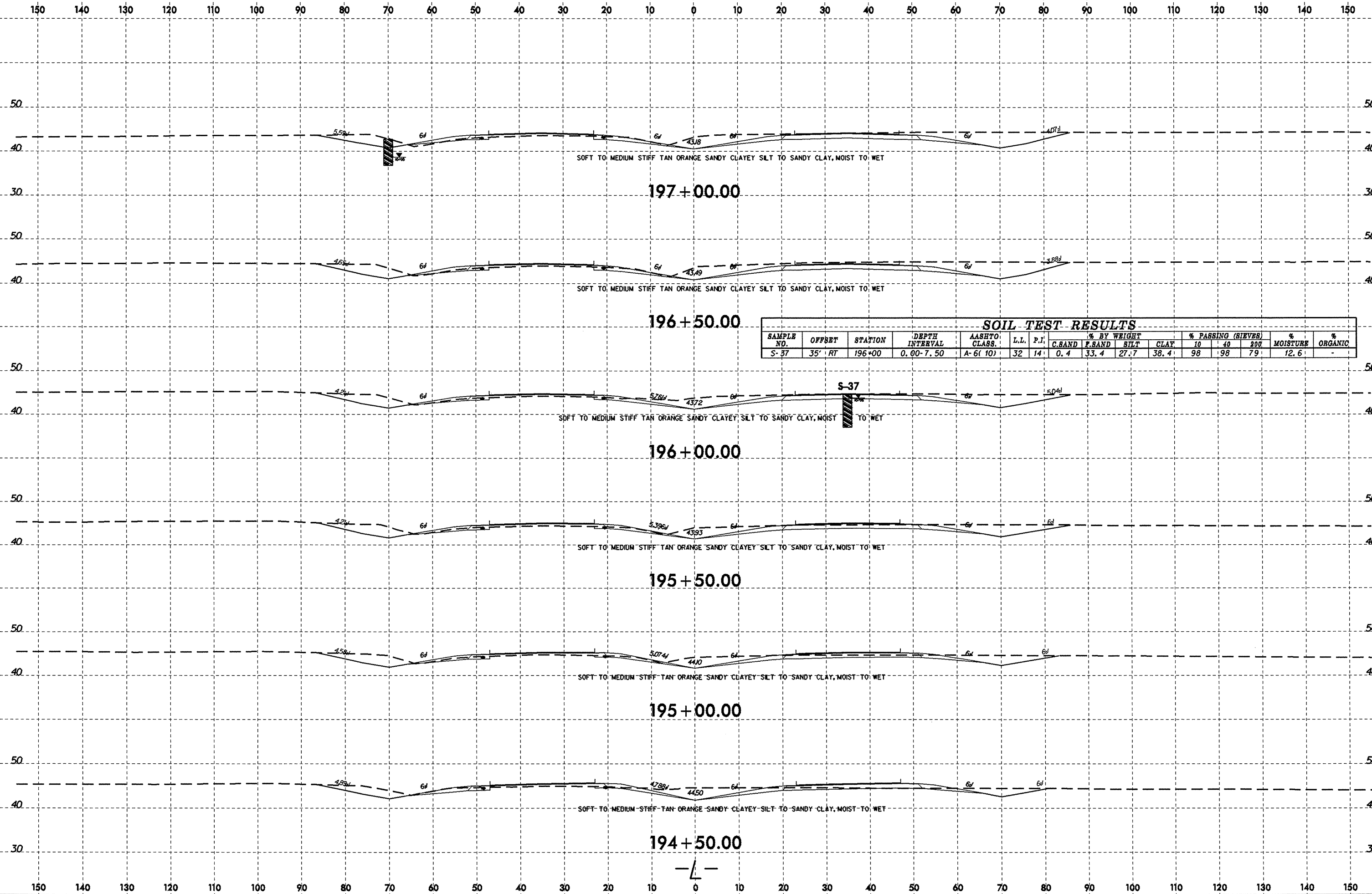


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8/23/99



PROJ. REFERENCE NO. R-2510C SHEET NO. 82

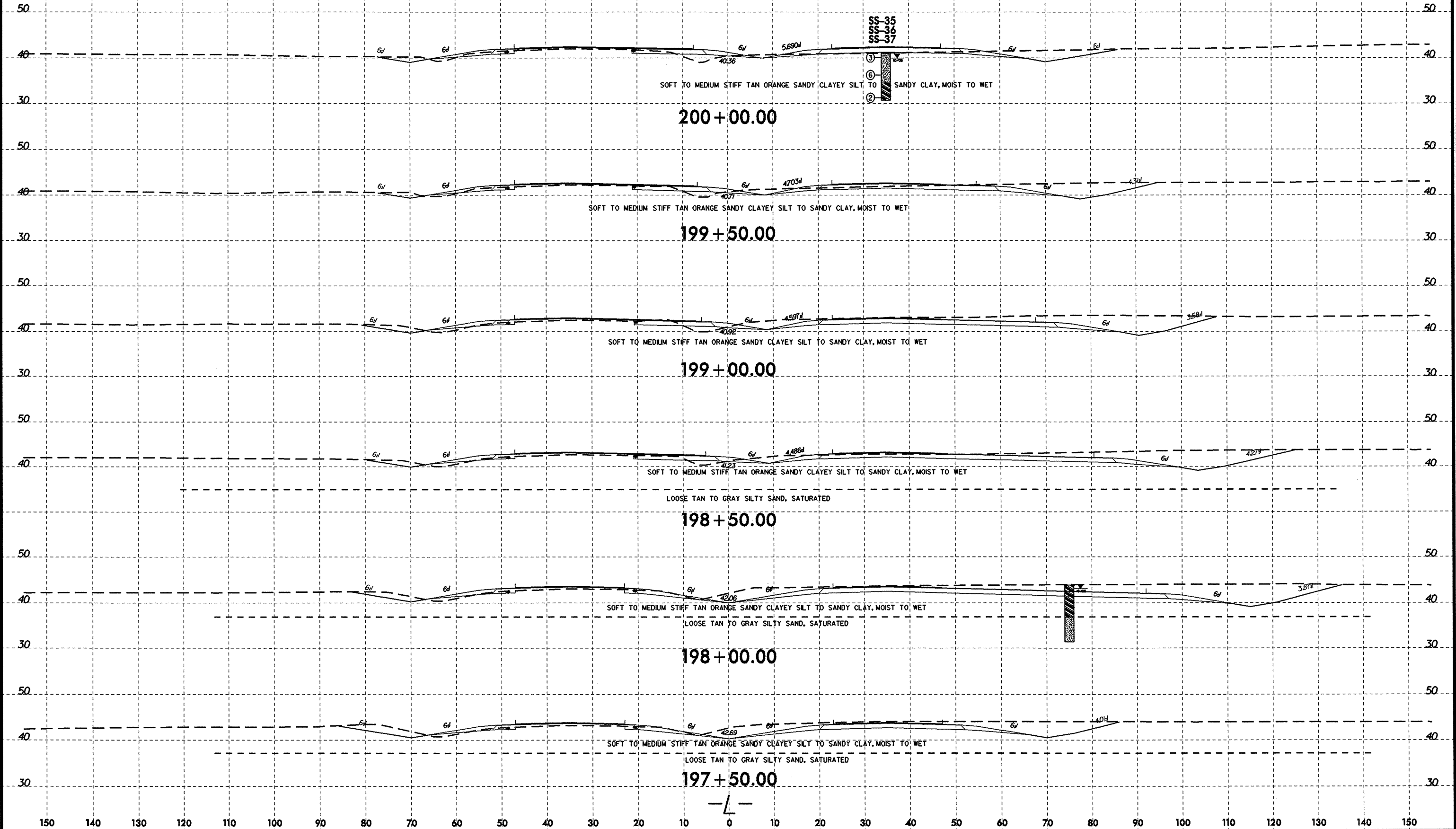


| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.BAND | F.BAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-37 | 35' RT | 196+00 | 0.00-7.50 | A-6(10) | 32 | 14 | 0.4 | 33.4 | 27.7 | 38.4 | 98 | 98 | 79 | 12.6 | - |

21-NOV-2006 10:03 L:\FERRO\Greenville_Inv\geot\station\TIP\R2510C_GEO_ROWY\CADD_GEO\TECH\asc\2510c-geo_xst_12.dgn

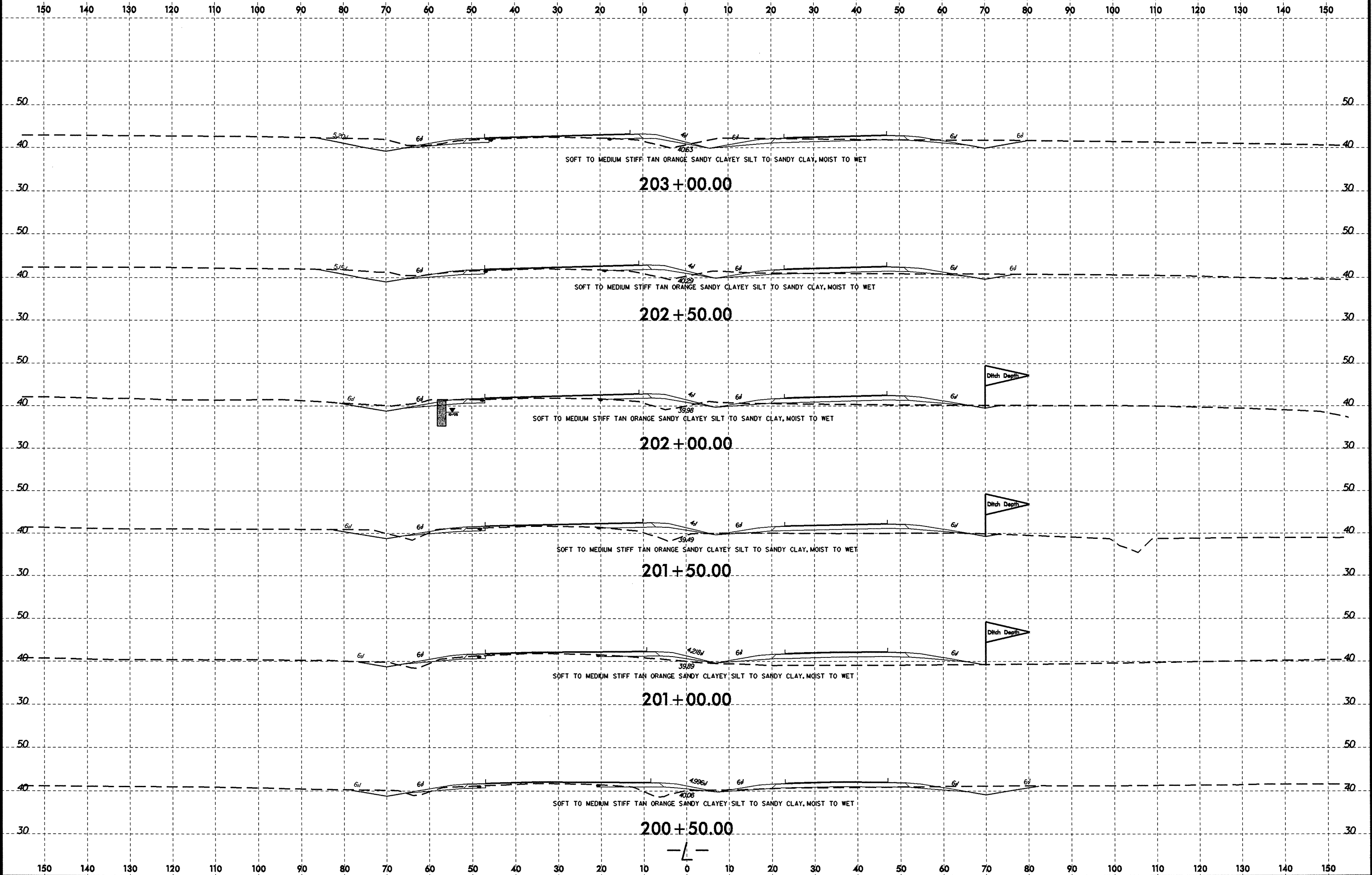
8/23/99

| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-35 | 35' RT | 200+00 | 0.00- 1.50 | A-4(1) | 28 | 4 | 2.6 | 54.6 | 31.2 | 11.6 | 100 | 99 | 63 | 15.0 | |
| SS-36 | 35' RT | 200+00 | 3.80- 5.30 | A-4(0) | 23 | 0 | 2.0 | 57.6 | 10.8 | 29.6 | 100 | 100 | 50 | | |
| SS-37 | 35' RT | 200+00 | 8.80- 10.30 | A-6(11) | 34 | 16 | 0.2 | 47.2 | 23.0 | 29.6 | 100 | 100 | 77 | | |

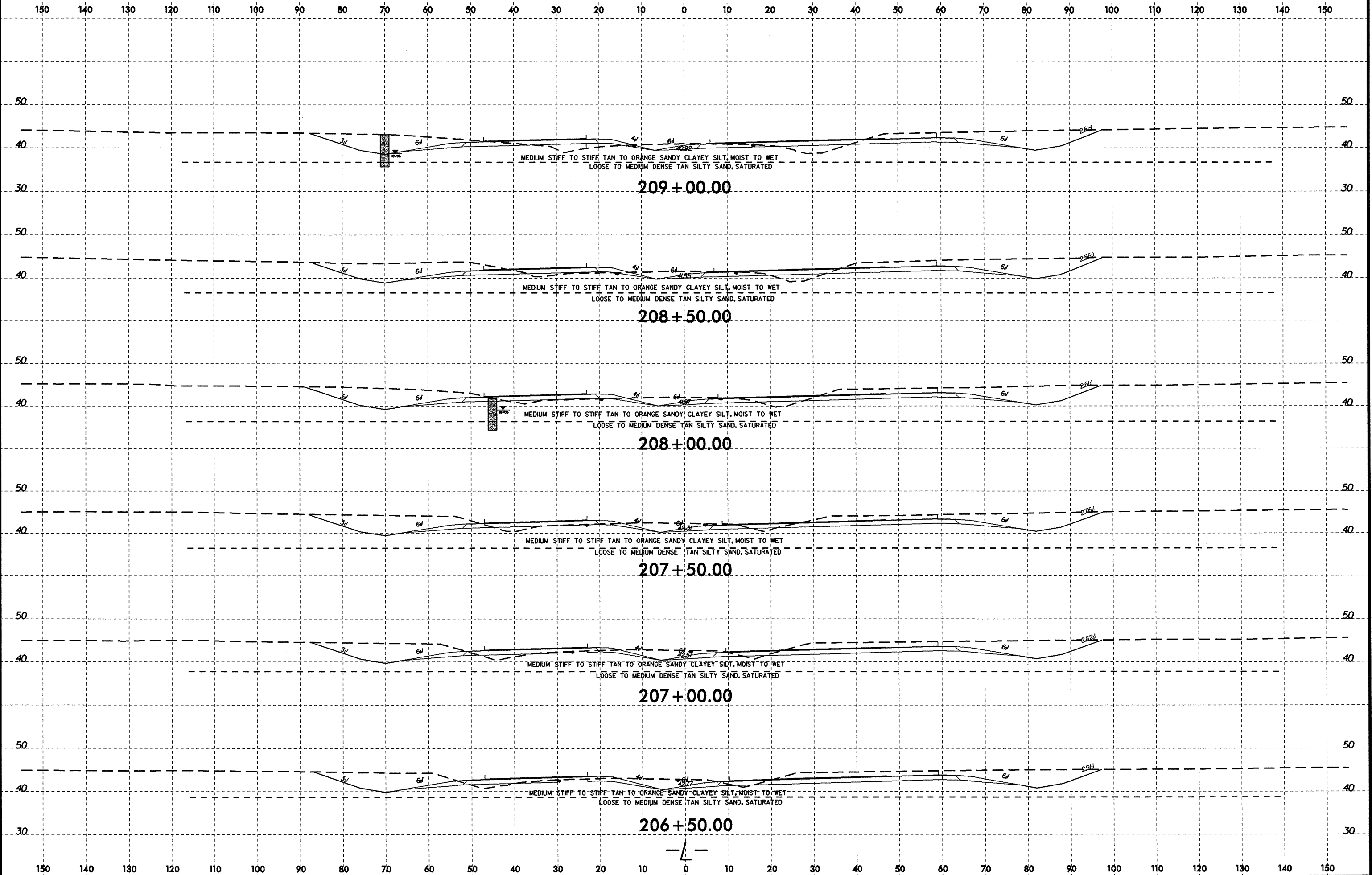


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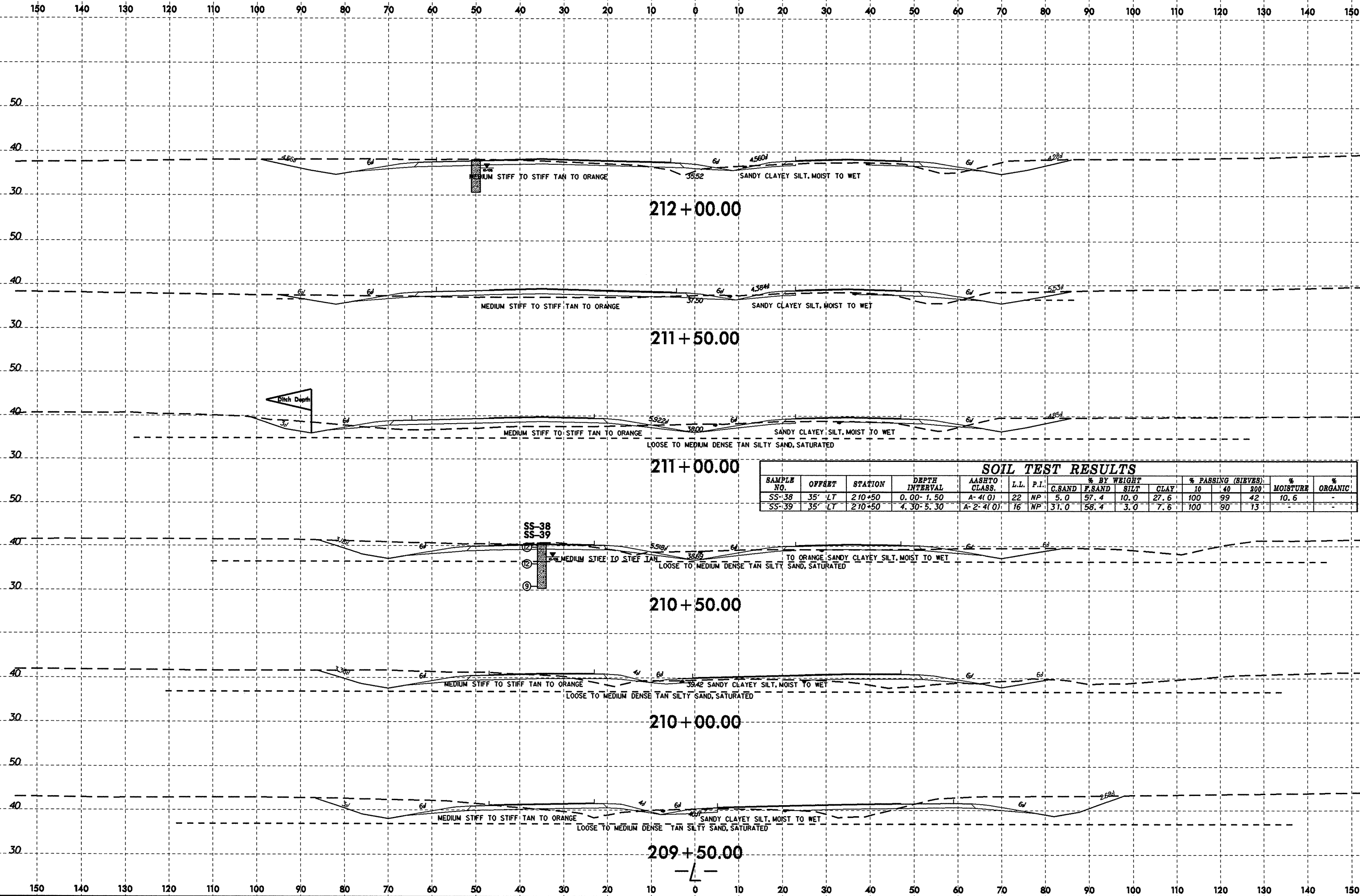
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8/23/99

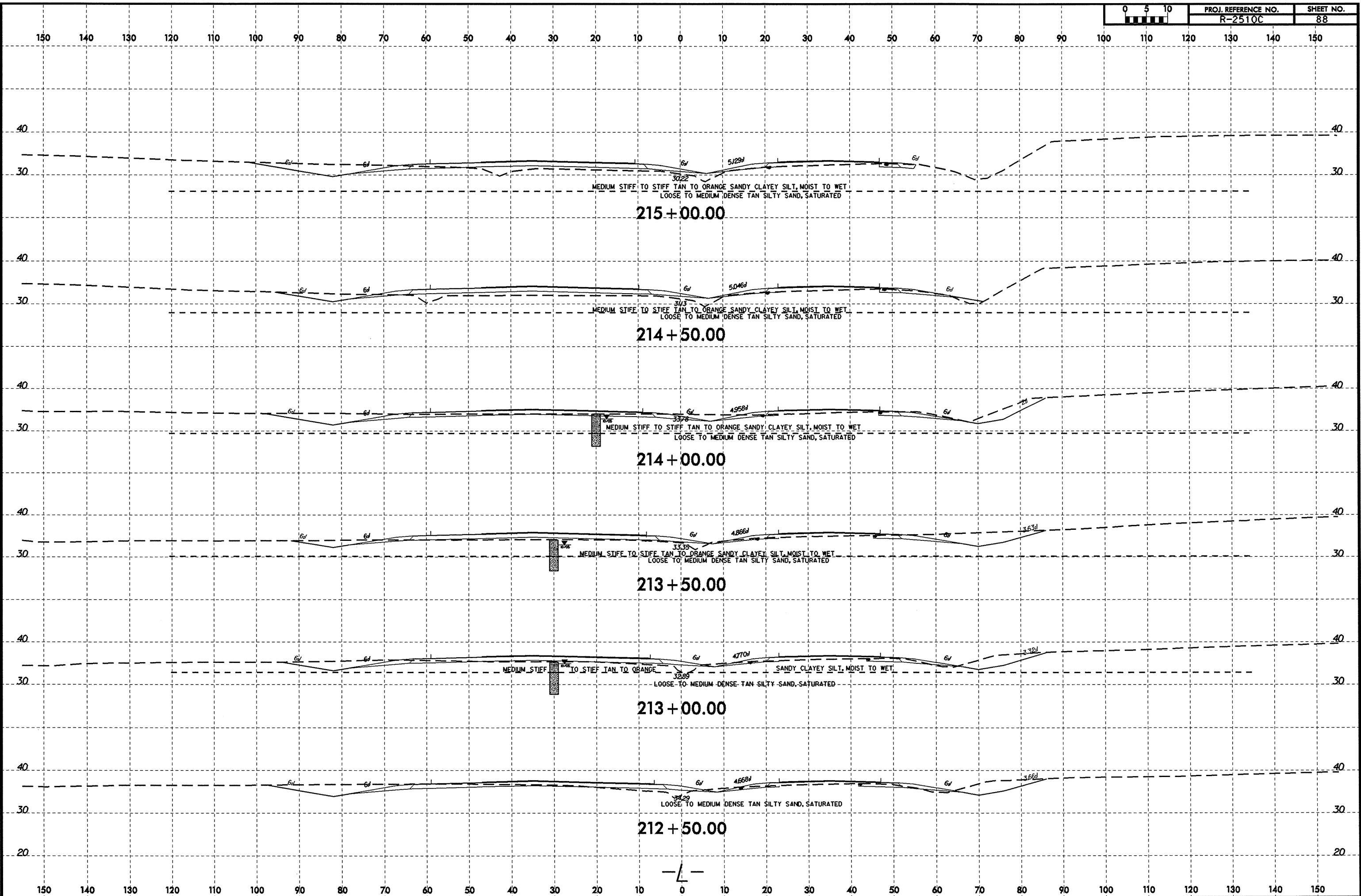


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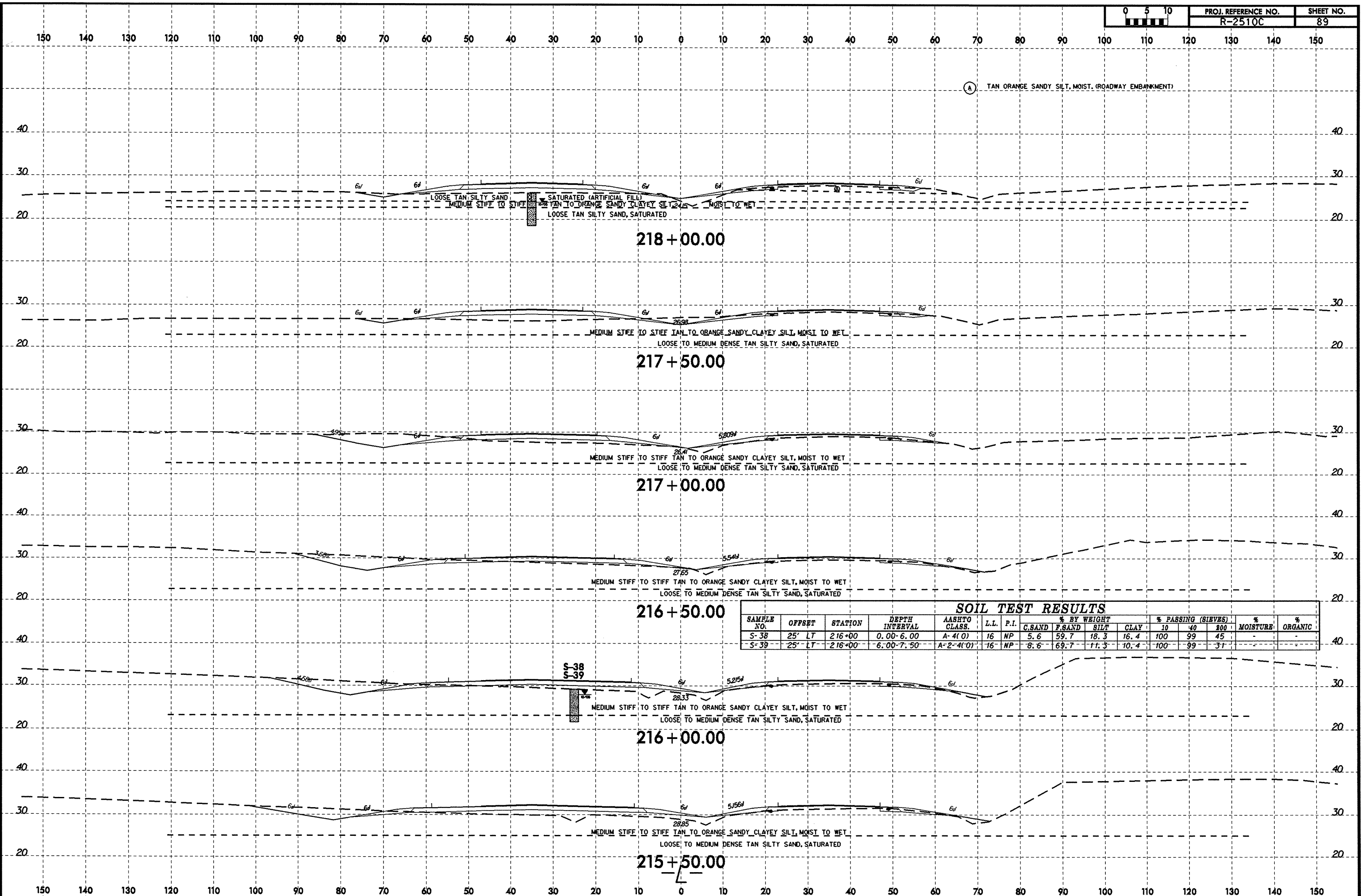


| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-38 | 35' LT | 210+50 | 0.00-1.50 | A-4(0) | 22 | NP | 5.0 | 57.4 | 10.0 | 27.6 | 100 | 99 | 42 | 10.6 | - |
| SS-39 | 35' LT | 210+50 | 4.30-5.30 | A-2-4(0) | 16 | NP | 31.0 | 58.4 | 3.0 | 7.6 | 100 | 90 | 13 | - | - |

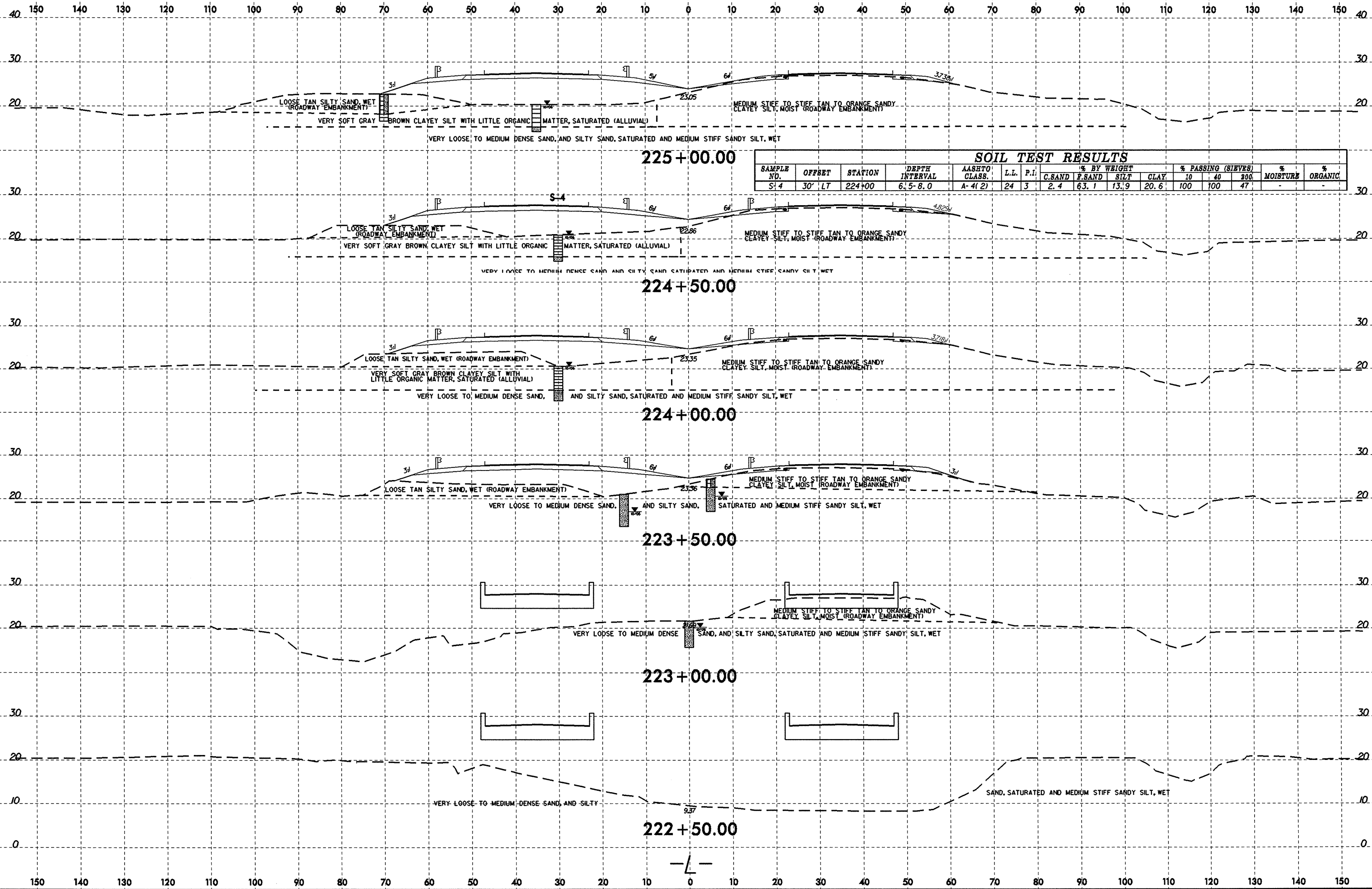
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8/23/99

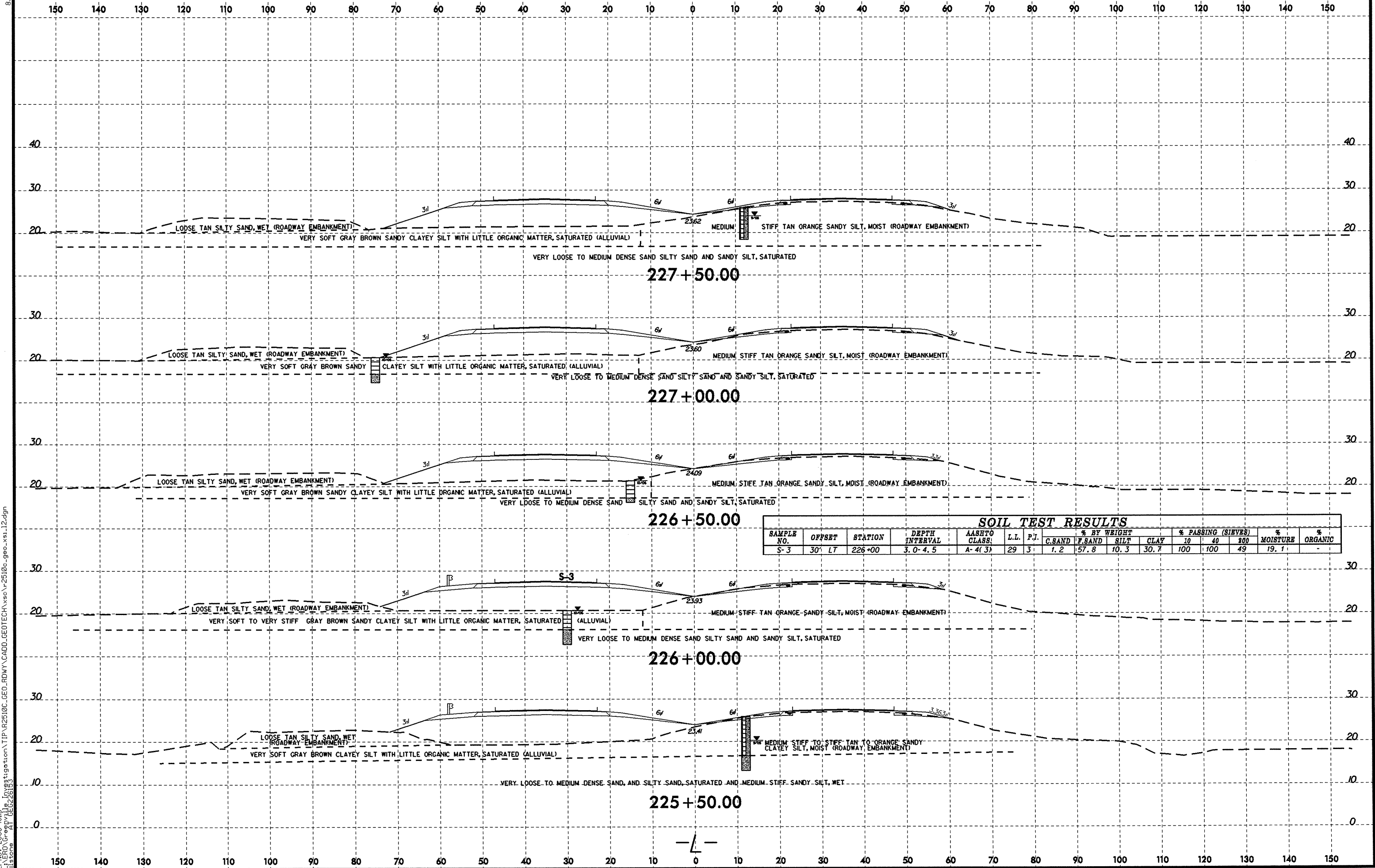


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8/23/99

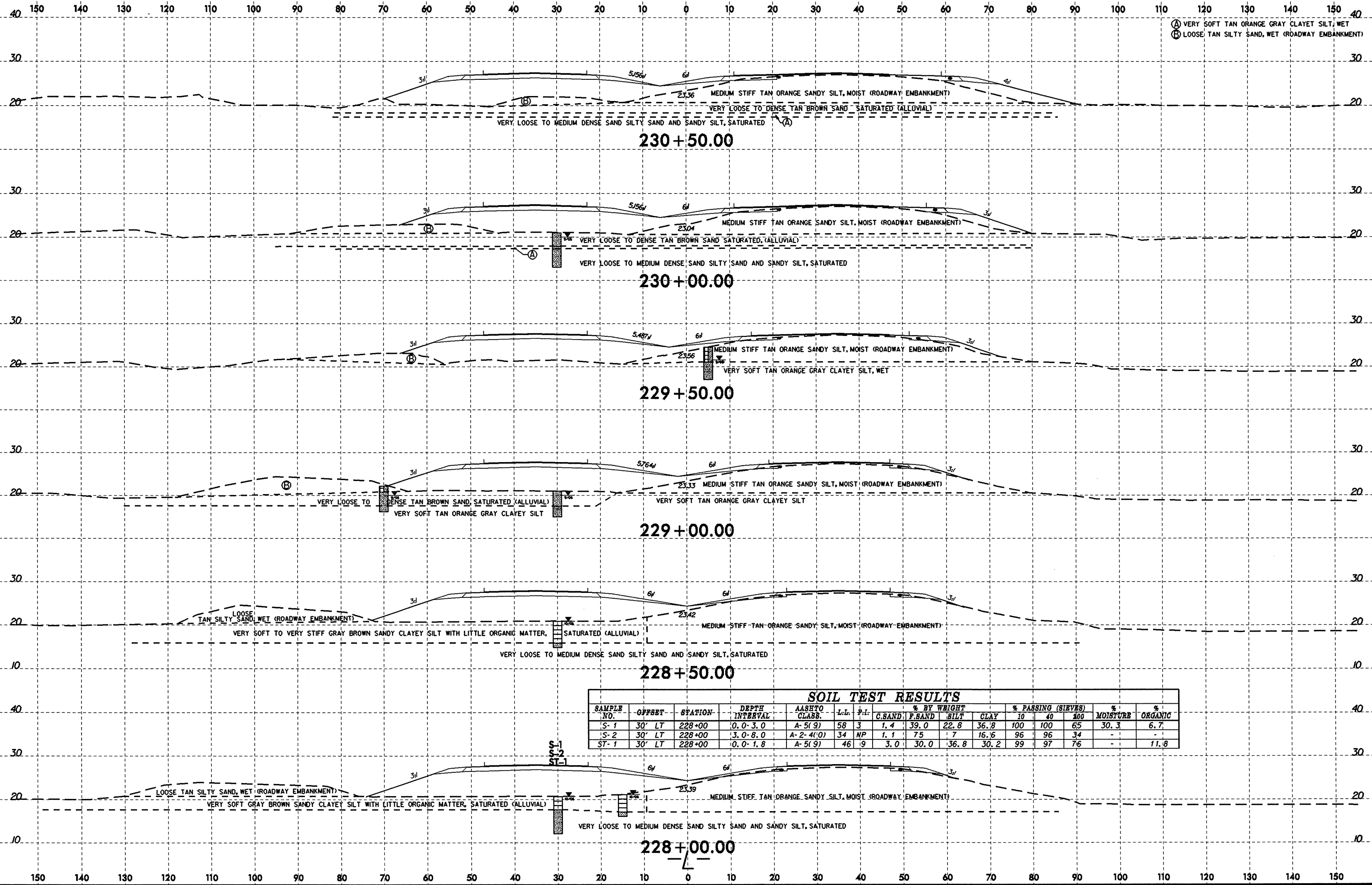


PROJ. REFERENCE NO. R-2510C SHEET NO. 92



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-3 | 30' LT | 226+00 | 3.0-4.5 | A-4(3) | 29 | 3 | 1.2 | 57.8 | 10.3 | 30.7 | 100 | 100 | 49 | 19.1 | - |

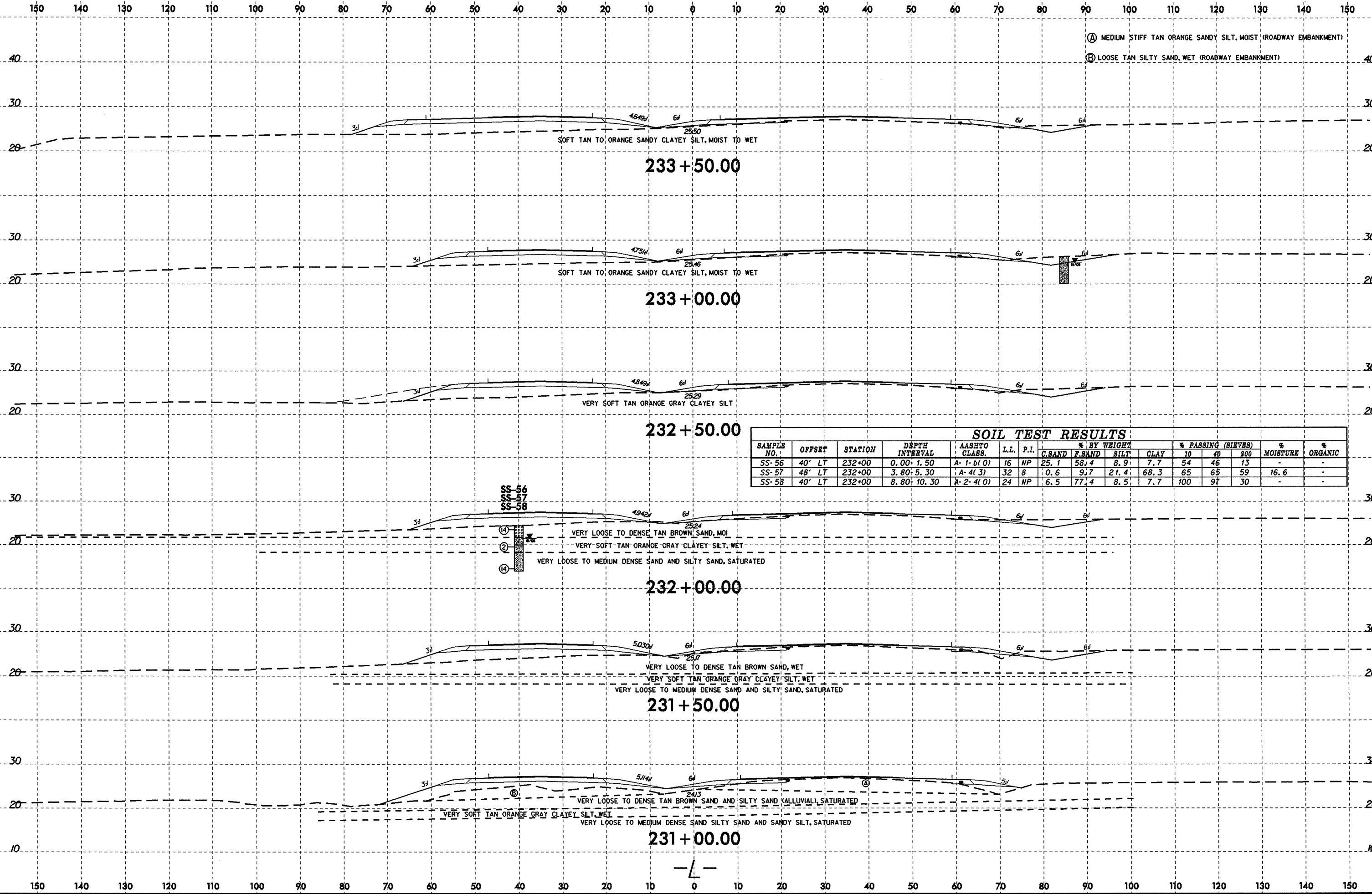
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SOIL TEST RESULTS

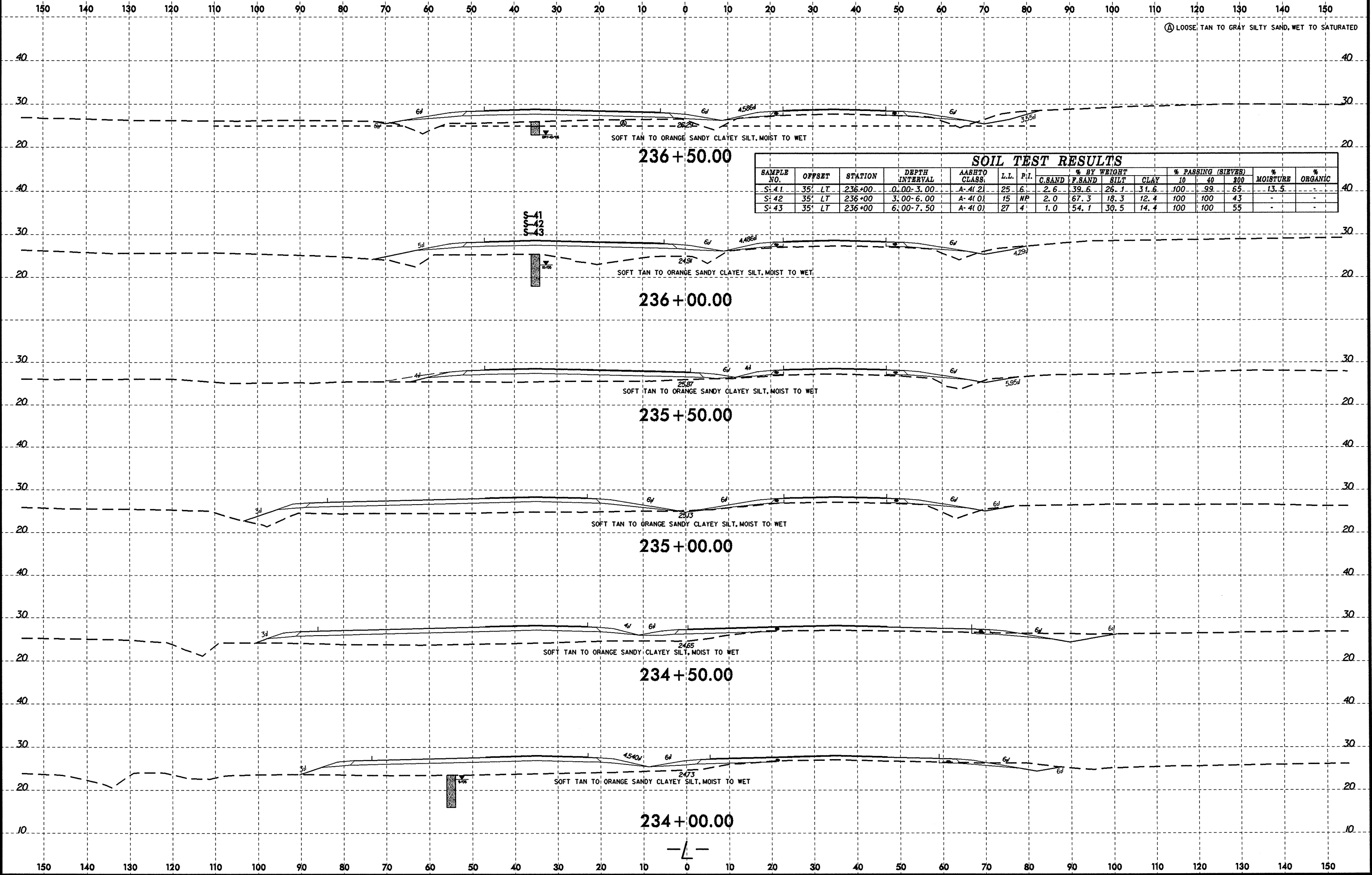
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.L. | % BY WEIGHT | | | % PASSING (SIEVES) | | | MOISTURE % | % ORGANIC | |
|------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|--------------------|-----|-----|------------|-----------|------|
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | | | 200 |
| S-1 | 30' LT | 228+00 | 0.0-3.0 | A-5(9) | 58 | 3 | 1.4 | 39.0 | 22.8 | 36.8 | 100 | 100 | 65 | 30.3 | 6.7 |
| S-2 | 30' LT | 228+00 | 3.0-8.0 | A-2-4(0) | 34 | NP | 1.1 | 7.5 | 7 | 16.6 | 96 | 96 | 34 | - | - |
| ST-1 | 30' LT | 228+00 | 0.0-1.8 | A-5(9) | 46 | 19 | 3.0 | 30.0 | 36.8 | 30.2 | 99 | 97 | 76 | - | 11.8 |

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 21-NOV-2006 10:44
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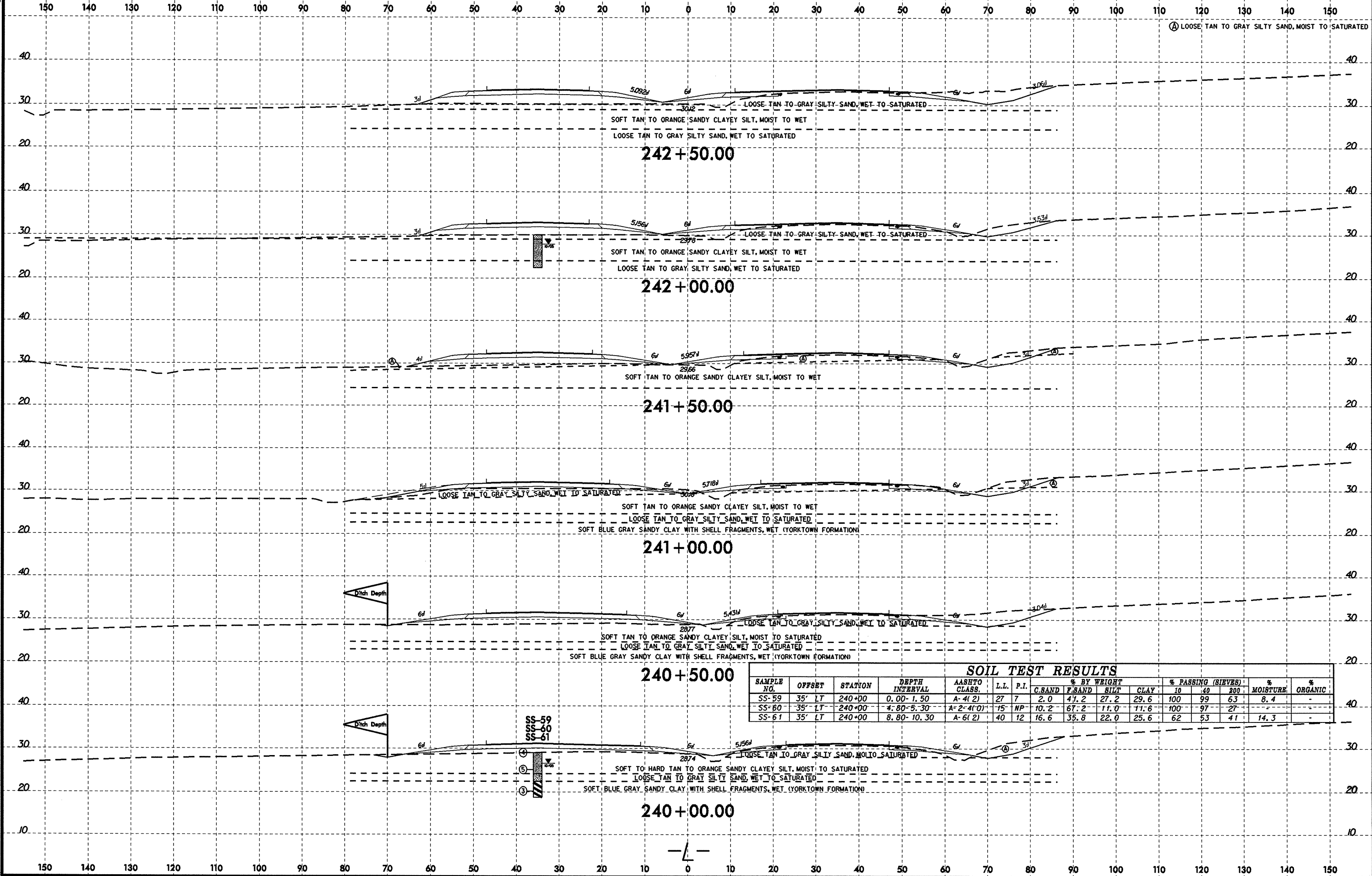
- (A) MEDIUM STIFF TAN ORANGE SANDY SILT, MOIST (ROADWAY EMBANKMENT)
- (B) LOOSE TAN SILTY SAND, WET (ROADWAY EMBANKMENT)

8/23/99
 21-NOV-2006 10:45
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 listone AT 060226183



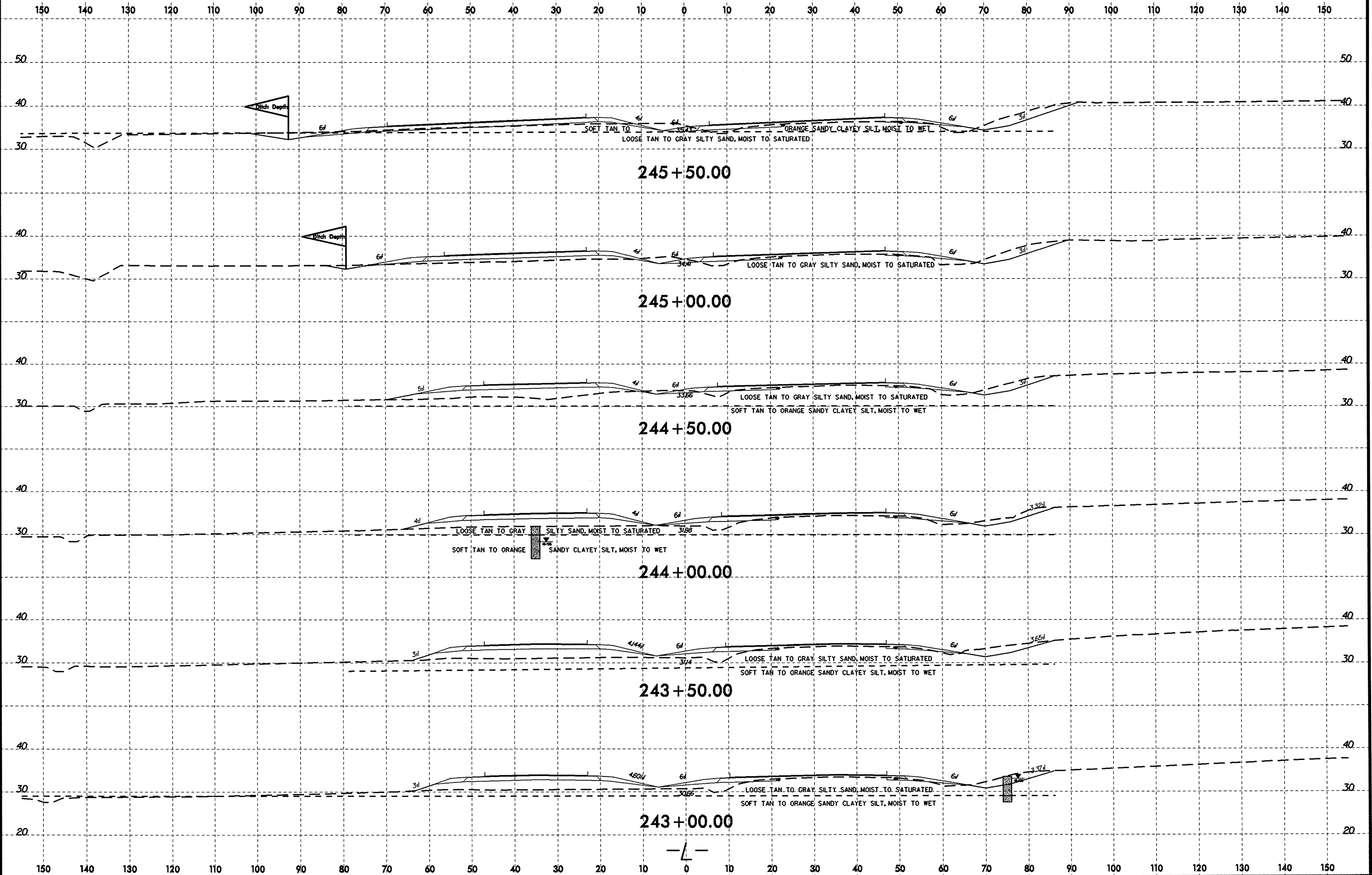
| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.BAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| S-41 | 35' LT | 236+00 | 0.00-3.00 | A-4(2) | 25 | 6 | 2.6 | 59.6 | 26.1 | 31.6 | 100 | 99 | 65 | 13.5 | - |
| S-42 | 35' LT | 236+00 | 3.00-6.00 | A-4(0) | 15 | NP | 2.0 | 67.3 | 18.3 | 12.4 | 100 | 100 | 43 | - | - |
| S-43 | 35' LT | 236+00 | 6.00-7.50 | A-4(0) | 27 | 4 | 1.0 | 54.1 | 30.5 | 14.4 | 100 | 100 | 55 | - | - |

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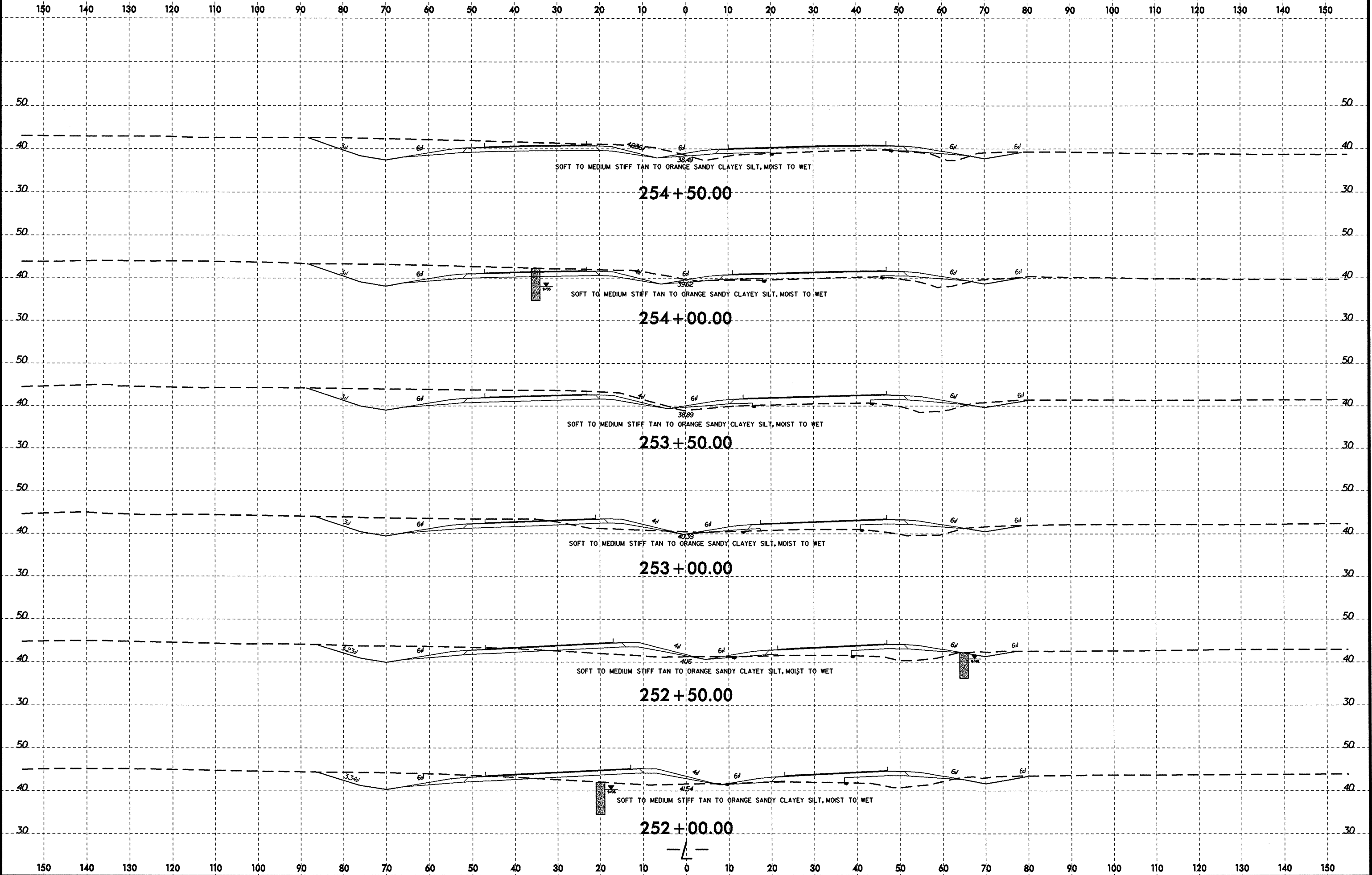


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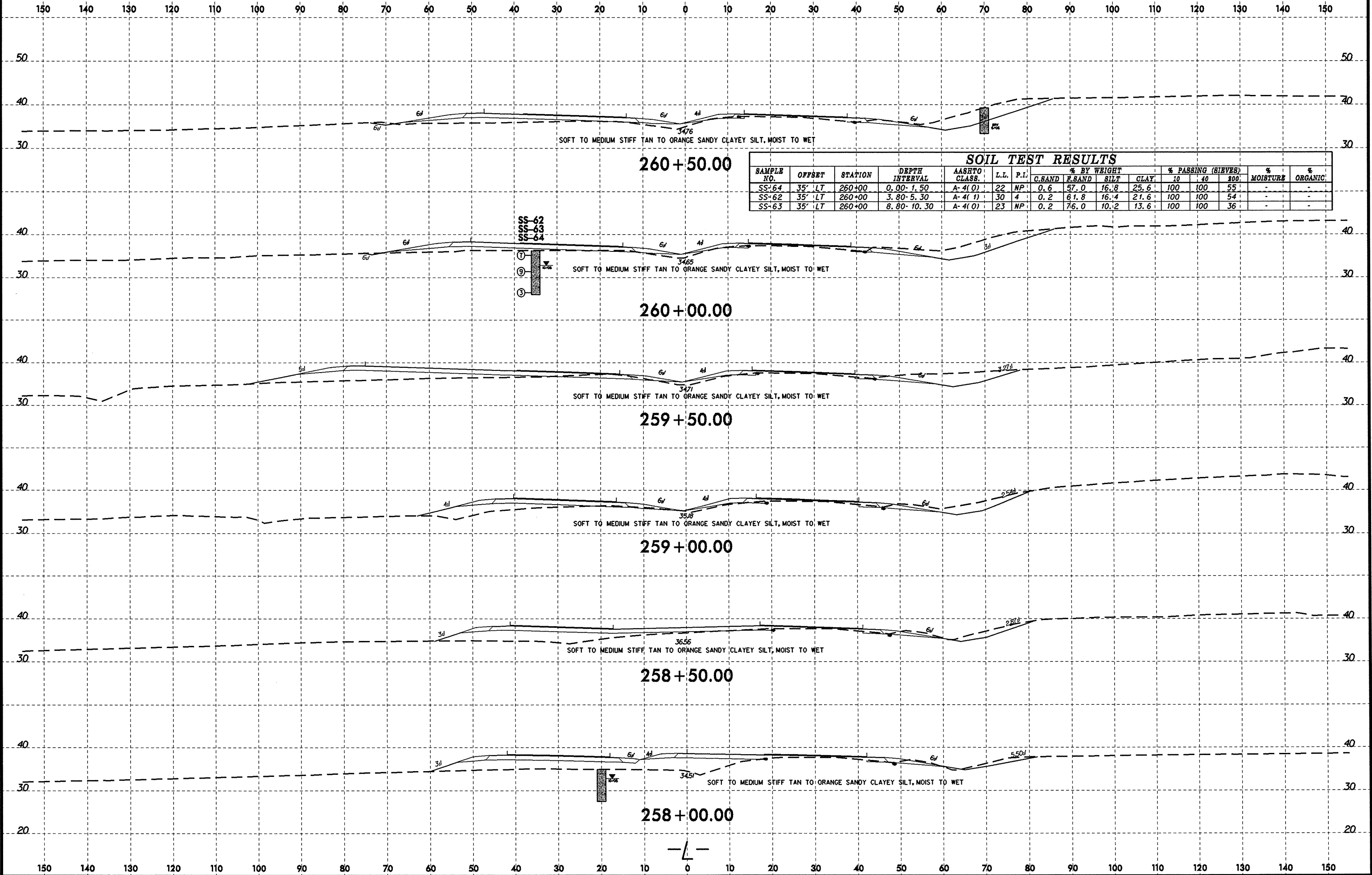


8/23/99



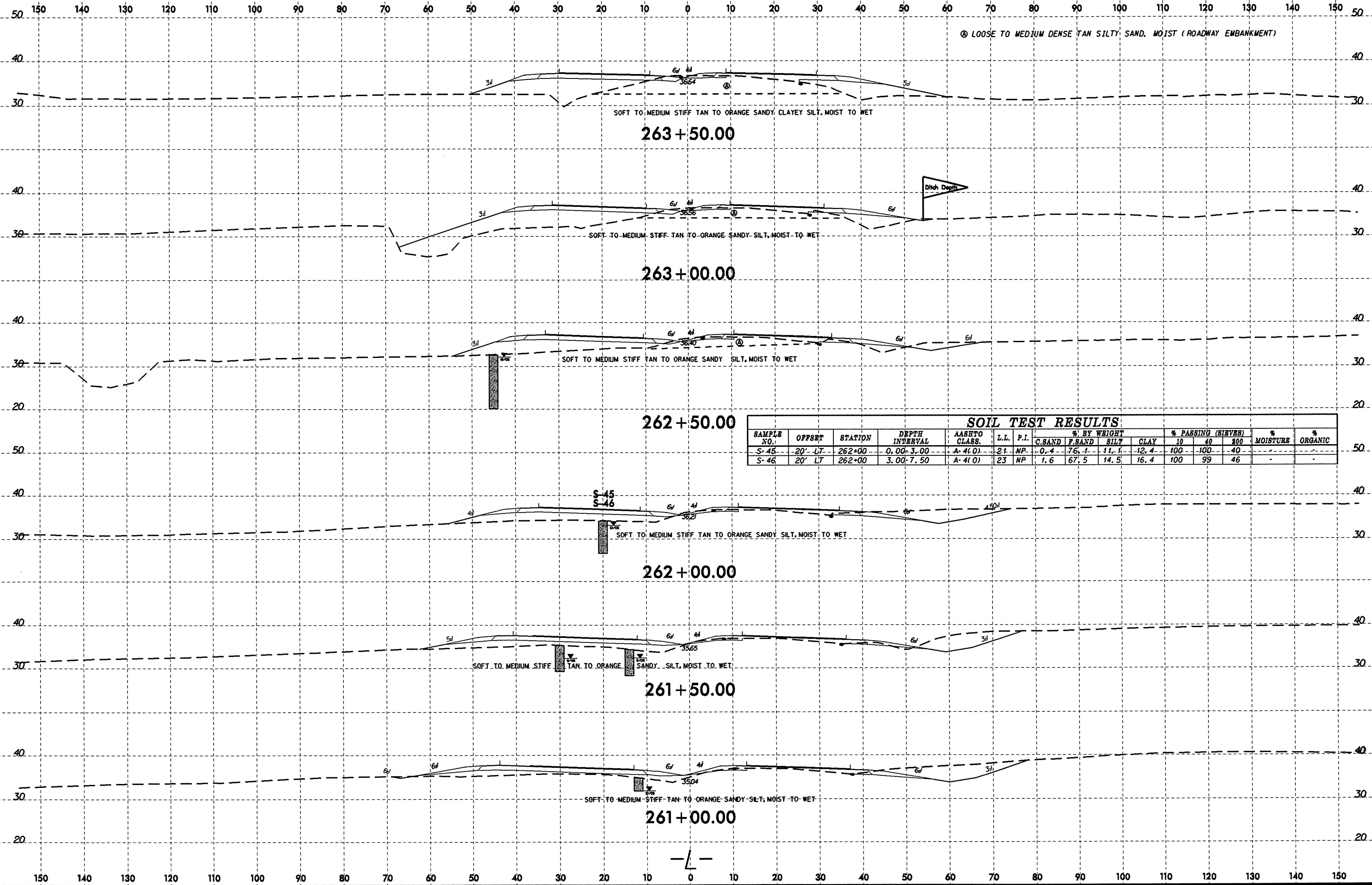
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8/23/99



| SOIL TEST RESULTS | | | | | | | | | | | | | | | |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|------|------|--------------------|-----|-----|------------|-----------|
| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.L. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
| | | | | | | | C.SAND | F.SAND | SILT | CLAY | 10 | 40 | 200 | | |
| SS-64 | 35' LT | 260+00 | 0.00-1.50 | A-4(0) | 22 | NP | 0.6 | 57.0 | 16.8 | 25.6 | 100 | 100 | 55 | - | - |
| SS-62 | 35' LT | 260+00 | 3.80-5.30 | A-4(1) | 30 | 4 | 0.2 | 61.8 | 16.4 | 21.6 | 100 | 100 | 54 | - | - |
| SS-63 | 35' LT | 260+00 | 8.80-10.30 | A-4(0) | 23 | NP | 0.2 | 76.0 | 10.2 | 13.6 | 100 | 100 | 36 | - | - |

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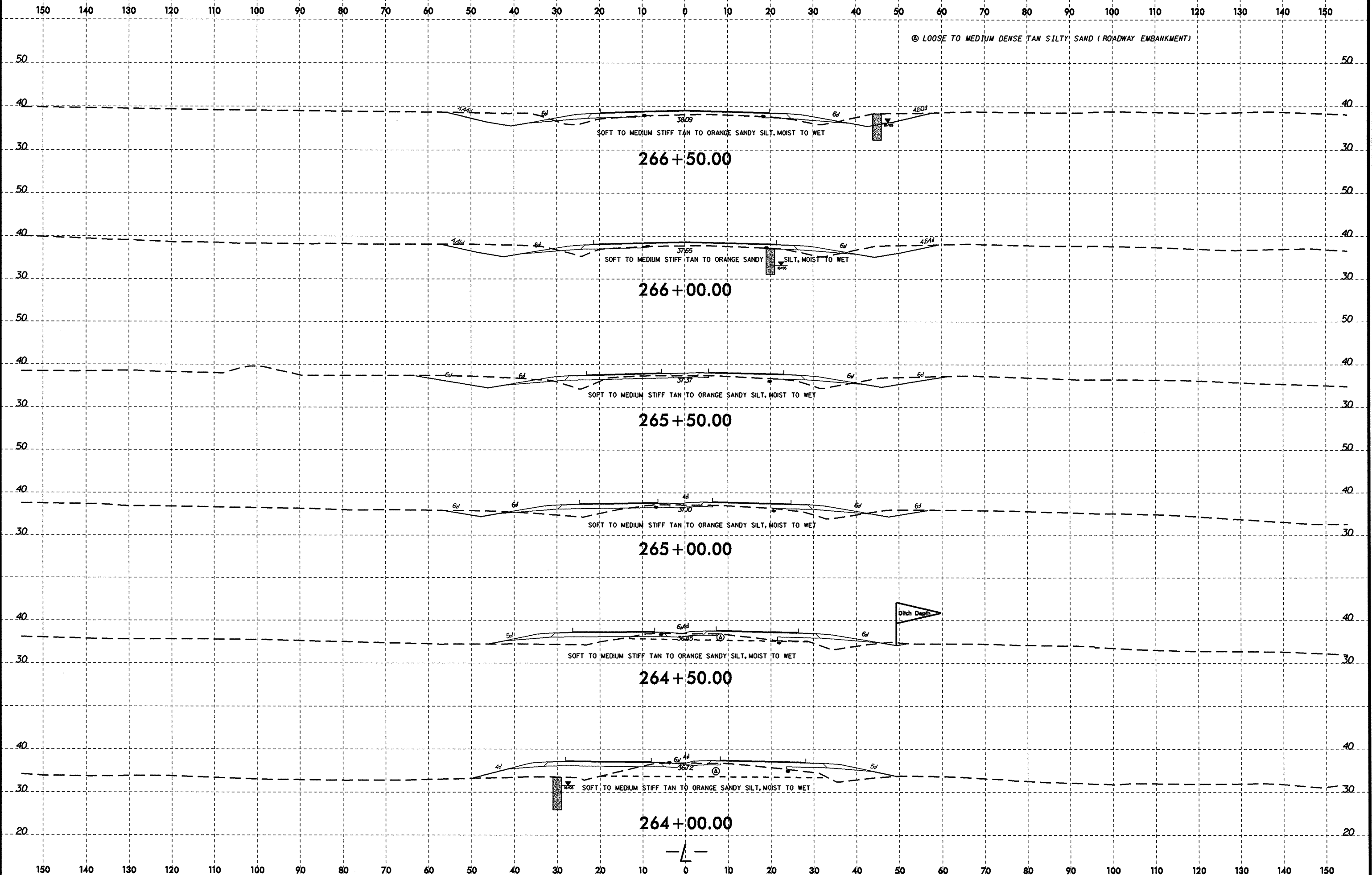


SOIL TEST RESULTS

| SAMPLE NO. | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT | | | | % PASSING (SIEVES) | | | % MOISTURE | % ORGANIC |
|------------|--------|---------|----------------|---------------|------|------|-------------|---------|------|------|--------------------|-----|----|------------|-----------|
| | | | | | | | C. SAND | F. SAND | SILT | CLAY | 10 | 40 | 80 | | |
| S-45 | 20' LT | 262+00 | 0.00-3.00 | A-4(0) | 21 | NP | 0.4 | 76.1 | 11.1 | 12.4 | 100 | 100 | 40 | - | - |
| S-46 | 20' LT | 262+00 | 3.00-7.50 | A-4(0) | 23 | NP | 1.6 | 67.5 | 14.5 | 16.4 | 100 | 99 | 46 | - | - |

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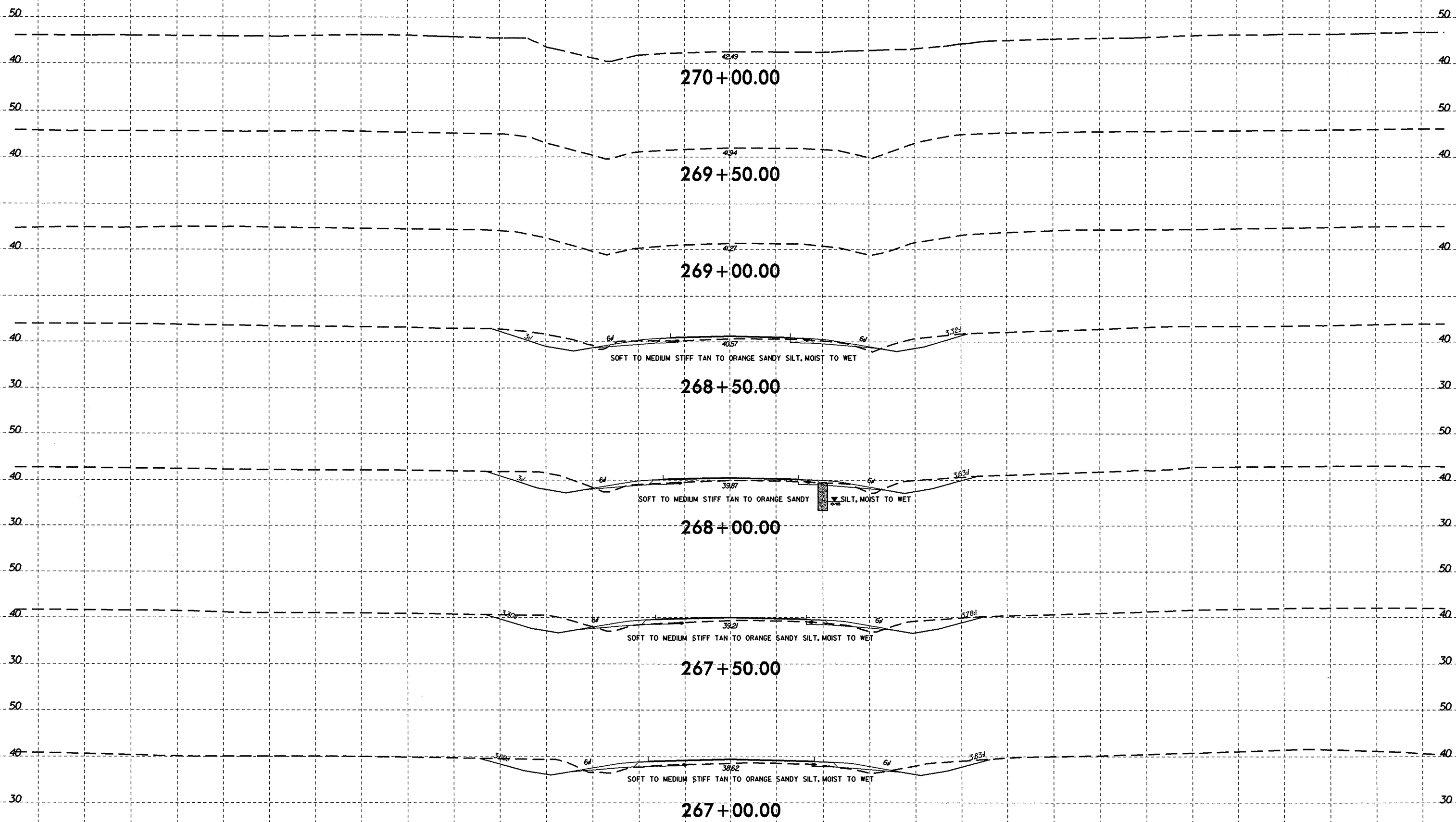
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| R-2510C | 105 |

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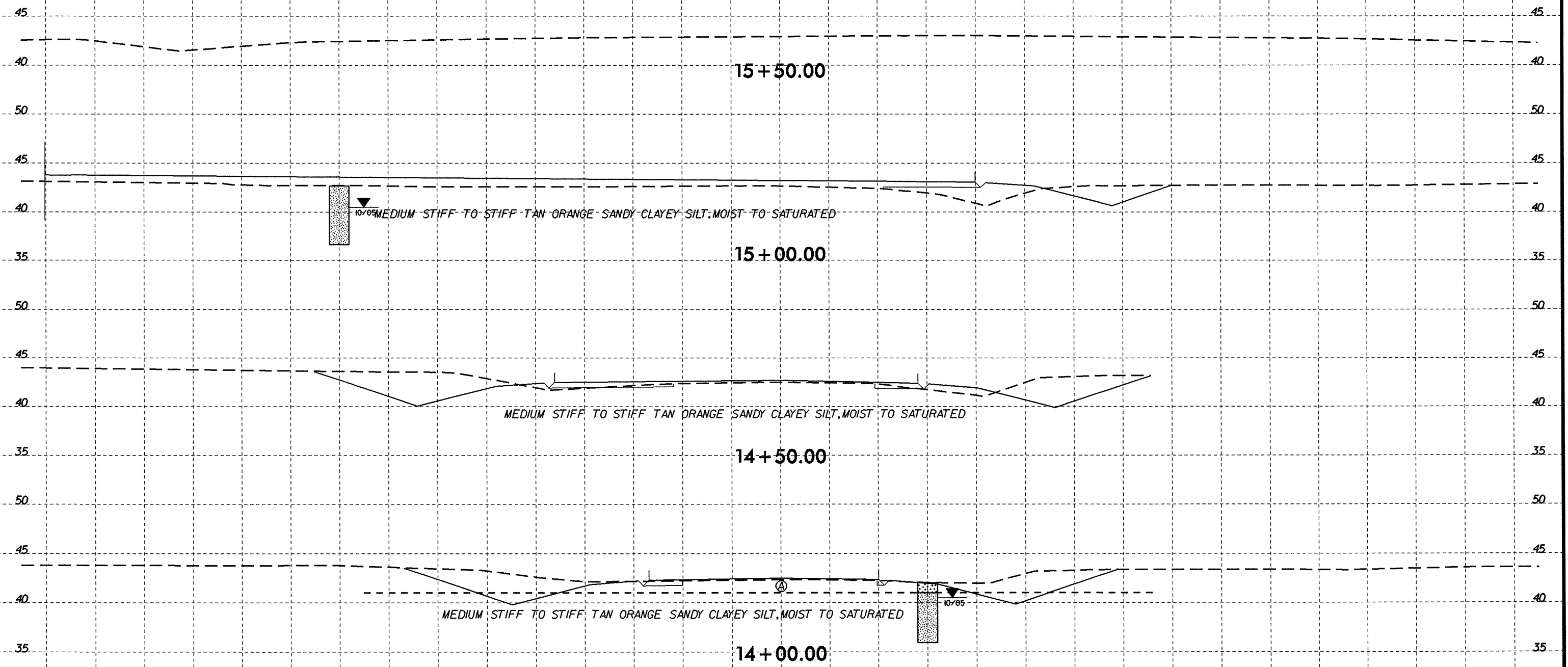
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8/23/99

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

Ⓐ LOOSE TO MEDIUM DENSE TAN ORANGE SILTY SAND WITH CLAY LAYERS, MOIST



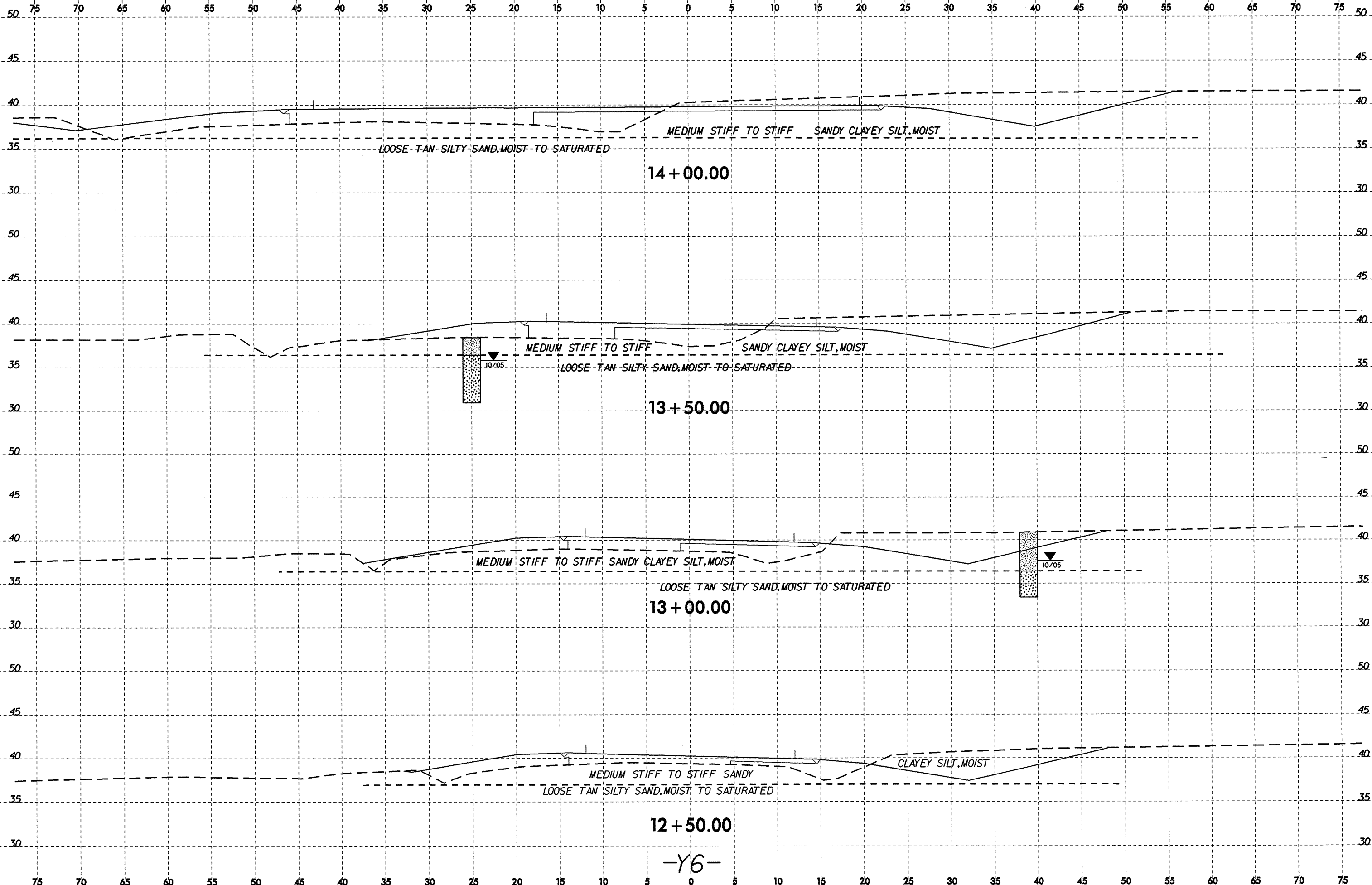
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| PROJ. REFERENCE NO. | SHEET NO. |
| R-2510C | 108 |



14+00.00

13+50.00

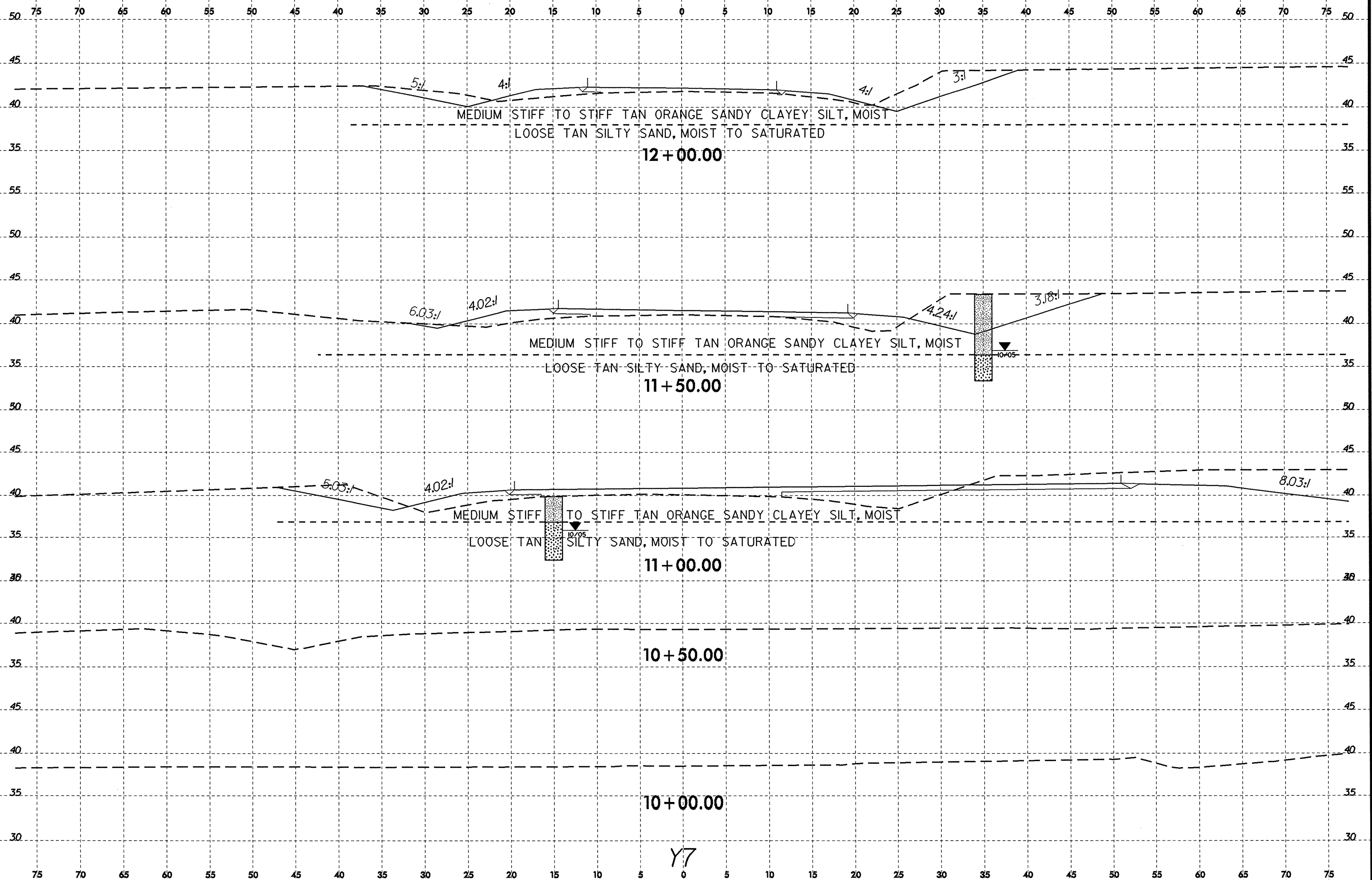
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12+50.00

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21-NOV-2006 08:07
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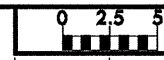
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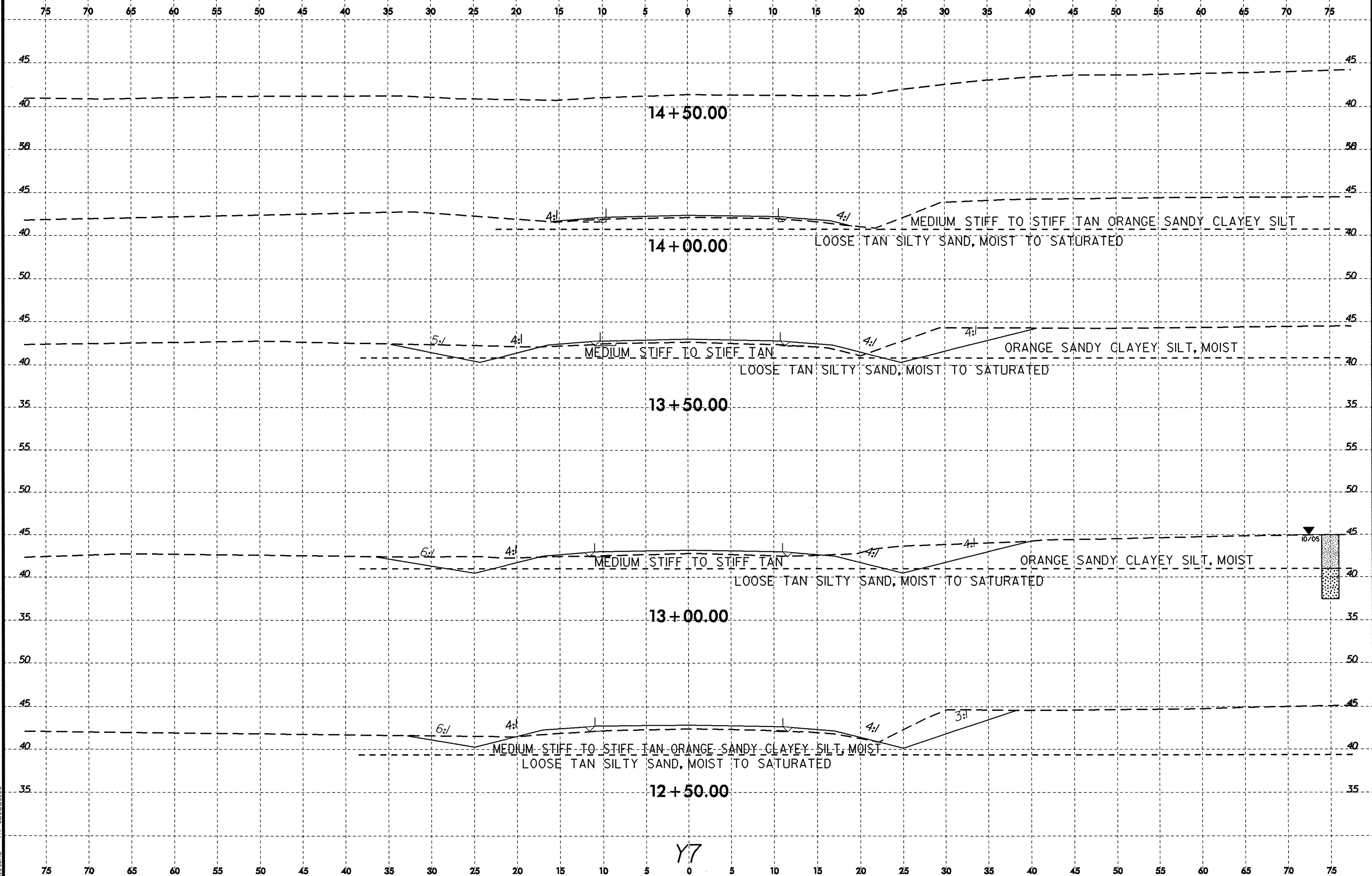
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Y7

8/23/99

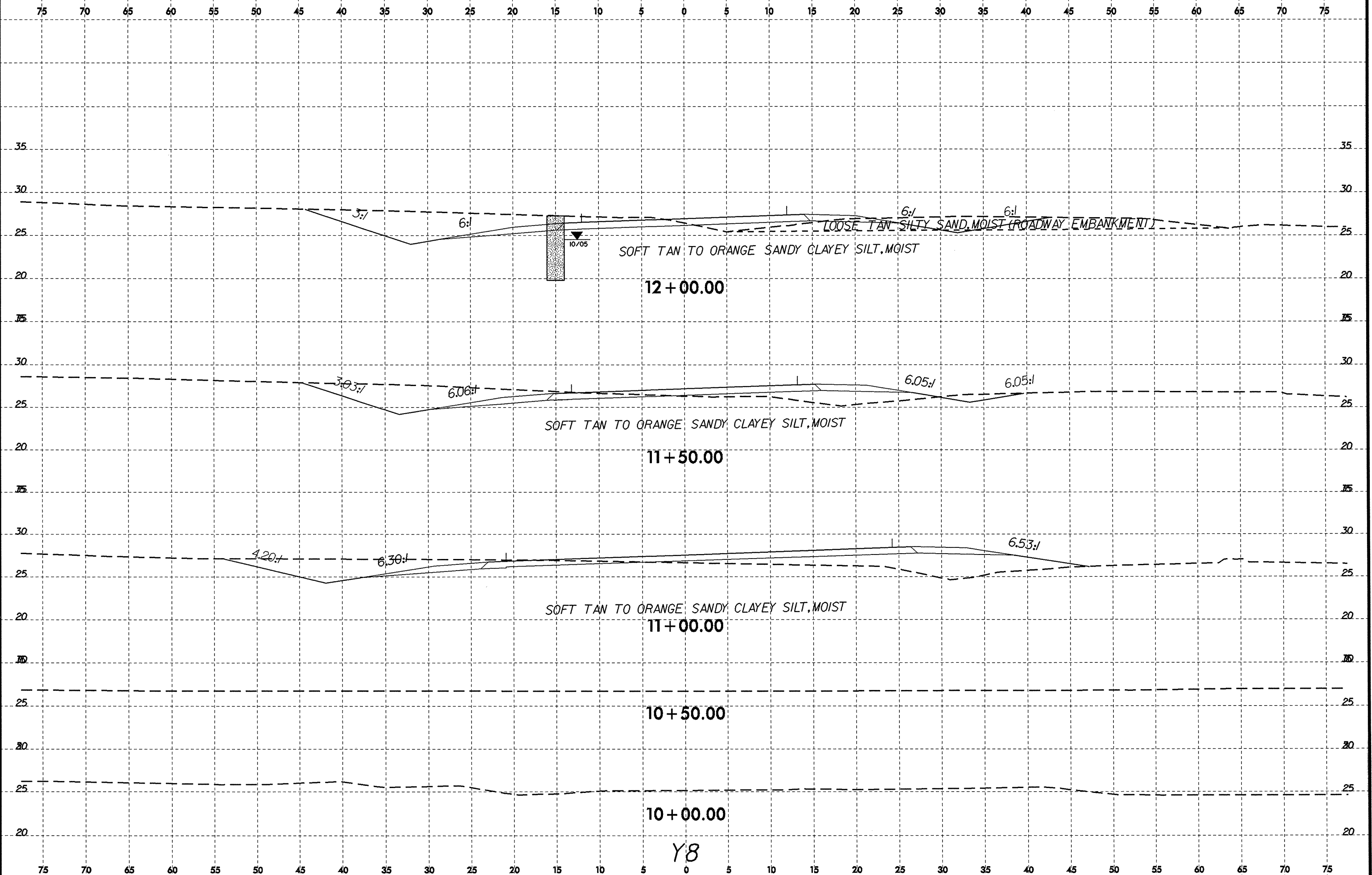


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8/23/99



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11 + 50.00

11 + 00.00

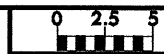
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10 + 00.00

Y8

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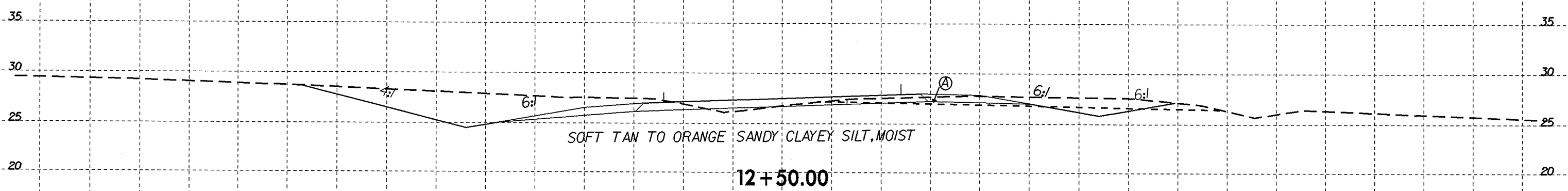
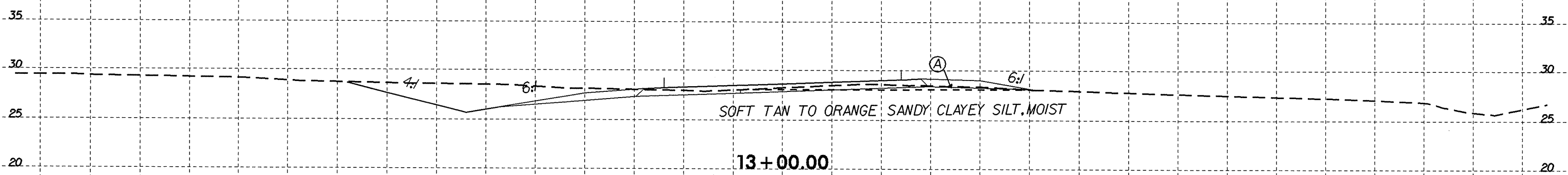
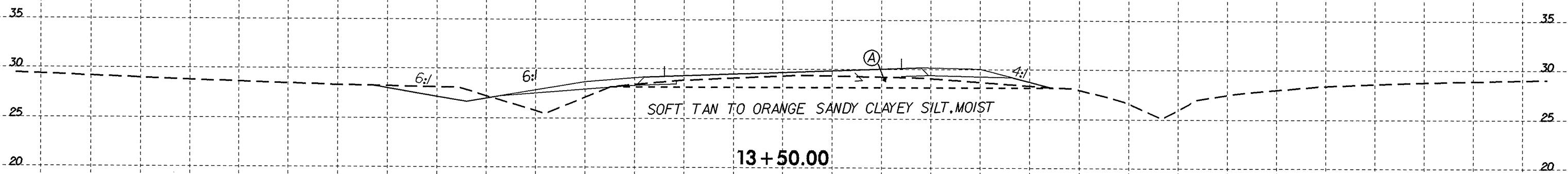
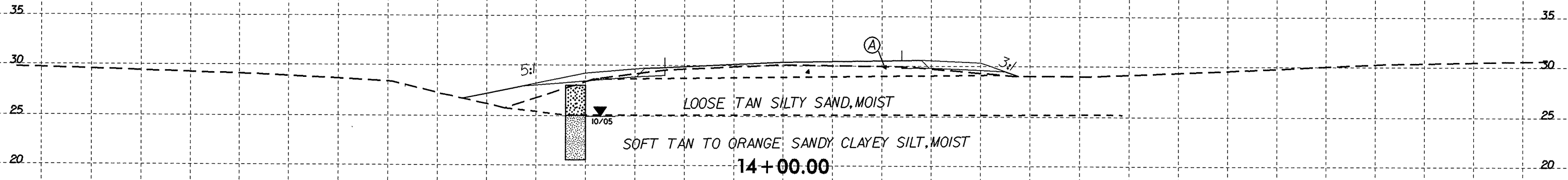
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| PROJ. REFERENCE NO. | SHEET NO. |
| R-2510C | 112 |

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

Ⓐ LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)



Y8

21-NOV-2006 10:53
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8/23/99
21-NOV-2006 10:43
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