	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	1

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1640 1630 1620 1610 1600 1590 1580 1570

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
6:1
6:1
2.10%
2.10%
1595.05
6:1
0.00%
6:1
2.60%
2.10%
2.10%
1594.39
6:1
Existing R/W

7906+75.00

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
6:1
6:1
2.10%
2.10%
1594.65
6:1
0.00%
6:1
2.60%
2.10%
2.10%
1594.00
6:1
Existing R/W

7906+50.00

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
6:1
6:1
2.10%
2.10%
1594.29
6:1
0.00%
6:1
2.10%
2.10%
1593.65
6:1
Existing R/W

7906+27.50

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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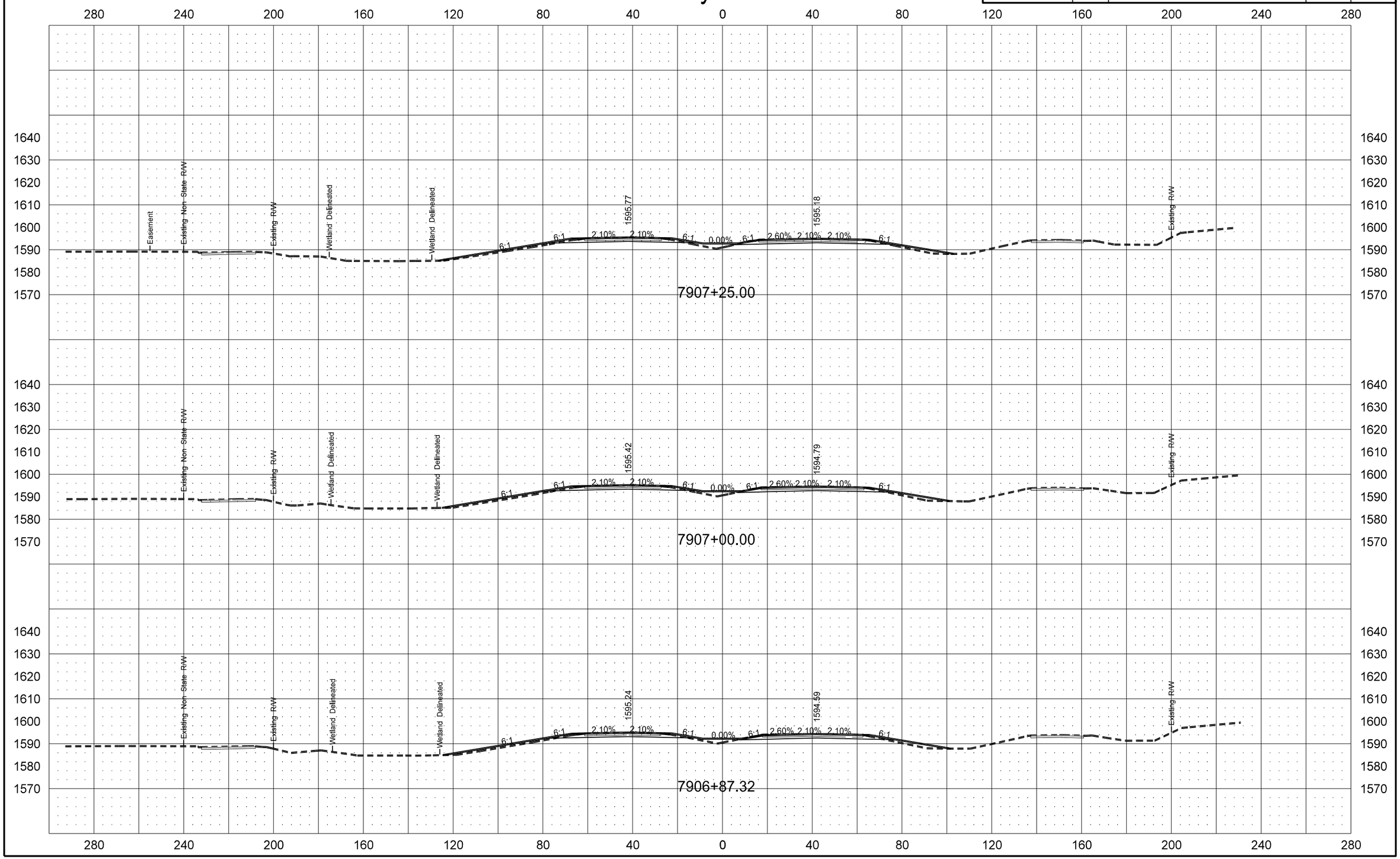
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	2

US Hwy 2



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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	3

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1640 1630 1620 1610 1600 1590 1580 1570

Easement | Existing Non-State R/W | Existing R/W | Wetland Delineated | Wetland Delineated | Wetland Delineated | Wetland Delineated | Existing R/W

6:1 6:1 2.10% 2.10% 6:1 0.00% 6:1 2.60% 2.10% 2.10% 6:1

1596.59 1596.24

7908+00.00

1596.35 1595.92

7907+75.00

1596.07 1595.56

7907+50.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	4

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Easement
Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1596.79
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
2.10%
6:1
1596.53
Existing R/W

7908+25.00

Easement
Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1596.70
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
2.10%
6:1
1596.39
Existing R/W

7908+12.50

Easement
Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1596.66
6:1
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
2.10%
6:1
1596.33
Existing R/W

7908+07.50

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

US Hwy 2

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	5

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1597.23
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
2.10%
6:1
1597.20
Existing R/W

7909+00.00

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1597.10
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
2.10%
6:1
1597.01
Existing R/W

7908+75.00

Easement
Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1596.97
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
2.10%
6:1
1596.78
Existing R/W

7908+50.00

US Hwy 2

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	6

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1597.48
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
1597.48
2.10%
6:1
Existing R/W

7909+50.00

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1597.39
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
1597.39
2.10%
6:1
Existing R/W

7909+32.50

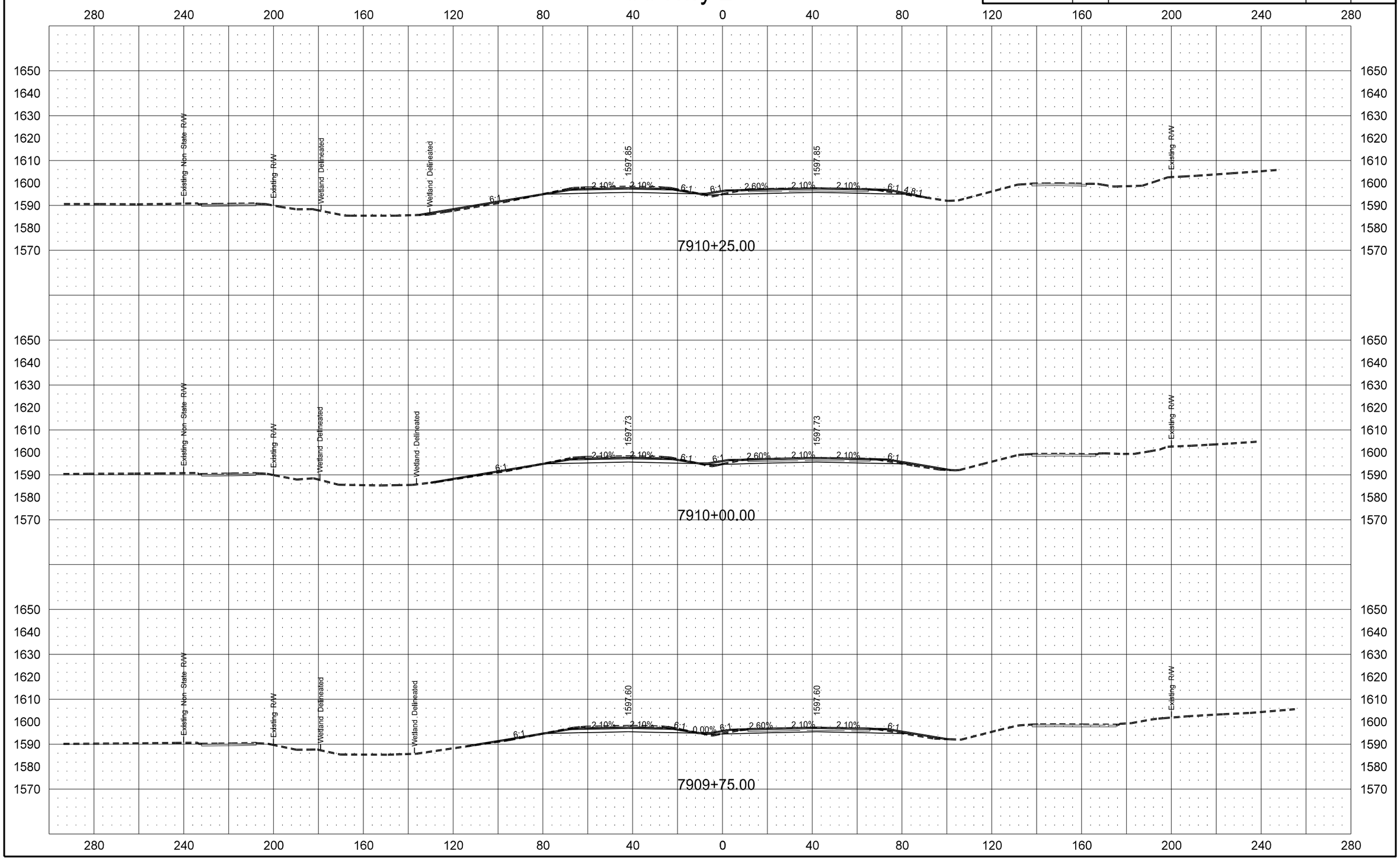
Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
Wetland Delineated
Wetland Delineated
1597.35
6:1
2.10%
2.10%
6:1
0.00%
6:1
2.60%
2.10%
1597.35
2.10%
6:1
Existing R/W

7909+25.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	7

US Hwy 2



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	8

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

New R/W
Existing Non-State R/W
Existing R/W
Wetland Delineated
Match Line See East Frontage Road Cross Sections
1586.00
0.00% 24:1
Wetland Delineated
6:1
6:1
2.10%
1598.23
2.10%
6:1
6:1
2.60%
2.10%
1598.23
2.10%
6:1
4:1
0.00%
Match Line See East Frontage Road Cross Sections
Existing R/W

7911+00.00

Existing Non-State R/W
Existing R/W
Wetland Delineated
Match Line See East Frontage Road Cross Sections
1586.00
0.00% 24:1
Wetland Delineated
6:1
6:1
2.10%
1598.10
2.10%
6:1
6:1
2.60%
2.10%
1598.10
2.10%
6:1
4:1
0.00%
Match Line See East Frontage Road Cross Sections
Existing R/W

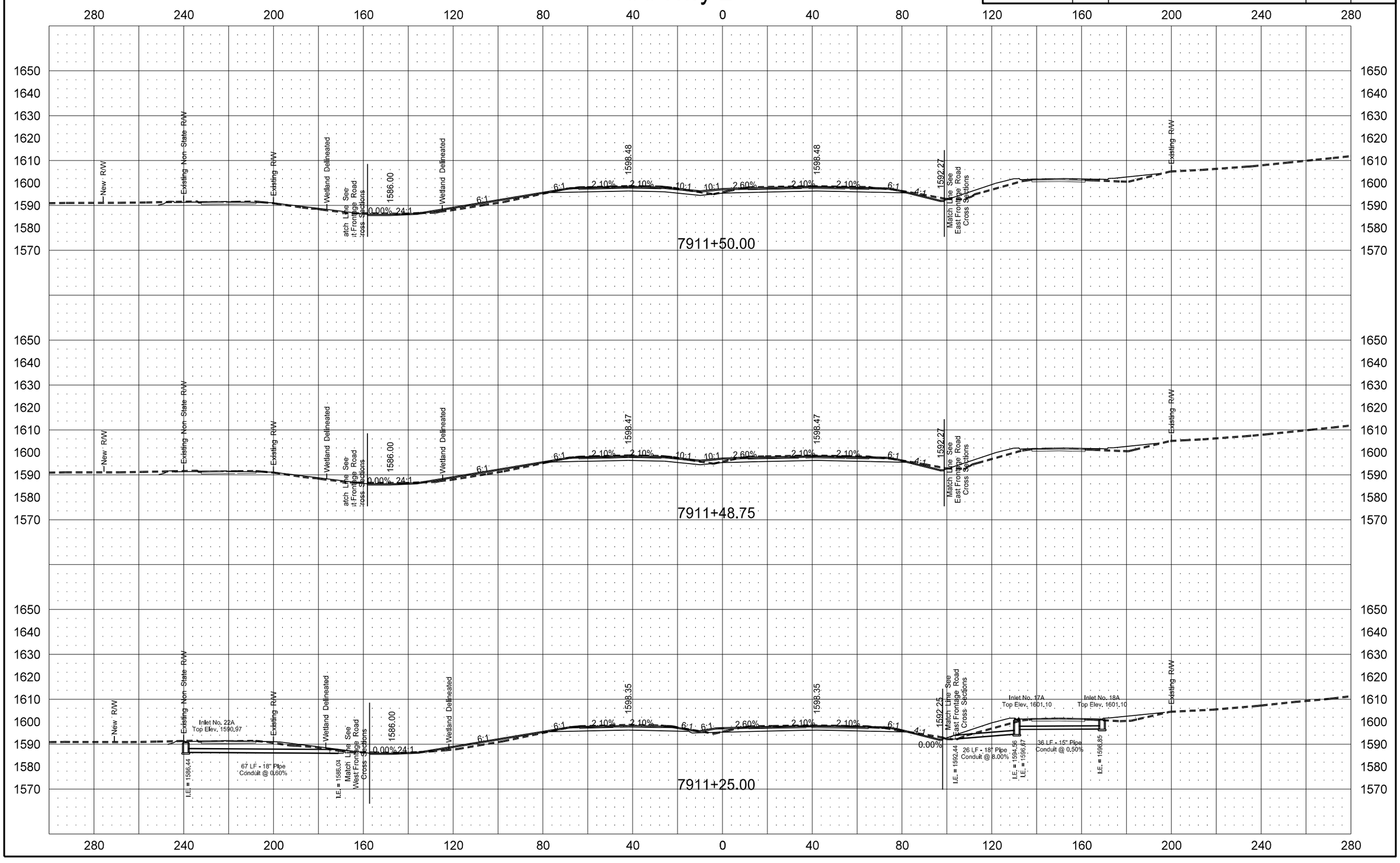
7910+75.00

Existing Non-State R/W
Existing R/W
Wetland Delineated
Wetland Delineated
6:1
6:1
2.10%
1597.98
2.10%
6:1
6:1
2.60%
2.10%
1597.98
2.10%
6:1
4:1
Existing R/W

7910+50.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	9

US Hwy 2



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	10

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing Non-State R/W
New R/W
Wetland Mitigation
Wetland Delineated
Existing R/W
Match Line See East Frontage Road Cross Sections
1586.00
1598.73
1598.60
1598.55
1592.30
1592.28
0.00% 24:1
6:1
2.10%
10:1
2.60%
30" Pipe Offset 159.2' RT I.E. 1593.54
30" Pipe Offset 130.6' RT I.E. 1593.32
30" Pipe Offset 119.2' RT I.E. 1593.23

7912+00.00

7911+75.00

7911+65.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	11

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing Non State R/W

Wetland Mitigation

Match Line See East Frontage Road Cross Sections

1595.50

0.00%

24:1

6:1

1599.10

2.10%

10:1

2.60%

1592.35

4:1

30" Pipe
Offset 245.0' RT
I.E. 1594.22

7912+75.00

1598.98

1596.00

30" Pipe
Offset 216.4' RT
I.E. 1593.99

7912+50.00

1598.85

1586.00

30" Pipe
Offset 187.8' RT
I.E. 1593.77

7912+25.00

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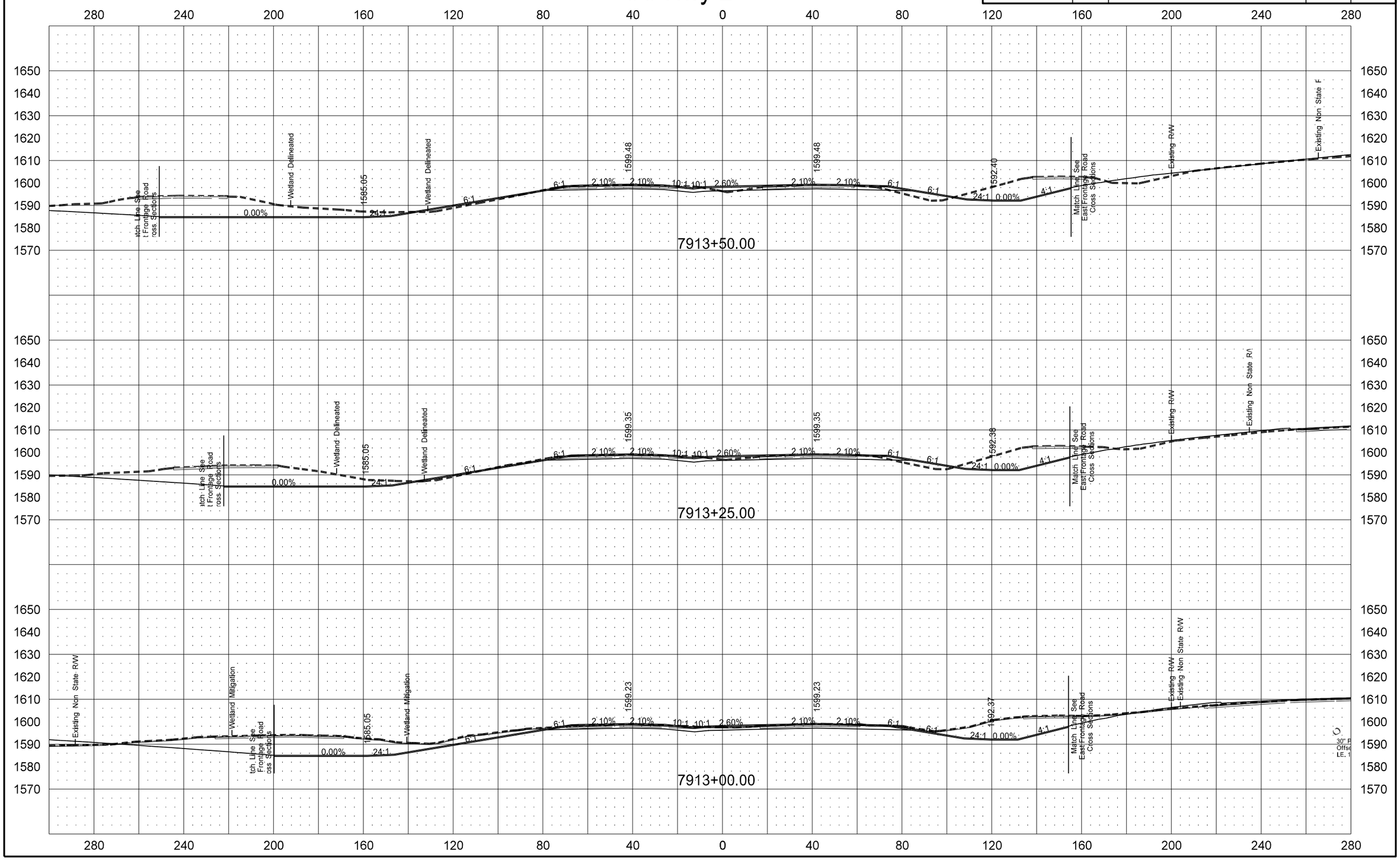
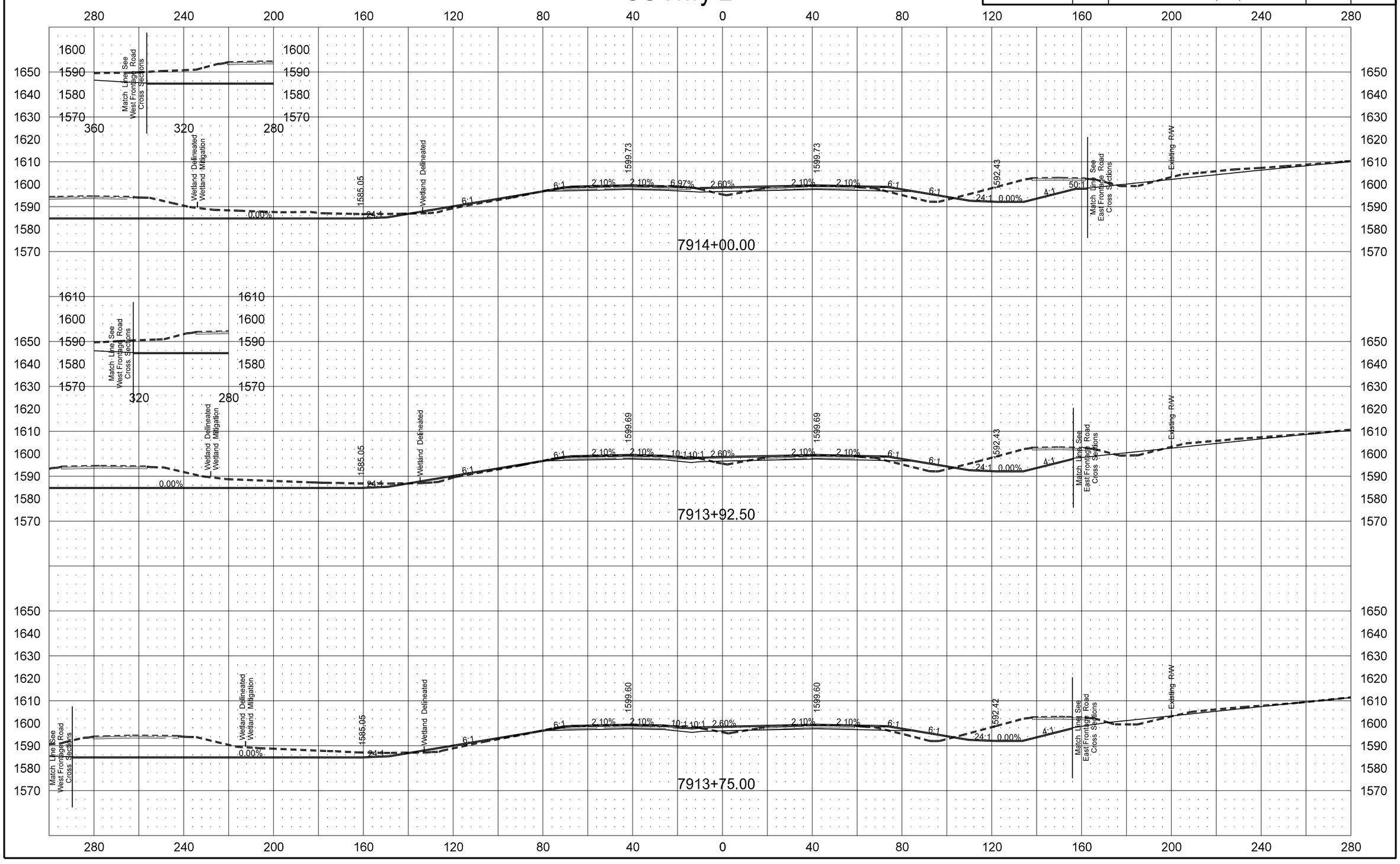
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	12

US Hwy 2



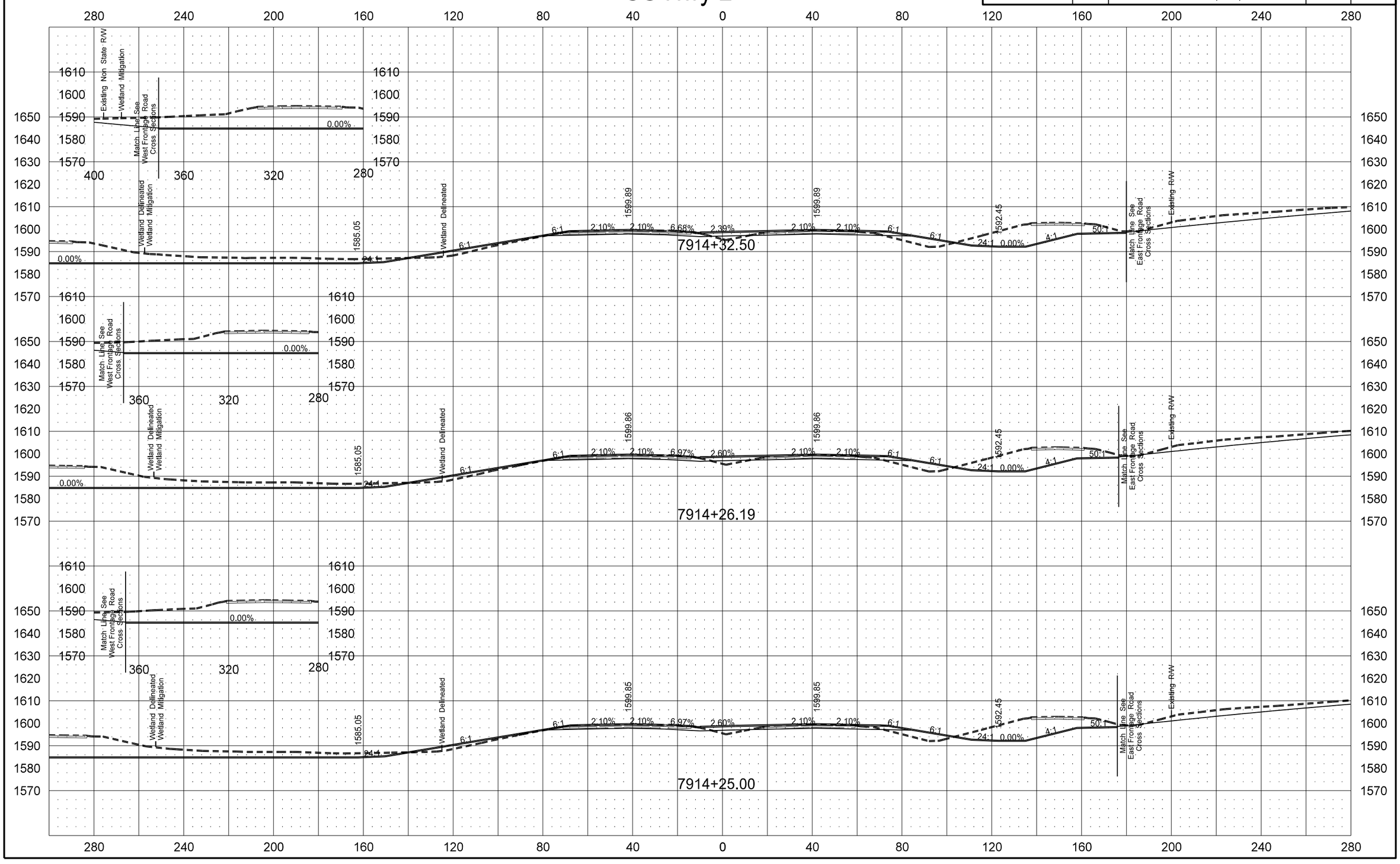
US Hwy 2

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	13



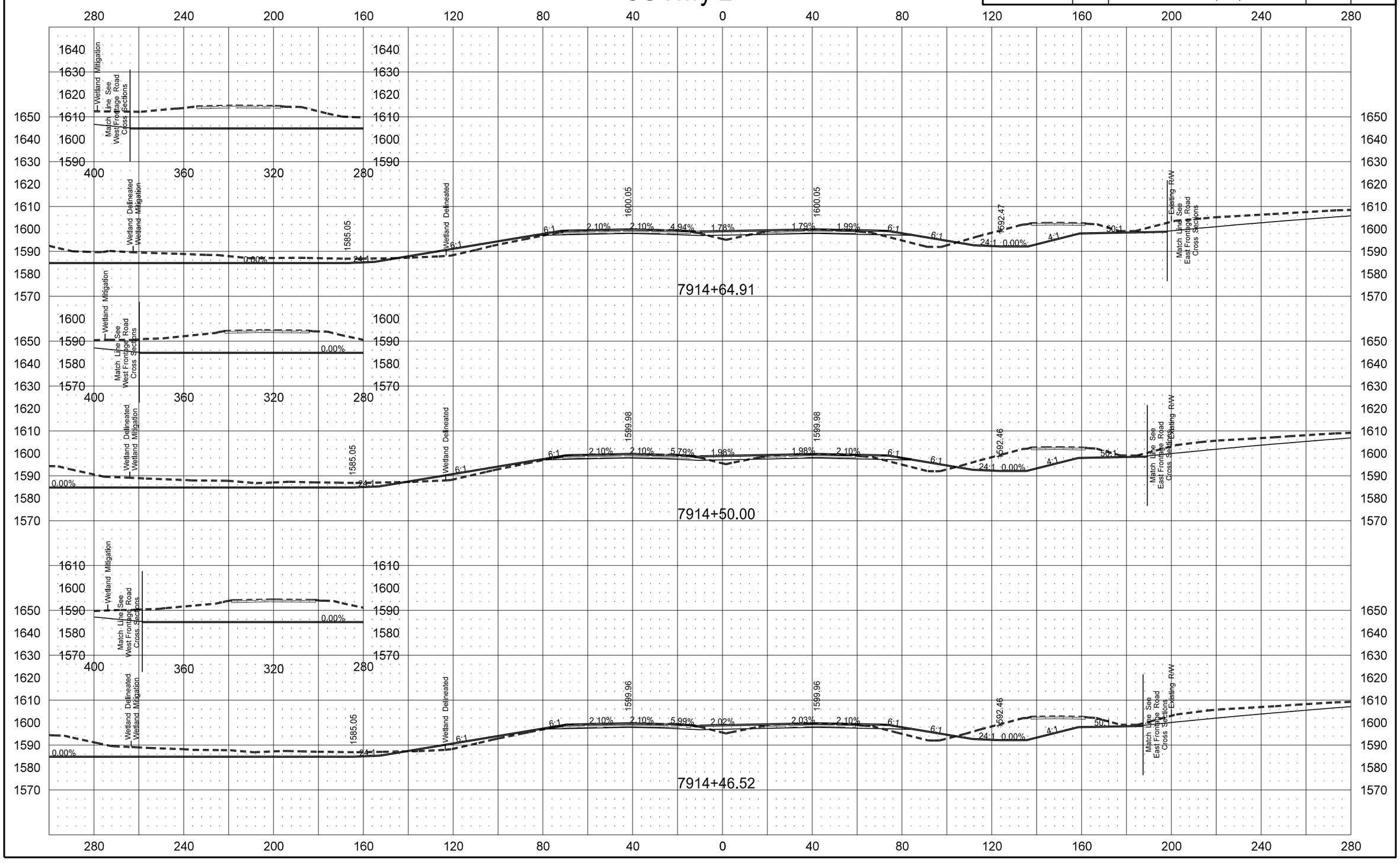
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	14

US Hwy 2



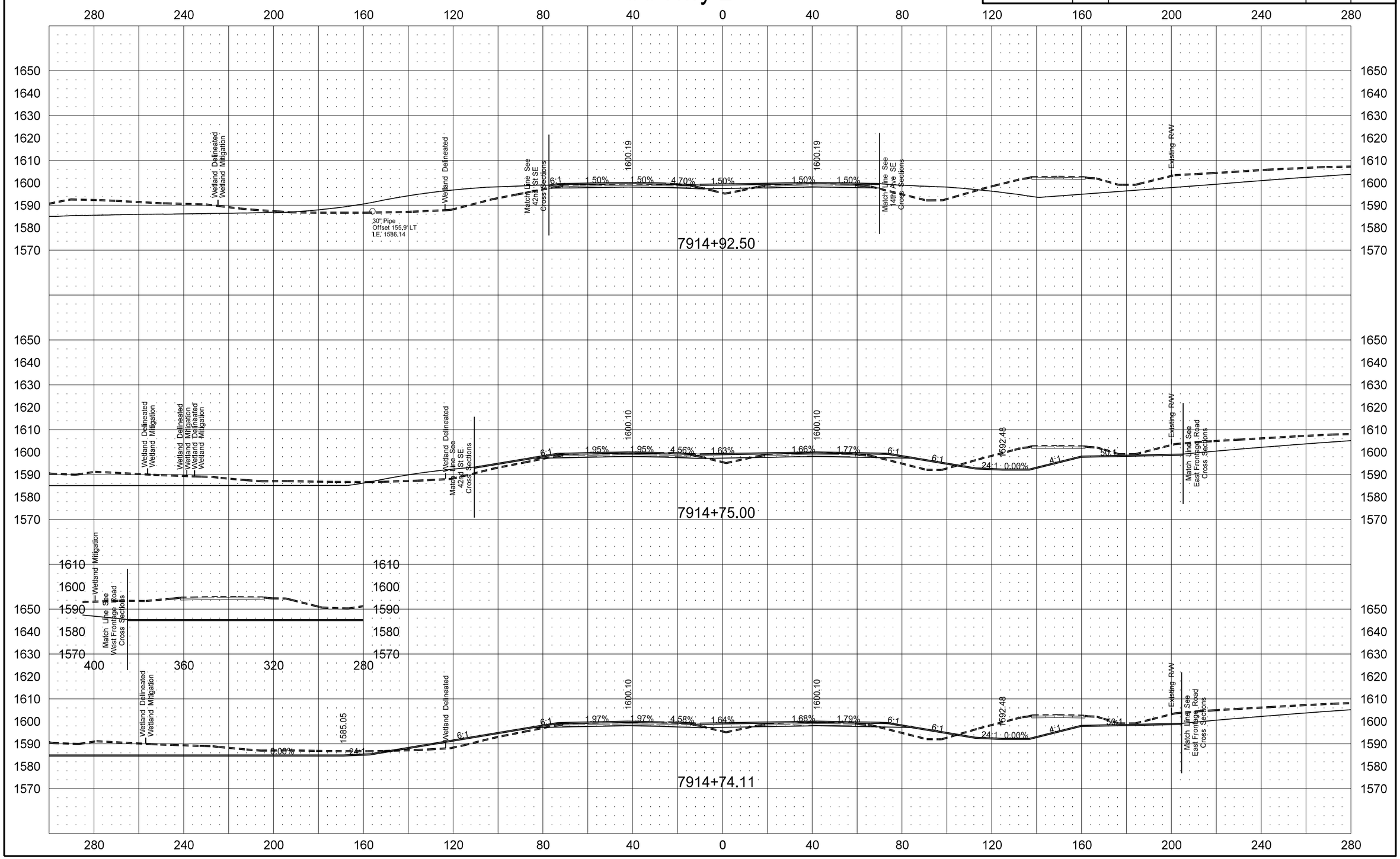
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	15

US Hwy 2



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	16

US Hwy 2



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	17

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing Non State R/W

Existing R/W

Wetland Delineated

30" Pipe
Offset 155.9' LT
I.E. 1586.44

Wetland Delineated

Match Line See 42nd St SE Cross Sections

1600.37

1.50% 1.50% 4.50% 1.50% 1.50% 1.50%

7915+27.59

Match Line See 14th Ave SE Cross Sections

1600.37

Inlet No. 5A
Top Elev. 1597.70

Inlet No. 5X
Top Elev. 1598.08

18 LF - 15" Pipe
Conduit @ 2.42%

I.E. = 1593.70

I.E. = 1593.26

Existing R/W

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing Non State R/W

Existing R/W

Wetland Delineated

30" Pipe
Offset 155.9' LT
I.E. 1586.44

Wetland Delineated

Match Line See 42nd St SE Cross Sections

1600.35

1.50% 1.50% 6.99% 1.50% 1.50% 1.50% 1.50%

7915+25.00

Match Line See 14th Ave SE Cross Sections

1600.35

42" Pipe
Offset 141.0' RT
I.E. 1592.51

Existing R/W

1650 1640 1630 1620 1610 1600 1590 1580 1570

Wetland Delineated

30" Pipe
Offset 155.9' LT
I.E. 1586.20

Wetland Delineated

Match Line See 42nd St SE Cross Sections

1600.23

6:1 1.50% 1.50% 4.91% 1.50% 1.50% 1.50%

7915+00.00

Match Line See 14th Ave SE Cross Sections

1600.23

Existing R/W

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	18

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing R/W
Wetland Delineated
30" Pipe
Offset 155.9' LT
I.E. 1567.06
Wetland Delineated
Match Line See
42nd St SE
Cross Sections
1600.73
1.50%
1.50%
1.50%
1.43%
1.50%
1600.73
Match Line See
14th Ave SE
Cross Sections
36" Pipe
Offset 141.0' RT
I.E. 1592.56
Existing R/W
18" Pipe
Offset 210.0' RT
I.E. 1595.44

7916+00.00

Existing R/W
Wetland Delineated
30" Pipe
Offset 155.9' LT
I.E. 1566.84
Wetland Delineated
Match Line See
42nd St SE
Cross Sections
1600.60
1.50%
1.50%
1.50%
1.50%
1600.60
1.50%
Match Line See
14th Ave SE
Cross Sections
Inlet No. 6A
Top Elev. 1599.23
42" Pipe
Offset 141.0' RT
I.E. 1592.54
I.E. = 1594.73
64 LF - 18" Pipe
Conduit @ 0.80%
Existing R/W
Inlet No. 7A
Top Elev. 1600.65
15" Pipe
Offset 210.0' RT
I.E. 1595.84
I.E. = 1595.25

7915+75.00

Existing R/W
Wetland Delineated
30" Pipe
Offset 155.9' LT
I.E. 1566.63
Wetland Delineated
Match Line See
42nd St SE
Cross Sections
1600.48
1.50%
1.50%
2.29%
1.49%
1600.48
1.50%
1.50%
Match Line See
14th Ave SE
Cross Sections
42" Pipe
Offset 141.0' RT
I.E. 1592.53
Existing R/W

7915+50.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	19

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing R/W
Wetland Delineated
Wetland Delineated
30" Pipe
Offset 155.9' LT
I.E. 1587.59
Match Line See
42nd St SE
Cross Sections
1.50%
1601.04
1.50%
1.50%
4.50%
1.50%
1601.04
1.50%
Match Line See
14th Ave SE
Cross Sections
Existing R/W

7916+62.43

Existing R/W
Wetland Delineated
Wetland Delineated
30" Pipe
Offset 155.9' LT
I.E. 1587.59
Match Line See
42nd St SE
Cross Sections
1.50%
1600.98
1.50%
1.50%
3.03%
1.50%
1600.98
1.50%
Match Line See
14th Ave SE
Cross Sections
Existing R/W
36" Pipe
Offset 141.0' RT
I.E. 1592.59

7916+50.00

Existing R/W
Wetland Delineated
Wetland Delineated
30" Pipe
Offset 155.9' LT
I.E. 1587.27
Match Line See
42nd St SE
Cross Sections
1.50%
1600.85
1.50%
1.50%
1.50%
1.50%
1600.85
1.50%
Match Line See
14th Ave SE
Cross Sections
Existing R/W
36" Pipe
Offset 141.0' RT
I.E. 1592.57
18" Pipe
Offset 210.0' RT
I.E. 1595.57
Inlet No. 8A
Top Elev. 1600.15
I.E. = 1595.87

7916+25.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	20

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

Existing R/W

Wetland Delineated

Match Line See 42nd St SE Cross Sections

Wetland Delineated

6:1

1601.10

1.78%

1.66%

1.66%

5.64%

1.91%

1.91%

1601.10

Match Line See 14th Ave SE Cross Sections

Existing R/W

7916+75.00

Existing R/W

Wetland Delineated

Match Line See 42nd St SE Cross Sections

Wetland Delineated

6:1

1601.10

Inlet No. 2A
Top Elev. 1600.00

Inlet No. 1A
Top Elev. 1600.53

1.75%

1.65%

1.65%

5.69%

1.88%

1.88%

1601.10

9 LF - 15" Pipe
Conduit @ 0.50%

18" Pipe
Offset 23.2' RT
I.E. 1594.96

I.E. = 1595.46

I.E. = 1595.42

Match Line See 14th Ave SE Cross Sections

Existing R/W

7916+74.00

Wetland Delineated

Wetland Delineated

Match Line See 42nd St SE Cross Sections

1600.93

1601.15

Inlet No. 1A
Top Elev. 1600.53

1.56%

1.10%

1.31%

4.99%

2.03%

1.63%

7:1

6:1

1592.64

26:1

0.00%

4:1

50:1

Existing R/W

Match Line See East Frontage Road Cross Sections

30" Pipe
Offset 175.7' LT
I.E. 1586.90

15" Pipe
Offset 15.5' RT
I.E. 1595.46

I.E. = 1594.99

93 LF - 18" Pipe
Conduit @ 1.70%

I.E. = 1593.40

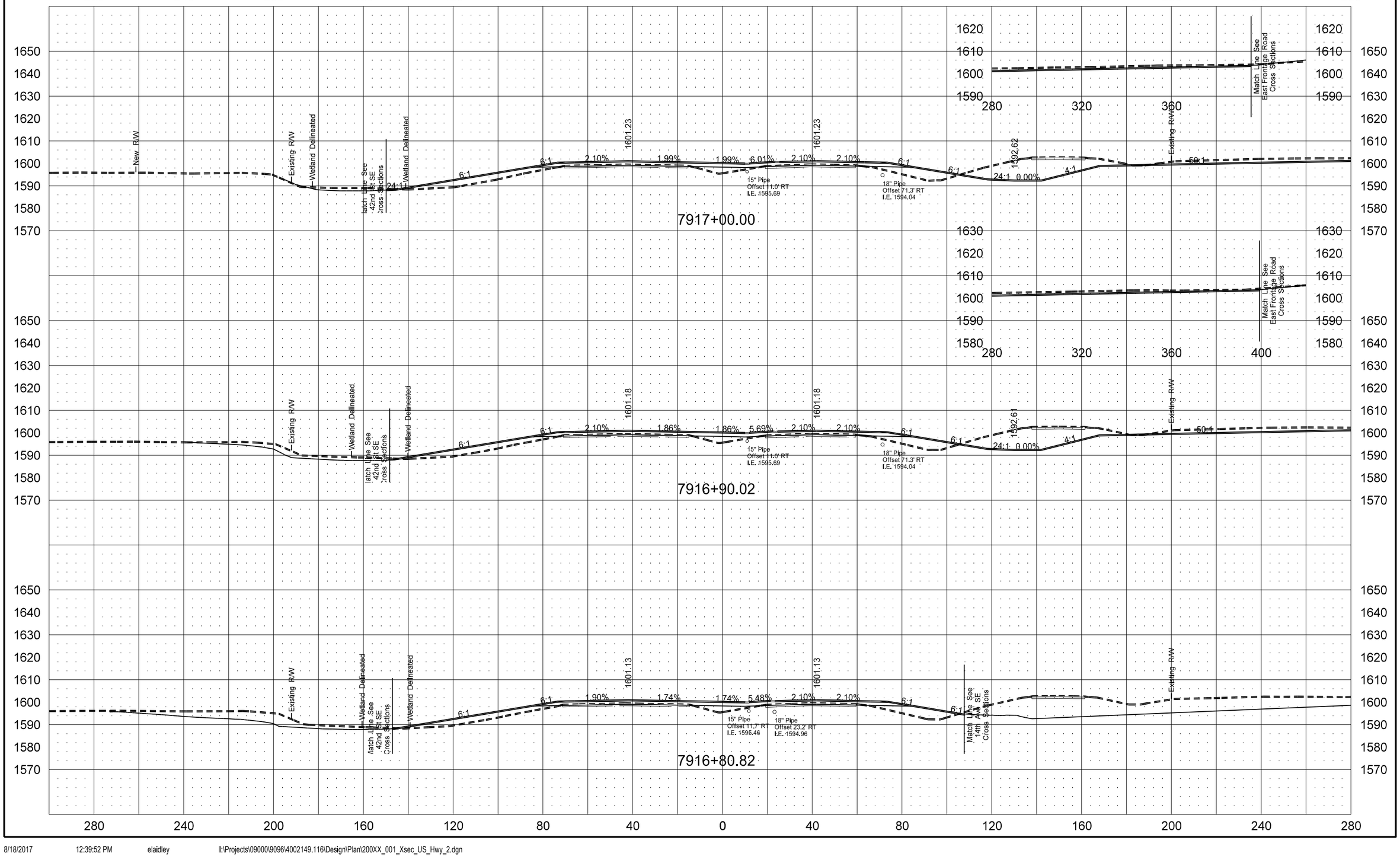
7916+62.95

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580 1570

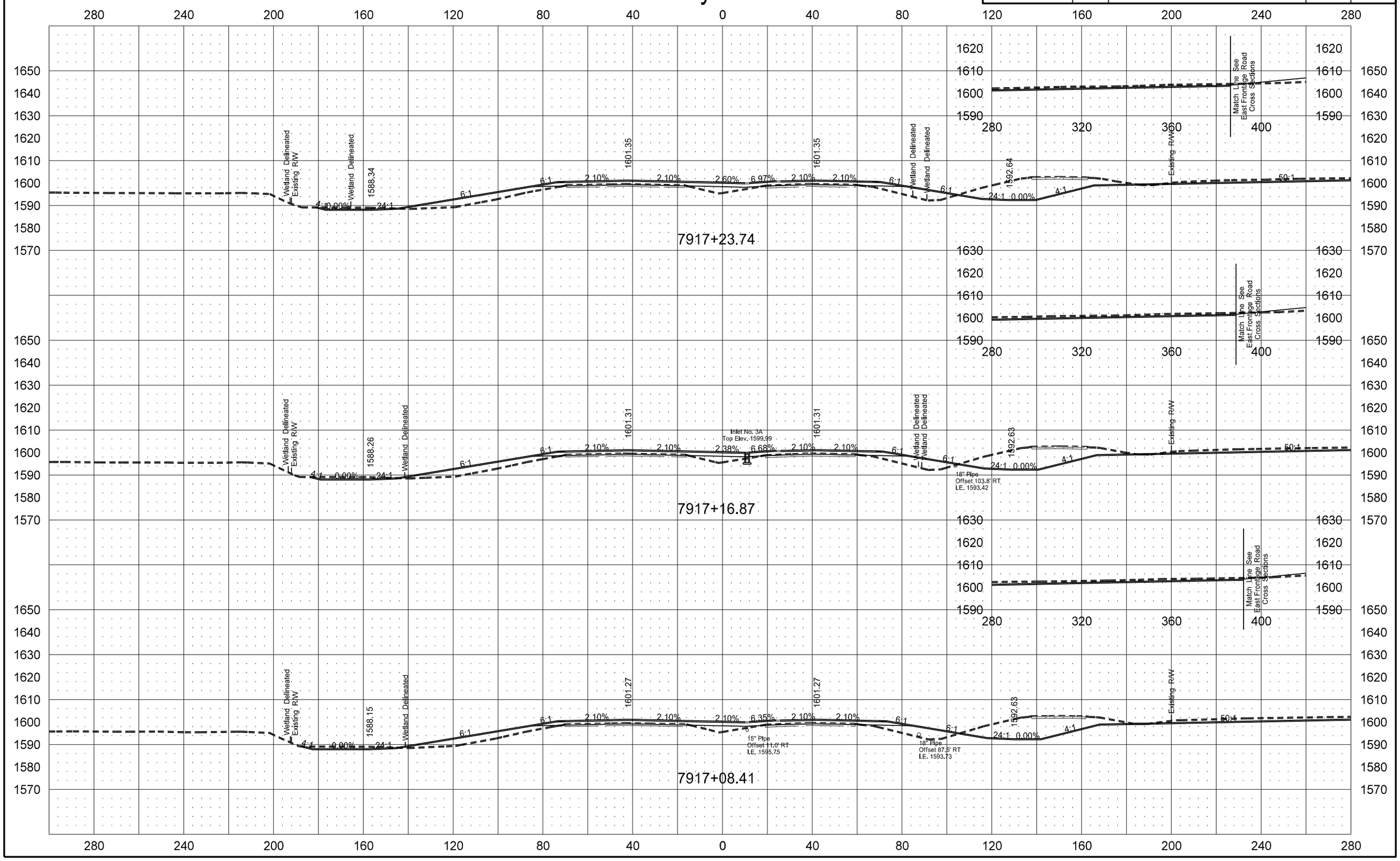
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	21

US Hwy 2



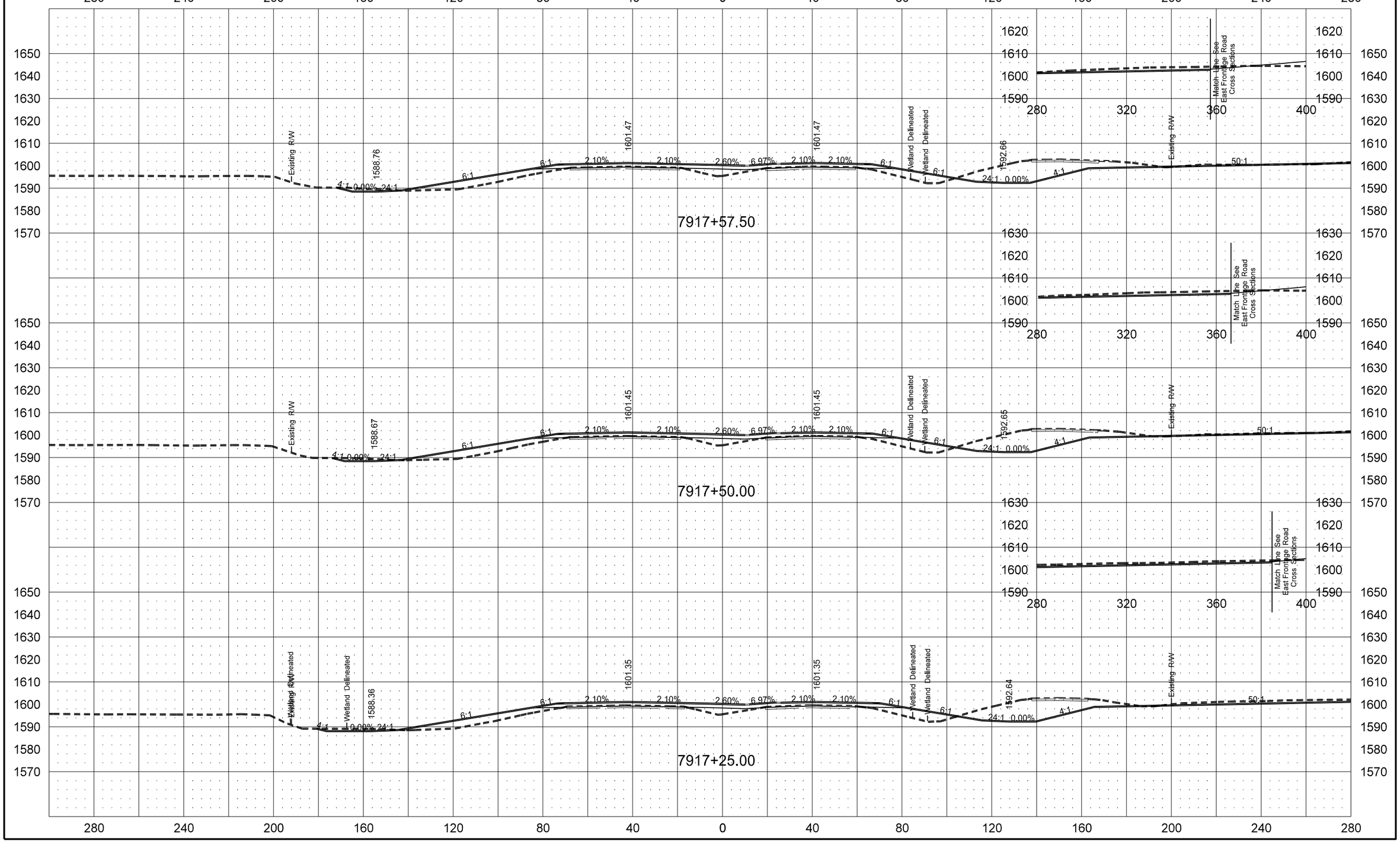
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	22

US Hwy 2



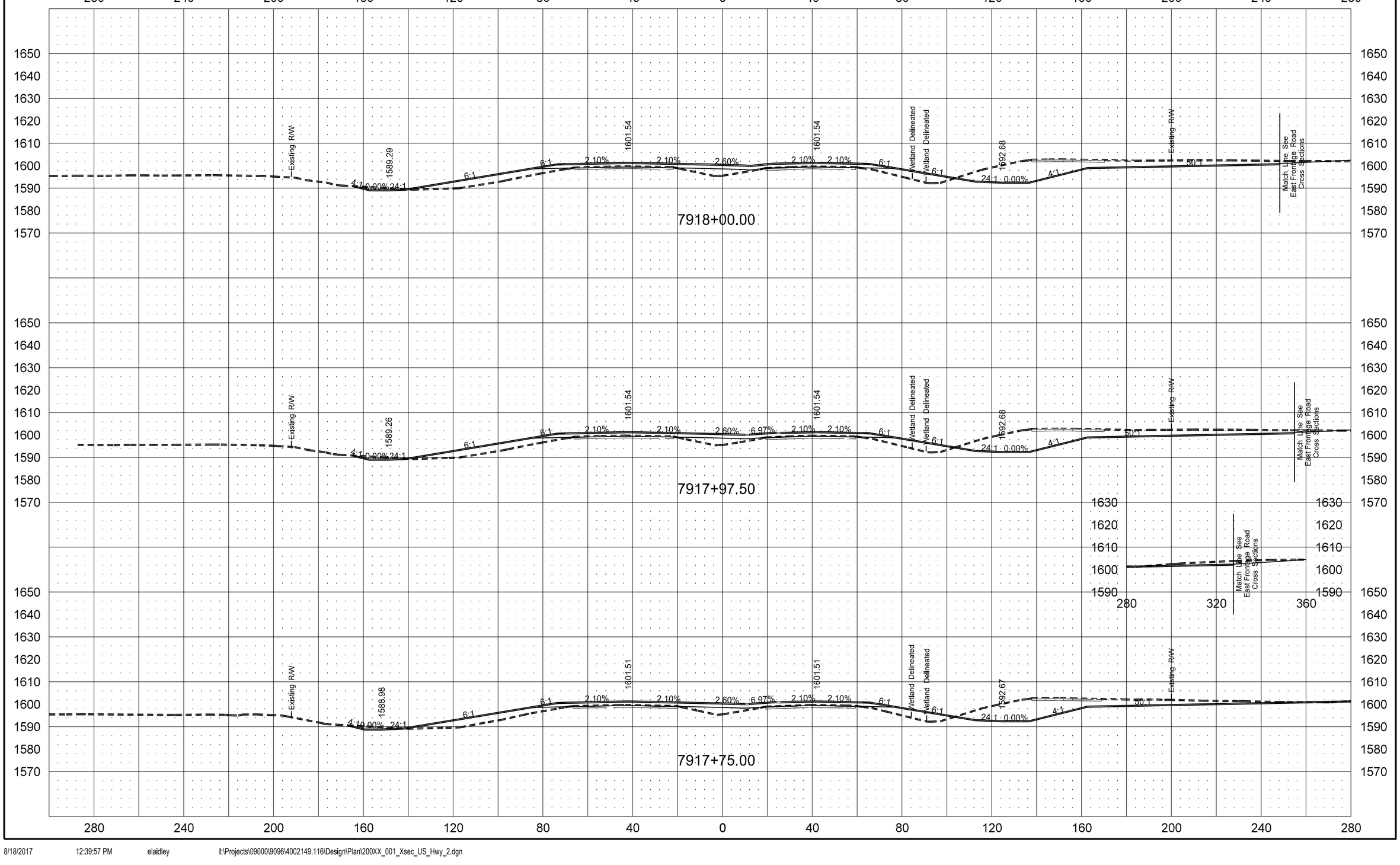
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	23

US Hwy 2



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	24

US Hwy 2



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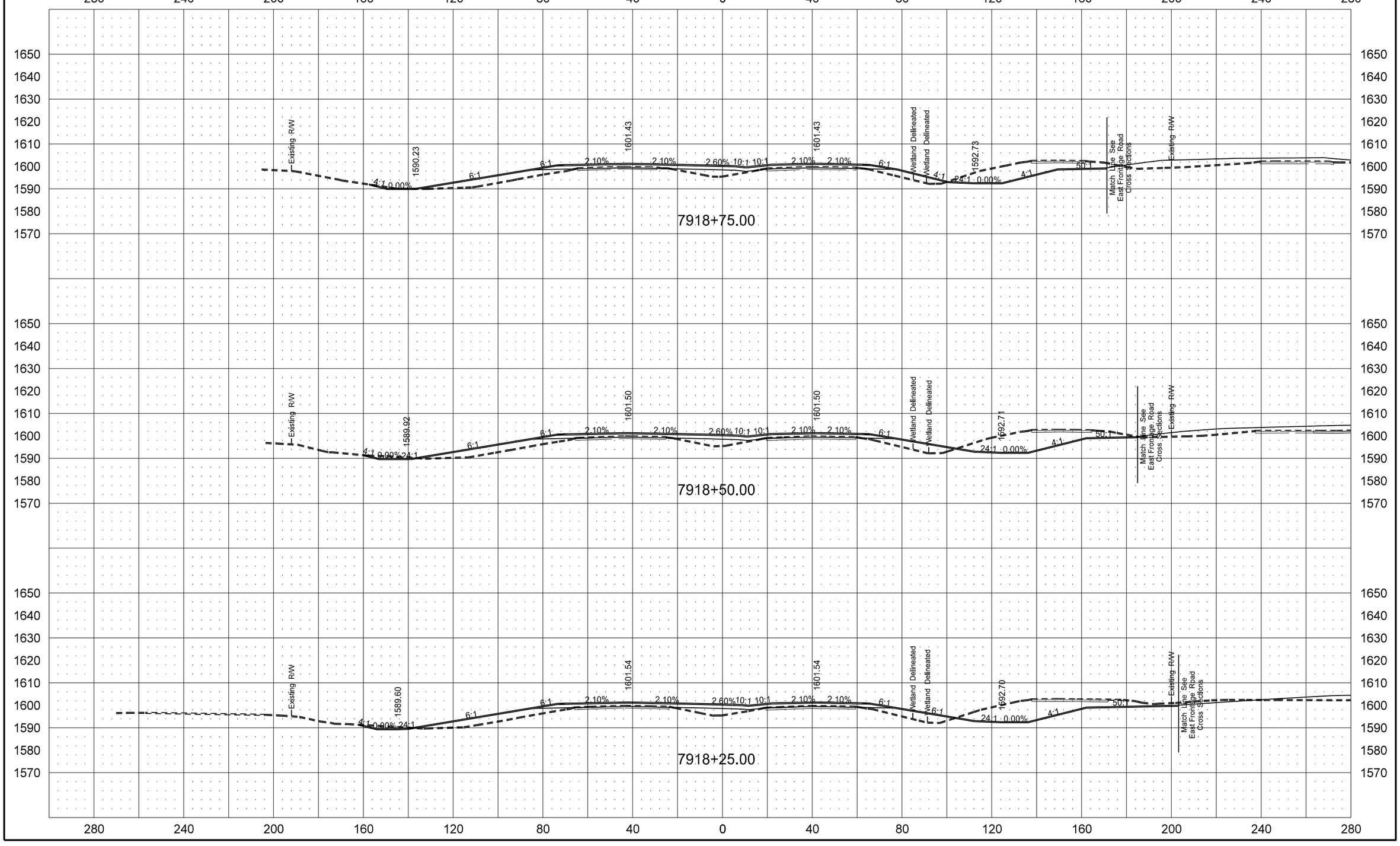
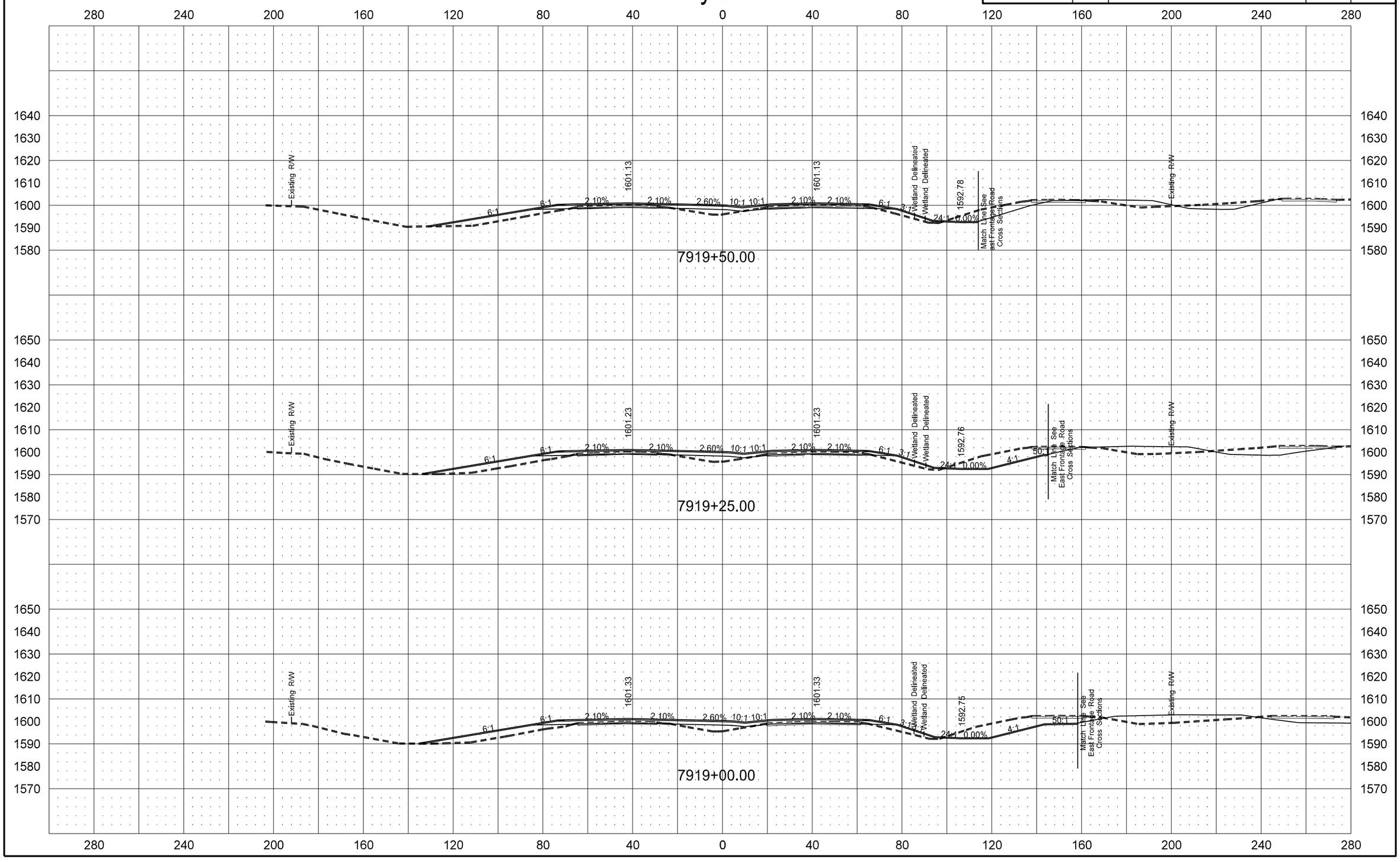
US Hwy 2

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	25



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	26

US Hwy 2



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	27

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1650 1640 1630 1620 1610 1600 1590 1580

Existing R/W
6:1
6:1
2.10%
1601.01
2.10%
2.60%
10:1 10:1
2.10%
1601.01
2.10%
6:1
Wetland Delineated
Wetland Delineated
24:1
1592.80
Match Line See
ast Frontage Road
Cross Sections
Existing R/W

7919+80.77

7919+75.00

7919+74.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	28

US Hwy 2

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1640 1630 1620 1610 1600 1590 1580

Existing R/W
Wetland Delineated
Wetland Delineated
6:1
6:1
2.10%
1600.77
2.10%
2.28%
2.60%
2.23%
6:1
6:1
2.10%
1600.74
2.10%
6:1
Wetland Delineated
Wetland Delineated
24:1
Match Line See
ast Frontage Road
Cross Sections
Existing R/W

7920+50.00

Existing R/W
6:1
6:1
2.10%
1600.84
2.10%
2.60%
6:1
6:1
2.10%
1600.83
2.10%
6:1
Wetland Delineated
Wetland Delineated
24:1
Match Line See
ast Frontage Road
Cross Sections
Existing R/W

7920+25.00

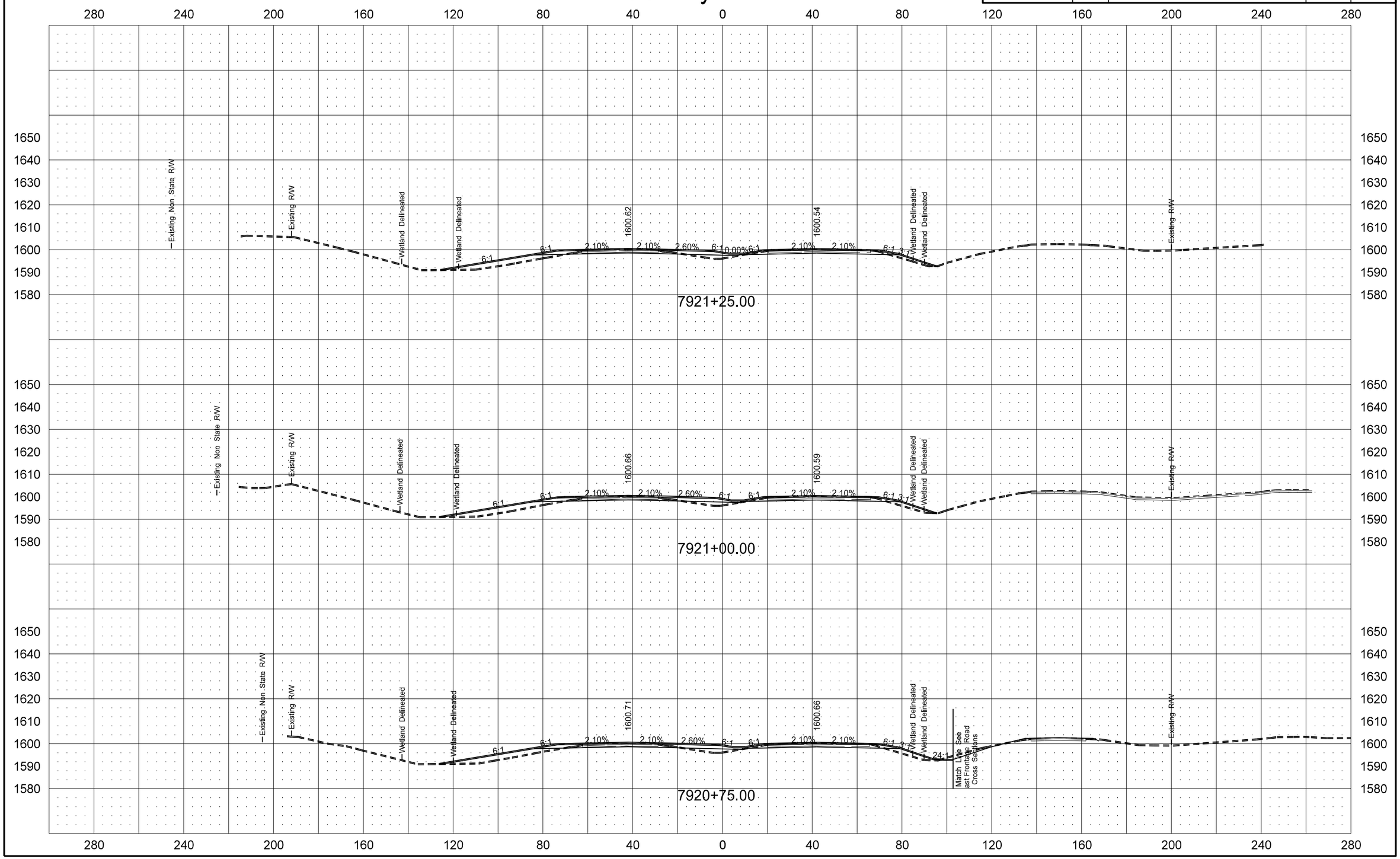
Existing R/W
6:1
6:1
2.10%
1600.93
2.10%
2.60%
6:1
6:1
2.10%
1600.93
2.10%
6:1
Wetland Delineated
Wetland Delineated
24:1
Match Line See
ast Frontage Road
Cross Sections
Existing R/W

7920+00.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

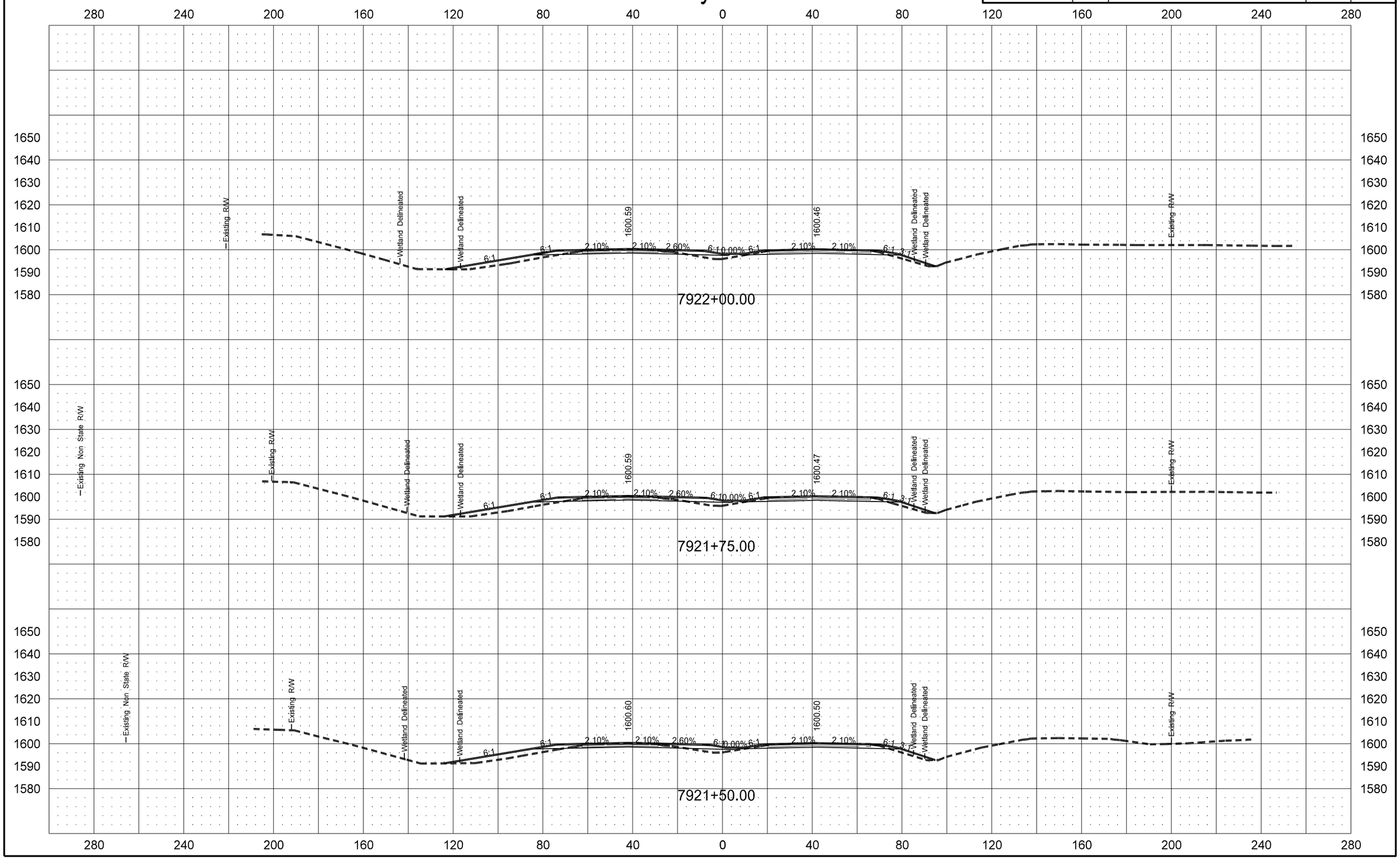
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	29

US Hwy 2



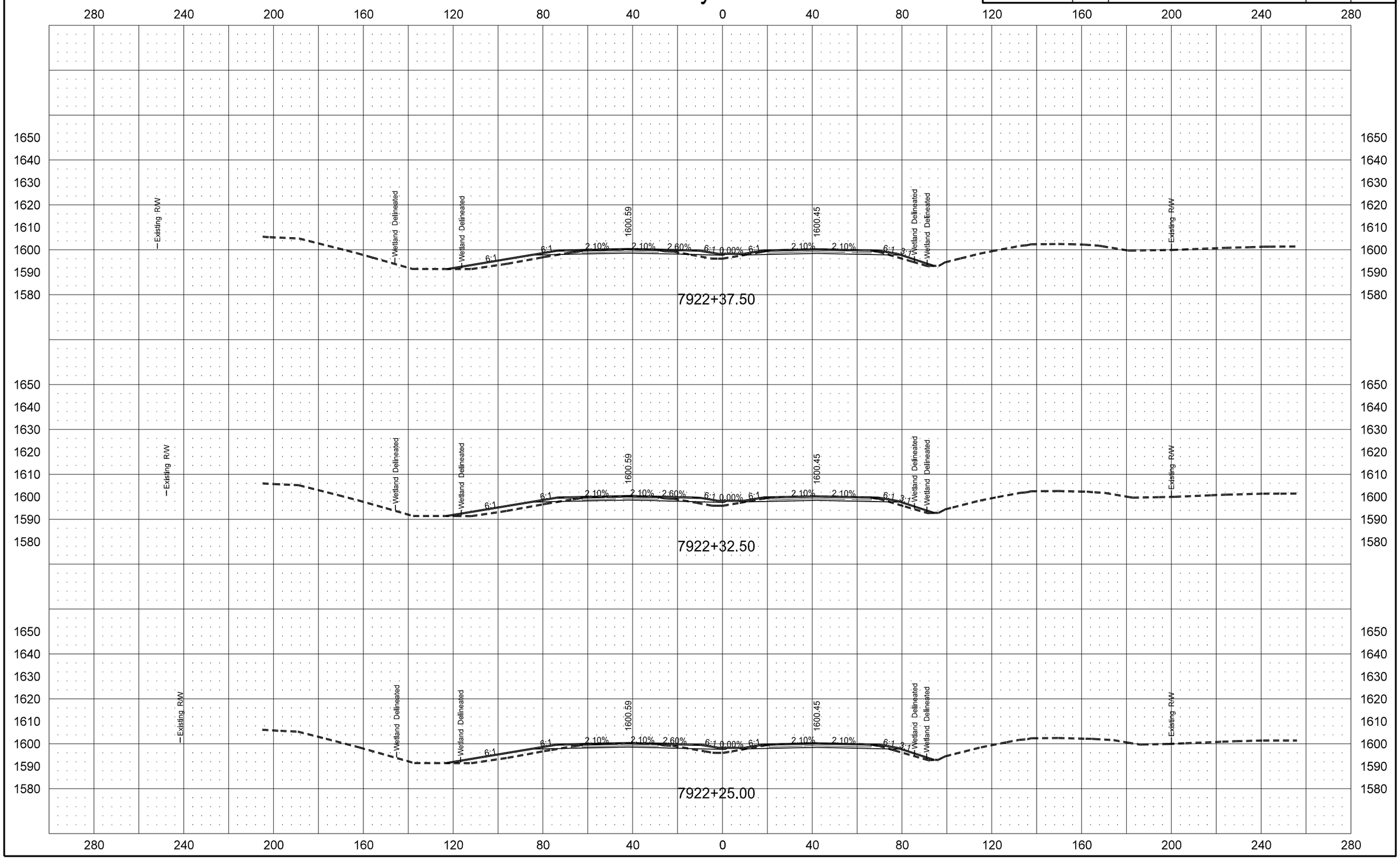
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	30

US Hwy 2



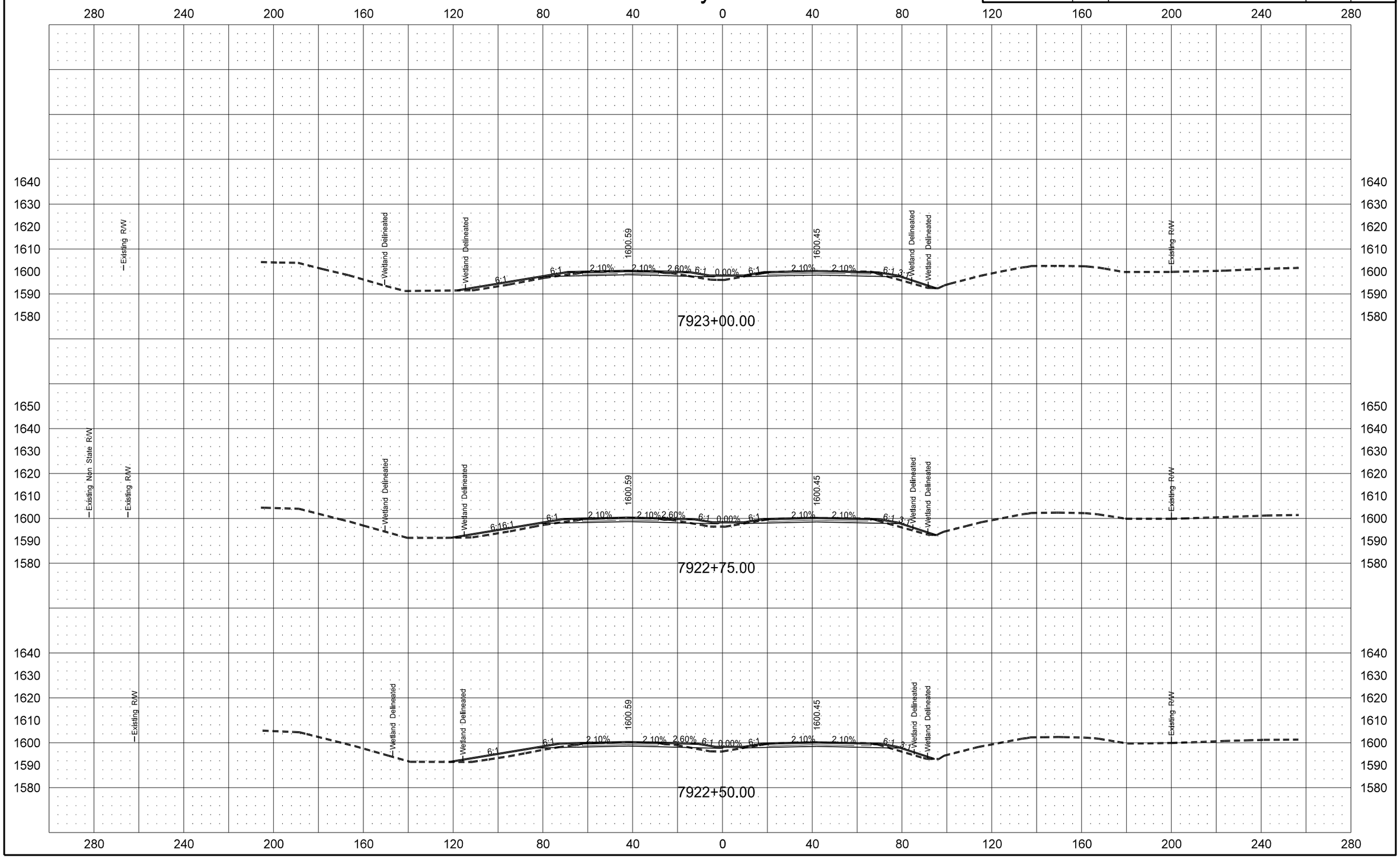
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	31

US Hwy 2



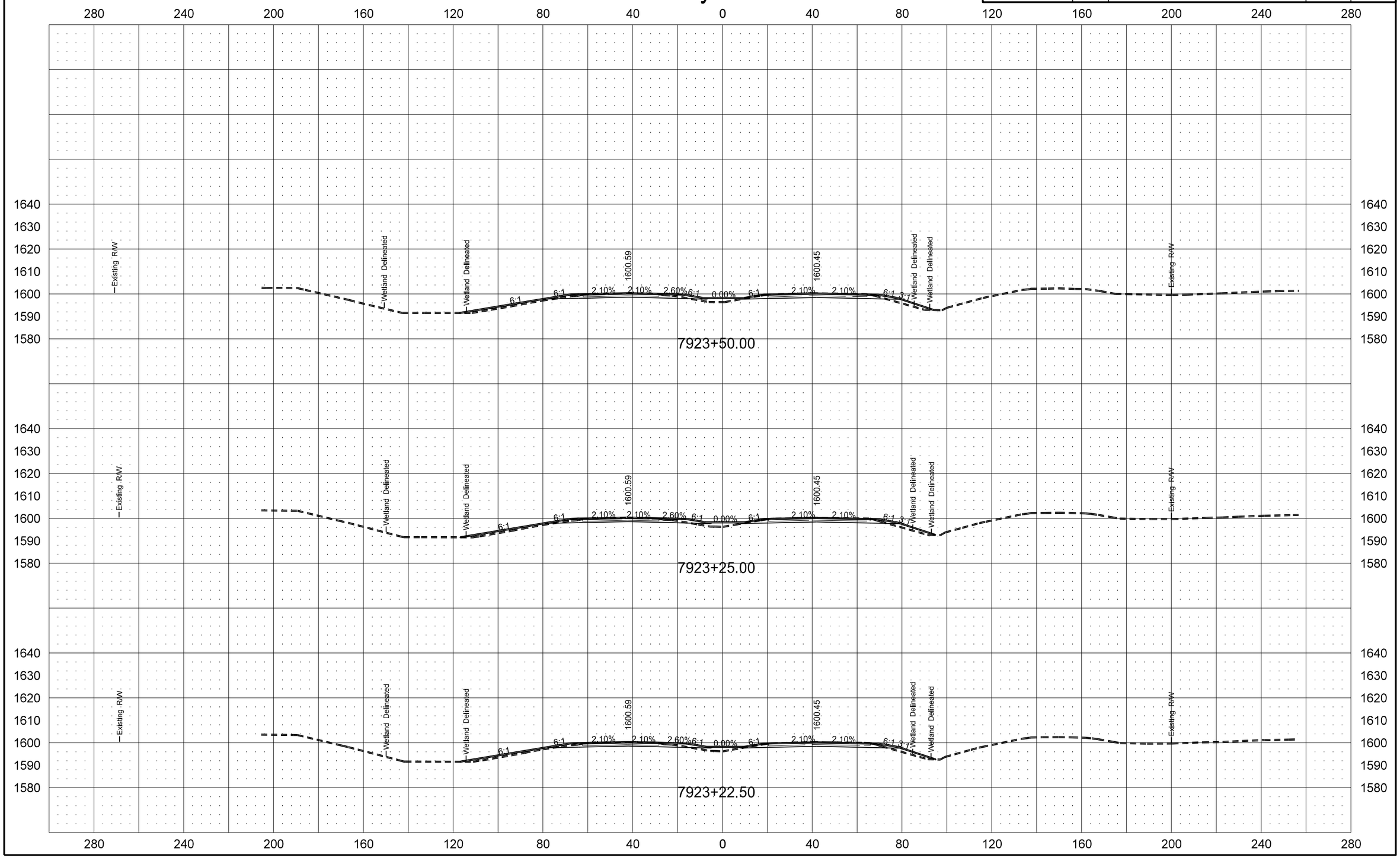
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	32

US Hwy 2



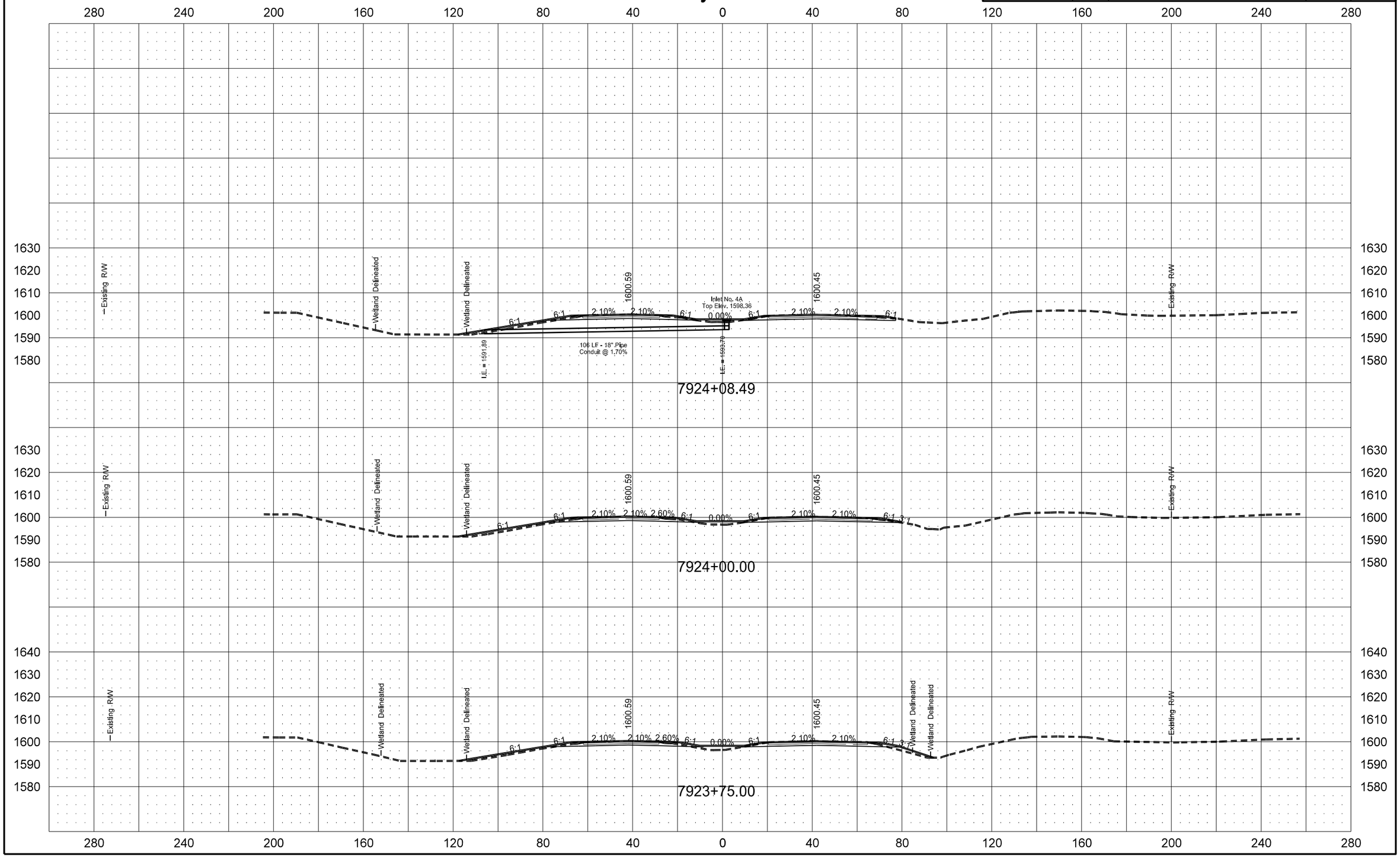
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	33

US Hwy 2



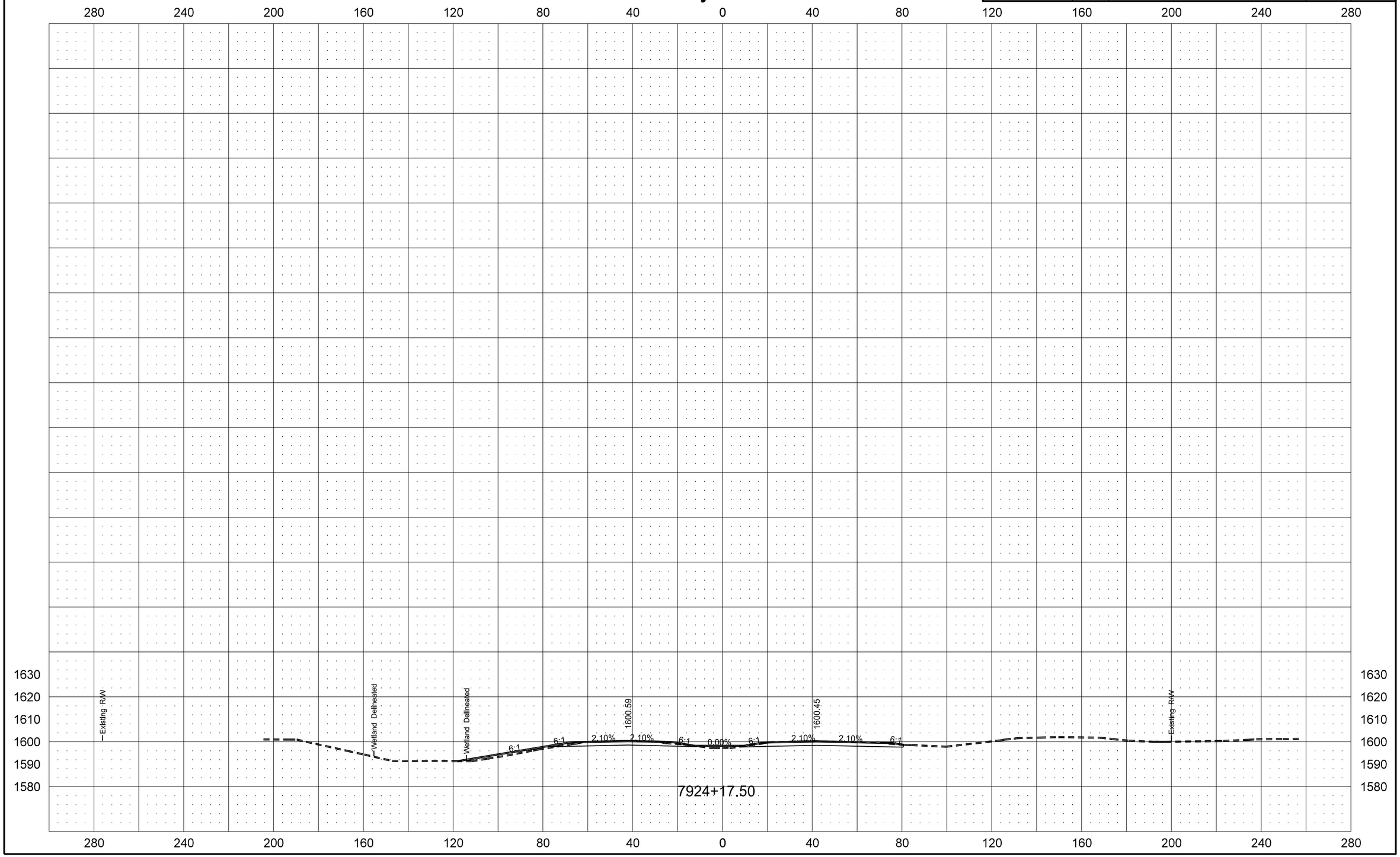
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	34

US Hwy 2



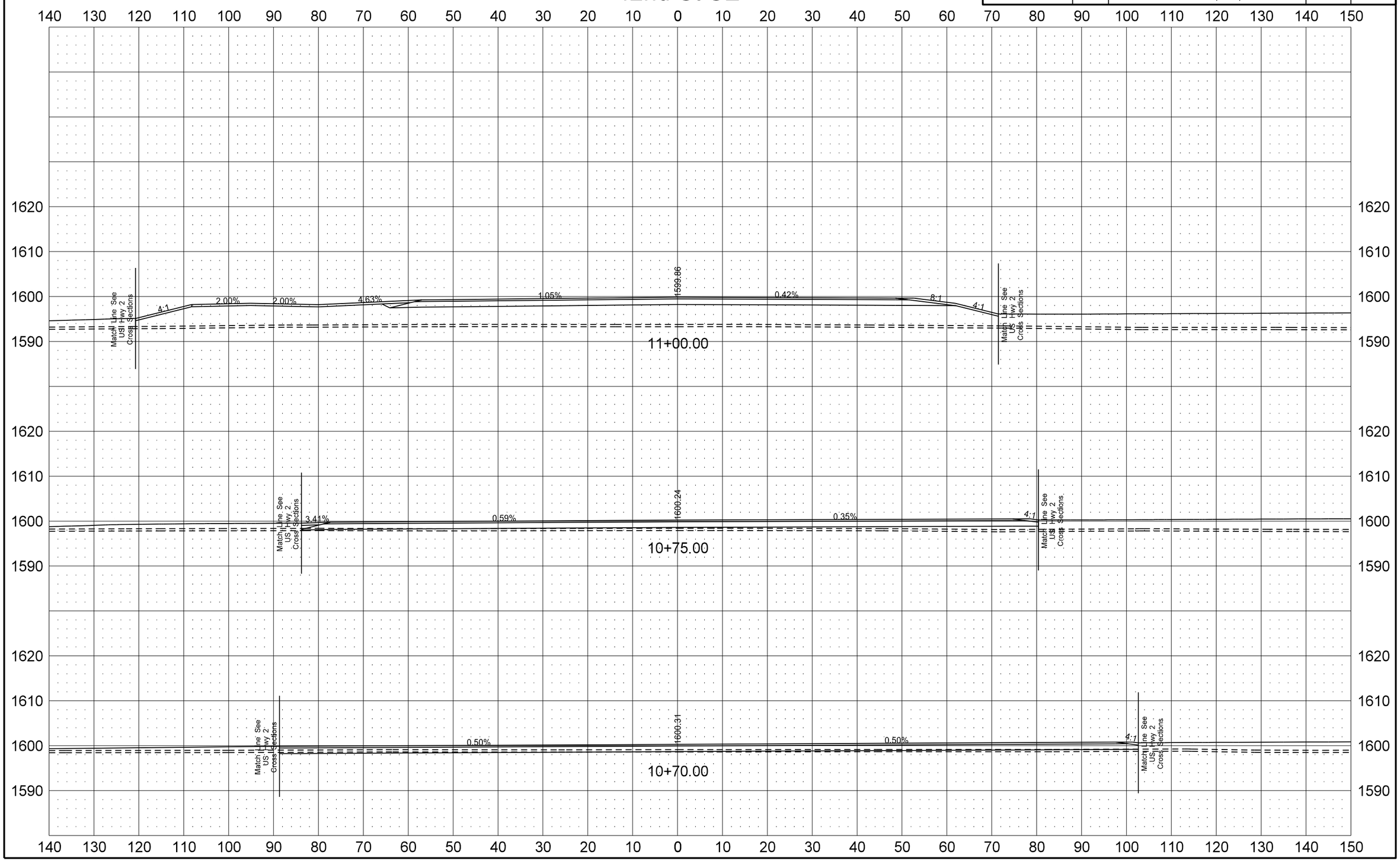
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	35

US Hwy 2



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	36

42nd St SE



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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	37

42nd St SE

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

1620 1610 1600 1590 1580

599.11

2.00% 1.11% 5.15% 1.97% 4.85% 2.10% 2.10%

4:1 4:1

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

11+50.00

599.36

2.00% 1.41% 6.47% 1.66% 1.43%

4:1 4:1 4:1

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

Match Line See US Hwy 2 Cross Sections

11+33.00

599.48

2.00% 1.55% 6.60% 1.51% 1.18%

4:1 5:1 4:1

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

11+25.00

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

1620 1610 1600 1590 1580

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	38

42nd St SE

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

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

2.00% 0.56% 3.81% 2.16% 4.90% 2.10% 2.10%

4:1

1598.92

11+62.73

Wetland Delineated

Wetland Delineated

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

Inlet No. 11A
Top Elev. 1597.21

2.00% 1.00% 4.63% 2.07% 4.89% 2.10% 2.10%

1599.02

57 LF - 30" Pipe
Conduit @ 0.86%

I.E. = 1586.05

I.E. = 1586.54

I.E. = 1586.58

11+55.90

123 LF - 30" Pipe
Conduit @ 0.86%

I.E. = 1587.63

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

2.00% 1.07% 4.98% 2.00% 4.87% 2.10% 2.10%

1599.08

11+51.82

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	39

42nd St SE

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

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

4:1

2.00% 0.30% 2.79% 2.23% 4.90% 2.10%

1598.73

Wetland Delineated

11+75.00

4:1

24:1

0.00%

4:1

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

Wetland Delineated

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

4:1

2.00% 0.17% 3.27% 2.23% 4.90% 2.10% 2.10%

1598.84

Wetland Delineated

11+68.18

4:1

24:1

0.00%

4:1

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

Wetland Delineated

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

4:1

2.00% 0.35% 3.51% 2.19% 4.90% 2.10% 2.10%

1598.88

Wetland Delineated

185 LF - 36" Pipe
Conduit @ 0.86%

11+65.56

Inv = 1586.05

Inv = 1587.63

4:1

24:1

0.00%

4:1

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

Wetland Delineated

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	40

42nd St SE

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

1620 1610 1600 1590 1580

Wetland Delineated
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections
Wetland Mitigation
4:1
2.00%
Existing R/W
2.48%
1597.86
4.90%
2.10%
4:1
0.00%
4:1
New R/W

12+33.00

Wetland Delineated
Wetland Mitigation
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections
4:1
2.00%
Existing R/W
2.48%
1597.98
4.90%
2.10%
4:1
0.00%
4:1
New R/W

12+25.00

Match Line See US Hwy 2 Cross Sections
4:1
Wetland Delineated
2.00%
2.23%
Existing R/W
1598.36
4.90%
2.10%
4:1
0.00%
4:1
New R/W

12+00.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	41

42nd St SE

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

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

Wetland Mitigation

Existing R/W

State R/W

4:1

2.00%

2.10%

1597.13

0.53%

2.10%

0.35%

New R/W

18" Pipe
Offset 70.0' RT
I.E. 1590.64

12+83.00

Match Line See US Hwy 2 Cross Sections

Wetland Mitigation

Existing R/W

4:1

2.00%

2.32%

1597.24

1.23%

2.10%

4:1

0.00%

4:1

New R/W

18" Pipe
Offset 69.7' RT
I.E. 1590.60

12+75.00

Match Line See US Hwy 2 Cross Sections

Wetland Delineated Wetland Mitigation

Wetland Mitigation

Existing R/W

4:1

2.00%

2.34%

1597.61

3.41%

2.10%

4:1

0.00%

4:1

New R/W

18" Pipe
Offset 67.5' RT
I.E. 1590.48

12+50.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	42

42nd St SE

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

1620 1610 1600 1590 1580

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

Existing Non State R/W

New R/W

Inlet No. 12A
Top Elev. 1595.78

1596.79

2.00% 2.10% 3.50% 2.10%

4:1

PR42 Sta. 13+26.00
Offset 91.74' LT
I.E. 1586.29

I.E. = 1586.29

49 LF - 18" Pipe
Conduit @ 6.00%

I.E. = 1589.24

13+26.16

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

Existing Non State R/W

New R/W

1596.80

2.00% 2.10% 3.50% 2.10%

4:1

18" Pipe
Offset 69.9' RT
I.E. 1590.85

13+25.00

Match Line See US Hwy 2 Cross Sections

Existing Non State R/W

New R/W

1596.95

2.00% 2.10% 0.96% 2.10% 0.70%

4:1

18" Pipe
Offset 70.4' RT
I.E. 1590.72

13+00.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	43

42nd St SE

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

1620 1610 1600 1590 1580

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

4:1

2.00% 2.10% 3.50% 2.10%

1596.77

Existing Non State R/W

New R/W

13+39.03

18" Pipe
Offset 69.0' RT
I.E. 1590.92

Inlet No. 12A
Top Elev. 1595.78

Inlet No. 13A
Top Elev. 1596.02

1.97% 2.05% 3.41% 2.08%

1596.78

70 LF - 15" Pipe
Conduit @ 0.50%

I.E. = 1591.05

I.E. = 1591.40

13+33.05

18" Pipe
Offset 69.7' RT
I.E. 1590.96

1596.79

15" Pipe
Offset 22.9' LT
I.E. 1591.14

13+29.00

18" Pipe
Offset 69.7' RT
I.E. 1590.87

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	44

42nd St SE

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

1620 1610 1600 1590 1580

Match Line See West Frontage Road Cross Sections

4:1

2.00% 2.10% 3.50% 2.10%

Existing Non State R/W

1596.92

13+75.00

Inlet No. 14A
Top Elev. 1595.66

15" Pipe
Offset 34.9' RT
I.E. 1591.66

New R/W

Wetland Mitigation

Match Line See US Hwy 2 Gross Sections

4:1

2.00% 2.10% 3.50% 2.10%

Existing Non State R/W

1596.79

13+50.00

15" Pipe
Offset 31.5' RT
I.E. 1591.55

18" Pipe
Offset 68.1' RT
I.E. 1590.97

New R/W

Wetland Mitigation

Match Line See US Hwy 2 Gross Sections

4:1

2.00% 2.10% 3.50% 2.10%

Existing Non State R/W

1596.78

13+43.00

15" Pipe
Offset 30.3' RT
I.E. 1591.51

18" Pipe
Offset 68.7' RT
I.E. 1590.94

New R/W

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	45

42nd St SE

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

1620 1610 1600 1590 1580

Existing Non State R/W

Match Line See West Frontage Road Cross Sections

2.10%

1597.29

14+25.00

15" Pipe
Offset 37.4' RT
I.E. 1591.89

18" Pipe
Offset 63.8' RT
I.E. 1592.26

New R/W

4:1

2.00%

1597.11

14+00.00

15" Pipe
Offset 36.9' RT
I.E. 1591.78

18" Pipe
Offset 65.0' RT
I.E. 1591.63

1597.08

13+96.49

15" Pipe
Offset 36.7' RT
I.E. 1591.76

18" Pipe
Offset 65.1' RT
I.E. 1591.55

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	46

42nd St SE

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

1620 1610 1600 1590 1580

New R/W

Existing Non State R/W

1597.86

2.00% 2.10% 2.10% 4:1 4:1 0.00%

15+00.00

15" Pipe
Offset 30.4' RT
I.E. 1592.23

Existing Non State R/W

New R/W

Existing Non State R/W

Match Line See West Frontage Road Cross Sections

1597.67

2.10% 2.10% 4:1 4:1 0.00%

14+75.00

15" Pipe
Offset 34.2' RT
I.E. 1592.12

Existing Non State R/W

18" Pipe
Offset 57.4' RT
I.E. 1593.55

New R/W

Existing Non State R/W

Match Line See West Frontage Road Cross Sections

1597.48

2.00% 2.10% 2.10% 2.00% 4:1

14+50.00

15" Pipe
Offset 36.6' RT
I.E. 1592.00

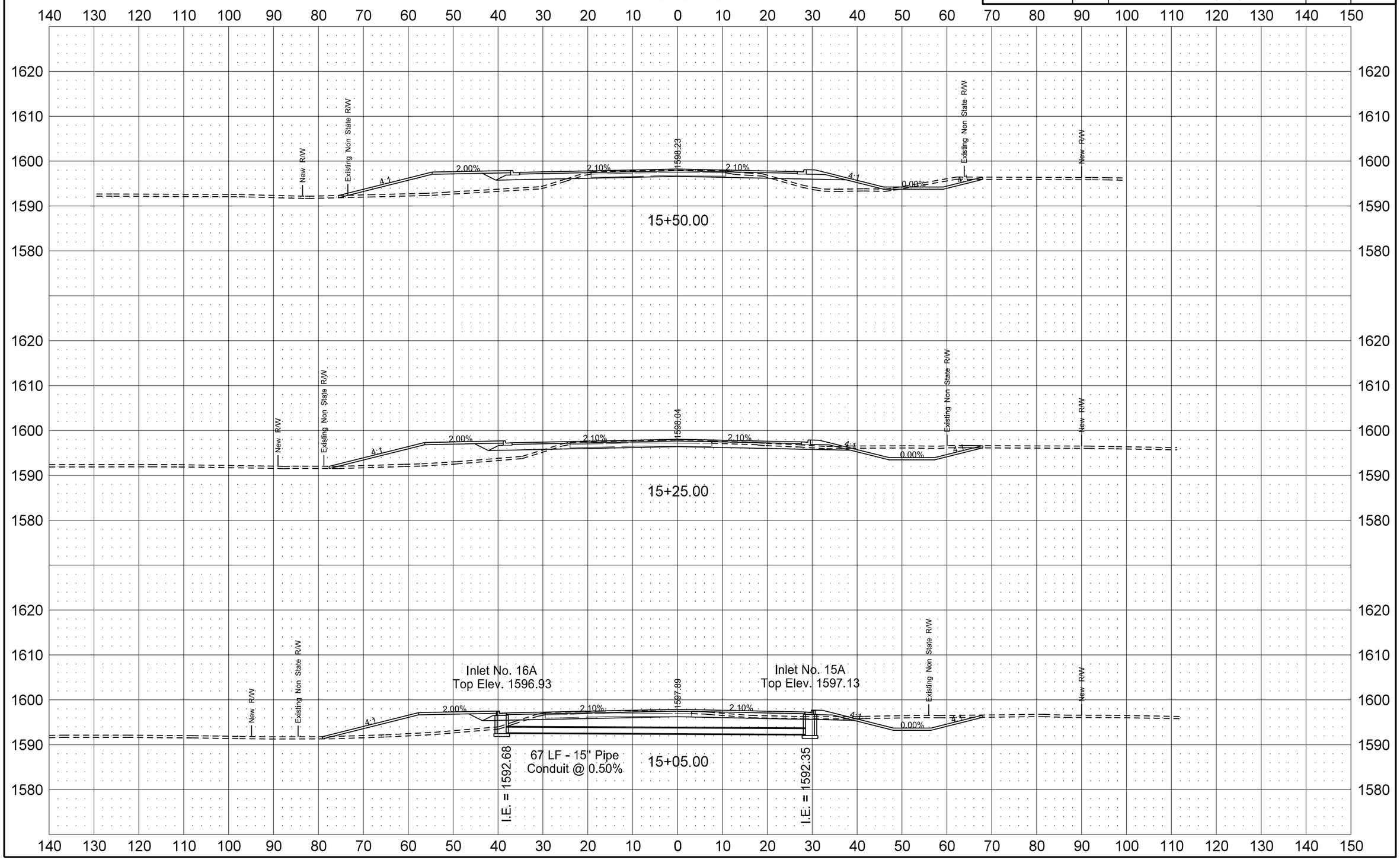
Existing Non State R/W

18" Pipe
Offset 61.3' RT
I.E. 1592.90

New R/W

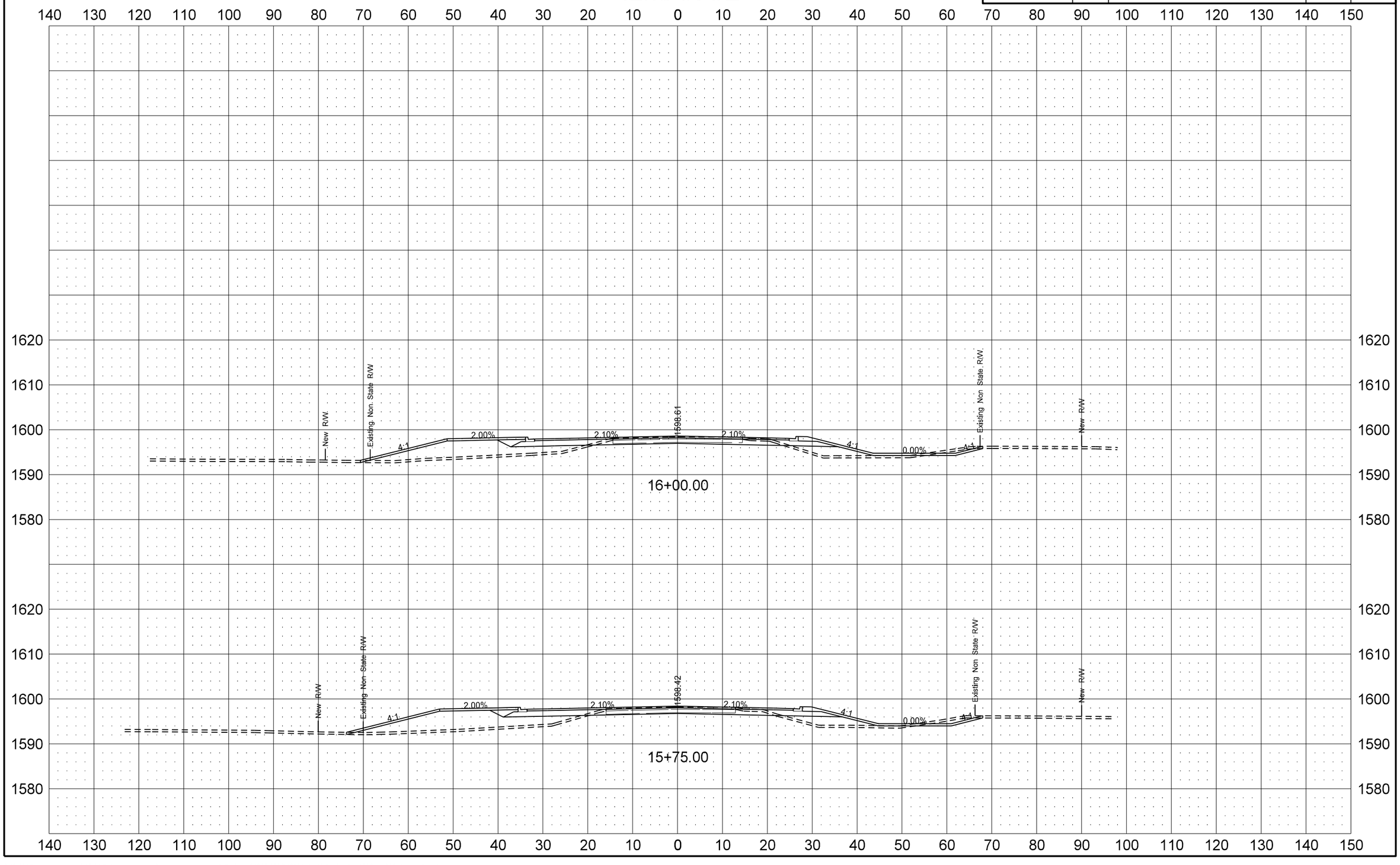
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	47

42nd St SE



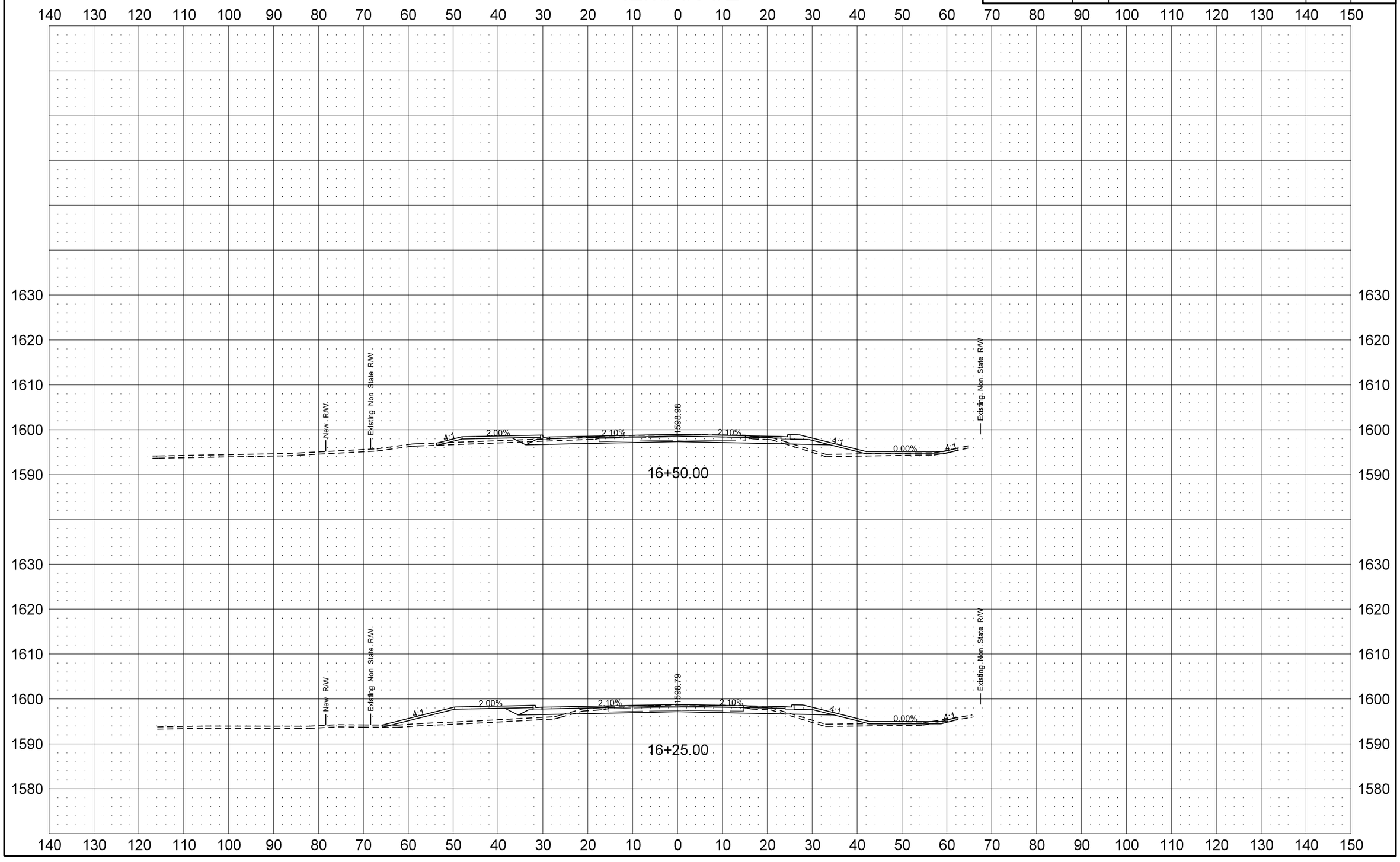
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	48

42nd St SE



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	49

42nd St SE

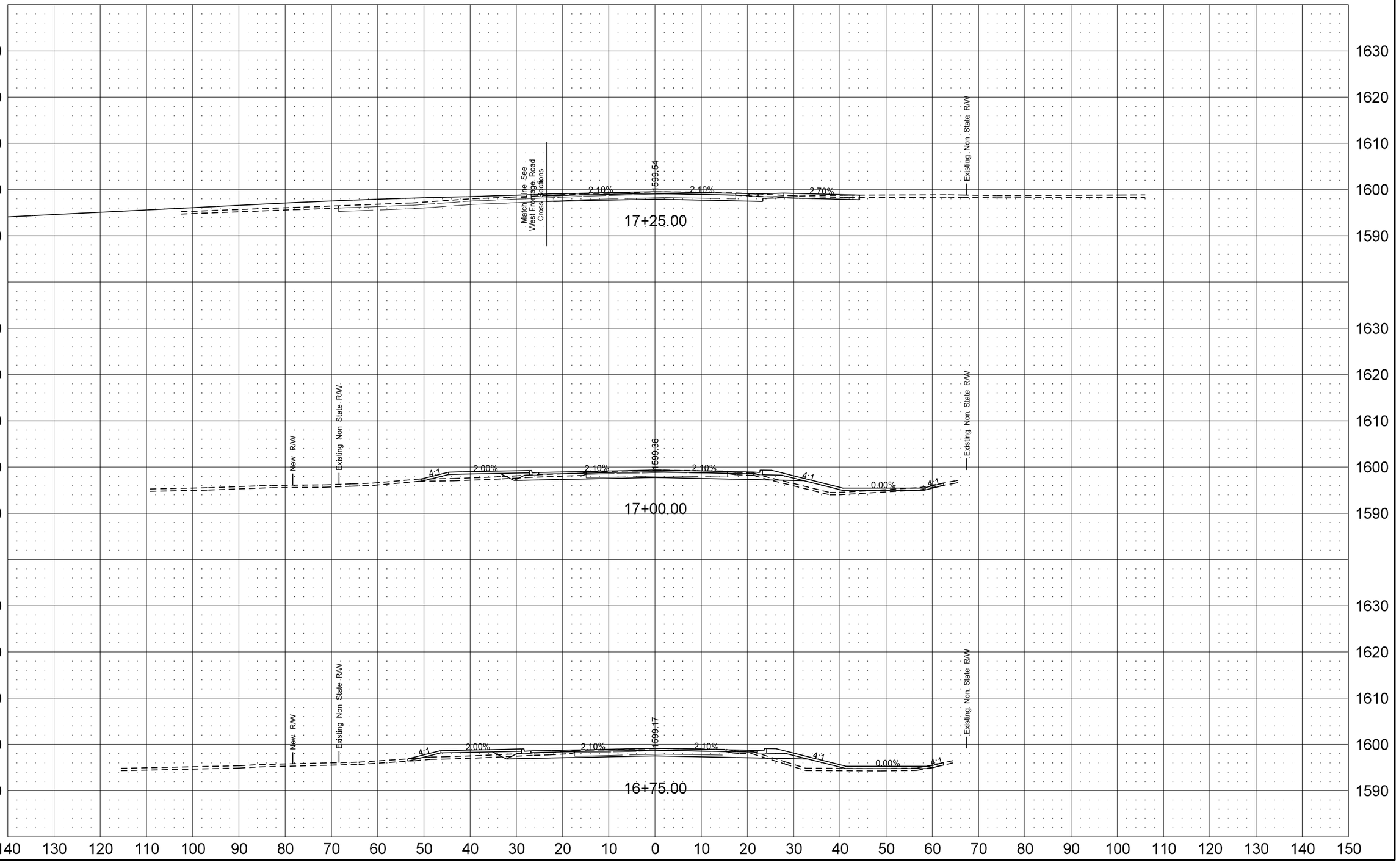


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	50

42nd St SE

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

1630 1620 1610 1600 1590



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	51

42nd St SE

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

1630 1620 1610 1600 1590

Existing Non State R/W

4:1 2.10% 1600.11 2.10% 4:1

Existing Non State R/W

18+00.00

Existing Non State R/W

Match Line See West Frontage Road Cross Sections

4:1 2.10% 1599.92 2.10% 4:1

Existing Non State R/W

17+75.00

Existing Non State R/W

Match Line See West Frontage Road Cross Sections

2.10% 1599.73 2.10% 4:1

Existing Non State R/W

17+50.00

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

1630 1620 1610 1600 1590

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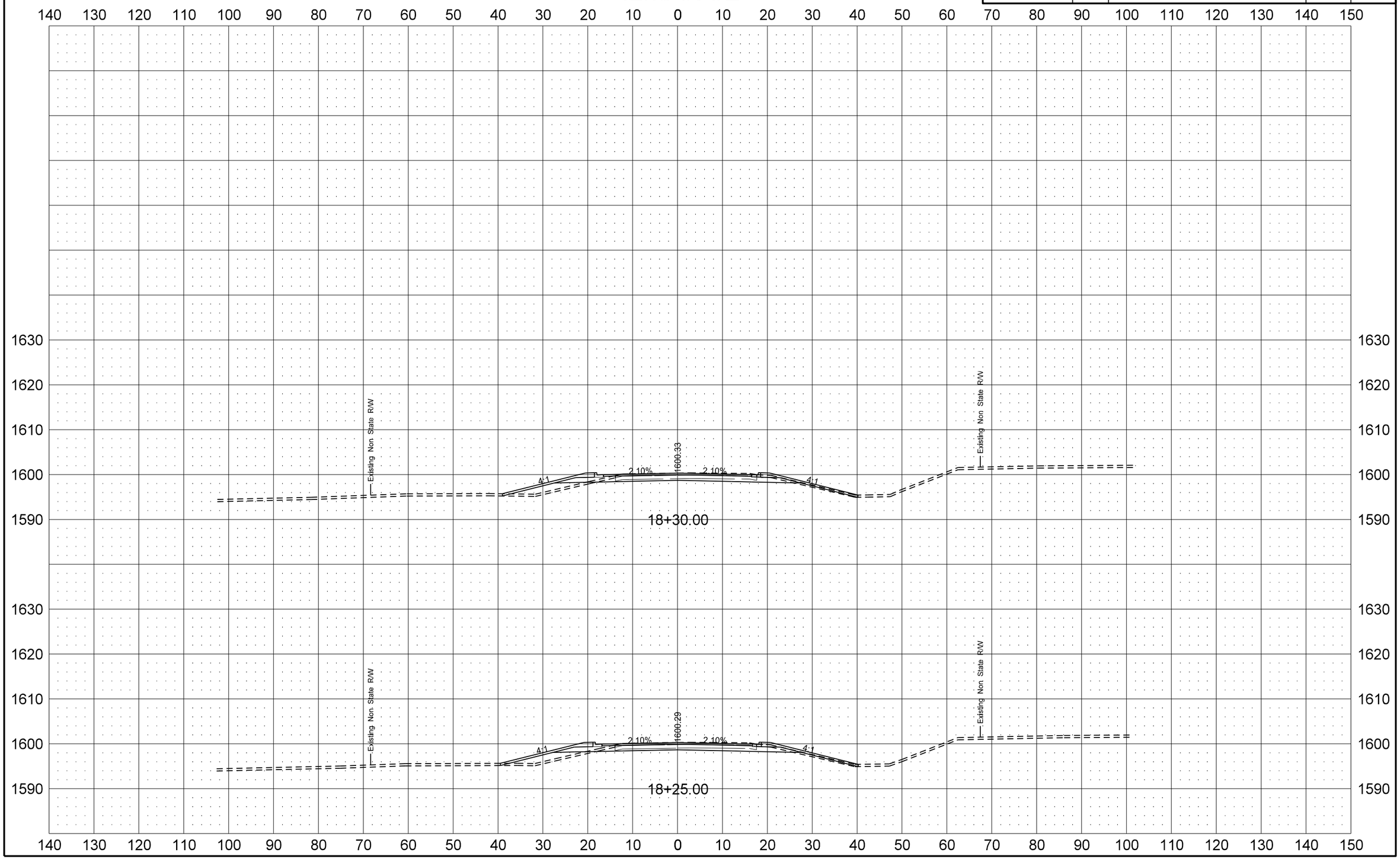
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	52

42nd St SE



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	53

14th Ave SE

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

1620
1610
1600
1590

18" Pipe
Offset 114.9' LT
I.E. 1593.49

Match Line See US Hwy 2 Cross Sections

8:1

0.23%

1599.86

1.23%

6.74%

0.55%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

6+00.00

18" Pipe
Offset 101.9' LT
I.E. 1593.97

Match Line See US Hwy 2 Cross Sections

8:1

0.38%

1600.24

0.62%

0.97%

Match Line See US Hwy 2 Cross Sections

5+75.00

18" Pipe
Offset 99.3' LT
I.E. 1594.07

Match Line See US Hwy 2 Cross Sections

8:1

0.50%

1600.31

0.50%

Match Line See US Hwy 2 Cross Sections

5+70.00

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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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	54

14th Ave SE

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

1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

6:1

1.20%

1599.64

3.07%

2.10%

2.10%

4.26%

0.40%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

6+40.32

1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

7:1

1.02%

1599.62

2.02%

4.45%

0.40%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

6+33.00

15" Pipe
Offset 70.0' RT
I.E. 1593.39

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

8:1

0.83%

1599.63

0.83%

4.44%

0.40%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

6+25.00

15" Pipe
Offset 70.0' RT
I.E. 1593.59

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	55

14th Ave SE

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

1620 / 1610 / 1600 / 1590

Match Line See US Hwy 2 Cross Sections

5:1 — 2.00% — 1600.04 — 2.81% — 2.10% — 2.78% — 0.40% — 2.00% — 4:1

6+73.42
18" Pipe
Offset 13.0' RT
I.E. 1594.97

Match Line See US Hwy 2 Cross Sections

Match Line See US Hwy 2 Cross Sections

5:1 — 1.43% — 1590.70 — 2.97% — 2.10% — 2.10% — 3.71% — 0.40% — 2.00% — 4:1

6+50.00
18" Pipe
Offset 13.0' RT
I.E. 1594.78

Match Line See US Hwy 2 Cross Sections

Inlet No. 6A
Top Elev. 1599.23

Inlet No. 5X
Top Elev. 1598.08

6:1 — 1.22% — 1589.65 — 3.06% — 2.10% — 2.10% — 4.22% — 0.40% — 2.00% — 4:1

68 LF - 36" Pipe
Conduit @ 0.06%

52 LF - 42" Pipe
Conduit @ 0.06%

25 LF - 42" Pipe
Conduit @ 0.06%

I.E. = 1592.59
I.E. = 1592.55
I.E. = 1592.55
I.E. = 1592.52
I.E. = 1592.52
I.E. = 1592.50

6+41.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	56

14th Ave SE

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

1620 / 1610 / 1600 / 1590

Inlet No. 8A
Top Elev. 1600.15

Inlet No. 7A
Top Elev. 1600.65

Inlet No. 7B
Top Elev. 1600.09

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1601.06

2.81%

2.10%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

I.E. = 1595.62

47 LF - 18" Pipe
Conduit @ 0.50%

I.E. = 1595.39

I.E. = 1595.72

24 LF - 15" Pipe
Conduit @ 0.50%

I.E. = 1595.84

7+10.00

1620 / 1610 / 1600 / 1590

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1600.73

2.81%

2.10%

2.00%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

7+00.00

18" Pipe
Offset 13.0' RT
I.E. 1595.18

1620 / 1610 / 1600 / 1590

Match Line See US Hwy 2 Cross Sections

4:1

2.04%

1600.07

2.81%

2.10%

2.75%

0.40%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

6+75.00

18" Pipe
Offset 13.0' RT
I.E. 1594.98

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	57

14th Ave SE

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

1620
1610
1600
1590

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1602.36

2.81%

2.10%

2.00%

4:1

Match Line See US Hwy 2 Cross Sections

15" Pipe
Offset 35.9' LT
I.E. 1596.83

7+50.00

1601.81

15" Pipe
Offset 36.3' LT
I.E. 1596.41

7+33.00

1601.55

15" Pipe
Offset 36.6' LT
I.E. 1596.21

7+25.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	58

14th Ave SE

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

1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1603.98

2.81%

2.10%

2.00%

4:1

Match Line See East Frontage Rd Cross Sections

15" Pipe
Offset 34.4' LT
I.E. 1598.08

8+00.00

1603.76

15" Pipe
Offset 34.6' LT
I.E. 1597.91

7+93.00

1603.17

Match Line See US Hwy 2 Cross Sections

Match Line See US Hwy 2 Cross Sections

15" Pipe
Offset 35.1' LT
I.E. 1597.46

7+75.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	59

14th Ave SE

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

1630 1620 1610 1600 1590

Match Line See US HWY 2 Cross Sections

4:1

2.10%

2.69%

2.10%

2.00%

4:1

Match Line See East Frontage Rd Cross Sections

15" Pipe
Offset 33.0' LT
I.E. 1599.33

8+50.00

1604.93

2.81%

8+29.00

15" Pipe
Offset 33.6' LT
I.E. 1598.81

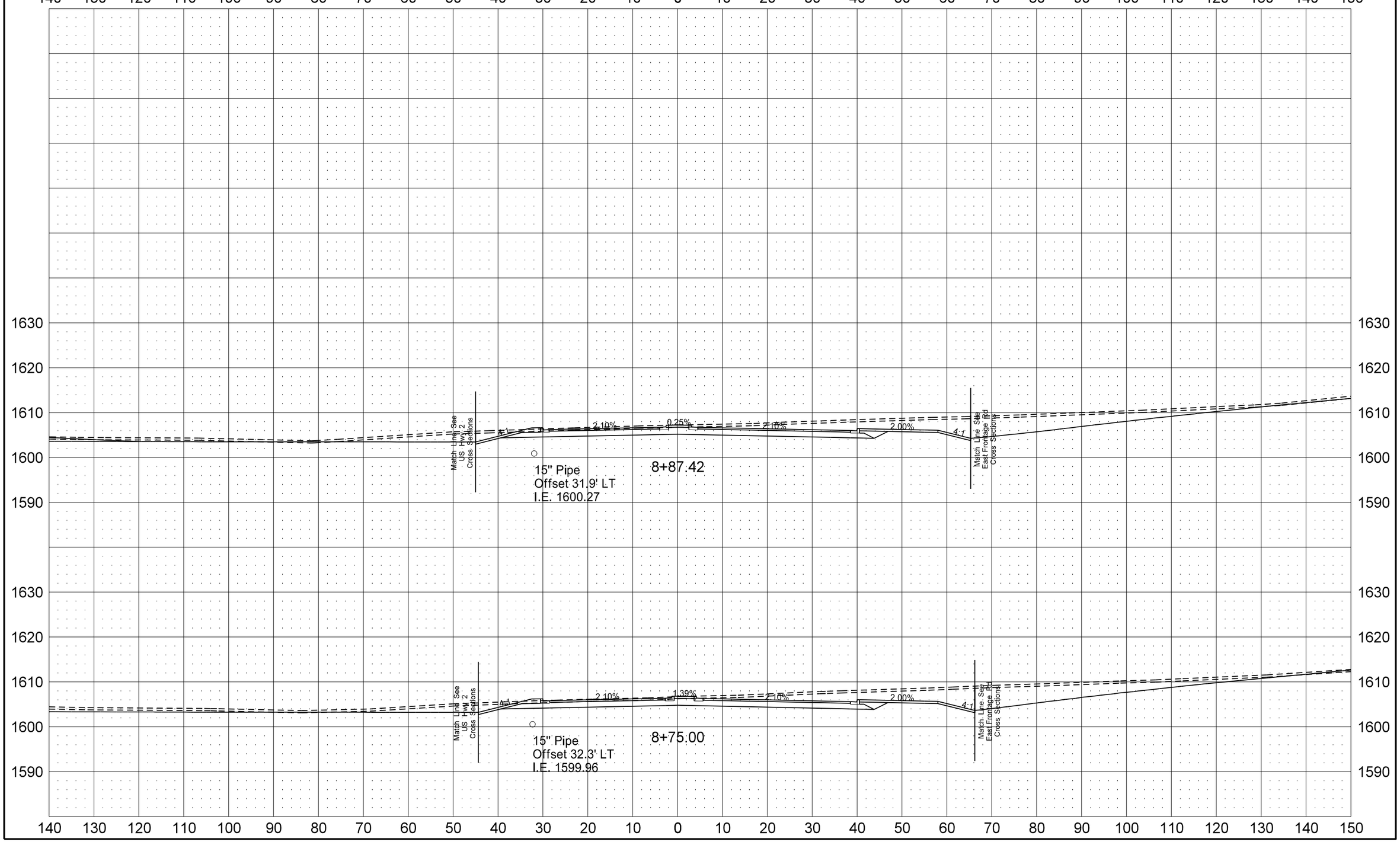
1604.80

8+25.00

15" Pipe
Offset 33.7' LT
I.E. 1598.71

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	60

14th Ave SE



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	61

14th Ave SE

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

1640
1630
1620
1610
1600
1590

Existing Non State R/W

Match Line See East Frontage Rd Cross Sections

608.05

2.10%

2.00%

9+25.00

15" Pipe
Offset 30.9' LT
I.E. 1601.21

607.23

9+00.00

15" Pipe
Offset 31.6' LT
I.E. 1600.58

Existing Non State R

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	62

14th Ave SE

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

1640 1630 1620 1610 1600

Match Line See East Frontage Rd Cross Sections

2.10%

1609.50

9+75.00

15" Pipe
Offset 28.8' LT
I.E. 1602.42

2.00%

Match Line See East Frontage Rd Cross Sections

Existing Non State R/W

15" Pipe
Offset 63.1' RT
I.E. 1603.69

30" Pipe
Offset 128.2' RT
I.E. 1595.85

1608.84

9+50.00

15" Pipe
Offset 30.2' LT
I.E. 1601.83

15" Pipe
Offset 59.6' RT
I.E. 1603.83

1608.40

9+35.83

15" Pipe
Offset 30.6' LT
I.E. 1601.48

Inlet No. 19C
Top Elev. 1608.13

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	63

14th Ave SE

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

1640 1630 1620 1610 1600

Match Line See East Frontage Rd Cross Sections

4:1

2.10%

1610.38

10+25.00

Existing Non State R/W

2.00%

30" Pipe
Offset 88.2' RT
I.E. 1596.12

Inlet No. 20A
Top Elev. 1608.91

I.E. = 1604.66

70 LF - 15" Pipe
Conduit @ 1.00%

Inlet No. 9
Top Elev. 1609.51

I.E. = 1603.97
I.E. = 1603.02

2.02%

1610.04

10+01.19

89 LF - 15" Pipe
Conduit @ 0.50%

Inlet No. 19A
Top Elev. 1608.95

I.E. = 1603.47

30" Pipe
Offset 109.1' RT
I.E. 1595.98

1610.02

10+00.00

15" Pipe
Offset 26.2' LT
I.E. 1603.02

15" Pipe
Offset 28.7' RT
I.E. 1603.29

30" Pipe
Offset 106.8' RT
I.E. 1595.99

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	64

14th Ave SE

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

1640 1630 1620 1610 1600

Existing Non State R/W

Existing Non State R/W

Easement

4:1

2.10%

1610.67

2.10%

5.00%

2.00%

5.25%

10+75.00

30" Pipe
Offset 58.6' RT
I.E. 1596.50

Existing Non State R/W

Existing Non State R/W

Easement

Inlet No. EX2
Top Elev. 1612.14

4:1

2.10%

1610.66

2.10%

2.00%

2.00%

4:1

10+67.97

Existing Non State R/W

Existing Non State R/W

Match One See
East Frontage Rd
Cross Sections

4:1

2.10%

1610.60

2.10%

2.00%

2.00%

4:1

30" Pipe
Offset 72.1' RT
I.E. 1596.23

10+50.00

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	65

14th Ave SE

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

1640 1630 1620 1610 1600

New R/W

Existing Non State R/W

1610.00

4:1 2.10% 2.10% 2.00% 2.00% 4:1

Existing Non State R/W

11+50.00

30" Pipe
Offset 31.4' RT
I.E. 1596.99

Existing Non State R/W

1610.36

4:1 2.10% 2.10% 5.00% 2.00% 5.25%

Existing Non State R/W

Easement

11+25.00

30" Pipe
Offset 38.8' RT
I.E. 1596.83

Existing Non State R/W

1610.59

4:1 2.10% 2.10% 5.00% 2.00% 5.25%

Existing Non State R/W

Easement

11+00.00

30" Pipe
Offset 47.8' RT
I.E. 1596.67

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	66

14th Ave SE

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

1640 1630 1620 1610 1600

New R/W

Existing Non State R/W

669.25

4:1 2.10% 2.10% 6.77% 2.00%

12+00.00

30" Pipe
Offset 20.9' RT
I.E. 1597.29

669.63

4:1 2.10% 2.10% 6.99% 2.00%

11+75.00

30" Pipe
Offset 25.4' RT
I.E. 1597.14

669.73

4:1 2.10% 2.10% 7.73% 2.00%

11+67.97

30" Pipe
Offset 26.9' RT
I.E. 1597.10

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	67

14th Ave SE

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

1630 1620 1610 1600 1640 1630 1620 1610 1600

New R/W

Existing Non State R/W

Existing Non State R/W

1608.29

2.10% 2.10% 7.12% 2.00%

12+63.97

30" Pipe
Offset 15.5' RT
I.E. 1597.66

New R/W

Existing Non State R/W

Existing Non State R/W

1608.50

2.10% 2.10% 9.42% 2.00% 9.12%

12+50.00

30" Pipe
Offset 15.9' RT
I.E. 1597.58

Easement

New R/W

Existing Non State R/W

Existing Non State R/W

1608.88

2.10% 2.10% 6.21% 2.00%

12+25.00

30" Pipe
Offset 17.8' RT
I.E. 1597.43

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	68

14th Ave SE

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

1630
1620
1610
1600

New R/W
Existing Non State R/W
A-1
2.10%
1607.75
Existing Non State R/W

13+00.00

30" Pipe
Offset 16.0' RT
I.E. 1597.87

New R/W
Existing Non State R/W
A-1
2.10%
1607.78
2.10%
1.99%
2.00%
Existing Non State R/W

12+97.97

30" Pipe
Offset 15.9' RT
I.E. 1597.85

New R/W
Existing Non State R/W
A-1
2.10%
1608.13
2.10%
5.31%
2.00%
5.45%
Existing Non State R/W

12+75.00

30" Pipe
Offset 15.4' RT
I.E. 1597.72

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	69

14th Ave SE

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

1630 / 1620 / 1610 / 1600

Existing Non State R/W

4:1

2.10%

1607.41

15" Pipe
Offset 4.7' LT
I.E. 1602.11
13+50.00

Inlet No. 10A
Top Elev. 1606.82

Inlet No. EX3B
Top Elev. 1607.09

Inlet No. EX3A
Top Elev. 1606.51

2.13%

37 LF - 15" Pipe
Conduit @ 3.00%

I.E. = 1602.57

I.E. = 1601.47

13+49.72

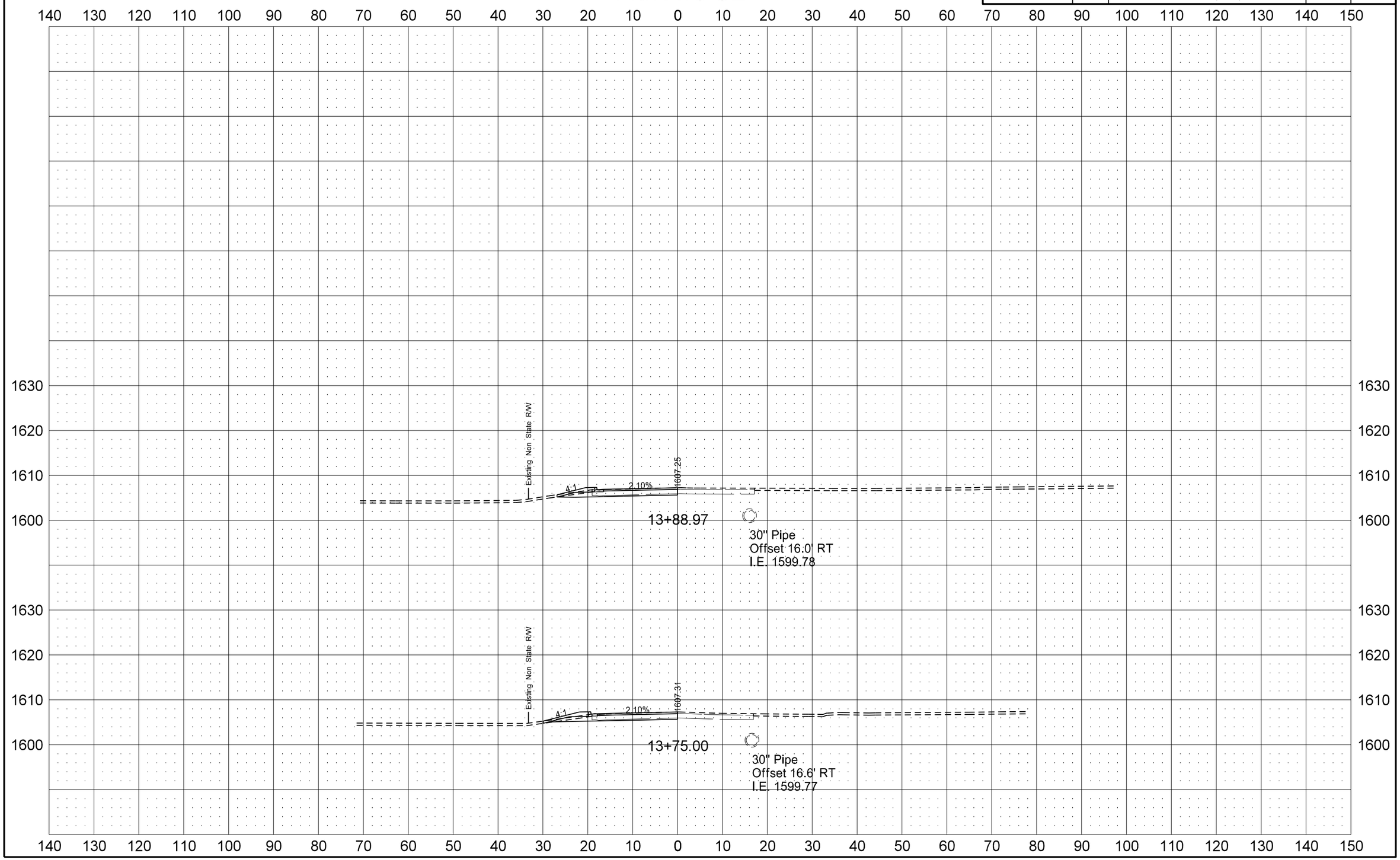
1607.52

30" Pipe
Offset 16.8' RT
I.E. 1598.01

13+25.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	70

14th Ave SE



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	71

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

Existing Non-State R/W

2.10%

1591.33

2.10%

Existing R/W

8:1

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

12+00.00

1620 1610 1600 1590 1580

New R/W

Existing Non-State R/W

2.10%

1591.23

2.10%

Existing R/W

8:1

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

11+83.00

1620 1610 1600 1590 1580

New R/W

Existing Non-State R/W

2.10%

1591.18

2.10%

Existing R/W

8:1

Wetland Delineated

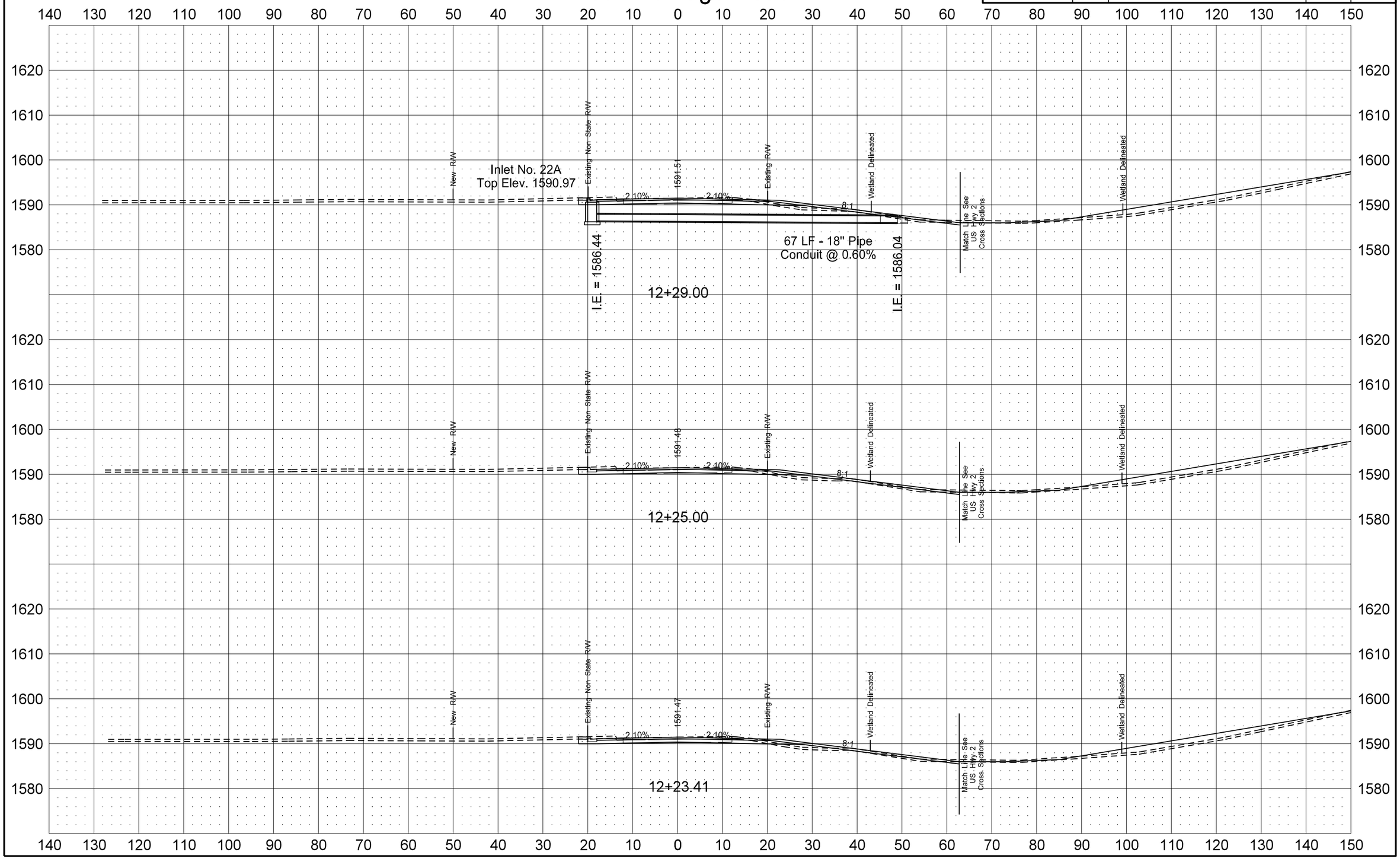
Wetland Delineated

11+75.42

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	72

West Frontage Road



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	73

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

Existing Non State R/W

1591.93

3.00% 3.30% 2.10% 2.10%

Existing R/W

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

Wetland Mitigation

13+00.00

New R/W

Existing Non State R/W

1591.78

4:1 2.10% 2.10%

Existing R/W

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

12+75.00

New R/W

Existing Non State R/W

1591.63

4:1 2.10% 2.10%

Existing R/W

Wetland Delineated

8:1

Match Line See US Hwy 2 Cross Sections

Wetland Delineated

12+50.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	74

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

4:1

2.10%

1592.38

2.10%

Existing Non State R/W

10:1

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

Wetland Mitigation

13+75.00

New R/W

5.00%

3.30%

2.10%

1592.23

2.10%

Existing Non State R/W

10:1

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

Wetland Mitigation

13+50.00

New R/W

3.30%

2.10%

1592.08

Existing Non State R/W

2.10%

10:1

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

Wetland Mitigation

13+25.00

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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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	75

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W
Wetland Delineated
4:1
2.10%
1592.83
2.10%
Wetland Delineated
Existing Non State R/W
10:1
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections

14+50.00

New R/W
4:1
2.10%
1592.68
2.10%
Existing Non State R/W
10:1
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections
Wetland Delineated

14+25.00

New R/W
4:1
2.10%
1592.53
2.10%
Existing Non State R/W
10:1
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections
Wetland Delineated

14+00.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	76

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

Wetland Delineated

2.10%

1593.28

2.10%

4:1

Wetland Delineated

Wetland Delineated

10:1

Existing Non State R/W

Match Line Side US Hwy 2 Cross Section

15+25.00

Wetland Delineated

New R/W

1593.13

2.10%

2.10%

4:1

Wetland Delineated

10:1

Existing Non State R/W

Wetland Mitigation

Match Line Side US Hwy 2 Cross Section

15+00.00

Wetland Delineated

New R/W

1592.98

2.10%

2.10%

4:1

Wetland Delineated

10:1

Existing Non State R/W

Wetland Mitigation

Match Line Side US Hwy 2 Cross Section

14+75.00

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	77

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W
4:1
2.10%
1593.73
Wetland Delineated
2.10%
10:1
Wetland Delineated
Existing Non State R/W
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections

16+00.00

Wetland Delineated
New R/W
Wetland Delineated
1593.58
4:1
2.10%
2.10%
Wetland Delineated
10:1
Existing Non State R/W
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections
Inv: 1588.23
Offset: 34.5' LT
73 LF - 24" Pipe
Conduit @ 2.64%
Inv: 1586.30
Offset: 38.5' RT

15+75.00

New R/W
Wetland Delineated
1593.43
4:1
2.10%
2.10%
Wetland Delineated
10:1
Existing Non State R/W
Wetland Mitigation
Match Line See US Hwy 2 Cross Sections

15+50.00

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	78

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

4:1

2.10%

1594.18

2.10%

Existing Non State R/W

Wetland Mitigation

10:1

Match Line See US Hwy 2 Cross Sections

16+75.00

1594.03

16+50.00

Wetland Delineated

1593.88

16+25.00

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	79

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

1594.75

4:1 2.10% 2.10% 10:1

Existing Non State R/W

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

17+50.00

New R/W

1594.50

4:1 2.10% 2.10% 10:1

Existing Non State R/W

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

17+25.00

New R/W

1594.33

4:1 2.10% 2.10% 10:1

Existing Non State R/W

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

17+00.00

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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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	80

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

Existing Non State R/W

1595.52

4:1

2.06%

2.10%

10:1

Match Line See 42nd St SE Cross Sections

18+00.00

1595.50

17+99.21

1595.09

Existing Non State R/W

Wetland Mitigation

Match Line See US Hwy 2 Cross Sections

17+75.00

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	81

West Frontage Road

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

1620 1610 1600 1590 1580

New R/W

Existing Non State R/W

Match Line See 42nd St SE Cross Sections

8:1

0.60%

1596.12

2.10%

10:1

18+30.07

18" Pipe
Offset 149.4' RT
I.E. 1586.42

New R/W

Existing Non State R/W

8:1

0.85%

1596.01

2.10%

10:1

18+25.00

New R/W

Existing Non State R/W

5:1

1.83%

1595.61

2.10%

10:1

18+04.86

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	82

West Frontage Road

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

1620
1610
1600
1590

Match Line See 42nd St SE Cross Sections

0.75%

1596.67

0.75%

Match Line See 42nd St SE Cross Sections

18+57.85

18" Pipe
Offset 140.5' RT
I.E. 1588.17

1620
1610
1600
1590

Match Line See 42nd St SE Cross Sections

0.37%

1596.51

1.13%

Match Line See 42nd St SE Cross Sections

18+50.00

18" Pipe
Offset 143.0' RT
I.E. 1587.67

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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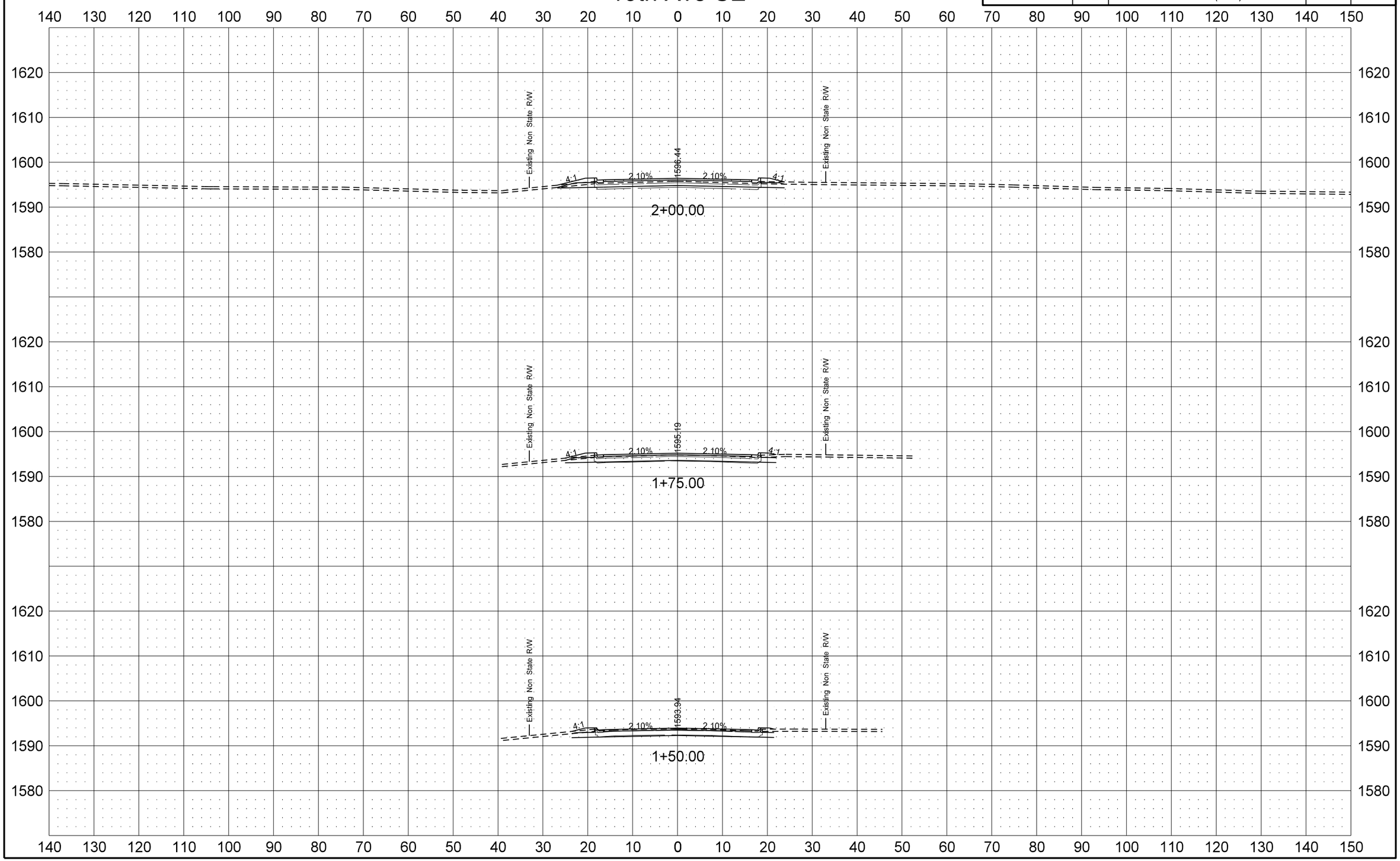
13th Ave SE

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	83



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	84

13th Ave SE

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

1610 1600 1590

6:1 0.16% 1598.81 2.10% 4:1

Match Line See 42nd St SE Cross Sections

2+58.87

1610 1600 1590

5:1 0.59% 1598.59 2.10% 5:1

Match Line See 42nd St SE Cross Sections

2+50.00

1620 1610 1600 1590

Existing Non State R/W

4:1 1.81% 1597.68 2.10% 4:1

Existing Non State R/W

2+25.00

1620 1610 1600 1590

Existing Non State R/W

4:1 2.10% 1597.39 2.10% 4:1

Existing Non State R/W

2+18.98

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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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	85

13th Ave SE

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

1610
1600
1590

Match Line See 42nd St SE Cross Sections

4:1

0.75%

1599.20

1.20%

4:1

Match Line See 42nd St SE Cross Sections

2+77.62

Match Line See 42nd St SE Cross Sections

4:1

0.62%

1599.15

1.20%

Match Line See 42nd St SE Cross Sections

2+75.00

Match Line See 42nd St SE Cross Sections

4:1

0.59%

1599.13

1.71%

Match Line See 42nd St SE Cross Sections

2+74.30

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	86

East Frontage Road

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

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

3:1 4:1 2.10% 2.10% 4:1

1601.32

Existing R/W

8+50.00

1600.96

8+25.00

1600.84

8+16.84

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	87

East Frontage Road

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

1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

3:1 4:1 2.10% 2.10% 10:1

1601.68

Existing R/W

8+75.00

Inlet No. 17A
Top Elev. 1601.10

Inlet No. 18A
Top Elev. 1601.10

1601.64

26 LF - 18" Pipe
Conduit @ 8.00%

I.E. = 1592.44

I.E. = 1594.56

I.E. = 1596.67

36 LF - 15" Pipe
Conduit @ 0.50%

I.E. = 1596.85

8+72.00

1601.53

8+64.83

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	88

East Frontage Road

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

1620
1610
1600
1590
1580

1602.62

Existing R/W

New R/W

4:1

2.10%

2.10%

8:1

3:1

Match Line See US Hwy 2 Cross Sections

30" Pipe
Offset 17.2' LT
I.E. 1593.41

9+25.00

1620
1610
1600
1590
1580

1602.06

Existing R/W

4:1

2.10%

2.10%

10:1

3:1

Match Line See US Hwy 2 Cross Sections

30" Pipe
Offset 37.2' LT
I.E. 1593.21

9+00.00

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

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	89

East Frontage Road

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

1640 1630 1620 1610 1600 1590 1580

Match Line See US Hwy 2 Cross Sections

3:1

2.10%

1604.46

2.10%

6:1

Existing Non_State R/W

New R/W

30" Pipe
Offset 6.3' RT
I.E. 1593.75

9+75.00

4:1

3:1

2.10%

1603.42

2.10%

6:1

Existing R/W

New R/W

30" Pipe
Offset 3.2' LT
I.E. 1593.59

9+50.00

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	90

East Frontage Road

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

1640 1630 1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1607.03

2.10%

6:1

Existing Non State R/

New R/W

10+25.00

30" Pipe
Offset 14.8' RT
I.E. 1594.03

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1605.72

2.10%

6:1

Existing Non State R/

New R/W

10+00.00

30" Pipe
Offset 12.1' RT
I.E. 1593.89

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	91

East Frontage Road

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

1640 1630 1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

10:1

Existing R/W

Existing Non State R/W

2.10%

1609.66

2.10%

6:1

Existing Non State R/W

New R/W

10+75.00

30" Pipe
Offset 13.7' RT
I.E. 1594.32

Match Line See US Hwy 2 Cross Sections

9:1

Existing R/W

Existing Non State R/W

2.10%

1608.35

2.10%

6:1

Existing Non State R/W

New R/W

10+50.00

30" Pipe
Offset 14.6' RT
I.E. 1594.17

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	92

East Frontage Road

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

1640 1630 1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

Existing R/W

10:1

Existing Non State R/W

2.10%

1612.28

2.10%

5.00%

Existing Non State R/W

6.74%

Easement

11+25.00

30" Pipe
Offset 11.9' RT
I.E. 1594.61

Match Line See US Hwy 2 Cross Sections

Existing R/W

10:1

Existing Non State R/W

2.10%

1610.97

2.10%

14:1

Existing Non State R/W

Easement

11+00.00

30" Pipe
Offset 12.8' RT
I.E. 1594.46

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	93

East Frontage Road

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

1640 1630 1620 1610 1600 1590

Match Line Site
US Hwy 2
Cross Sections

Existing Non State R/W

10:1

2.10%

1614.22

2.10%

4:1

Existing Non State R/W

11+75.00
30" Pipe
Offset 10.8' RT
I.E. 1595.17

Match Line Site
US Hwy 2A
Cross Sections

Existing R/W

10:1

Existing Non State R/W

2.10%

1613.41

2.10%

5.00%

Existing Non State R/W

6.62%

Easement

11+50.00
30" Pipe
Offset 11.0' RT
I.E. 1594.76

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

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	94

East Frontage Road

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

1640 1630 1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

10:1

Existing Non State R/W

1614.87

2.10%

4:1

12+25.00

30" Pipe
Offset 10.7' RT
I.E. 1595.35

1614.71

12+00.00

30" Pipe
Offset 10.7' RT
I.E. 1595.26

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	95

East Frontage Road

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

1640 1630 1620 1610 1600 1590

Match Line See 14th Ave SE Cross Sections

10:1

Existing Non State R/W

1614.25

2.10%

4:1

12+75.00

30" Pipe
Offset 10.5' RT
I.E. 1595.53

Match Line See US Hwy 2 Cross Sections

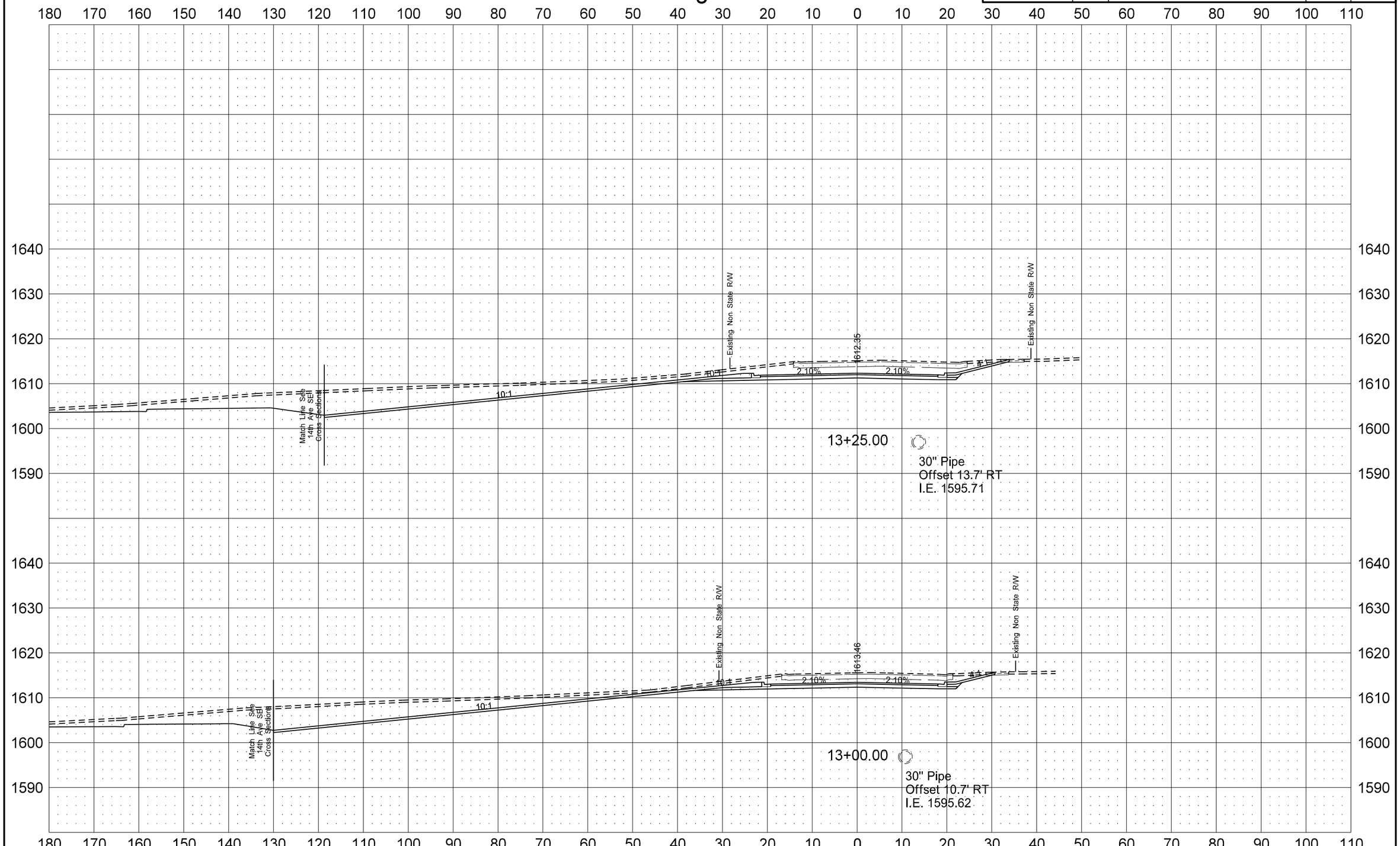
1614.72

12+50.00

30" Pipe
Offset 10.6' RT
I.E. 1595.44

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NHU-4-002(116)149	200	96

East Frontage Road



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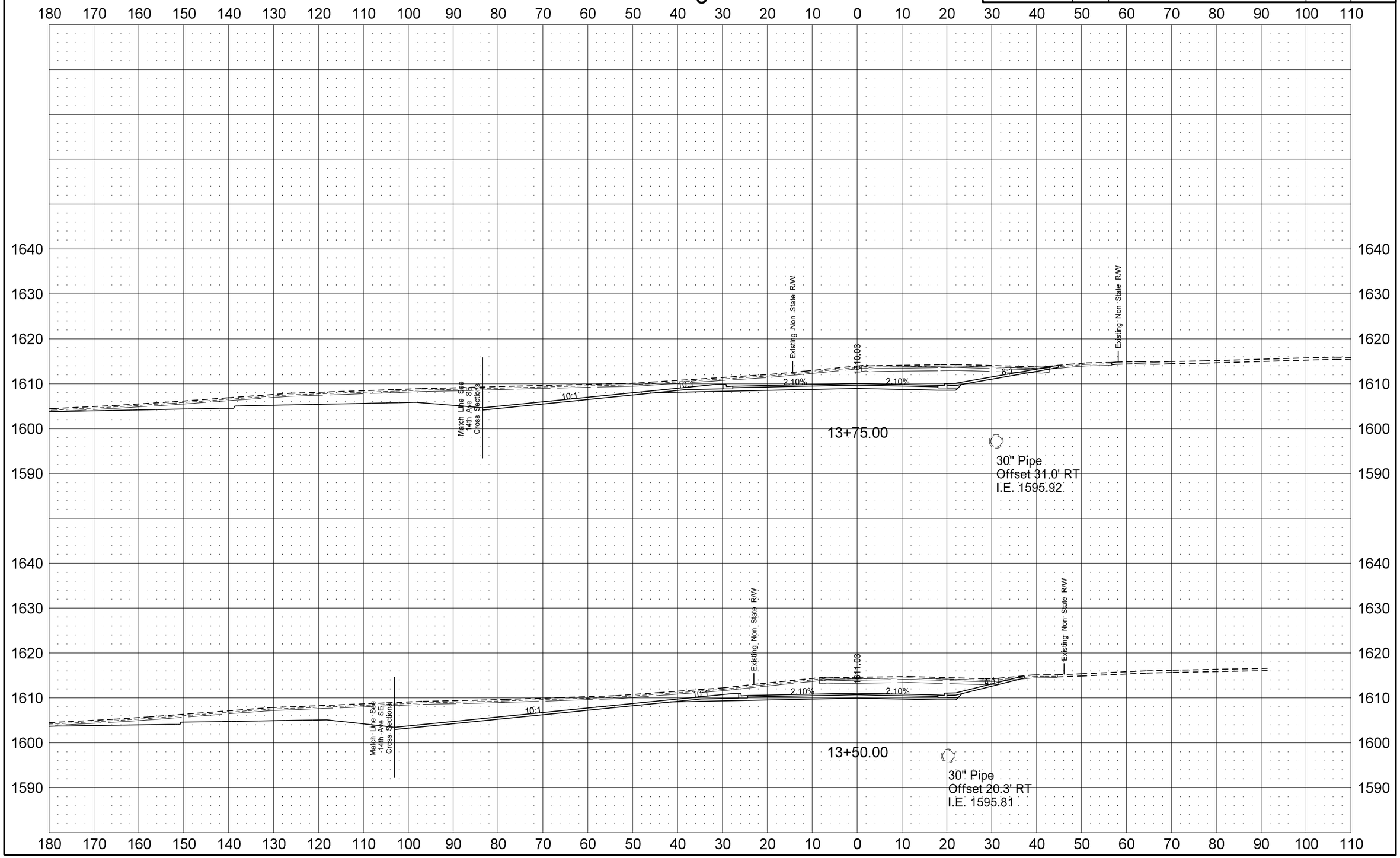
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NHU-4-002(116)149	200	97

East Frontage Road



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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	98

East Frontage Road

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

1640 1630 1620 1610 1600

Match Line See 14th Ave SE Cross Sections

10:1

2.10%

0.94%

4:1

Existing Non State R/W

609.33

Inlet No. 19B
Top Elev. 1608.99

14+04.08

30" Pipe
Offset 50.0' RT
I.E. 1596.06

Existing Non State R/W

Match Line See 14th Ave SE Cross Sections

10:1

10:1

2.10%

1.13%

4:1

Existing Non State R/W

609.40

14+00.00

30" Pipe
Offset 46.8' RT
I.E. 1596.04

Match Line See 14th Ave SE Cross Sections

10:1

10:1

2.10%

2.10%

4:1

Existing Non State R/W

609.87

13+80.10

30" Pipe
Offset 33.8' RT
I.E. 1595.94

Existing Non State R/W

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	99

East Frontage Road

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

1640 1630 1620 1610 1600 1590

Match Line See 14th Ave SE Cross Sections

1609.10

14+25.00

Existing Non State R/W

0.08%

19:1

15" Pipe
Offset 20.4' RT
I.E. 1603.44

30" Pipe
Offset 69.5' RT
I.E. 1596.18

Existing Non State R/W

Match Line See 14th Ave SE Cross Sections

3.04%

1609.11

14+23.42

Existing Non State R/W

15" Pipe
Offset 20.4' RT
I.E. 1603.45

30" Pipe
Offset 69.5' RT
I.E. 1596.18

Existing Non State R/W

Match Line See 14th Ave SE Cross Sections

9:1

10:1

Inlet No. 19C
Top Elev. 1608.13

I.E. = 1603.88

2.03%

1609.18

62 LF - 15" Pipe
Conduit @ 0.50%

14+16.71

Existing Non State R/W

Inlet No. 19A
Top Elev. 1608.95

I.E. = 1603.57

0.31%

22:1

Existing Non State R/W

30" Pipe
Offset 70.1' RT
I.E. 1596.18

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	100

East Frontage Road

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

1640
1630
1620
1610
1600

Match Line See 14th Ave SE Cross Sections

1608.92

14+42.87

0.95%

Existing Non State RW

19:1

Match Line See 14th Ave SE Cross Sections

15" Pipe
Offset 15.8' RT
I.E. 1603.35

30" Pipe
Offset 91.4' RT
I.E. 1596.30

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	101

East Frontage Road

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

1630
1620
1610
1600

Match Line See 14th Ave SE Cross Sections

1609.24

15+16.92

15" Pipe
Offset 69.9' LT
I.E. 1600.99

15" Pipe
Offset 12.9' RT
I.E. 1604.00

Match Line See 14th Ave SE Cross Sections

Match Line See 14th Ave SE Cross Sections

15+15.43

15" Pipe
Offset 56.4' LT
I.E. 1601.33

15" Pipe
Offset 12.8' RT
I.E. 1604.02

Inlet No. 9
Top Elev. 1609.51

15" Pipe
Offset 8.8' LT
I.E. 1602.53

15" Pipe
Offset 12.7' RT
I.E. 1603.97

15+10.14

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	102

East Frontage Road

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

1630 1620 1610 1600 1590

Match Line See US. Hwy 2 Cross Sections

10:1 2.10% 0.62% 6:1 24:1 0.00% 4:1

1609.41 1607.75

15+50.00

15" Pipe
Offset 14.3' RT
I.E. 1604.38

Match Line See US. Hwy 2 Cross Sections

10:1 2.10% 0.09% 8:1 24:1 0.00% 4:1

1609.34 1608.29

15+35.44

15" Pipe
Offset 13.2' RT
I.E. 1604.22

Match Line See 14th Ave SE Cross Sections

10:1 2.61% 0.59%

1609.28

15+25.00

15" Pipe
Offset 13.0' RT
I.E. 1604.12

East Frontage Road

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	103

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

1630 1620 1610 1600 1590

Match Line See US Hwy 2 Cross Sections

10:1 10:1 2.10% 2.10% 4:1 24:1 0.00% 4:1

1609.40 1606.48

15+84.35

Match Line See US Hwy 2 Cross Sections

10:1 10:1 2.10% 2.10% 4:1 24:1 0.00% 4:1

1609.41 1606.62

15+80.46

Match Line See US Hwy 2 Cross Sections

10:1 10:1 2.10% 1.83% 4:1 24:1 0.00% 4:1

1609.43 1606.83

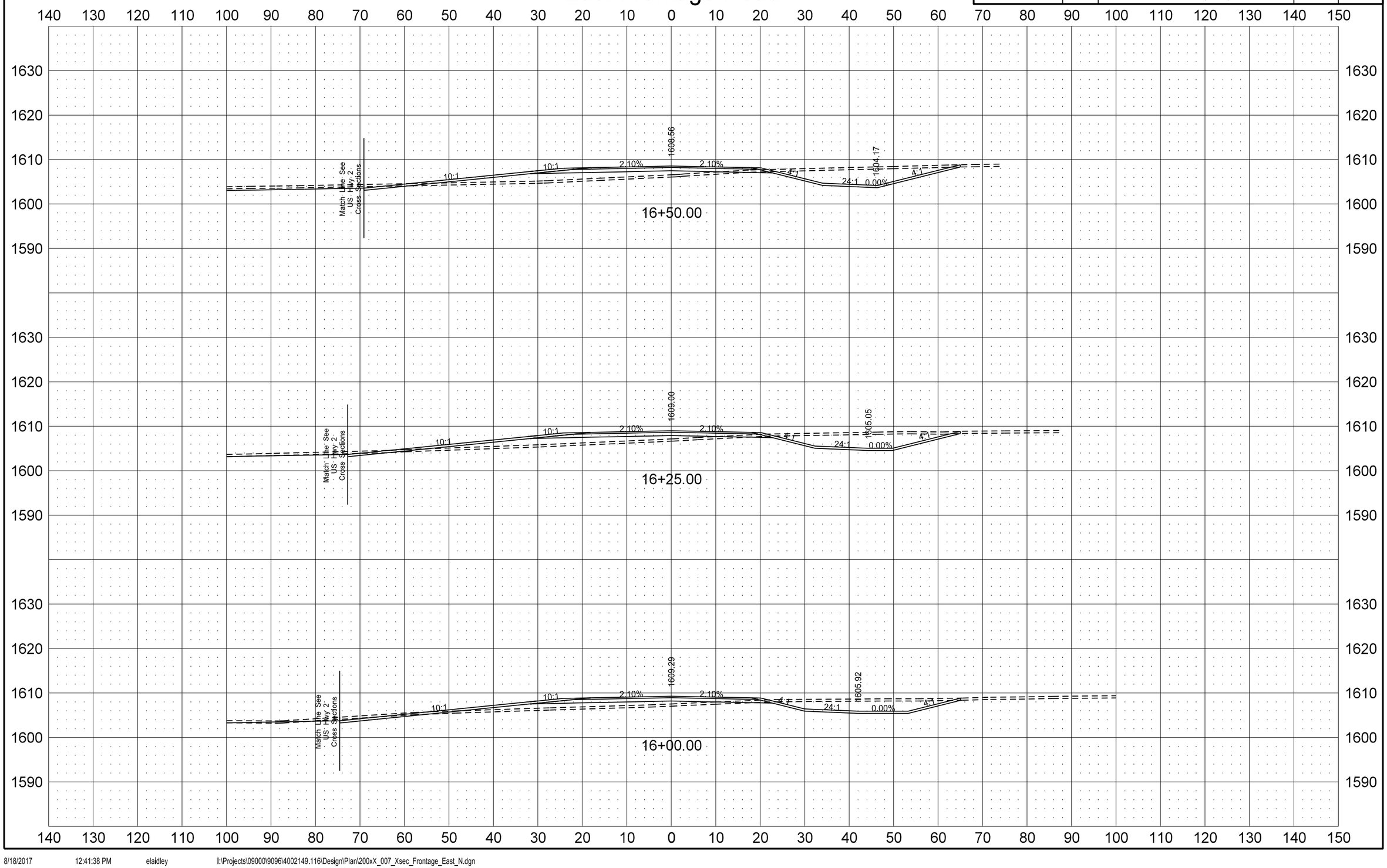
Inlet No. 20A
Top Elev. 1608.91

15" Pipe
Offset 18.7' RT
I.E. 1604.65

15+75.00

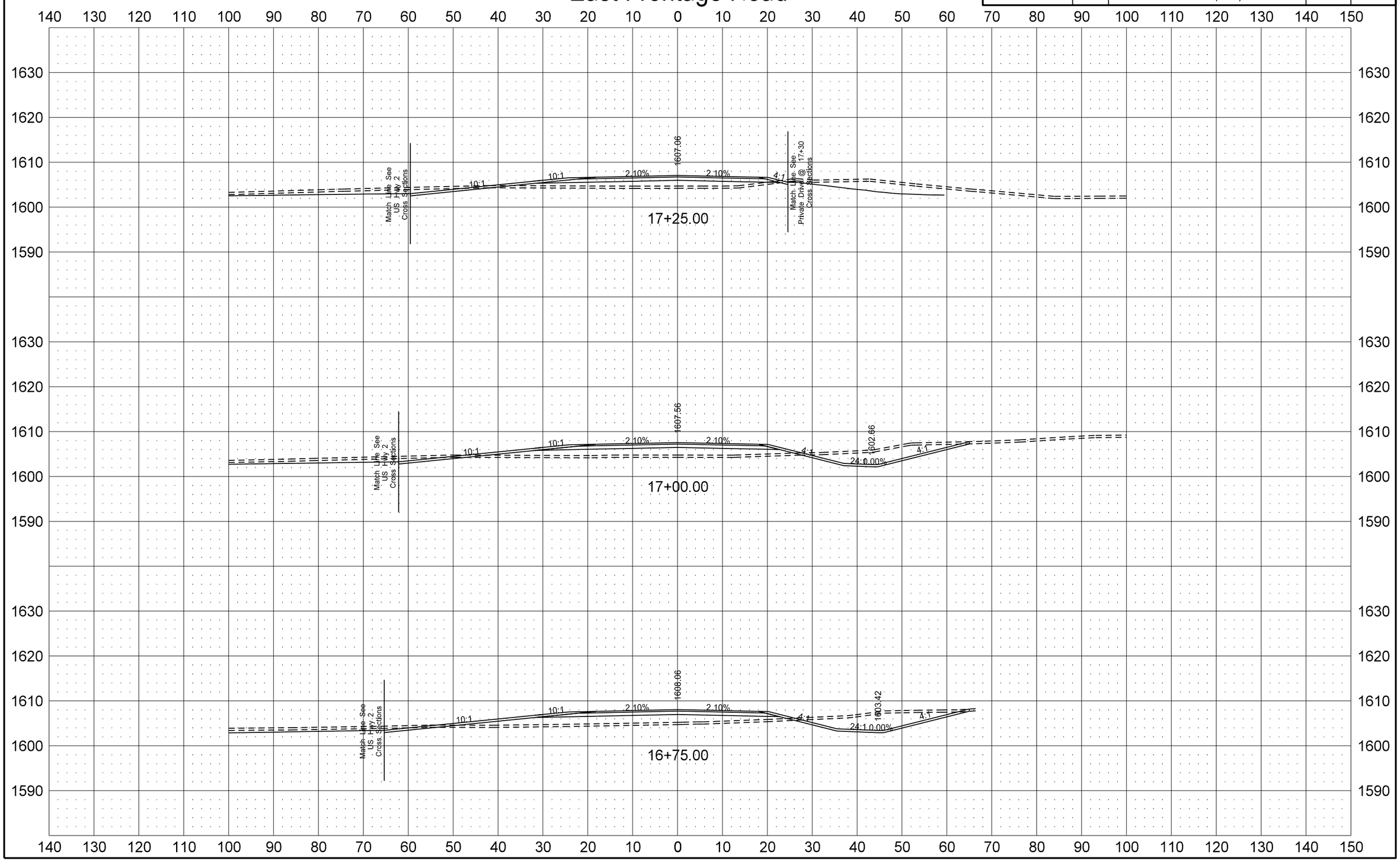
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	104

East Frontage Road



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	105

East Frontage Road



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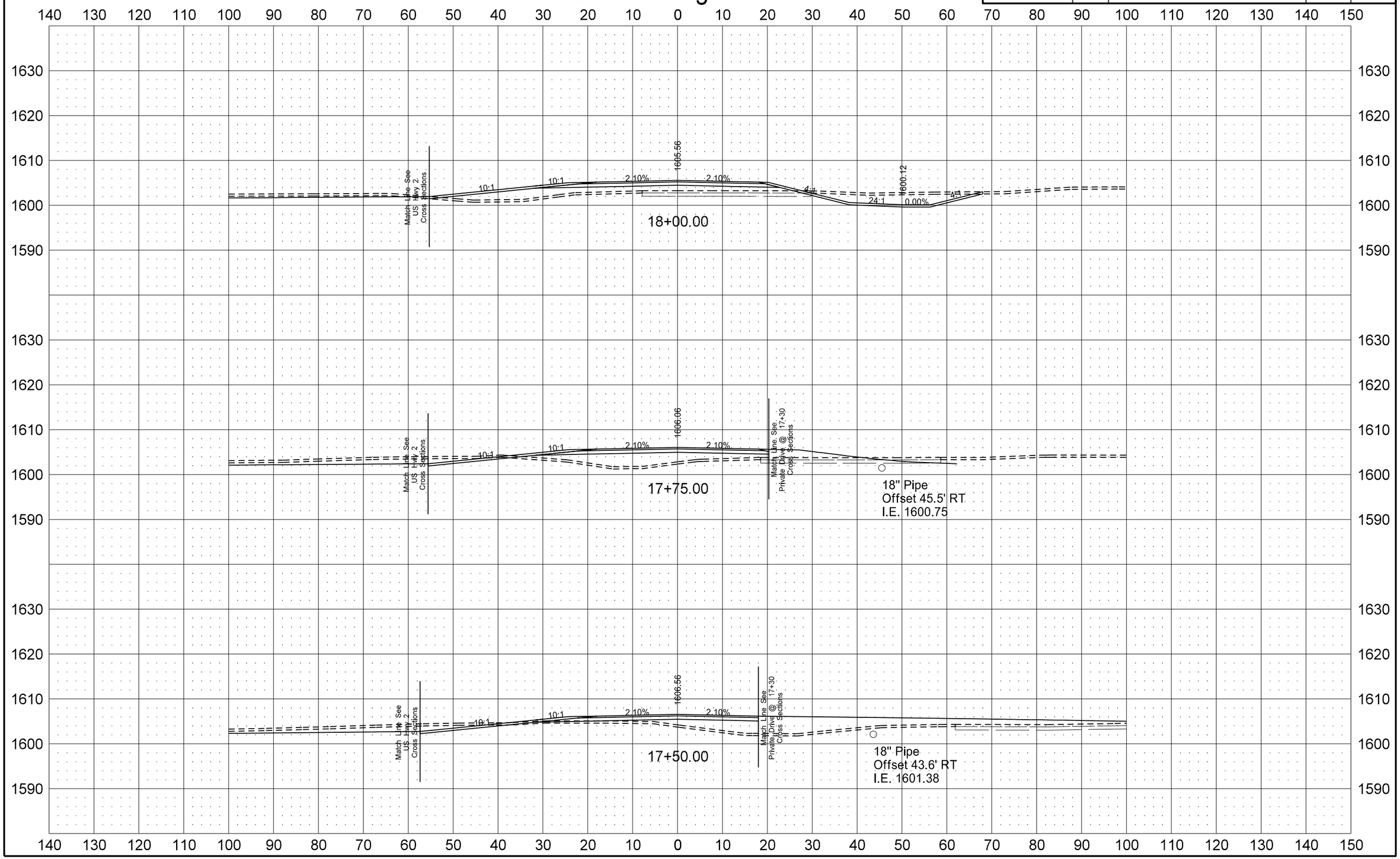
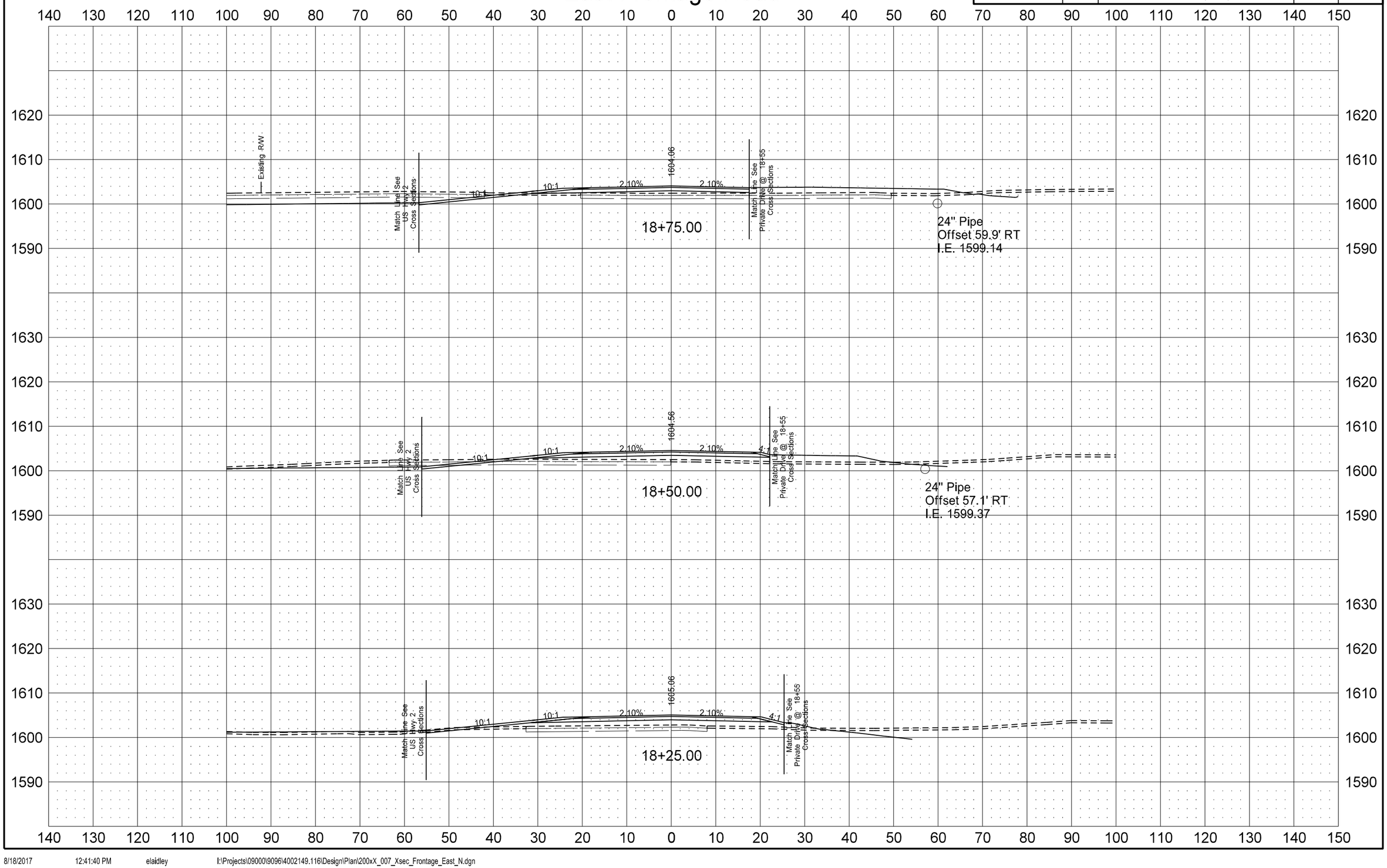
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	106

East Frontage Road



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	107

East Frontage Road

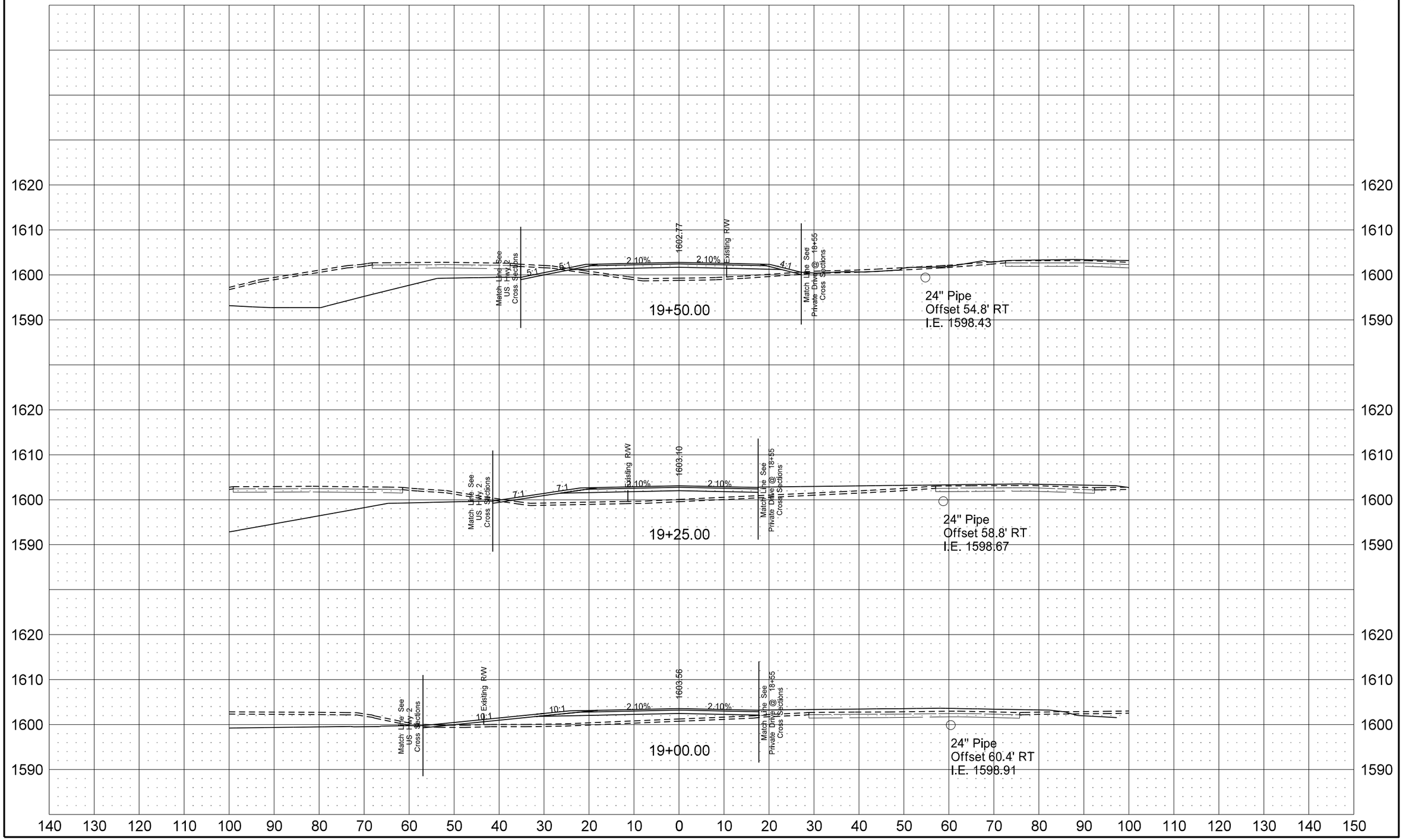


	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	108

East Frontage Road

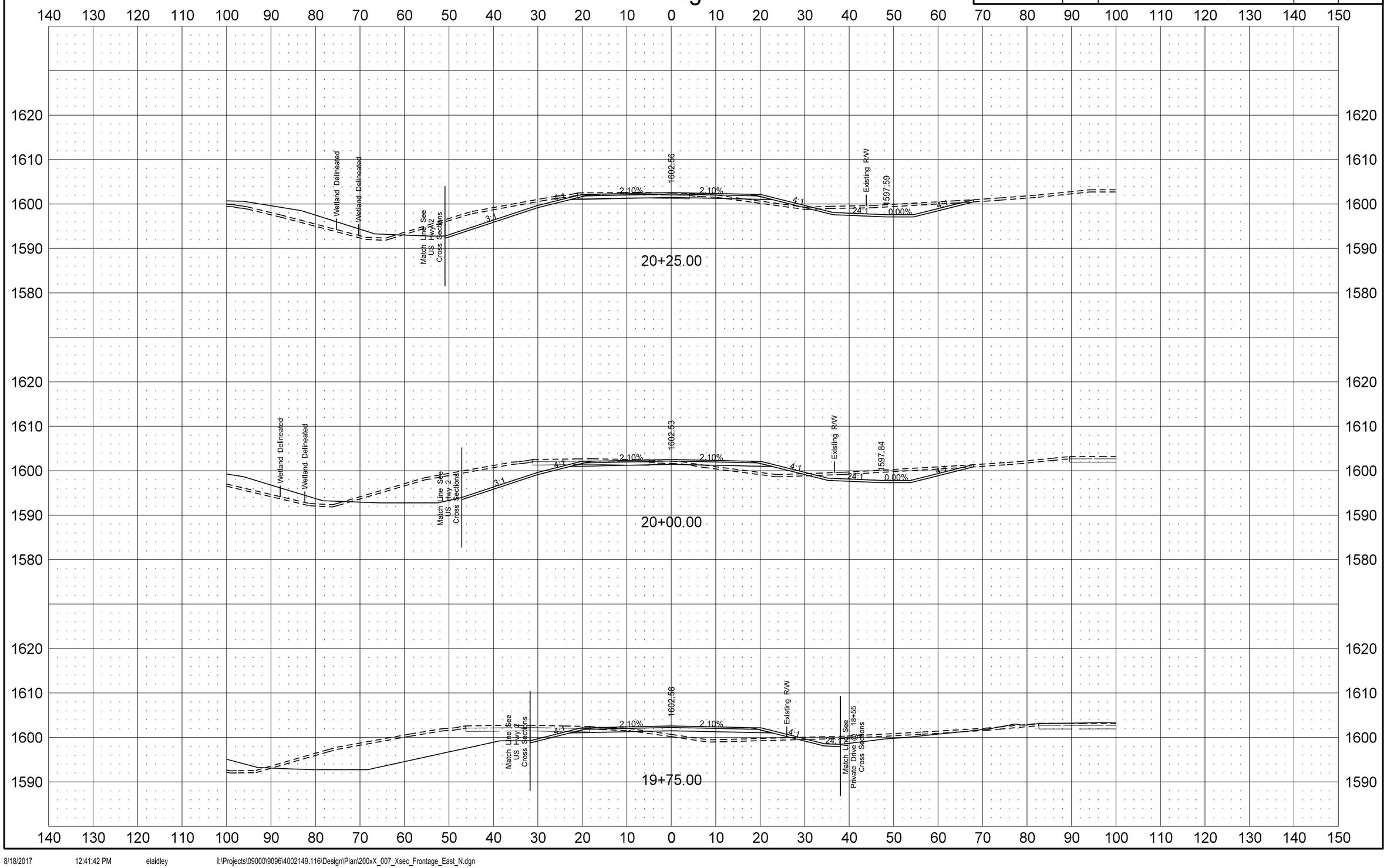
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1620 1610 1600 1590



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	109

East Frontage Road



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	110

East Frontage Road

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

1620 1610 1600 1590 1580

Wetland Delineated

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1602.64

2.10%

4:1

4:1

24:1

0.00%

1598.48

Existing R/W

4:1

20+75.00

Wetland Delineated

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

4:1

2.10%

1602.60

2.10%

4:1

4:1

24:1

0.00%

1597.81

Existing R/W

4:1

20+50.00

Wetland Delineated

Wetland Delineated

Match Line See US Hwy 2 Cross Sections

Inv: 1593.13
Offset: 43.8' LT

4:1

2.10%

1602.58

2.10%

4:1

4:1

24:1

0.00%

1597.48

Existing R/W

Inv: 1596.78
Offset: 34.1' RT

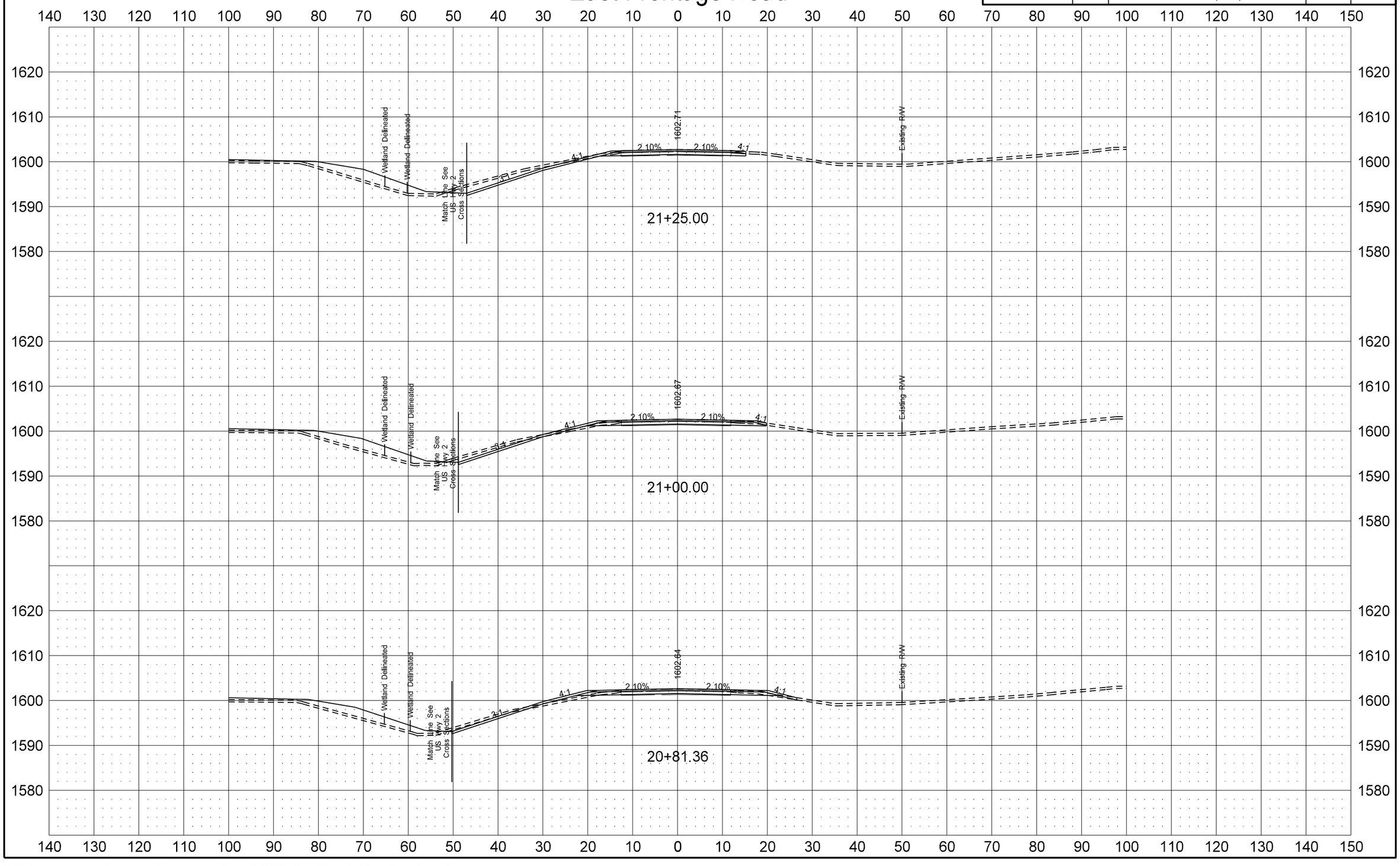
4:1

CSP Alternative
78 LF - 24" Pipe
Conduit @ 4.68%

20+37.85

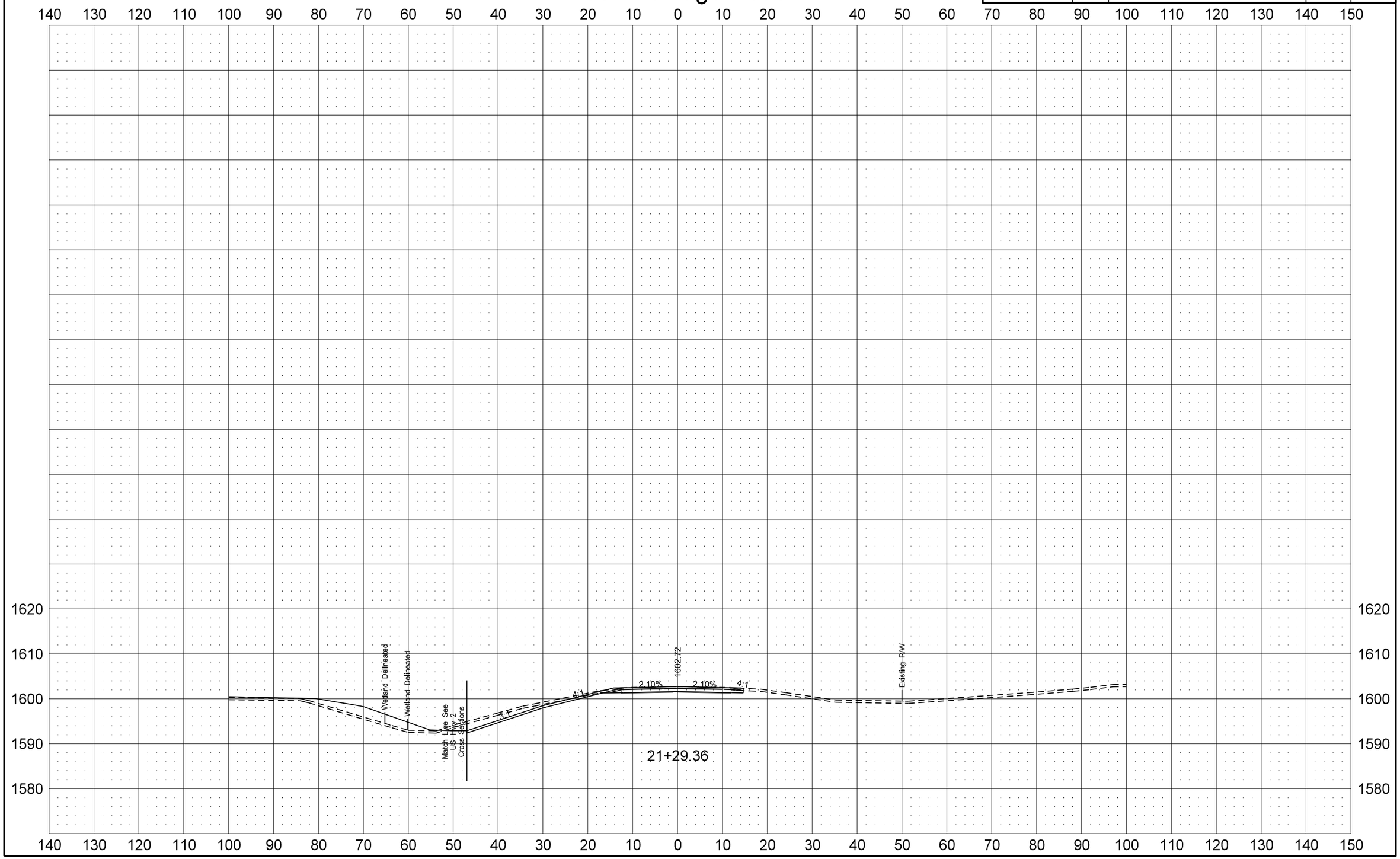
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	111

East Frontage Road



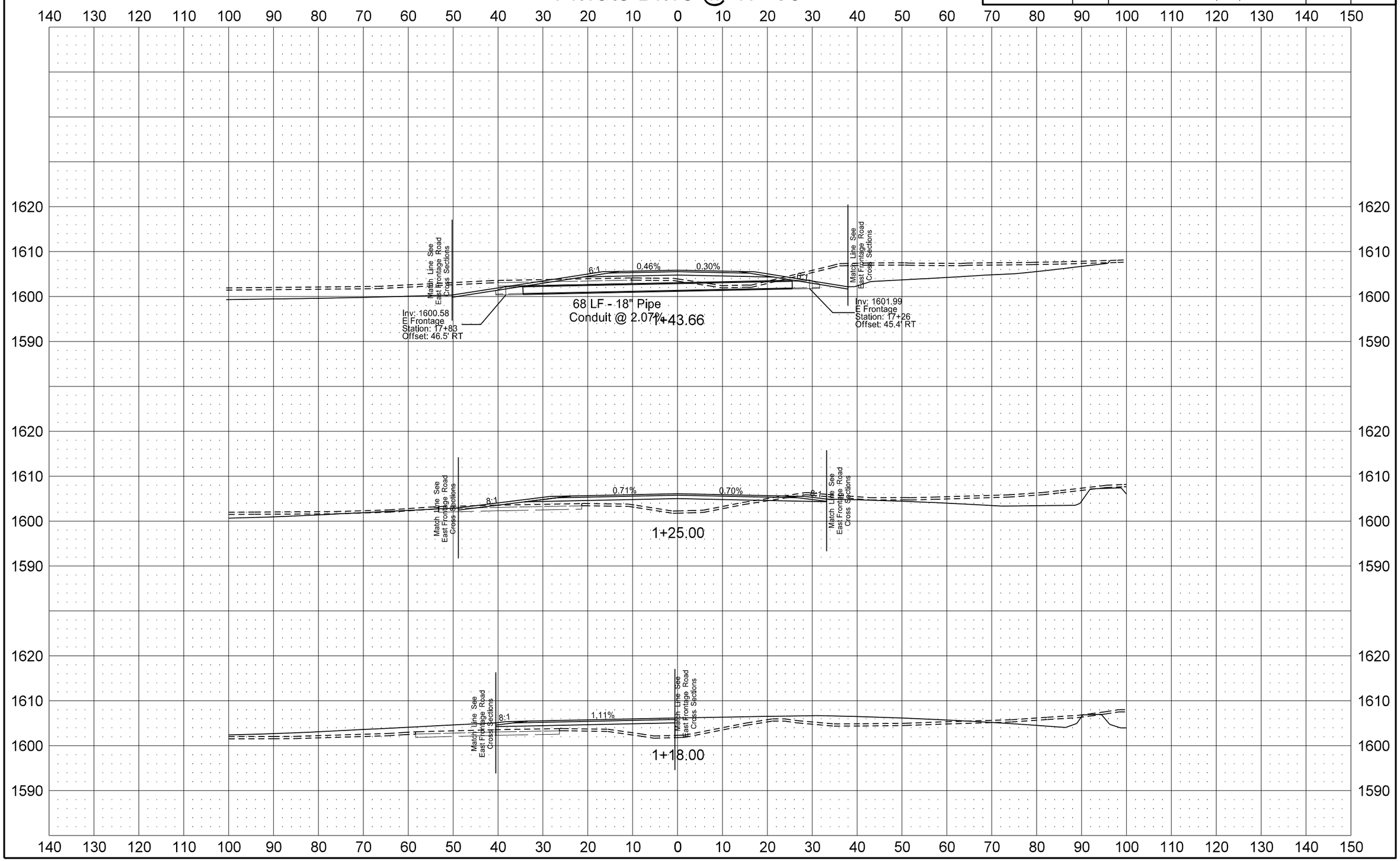
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	112

East Frontage Road



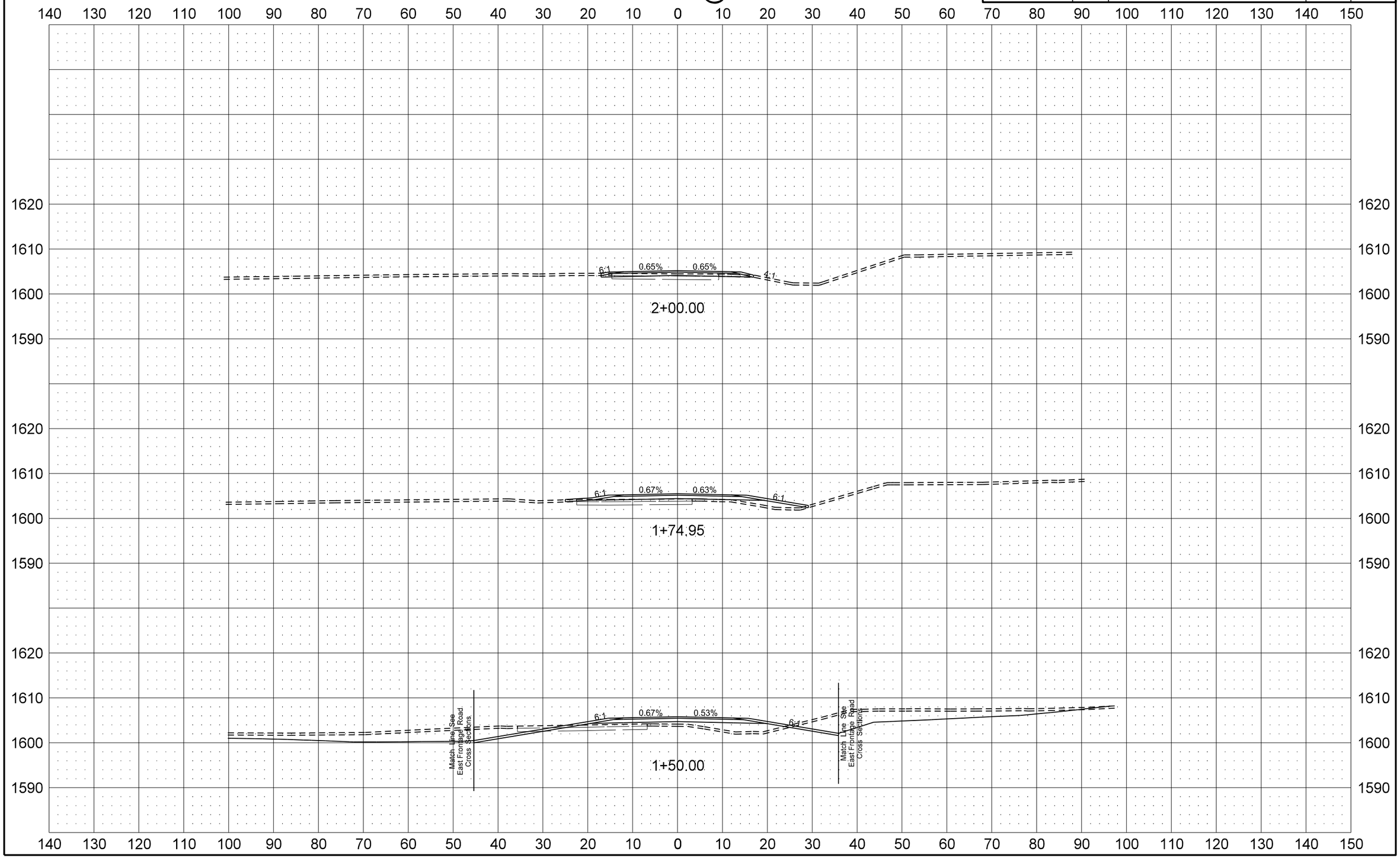
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	113

Private Drive @ 17+50



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	114

Private Drive @ 17+50



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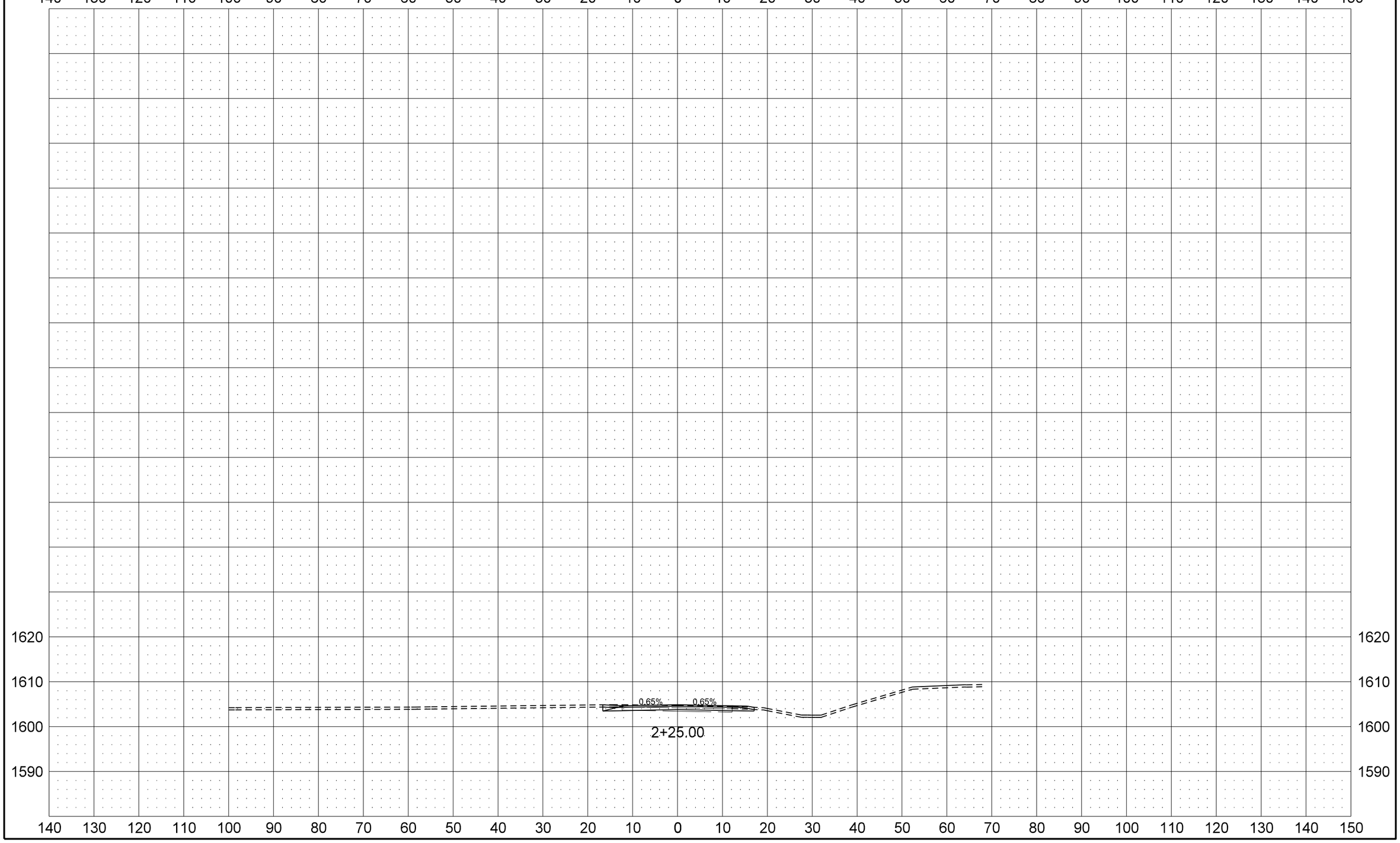
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	115

Private Drive @ 17+50



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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	116

Private Drive @ 18+55

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

1620 1610 1600 1590

Existing R/W

Match Line See East Frontage Road Cross Sections

6:1

1.95%

1.36%

11:1

Inv: 1598.29
Offset: 51.4' RT

1+71.95

85 LF - 24" Pipe
Conduit @ 0.94%

Inv: 1599.41
Offset: 56.4' RT

Match Line See East Frontage Road Cross Sections

Existing R/W

Match Line See East Frontage Road Cross Sections

2.10%

2.10%

6:1

1+50.00

Match Line See East Frontage Road Cross Sections

Existing R/W

Match Line See East Frontage Road Cross Sections

2.10%

2.10%

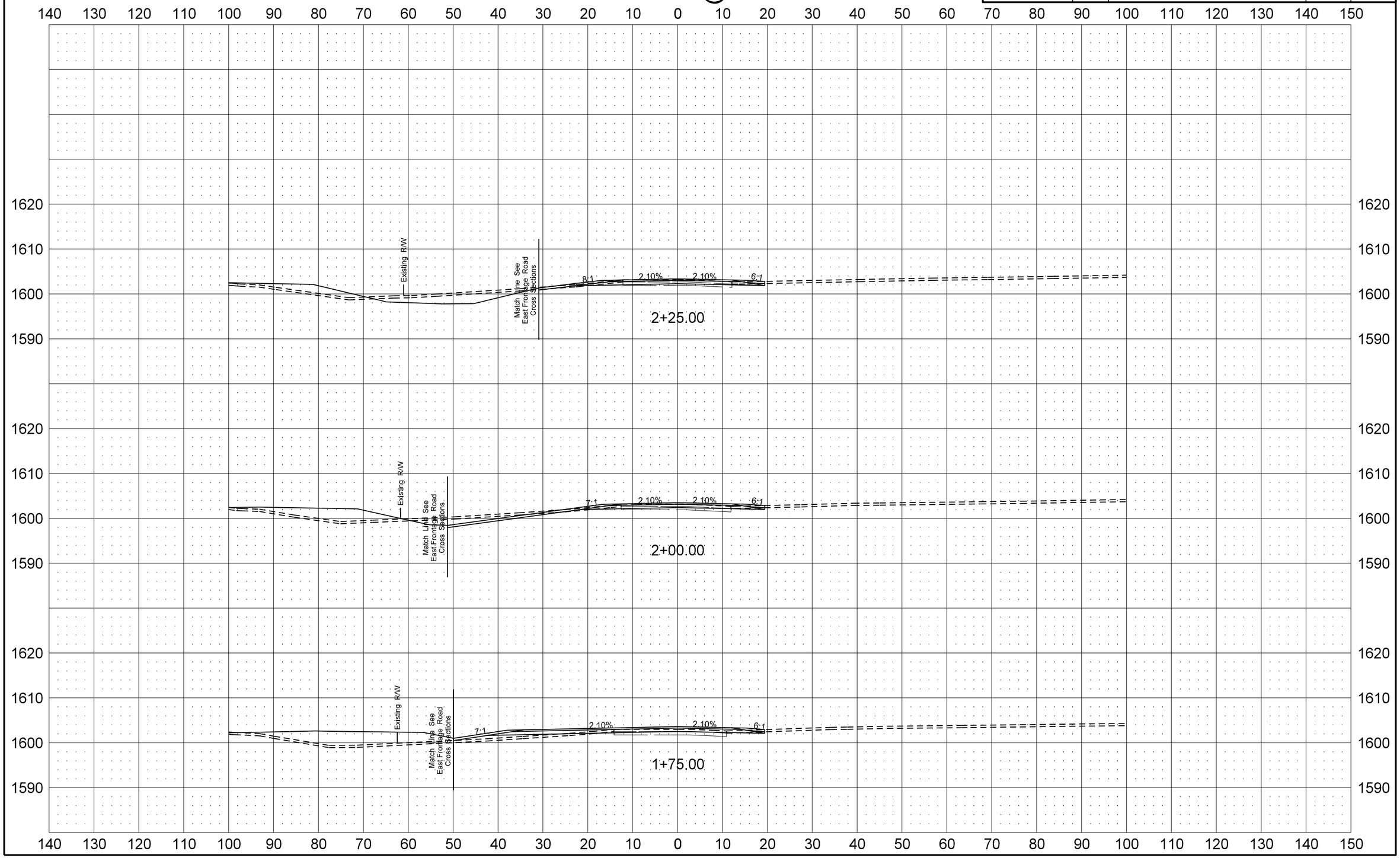
6:1

1+25.00

Match Line See East Frontage Road Cross Sections

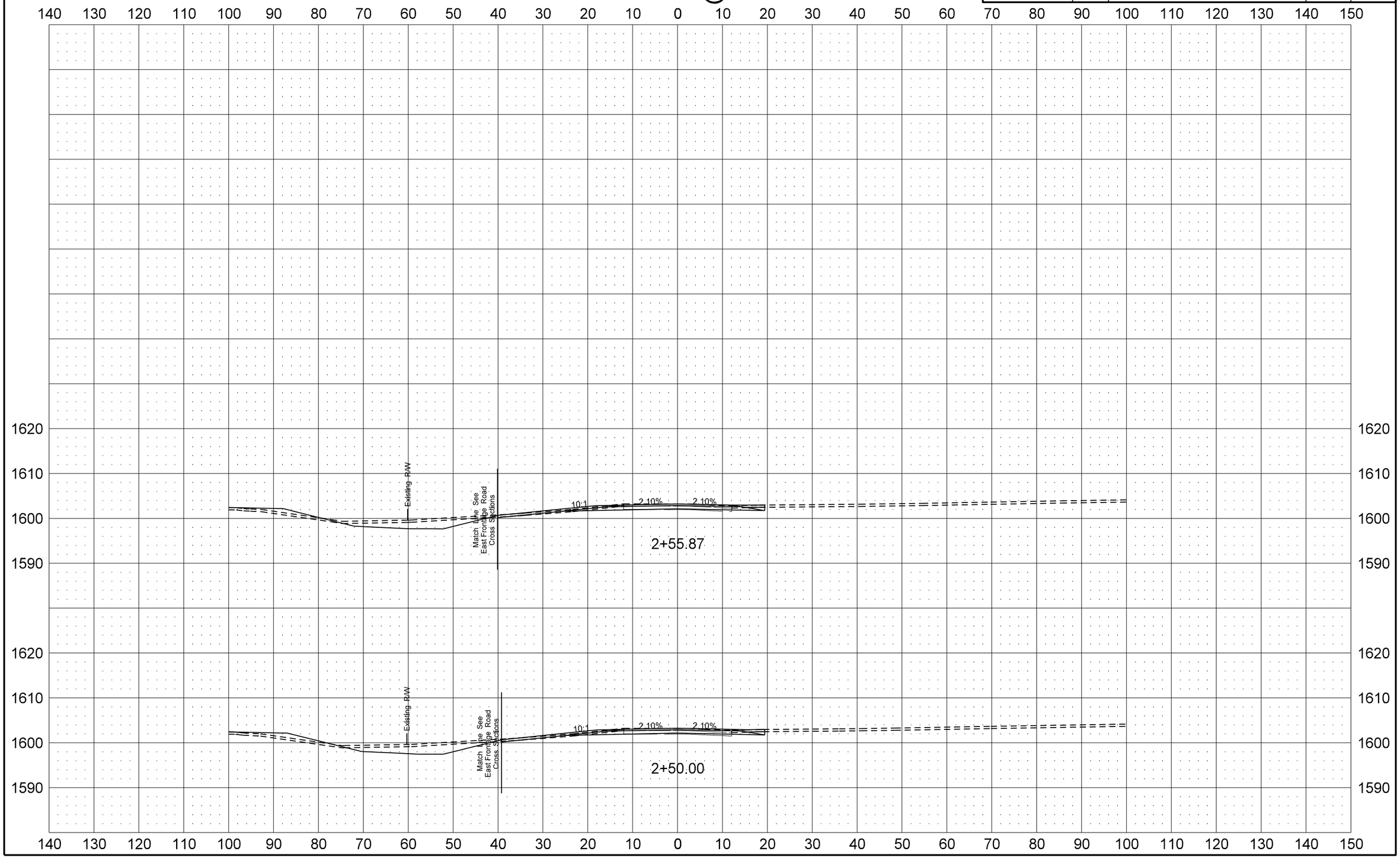
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	117

Private Drive @ 18+55



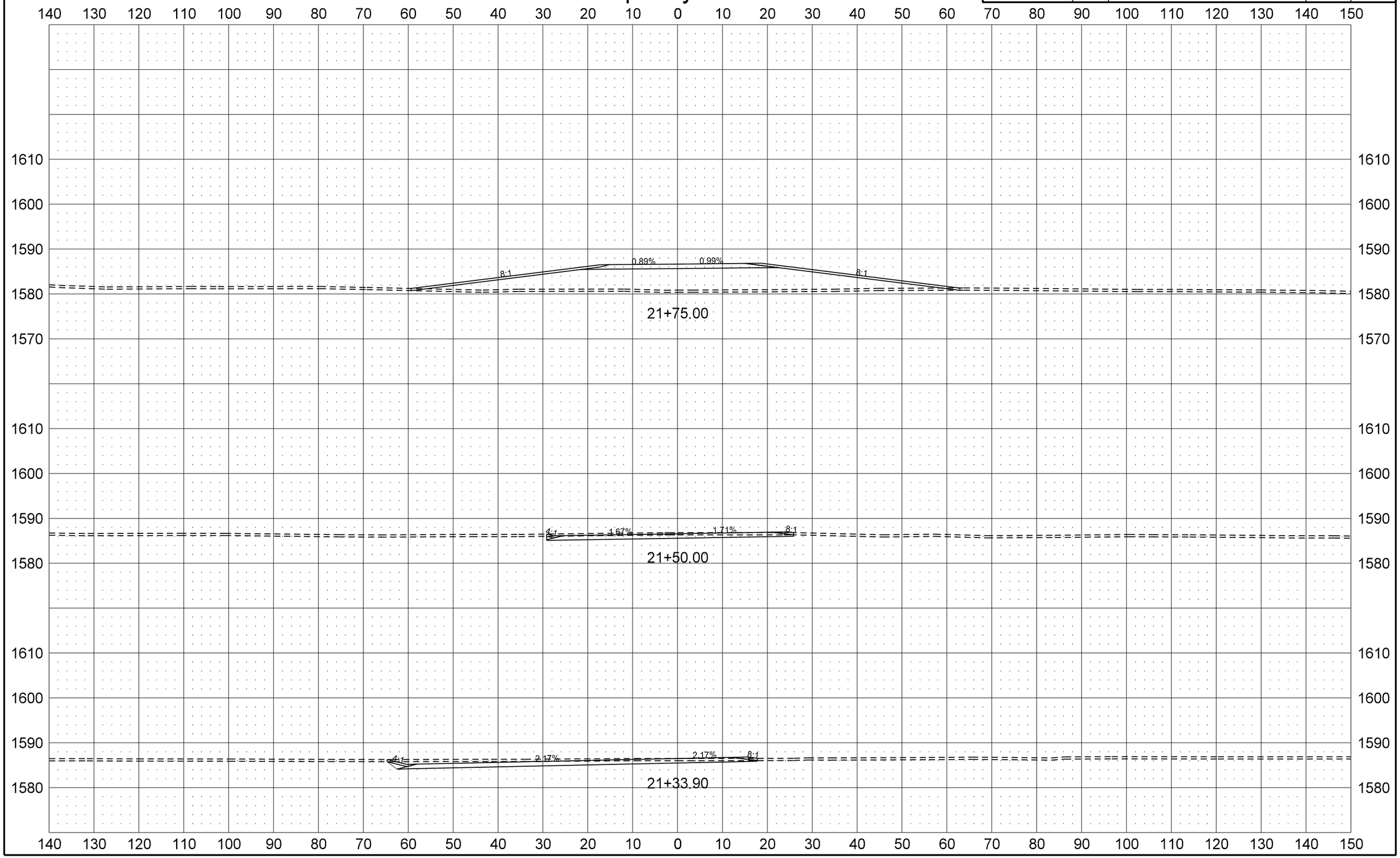
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	118

Private Drive @ 18+55



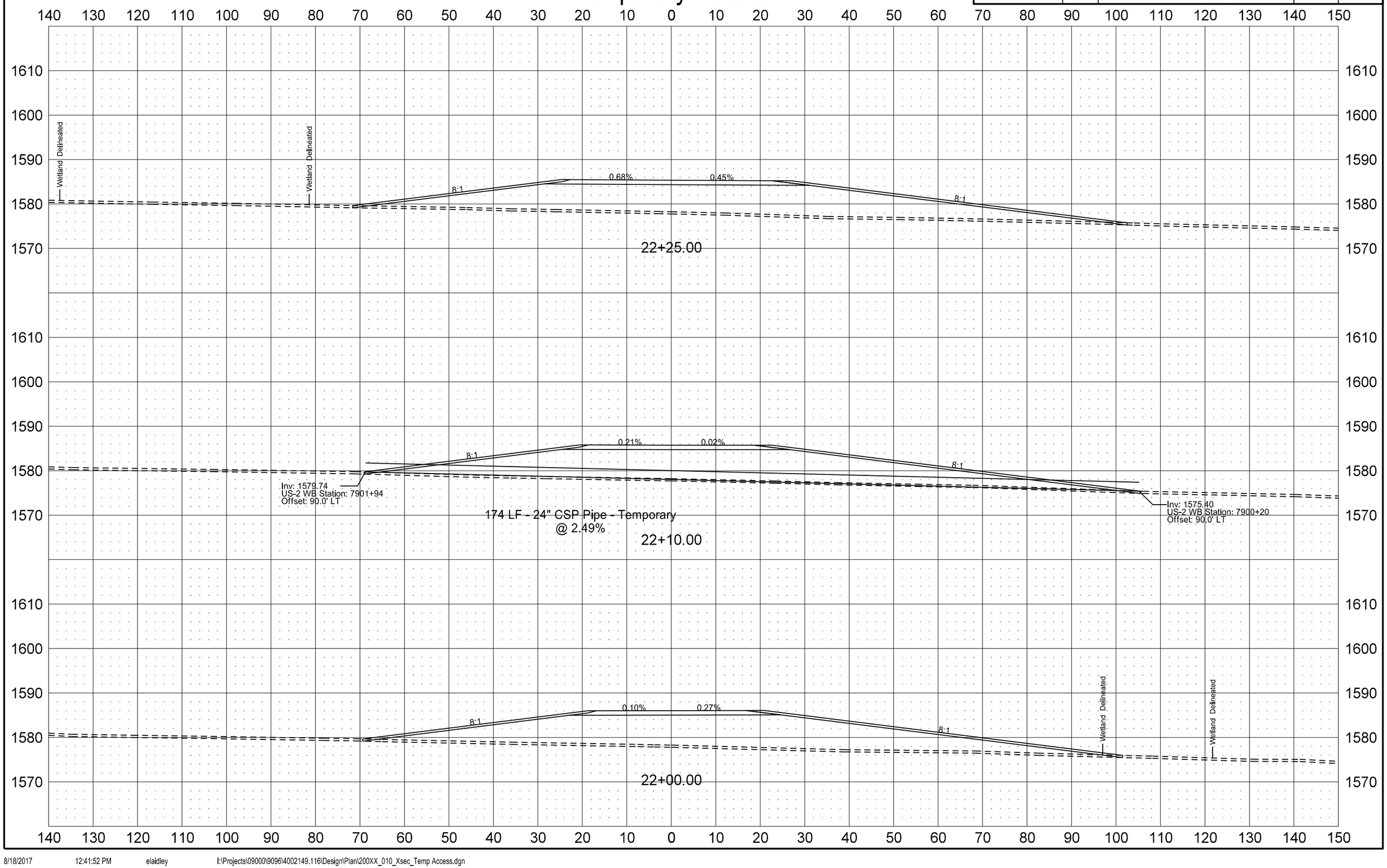
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	119

Temporary Access



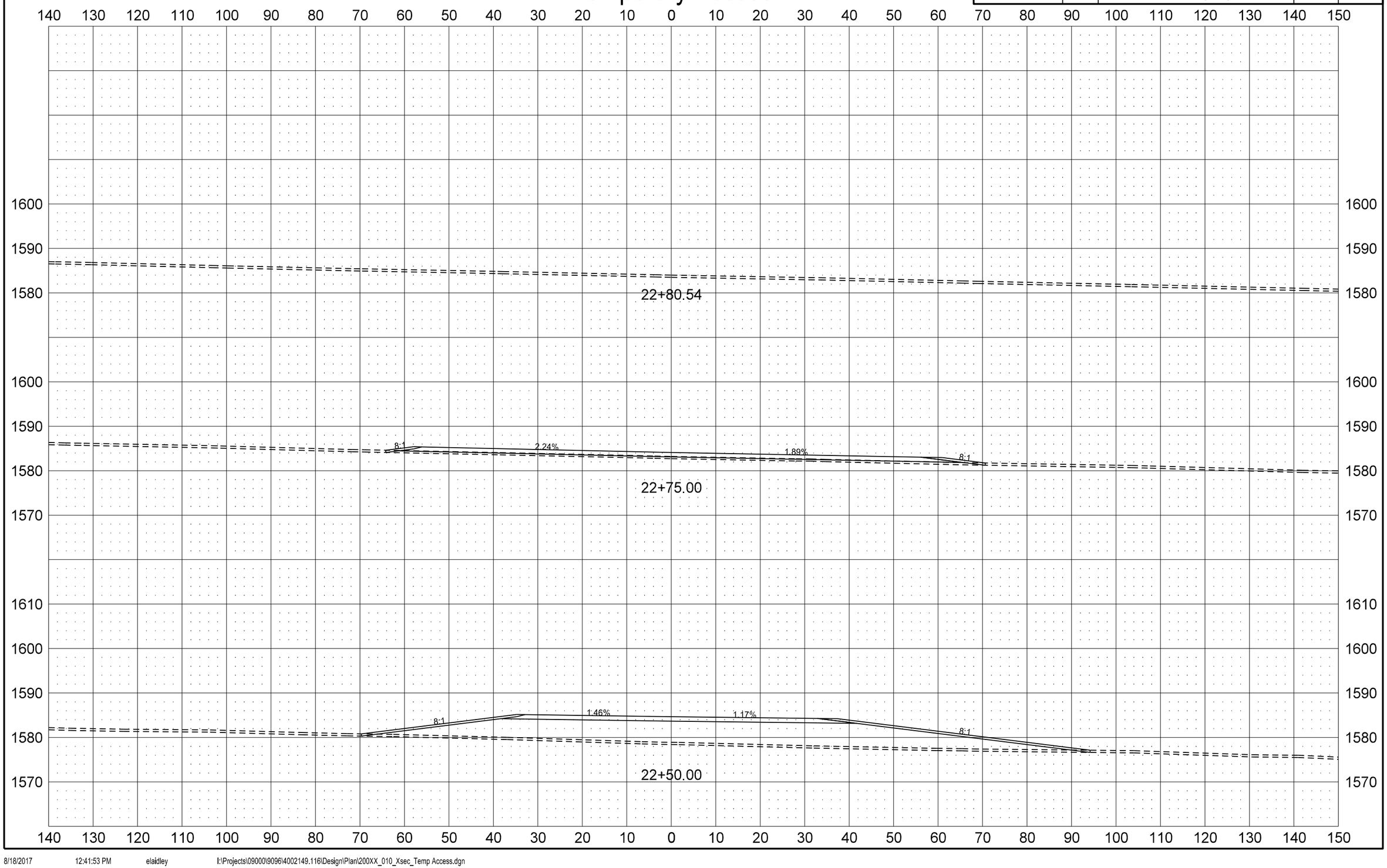
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	120

Temporary Access



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	121

Temporary Access



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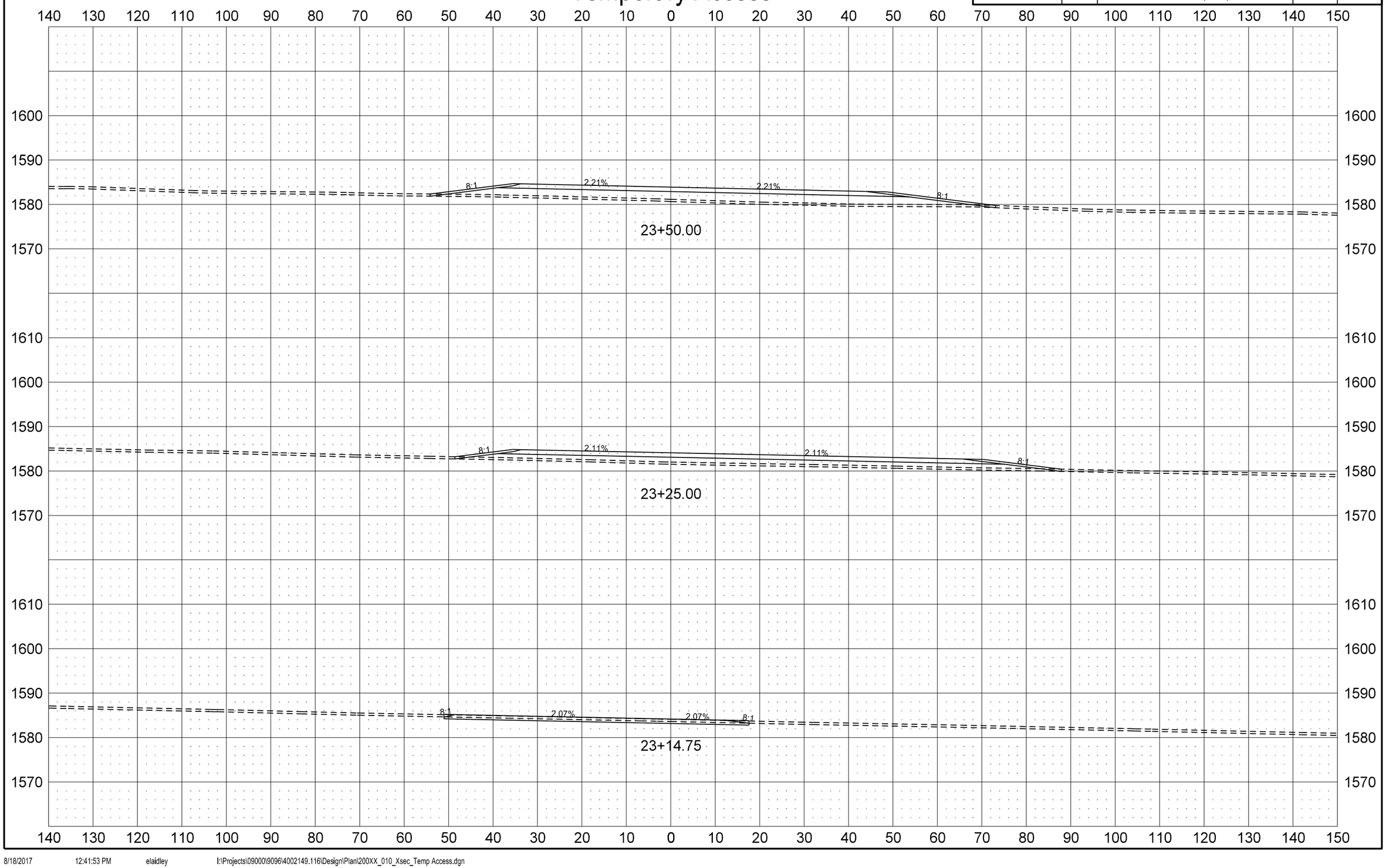
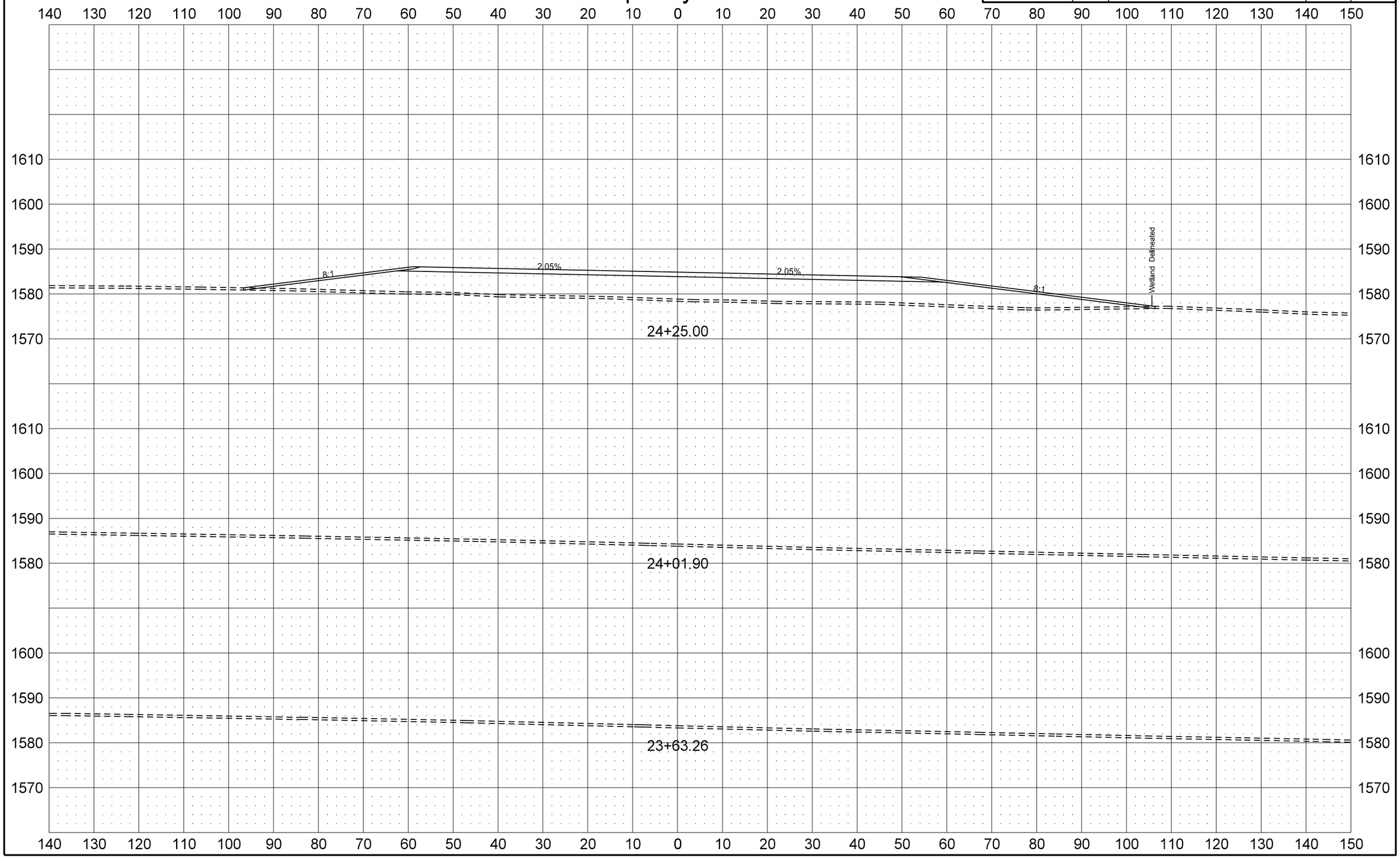
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	122

Temporary Access



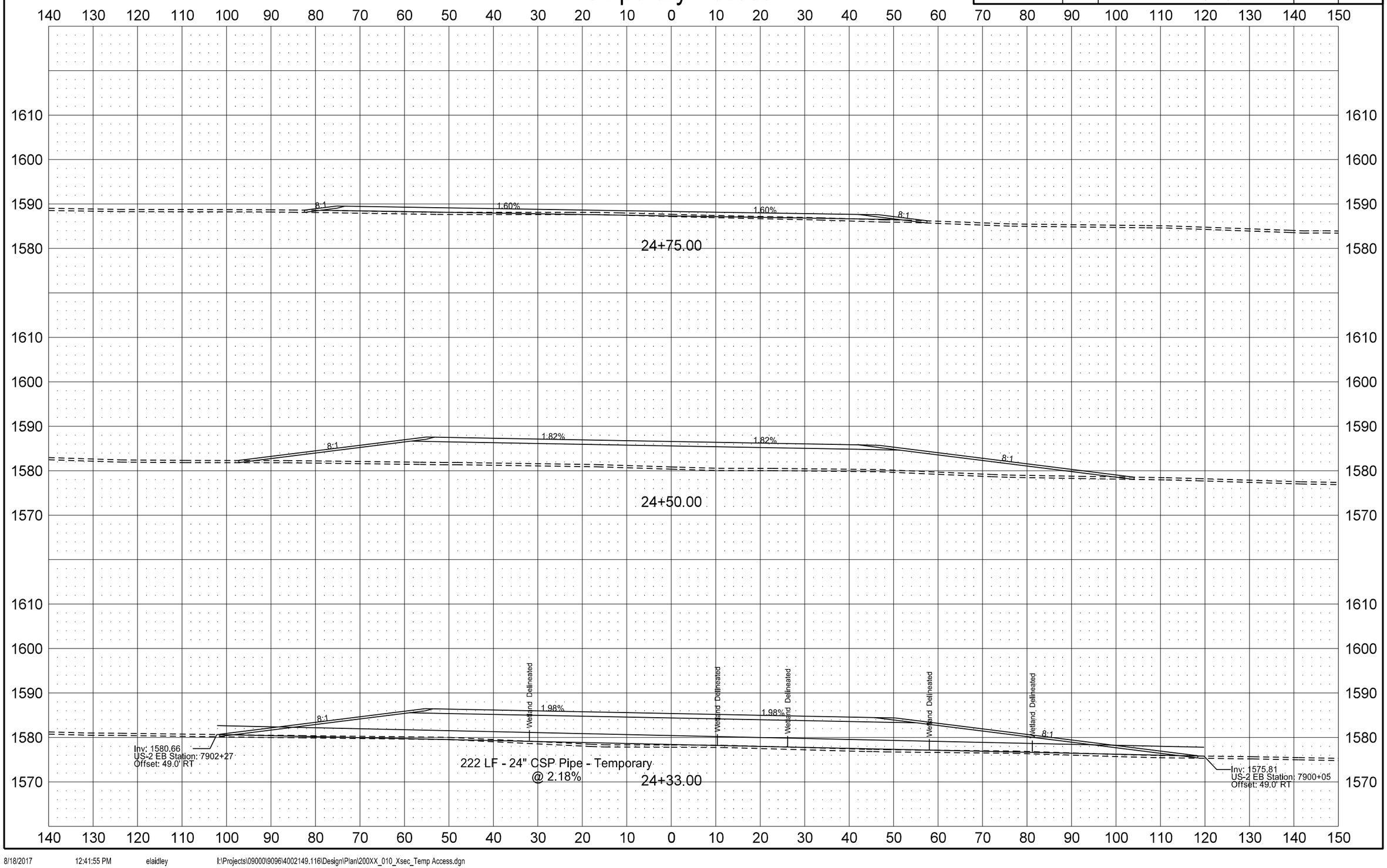
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	123

Temporary Access



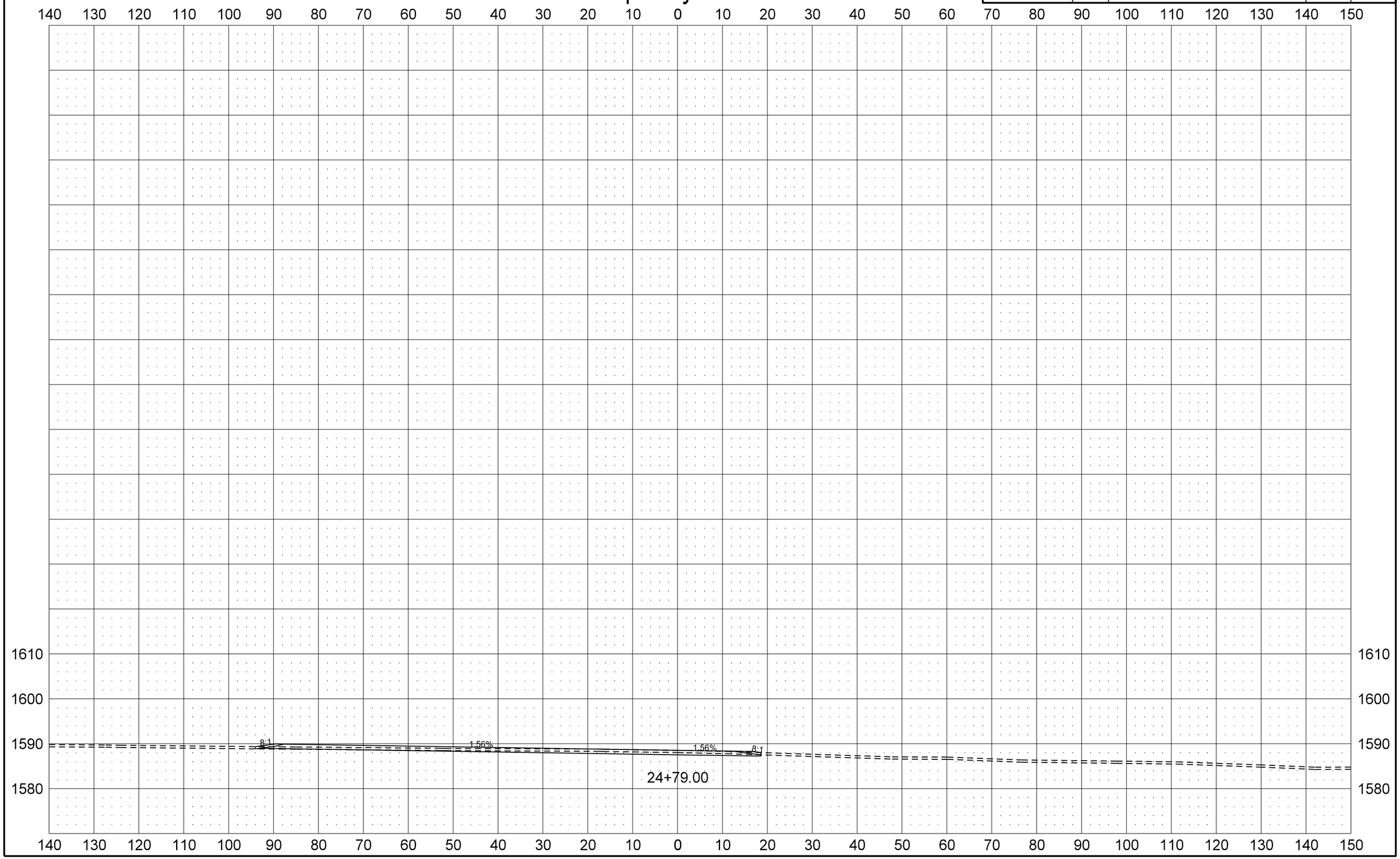
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	124

Temporary Access



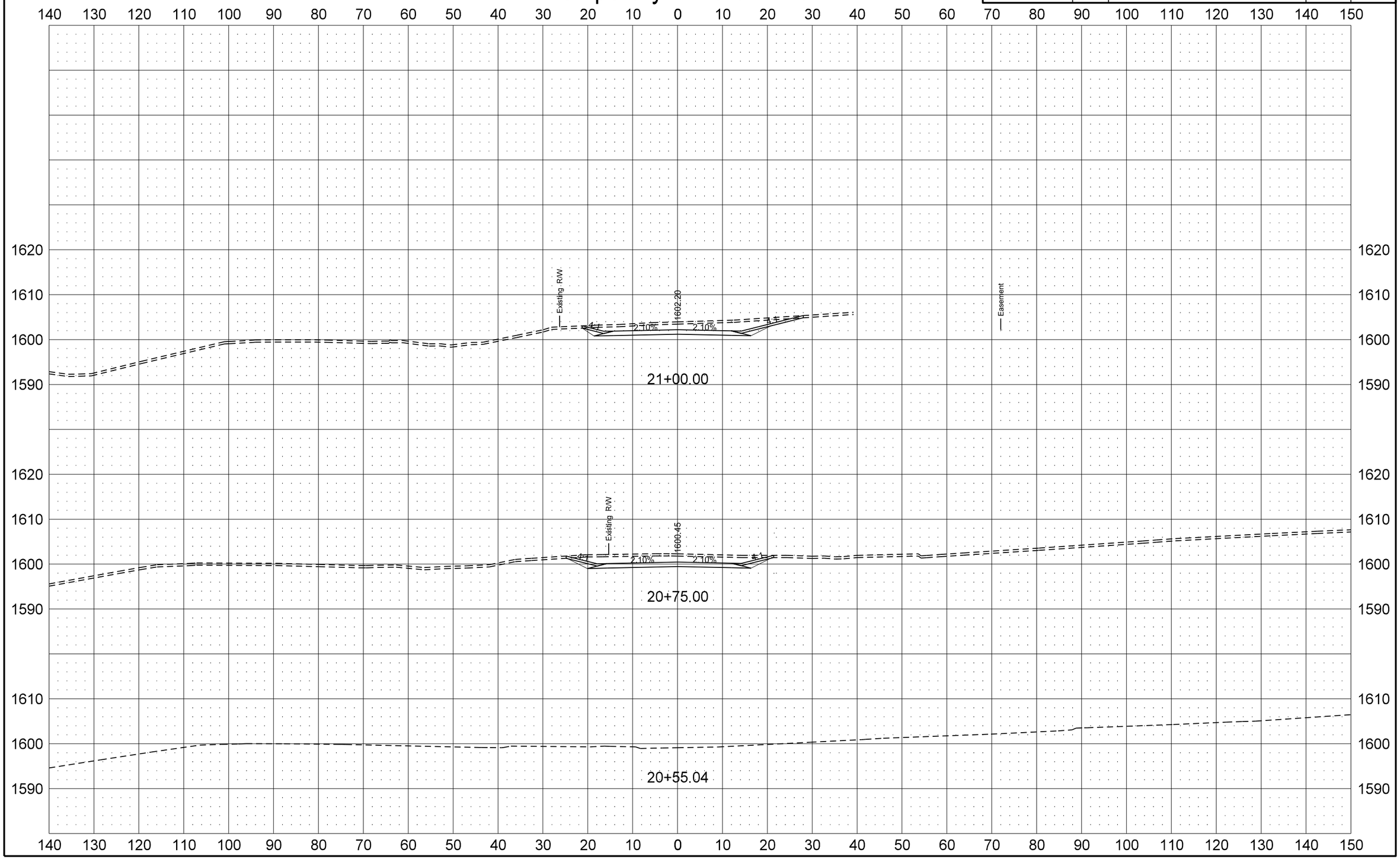
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	125

Temporary Access



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	126

Temporary Private Drive



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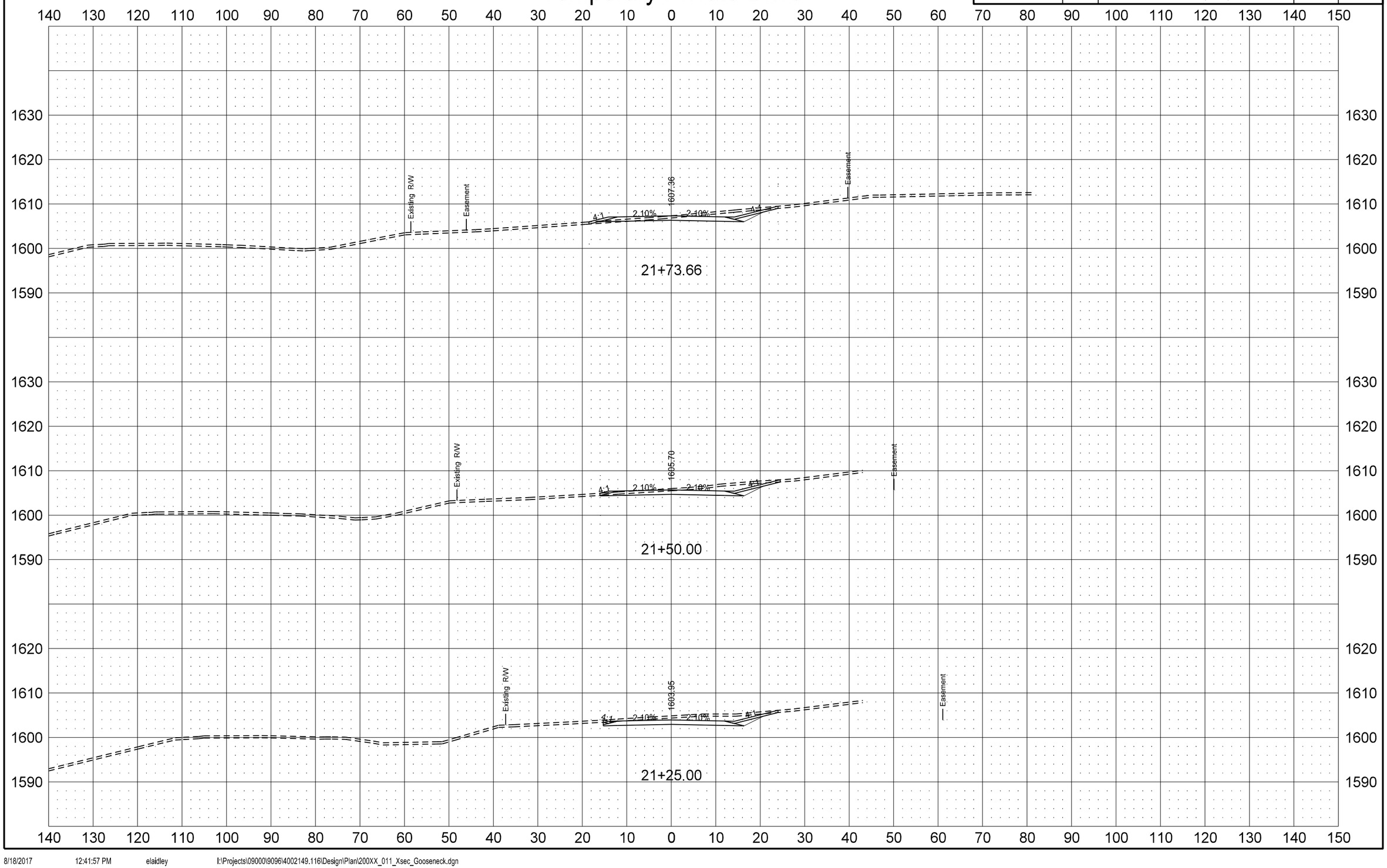
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(116)149	200	127

Temporary Private Drive