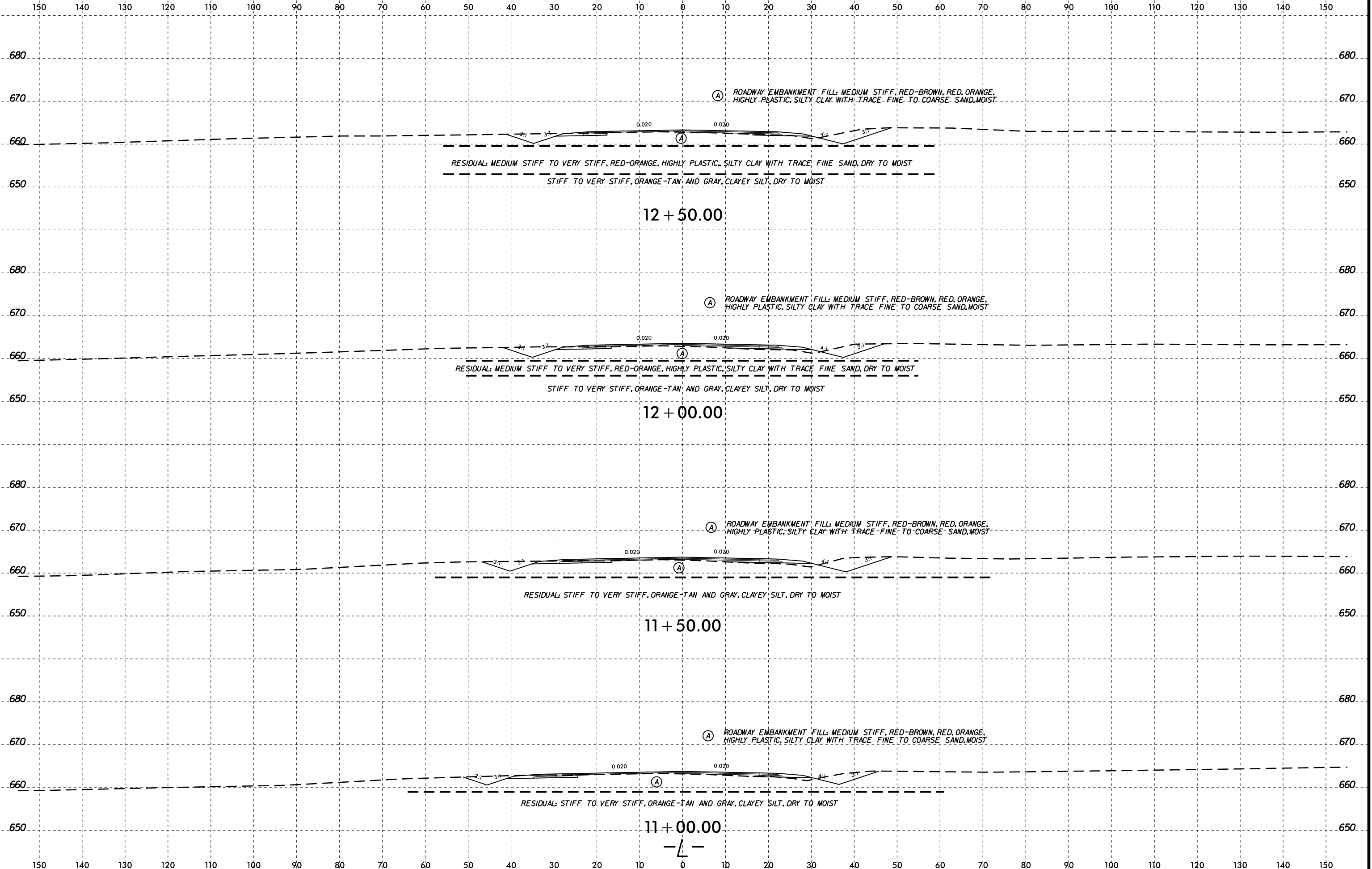


8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	85

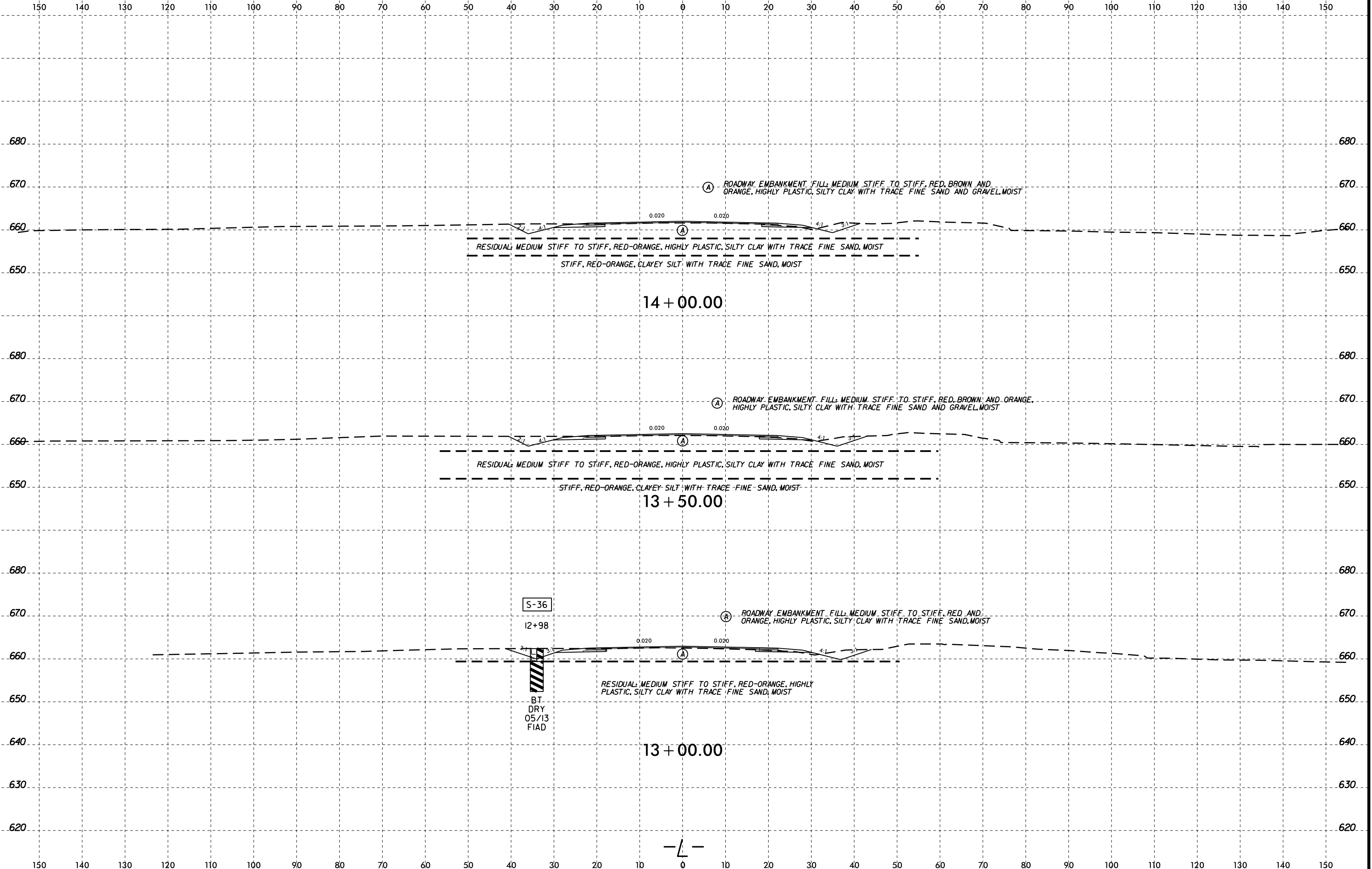


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 Color: 1671610

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	86



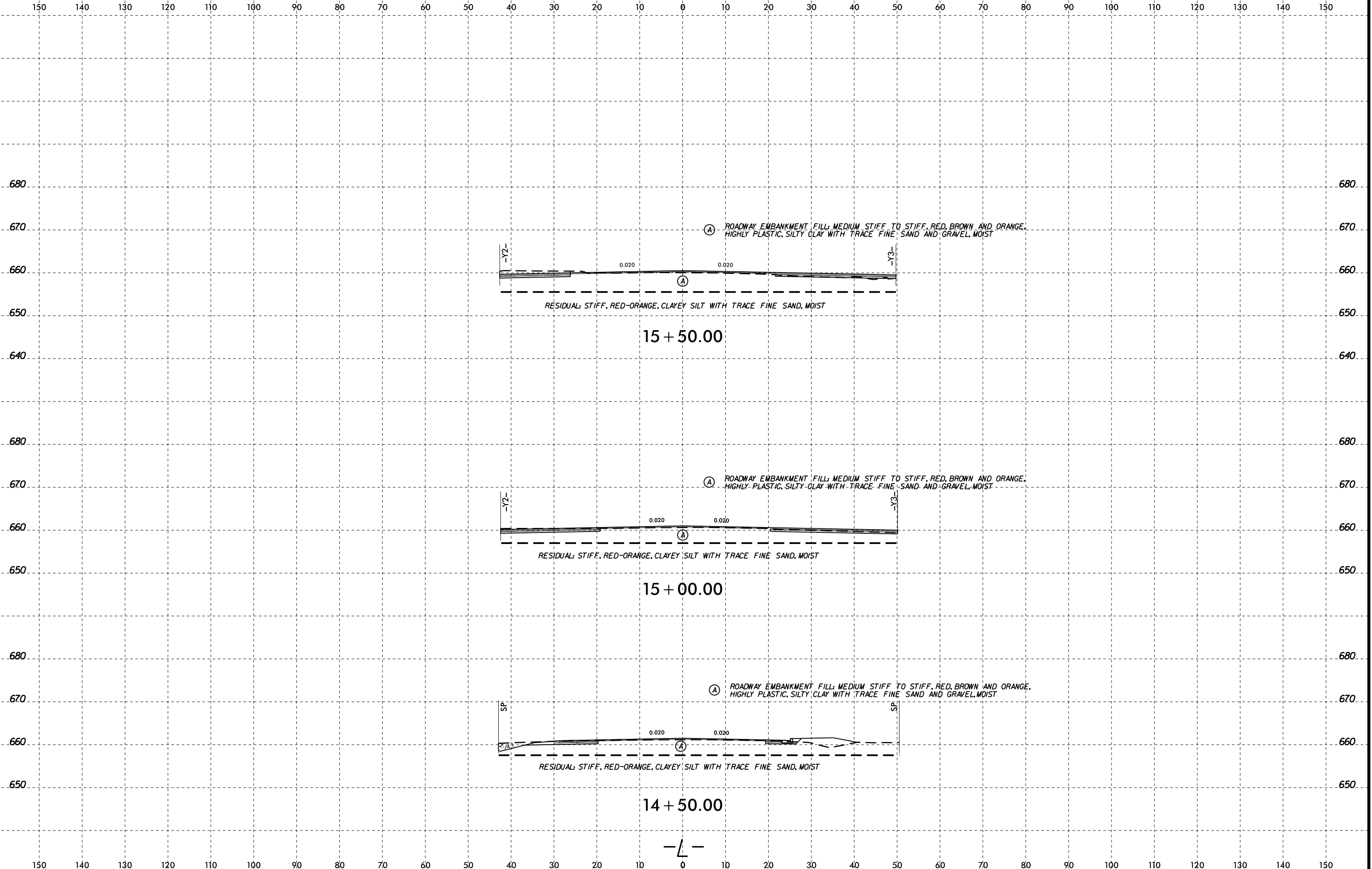
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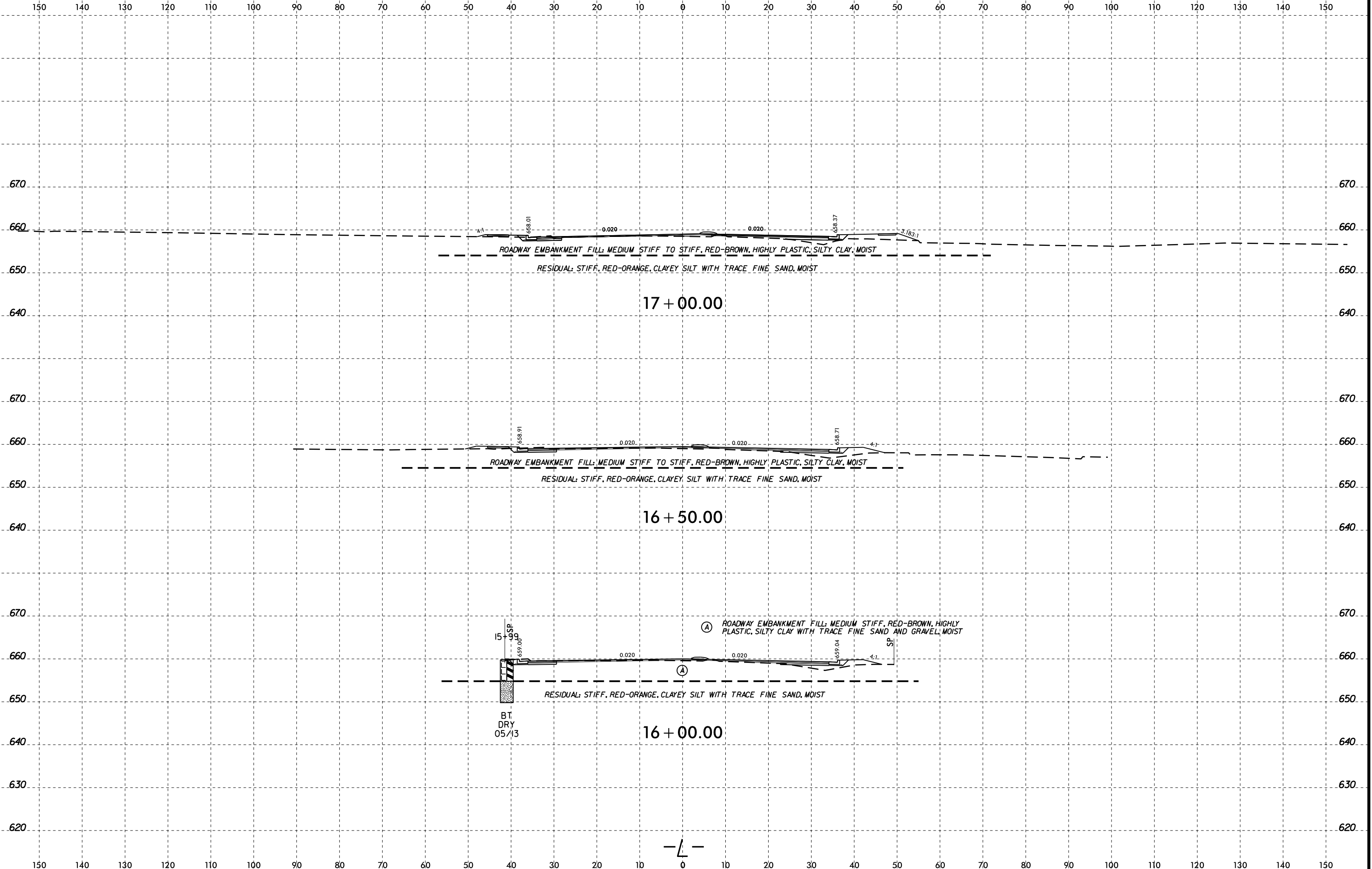
8/23/99



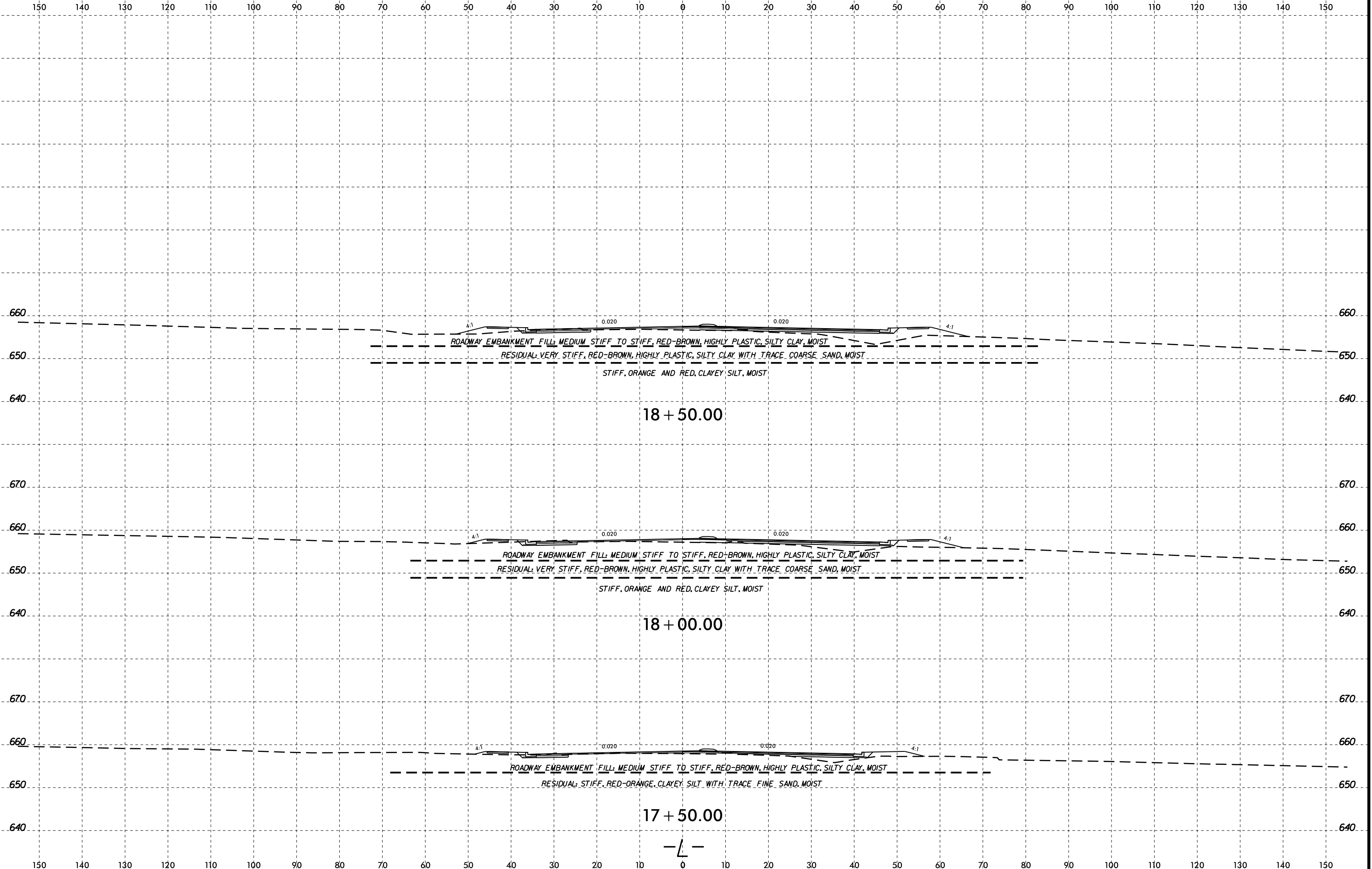
PROJ. REFERENCE NO.	SHEET NO.
U-3109A	87



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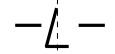
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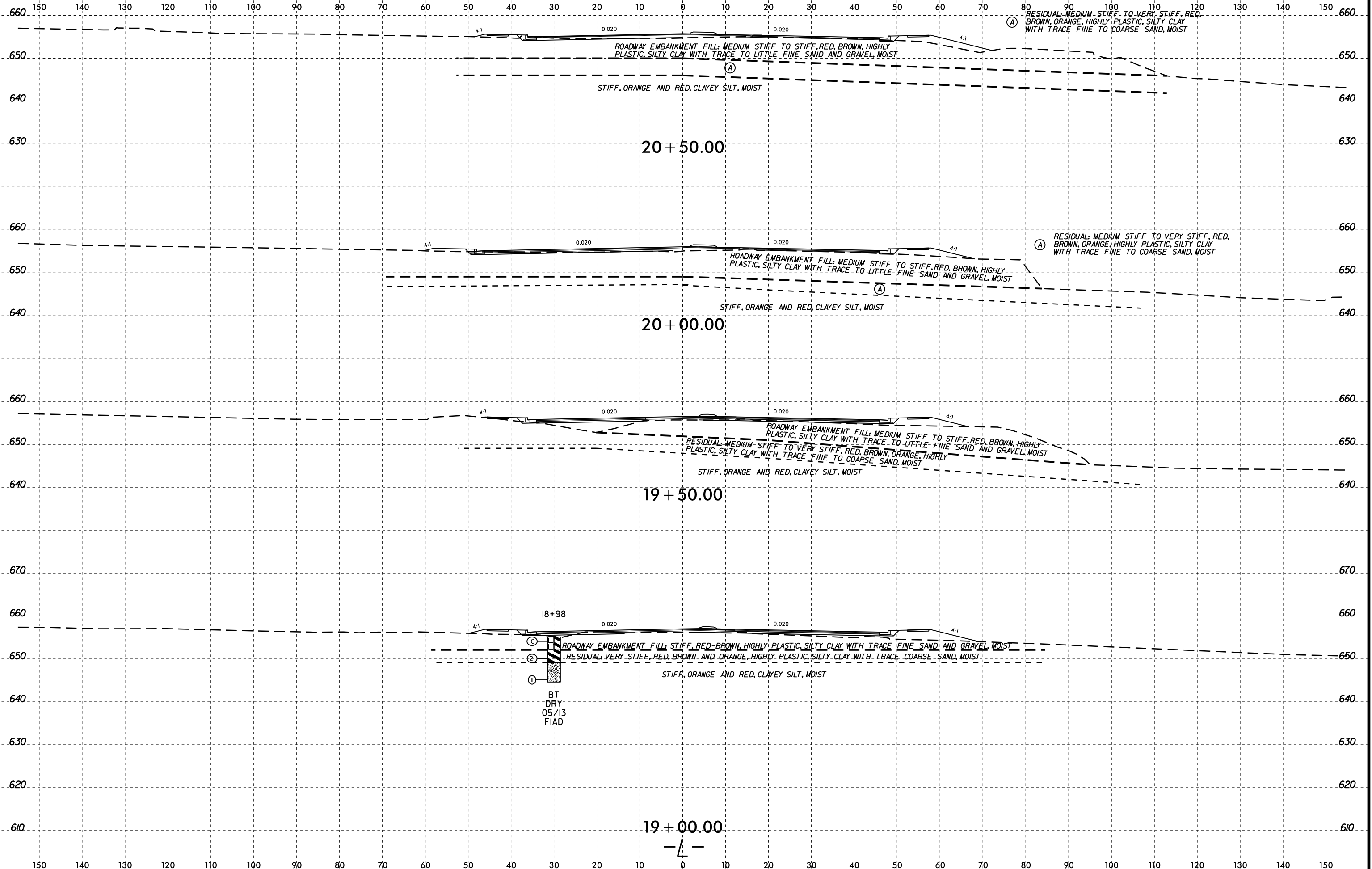
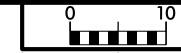
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18 + 00.00

17 + 50.00



8/23/99

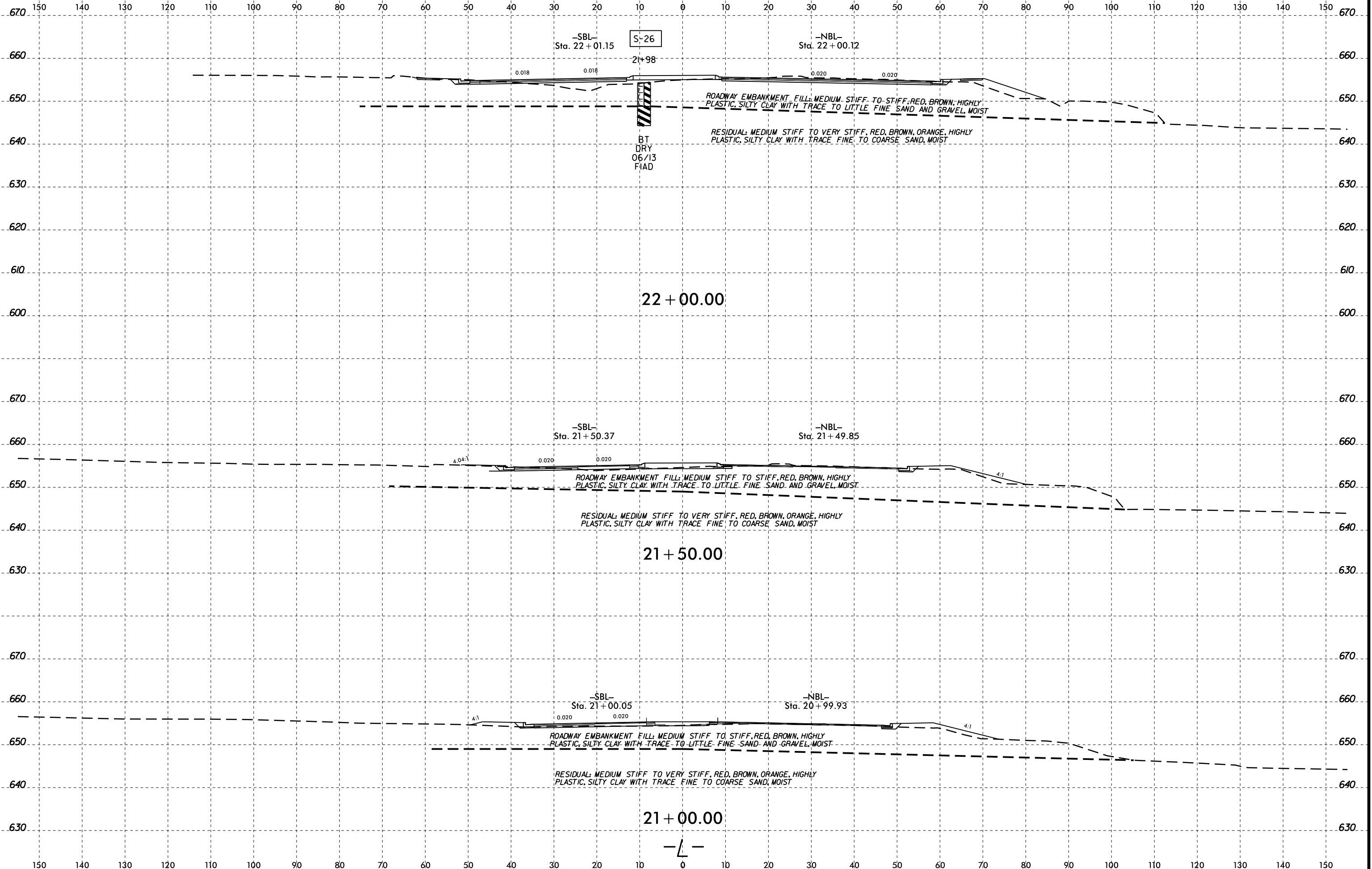


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	91

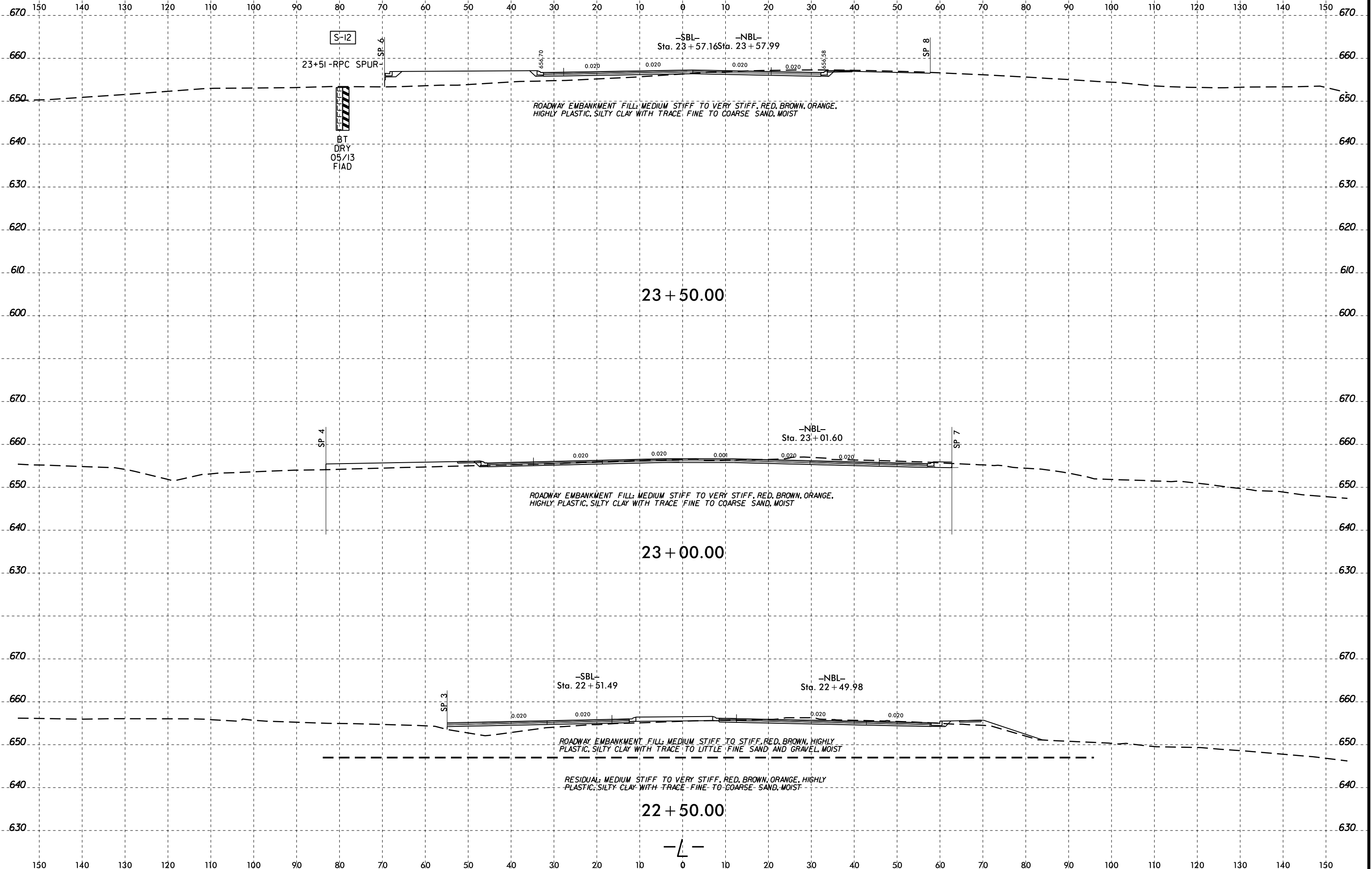


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8/23/99

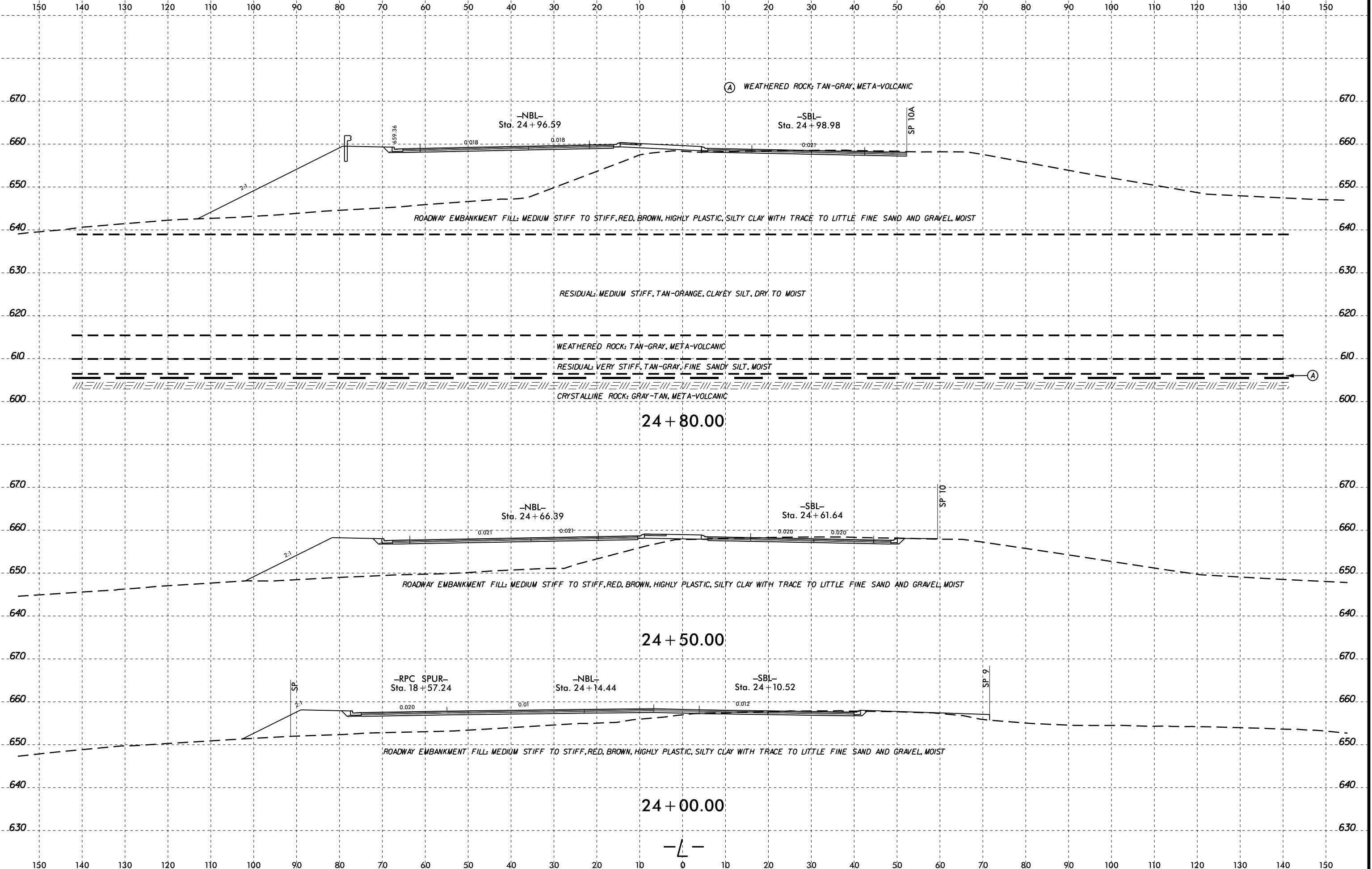


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	92



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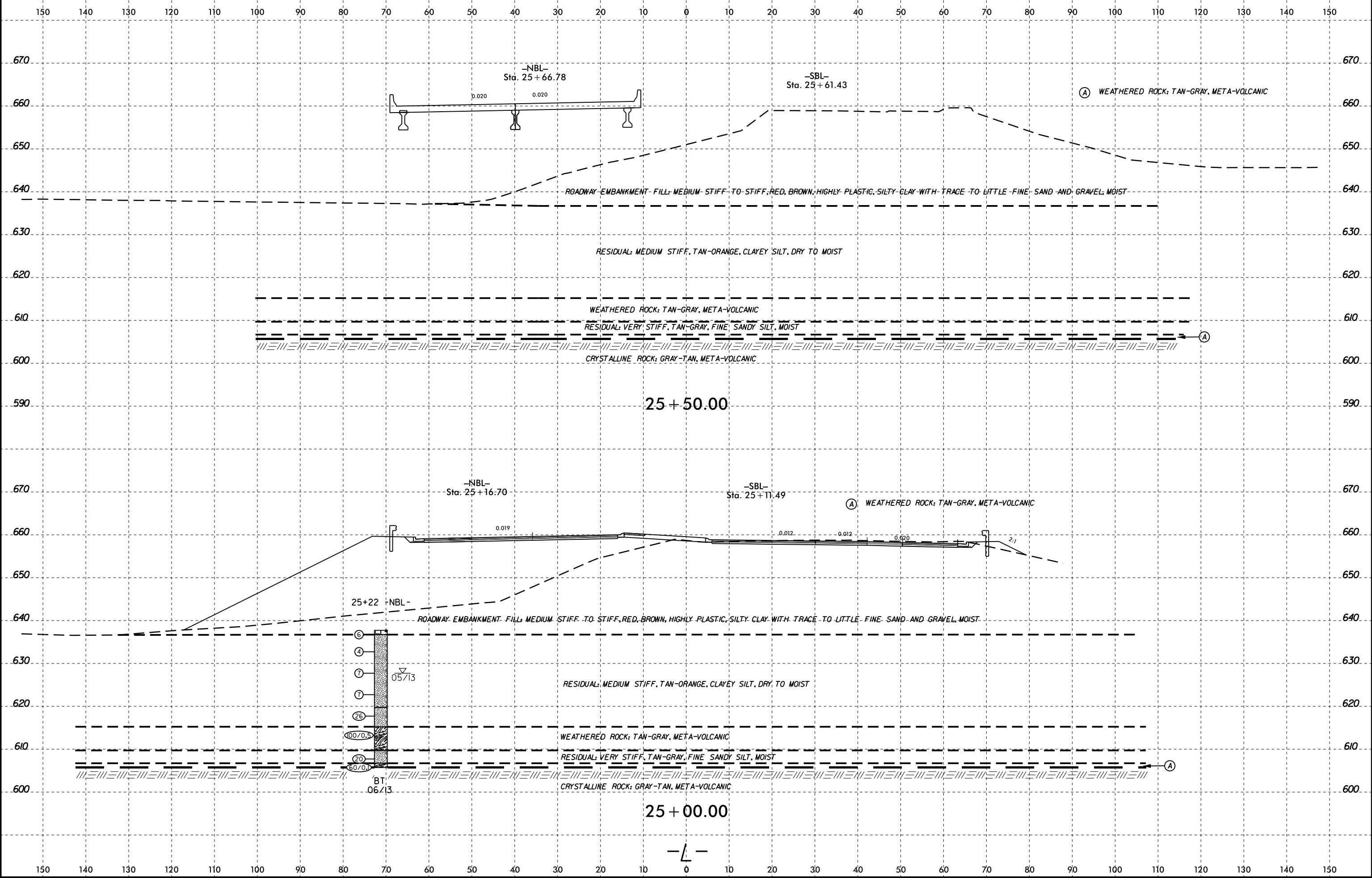
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8/23/99

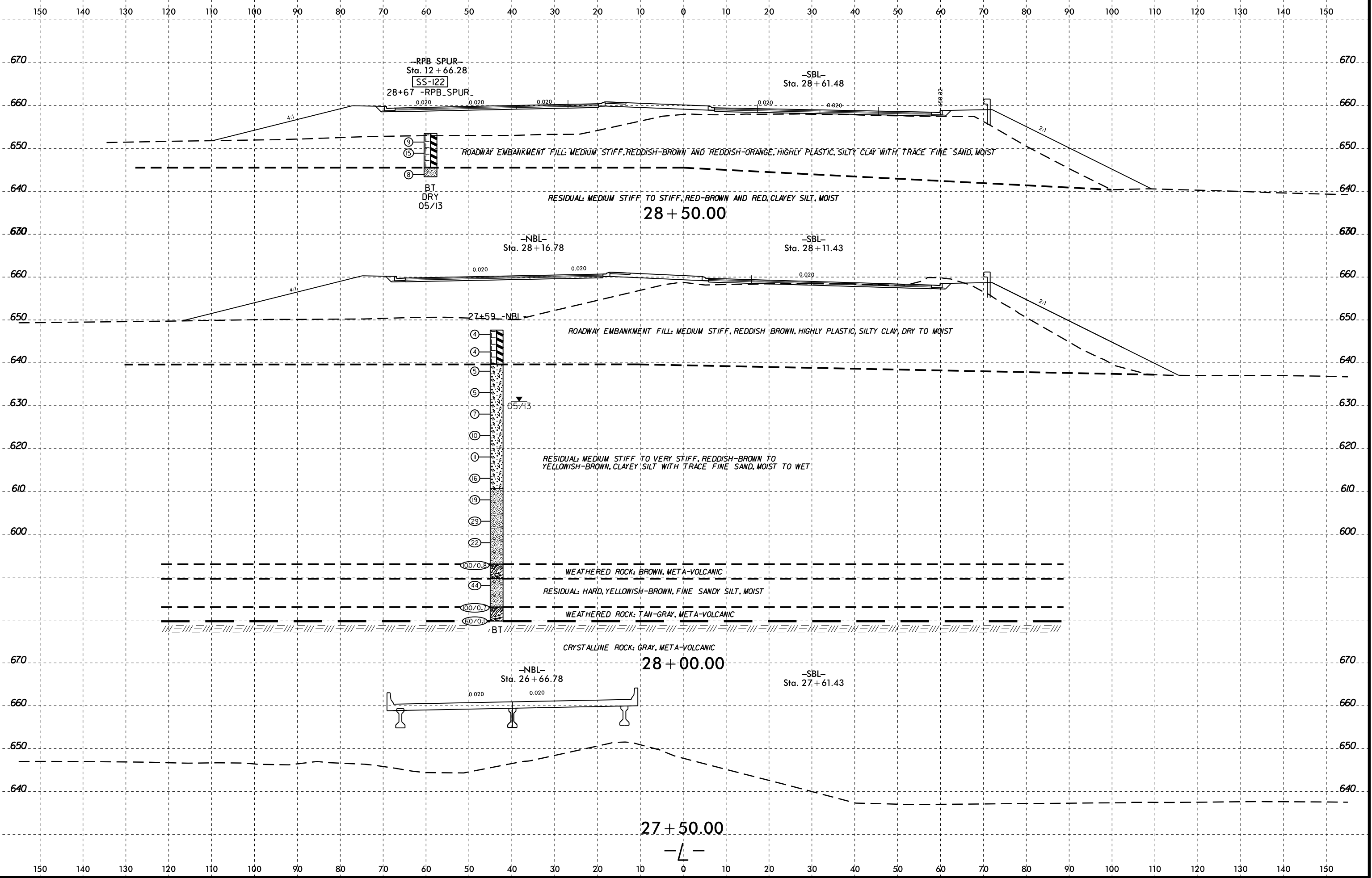


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	94



05-NOV-2014 12:32
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 rourahite AT 06/13/10

8/23/99

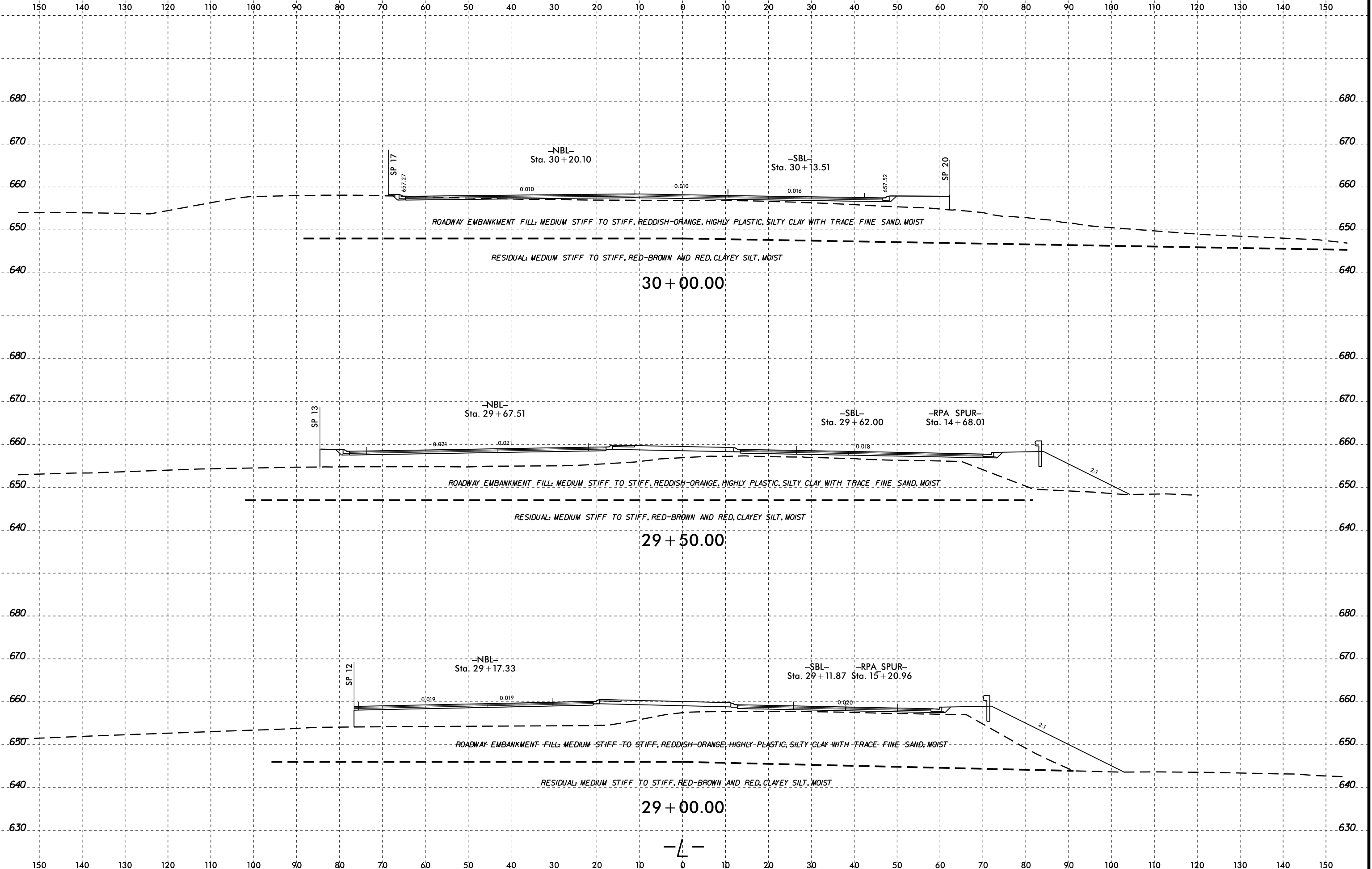


19-NOV-2014 14:17
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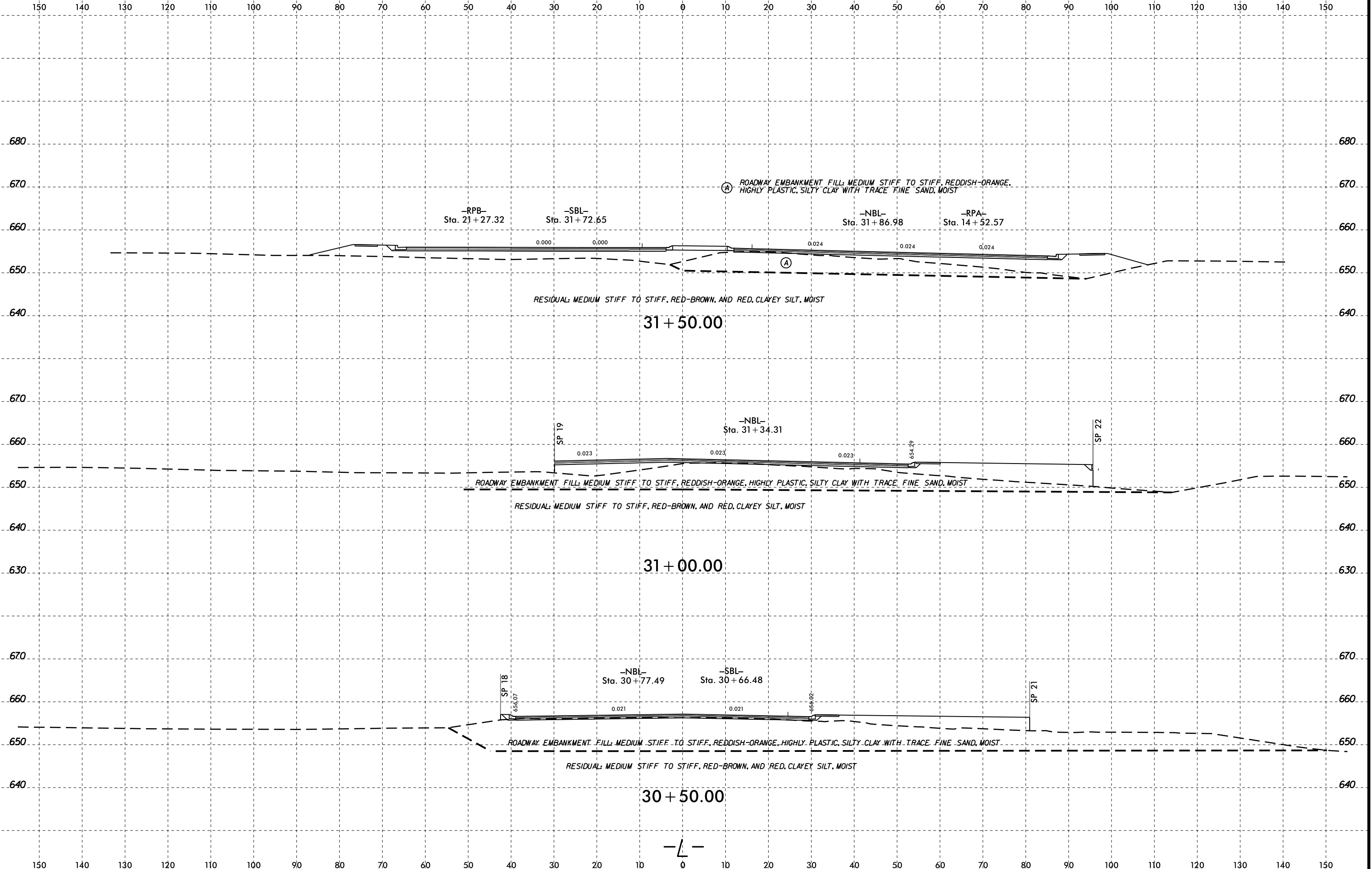
8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	96

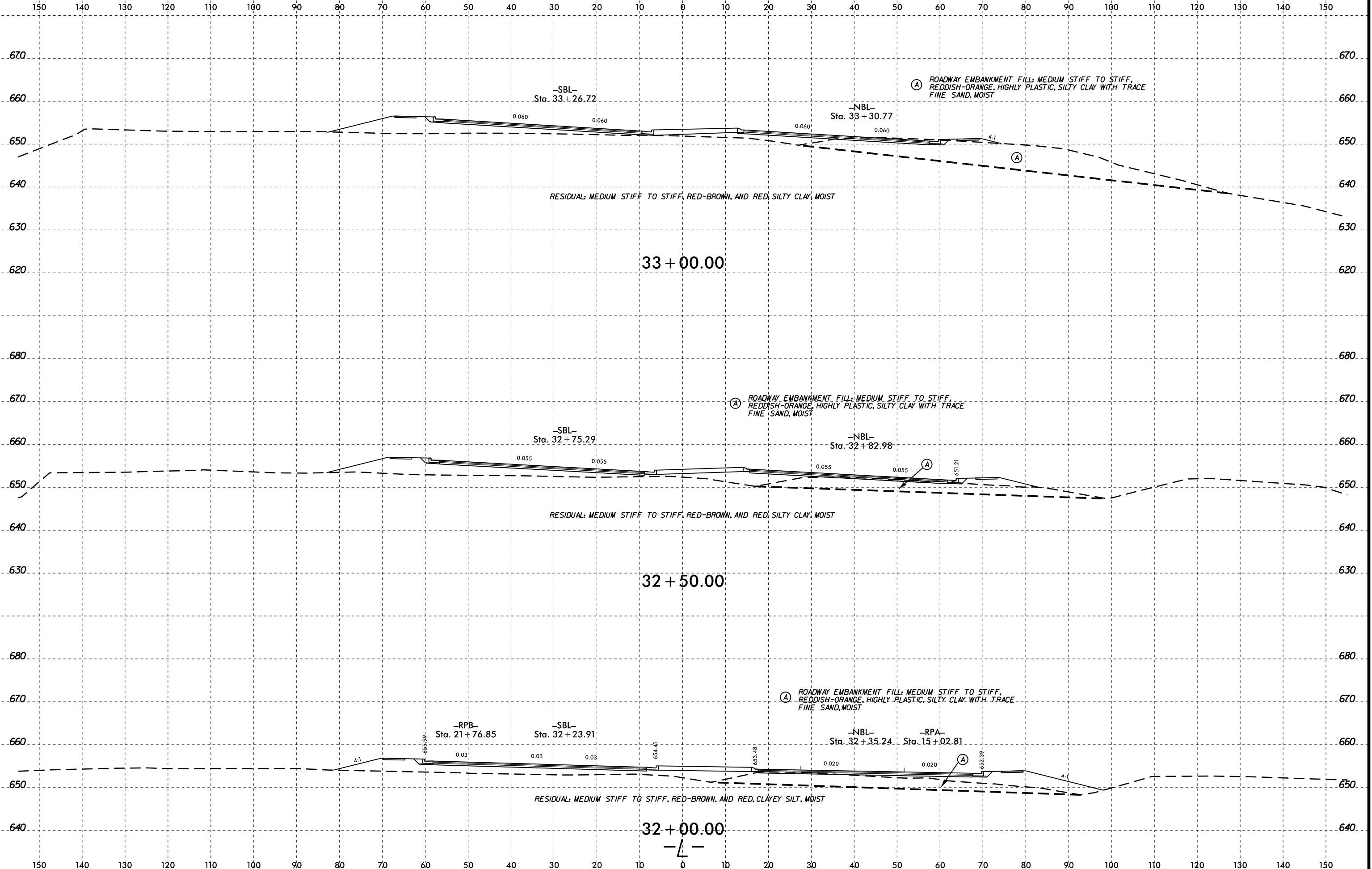


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03-NOV-2014 12:23
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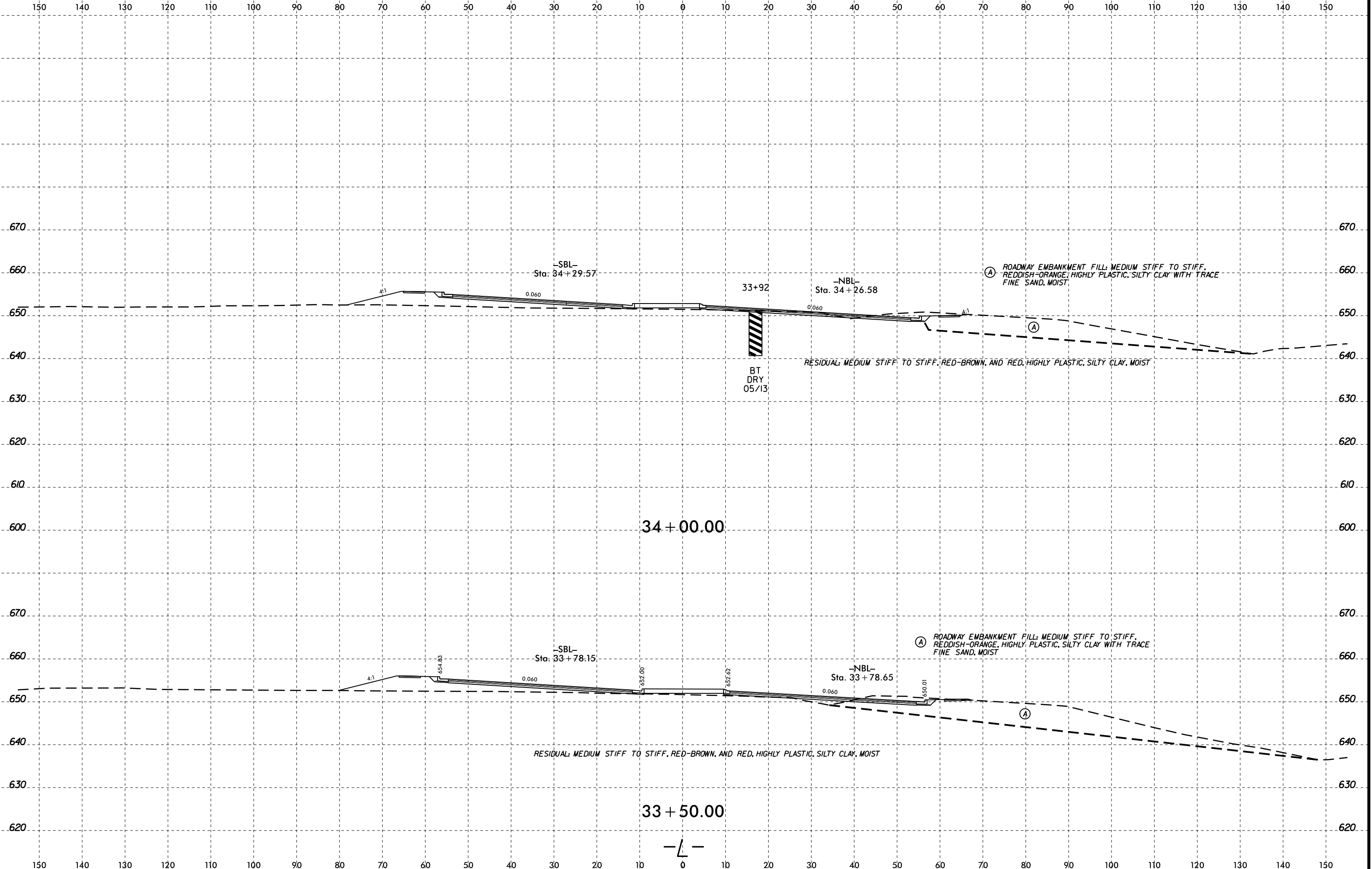
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8/23/99

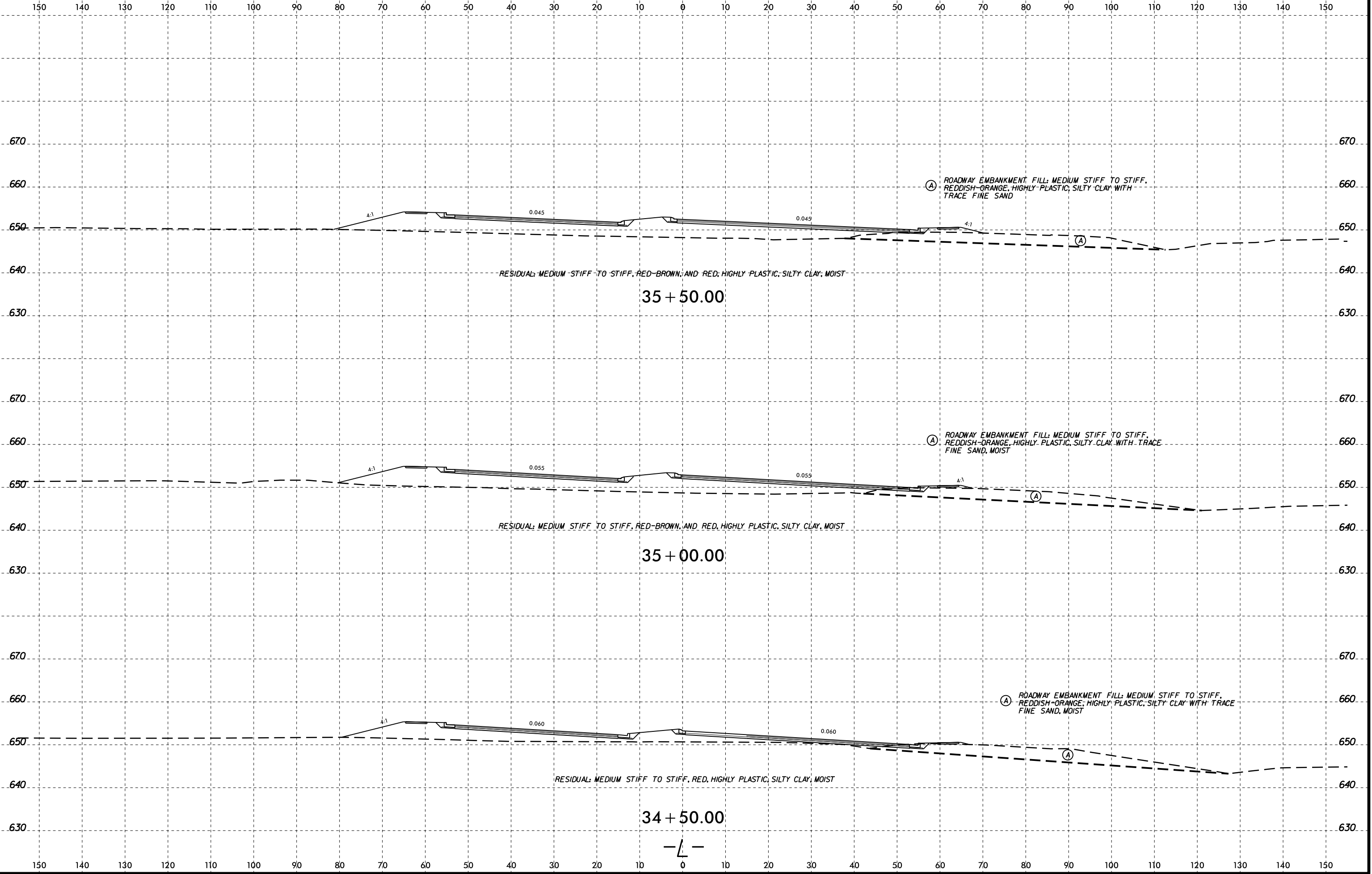


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	99



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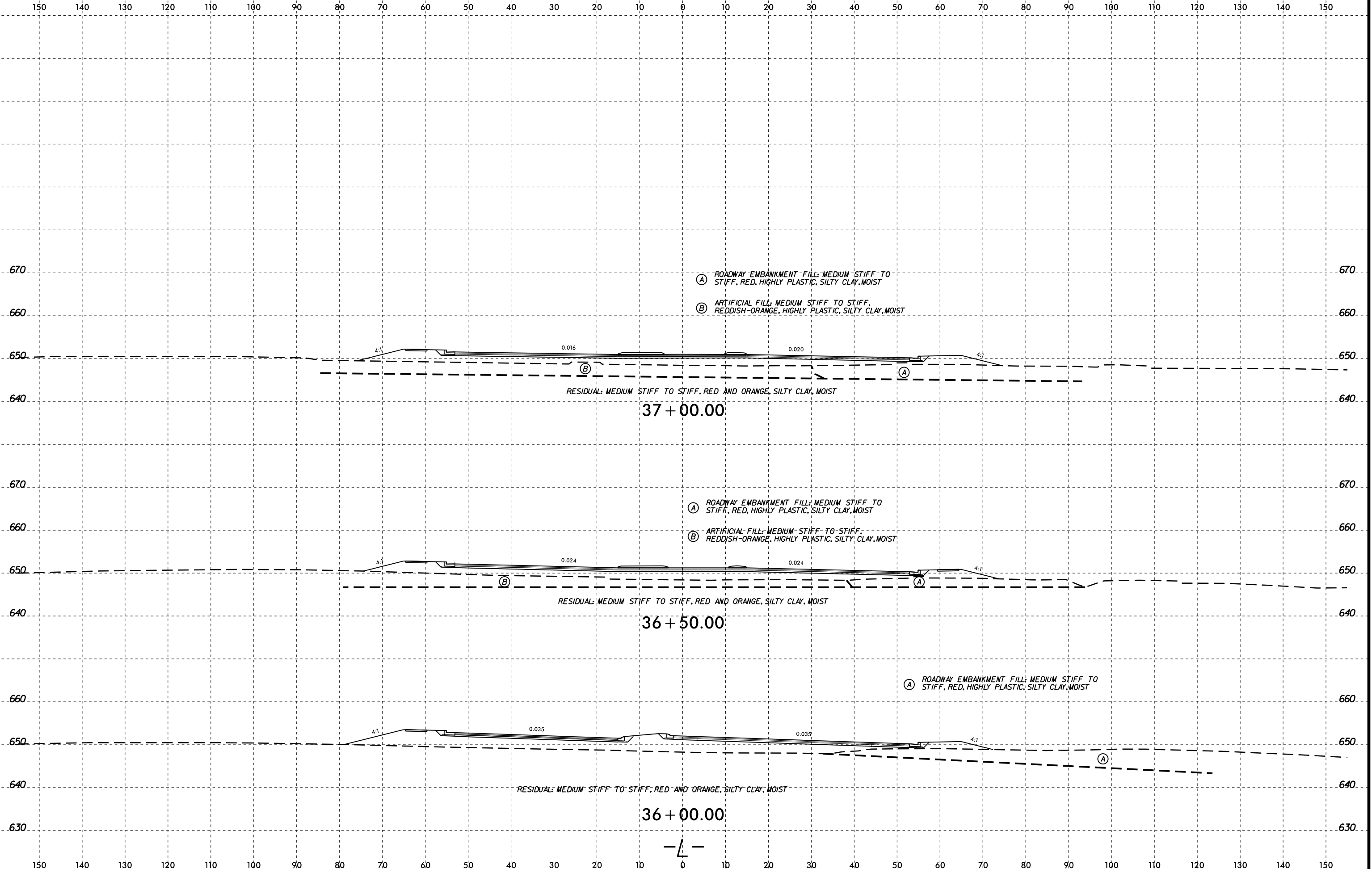
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8/23/99

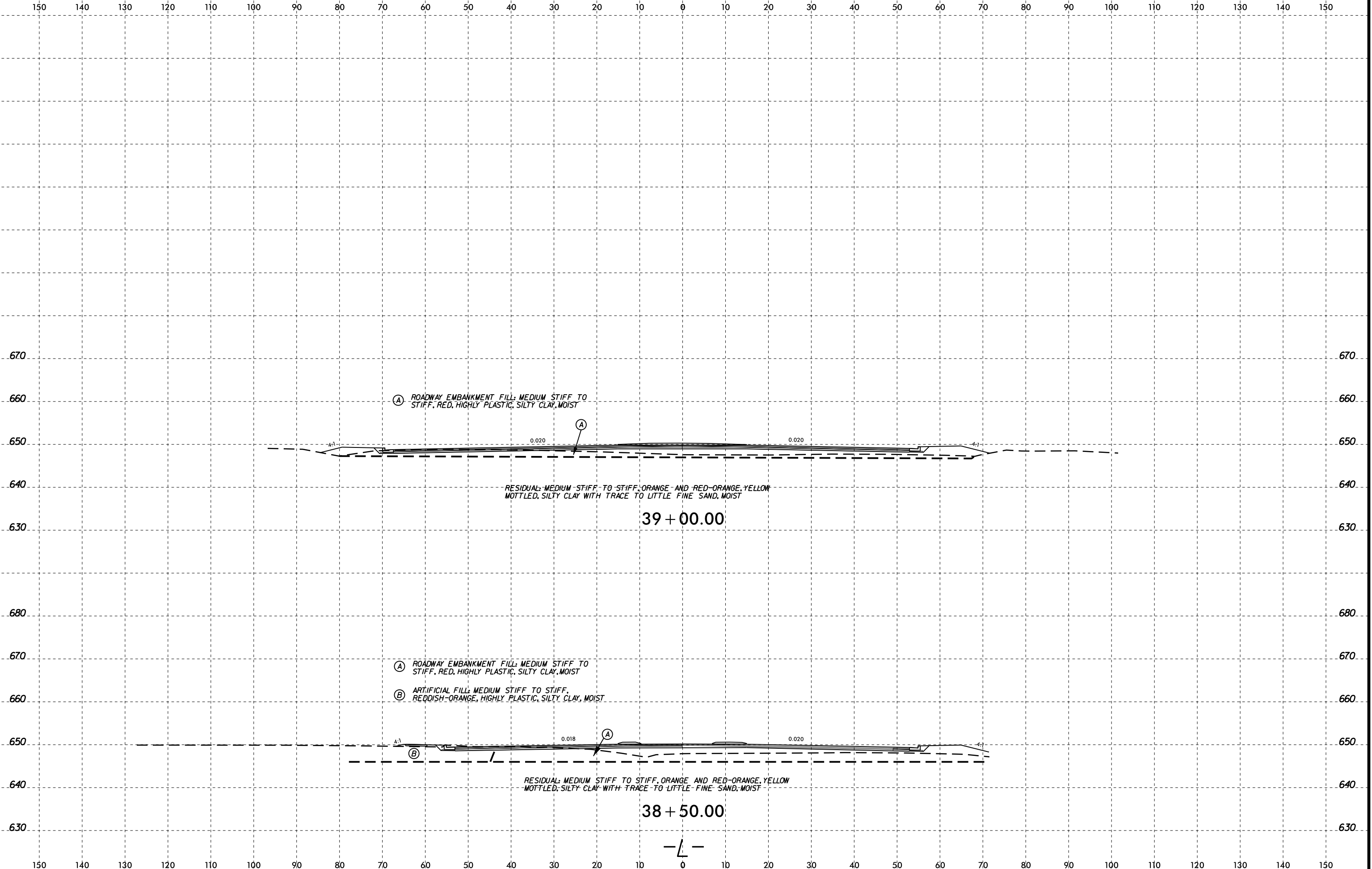
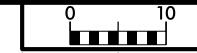


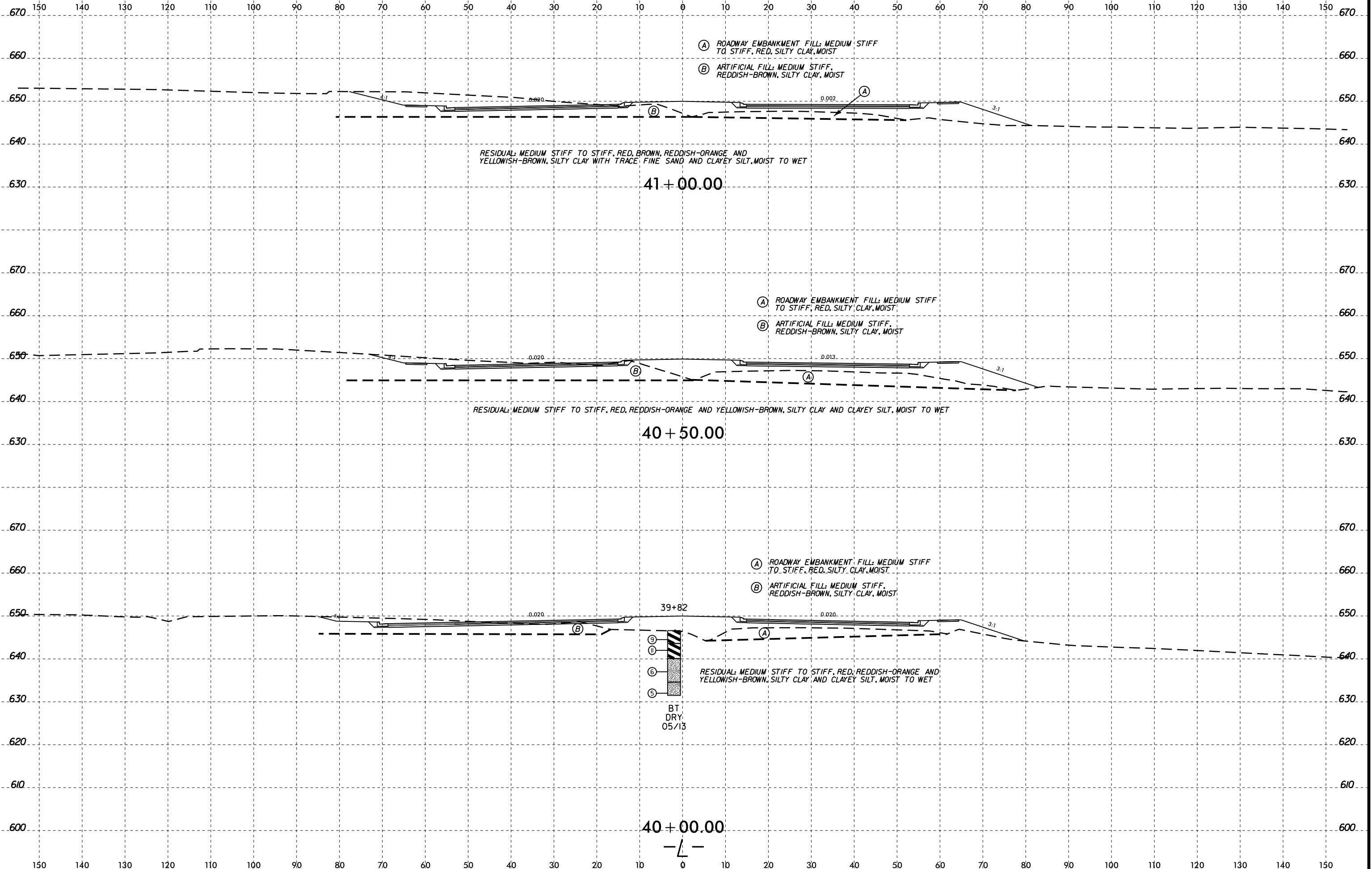
PROJ. REFERENCE NO.	SHEET NO.
U-3109A	101



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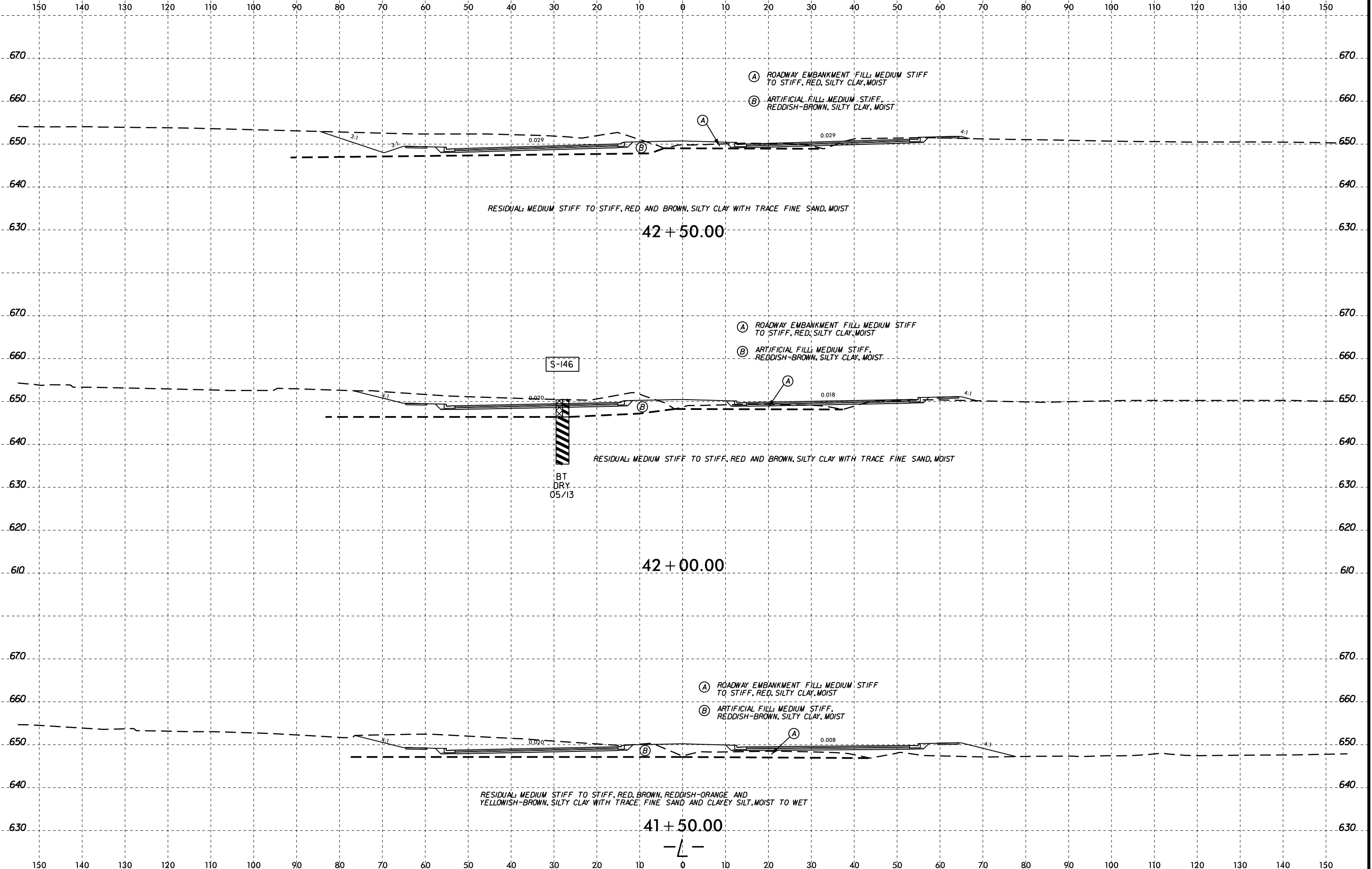


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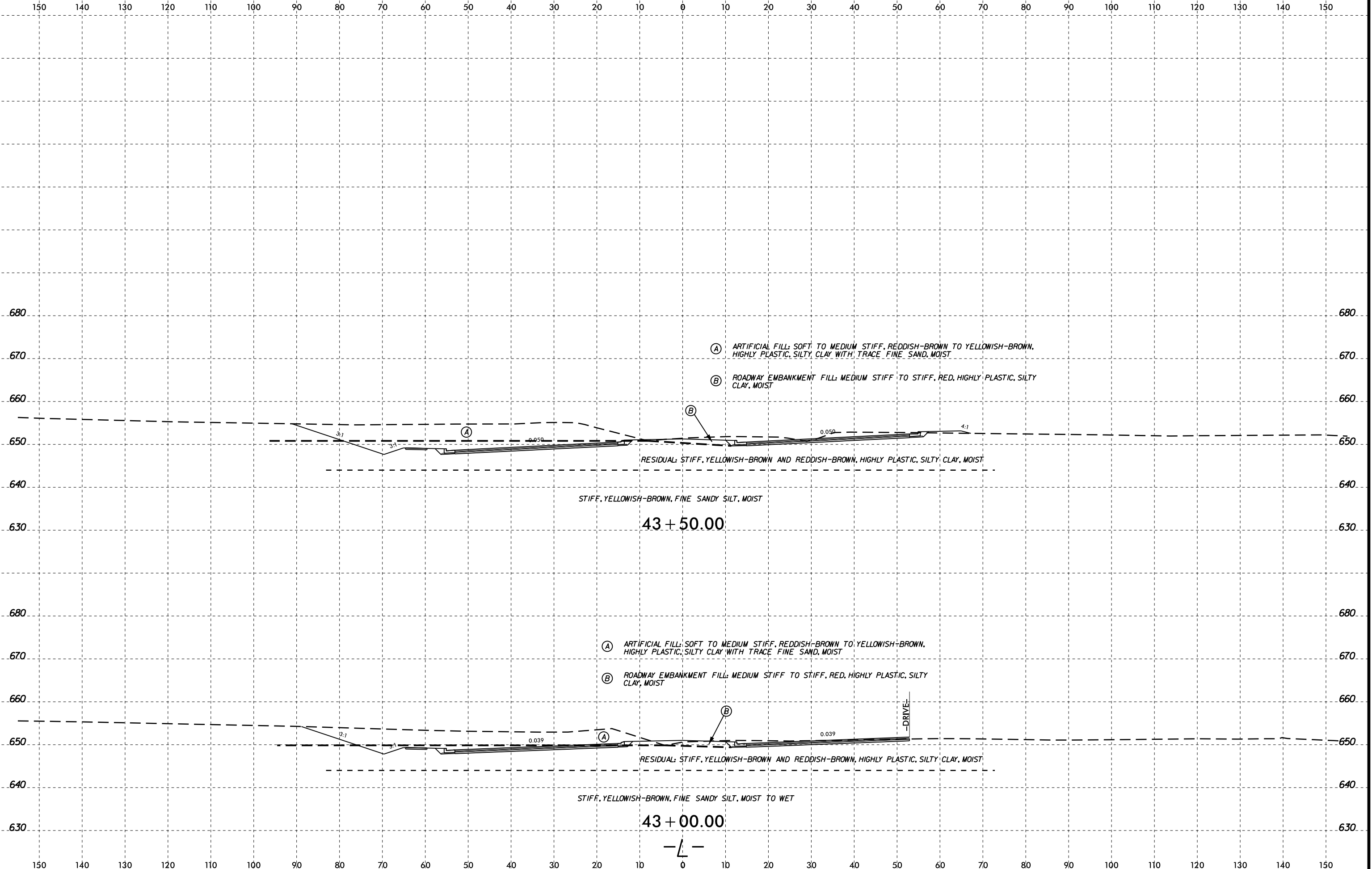
03-NOV-2014 12:23

40+00.00

BT
DRY
05/13



03-NOV-2014 12:23
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 color:ahie



- (A) ARTIFICIAL FILL: SOFT TO MEDIUM STIFF, REDDISH-BROWN TO YELLOWISH-BROWN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST
- (B) ROADWAY EMBANKMENT FILL: MEDIUM STIFF TO STIFF, RED, HIGHLY PLASTIC, SILTY CLAY, MOIST

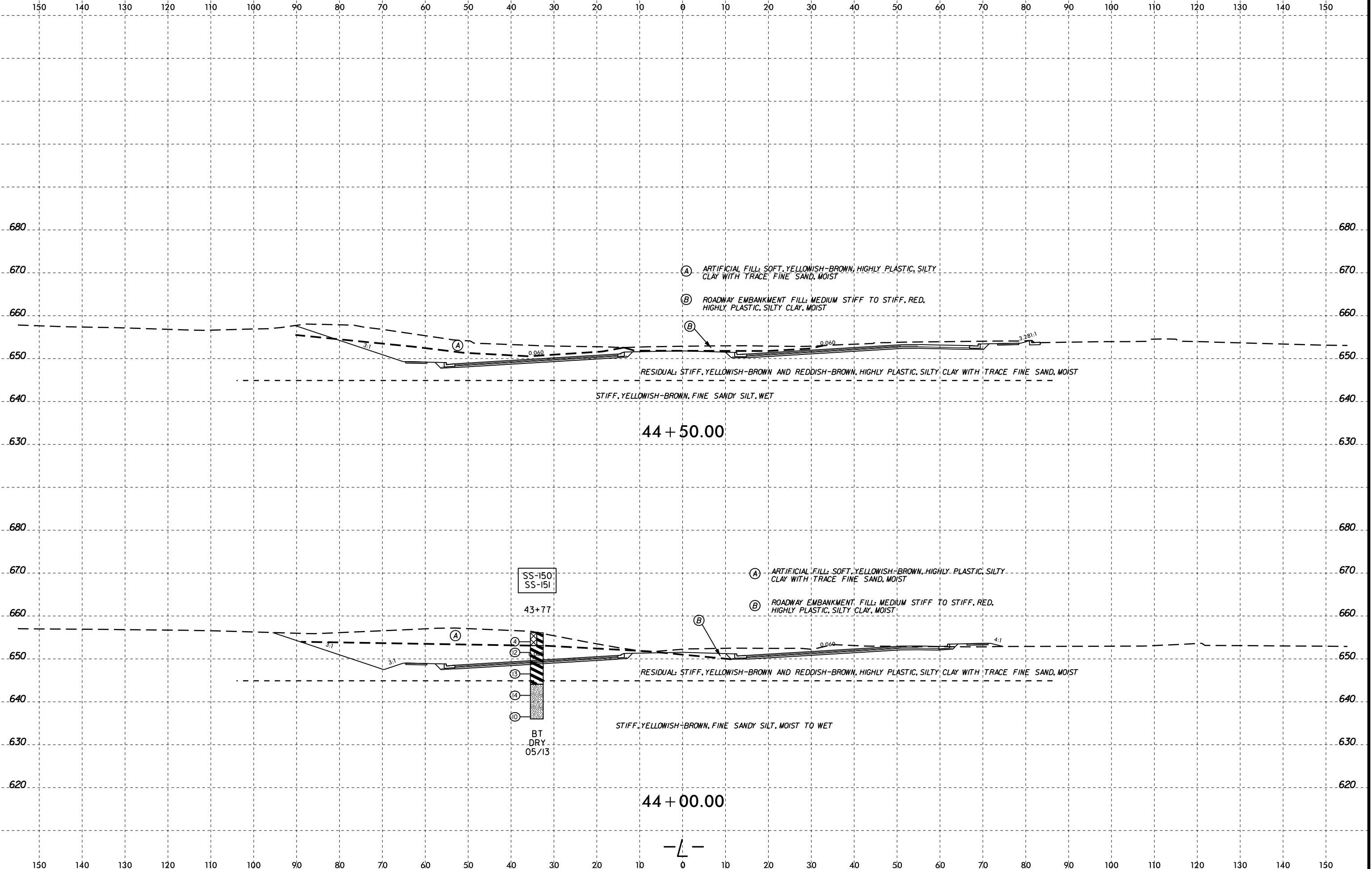
RESIDUAL: STIFF, YELLOWISH-BROWN AND REDDISH-BROWN, HIGHLY PLASTIC, SILTY CLAY, MOIST

STIFF, YELLOWISH-BROWN, FINE SANDY SILT, MOIST

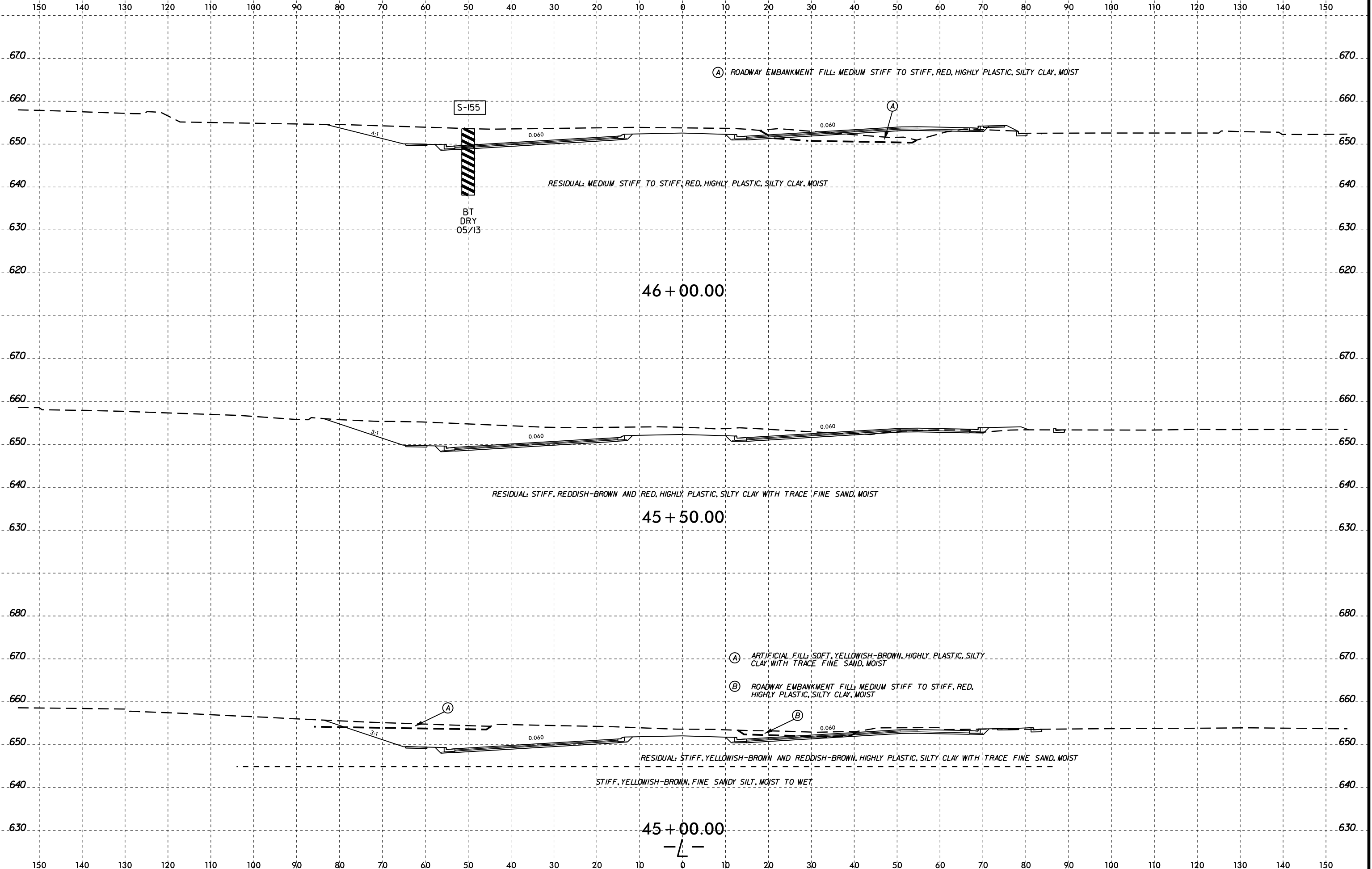
- (A) ARTIFICIAL FILL: SOFT TO MEDIUM STIFF, REDDISH-BROWN TO YELLOWISH-BROWN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST
- (B) ROADWAY EMBANKMENT FILL: MEDIUM STIFF TO STIFF, RED, HIGHLY PLASTIC, SILTY CLAY, MOIST

RESIDUAL: STIFF, YELLOWISH-BROWN AND REDDISH-BROWN, HIGHLY PLASTIC, SILTY CLAY, MOIST

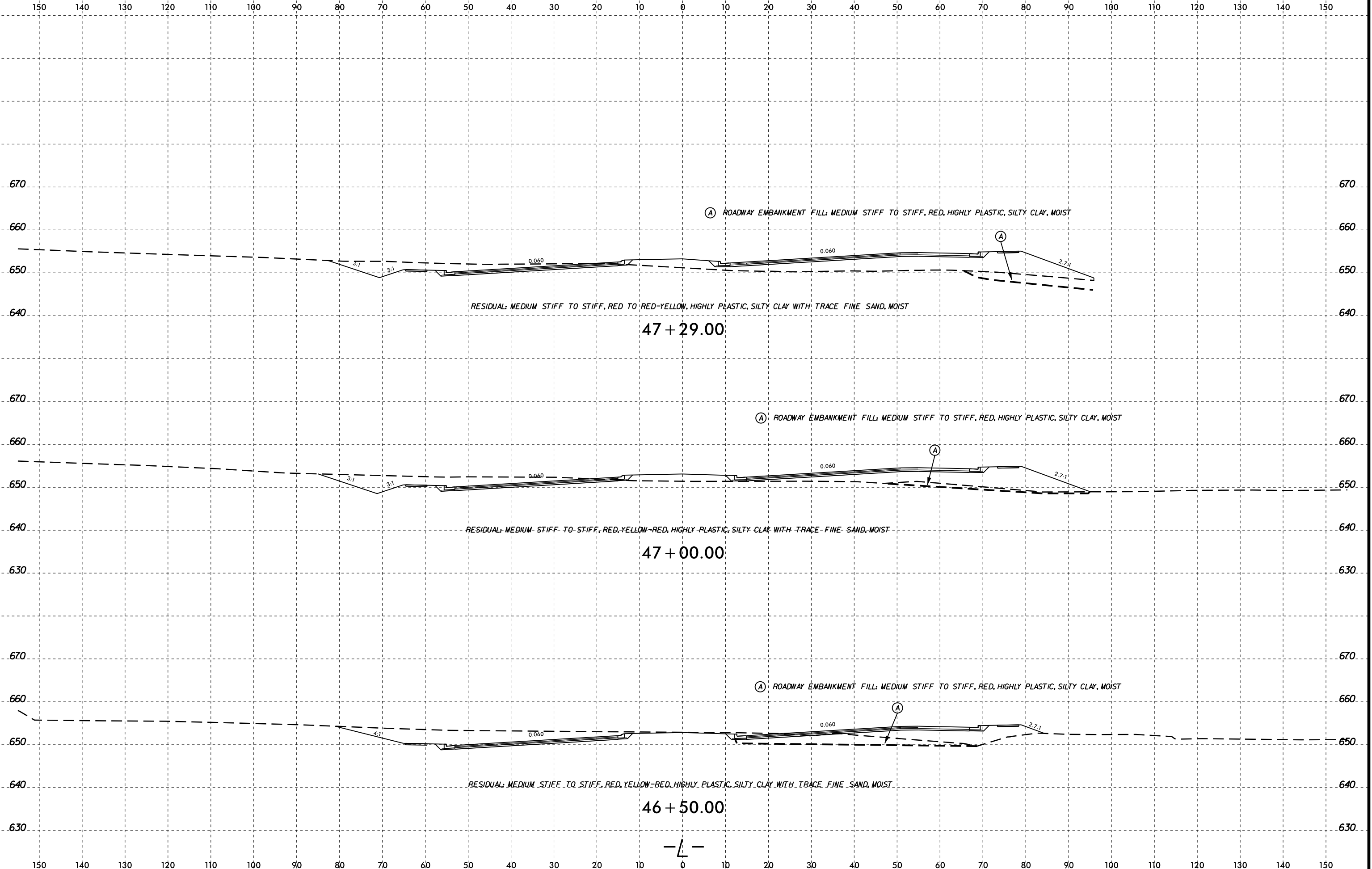
STIFF, YELLOWISH-BROWN, FINE SANDY SILT, MOIST TO WET



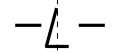
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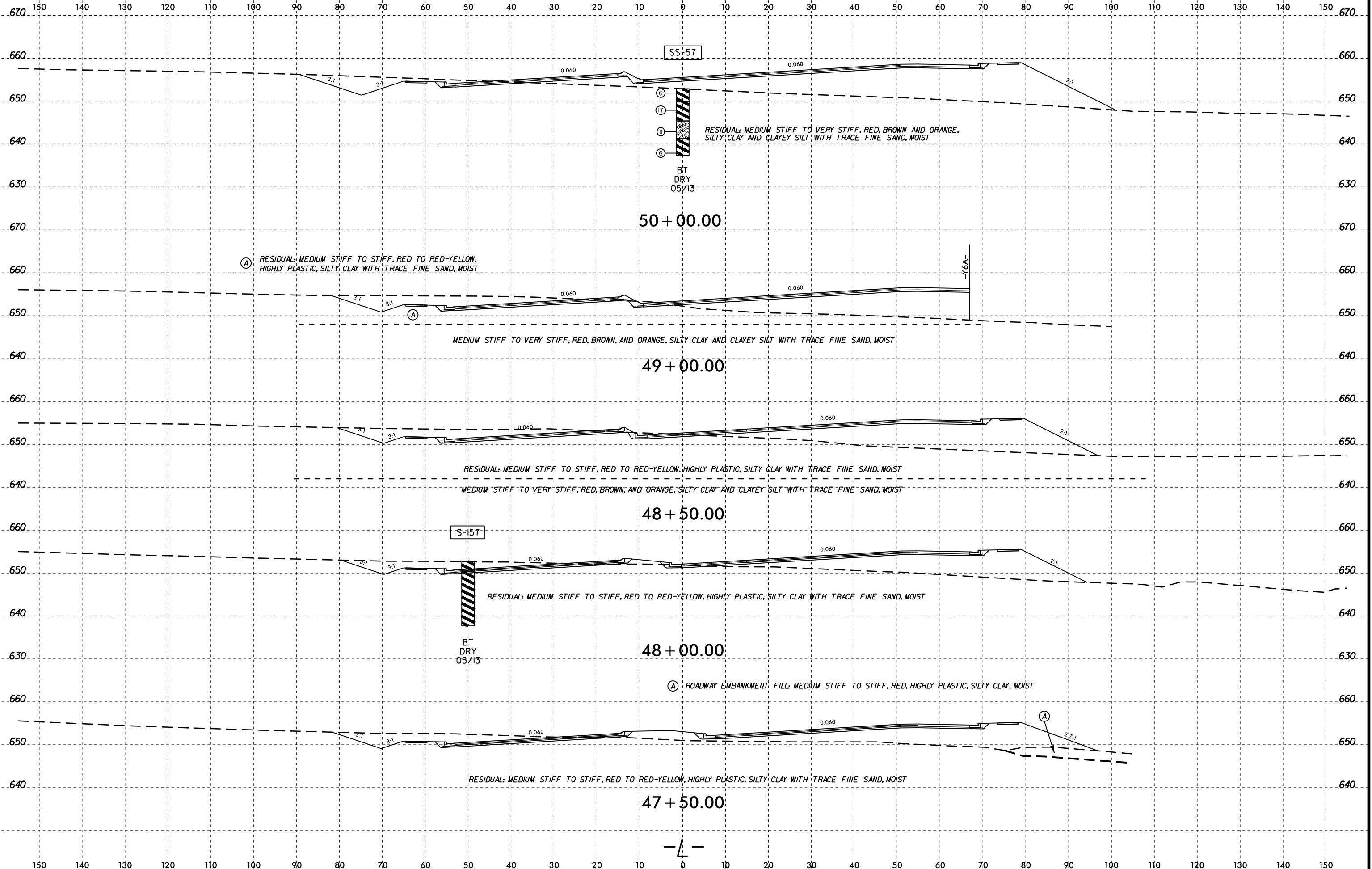
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8/23/99

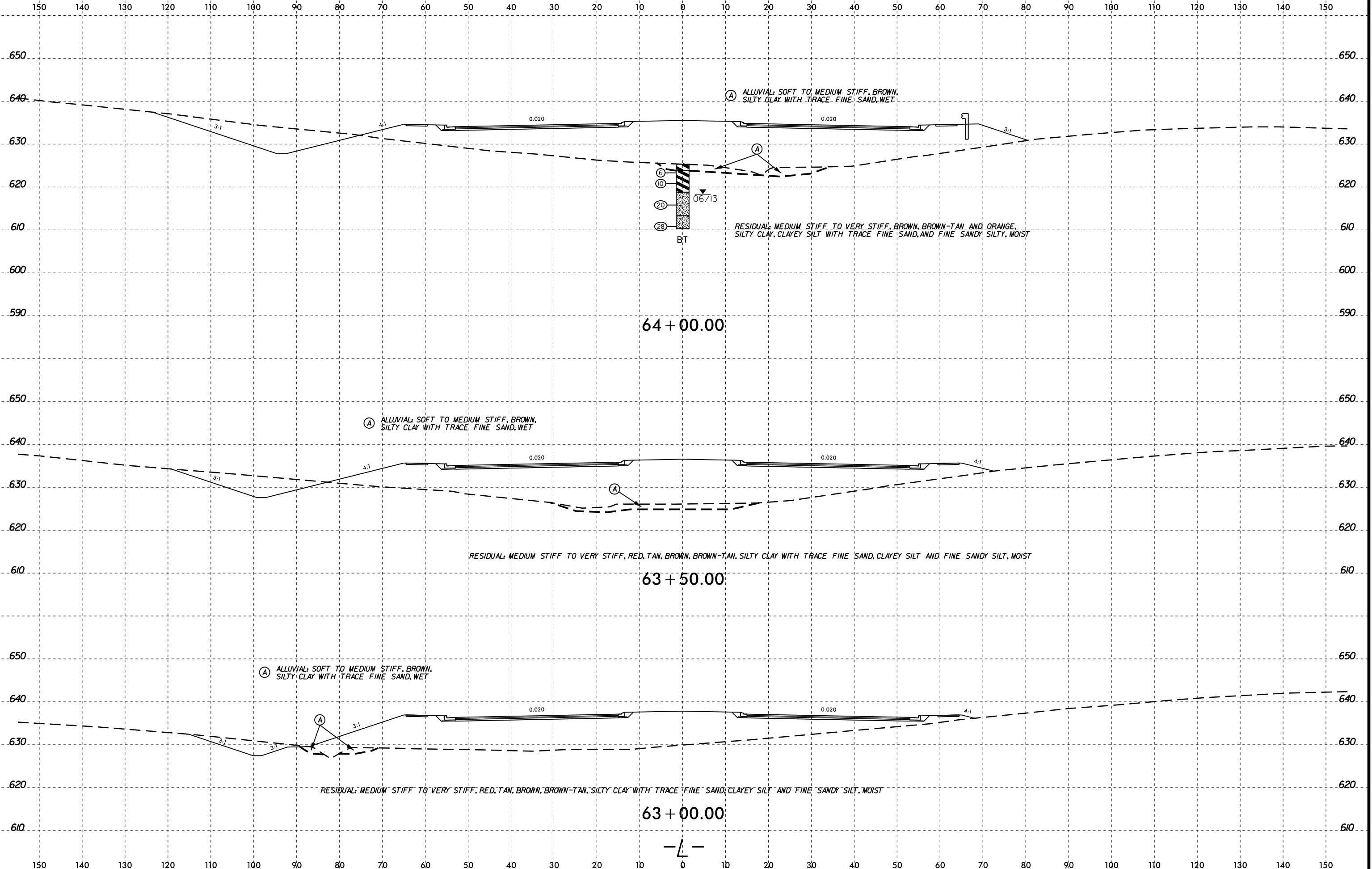


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	110



03-NOV-2014 12:23
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8/23/99
03-NOV-2014 12:24
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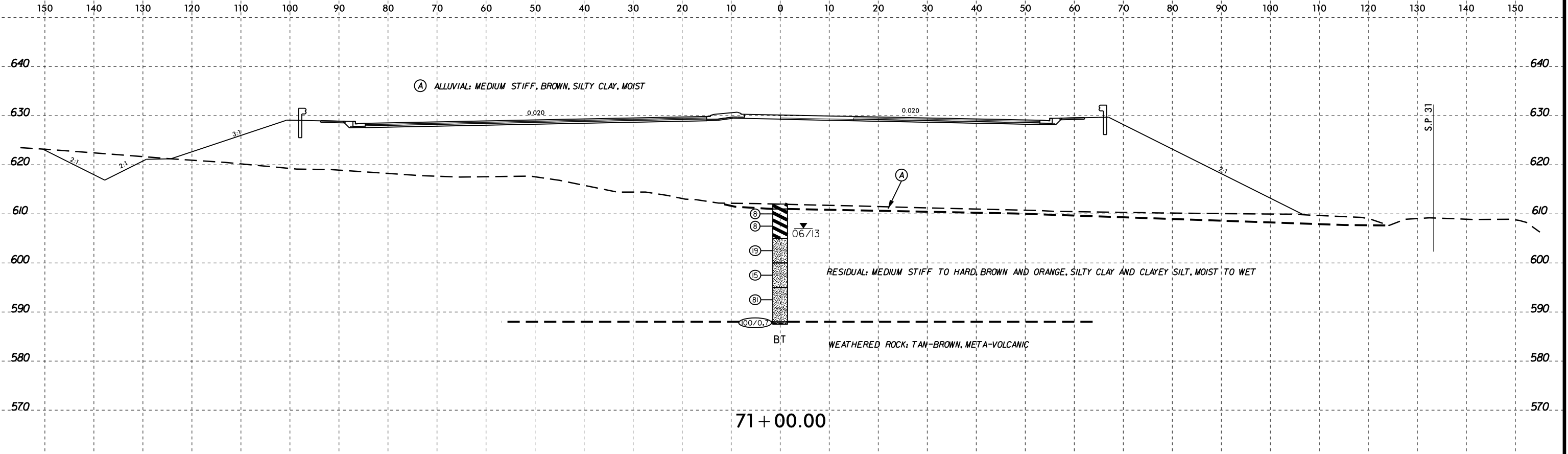
64 + 00.00

63 + 50.00

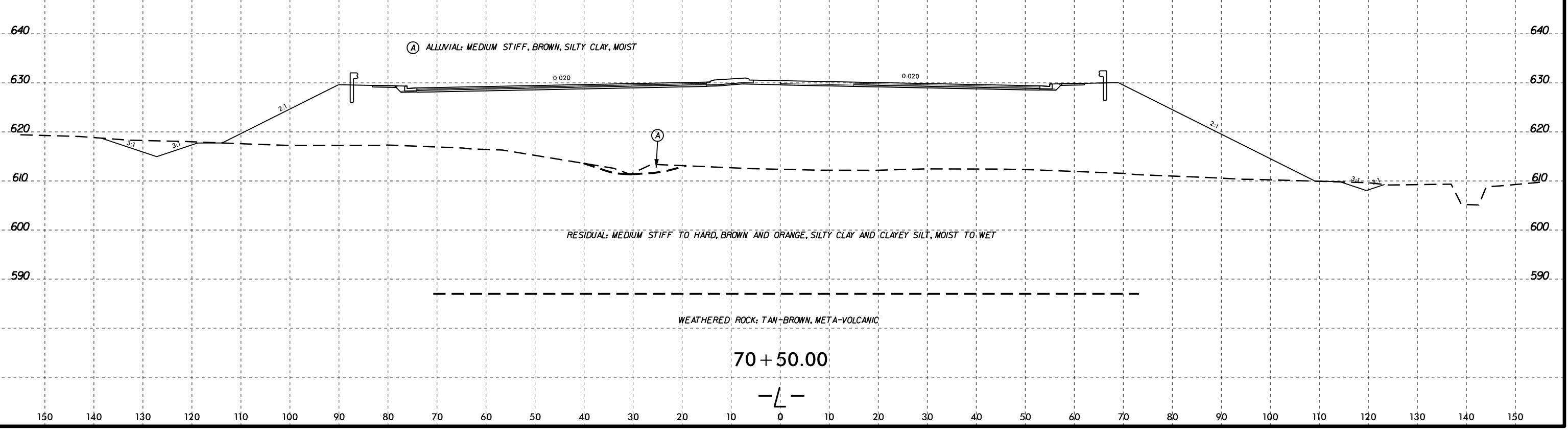
63 + 00.00

— L —

8/23/99



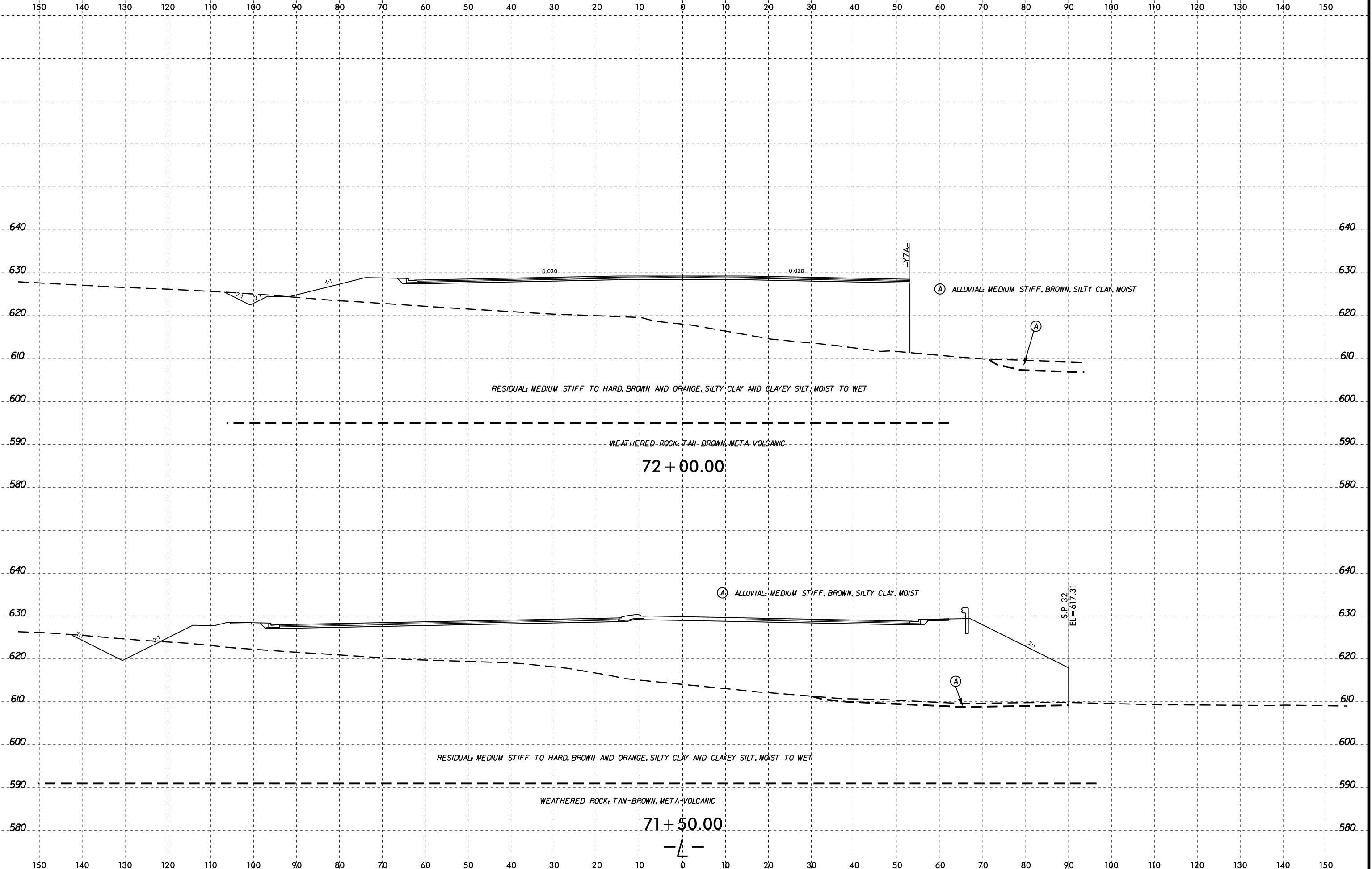
71 + 00.00



70 + 50.00

-L-

03-NOV-2014 12:24
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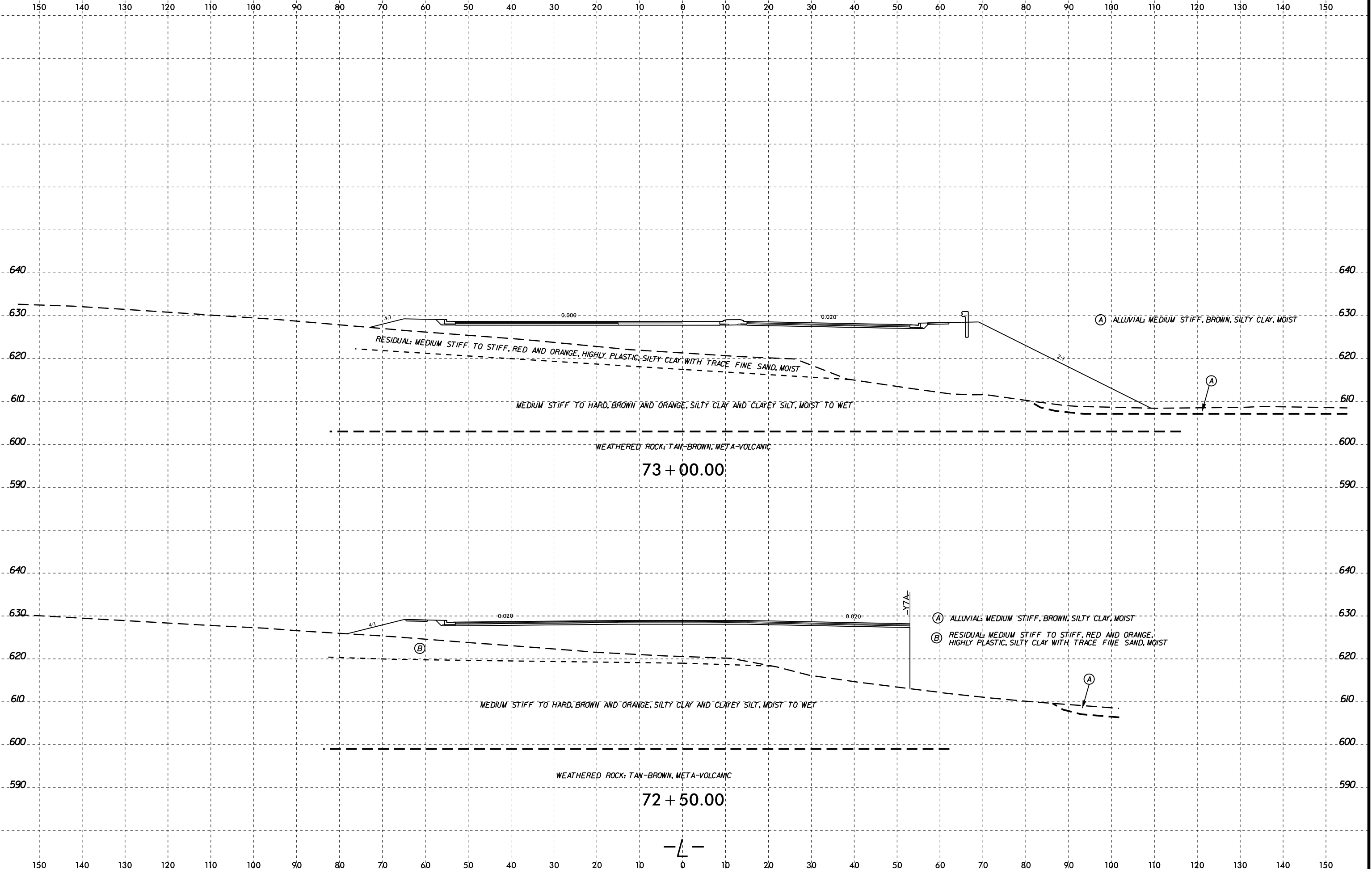


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	115



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Color: white

73 + 00.00

72 + 50.00

—L—

RESIDUAL: MEDIUM STIFF TO STIFF, RED AND ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

MEDIUM STIFF TO HARD, BROWN AND ORANGE, SILTY CLAY AND CLAYEY SILT, MOIST TO WET

WEATHERED ROCK: TAN-BROWN, META-VOLCANIC

(A) ALLUVIAL: MEDIUM STIFF, BROWN, SILTY CLAY, MOIST

(A) ALLUVIAL: MEDIUM STIFF, BROWN, SILTY CLAY, MOIST
(B) RESIDUAL: MEDIUM STIFF TO STIFF, RED AND ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

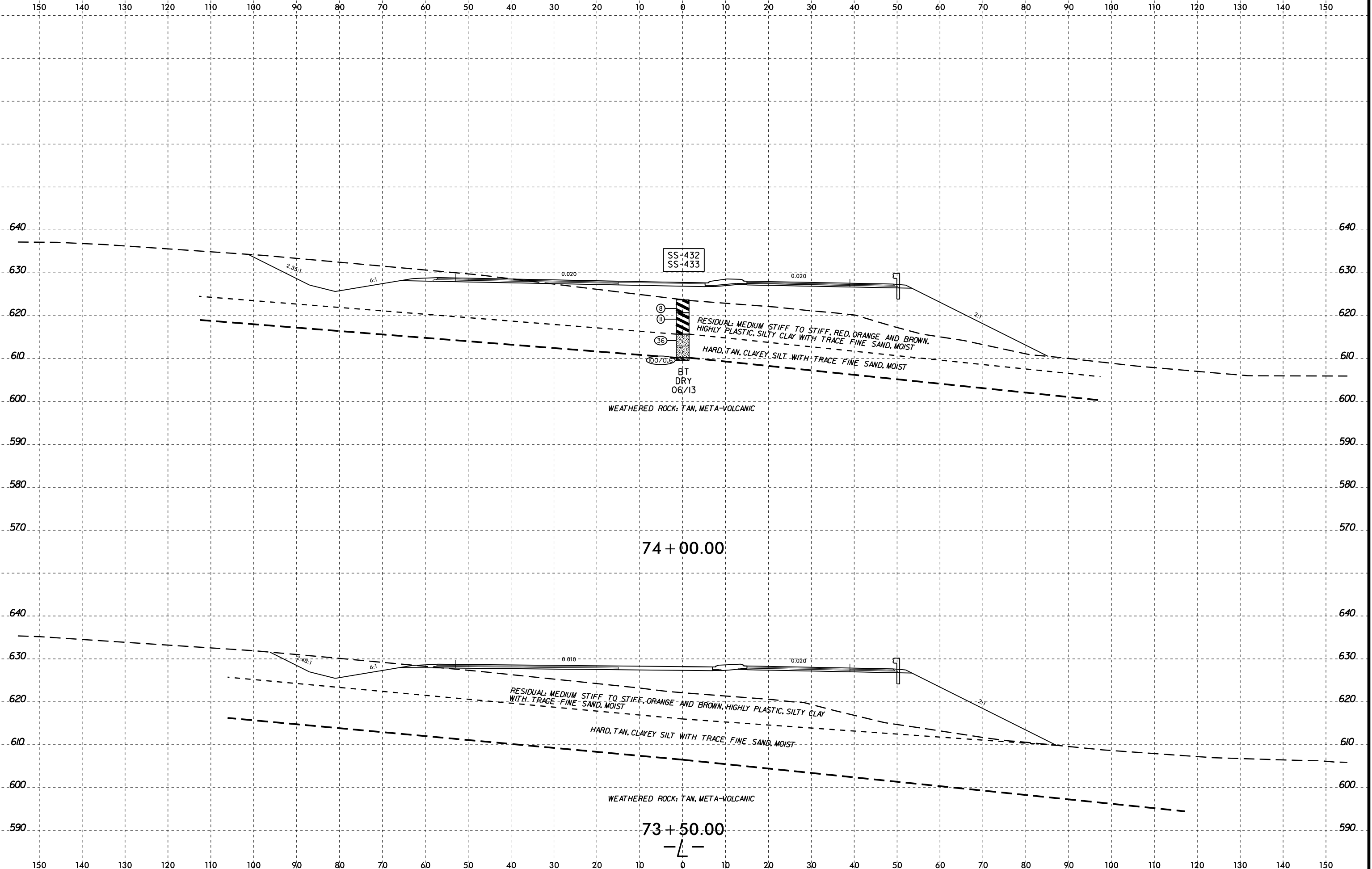
MEDIUM STIFF TO HARD, BROWN AND ORANGE, SILTY CLAY AND CLAYEY SILT, MOIST TO WET

WEATHERED ROCK: TAN-BROWN, META-VOLCANIC

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	116

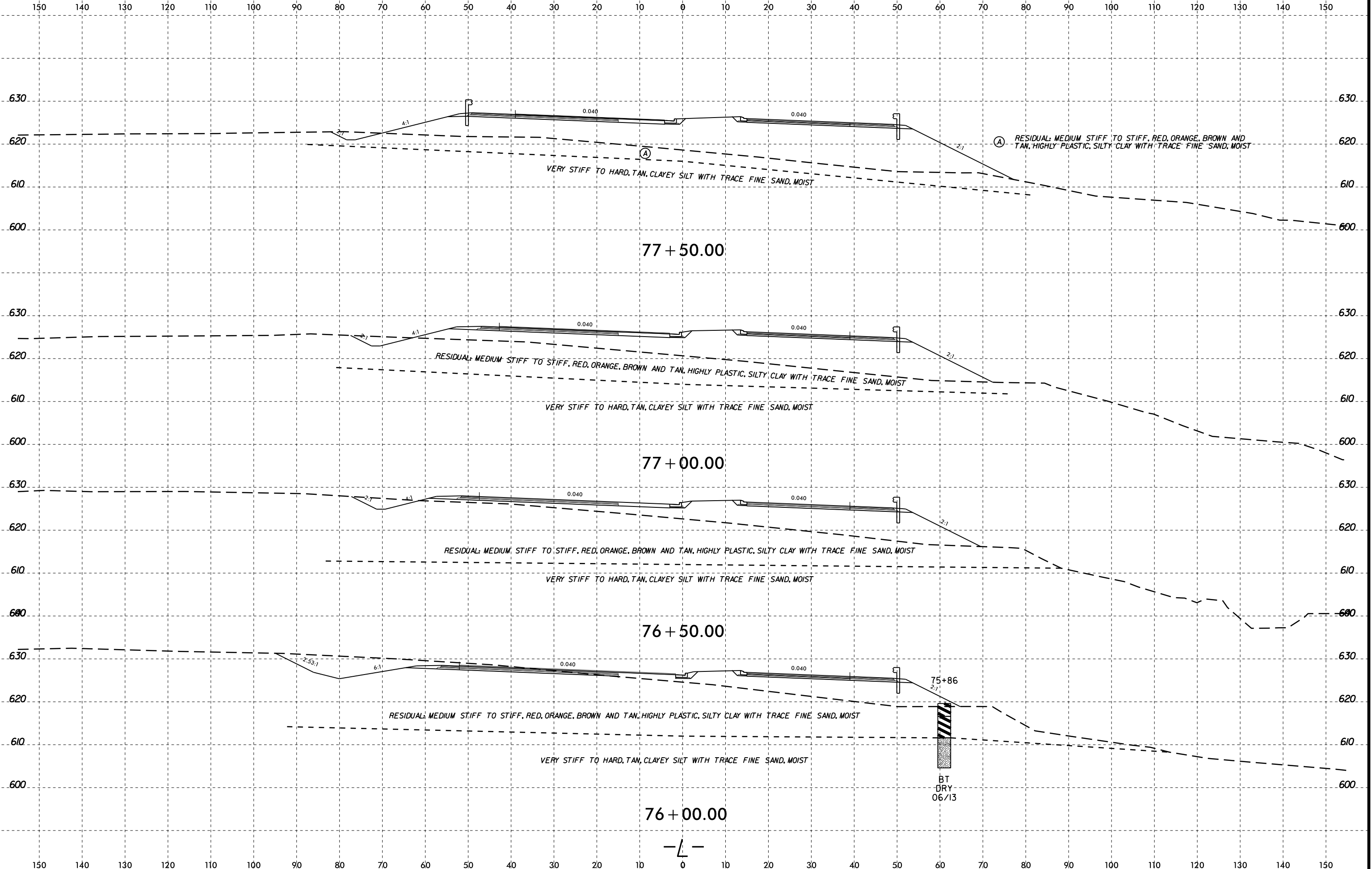


03-NOV-2014 12:24
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 Colour:

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	118



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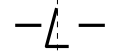
77 + 50.00

77 + 00.00

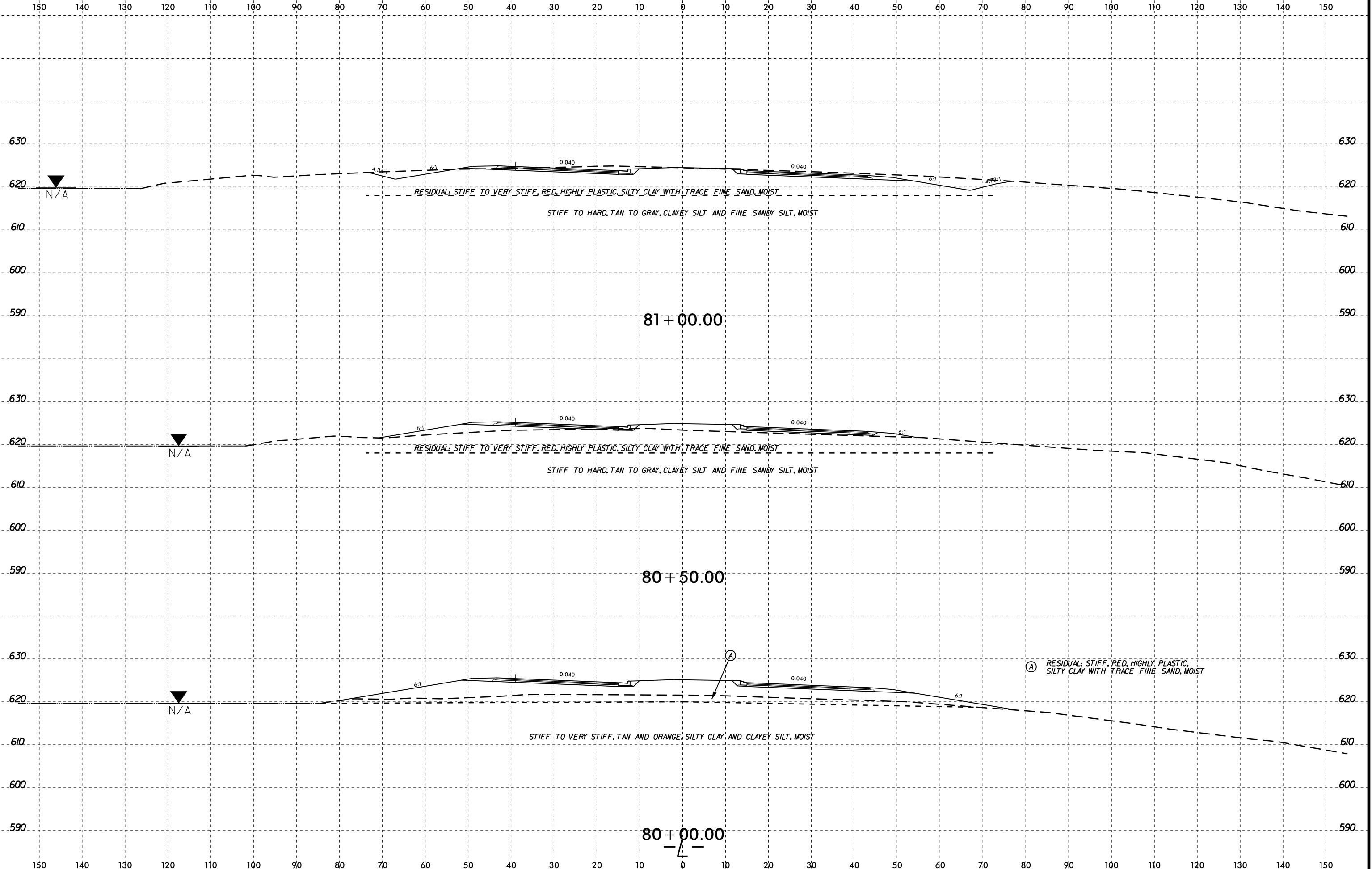
76 + 50.00

76 + 00.00

75+86
2.7'
BT
DRY
06/13



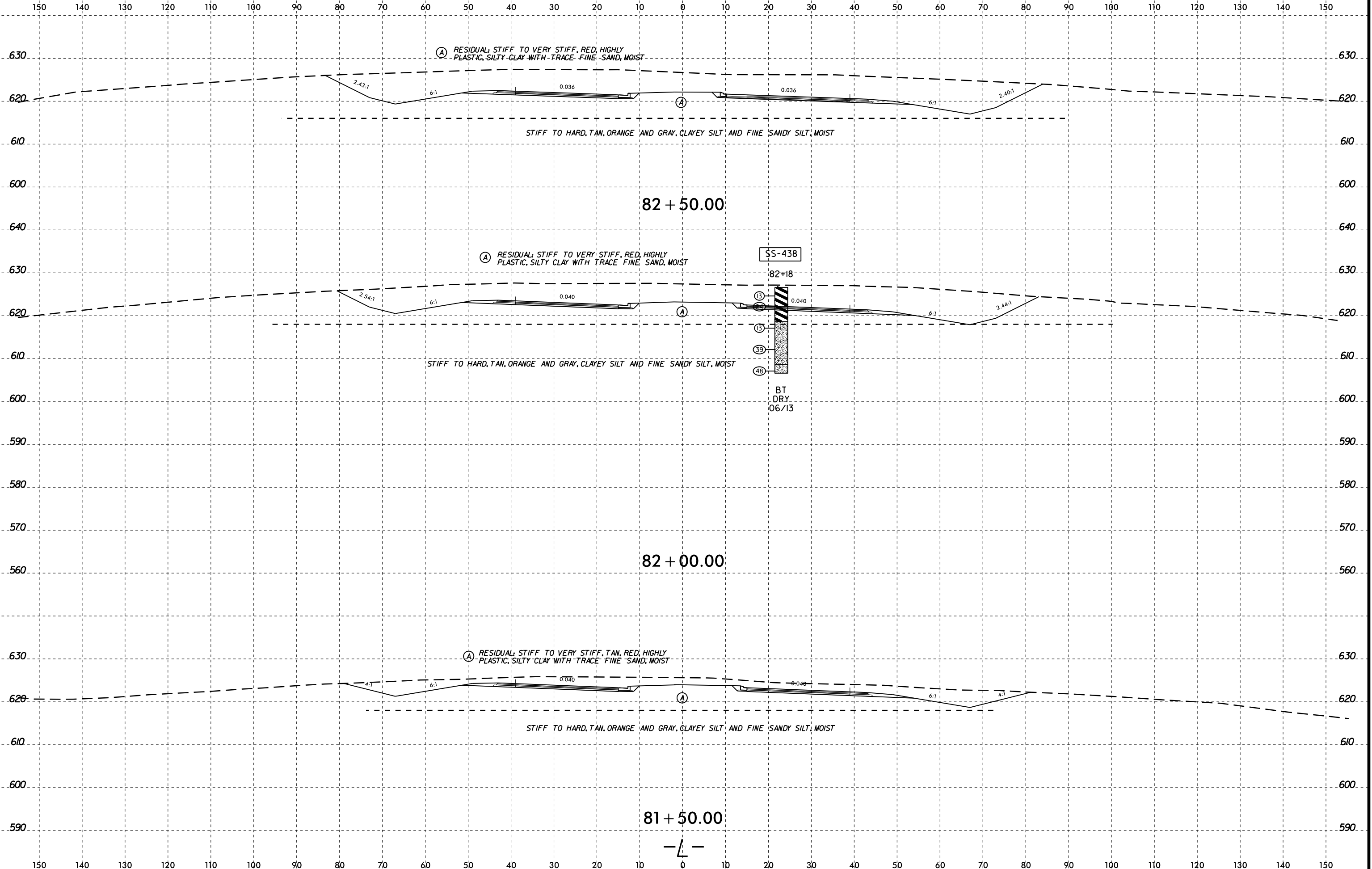
8/23/99
03-NOV-2014 12:24
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8/23/99

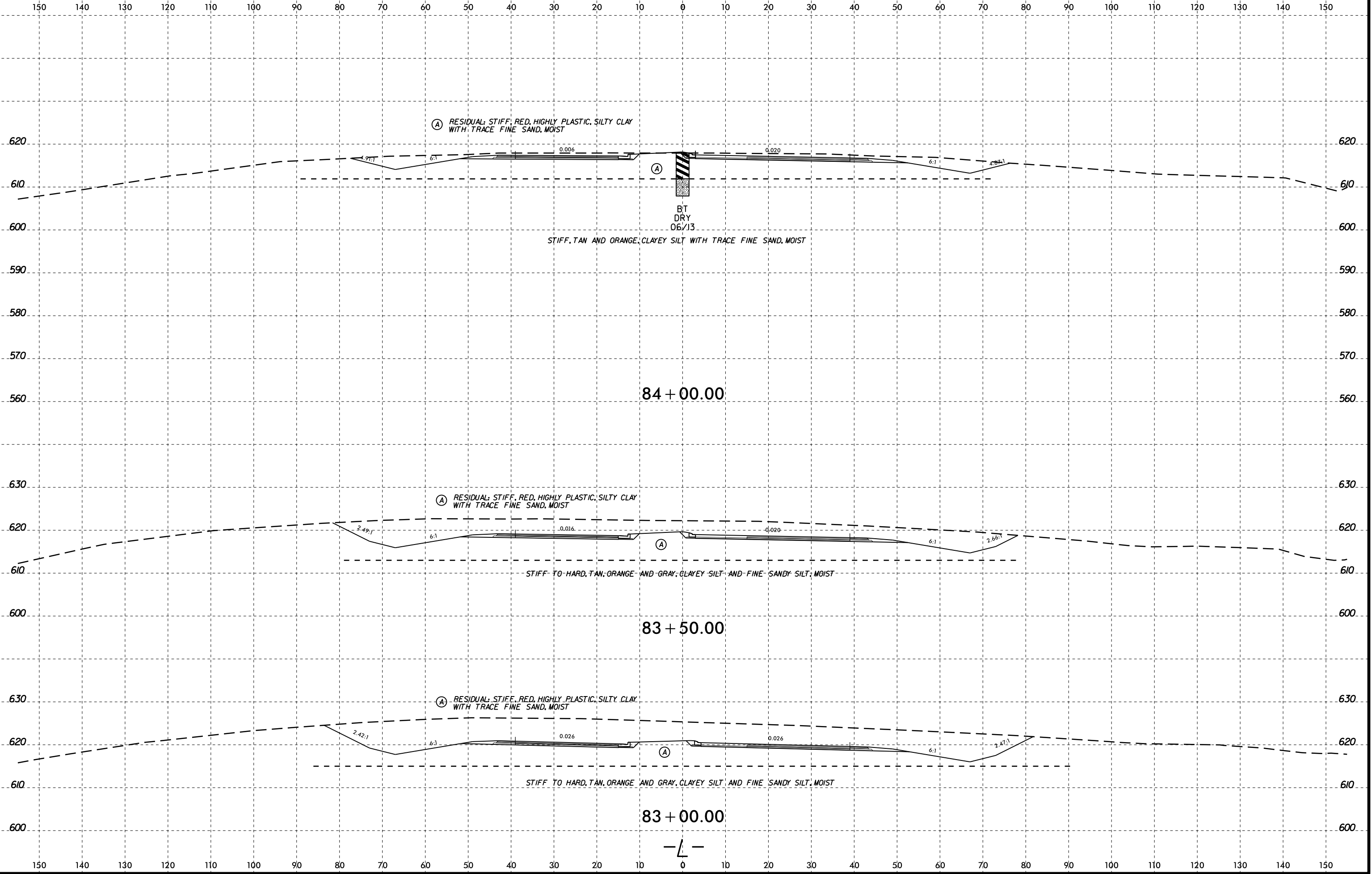


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	121



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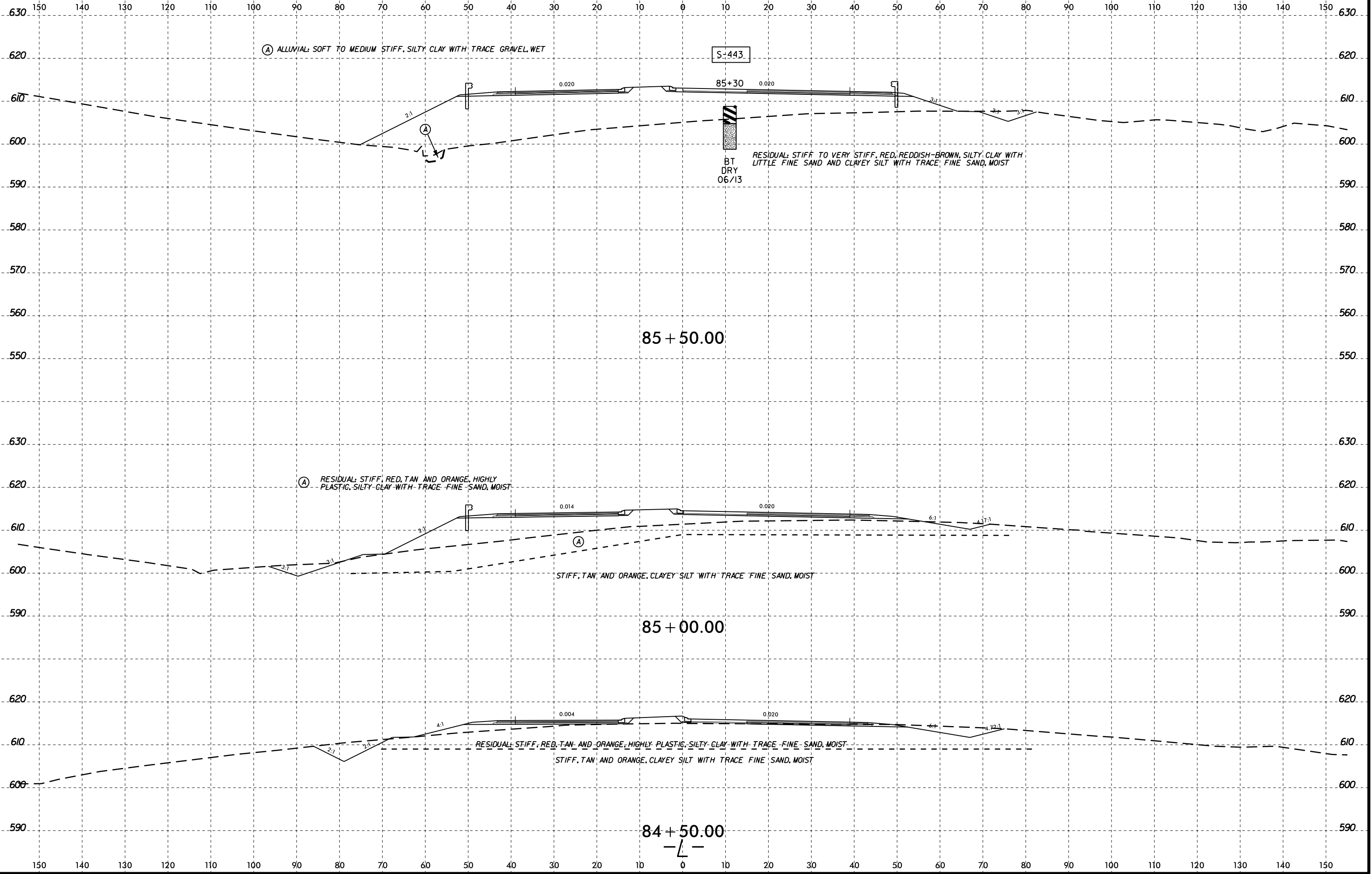
8/23/99
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Color:ahie



8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	123



(A) ALLUVIAL: SOFT TO MEDIUM STIFF, SILTY CLAY WITH TRACE GRAVEL, WET

S-443

BT
DRY
06/13

RESIDUAL: STIFF TO VERY STIFF, RED, REDDISH-BROWN, SILTY CLAY WITH LITTLE FINE SAND AND CLAYEY SILT WITH TRACE FINE SAND, MOIST

85 + 50.00

(A) RESIDUAL: STIFF, RED, TAN AND ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

STIFF, TAN AND ORANGE, CLAYEY SILT WITH TRACE FINE SAND, MOIST

85 + 00.00

RESIDUAL: STIFF, RED, TAN AND ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

STIFF, TAN AND ORANGE, CLAYEY SILT WITH TRACE FINE SAND, MOIST

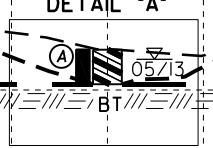
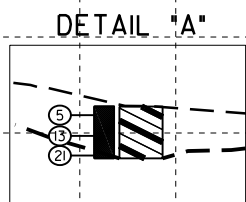
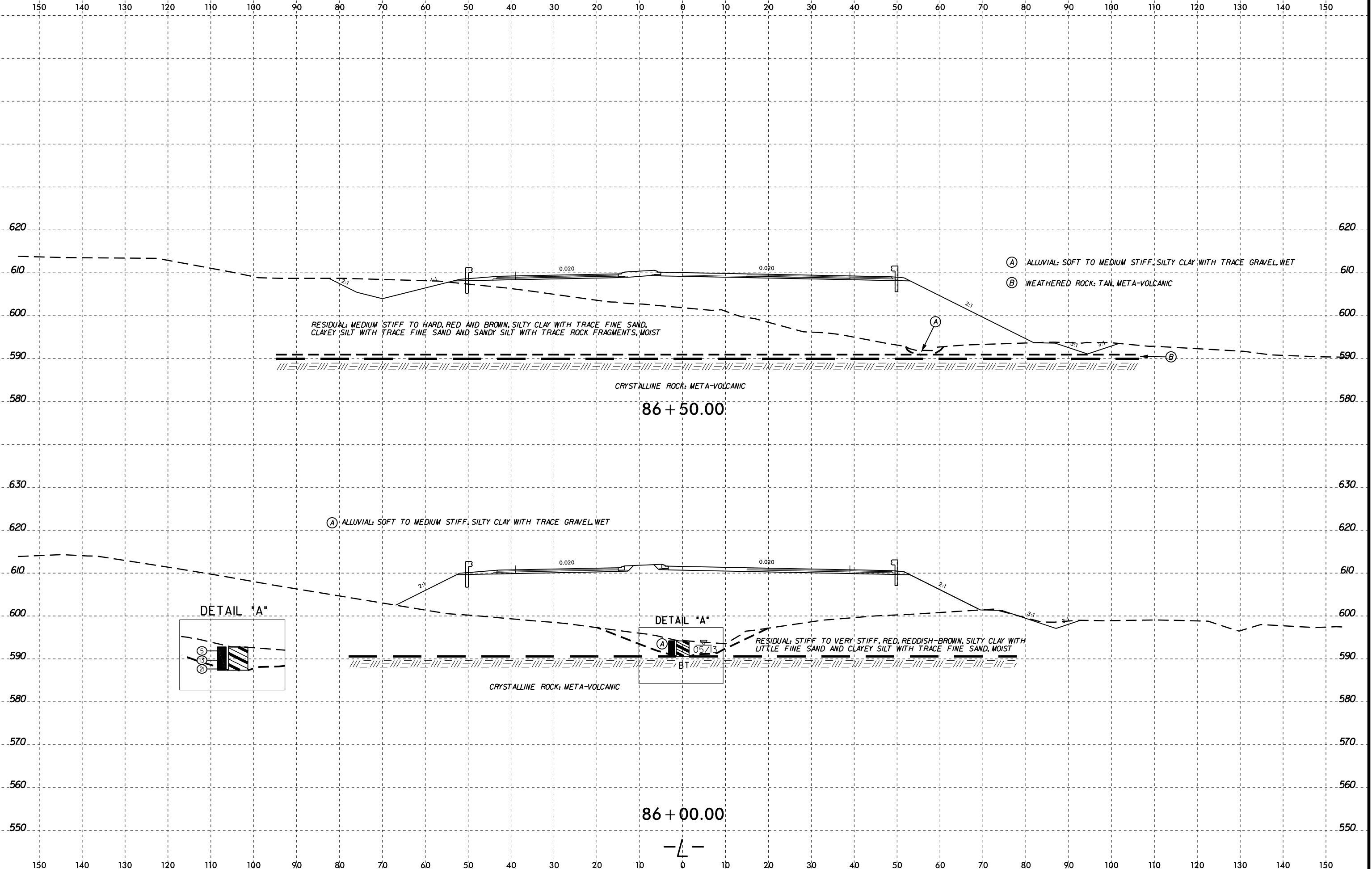
84 + 50.00

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8/23/99

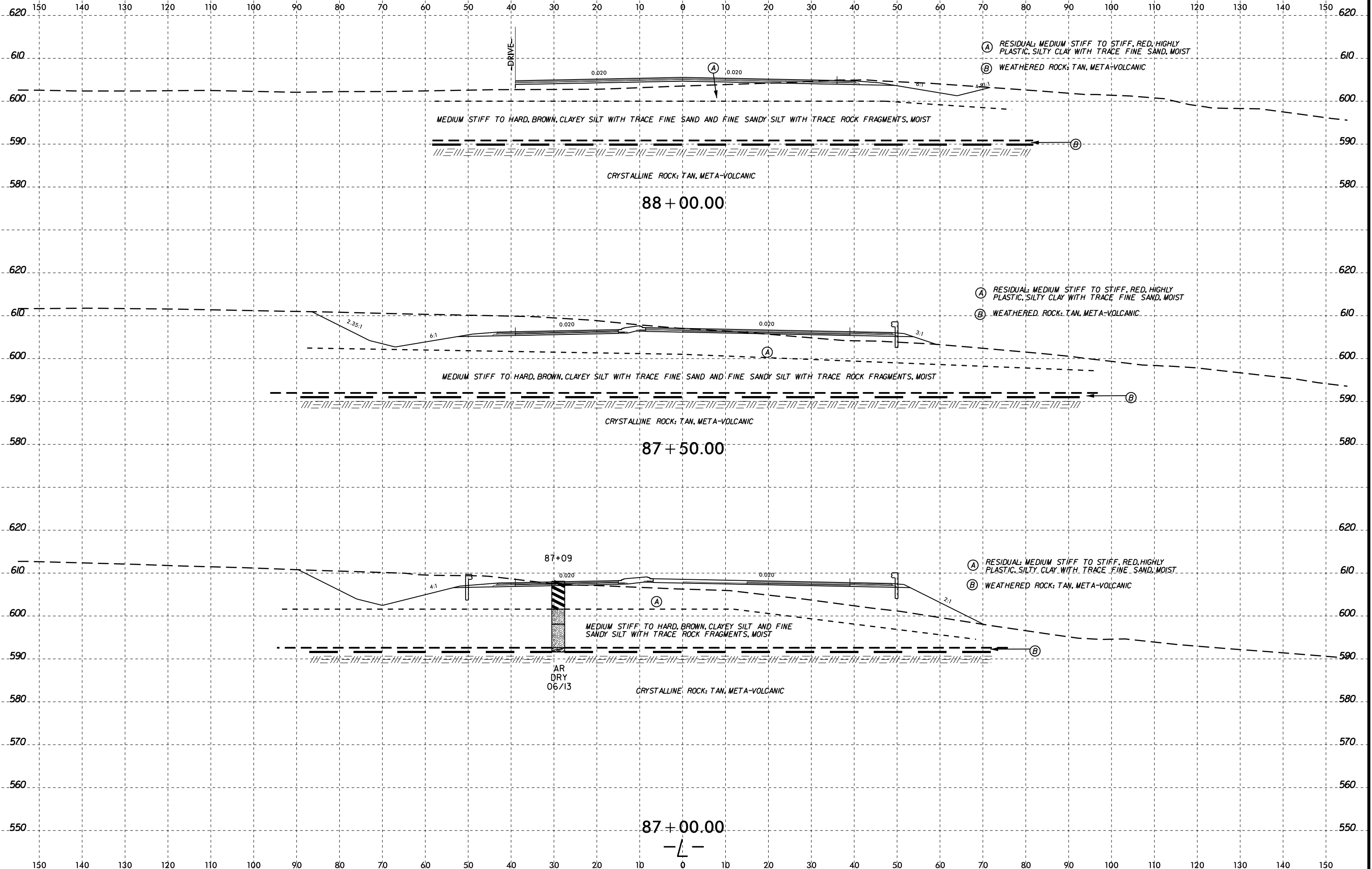


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	124



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8/23/99

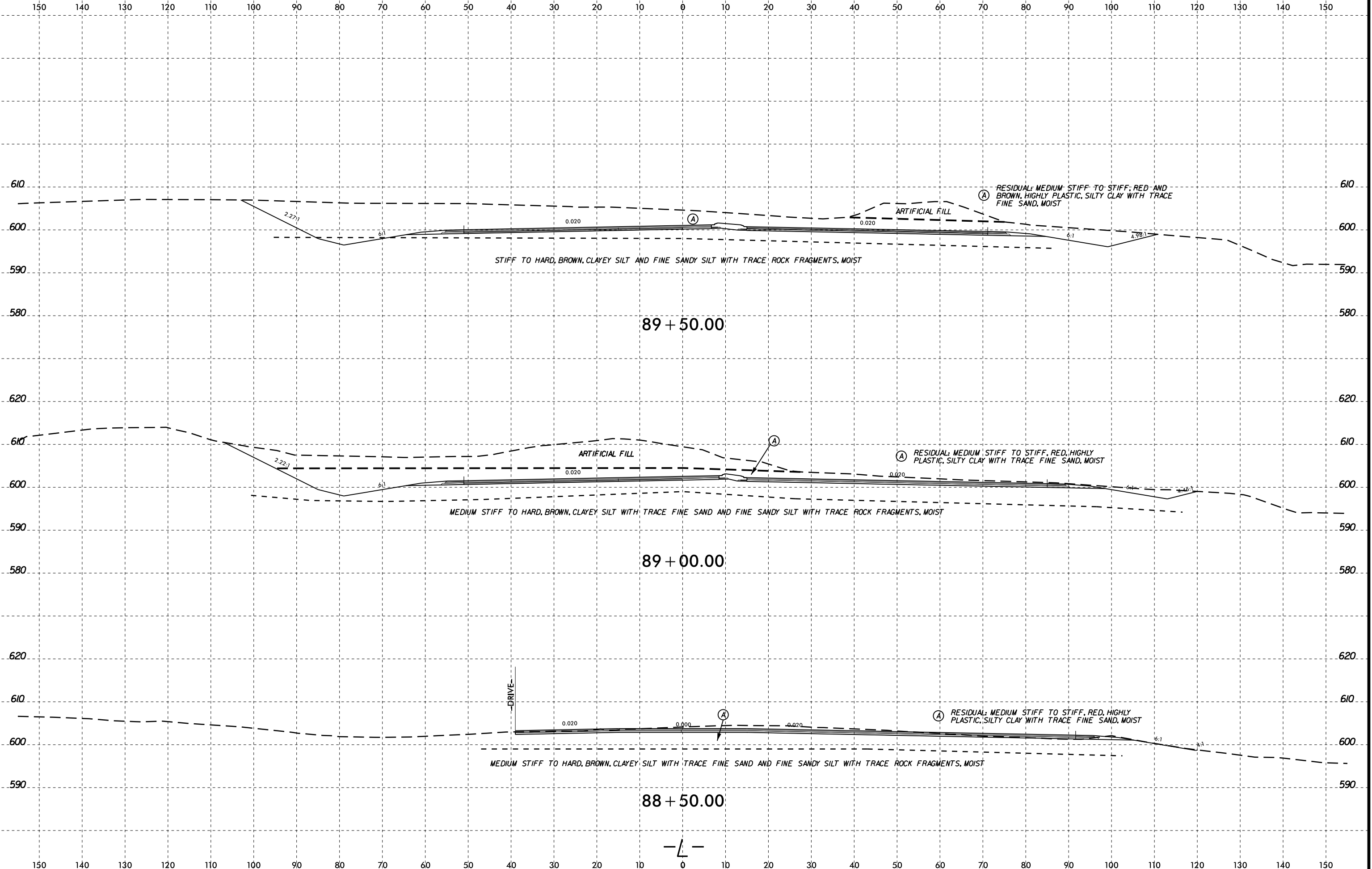


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8/23/99

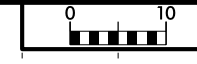


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	126

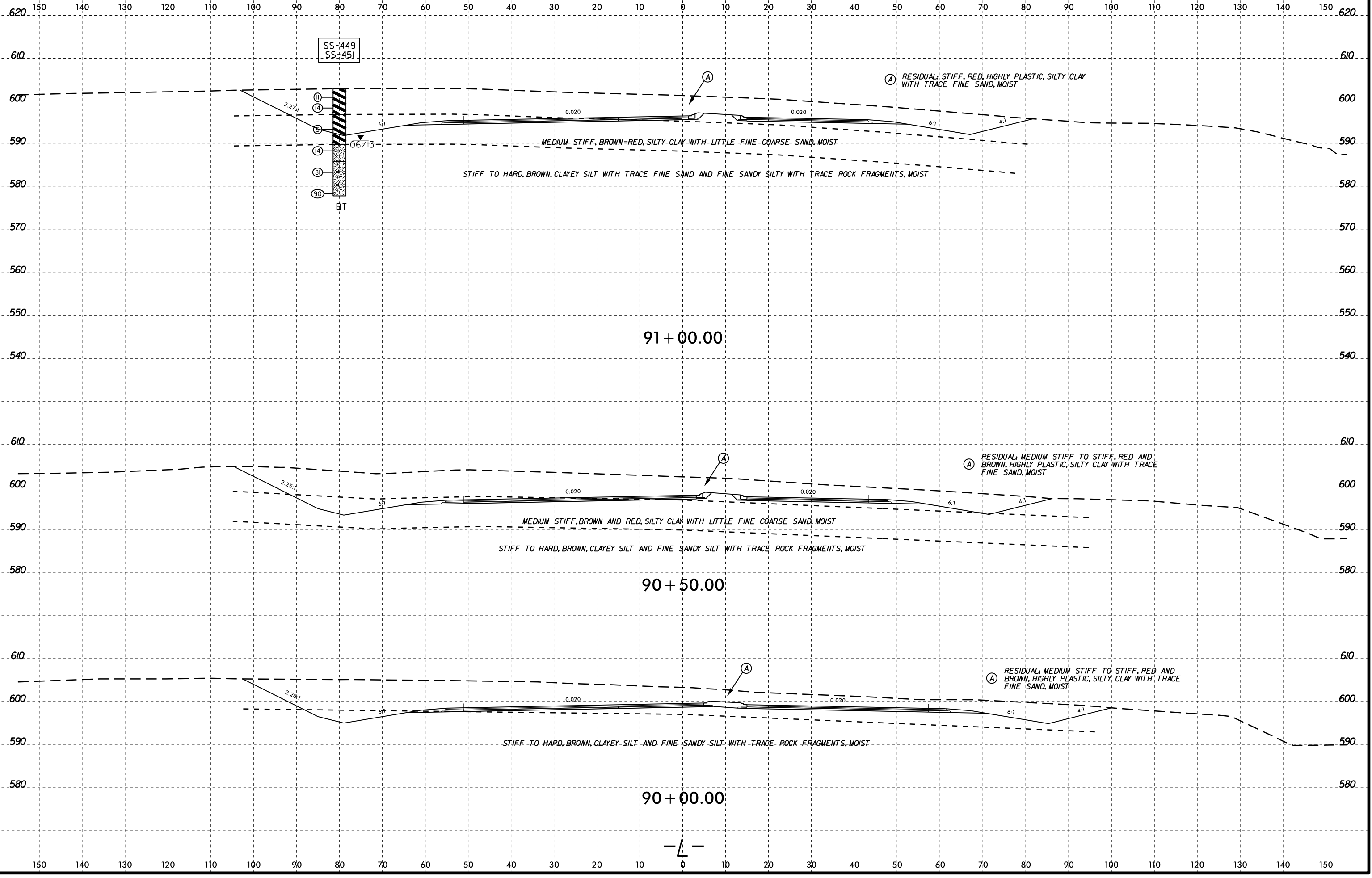


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	127

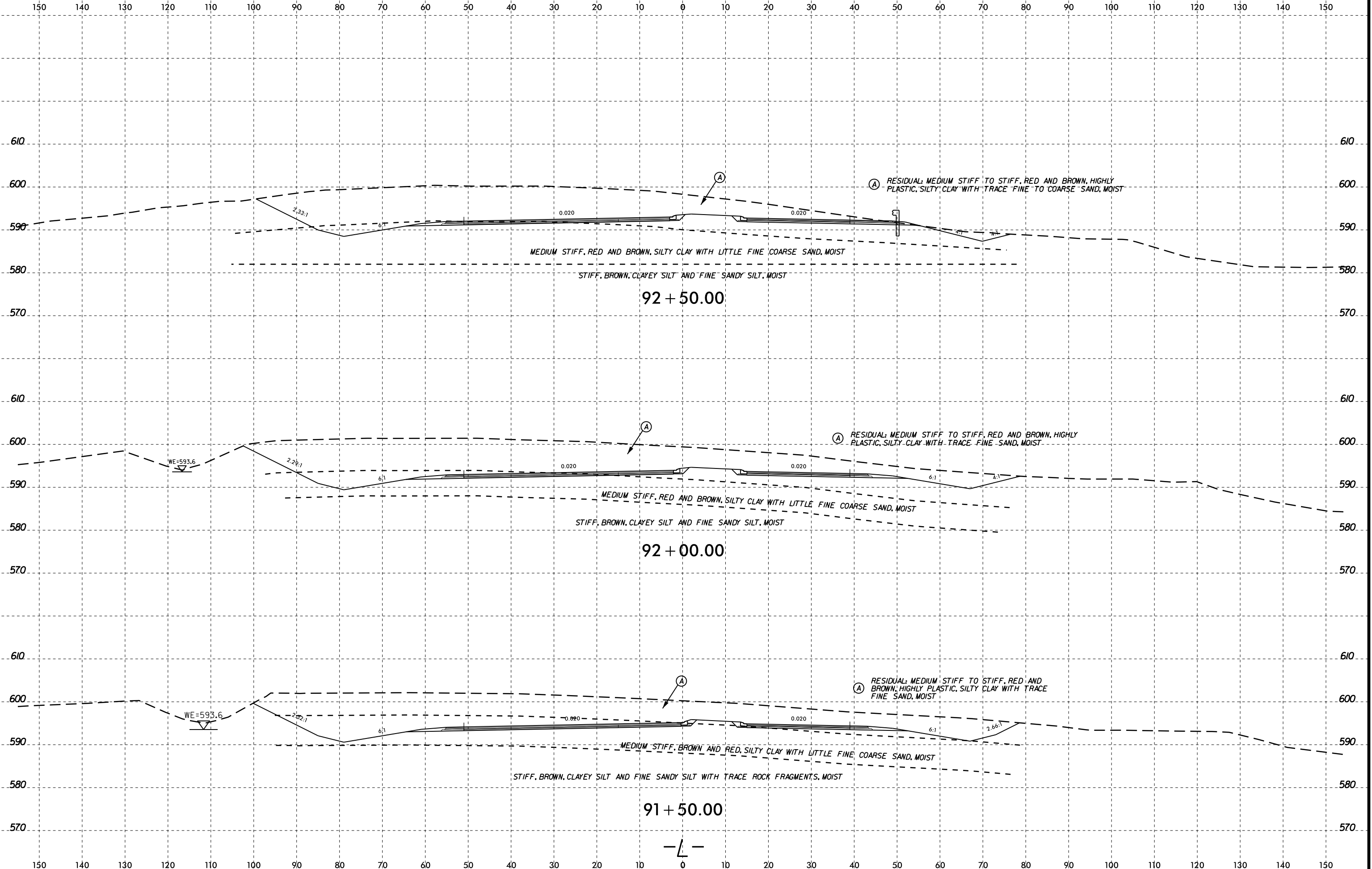


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	128

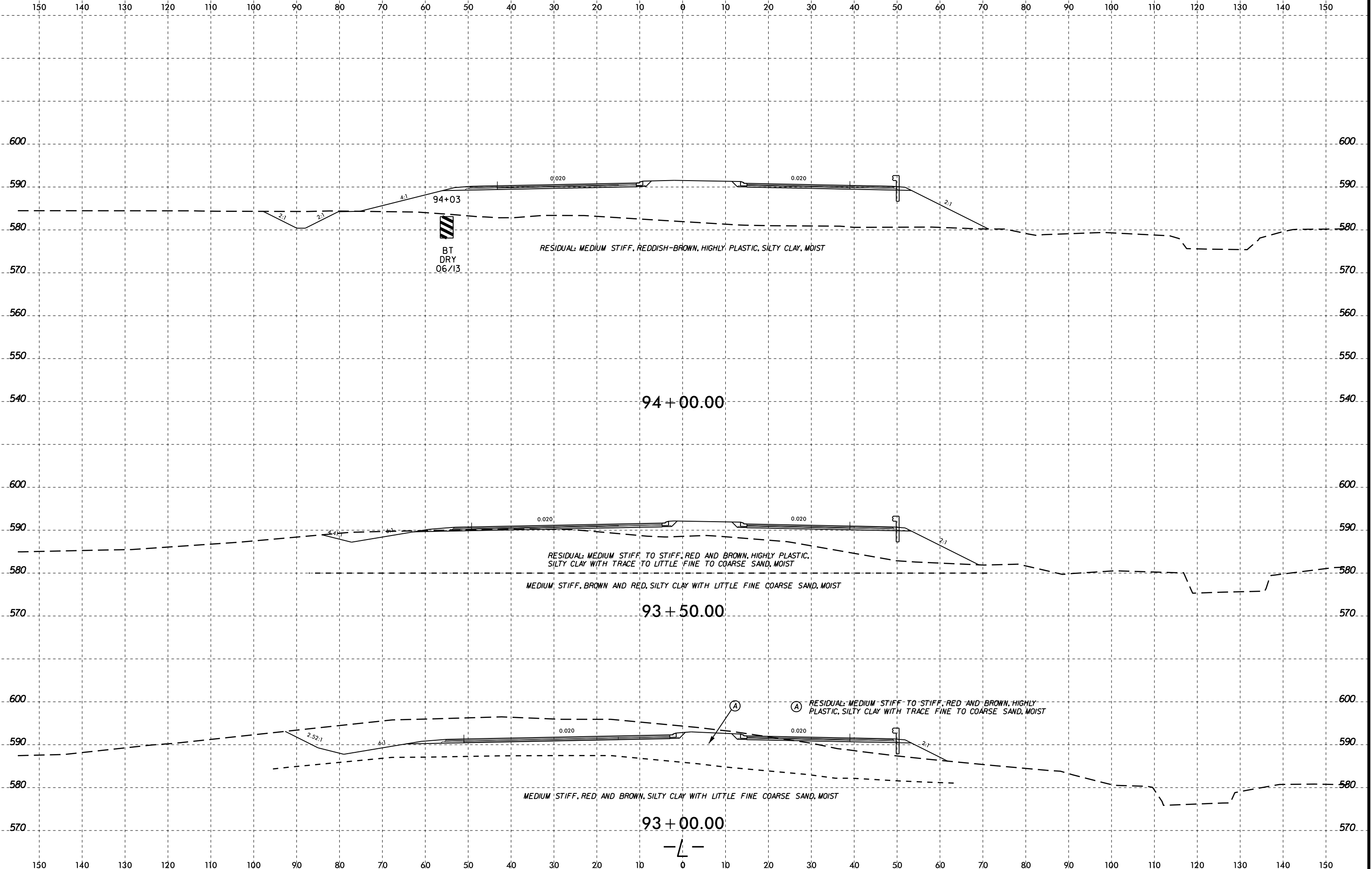


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	129

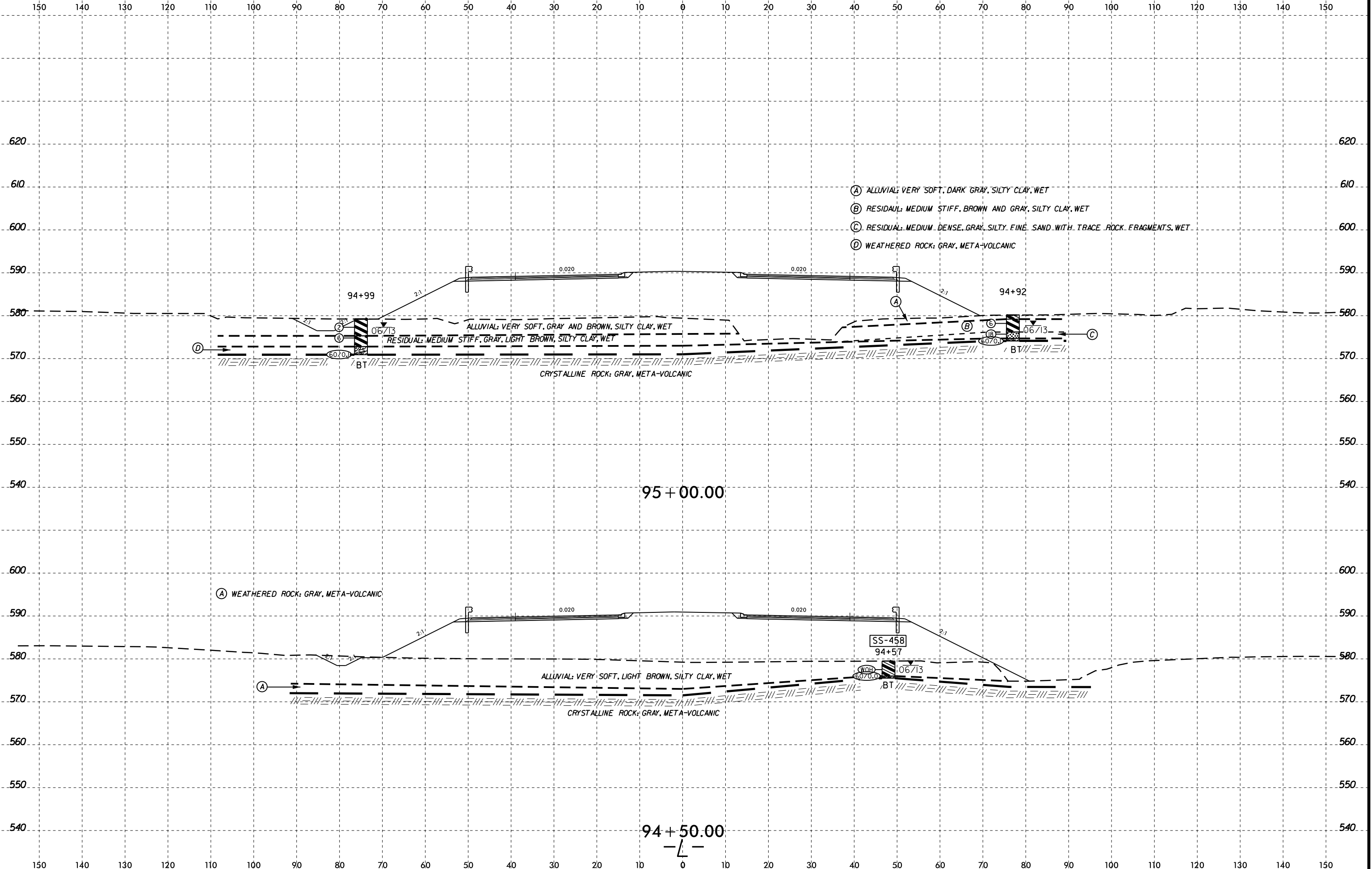


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	130



- (A) ALLUVIAL: VERY SOFT, DARK GRAY, SILTY CLAY, WET
- (B) RESIDUAL: MEDIUM STIFF, BROWN AND GRAY, SILTY CLAY, WET
- (C) RESIDUAL: MEDIUM DENSE, GRAY, SILTY FINE SAND WITH TRACE ROCK FRAGMENTS, WET
- (D) WEATHERED ROCK: GRAY, META-VOLCANIC

ALLUVIAL: VERY SOFT, GRAY AND BROWN, SILTY CLAY, WET
 RESIDUAL: MEDIUM STIFF, GRAY, LIGHT BROWN, SILTY CLAY, WET
 CRYSTALLINE ROCK: GRAY, META-VOLCANIC

95 + 00.00

(A) WEATHERED ROCK: GRAY, META-VOLCANIC

ALLUVIAL: VERY SOFT, LIGHT BROWN, SILTY CLAY, WET
 CRYSTALLINE ROCK: GRAY, META-VOLCANIC

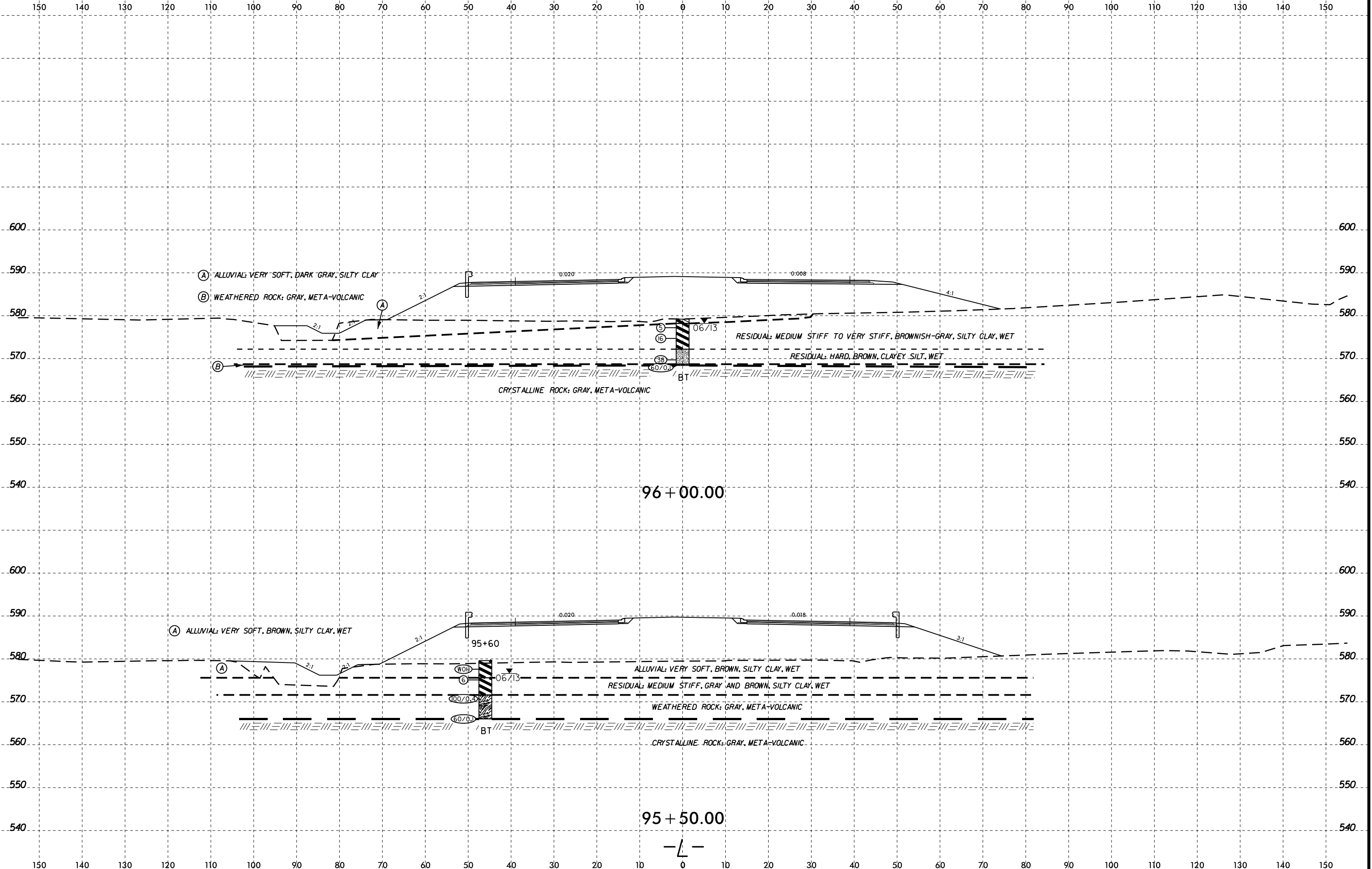
94 + 50.00

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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	131

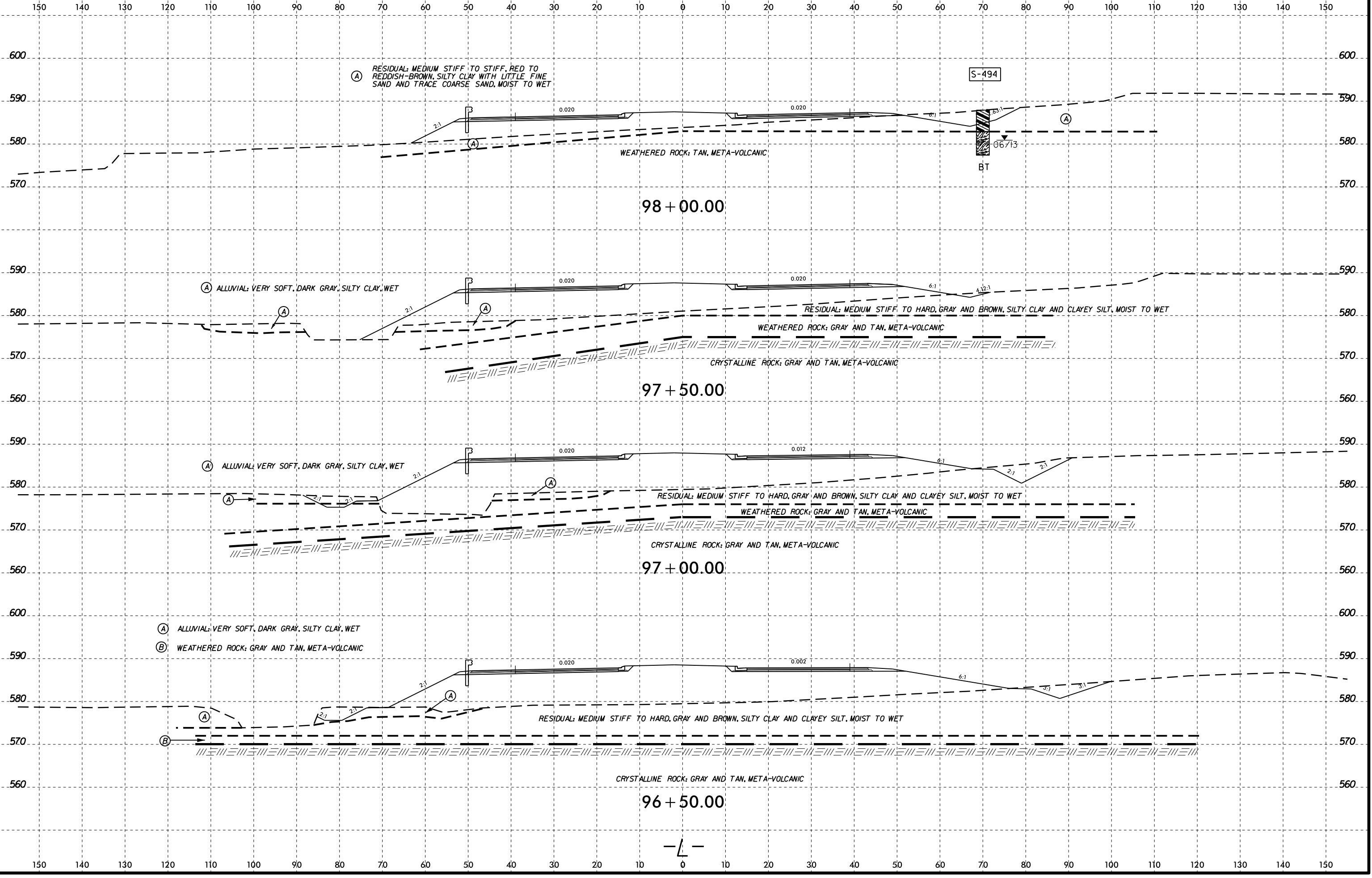


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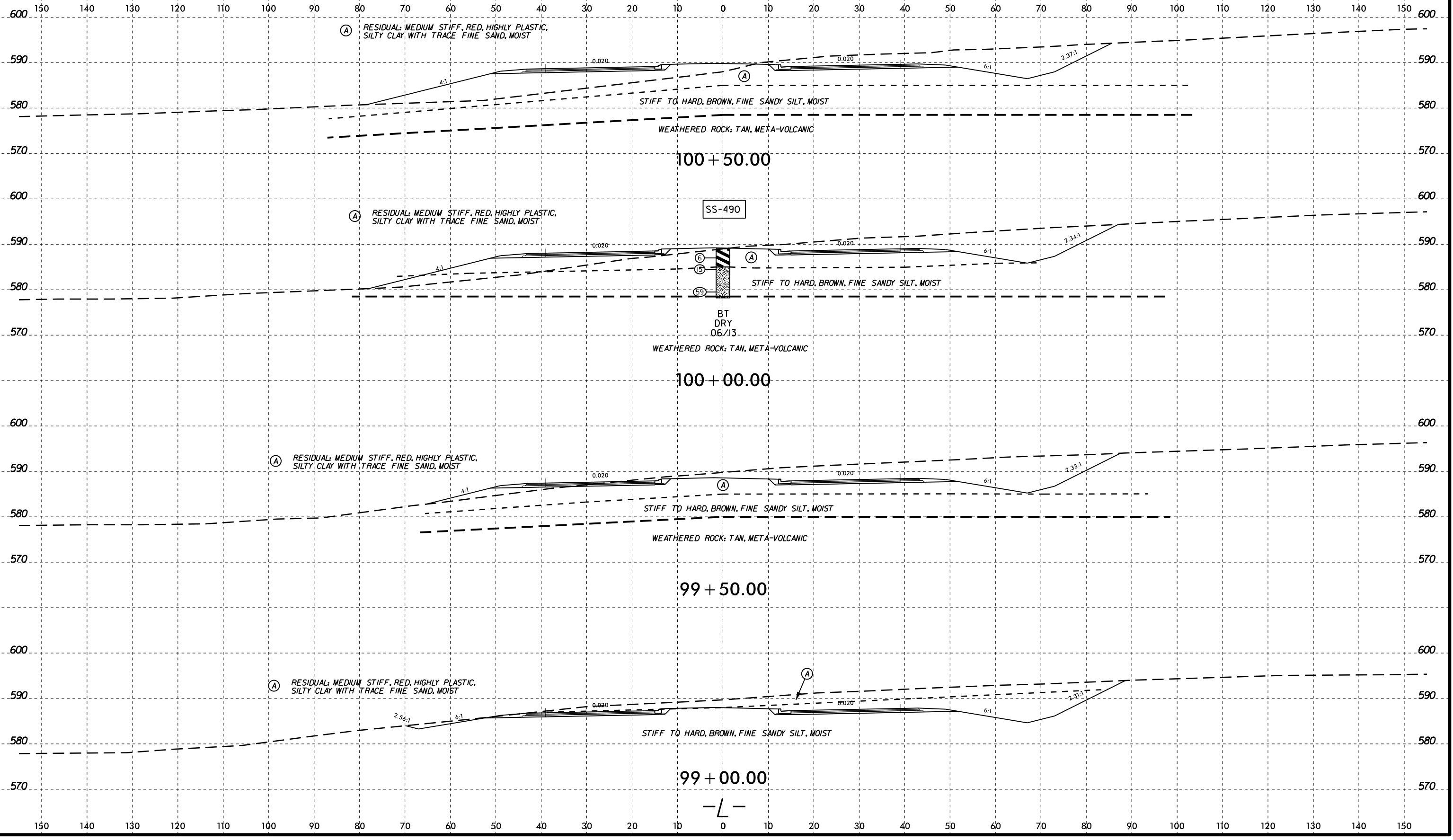
8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	132



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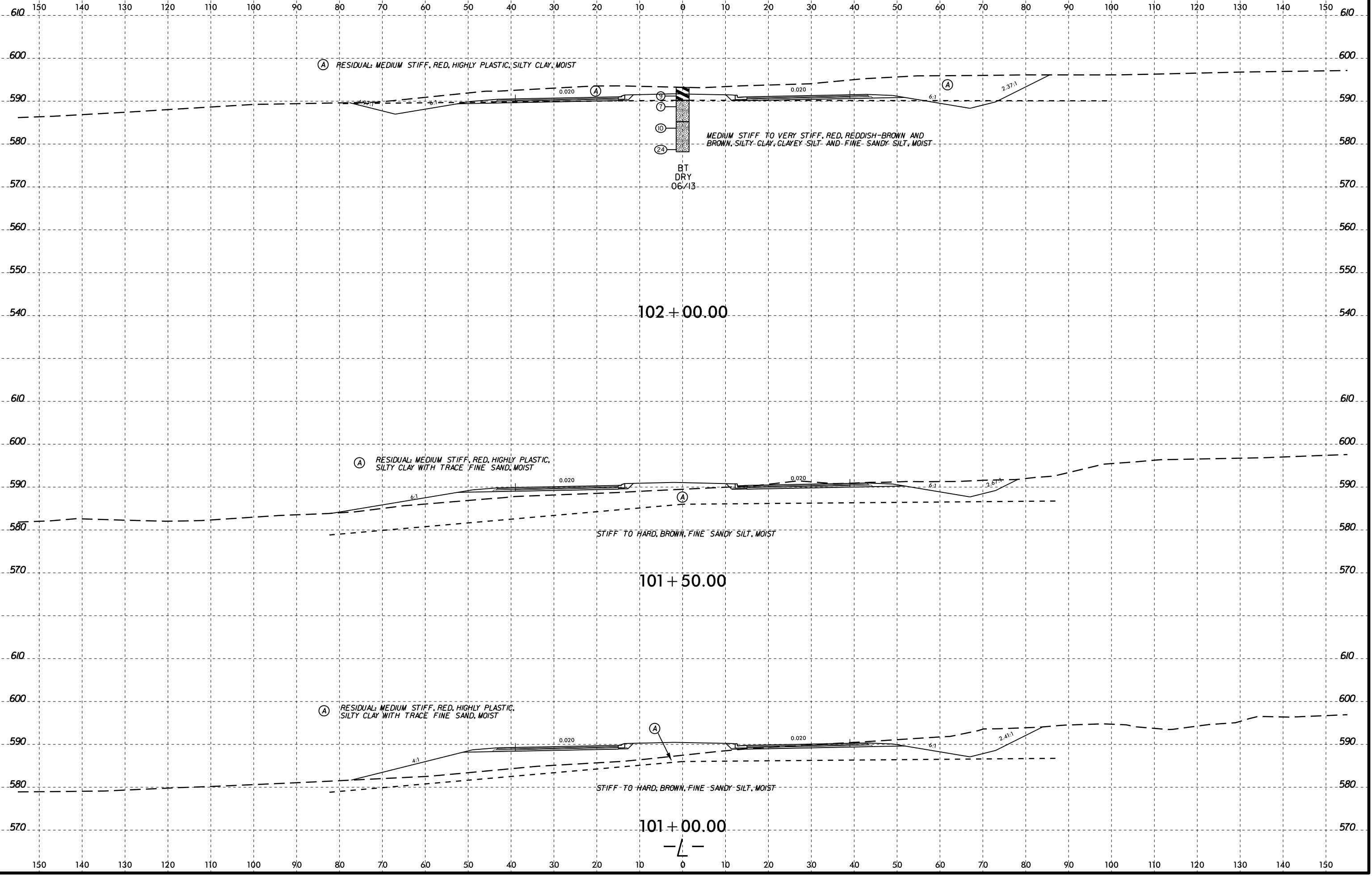
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 Colour:

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8/23/99

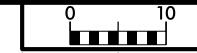


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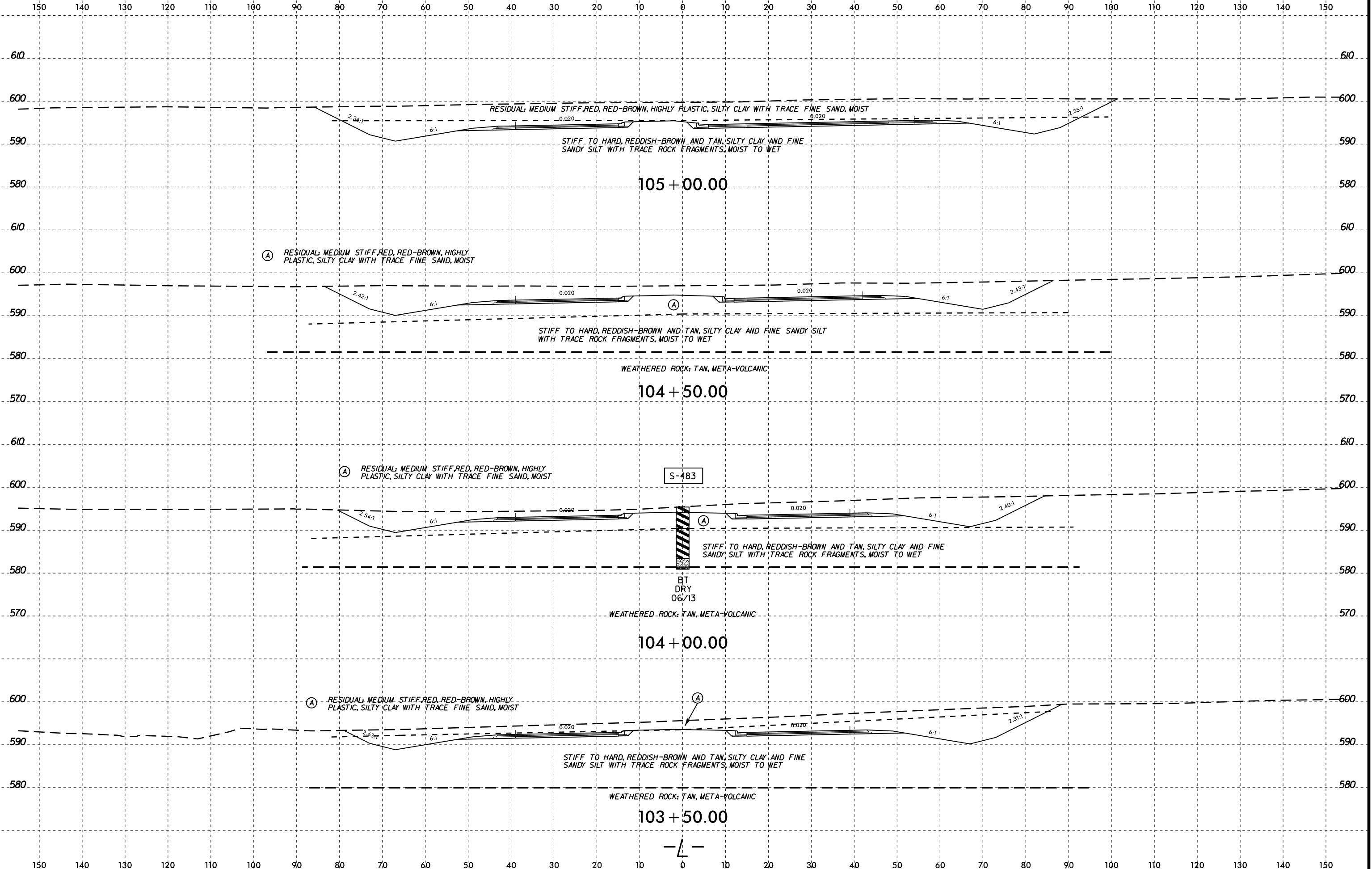


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8/23/99

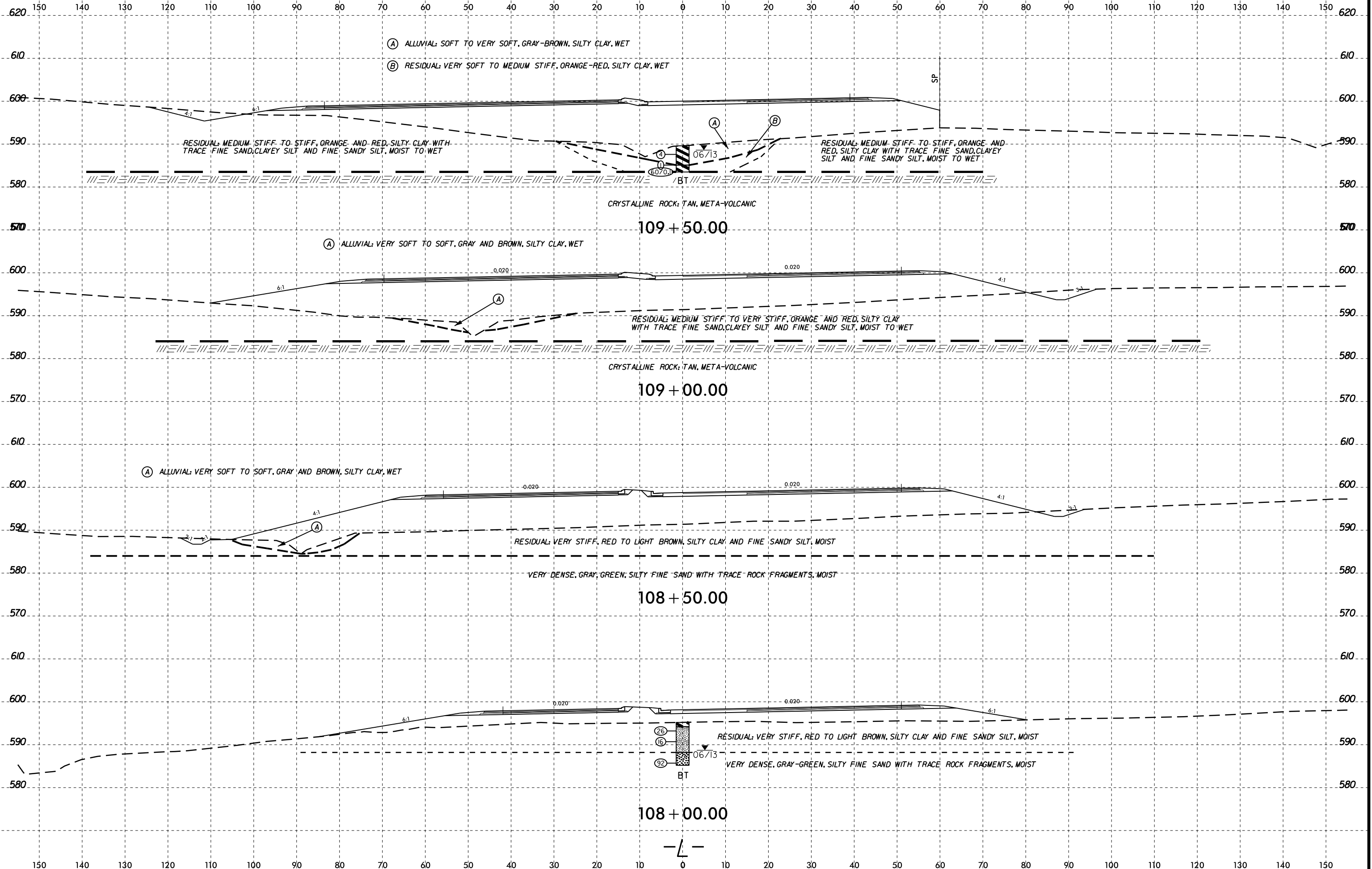


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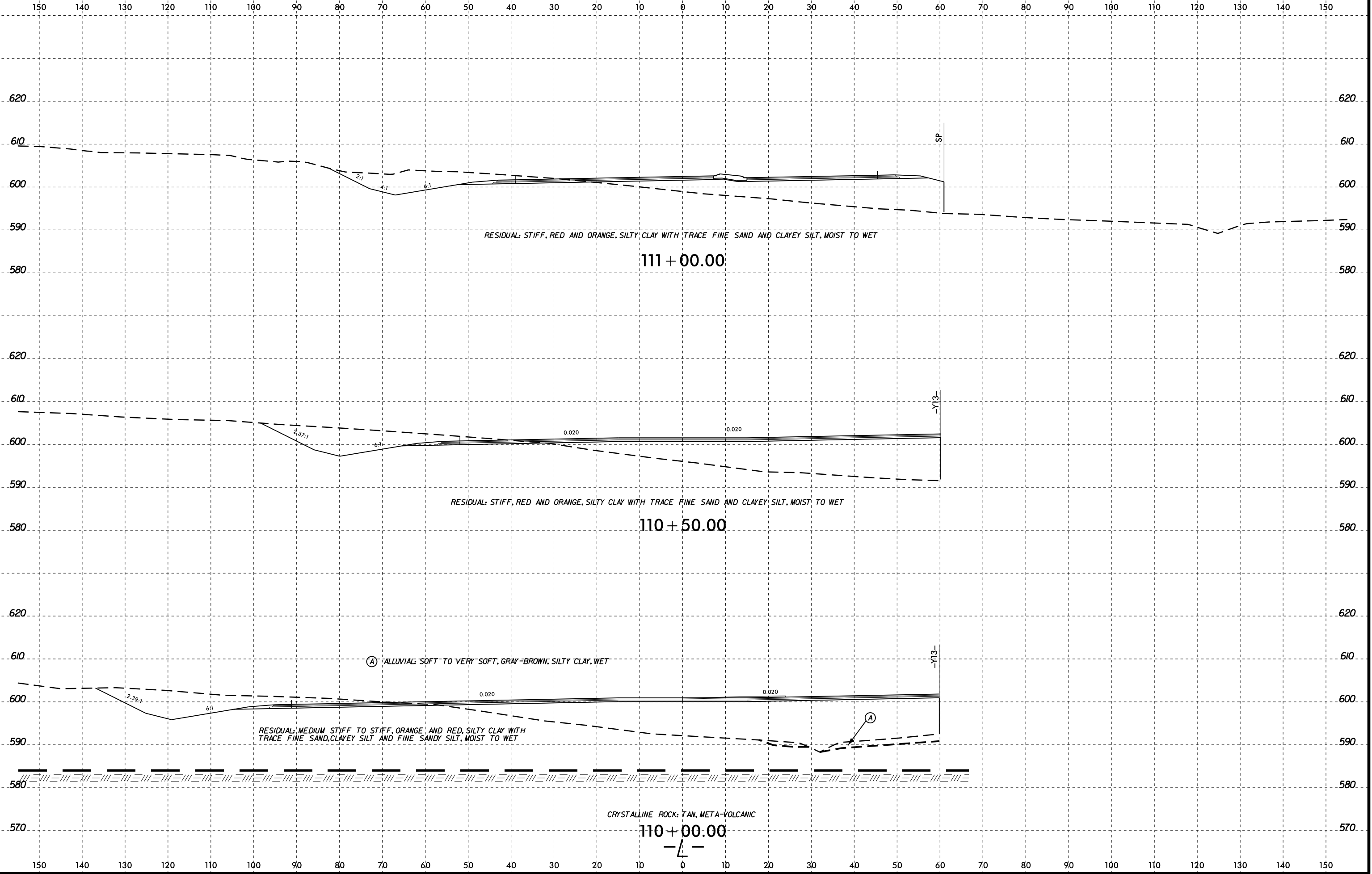
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8/23/99



03-NOV-2014 12:25
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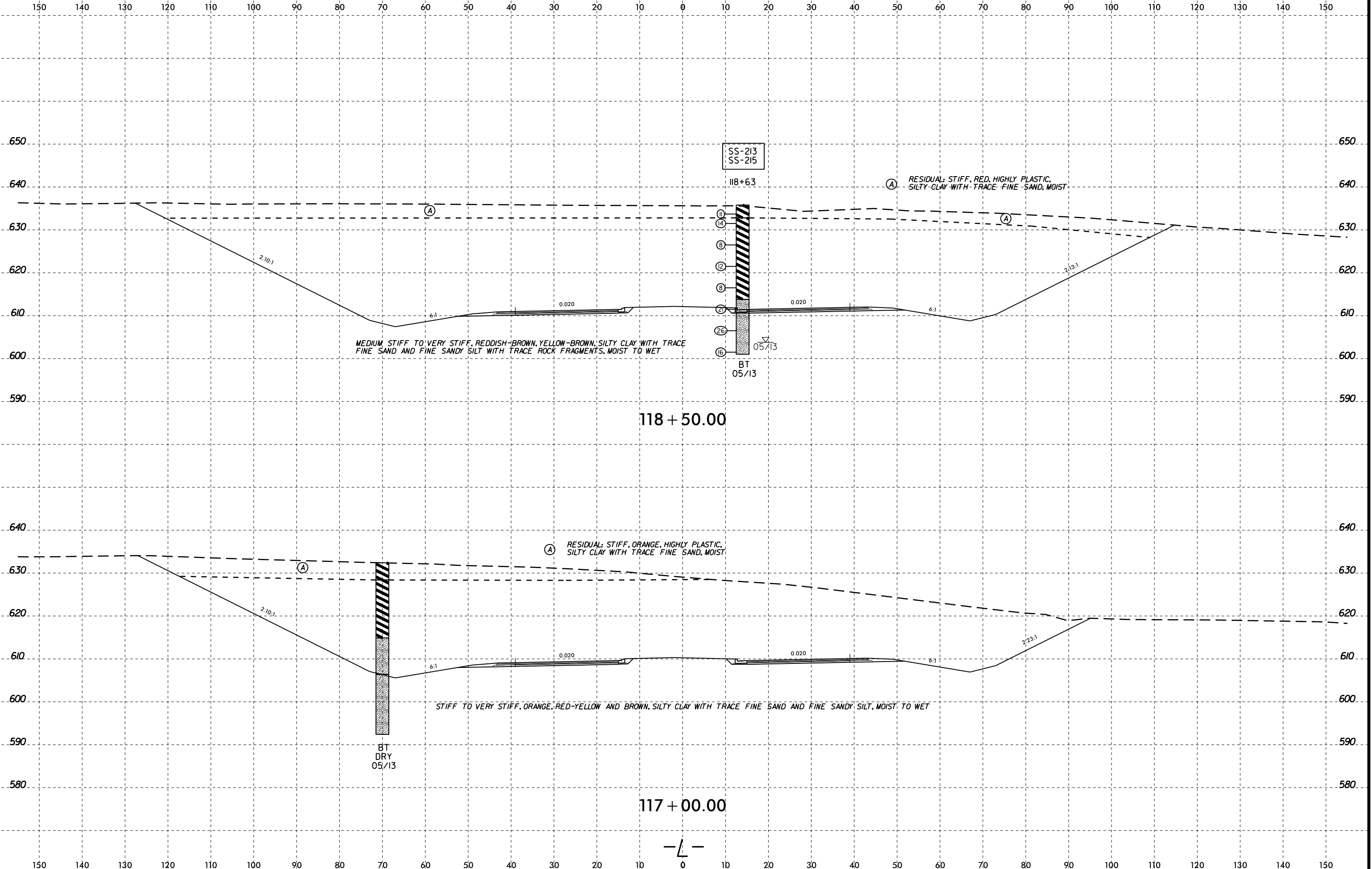
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8/23/99



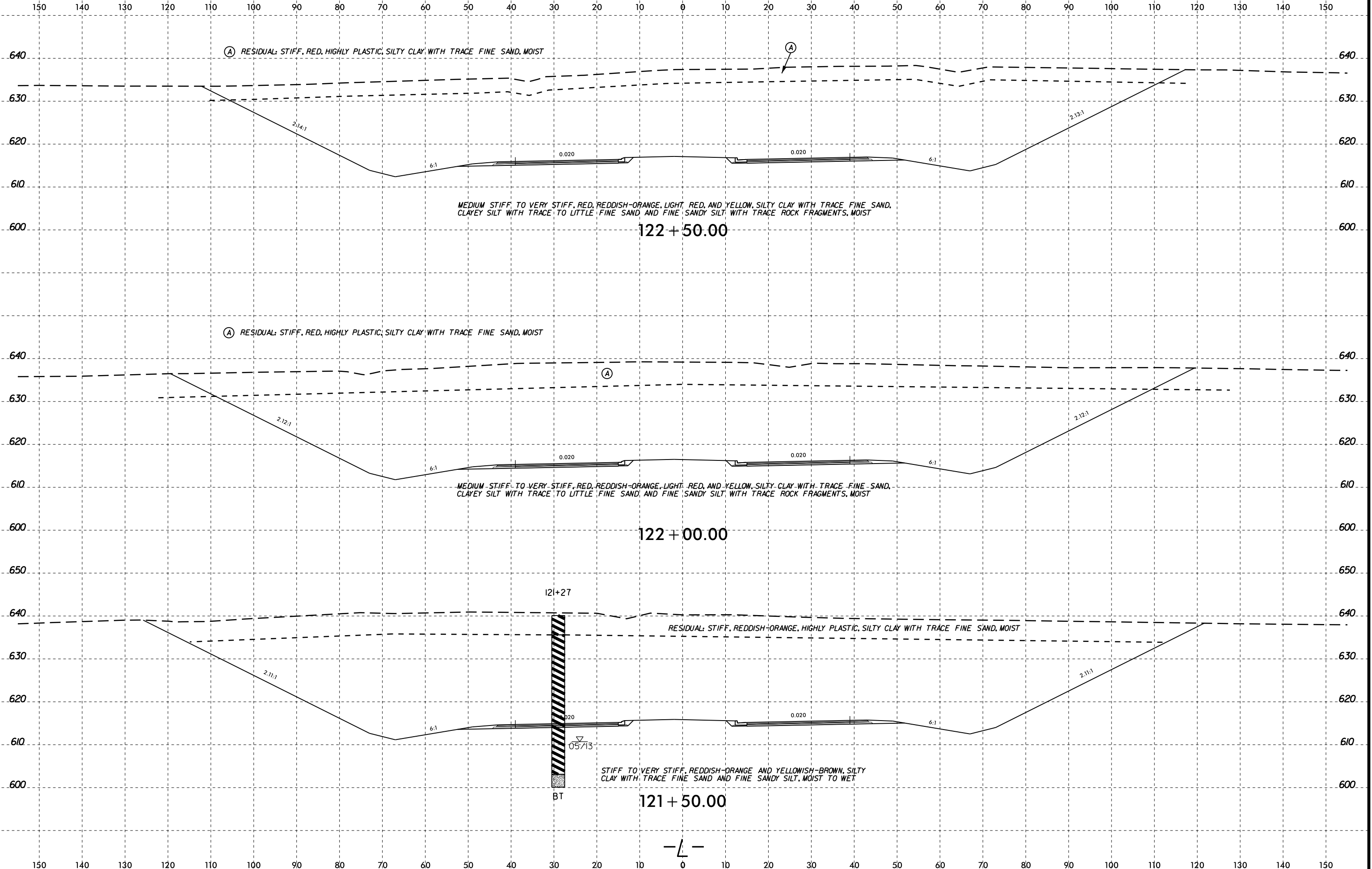
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U-3109A	139



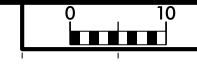
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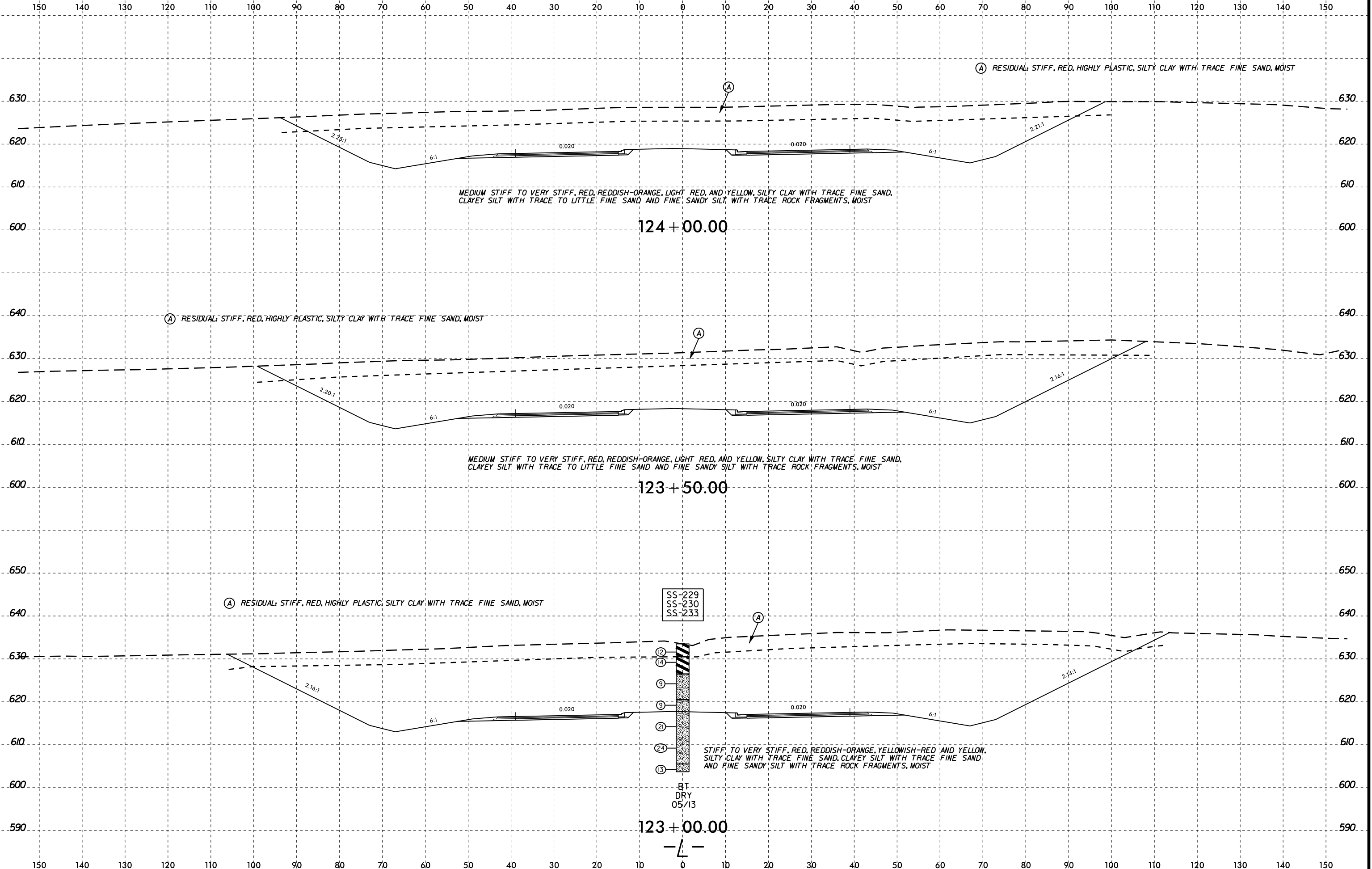
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8/23/99

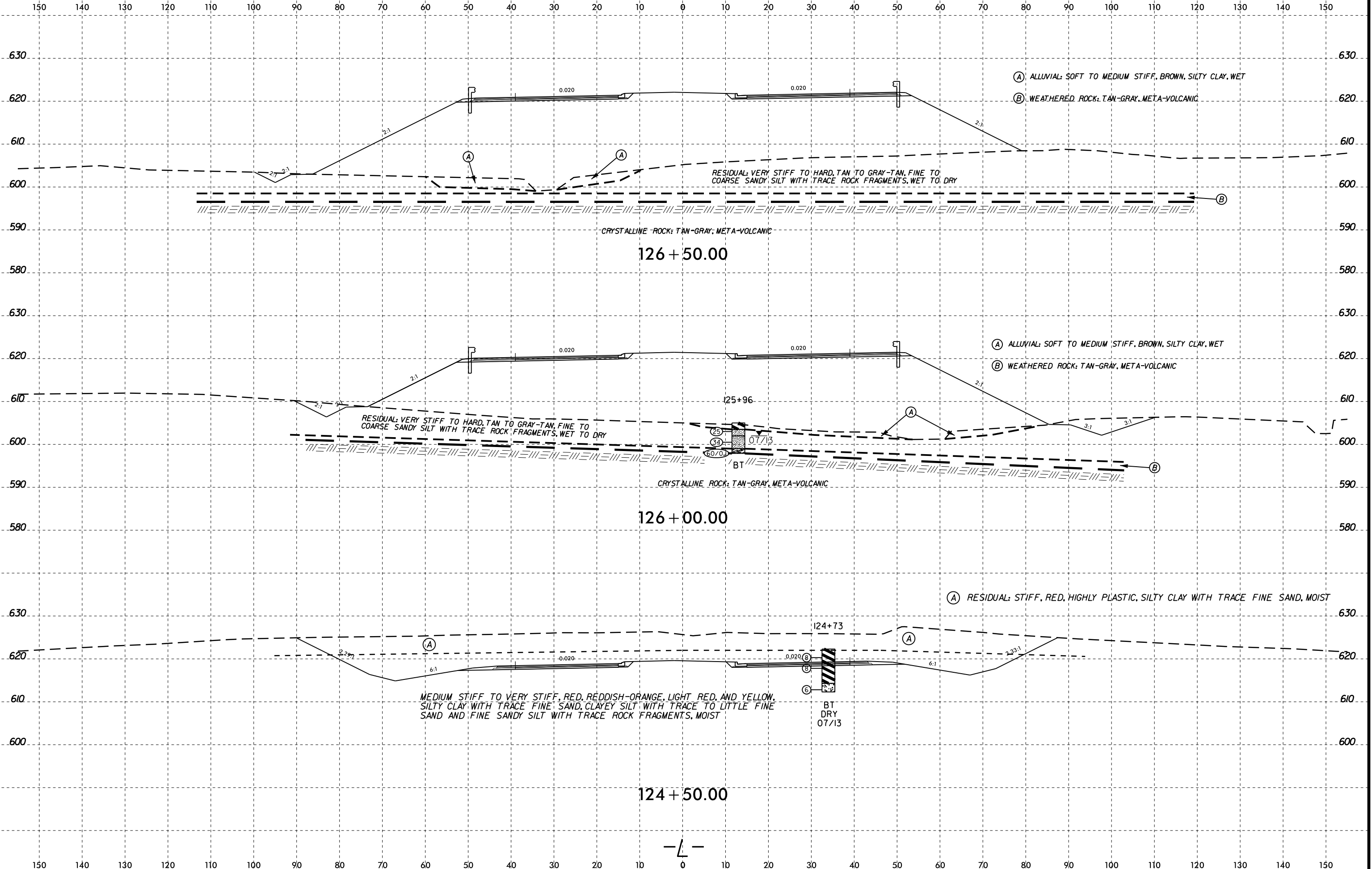


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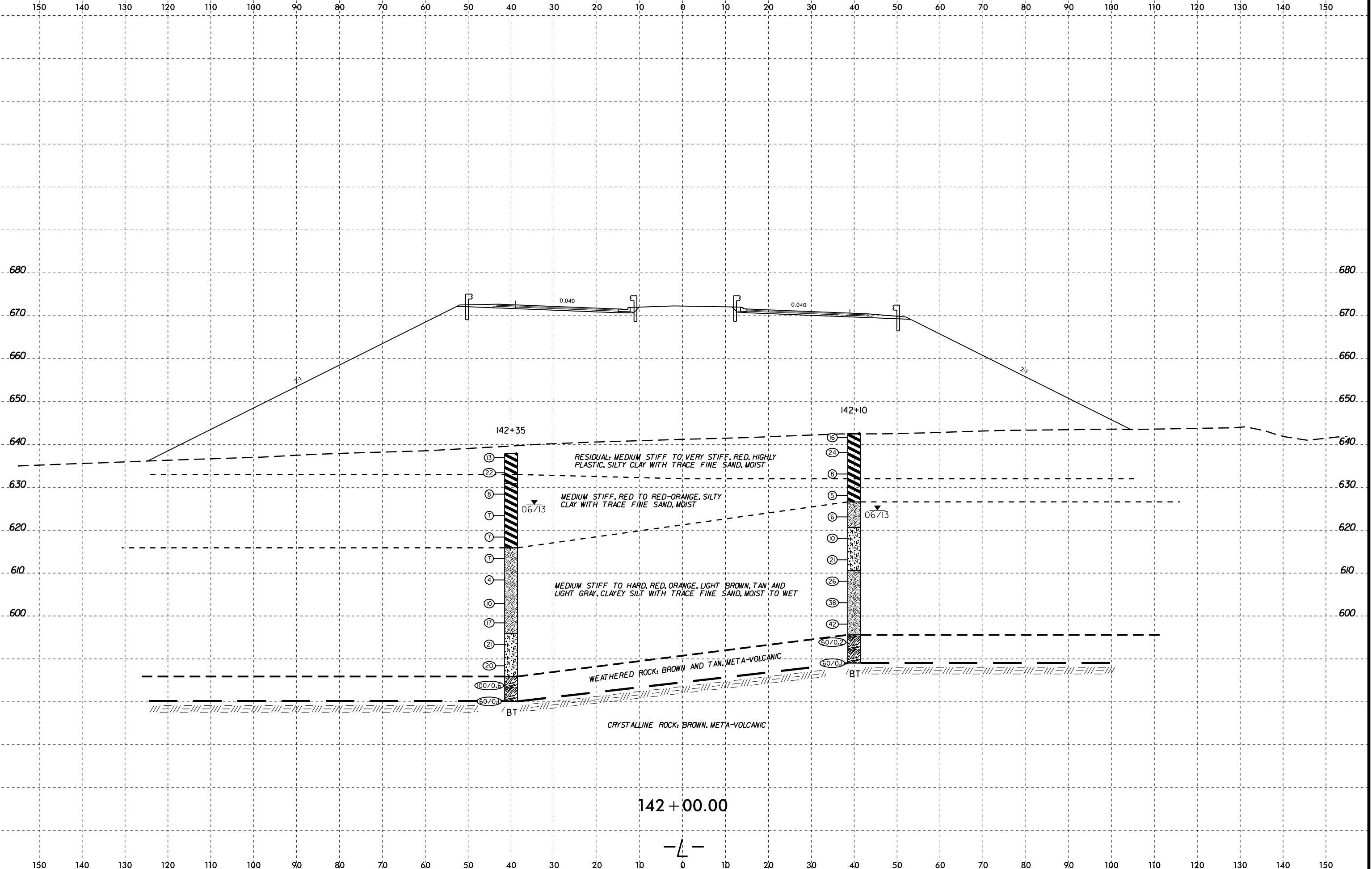
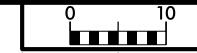
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8/23/99



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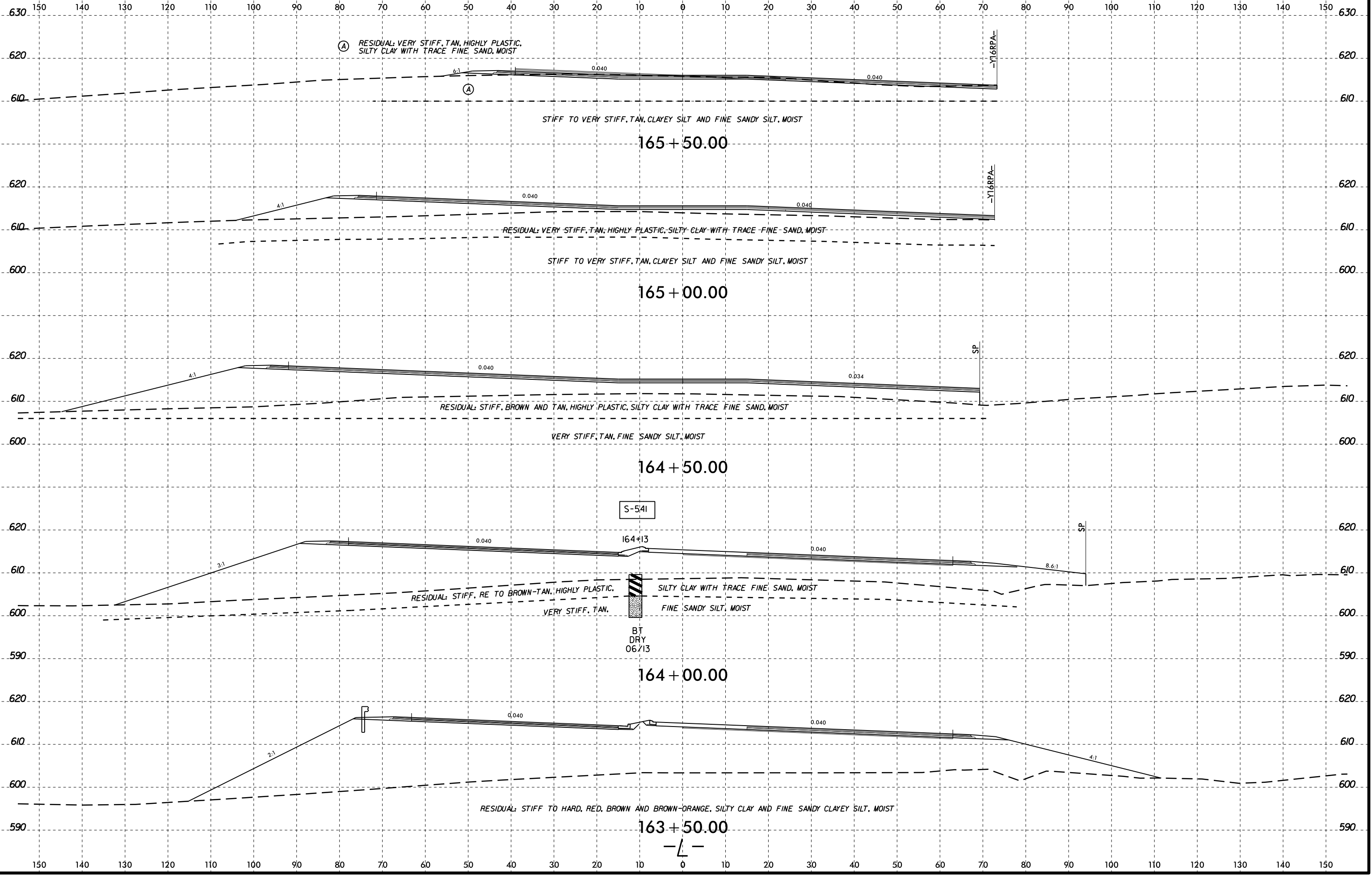


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8/23/99



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U-3109A	145

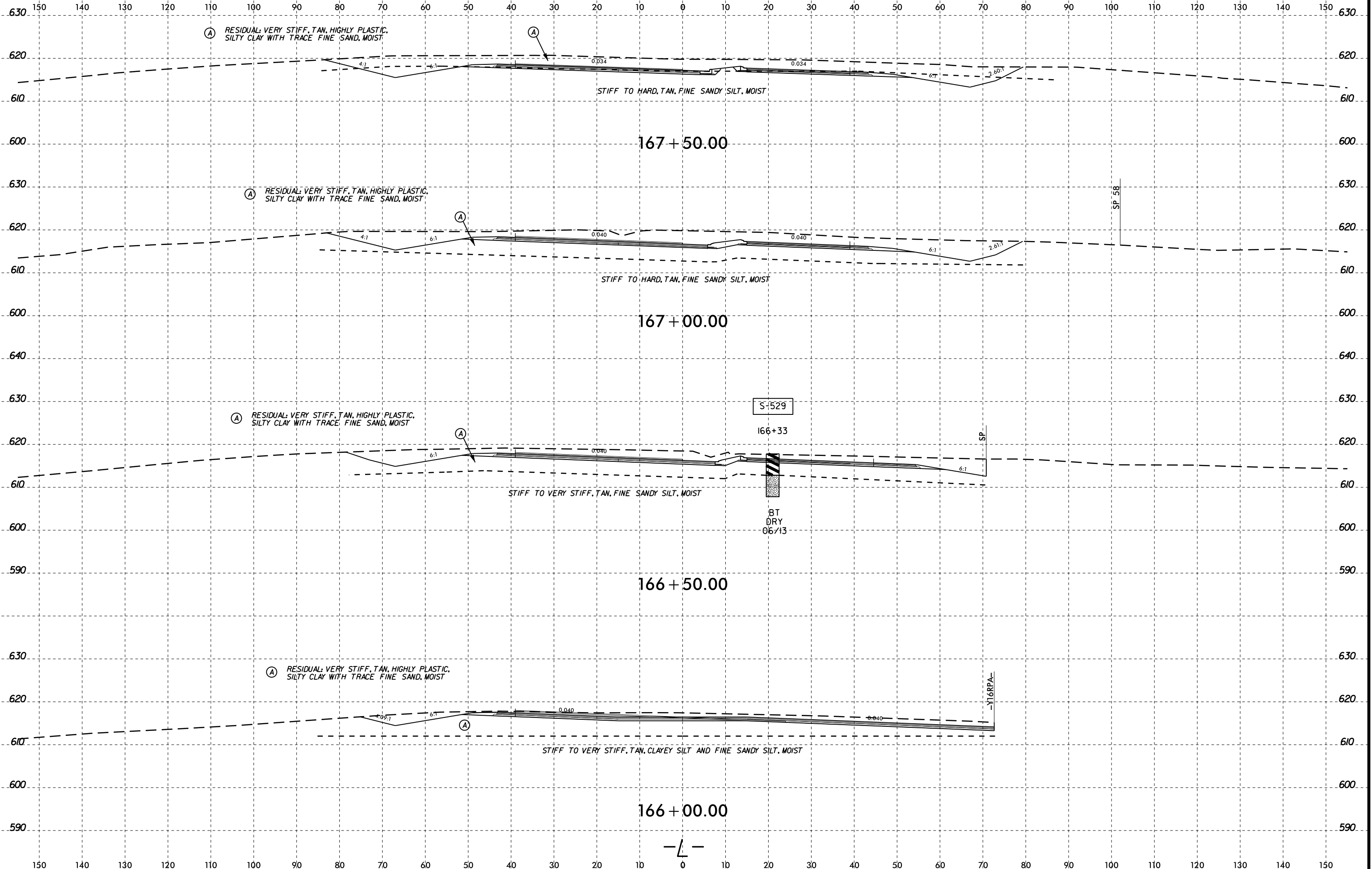


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	146



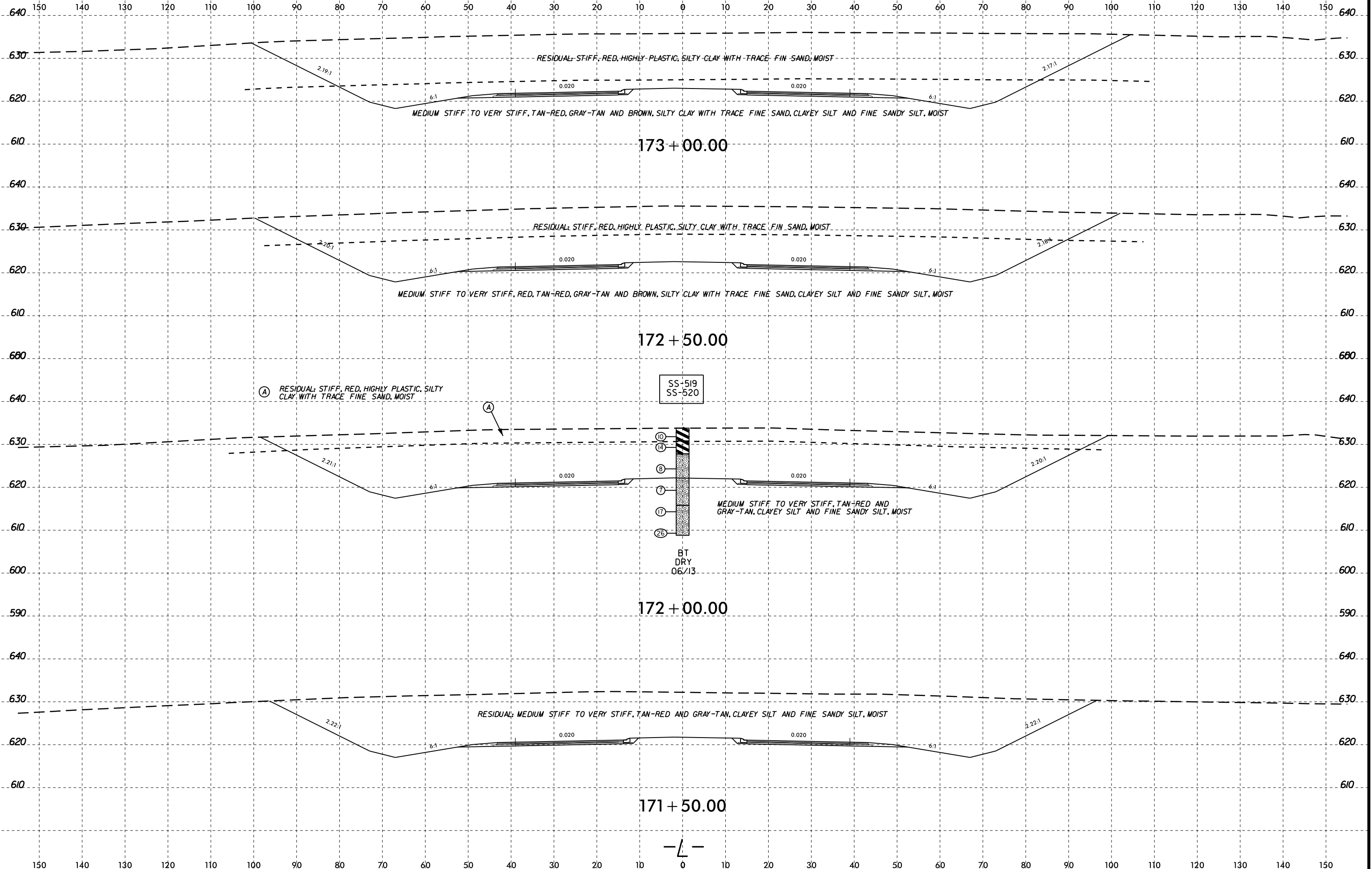
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8/23/99

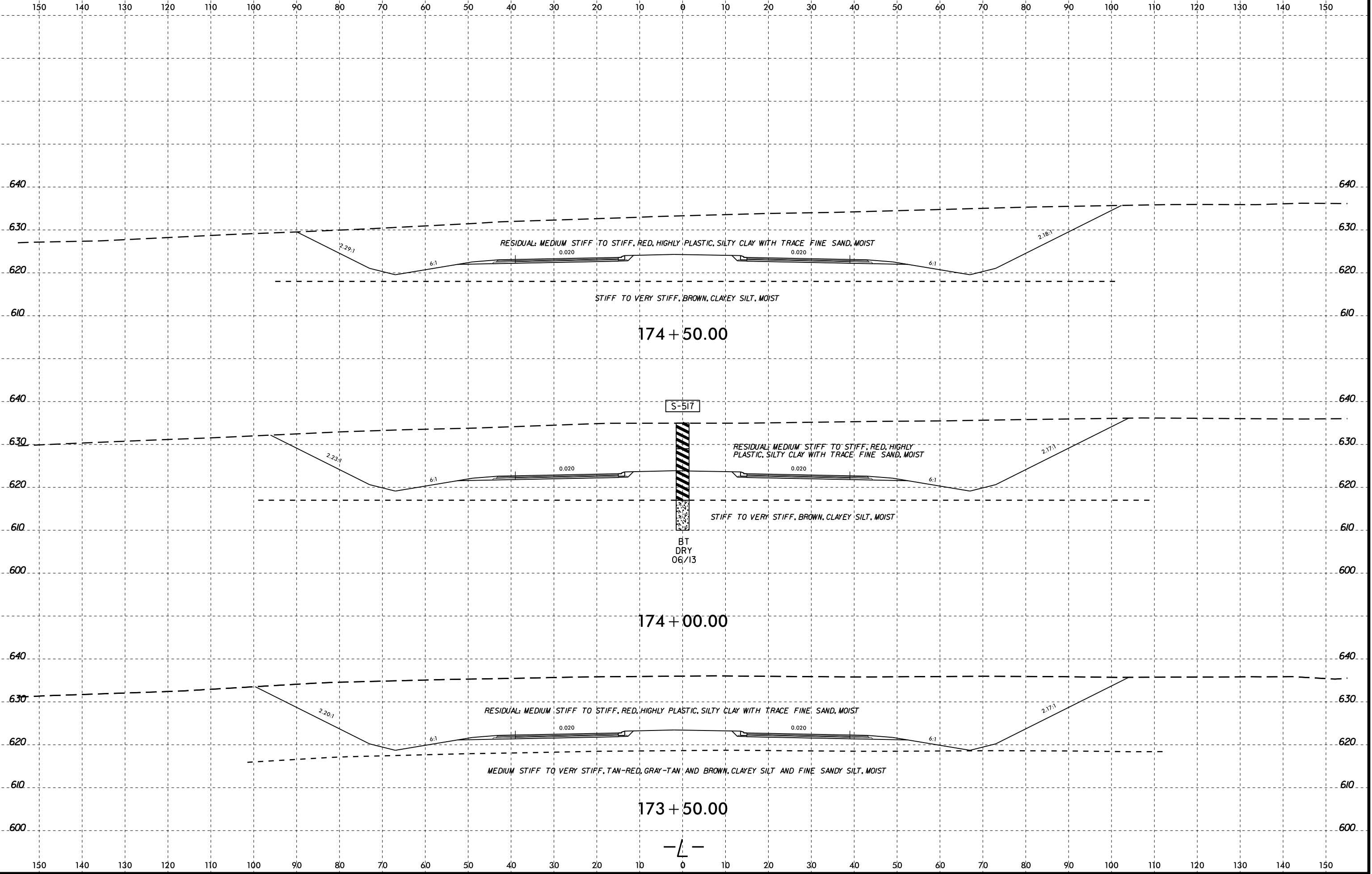


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	147



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8/23/99
03-NOV-2014 12:26
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174 + 50.00

S-517

BT
DRY
06/13

174 + 00.00

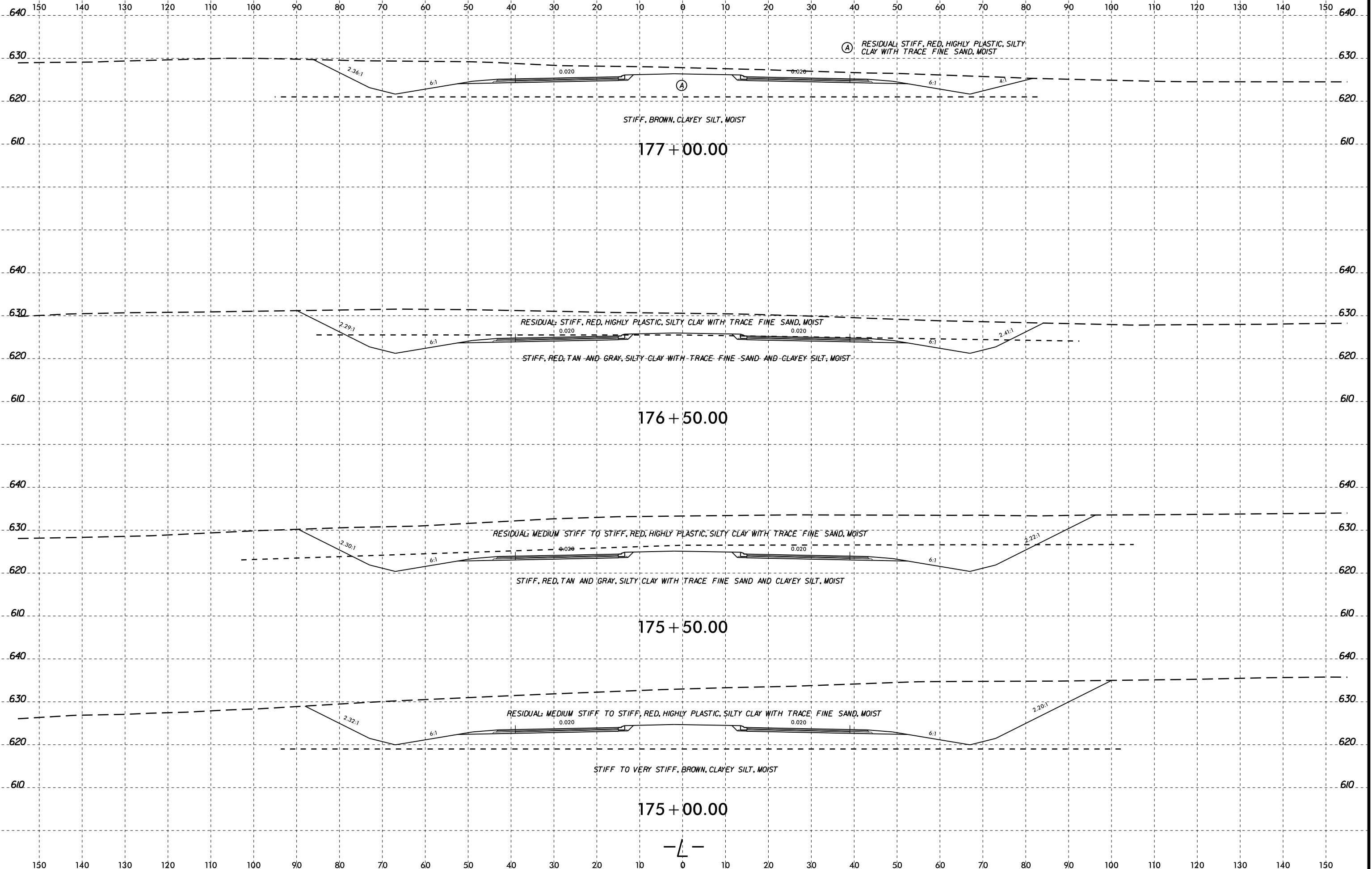
173 + 50.00

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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
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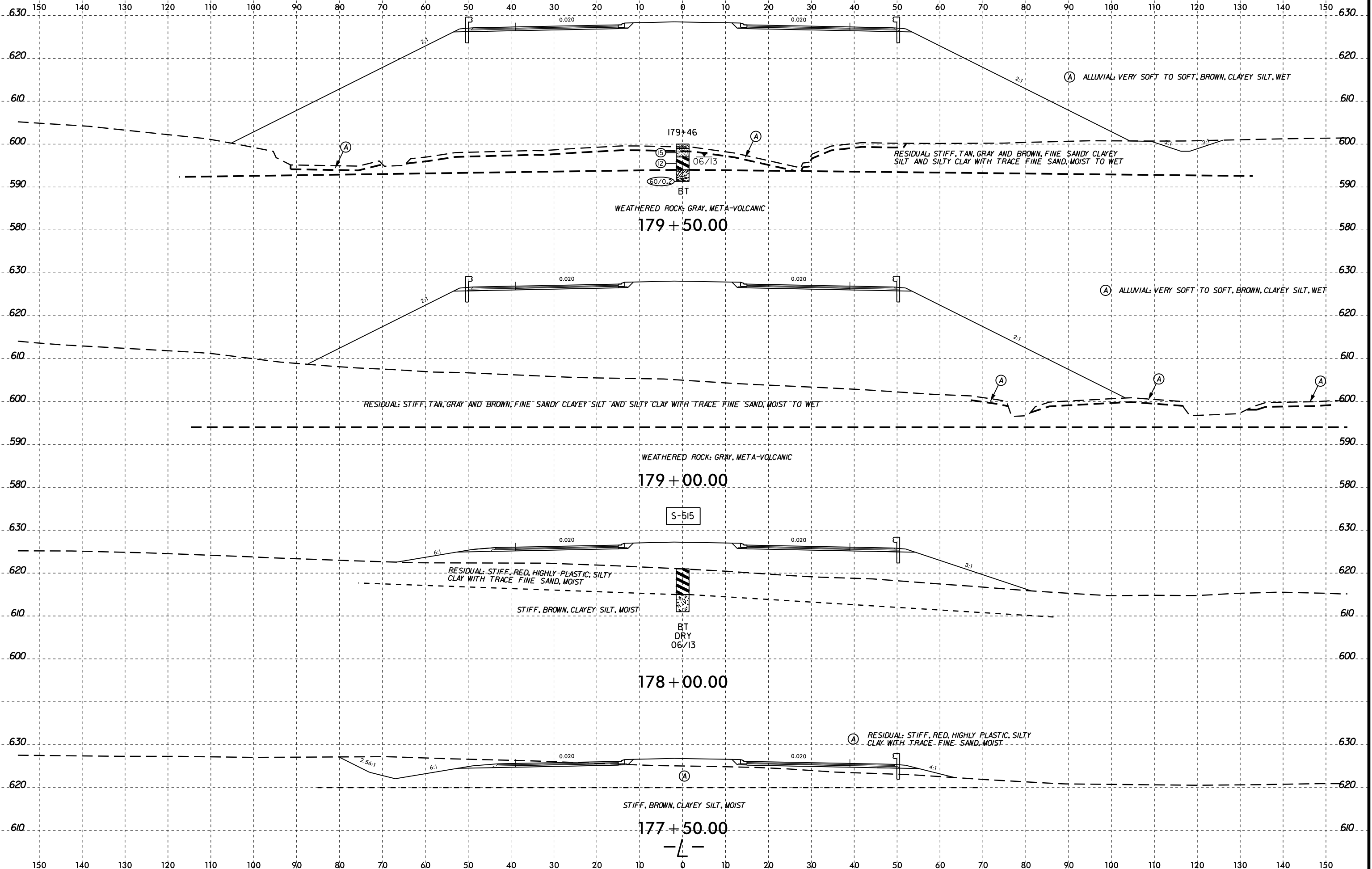


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8/23/99

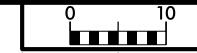


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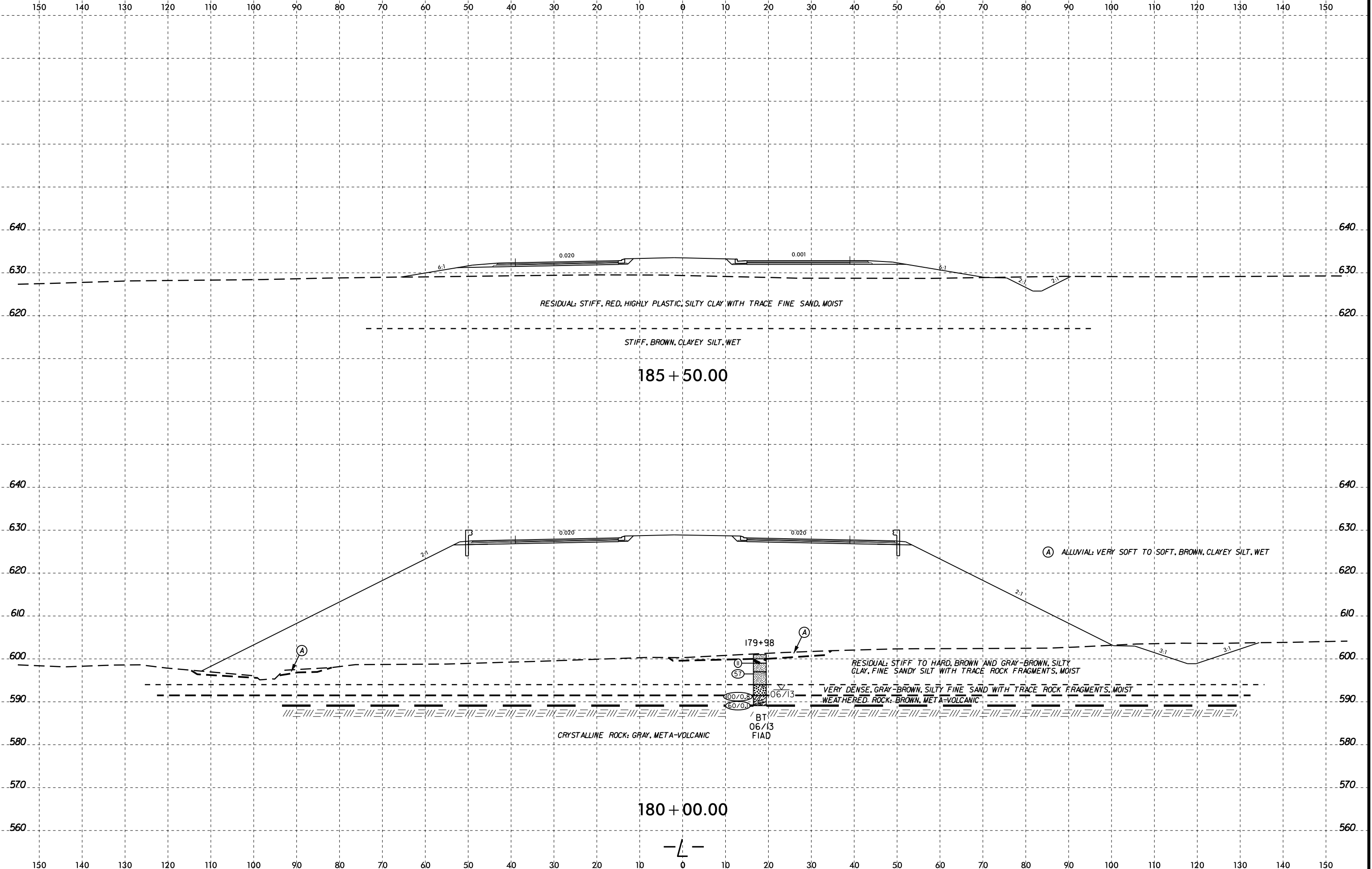


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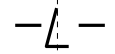


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	151



185 + 50.00

180 + 00.00

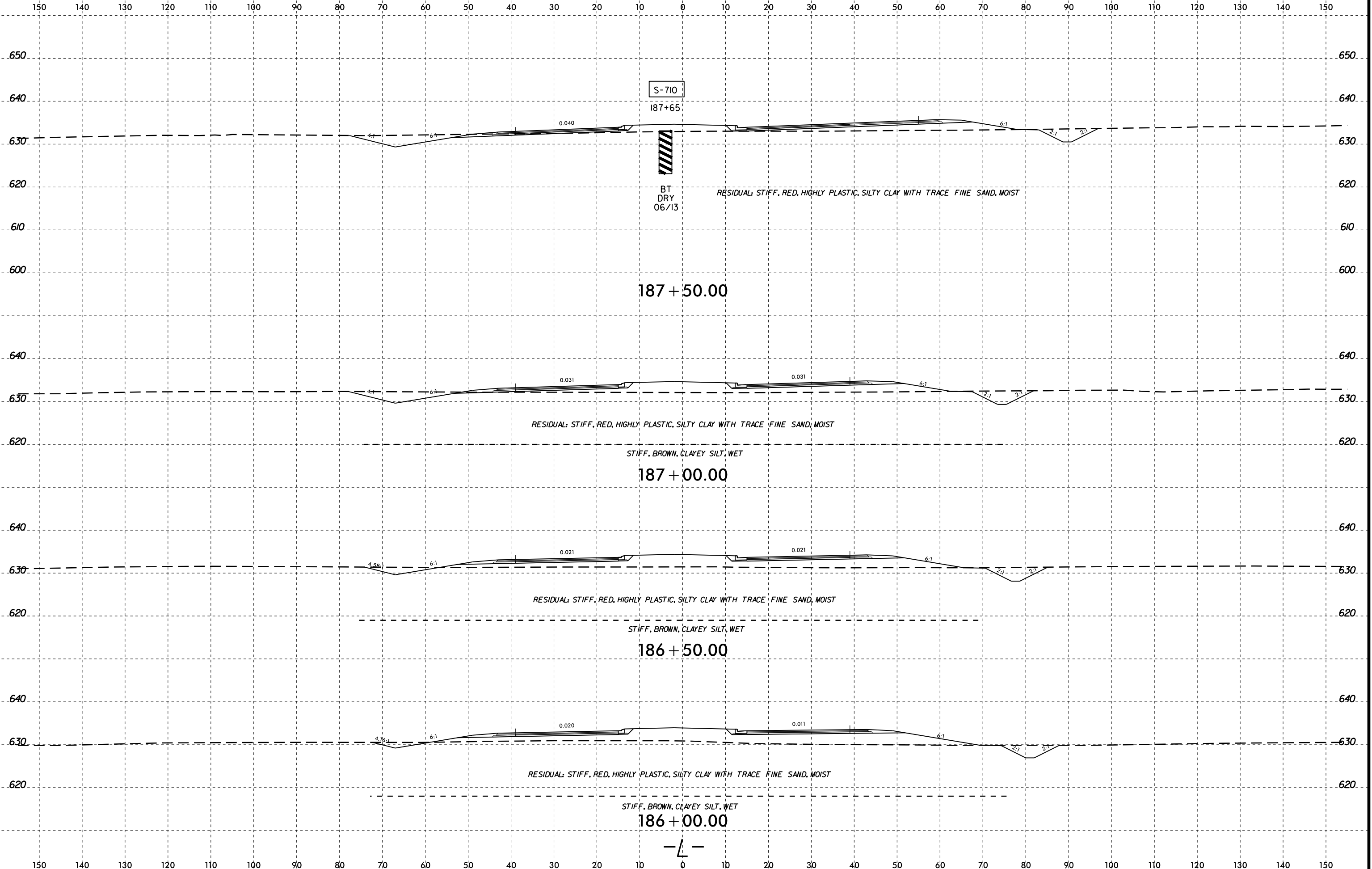


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
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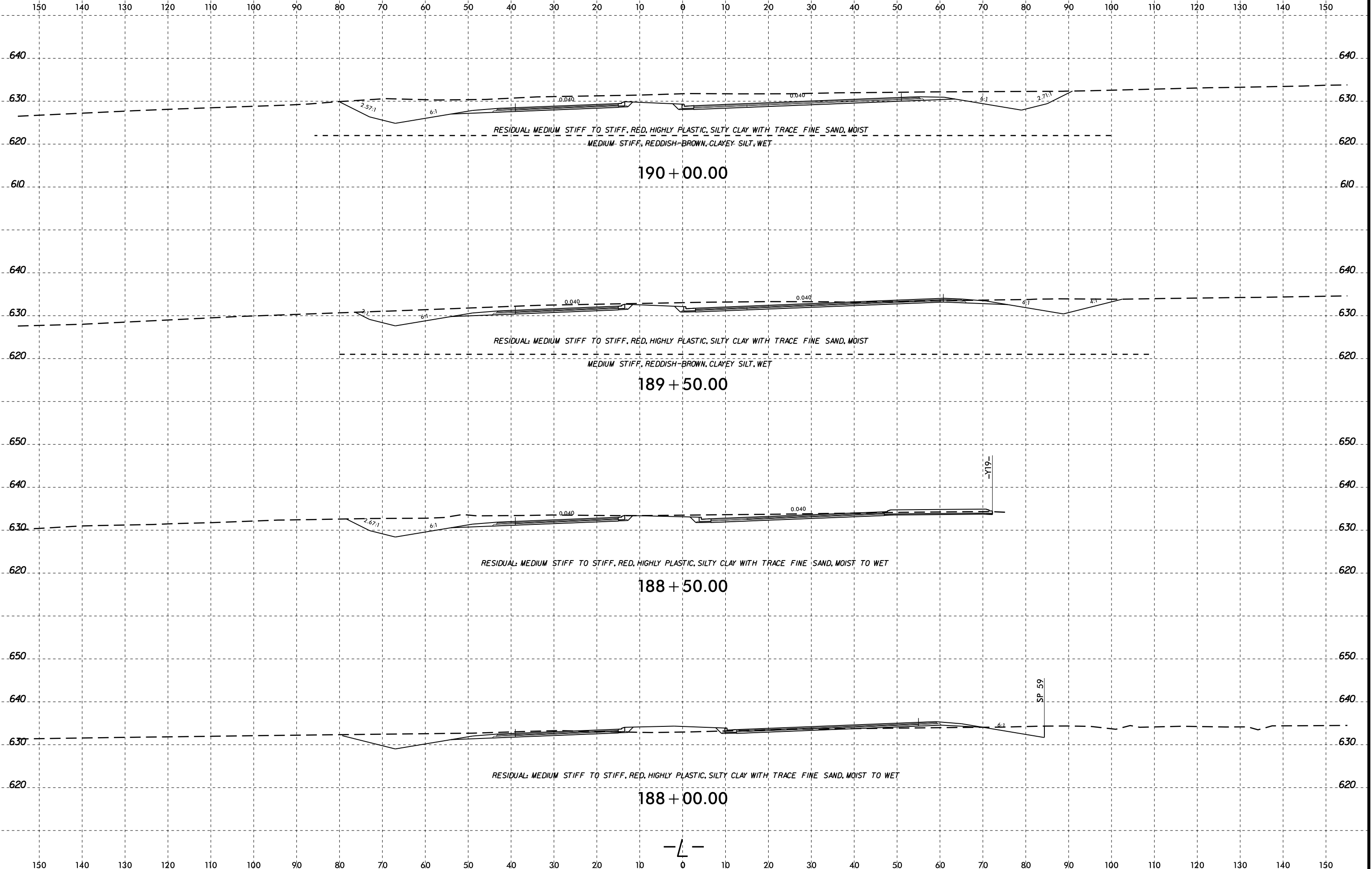


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8/23/99

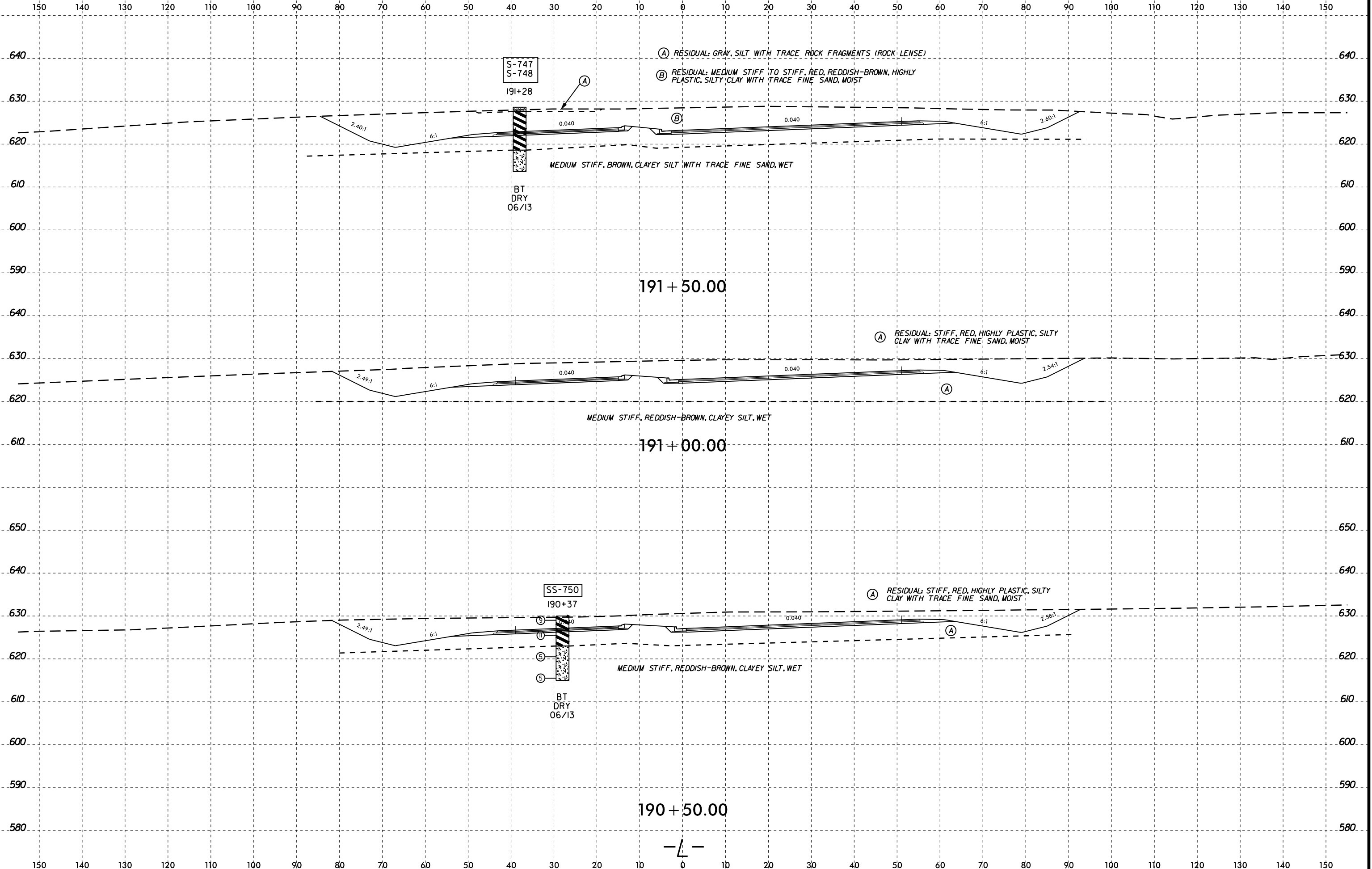


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	153



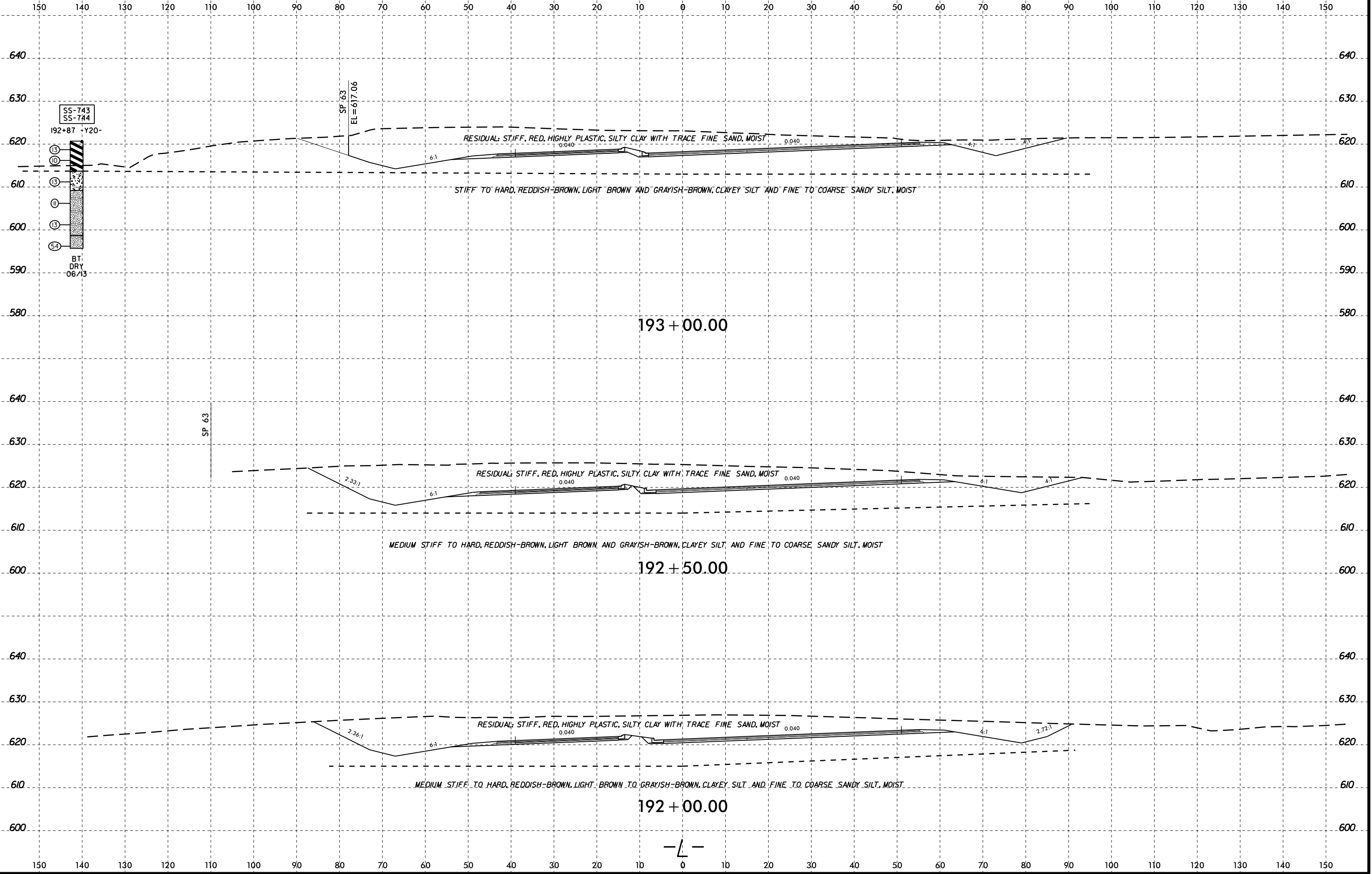
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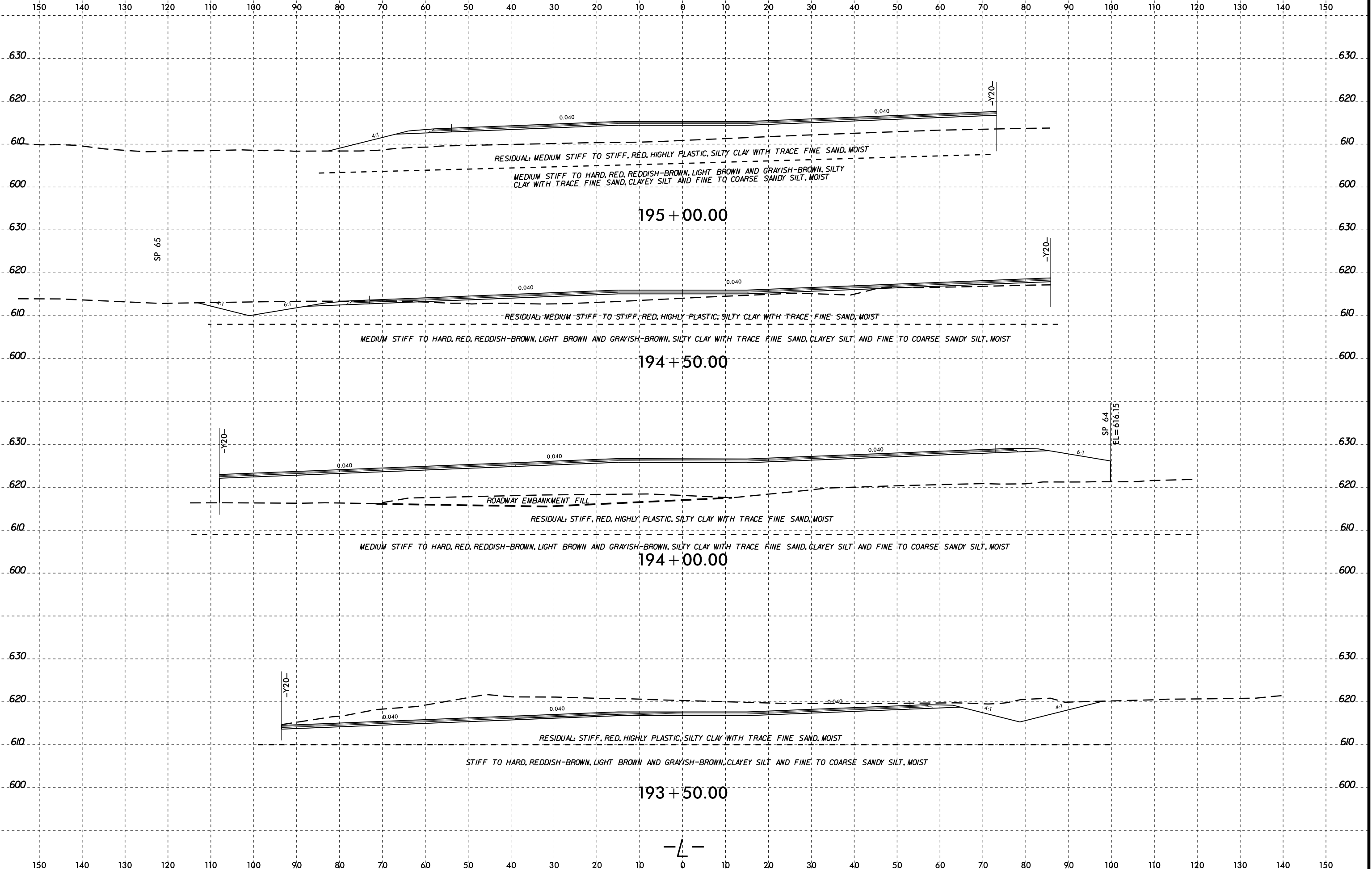


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8/23/99



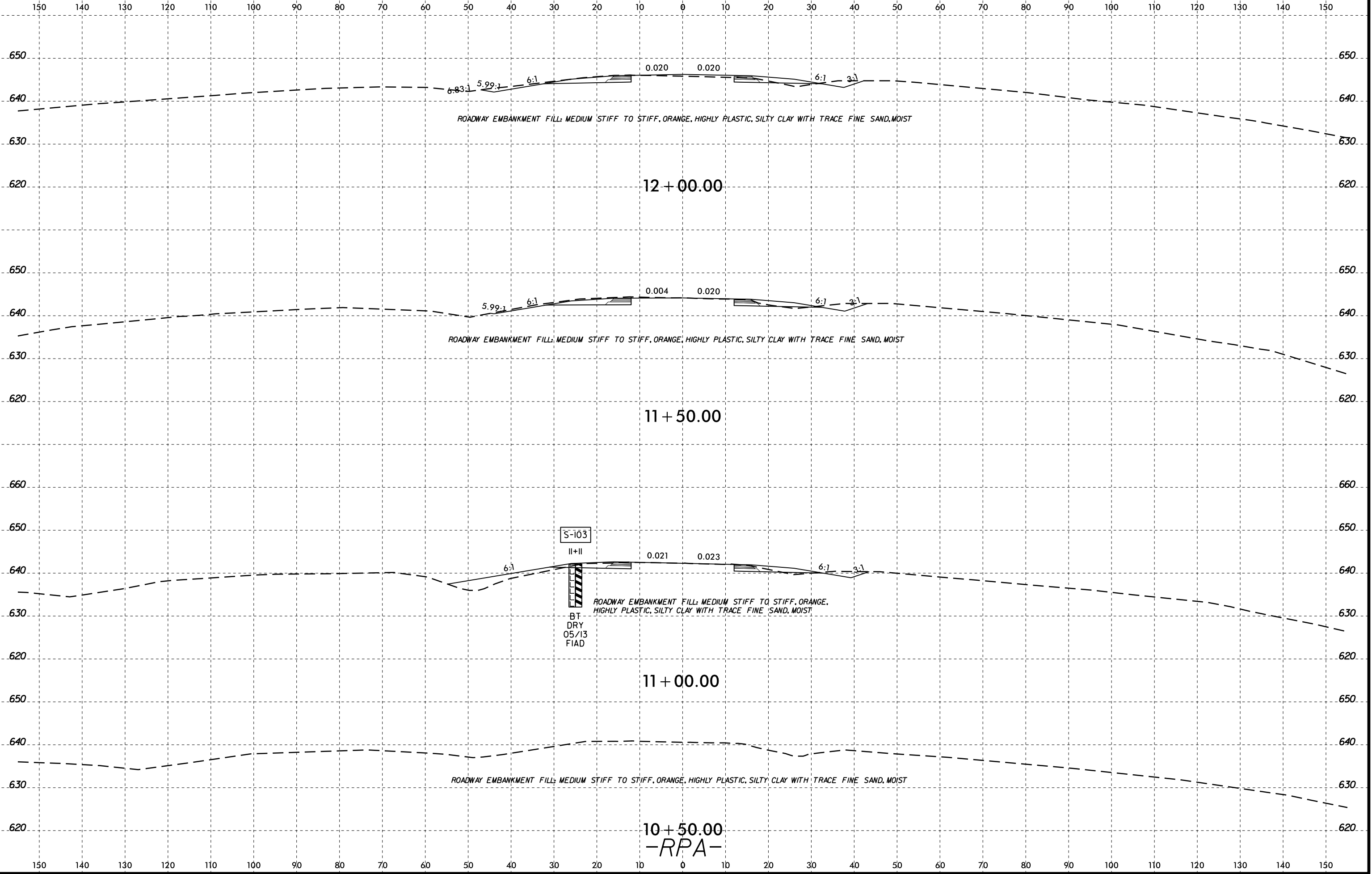
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U-3109A	156



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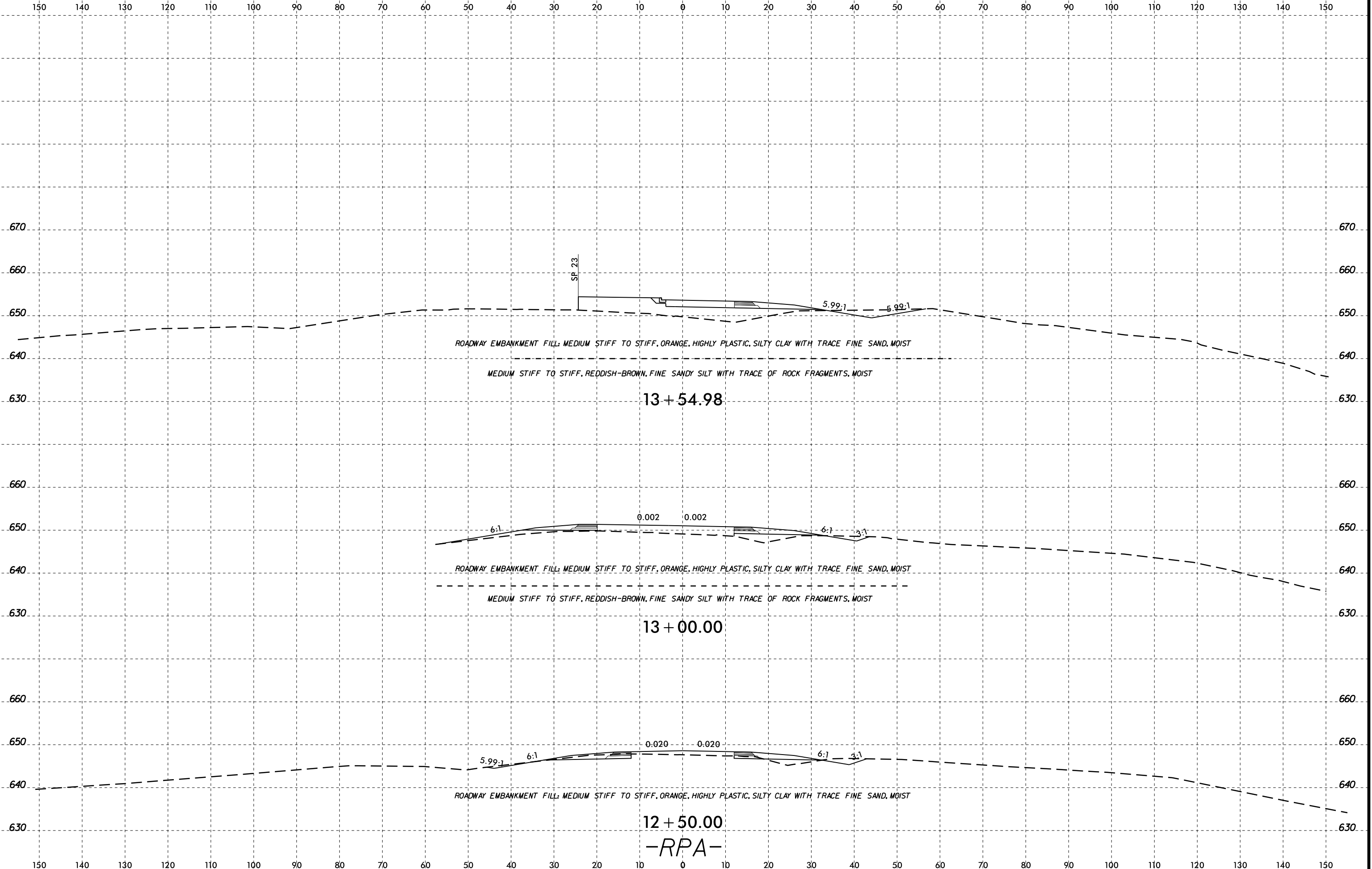
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	158



ROADWAY EMBANKMENT FILL: MEDIUM STIFF TO STIFF, ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

MEDIUM STIFF TO STIFF, REDDISH-BROWN, FINE SANDY SILT WITH TRACE OF ROCK FRAGMENTS, MOIST

13 + 54.98

ROADWAY EMBANKMENT FILL: MEDIUM STIFF TO STIFF, ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

MEDIUM STIFF TO STIFF, REDDISH-BROWN, FINE SANDY SILT WITH TRACE OF ROCK FRAGMENTS, MOIST

13 + 00.00

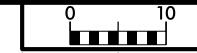
ROADWAY EMBANKMENT FILL: MEDIUM STIFF TO STIFF, ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

12 + 50.00

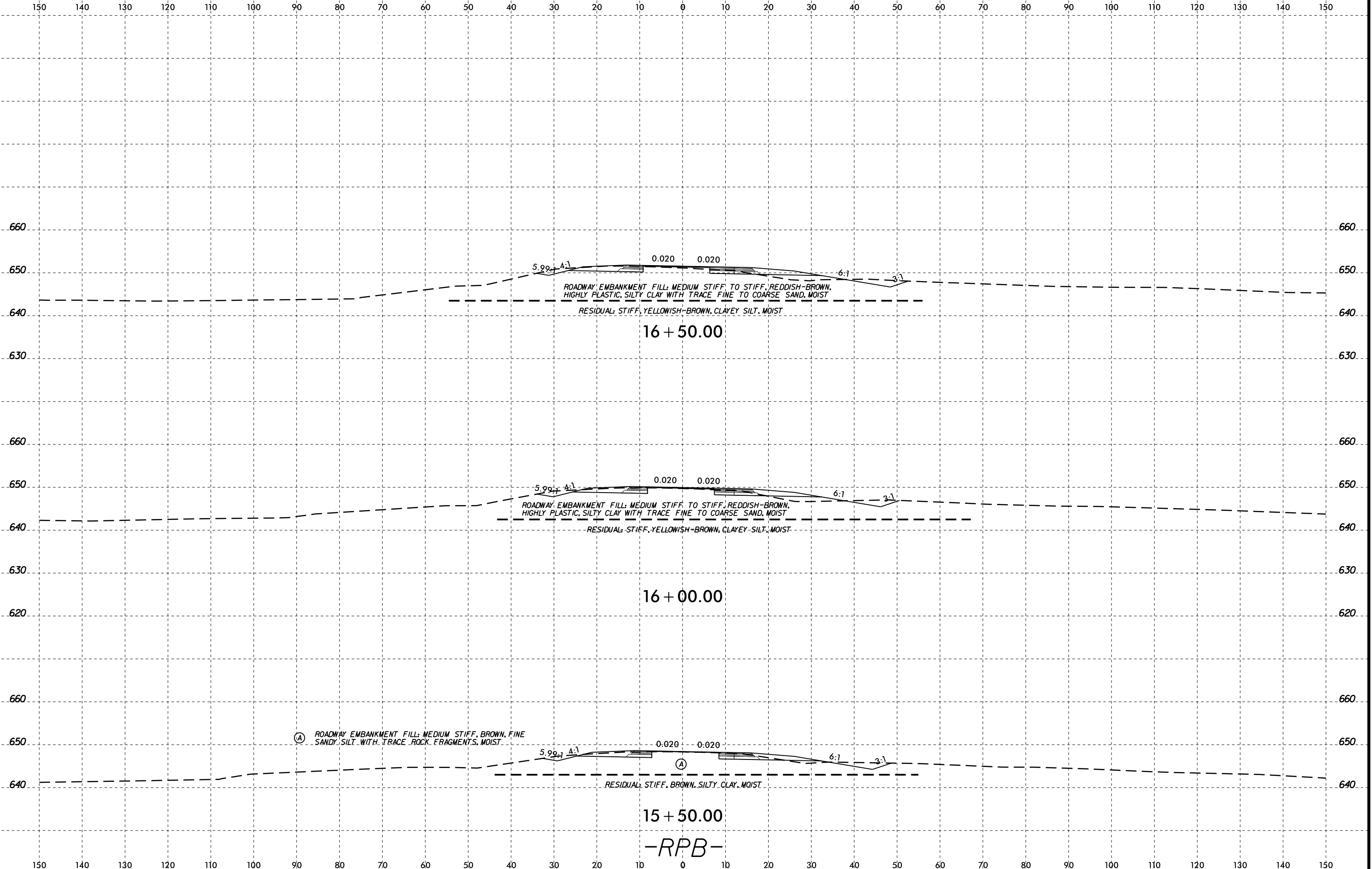
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PROJ. REFERENCE NO.	SHEET NO.
U-3109A	159



16 + 50.00

16 + 00.00

15 + 50.00

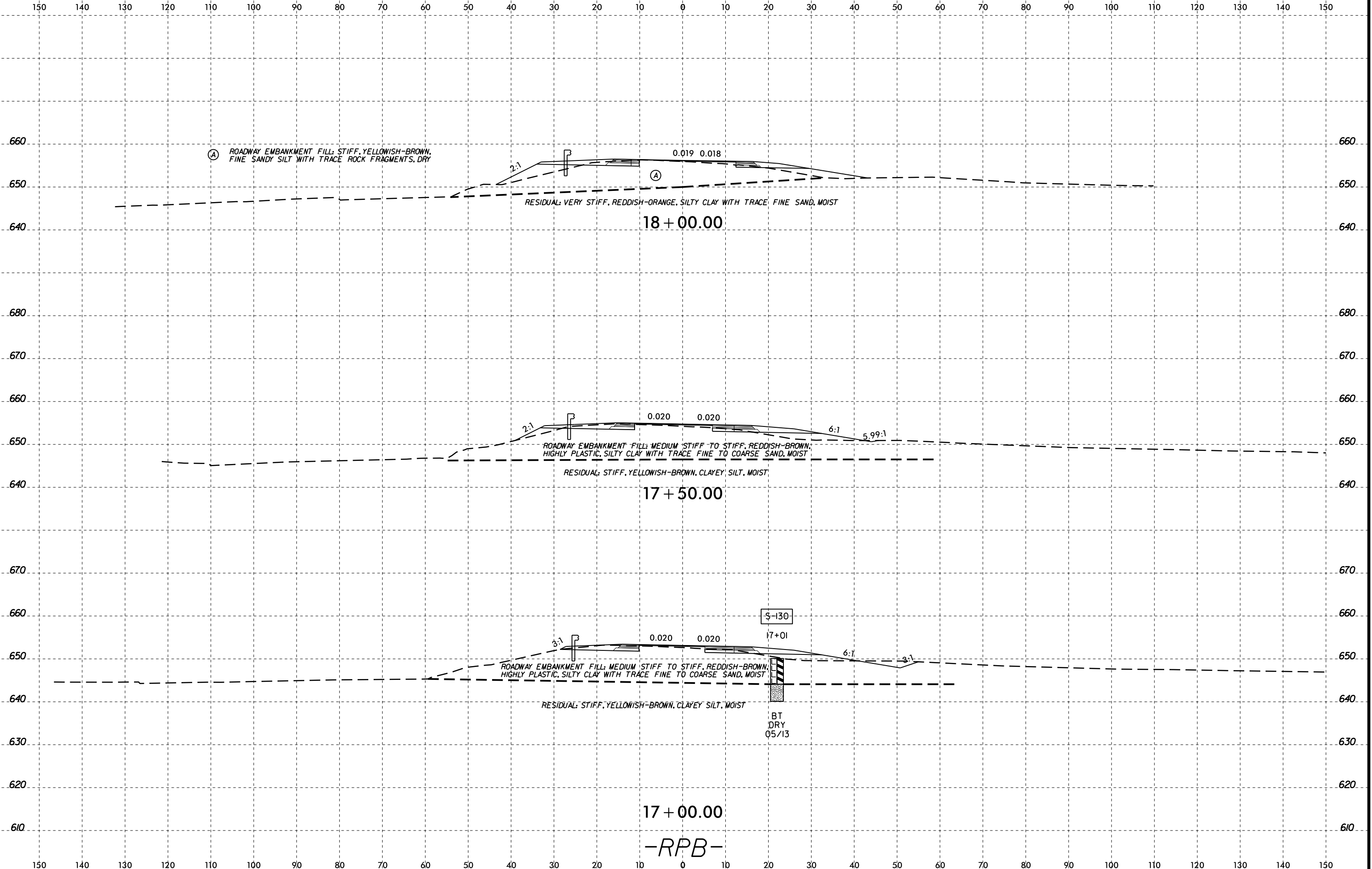
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8/23/99



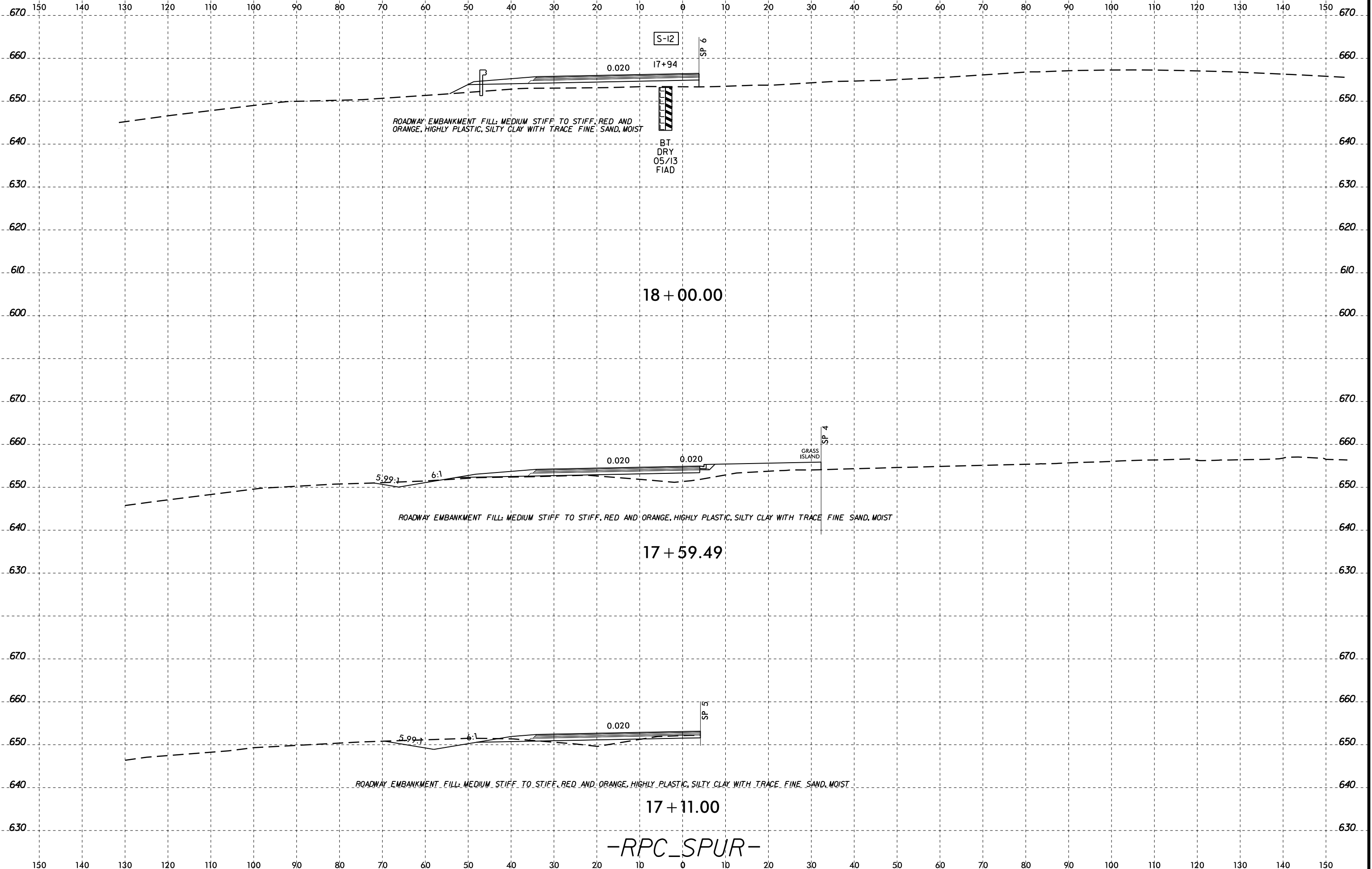
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U-3109A	160



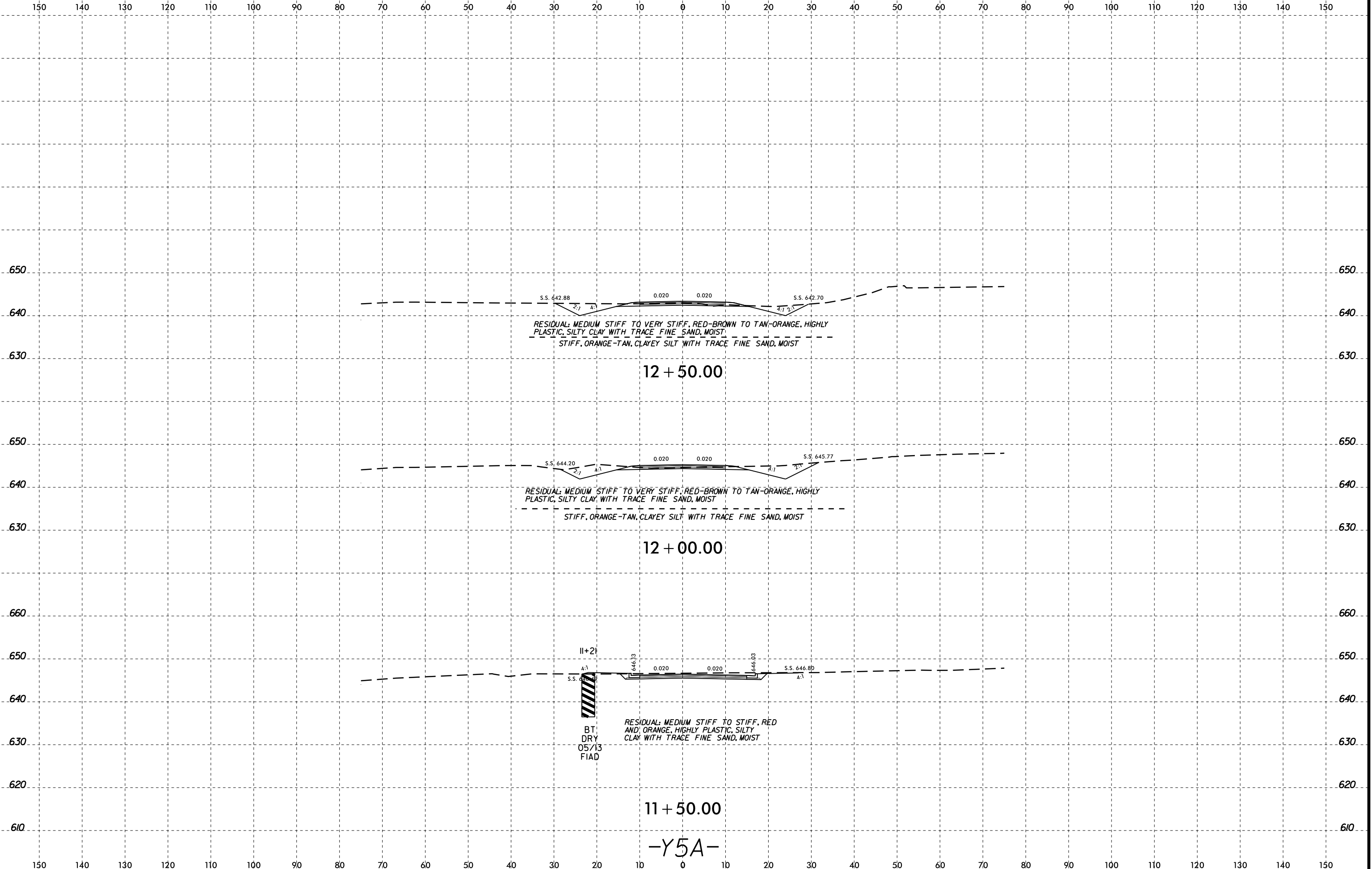
-RPB-

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C:\Users\ouj\OneDrive\Documents\Projects\1610\1610.dwg



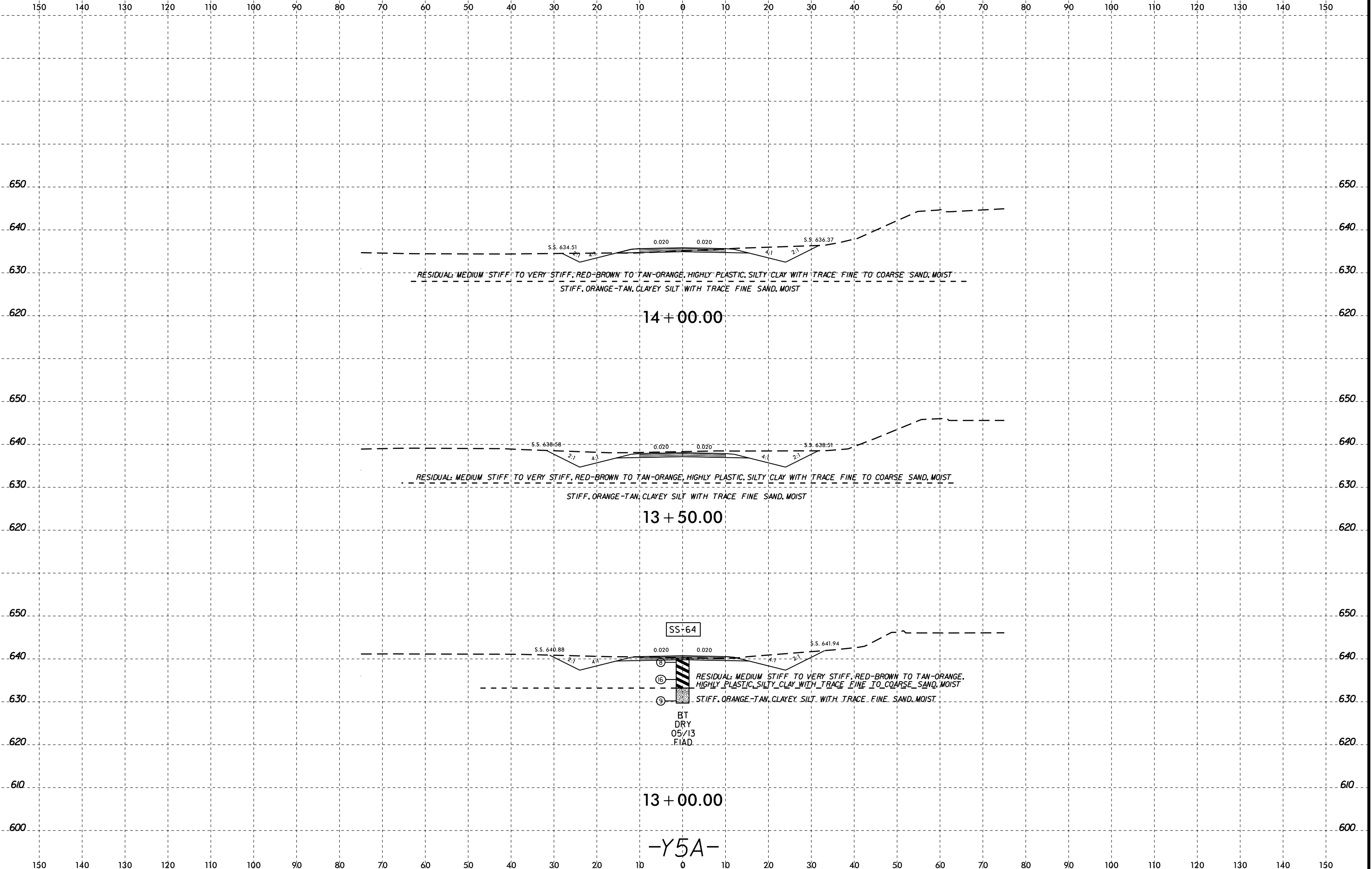
-RPC_SPUR-



RESIDUAL: MEDIUM STIFF TO VERY STIFF, RED-BROWN TO TAN-ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST
 STIFF, ORANGE-TAN, CLAYEY SILT WITH TRACE FINE SAND, MOIST

RESIDUAL: MEDIUM STIFF TO VERY STIFF, RED-BROWN TO TAN-ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST
 STIFF, ORANGE-TAN, CLAYEY SILT WITH TRACE FINE SAND, MOIST

BT
 DRY
 05/13
 FIAD
 RESIDUAL: MEDIUM STIFF TO STIFF, RED AND ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST



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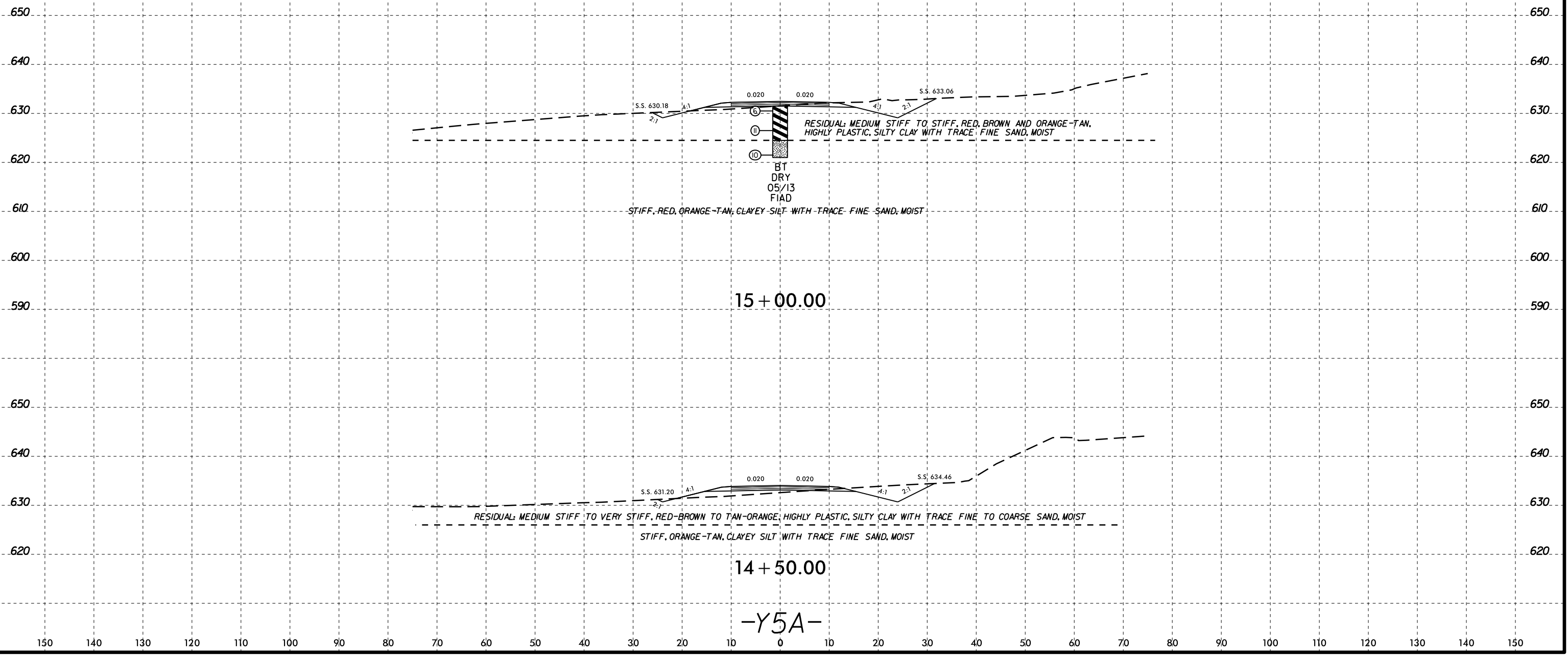
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	164

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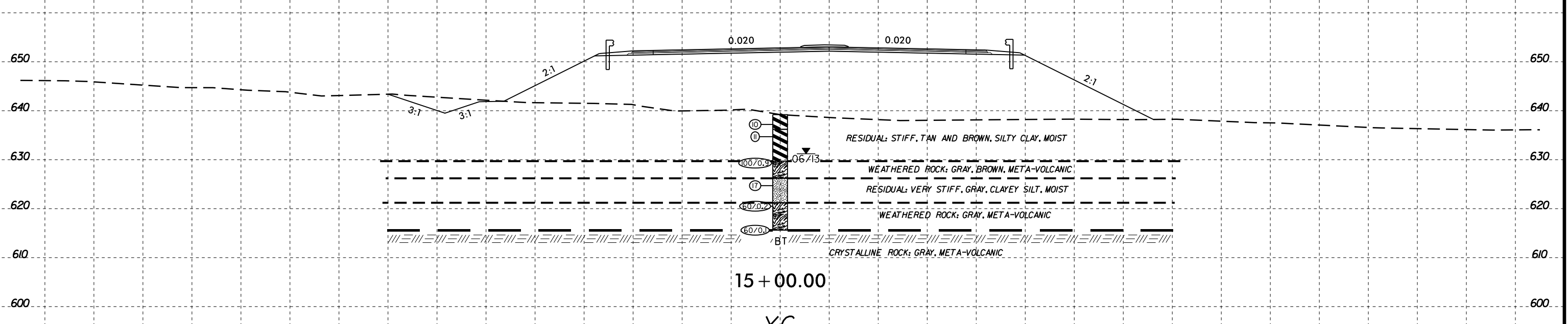
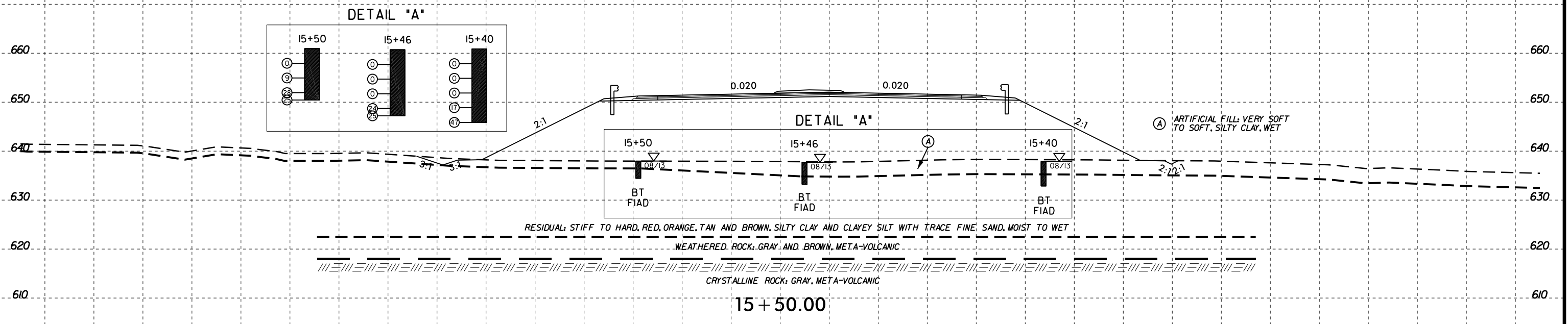
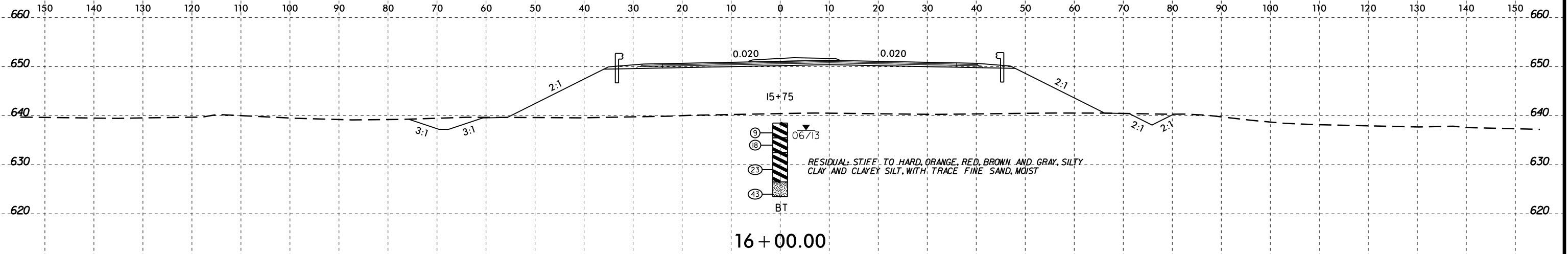


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	165



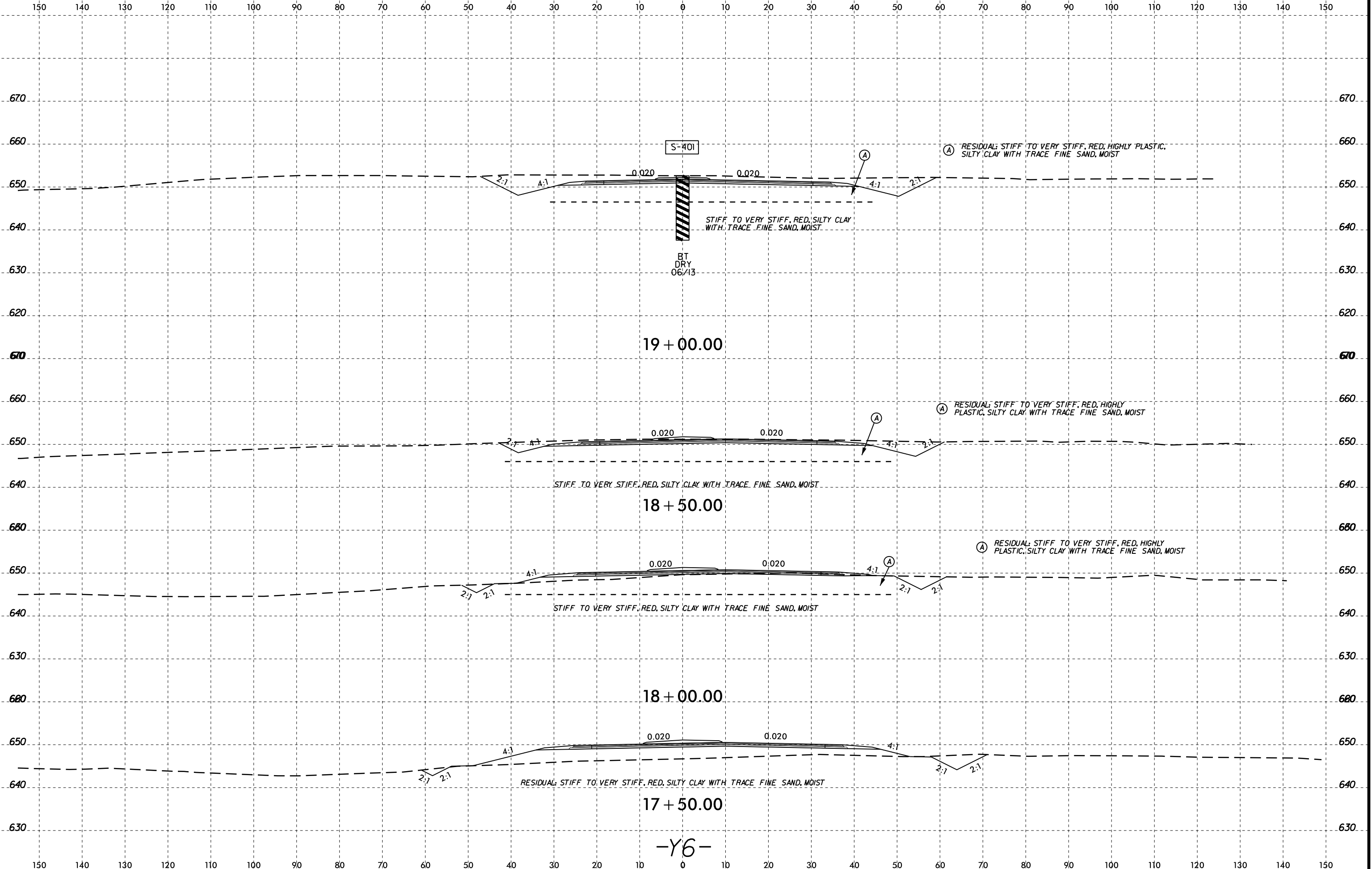
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	166



19 + 00.00

18 + 50.00

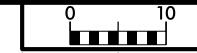
18 + 00.00

17 + 50.00

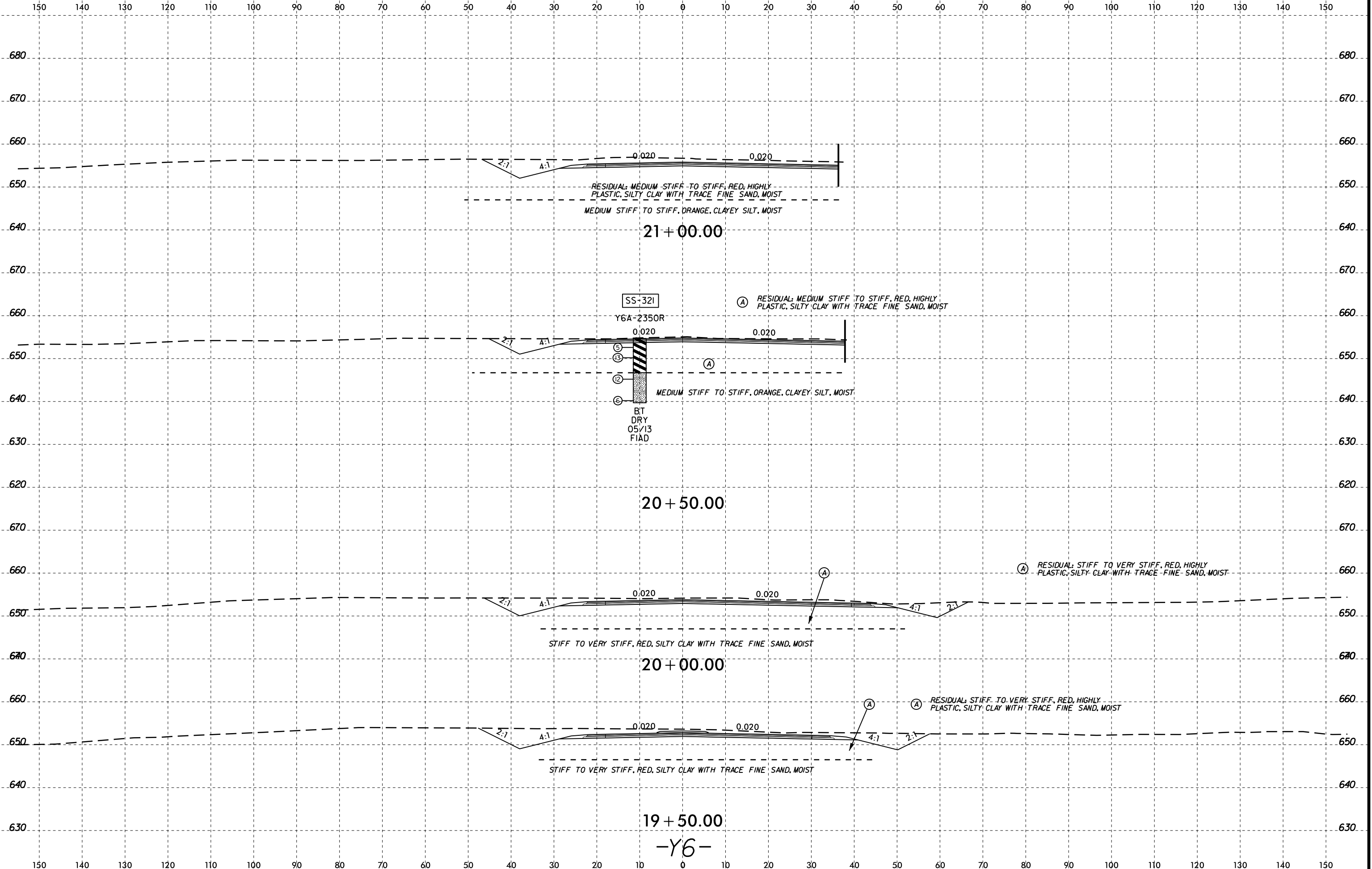
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8/23/99



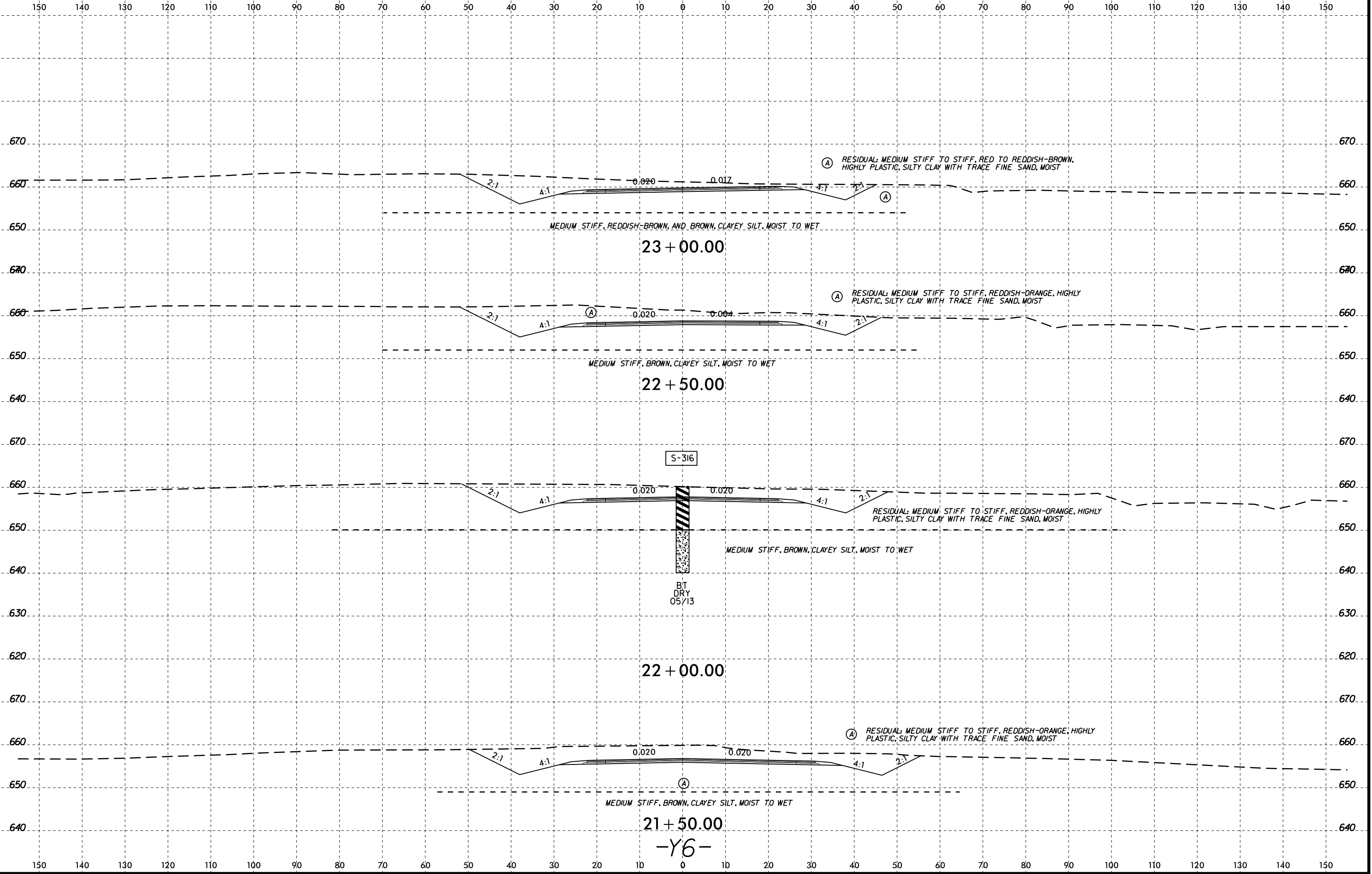
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U-3109A	167



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19 + 50.00
-Y6-

8/23/99
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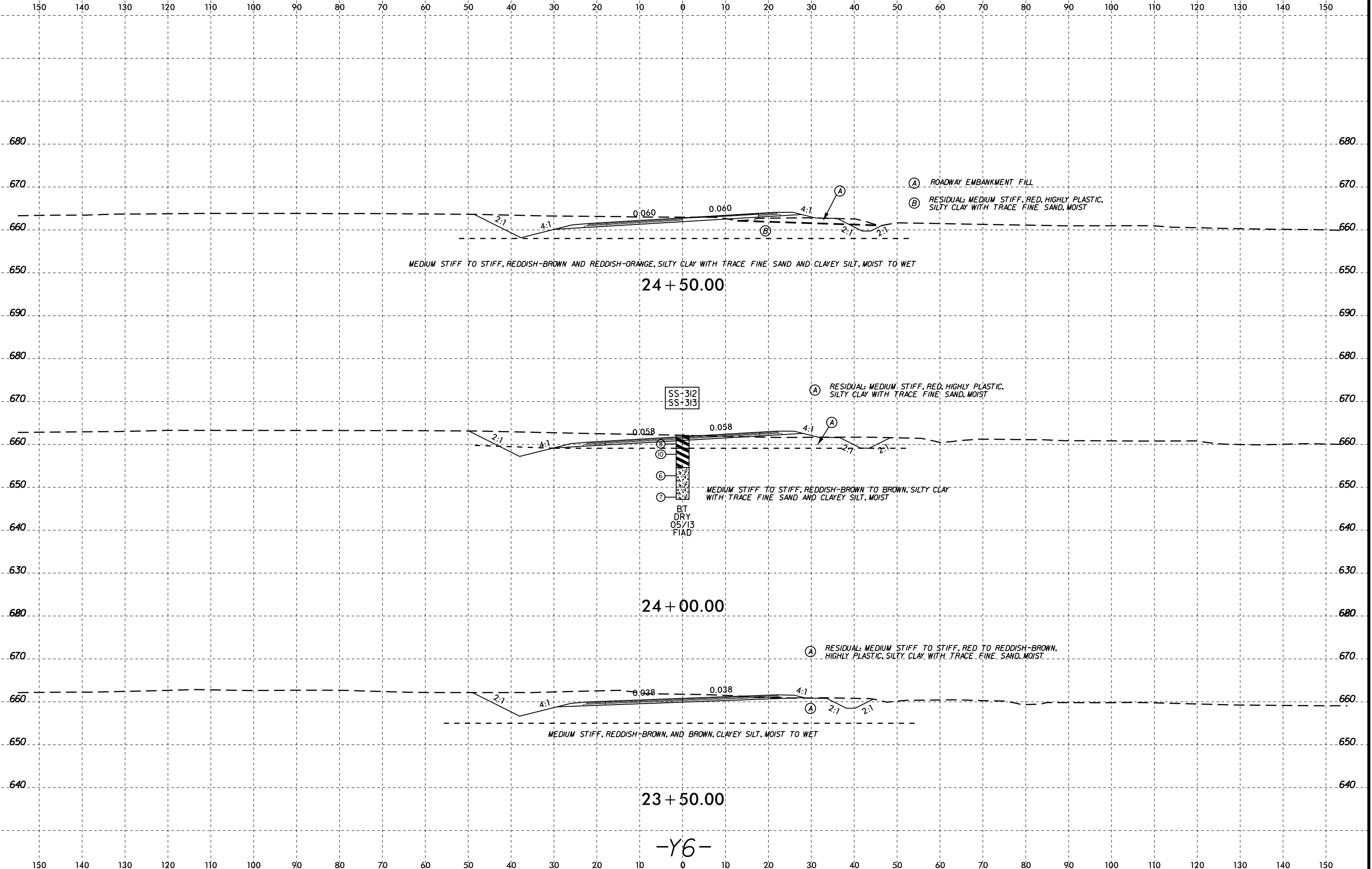
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22 + 50.00

22 + 00.00

21 + 50.00

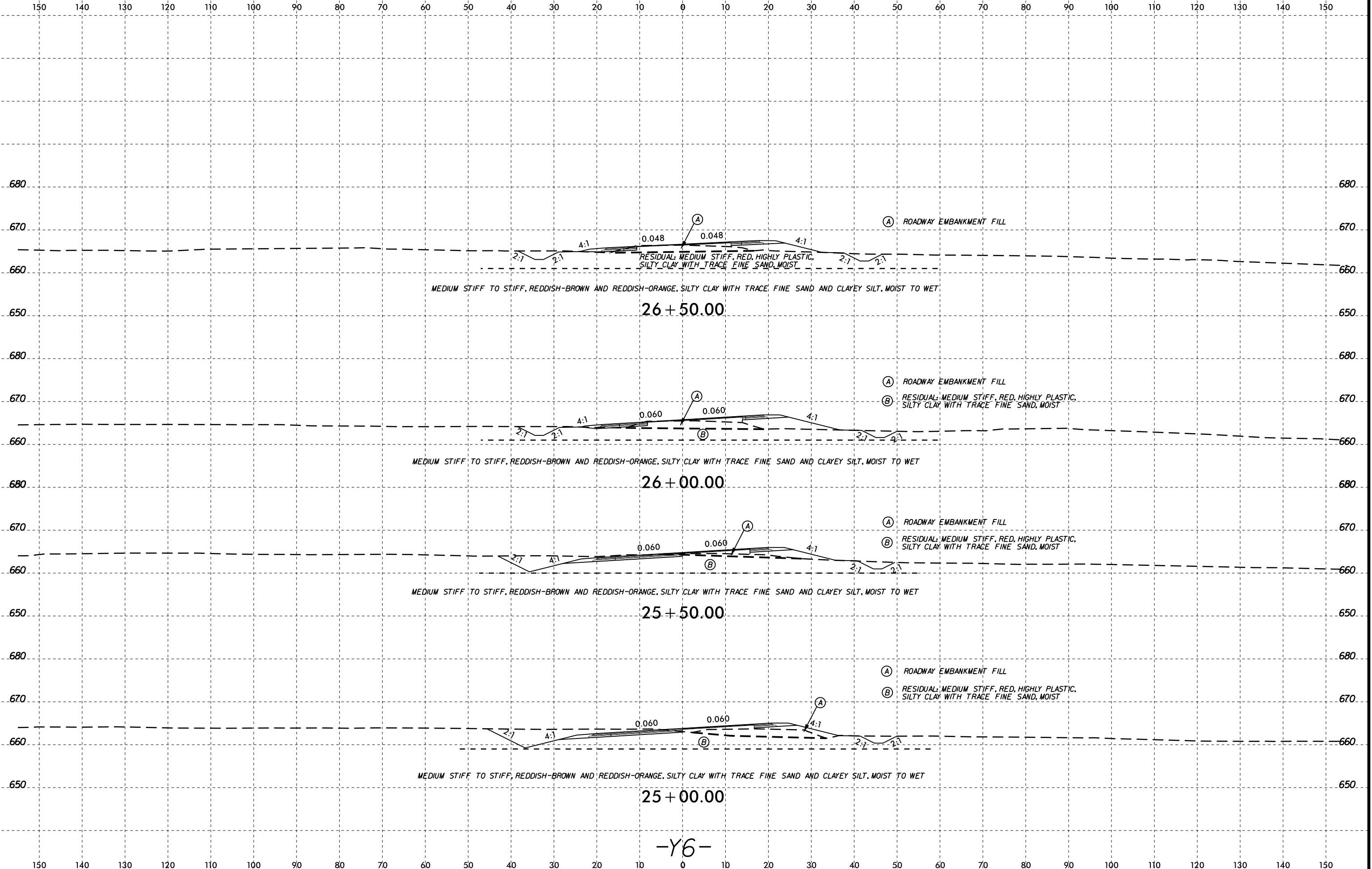
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	170



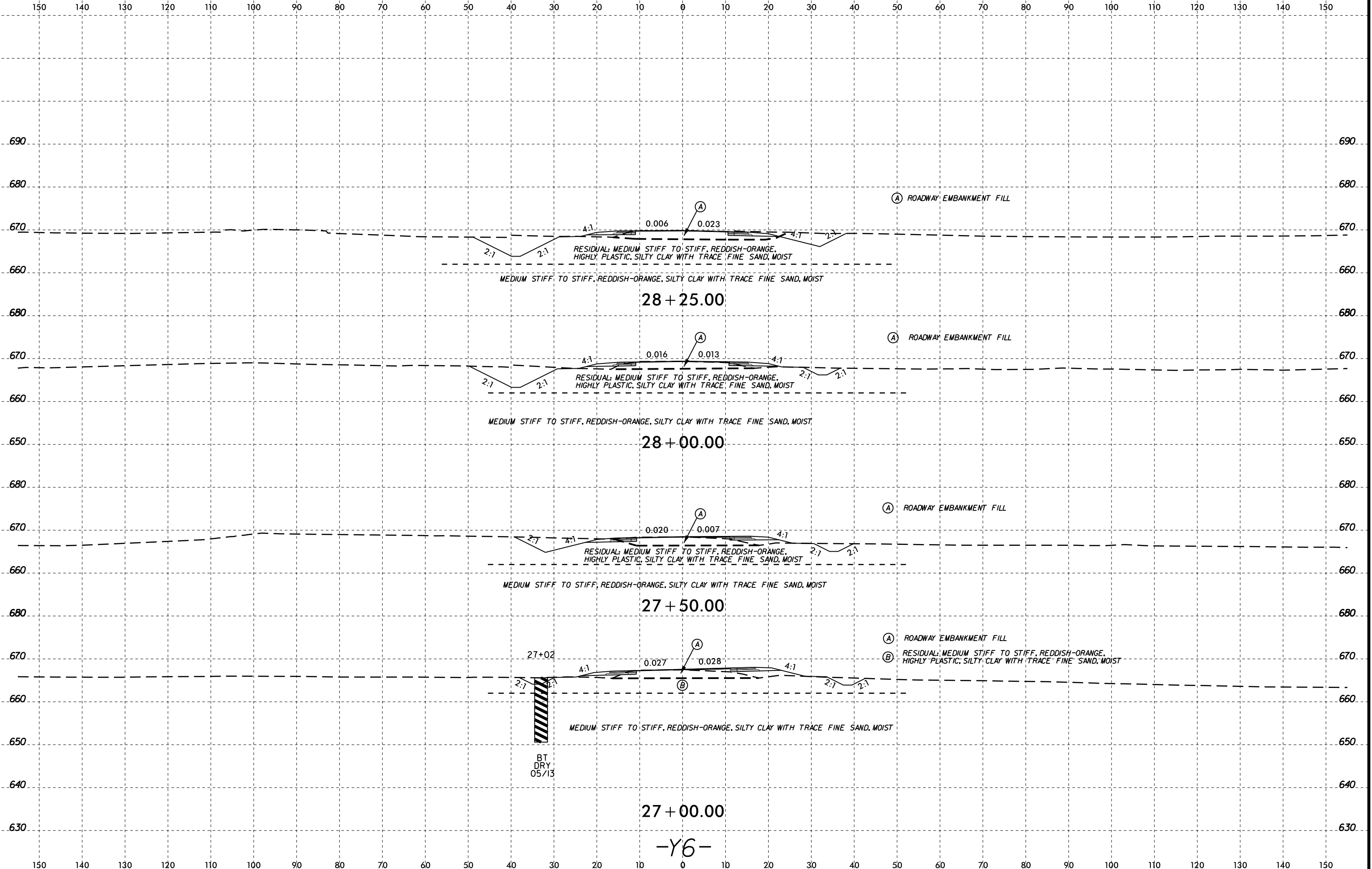
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	171



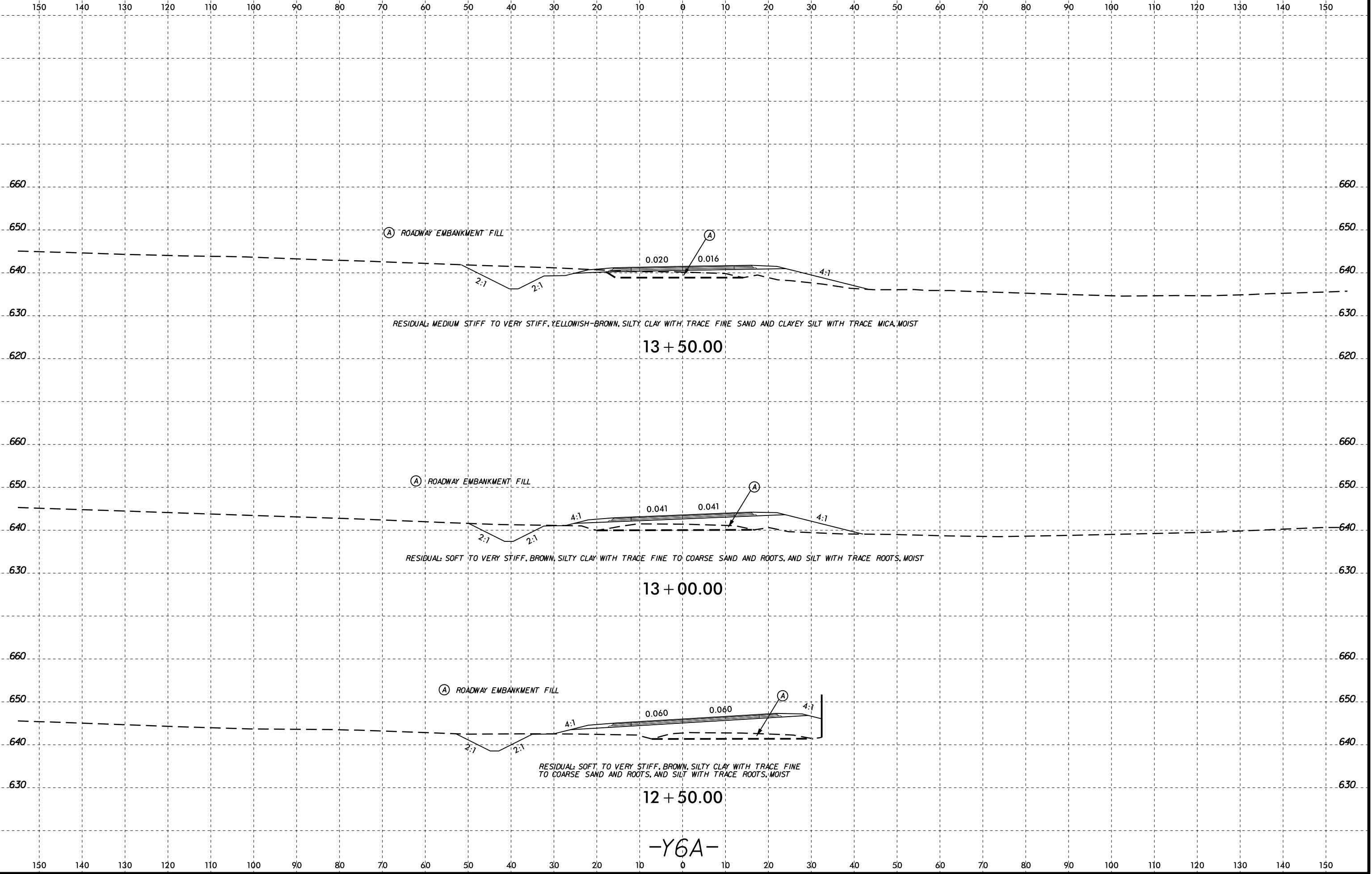
BT
DRY
05/13

27 + 00.00

-Y6-

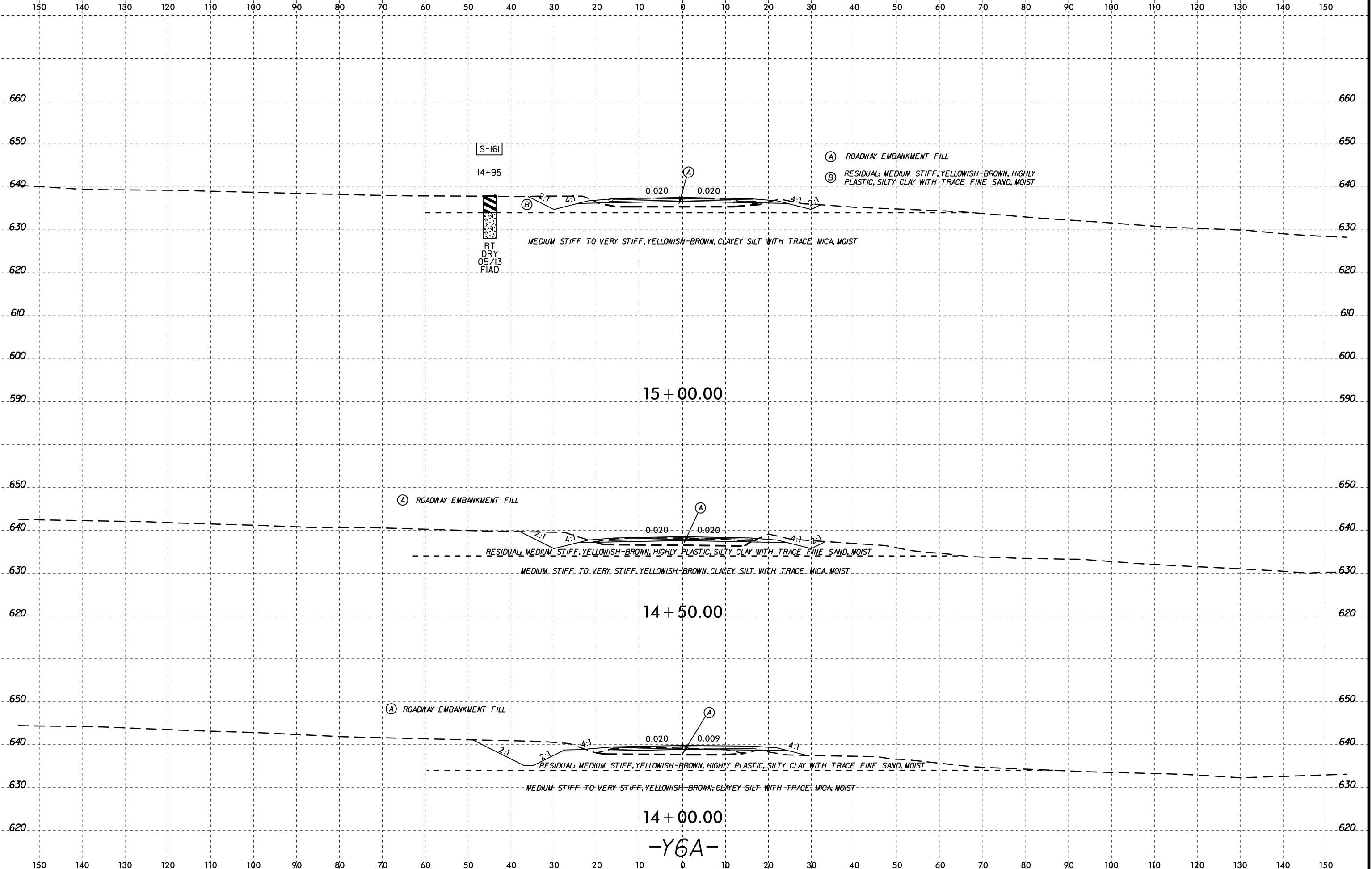
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-Y6A-

8/23/99



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15 + 00.00

14 + 50.00

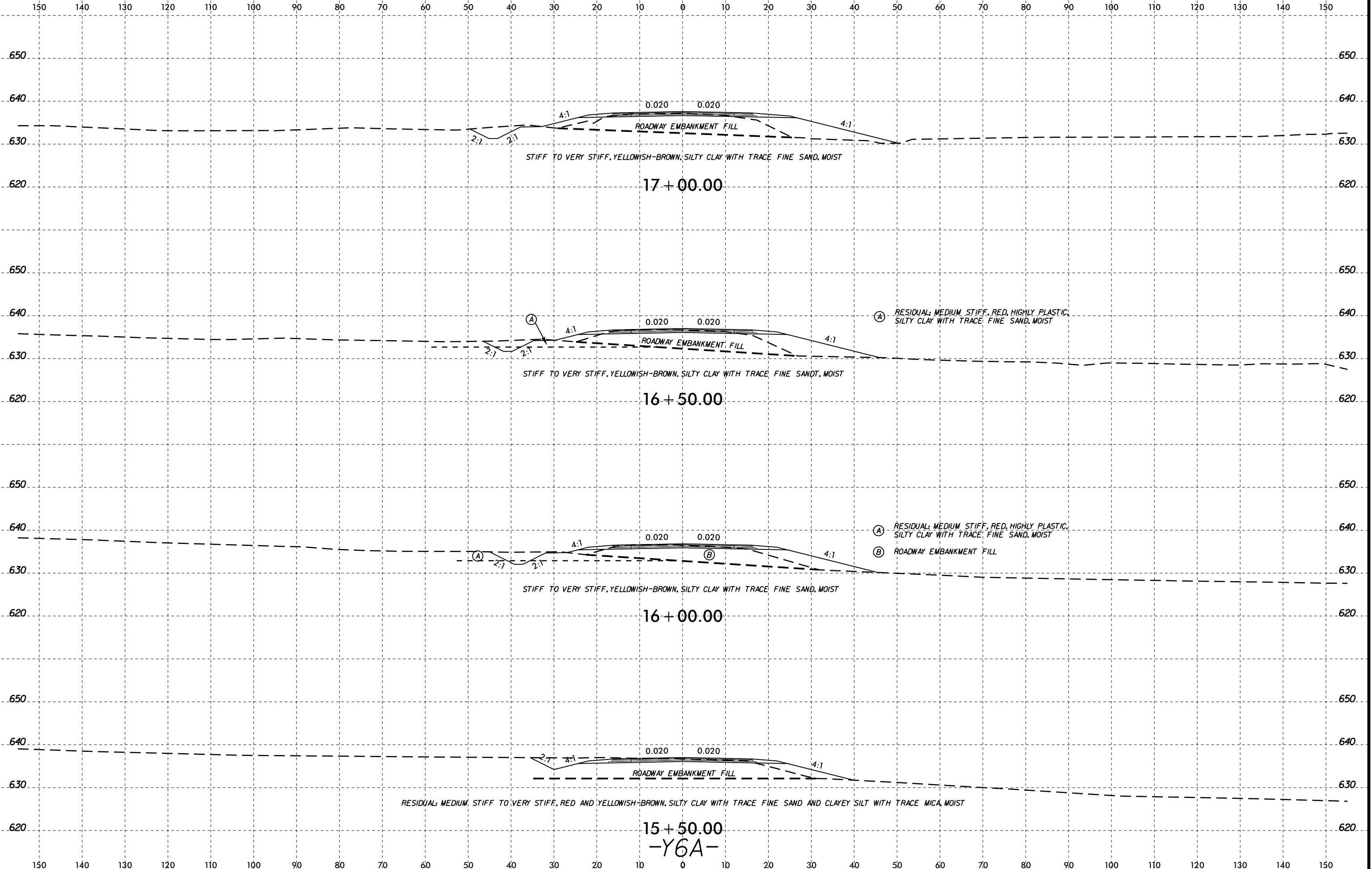
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-Y6A-

8/23/99



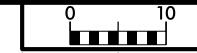
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U-3109A	174



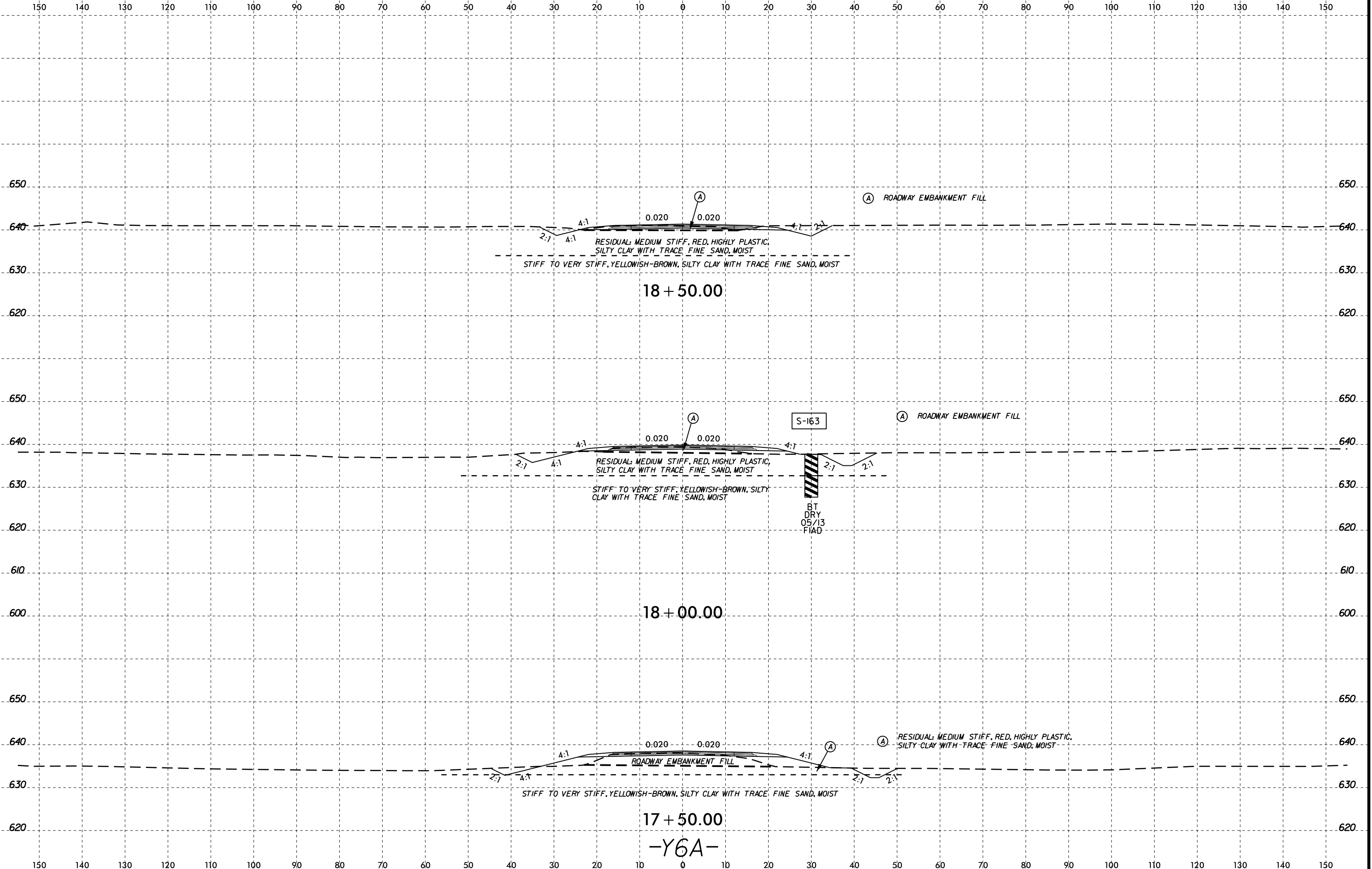
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15+50.00
-Y6A-

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	175



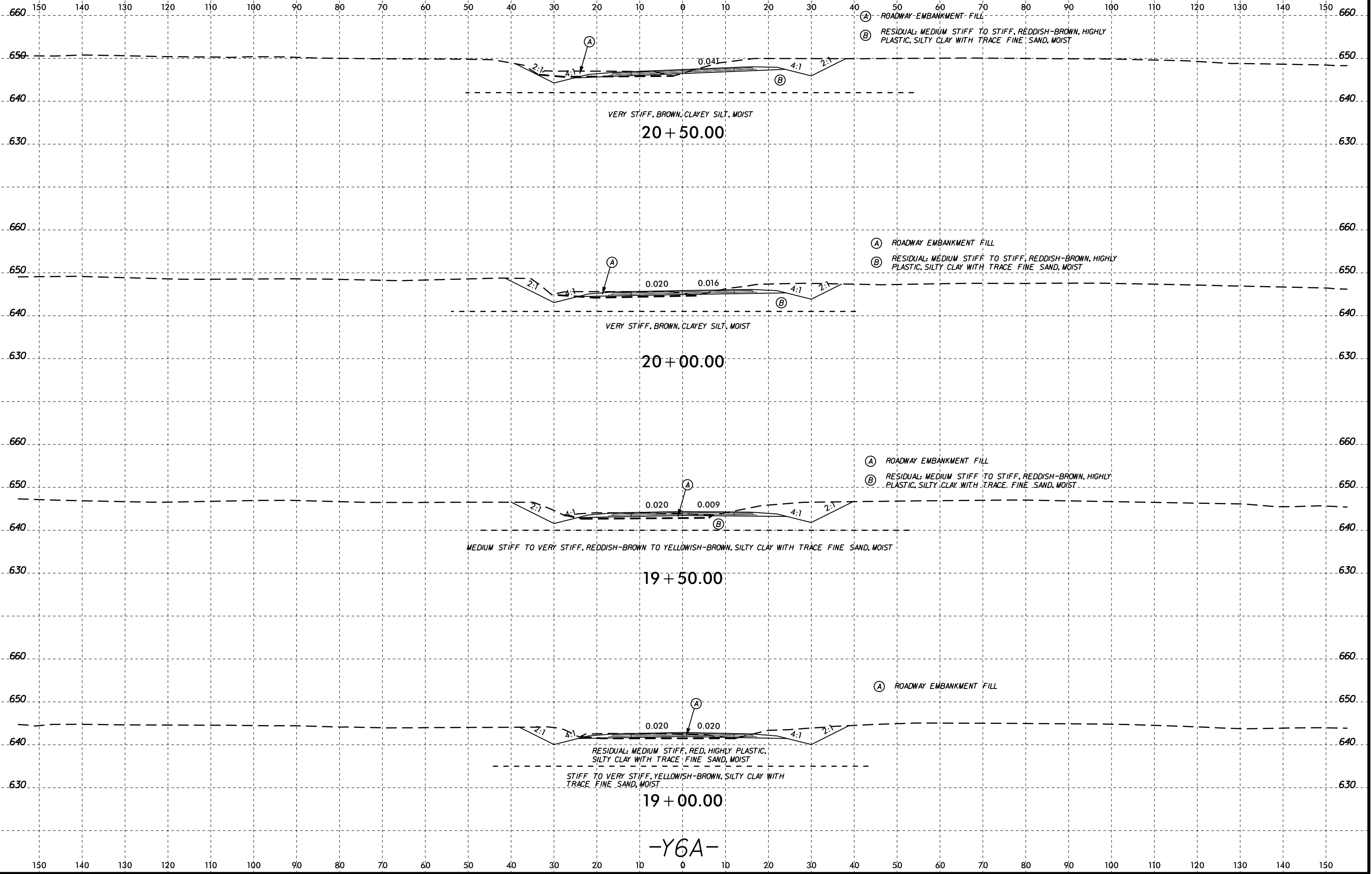
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-Y6A-

8/23/99

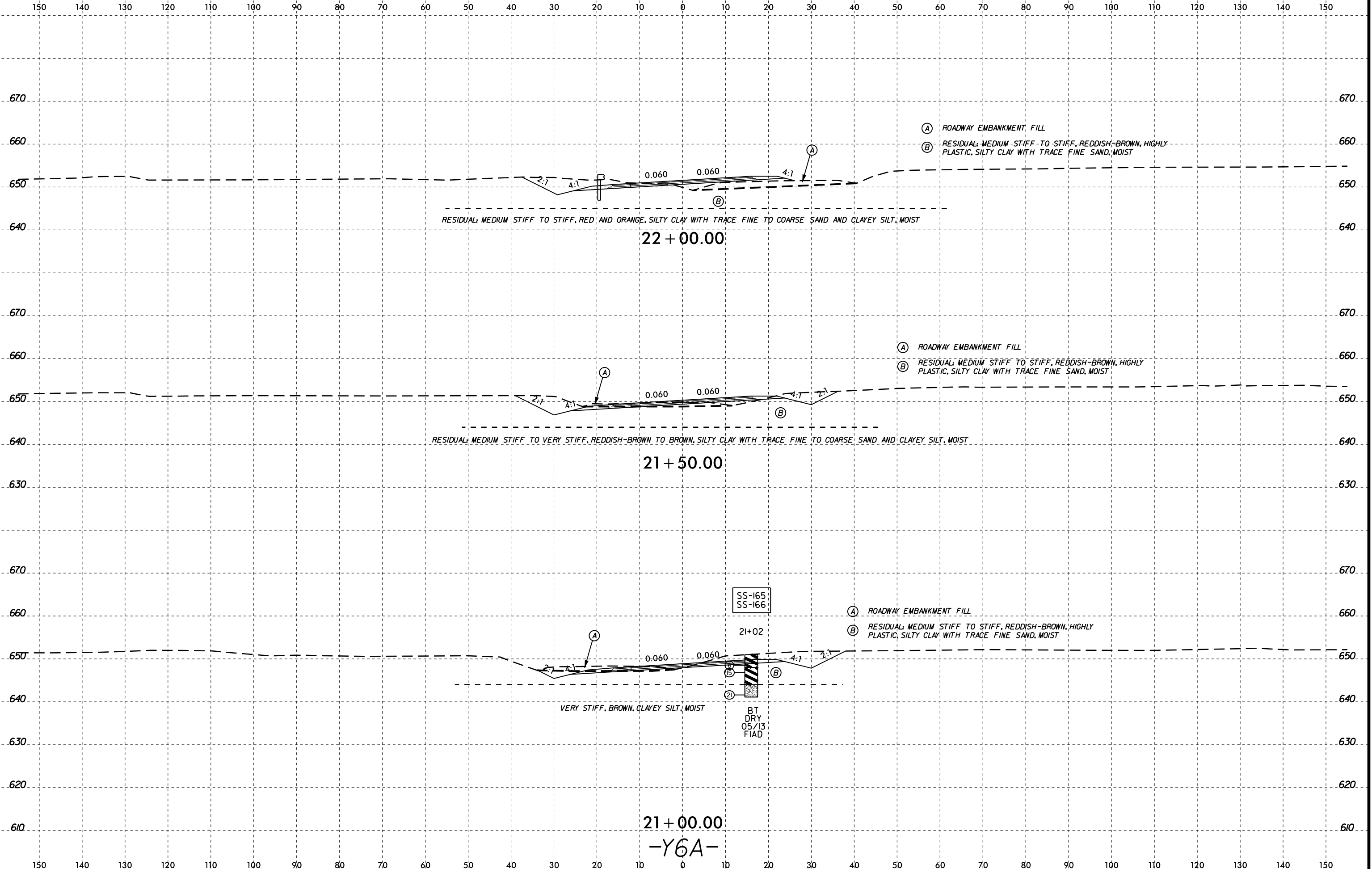


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	176



-Y6A-

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RESIDUAL: MEDIUM STIFF TO STIFF, RED AND ORANGE, SILTY CLAY WITH TRACE FINE TO COARSE SAND AND CLAYEY SILT, MOIST

22 + 00.00

- (A) ROADWAY EMBANKMENT FILL
- (B) RESIDUAL: MEDIUM STIFF TO STIFF, REDDISH-BROWN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

RESIDUAL: MEDIUM STIFF TO VERY STIFF, REDDISH-BROWN TO BROWN, SILTY CLAY WITH TRACE FINE TO COARSE SAND AND CLAYEY SILT, MOIST

21 + 50.00

- (A) ROADWAY EMBANKMENT FILL
- (B) RESIDUAL: MEDIUM STIFF TO STIFF, REDDISH-BROWN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

SS-165
SS-166

21+02

VERY STIFF, BROWN, CLAYEY SILT, MOIST

BT
DRY
05/13
FIAD

- (A) ROADWAY EMBANKMENT FILL
- (B) RESIDUAL: MEDIUM STIFF TO STIFF, REDDISH-BROWN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

21 + 00.00

-Y6A-



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

670 670

660 660

650 650

640 640

630 630

620 620

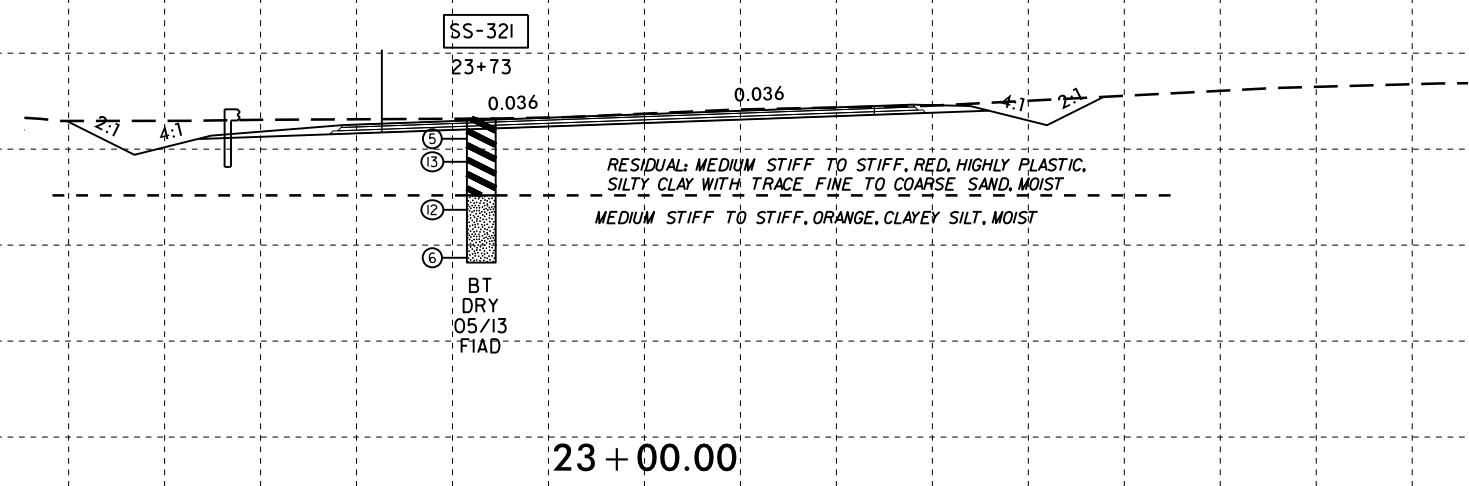
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660 660

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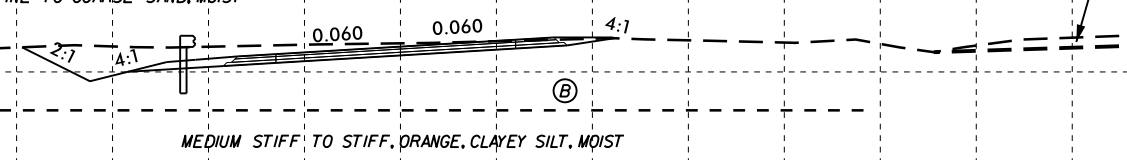
640 640

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23 + 00.00

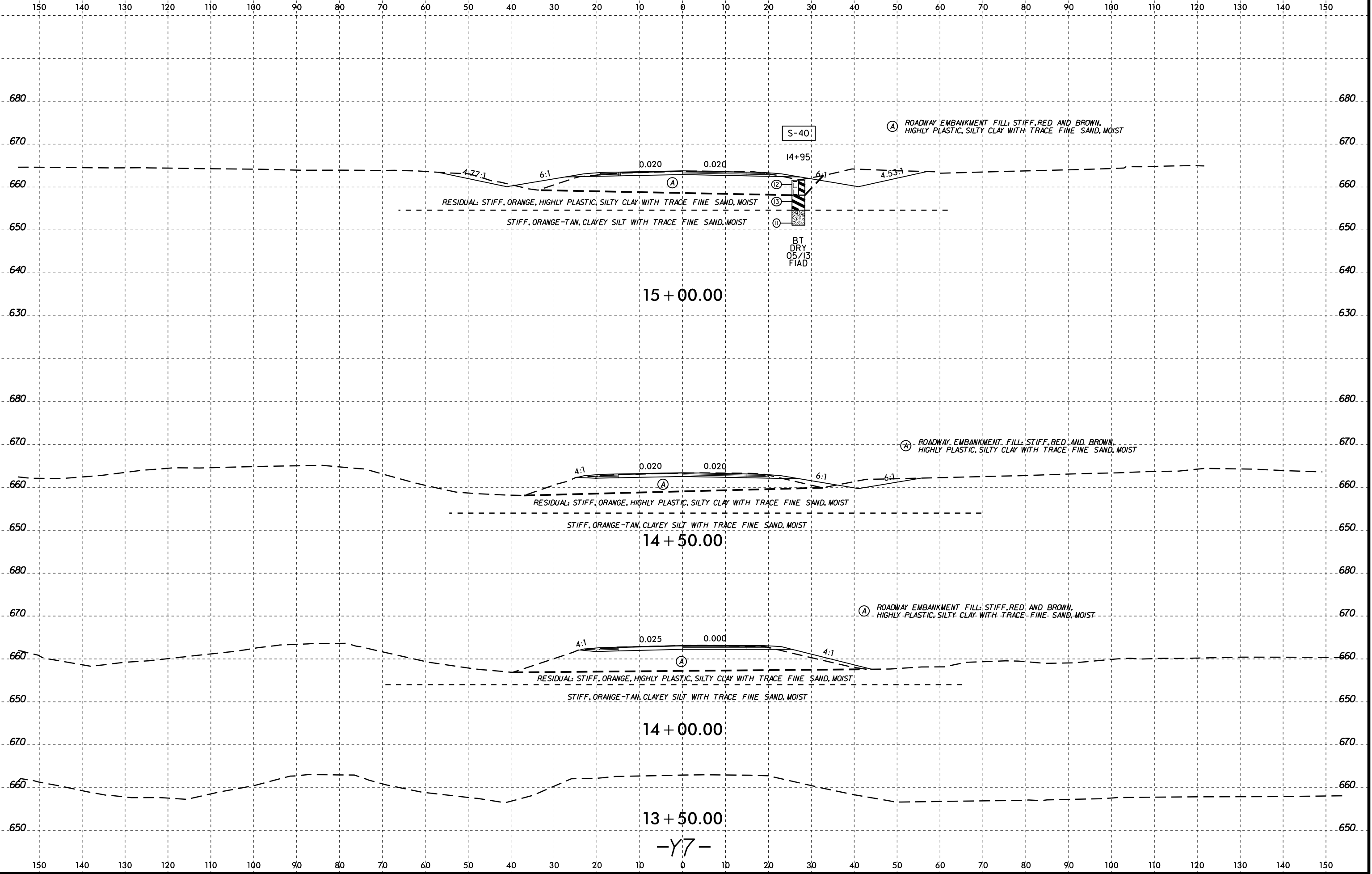
- (A) ROADWAY EMBANKMENT FILL
- (B) RESIDUAL MEDIUM STIFF TO STIFF, RED, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE TO COARSE SAND, MOIST



22 + 50.00

-Y6A-

8/23/99
03-NOV-2014 12:28
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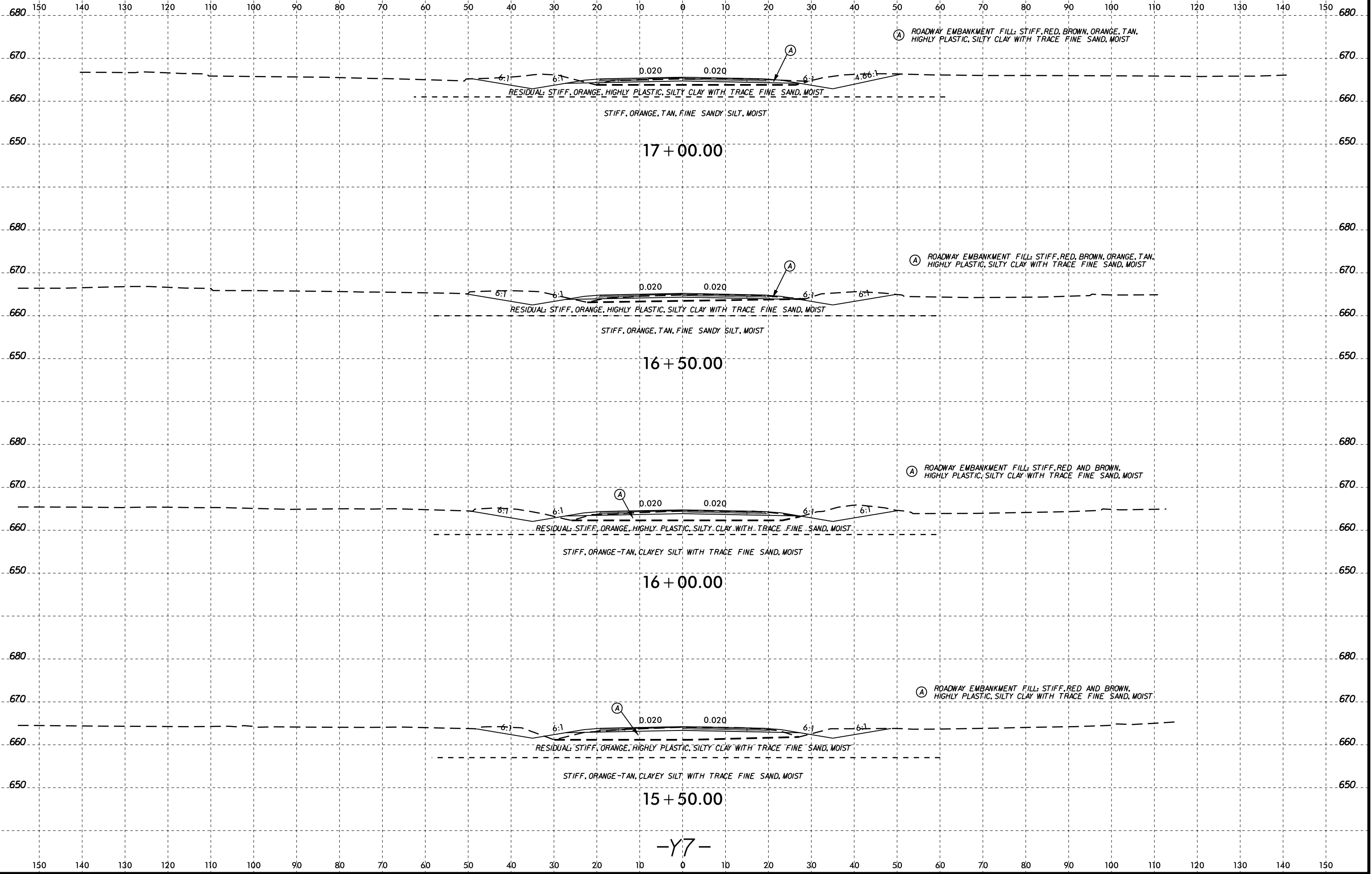
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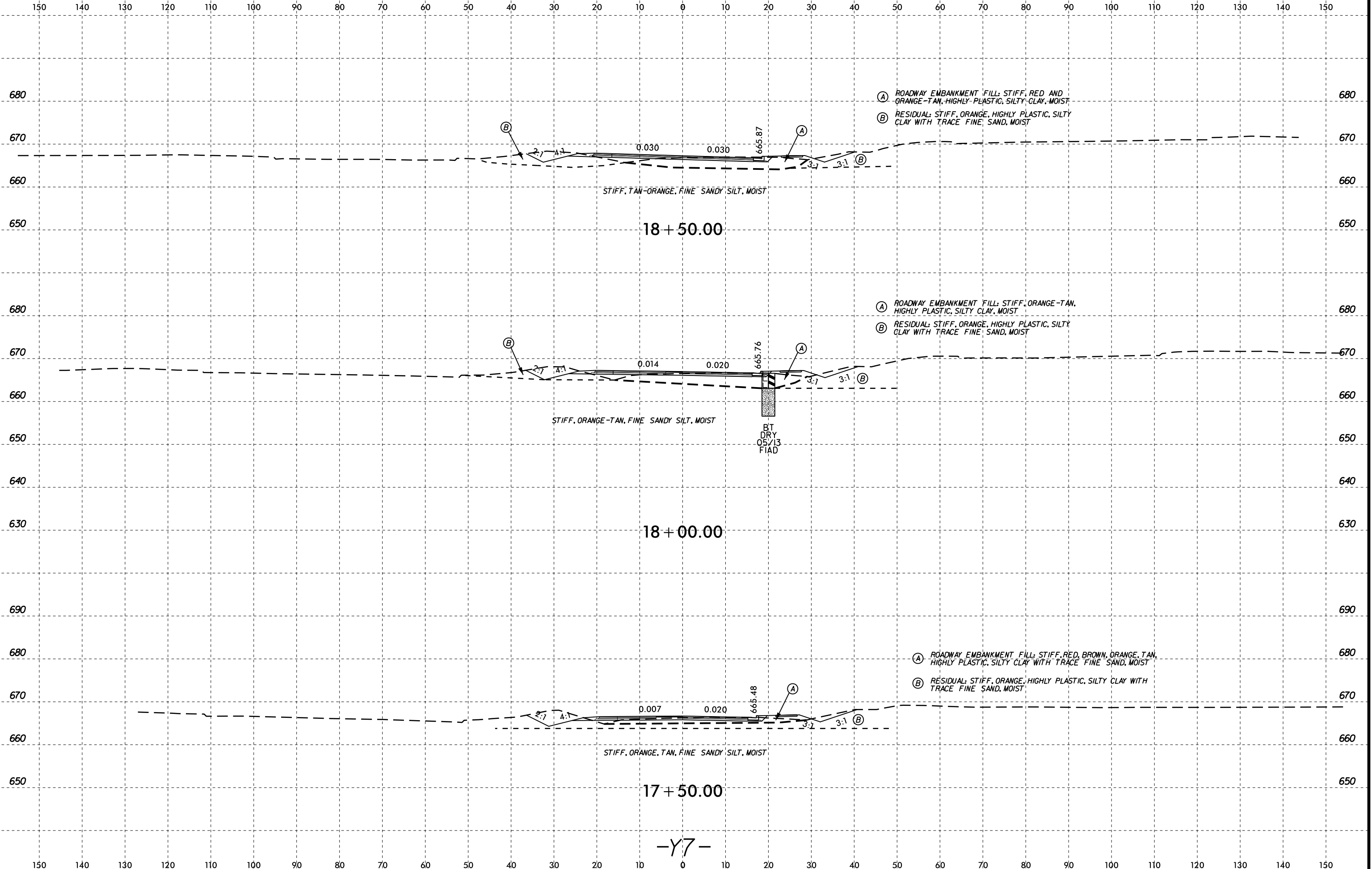
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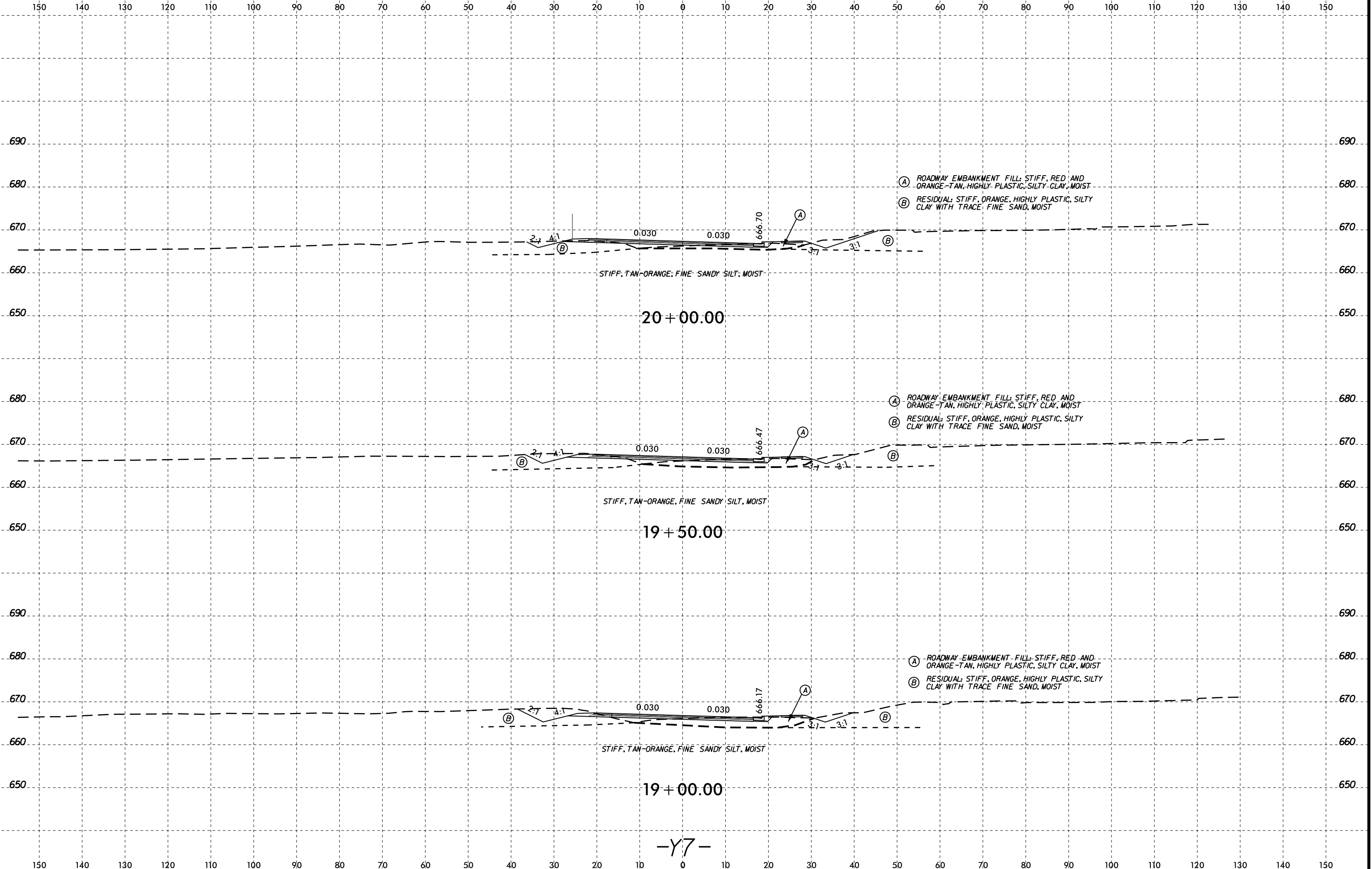
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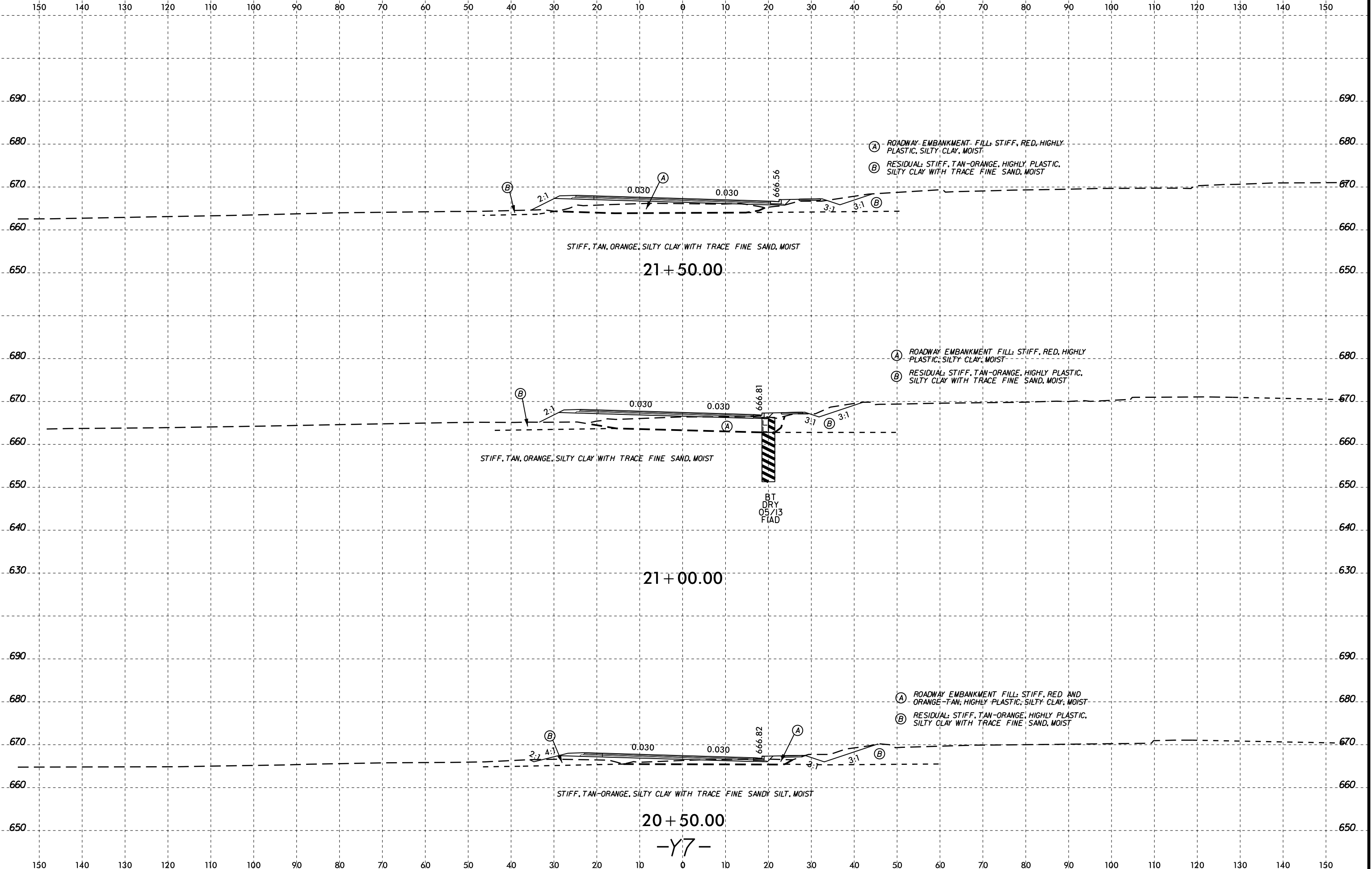
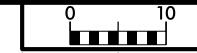
13 + 50.00

-Y7-







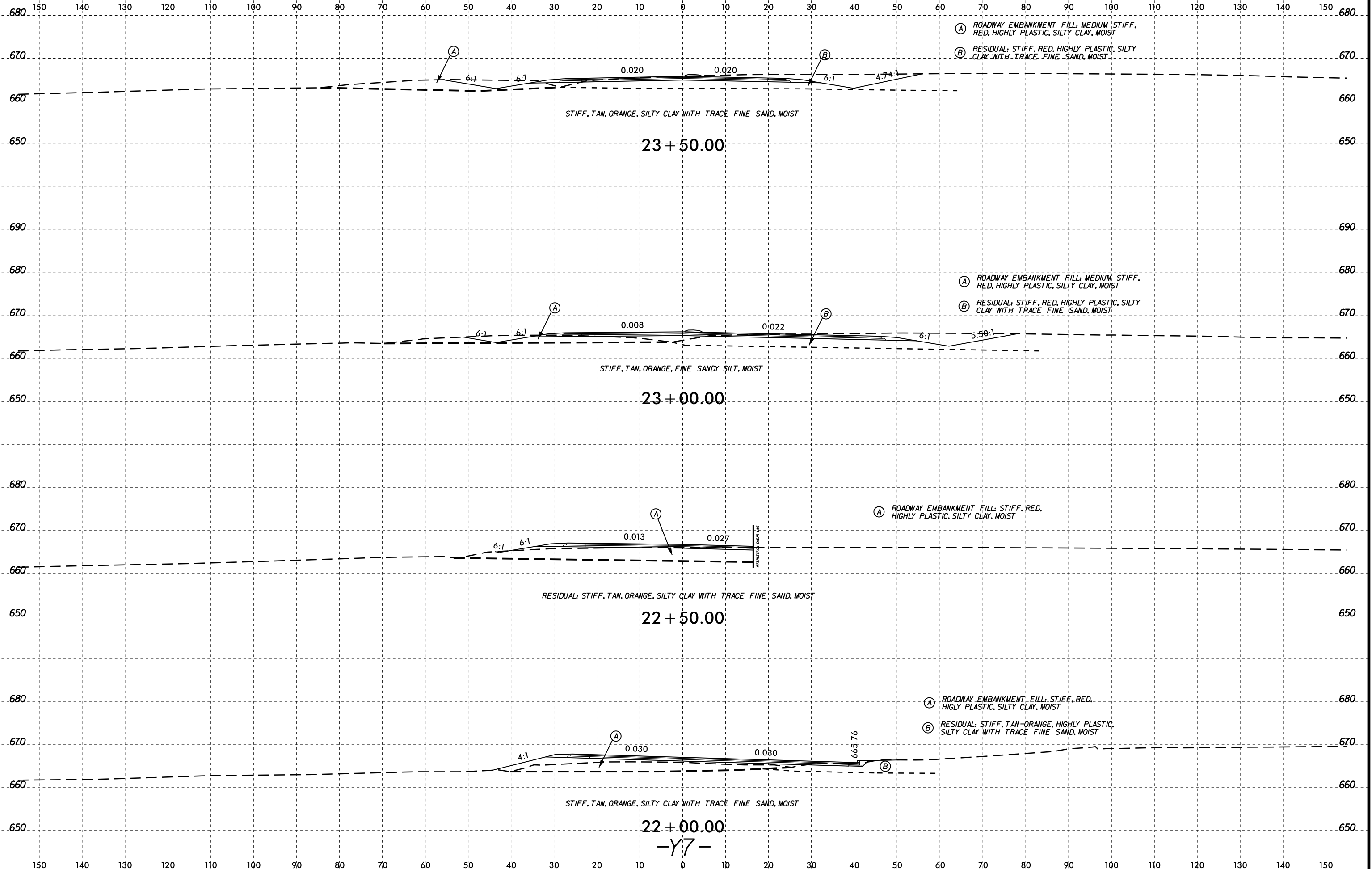


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	184



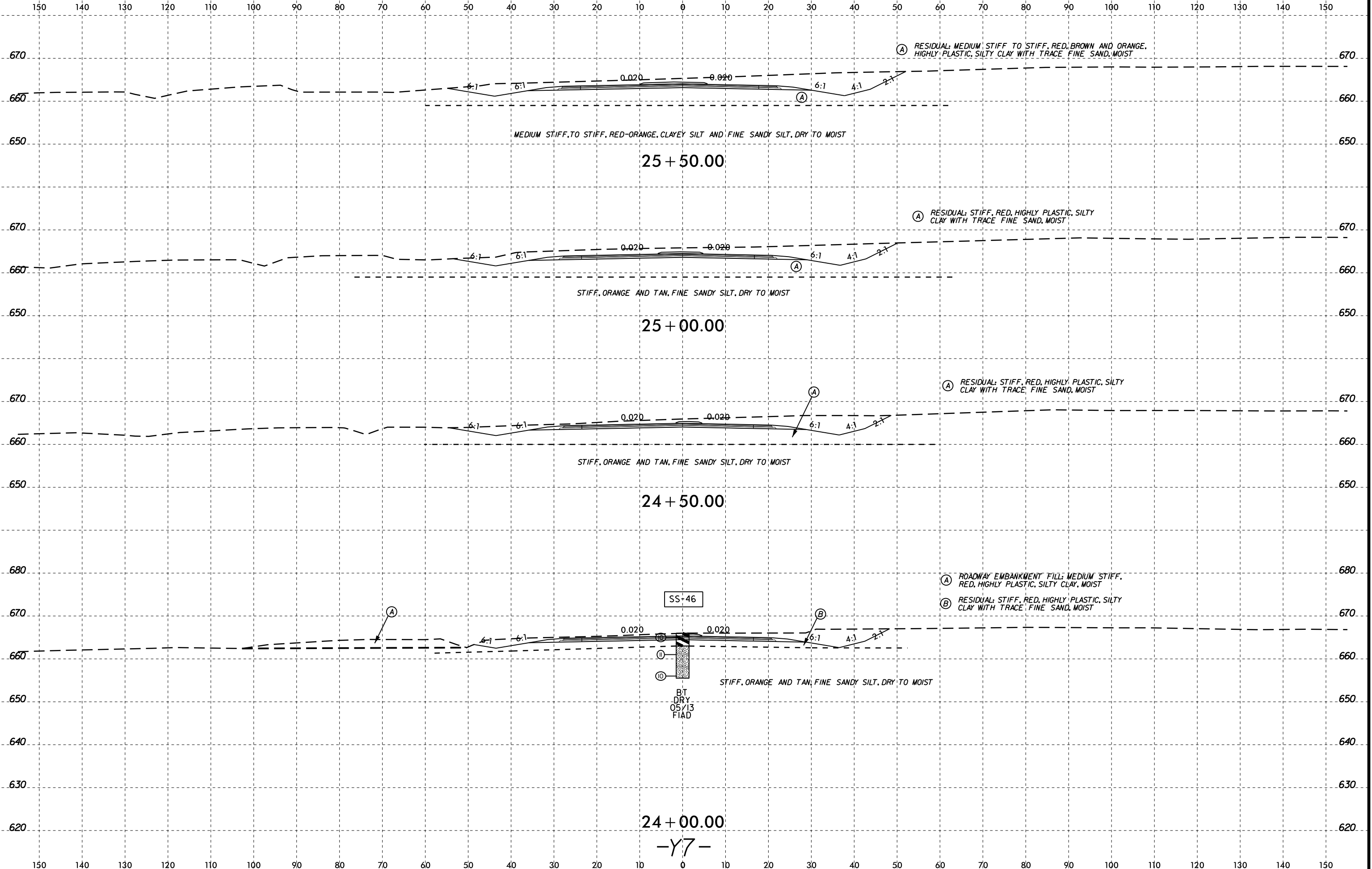
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-Y7-

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	185



MEDIUM STIFF, TO STIFF, RED-ORANGE, CLAYEY SILT AND FINE SANDY SILT, DRY TO MOIST
 25 + 50.00

STIFF, ORANGE AND TAN, FINE SANDY SILT, DRY TO MOIST
 25 + 00.00

STIFF, ORANGE AND TAN, FINE SANDY SILT, DRY TO MOIST
 24 + 50.00

SS-46

BT
 DRY
 05/13
 FIAD

STIFF, ORANGE AND TAN, FINE SANDY SILT, DRY TO MOIST

(A) RESIDUAL: MEDIUM STIFF TO STIFF, RED, BROWN AND ORANGE, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

(A) RESIDUAL: STIFF, RED, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

(A) RESIDUAL: STIFF, RED, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

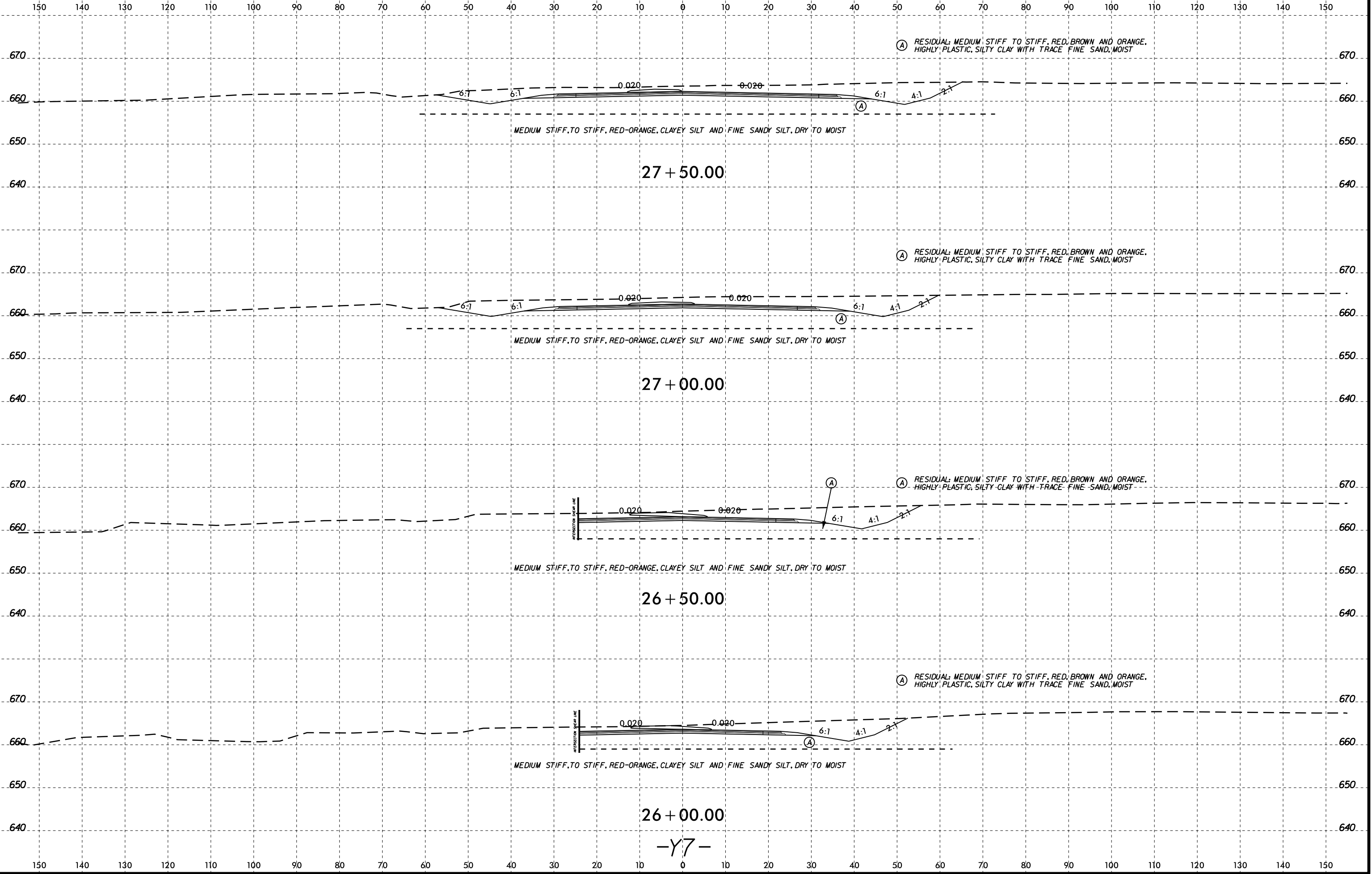
(A) ROADWAY EMBANKMENT FILL: MEDIUM STIFF, RED, HIGHLY PLASTIC, SILTY CLAY, MOIST

(B) RESIDUAL: STIFF, RED, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

24 + 00.00
 -Y7-

03-NOV-2014 12:28
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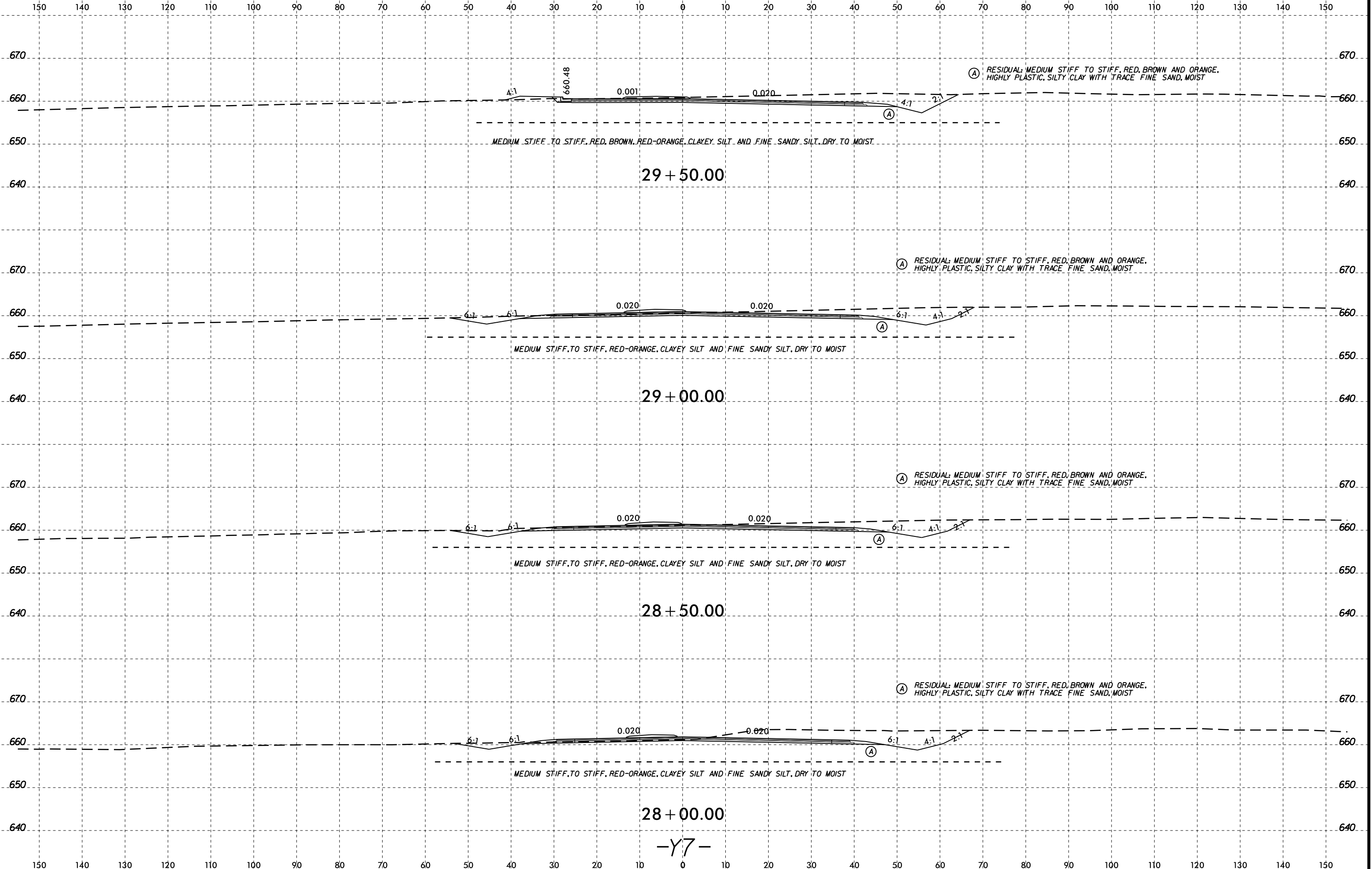
8/23/99
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C:\Users\joe\Documents\Projects\101\101.dgn



8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	187



29 + 50.00

29 + 00.00

28 + 50.00

28 + 00.00

-Y7-

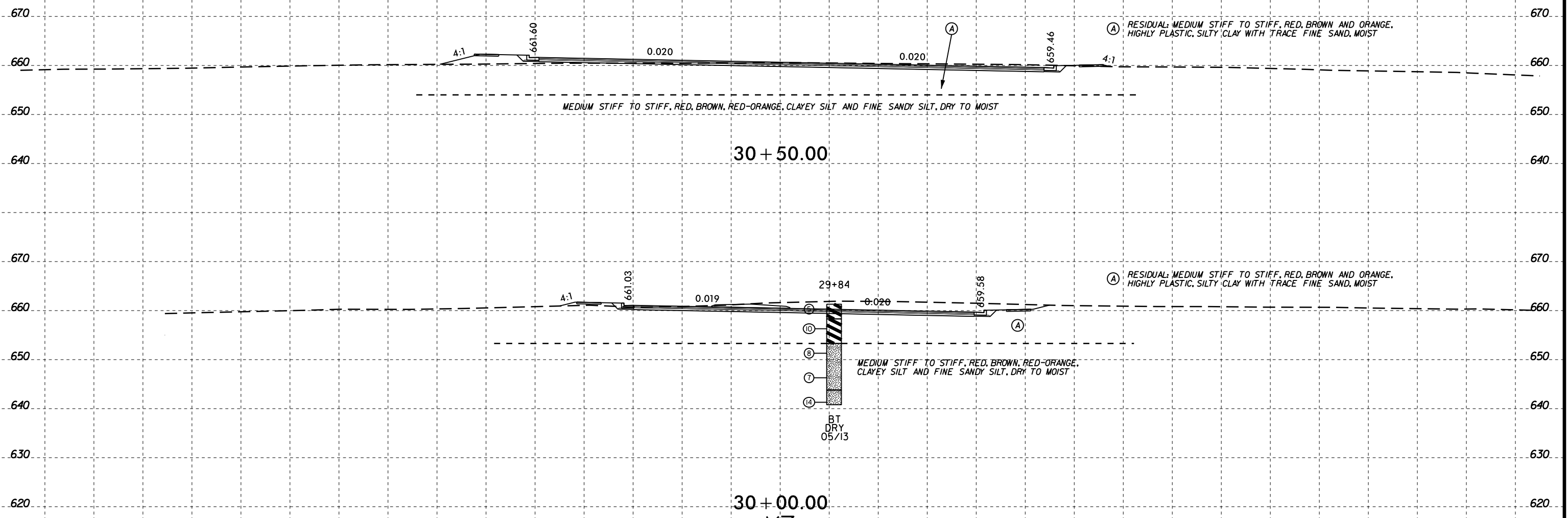
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8/23/99



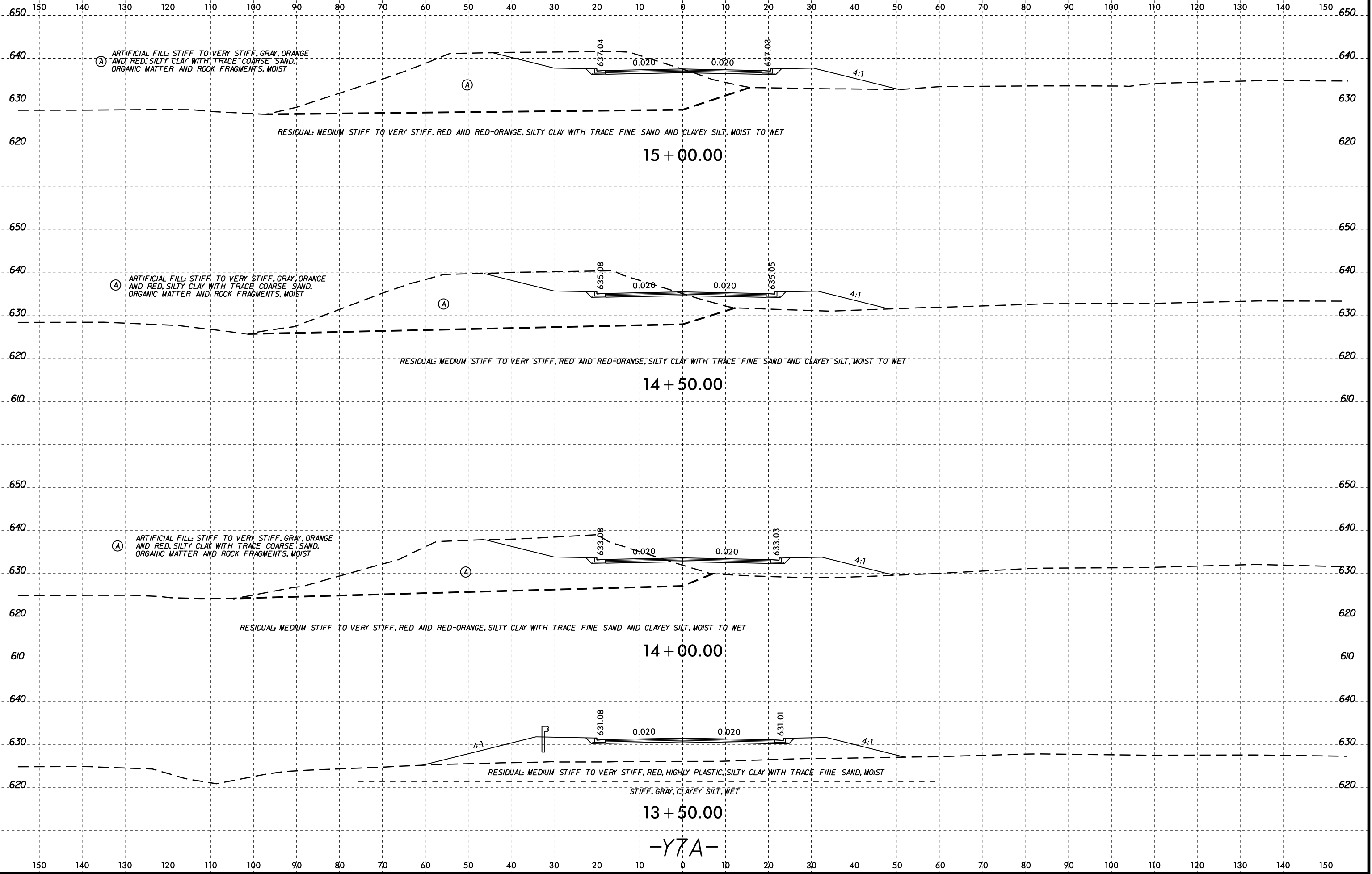
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U-3109A	188

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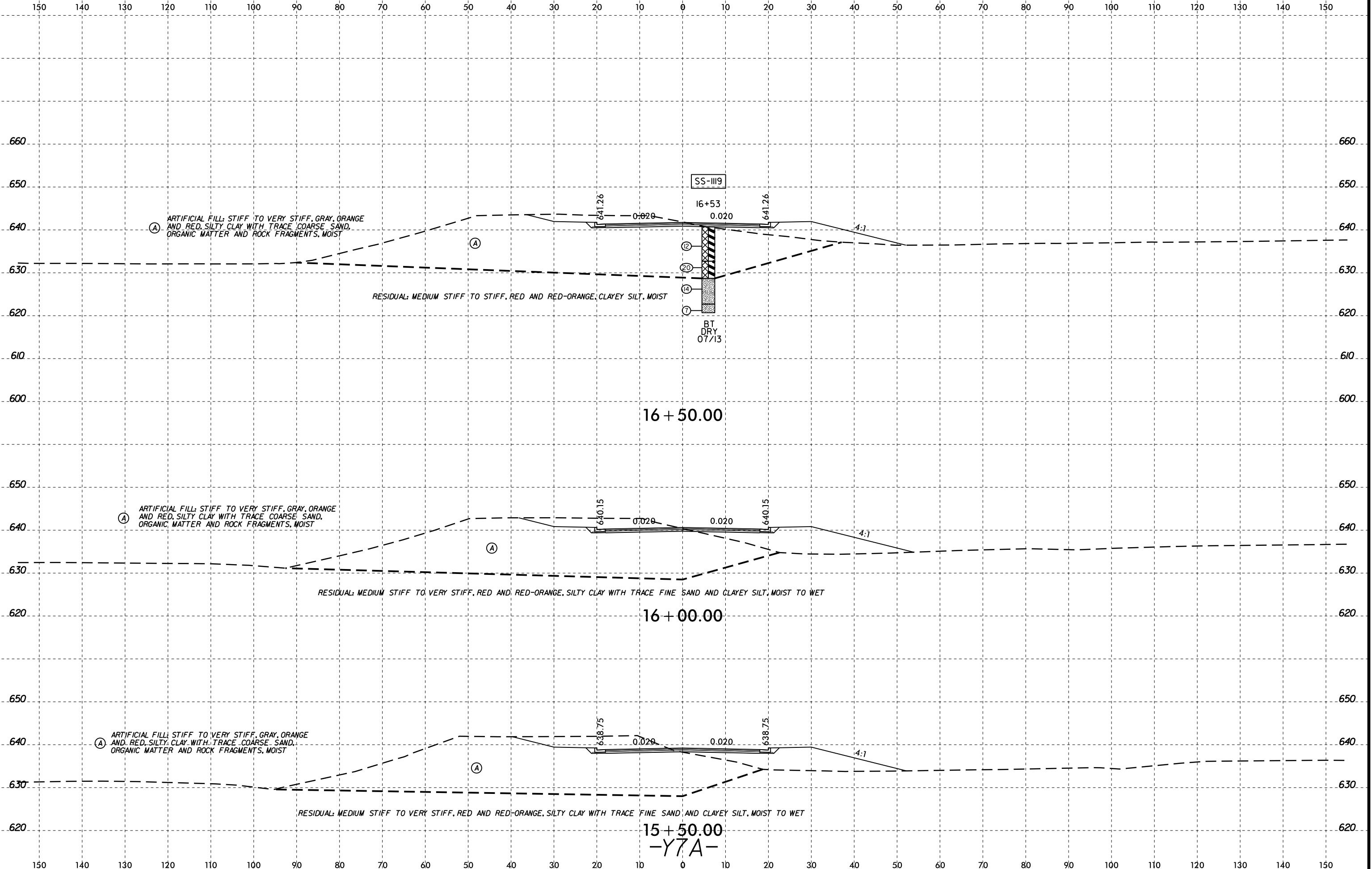
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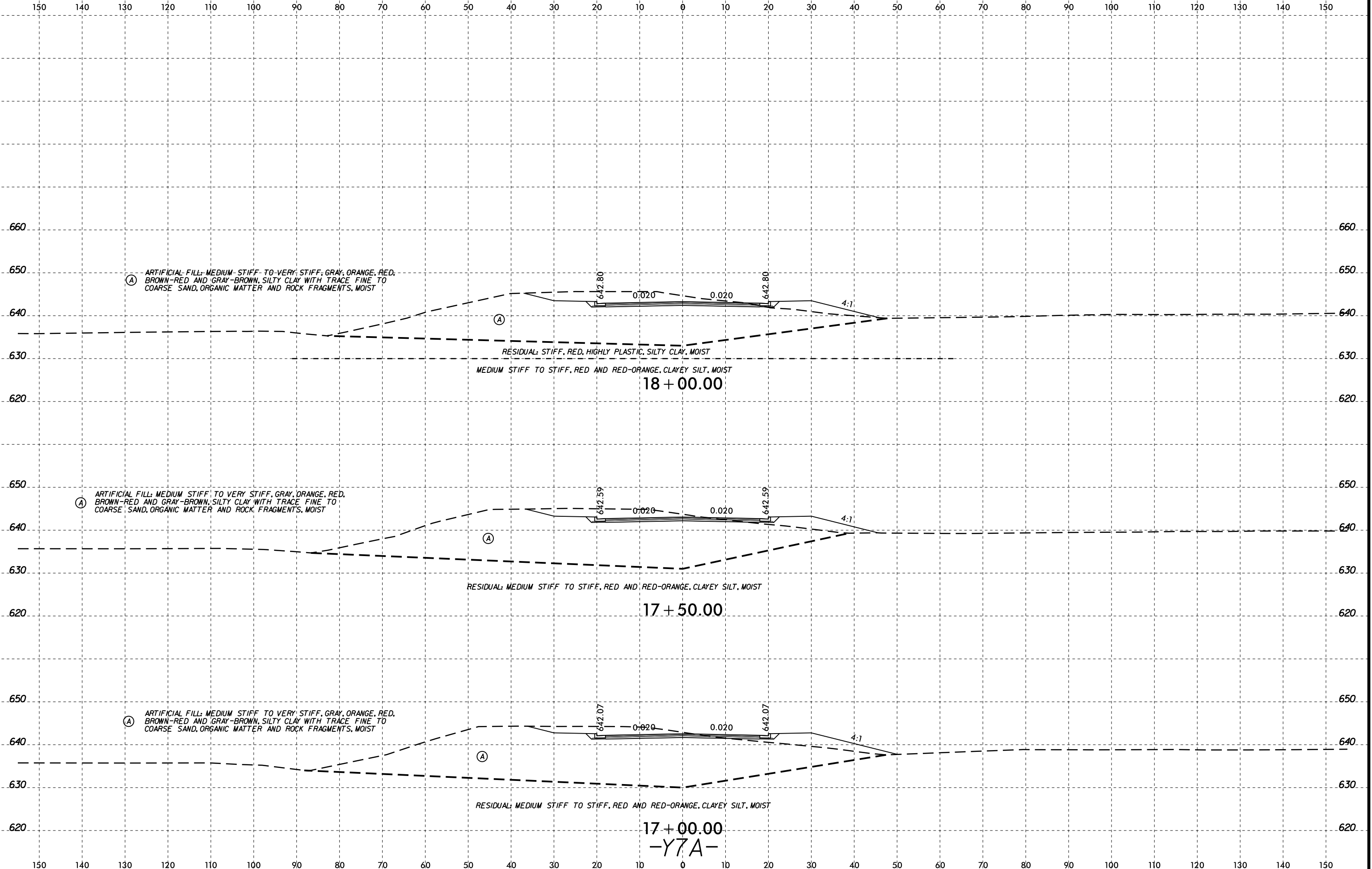
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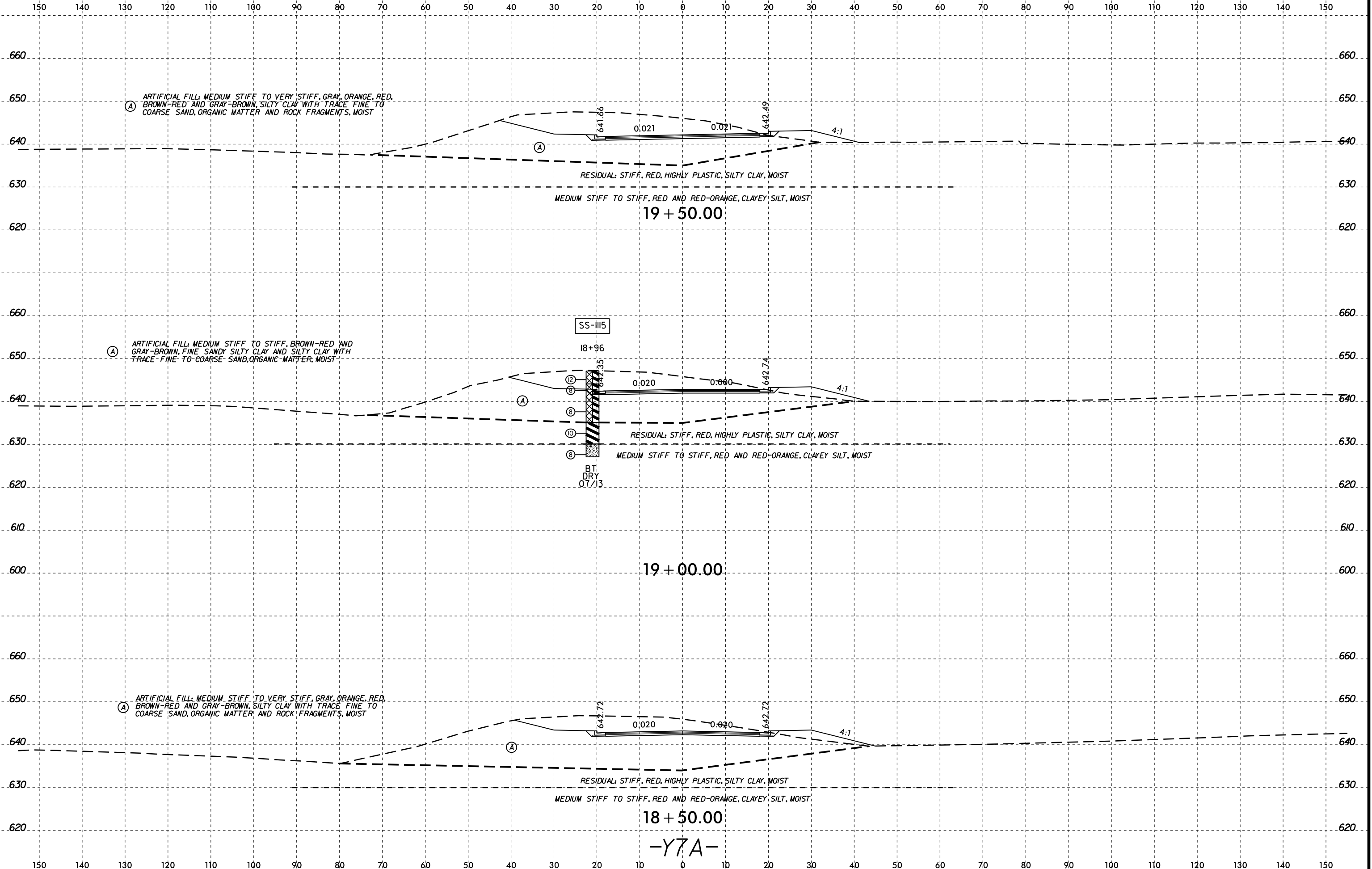
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17+00.00
-Y7A-

8/23/99

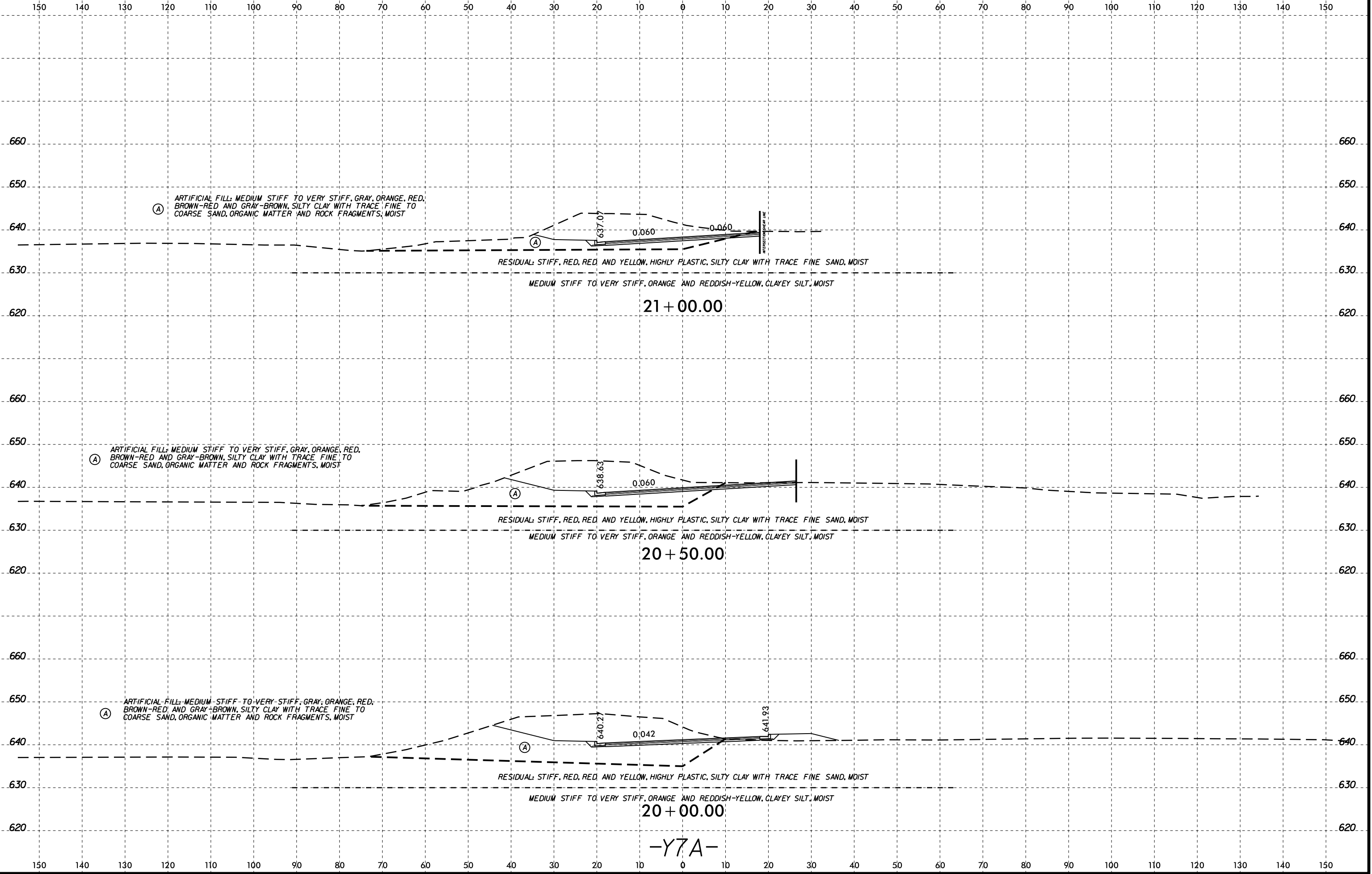


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	193



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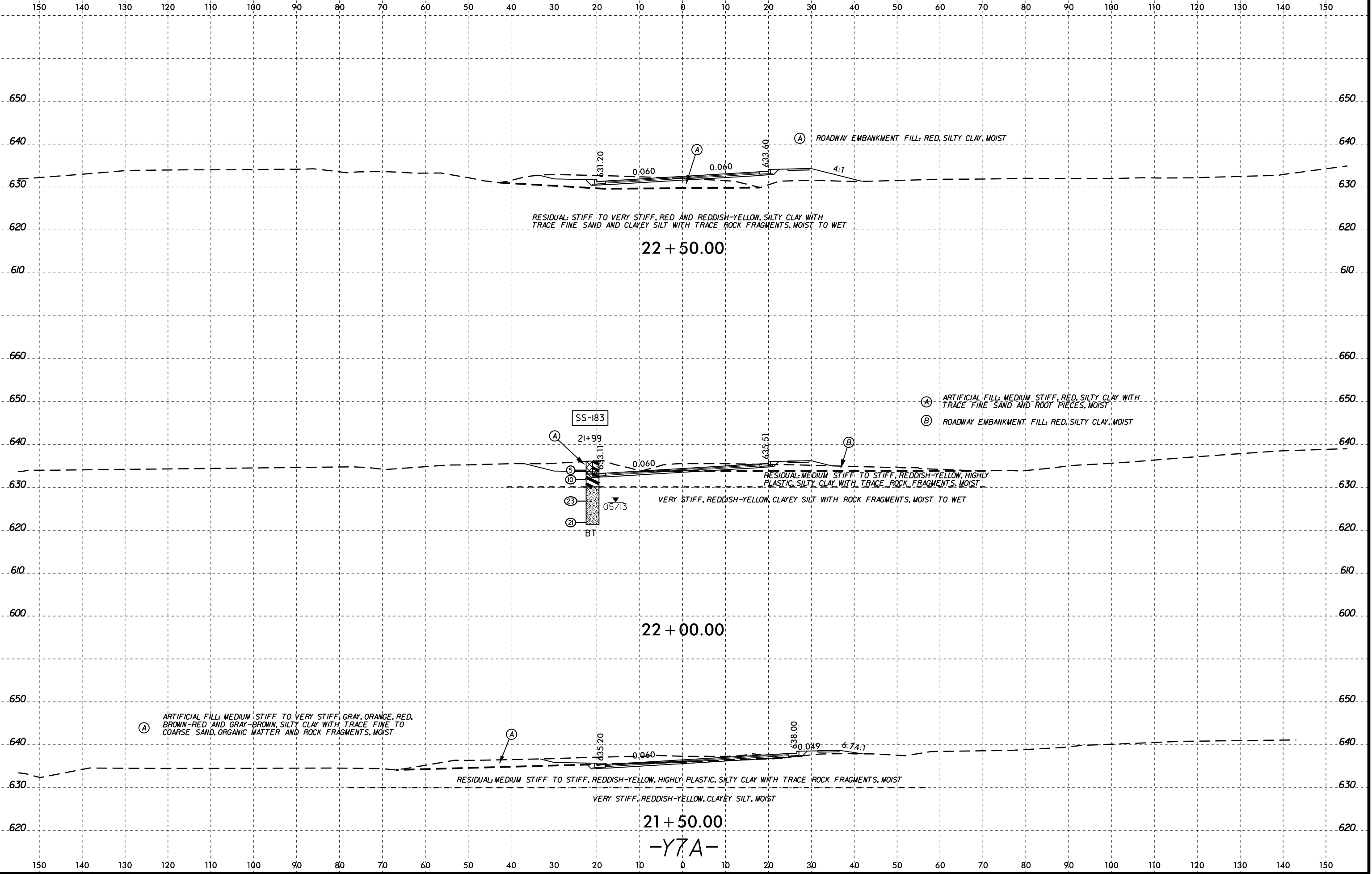
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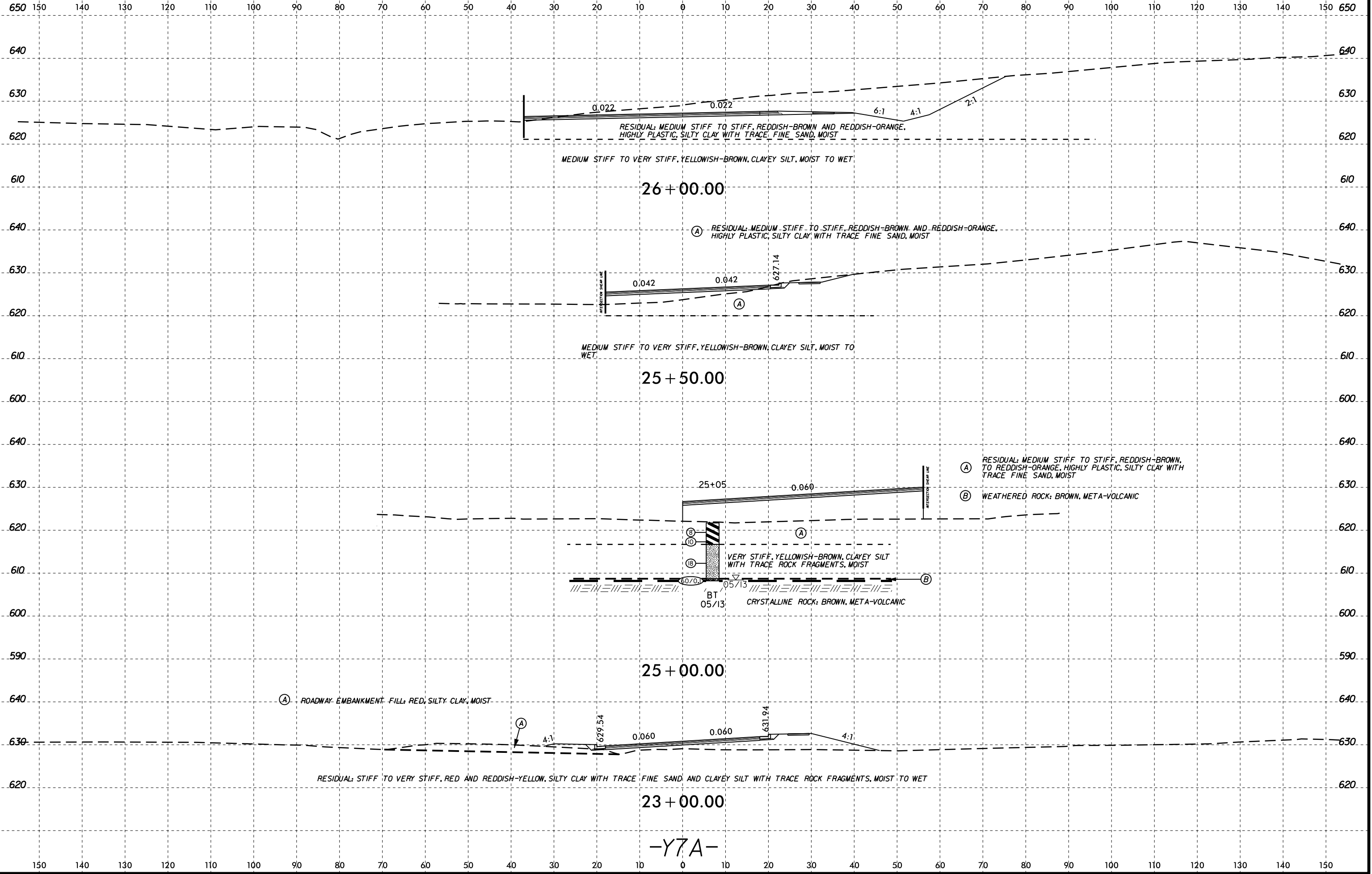
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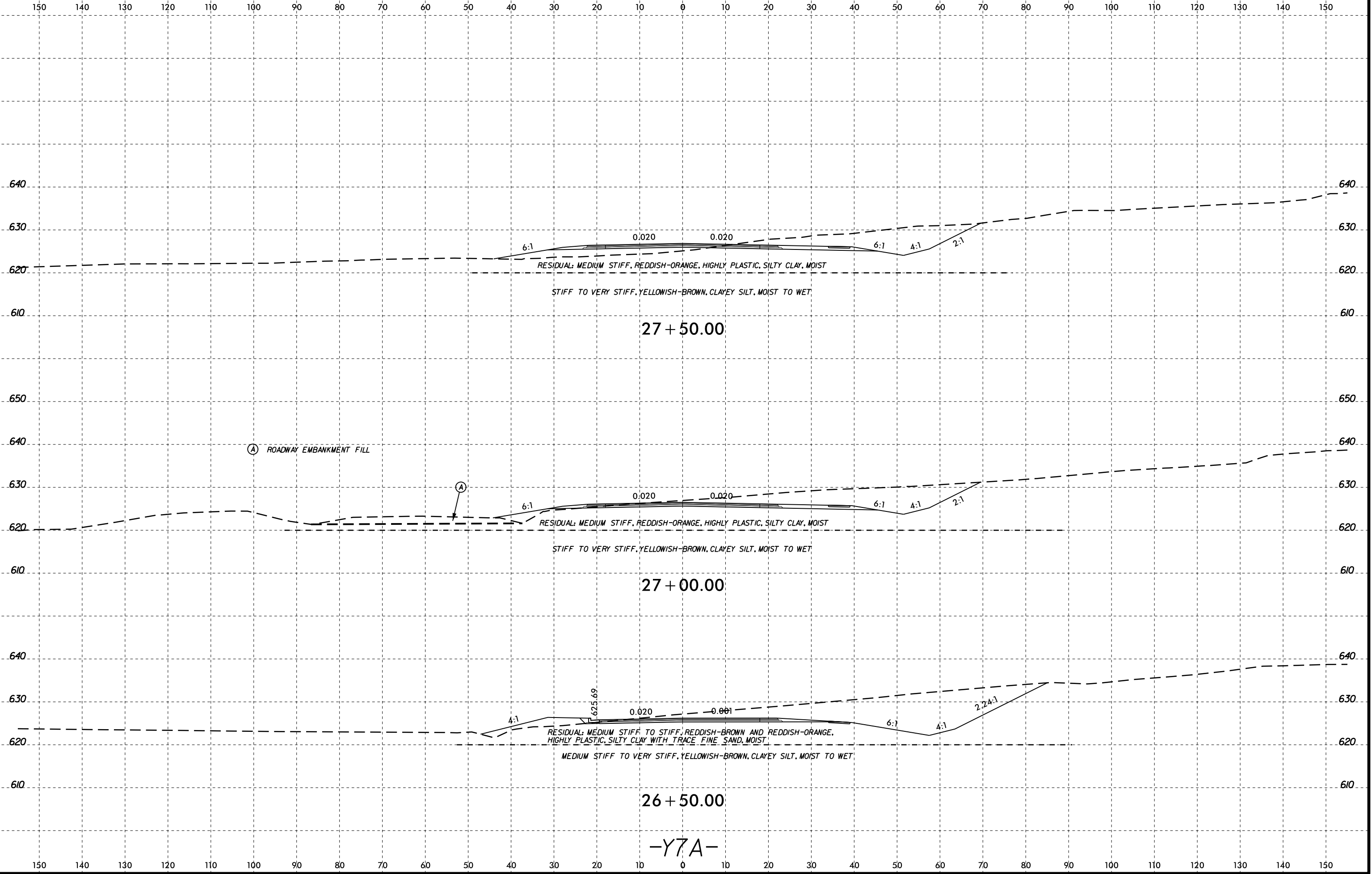
21 + 50.00
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8/23/99
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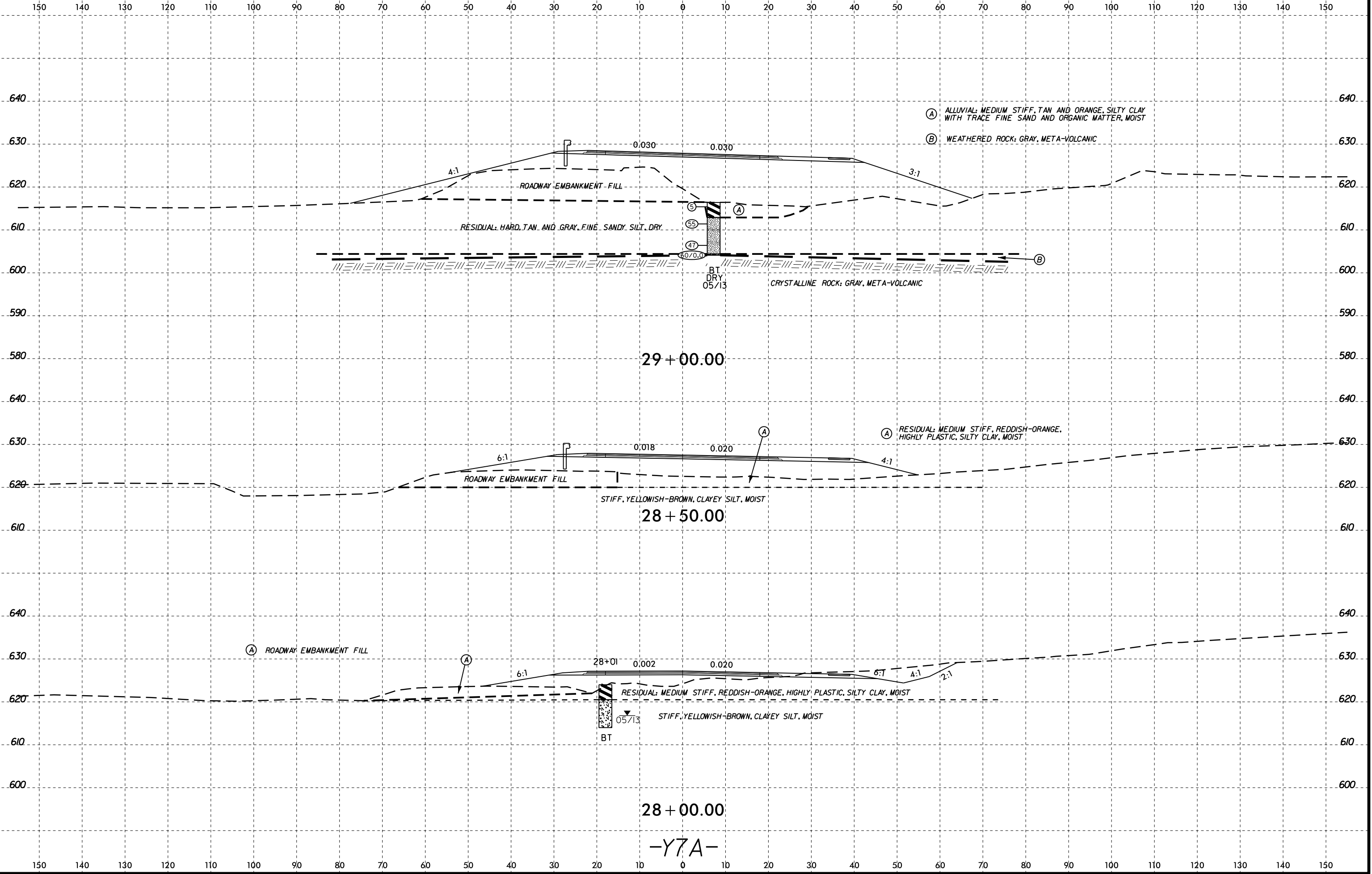
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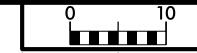


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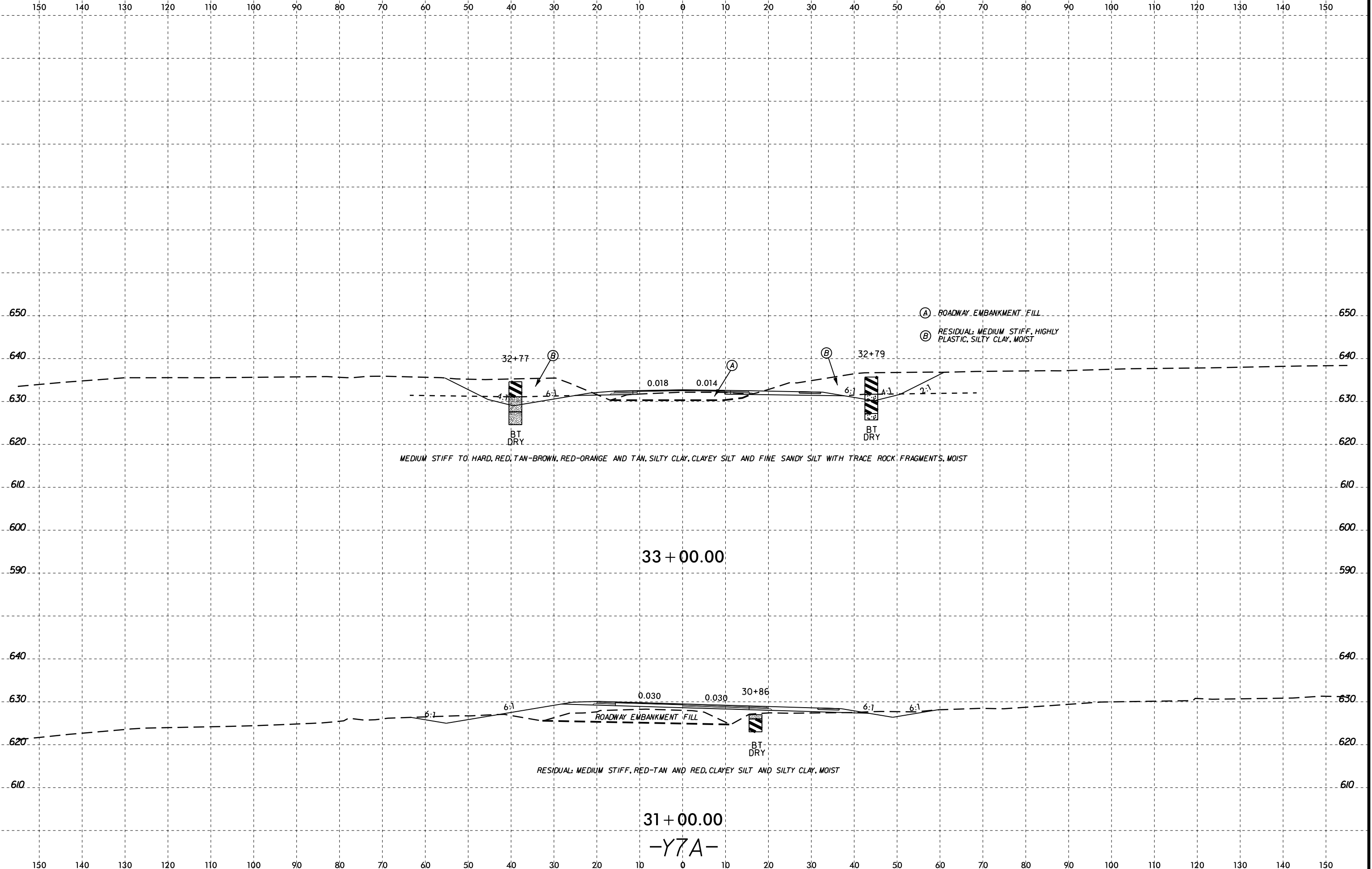
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	199



MEDIUM STIFF TO HARD, RED, TAN-BROWN, RED-ORANGE AND TAN, SILTY CLAY, CLAYEY SILT AND FINE SANDY SILT WITH TRACE ROCK FRAGMENTS, MOIST

33 + 00.00

RESIDUAL, MEDIUM STIFF, RED-TAN AND RED, CLAYEY SILT AND SILTY CLAY, MOIST

31 + 00.00

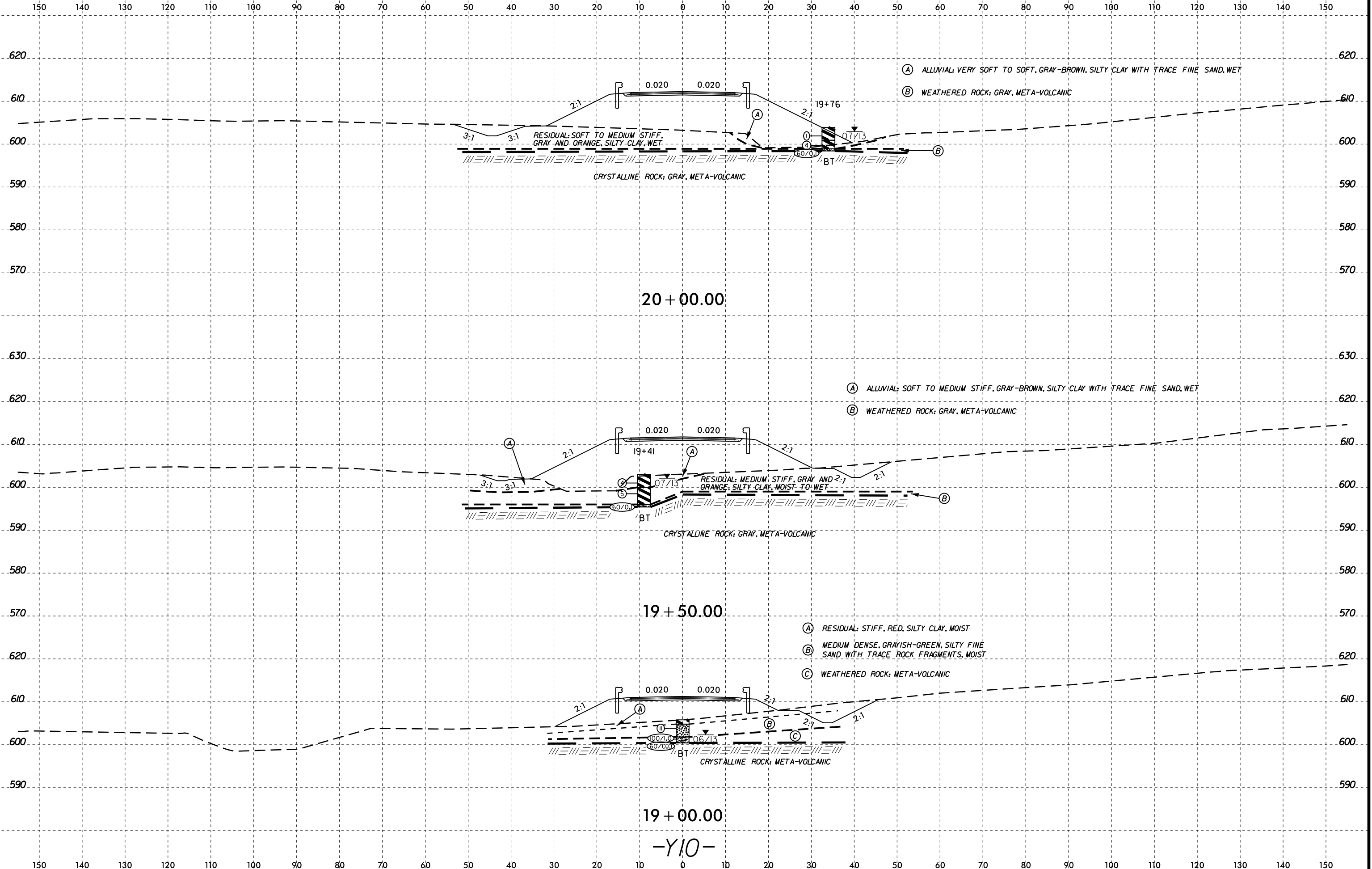
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8/23/99



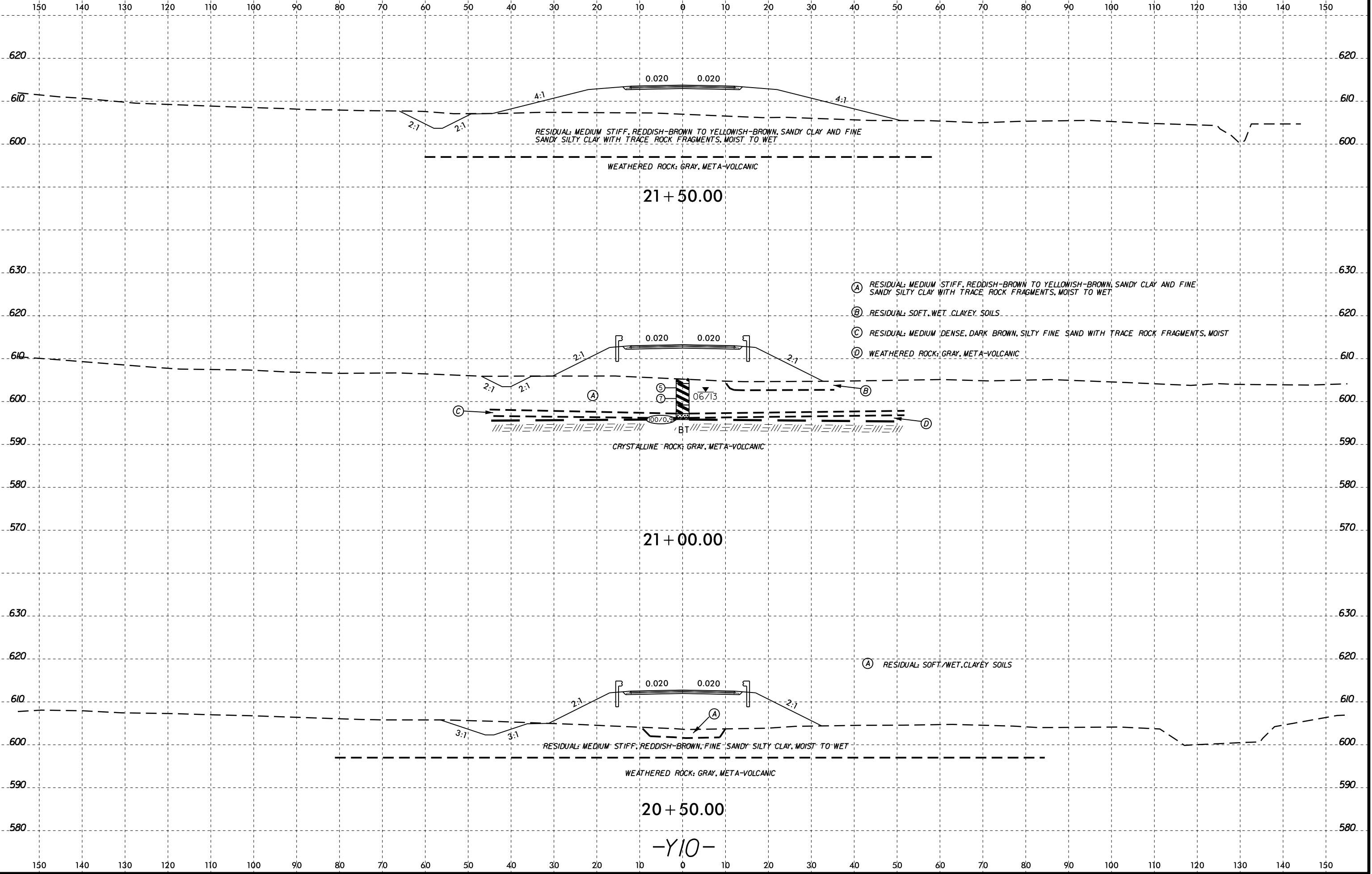
PROJ. REFERENCE NO.	SHEET NO.
U-3109A	201



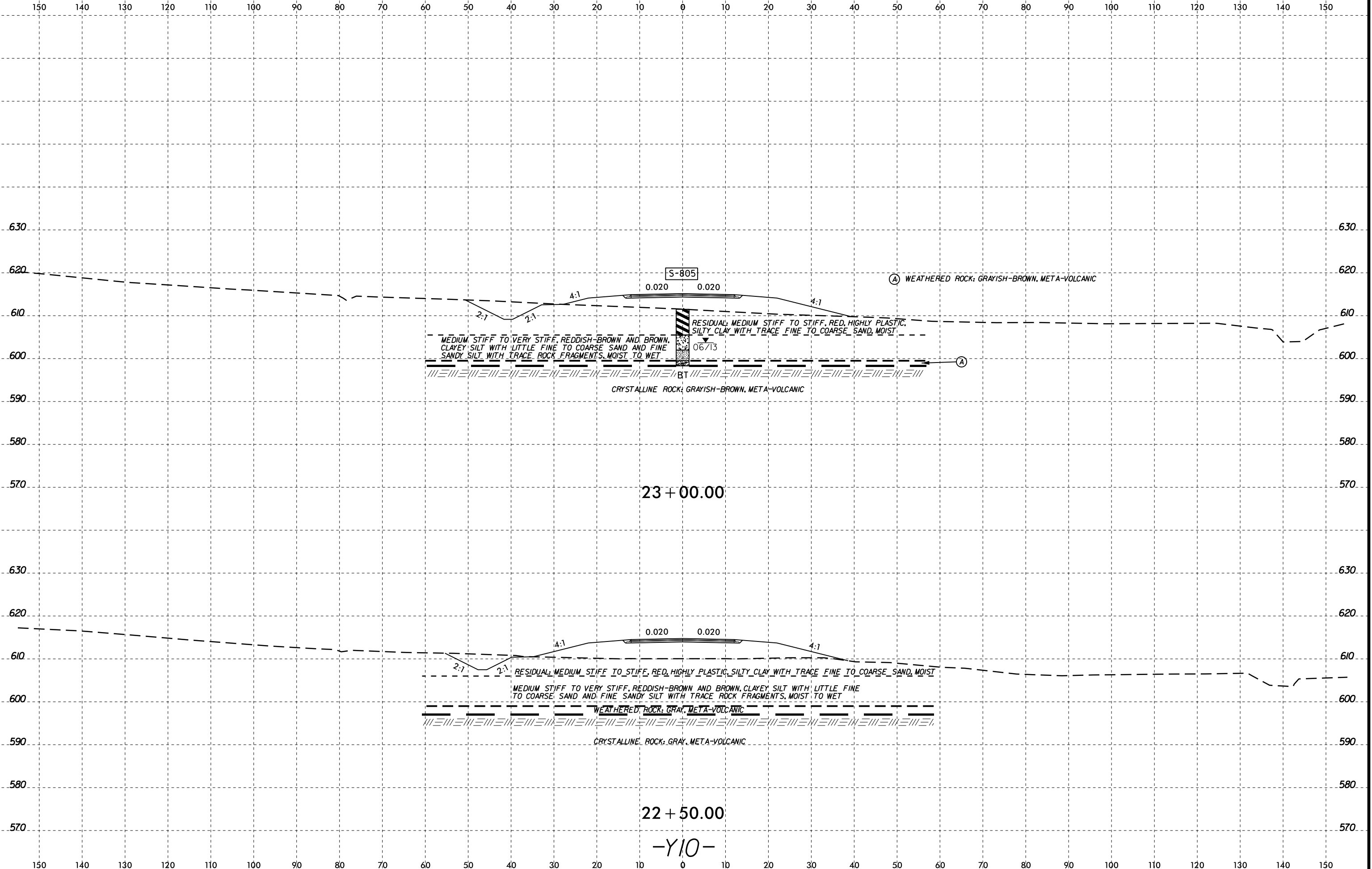
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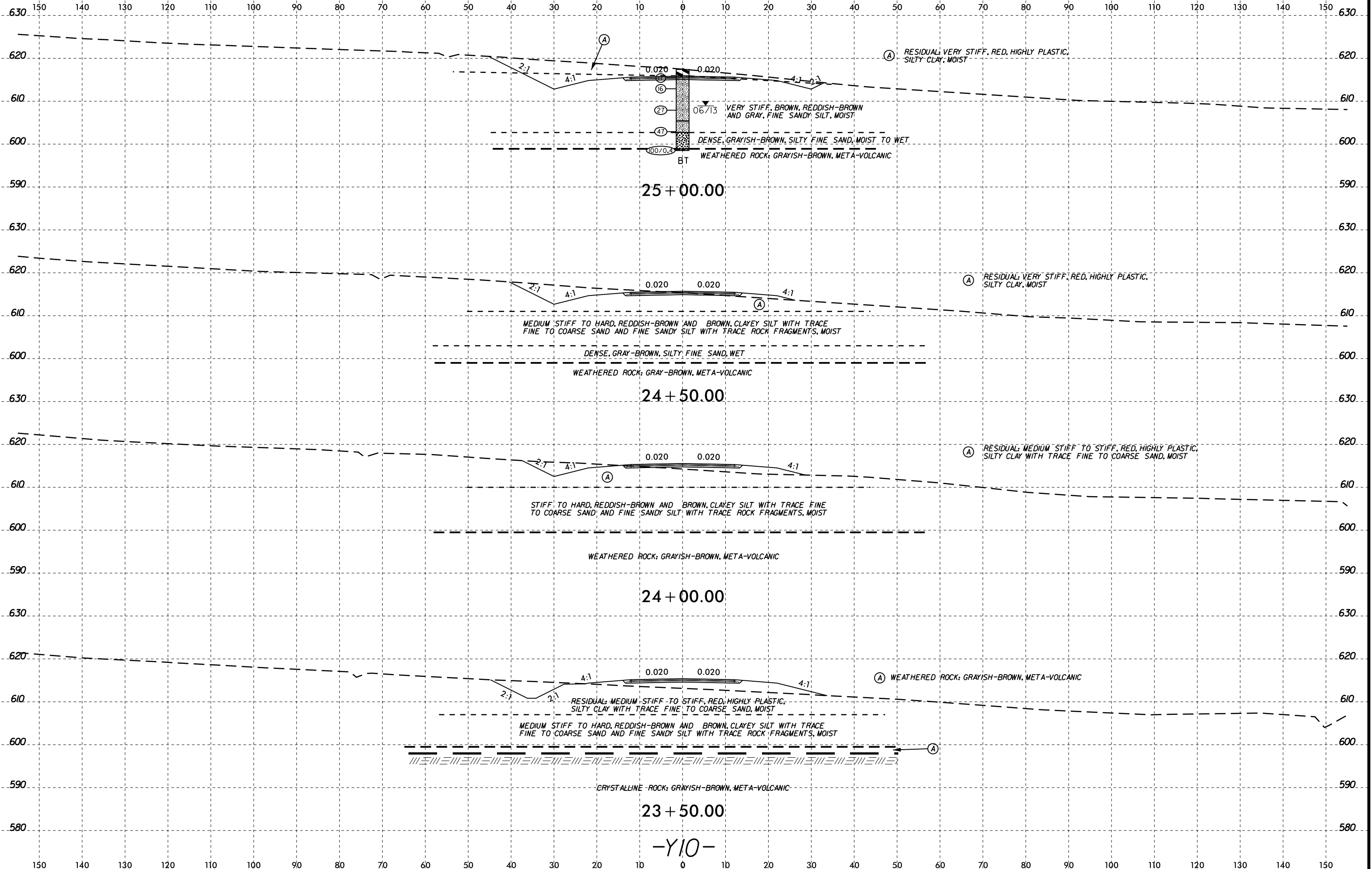
8/23/99
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8/23/99
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Colour:ahie



8/23/99
03-NOV-2014 12:29
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Color: white



25 + 00.00

24 + 50.00

24 + 00.00

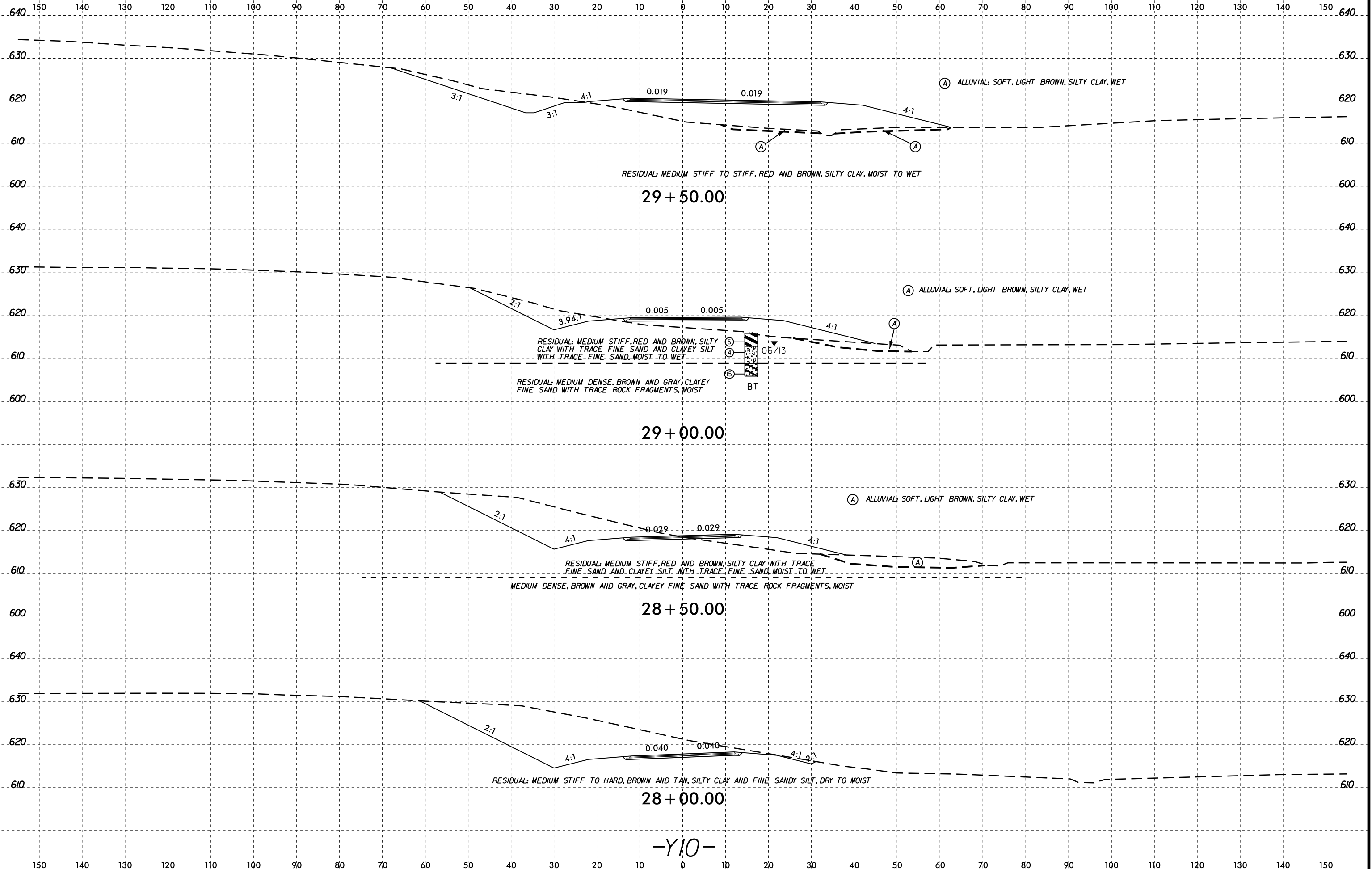
23 + 50.00

-Y10-

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	205



29 + 50.00

29 + 00.00

28 + 50.00

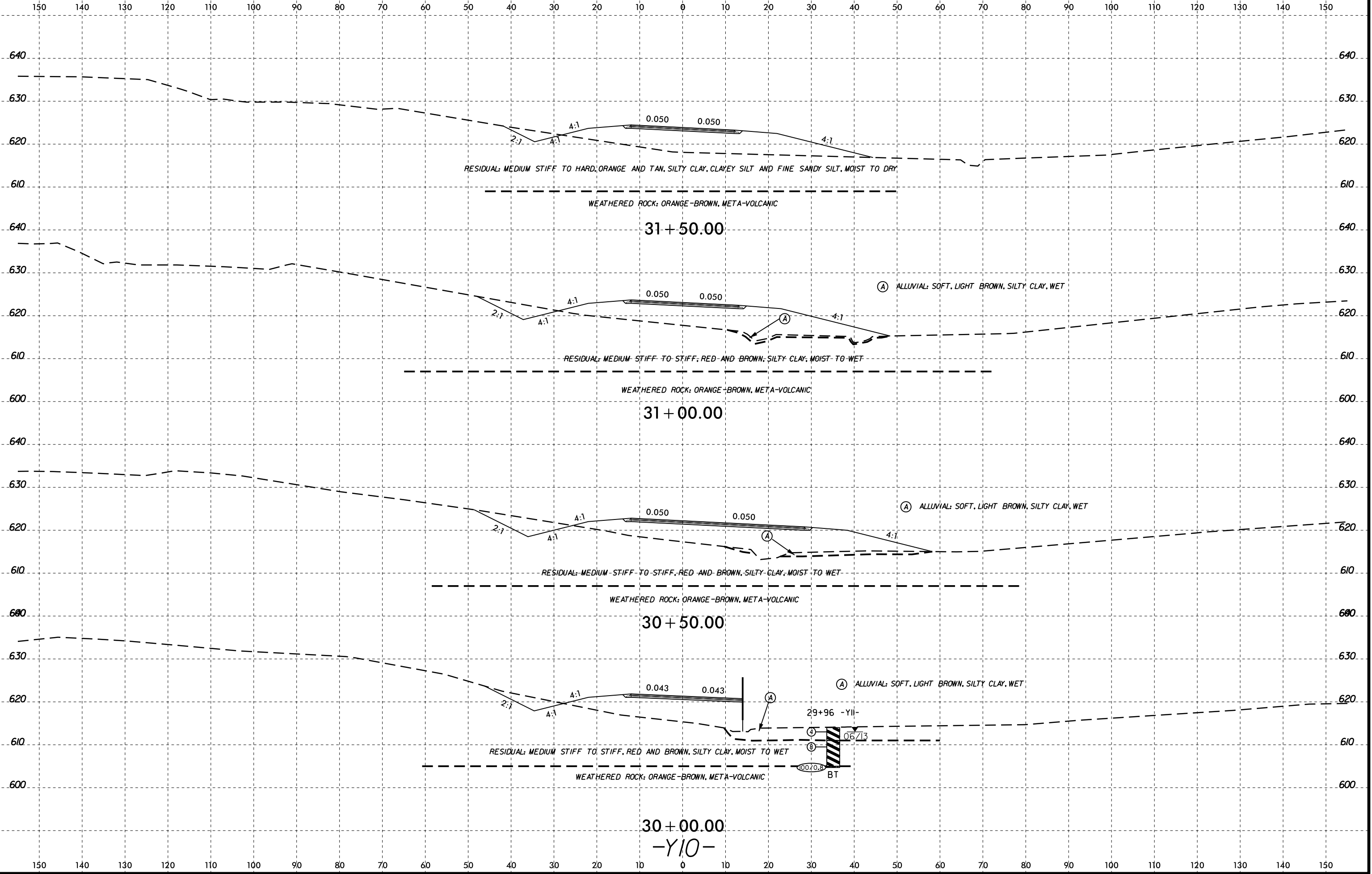
28 + 00.00

-Y10-

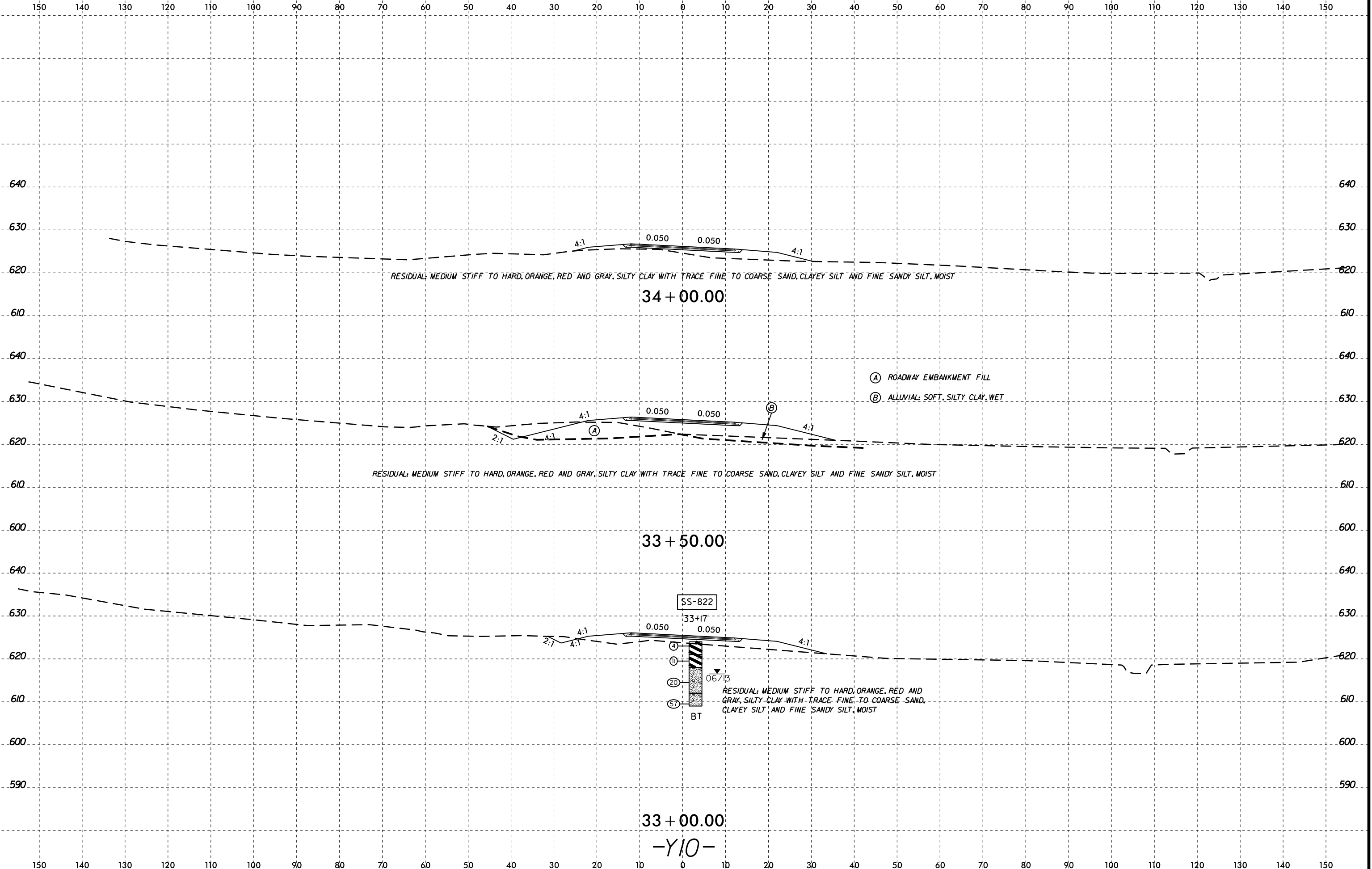
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8/23/99
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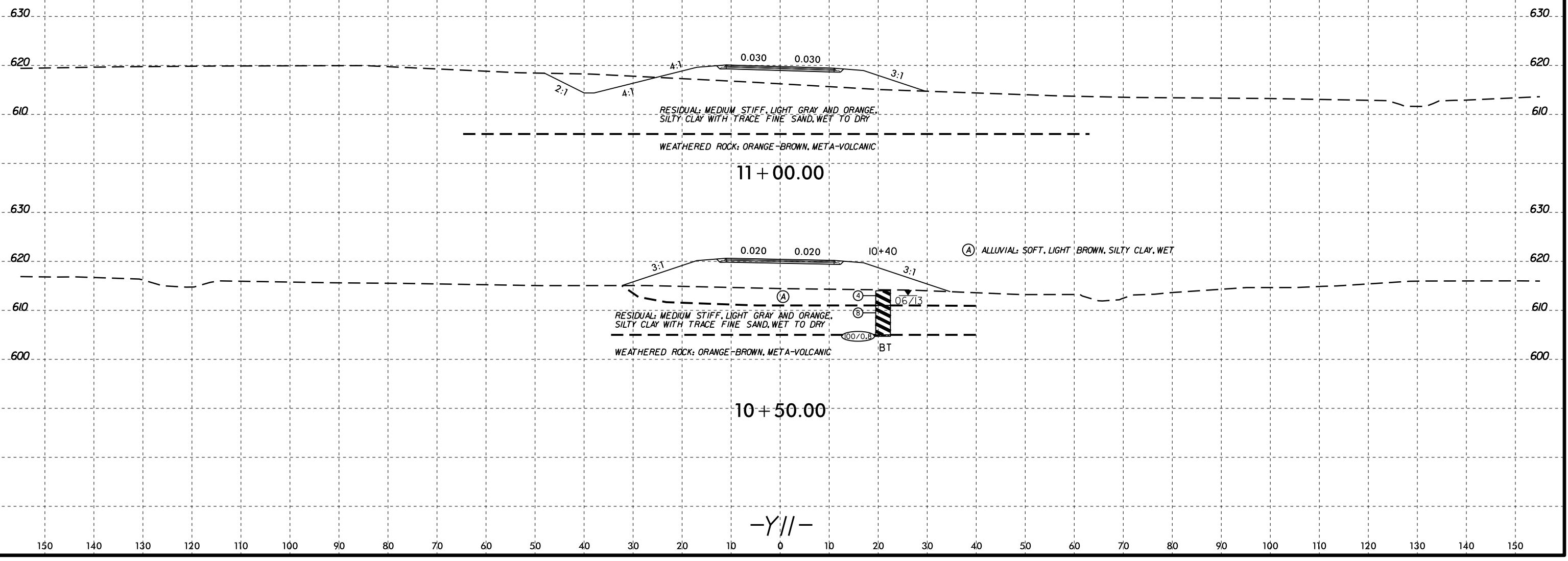


8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	208

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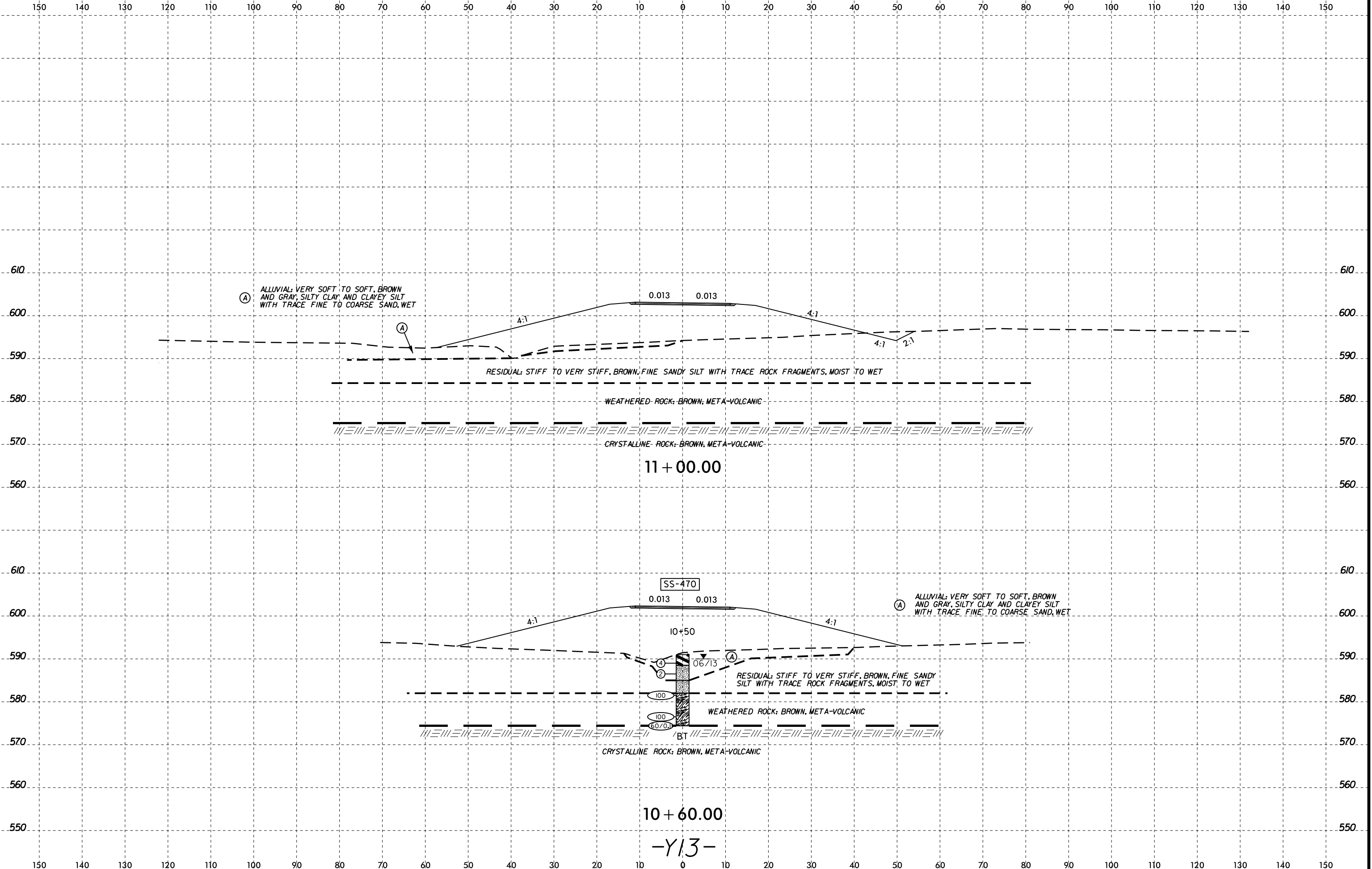


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	209



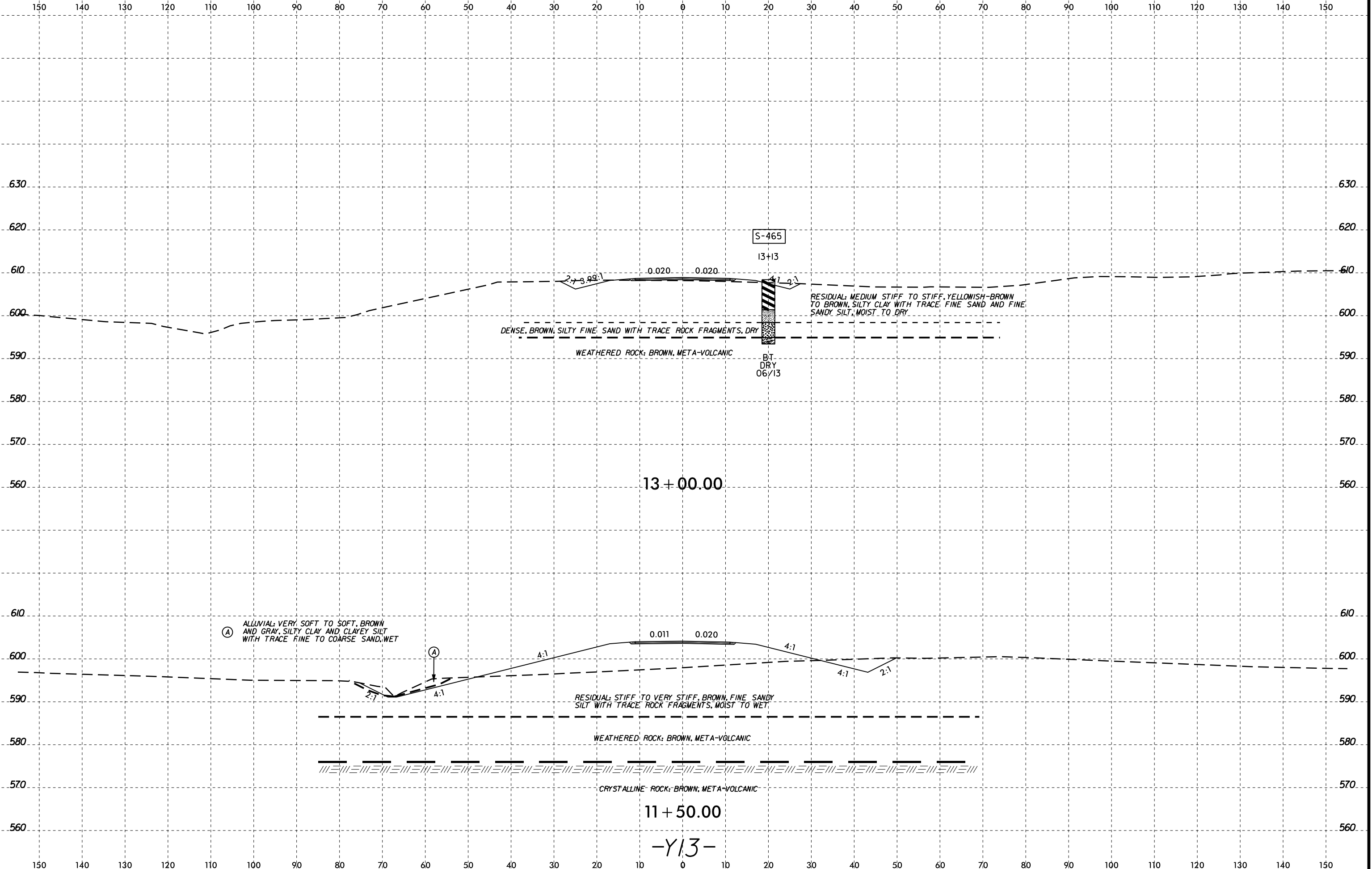
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 younghie

-Y13-

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	210



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13 + 00.00

11 + 50.00

-Y13-

(A) ALLUVIAL, VERY SOFT TO SOFT, BROWN
 AND GRAY, SILTY CLAY AND CLAYEY SILT
 WITH TRACE FINE TO COARSE SAND, WET

DENSE, BROWN, SILTY FINE SAND WITH TRACE ROCK FRAGMENTS, DRY

RESIDUAL: MEDIUM STIFF TO STIFF, YELLOWISH-BROWN
 TO BROWN, SILTY CLAY WITH TRACE FINE SAND AND FINE
 SANDY SILT, MOIST TO DRY

WEATHERED ROCK: BROWN, META-VOLCANIC

RESIDUAL: STIFF TO VERY STIFF, BROWN, FINE SANDY
 SILT WITH TRACE ROCK FRAGMENTS, MOIST TO WET

WEATHERED ROCK: BROWN, META-VOLCANIC

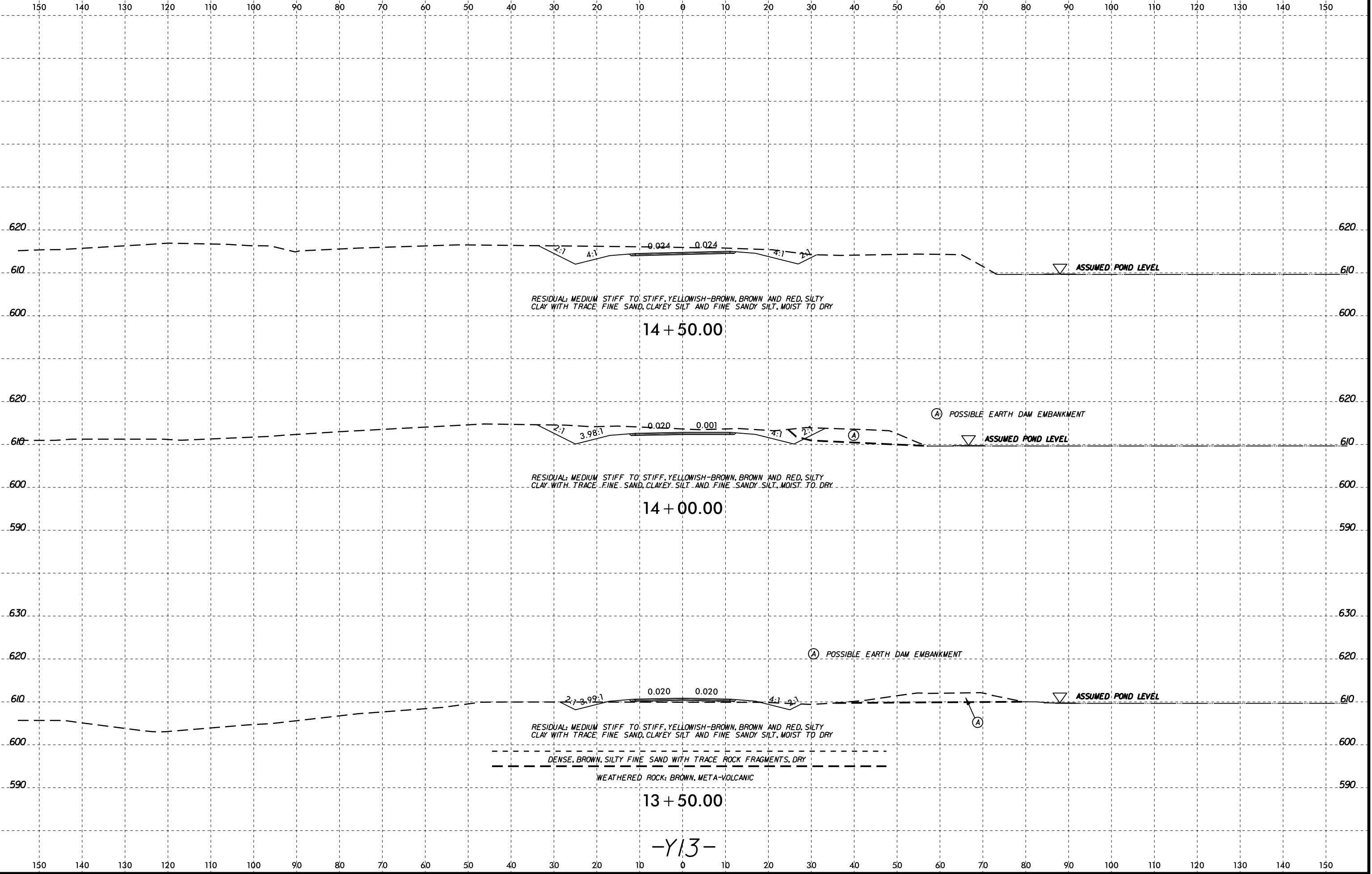
CRYSTALLINE ROCK: BROWN, META-VOLCANIC

S-465

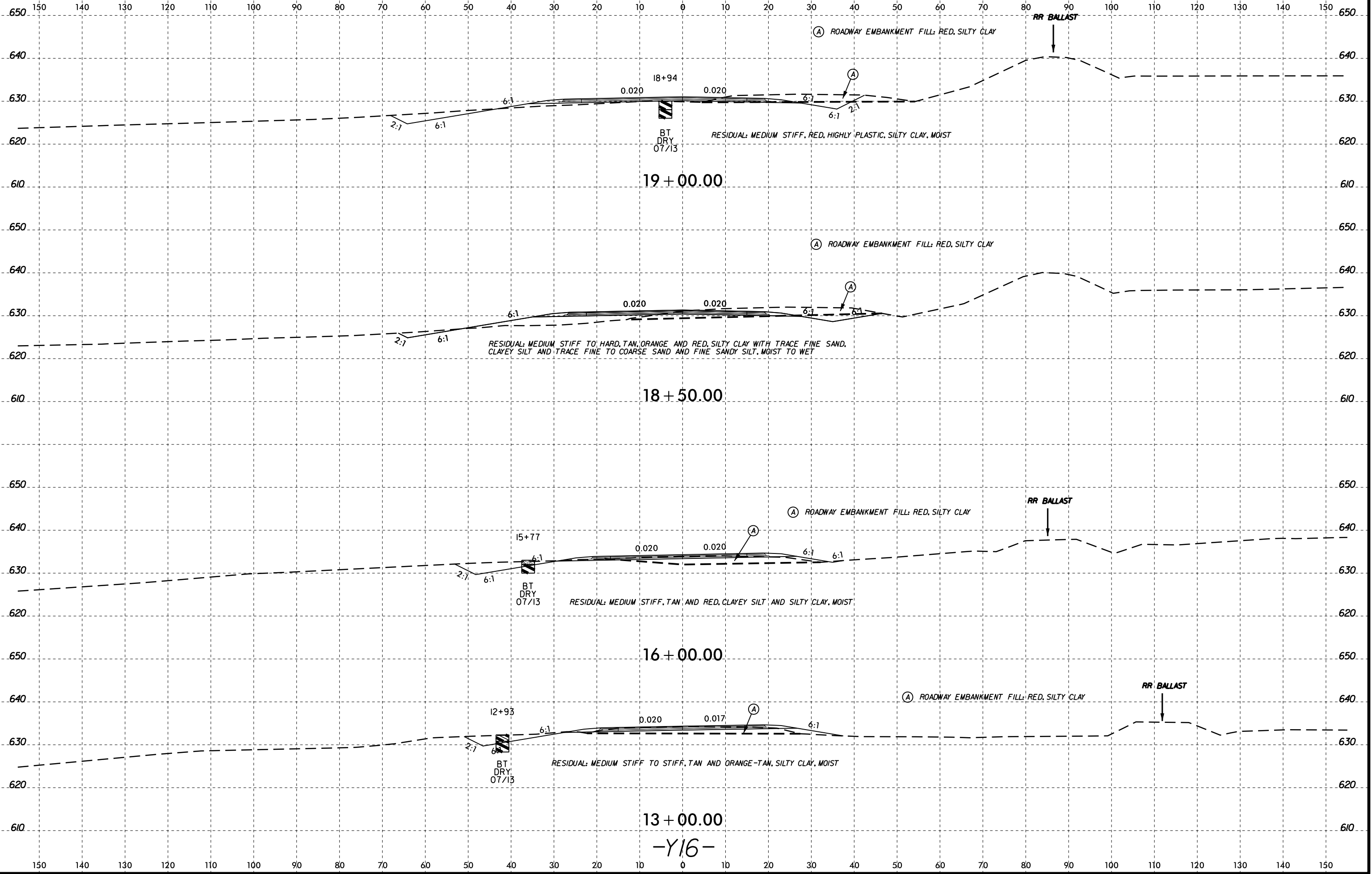
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BT
 DRY
 06/13

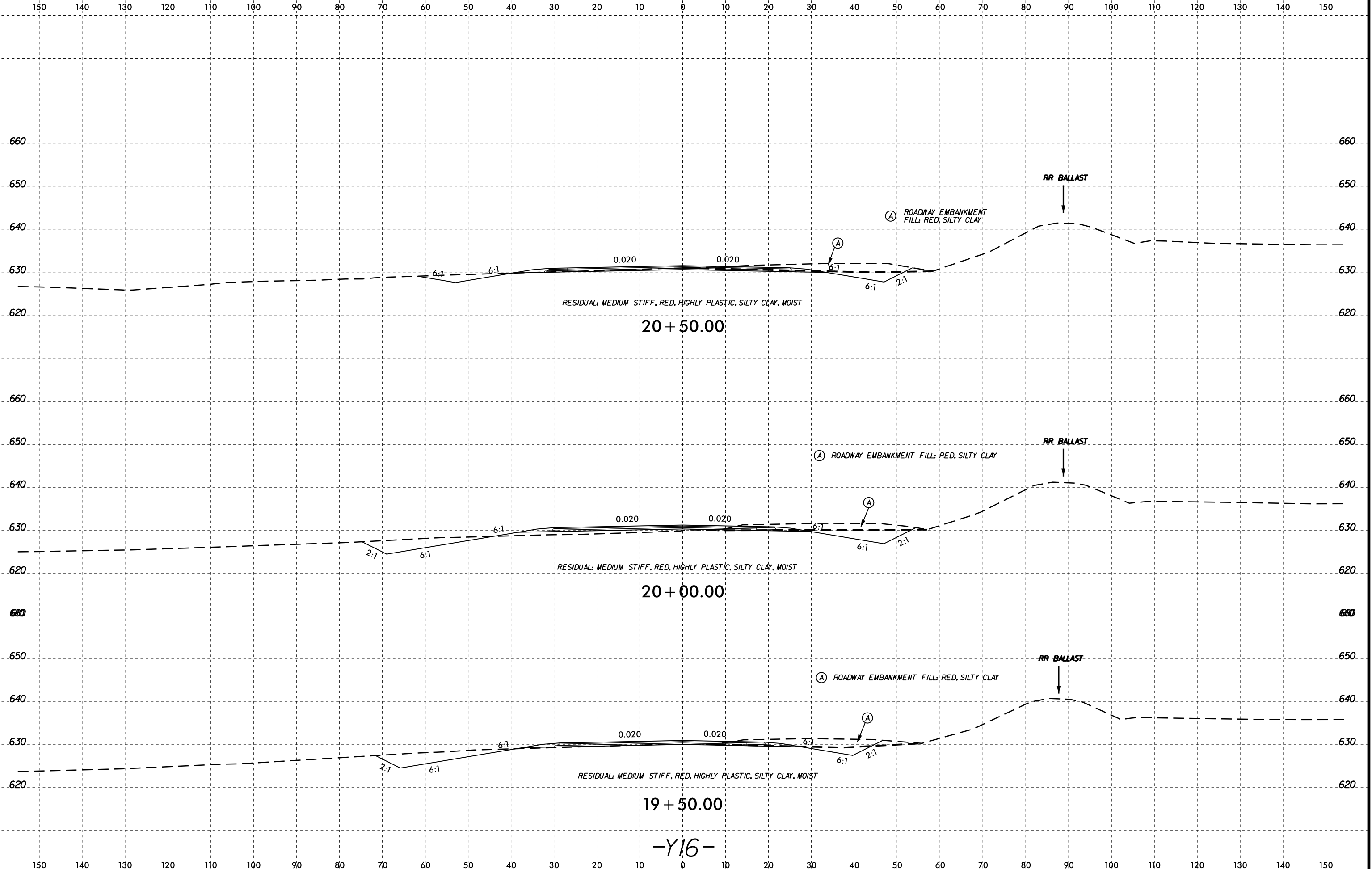
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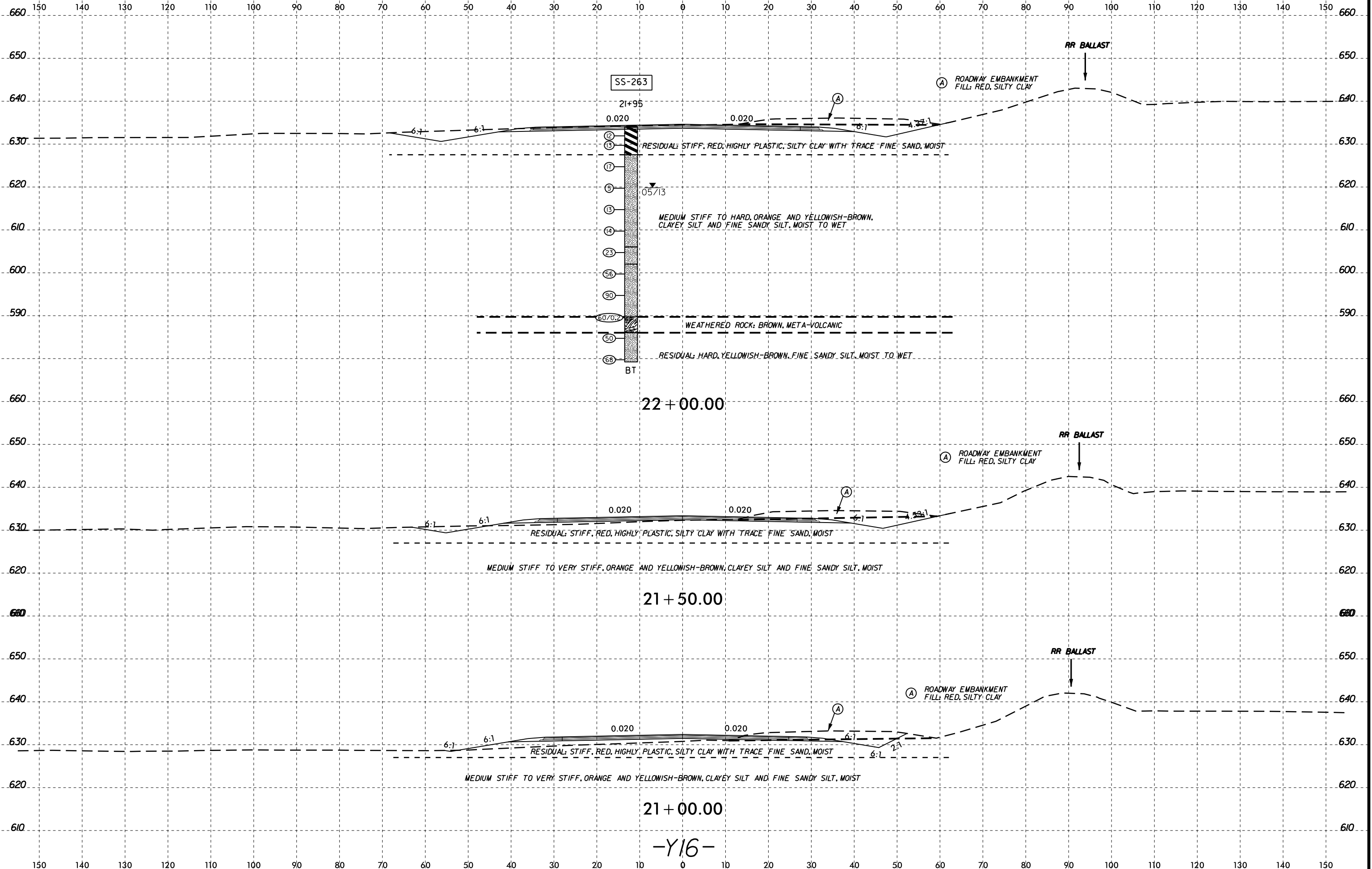
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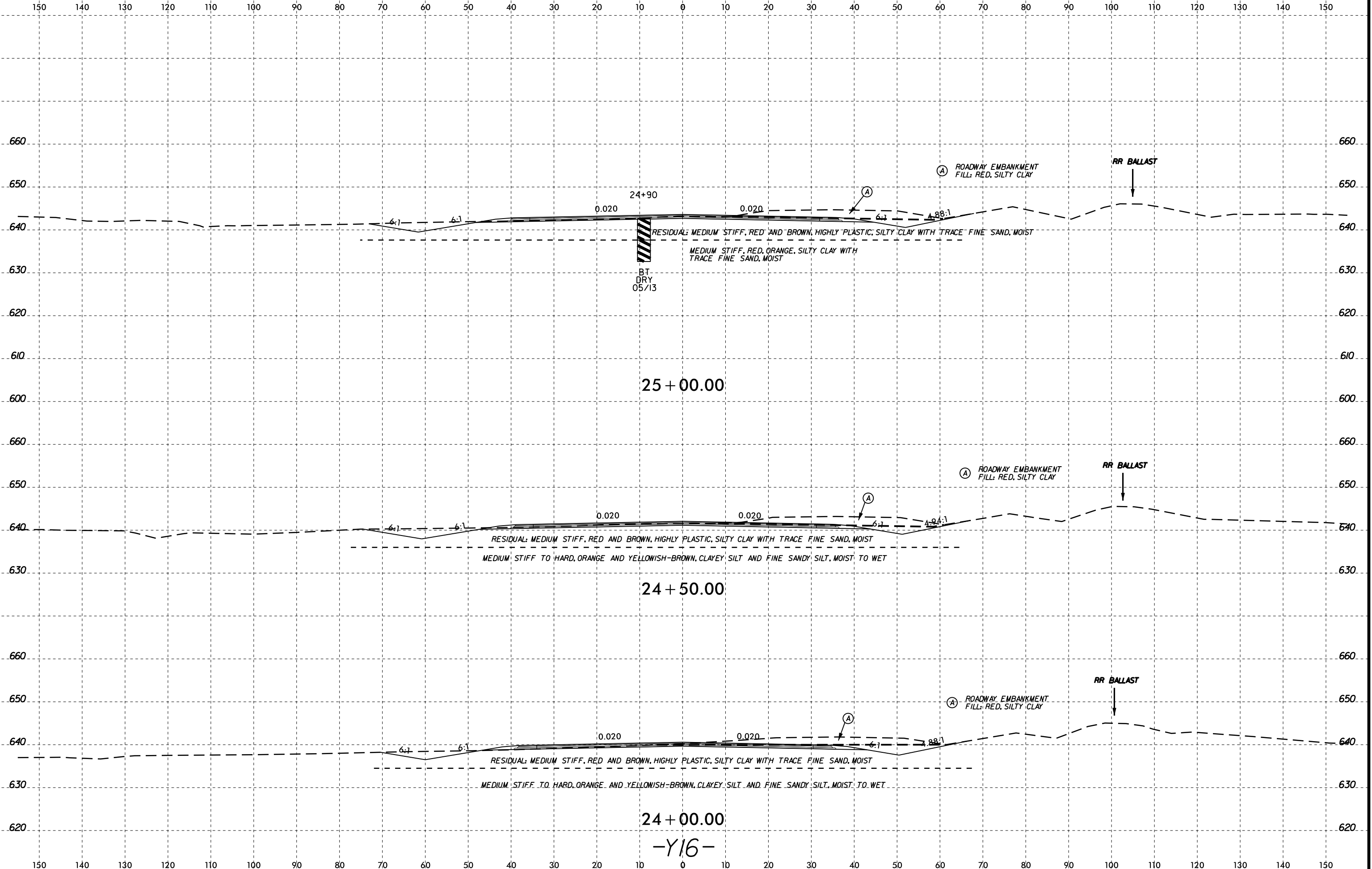


8/23/99



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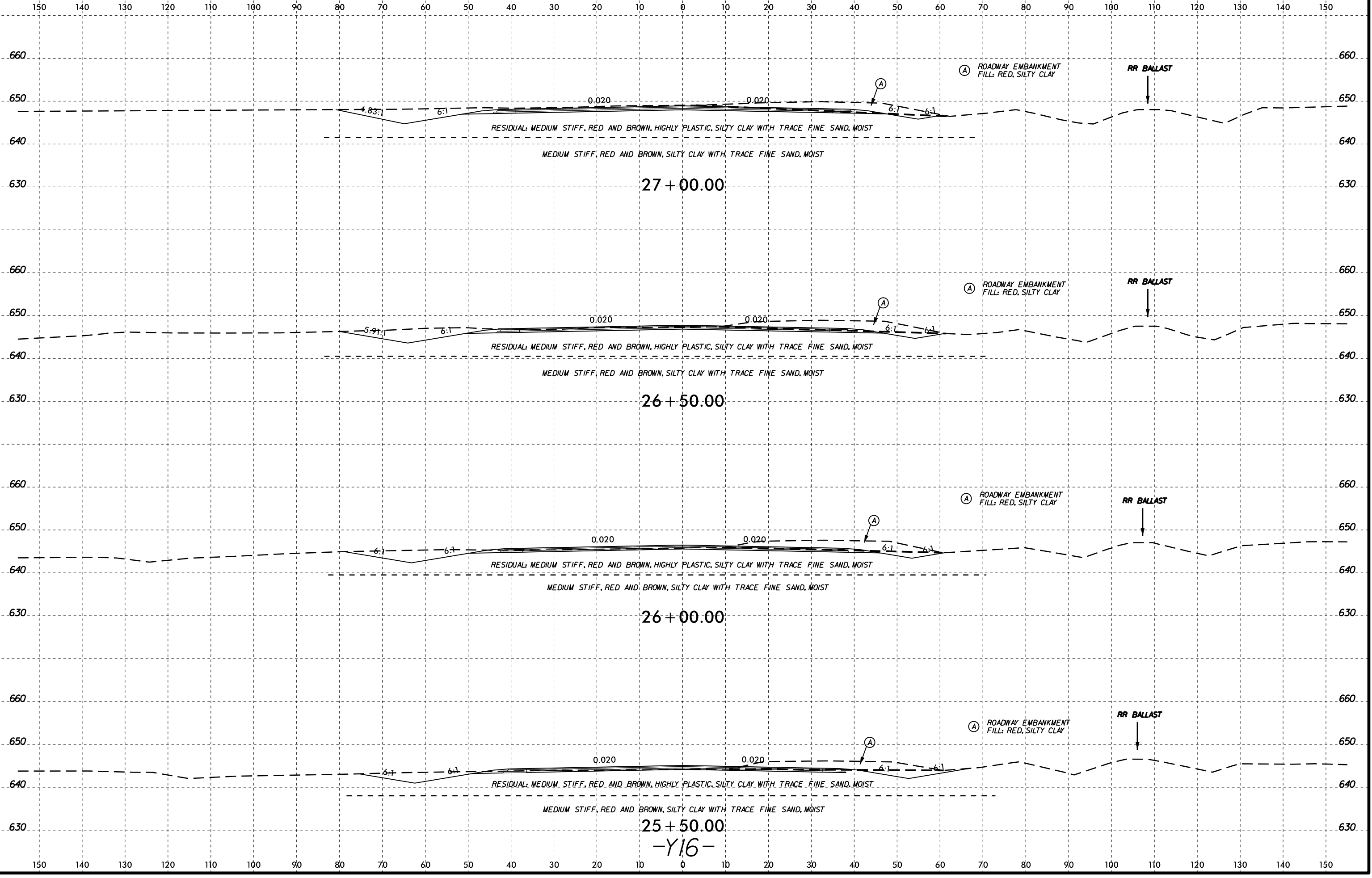
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8/23/99

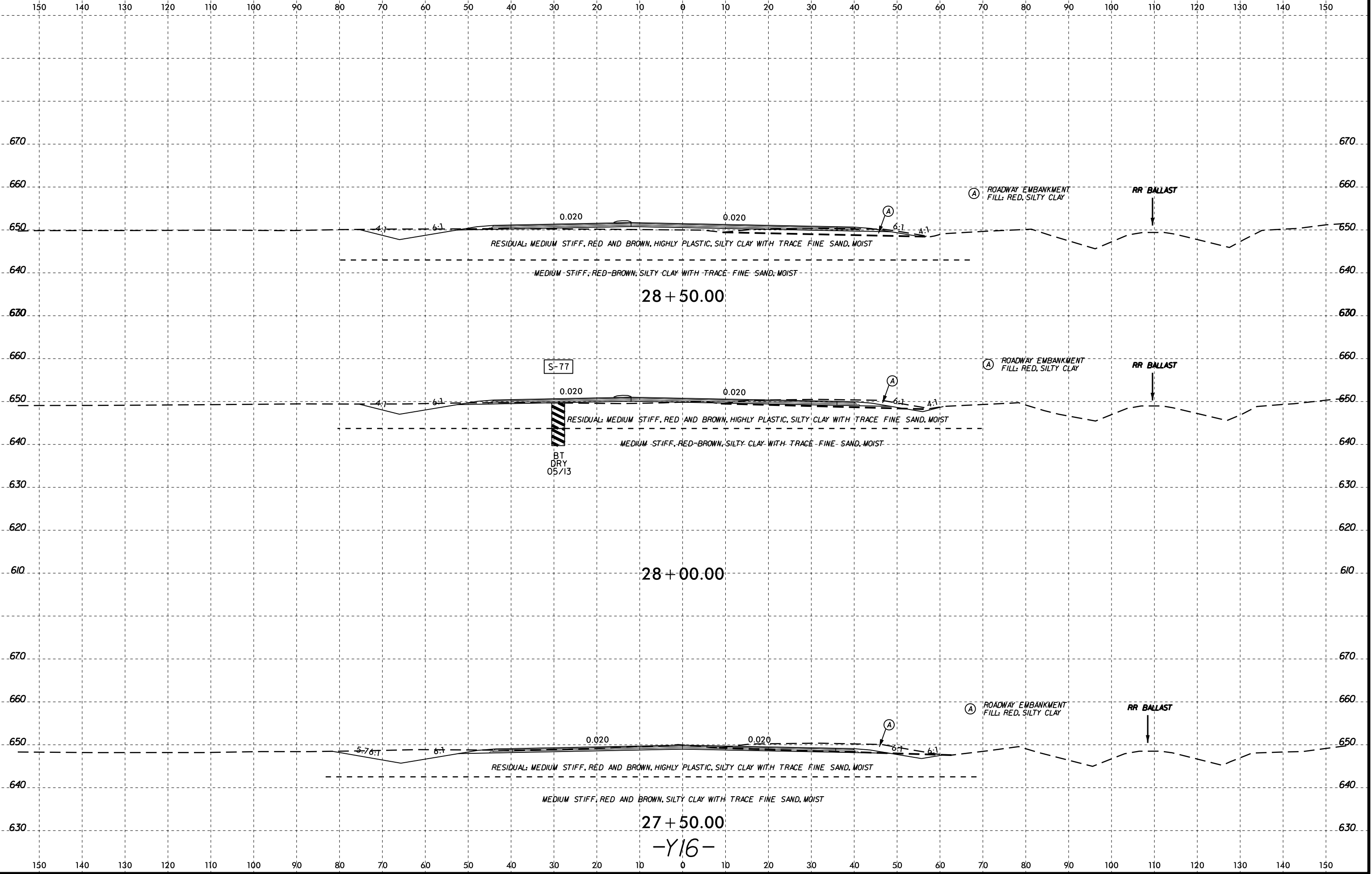


PROJ. REFERENCE NO.	SHEET NO.
U-3109A	217



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28 + 50.00

28 + 00.00

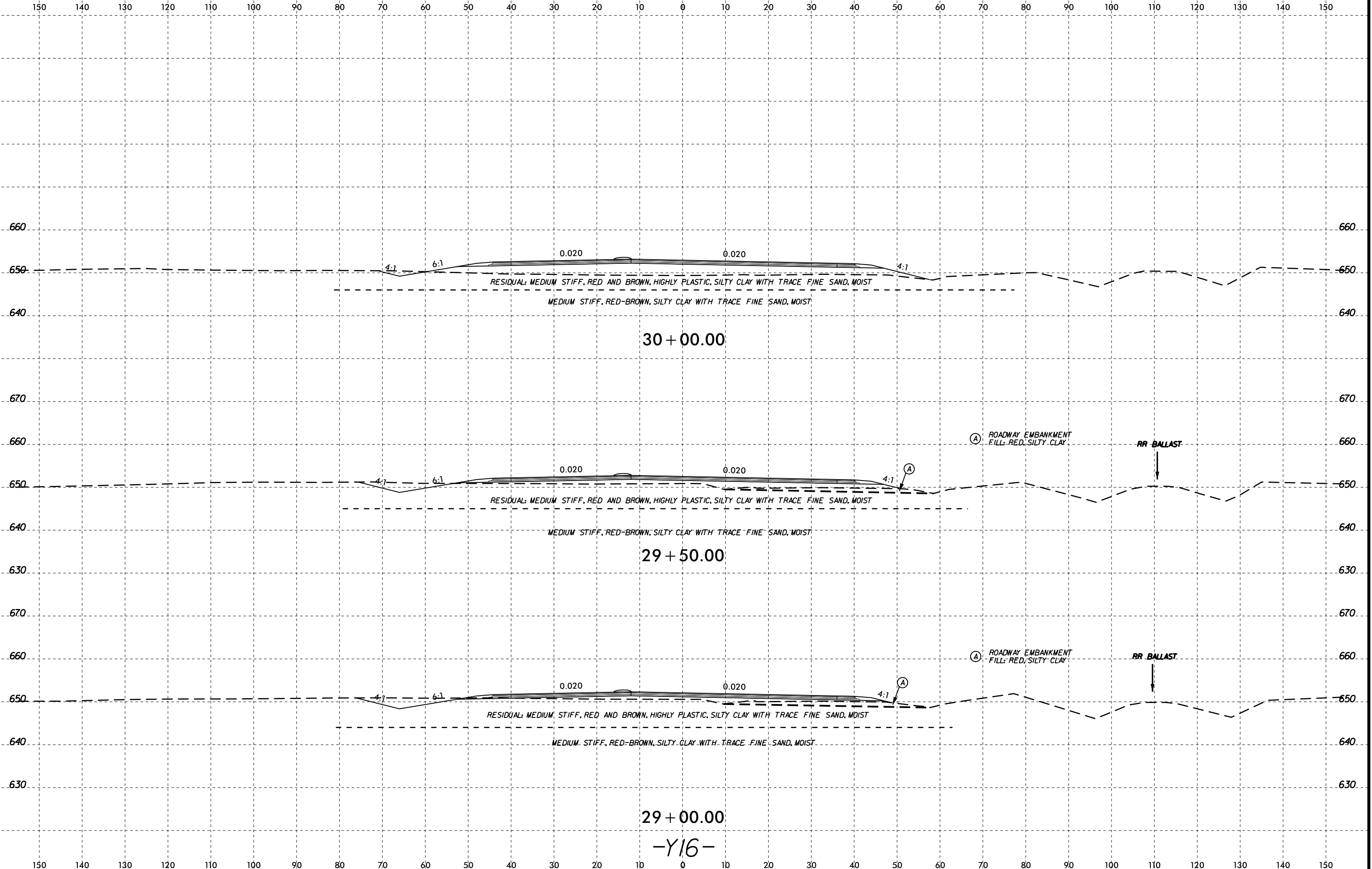
27 + 50.00

-Y16-

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	219



30 + 00.00

29 + 50.00

29 + 00.00

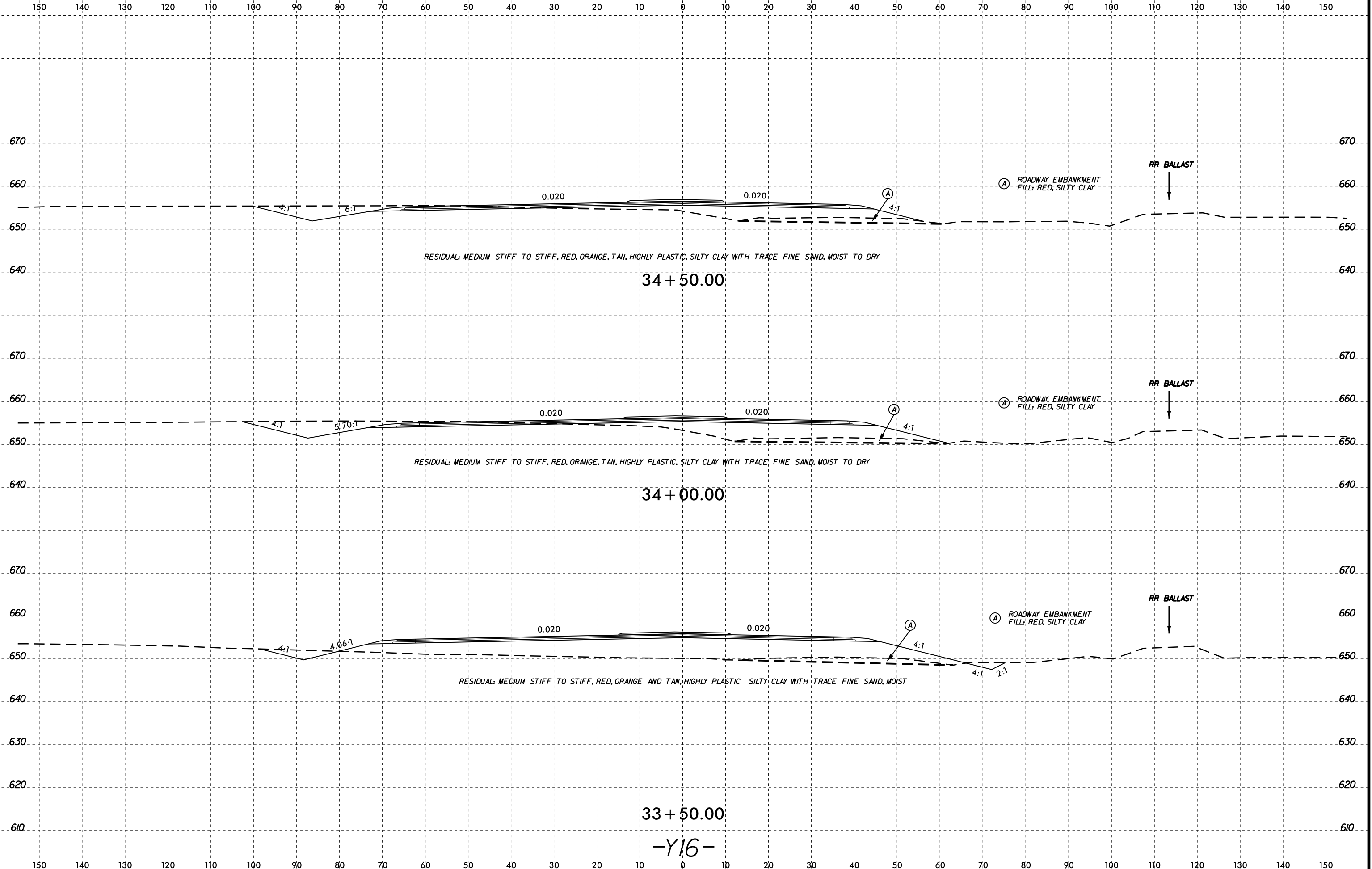
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8/23/99



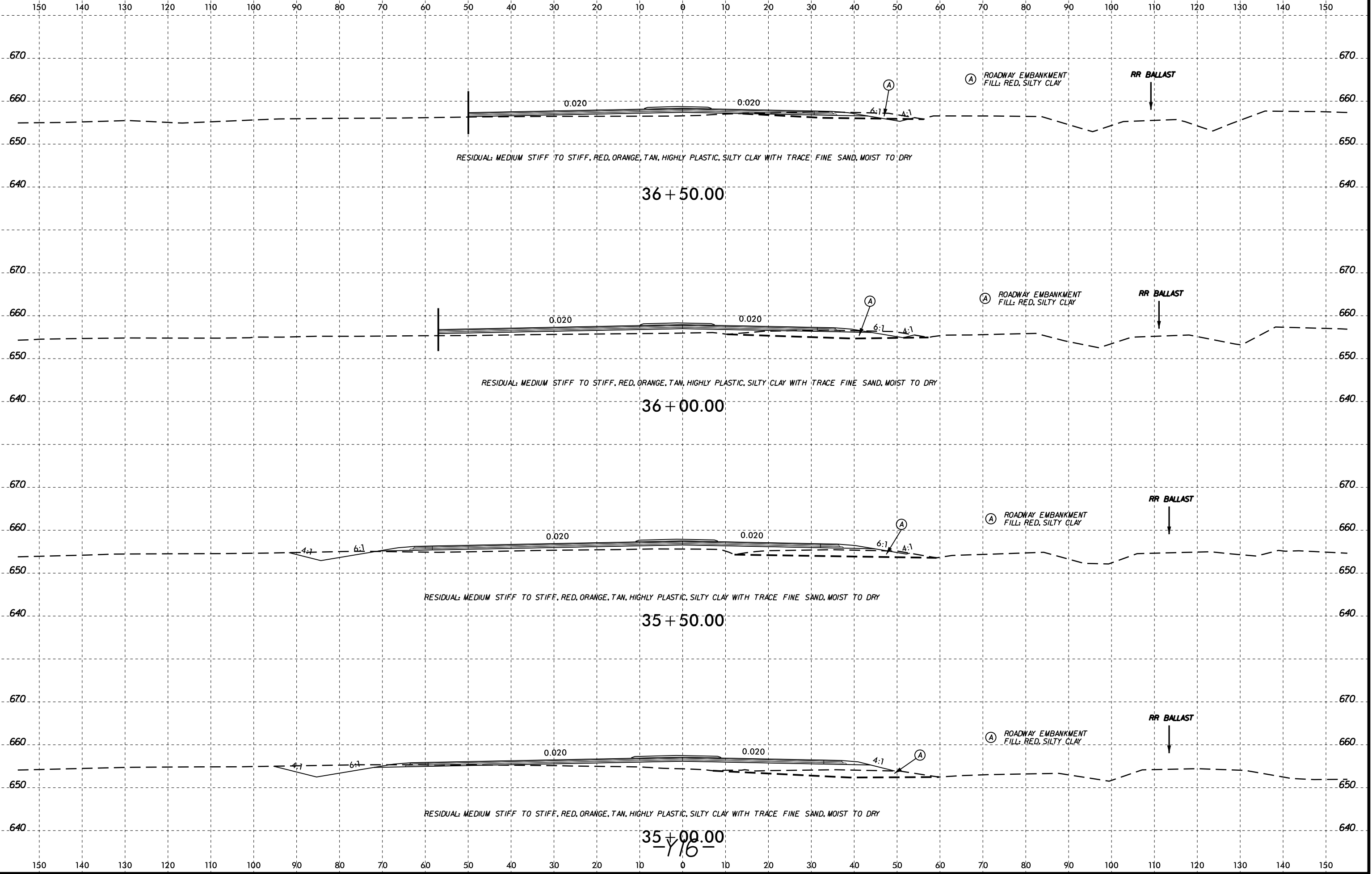
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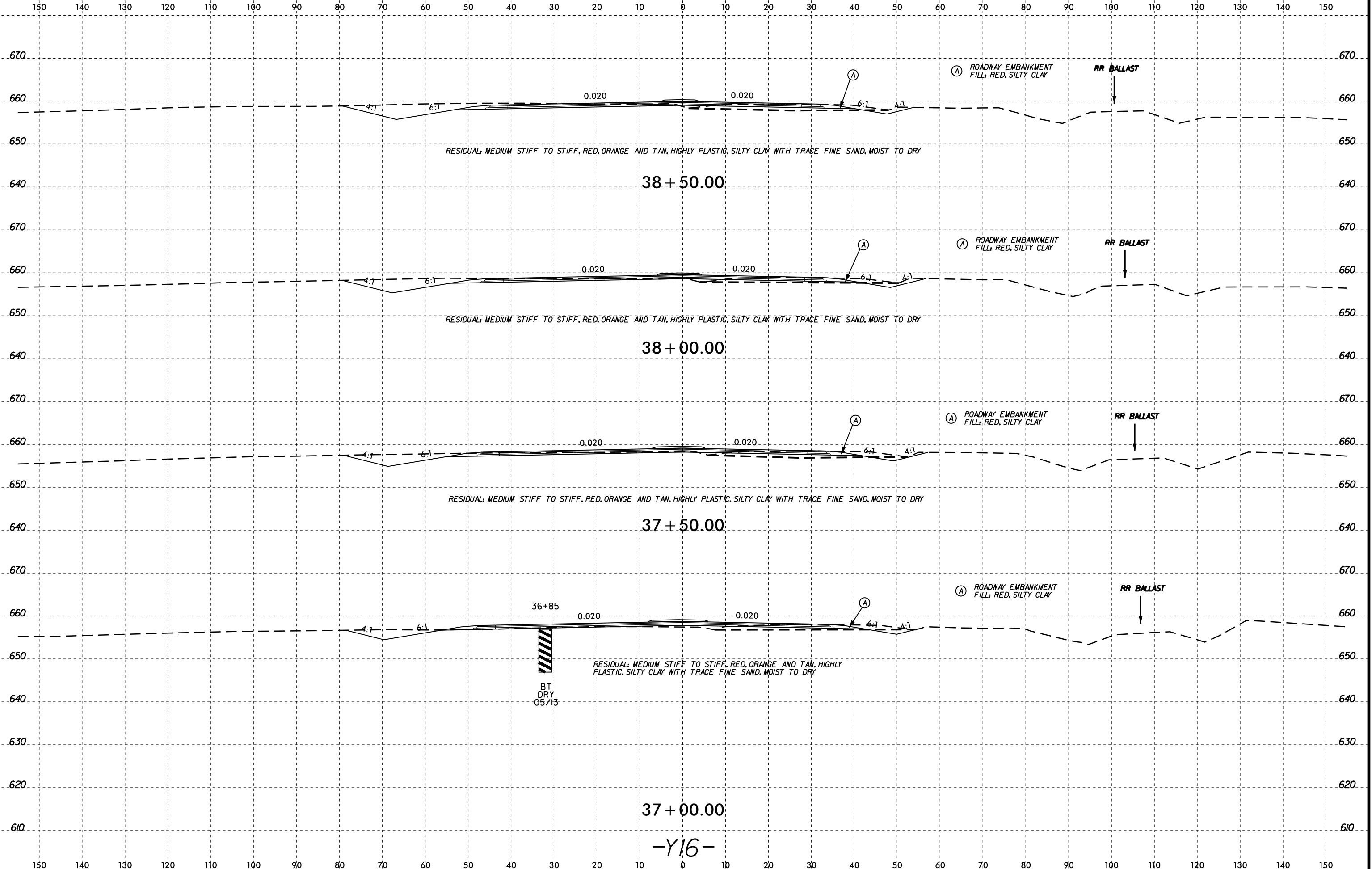
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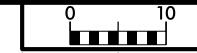
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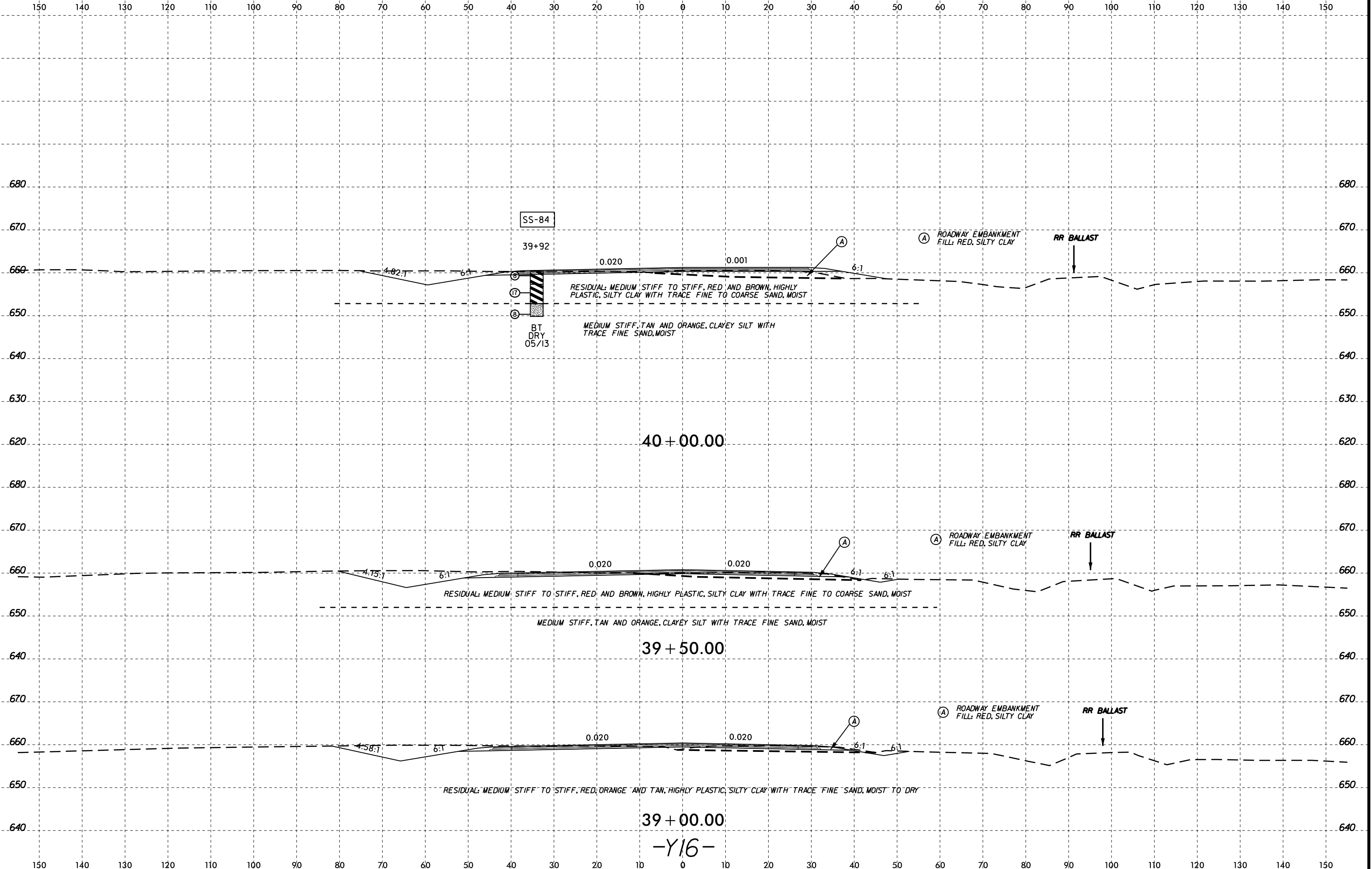
37 + 00.00

-Y16-

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	223



SS-84

39+92

BT
DRY
05/13

RESIDUAL: MEDIUM STIFF TO STIFF, RED AND BROWN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE TO COARSE SAND, MOIST

MEDIUM STIFF, TAN AND ORANGE, CLAYEY SILT WITH TRACE FINE SAND, MOIST

ROADWAY EMBANKMENT FILL: RED, SILTY CLAY

RR BALLAST

40 + 00.00

RESIDUAL: MEDIUM STIFF TO STIFF, RED AND BROWN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE TO COARSE SAND, MOIST

MEDIUM STIFF, TAN AND ORANGE, CLAYEY SILT WITH TRACE FINE SAND, MOIST

ROADWAY EMBANKMENT FILL: RED, SILTY CLAY

RR BALLAST

39 + 50.00

RESIDUAL: MEDIUM STIFF TO STIFF, RED, ORANGE AND TAN, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST TO DRY

ROADWAY EMBANKMENT FILL: RED, SILTY CLAY

RR BALLAST

39 + 00.00

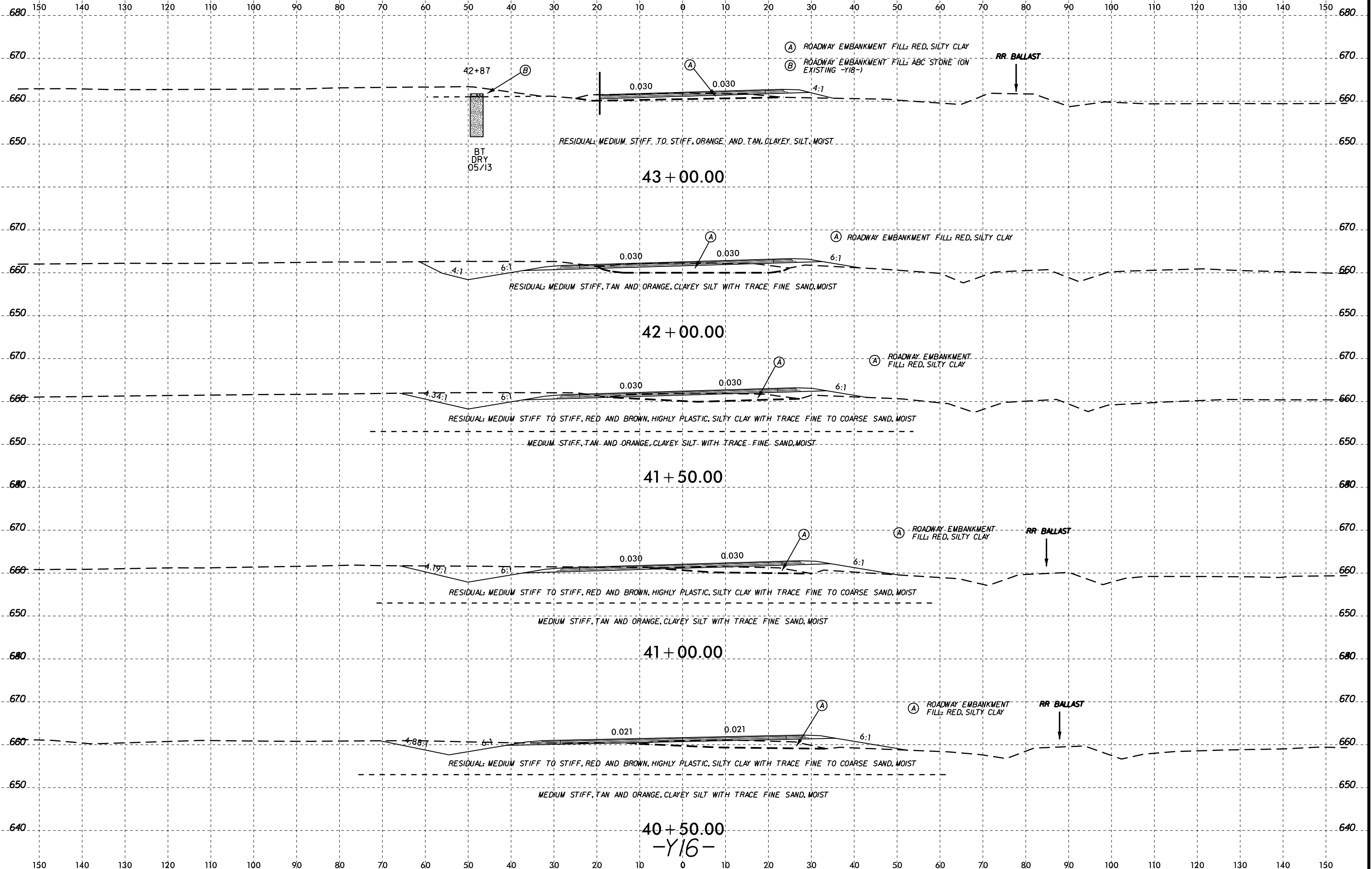
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8/23/99

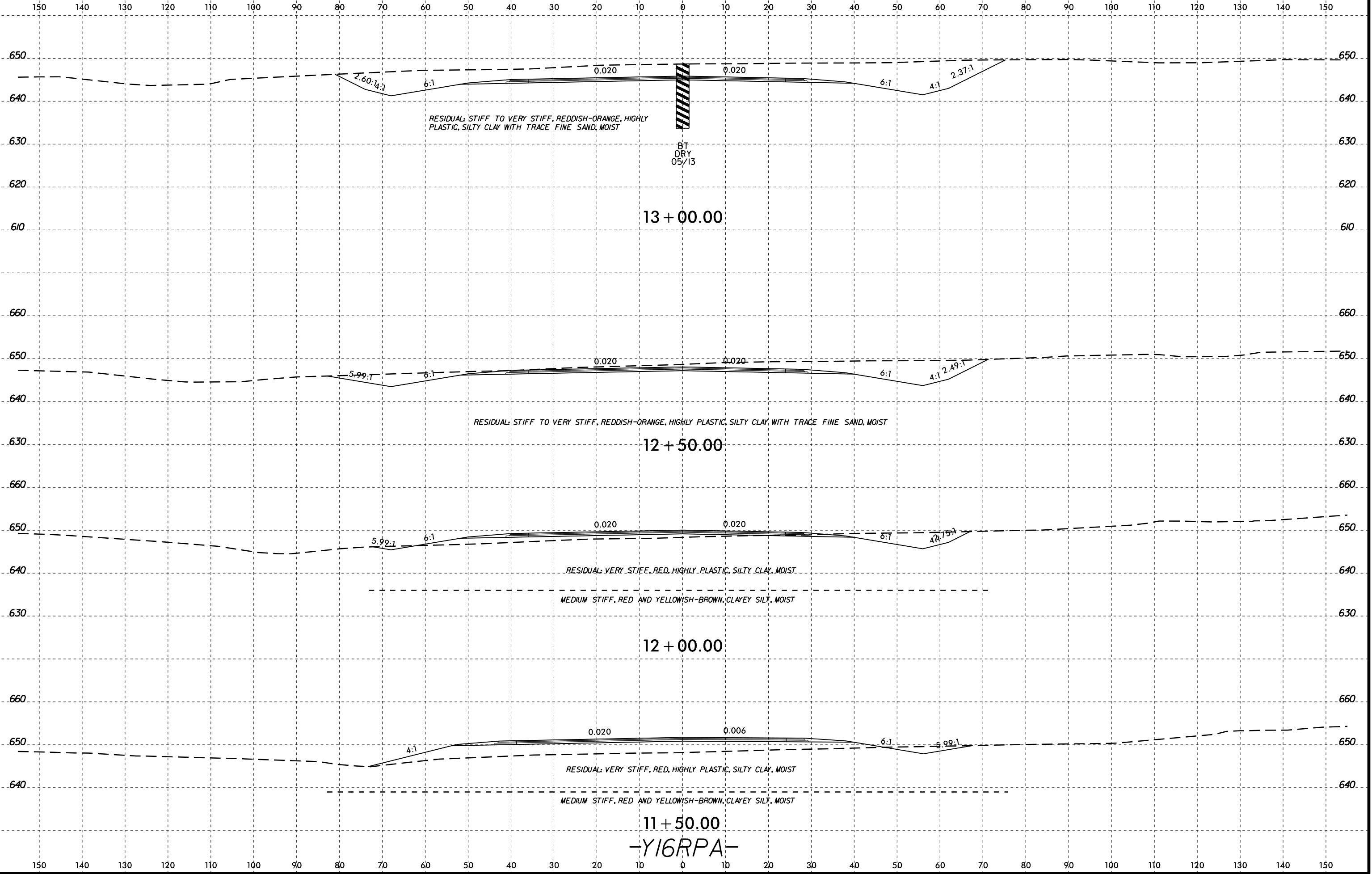


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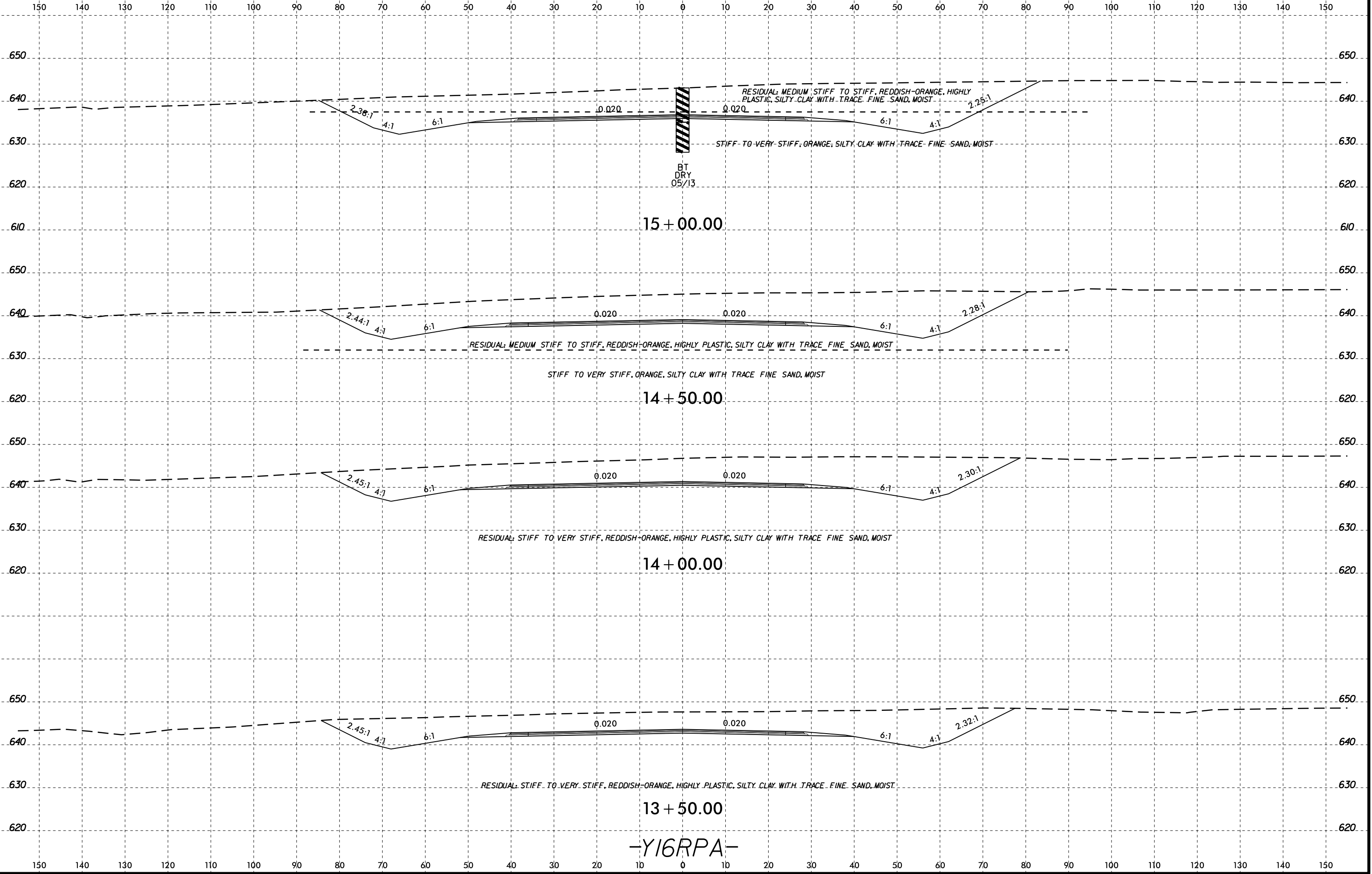


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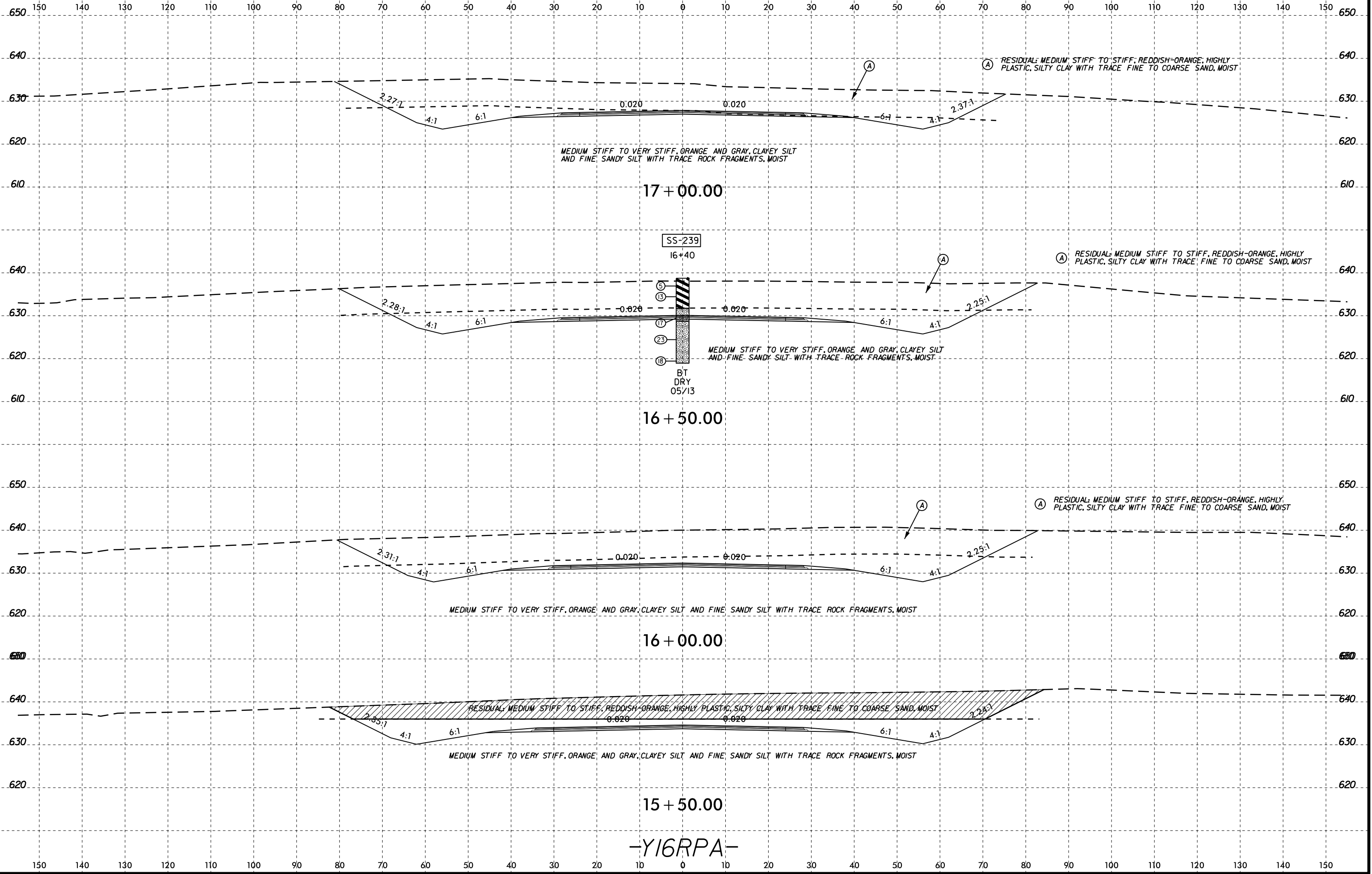
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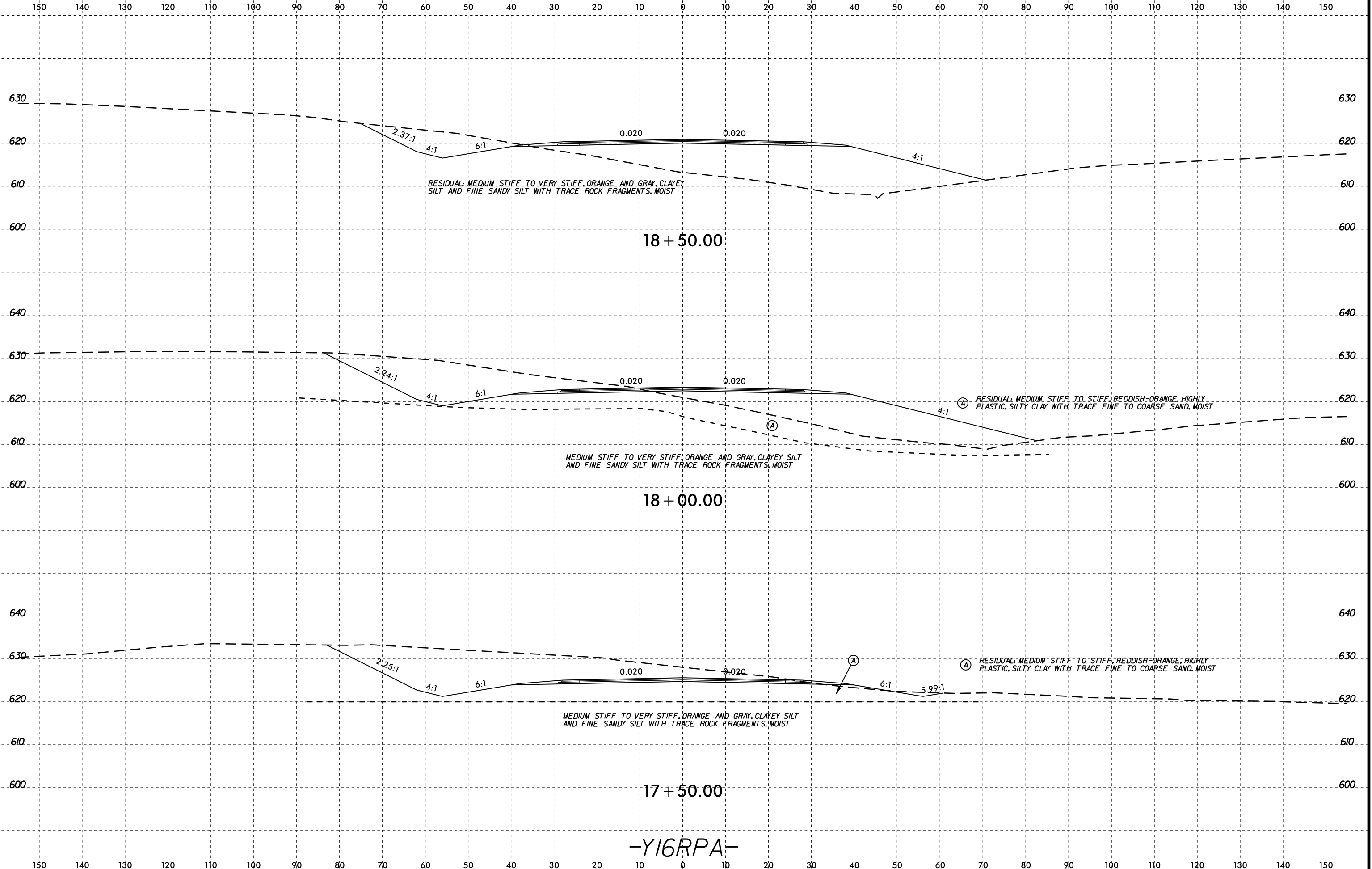


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-Y16RPA-

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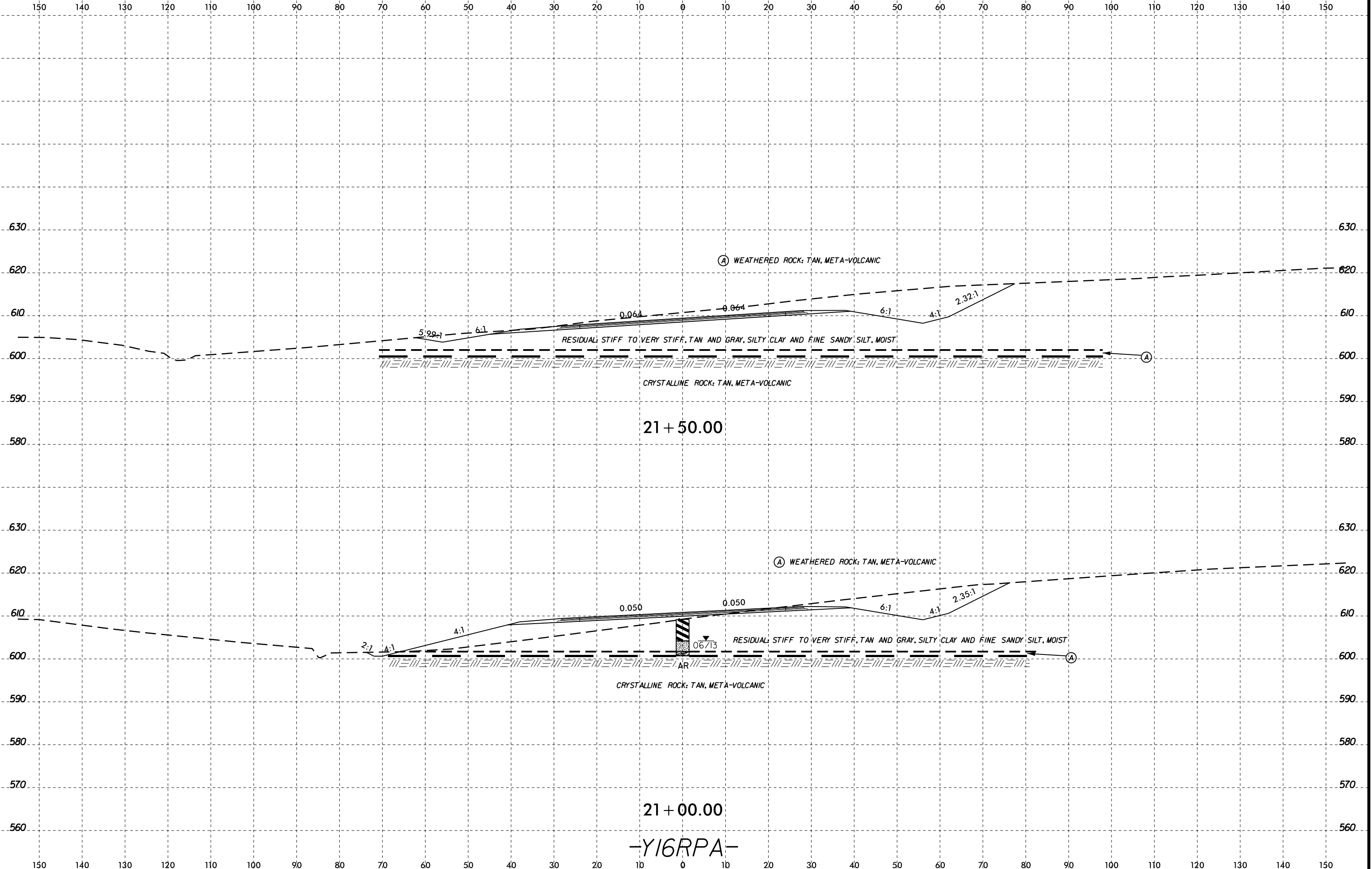


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	229



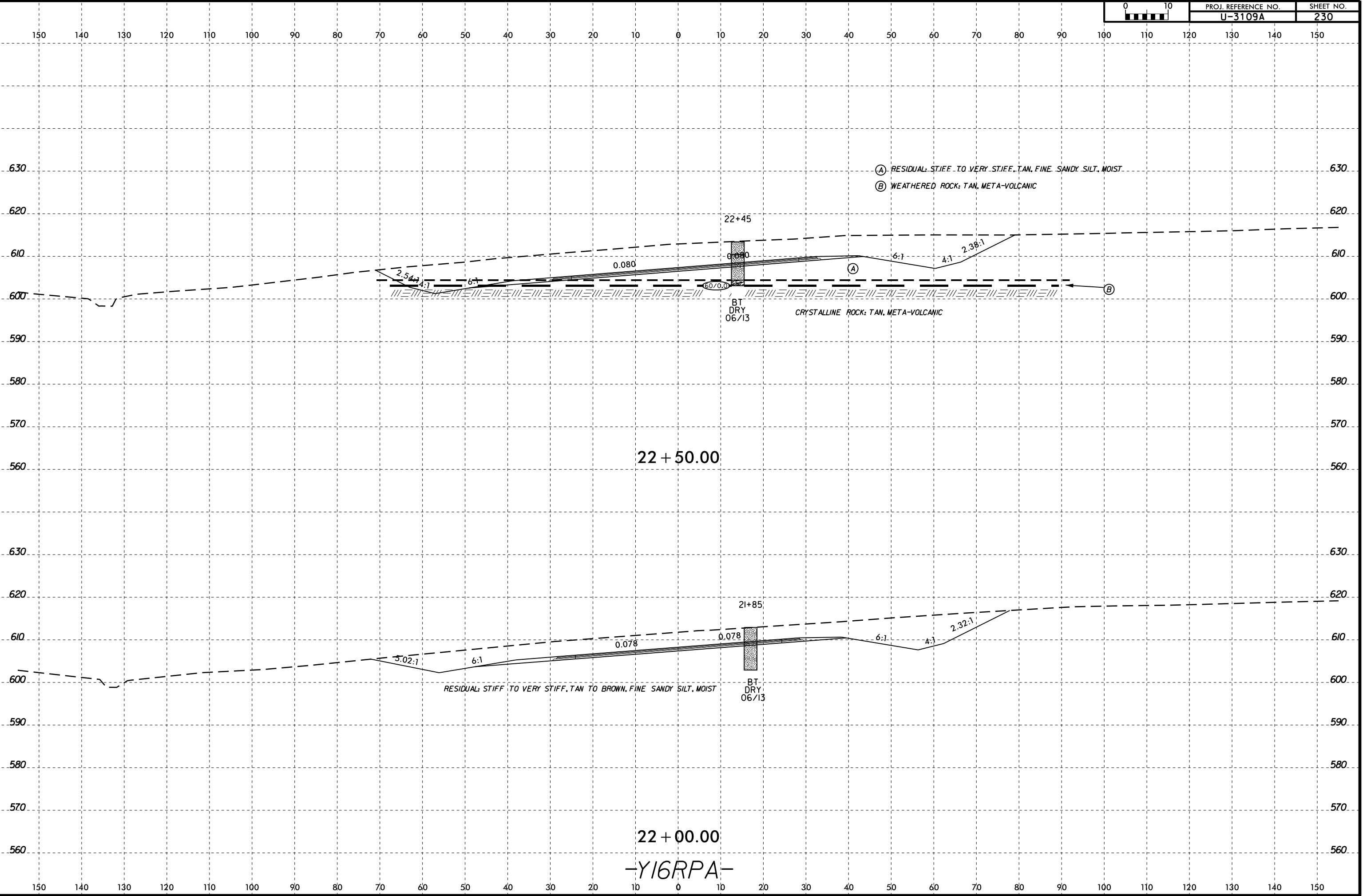
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21 + 00.00

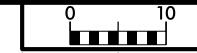
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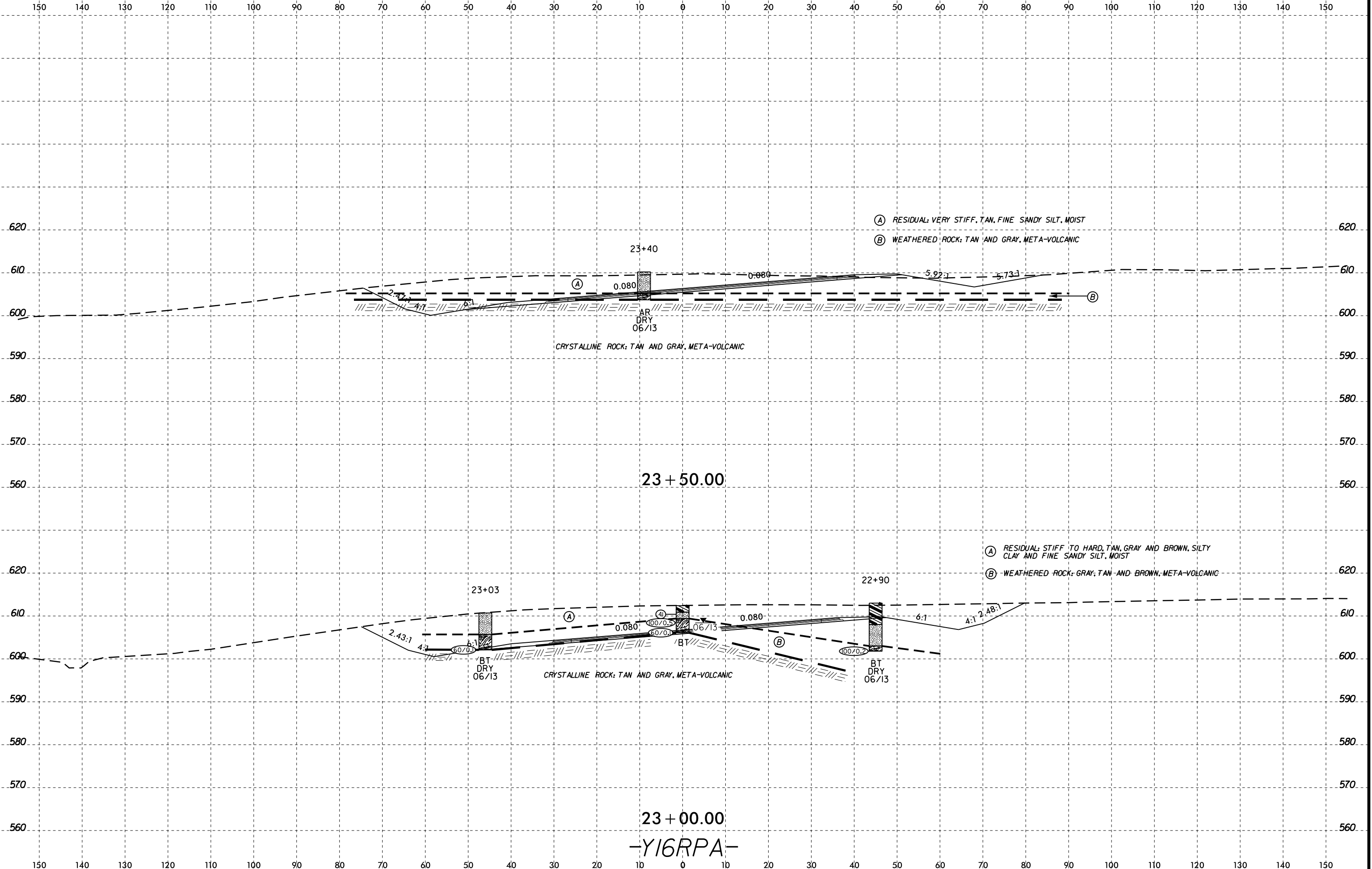
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8/23/99

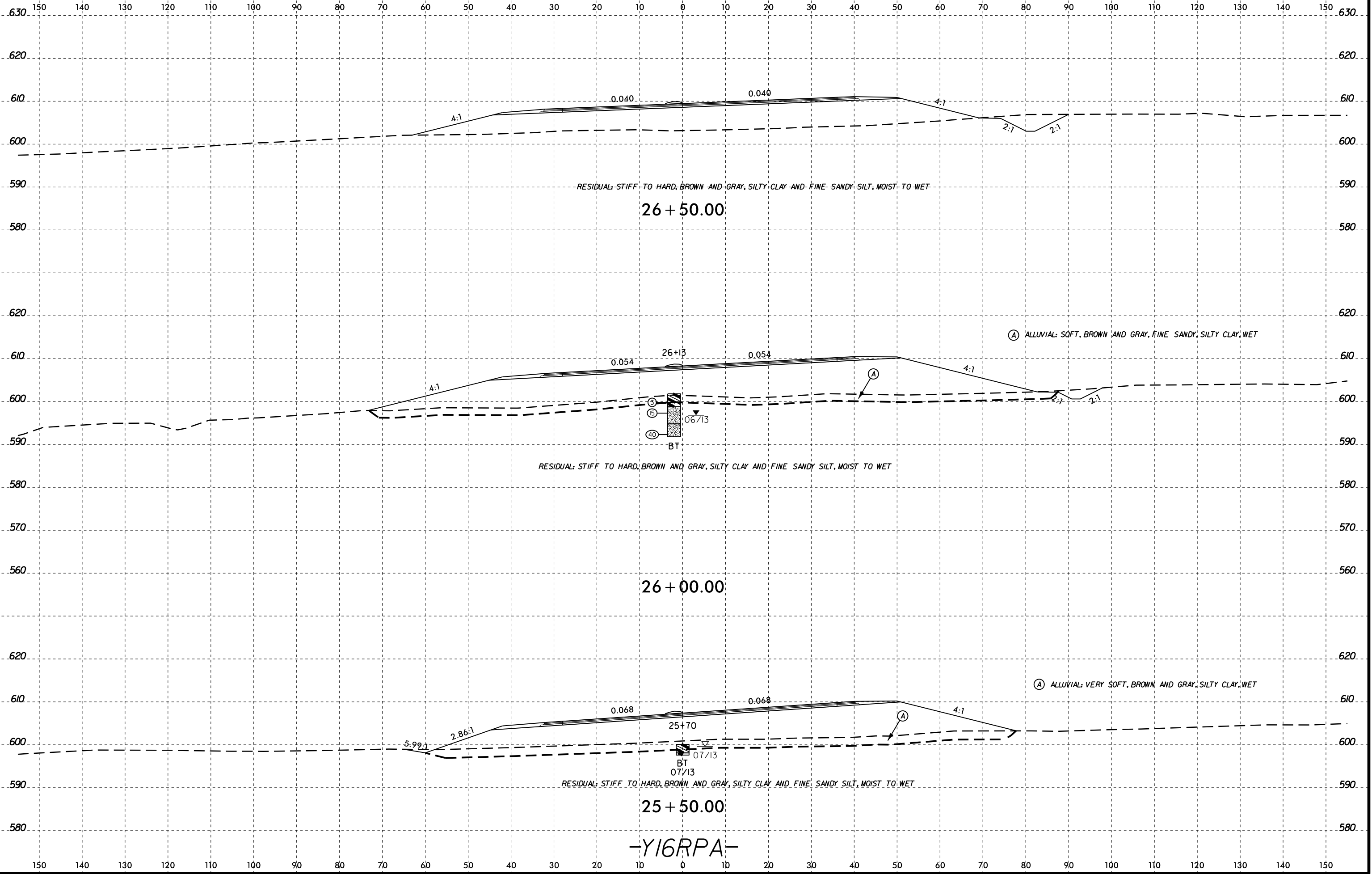


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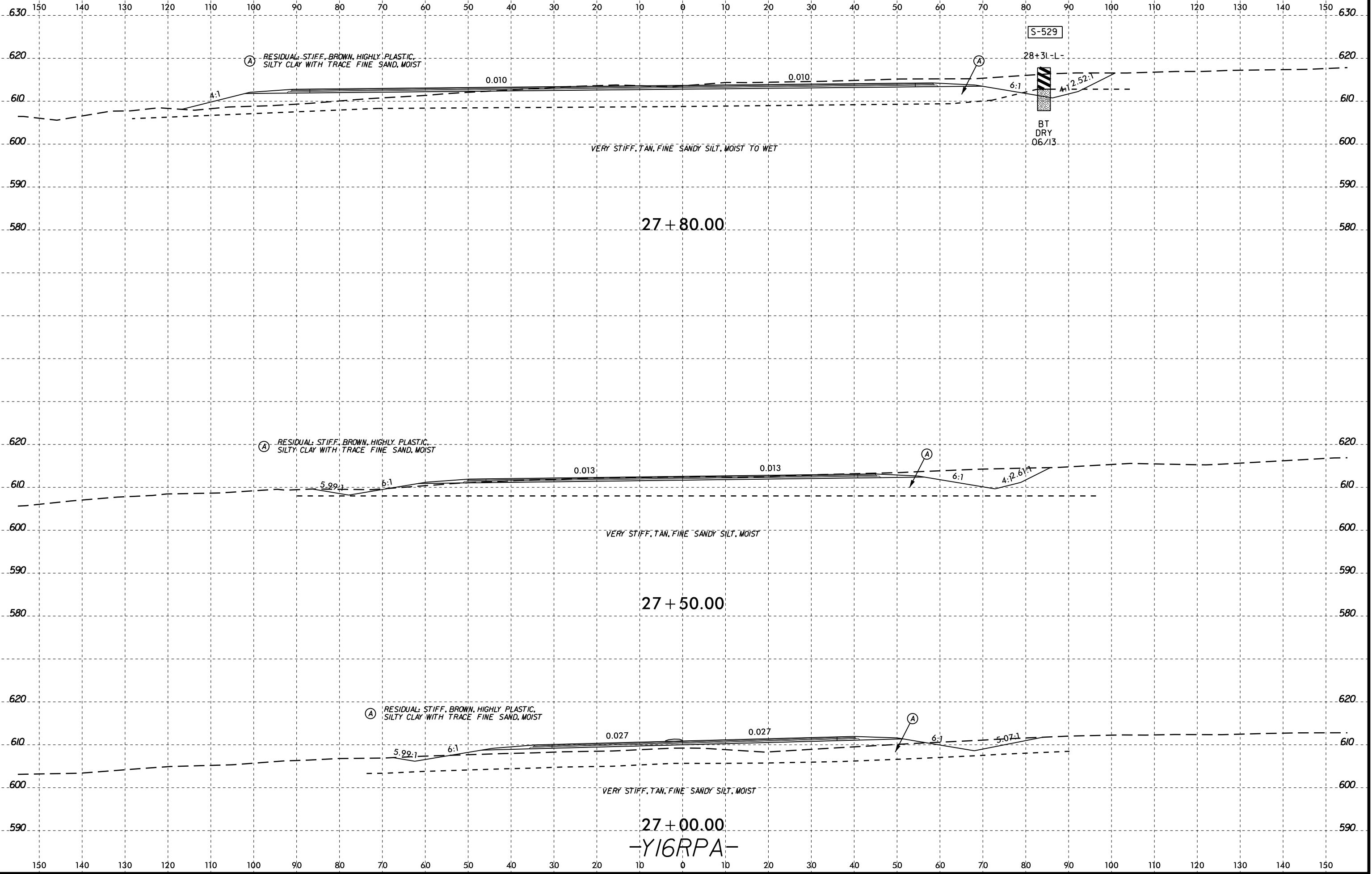


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27 + 80.00

27 + 50.00

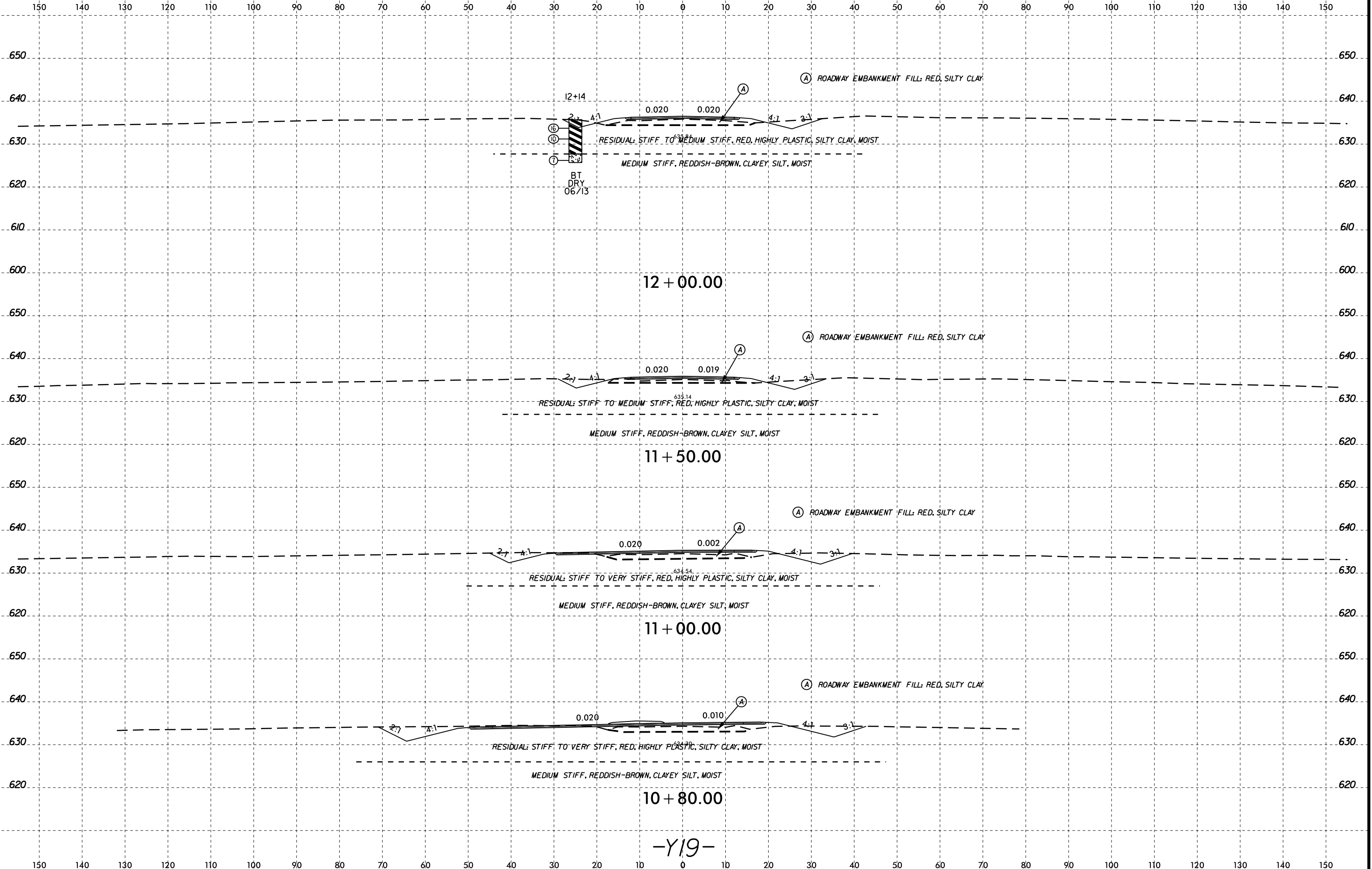
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8/23/99

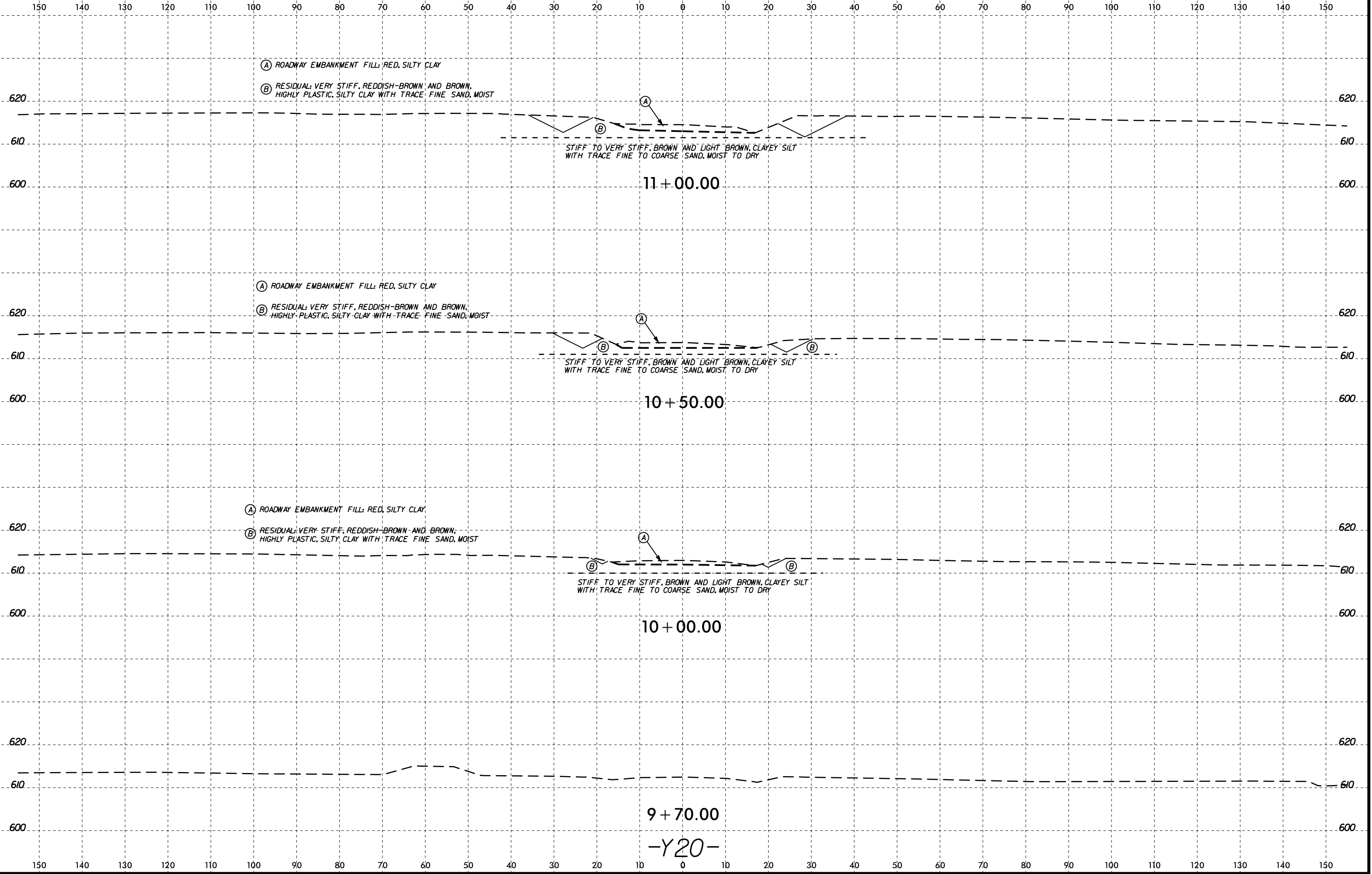


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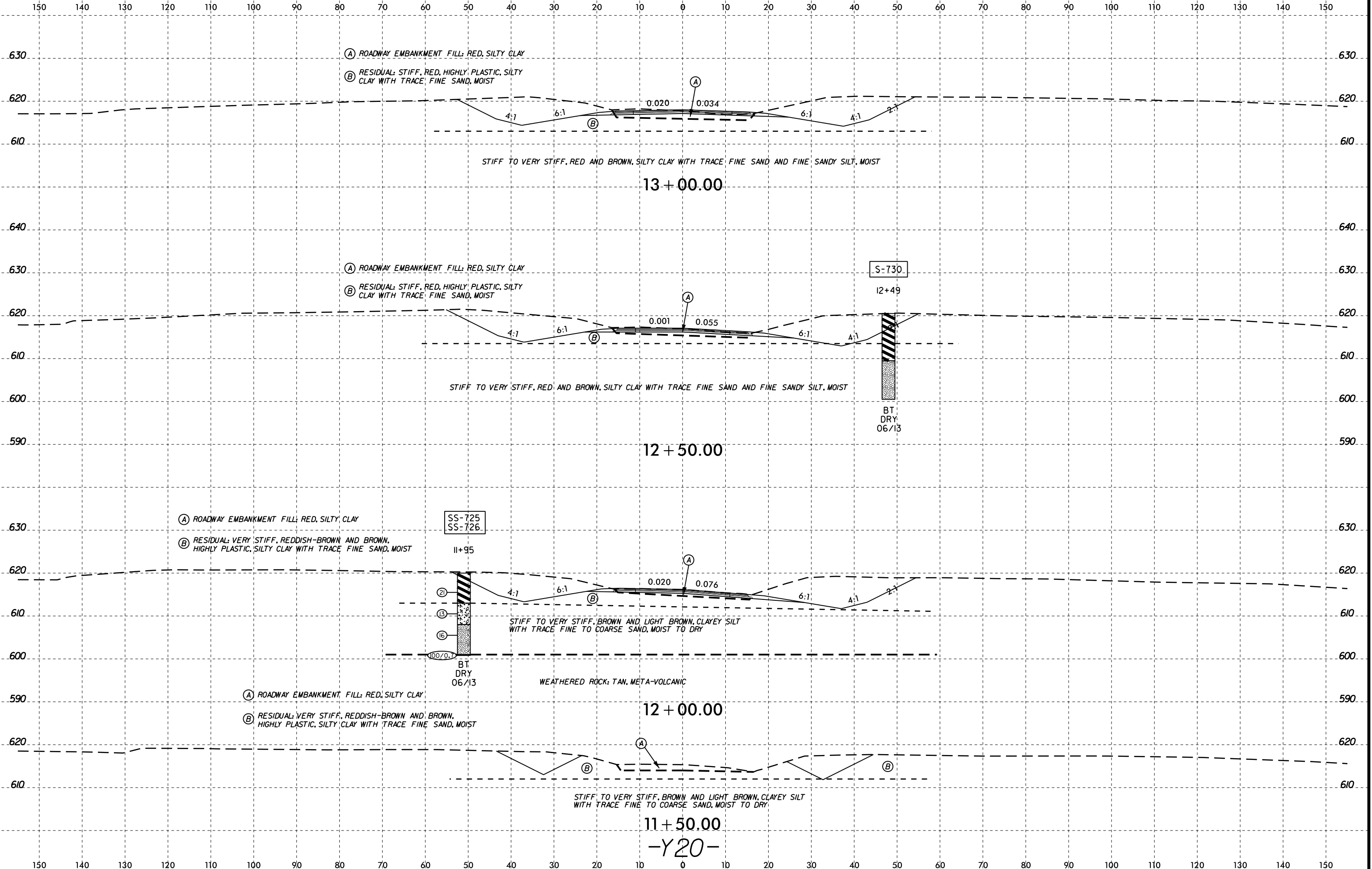


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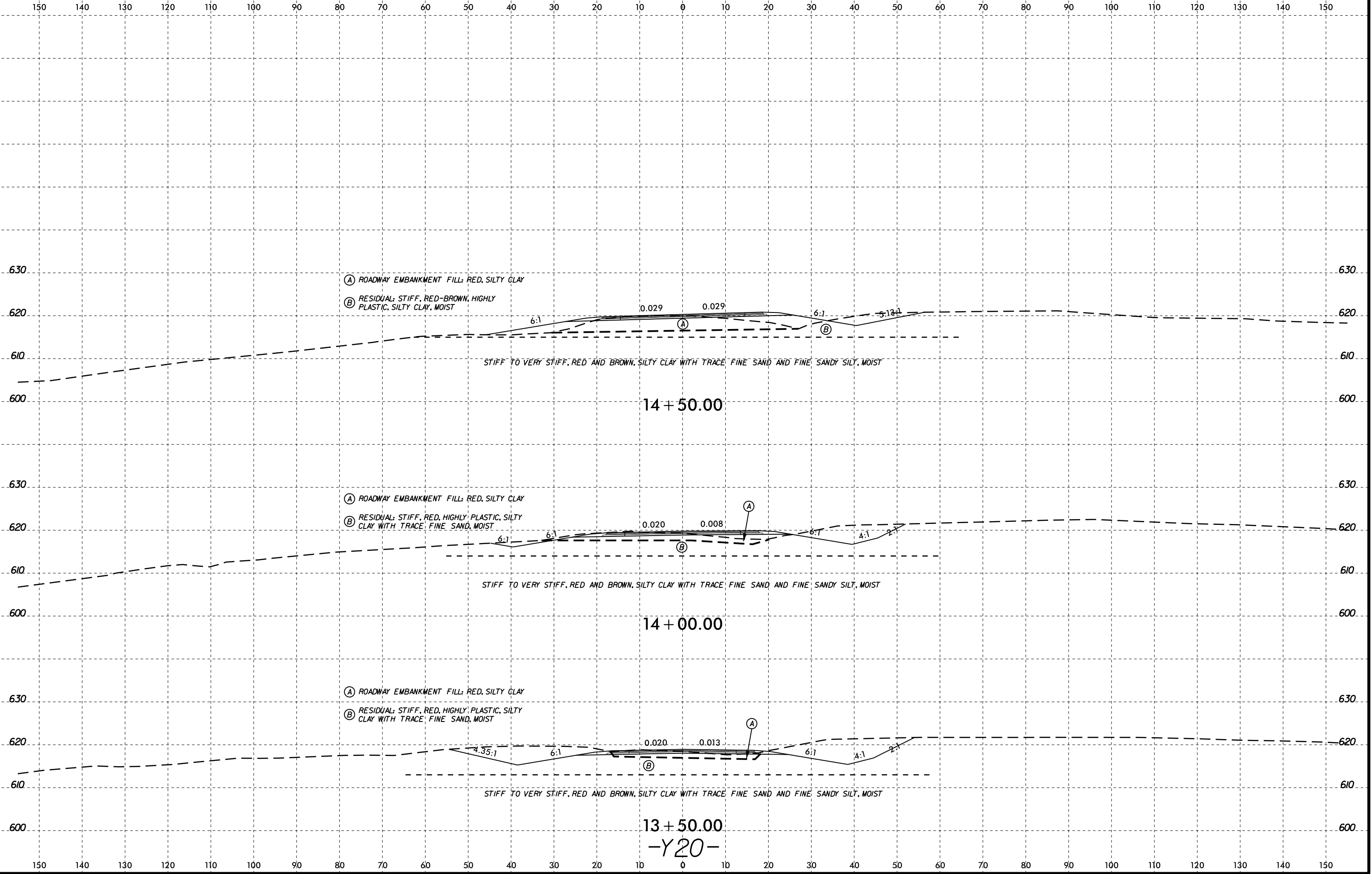


-Y20-

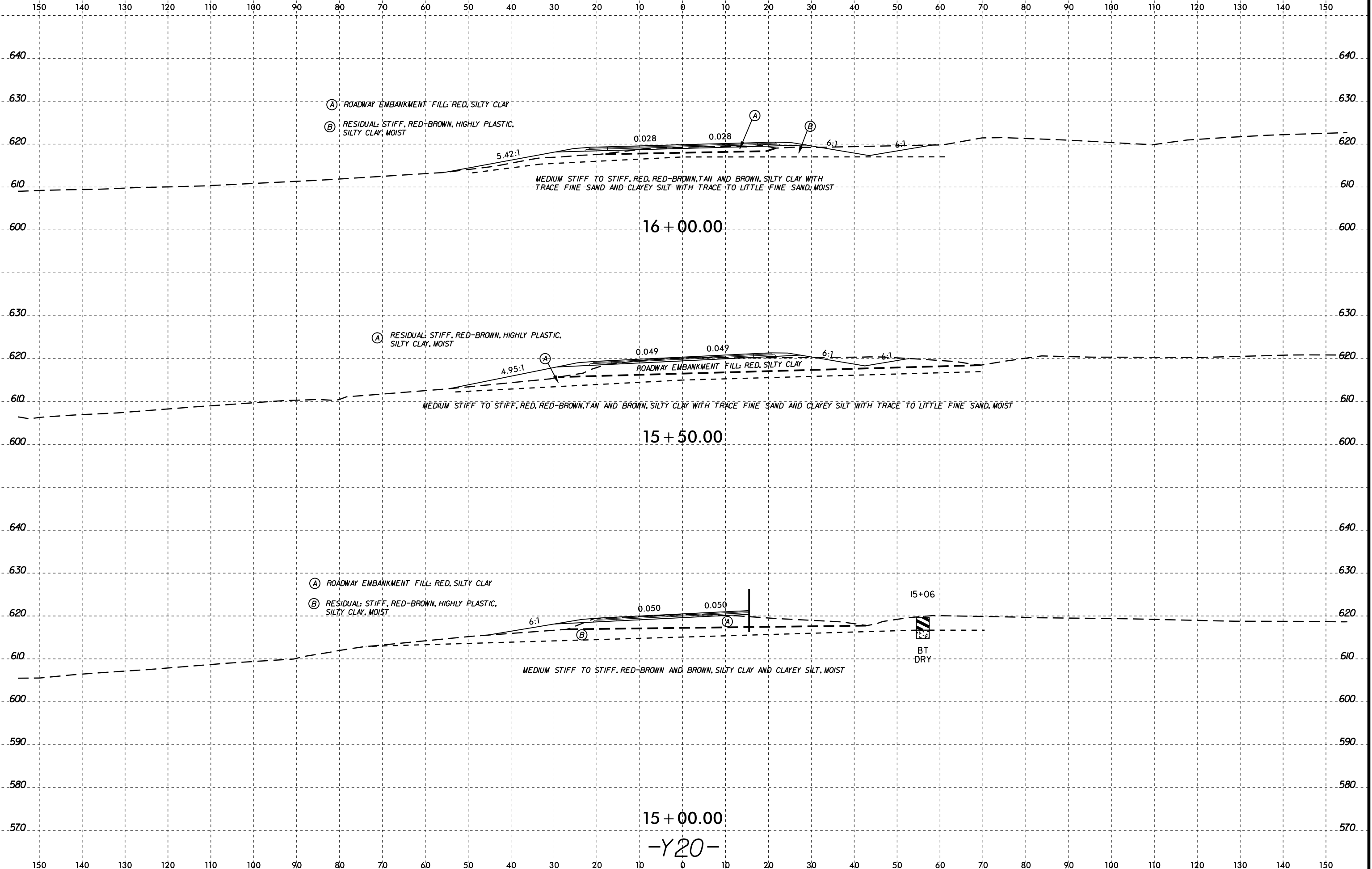


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16 + 00.00

15 + 50.00

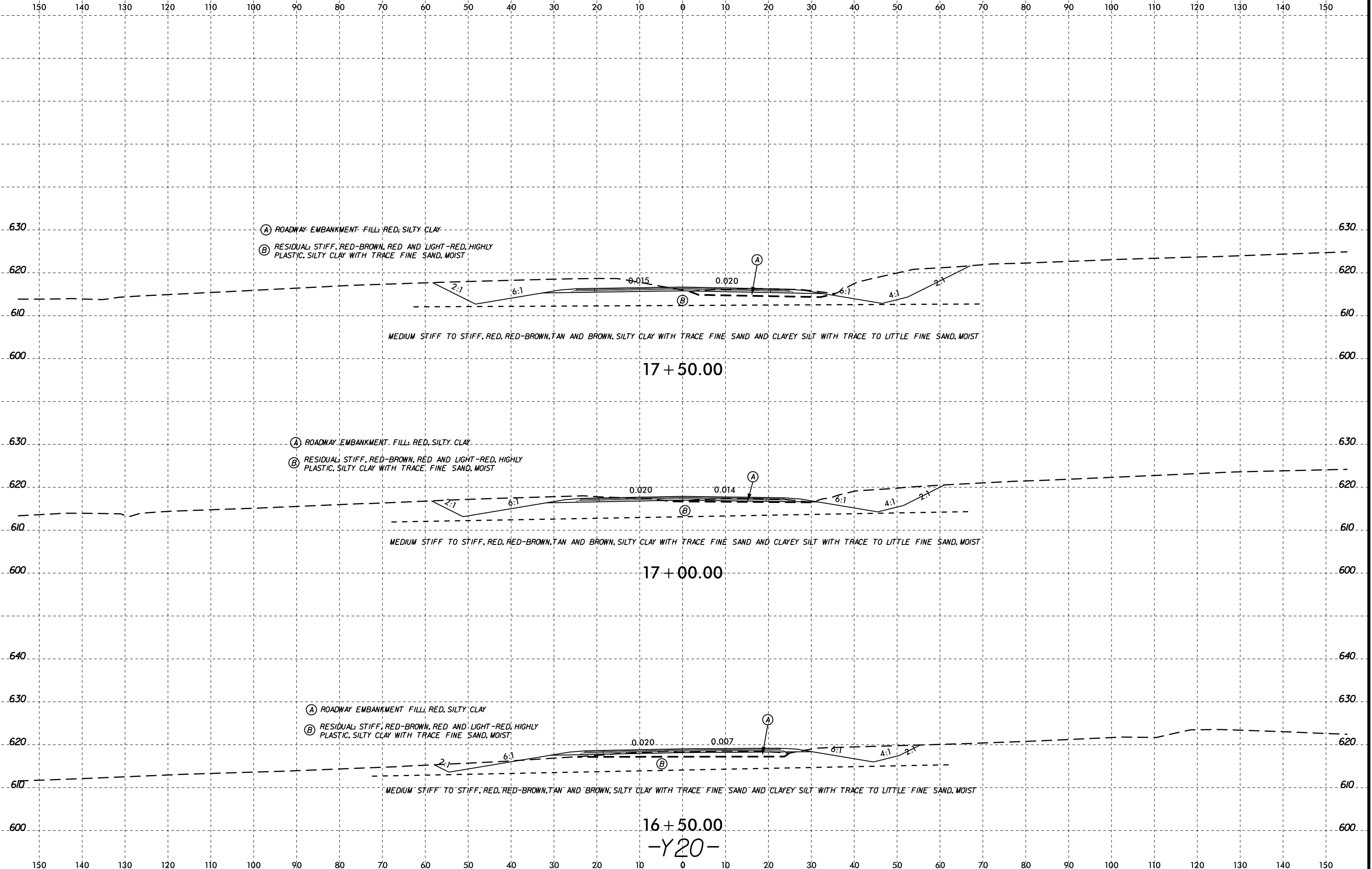
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-Y20-

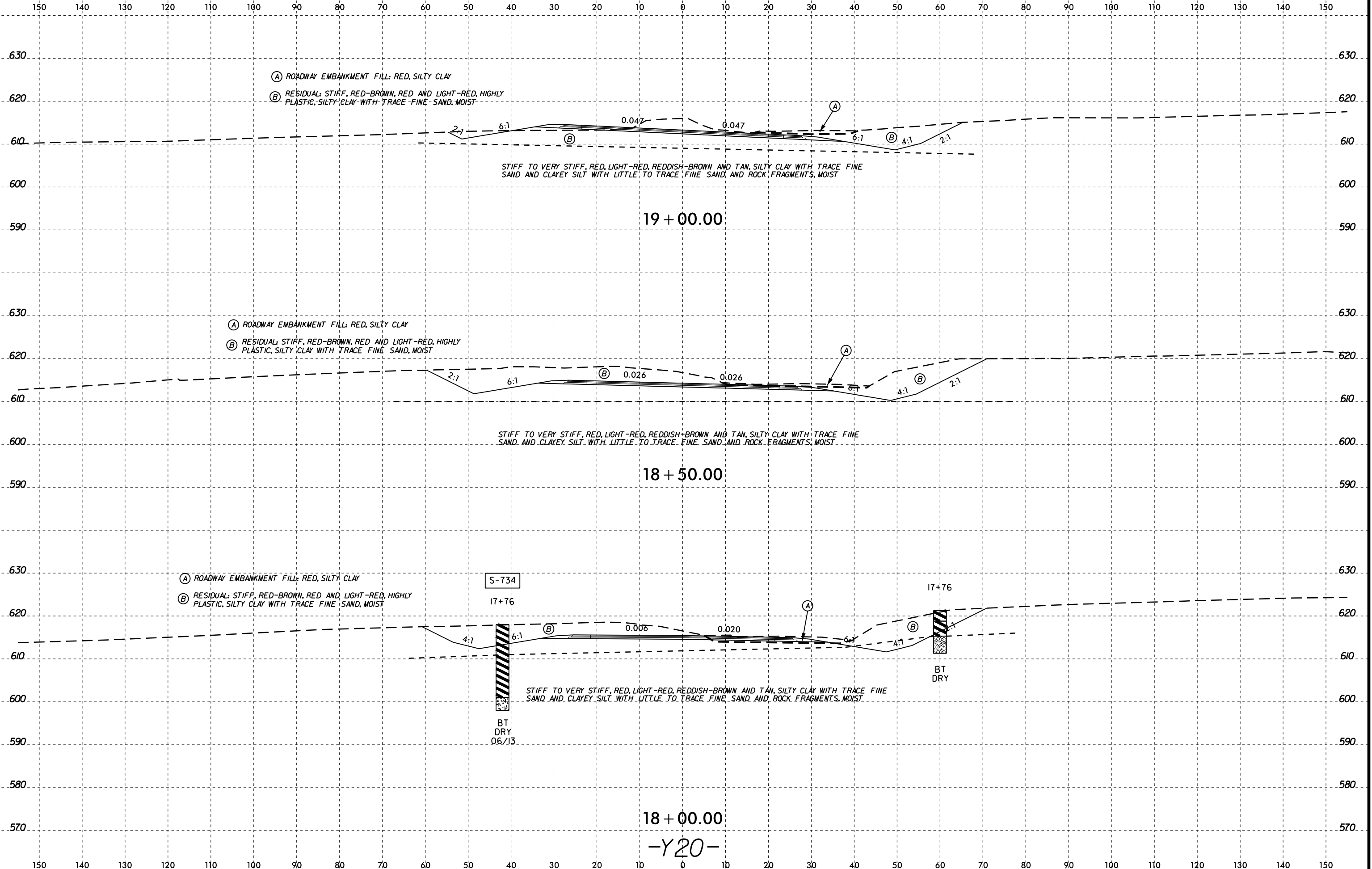
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BT
DRY

8/23/99
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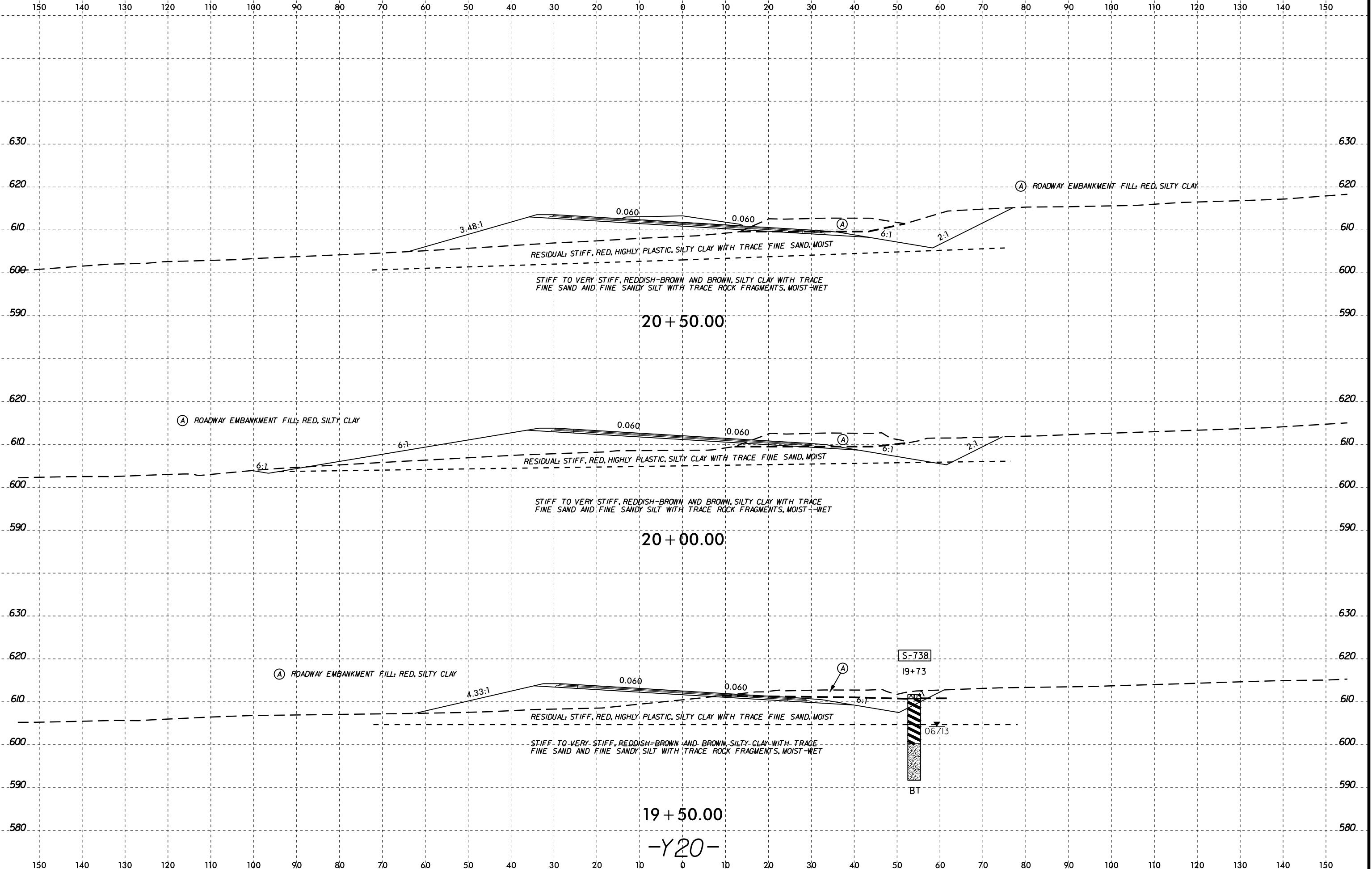
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18 + 50.00

18 + 00.00

-Y20-

8/23/99
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20 + 50.00

20 + 00.00

19 + 50.00

-Y20-

S-738

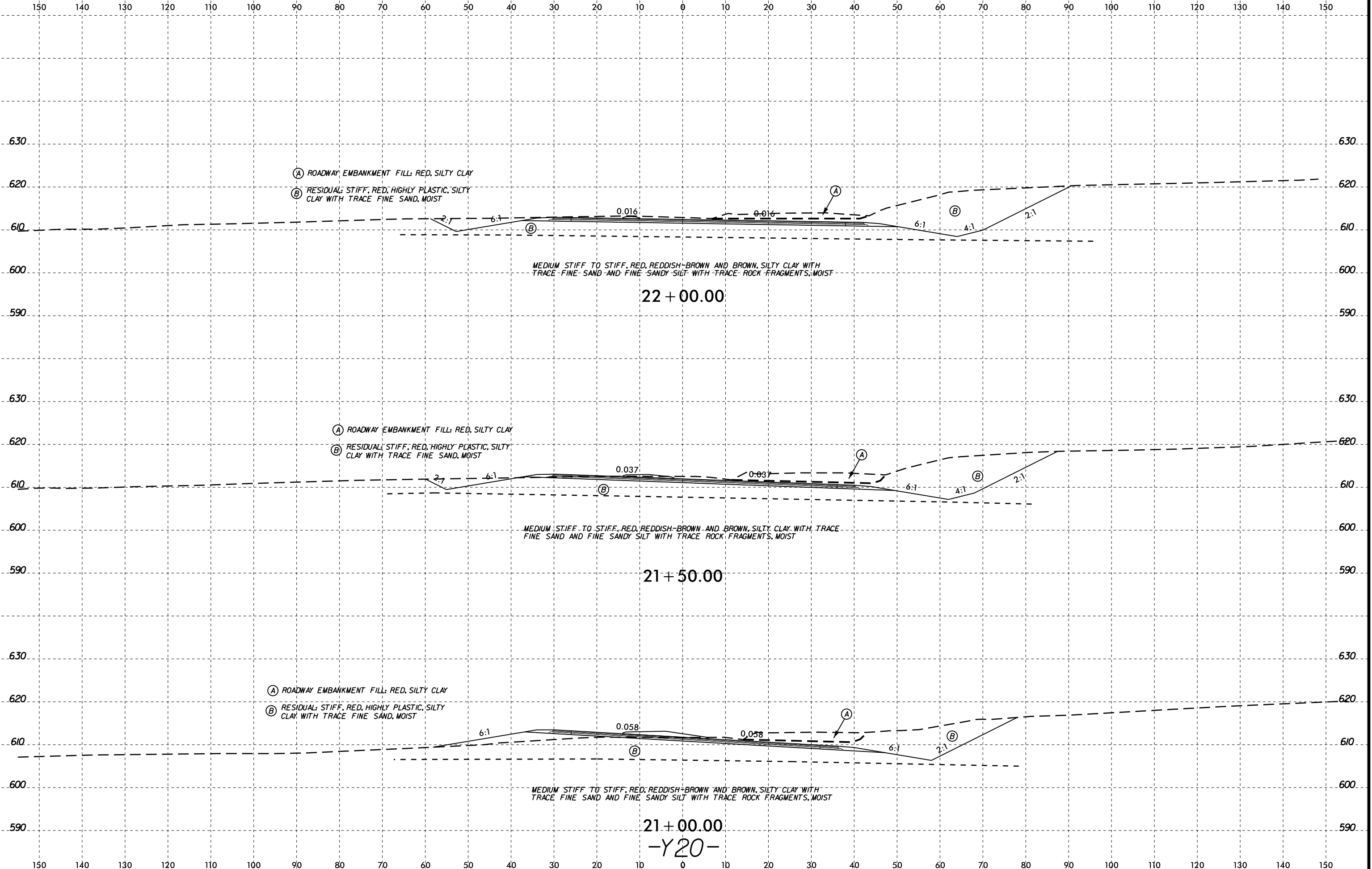
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BT

06713

8/23/99
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(A) ROADWAY EMBANKMENT FILL: RED, SILTY CLAY
(B) RESIDUAL: STIFF, RED, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

MEDIUM STIFF TO STIFF, RED, REDDISH-BROWN AND BROWN, SILTY CLAY WITH TRACE FINE SAND AND FINE SANDY SILT WITH TRACE ROCK FRAGMENTS, MOIST

22 + 00.00

(A) ROADWAY EMBANKMENT FILL: RED, SILTY CLAY
(B) RESIDUAL: STIFF, RED, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

MEDIUM STIFF TO STIFF, RED, REDDISH-BROWN AND BROWN, SILTY CLAY WITH TRACE FINE SAND AND FINE SANDY SILT WITH TRACE ROCK FRAGMENTS, MOIST

21 + 50.00

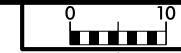
(A) ROADWAY EMBANKMENT FILL: RED, SILTY CLAY
(B) RESIDUAL: STIFF, RED, HIGHLY PLASTIC, SILTY CLAY WITH TRACE FINE SAND, MOIST

MEDIUM STIFF TO STIFF, RED, REDDISH-BROWN AND BROWN, SILTY CLAY WITH TRACE FINE SAND AND FINE SANDY SILT WITH TRACE ROCK FRAGMENTS, MOIST

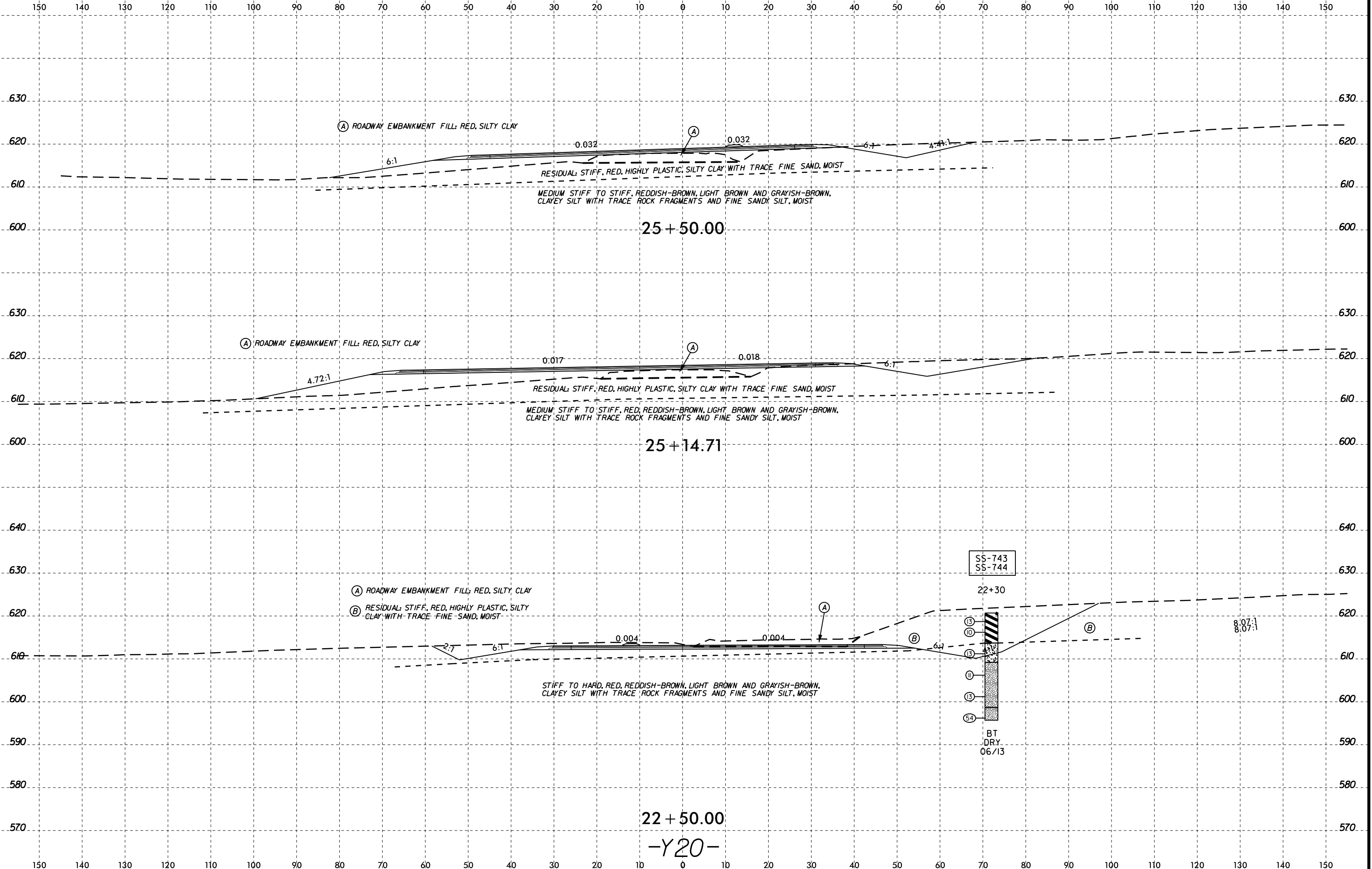
21 + 00.00

-Y20-

8/23/99



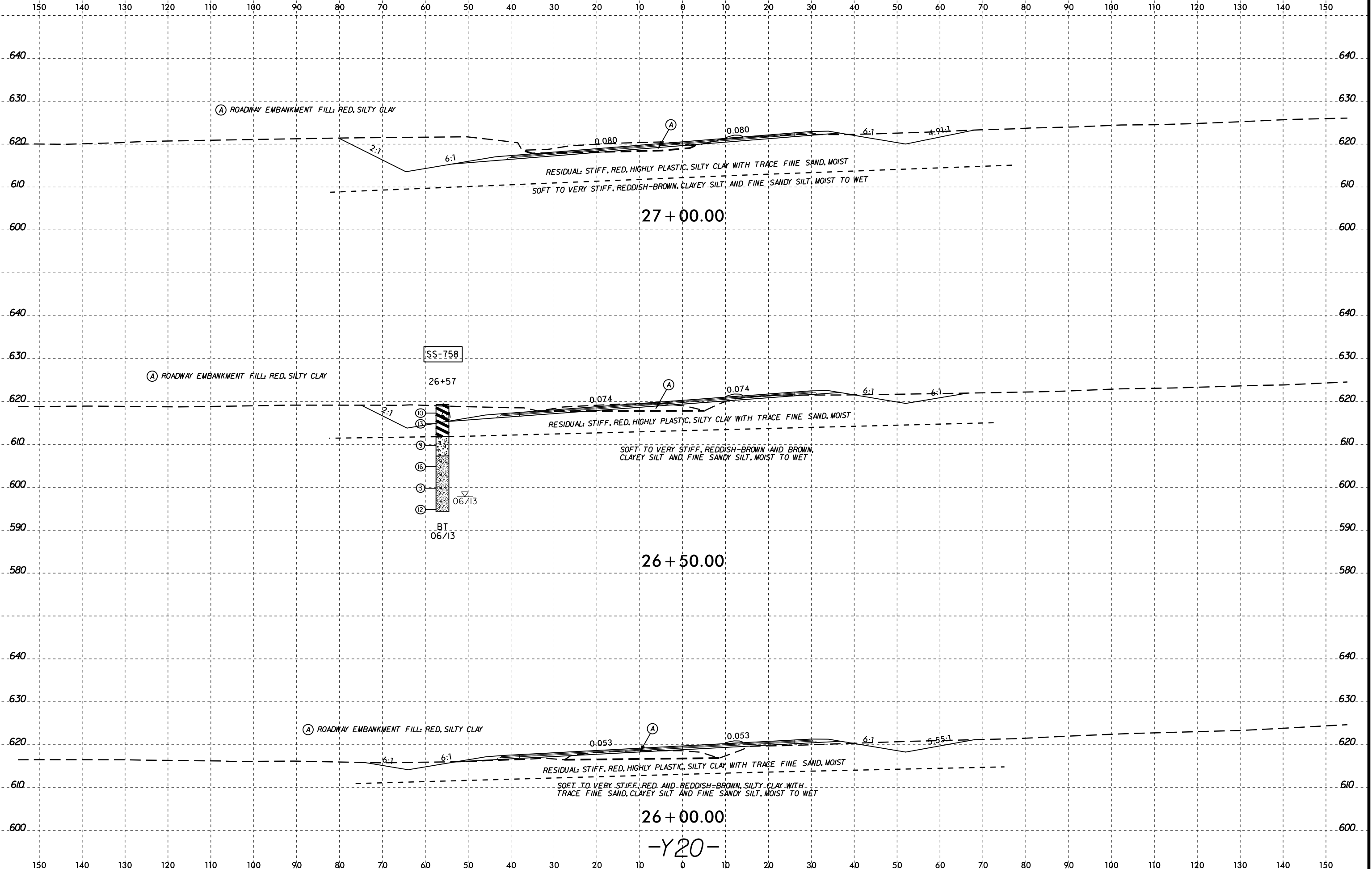
PROJ. REFERENCE NO.	SHEET NO.
U-3109A	243



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22 + 50.00
-Y20-

8/23/99
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27 + 00.00

26 + 50.00

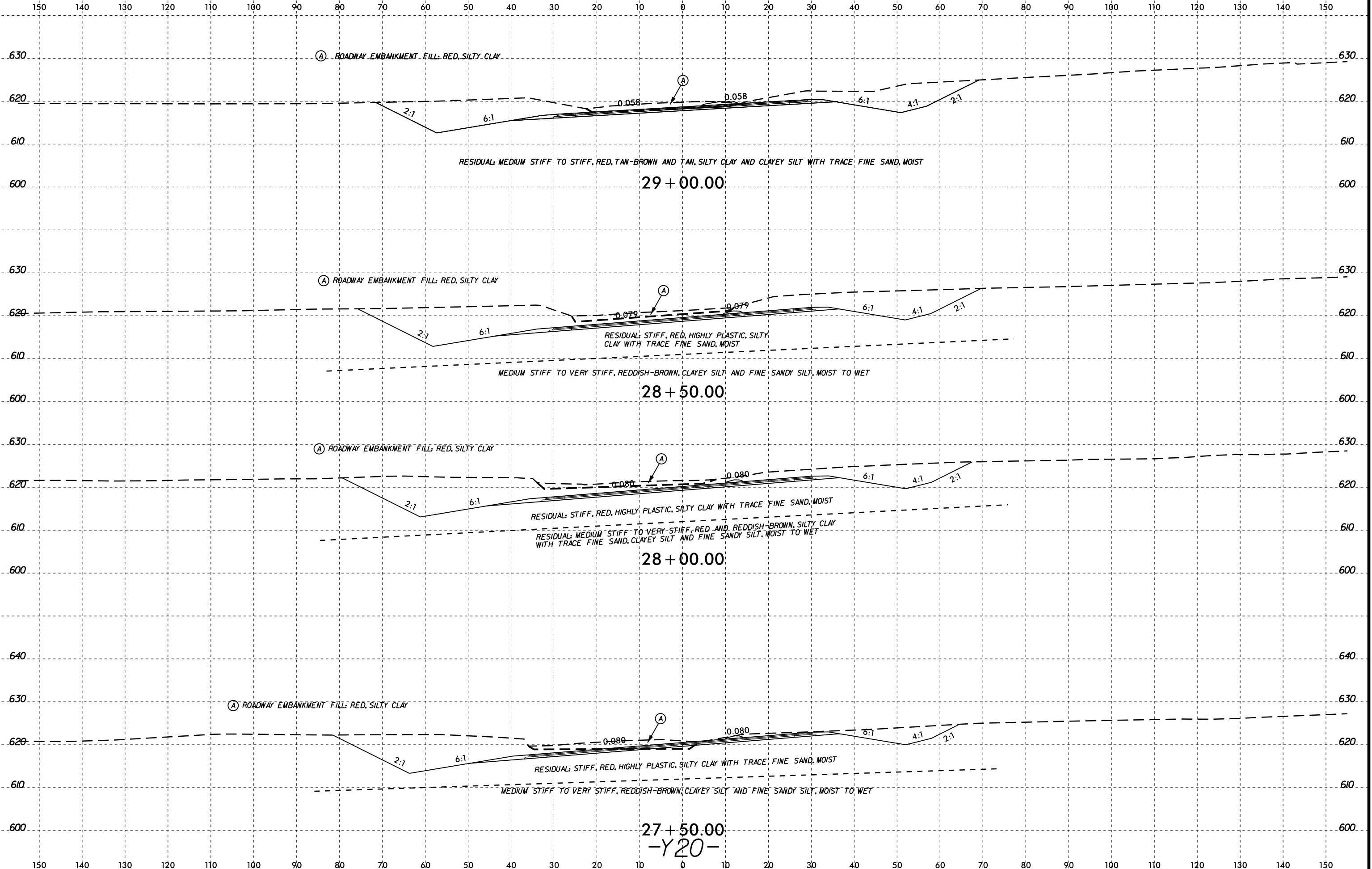
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-Y20-

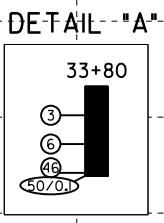
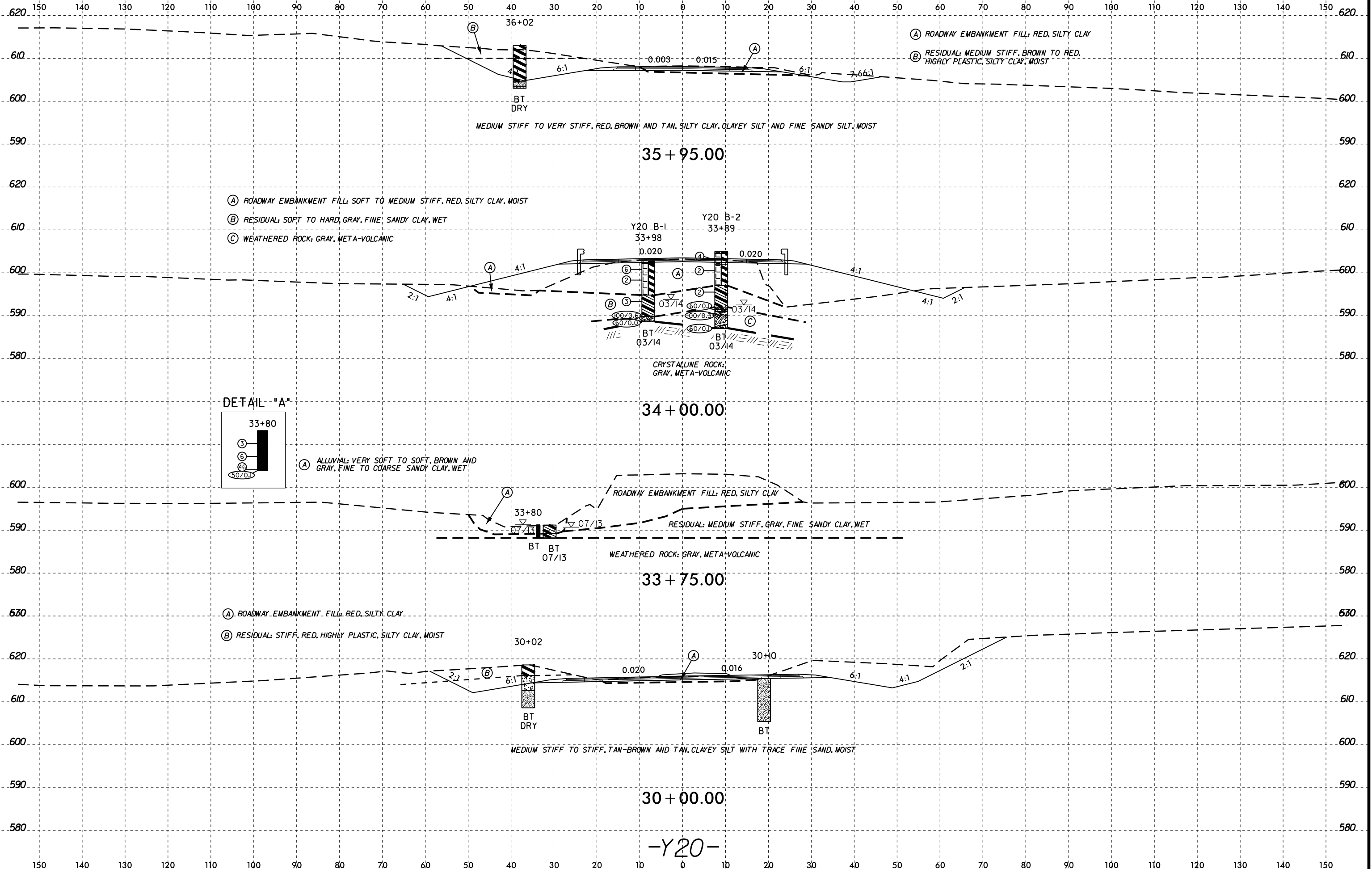
8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-3109A	245

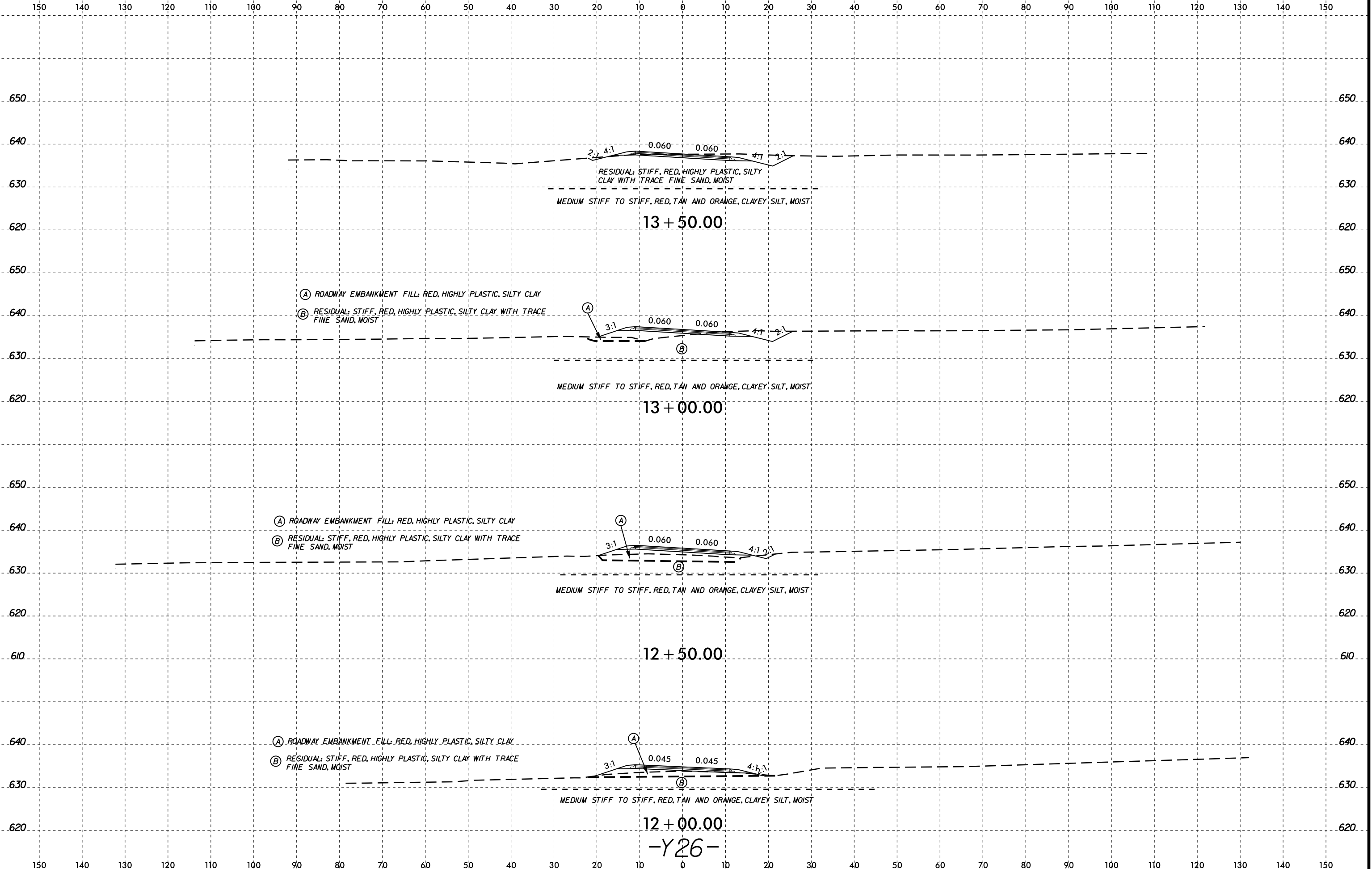
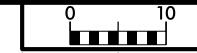


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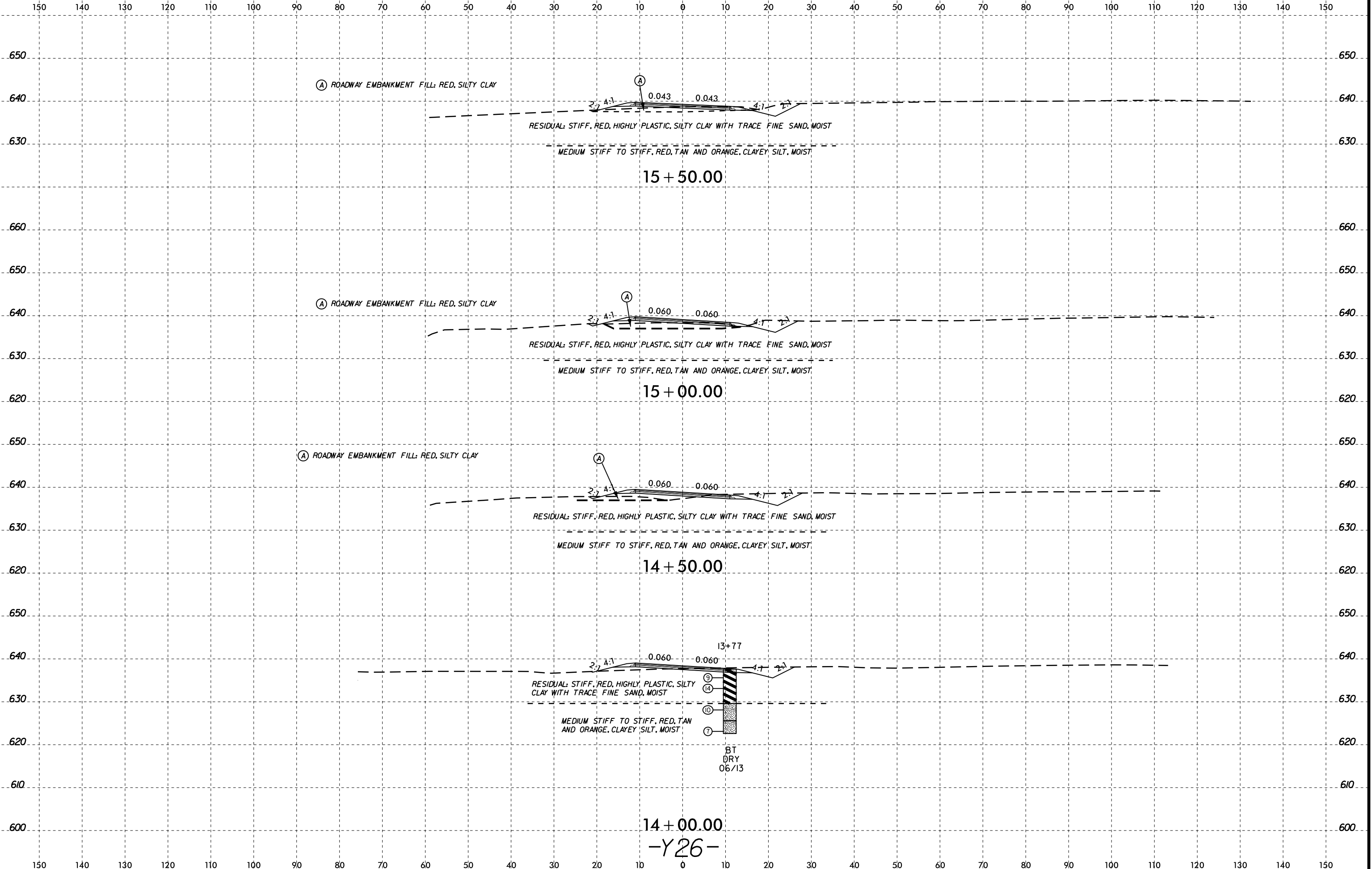


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PROJ. REFERENCE NO.	SHEET NO.
U-3109A	248



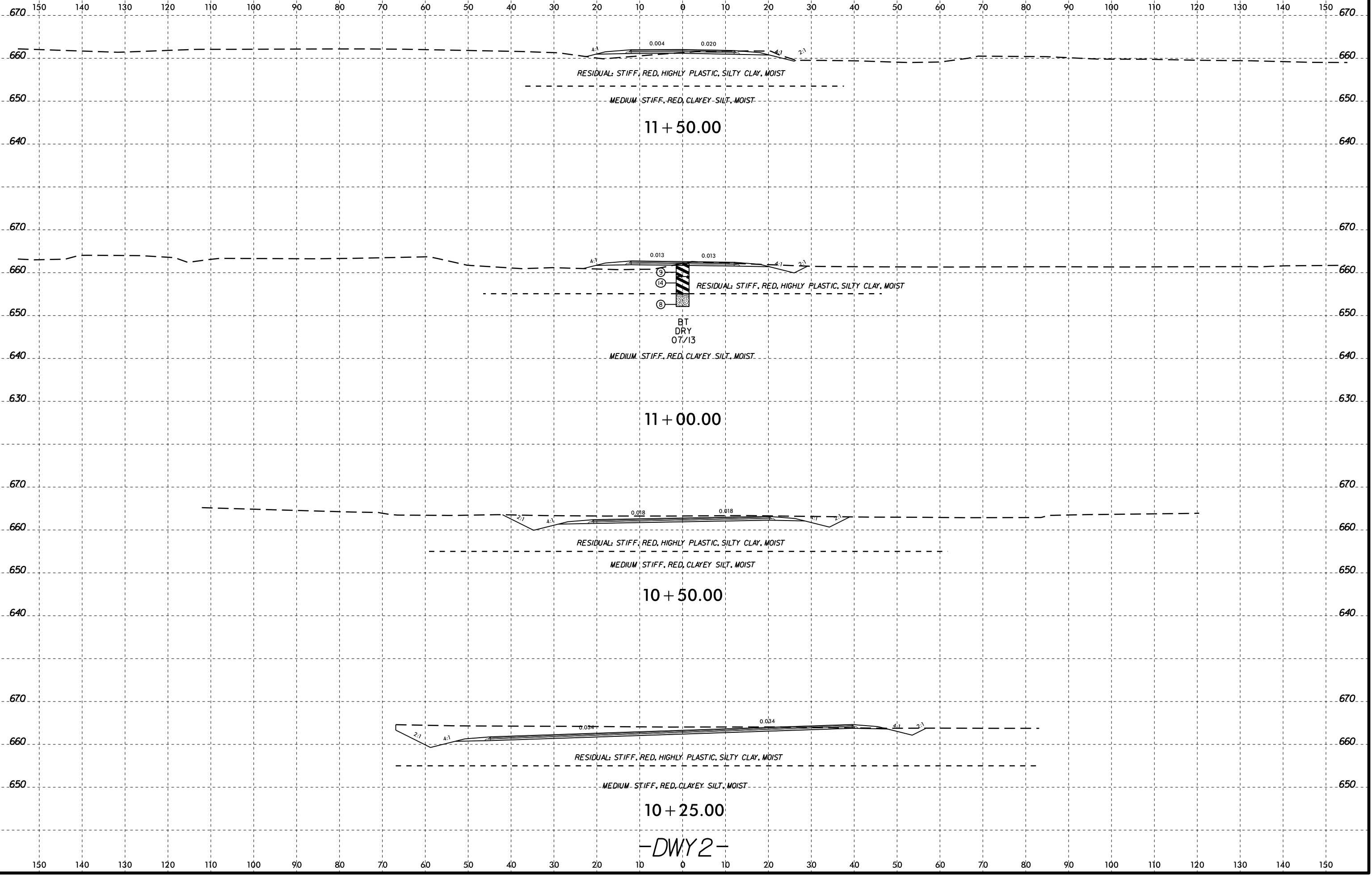
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PROJ. REFERENCE NO.	SHEET NO.
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NC 119 Relocation from I-40/85 to North of SR 1921 (Mebane Rogers Road/Stage Coach Road)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	ALIGNMENT	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-37	44 LT	L	10+22	0.0-1.5	A-7-6(34)	61	35	2.7	5.1	28.7	63.5	92.4	91.3	86.9	31.3	-
S-36	34 LT	L	12+98	2.5-4.5	A-7-5(38)	68	33	1.7	7.6	36.2	54.5	100	99	93.9	29.9	-
S-26	9 LT	L	21+98	2.5-4.5	A-7-6(27)	52	26	3.8	6.5	39.3	50.4	99	96.6	91	27.5	-
SS-136	17 RT	L	37+37	1.1-2.6	A-7-5(50)	83	39	0.5	1.6	17.3	80.6	100	99.7	98.5	40.6	-
SS-137	17 RT	L	37+37	3.6-5.1	A-7-5(32)	62	24	0.2	1.2	34.0	64.6	100	99.9	99.2	36.8	-
SS-138	17 RT	L	37+37	8.6-10.1	A-7-5(24)	63	19	1.3	13.7	43.6	41.4	100	99.8	89.9	48.0	-
S-146	28 LT	L	42+00	1.0-3.0	A-7-6(24)	48	22	3.4	1.6	41.3	53.6	98.8	96.4	94.8	23.5	-
SS-150	34 LT	L	43+77	3.6-5.1	A-7-5(41)	67	35	1.5	3.8	31.6	63.1	100	98.7	96.2	20.7	-
SS-151	34 LT	L	43+77	8.6-10.1	A-7-5(56)	86	47	1.6	4.6	22.5	71.3	100	99.5	96.3	38.6	-
S-155	50 LT	L	46+00	6.0-8.0	A-7-5(37)	67	29	0.7	3.3	29.2	66.8	100	99.6	97.6	41.7	-
S-157	50 LT	L	48+00	6.0-8.0	A-7-5(49)	75	40	0.7	2.6	32.5	64.2	99.8	99.4	97.7	32.6	-
SS-57	0	L	50+00	0.0-1.5	A-7-6(25)	47	24	2.1	3.8	39.8	54.2	99.4	97.9	95.2	27.6	-
S-422	50 LT	L	66+00	0.0-3.5	A-7-5(21)	52	19	2.5	9.4	43.0	45.1	100	98.7	91.1	38.4	-
S-423	50 LT	L	66+00	5.0-10.0	A-7-5(39)	69	33	1.6	5.8	26.5	66.1	100	99.2	94.5	33.2	-
SS-432	0	L	74+00	1.0-2.5	A-7-6(59)	79	51	0.5	3.5	29.1	66.9	100	99.7	97.8	31.5	-
SS-433	0	L	74+00	3.5-5.0	A-7-6(29)	53	26	2.2	6.3	40.0	51.4	99.4	97.8	95.1	39.3	-
SS-438	23 RT	L	82+18	1.0-2.5	A-7-5(41)	83	28	0.2	3.6	26.9	69.3	100	99.9	98.1	29.3	-
S-443	11 RT	L	85+30	0.0-4.0	A-7-6(20)	50	23	4.1	12.2	40.5	43.2	91.0	88.6	80.9	23.4	-
SS-449	80 LT	L	91+00	1.0-2.5	A-7-5(51)	76	44	0.7	5.2	23.6	70.5	100	99.7	96.0	38.0	-
SS-451	80 LT	L	91+00	8.5-10.0	A-7-5(22)	54	20	4.0	13.0	44.7	38.3	100	97.8	88.0	50.3	-
SS-458	48 RT	L	94+57	1.0-2.5	A-6(16)	39	15	0.7	6.0	54.7	38.6	100	99.5	96.3	37.1	-
S-494	70 RT	L	98+00	4.0-5.0	A-6(9)	39	14	4.5	17.2	51.5	26.8	86.1	84.1	72.4	32.7	-
SS-490	0	L	100+00	1.0-2.5	A-7-5(30)	56	26	1.2	6.7	34.5	57.6	100	99.4	95.1	38.9	-
S-483	0	L	104+00	0.0-4.0	A-7-6(32)	55	28	1.0	0.9	41.5	56.6	100	99.4	98.5	29.7	-
S-480	16 LT	L	105+65	7.0-9.0	A-7-5(27)	58	20	0.9	3.1	49.4	46.6	100	99.5	97.6	47.5	-
S-193	60 LT	L	113+55	6.0-8.0	A-7-5(20)	51	16	0.7	6.5	57.4	35.4	100	99.7	96.5	60.7	-
SS-197	70 LT	L	115+00	3.3-4.8	A-7-5(14)	42	12	0.7	7.8	64.1	27.4	100	99.8	95.2	23.9	-
SS-199	70 LT	L	115+00	13.3-14.8	A-4(11)	36	10	0.1	3.0	67.3	29.6	100	100	98.5	50.7	-
SS-213	14 RT	L	118+63	8.3-9.8	A-7-5(30)	64	22	0.3	4.6	45.9	49.2	100	99.8	97.5	44.6	-
SS-215	14 RT	L	118+63	18.3-19.8	A-7-5(13)	41	11	0.6	8.7	62.1	28.6	100	99.8	95.7	33.1	-
SS-229	0	L	123+00	0.9-1.4	A-7-6(53)	74	46	0.5	2.4	27.9	69.2	100	99.7	98.2	30.6	-
SS-230	0	L	123+00	3.3-4.8	A-7-6(22)	46	19	0.2	2.4	47.5	49.9	100	99.9	98.8	24.2	-
SS-233	0	L	123+00	18.3-19.8	A-4(6)	30	6	1.9	11.5	69.0	17.6	100	98.9	93.9	19.6	-
S-279	0	L	154+00	18.0-20.0	A-7-5(14)	44	12	5.5	3.6	62.8	28.1	100	96.9	91.5	46.5	-
S-541	11 LT	L	164+13	1.0-3.5	A-7-5(46)	74	41	1.8	7.9	32.3	58.0	98.7	97.4	92.6	38.7	-
S-529	21 RT	L	166+33	1.0-3.5	A-7-6(55)	74	49	1.4	3.5	39.0	56.1	100	99.1	96.6	43.6	-
SS-526	0	L	168+00	1.0-2.5	A-7-6(22)	42	20	0.2	5.3	56.6	37.9	100	99.9	98.3	21.4	-
SS-519	0	L	172+00	1.0-2.5	A-7-5(58)	83	48	0.1	1.8	30.7	67.4	100	100	99.4	29.5	-
SS-520	0	L	172+00	3.5-5.0	A-7-5(21)	50	16	0.0	2.3	58.5	39.2	100	100	99.6	29.9	-
S-517	0	L	174+00	6.0-8.0	A-7-5(37)	65	31	0.7	4.7	42.7	51.9	100	99.8	96.8	35.5	-
SS-508	0	L	176+00	1.0-2.5	A-7-5(36)	64	29	0.6	2.2	42.3	54.9	100	99.6	98.1	33.9	-
SS-510	0	L	176+00	8.5-10.0	A-7-5(16)	48	11	0.6	3.0	50.4	46.0	100	99.6	98.0	42.4	-
S-515	0	L	178+00	1.0-2.5	A-7-5(55)	82	46	0.5	5.4	24.8	69.3	100	99.8	96.6	49.7	-
S-710	4 LT	L	187+65	0.0-4.0	A-7-5(41)	83	29	2.0	3.3	21.1	73.5	99.8	98.3	95.9	44.3	-
SS-750	28 LT	L	190+37	0.0-1.5	A-7-5(43)	72	34	0.5	2.0	26.6	70.9	100	99.8	98.5	37.1	-
S-747	38 LT	L	191+28	1.0-3.5	A-7-5(42)	69	34	0.4	2.6	32.6	64.4	100	99.7	98.5	33.8	-
S-748	38 LT	L	191+28	7.0-8.5	A-7-5(46)	72	38	0.2	3.7	57.5	38.6	100	99.9	98.2	34.2	-
S-103	25 LT	RPA	11+11	3.5-5.0	A-7-6(29)	52	26	2.8	6.2	44.7	46.2	99.3	97.1	96.1	27.7	-
S-104	11 RT	RPA	13+99	3.5-5.0	A-7-6(37)	60	33	0.9	4.1	28.5	66.5	100	99.5	96.9	31.3	-
SS-126	20 LT	RPB	11+00	3.6-5.1	A-5(10)	43	7	1.6	15.1	59.1	24.2	100	99.5	90.9	30.8	-
S-130	22 RT	RPB	17+01	1.0-3.0	A-7-6(38)	63	37	4.4	6.8	33.5	55.3	99.9	96.7	91.0	26.2	-
SS-122	1 LT	RPBSPUR	12+49	1.0-2.5	A-7-5(45)	72	36	0.3	1.4	22.8	75.5	100	99.9	99.1	31.3	-
S-16	14 LT	RPC	12+51	2.5-4.5	A-7-5(27)	58	21	0.8	7.2	50.1	41.9	100	99.7	95.8	58.6	-
S-12	4 LT	RPCSPUR	17+94	2.5-4.5	A-7-5(36)	65	28	0.0	2.0	34.3	63.7	100	100	99.2	36.5	-

NC 119 Relocation from I-40/85 to North of SR 1921 (Mebane Rogers Road/Stage Coach Road)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	ALIGNMENT	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-1	2 RT	RPDSPUR	18+56	0.0-1.5	A-7-6(28)	52	23	0.3	1.6	36.9	61.2	100	99.9	99.0	30.8	-
SS-64	0	Y5A	13+00	0.0-1.5	A-7-5(38)	77	29	2.5	4.1	47.6	45.8	100	98.3	95.2	22.8	-
SS-139	29 LT	Y5B	12+10	1.1-2.6	A-7-6(30)	56	28	4.2	5.5	41.1	49.1	99.3	96.0	91.8	25.3	-
S-401	0	Y6	19+00	6.0-8.0	A-7-5(30)	58	24	0.6	4.7	40.0	54.7	100	99.6	98.2	33.2	-
S-316	0	Y6	22+00	1.0-3.0	A-7-5(34)	60	28	0.1	2.4	44.9	52.6	100	100	99.1	28.5	-
SS-312	0	Y6	24+00	1.0-2.5	A-7-5(45)	74	37	0.8	4.8	26.9	67.5	100	99.6	96.7	32.9	-
SS-313	0	Y6	24+00	3.4-4.9	A-7-5(25)	56	19	0.3	4.4	44.2	51.1	100	99.9	98.4	31.3	-
SS-321	10 LT	Y6	20+48	1.1-2.6	A-7-5(50)	80	44	2.9	5.6	22.0	69.5	99.7	98.0	93.3	12.5	-
SS-158	0	Y6A	12+00	1.2-2.7	A-7-6(20)	43	18	3.5	0.6	71.9	24.0	99.3	96.3	95.6	28.7	-
S-161	45 LT	Y6A	14+95	1.0-3.0	A-7-6(31)	55	27	0.9	3.9	32.0	63.2	100	99.5	97.2	29.6	-
S-163	30 RT	Y6A	18+00	1.0-3.0	A-7-6(31)	54	27	1.8	3.6	45.3	49.2	98.7	96.9	96.6	25.8	-
SS-165	16 RT	Y6A	21+02	1.5-3.0	A-7-6(32)	56	29	2.7	3.5	32.9	60.9	99.7	98.0	95.0	28.4	-
SS-166	16 RT	Y6A	21+02	3.2-4.7	A-7-5(31)	59	25	0.1	4.7	41.2	54.0	100	99.9	98.5	27.6	-
SS-40	27 RT	Y7	14+95	0.0-1.5	A-7-5(47)	79	37	0.6	4.4	33.6	61.4	100	99.6	96.8	42.6	-
SS-46	0	Y7	24+00	0.0-1.5	A-7-5(47)	72	38	0.2	6.9	28.9	64.0	100	99.9	99.2	37.0	-
SS-1119	6 RT	Y7A	16+53	3.5-5.5	A-7-6(18)	41	17	1.8	0.3	53.8	44.1	97.0	95.8	95.2	22.2	-
SS-1115	21 LT	Y7A	18+96	3.5-5.0	A-7-6(17)	41	16	2.7	0.7	54.0	42.6	98.4	96.3	95.2	27.3	-
SS-183	21 LT	Y7A	21+99	3.3-4.8	A-7-6(33)	55	29	0.8	6.2	43.2	49.8	100	99.4	98.3	23.7	-
SS-1111	28 LT	Y7B	14+91	1.0-2.5	A-7-6(36)	59	32	0.1	4.5	33.8	61.6	97.7	97.6	96.1	27.4	-
SS-168	0	Y9	12+00	1.2-2.7	A-7-6(26)	53	27	3.5	6.7	36.0	53.7	93.6	91.3	86.5	24.6	-
S-832	0	Y10	16+00	2.0-3.0	A-7-6(30)	49	28	2.2	3.7	39.1	54.9	99.2	97.5	96.4	23.8	-
S-805	0	Y10	23+00	0.0-3.5	A-7-6(80)	98	73	2.2	4.8	42.1	50.9	100	98.4	95.0	29.1	-
S-810	0	Y10	27+00	11.0-12.5	A-7-6(24)	46	23	4.1	10.3	47.8	37.8	99.8	96.1	95.1	26.4	-
SS-822	3 RT	Y10	33+17	0.0-1.5	A-7-6(23)	43	21	1.8	2.7	40.8	54.7	99.7	98.1	97.8	29.7	-
SS-829	2 RT	Y11	16+44	0.5-2.0	A-6(18)	38	18	2.9	9.0	45.2	42.8	98.6	97.1	95.0	20.6	-
SS-470	0	Y13	10+50	3.5-5.0	A-4(10)	34	10	1.7	5.8	61.9	30.6	100	98.8	96.1	34.8	-
S-465	20 RT	Y13	13+13	0.0-4.0	A-7-6(23)	43	22	1.2	5.8	52.2	40.8	99.0	98.6	97.4	21.4	-
S-186	17 LT	Y13	18+42	1.0-2.5	A-7-5(24)	51	20	1.3	5.4	50.3	43.0	100	99.2	95.6	35.0	-
SS-263	12 LT	Y16	21+95	1.1-2.6	A-7-5(61)	94	48	0.4	2.0	22.7	74.9	100	99.8	98.5	32.6	-
S-77	29 LT	Y16	28+00	2.5-4.0	A-7-5(43)	70	34	0.2	1.8	31.8	66.2	100	99.9	99.0	29.1	-
S-82	42 LT	Y16	33+64	2.5-4.0	A-7-5(35)	61	29	0.6	4.3	42.7	52.4	100	99.8	97.6	27.4	-
SS-84	34 LT	Y16	39+92	0.0-1.5	A-7-6(29)	55	26	2.4	5.6	30.4	61.6	100	98.4	94.0	27.6	-
SS-239	0	Y16 RPA	17+00	0.8-2.3	A-7-5(43)	70	37	1.3	4.1	31.4	63.2	100	99.4	96.1	31.6	-
SS-725	51 LT	Y20	11+95	3.5-5.0	A-7-5(63)	88	52	0.4	1.7	30.3	67.6	100	99.8	98.7	33.2	-
SS-726	51 LT	Y20	11+95	8.5-10.0	A-5(13)	45	9	3.7	4.0	71.8	20.5	100	99.0	95.0	27.9	-
S-730	48 RT	Y20	12+49	7.0-8.0	A-7-5(28)	56	24	1.1	4.8	43.1	51.0	100	99.6	96.0	27.9	-
S-734	42 LT	Y20	17+76	8.0-9.0	A-7-5(24)	53	19	0.4	2.0	50.1	47.5	100	99.8	98.5	25.6	-
S-738	54 RT	Y20	19+73	7.0-8.0	A-7-6(22)	48	19	1.1	3.4	51.8	43.7	100	99.3	97.4	30.0	-
SS-743	72 RT	Y20	22+30	8.5-10.0	A-5(6)	44	10	9.0	21.8	46.1	23.1	83.1	78.7	62.9	34.0	-
SS-744	72 RT	Y20	22+30	13.5-15.0	A-4(4)	34	3	2.4	11.4	71.3	14.9	100	99.3	89.9	33.8	-
SS-758	56 LT	Y20	26+57	3.5-5.0	A-7-5(47)	77	38	0.1	3.6	25.6	70.7	100	99.9	98.5	39.8	-