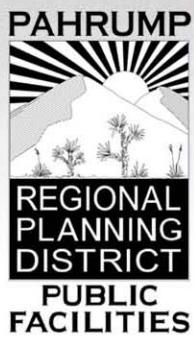


FINAL REPORT

Wastewater Treatment

TRUNK LINE ALTERNATIVES



PREPARED FOR:
NYE COUNTY
Nye County Public Works
1520 E. Basin Ave.
Pahrump, Nevada 89060

PREPARED BY:
TRI-CORE ENGINEERING
Project Number: 5112.0006

Sewer Trunk Line Design

All sewer lines proposed in this report have been designed in accordance with standard engineering criteria. In the absence of specific county design standards the following discussion reports the engineering criteria used to design the waste water treatment trunk lines alignments shown in the appendices of this report. The appendices include a general over view map that shows the treatment site and overall length/extent of the trunk line, an option of probable cost, summary of quantity takeoff on for each sheet and plan and profile engineering drawings for each line.

Hydraulic Design

All proposed sewer lines for this report have been designed to give a mean velocity of not less than 2.5 fps, based upon a manning formula, using an "n" value of 0.013. At the lower velocities, hydrogen sulfide problems are a concern and therefore must be avoided and further analyzed where lower velocities persist. Conversely, to prevent abrasion and erosion of the pipe material, the maximum velocity has been limited to 9 ft/s at estimated peak flow. In no section of this design has this maximum been exceeded, but in cases that flows of this speed are considered in the future, DIP or equivalent pipe material is should be considered.

All velocities analyzed and capacities for this report were done under peak flow conditions, with Haestad's FlowMaster Version 7.0 computer software. The design assumptions for each line are as follows:

- Material: pre-cast concrete ($n = 0.013$)
- Minimum and Maximum Slope: 0.00033 ft/ft and 0.005 ft/ft respectively
- Minimum and Maximum Depth of Line/Manhole: 6 ft and 30 ft respectively
- Peaking Factor: 2.5
- Flow Depth: 2/3 of pipe size
- Minimum Flows: greater than 5 cfs (*to insure minimum mean velocities*)
- Instantaneous Flows: Each truck line is aligned to connect to an available collection system.
- Intermediate Connection: All lines do not have service connections along each alignment. Each line is intended to carry the flow generated at the beginning of the alignment.

The typical pipe size design for the truck lines is based on a pre-cast concrete pipe, 48 inches diameter. This size of pipe can accommodate the peak flows expected from the 0.5 to 3 MGD existing collection system in which the lines are to tie into. Flow capacity calculations regarding the discharge capacities are included in the appendices of this report. In summary of those calculations, the maximum velocity at maximum allowable slope is 9.0 ft/s with a capacity of 79.6

cfs, where as the minimum velocity at minimum allowable slope is 2.5 fps with a capacity of 20.5 cfs.

Horizontal and Vertical Control

All vertical and horizontal information presented in the appendices of this report is derived from 2' contour mapping completed by Kenney Aerial Mapping. The aerial survey control was completed by Civilwise Services, LLC. These two sources of mapping information produced an accurate contour map of the valley covering 220 square miles of the Pahrump valley. The contour interval is 2 foot. This elevation data is depicted along each of the trunk lines as the existing ground and serves as the datum for all the line depths, slopes and grades.

Manholes Spacing and Design

Manholes for these alignments were placed at along the approximate centerline of streets where available. These approximate alignments minimized or avoided additional ROW acquisition by the County. ROW acquisition is still included as part of the option of probable cost to account for any possible future needs the County might need in line construction. Manholes were installed at the end of each line, at all changes of grade, pipe size, alignment and at distances not to exceed 1,400 linear feet. Manholes depicted along the alignment are five (5) feet in diameter.

Summary of Trunk Line Design

Each site evaluated by this waste water treatment study is shown in the appendices of this report. Each of the sites and corresponding truck line data is summarized in Table 1 below.

Table 1

| Site Name | Number of Truck Lines | Total Length of Trunk Lines (LF) | OPC of Truck Lines Cost (\$ Mill) | Total Admin. & Design (\$ Mill) | Grand Total (\$ Mill) |
|-----------|-----------------------|----------------------------------|-----------------------------------|---------------------------------|-----------------------|
| Site #3 | Manse Road | 46,896 | 14.4 | 3.3 | 17.7 |
| | Calvada Blvd. | 29,220 | 9.0 | 2.1 | 11.1 |
| Site #1 | Thousandaire Blvd. | 19,975 | 6.2 | 1.4 | 7.57 |
| Site #4 | Simkins Rd | 22,372* | 6.3 | 1.5 | 7.8 |

*Site 4's total length includes 2,830 LF of DIP force main.

The OPC truck line costs listed above includes design elements, dust, erosion and quality control (5%), construction survey (2%), and finally contingencies

(15%). These considerations make up approximately 81.5% of the grand total. The administration and design consts listed above include Administration and legal (5%), Engineering design (10%), and Construction management (8%). These considerations make up approximately 18.5% of the grand total. The Grand total above in intended to communicate the total capital cost of material, design, and construction for each truck line.

Cross Section - Max Slope

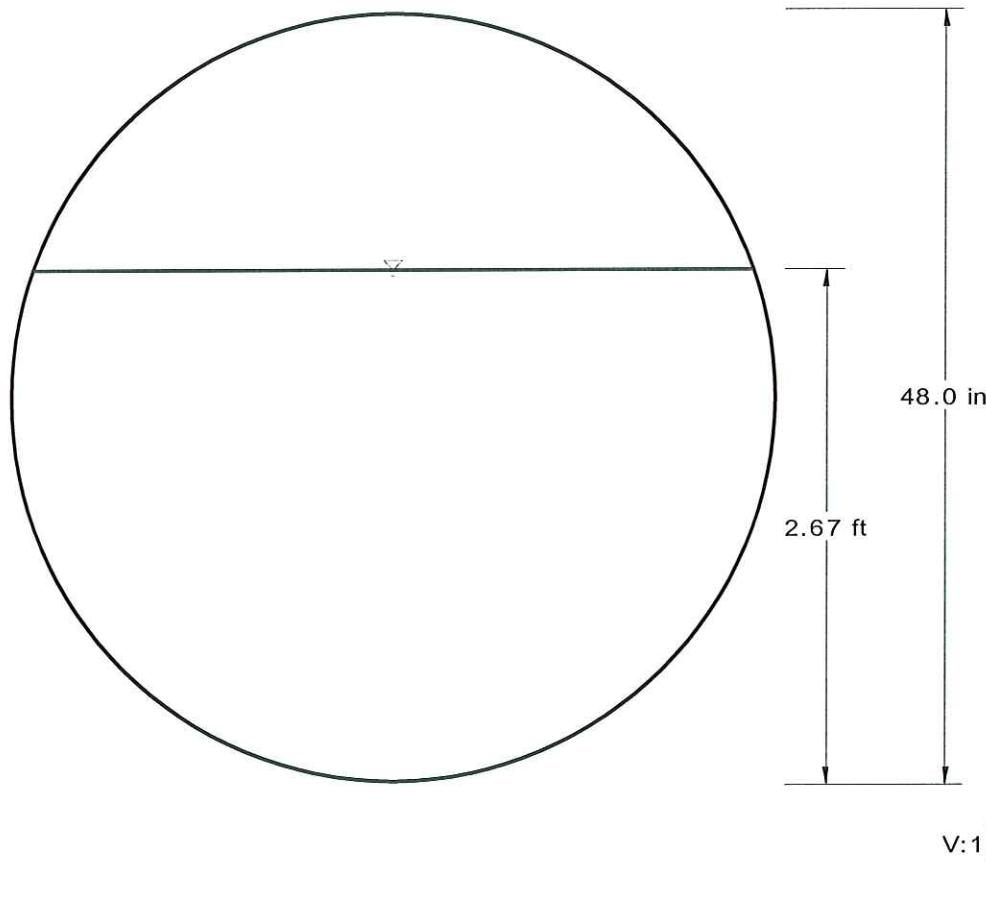
Cross Section for Circular Channel

Project Description

| | |
|--------------|----------------------|
| Worksheet | Circular Channel - 1 |
| Flow Element | Circular Channel |
| Method | Manning's Formula |
| Solve For | Discharge |

Section Data

| | |
|----------------------|----------------|
| Mannings Coefficient | 0.013 |
| Channel Slope | 0.005000 ft/ft |
| Depth | 2.67 ft |
| Diameter | 48.0 in |
| Discharge | 79.63 cfs |



Worksheet

Worksheet for Circular Channel

Project Description

| | |
|--------------|----------------------|
| Worksheet | Circular Channel - 1 |
| Flow Element | Circular Channel |
| Method | Manning's Formula |
| Solve For | Discharge |

Input Data

| | |
|----------------------|----------------|
| Mannings Coefficient | 0.013 |
| Channel Slope | 0.005000 ft/ft |
| Depth | 2.67 ft |
| Diameter | 48.0 in |

Results

| | |
|------------------|---------------------|
| Discharge | 79.63 cfs |
| Flow Area | 8.9 ft ² |
| Wetted Perimeter | 7.64 ft |
| Top Width | 0.00 ft |
| Critical Depth | 2.70 ft |
| Percent Full | 66.7 % |
| Critical Slope | 0.004817 ft/ft |
| Velocity | 8.95 ft/s |
| Velocity Head | 1.24 ft |
| Specific Energy | 3.91 ft |
| Froude Number | 1.03 |
| Maximum Discharg | 109.25 cfs |
| Discharge Full | 101.57 cfs |
| Slope Full | 0.003073 ft/ft |
| Flow Type | Supercritical |

Cross Section - Min Slope

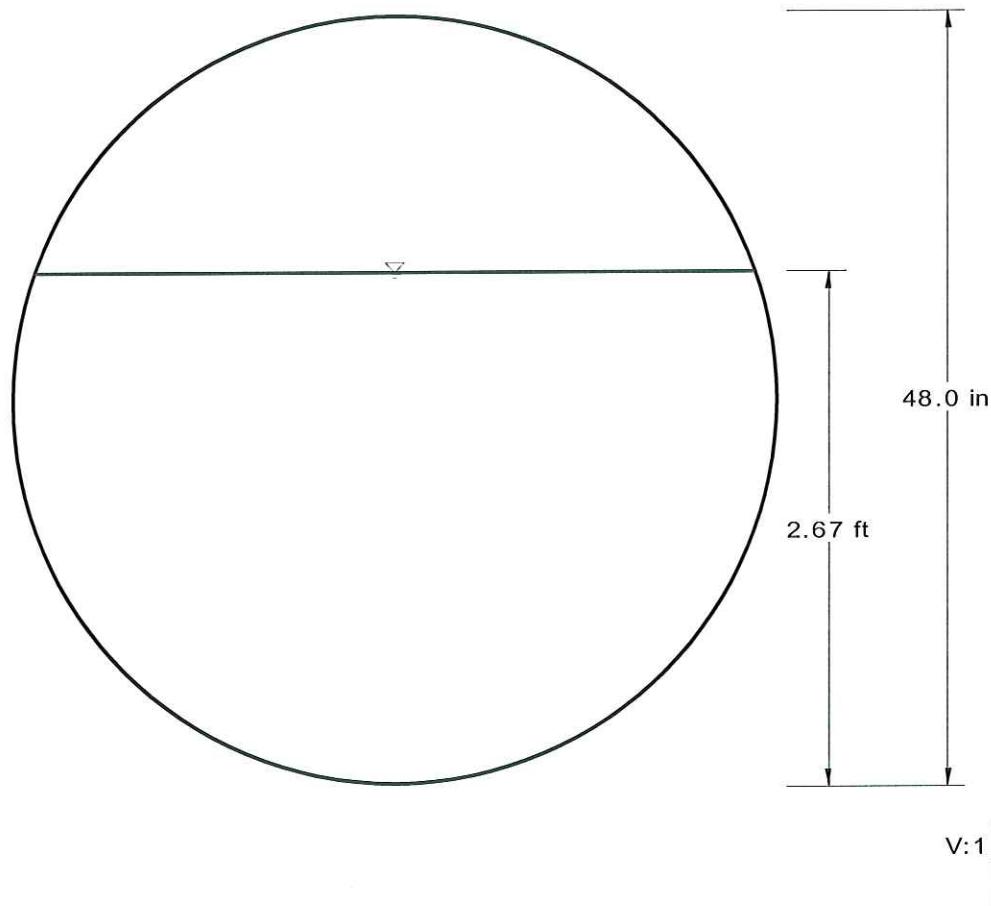
Cross Section for Circular Channel

Project Description

| | |
|--------------|----------------------|
| Worksheet | Circular Channel - 1 |
| Flow Element | Circular Channel |
| Method | Manning's Formula |
| Solve For | Discharge |

Section Data

| | |
|----------------------|----------------|
| Mannings Coefficient | 0.013 |
| Channel Slope | 0.000330 ft/ft |
| Depth | 2.67 ft |
| Diameter | 48.0 in |
| Discharge | 20.46 cfs |



Worksheet

Worksheet for Circular Channel

Project Description

| | |
|--------------|----------------------|
| Worksheet | Circular Channel - 1 |
| Flow Element | Circular Channel |
| Method | Manning's Formula |
| Solve For | Discharge |

Input Data

| | |
|----------------------|----------------|
| Mannings Coefficient | 0.013 |
| Channel Slope | 0.000330 ft/ft |
| Depth | 2.67 ft |
| Diameter | 48.0 in |

Results

| | |
|------------------|---------------------|
| Discharge | 20.46 cfs |
| Flow Area | 8.9 ft ² |
| Wetted Perimeter | 7.64 ft |
| Top Width | 0.00 ft |
| Critical Depth | 1.33 ft |
| Percent Full | 66.7 % |
| Critical Slope | 0.003548 ft/ft |
| Velocity | 2.30 ft/s |
| Velocity Head | 0.08 ft |
| Specific Energy | 2.75 ft |
| Froude Number | 0.26 |
| Maximum Discharg | 28.07 cfs |
| Discharge Full | 26.09 cfs |
| Slope Full | 0.000203 ft/ft |
| Flow Type | Subcritical |

Curve

Plotted Curves for Circular Channel

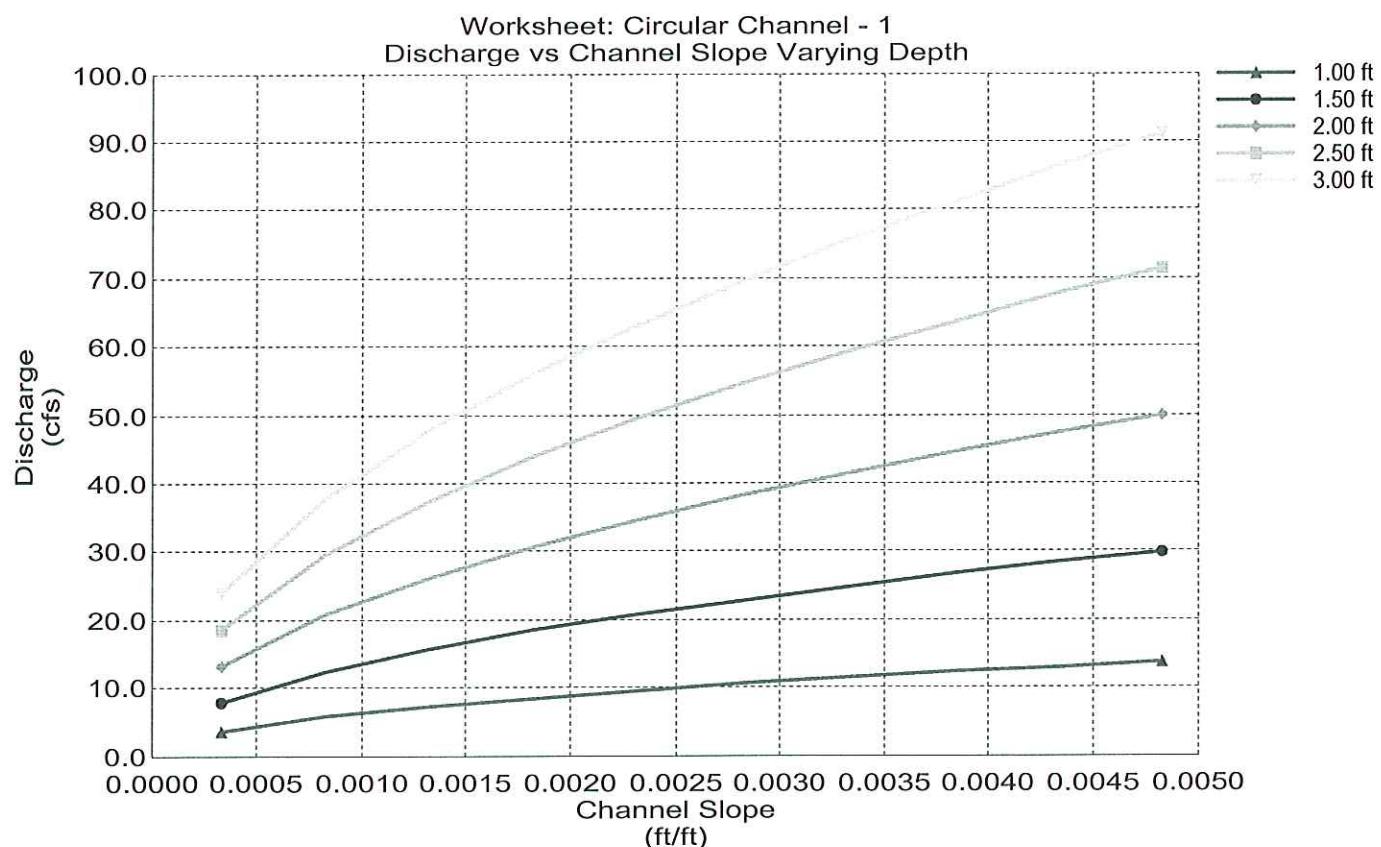
Project Description

| | |
|--------------|----------------------|
| Worksheet | Circular Channel - 1 |
| Flow Element | Circular Channel |
| Method | Manning's Formula |
| Solve For | Discharge |

Input Data

| | |
|----------------------|---------|
| Mannings Coefficient | 0.013 |
| Diameter | 48.0 in |

| Attribute | Minimum | Maximum | Increment |
|-----------------------|----------|----------|-----------|
| Channel Slope (ft/ft) | 0.000330 | 0.005000 | 0.000500 |
| Depth (ft) | 1.00 | 3.00 | 0.50 |





**TRI-CORE
ENGINEERING**
7272 E. INDIAN SCHOOL RD.
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

DRAWN: SDG
DESIGNED: SDG
CHECKED: MDA

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DATE:

NO.:

DESCRIPTION:

Table 1 - OPC for Manse Road

| DESCRIPTION | QUANTITY | UNIT | UNIT COST | TOTAL COST per SY |
|---|----------|------|---|------------------------|
| Remove and replace aggregate service road | 8019.896 | SY | \$2.40 | \$19,247.75 |
| Remove and replace asphalt pavement | 12199.79 | SY | \$3.60 | \$43,919.25 |
| 48" Sanitary sewer line | 46896 | LF | \$240.00 | \$11,255,040.00 |
| Sewer manhole 10 to 15 ft | 13 | EA | \$6,500.00 | \$84,500.00 |
| Sewer manhole 15 to 20 ft | 15 | EA | \$7,000.00 | \$105,000.00 |
| Sewer manhole over 20 ft | 32 | EA | \$7,500.00 | \$240,000.00 |
| Right of way acquisition | 46896 | SF | \$1.15 | \$53,930.40 |
| | | | | ----- |
| | | | Subtotal | \$11,801,637.40 |
| | | | | |
| | | | <i>Dust, Erosion and Quality Control (5%)</i> | \$590,081.90 |
| | | | <i>Construction Survey (2%)</i> | \$236,032.70 |
| | | | <i>Contingencies (15%)</i> | \$1,770,245.60 |
| | | | Construction Subtotal | \$14,397,997.60 |
| | | | | |
| | | | <i>Administration and Legal (5%)</i> | \$719,899.90 |
| | | | <i>Engineering Design (10%)</i> | \$1,439,799.80 |
| | | | <i>Construction Management (8%)</i> | \$1,151,839.80 |
| | | | | |

Total Cost = \$17,709,537.10

Notes:

For acquisition of easements on private land a cost of \$50,000 per acre is assumed.

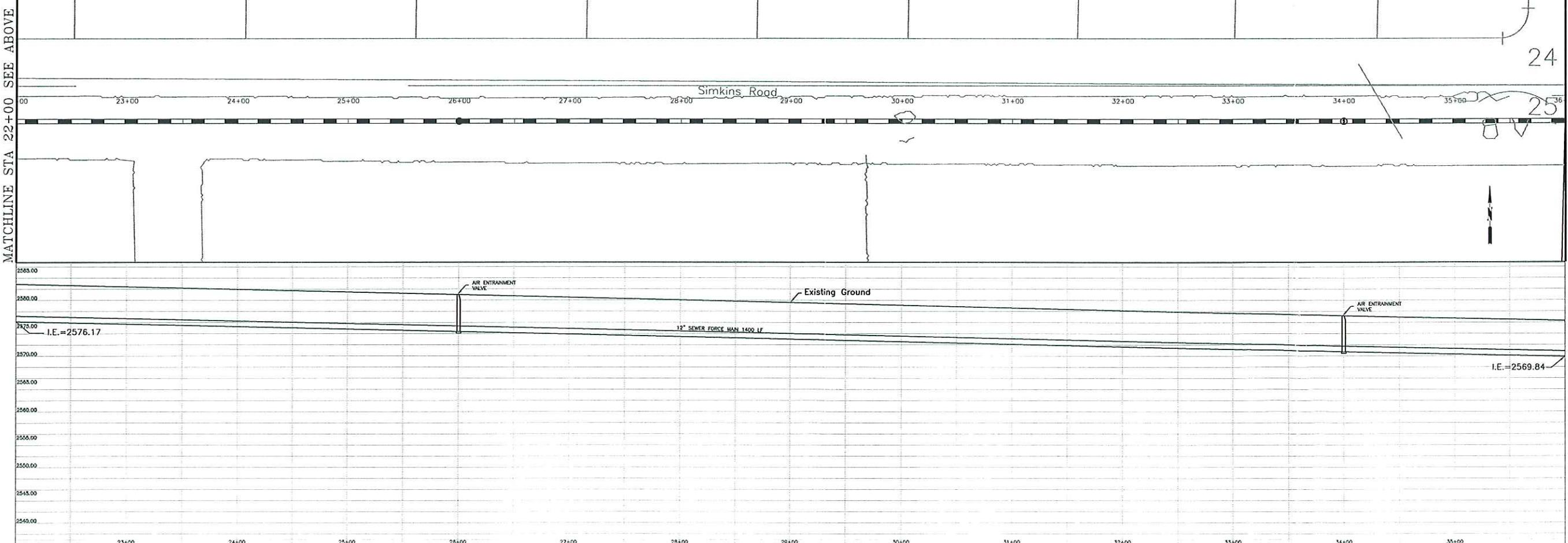
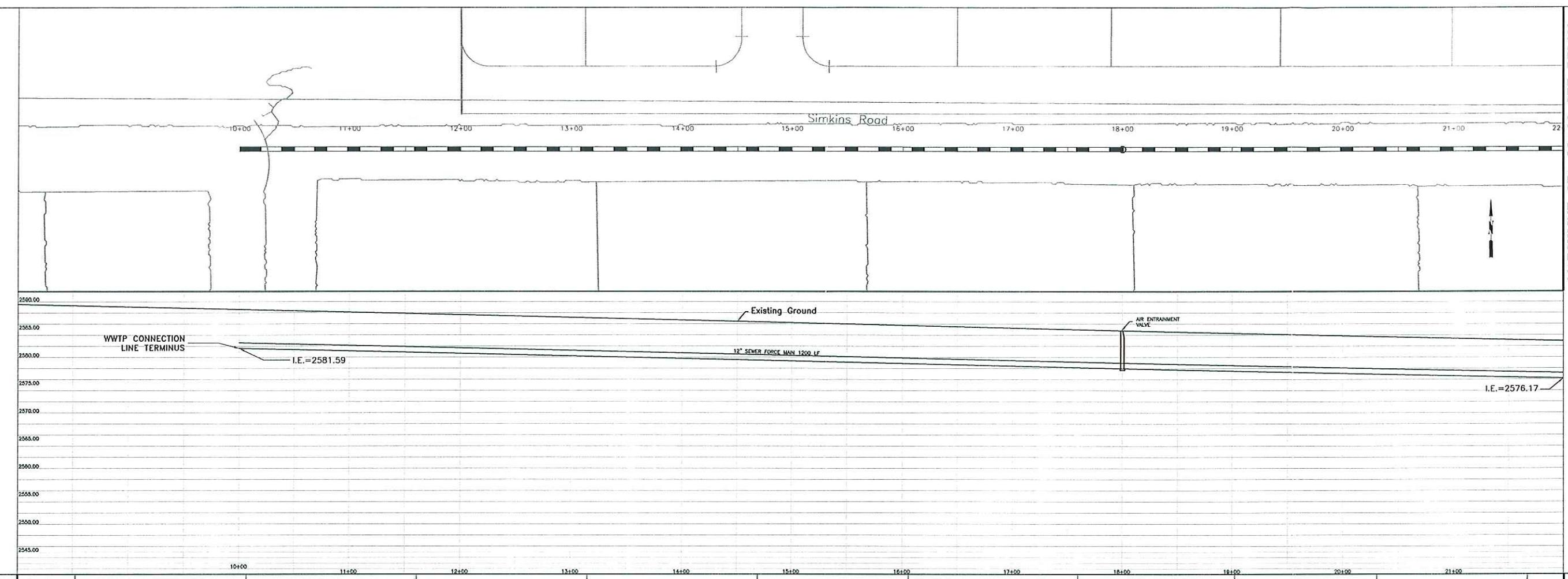
Unit prices based on construction costs for similar work on drainage projects in Arizona & Nevada.

Wastewater Treatment & Truckline Alternative Study
 Manser Rd Trunkline Sewer to Regional WWTP
 Nye County, Nevada
 4/15/2005

| DESCRIPTION | | | SHEET | | SHEET | | SHEET | | SHEET | | SHEET | | SHEET | | SHEET | | SHEET | | SHEET | |
|---|------|------|-------|------|-------|------|-------|------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|------|
| | UNIT | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | TOTAL | UNIT |
| Remove and replace aggregate service road | SY | | | | | | | | | 2041.73 | | | | | | | | | 6019.9 | SY |
| Remove and replace asphalt pavement | SY | | | | | | | | | 58.335 | 2177.84 | 2177.84 | 2177.84 | 2177.84 | 2177.84 | 2177.84 | 2177.84 | 2177.84 | 12200 | SY |
| 48" Sanitary sewer line | LF | 2700 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2196 | 46896 | LF |
| Sewer manhole 10 to 15 ft | EA | | | | 1 | 4 | 3 | 4 | 1 | | | | | | | | | | 13 | EA |
| Sewer manhole 15 to 20 ft | EA | 3 | 3 | 2 | 2 | | | | 3 | | | | | | | | | 2 | 15 | EA |
| Sewer manhole over 20 ft | EA | | | 2 | | | | | | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 32 | EA |
| Right of way acquisition | SF | 2700 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2196 | 46896 | SF |

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

MATCHLINE STA 22+00 SEE BELOW



TRI-CORE
ENGINEERING
7272 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201



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1
9



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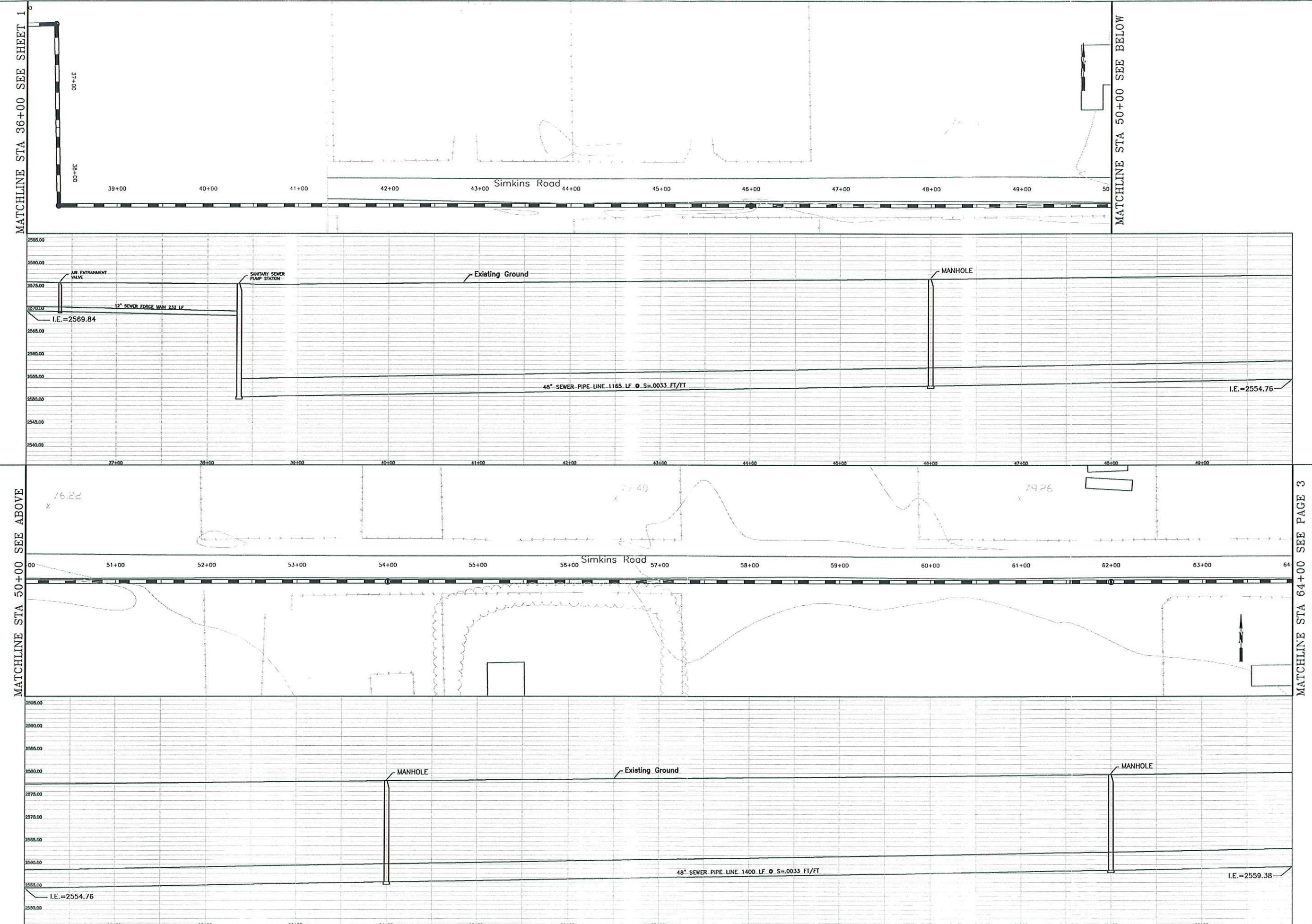
Site 4
TRUNKLINE SEWER
TO REGIONAL WWTP

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Call for the Blue Stakes
ELITE STAKES CENTER
COLLECT
263-1100

FILE NAME:
P:\\5112\\0006 Waste Water System Study\\Cadd\\Site 4\\SwrEW02.dwg Apr 22 2005 - 8:19am
REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:

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9



PAHRUMP REGIONAL PLANNING DISTRICT
PUBLIC FACILITIES

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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CONSTRUCTION**

| | |
|-------------|-------------|
| DESIGN BY: | BP |
| DRAWN BY: | BP |
| CHECKED BY: | DL |
| REVISIONS | DESCRIPTION |
| No. | Date |

Site 4
**TRUNKLINE SEWER
TO REGIONAL WWTP**



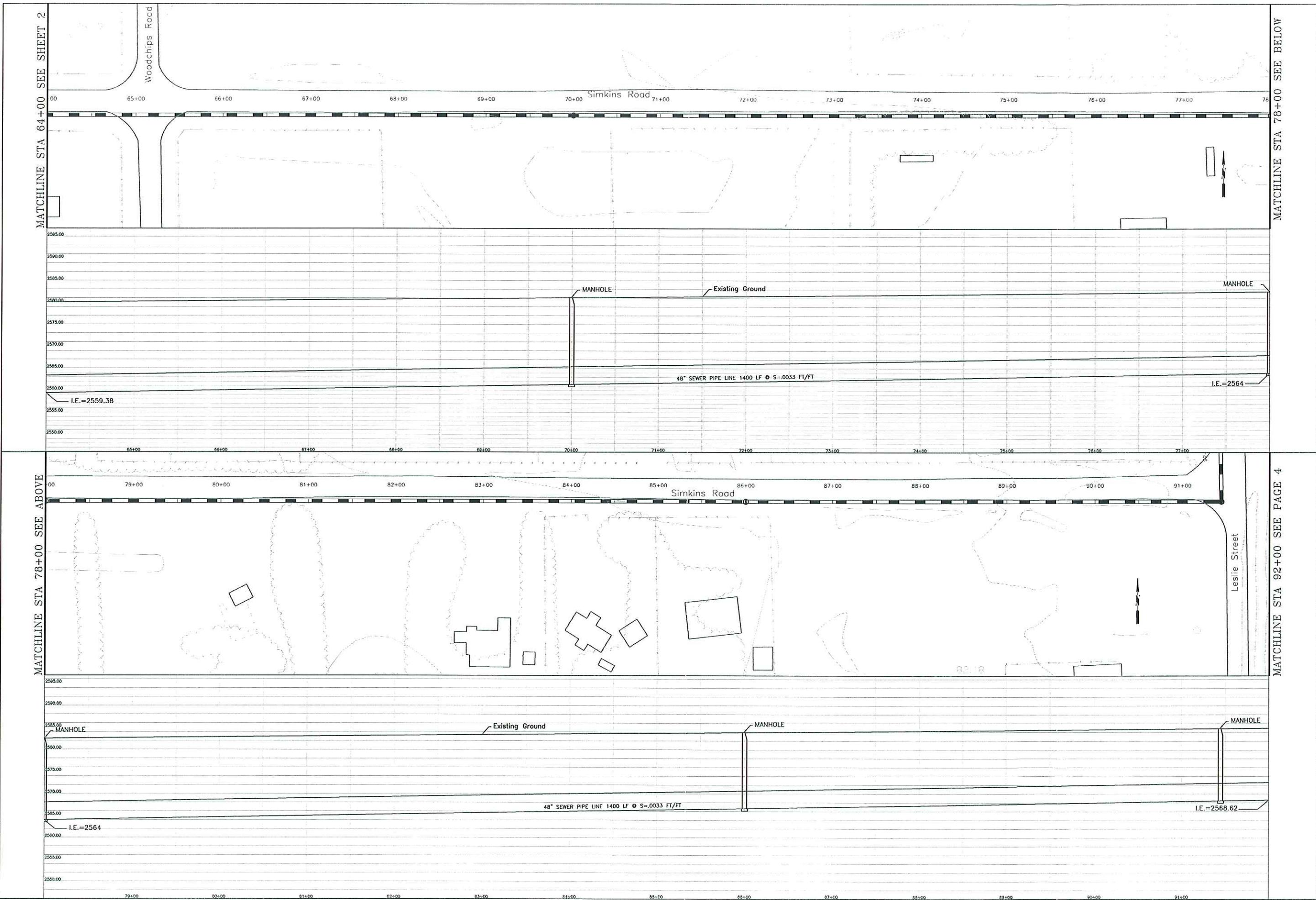
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 SUITE 420
 SCOTTSDALE, AZ 85251
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 FAX (480) 346-3201

THE PAVING DATE BEFORE YOU DRIVE
 CALL FOR THE BLUE STICKERS

J263-1100

FILE NAME: REVISION DATE: PLOTTING DATE: AUTOCAD VER:

SHT. 3 OF 9



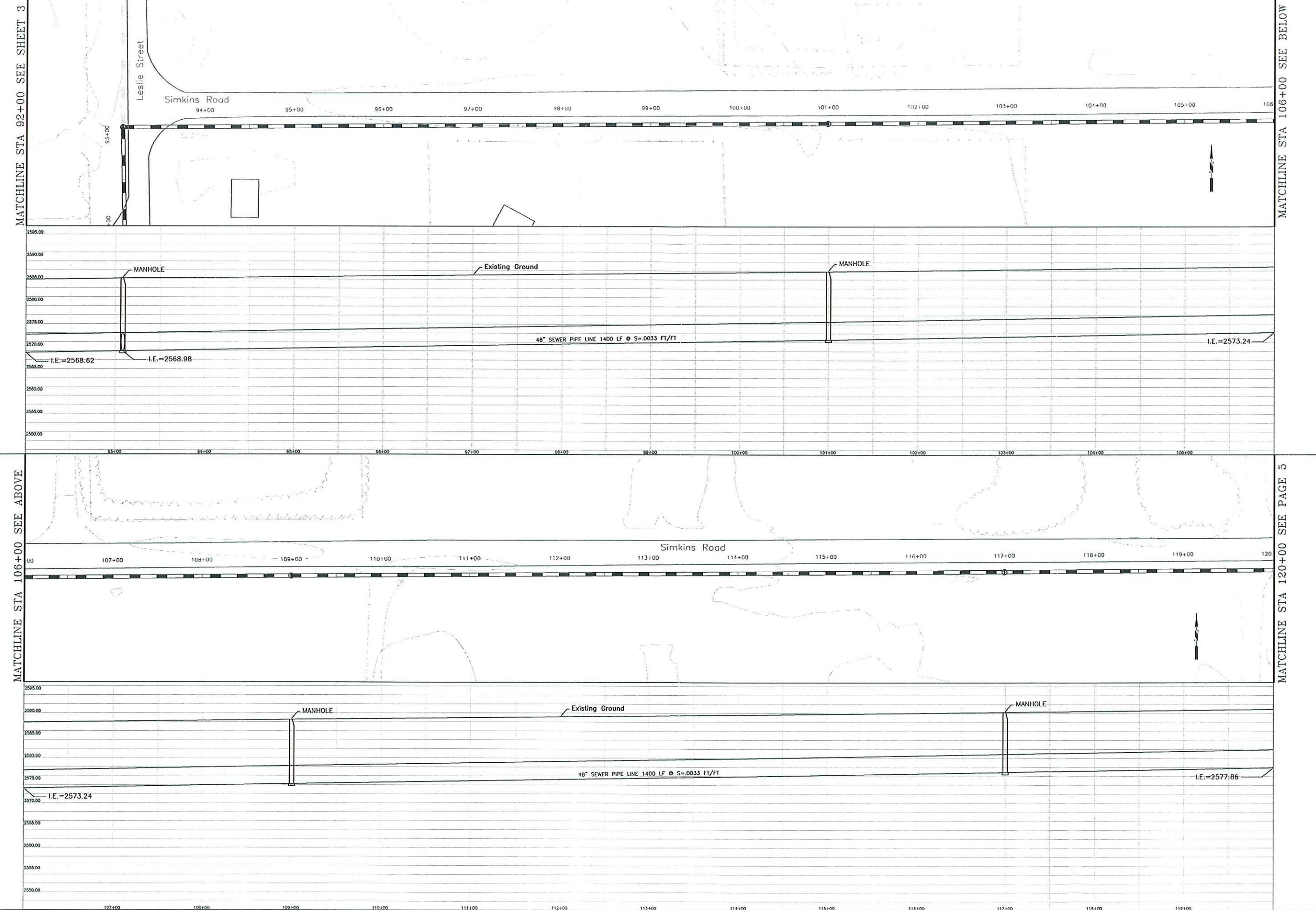
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CONSTRUCTION**

**Site 4
TRUNKLINE SEWER
TO REGIONAL WWTP**

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ENGINEERING**
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SUITE 420
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FAX (480) 346-3201

THIS PUBLISH DATE BEFORE YOU USE
CALL FOR THE BLUE STAMPS
263-1100
BLUE STAMPS CENTER
CALL COLLECT

FILE NAME: _____
REVISION DATE: _____
PLOTTING DATE: _____
AUTOCAD VER: _____
SHT. 4a
OF 9



NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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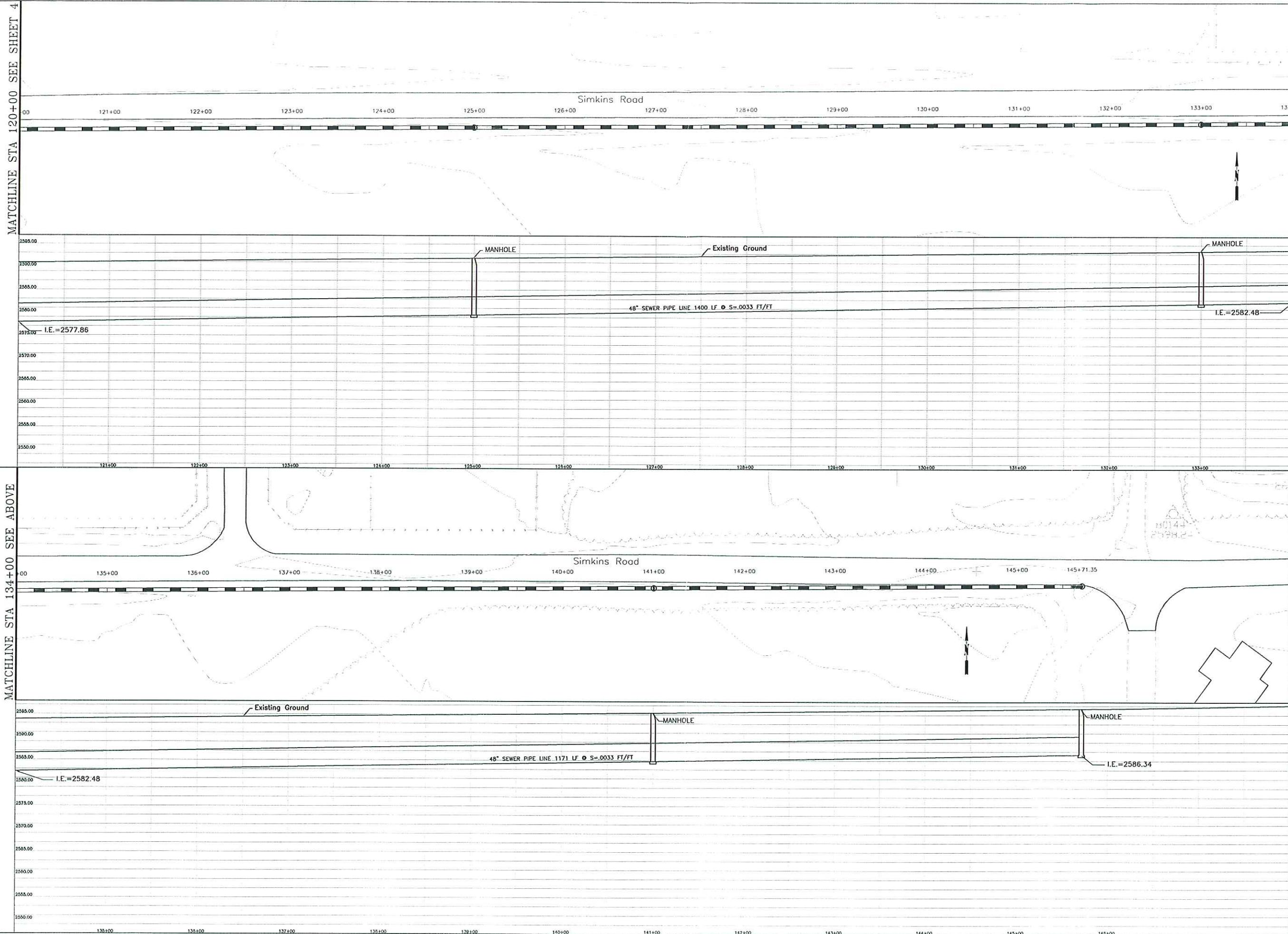
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Site 4
TRUNKLINE SEWER
TO REGIONAL WWTP

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SCOTTSDALE, AZ 85251
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FAX (480) 346-3201

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REVISION DATE:
PLOTTING DATE:
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SHT. 5a
OF 9



NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

Pahrump
Regional Planning
District
Publicities

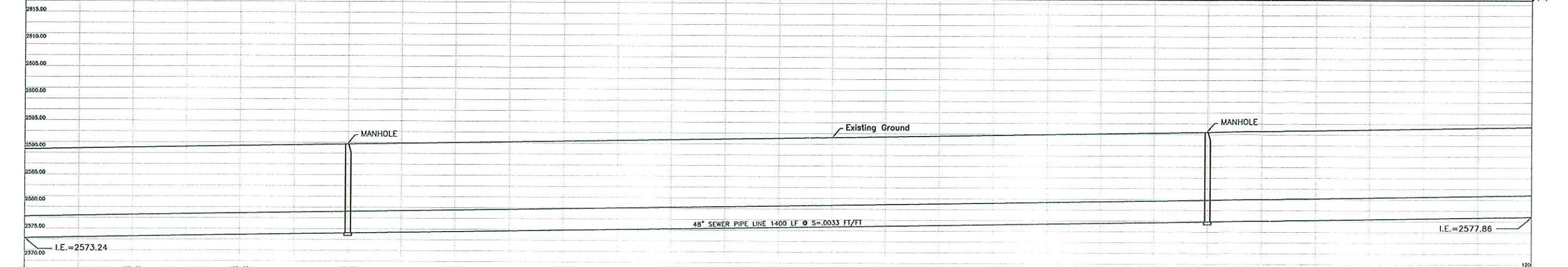
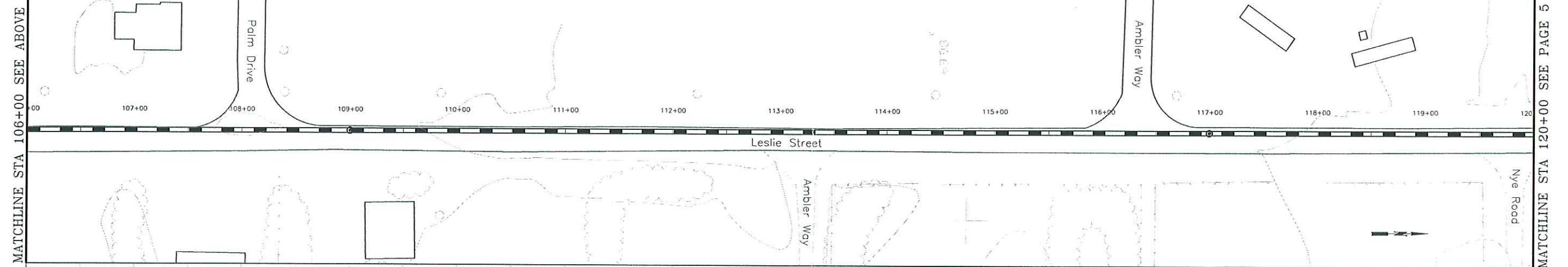
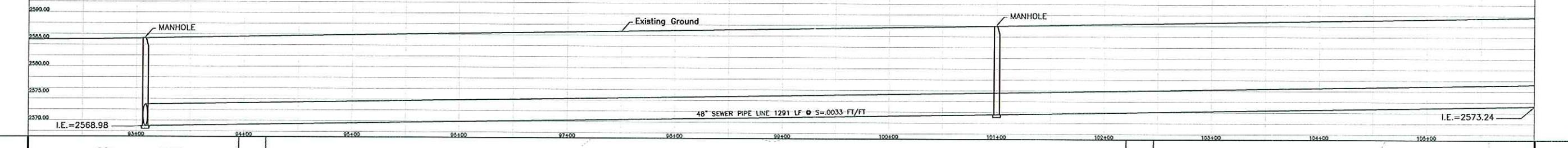
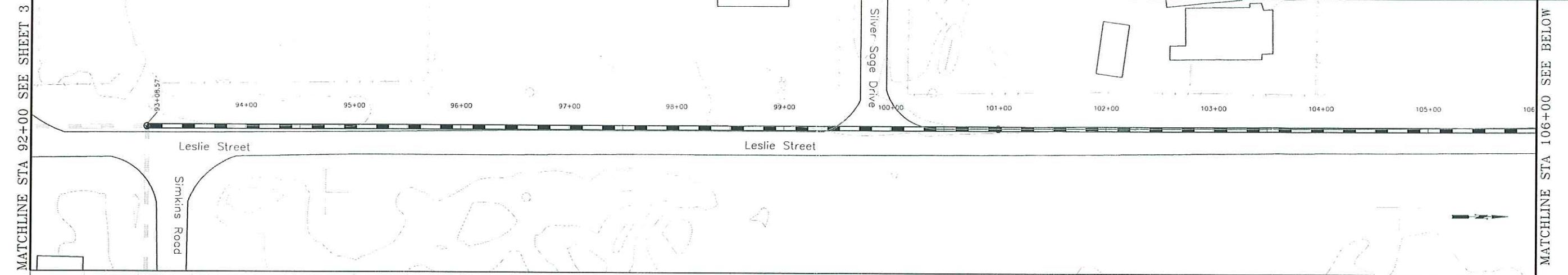
Site 4
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE
ENGINEERING
 7272 E. INDIAN SCHOOL RD
 SUITE 420
 SCOTTSDALE, AZ 85251
 PHONE (480) 346-3200
 FAX (480) 346-3201

263-1100
 STATE CENTER
 CALL COLLECT

FILE NAME:
 REVISION DATE:
 PLOTTING DATE:
 AUTOCAD VER:

SHT. 4b
 OF 9

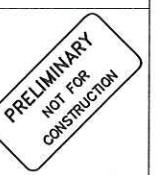


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DL

DJ

BP



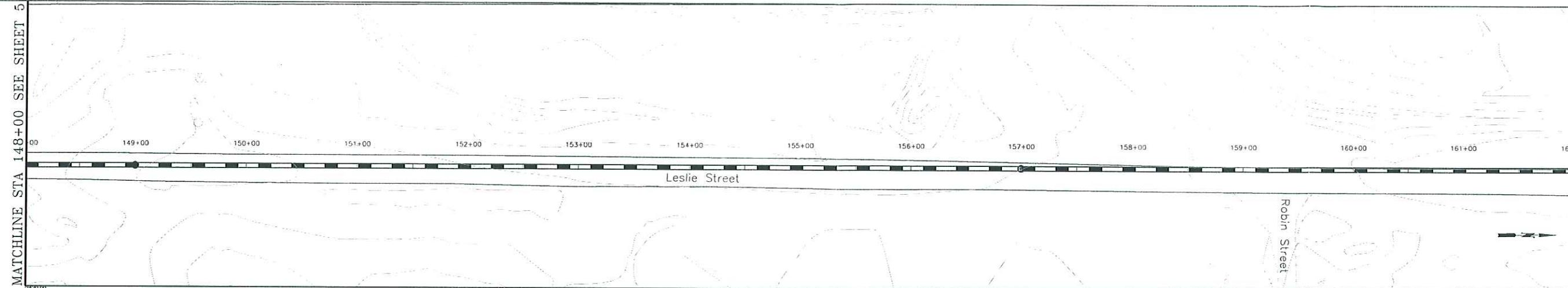
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|-------------|-------------|
| Drawn By: | BP |
| Checked By: | DL |
| No. | DESCRIPTION |
| REVISIONS | |

Site 4
TRUNKLINE SEWER
TO REGIONAL WWTP

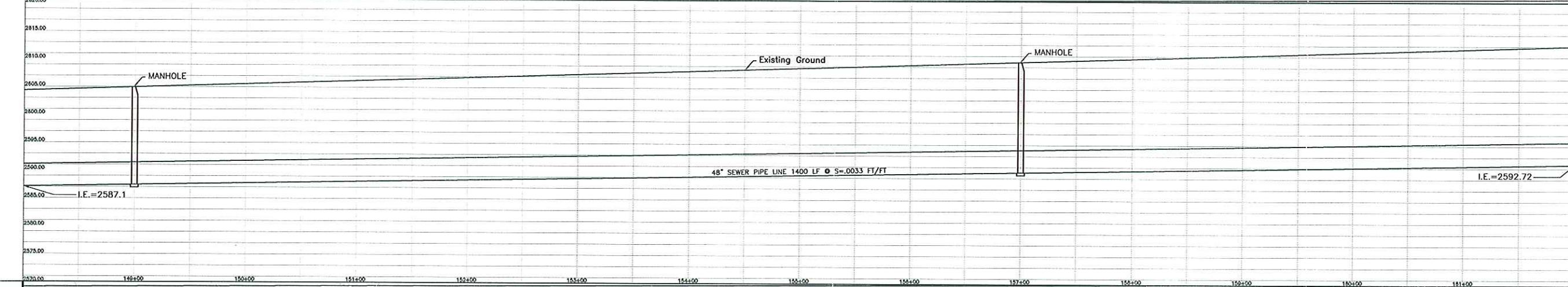
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SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

263-1100
TWO PIPING DAY BEFORE THE DATE
CALL FOR THE SILVER STATES
BLUE STATES CENTER
CALL COLLECT

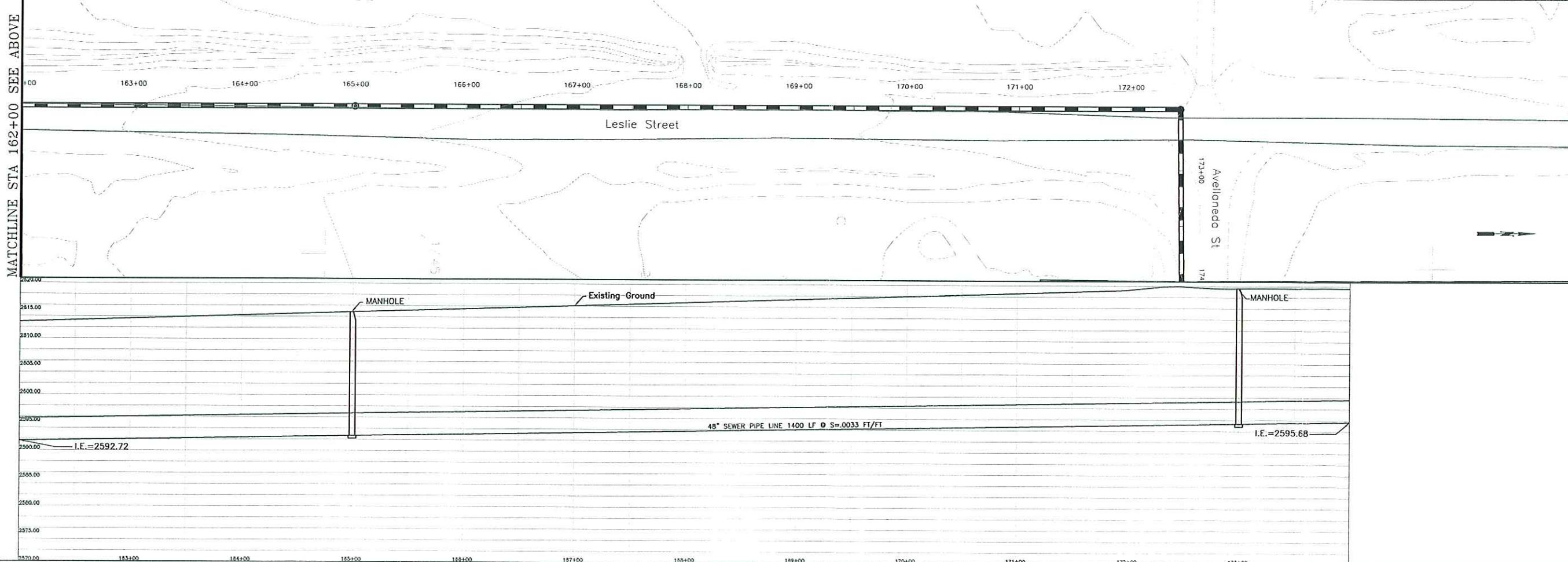
SHT. 6b
OF 9

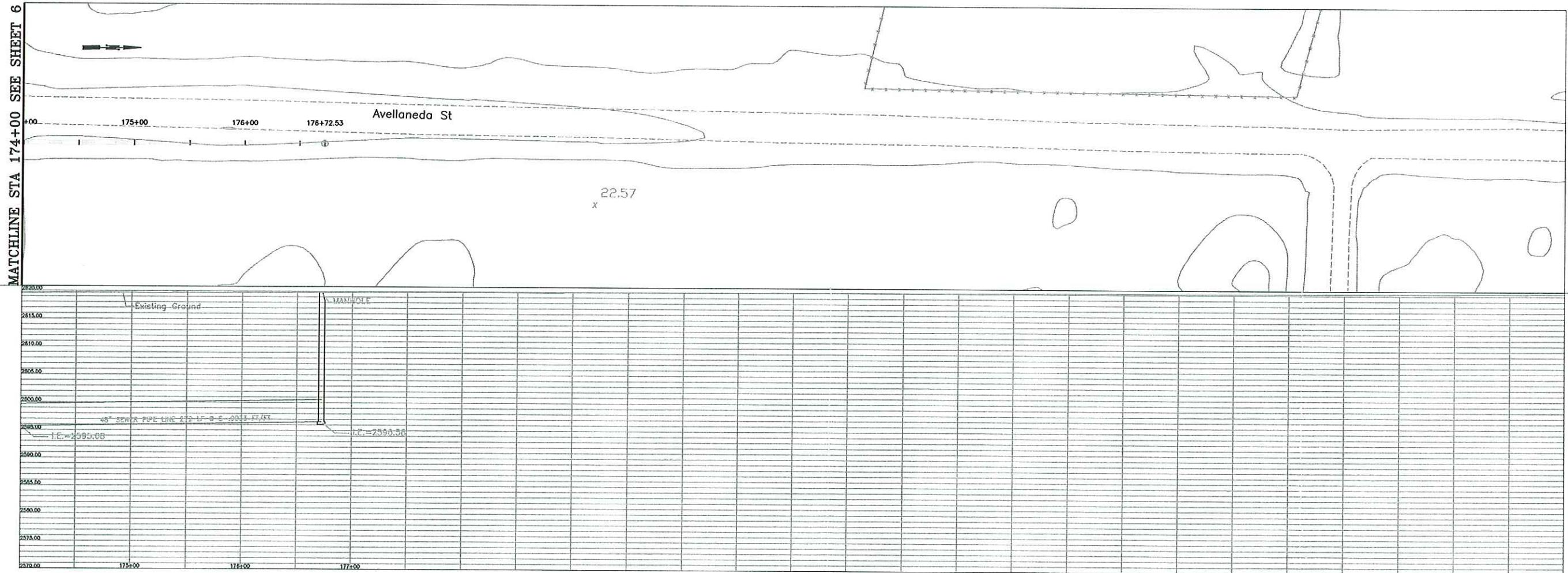


MATCHLINE STA 162+00 SEE BELOW



MATCHLINE STA 174+00 SEE PAGE 7





Site 4
TRUNKLINE SEWER
TO REGIONAL WWTP

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ENGINEERING
7272 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
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FAX (480) 346-3200

J263-1100
FILE NAME _____
REVISION DATE _____
PLOTTING DATE _____
AUTOCAD VER _____
SHT. 7b
OF 9

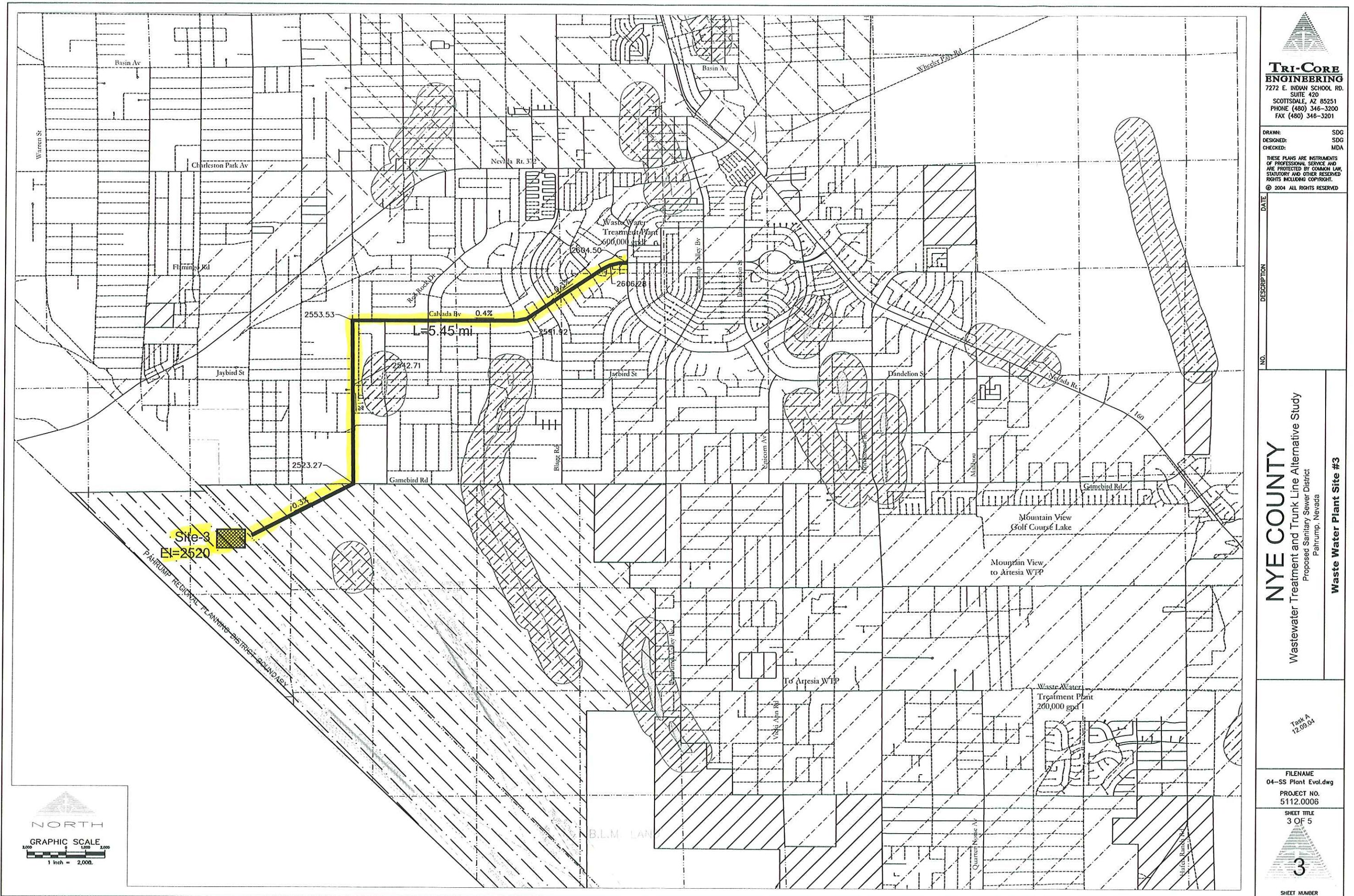


Table 2 - OPC for Calvada Blvd

| DESCRIPTION | QUANTITY | UNIT | UNIT COST | TOTAL COST |
|---|----------|------|---|-----------------------|
| Remove and replace aggregate service road | 4705.69 | SY | \$2.40 | \$11,293.66 |
| Remove and replace asphalt pavement | 11449.51 | SY | \$3.60 | \$41,218.24 |
| 48" Sanitary sewer line | 29220.38 | LF | \$240.00 | \$7,012,891.20 |
| Sewer manhole 10 to 15 ft | 8 | EA | \$6,500.00 | \$52,000.00 |
| Sewer manhole 15 to 20 ft | 11 | EA | \$7,000.00 | \$77,000.00 |
| Sewer manhole over 20 ft | 21 | EA | \$7,500.00 | \$157,500.00 |
| Right of way acquisition | 29220.38 | SF | \$1.15 | \$33,603.44 |
| | | | | ----- |
| | | | <i>Subtotal</i> | \$7,385,506.50 |
| | | | | |
| | | | <i>Dust, Erosion and Quality Control (5%)</i> | \$369,275.30 |
| | | | <i>Construction Survey (2%)</i> | \$147,710.10 |
| | | | <i>Contingencies (15%)</i> | \$1,107,826.00 |
| | | | <i>Construction Subtotal</i> | \$9,010,317.90 |
| | | | | |
| | | | <i>Administration and Legal (5%)</i> | \$450,515.90 |
| | | | <i>Engineering Design (10%)</i> | \$901,031.80 |
| | | | <i>Construction Management (8%)</i> | \$720,825.40 |
| | | | | |

Total Cost = \$11,082,691.00

Notes:

For acquisition of easements on private land a cost of \$50,000 per acre is assumed.

Unit prices based on construction costs for similar work on drainage projects in Arizona & Nevada.

Wastewater Treatment & Truckline Alternative Study
Calvada Blvd Trunkline Sewer to Regional WWTP
Nye County, Nevada
4/15/2005

| DESCRIPTION | UNIT | SHEET \$1 | SHEET \$2 | SHEET \$3 | SHEET \$4 | SHEET \$5 | SHEET \$6 | SHEET \$7 | SHEET \$8 | SHEET \$9 | SHEET \$10 | SHEET \$11 | SHEET TOTAL | UNIT |
|---|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-------------|------|
| Remove and replace aggregate service road | SY | | | | 1516.71 | 2177.84 | 101.14 | | | | | | 4705.69 | SY |
| Remove and replace asphalt pavement | SY | | | | 933.36 | 2177.84 | 2177.84 | | | | | | 11449.5 | SY |
| 48" Sanitary sewer line | LF | 2700 | 2800 | 2100 | 2800 | 2500 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2320.38 | LF |
| Sewer manhole 10 to 15 ft | EA | | | | | | | 2 | 4 | 2 | | | 8 | EA |
| Sewer manhole 15 to 20 ft | EA | | | | | 1 | 1 | 4 | | 1 | 3 | | 11 | EA |
| Sewer manhole over 20 ft | EA | 3 | 3 | 4 | | 2 | 4 | | | | 1 | 4 | 21 | EA |
| Right of way acquisition | SF | 2700 | 2800 | 2100 | 2800 | 2800 | 2500 | 2800 | 2800 | 2800 | 2800 | 2800 | 2320.38 | SF |

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

PRELIMINARY
NOT FOR
CONSTRUCTION

| | |
|-------------|-------------|
| DESIGN BY: | BP |
| DRAWN BY: | BP |
| CHECKED BY: | DL |
| NO. DATE | DESCRIPTION |
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MATCHLINE STA 36+00 SEE PAGE 2

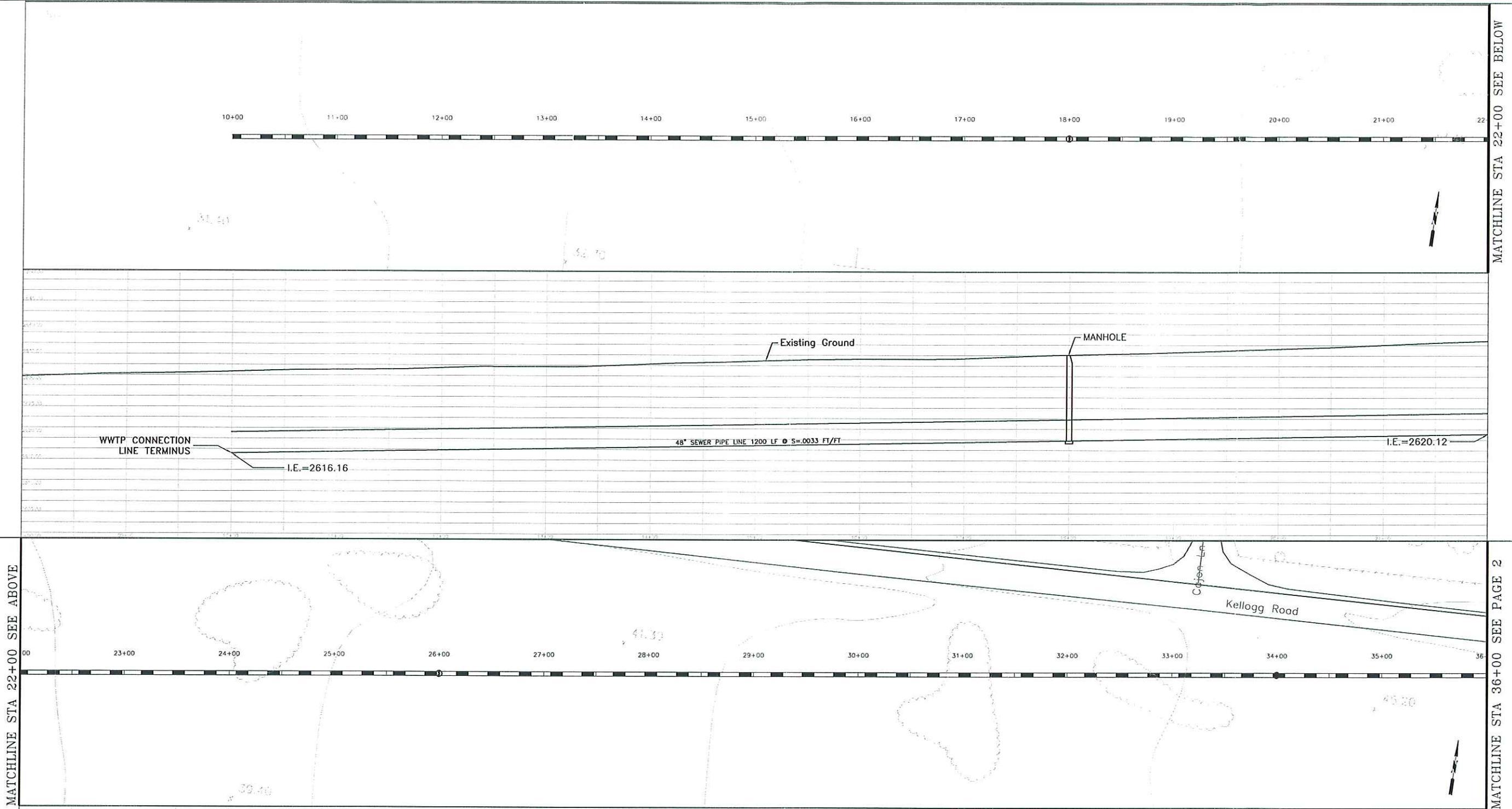
Site 1
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE
ENGINEERING
7272 E. INDIAN SCHOOL RD
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

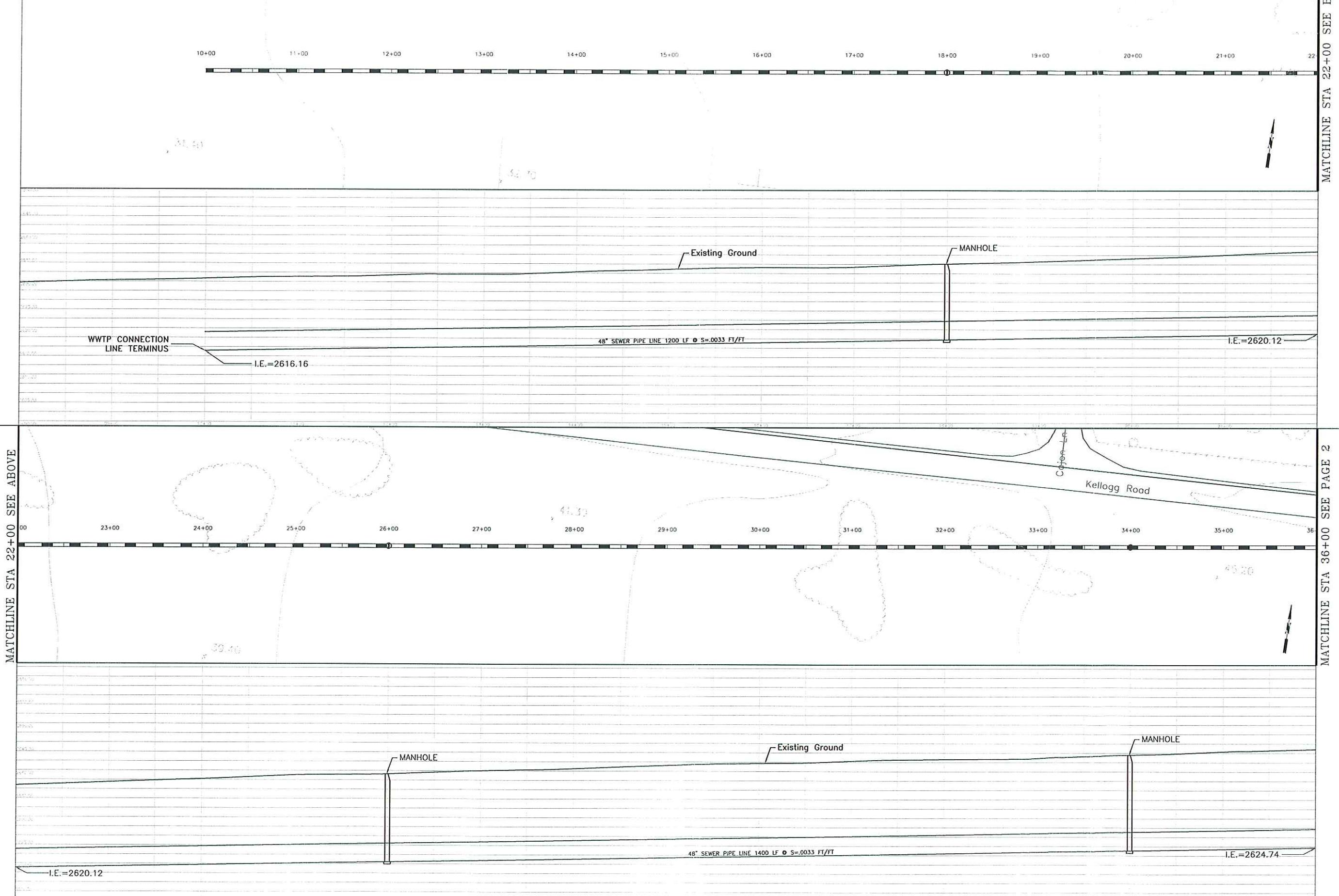


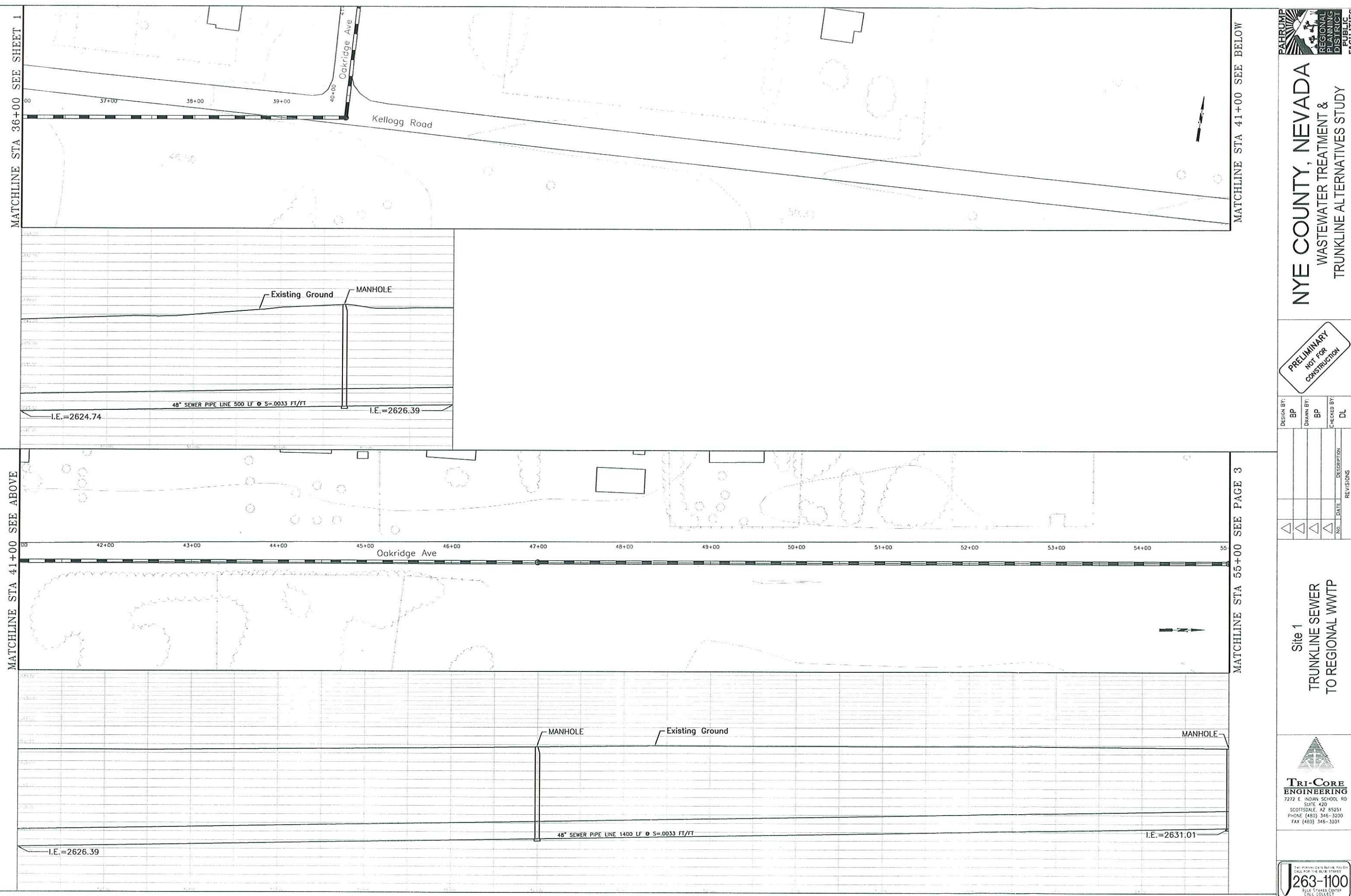
SHT. 1
OF 8

MATCHLINE STA 22+00 SEE ABOVE



MATCHLINE STA 22+00 SEE BELOW





PAHRUMP
REGIONAL PLANNING DISTRICT
PUBLIC FACILITIES

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY



NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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CONSTRUCTION

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REVISIONS

Site 1
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE
ENGINEERING

7272 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

263-1100
U.S. POSTAGE PAID
CALL FOR THE BLUE STARS
U.S. POSTAGE PAID

SHT. 4
OF 8

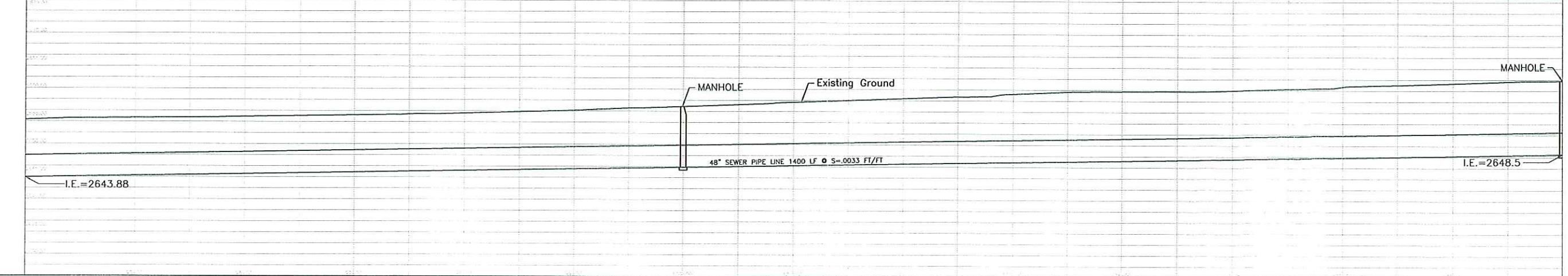
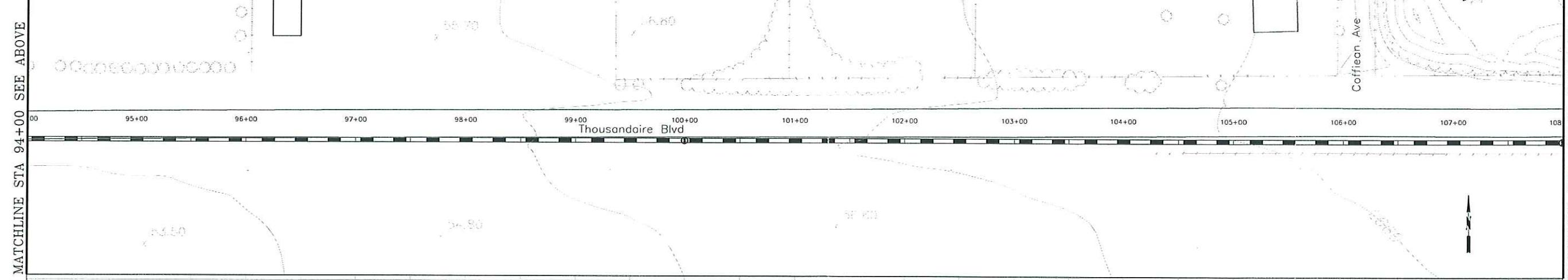
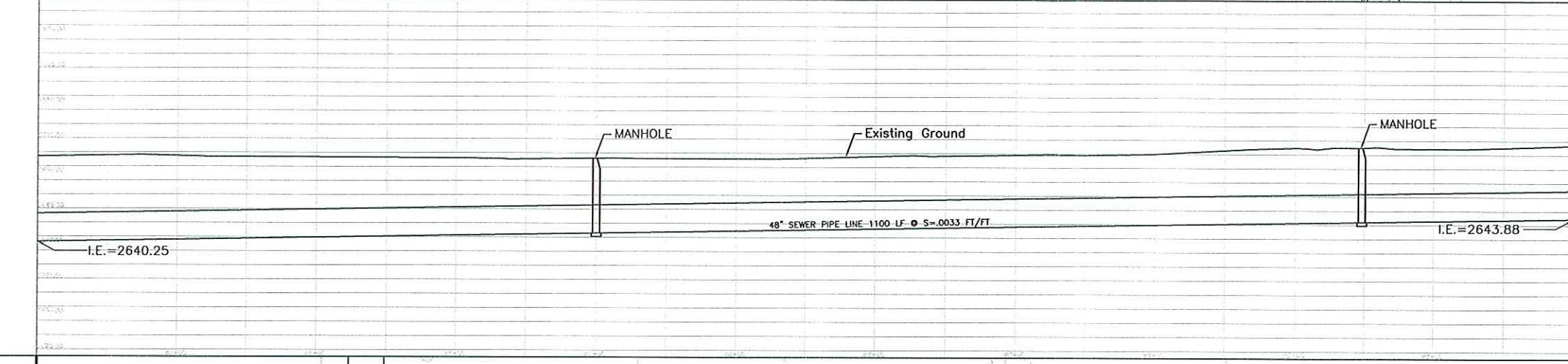
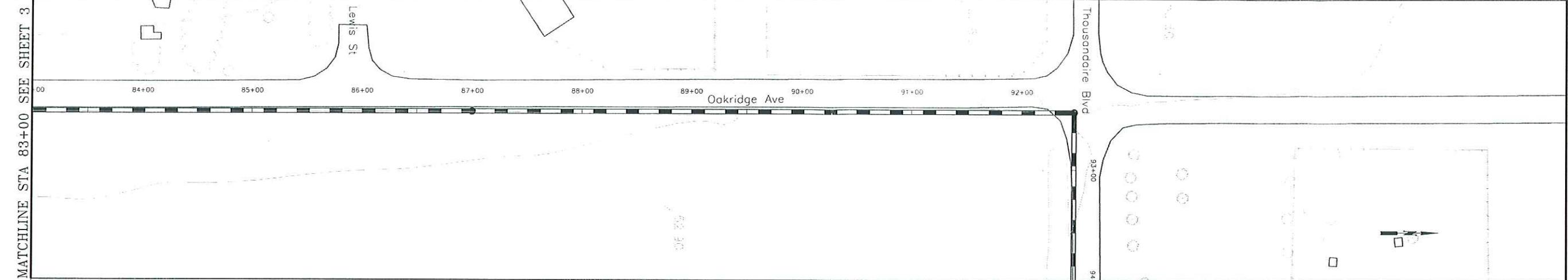
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REVISION DATE: _____
PLOTTING DATE: _____
AUTOCAD VER: _____

MATCHLINE STA 94+00 SEE BELOW

MATCHLINE STA 108+00 SEE PAGE 5

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NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY



NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

**PRELIMINARY
NOT FOR
CONSTRUCTION**

DL

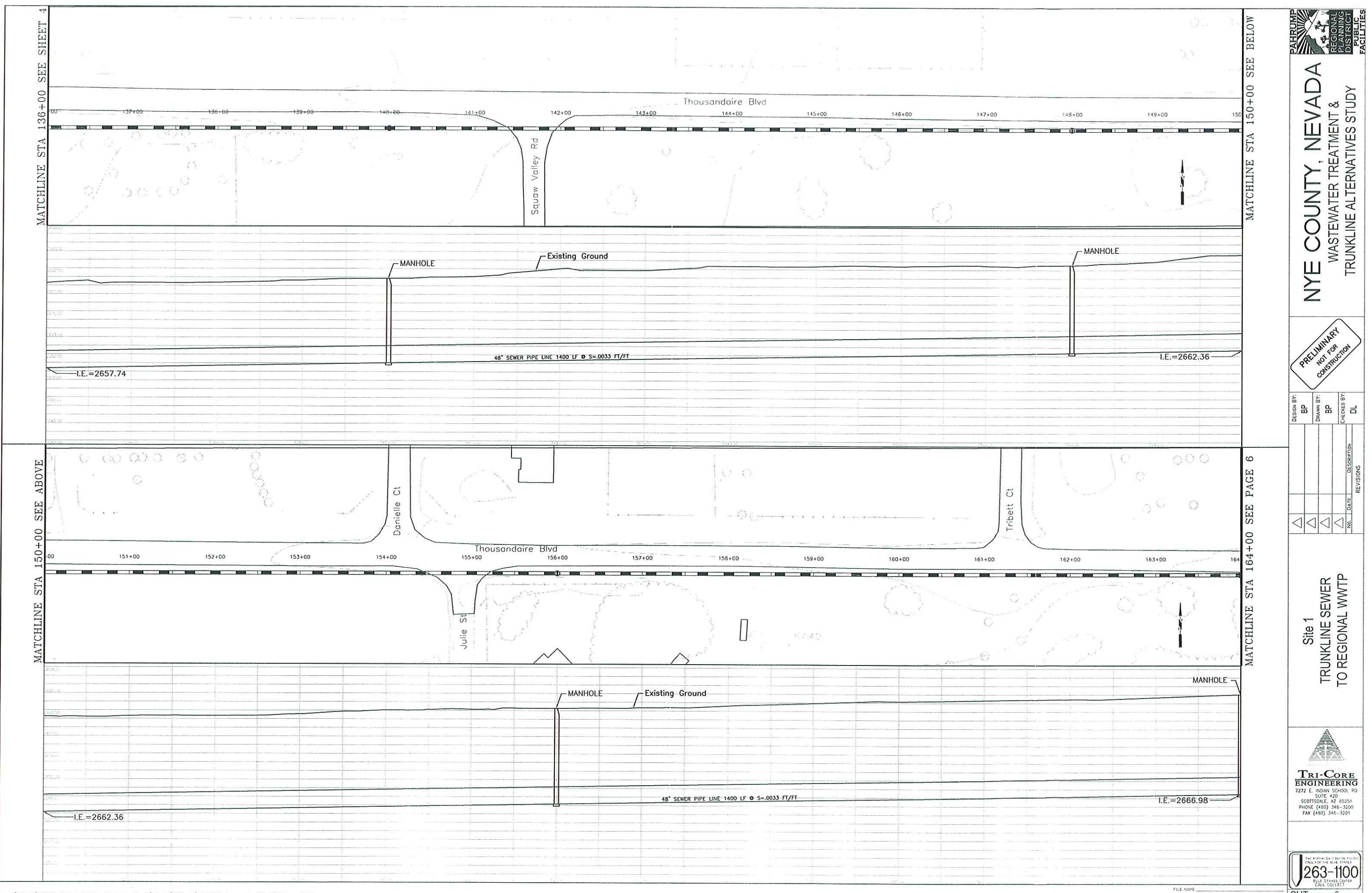
BP

BP

BP

DL

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NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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CONSTRUCTION

DESIGN BY:
BP

DRAWN BY:
BP

CHECKED BY:
DL

REVISIONS

NO. DATE DESCRIPTION

FILE NAME

REVISION DATE

PLOTTING DATE

AUTOCAD VER

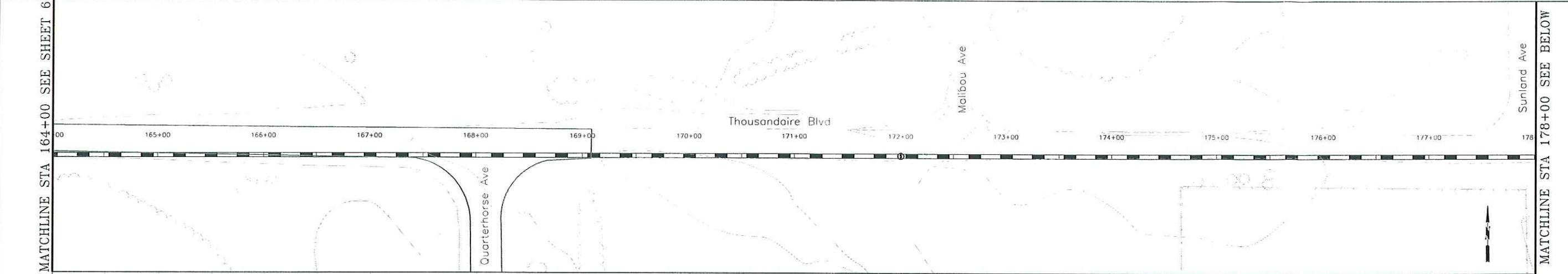
Site 1
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE
ENGINEERING
7272 E. MOUNTAIN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 345-3200
FAX (480) 346-3201

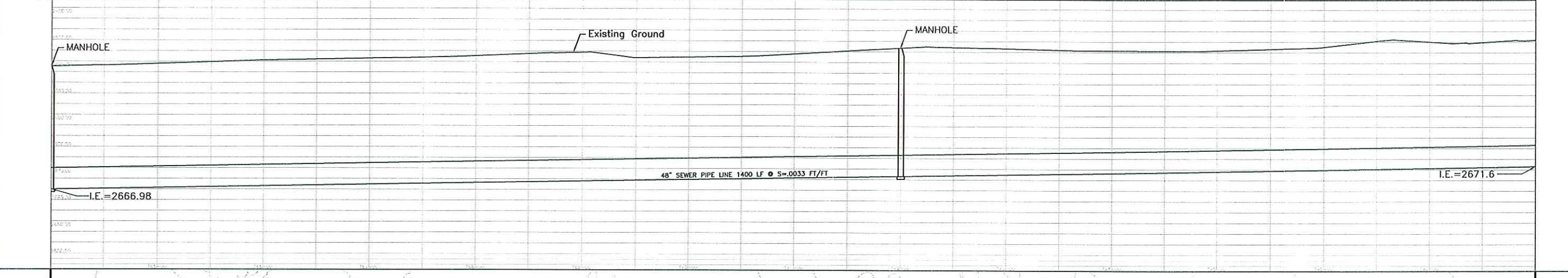
J263-1100
THE POKHARA DATES BEFORE YOU DIG
CALL FOR THE BLUE STAKES
ONE STOP CENTER
CALL COLLECT

MATCHLINE STA 164+00 SEE SHEET 6

MATCHLINE STA 178+00 SEE ABOVE

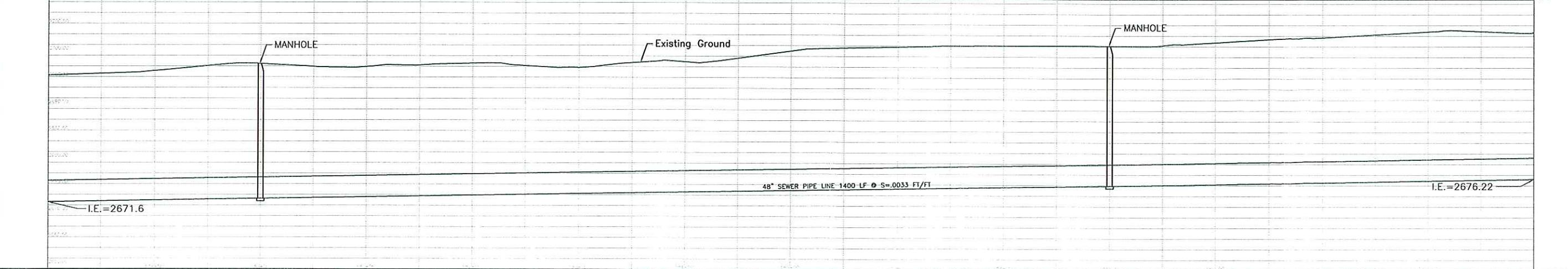


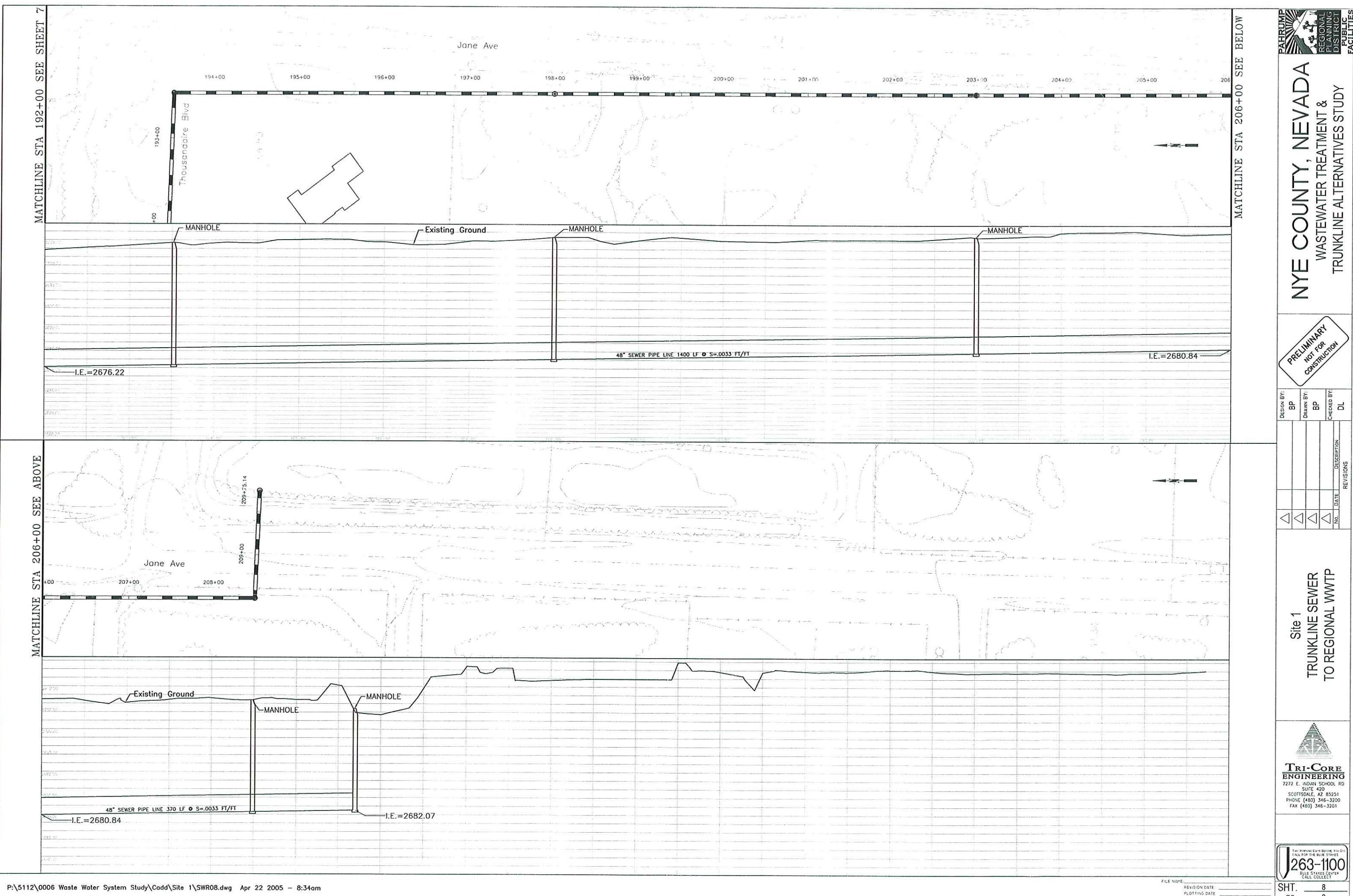
MATCHLINE STA 178+00 SEE BELOW



MATCHLINE STA 192+00 SEE PAGE 8

MATCHLINE STA 178+00 SEE ABOVE





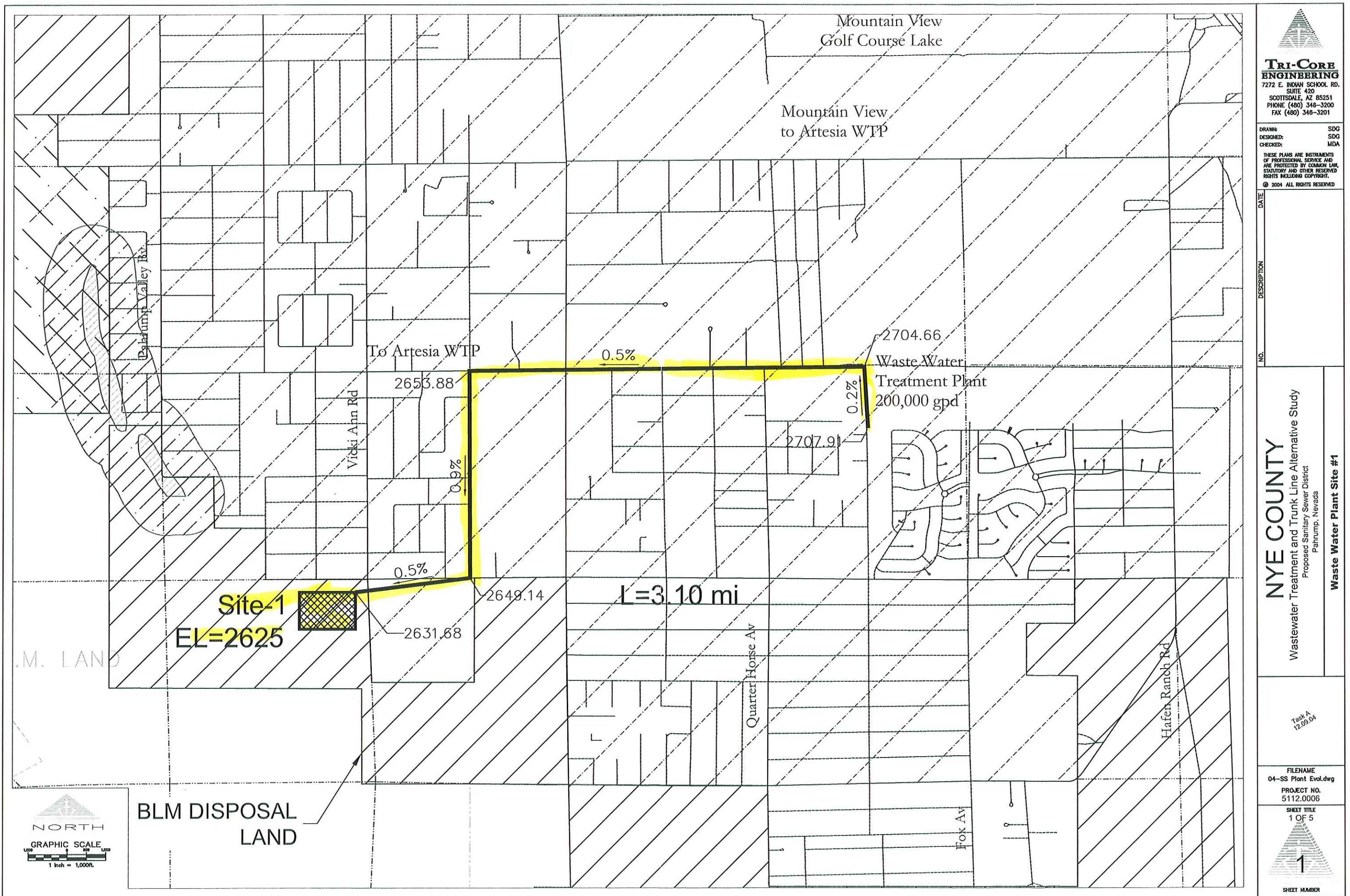


Table 3 - OPC for Site 1

| DESCRIPTION | QUANTITY | UNIT | UNIT COST | TOTAL COST |
|---|----------|------|---|-----------------------|
| Remove and replace aggregate service road | 5639.05 | SY | \$2.40 | \$13,533.72 |
| Remove and replace asphalt pavement | 5872.39 | SY | \$3.60 | \$21,140.60 |
| 48" Sanitary sewer line | 19975.14 | LF | \$240.00 | \$4,794,033.60 |
| Sewer manhole 10 to 15 ft | 7 | EA | \$6,500.00 | \$45,500.00 |
| Sewer manhole 15 to 20 ft | 7 | EA | \$7,000.00 | \$49,000.00 |
| Sewer manhole over 20 ft | 14 | EA | \$7,500.00 | \$105,000.00 |
| Right of way acquisition | 19975.14 | SF | \$1.15 | \$22,971.41 |
| | | | | ----- |
| | | | Subtotal | \$5,051,179.30 |
| | | | | |
| | | | <i>Dust, Erosion and Quality Control (5%)</i> | <i>\$252,559.00</i> |
| | | | <i>Construction Survey (2%)</i> | <i>\$101,023.60</i> |
| | | | <i>Contingencies (15%)</i> | <i>\$757,676.90</i> |
| | | | | |
| | | | Construction Subtotal | \$6,162,438.80 |
| | | | | |
| | | | <i>Administration and Legal (5%)</i> | <i>\$308,121.90</i> |
| | | | <i>Engineering Design (10%)</i> | <i>\$616,243.90</i> |
| | | | <i>Construction Management (8%)</i> | <i>\$492,995.10</i> |
| | | | | |

Total Cost = \$7,579,799.70

Notes:

For acquisition of easements on private land a cost of \$50,000 per acre is assumed.

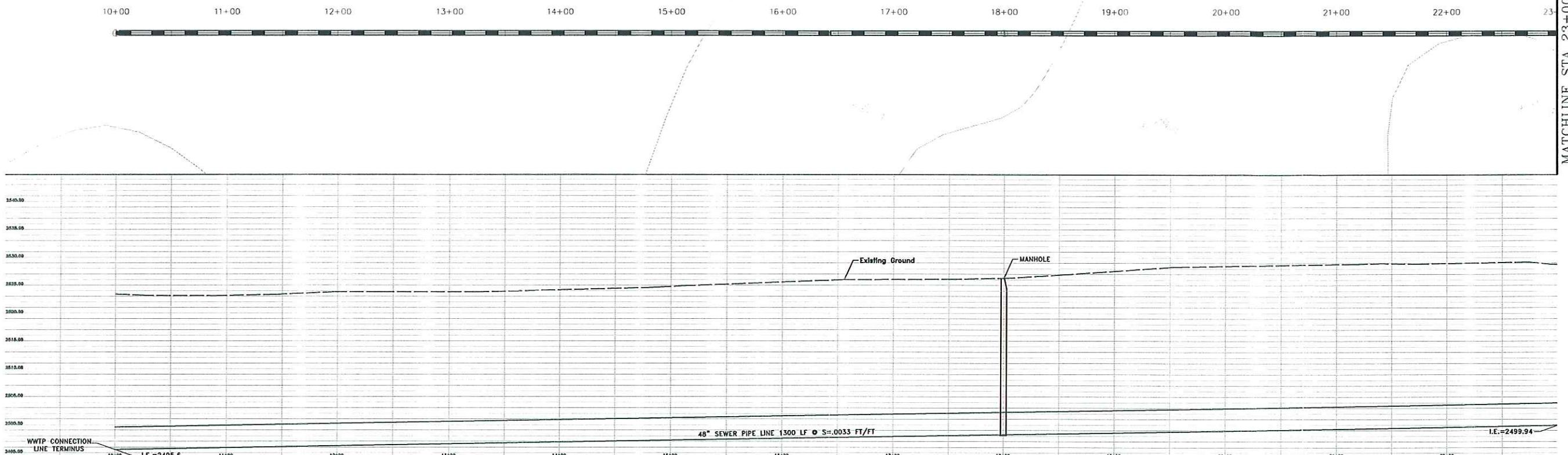
Unit prices based on construction costs for similar work on drainage projects in Arizona & Nevada.

Wastewater Treatment & Truckline Alternative Study
Site 1 Trunkline Sewer to Regional WWTP
Nye County, Nevada
4/15/2005

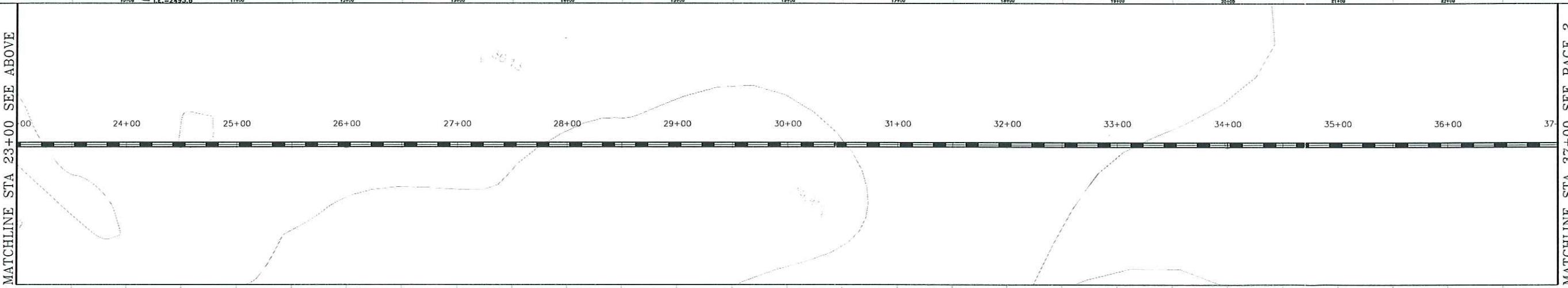
| DESCRIPTION | UNIT | SHEET | | SHEET | | SHEET | | SHEET | | SHEET | | TOTAL | UNIT |
|---|------|---------|---------|---------|---------|---------|--------|---------|------|---------|-------|--------|------|
| | | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S7 | S8 | | |
| Remove and replace aggregate service road | SY | 1244.48 | 2177.84 | 738.91 | | | | 1477.82 | | | | 5639.1 | SY |
| Remove and replace asphalt pavement | SY | | | 1205.59 | 2177.84 | 2177.84 | 311.12 | | | | | 5872.4 | SY |
| 48" Sanitary sewer line | LF | 2600 | 1900 | 2800 | 2500 | 2800 | 2800 | 2800 | 2800 | 1775.14 | 19975 | | LF |
| Sewer manhole 10 to 15 ft | EA | | | 2 | 4 | 1 | | | | | | 7 | EA |
| Sewer manhole 15 to 20 ft | EA | 2 | | 2 | | 2 | 1 | | | | | 7 | EA |
| Sewer manhole over 20 ft | EA | 1 | 2 | | | | 3 | 3 | 5 | 5 | 14 | | EA |
| Right of way acquisition | SF | 2600 | 1900 | 2800 | 2500 | 2800 | 2800 | 2800 | 2800 | 1775.14 | 19975 | | SF |

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

MATCHLINE STA 23+00 SEE BELOW



MATCHLINE STA 37+00 SEE PAGE 2

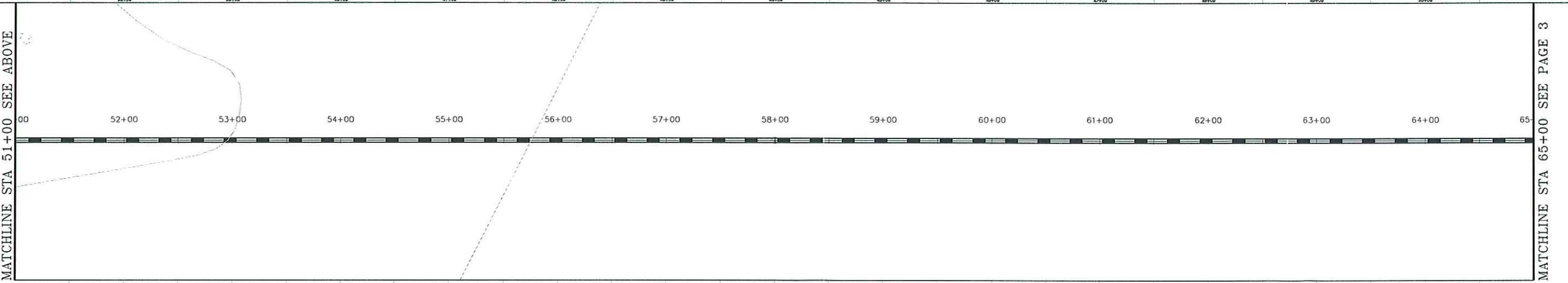
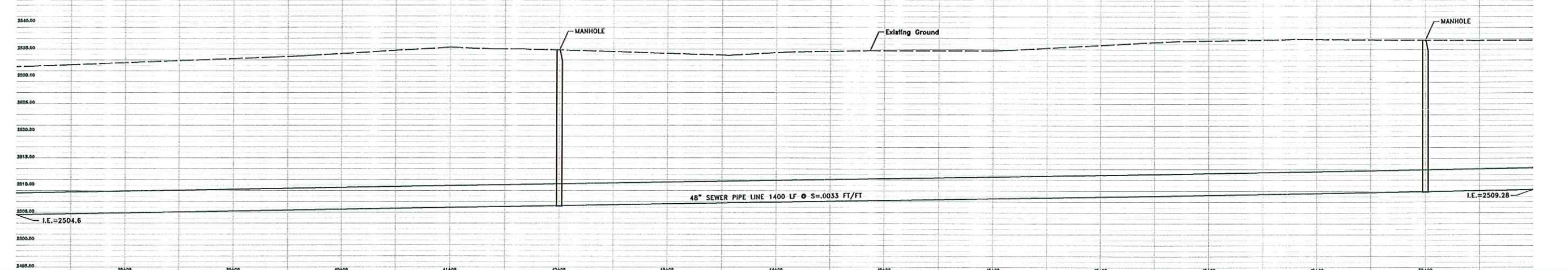
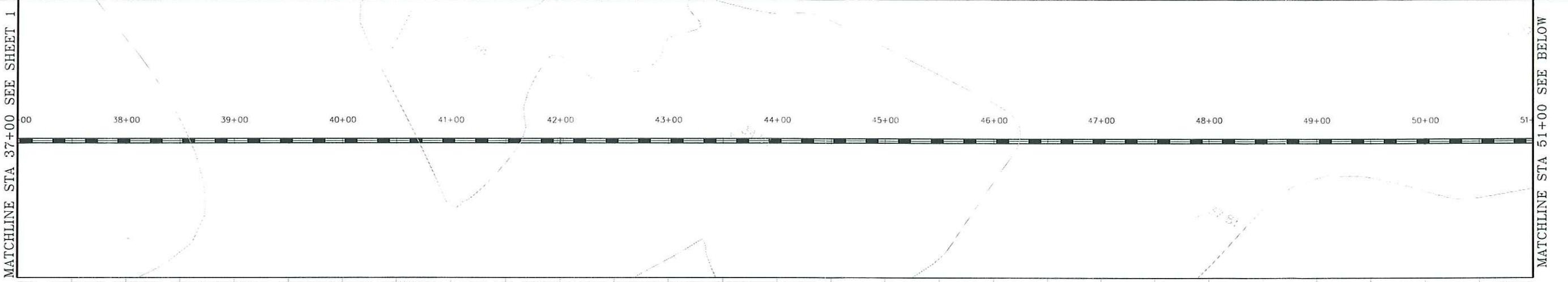


CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE ENGINEERING
7272 E. INDIAN SCHOOL RD
SUITE #20
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

J 263-1100
FILE NAME:
REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:
SHEET 1 OF 11

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY



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| Drawn By: | EP | |
| Checked By: | DL | |
| PRELIMINARY NOT FOR CONSTRUCTION | | |
| No. | Date | Description |
| REVISIONS | | |

CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE
ENGINEERING
7272 E INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201



NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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| checked by: DL | |
| NO. DATE DESCRIPTION | REVISIONS |

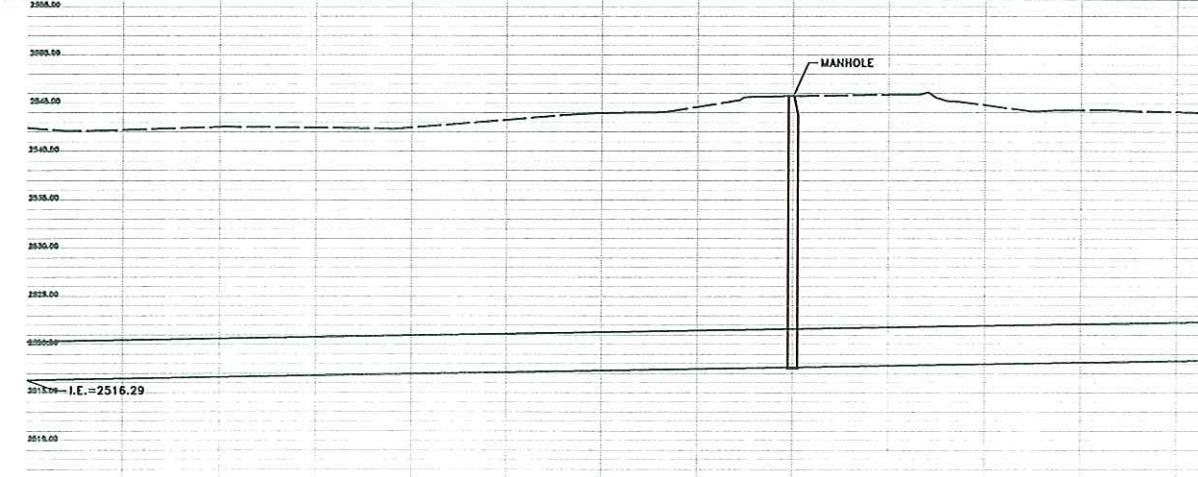
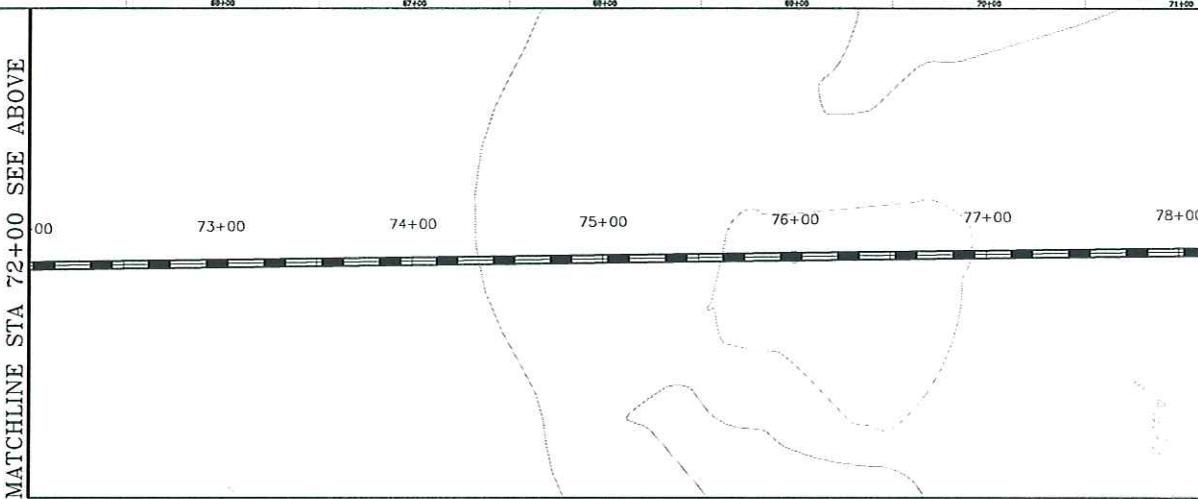
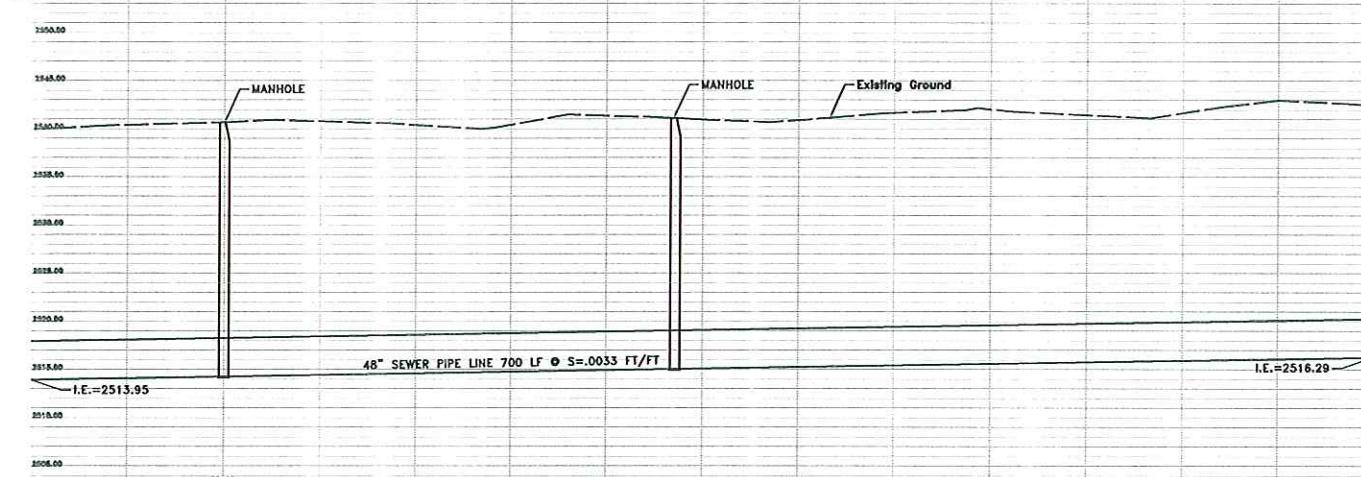
CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE
ENGINEERING
7272 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201



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PLOTTING DATE: _____
AUTOCAD VER: _____

SHT. 3
OF 11



MATCHLINE STA 86+00 SEE PAGE 4

FILE NAME: _____
REVISION DATE: _____
PLOTTING DATE: _____
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NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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| Checked By: | DL |

No. Date Description

Revisions

Calvada Blvd

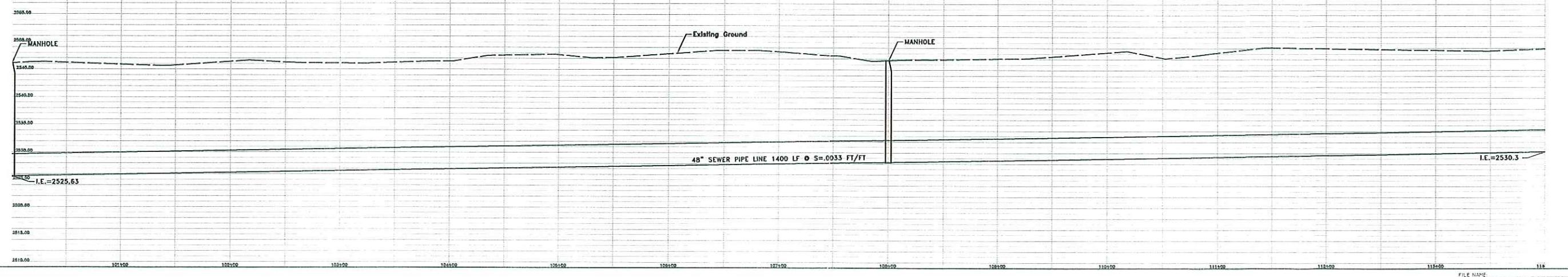
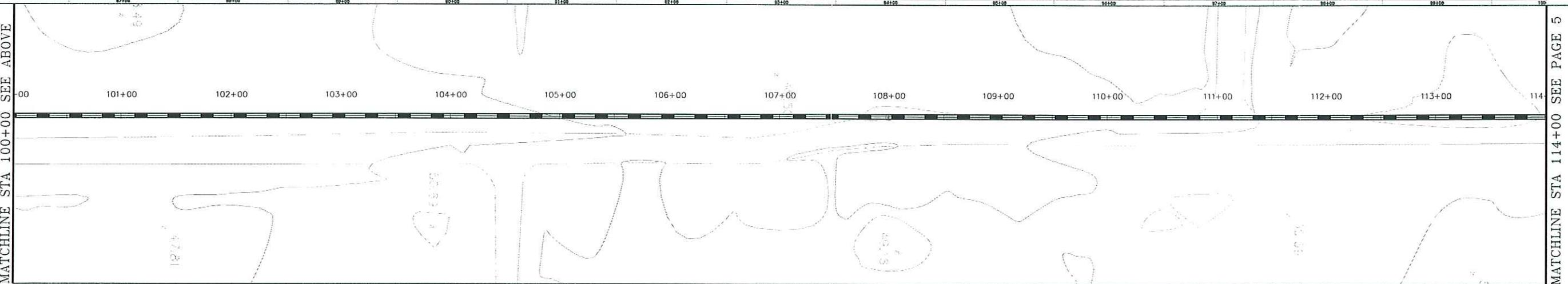
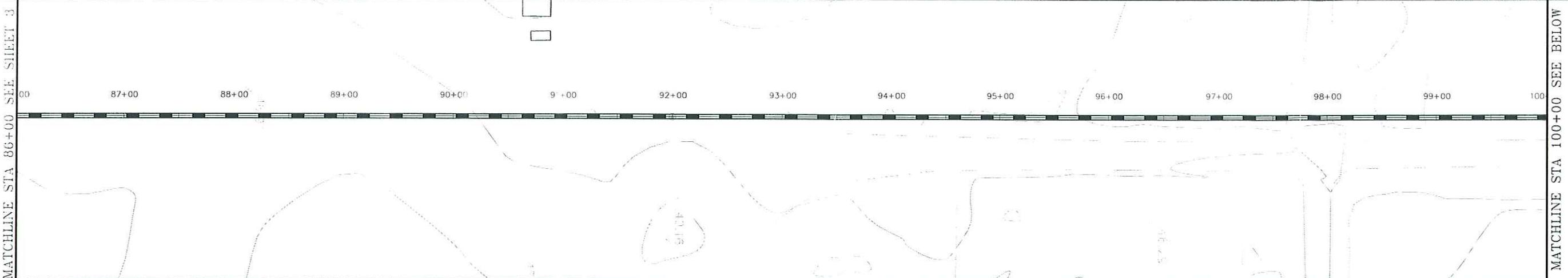
Trunkline Sewer
To Regional WWTP

**TRI-CORE
ENGINEERING**
7272 E INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201



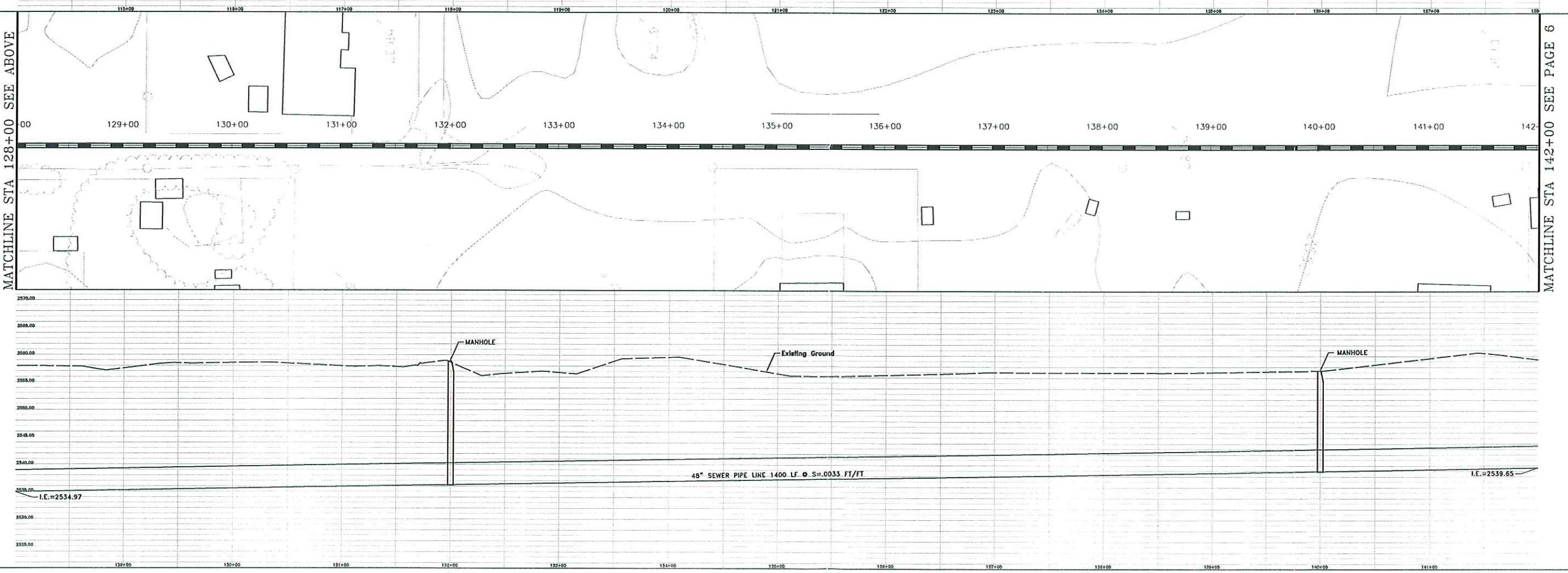
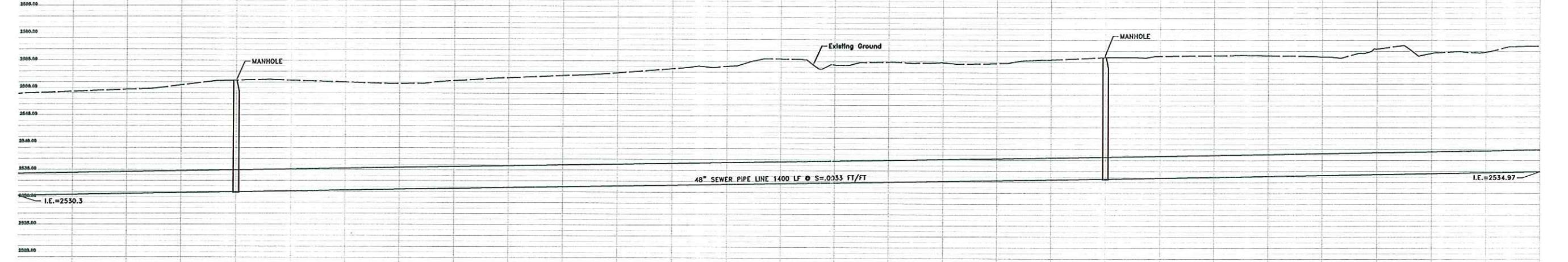
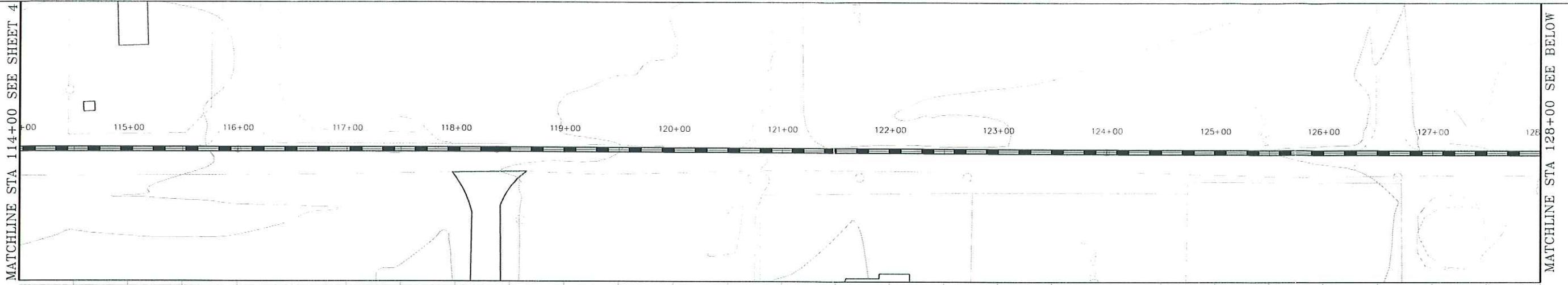
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AUTOCAD VER

SHT. 4
OF 11





NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY



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CONSTRUCTION

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| NO. | | | | | |
| DESCRIPTION | | | | | |

CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP

TRI-CORE
ENGINEERING
7272 E. SCHOOL RD.
SUITE 400
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 345-3201

TWO PAVING DAYS BEFORE YOU DRIVE
CALL FOR THE BLUE STRIPE
263-1100
PARKING PERMITTED
CALL COLLECT

FILE NAME _____
REVISION DATE _____
PLOTTING DATE _____
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SHT. **5**
OF **11**

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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CONSTRUCTION**

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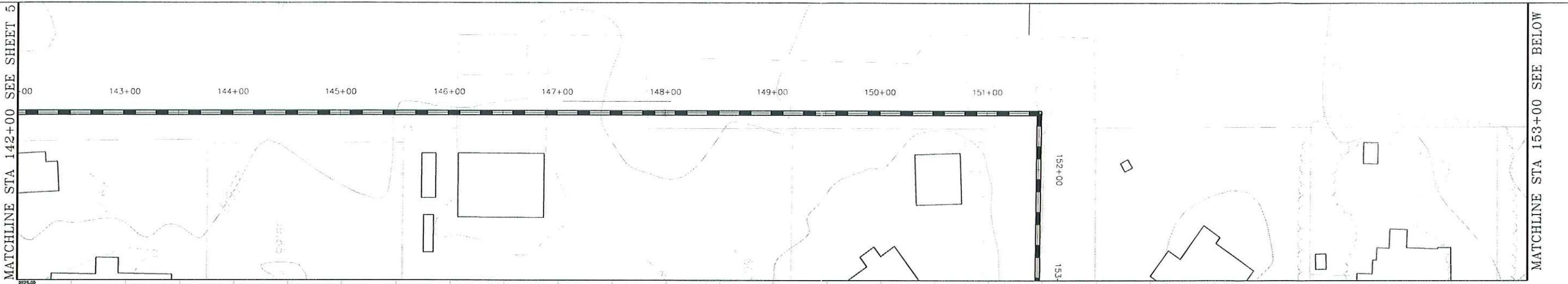
**CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP**



**TRI-CORE
ENGINEERING**
7272 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201



SHT. 6
OF 11



MATCHLINE STA 142+00 SEE SHEET 5

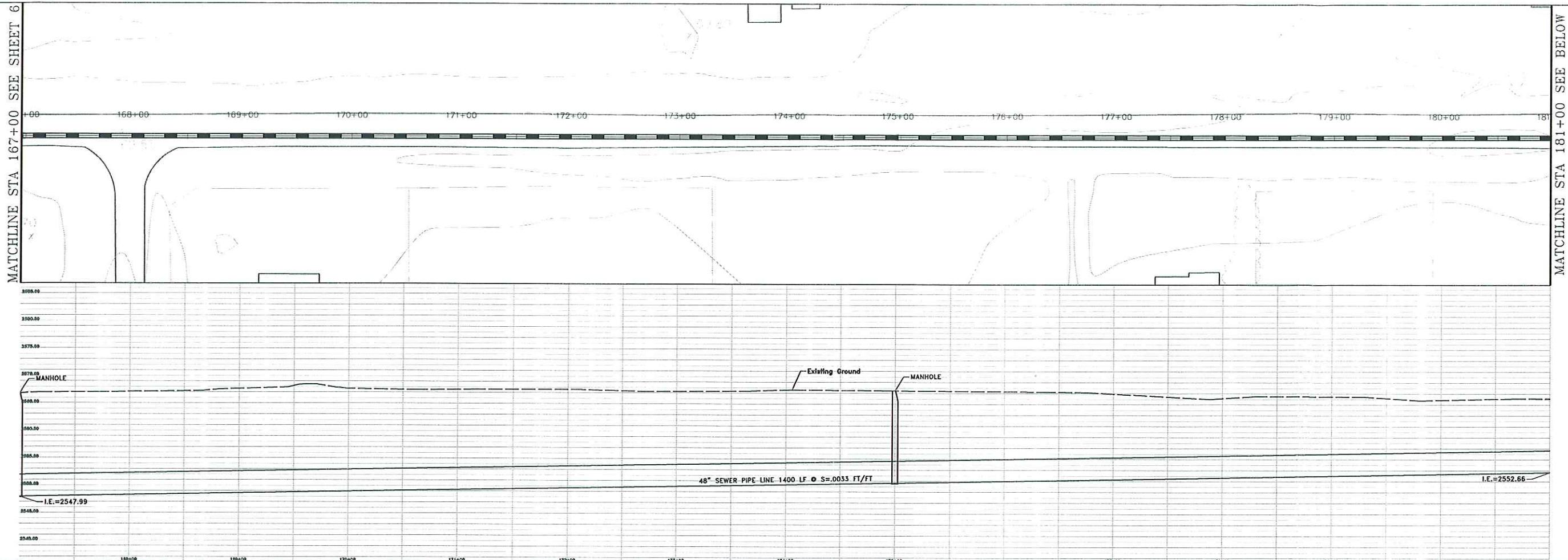
MATCHLINE STA 153+00 SEE BELOW

MATCHLINE STA 153+00 SEE ABOVE

SHT. OF 11

FILE NAME:
REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY



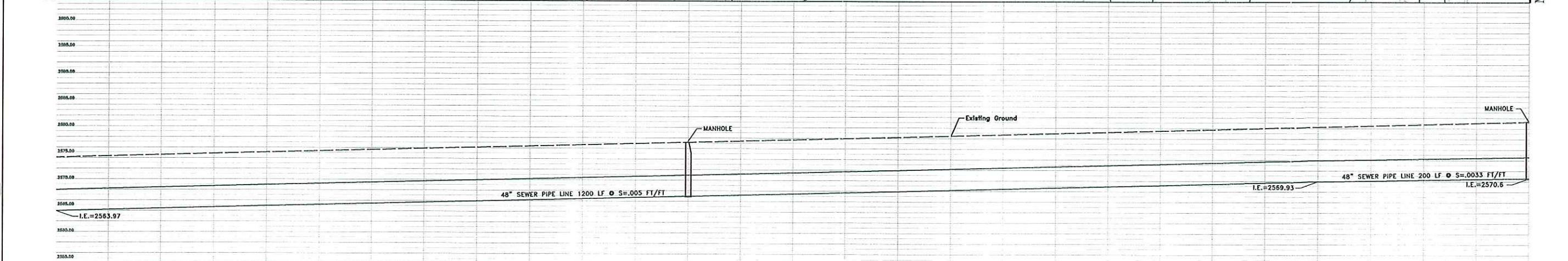
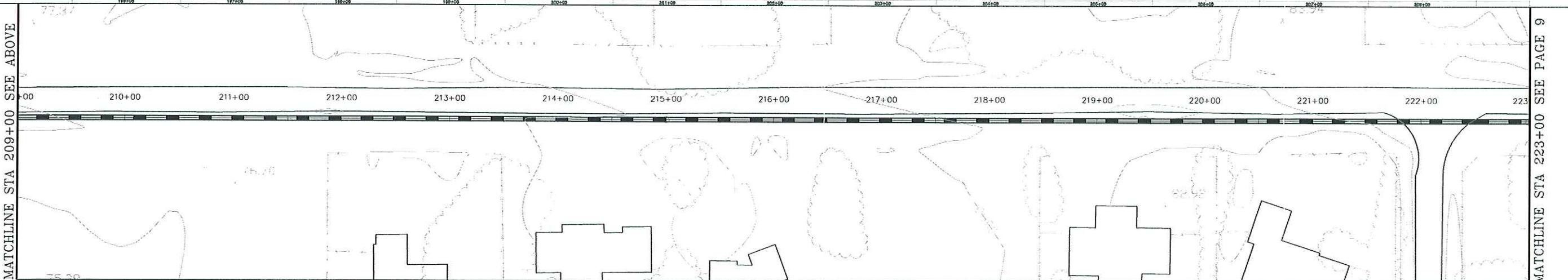
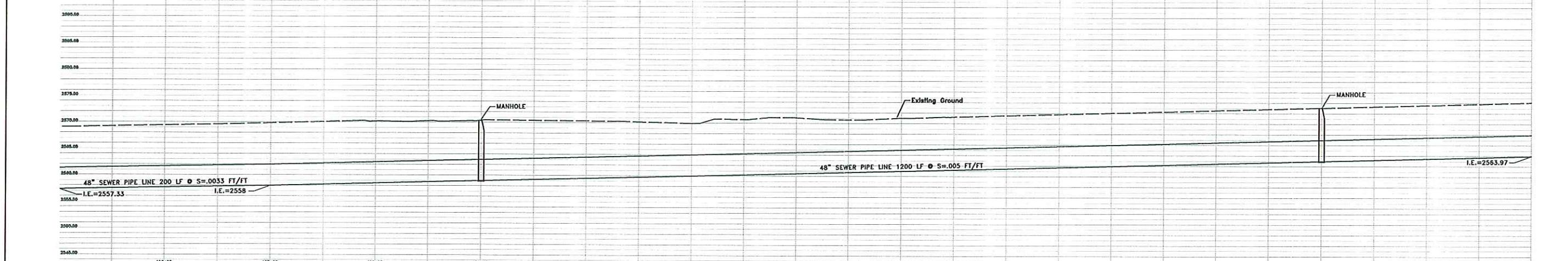
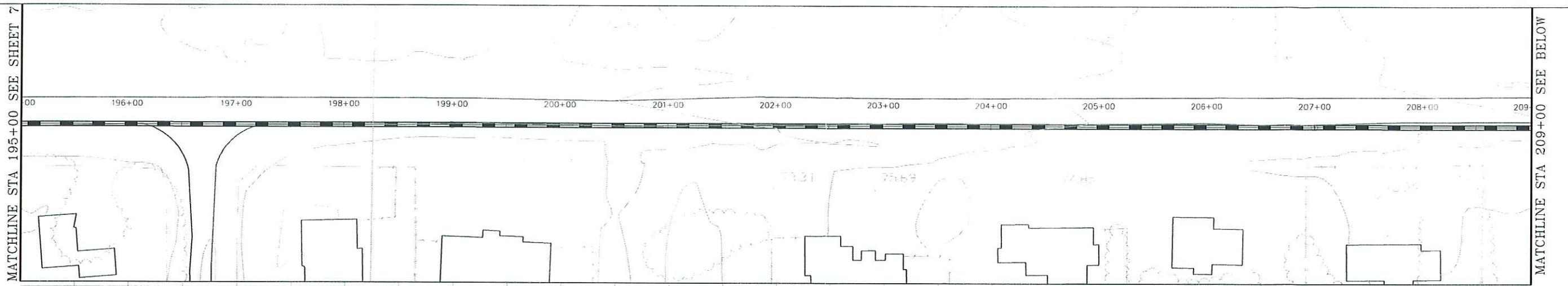
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| NO. | DATE | DESCRIPTION | REVISIONS | | |

CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP



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| 263-1100 | PLOTTING DATE |
| BUREAU CENTER CALL COLLECT | |
| SHT. 7 | OF 11 |





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CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP

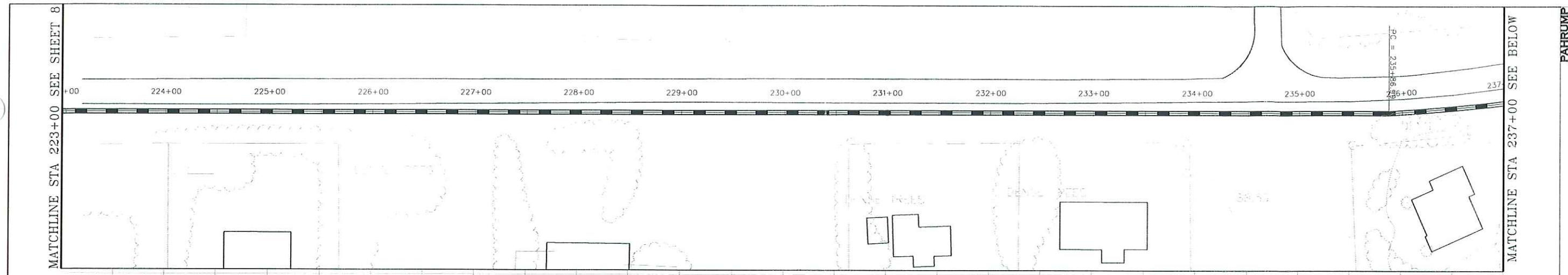


TRI-CORE
ENGINEERING
7272 E INDIAN SCHOOL RD
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

263-1100
TWO PIPING CALL BEFORE YOU DIG
CALL FOR THE BLUE STATES
CALL COLLECT

SHT. 8
OF 11

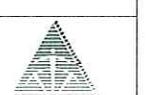
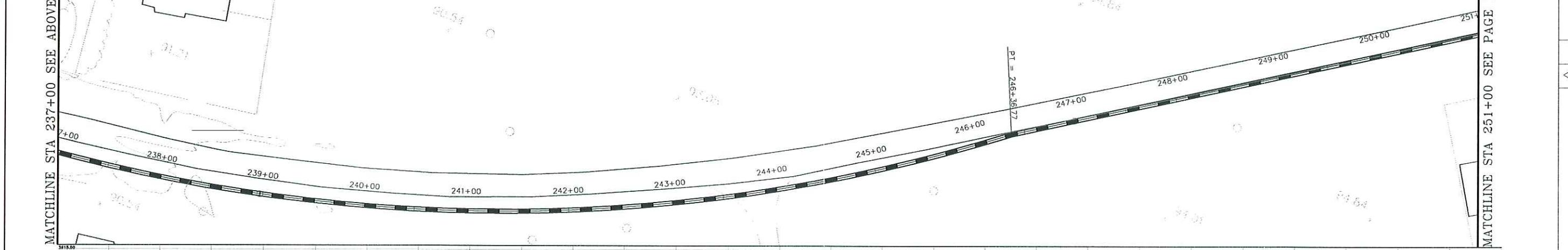
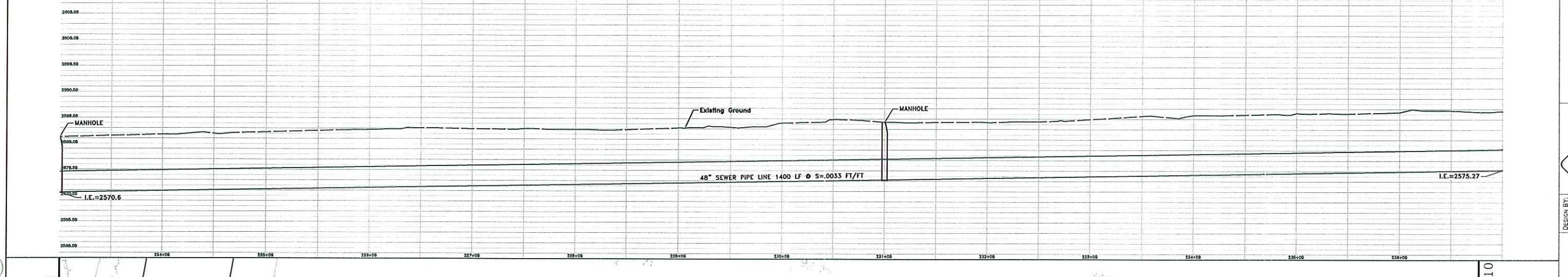
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NYE COUNTY, NEVADA WASTEWATER TREATMENT & TRUNKLINE ALTERNATIVES STUDY

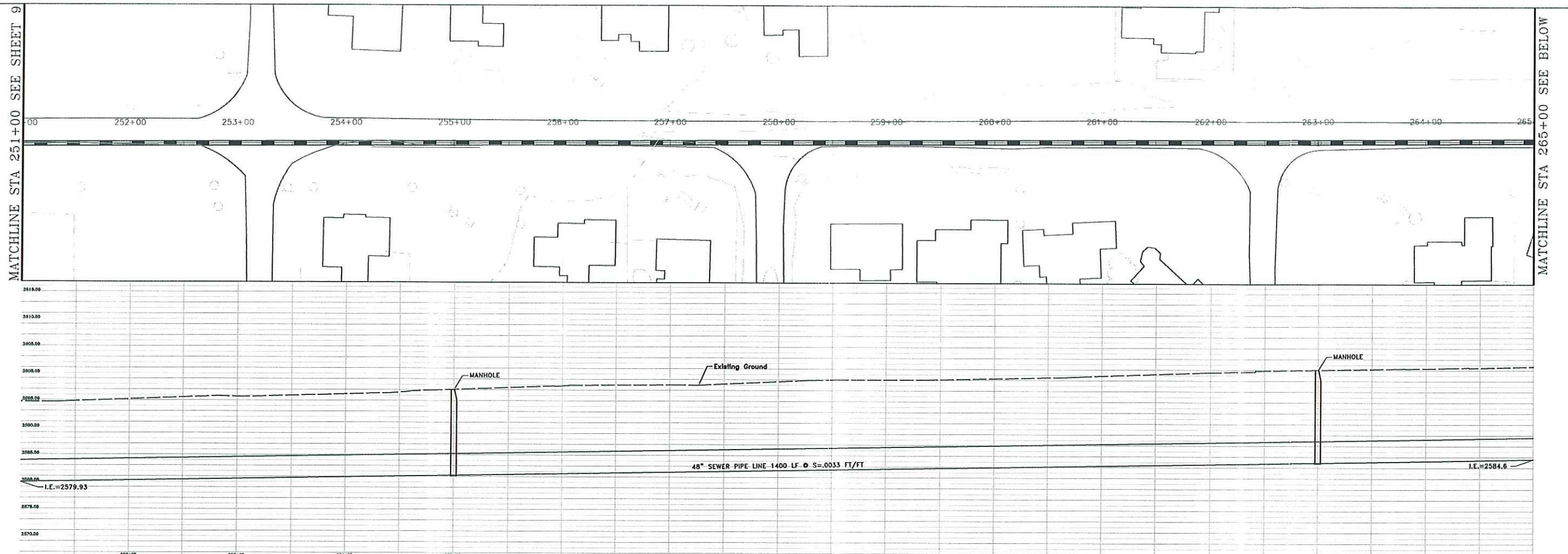


**TRI-CORE
ENGINEERING**
72 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

TWO WORKING DAYS BEFORE YOU DIS-
CALL FOR THE BLUE STAKES
263-1100
BLUE STAKES CENTER
CALL COLLECT

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DF 11

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY



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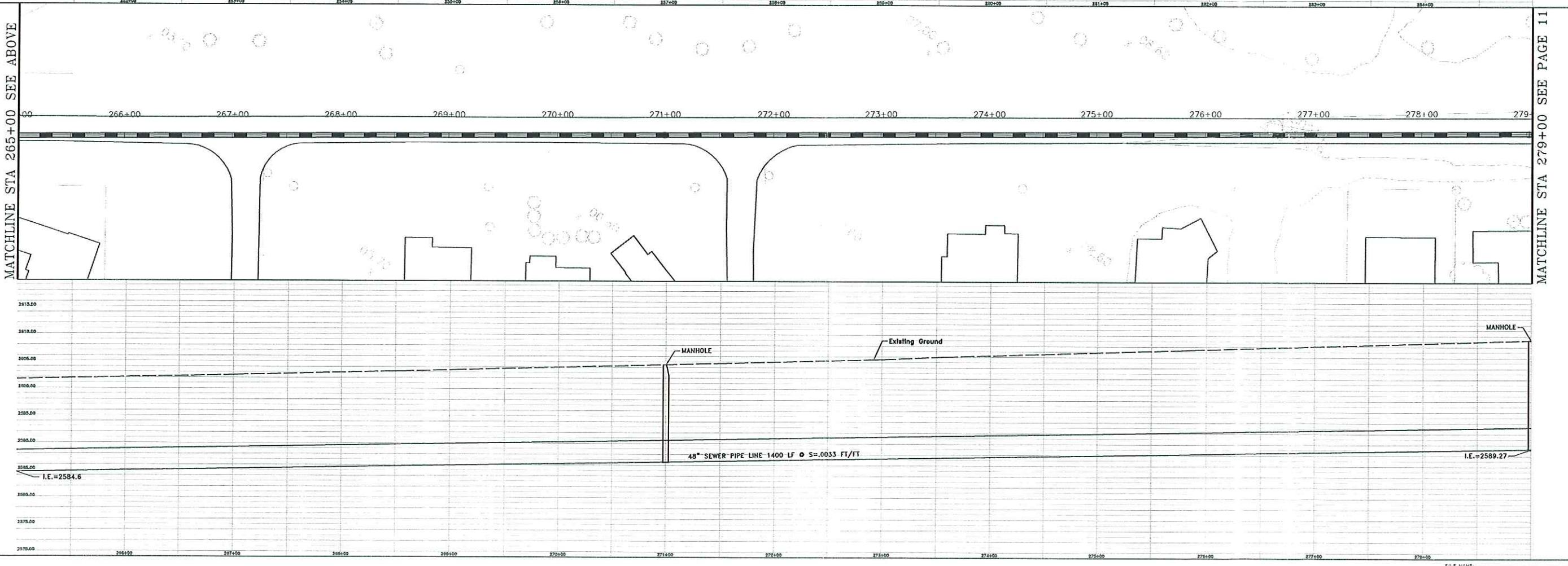
CALVADA BLVD
TRUNKLINE SEWER
TO REGIONAL WWTP



TRI-CORE
ENGINEERING
7272 E. INDIAN SCHOOL RD
SUITE 100
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

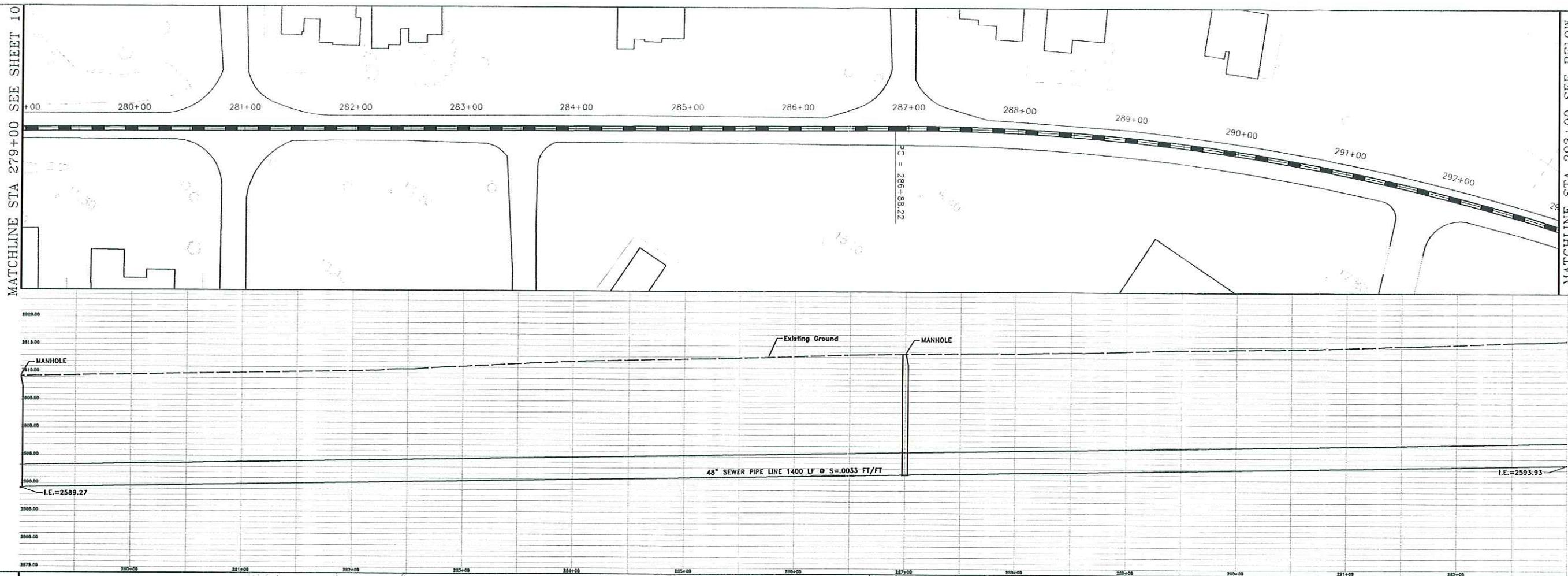
263-1100
TOLL FREE NUMBER
CALL COLLECT

SHT. 10
OF 11



FILE NAME _____
REVISION DATE _____
FLOATING DATE _____
AUTOCAD VER. _____

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

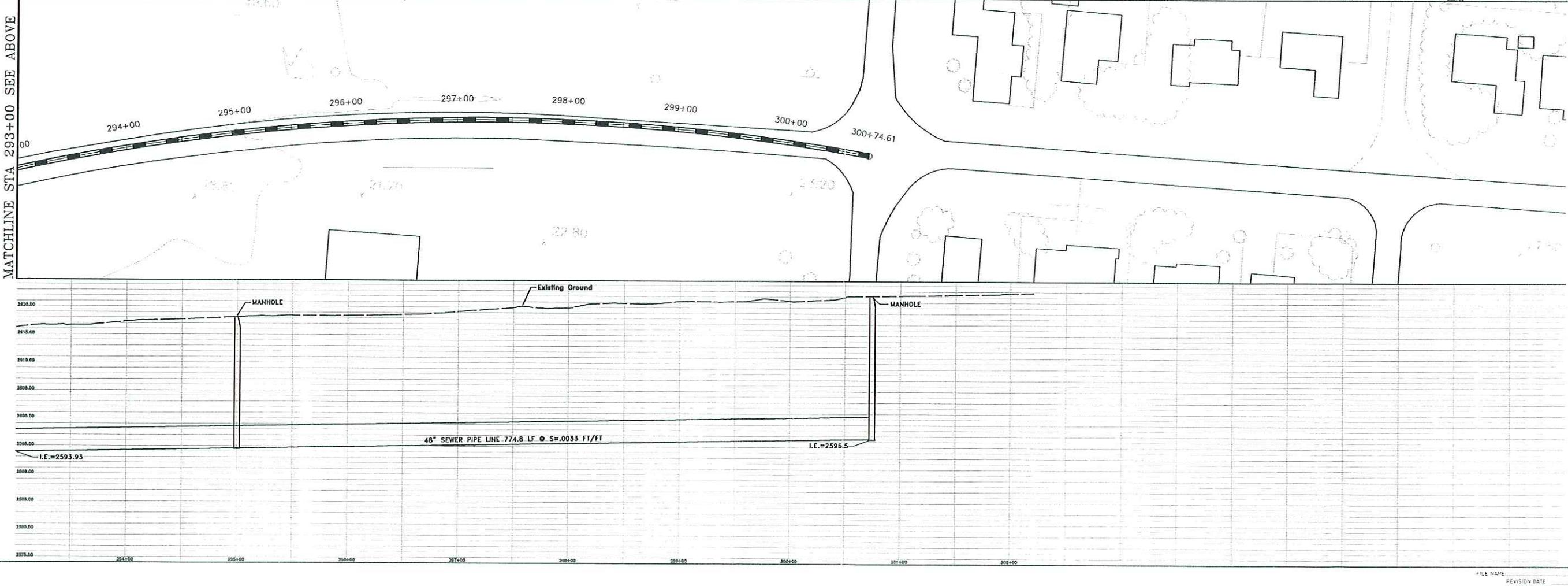


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CONSTRUCTION**

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| Drawn By: | BP |
| Checked By: | DL |

No. Date Description

REVISIONS

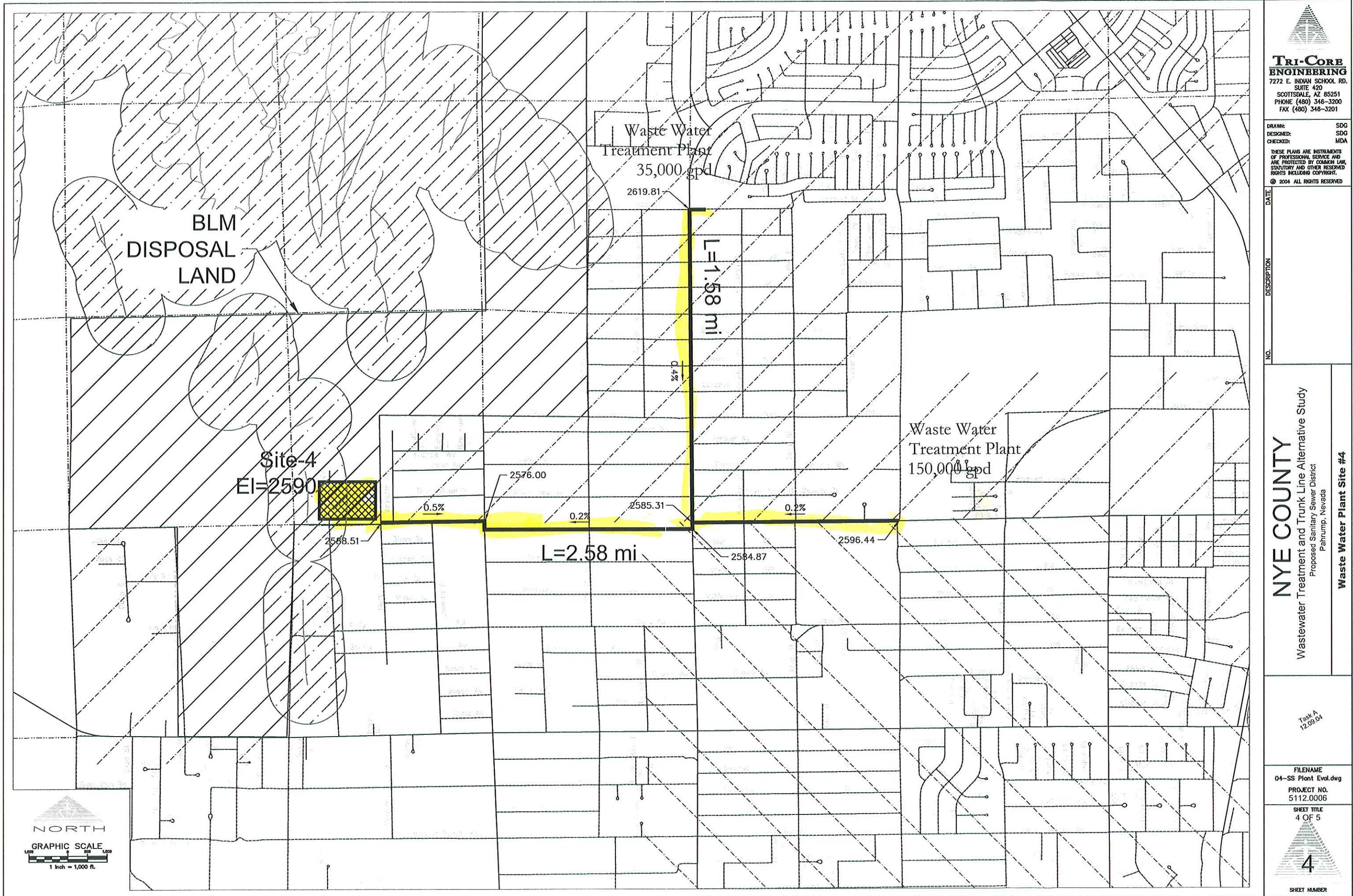


**TRI-CORE
ENGINEERING**
7272 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
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TWO POKING DATE BEFORE YOU DIG
CALL FOR THE BLUE STAKES
263-1100

SHT. 11
OF 11

FILE NAME _____
REVISION DATE _____
PLOTTING DATE _____
AUTOCAD VER _____



**TRI-CORE
ENGINEERING**
7272 E INDIAN SCHOOL RD.
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 348-3201

DRAWN: SDG
DESIGNED: SDG
CHECKED: MDA

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DATE

NO. DESCRIPTION

Table 4 - OPC for Site 4

| DESCRIPTION | QUANTITY | UNIT | UNIT COST | TOTAL COST |
|---|----------|------|---|-----------------------|
| Remove and replace aggregate service road | 5423.366 | SY | \$2.40 | \$13,016.08 |
| Remove and replace asphalt pavement | 10649.19 | SY | \$3.60 | \$38,337.10 |
| 48" Sanitary sewer line | 19442.53 | LF | \$240.00 | \$4,666,207.20 |
| Sewer manhole 10 to 15 ft | 6 | EA | \$6,500.00 | \$39,000.00 |
| Sewer manhole 15 to 20 ft | 12 | EA | \$7,000.00 | \$84,000.00 |
| Sewer manhole over 20 ft | 8 | EA | \$7,500.00 | \$60,000.00 |
| Right of way acquisition | 19442.53 | SF | \$1.15 | \$22,358.91 |
| Sanitary Sewer Pump Station | 1 | EA | \$60,000.00 | \$60,000.00 |
| 12" DIP Force Main | 2830 | LF | \$70.00 | \$198,100.00 |
| Air Entrainment Valve | 4 | EA | \$2,000.00 | \$8,000.00 |
| | | | | ----- |
| | | | Subtotal | \$5,189,019.30 |
| | | | | |
| | | | <i>Dust, Erosion and Quality Control (5%)</i> | \$259,451.00 |
| | | | <i>Construction Survey (2%)</i> | \$103,780.40 |
| | | | <i>Contingencies (15%)</i> | \$778,352.90 |
| | | | | |
| | | | Construction Subtotal | \$6,330,603.60 |
| | | | | |
| | | | <i>Administration and Legal (5%)</i> | \$316,530.20 |
| | | | <i>Engineering Design (10%)</i> | \$633,060.40 |
| | | | <i>Construction Management (8%)</i> | \$506,448.30 |
| | | | | |
| | | | Total Cost = | \$7,786,642.50 |

Notes:

For acquisition of easements on private land a cost of \$50,000 per acre is assumed.

Unit prices based on construction costs for similar work on drainage projects in Arizona & Nevada.

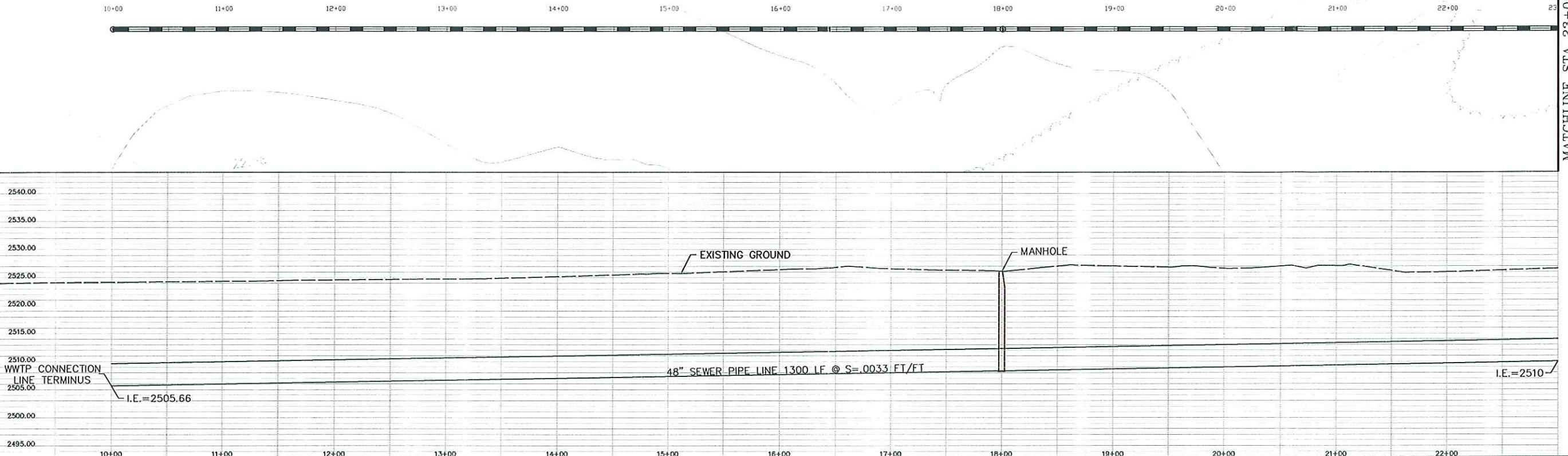
Wastewater Treatment & Truckline Alternative Study

Site 4 Trunkline Sewer to Regional WWTP

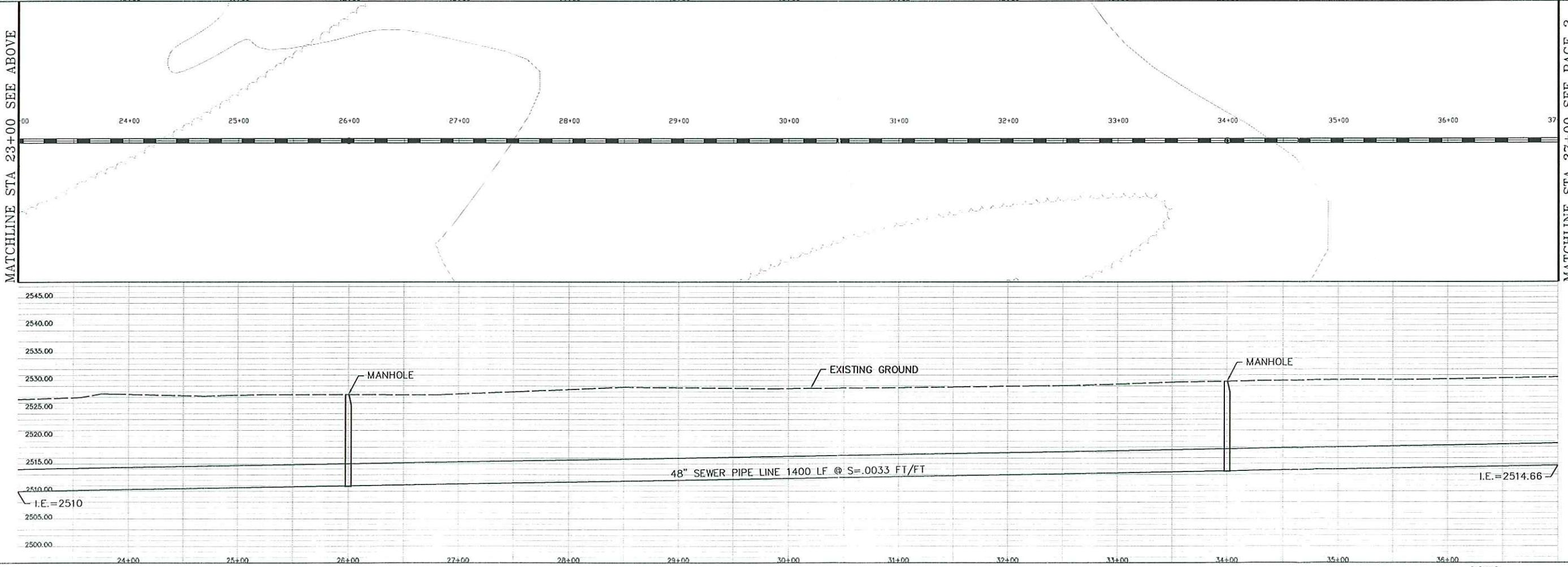
Nye County, Nevada

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

MATCHLINE STA 23+00 SEE BELOW



MATCHLINE STA 37+00 SEE PAGE 2



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| Design By: | BP | |
| Drawn By: | BP | |
| Checked By: | DJ | |
| No. | Date | Description |
| REVISIONS | | |

MANSE RD TRUNKLINE SEWER
TO REGIONAL WWTP

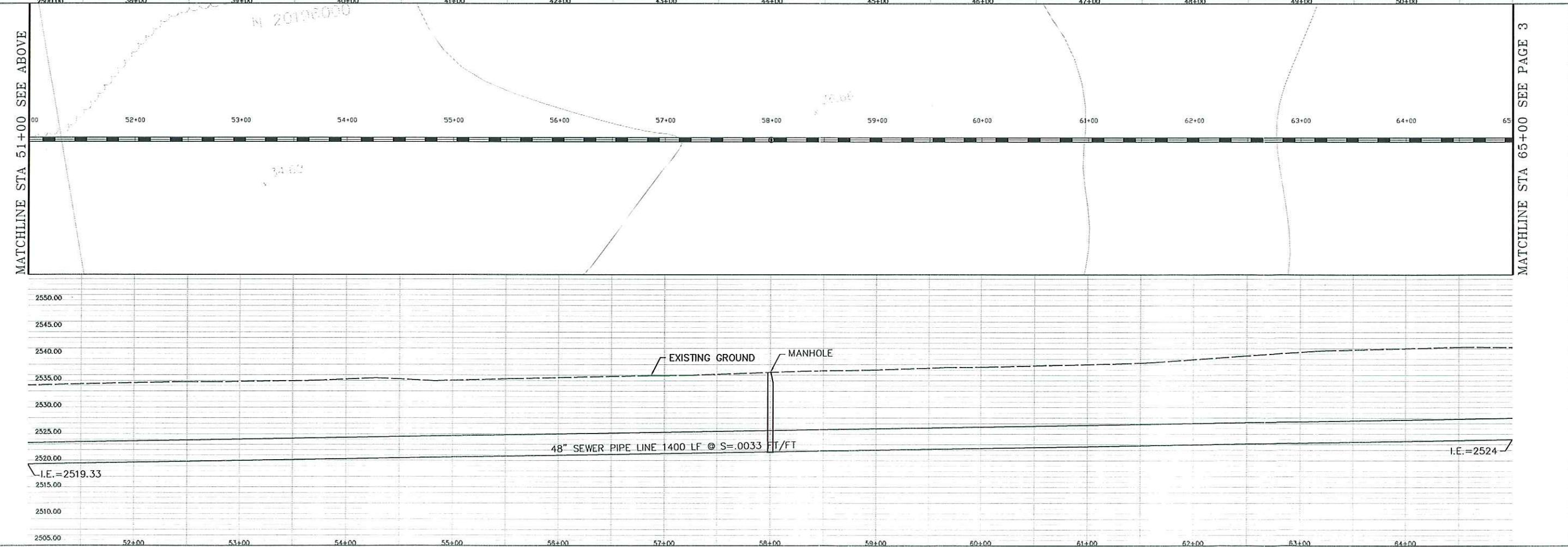
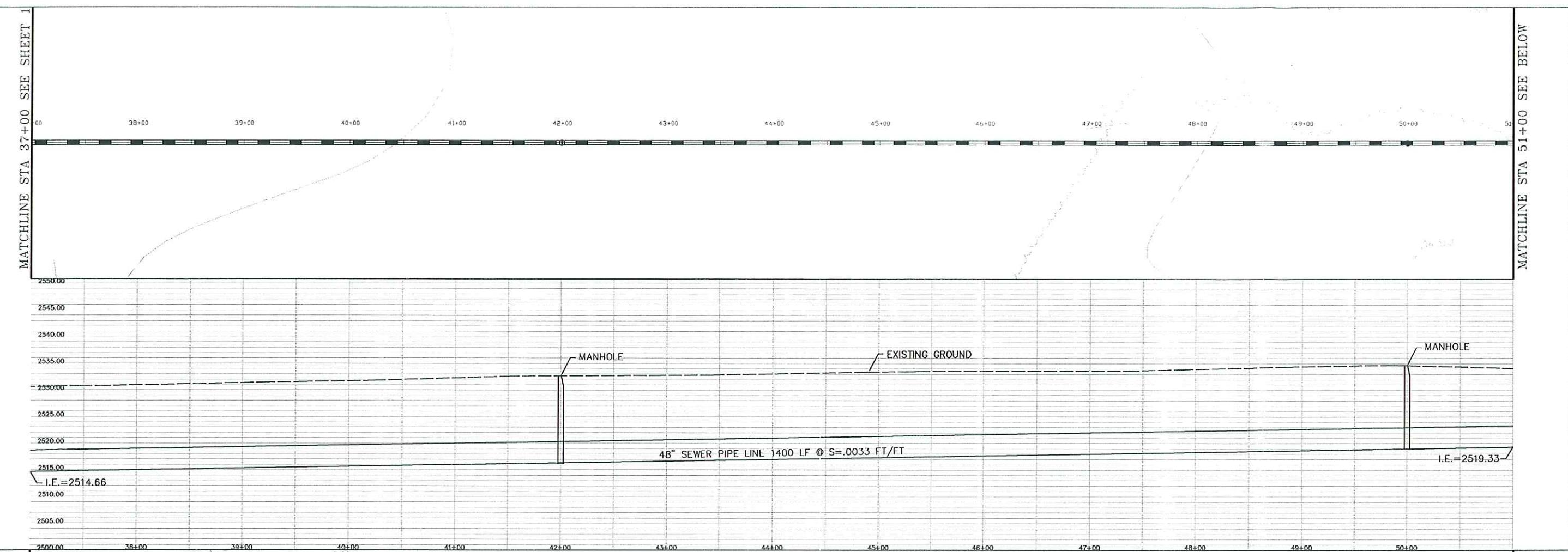


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7272 E. RODA SCHOOL RD
SUITE 420
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263-1100
ELLE STAKES CENTER
CALL COLLECT

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J263-1100
BELL STAMER CENTER
CALL COLLECT

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REVISION DATE: _____
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AUTOCAD VER: _____
SHT. 2
OF 17

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

PRELIMINARY
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CONSTRUCTION

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| BP | BP | DL |
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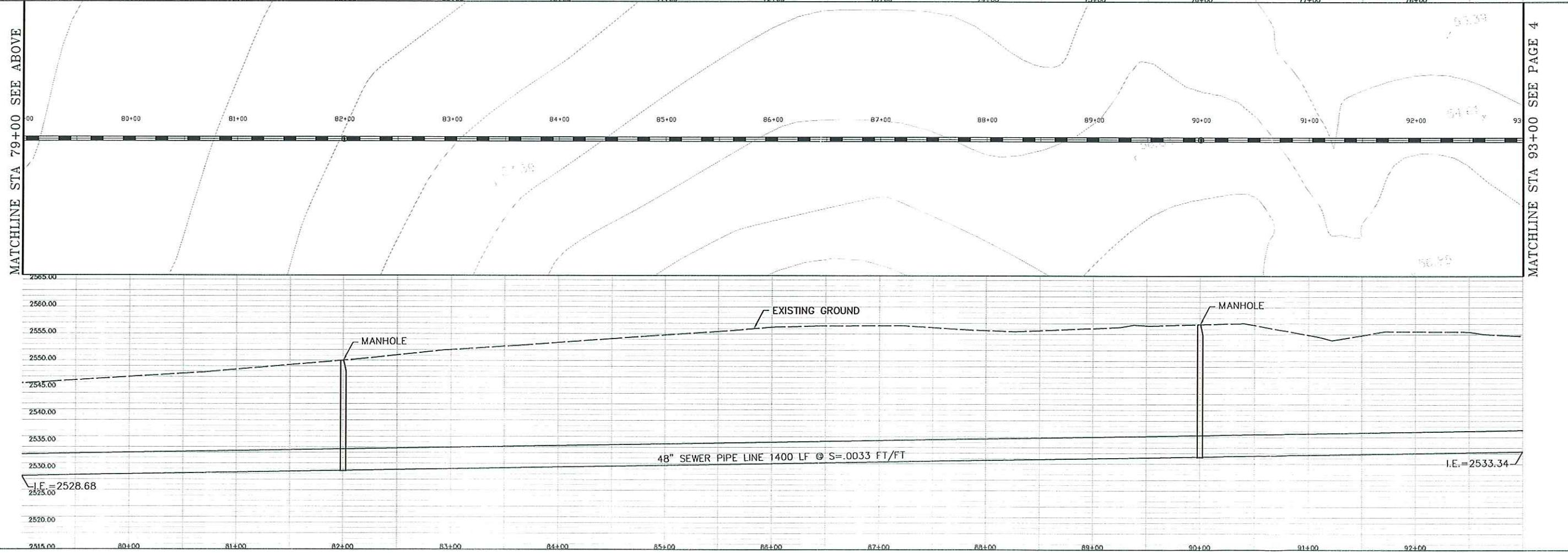
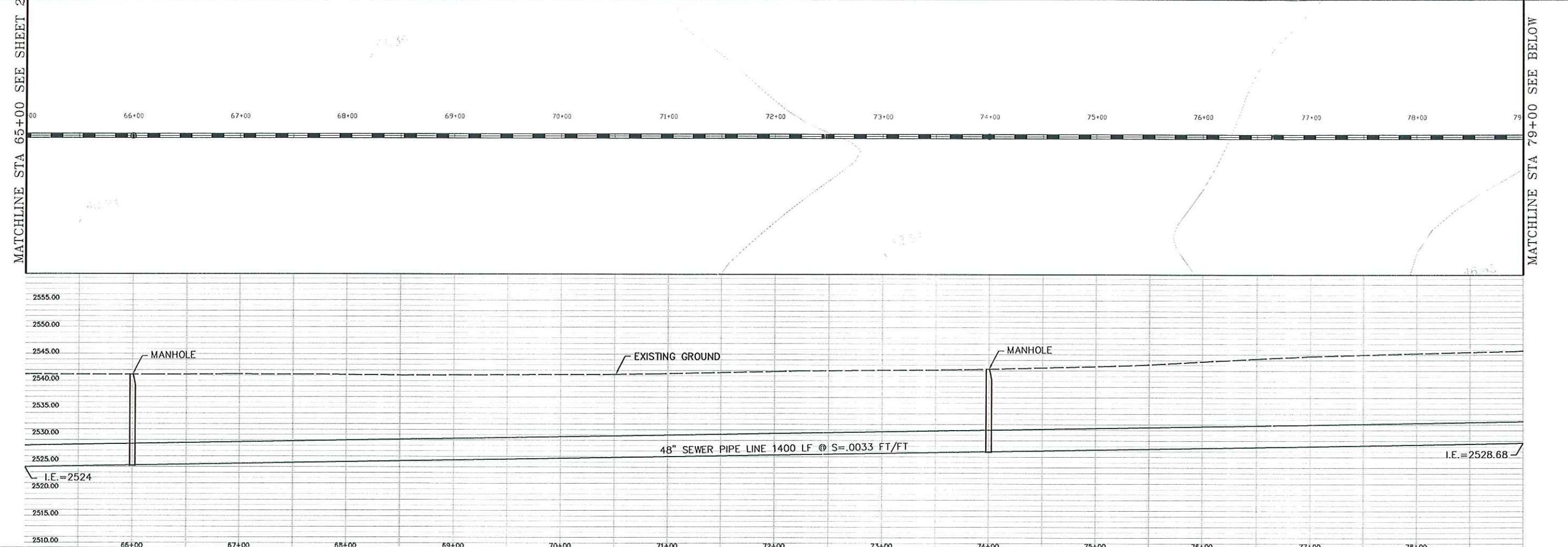
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SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
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FILE NAME:
J263-1100
CALL FOR THE BLUE STARS
BILL STAKES CENTER CALL COLLECT

SHT. OF 3
17



FILE NAME:
J263-1100
CALL FOR THE BLUE STARS
BILL STAKES CENTER CALL COLLECT

REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:

SHT. OF 3
17



Pahrump
REGIONAL
PLANNING
DISTRICT

PUBLIC
FACILITIES

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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TO REGIONAL WWTP**

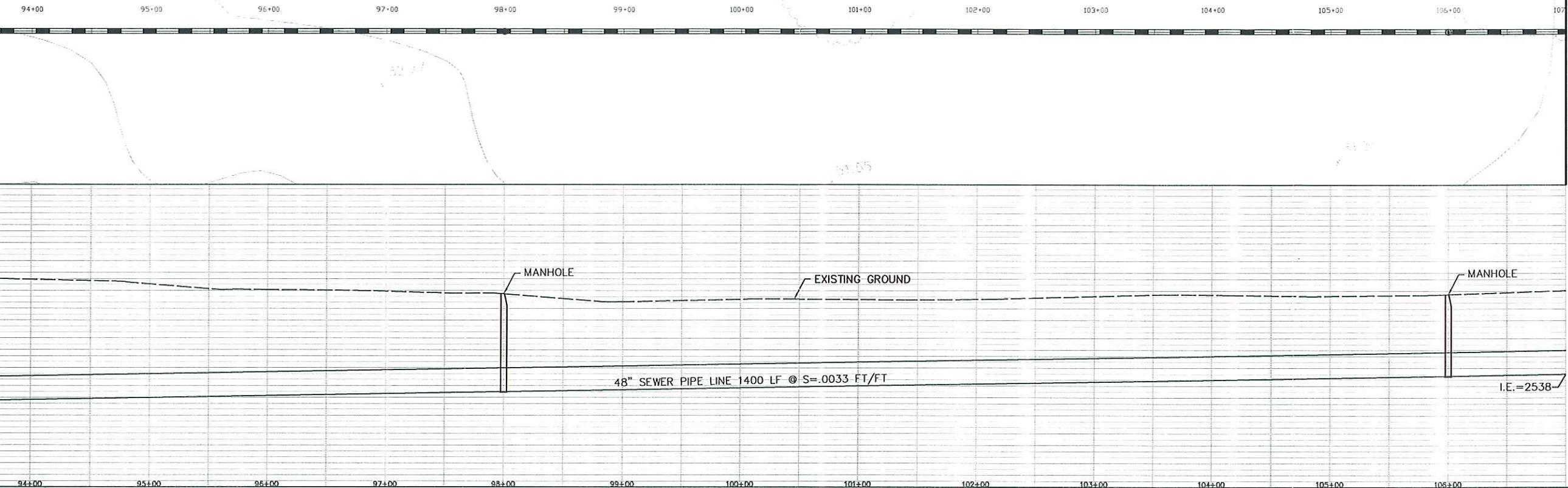


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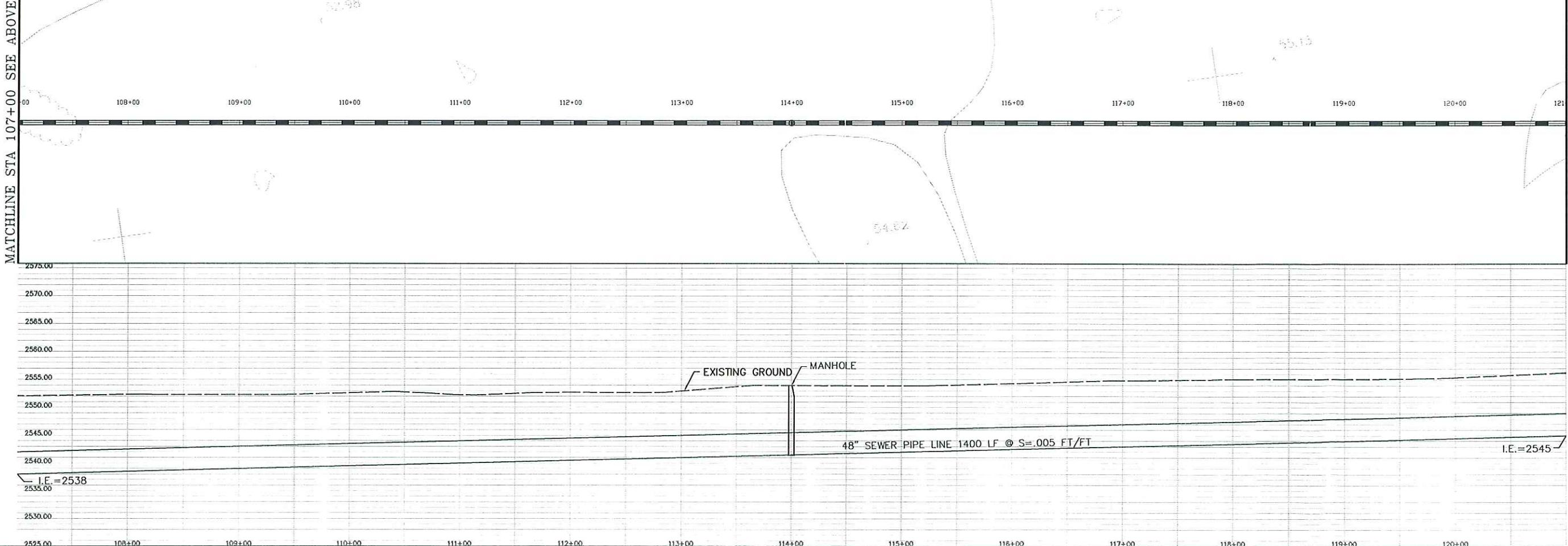
J263-1100
FILE NUMBER
REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:
BILL STAKES CENTER
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SHT. 4
OF 17

MATCHLINE STA 93+00 SEE SHEET 3



MATCHLINE STA 107+00 SEE ABOVE



NYE COUNTY, NEVADA
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TO REGIONAL WWTP**



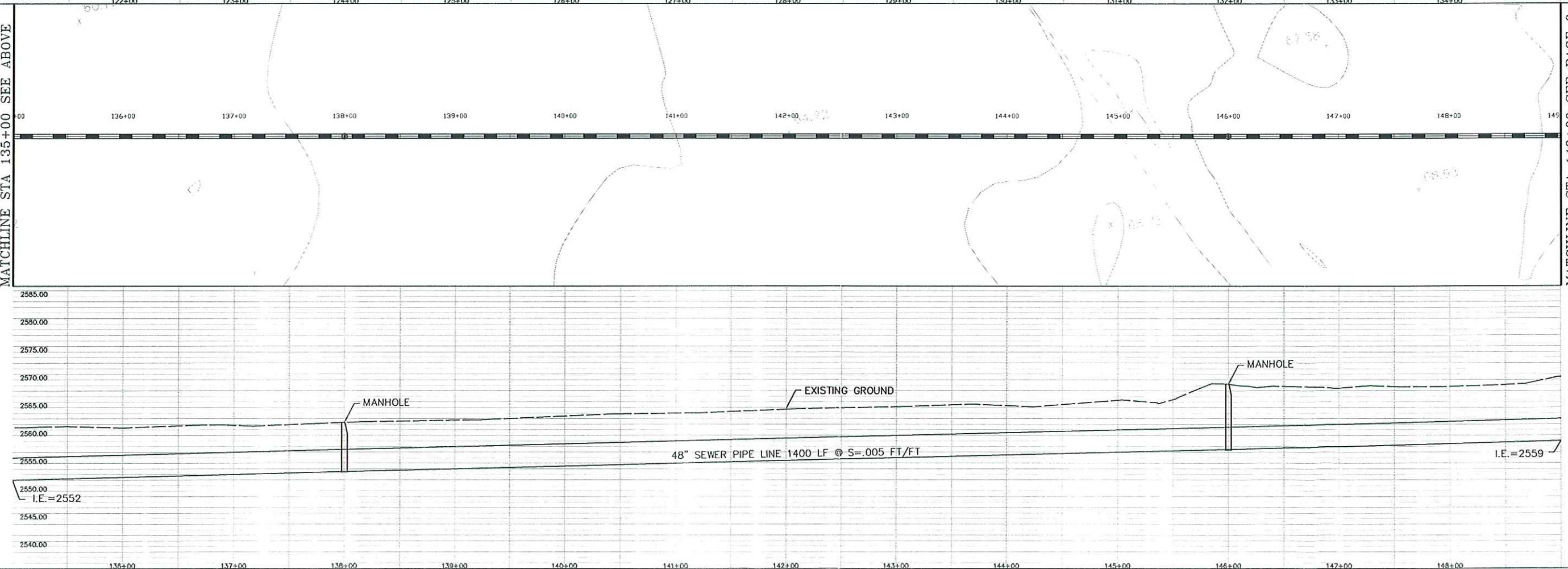
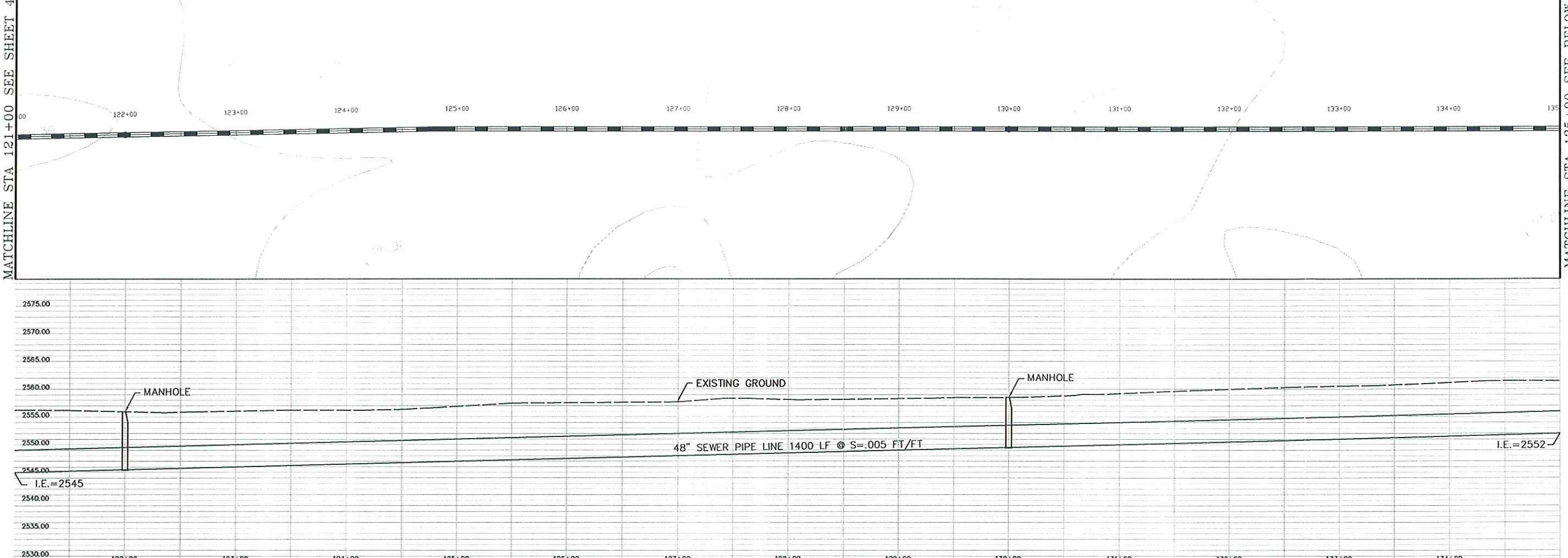
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SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

J263-1100
THE FISHING DAYS BEFORE YOU DINE
CALL FOR THE BLUE STARS
ELITE STATES CENTER CALL COLLECT

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OF**
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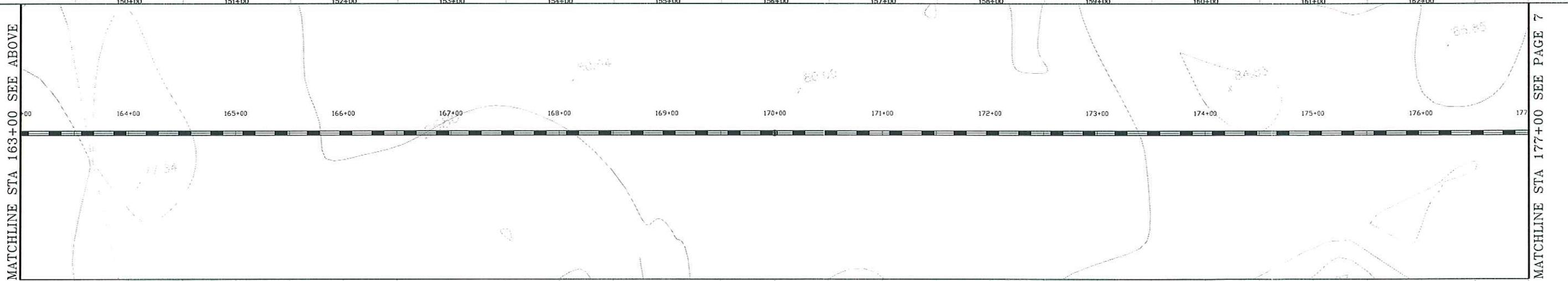
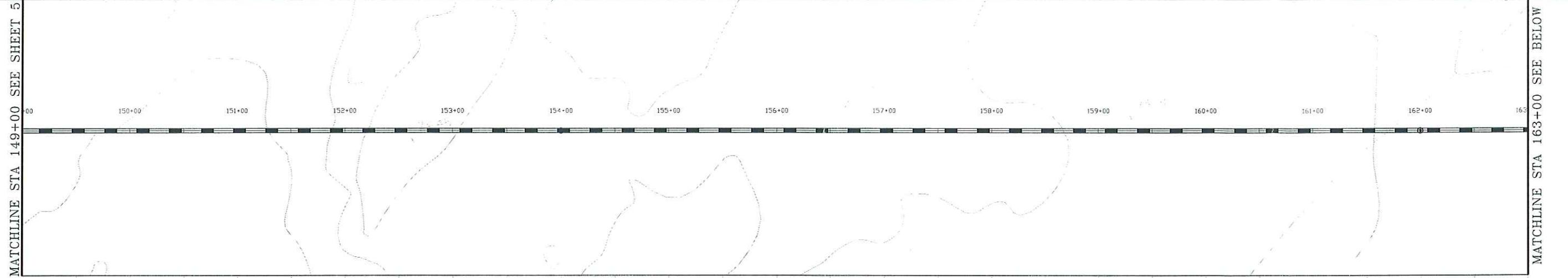
MATCHLINE STA 135+00 SEE SHEET 4

MATCHLINE STA 149+00 SEE PAGE 6



FILE NAME: **J263-1100**
REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:

NYE COUNTY, NEVADA
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TRUNKLINE ALTERNATIVES STUDY



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| CHECKED BY: DL | REVISIONS | |
| No. | Date | Description |

MANSE RD TRUNKLINE SEWER
TO REGIONAL WWTP



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ENGINEERING
7272 E INDIAN SCHOOL RD
SUITE 475
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

J 263-1100
TWO WORKING CLASS TRADES
CALL FOR THE BLUE STARS
ELITE STAKES CENTER
CALL COLLECT

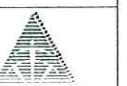
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OF 17

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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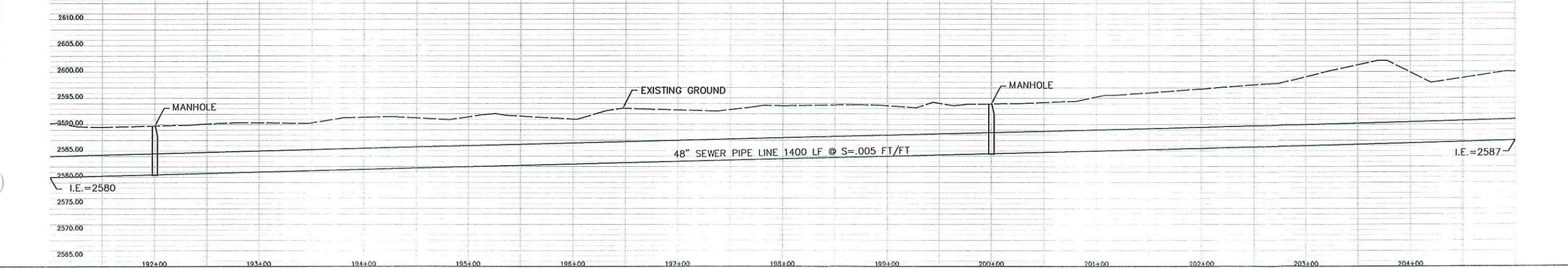
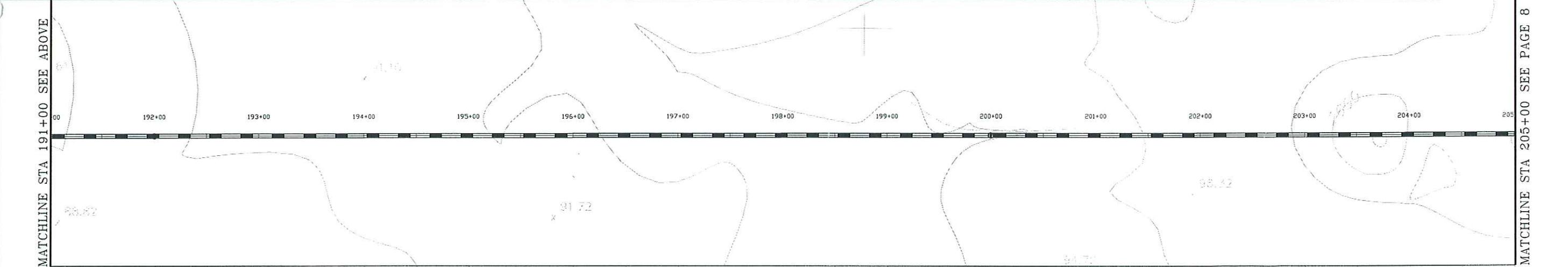
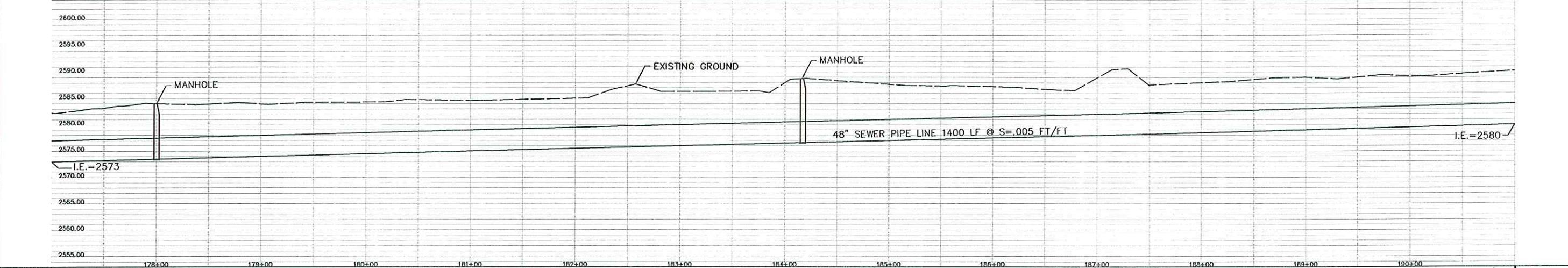
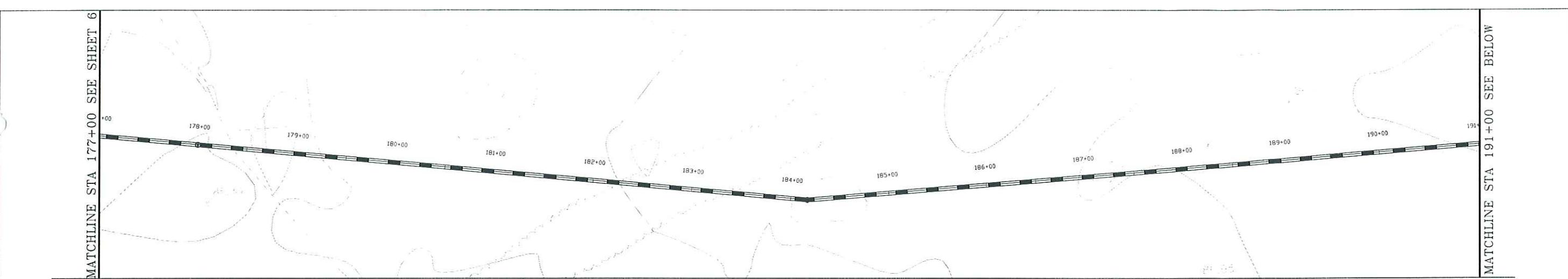


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SCOTTSDALE, AZ 85251
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FISHING DAYS BEGUN FOR 2010
CALL FOR THE BLUE STAKES
263-1100

FILE NAME _____
REVISION DATE _____
PLOTTING DATE _____
AUTOCAD VER _____

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OF **17**





NYE COUNTY, NEVADA
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TRUNKLINE ALTERNATIVES STUDY

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J263-1100
TWO FIRMING DAYS BEFORE PLOT CALL FOR THE BLUE STAKES

FILE NAME: J263-1100

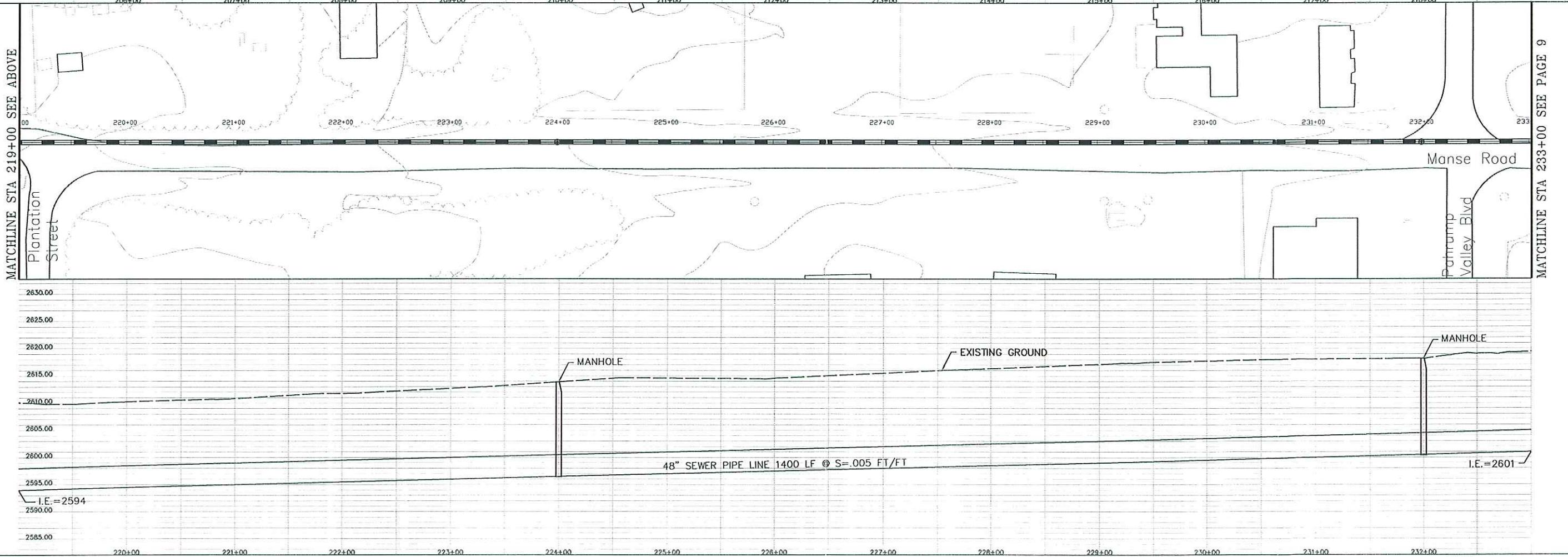
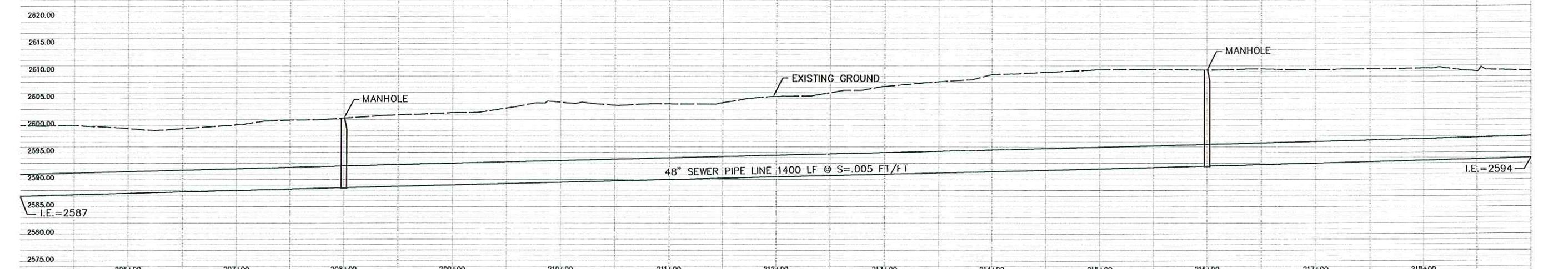
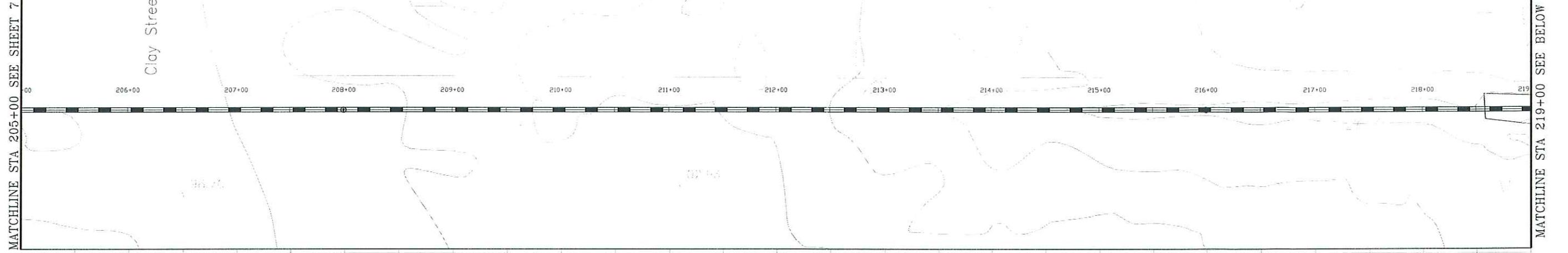
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OF 17



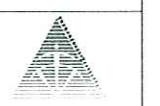
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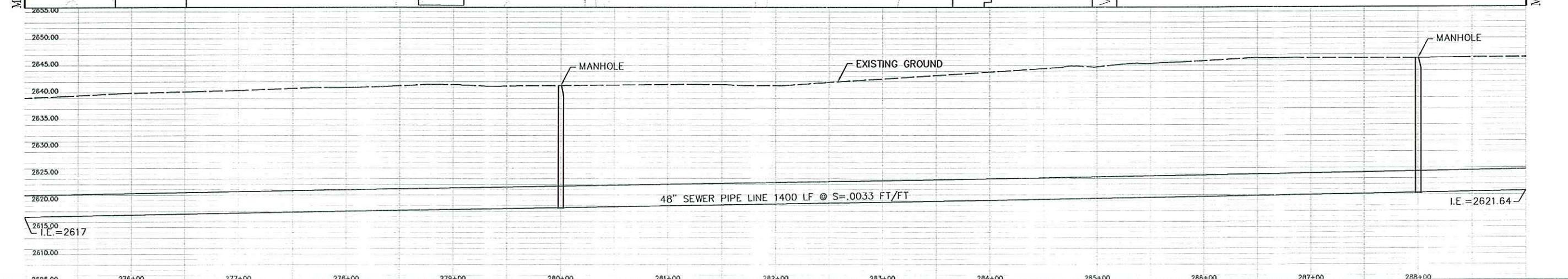
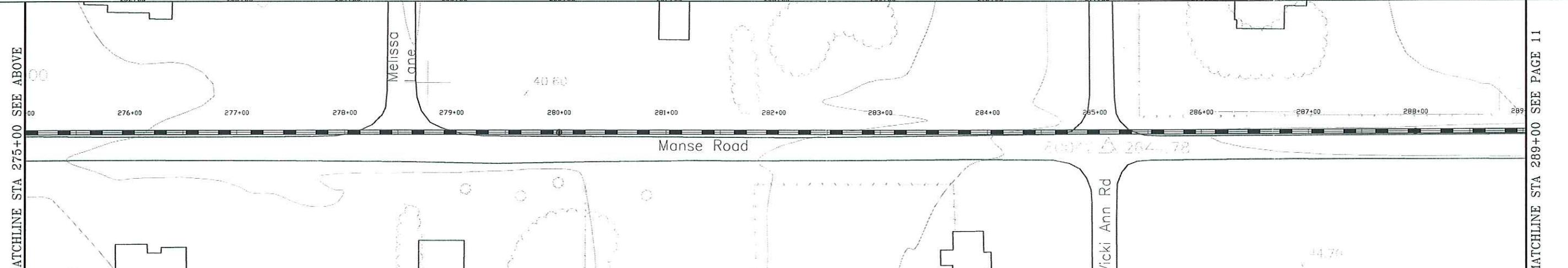
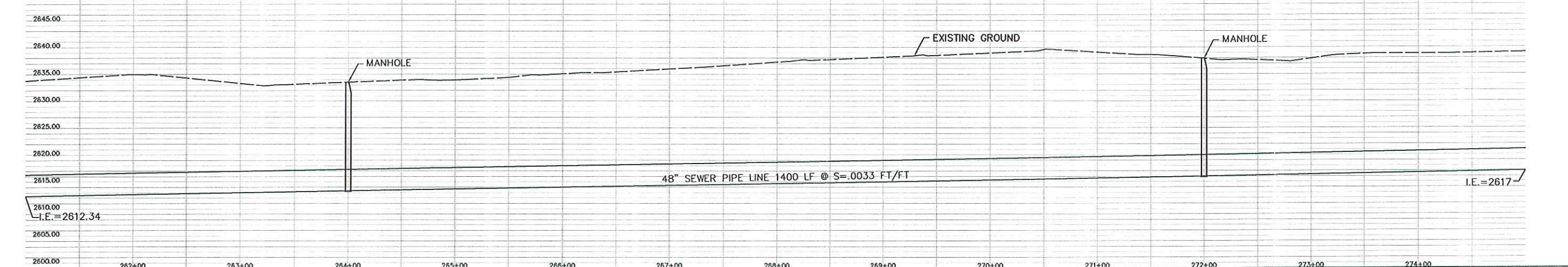
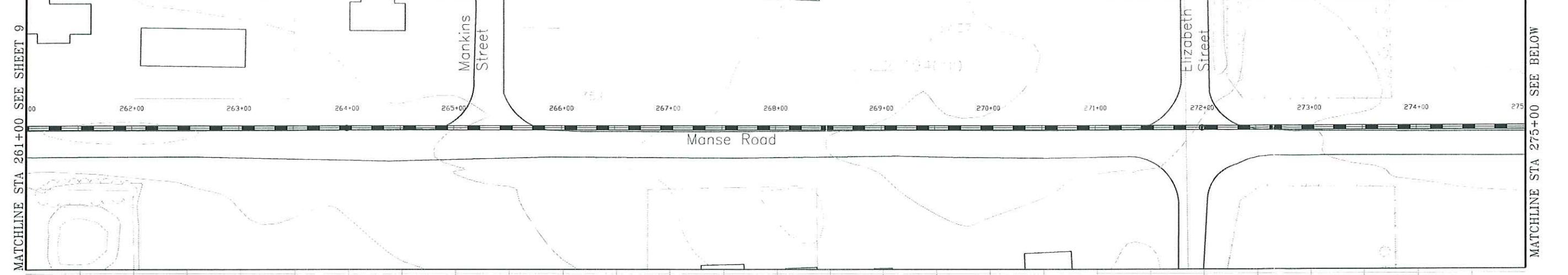
MANSE RD TRUNKLINE SEWER
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ENGINEERING
7272 E. INDIAN SCHOOL RD
SUITE 420
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PHONE (480) 346-3200
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NO FISHING CAT'S BEWARE YOU DO
CALL FOR THE BLM STAKES
263-1100

FILE NAME _____
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NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
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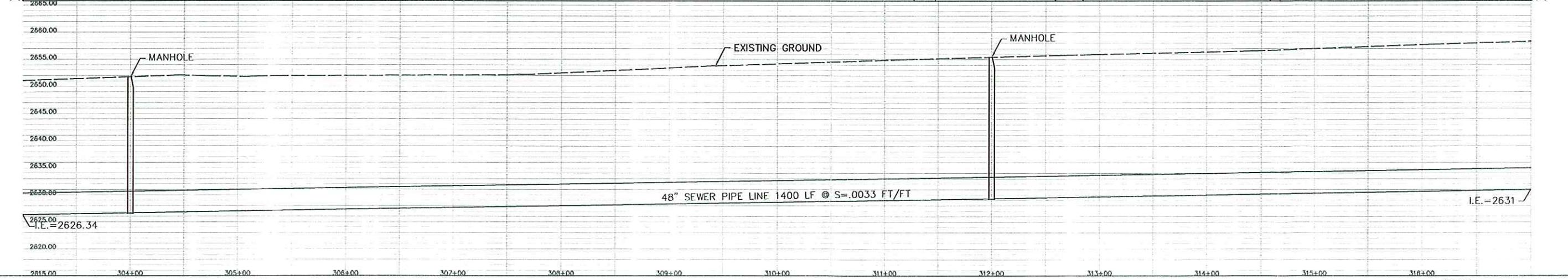
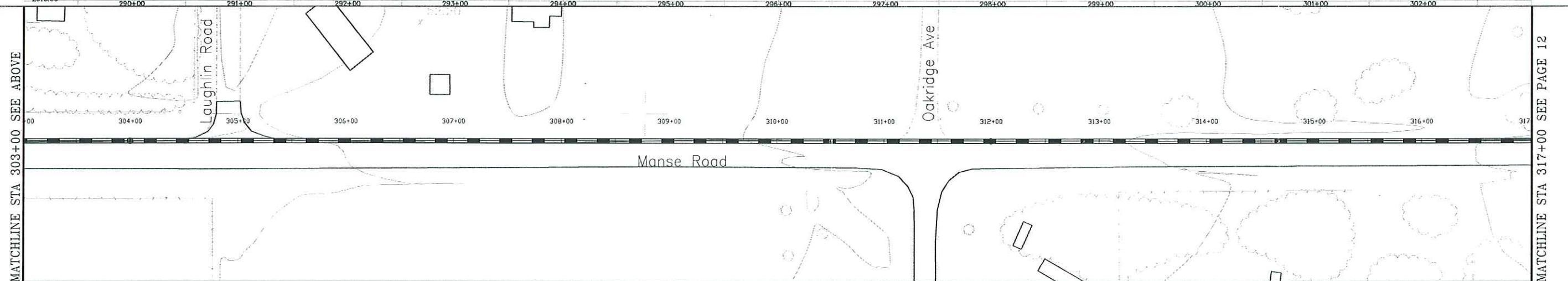
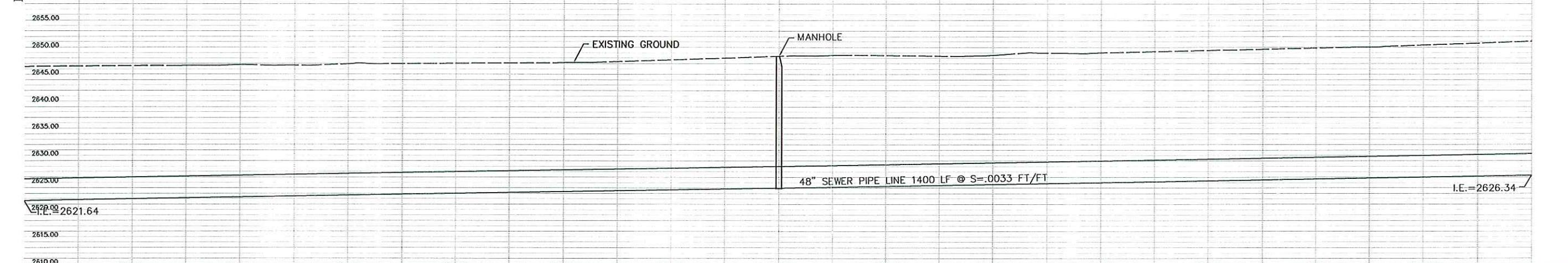
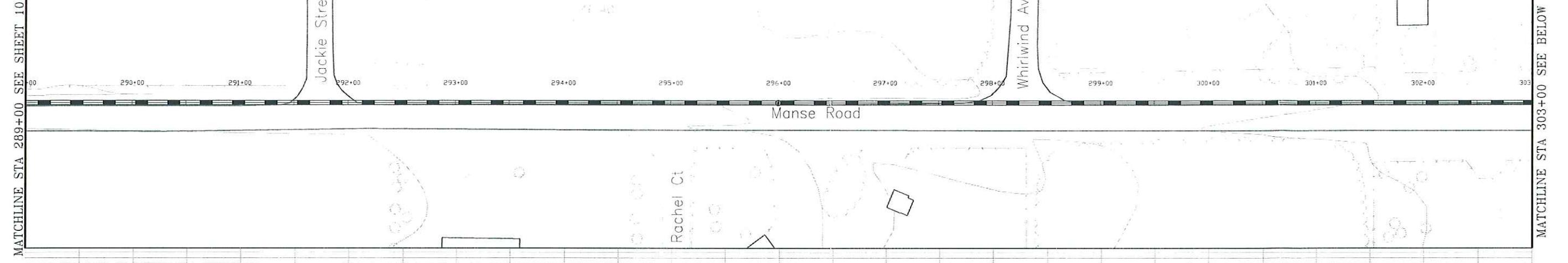
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THE PAVING DATE BEING UNKNOWN
CALL FOR THE BLUE STATES
263-1100

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NYE COUNTY, NEVADA
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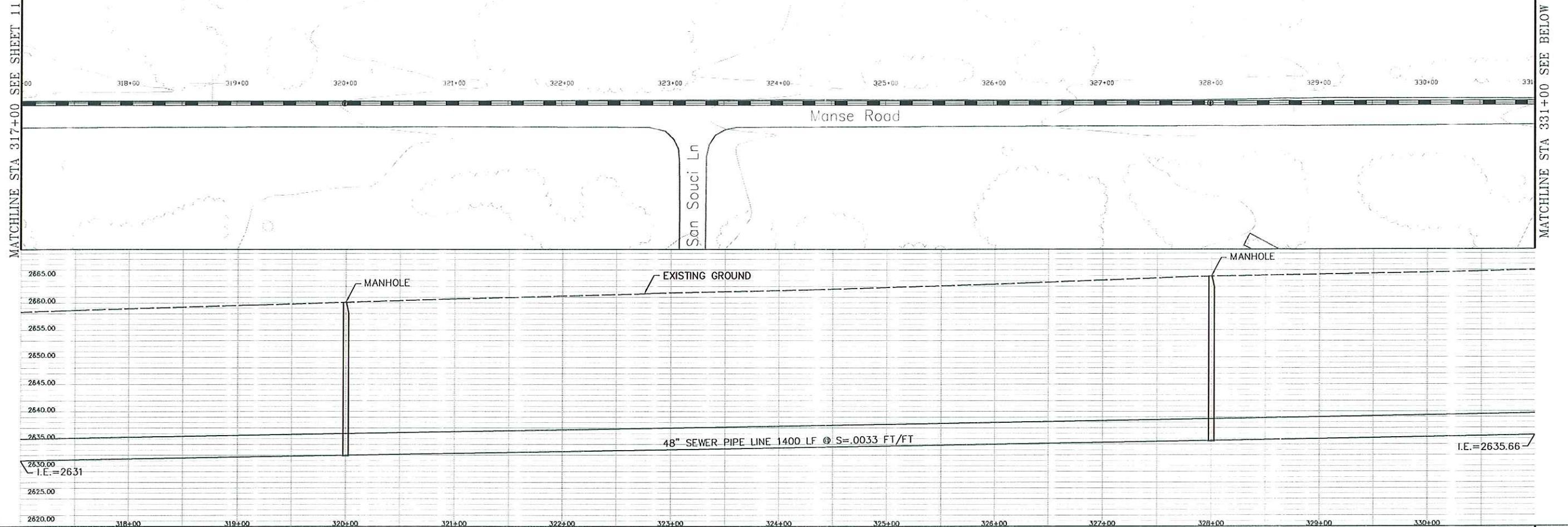
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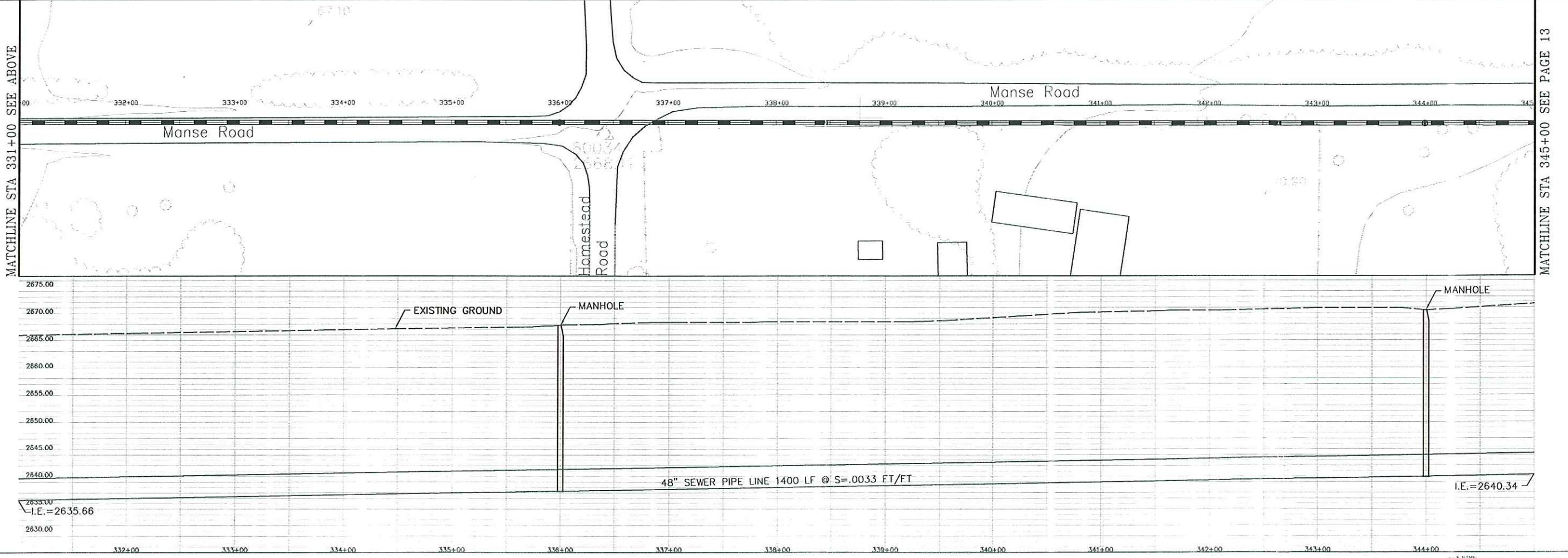
J263-1100
EASY STAFF CENTER
CALL COLLECT

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OF 17

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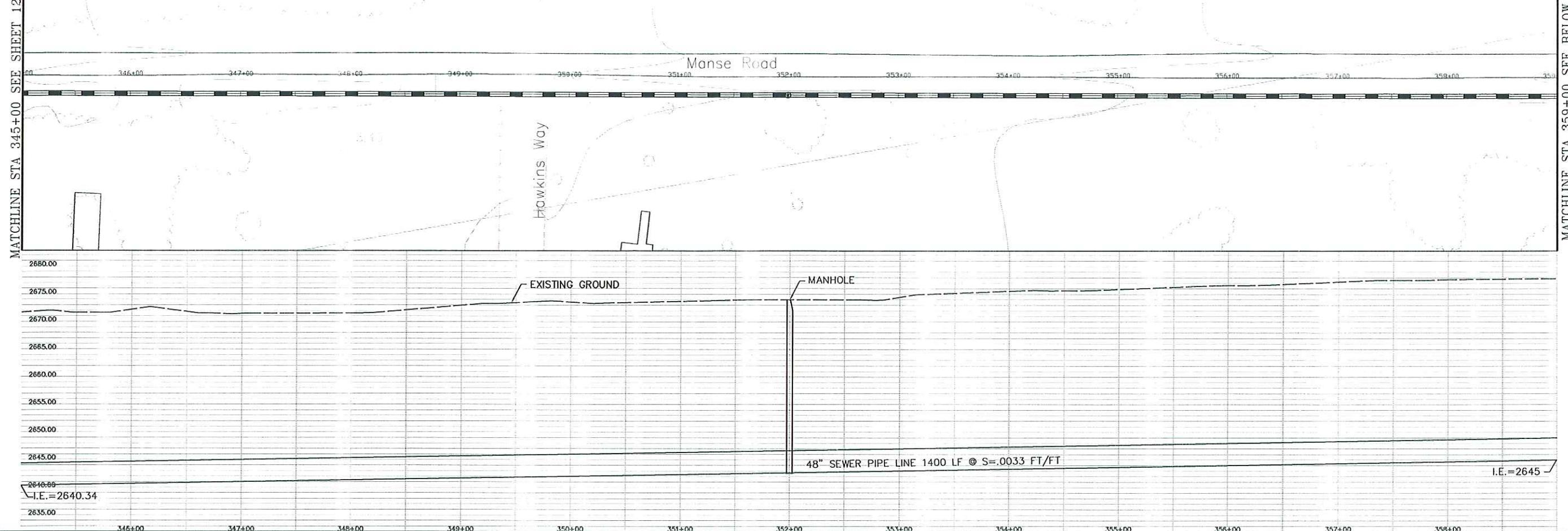


MATCHLINE STA 331+00 SEE BELOW

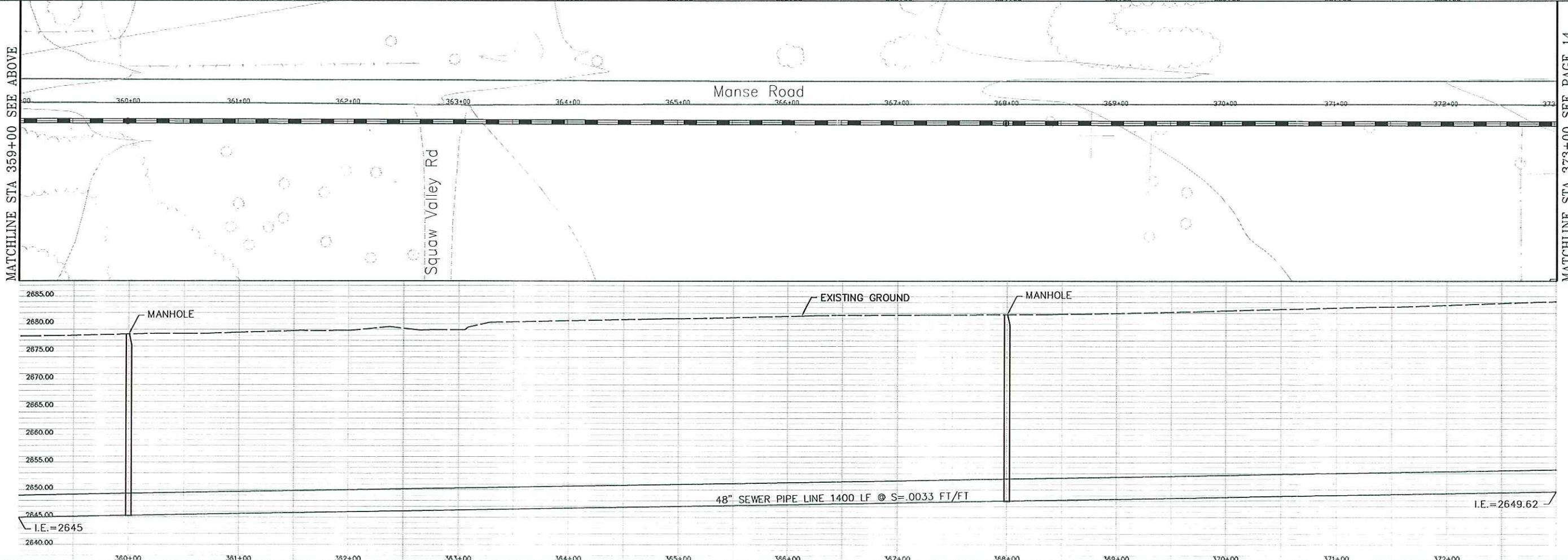


NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
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MATCHLINE STA 359+00 SEE BELOW



MATCHLINE STA 373+00 SEE PAGE 14



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Two Working Days Before Due Date
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263-1100

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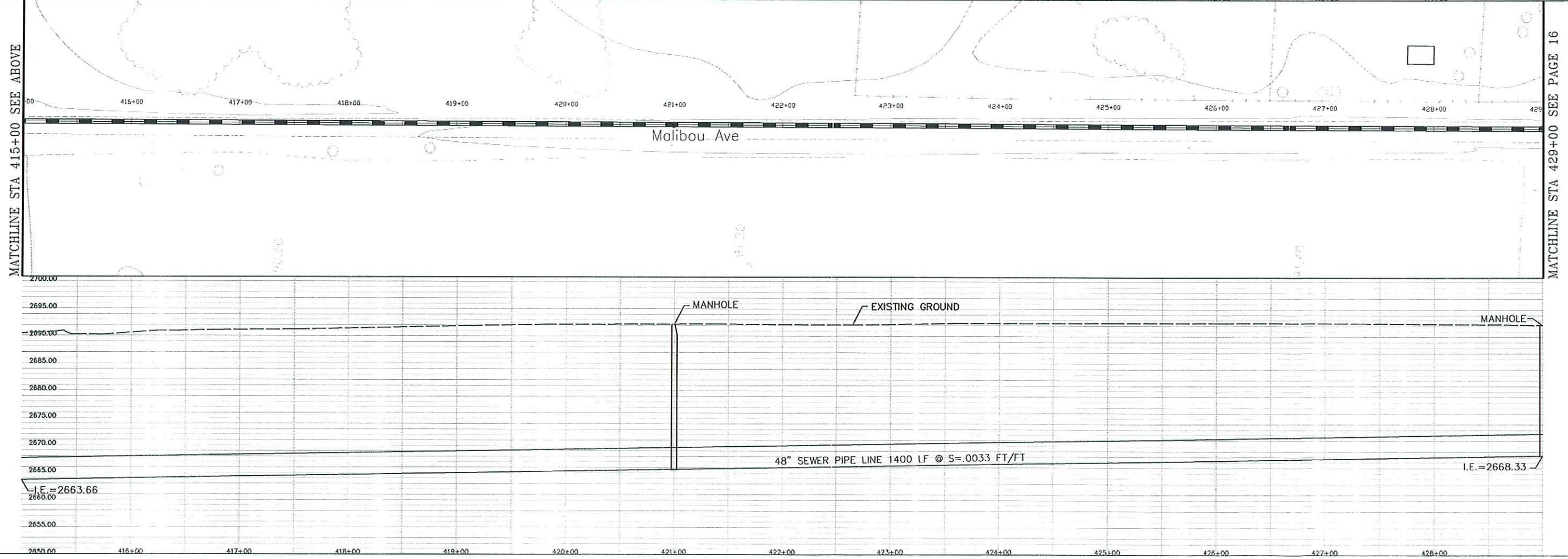
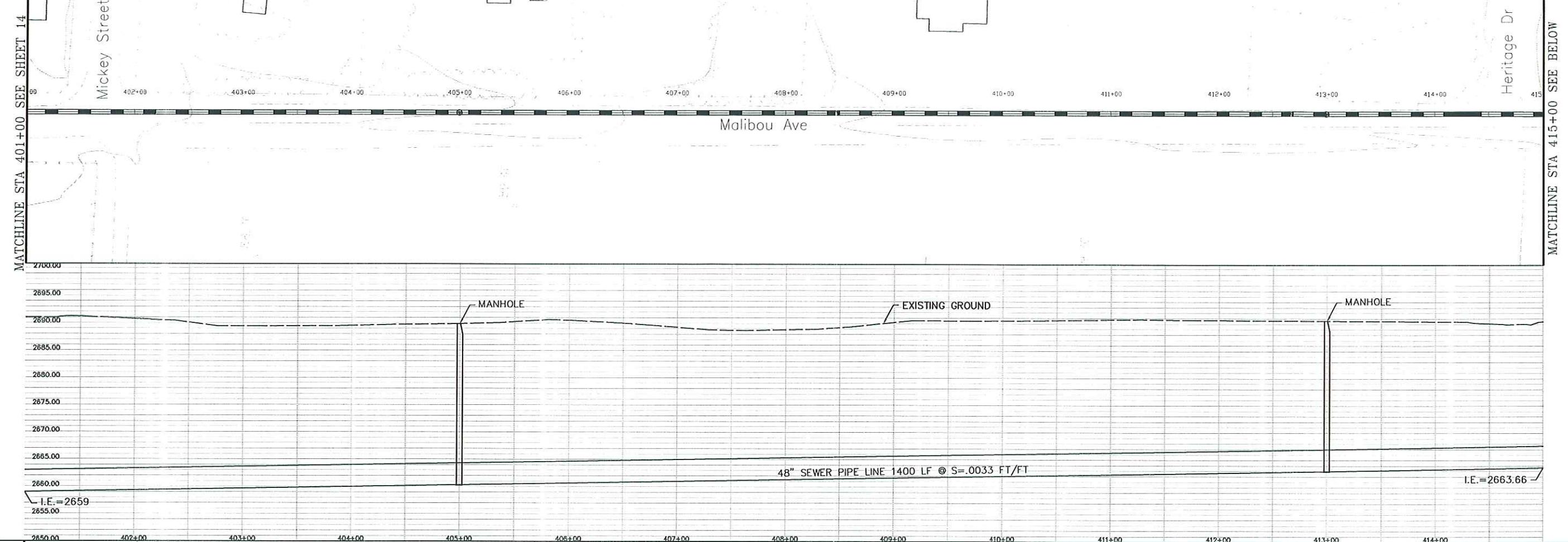
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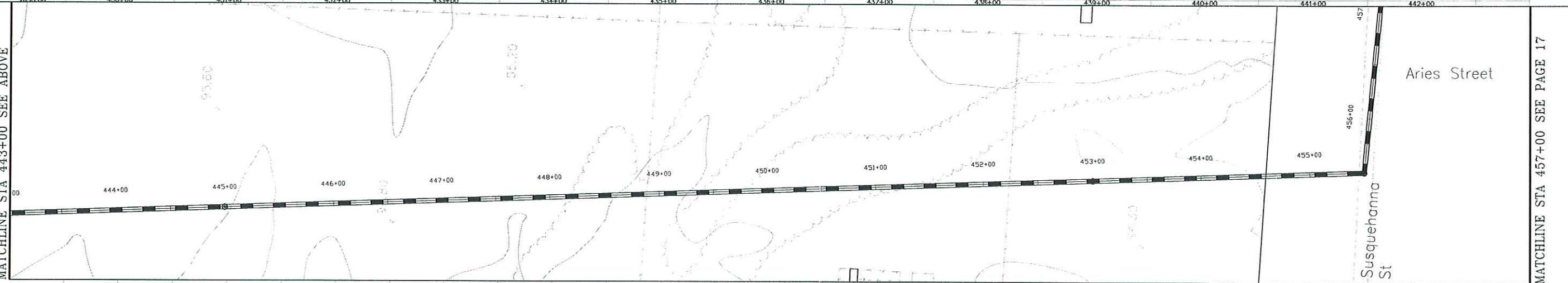
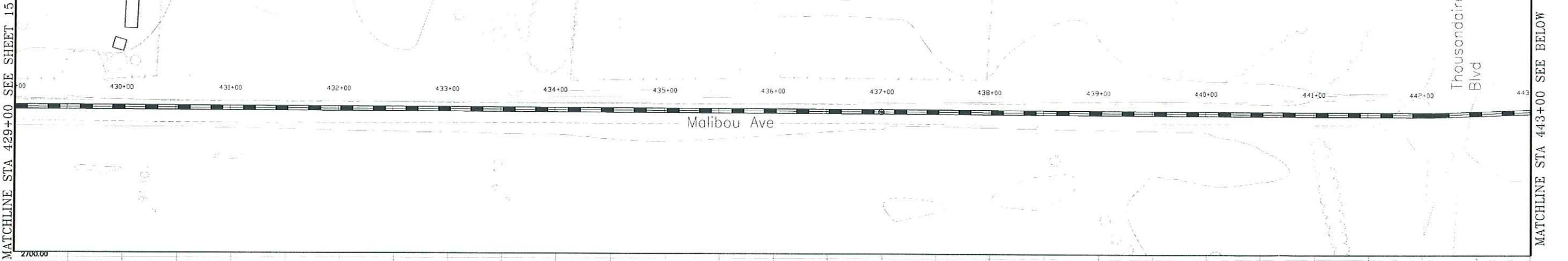
**MANSE RD TRUNKLINE SEWER
TO REGIONAL WWTP**

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7272 E. INDIAN SCHOOL RD
SUITE A20
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

J 263-1100
FILE NAME:
REVISION DATE:
FLOTTING DATE:
AUTOCAD VER:
DUE STAKES CENTER CALL COLLECT

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OF 17





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MANSE RD TRUNKLINE SEWER
TO REGIONAL WWTP



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7272 E. INDIAN SCHOOL RD
SUITE 420
SCOTTSDALE, AZ 85251
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J263-1100
TWO IRISH DADS BEFORE YOU CALL
CALL FOR THE BLUE STATES
BELL STAKES & PAPER
CALL COLLECT

FILE NAME:
REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:
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OF 17

NYE COUNTY, NEVADA
WASTEWATER TREATMENT &
TRUNKLINE ALTERNATIVES STUDY

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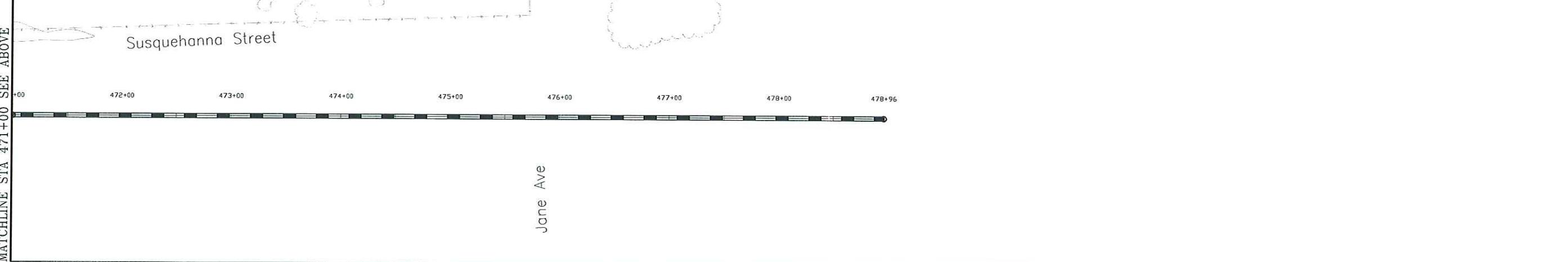
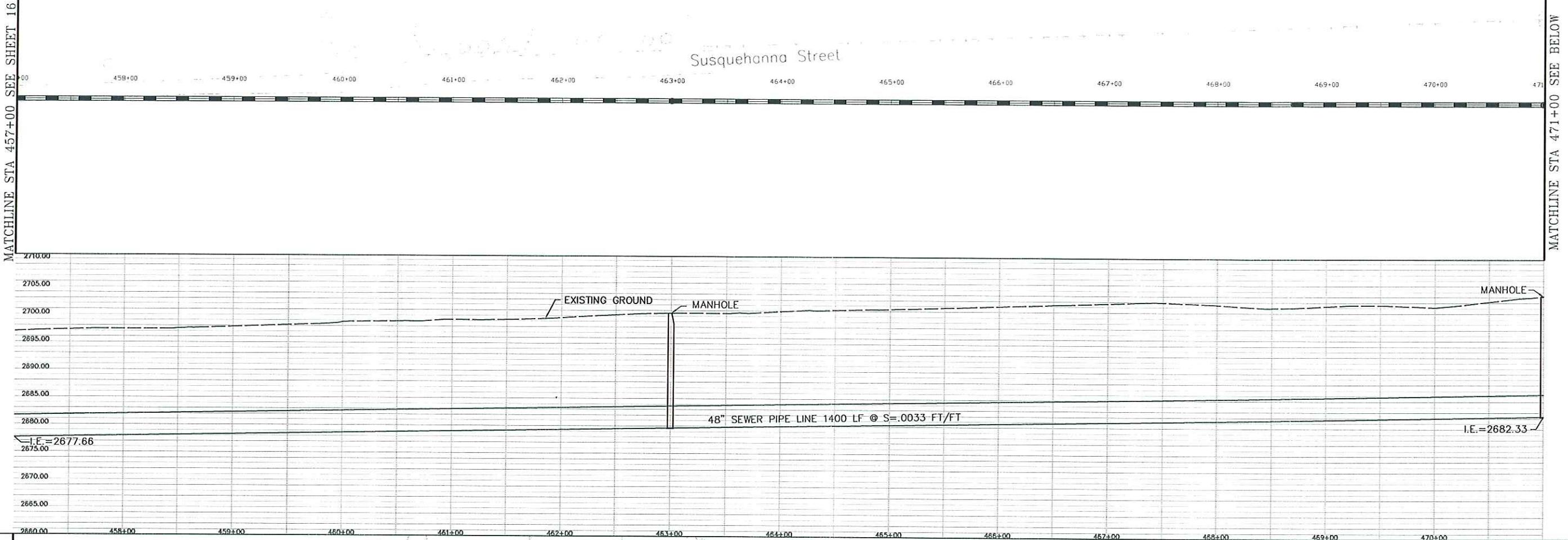
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| Checked By: | DJ |
| No. | Date |
| DESCRIPTION | |
| REVISIONS | |

**MANSE RD TRUNKLINE SEWER
TO REGIONAL WWTP**

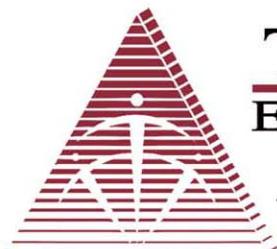
**TRI-CORE
ENGINEERING**
7272 N. HIGH SCHOOL RD.
SUITE 420
SCOTTSDALE, AZ 85251
PHONE (480) 346-3200
FAX (480) 346-3201

J263-1100
TWO PAGING DATE BEFORE FOLDING
CALL FOR THE BLUE STAMPS
ELLE STAMPS CENTER
COLLECT

FILE NAME:
REVISION DATE:
PLOTTING DATE:
AUTOCAD VER:
SHT. OF 17
OF 17



FILE NAME:
REVISION DATE:
PLOTTING DATE:
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8840 East Chaparral Road, Suite 150
Scottsdale, Arizona 85250
Tel: (480) 346-3200 Fax: (480) 346-3201