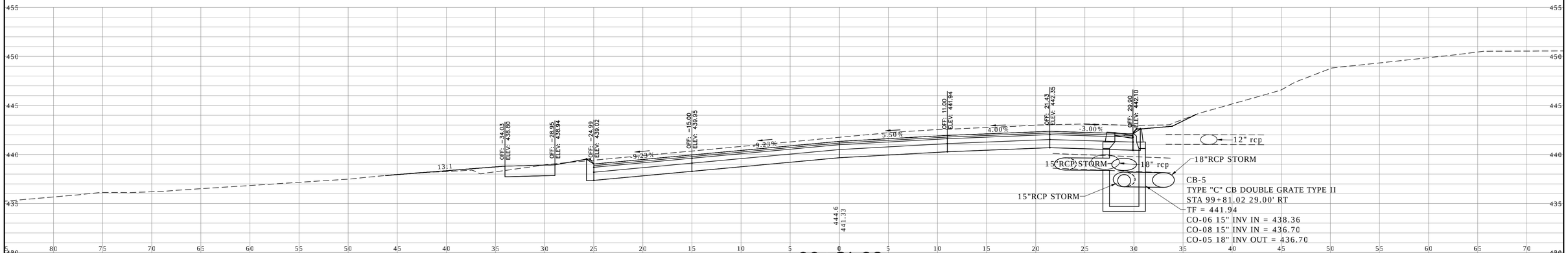

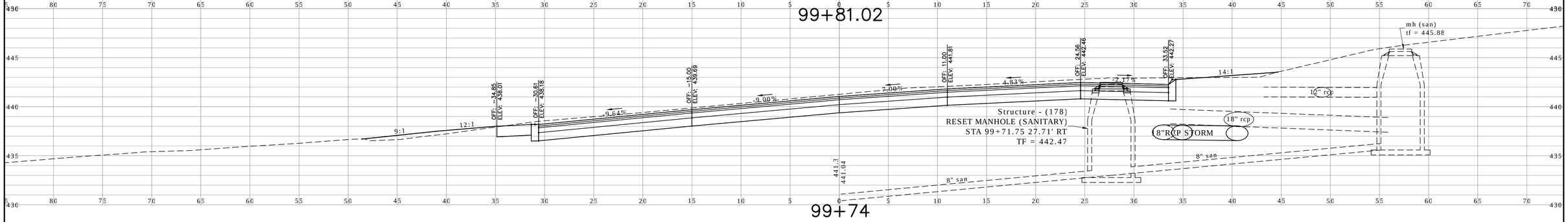

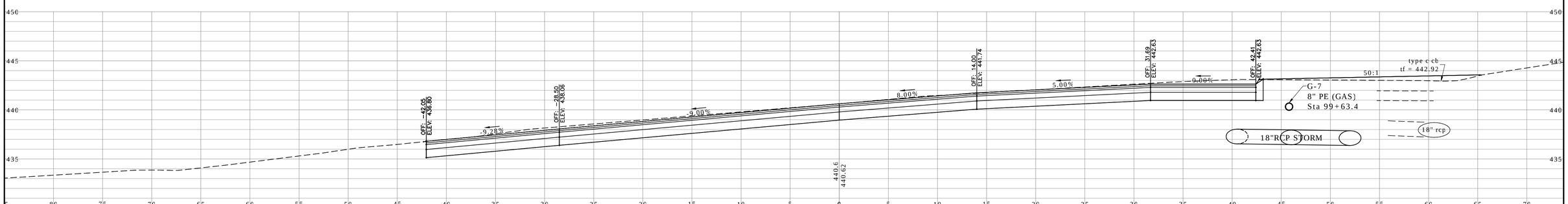

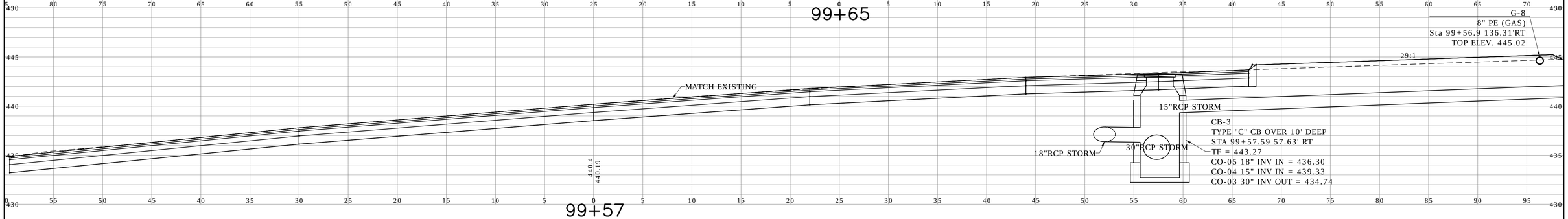

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 01

SHEET NO. 03 20

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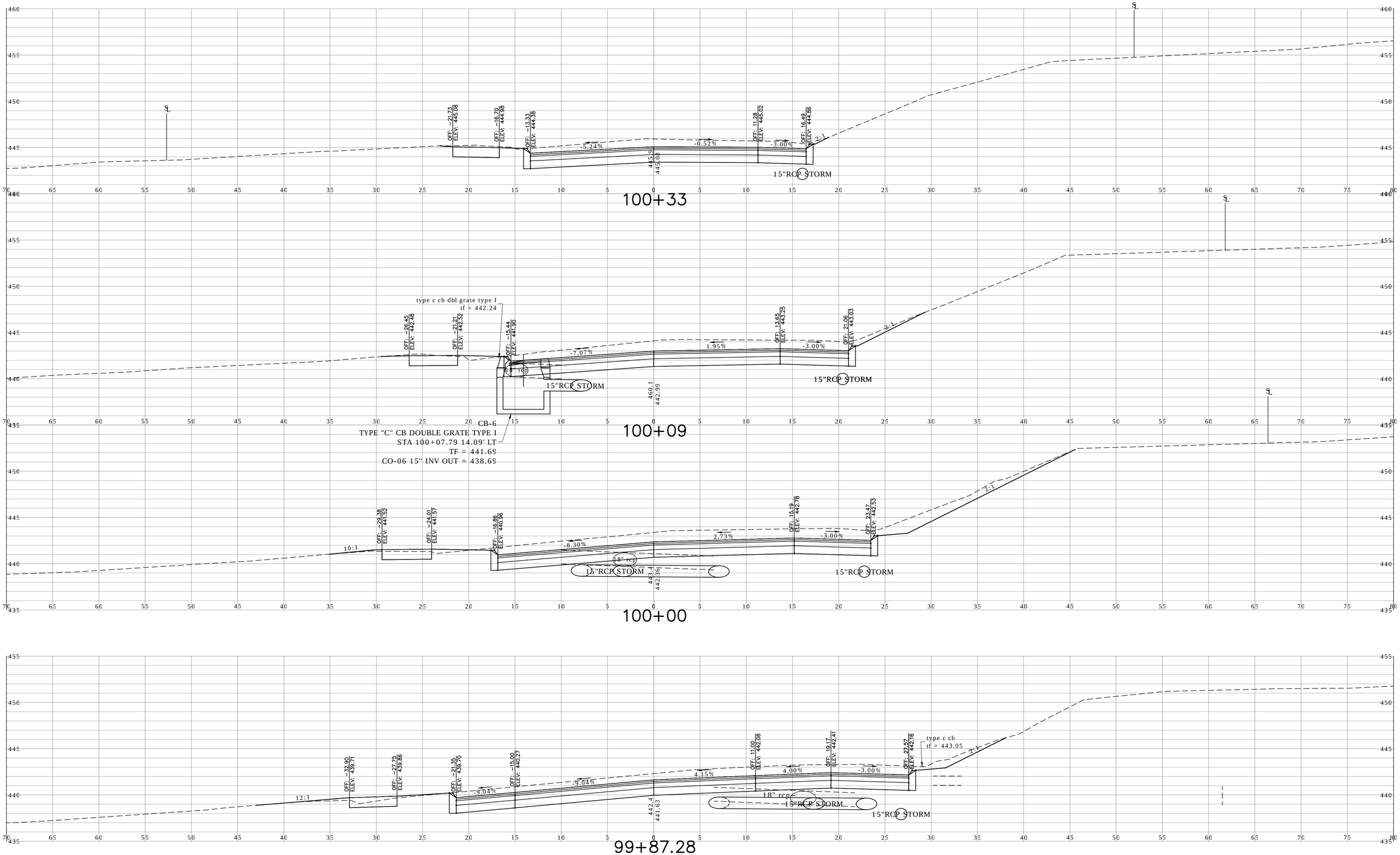

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 02

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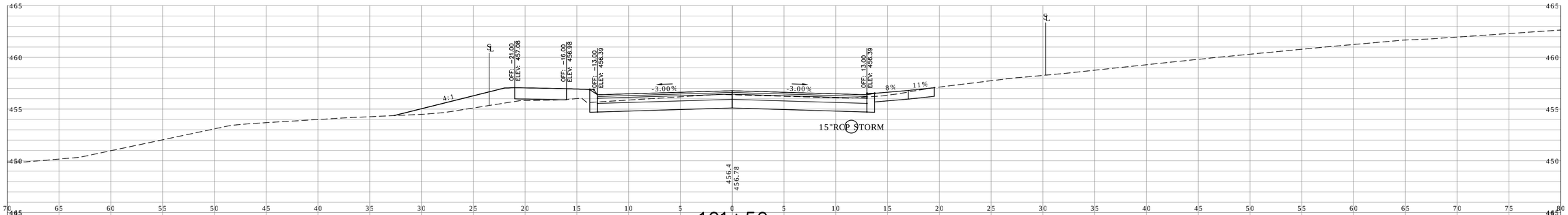

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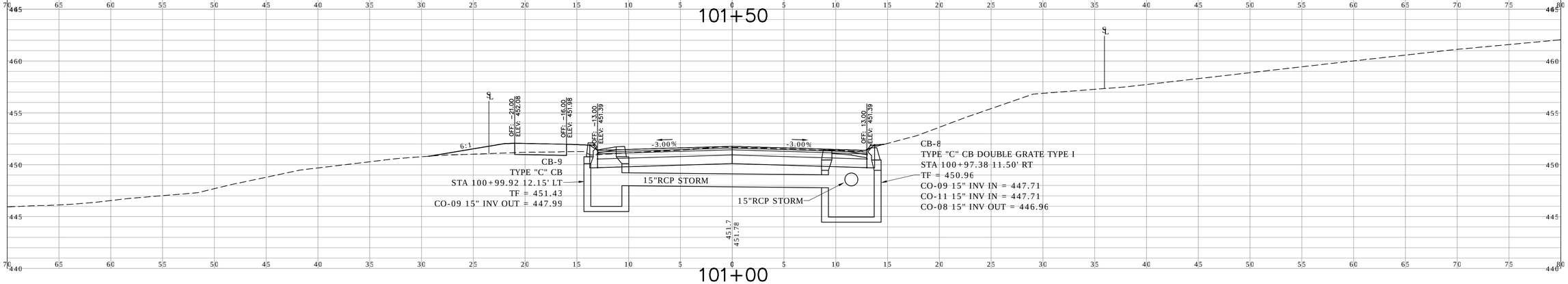

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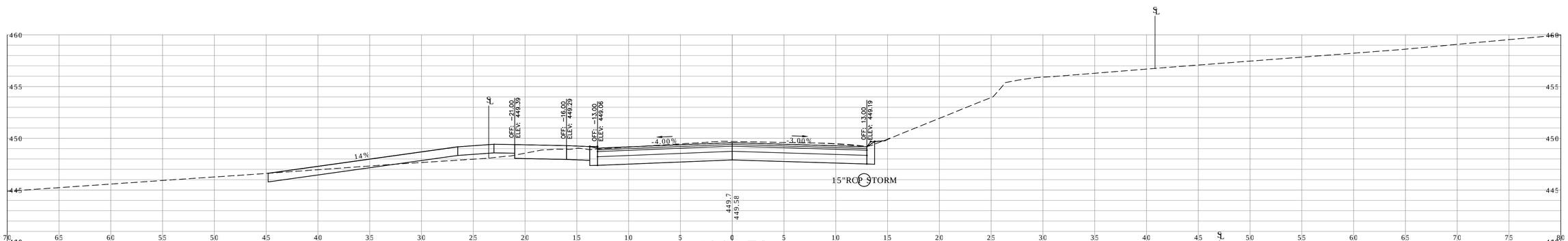

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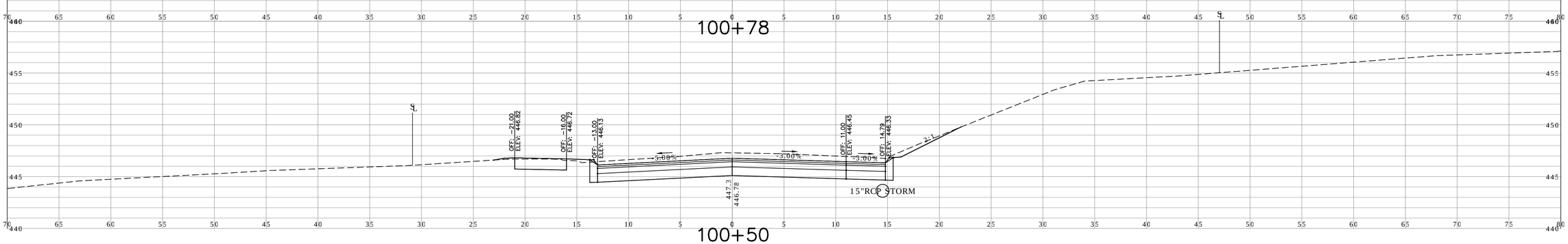

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

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3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 03

SHEET NO. 03 22

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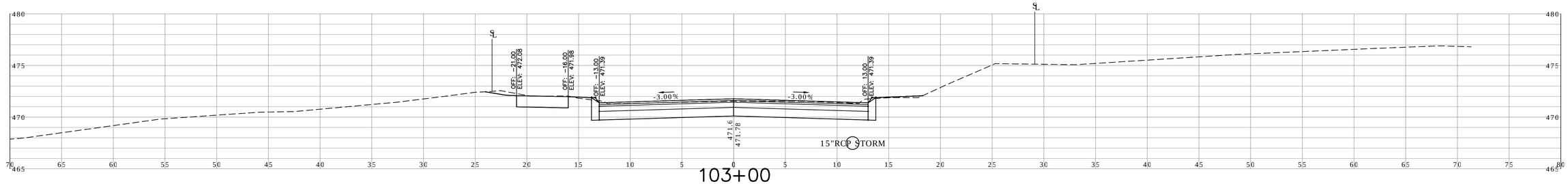

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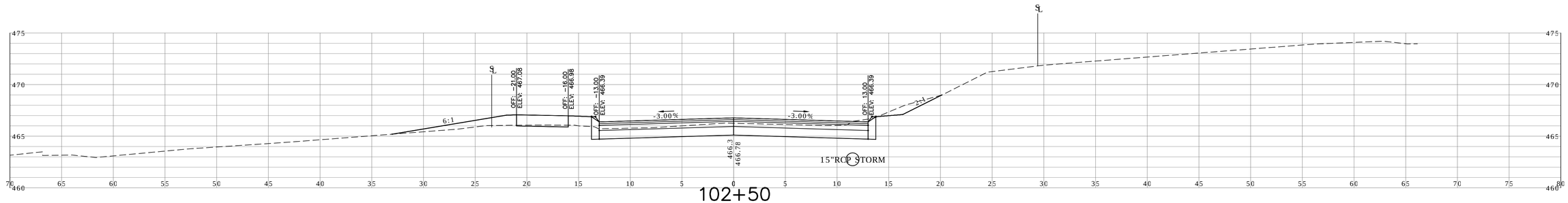

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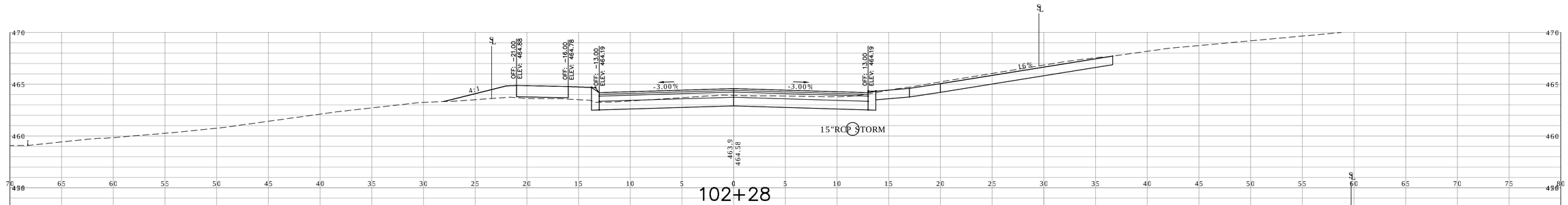

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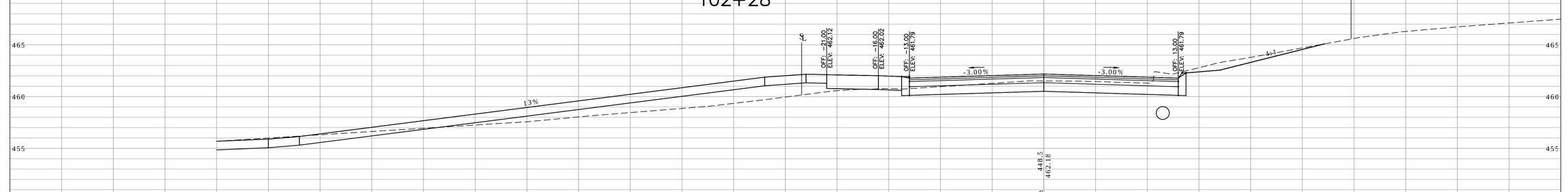

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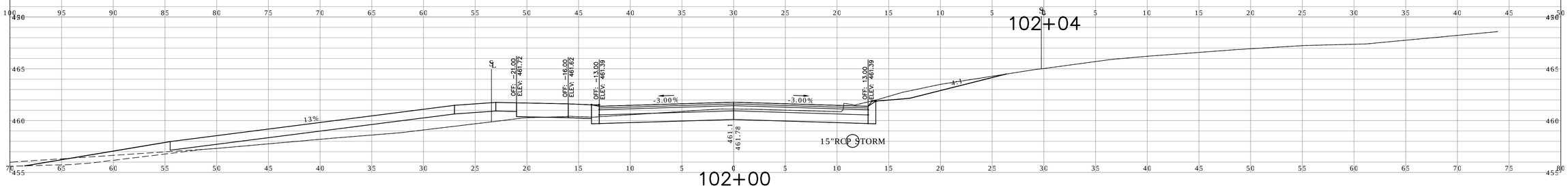

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 04

SHEET NO. 03 23

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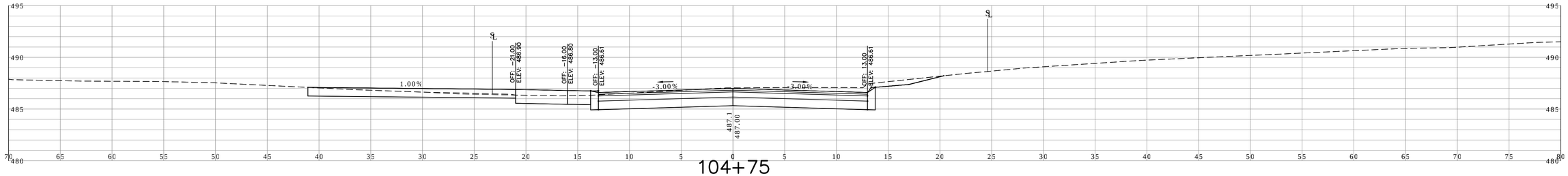

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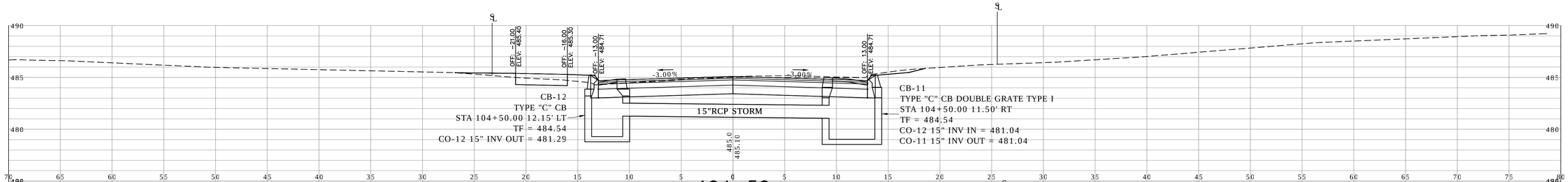

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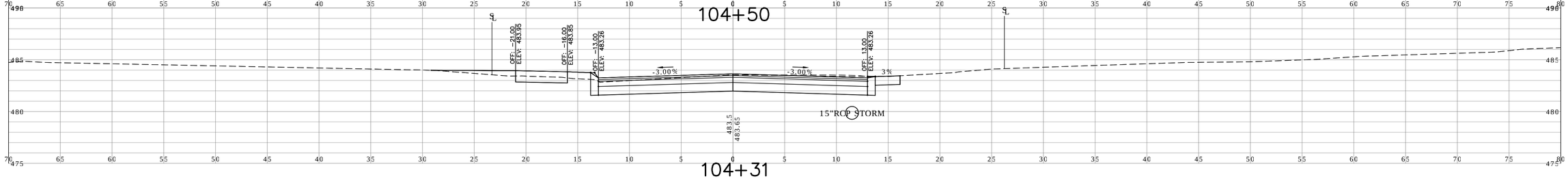

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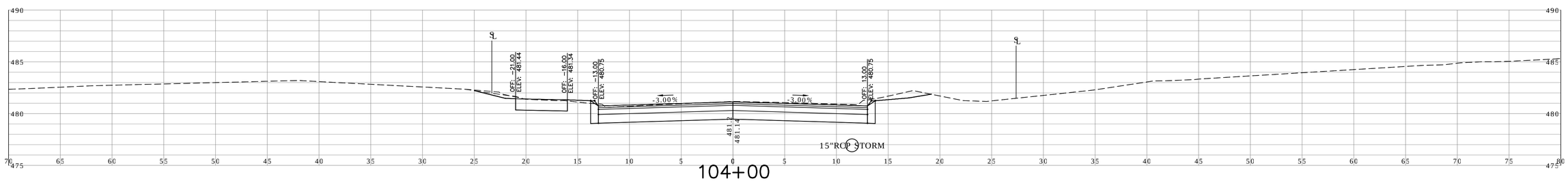

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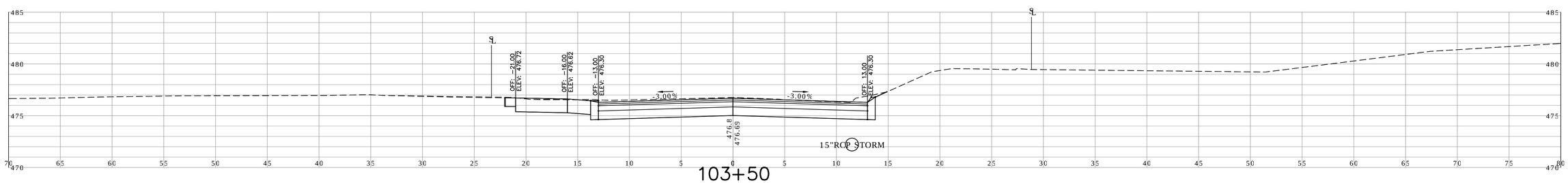

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

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3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 05

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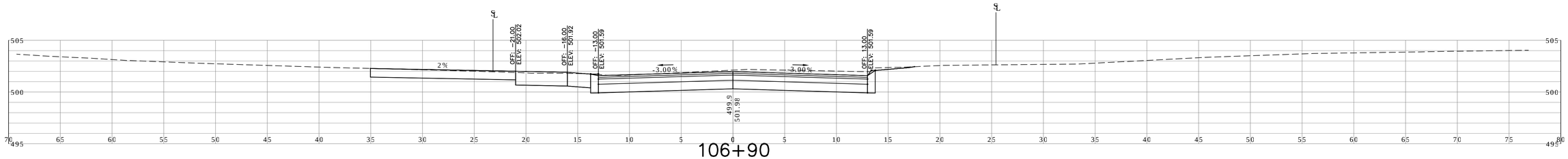

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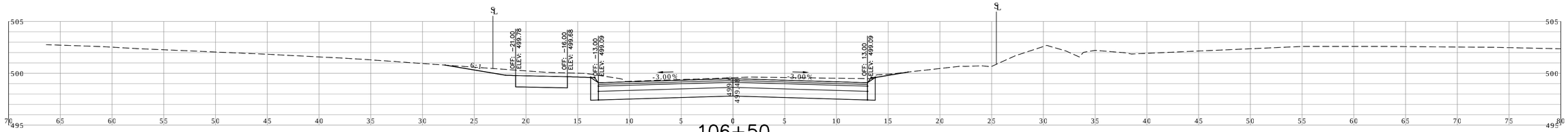

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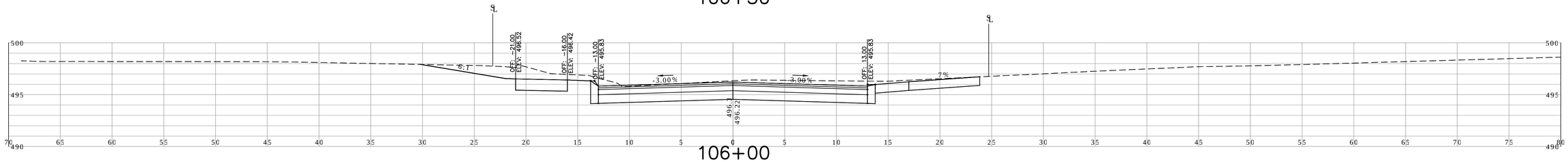

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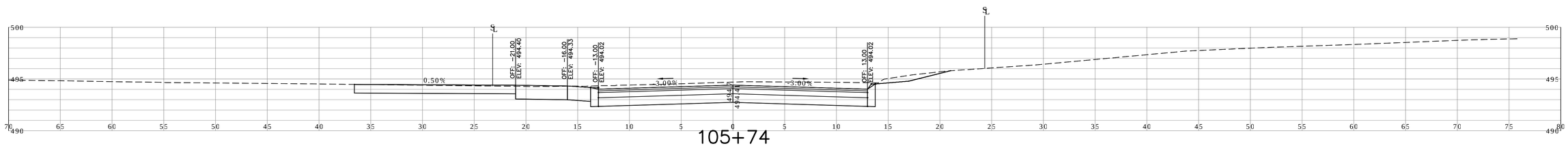

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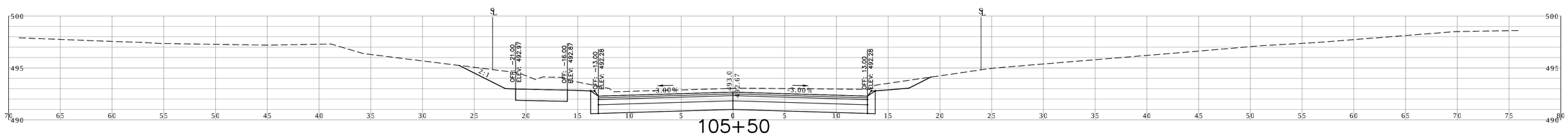

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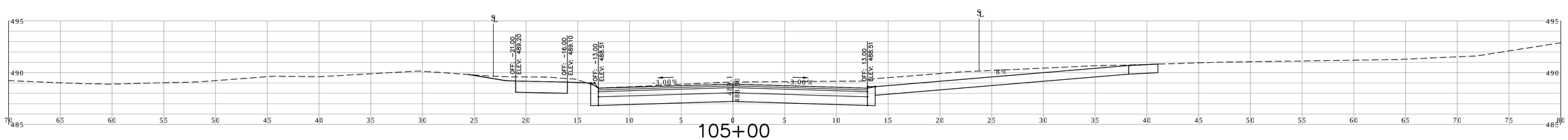

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DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 06

SHEET NO. 03 25

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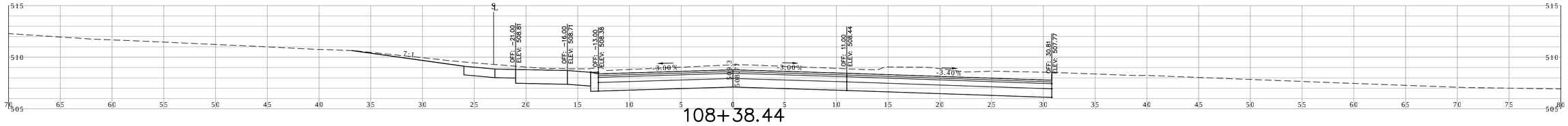

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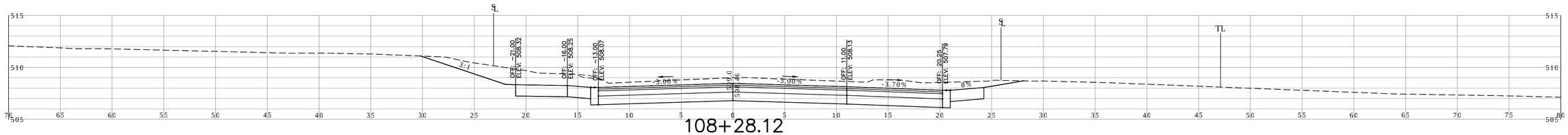

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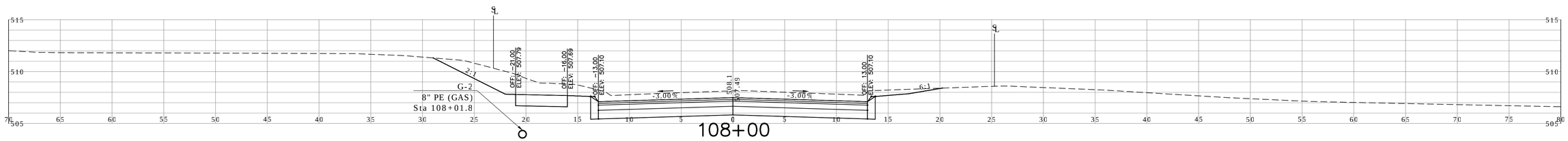

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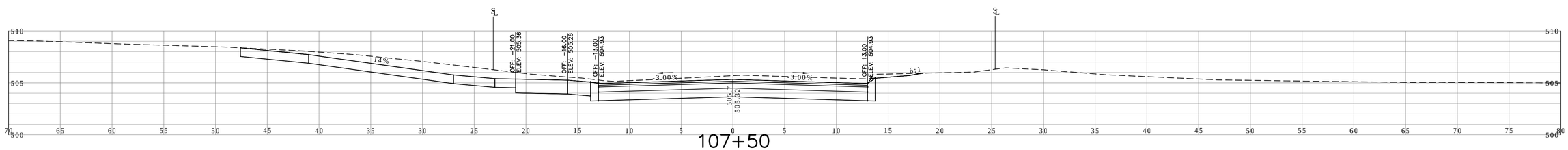

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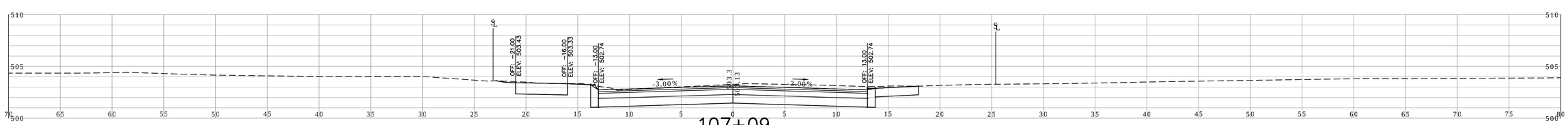

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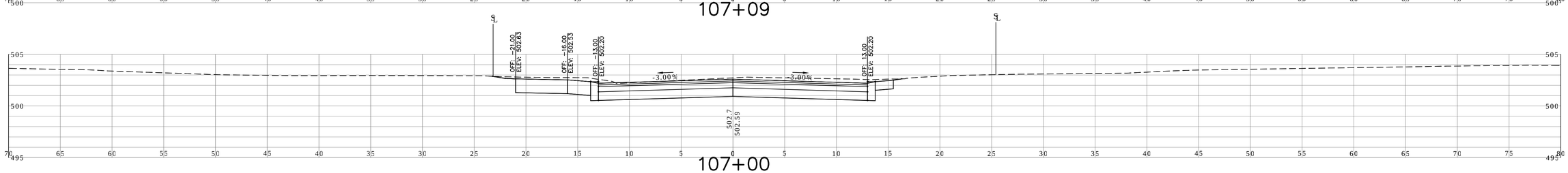

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CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

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3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

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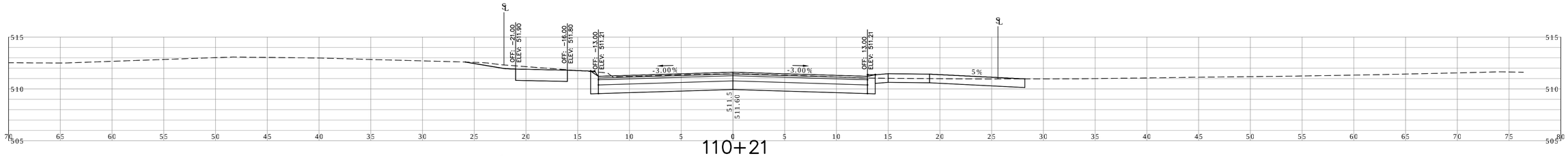

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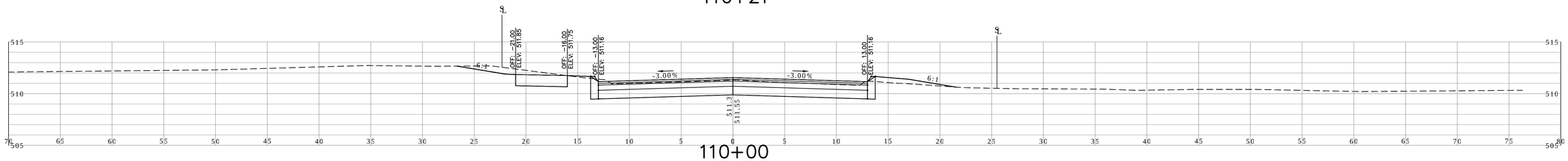

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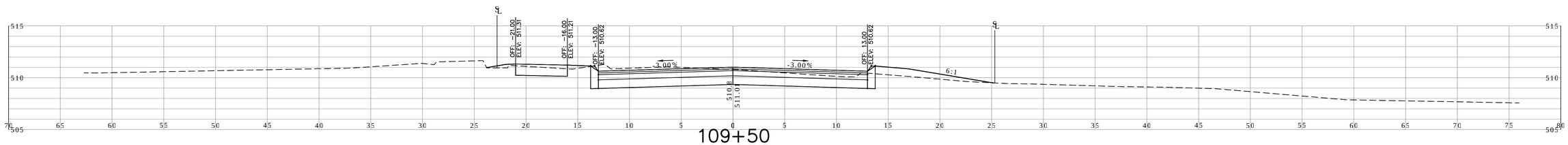

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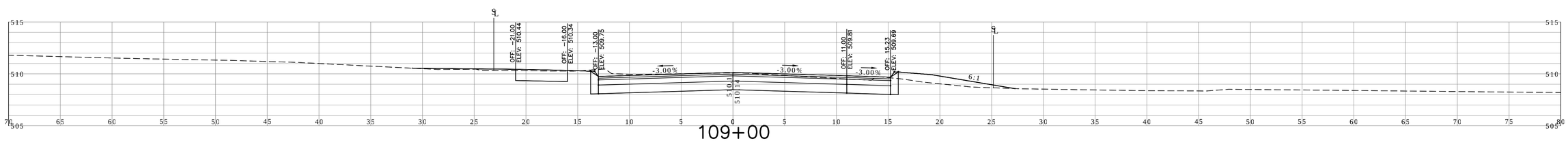

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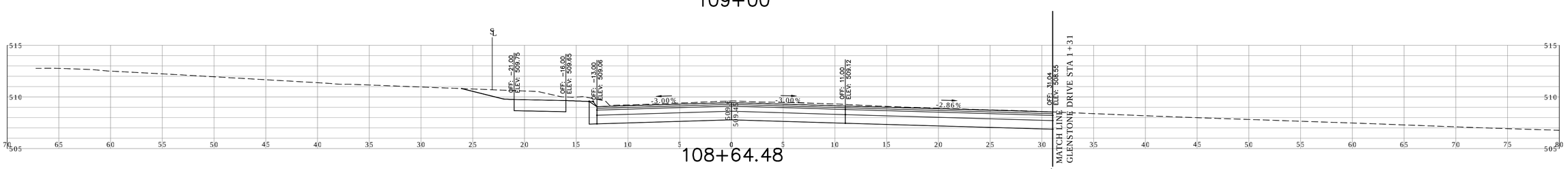

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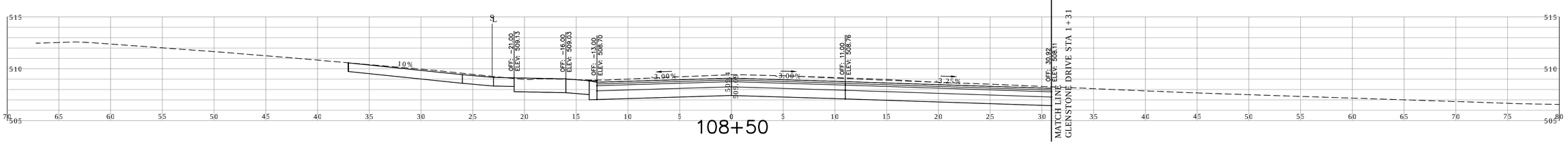

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SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 08

SHEET NO. 03 27

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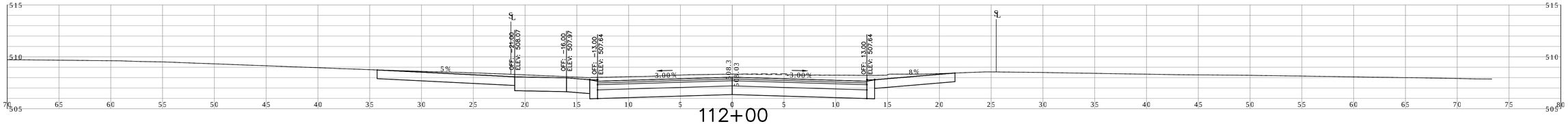

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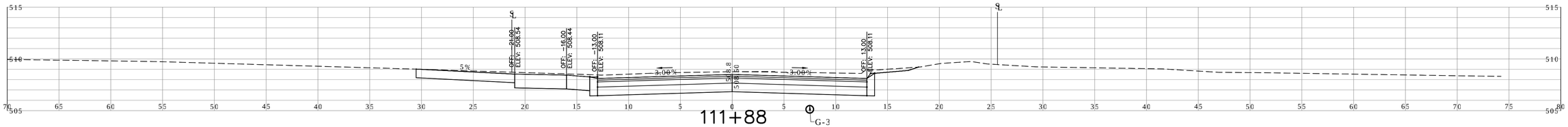

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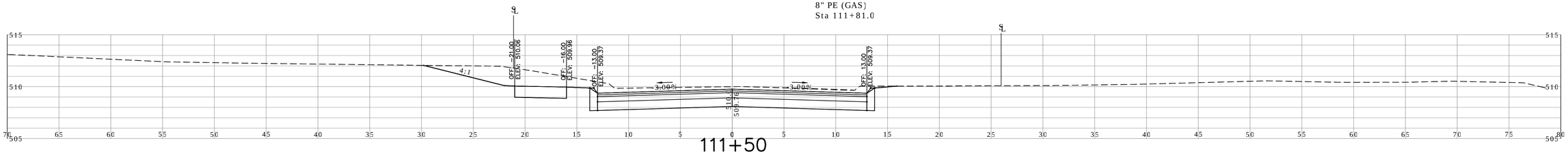

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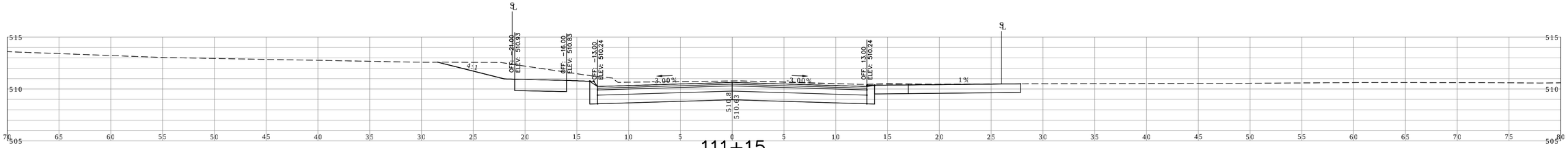

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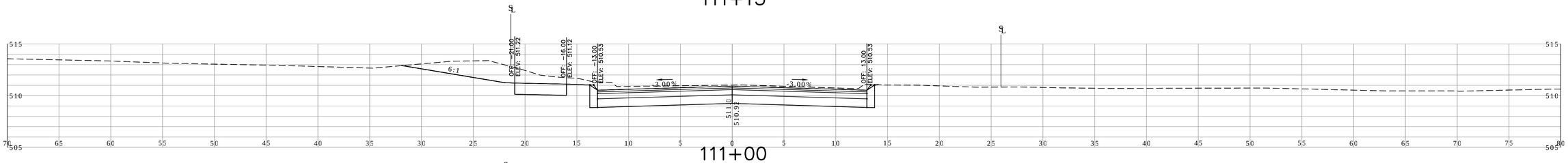

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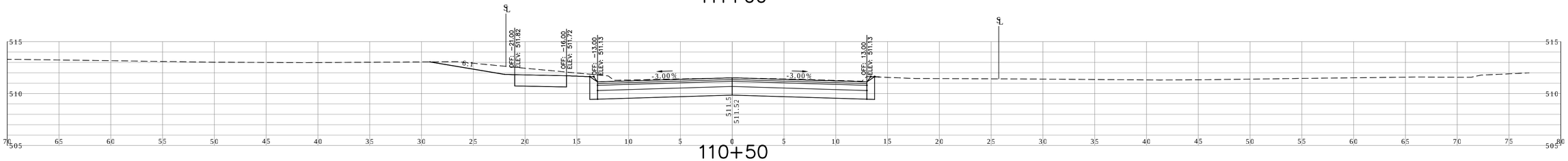

110+50

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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME
SCALE IN FEET 0 5 10
SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195
DRAWING NO. XSC 09
SHEET NO. 03 28

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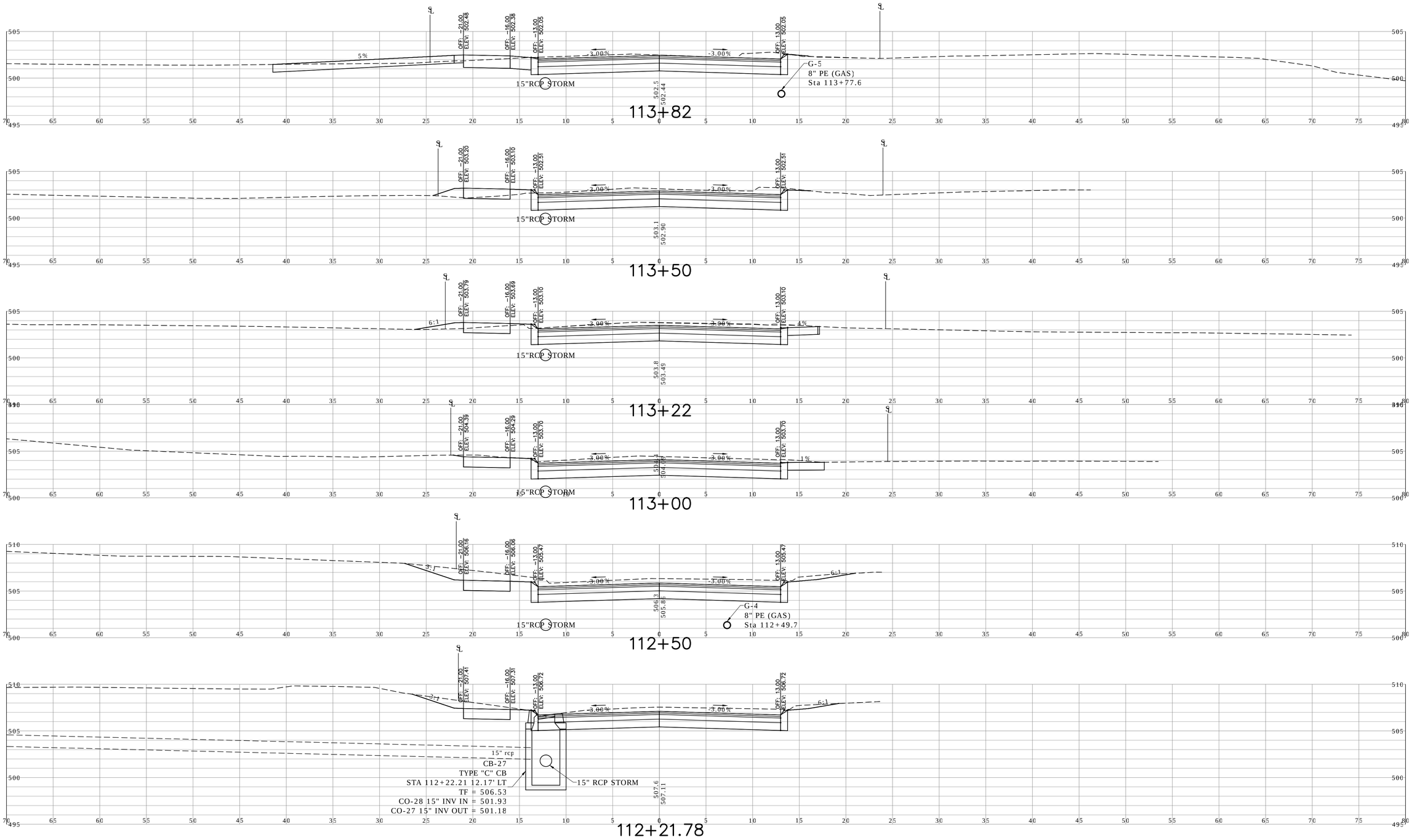

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 10

SHEET NO. 03 29

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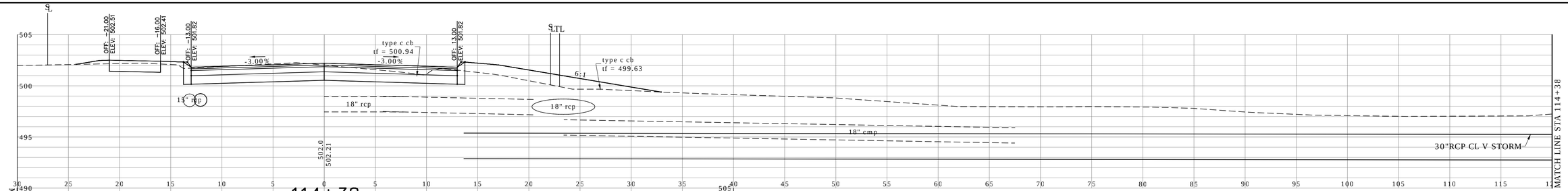

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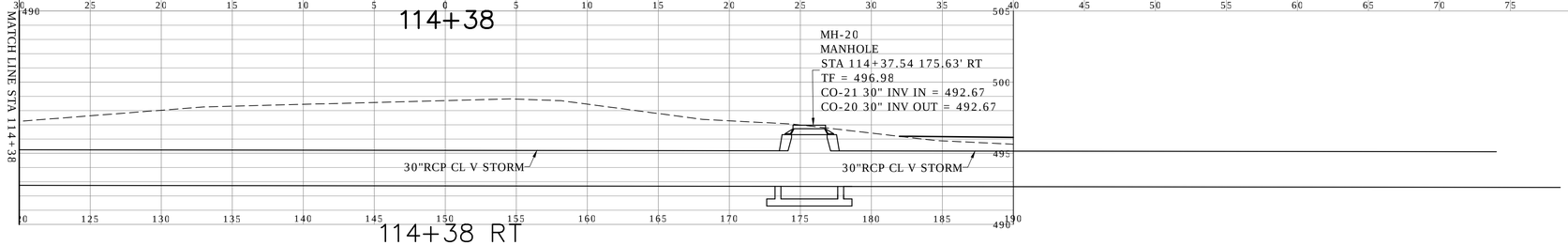

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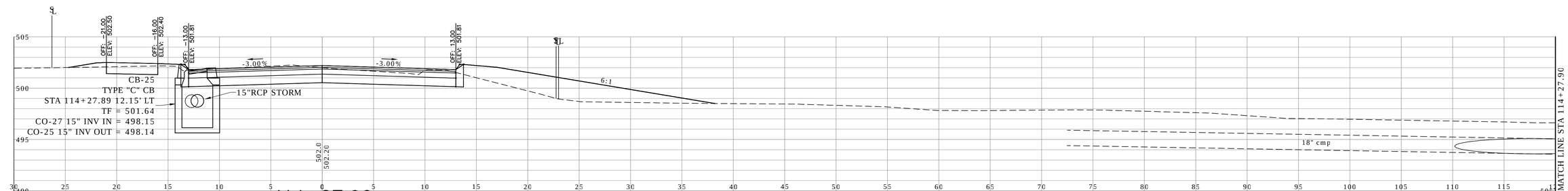

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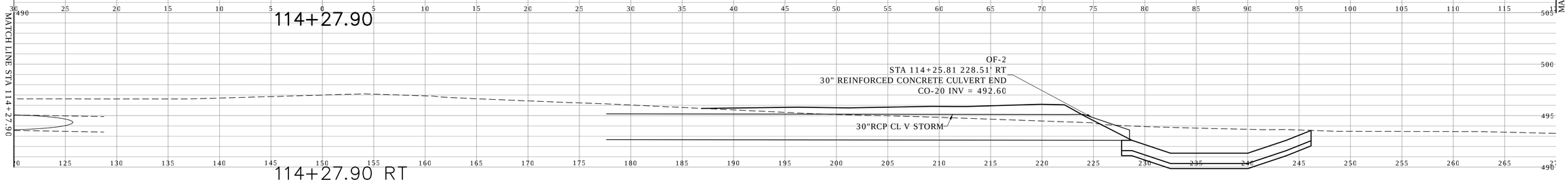

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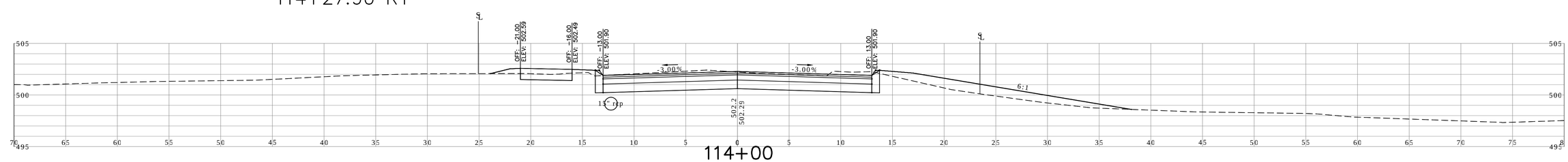

114+00

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 11

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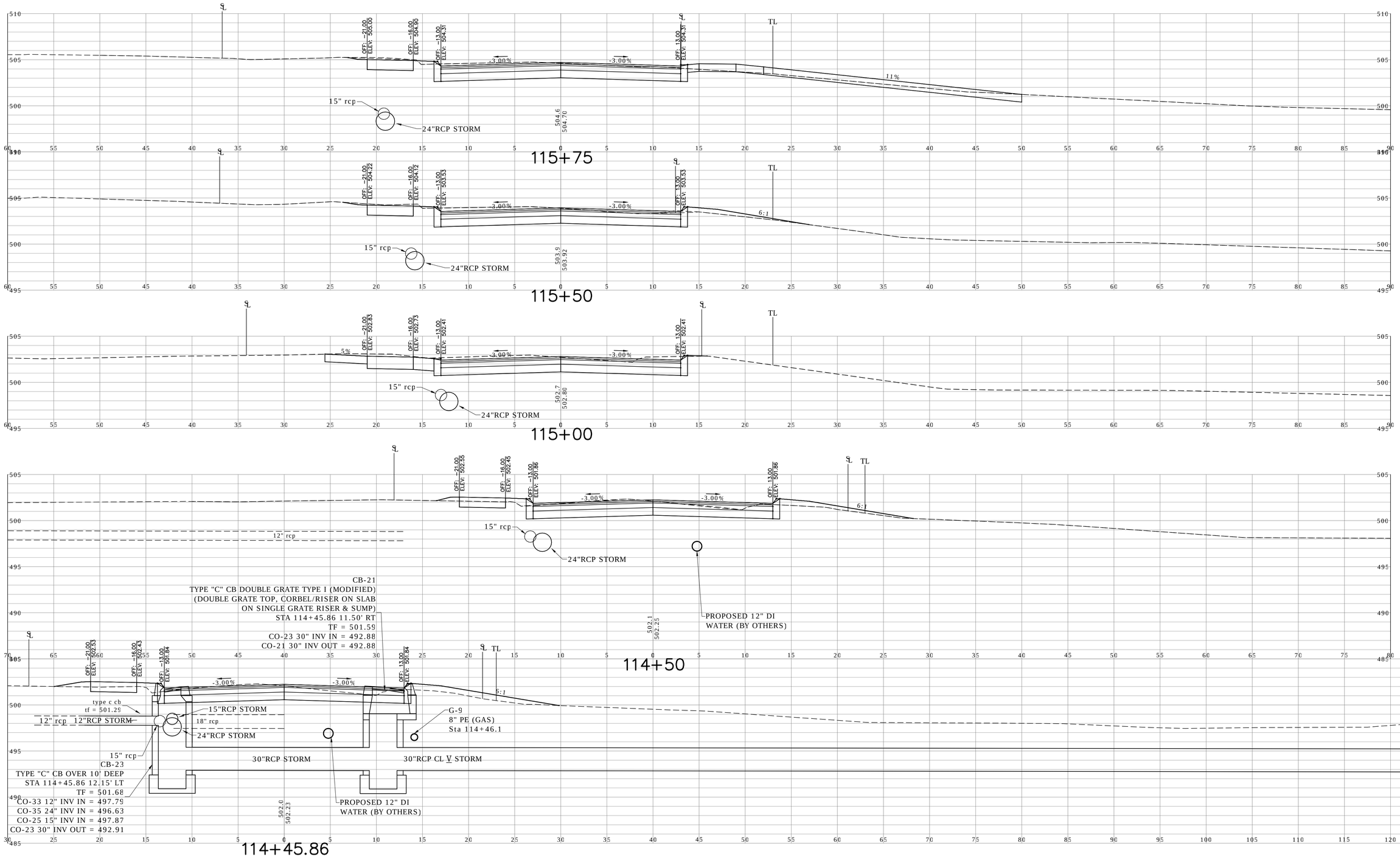

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DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 12

SHEET NO. 03 31

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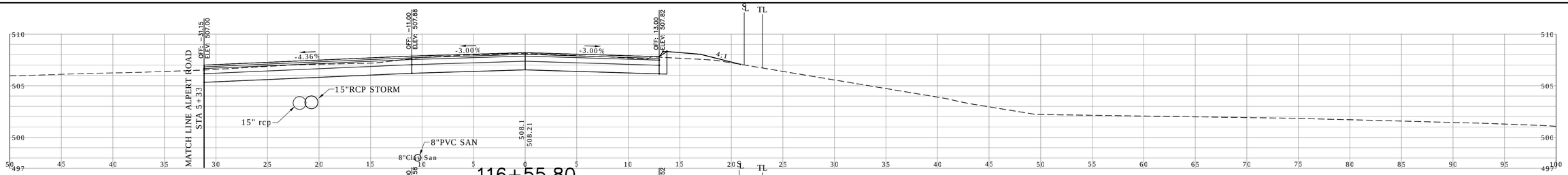

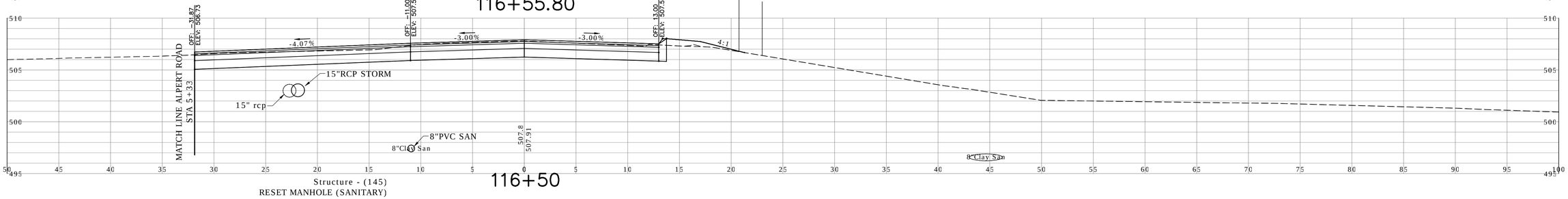

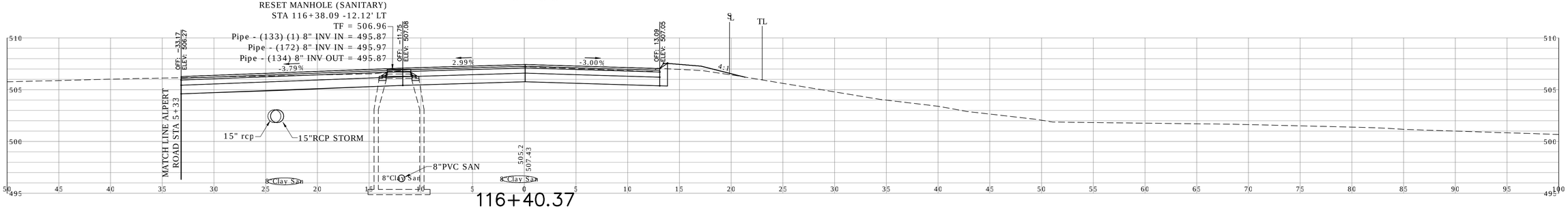

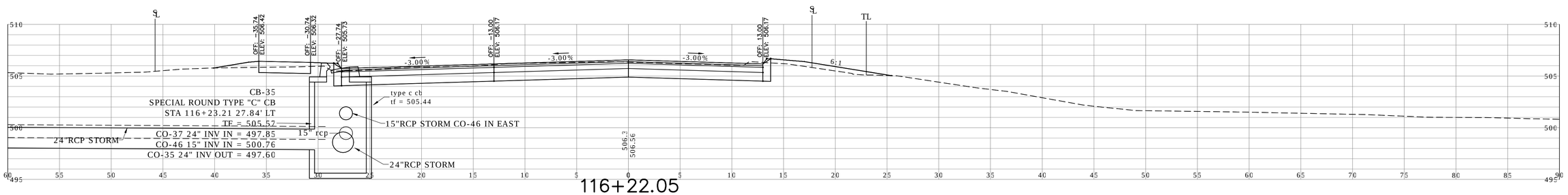

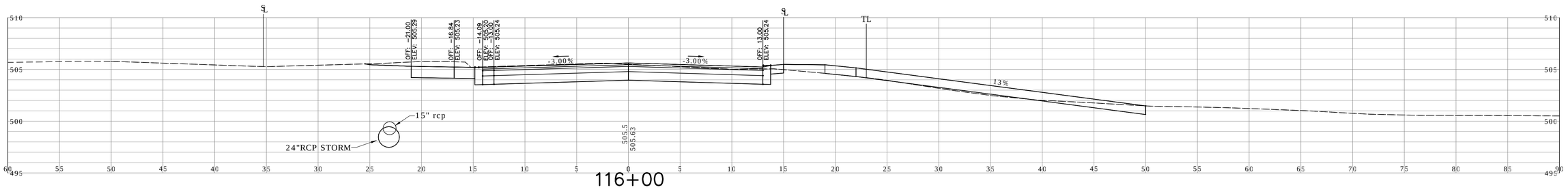

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME
SCALE IN FEET 0 5 10
SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195
DRAWING NO. XSC 13
SHEET NO. 03 32

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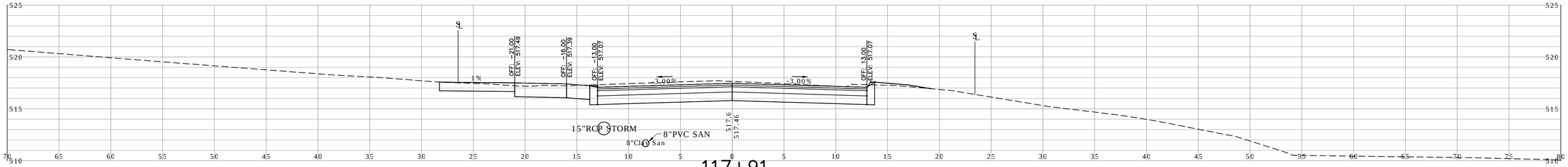

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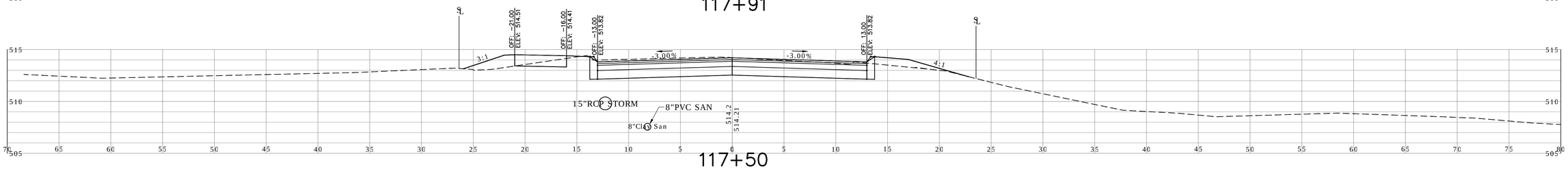
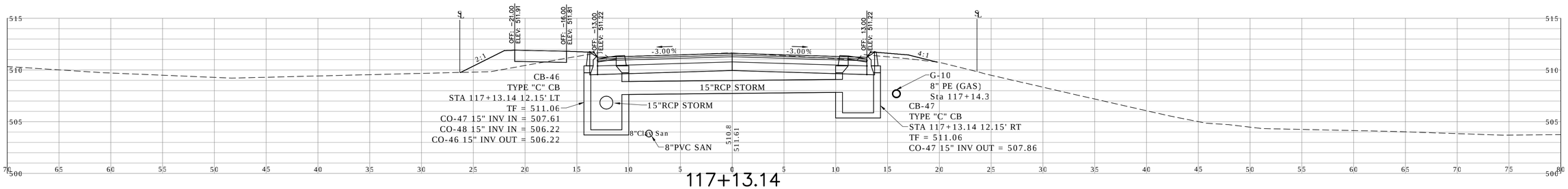


117+50



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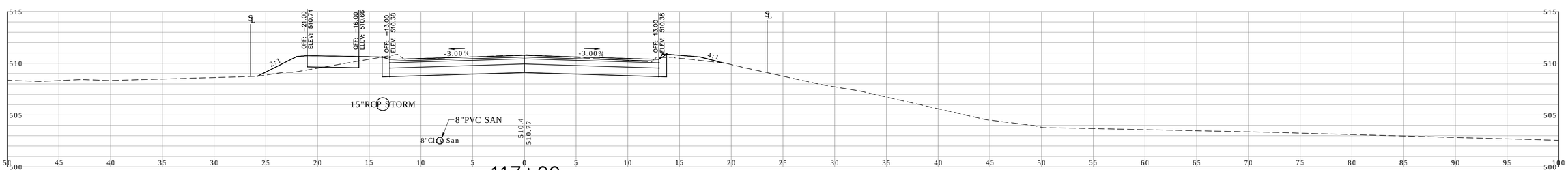

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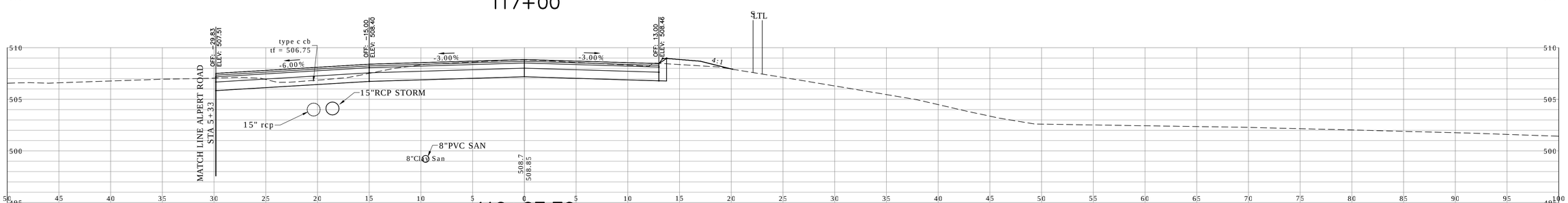

116+67.70

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 14

SHEET NO. 03 33

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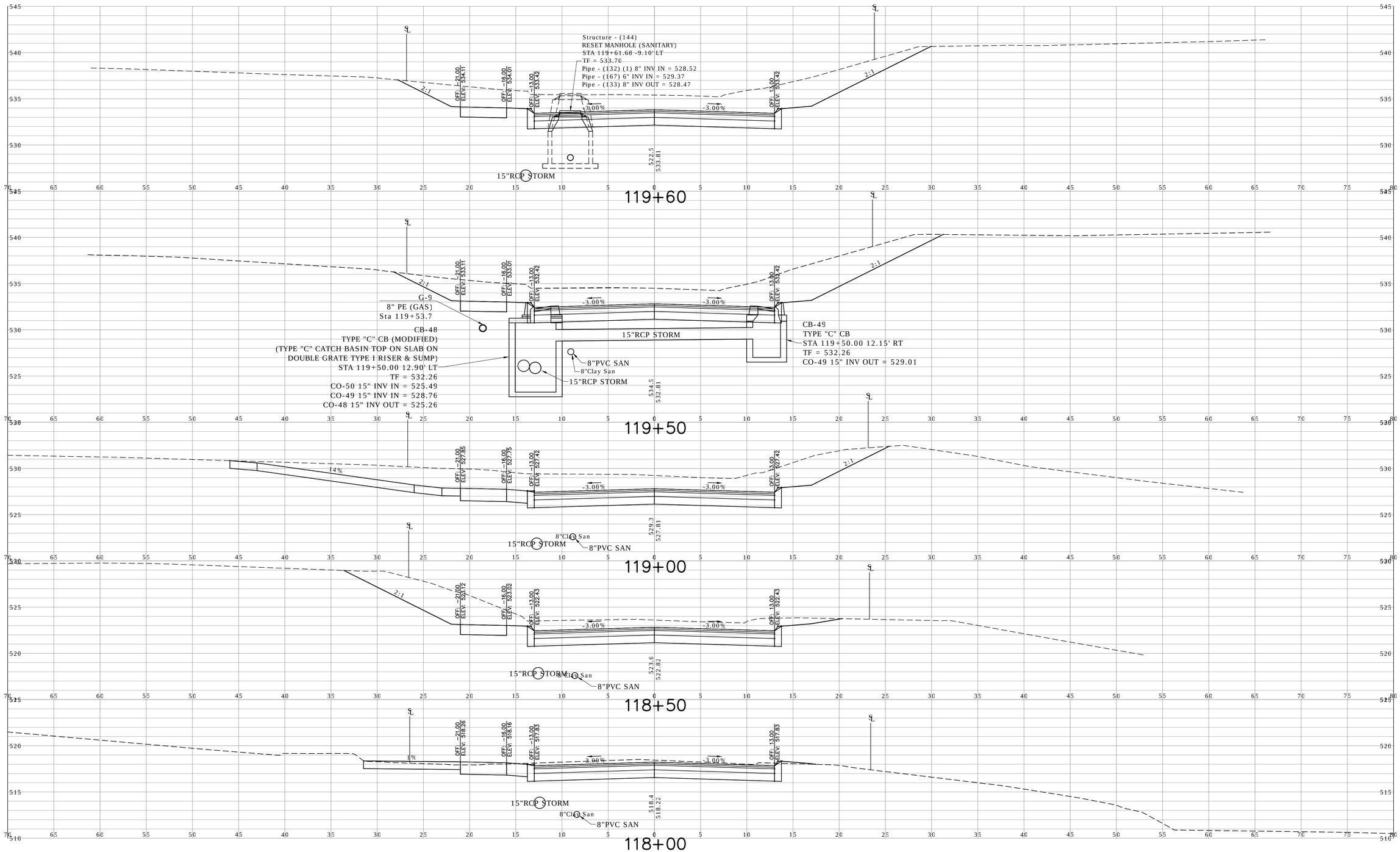

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SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 15

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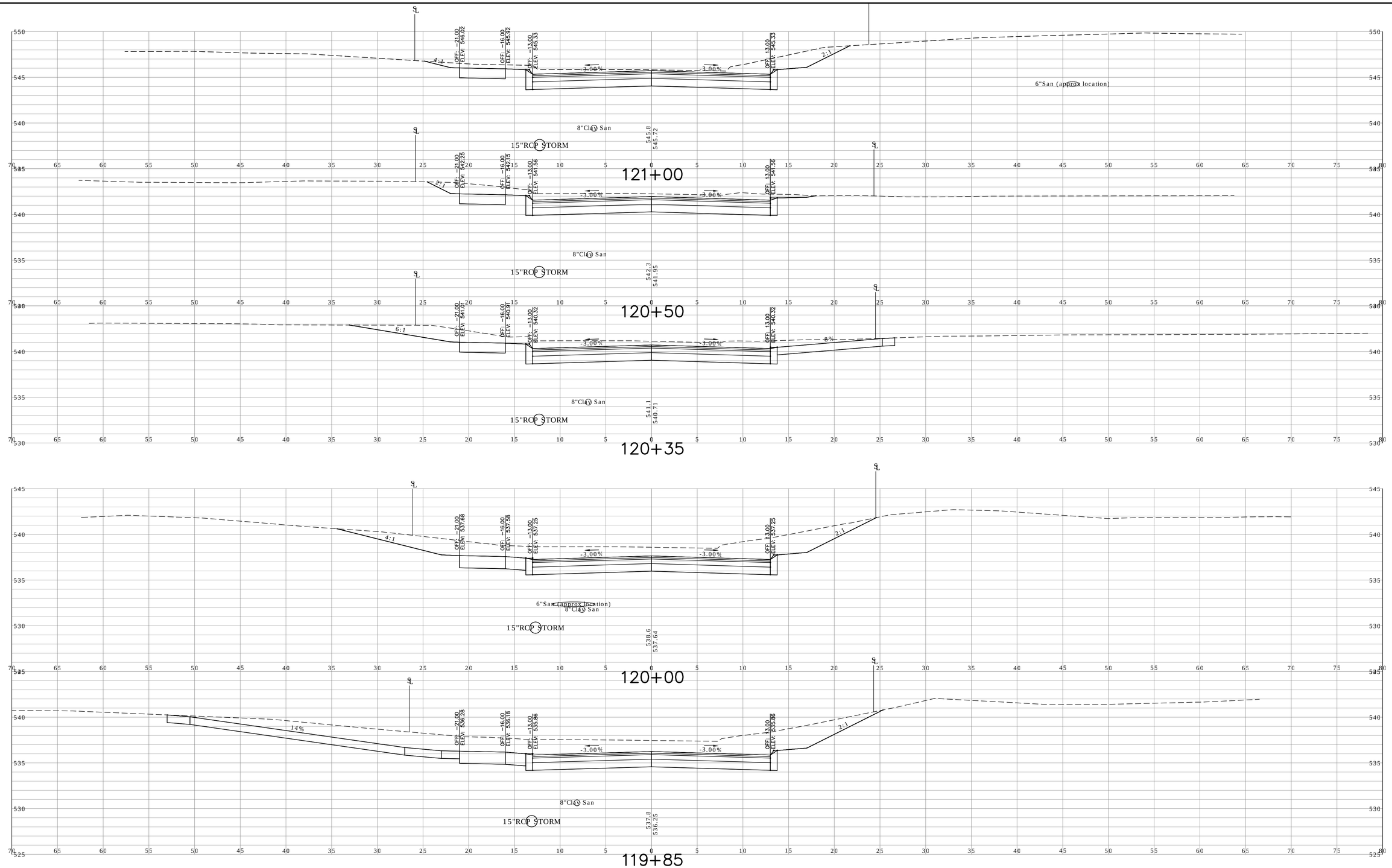

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CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 16

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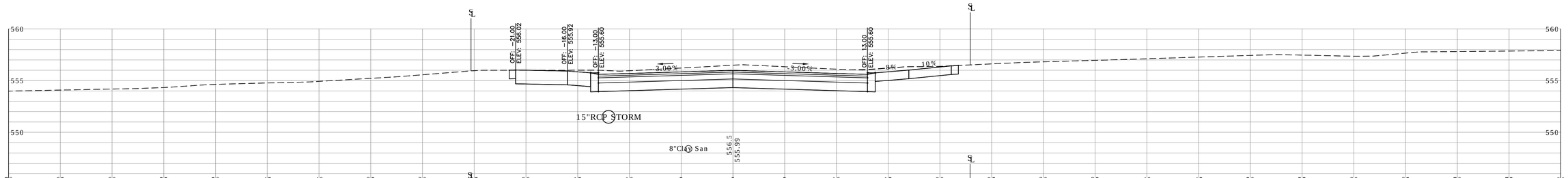

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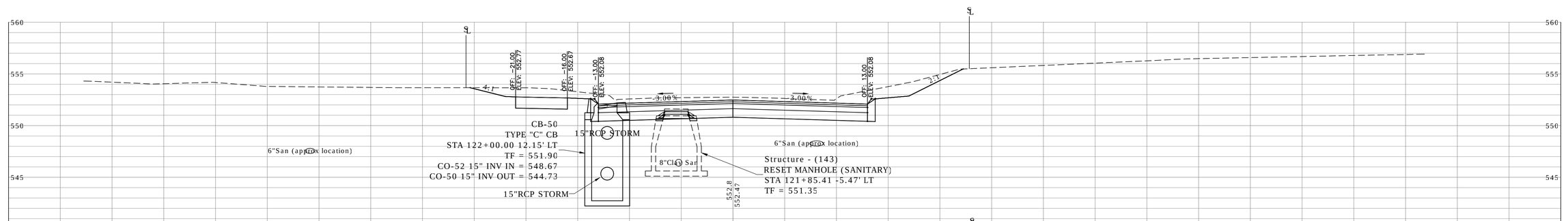
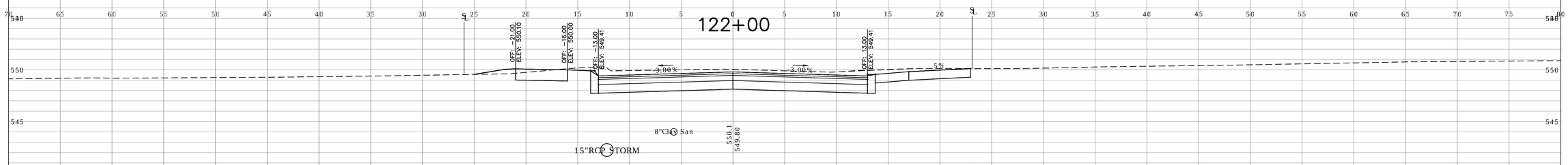
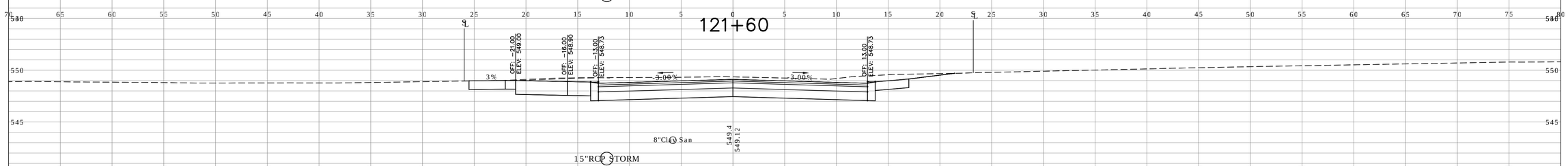
122+50



122+00



121+60



121+50

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 17

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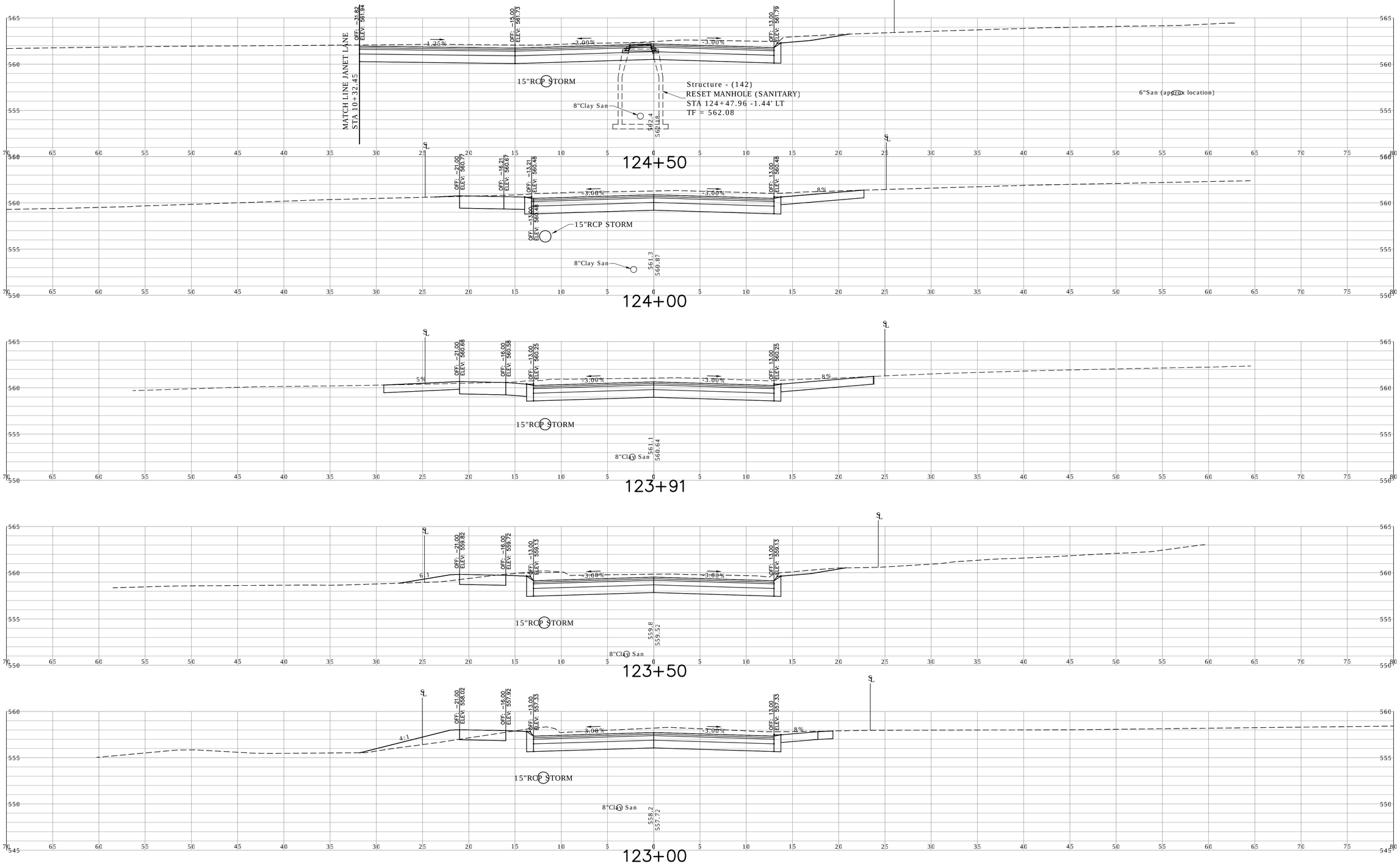

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CARDINAL ENGINEERING ASSOCIATES

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PROJECT NO. 146-195

DRAWING NO. XSC 18

SHEET NO. 03 37

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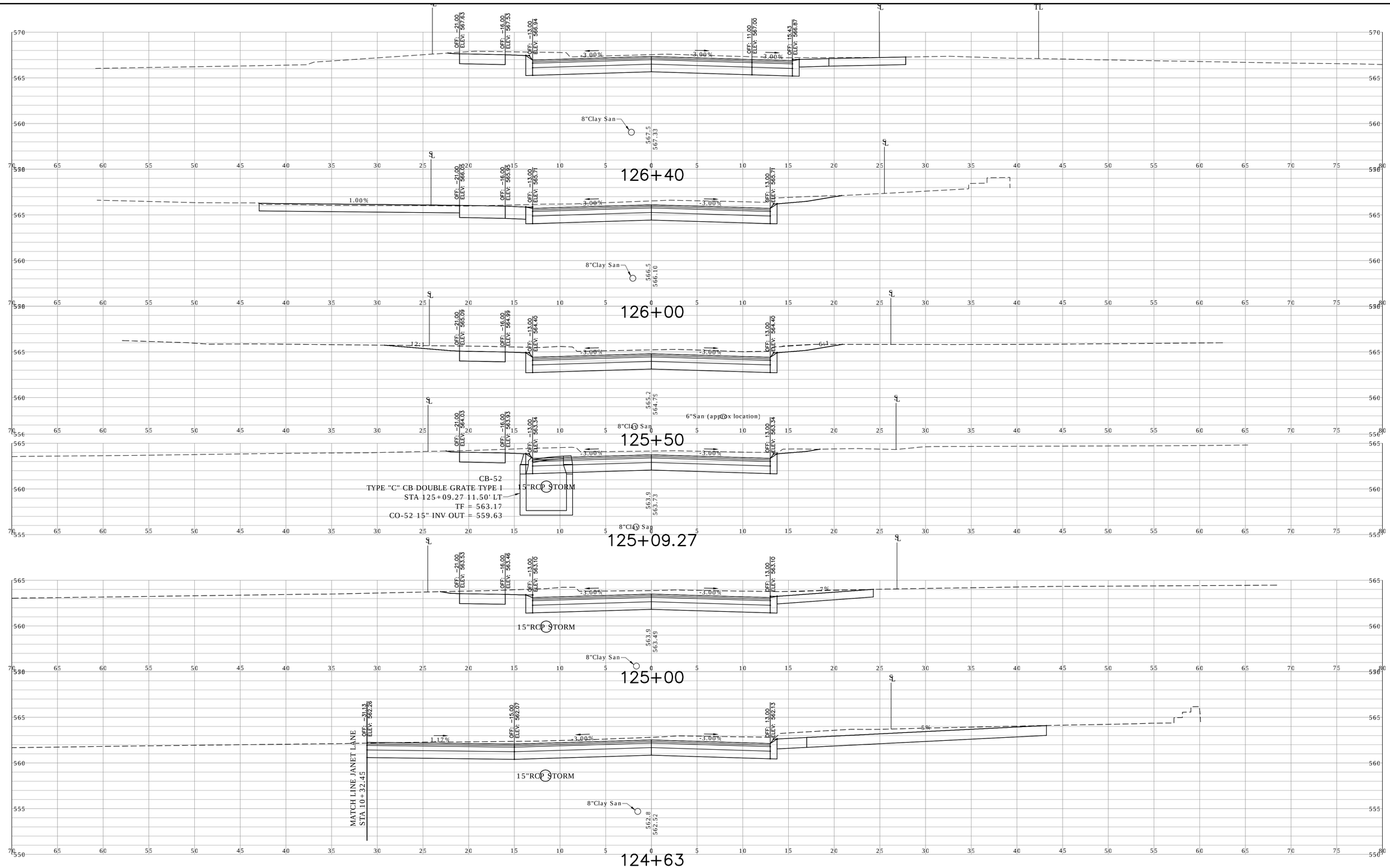

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 19

SHEET NO. 03 38

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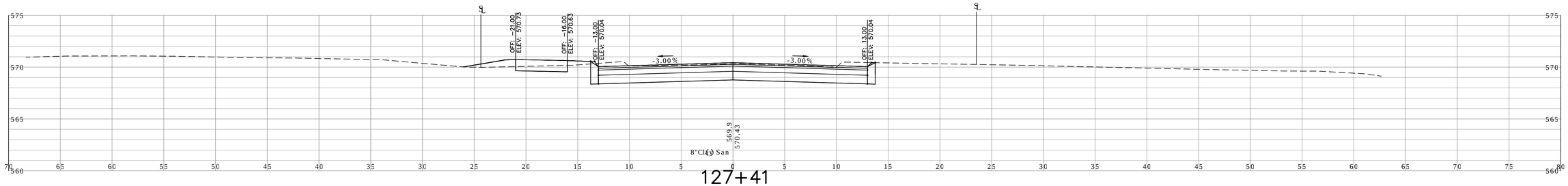

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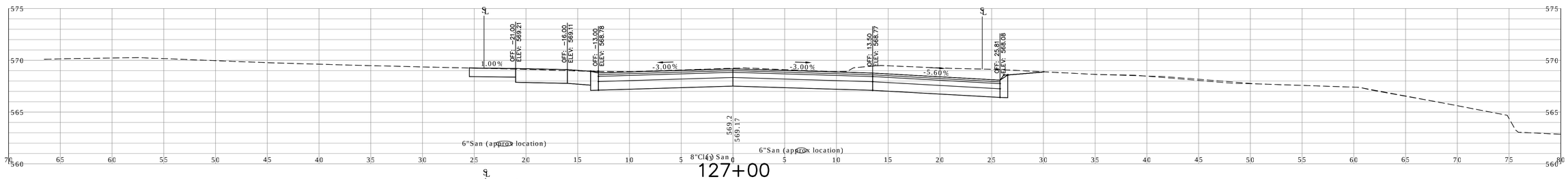

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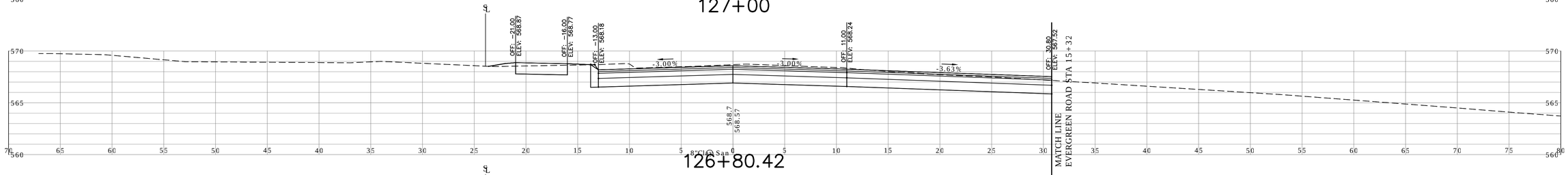

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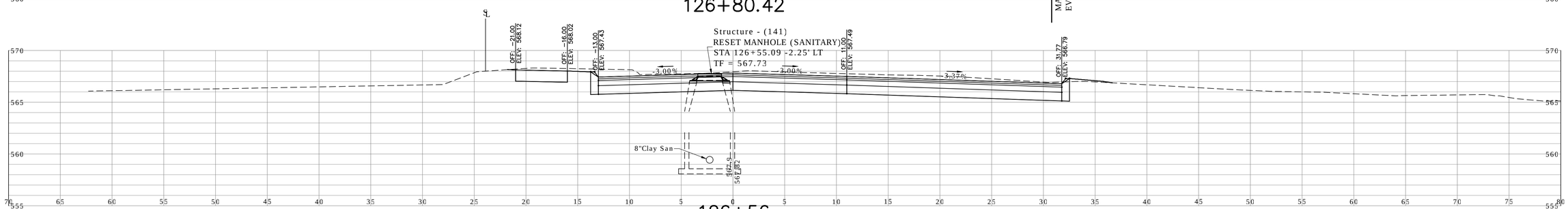

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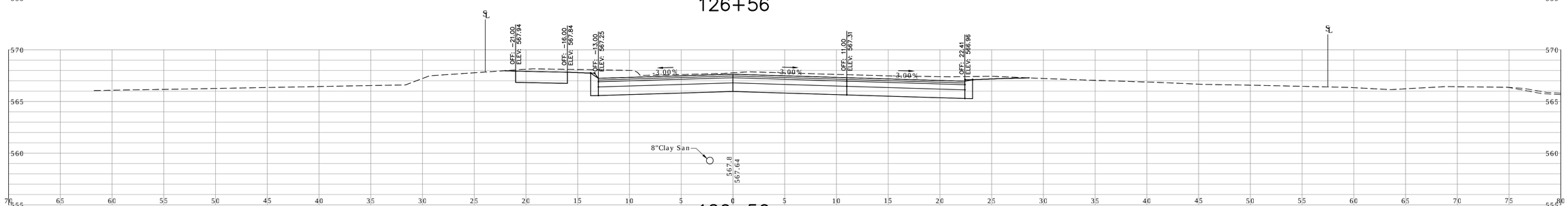

126+50

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 20

SHEET NO. 03 39

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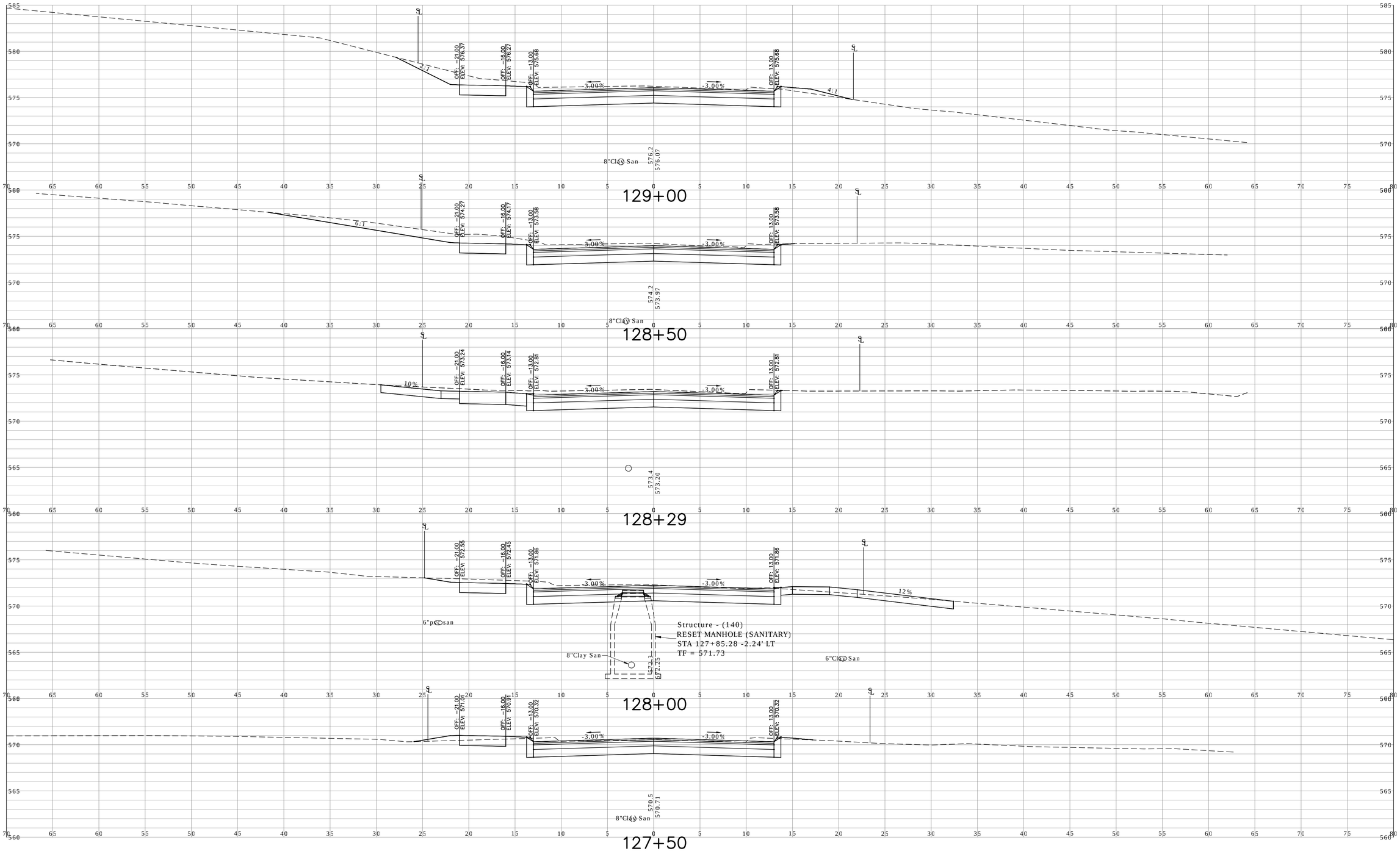

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DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 21

SHEET NO. 03 40

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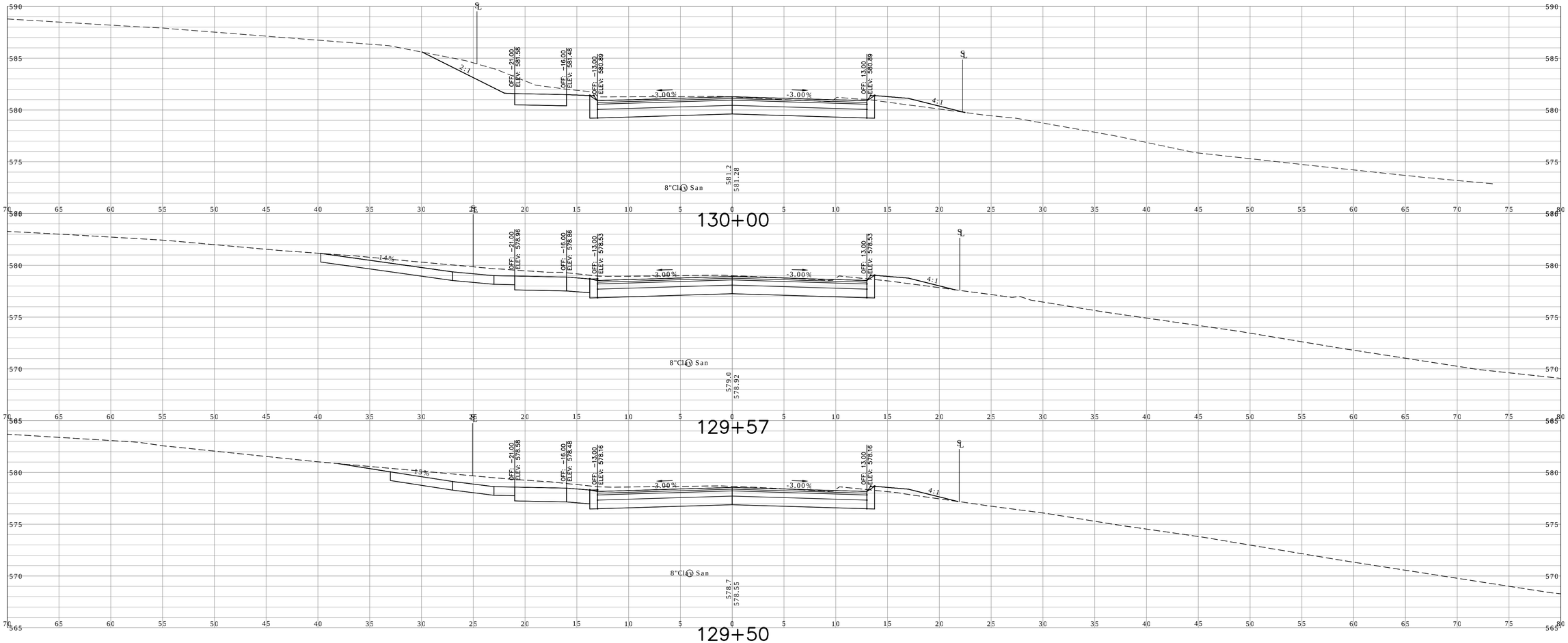

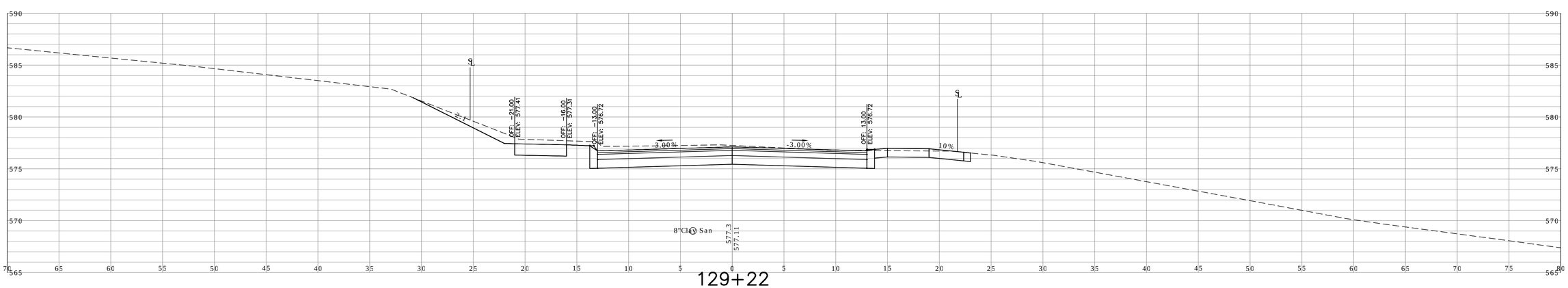

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DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 22

SHEET NO. 03 41

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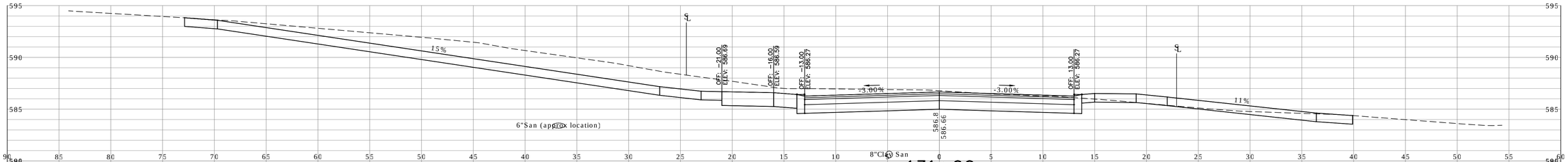

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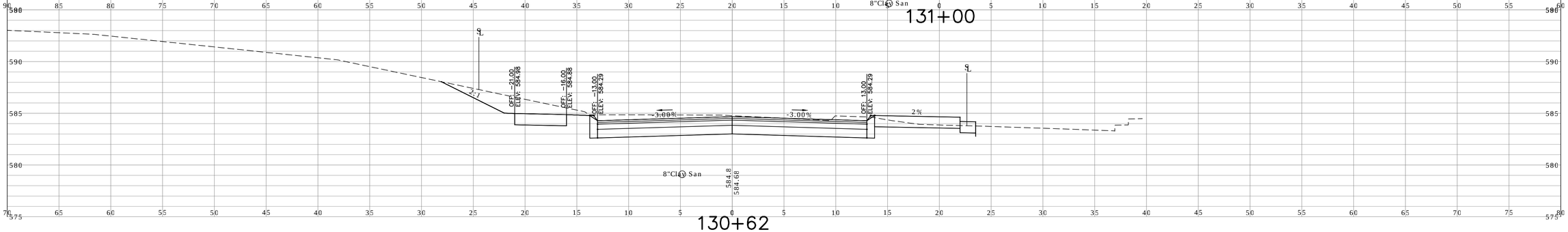

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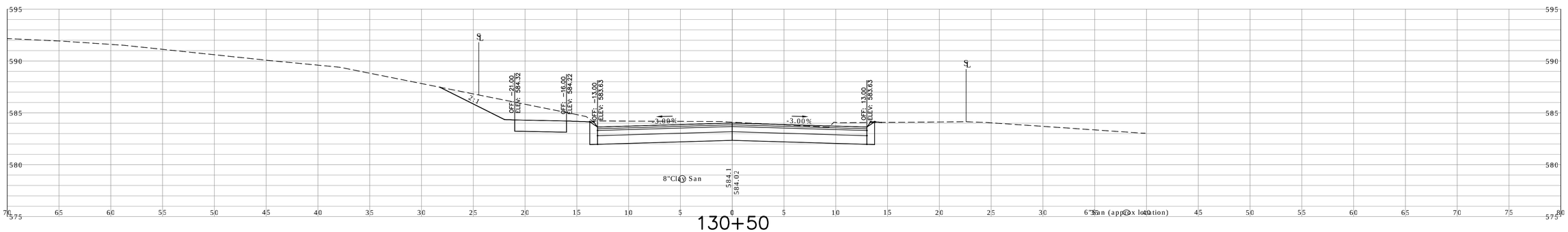

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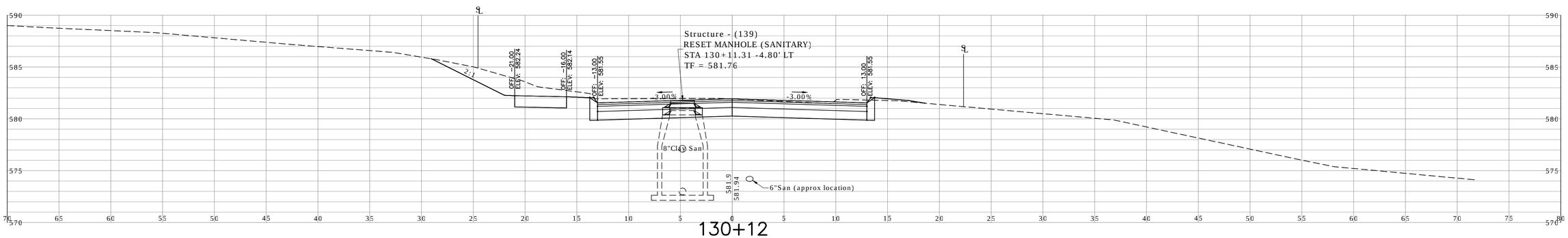

130+12

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 23

SHEET NO. 03 42

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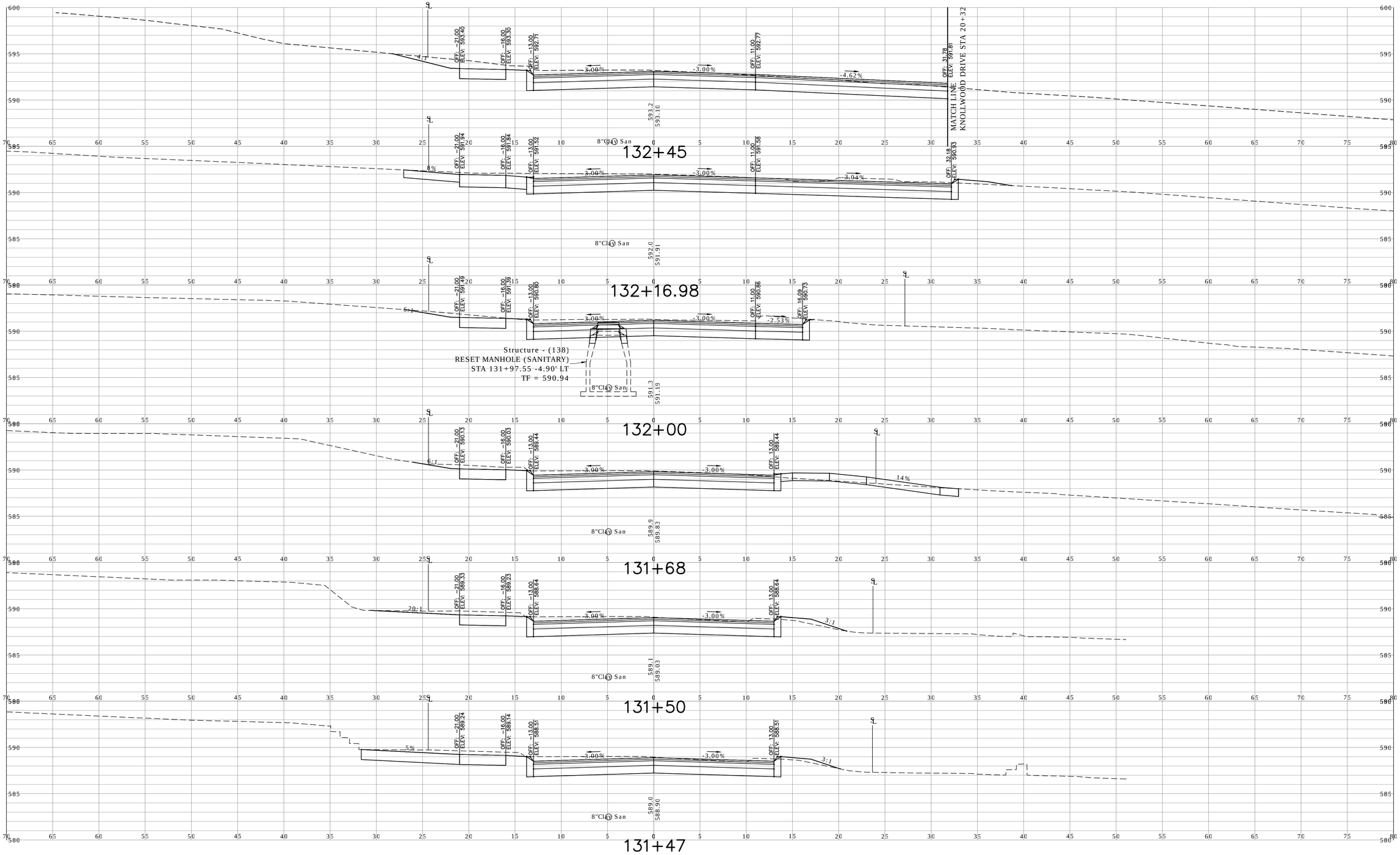

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DESIGNER/DRAFTER: AD
CHECKED BY: ME
SCALE IN FEET 0 5 10
SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195
DRAWING NO. XSC 24
SHEET NO. 03 43

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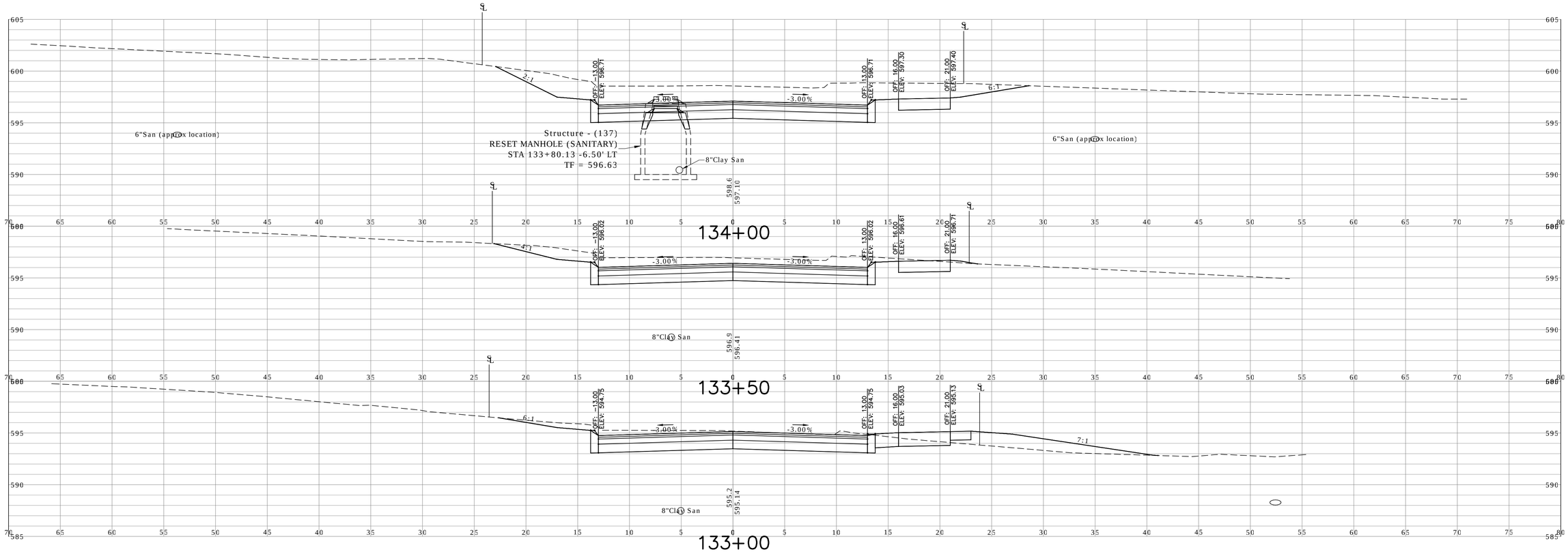

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CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 25

SHEET NO. 03 44

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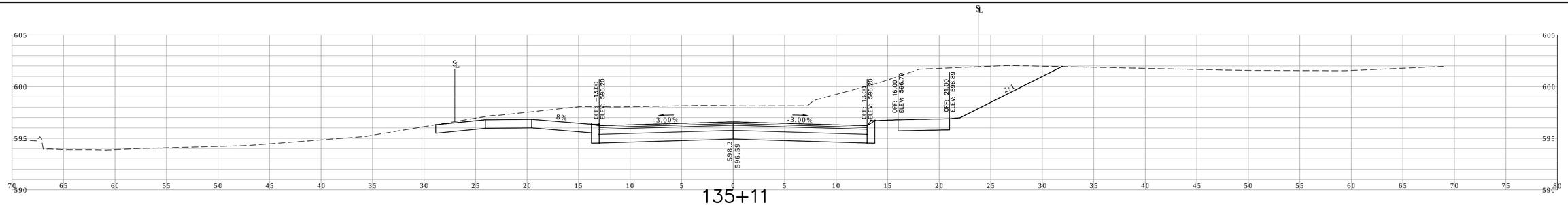

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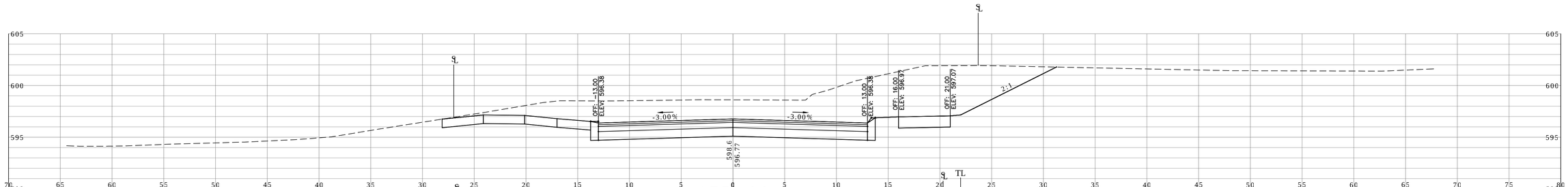

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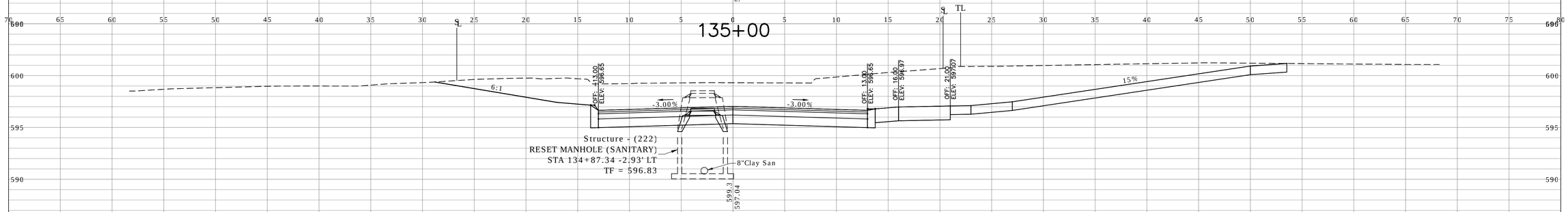

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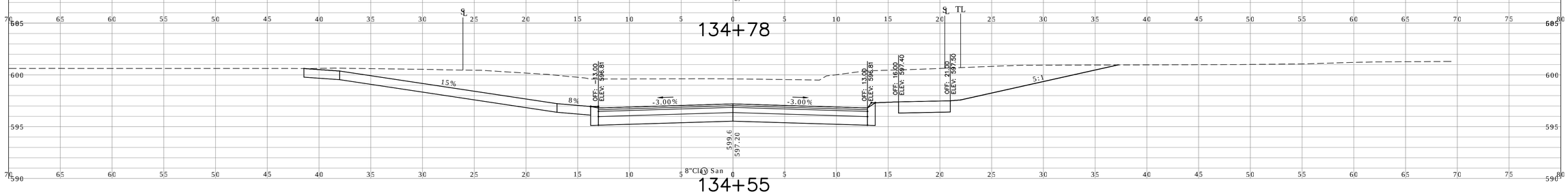

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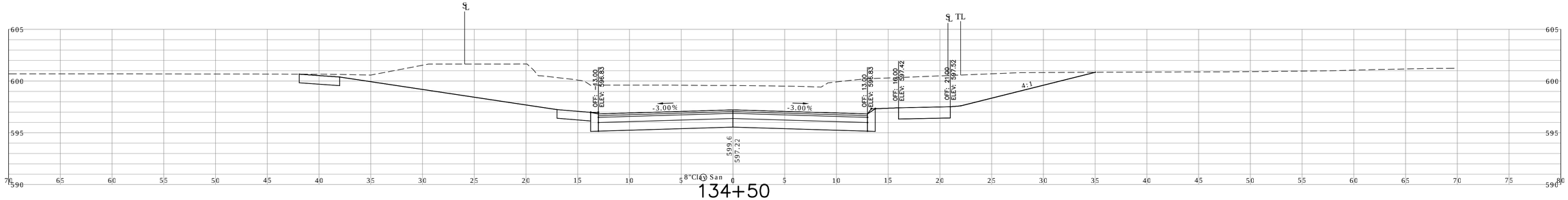

134+50

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 26

SHEET NO. 03 45

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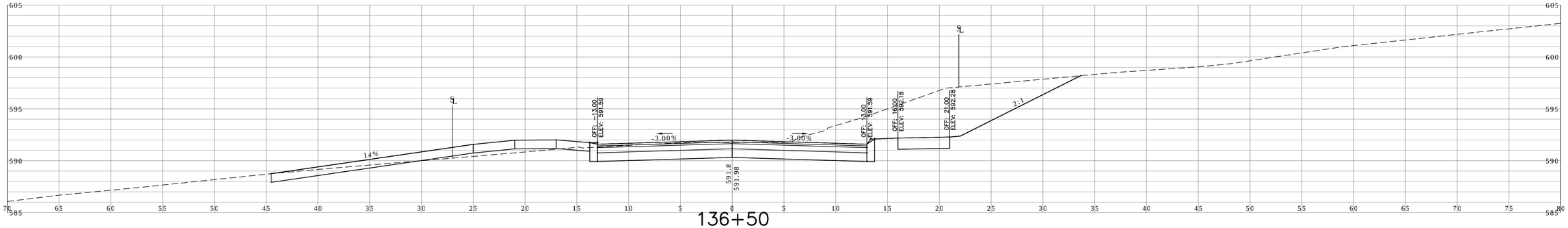

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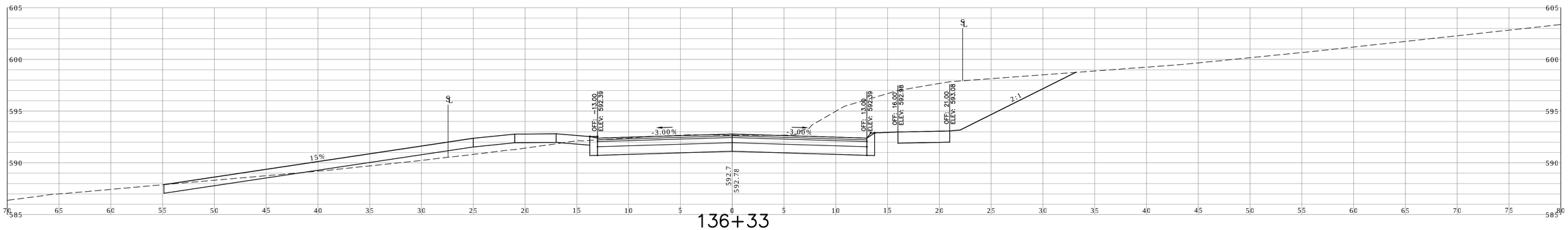

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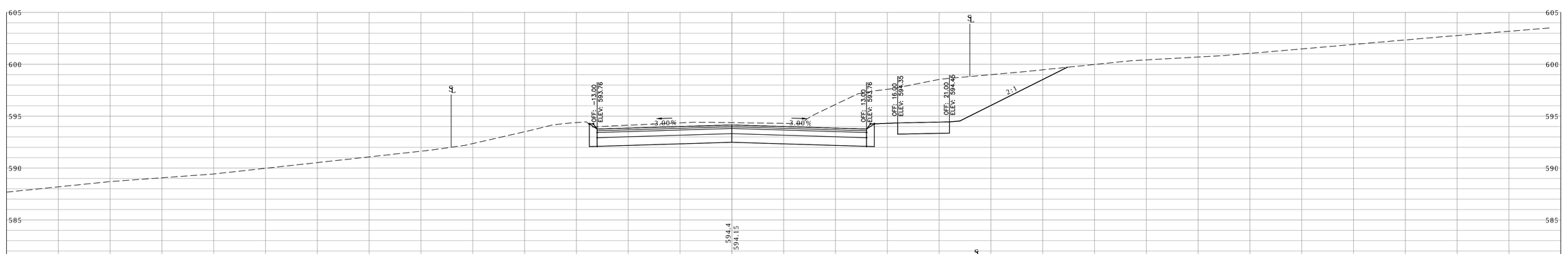

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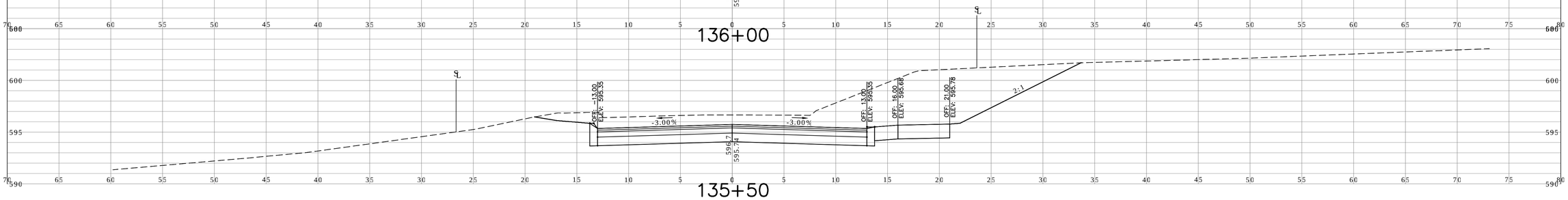

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DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 27

SHEET NO. 03 46

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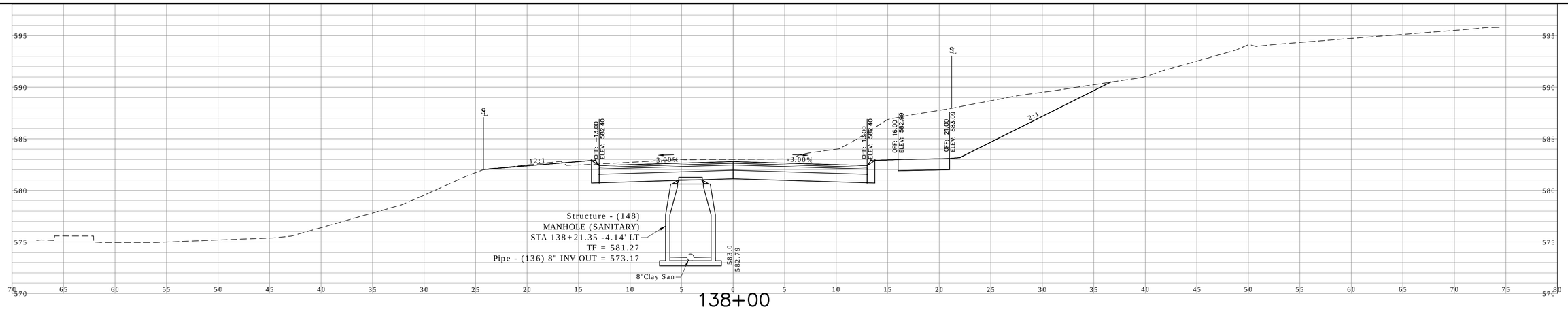

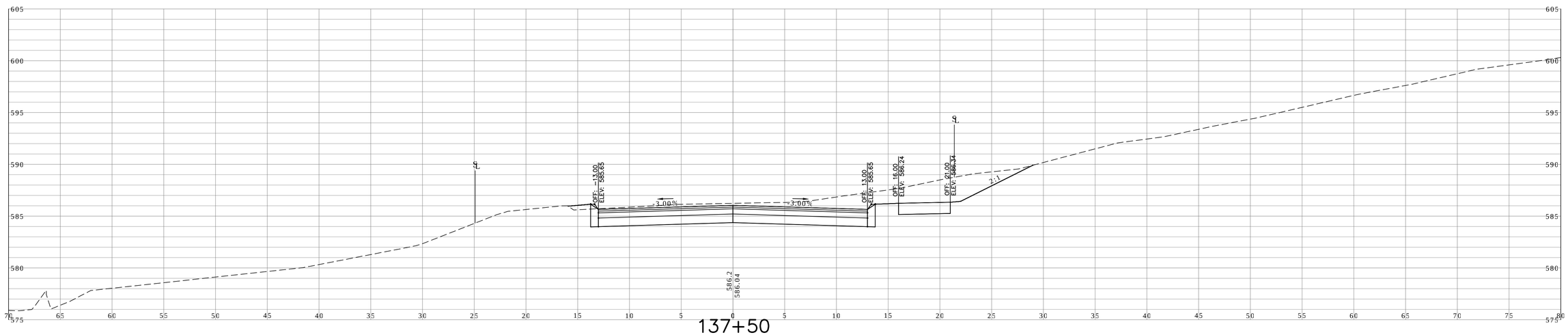

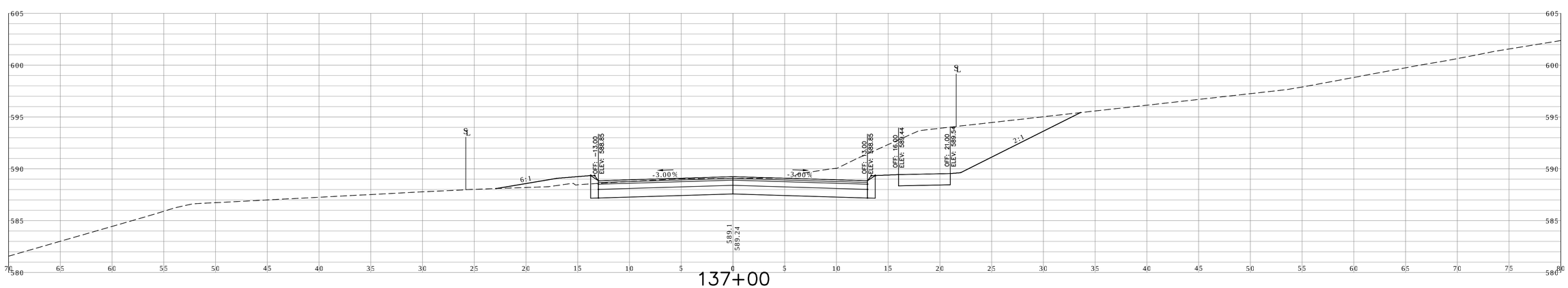

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SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

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TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 28

SHEET NO. 03 47

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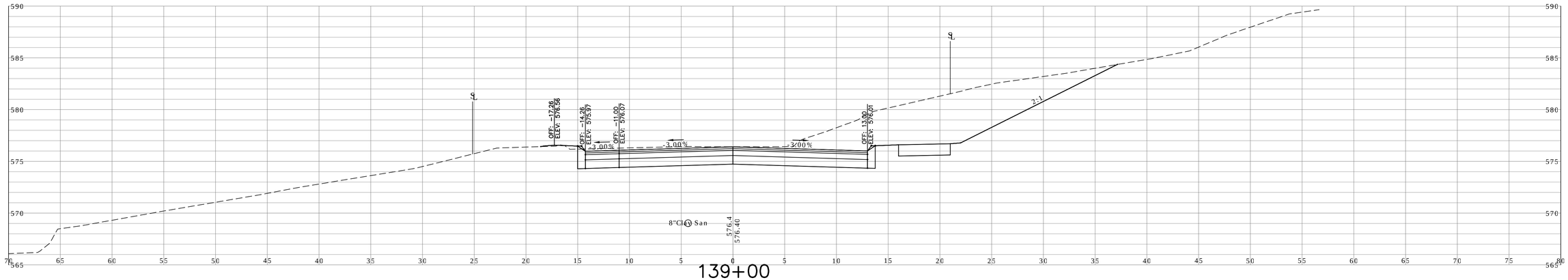

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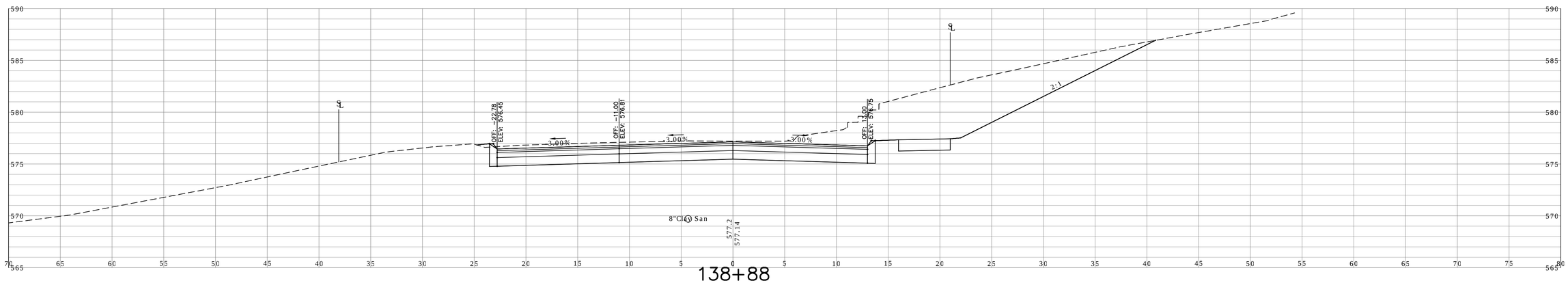

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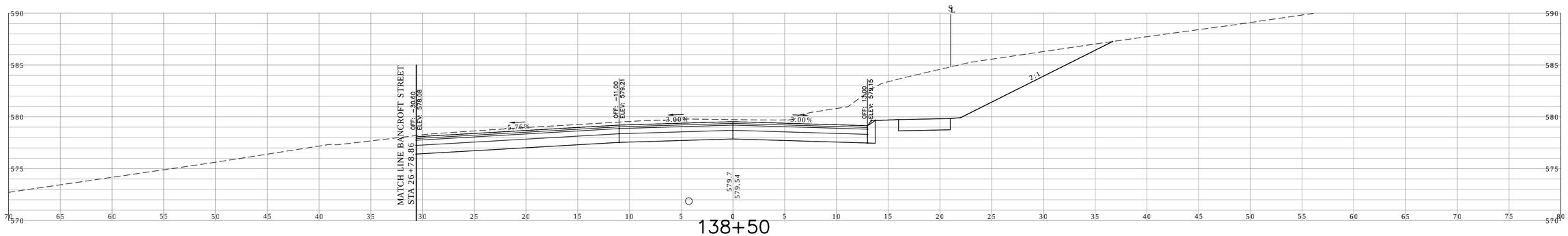

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 29

SHEET NO. 03 48

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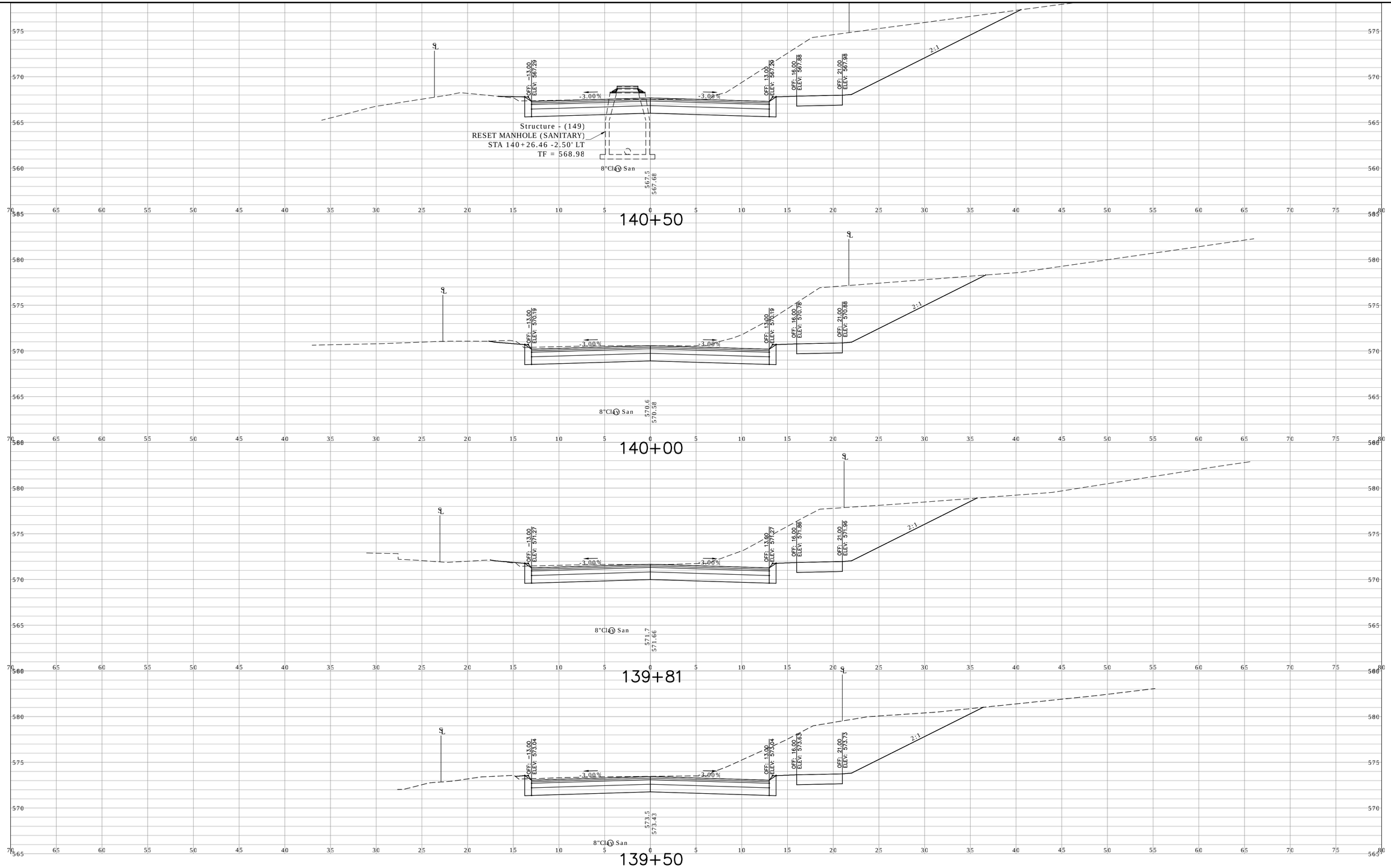

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 30

SHEET NO. 03 49

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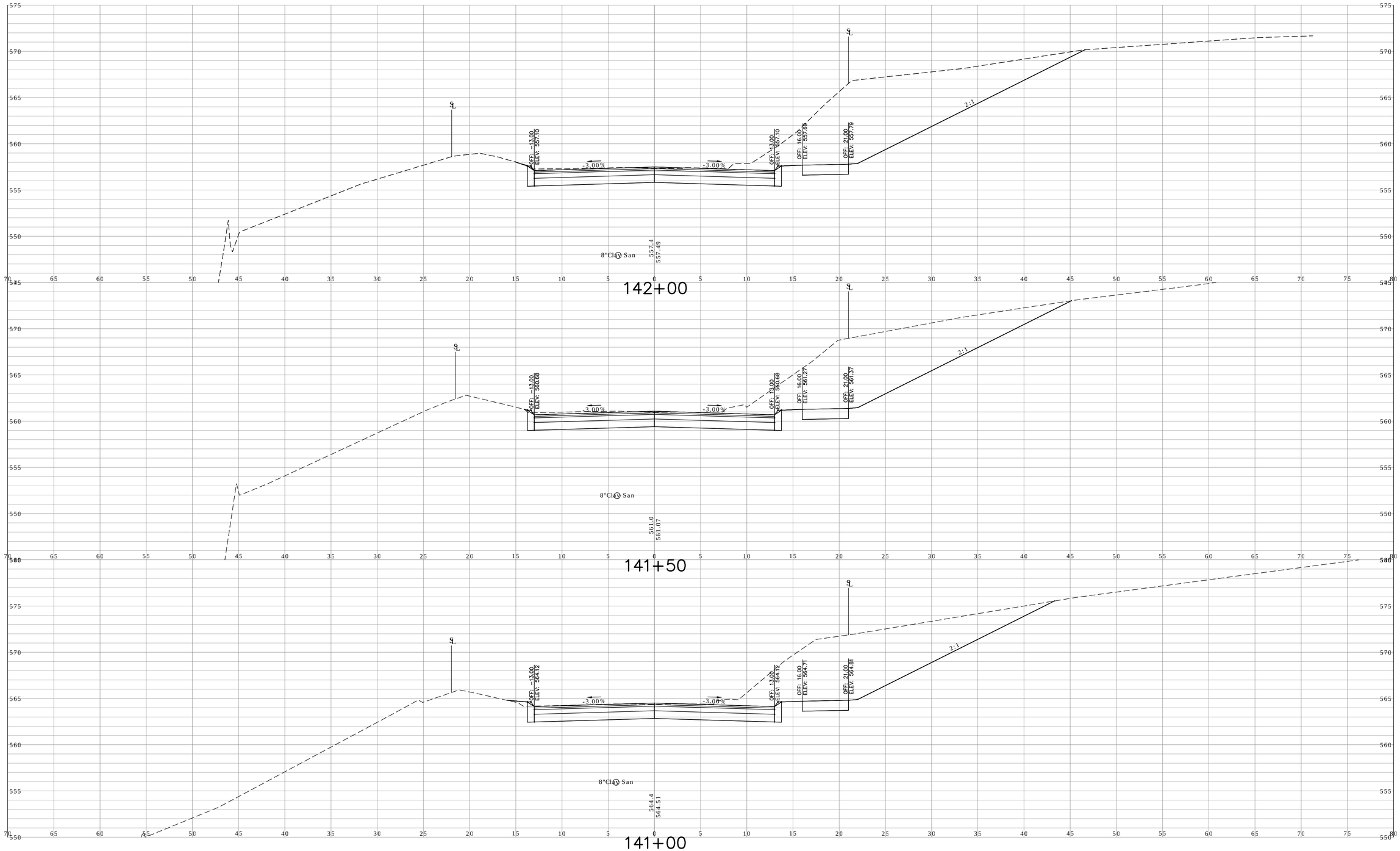

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 31

SHEET NO. 03 50

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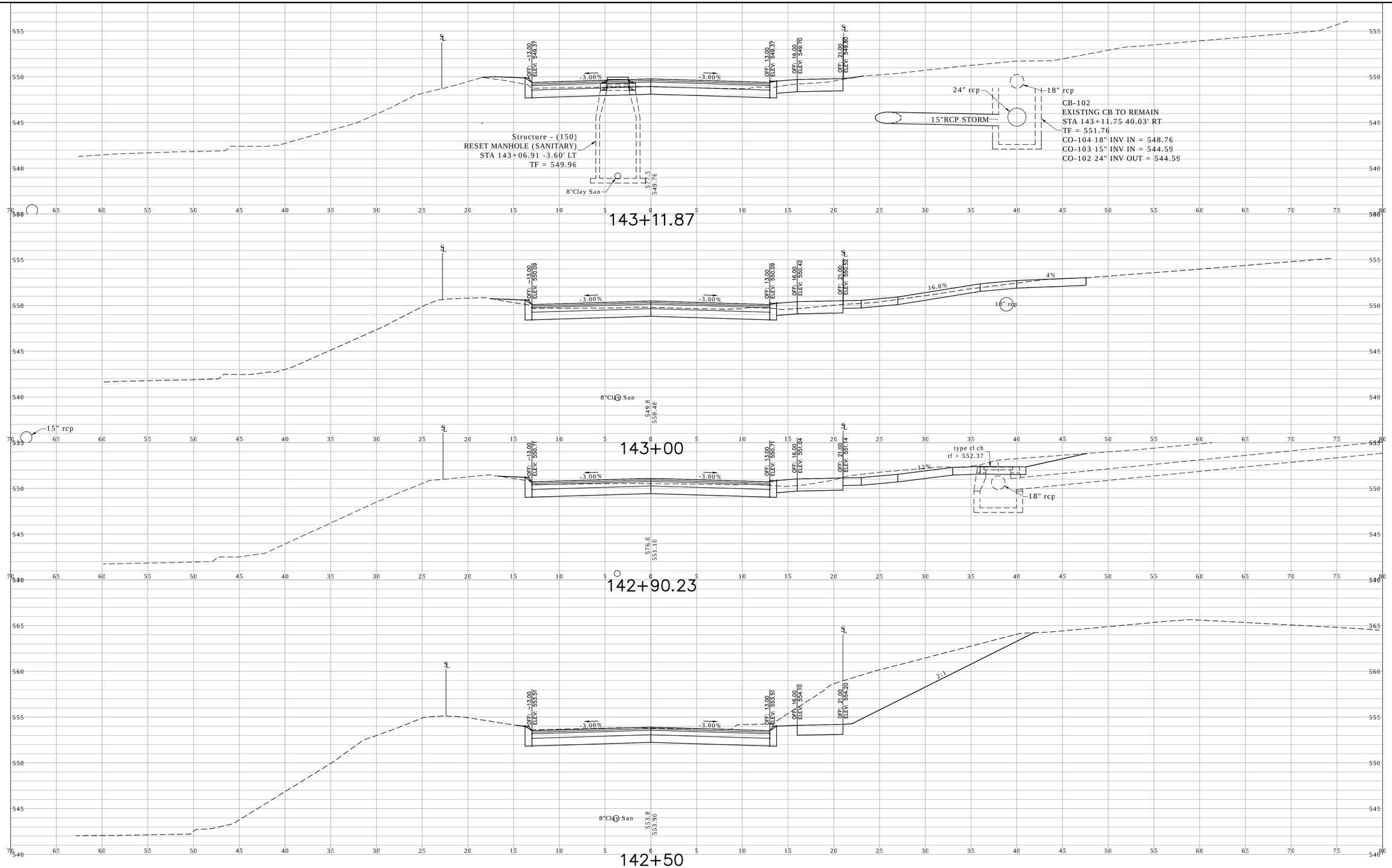

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

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PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 32

SHEET NO. 03 51

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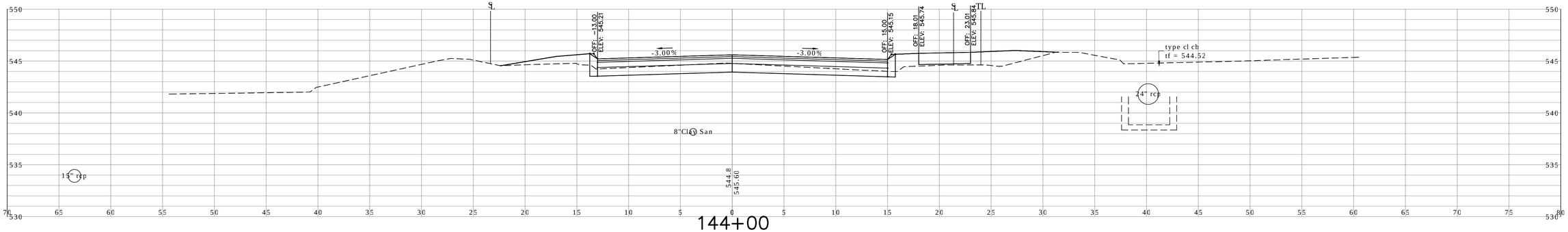

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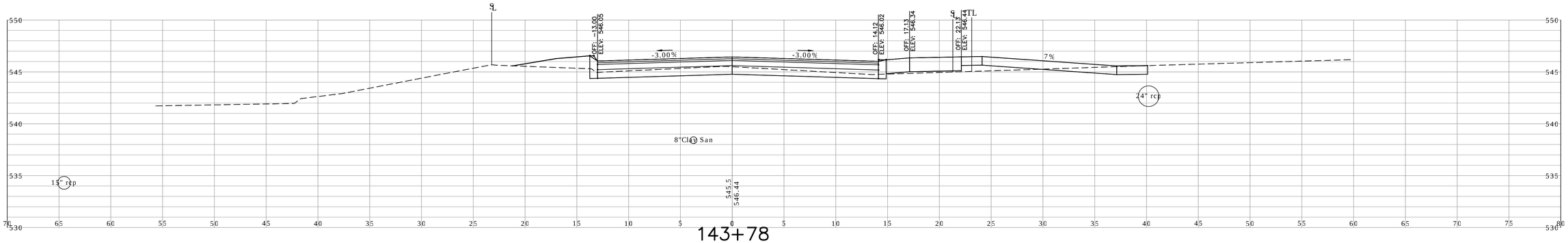

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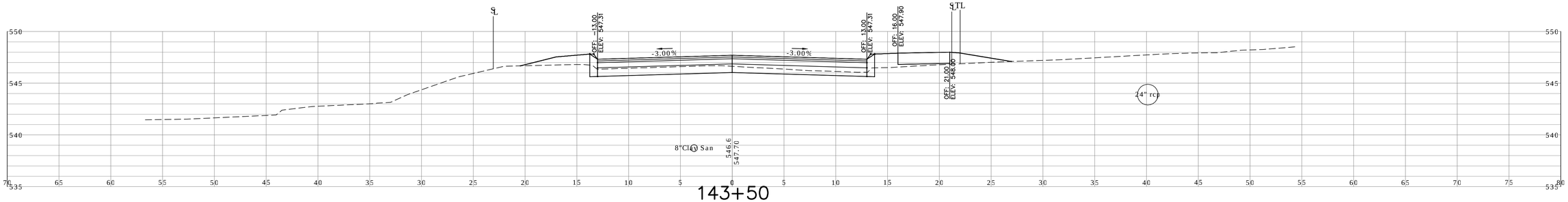

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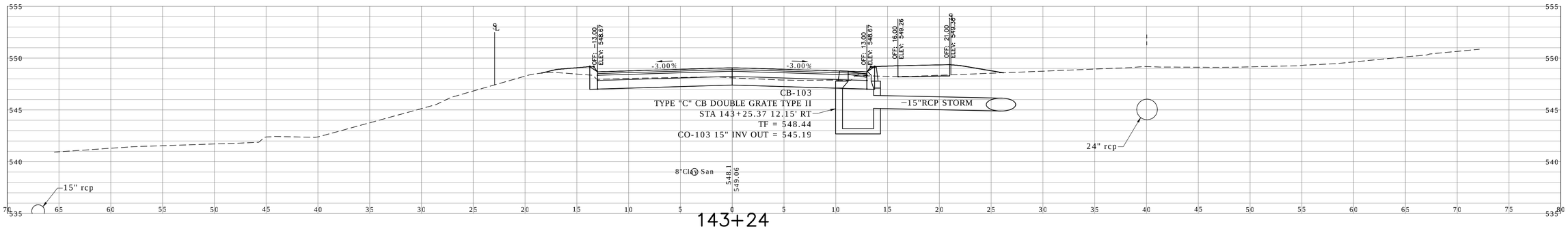

143+24

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 33

SHEET NO. 03 52

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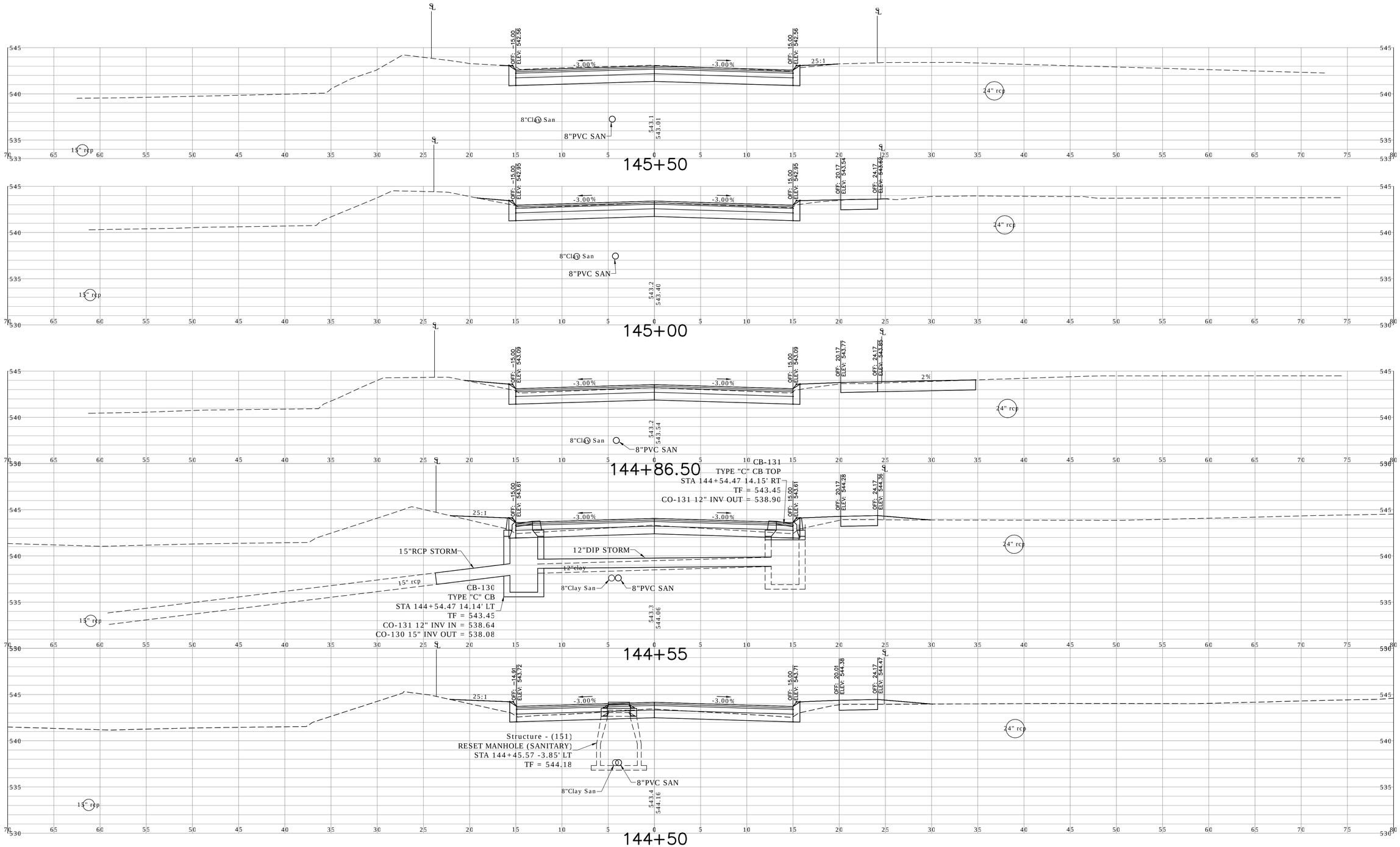

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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 34

SHEET NO. 03 53

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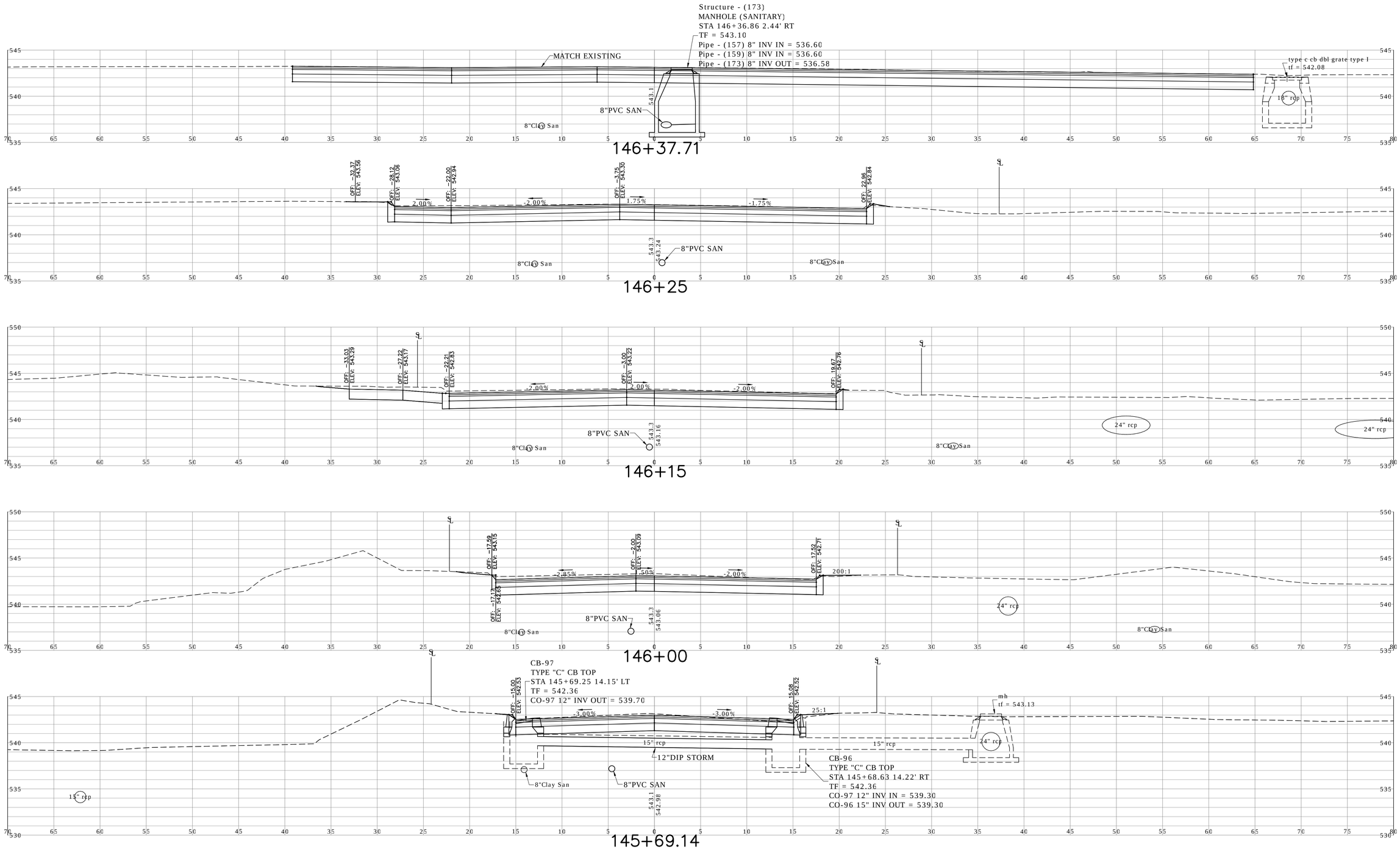

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CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsMore.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SOUTH STREET

PROJECT NO. 146-195

DRAWING NO. XSC 35

SHEET NO. 03 54

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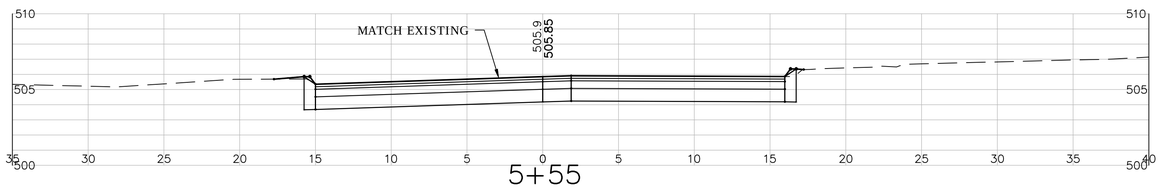

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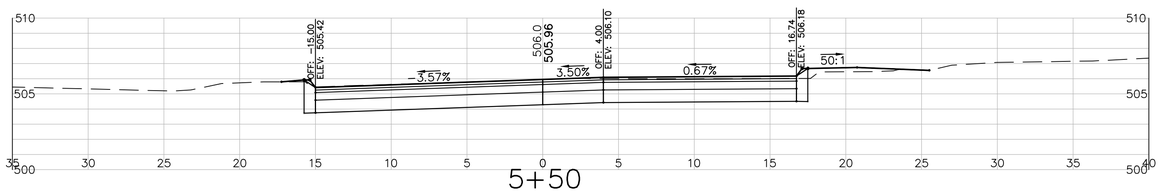

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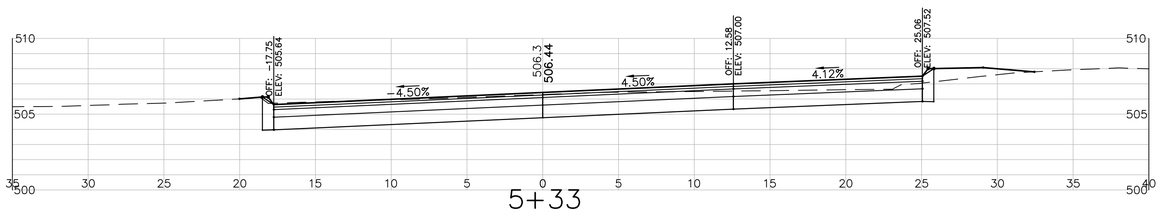

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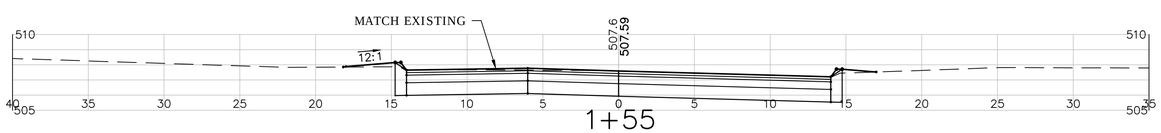
ALPERT ROAD



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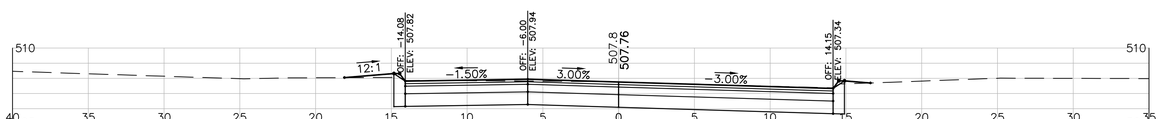

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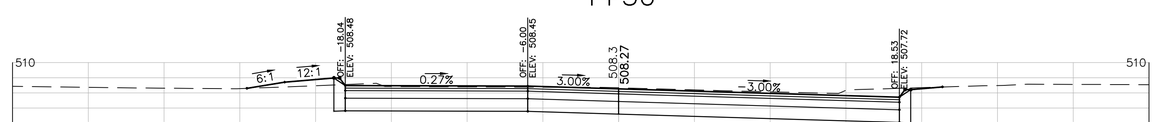

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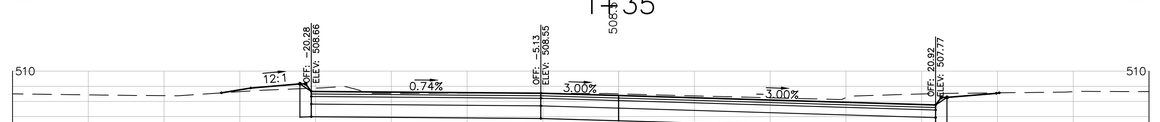

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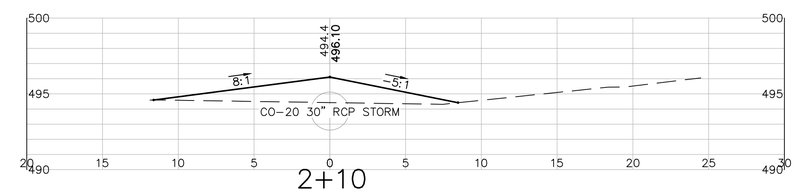

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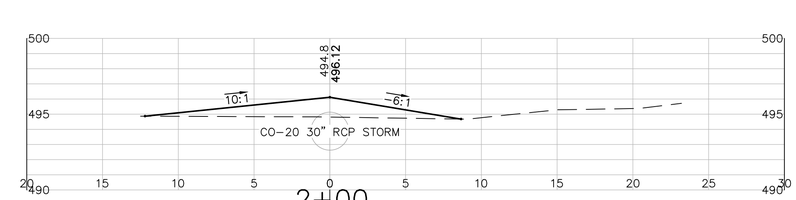

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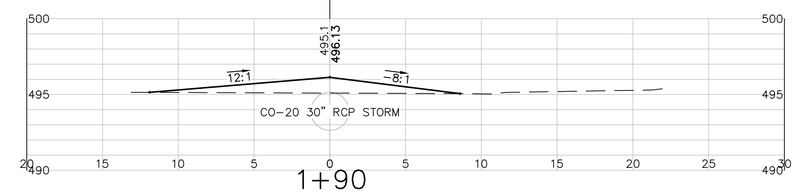

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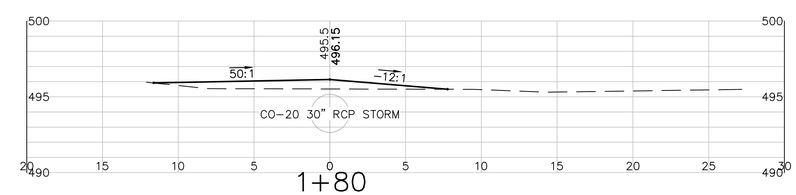

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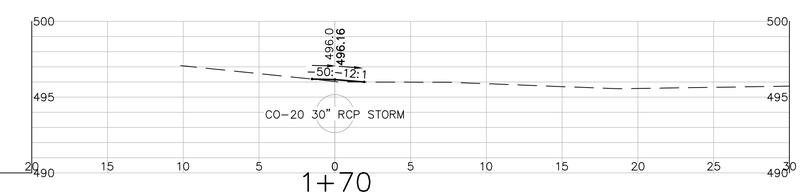

1+70

SOUTHGATE OUTFALL

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsSideRdsB.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SIDE ROADS

PROJECT NO. 146-195

DRAWING NO. XSC 36

SHEET NO. 03 55

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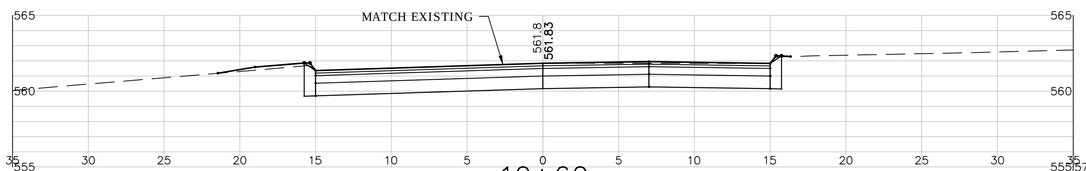

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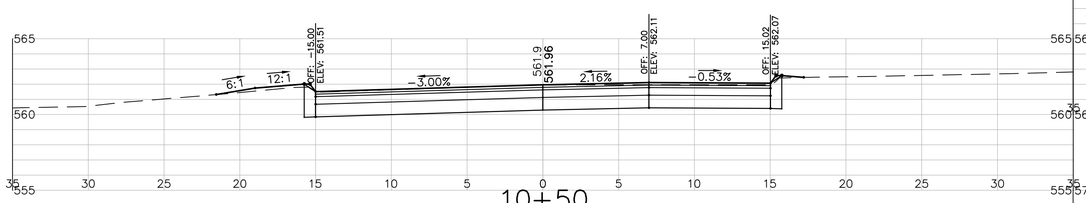

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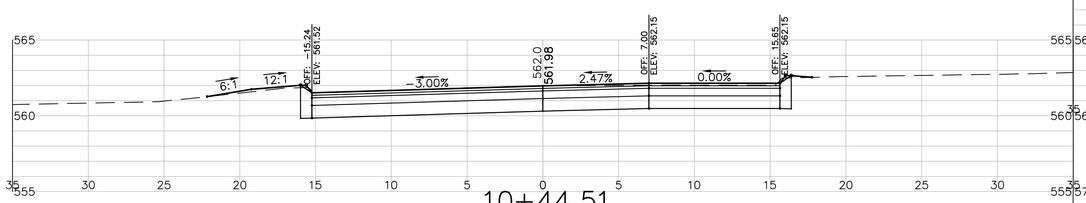

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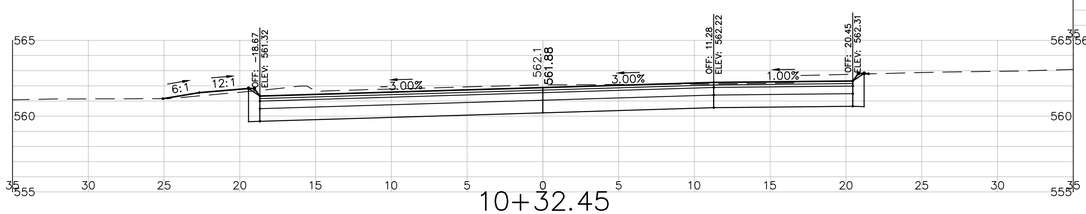

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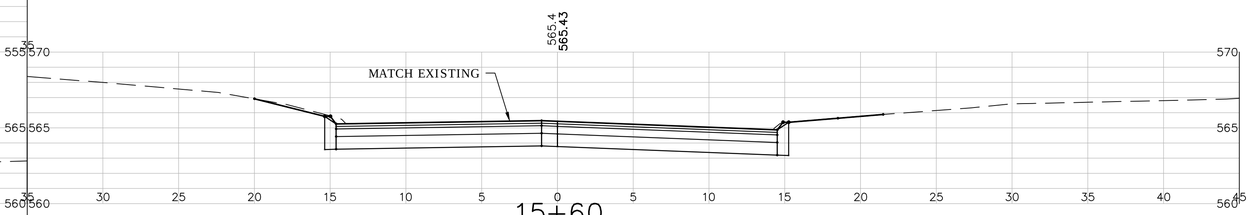
JANET LANE



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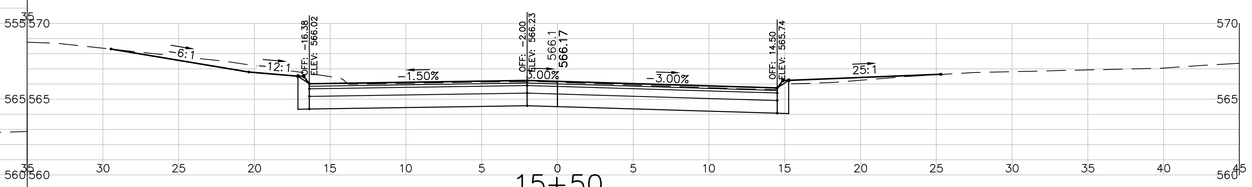

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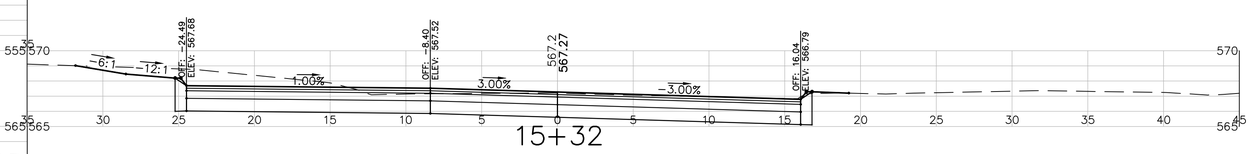

15+32

EVERGREEN ROAD

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: APR 29, 2016

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CHECKED BY: ME

SCALE IN FEET 0 5 10

SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsSideRdsB.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SIDE ROADS

PROJECT NO. 146-195

DRAWING NO. XSC 37

SHEET NO. 03 56

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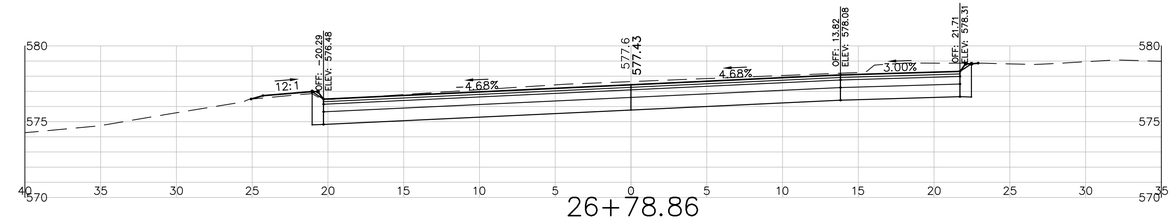

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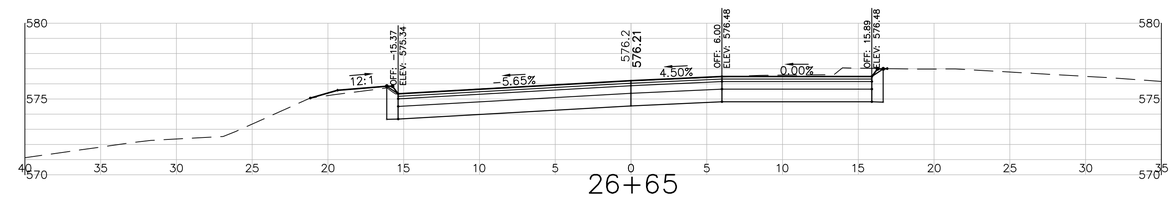

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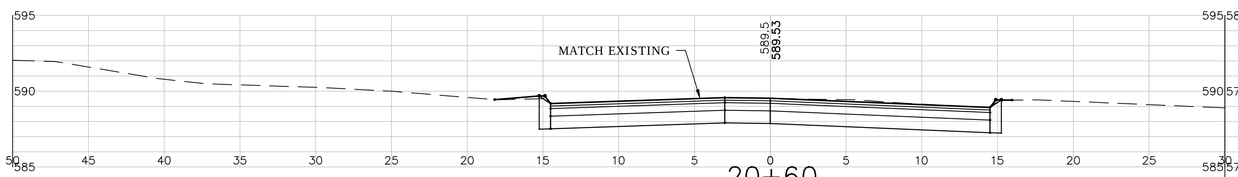

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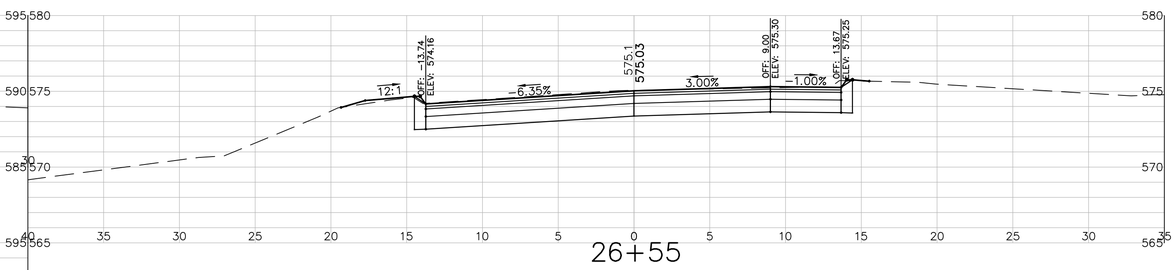

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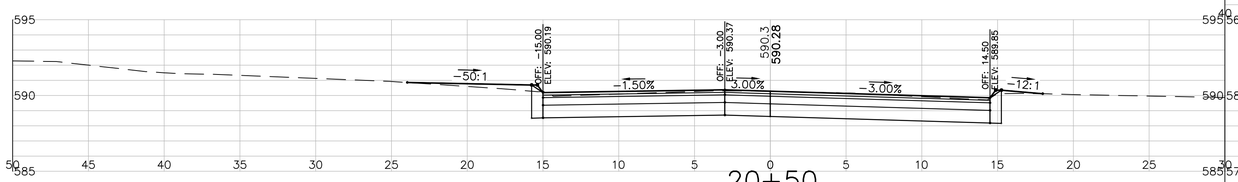

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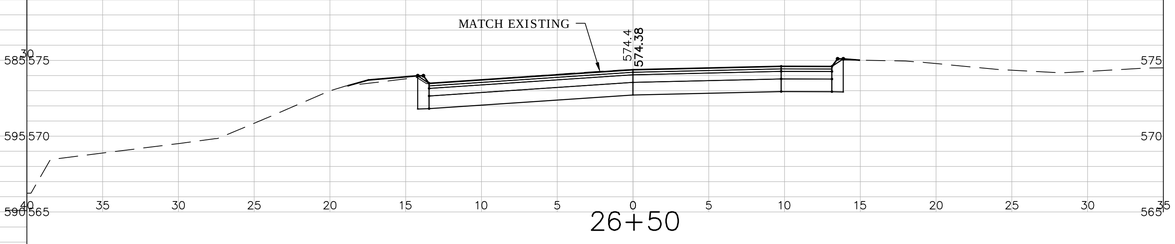
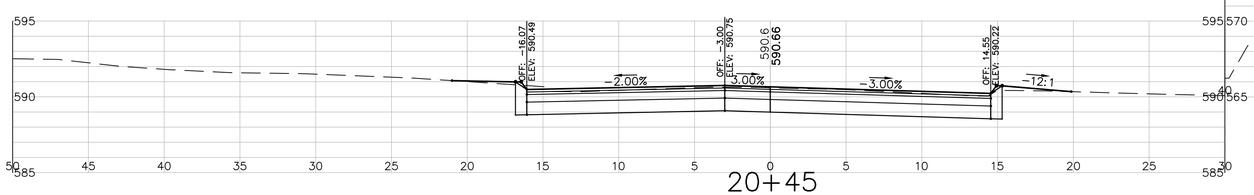
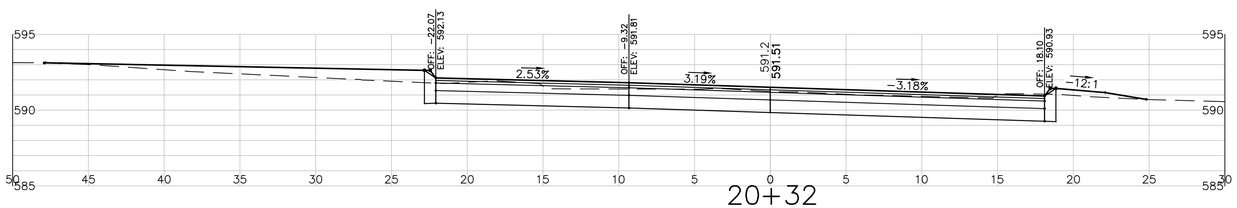


26+50

BANCROFT STREET



20+45



20+32

KNOLLWOOD DRIVE

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: APR 29, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME
SCALE IN FEET 0 5 10
SCALE 1"=5'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
Filename: Civil3dProj2014\VernonSouthSt64\ProductionDwgs\CrossSectionsSideRdsB.dwg

SIGNATURE/ BLOCK: – –

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: CROSS SECTIONS SIDE ROADS

PROJECT NO. 146-195
DRAWING NO. XSC 38
SHEET NO. 03 57

P:\Civil 3d Projects 2014\Vernon South St64\Production Drawings\CrossSectionsSideRoadsB.DWG, XSC (38), 5/2/2016 2:48:53 PM,
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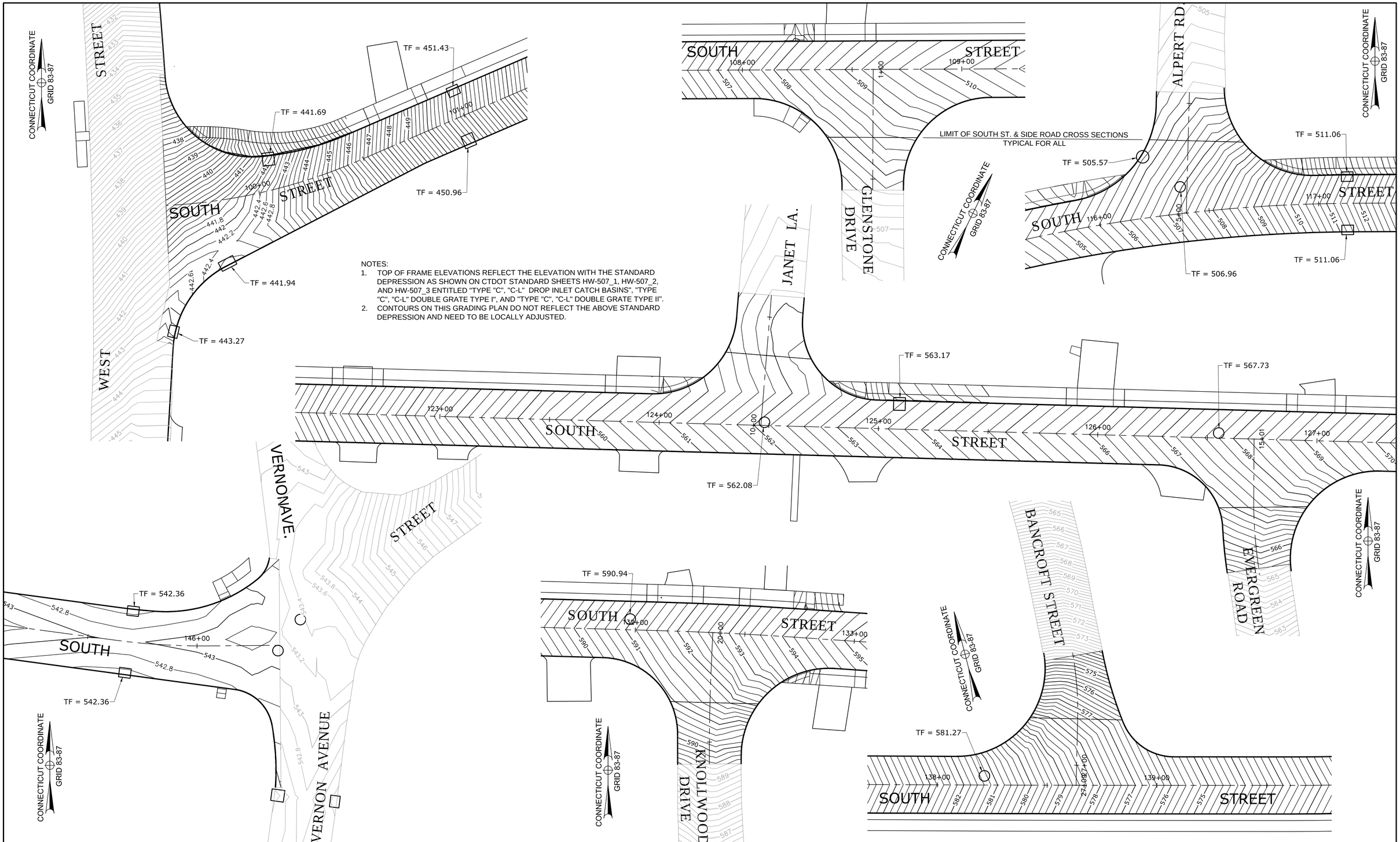

NOTES:

1. TOP OF FRAME ELEVATIONS REFLECT THE ELEVATION WITH THE STANDARD DEPRESSION AS SHOWN ON CTDOT STANDARD SHEETS HW-507_1, HW-507_2, AND HW-507_3 ENTITLED "TYPE "C", "C-L" DROP INLET CATCH BASINS", "TYPE "C", "C-L" DOUBLE GRATE TYPE I", AND "TYPE "C", "C-L" DOUBLE GRATE TYPE II".
2. CONTOURS ON THIS GRADING PLAN DO NOT REFLECT THE ABOVE STANDARD DEPRESSION AND NEED TO BE LOCALLY ADJUSTED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-

Plotted: APR. 27, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME
SCALE IN FEET 0 20 40
SCALE 1"=20'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
Filename:P:\Civ3dProj2014\VernonSouthSt64\Prodwg\03 58 GRA 01.dwg

SIGNATURE/BLOCK: - -

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: INTERSECTION GRADING PLAN

PROJECT NO. 146-195
DRAWING NO. GRA 01
SHEET NO. 03 58

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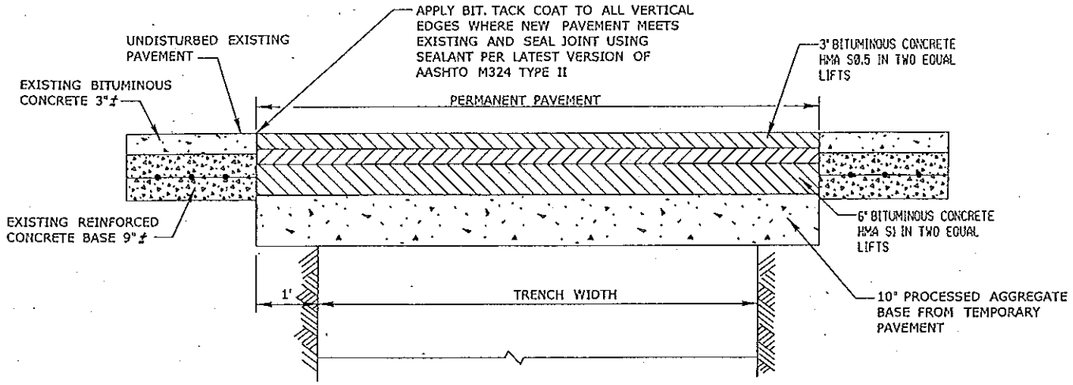
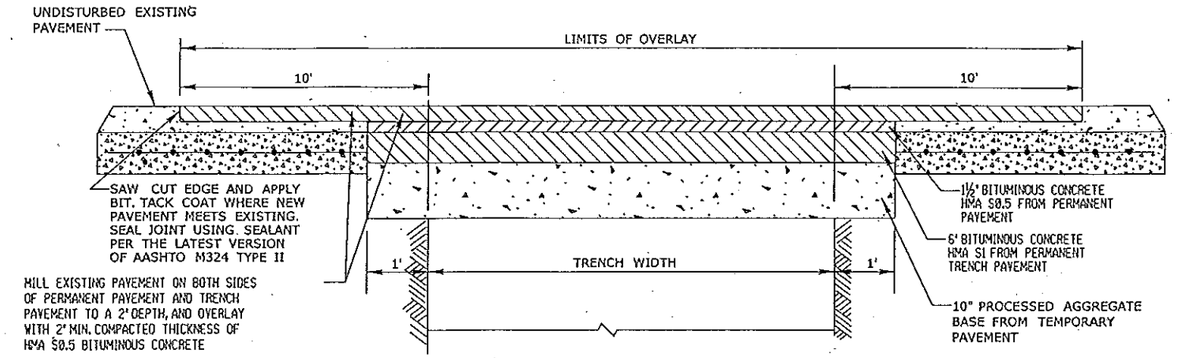
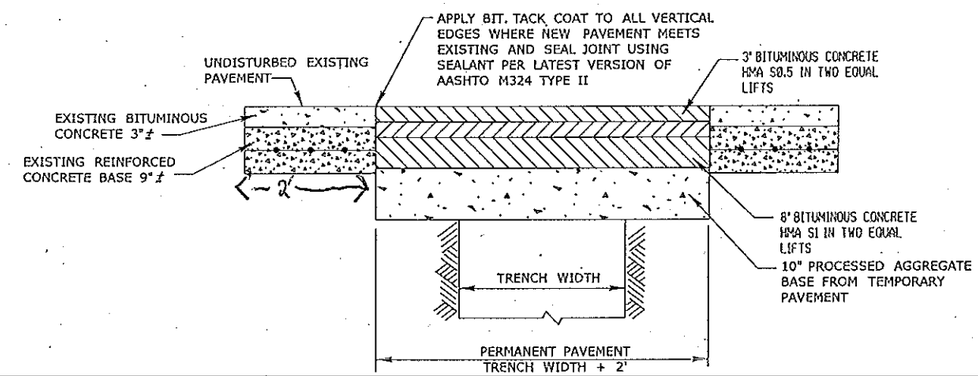


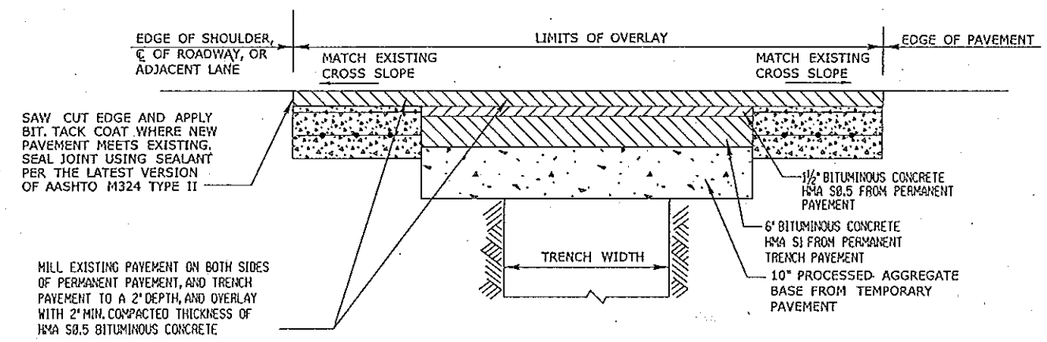
PERMANENT PAVEMENT TRENCH DETAIL
TRENCHES PERPENDICULAR TO EDGE OF PAVEMENT



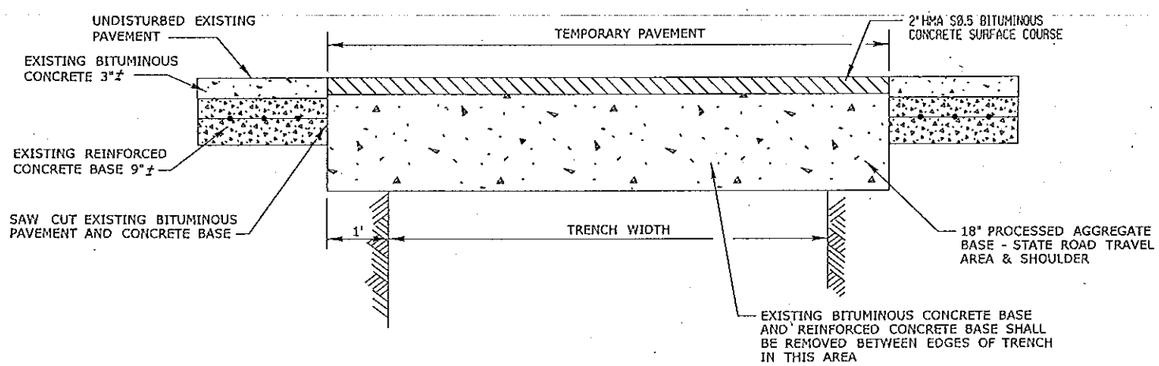
MILLING AND OVERLAY
TRENCHES PERPENDICULAR TO EDGE OF PAVEMENT



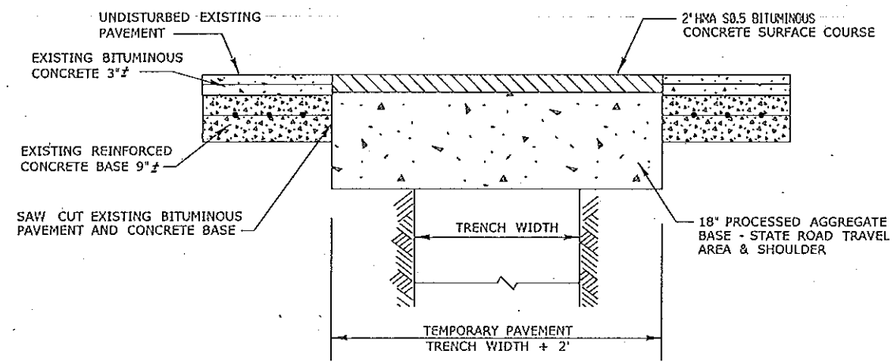
PERMANENT PAVEMENT TRENCH DETAIL
TRENCH PARALLEL TO EDGE OF PAVEMENT



MILLING AND OVERLAY
TRENCH PARALLEL TO EDGE OF PAVEMENT



TEMPORARY PAVEMENT DETAIL
TRENCHES PERPENDICULAR TO EDGE OF PAVEMENT



TEMPORARY PAVEMENT DETAIL
TRENCH PARALLEL TO EDGE OF PAVEMENT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Plotted Date: 9/23/2014

DESIGNED/DRAFTED: -
CHECKED BY: -
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TRENCH DET.STE.RDS.dgn

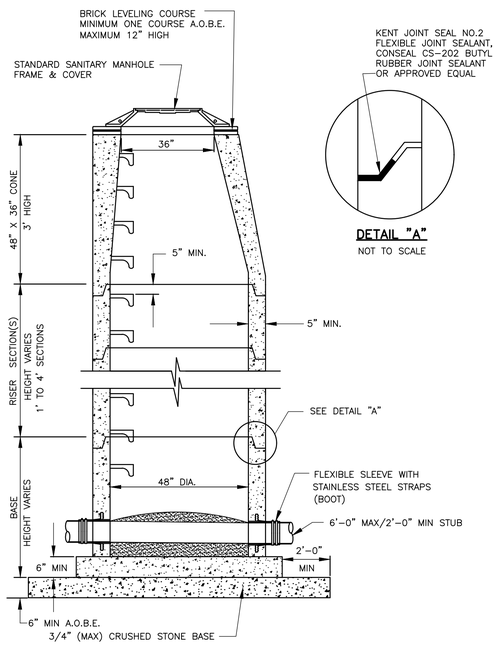
SIGNATURE BLOCK:
DISTRICT PERMIT OFFICE
APPROVED BY:

PROJECT TITLE:
RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: TRENCH DETAILS FOR STATE ROADS

PROJECT NO. 146-195
DRAWING NO. MDS 04
SHEET NO. 03 59

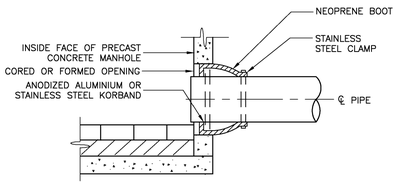


SANITARY MANHOLE

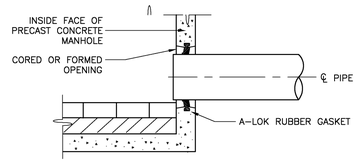
NOT TO SCALE

DETAIL "A"

NOT TO SCALE



KOR-N-SEAL BOOT



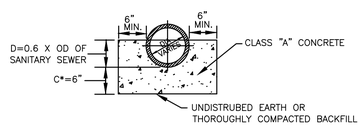
A-LOK SYSTEM

NOTE:

1. PACK NON-SHRINK GROUT AROUND ANNULAR AREA OF PIPE ON OUTSIDE OF STRUCTURE PRIOR TO BACKFILLING.

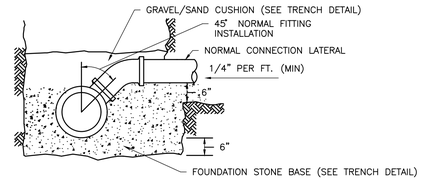
PIPE CONNECTIONS TO PRECAST CONCRETE STRUCTURES

NOT TO SCALE

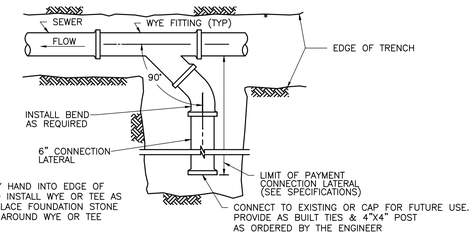


CONCRETE CRADLE

NOT TO SCALE



SECTION



NOTES:

EXCAVATE BY HAND INTO EDGE OF TRENCH AND INSTALL WYE OR TEE AS REQUIRED, PLACE FOUNDATION STONE UNDER AND AROUND WYE OR TEE AND BEND.

APPROVED SADDLES:

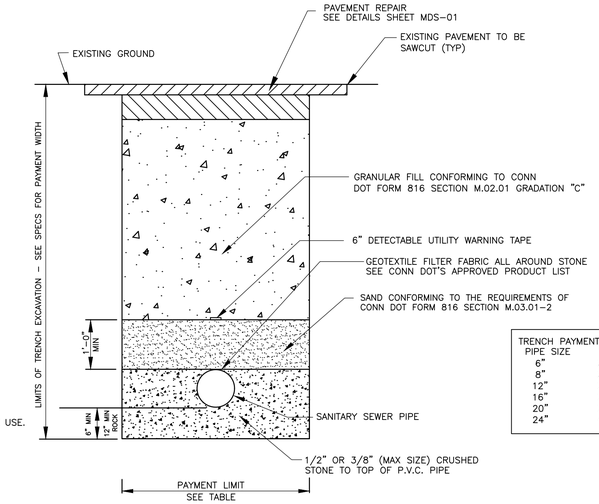
FORD "CB" SADDLE, FERNCO FLEXIBLE TAP SADDLE TSW-6 OR APPROVED EQUAL FOR PVC PIPE.

GENCO "SEALTITE" SADDLE, ROMAC INDUSTRIES CB SEWER SADDLE OR APPROVED EQUAL FOR ALL OTHER PIPE.

PLAN

SANITARY SEWER CONNECTION

NOT TO SCALE

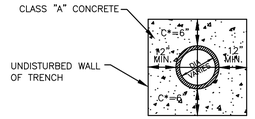


TRENCH PAYMENT LIMITS	
PIPE SIZE	WIDTH
6"	3.0'
8"	3.0'
12"	3.0'
16"	3.4'
20"	3.9'
24"	4.3'

SANITARY SEWER TRENCH

NOT TO SCALE

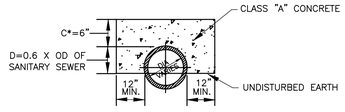
NOTES:
1. UNSUITABLE MATERIAL BELOW NORMAL GRADE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AND REPLACED WITH GRANULAR FILL. WHEN WATER IS ENCOUNTERED #6 STONE MAY BE SUBSTITUTED FOR WHICH PAYMENT WILL BE MADE FOR THE NUMBER OF CUBIC YARDS OF "BEDDING MATERIAL" COMPLETE IN PLACE.



* WHEN THE VERTICAL CLEARANCE BETWEEN THE PIPES IS LESS THAN 6" THEN "C" SHALL EQUAL VERTICAL CLEARANCE PLUS 3"

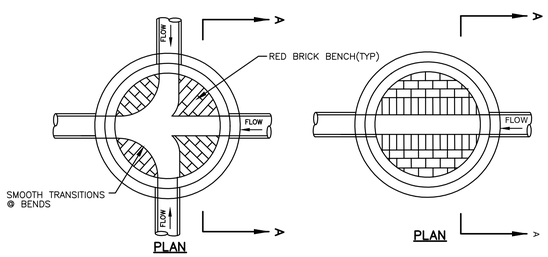
CONCRETE ENCASEMENT

NOT TO SCALE



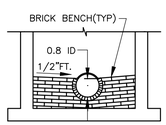
CONCRETE ARCH

NOT TO SCALE



PLAN

PLAN



SECTION A-A

MANHOLE BENCH

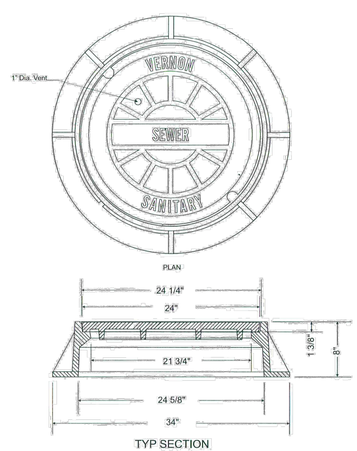
NOT TO SCALE

NOTES:

1. INVERTS TO CONSIST OF RED CLAY BRICK ONLY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. MASONRY TO BE UNIFORM, WITH SPACING OF 3/8".
3. INVERTS SHALL CLOSELY MATCH THE PIPE DIAMETER.
4. INVERTS SHALL NOT BE PREFABRICATED ABOVE GRADE.

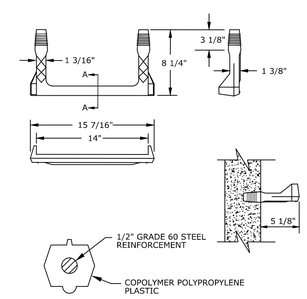
GENERAL MANHOLE NOTES:

1. MANHOLE TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
2. TOP STEP TO BE 18" MAX. BELOW TOP OF FRAME.
3. MANHOLE STEPS TO BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC MODEL#PS2-PF-SL OR CAST ALUMINUM ALLOY 6061 WITH DROP FRONT DESIGN.
4. INSERT RUBBER LIFTING HOLES PLUG FROM OUTSIDE & FILL WITH NON-SHRINK MORTAR INSIDE & OUTSIDE.
5. BRICK RISER COLLAR TO BE PARGED & RECEIVE TWO COATS BITUMINOUS WATERPROOFING MATERIAL.
6. MANHOLE JOINTS SHALL RECEIVE NON-SHRINK GROUT INTERIOR.
7. MANHOLE STEPS SHALL BE 12" ON CENTER.
8. OUTSIDE OF MANHOLE SHALL RECEIVE TWO COATS BITUMINOUS WATERPROOFING MATERIAL.
9. INVERT SHALL CONSIST OF RED BRICK.
10. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90.



SANITARY MANHOLE FRAME & COVER

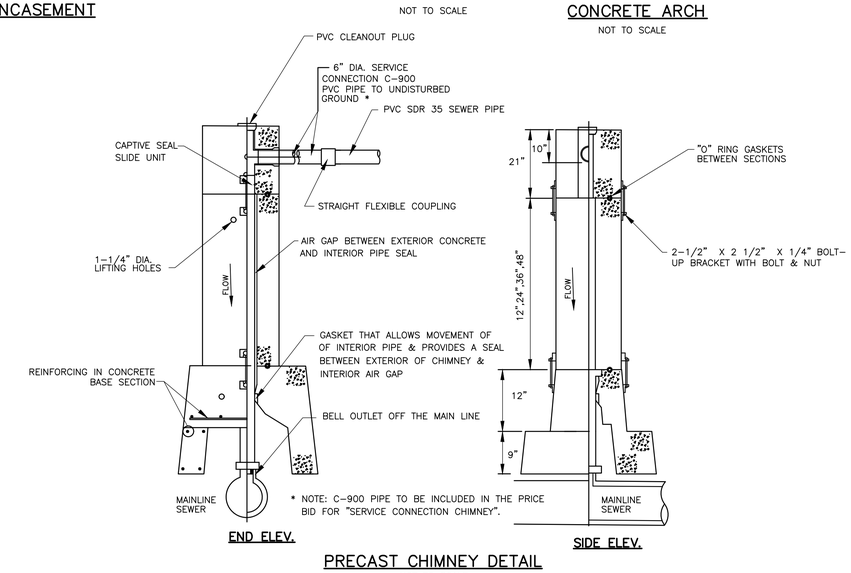
NOT TO SCALE



SECTION "A - A"

SANITARY SEWER MANHOLE STEP

NOT TO SCALE



END ELEV.

SIDE ELEV.

PRECAST CHIMNEY DETAIL

NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: JULY 11, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME
SCALE AS NOTED

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
Filename: P:\Civ3dProj2014\VernonSouthSt64\Prodwg\san details.dwg

SIGNATURE/BLOCK: - -

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: SANITARY SEWER DETAILS

PROJECT NO. 146-195
DRAWING NO. SAN 01
SHEET NO. 03 60

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04 - Traffic
INDEX OF DRAWINGS

DRAWING NUMBER	SHEET NUMBER	DRAWING TITLE	DRAWING NUMBER	SHEET NUMBER	DRAWING TITLE
TRA 01	04 01	INDEX OF TRAFFIC PLANS			
SPM 01 TO SPM 02	04 02 TO 04 03	SIGNING AND PAVEMENT MARKING PLANS			
MPT 01	04 04	DETOUR PLAN			
TR-GS_01 TO TR-GS_02	04 05 TO 04 06	SIGNING DETAILS			

DESIGNED BY:
Cardinal Engineering Associates, Inc.
3 Colony Street
Meriden, Connecticut 06451

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: JUN. 24, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
Filename: P:\Civil3dProj2014\VernonSouthSt\ProdDwgs\04_01IndexOfTraffic.dwg

SIGNATURE/ BLOCK: - -

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: INDEX OF TRAFFIC PLANS

PROJECT NO. 146-195
DRAWING NO. TRA 01
SHEET NO. 04 01

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Plotted: JUN. 30, 2016

DESIGNER/DRAFTER: AD

CHECKED BY: ME

SCALE IN FEET 0 40 80

SCALE 1"=40'

CARDINAL ENGINEERING ASSOCIATES

3 Colony Street | Meriden, CT 06451 | 203-238-1969

Filename: P:\Civ3dProj2014\VernonSouthSt64\Prodwg\VFG-SouthSt(1)(1).dwg

SIGNATURE/ BLOCK: - -

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: SIGNING & PAVEMENT MARKING PLAN

PROJECT NO. 146-195

DRAWING NO. SPM 01

SHEET NO. 04 02

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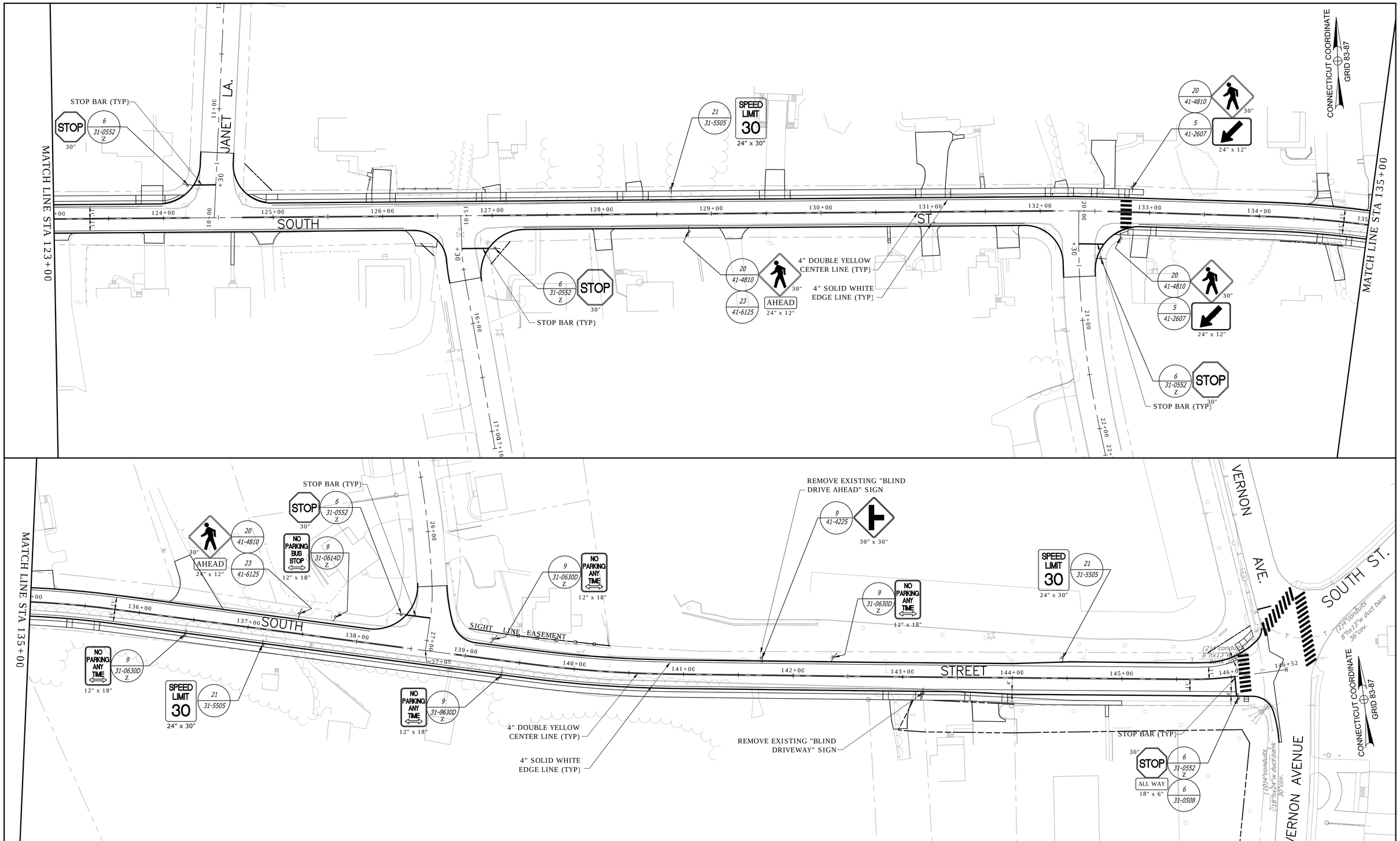

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Plotted: JUN. 30, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME
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SCALE 1"=40'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
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TOWN: VERNON

DRAWING TITLE: SIGNING & PAVEMENT MARKING PLAN

PROJECT NO. 146-195
DRAWING NO. SPM 02
SHEET NO. 04 03

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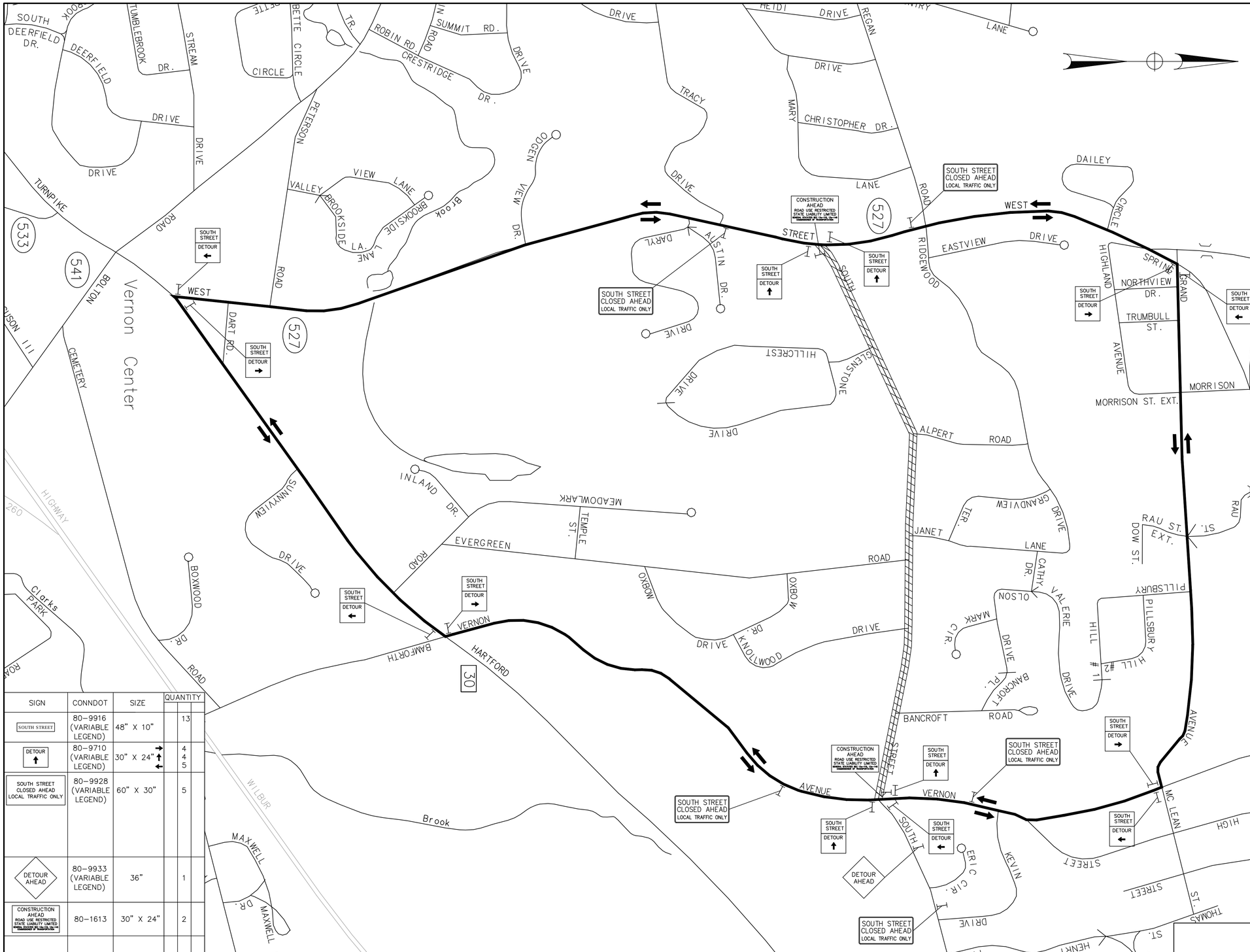


➡	PROPOSED WORK ZONE TRAFFIC FLOW
⊢	CONSTRUCTION SIGN ON PORTABLE SUPPORT
▨	WORK ZONE
	LEGEND

TRAFFIC CONTROL GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. ADJUST ALL SIGN LOCATIONS IN THE FIELD AS DIRECTED BY THE ENGINEER.
2. DETOUR SIGNS SHALL BE COVERED WHEN NOT IN USE AND REMOVED WHEN DETOUR IS NO LONGER NEEDED.
3. CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
4. CONTRACTOR SHALL PROTECT AND MAINTAIN SIDEWALKS AND PEDESTRIAN CROSSINGS.
5. CONTRACTOR SHALL NOTIFY LOCAL AUTHORITES/TRANSPORTATION AGENCIES PRIOR TO IMPLEMENTING DETOUR OR CLOSING LANES.
6. REFER TO SECTION XXXX OF THE PROJECT MANUAL FOR WORK HOURS ON ALL STREETS.
7. LOCATIONS FOR TEMPORARY SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER SO AS NOT TO CONFLICT WITH EXISTING PERMANENT SIGNS. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED OR ADJUSTED TO MEET FIELD CONDITIONS.
8. PRIVATE PROPERTY ACCESS SHALL BE MAINTAINED AT ALL TIMES.
9. PEDESTRIAN ACCESS THROUGH WORK ZONES SHALL BE MAINTAINED AT ALL TIMES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE TOWN OF VERNON TO ESTABLISH AND REVIEW METHODS TO BE UT1LIZED FOR THE SAFE PASSAGE OF SCHOOL AGED CHILDREN AND PASSAGE OF SCHOOL BUSES AS NEEDED ON SOUTH STREET BEFORE THIS IS AFFECTED BY WORK UNDER THIS CONTRACT.
11. BARRICADE WARNING LIGHTS – HIGH INTENSITY SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST–MOUNTED CONSTRUCTION SIGNS.
12. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, LATEST REVISION.
13. COMPLY WITH ALL REQUIREMENT OF SPECIAL PROVISION SECTION 971 MAINTENANCE AND PROTECTION OF TRAFFIC CONTAINED IN THE CONTRACT DOCUMENTS.
14. DETOUR SIGNS TO BE PAID UNDER ITEM #12200127 CONSTRUCTION SIGNS.
15. OBTAIN ALL REQUIRED PERMITS FROM THE TOWN OF VERNON FOR STREET EXCAVATION/OBSTRUCTION.
16. STREETS MAY NOT BE CLOSED WITHOUT SPECIFIC PERMISSION FROM THE TOWN OF VERNON.
17. DURING CONSTRUCTION ACTIVITIES THAT IMPACT SCHOOL BUS STOP LOCATIONS, THE BUS STOPS SHALL BE TEMPORARILY RELOCATED WITHIN 200' OF EXISTING LOCATION AND CLEARLY MARKED WITH SIGNS. THE CONTRACTOR SHALL COORDINATE WITH BOARD OF EDUCATION/BUS COMPANY TWO WEEKS IN ADVANCE OF IMPACTING EXISTING SCHOOL BUS STOP LOCATIONS.
18. MAINTAIN NORMAL TRAFFIC OPERATIONS DURING NON–WORK PERIODS.
19. OPEN THE STREET TO TRAFFIC AT THE END OF EACH WORK PERIOD AND PLATE OR BACKFILL ALL EXCAVATIONS TO ACCOMMODATE VEHICULAR TRAFFIC.
20. PROVIDE TEMPORARY PEDESTRIAN CROSSINGS AT ALL EXISTING CROSSWALKS AS REQUIRED.
21. PLACE TEMPORARY "NO PARKING" SIGNS ALONG THE STREET AS REQUIRED FOR EACH WORK ZONE AND AS DIRECTED BY THE ENGINEER OR THE TOWN OF VERNON.

SIGN	CONNDOT	SIZE	QUANTITY	
SOUTH STREET	80–9916 (VARIABLE LEGEND)	48" X 10"	13	
DETOUR ↑	80–9710 (VARIABLE LEGEND)	30" X 24"	➡ 4 ↑ 4 ⬅ 5	
SOUTH STREET CLOSED AHEAD LOCAL TRAFFIC ONLY	80–9928 (VARIABLE LEGEND)	60" X 30"	5	
DETOUR AHEAD	80–9933 (VARIABLE LEGEND)	36"	1	
CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED	80–1613	30" X 24"	2	

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: MAR. 24, 2016

DESIGNER/DRAFTER: AD
CHECKED BY: ME
SCALE IN FEET 0 400 800
SCALE 1"=400'

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969
Filename: P:\Civ3dProj2014\VernonSouthSt64\Prodwg\MPT 01.dwg

SIGNATURE/BLOCK: - -

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: DETOUR PLAN

PROJECT NO. 146-195
DRAWING NO. MPT 01
SHEET NO. 04 04

FINAL DESIGN REVIEW

R1 – SERIES

R1–1 *

LEGEND – WHITE
BACKGROUND – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.31	24	31–0536	1	.080
5.19	30	31–0552	1	.080
7.98	36	31–0553	1	.080
13.3	48	31–0557	2	.100

R1–2 *

LEGEND – RED
BACKGROUND – WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.90	36	31–0523	1	.080
6.77	48	31–0522	2B	.100
10.83	60	31–0528	2B	.100

R1–3 *

LEGEND – WHITE
BACKGROUND – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	31–0508		.080

R2 – SERIES

R2–1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–5505	1	.080
7.50	30X36	31–5504	1	.080
12.00	36X48	31–5506	2	.100
20.00	48X60	31–5507	2B	.100

R3 – SERIES

R3–1

31–1604 OVERHEAD MTD
LEGEND – BLACK
BACKGROUND – WHITE
CIRCLE & DIAGONAL – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31–1604		.080
6.25	30X30	31–1617	1	.080
5.00	30X24	31–1618		.080
9.00	36X36	31–1627	2	.080
7.50	36X30	31–1628		.080

R3–2

31–1603 OVERHEAD MTD
LEGEND – BLACK
BACKGROUND – WHITE
CIRCLE & DIAGONAL – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31–1603		.080
6.25	30X30	31–1619	1	.080
5.00	30X24	31–1620		.080
9.00	36X36	31–1629	2	.080
7.50	36X30	31–1630		.080

R3–3

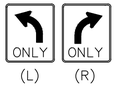
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31–1648	1	.080
9.00	36X36	31–1647	2	.080

R3–4

LEGEND – BLACK
BACKGROUND – WHITE
CIRCLE & DIAGONAL – RED

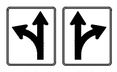
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31–1622	1	.080
9.00	36X36	31–1632	2	.080

R3–5



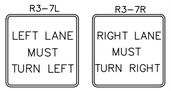
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31–0135L	1	.080
4.00	24X24	31–0138R	1	.080
7.50	30X36	31–0183L	1	.080
7.50	30X36	31–0184R	1	.080

R3–6



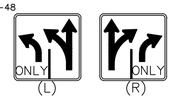
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31–0157L	1	.080
7.50	30X36	31–0158R	1	.080

R3–7L / R3–7R



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31–0117L	1	.080
6.25	30X30	31–0118R	1	.080
9.00	36X36	31–0120L	2	.080
9.00	36X36	31–0123R	2	.080

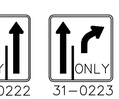
R3–48



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31–0262L	1	.080
6.25	30X30	31–0261R	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31–0125	1	.080
6.25	30X30	31–0165	1	.080
7.50	30X36	31–0175	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31–0290	1	.080



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

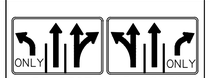
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31–0279	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3–8b

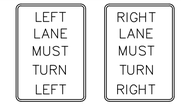
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31–0302	2	.100



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30		2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31–0334	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31–0121L	2B	.100
20.00	48X60	31–0122R	2B	.100

R4 – SERIES

R4–1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–1502	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31–1574	2B	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31–1504	2B	.100

R4–3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–1562	1	.080
20.00	48X60	31–1564	2B	.100

R4–7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–1526	1	.080
12.00	36X48	31–1536	2	.100
20.00	48X60	31–1546	2B	.100

R5 – SERIES

R5–1 *

LEGEND – WHITE
BACKGROUND – WHITE
CIRCLE – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31–1119	1	.080
9.00	36X36	31–1120	2	.080
16.00	48X48	31–1121	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31–1775	2	.100

R5–1a *

LEGEND – WHITE
BACKGROUND – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31–1122	2	.080
8.75	42X30	31–1123	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–1790	1	.080
20.00	48X60	31–1792	2B	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.00	54X72	31–1719	2B	.125

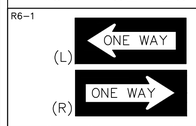
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31–1702	1	.080

R5–10c

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31–1774	1	.080

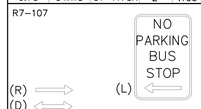
R6 – SERIES

R6–1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31–1188L	1	.080
3.00	36X12	31–1177R	1	.080
6.75	54X18	31–1189L	2	.100
6.75	54X18	31–1178R	2	.100

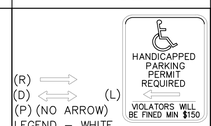
R7–107



LEGEND – RED
BACKGROUND – WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31–0614	1	.080

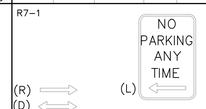
R7 – SERIES



LEGEND – WHITE
BACKGROUND – BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	12X24	31–0629	1	.080

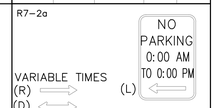
R7–1



LEGEND – RED
BACKGROUND – WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31–0630	1	.080

R7–2a



LEGEND – RED
BACKGROUND – WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31–0603	1	.080

R8 – SERIES

R8–7

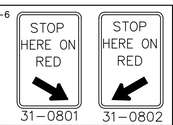
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	48X36	31–0670	2	.100

R9 – SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.50	66X60	31–1733	2B	.125

R10 – SERIES

R10–6



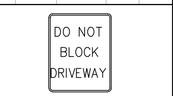
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080

R10–11b

OVERHEAD MOUNTED

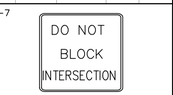
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31–0823		.080
9.00	36X36	31–0816	2	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31–0847	1	.080
20.00	48X60	31–0849	2B	.100



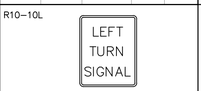
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–0803	1	.080
12.00	36X48	31–0804	2	.100

R10–7



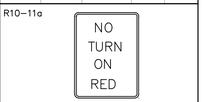
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–0806	1	.080
12.00	36X48	31–0807	2	.100

R10–10L



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–0842		.080
7.50	30X36	31–0852	1	.080

R10–11a



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31–0830	1	.080
12.00	36X48	31–0819	2	.100

R11 – SERIES

R11–1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31–1915	1	.080
20.00	48X60	31–1918	2B	.100

RETROREFLECTIVE STRIP

*

LEGEND – N/A
BACKGROUND – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.00	4X36	31–5003	1	.080
2.00	4X72	31–5004	1	.080
2.67	4X96	31–5005	1	.080

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R– SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS – SEE STANDARD SHEET TR–1208_02 – "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS – TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR–1114_01 – "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND – WHITE (SILVER) – EXCEPT AS NOTED.
LEGEND – BLACK – EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY *.
* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
5	6-2015	REVISED DRAWING NO.
4	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
3	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
2	6-2010	INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D. K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: $DATE$

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILES$

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE: SIGN FACE SHEET ALUMINUM R–SERIES SIGNS TYPICAL DETAILS

PROJECT NO. 146-195
DRAWING NO. TR–GS_01
SHEET NO. 04 05

P:\Civil 3d Projects 2014\Vernon South 9640\Production Drawings\CTDOT_TRAFFIC_GS.dwg, TR_GDS_X, 6/23/2016 5:44:07 PM,
DWG To PDF.pc3, ANSI expand D (34.00 x 22.00 Inches)

S – SERIES

S1–1
*

LEGEND – BLACK
BACKGROUND – FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	36	41–2112	1	.080
12.00	48	41–2113	2	.100

W1 – SERIES

W1–1L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4006	1	.080
9.00	36	41–4031	1	.080
16.00	48	41–4056	2	.100

W1–1R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4005	1	.080
9.00	36	41–4160	1	.080
16.00	48	41–4055	2	.100

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4141L	1	.080
9.00	36	41–4140R	1	.080
16.00	48	41–4062L	2	.100
16.00	48	41–4061R	2	.100

W1–2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4028	1	.080
9.00	36	41–4084	1	.080
16.00	48	41–4068	2	.100

W1–2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4027	1	.080
9.00	36	41–4083	1	.080
16.00	48	41–4067	2	.100

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.0	36	41–4139L	1	.080
9.0	36	41–4140R	1	.080
16.00	48	41–4088L	2	.100
16.00	48	41–4087R	2	.100

W1–6

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41–4222	2	.100
12.50	60X30	41–4224	2	.100

W1–7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41–4207	2	.100
12.50	60X30	41–4208	2	.100

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4128L	1	.080
9.00	36	41–4127R	1	.080
16.00	48	41–4058L	2	.100
16.00	48	41–4057R	2	.100

W1–8

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	41–4250	1	.080
5.00	24X30	41–4203	1	.080
7.50	30X36	41–4204	1	.080
12.00	36X48	41–4251	2	.080

W1–8
*

LEGEND – BLACK
BACKGROUND – FLUORESCENT YELLOW
(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	41–4211	1	.080

W1–10

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4085L	1	.080
9.00	36	41–4043R	1	.080
16.00	48	41–4090L	2	.100
16.00	48	41–4089R	2	.100

W2 – SERIES

W2–1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4226	1	.080
9.00	36	41–4236	1	.080
16.00	48	41–4246	2	.100

W2–2

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4225	1	.080
9.00	36	41–4235	1	.080
16.00	48	41–4245	2	.100

W2–3

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4220L	1	.080
6.25	30	41–4219R	1	.080
9.00	36	41–4253L	1	.080
9.00	36	41–4252R	1	.080
16.00	48	41–4244L	2	.100
16.00	48	41–4243R	2	.100

W2–4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4217	1	.080
9.00	36	41–4255	1	.080
16.00	48	41–4247	2	.100

W3 – SERIES

W3–1

OCTAGON – RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–0501	1	.080
9.00	36	41–0502	1	.080
16.00	48	41–0503	2	.100

W3–2

TRIANGLE – RED & WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–0504	1	.080
9.00	36	41–0505	2	.100
16.00	48	41–0506	2	.100

W3–3

SYMBOL & LEGEND – BLACK
BACKGROUND – YELLOW
TOP CIRCLE – RED
BOTTOM CIRCLE – GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–0835	1	.080
9.00	36	41–0836	1	.080
16.00	48	41–0848	2	.100
25.00	60	41–0860	2B	.125

WHEN FLASHING STOP AHEAD

W/ FLASHERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
25.00	60	41–0534	2B	.125

W4 – SERIES

W4–1

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4448L	1	.080
9.00	36	41–4449R	1	.080
16.00	48	41–4452L	2	.100
16.00	48	41–4459R	2	.100

W4–2

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4442L	1	.080
9.00	36	41–4441R	1	.080
16.00	48	41–4446L	2	.100
16.00	48	41–4447R	2	.100

W4–3

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4468L	1	.080
9.00	36	41–4470R	1	.080
16.00	48	41–4435L	2	.100
16.00	48	41–4434R	2	.100

W5 – SERIES

W5–1

ROAD NARROWS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4402	1	.080
16.00	48	41–4404	2	.100

W6 – SERIES

W6–1 W6–2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4335	1	.080
16.00	48	41–4330	2	.100

W6–3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4329	1	.080
16.00	48	41–4331	2	.100

W7 – SERIES

W7–1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4506	1	.080
9.00	36	41–4530	1	.080
16.00	48	41–4508	2	.100

W8 – SERIES

W8–5

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4519	1	.080
9.00	36	41–4520	1	.080
16.00	48	41–4521	2	.100

W9 – SERIES

W9–1

LEFT LANE ENDS (L)
RIGHT LANE ENDS (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4443L	1	.080
9.00	36	41–4440R	1	.080
16.00	48	41–4444L	2	.100
16.00	48	41–4445R	2	.100

W9–2

LANE ENDS MERGE LEFT (L)
LANE ENDS MERGE RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4454L	1	.080
9.00	36	41–4453R	1	.080
16.00	48	41–4456L	2	.100
16.00	48	41–4455R	2	.100

SLOW VEHICLE LANE ENDS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
22.00	66X48	41–1510	2B	.125

W10 – SERIES

W10–1

R R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.07	36	41–2201	1	.080

W10–8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4680	1	.080
9.00	36	41–4681	1	.080
16.00	48	41–4692	2	.100

W11 – SERIES

W11–2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4810	1	.080
9.00	36	41–4811	1	.080
16.00	48	41–4812	2	.100

W12 – SERIES

W12–1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41–4213	1	.080
9.00	36	41–4215	1	.080
16.00	48	41–4214	2	.100

W12–2

00'-0"

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41–4706	1	.080
16.00	48	41–4708	2	.100

LEFT LANE (L)
RIGHT LANE (R)

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	41–4729L		.080
7.50	36X30	41–4728R		.080

W13 – SERIES

W13–1

00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	41–5568		.080
4.00	24X24	41–5569		.080
6.25	30X30	41–5573		.080
16.00	48X48	41–5572		.100

W13–2

EXIT 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41–5596	2B	.100

W13–3

RAMP 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41–5598	2B	.100

W16 – SERIES

W16–2aP

41–6130 000 FT
41–6132 000 FT
41–6134 0000 FT

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–6130		.080
3.75	30X18	41–6132		.080
7.00	42X24	41–6134		.100

W16–7PL

(SUBPLATE)
USE WITH W11-2 AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–2607		.080
3.75	30X18	41–2608		.080

W16–7PR

(SUBPLATE)
USE WITH W11-2 AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–2609		.080
3.75	30X18	41–2610		.080

W16–9P

AHEAD

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–6125		.080
3.75	30X18	41–6112		.080
6.00	36X24	41–6116		.080
12.00	48X36	41–6115		.100

W16–2aP
*
41–6130 000 FT
41–6132 000 FT

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND – BLACK
BACKGROUND – FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–6140		.080
3.75	30X18	41–6142		.080

W16–7PL
*

(SUBPLATE)
USE WITH S1-1 AT CROSSWALK
LEGEND – BLACK
BACKGROUND – FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–2617		.080
3.75	30X18	41–2618		.080

W16–7PR
*

(SUBPLATE)
USE WITH S1-1 AT CROSSWALK
LEGEND – BLACK
BACKGROUND – FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–2619		.080
3.75	30X18	41–2620		.080

W16–9P
*

AHEAD

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND – BLACK
BACKGROUND – FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41–6126	_	.080
3.75	30X18	41–6137	_	.080
6.00	36X24	41–6138	_	.080
12.00	48X36	41–6139	_	.100

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

BACKGROUND - YELLOW - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY *.
* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
4	6-2015	REVISED DRAWING NO.
3	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
2	11-2013	UPDATED PER MUTCD.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D.K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: $DATE$

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILES$

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
RECONSTRUCTION OF SOUTH STREET

TOWN: VERNON

DRAWING TITLE:
SIGN FACE SHEET ALUMINUM
S&W SERIES SIGNS TYPICAL DETAILS

Y

PROJECT NO. 146-195
DRAWING NO. TR-GS_02
SHEET NO. 04 06

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DWG To PDF.pc3, ANSI expand D (34.00 x 22.00 Inches)