

**REMOVAL NOTES**

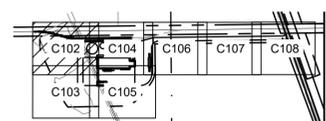
- SEE SHEET C101 FOR GENERAL NOTES.
- ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STATE OF FLORIDA REGULATIONS AND STANDARDS.
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- ALL ELECTRICAL POLE AND LIGHT REMOVAL SHALL BE COORDINATED WITH THE OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO DEMOLITION.

**LEGEND**

- EXISTING PROPERTY LINE
- - - EXISTING/ PROPOSED PROPERTY LINE
- - - EXISTING/ PROPOSED EASEMENT
- - - EXISTING SECTION LINE
- - - EXISTING WETLAND
- - - EXISTING OVERHEAD ELECTRIC
- ⊗ EXISTING POWER POLE
- ⊗ EXISTING POWER POLE TO BE REMOVED
- EXISTING TRACK
- 185- EXISTING MAJOR CONTOUR
- 186- EXISTING MINOR CONTOUR
- ▨ EXISTING GRAVEL PAVEMENT
- ▨ GRAVEL PAVEMENT TO BE REMOVED
- 186- DESIGN CONTOUR BY MOORE BASS
- ⊗ X X X FUTURE STORM DRAINAGE DESIGN BY MOORE BASS
- X X X EXISTING TRACK TO BE REMOVED

EXISTING TEST WELL (NOT SURVEYED) TO BE FIELD VERIFIED AND ABANDONED IN PLACE. CONTRACTOR SHALL ENSURE ALL APPROPRIATE REGULATORY REQUIREMENTS ARE MET FOR CAPPING/ABANDONMENT OF EXISTING TEST WELL

PROPOSED IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY



**2**  
C102  
**KEY PLAN**

**ISSUED FOR CONSTRUCTION**

**VAA, LLC**  
2300 Berkshire Lane N, Suite 200  
Plymouth, MN 55441

763.559.9100  
www.vaaeng.com  
Project # 230384

CLIENT:

**GREYSTONE CONSTRUCTION**

YOUR VISION. OUR TEAM. GREAT PROJECTS.  
Phone: 888-742-6837  
Email: info@greystoneconstruction.com  
Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 01/04/2024 | ADDENDUM 1              | RCQ |
| D  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| E  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| F  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

CERTIFICATION: This item has been digitally signed and sealed by Andrew R. LaPalme. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Reason: Digitally Signed by Andrew LaPalme  
Date: 2025.05.09 14:34:29-05'00'

ANDREW R. LAPALME, PE  
Registration No. 92212

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|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**EXISTING CONDITIONS AND REMOVALS PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C102 |
| SCALE:<br>AS NOTED    |                     |

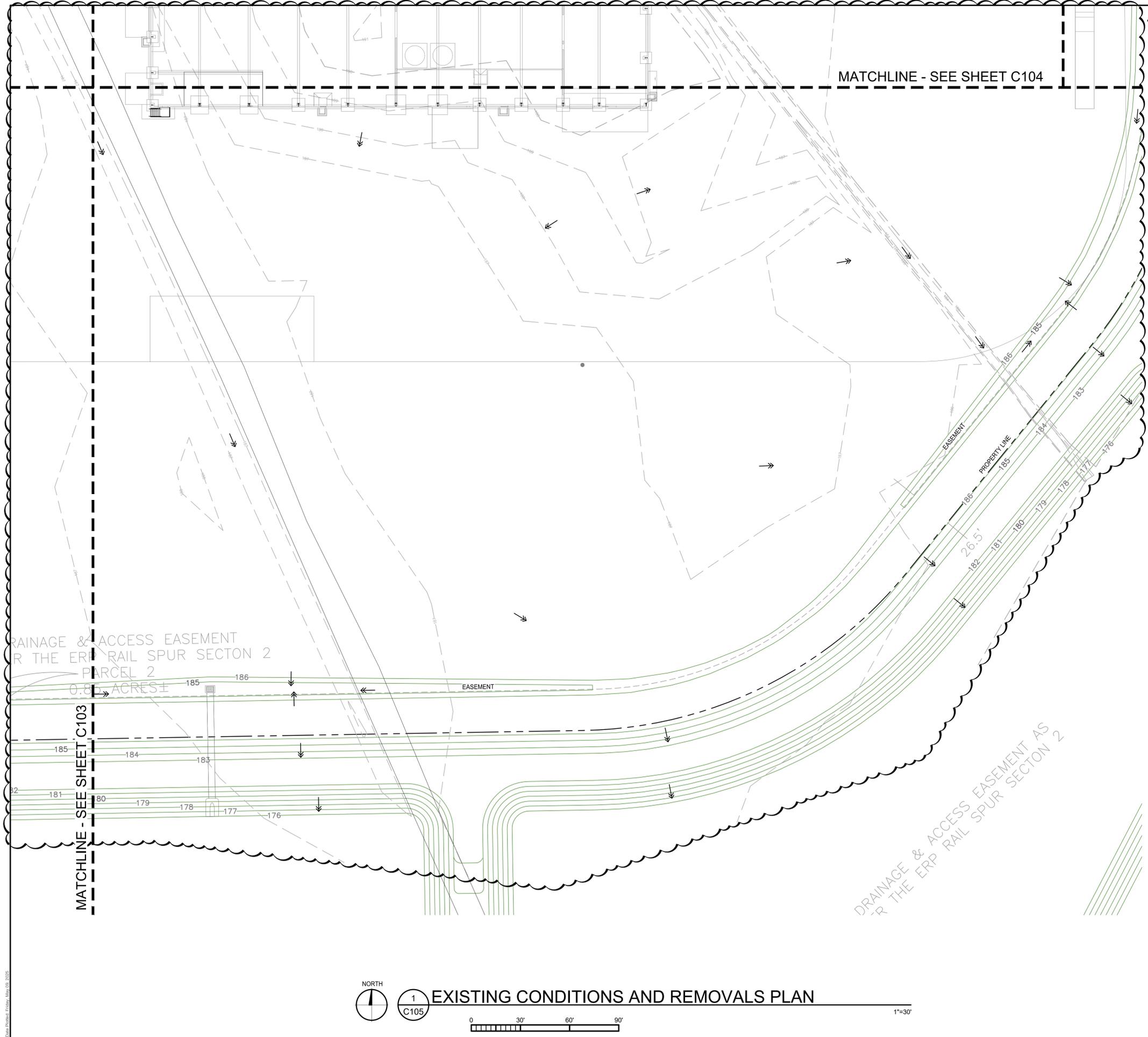
**1**  
C102  
**EXISTING CONDITIONS AND REMOVALS PLAN**

1"=30'

DATE PLOTTED: Friday, May 29, 2025







**REMOVAL NOTES**

- SEE SHEET C101 FOR GENERAL NOTES.
- ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STATE OF FLORIDA REGULATIONS AND STANDARDS.
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**LEGEND**

- EXISTING PROPERTY LINE
- - - - EXISTING/ PROPOSED PROPERTY LINE
- - - - EXISTING/ PROPOSED EASEMENT
- - - - EXISTING SECTION LINE
- - - - EXISTING WETLAND
- - - - EXISTING OVERHEAD ELECTRIC
- ⊗ EXISTING POWER POLE
- ⊗ EXISTING POWER POLE TO BE REMOVED
- EXISTING TRACK
- - - - EXISTING MAJOR CONTOUR
- - - - EXISTING MINOR CONTOUR
- ▨ EXISTING GRAVEL PAVEMENT
- ▨ GRVEL PAVEMENT TO BE REMOVED
- - - - 186 DESIGN CONTOUR BY MOORE BASS
- ⊕ FUTURE STORM DRAINAGE DESIGN BY MOORE BASS
- ⊗ EXISTING TRACK TO BE REMOVED

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PROJECT:

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LAKE CITY, FL**

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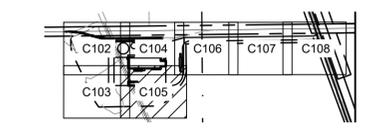
Reason:  
Digitally Signed by Andrew LaPalme  
Date: 2025.05.09 14:36:02-05'00'

ANDREW R. LAPALME, PE  
Registration No. 92212

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**2** KEY PLAN  
C105

**ISSUED FOR CONSTRUCTION**

NORTH

**1** C105 **EXISTING CONDITIONS AND REMOVALS PLAN**

0 30' 60' 90'

1"=30'

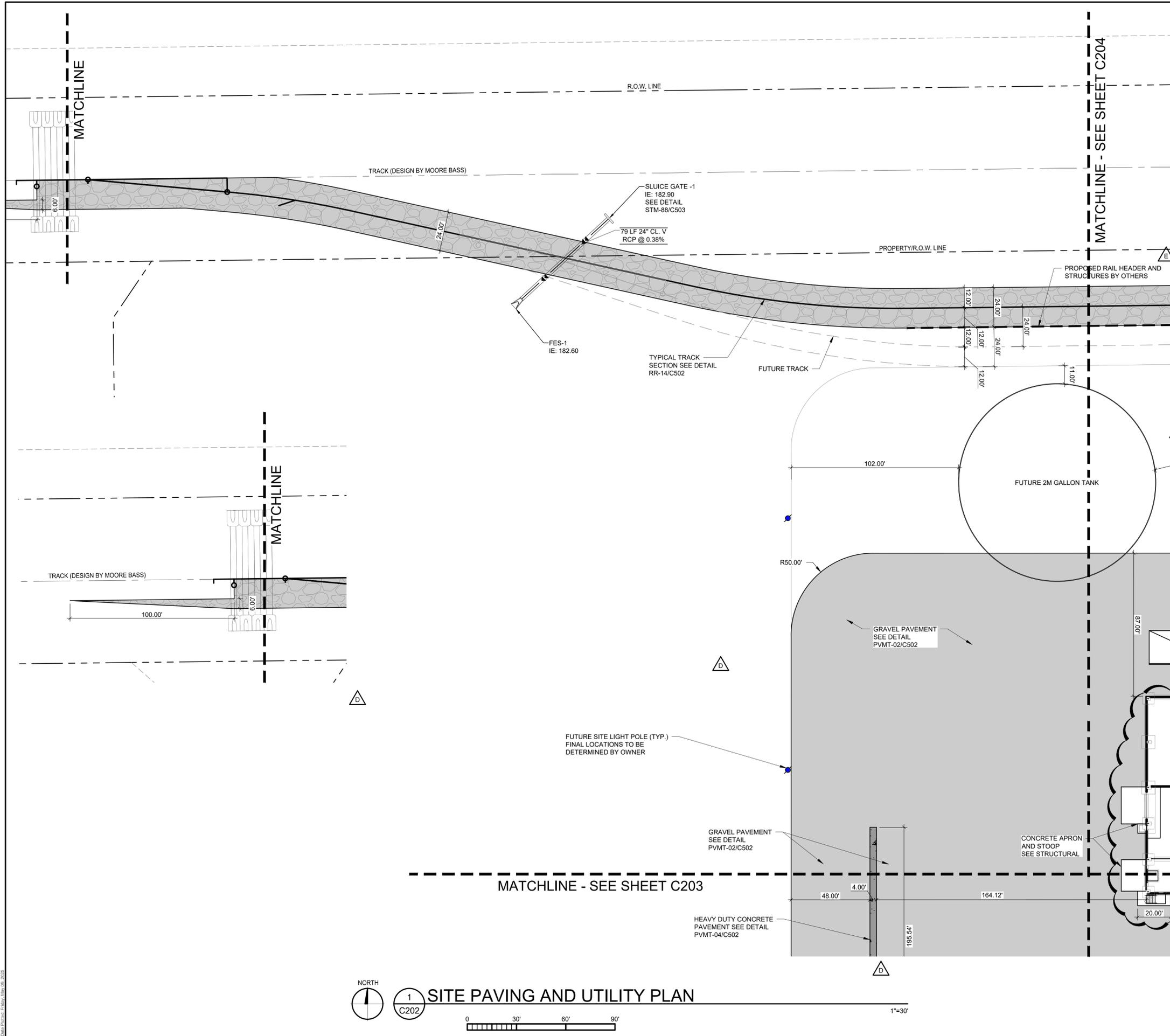
Date Plotted: Friday, May 29, 2025











**UTILITY NOTES**

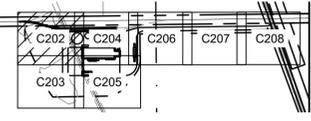
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- PROVIDE THE FOLLOWING MINIMUM COVER OVER THE TOP OF PIPE AS FOLLOWS:
  - A. 3' OVER WATERMAIN
  - B. 3' OVER SANITARY SEWER
  - C. 1.5' OVER STORM SEWER

**LEGEND**

- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- PROPOSED FORCE MAIN
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED TELECOM LINE
- PROPOSED GAS LINE (BY CITY)
- PROPOSED TELECOM LINE (BY COUNTY)
- PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- PROPOSED WATER LINE (BY CITY)
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUICE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE (BY POWER AND LIGHT)
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS

CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION

SEE SPECIFICATIONS FOR THRUST BLOCKING REQUIREMENTS



**2** KEY PLAN  
C202

**ISSUED FOR CONSTRUCTION**

**VAA, LLC**  
2300 Berkshire Lane N, Suite 200  
Plymouth, MN 55441

763.559.9100  
www.vaaeng.com  
Project # 230384

CLIENT:

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PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
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| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 01/04/2024 | ADDENDUM 1              | RCQ |
| D  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| E  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
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Registration No. 92212

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|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:

**SITE PAVING AND UTILITY PLAN**

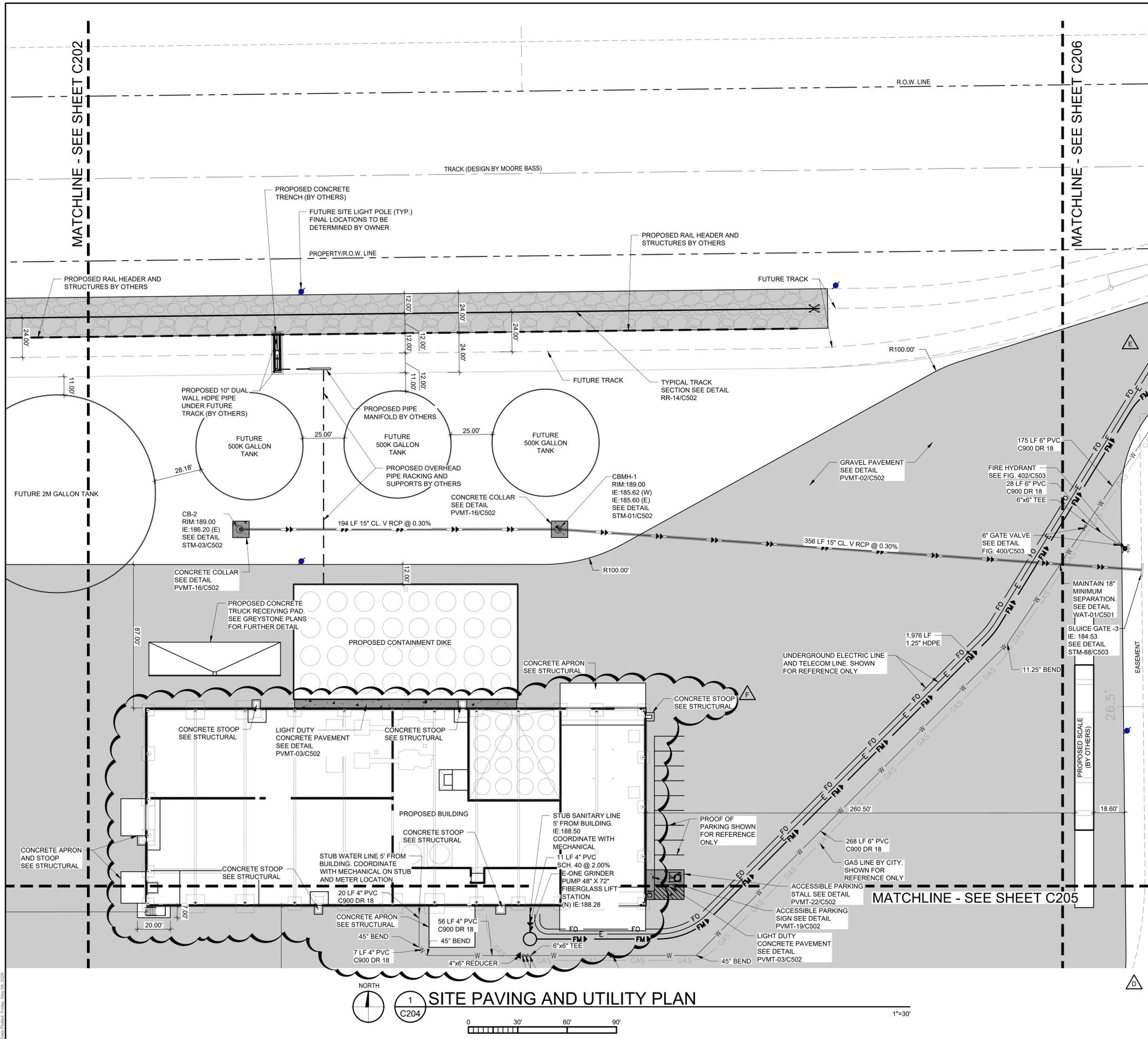
|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C202 |
| SCALE:<br>AS NOTED    |                     |

**1** SITE PAVING AND UTILITY PLAN  
C202

NORTH

Date: Printed Friday, May 29, 2025

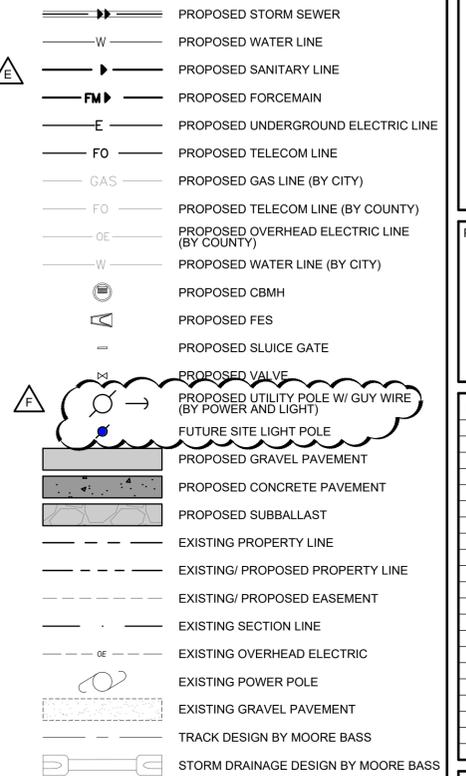




**UTILITY NOTES**

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- PROVIDE THE FOLLOWING MINIMUM COVER OVER THE TOP OF PIPE AS FOLLOWS:
  - A. 3' OVER WATERMAIN
  - B. 3' OVER SANITARY SEWER
  - C. 1.5' OVER STORM SEWER

**LEGEND**



**VAA**  
 VAA, LLC  
 2300 Berkshire Lane N, Suite 200  
 Plymouth, MN 55441  
 763.559.9100  
 www.vaaeng.com  
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 Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
 LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
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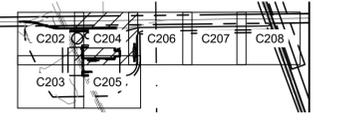
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| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**SITE PAVING AND UTILITY PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C204 |
| SCALE:<br>AS NOTED    |                     |

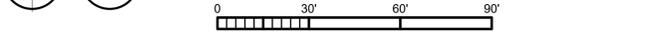
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SEE SPECIFICATIONS FOR THRUST BLOCKING REQUIREMENTS

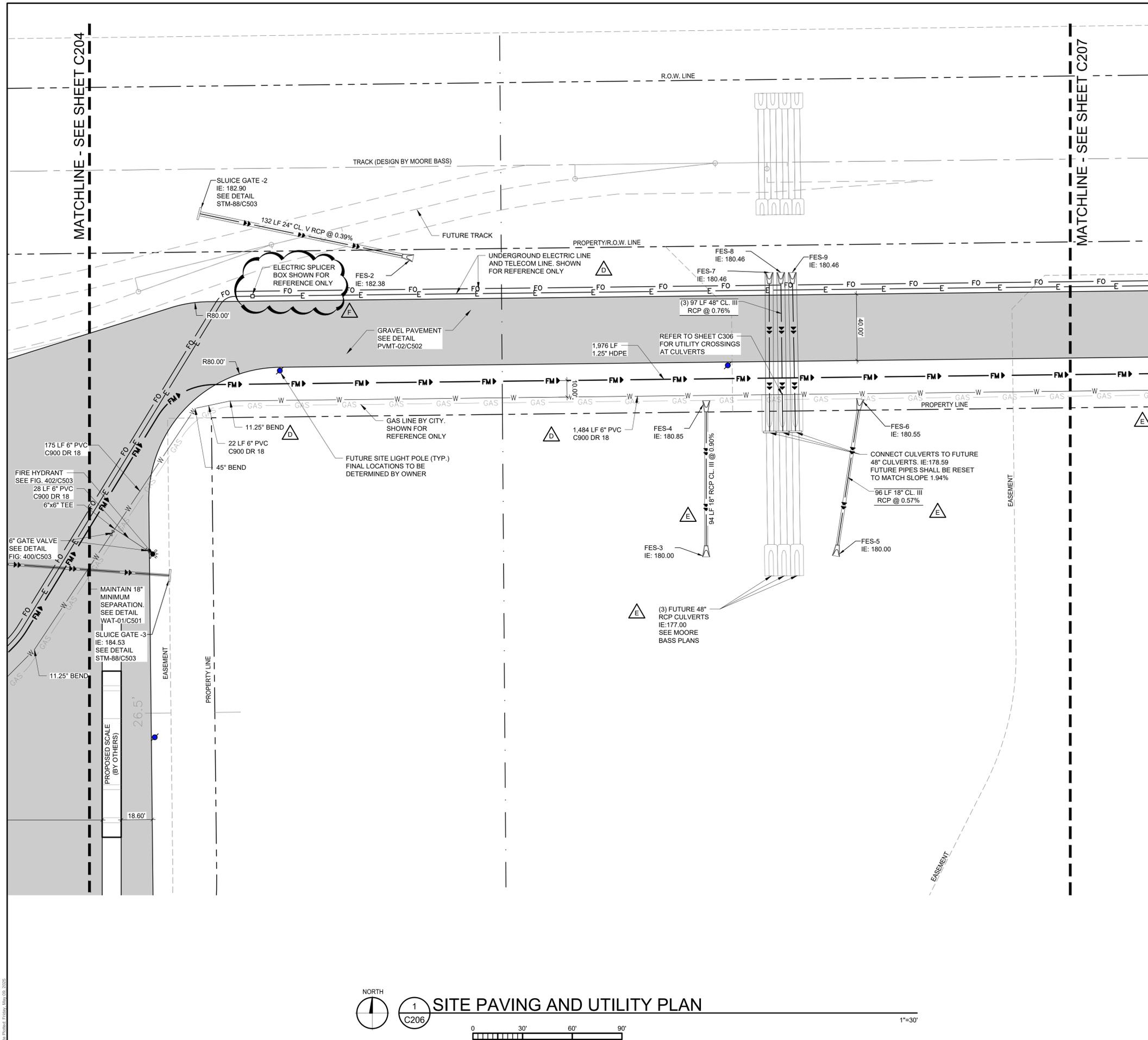


**ISSUED FOR CONSTRUCTION**

**1 SITE PAVING AND UTILITY PLAN**







**UTILITY NOTES**

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**LEGEND**

- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- PROPOSED FORCE MAIN
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED TELECOM LINE
- PROPOSED GAS LINE (BY CITY)
- PROPOSED GAS LINE (BY COUNTY)
- PROPOSED OVERHEAD ELECTRIC LINE (BY CITY)
- PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
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- PROPOSED SLUDGE GATE
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- PROPOSED UTILITY POLE W/ GUY WIRE (BY POWER AND LIGHT)
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
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- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
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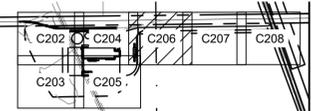
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|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**SITE PAVING AND UTILITY PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C206 |
| SCALE:<br>AS NOTED    |                     |

CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION

SEE SPECIFICATIONS FOR THRUST BLOCKING REQUIREMENTS



**2** KEY PLAN  
 C206

**ISSUED FOR CONSTRUCTION**

NORTH

**1** SITE PAVING AND UTILITY PLAN  
 C206

1"=30'

Drawn: Andrew R. LaPalme, PE, 10/19/2023



**UTILITY NOTES**

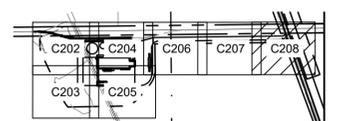
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  - 3' OVER WATERMAIN
  - 3' OVER SANITARY SEWER
  - 1.5' OVER STORM SEWER

**LEGEND**

- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER
- PROPOSED FORCE MAIN
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED TELECOM LINE
- PROPOSED GAS LINE (BY CITY)
- PROPOSED TELECOM LINE (BY COUNTY)
- PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- PROPOSED WATER LINE (BY CITY)
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUICE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE (BY POWER AND LIGHT)
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
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- EXISTING SECTION LINE
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- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS

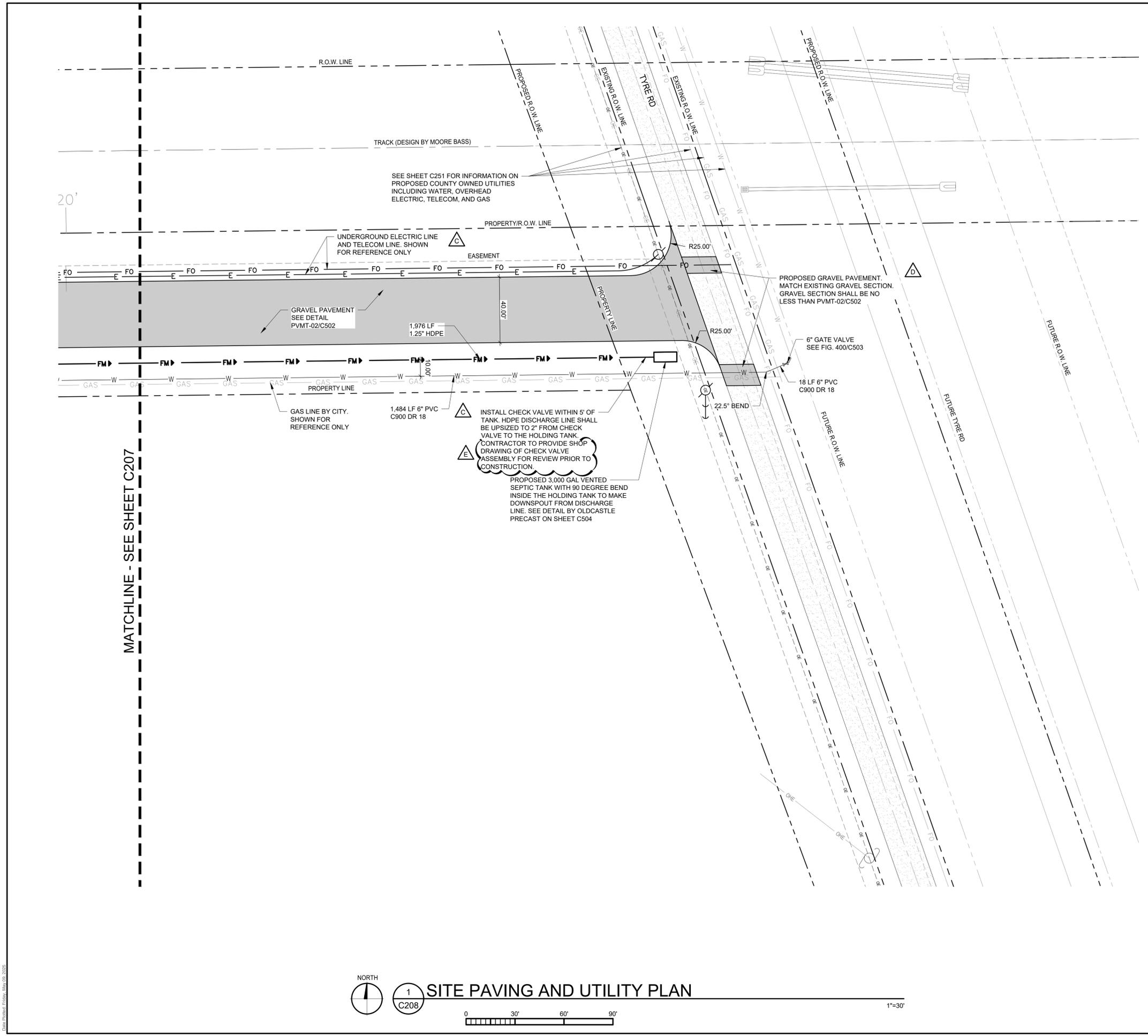
CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION

SEE SPECIFICATIONS FOR THRUST BLOCKING REQUIREMENTS

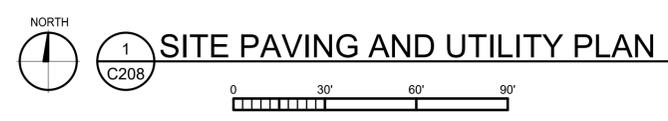


**2** KEY PLAN  
C208

**ISSUED FOR CONSTRUCTION**



MATCHLINE - SEE SHEET C207



**VAA**  
 VAA, LLC  
 2300 Berkshire Lane N, Suite 200  
 Plymouth, MN 55441  
 763.559.9100  
 www.vaaeng.com  
 Project # 230384

CLIENT:

**GREYSTONE CONSTRUCTION**  
 YOUR VISION. OUR TEAM. GREAT PROJECTS.  
 Phone: 888-742-6837  
 Email: info@greystoneconstruction.com  
 Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
 LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| D  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| E  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

CERTIFICATION:

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ANDREW R. LAPALME, PE  
 Registration No. 92212

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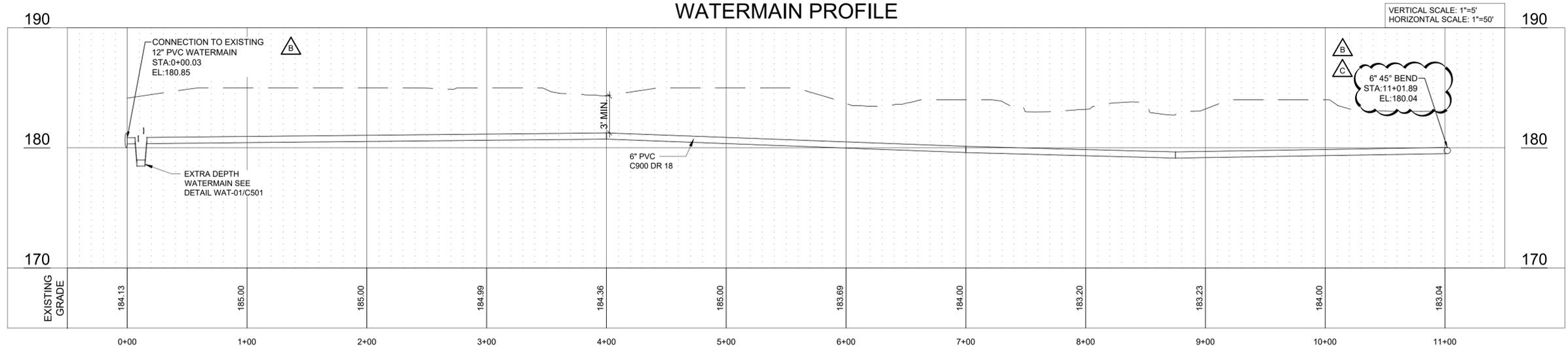
|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**SITE PAVING AND UTILITY PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C208 |
| SCALE:<br>AS NOTED    |                     |



# WATERMAIN PROFILE



VERTICAL SCALE: 1"=5'  
HORIZONTAL SCALE: 1"=50'



VAA, LLC  
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Plymouth, MN 55441  
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Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
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| C  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

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Registration No. 92212

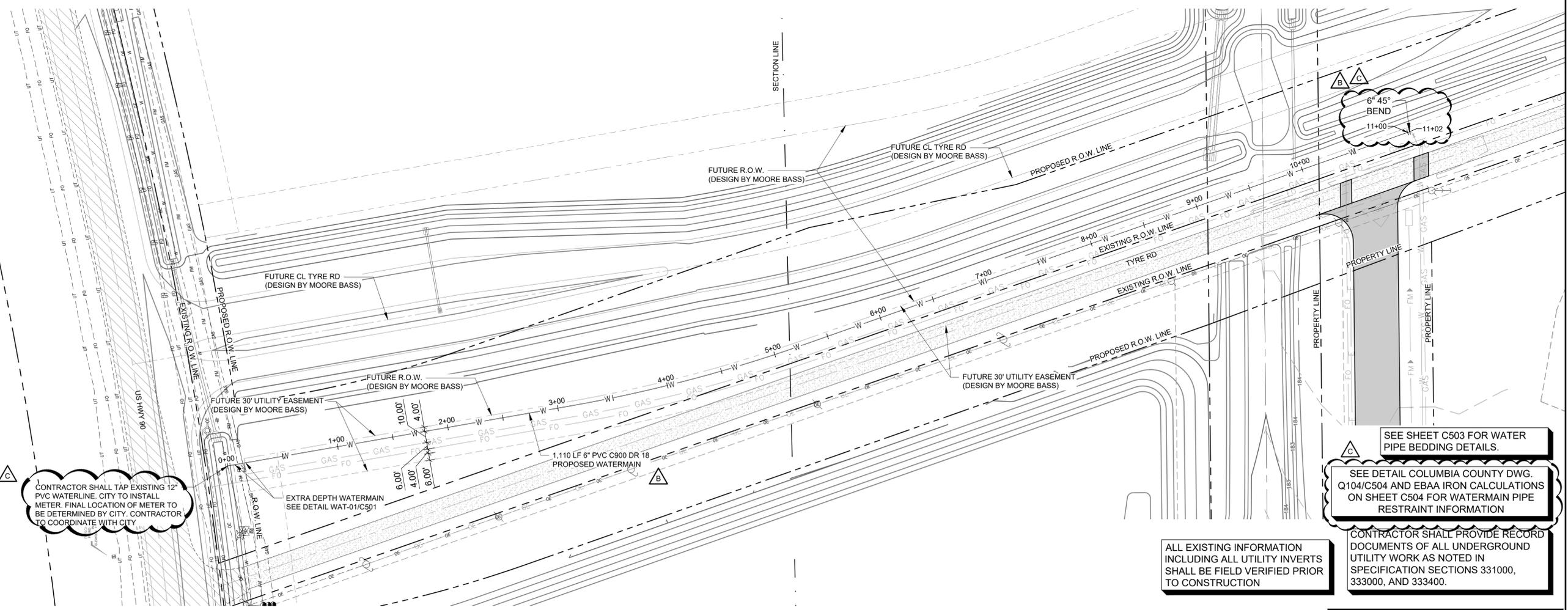
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|                     |                  |
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| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:

**WATERMAIN PLAN AND PROFILE**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C252 |
| SCALE:<br>AS NOTED    |                     |



CONTRACTOR SHALL TAP EXISTING 12" PVC WATERLINE. CITY TO INSTALL METER. FINAL LOCATION OF METER TO BE DETERMINED BY CITY. CONTRACTOR TO COORDINATE WITH CITY.

SEE SHEET C503 FOR WATER PIPE BEDDING DETAILS.

SEE DETAIL COLUMBIA COUNTY DWG. Q104/C504 AND EBAA IRON CALCULATIONS ON SHEET C504 FOR WATERMAIN PIPE RESTRAINT INFORMATION

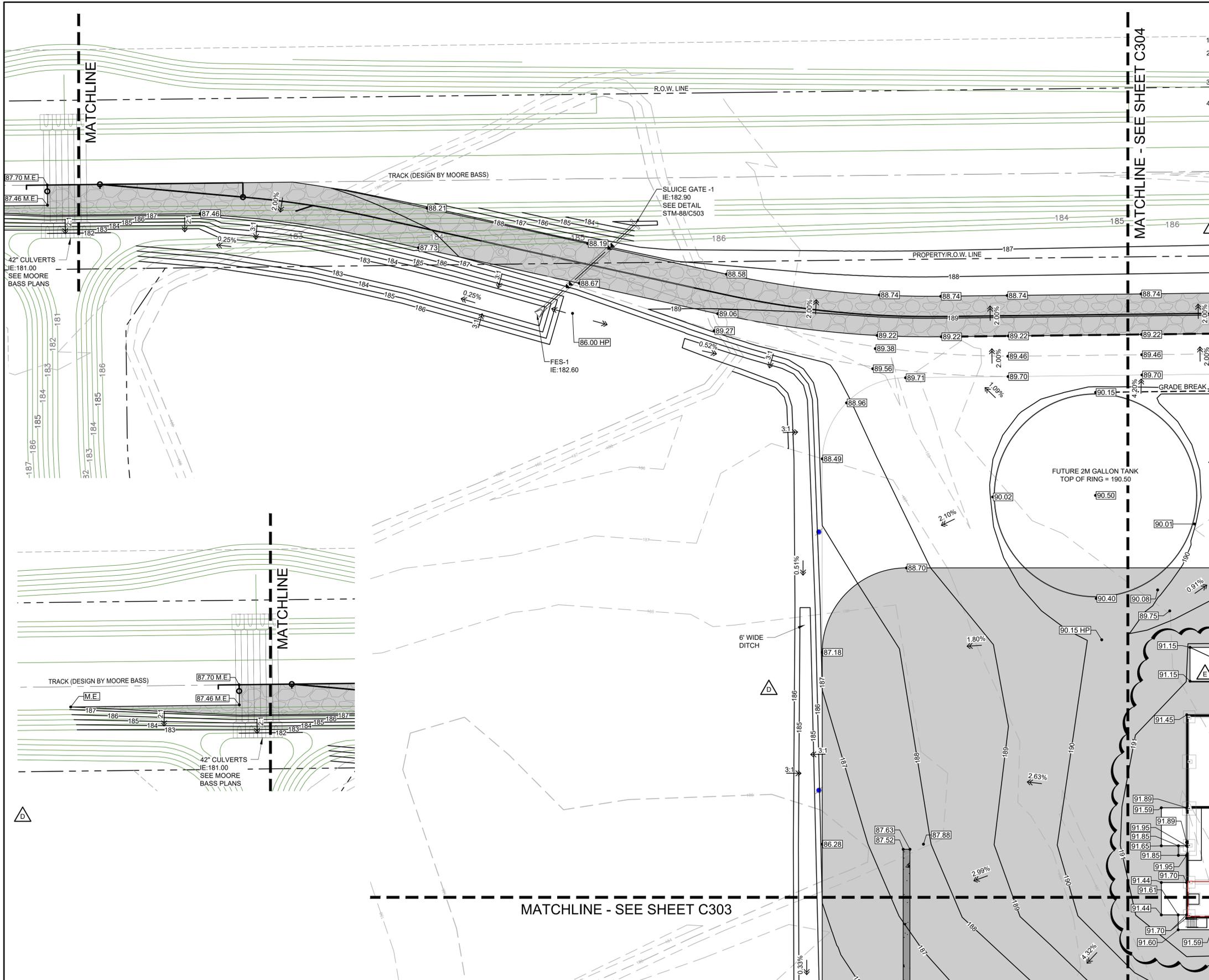
ALL EXISTING INFORMATION INCLUDING ALL UTILITY INVERTS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION

CONTRACTOR SHALL PROVIDE RECORD DOCUMENTS OF ALL UNDERGROUND UTILITY WORK AS NOTED IN SPECIFICATION SECTIONS 331000, 333000, AND 333400.

**ISSUED FOR CONSTRUCTION**







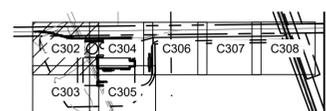
**GRADING NOTES**

1. SEE SHEET C301 FOR GENERAL NOTES.
2. PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE, PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS OTHERWISE SPECIFIED.
3. SEE SWPPP SHEET C601 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
4. SEE SHEETS C401-C408 FOR ADDITIONAL LOCATIONS OF EROSION AND SEDIMENT CONTROL ITEMS. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL ITEMS PRIOR TO CONSTRUCTION.

**LEGEND**

- 190 — PROPOSED CONTOUR
- W — PROPOSED WATER LINE
- S — PROPOSED SANITARY LINE
- FM — PROPOSED FORCEMAIN
- E — PROPOSED UNDERGROUND ELECTRIC LINE
- FO — PROPOSED TELECOM LINE
- GAS — PROPOSED GAS LINE (BY CITY)
- FO — PROPOSED TELECOM LINE (BY COUNTY)
- OE — PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- W — PROPOSED WATER LINE (BY CITY)
- PROPOSED GRADE BREAK
- 490.50 PROPOSED SPOT ELEVATION
- 490.50 M.E. MATCH EXISTING SPOT ELEVATION
- ← DENOTES SURFACE DRAINAGE
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUDGE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE
- PROPOSED UTILITY POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- +85 EXISTING MAJOR CONTOUR
- +86 EXISTING MINOR CONTOUR
- OE EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- +86 DESIGN CONTOUR BY MOORE BASS

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2 KEY PLAN  
C302



VAA, LLC  
2300 Berkshire Lane N, Suite 200  
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www.vaaeng.com  
Project # 230384

CLIENT:

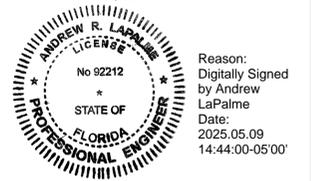


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Website: GreystoneConstruction.com

PROJECT:  
**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

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| E  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| F  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

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ANDREW R. LAPALME, PE  
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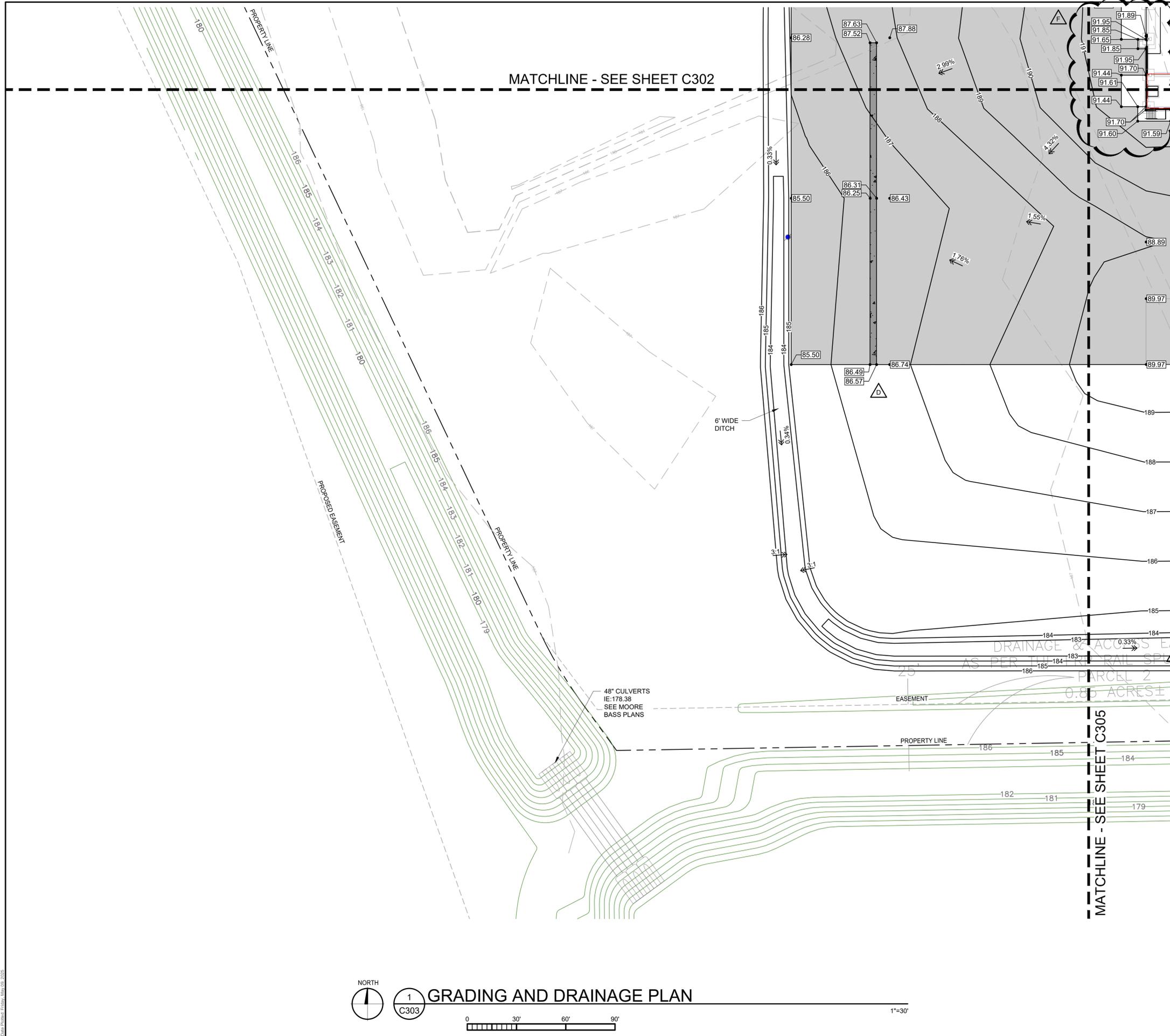
|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**GRADING AND DRAINAGE PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C302 |
| SCALE:<br>AS NOTED    |                     |

1 GRADING AND DRAINAGE PLAN  
1"=30'

**ISSUED FOR CONSTRUCTION**



**GRADING NOTES**

- SEE SHEET C301 FOR GENERAL NOTES.
- PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE, PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS OTHERWISE SPECIFIED.
- SEE SWPPP SHEET C601 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
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**LEGEND**

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- FM — PROPOSED FORCEMAIN
- E — PROPOSED UNDERGROUND ELECTRIC LINE
- FO — PROPOSED TELECOM LINE
- GAS — PROPOSED GAS LINE (BY CITY)
- FO — PROPOSED TELECOM LINE (BY COUNTY)
- OE — PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- W — PROPOSED WATER LINE (BY CITY)
- — PROPOSED GRADE BREAK
- 490.50 PROPOSED SPOT ELEVATION
- 490.50 M.E. MATCH EXISTING SPOT ELEVATION
- ← DENOTES SURFACE DRAINAGE
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUICE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE
- PROPOSED FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- +85 EXISTING MAJOR CONTOUR
- +86 EXISTING MINOR CONTOUR
- OE EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- DESIGN CONTOUR BY MOORE BASS



**VAA, LLC**  
 2300 Berkshire Lane N, Suite 200  
 Plymouth, MN 55441  
 763.559.9100  
 www.vaaeng.com  
 Project # 230384

CLIENT:



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 Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
 LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
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| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 01/04/2024 | ADDENDUM 1              | RCQ |
| D  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| E  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| F  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

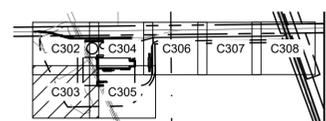
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ANDREW R. LAPALME, PE  
 Registration No. 92212

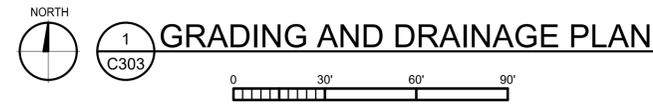
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**ISSUED FOR CONSTRUCTION**

**1 GRADING AND DRAINAGE PLAN**

1"=30'

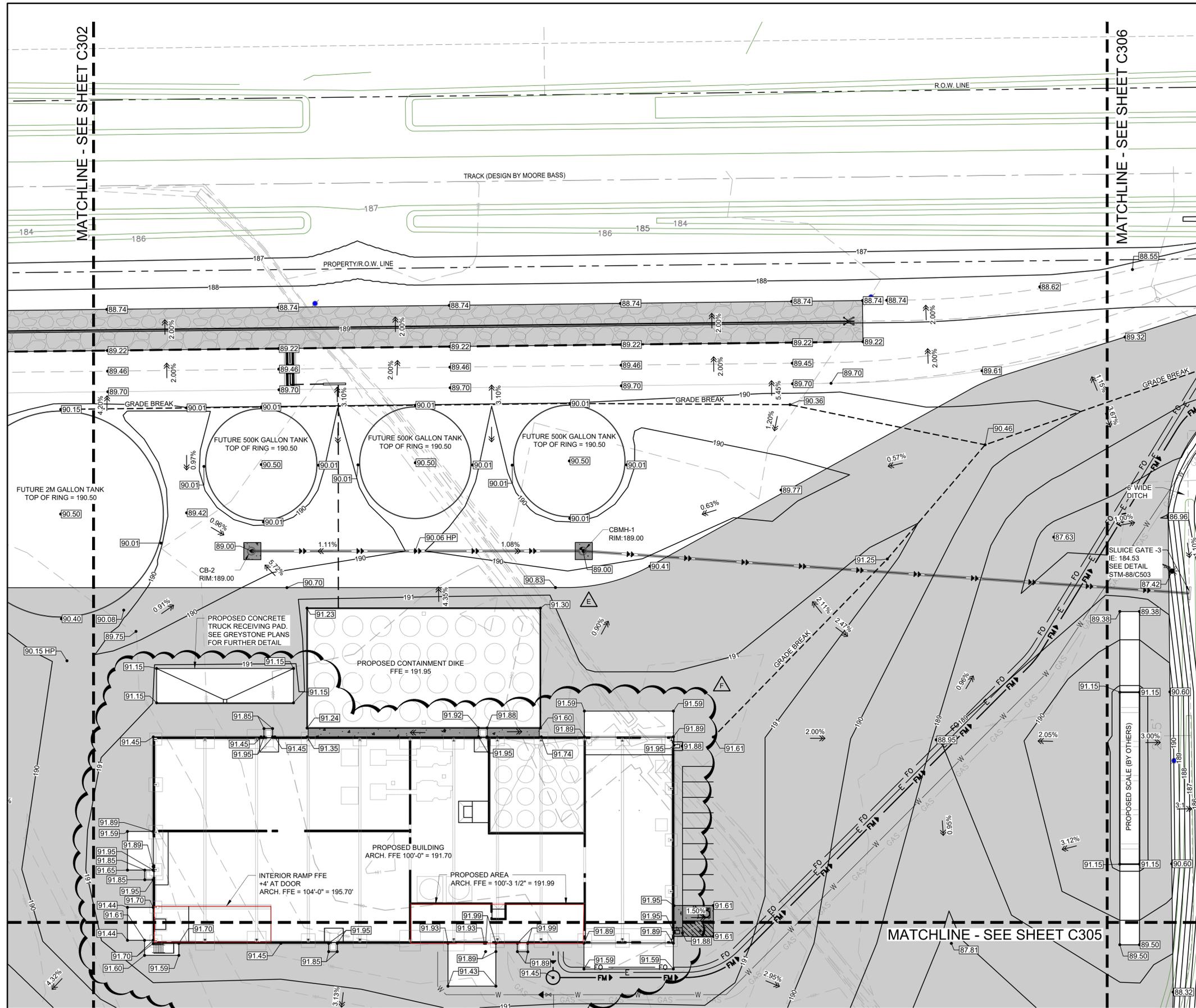


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| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**GRADING AND DRAINAGE PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C303 |
| SCALE:<br>AS NOTED    |                     |



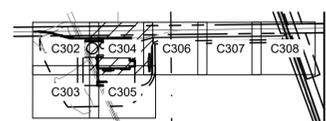
**GRADING NOTES**

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**LEGEND**

- 190 PROPOSED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- FM PROPOSED FORCEMAIN
- E PROPOSED UNDERGROUND ELECTRIC LINE
- FO PROPOSED TELECOM LINE
- GAS PROPOSED GAS LINE (BY CITY)
- FO PROPOSED TELECOM LINE (BY COUNTY)
- OE PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- W PROPOSED WATER LINE (BY CITY)
- PROPOSED GRADE BREAK
- 90.50 PROPOSED SPOT ELEVATION
- 90.50 M.E. MATCH EXISTING SPOT ELEVATION
- ← DENOTES SURFACE DRAINAGE
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUICE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- +85 EXISTING MAJOR CONTOUR
- +86 EXISTING MINOR CONTOUR
- OE EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- +86 DESIGN CONTOUR BY MOORE BASS

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**2** KEY PLAN  
C304

**ISSUED FOR CONSTRUCTION**

**VAA, LLC**  
2300 Berkshire Lane N, Suite 200  
Plymouth, MN 55441

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www.vaaeng.com  
Project # 230384

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PROJECT:

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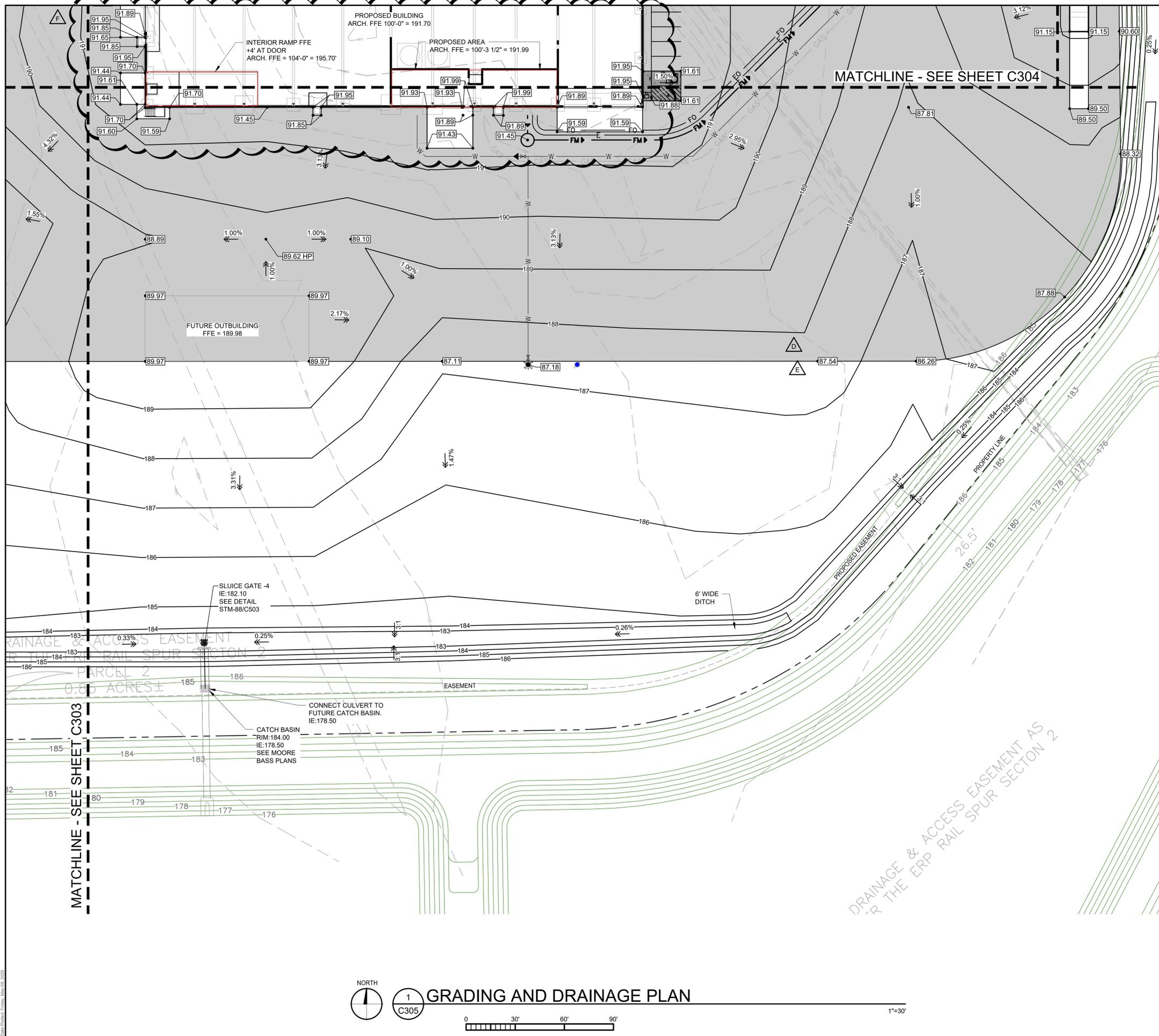
|                     |                  |
|---------------------|------------------|
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| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**GRADING AND DRAINAGE PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C304 |
| SCALE:<br>AS NOTED    |                     |

**1** GRADING AND DRAINAGE PLAN  
C304

1"=30'



**GRADING NOTES**

- SEE SHEET C301 FOR GENERAL NOTES.
- PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE. PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS OTHERWISE SPECIFIED.
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**LEGEND**

- 190 — PROPOSED CONTOUR
- W — PROPOSED WATER LINE
- FM — PROPOSED FORCEMAIN
- E — PROPOSED UNDERGROUND ELECTRIC LINE
- FO — PROPOSED TELECOM LINE
- GAS — PROPOSED GAS LINE (BY CITY)
- FO — PROPOSED TELECOM LINE (BY COUNTY)
- OE — PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- W — PROPOSED WATER LINE (BY CITY)
- PROPOSED GRADE BREAK
- 490.50 PROPOSED SPOT ELEVATION
- 490.50 M.E. MATCH EXISTING SPOT ELEVATION
- ← DENOTES SURFACE DRAINAGE
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUICE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE
- PROPOSED UTILITY POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- +85- EXISTING MAJOR CONTOUR
- +86- EXISTING MINOR CONTOUR
- OE- EXISTING OVERHEAD ELECTRIC
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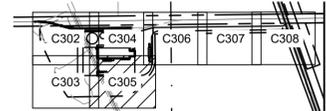
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Reason: Digitally Signed by Andrew LaPalme  
Date: 2025.05.09 14:45:30-05'00'

ANDREW R. LAPALME, PE  
Registration No. 92212

CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION



**2** KEY PLAN  
C305

**ISSUED FOR CONSTRUCTION**

NORTH

**1** GRADING AND DRAINAGE PLAN  
C305

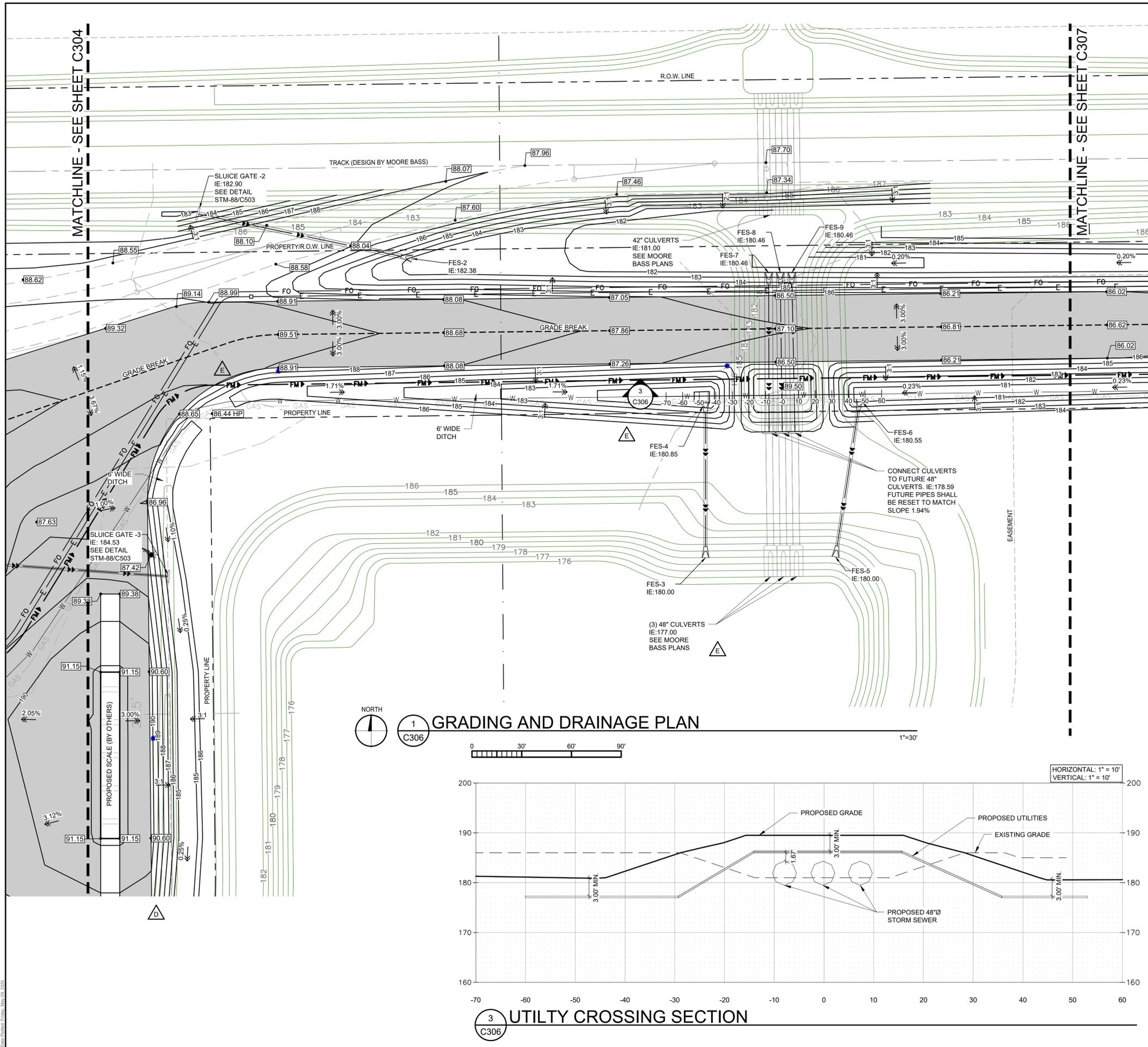
0 30' 60' 90'

1"=30'

|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**GRADING AND DRAINAGE PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C305 |
| SCALE:<br>AS NOTED    |                     |



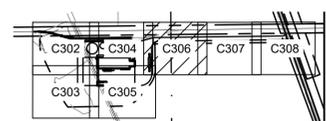
**GRADING NOTES**

- SEE SHEET C301 FOR GENERAL NOTES.
- PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE. PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS OTHERWISE SPECIFIED.
- SEE SWPPP SHEET C801 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
- SEE SHEETS C401-C408 FOR ADDITIONAL LOCATIONS OF EROSION AND SEDIMENT CONTROL ITEMS. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL ITEMS PRIOR TO CONSTRUCTION.

**LEGEND**

- 190 PROPOSED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- FM PROPOSED FORCEMAIN
- E PROPOSED UNDERGROUND ELECTRIC LINE
- FO PROPOSED TELECOM LINE
- GAS PROPOSED GAS LINE (BY CITY)
- FO PROPOSED TELECOM LINE (BY COUNTY)
- OE PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- W PROPOSED WATER LINE (BY CITY)
- PROPOSED GRADE BREAK
- PROPOSED SPOT ELEVATION
- 480.50 M.E. MATCH EXISTING SPOT ELEVATION
- ← DENOTES SURFACE DRAINAGE
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUDGE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- +85 EXISTING MAJOR CONTOUR
- +86 EXISTING MINOR CONTOUR
- OE EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- +86 DESIGN CONTOUR BY MOORE BASS

CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION



**2 KEY PLAN**

**ISSUED FOR CONSTRUCTION**

**VAA, LLC**  
2300 Berkshire Lane N, Suite 200  
Plymouth, MN 55441

763.559.9100  
www.vaaeng.com  
Project # 230384

CLIENT:

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YOUR VISION. OUR TEAM. GREAT PROJECTS.  
Phone: 888-742-6837  
Email: info@greystoneconstruction.com  
Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 01/04/2024 | ADDENDUM 1              | RCQ |
| D  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| E  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| F  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

CERTIFICATION:

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Reason:  
Digitally Signed by Andrew LaPalme  
Date: 2025.05.09 14:46:03-05'00'

ANDREW R. LAPALME, PE  
Registration No. 92212

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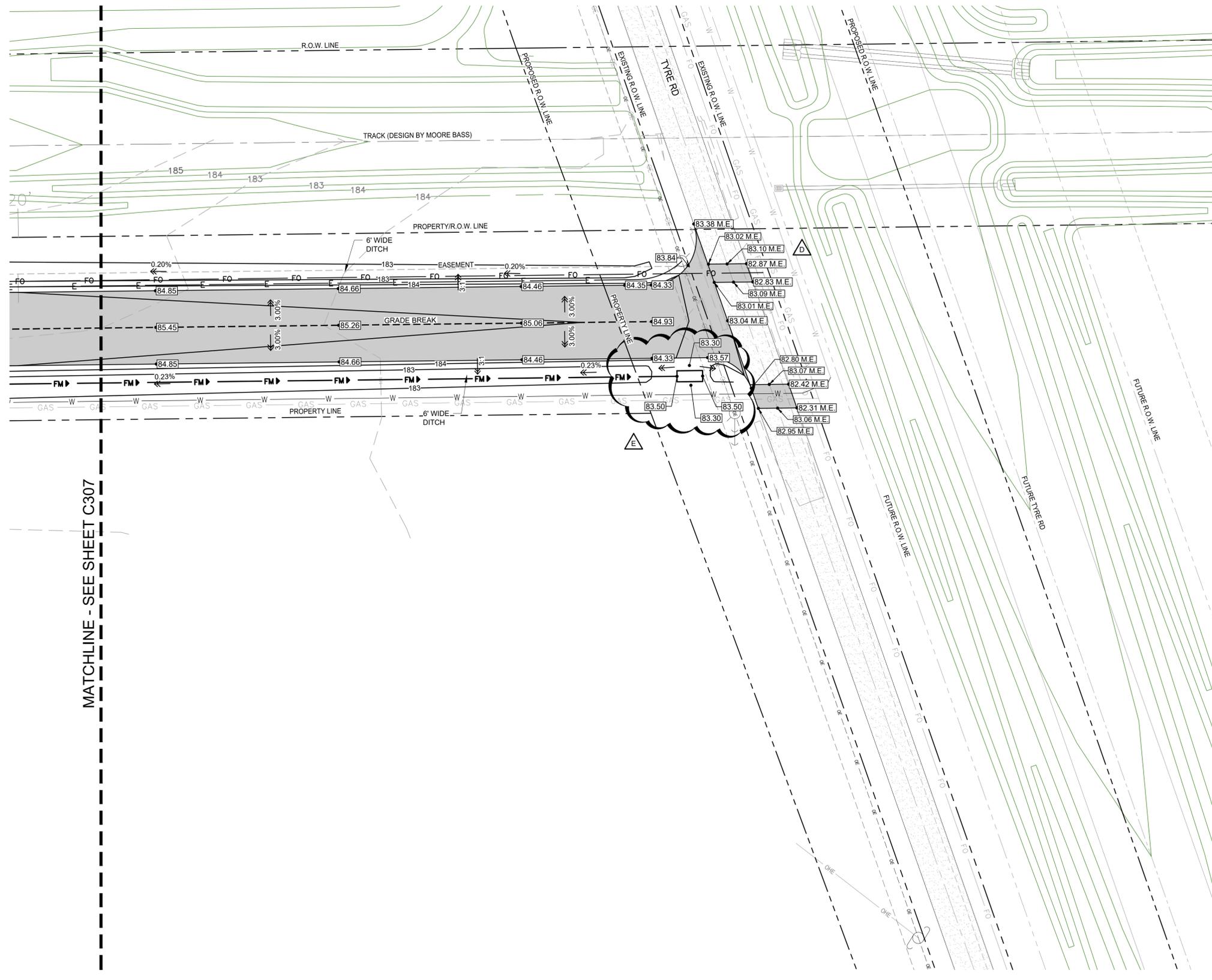
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|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:

**GRADING AND DRAINAGE PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C306 |
| SCALE:<br>AS NOTED    |                     |





MATCHLINE - SEE SHEET C307

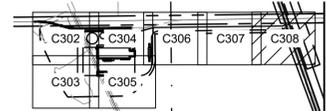
**GRADING NOTES**

- SEE SHEET C301 FOR GENERAL NOTES.
- PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE. PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS OTHERWISE SPECIFIED.
- SEE SWPPP SHEET C801 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
- SEE SHEETS C401-C408 FOR ADDITIONAL LOCATIONS OF EROSION AND SEDIMENT CONTROL ITEMS. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL ITEMS PRIOR TO CONSTRUCTION.

**LEGEND**

- 190 PROPOSED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- FM PROPOSED FORCEMAIN
- E PROPOSED UNDERGROUND ELECTRIC LINE
- FO PROPOSED TELECOM LINE
- GAS PROPOSED GAS LINE (BY CITY)
- FO PROPOSED TELECOM LINE (BY COUNTY)
- OE PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
- W PROPOSED WATER LINE (BY CITY)
- PROPOSED GRADE BREAK
- 90.50 PROPOSED SPOT ELEVATION
- 90.50 M.E. MATCH EXISTING SPOT ELEVATION
- ← DENOTES SURFACE DRAINAGE
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED SLUICE GATE
- PROPOSED VALVE
- PROPOSED UTILITY POLE W/ GUY WIRE
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- +85 EXISTING MAJOR CONTOUR
- +86 EXISTING MINOR CONTOUR
- OE EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- +86 DESIGN CONTOUR BY MOORE BASS

CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION



**2** KEY PLAN  
C308

**ISSUED FOR CONSTRUCTION**



VAA, LLC  
2300 Berkshire Lane N, Suite 200  
Plymouth, MN 55441  
763.559.9100  
www.vaaeng.com  
Project # 230384

CLIENT:



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Phone: 888-742-6837  
Email: info@greystoneconstruction.com  
Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| D  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| E  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

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Reason: Digitally Signed by Andrew LaPalme  
Date: 2025.05.09 14:46:57-05'00'

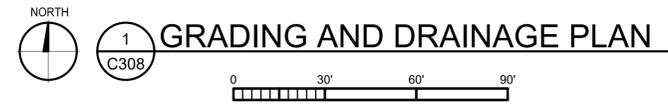
ANDREW R. LAPALME, PE  
Registration No. 92212

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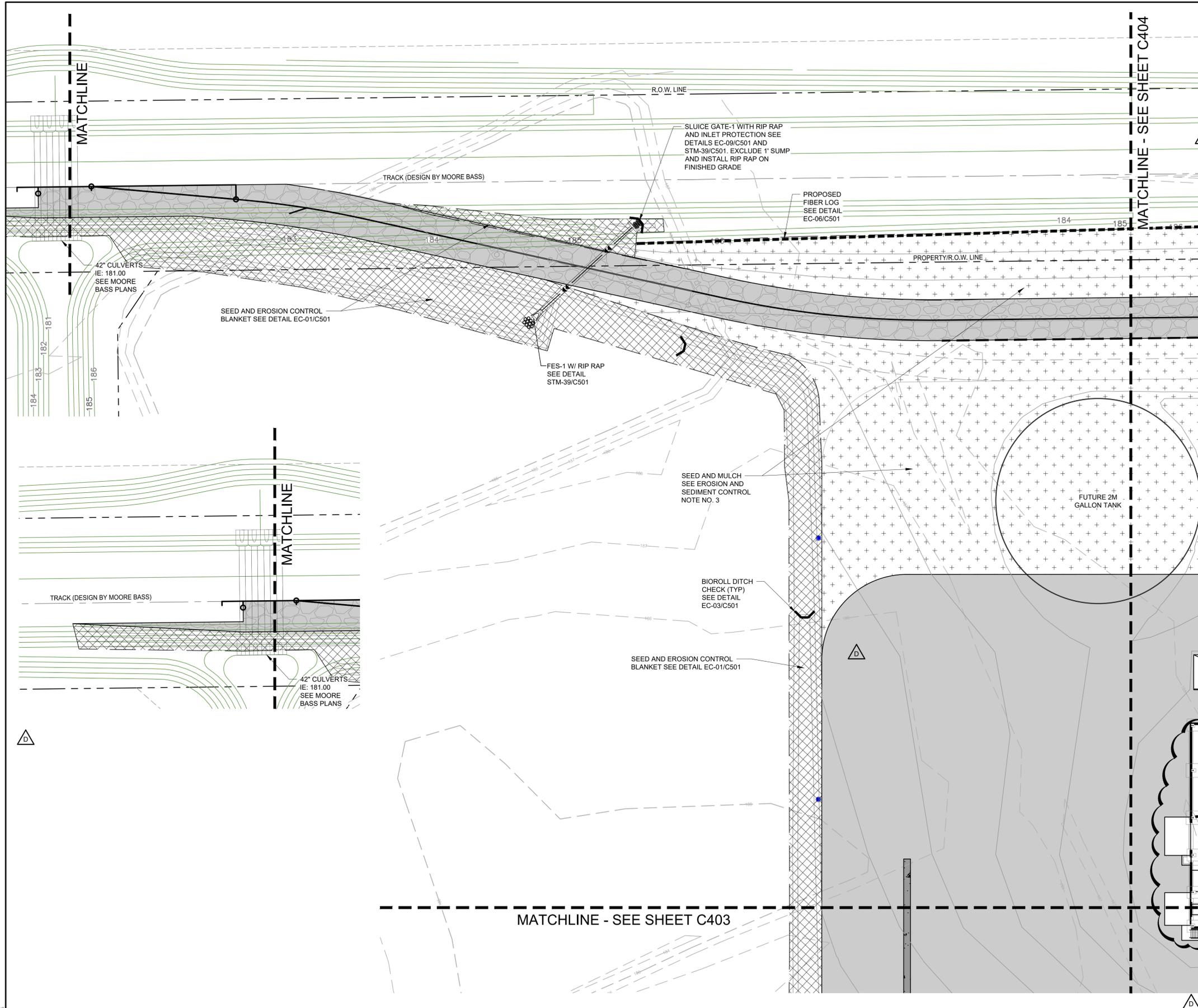
|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**GRADING AND DRAINAGE PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C308 |
| SCALE:<br>AS NOTED    |                     |





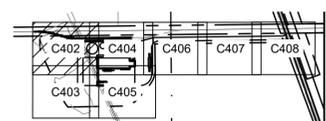


**EROSION AND SEDIMENT CONTROL NOTES**

- SEE SHEET C401 FOR GENERAL NOTES.
- ALL DISTURBED AREAS, NOT OTHERWISE STABILIZED AND TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH. UPON COMPLETION OF GRADING ACTIVITIES, CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS EXCEPT OTHER AREAS STABILIZED WITH SOD. STABILIZATION SHALL CONSIST OF SEED AND MULCH PER FDOT SPECIFICATIONS.
- SIDE SLOPES OF EXCAVATED SWALE AREAS SHALL BE SEEDED AND MULCHED, OR EROSION CONTROL BLANKET SHALL BE PLACED WHERE NOTED. SEEDING AND MULCHING PER FDOT SPECIFICATION SECTIONS 570 AND 981. SEEDING RATE AND MIX SHALL COMPLY WITH THE SEEDING RATE TABLE OF FDOT INDEX 104. EROSION CONTROL BLANKET PER FDOT SPECIFICATION SECTION 104.
- SEE SWPPP SHEET C601 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
- INSTALL PERIMETER AND SEDIMENT CONTROL ITEMS PRIOR TO CONSTRUCTION.
- REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS THROUGHOUT THE DURATION OF THE CONSTRUCTION. CLEAN PAVED ROADWAYS BY SHOVELING OR SWEEPING. STREET WASHING IS ALLOWED ONLY AFTER SHOVELING OR SWEEPING HAS REMOVED SEDIMENT. SEE COLUMBIA COUNTY STANDARDS AND REGULATIONS.
- RESTORATION REQUIREMENTS ARE SHOWN AT A MINIMUM. ADDITIONAL RESTORATION MAY BE REQUIRED IF THERE IS ADDITIONAL SOIL DISTURBANCE.

**LEGEND**

- PROPOSED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED FIBER LOG
- PROPOSED SEDIMENT CONTROL AT MH/ICB
- PROPOSED BIOROLL
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED UTILITY POLE W/ GUY WIRE
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- PROPOSED EROSION CONTROL BLANKET
- PROPOSED SEED AND MULCH
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- DESIGN CONTOUR BY MOORE BASS



**ISSUED FOR CONSTRUCTION**

**VAA, LLC**  
2300 Berkshire Lane N, Suite 200  
Plymouth, MN 55441

763.559.9100  
www.vaaeng.com  
Project # 230384

CLIENT:

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PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
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| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 01/04/2024 | ADDENDUM 1              | RCQ |
| D  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| E  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| F  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

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Date: 2025.05.09 14:47:52-05'00'

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Registration No. 92212

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|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:

**EROSION AND SEDIMENT CONTROL PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C402 |
| SCALE:<br>AS NOTED    |                     |

NORTH

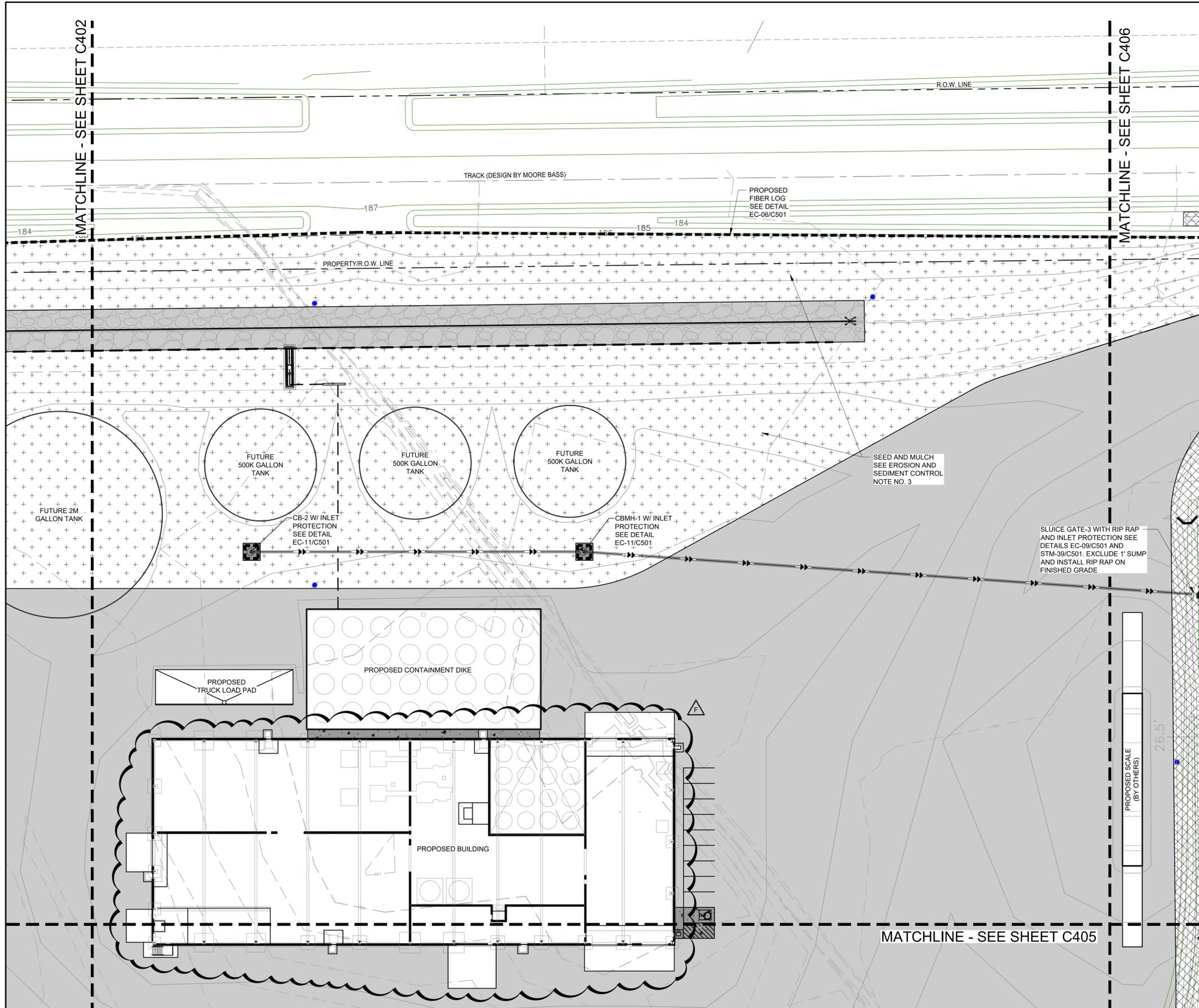
**1 EROSION AND SEDIMENT CONTROL PLAN**

0 30' 60' 90'

1"=30'

Date Plotted: Friday, May 29, 2025



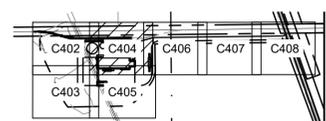


### EROSION AND SEDIMENT CONTROL NOTES

- SEE SHEET C401 FOR GENERAL NOTES.
- ALL DISTURBED AREAS, NOT OTHERWISE STABILIZED AND TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH. UPON COMPLETION OF GRADING ACTIVITIES, CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS EXCEPT OTHER AREAS STABILIZED WITH SOD. STABILIZATION SHALL CONSIST OF SEED AN MULCH PER FDOT SPECIFICATIONS.
- SIDE SLOPES OF EXCAVATED SWALE AREAS SHALL BE SEEDED AND MULCHED, OR EROSION CONTROL BLANKET SHALL BE PLACED WHERE NOTED. SEEDING AND MULCHING PER FDOT SPECIFICATION SECTIONS 570 AND 981. SEEDING RATE AND MIX SHALL COMPLY WITH THE SEEDING RATE TABLE OF FDOT INDEX 104. EROSION CONTROL BLANKET PER FDOT SPECIFICATION SECTION 104.
- SEE SWPPP SHEET C601 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
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- RESTORATION REQUIREMENTS ARE SHOWN AT A MINIMUM. ADDITIONAL RESTORATION MAY BE REQUIRED IF THERE IS ADDITIONAL SOIL DISTURBANCE.

### LEGEND

- PROPOSED CONTOUR
- PROPOSED STORM SEWER
- OE — PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED FIBER LOG
- PROPOSED SEDIMENT CONTROL AT MH/CB
- PROPOSED BIOROLL
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED UTILITY POLE W/ GUY WIRE
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- PROPOSED EROSION CONTROL BLANKET
- PROPOSED SEED AND MULCH
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- OE — EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- DESIGN CONTOUR BY MOORE BASS



NORTH

1 EROSION AND SEDIMENT CONTROL PLAN

C404

0 30' 60' 90'

1"=30'

VAA, LLC  
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PROJECT:

NEW LIQUID FERTILIZER FACILITY  
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| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 01/04/2024 | ADDENDUM 1              | RCQ |
| D  | 09/11/2024 | OWNER CHECK SET         | RCQ |
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| F  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

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Date: 2025.05.09 14:48:53-05'00'

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Registration No. 92212

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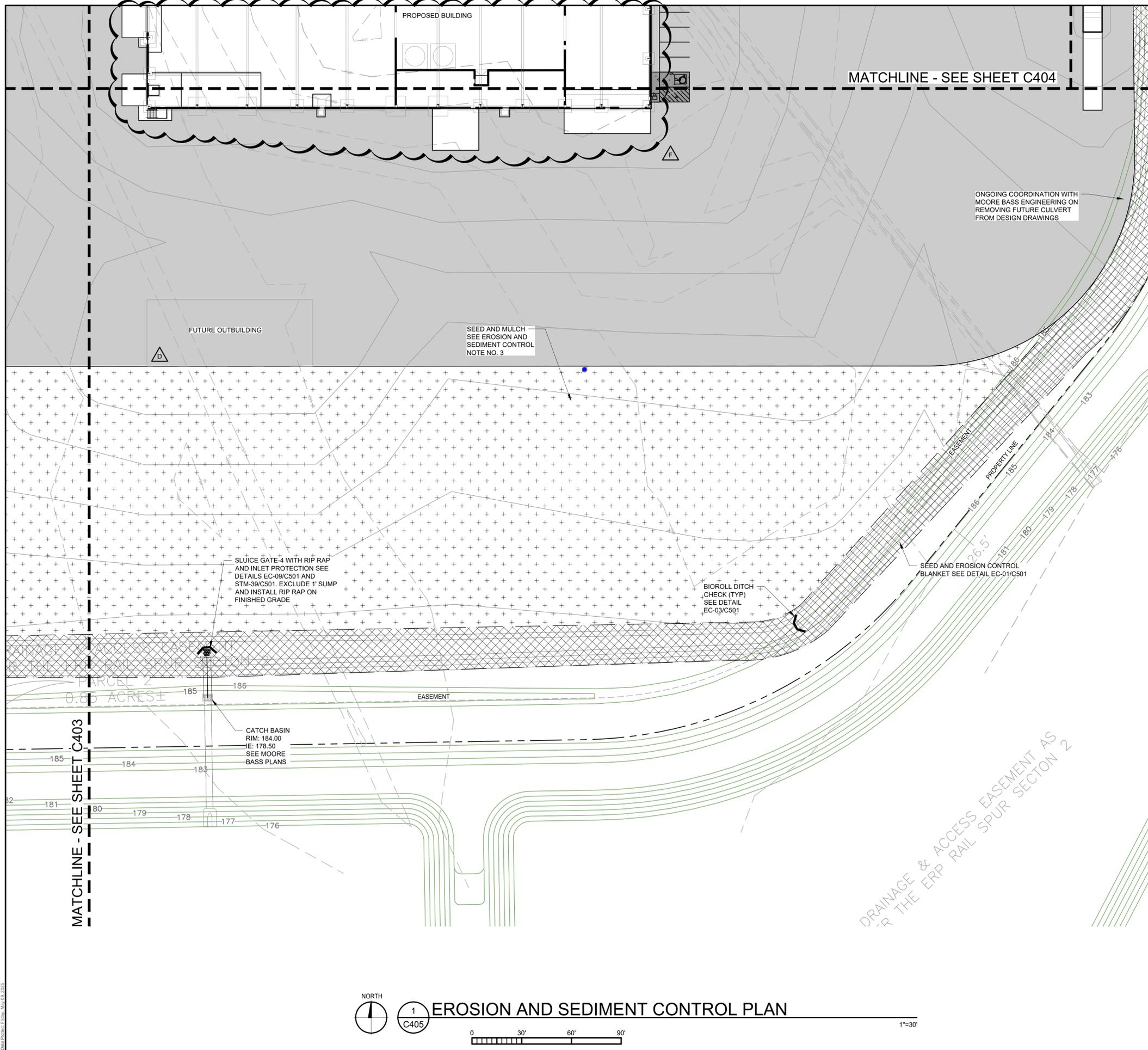
|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:

EROSION AND SEDIMENT CONTROL PLAN

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C404 |
| SCALE:<br>AS NOTED    |                     |

**ISSUED FOR CONSTRUCTION**

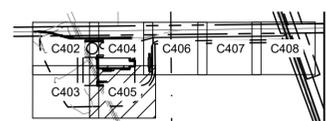


### EROSION AND SEDIMENT CONTROL NOTES

- SEE SHEET C401 FOR GENERAL NOTES.
- ALL DISTURBED AREAS, NOT OTHERWISE STABILIZED AND TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH. UPON COMPLETION OF GRADING ACTIVITIES, CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS EXCEPT OTHER AREAS STABILIZED WITH SOD. STABILIZATION SHALL CONSIST OF SEED AND MULCH PER FDOT SPECIFICATIONS.
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### LEGEND

- PROPOSED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED FIBER LOG
- PROPOSED SEDIMENT CONTROL AT MH/ICB
- PROPOSED BIOROLL
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED UTILITY POLE W/ GUY WIRE
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- PROPOSED EROSION CONTROL BLANKET
- PROPOSED SEED AND MULCH
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- STORM DRAINAGE DESIGN BY MOORE BASS
- DESIGN CONTOUR BY MOORE BASS



**ISSUED FOR CONSTRUCTION**

VAA, LLC  
2300 Berkshire Lane N, Suite 200  
Plymouth, MN 55441

763.559.9100  
www.vaaeng.com  
Project # 230384

CLIENT:

**GREYSTONE CONSTRUCTION**

YOUR VISION. OUR TEAM. GREAT PROJECTS.  
Phone: 888-742-6837  
Email: info@greystoneconstruction.com  
Website: GreystoneConstruction.com

PROJECT:

**NEW LIQUID FERTILIZER FACILITY  
LAKE CITY, FL**

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 01/04/2024 | ADDENDUM 1              | RCQ |
| D  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| E  | 11/12/2024 | SITE PLAN UPDATES       | RCQ |
| F  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

CERTIFICATION:

This item has been digitally signed and sealed by Andrew R. LaPalme.  
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Reason:  
Digitally Signed by Andrew LaPalme  
Date: 2025.05.09 14:49:17-05'00'

ANDREW R. LAPALME, PE  
Registration No. 92212

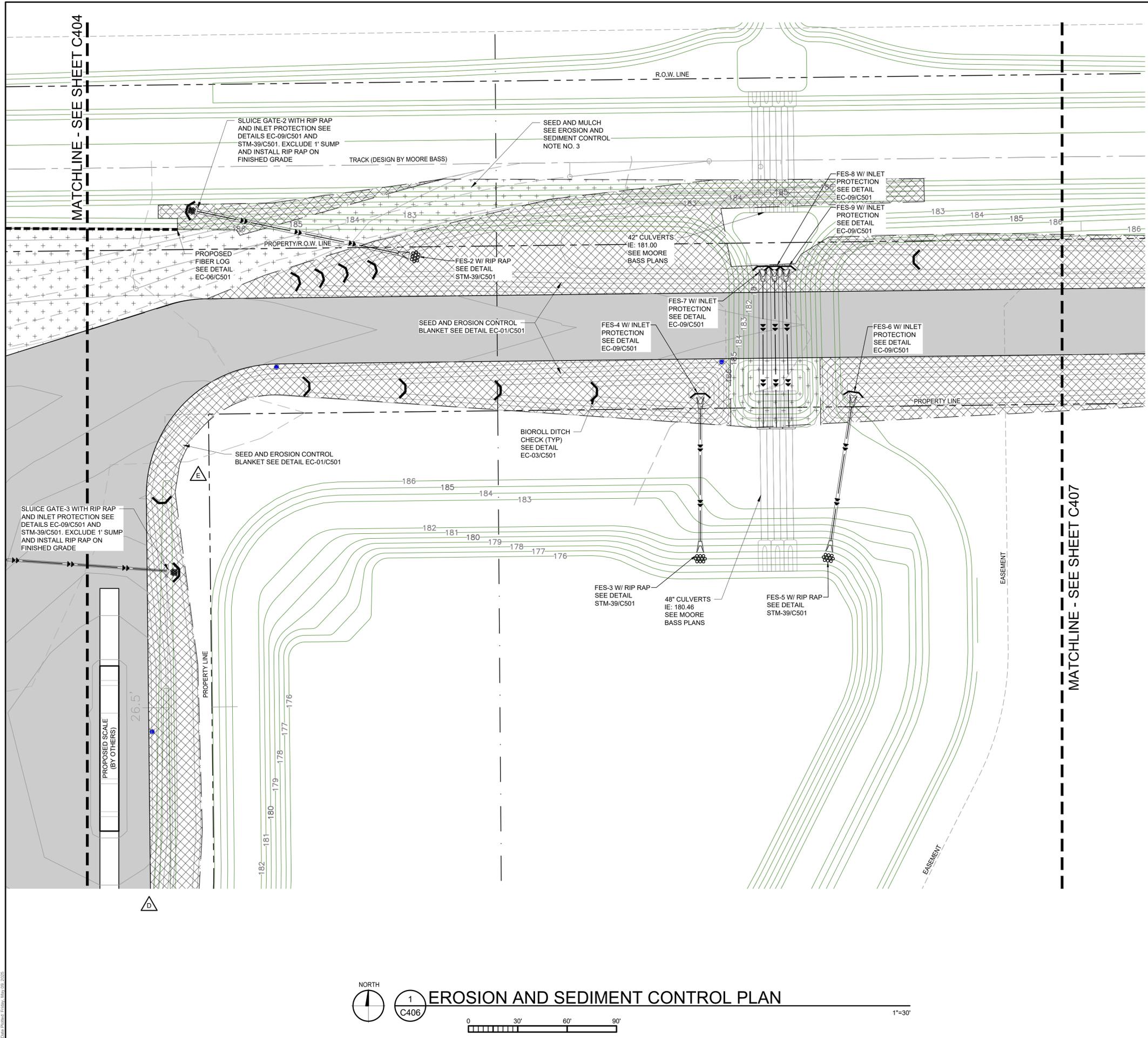
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|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:

**EROSION AND SEDIMENT CONTROL PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C405 |
| SCALE:<br>AS NOTED    |                     |

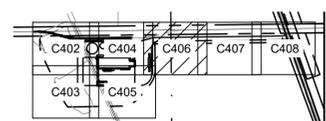


### EROSION AND SEDIMENT CONTROL NOTES

- SEE SHEET C401 FOR GENERAL NOTES.
- ALL DISTURBED AREAS, NOT OTHERWISE STABILIZED AND TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH. UPON COMPLETION OF GRADING ACTIVITIES, CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS EXCEPT OTHER AREAS STABILIZED WITH SOD. STABILIZATION SHALL CONSIST OF SEED AND MULCH PER FDOT SPECIFICATIONS.
- SIDE SLOPES OF EXCAVATED SWALE AREAS SHALL BE SEEDED AND MULCHED, OR EROSION CONTROL BLANKET SHALL BE PLACED WHERE NOTED. SEEDING AND MULCHING PER FDOT SPECIFICATION SECTIONS 570 AND 981. SEEDING RATE AND MIX SHALL COMPLY WITH THE SEEDING RATE TABLE OF FDOT INDEX 104. EROSION CONTROL BLANKET PER FDOT SPECIFICATION SECTION 104.
- SEE SWPPP SHEET C601 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
- INSTALL PERIMETER AND SEDIMENT CONTROL ITEMS PRIOR TO CONSTRUCTION.
- REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS THROUGHOUT THE DURATION OF THE CONSTRUCTION. CLEAN PAVED ROADWAYS BY SHOVELING OR SWEEPING. STREET WASHING IS ALLOWED ONLY AFTER SHOVELING OR SWEEPING HAS REMOVED SEDIMENT. SEE COLUMBIA COUNTY STANDARDS AND REGULATIONS.
- RESTORATION REQUIREMENTS ARE SHOWN AT A MINIMUM. ADDITIONAL RESTORATION MAY BE REQUIRED IF THERE IS ADDITIONAL SOIL DISTURBANCE.

### LEGEND

- PROPOSED CONTOUR
- PROPOSED STORM SEWER
- PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED FIBER LOG
- PROPOSED SEDIMENT CONTROL AT MH/ICB
- PROPOSED BIOROLL
- PROPOSED CBMH
- PROPOSED FES
- PROPOSED UTILITY POLE W/ GUY WIRE
- FUTURE SITE LIGHT POLE
- PROPOSED GRAVEL PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SUBBALLAST
- PROPOSED EROSION CONTROL BLANKET
- PROPOSED SEED AND MULCH
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- EXISTING PROPERTY LINE
- EXISTING/ PROPOSED PROPERTY LINE
- EXISTING/ PROPOSED EASEMENT
- EXISTING SECTION LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING GRAVEL PAVEMENT
- TRACK DESIGN BY MOORE BASS
- STORM DRAINAGE DESIGN BY MOORE BASS
- DESIGN CONTOUR BY MOORE BASS



2 KEY PLAN  
C406

**VAA**  
 VAA, LLC  
 2300 Berkshire Lane N, Suite 200  
 Plymouth, MN 55441  
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Reason: Digitally Signed by Andrew LaPalme  
 Date: 2025.05.09 14:49:43-05'00'

ANDREW R. LAPALME, PE  
 Registration No. 92212

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|                     |                  |
|---------------------|------------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ    |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL  |
|                     | APPROVED:<br>MDM |

DRAWING TITLE:  
**EROSION AND SEDIMENT CONTROL PLAN**

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C406 |
| SCALE:<br>AS NOTED    |                     |

**ISSUED FOR CONSTRUCTION**

NORTH

1 EROSION AND SEDIMENT CONTROL PLAN  
C406

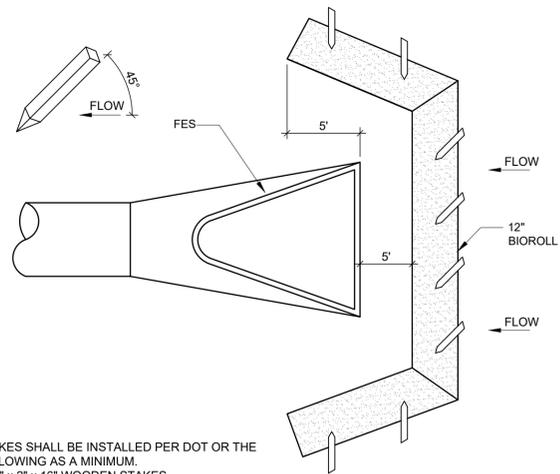
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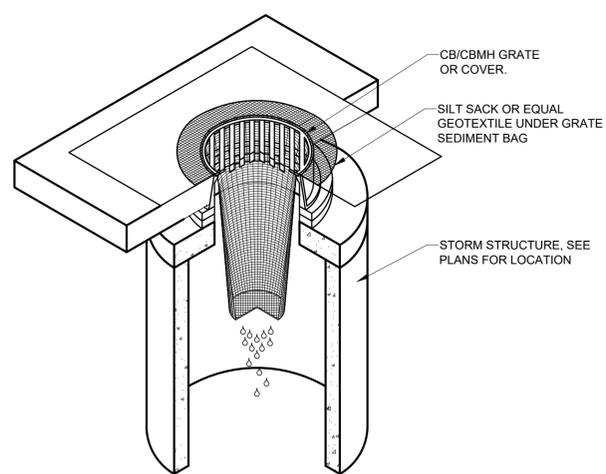
Date Plotted: Friday, May 20, 2025



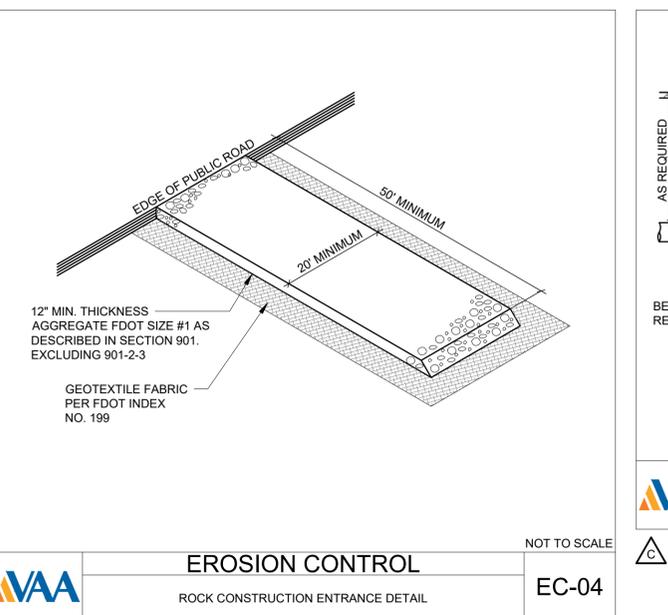
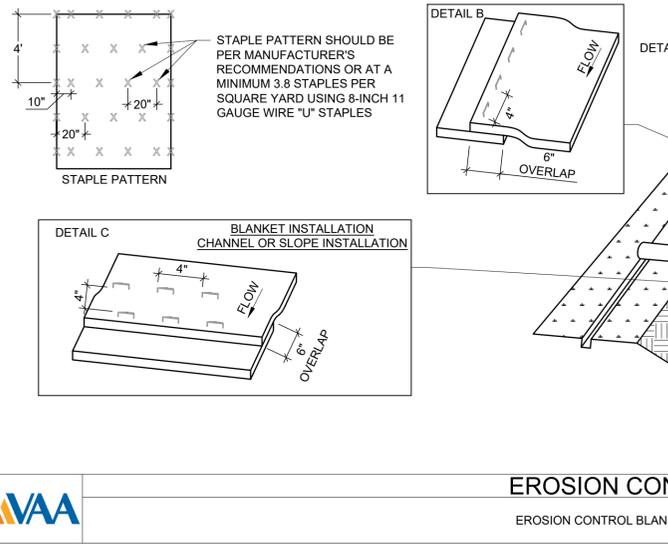
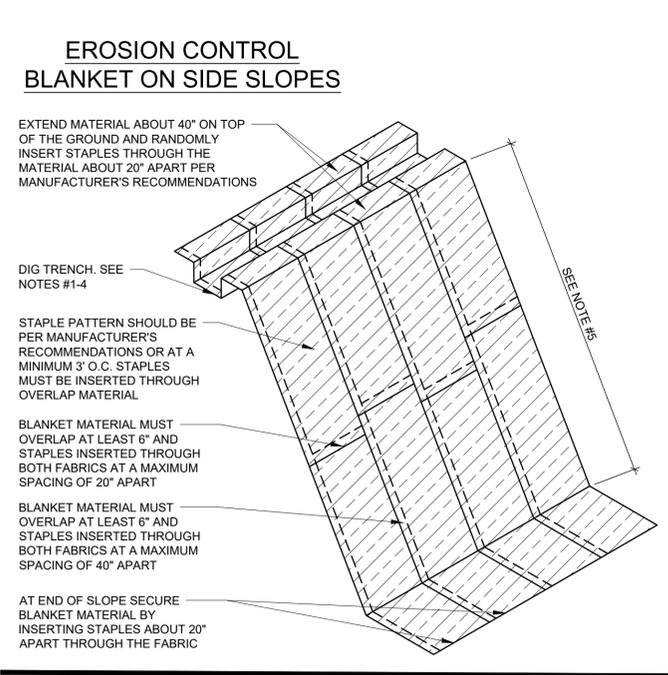




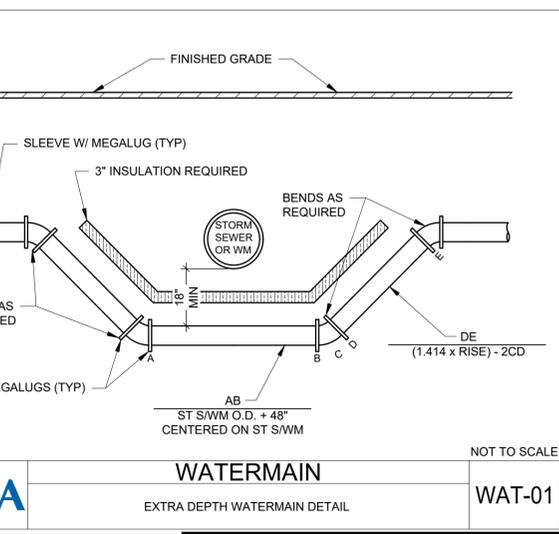
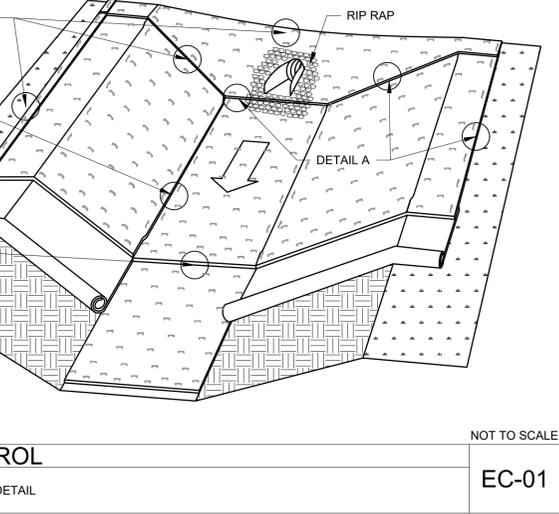
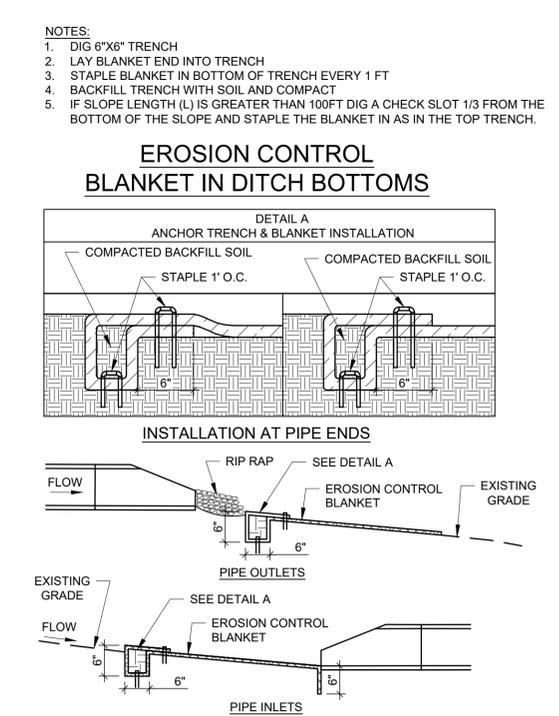
**EROSION CONTROL**  
INLET PROTECTION AT FES  
EC-09



**EROSION CONTROL**  
SEDIMENT CONTROL AT CB/CBMH DETAIL  
EC-11

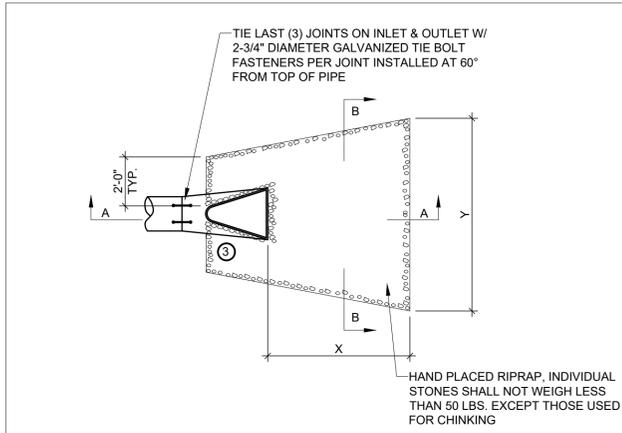


**EROSION CONTROL**  
ROCK CONSTRUCTION ENTRANCE DETAIL  
EC-04



**WATERMAIN**  
EXTRA DEPTH WATERMAIN DETAIL  
WAT-01

**ISSUED FOR CONSTRUCTION**



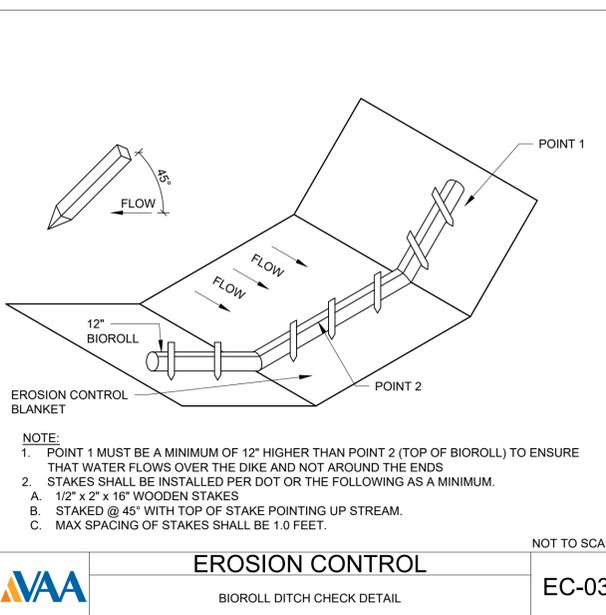
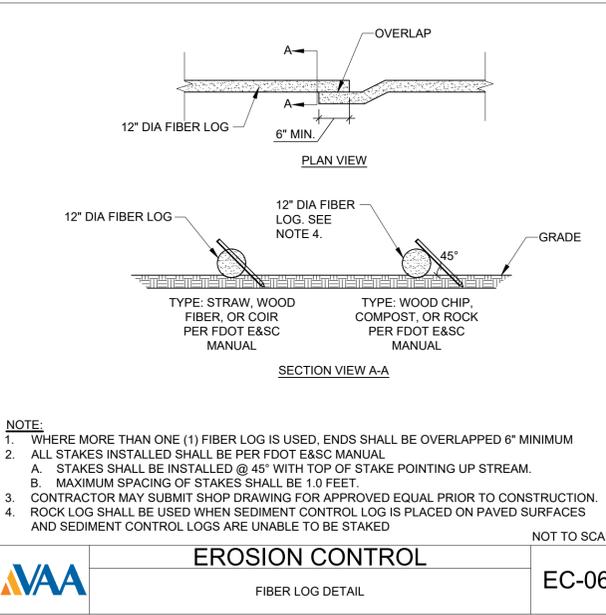
**SECTION A-A**

**SECTION B-B**

PROVIDE RIPRAP & GRANULAR FILTER AS FOLLOWS

| PIPE DIA. | X   | Y   | 18" DEPTH RIPRAP (CY) | 9" DEPTH GRAN. FILTER (CY) |
|-----------|-----|-----|-----------------------|----------------------------|
| 12"       | 8'  | 10' | 4.1                   | 2.1                        |
| 18"       | 10' | 12' | 5.9                   | 3.0                        |
| 24"       | 12' | 14' | 8.3                   | 4.2                        |
| 48"       | 20' | 21' | 19.4                  | 9.7                        |

**STORM**  
RIPRAP AT RCP OUTLET DETAIL  
STM-39



**EROSION CONTROL**  
BIOROLL DITCH CHECK DETAIL  
EC-03

- NOTES:
- DIG 6"x8" TRENCH
  - LAY BLANKET END INTO TRENCH
  - STAPLE BLANKET IN BOTTOM OF TRENCH EVERY 1 FT
  - BACKFILL TRENCH WITH SOIL AND COMPACT
  - IF SLOPE LENGTH (L) IS GREATER THAN 100FT DIG A CHECK SLOT 1/3 FROM THE BOTTOM OF THE SLOPE AND STAPLE THE BLANKET IN AS IN THE TOP TRENCH.

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**ANDREW R. LAPALME**  
LICENSE  
No 92212  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
Reason: Digitally Signed by Andrew LaPalme  
Date: 2025.05.09 14:51:20-05'00'

ANDREW R. LAPALME, PE  
Registration No. 92212

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|------------|--------|
| 10/19/2023 | RCQ    |

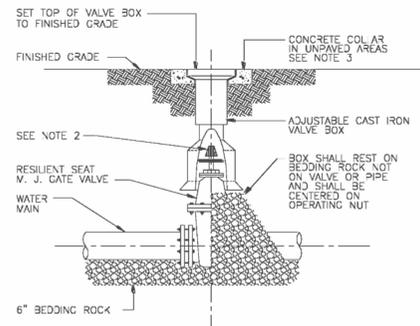
| DESIGNED: | CHECKED: | APPROVED: |
|-----------|----------|-----------|
| AJR       | ARL      | MDM       |

DRAWING TITLE:  
**CIVIL DETAILS**

| PROJECT NO: | DRAWING NO: |
|-------------|-------------|
| 230384      | C501        |

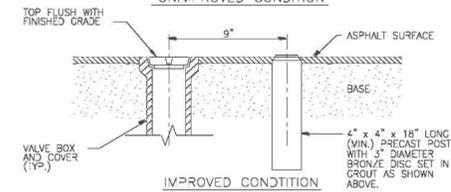
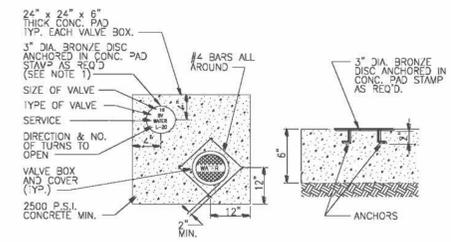
| SCALE:   |
|----------|
| AS NOTED |





NOTES:  
 1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.  
 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.  
 3. VALVE COLLAR SHALL BE 18"x18"x6" CONCRETE COLLAR W/4 - #4 BARS.

|                           |           |          |                  |                                  |
|---------------------------|-----------|----------|------------------|----------------------------------|
| COLUMBIA COUNTY           |           |          |                  |                                  |
| GATE VALVE AND BOX DETAIL |           |          |                  |                                  |
| Date                      | Revisions | Appr. by | Date: Sept. 1996 | Scale: N.T.S. Dwg: Q400 Fig: 400 |



NOTES:  
 1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.

|                     |           |          |                  |                                  |
|---------------------|-----------|----------|------------------|----------------------------------|
| COLUMBIA COUNTY     |           |          |                  |                                  |
| VALVE COLLAR DETAIL |           |          |                  |                                  |
| Date                | Revisions | Appr. by | Date: Sept. 1996 | Scale: N.T.S. Dwg: Q107 Fig: 107 |

# FRESNO

## SERIES 6600 MODEL 101C SLIDE GATE



- Features**
- One-piece adjustable wedges ensure uniform wedging action.
  - Roll threaded rising stem provides ease of operation and extended stem life.
  - Rugged Cast Iron seat and cover.
  - Available for mounting to headwalls or corrugated pipe.
  - Precision machined seating surfaces.

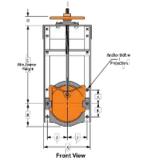
### Material Specifications

| Item | Description         | Material          | Specification         |
|------|---------------------|-------------------|-----------------------|
| 1    | Seat                | Cast Iron         | ASTM A126, Class B    |
| 2    | Slide               | Cast Iron         | ASTM A126, Class B    |
| 3    | Head Bar            | Steel, Galvanized | ASTM A153             |
| 4    | Wedge               | Cast Iron         | ASTM A126, Class B    |
| 5    | Wedge Bolts/Nuts    | Steel, Plated     | ASTM A307, A164       |
| 6    | Stem                | Steel             | ASTM A108, Grade 1045 |
| 7    | Slide Angles        | Steel, Galvanized | ASTM A307             |
| 8    | Stem Support        | Steel, Galvanized | ASTM A307             |
| 9    | Headbar Bolt/ Nut   | Steel, Plated     | ASTM A307, A164       |
| 10   | Handwheel           | Cast Iron         | ASTM A126, Class B    |
| 11   | Handwheel Set Screw | Steel, Plated     | ASTM A307, A164       |
| 12   | Keeper              | Cast Iron         | ASTM A126, Class B    |
| 13   | Keeper Bolts/Nuts   | Steel, Plated     | ASTM A307, A164       |
| 14   | Lift Nut            | Brass             | ASTM B16              |
| 15   | Stem Locknut        | Plated            | ASTM A307, A164       |

### Applications

The Series 6600 Slide Gate is designed for use in canals and ditches, on corrugated pipe, flood control systems, oil refineries, fish hatcheries and various low head industrial water control applications where pressure is in seating direction only.

### SPECIFICATIONS



**Pressure Rating**  
 Gate Size:  
 6"-24" ..... 23 ft.  
 30"-36" ..... 11 ft.  
 42"-48" ..... 9 ft.  
 54"-60" ..... 6 ft.

**Installation**  
 The Series 6600 Slide Gate is normally installed on corrugated steel pipe or bolted to a concrete head wall. When attaching to corrugated pipe, you may either bolt directly to the spigot back seat, or use a rod and harness assembly.

- Options**
- Frame angles available painted, galvanized or Stainless Steel.
  - Cast Iron or Bronze seating faces.
  - Stainless Steel stem and fasteners.
  - Flat back for headwall or flange mounting.
  - Spigot back for mounting to corrugated pipe.
  - Square bottom slide in select sizes.
  - Rising stem and non-projecting stem extensions.
  - Tapered setting collars for concrete pipe installations.

### Dimensional Information

| Gate Size (Inches) | Dimensions (Inches) |      |       |      |      |      |       |      |       |       |      | Anchor Bolt Data |      |                | Lift Data      |           |           |
|--------------------|---------------------|------|-------|------|------|------|-------|------|-------|-------|------|------------------|------|----------------|----------------|-----------|-----------|
|                    | A                   | B    | C     | D    | E    | F    | G     | H    | J     | K     | Qty. | Size             | Qty. | L <sub>R</sub> | H <sub>W</sub> | Stem Dia. | Stem Dia. |
| 6                  | 9.3                 | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 8                  | 11.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 10                 | 13.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 12                 | 15.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 14                 | 17.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 16                 | 19.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 18                 | 21.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 20                 | 23.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 22                 | 25.3                | 4.0  | 11.00 | 2.81 | 3.88 | 2.25 | 6.75  | 1.50 | 4.00  | 2.50  | 4.0  | 1/2 x 12         | 4.00 | HT             | 10.0           | 7.8       |           |
| 24                 | 27.0                | 13.6 | 42.25 | 2.81 | 4.88 | 2.88 | 15.25 | 1.50 | 13.50 | 2.00  | 4.0  | 5/8 x 12         | 4.50 | HT             | 14.0           | 11.8      |           |
| 30                 | 35.0                | 17.1 | 51.50 | 2.80 | 3.88 | 3.75 | 31.25 | 2.00 | 16.88 | 12.00 | 4.0  | 3/4 x 12         | 5.25 | HT             | 14.0           | 11.8      |           |
| 36                 | 41.5                | 20.1 | 59.50 | 3.50 | 4.88 | 4.75 | 37.25 | 2.00 | 19.88 | 15.00 | 4.0  | 3/4 x 12         | 5.25 | HT             | 14.0           | 11.8      |           |
| 42                 | 47.5                | 23.1 | 69.50 | 3.50 | 6.88 | 4.12 | 43.38 | 2.00 | 22.88 | 18.00 | 6.0  | 3/4 x 12         | 5.50 | HT             | 24.0           | 11.2      |           |
| 48                 | 53.5                | 26.1 | 79.50 | 4.12 | 6.88 | 4.12 | 49.38 | 2.00 | 25.88 | 21.00 | 6.0  | 3/4 x 12         | 5.50 | HT             | 24.0           | 11.2      |           |
| 54                 | 61.3                | 29.1 | 87.75 | 4.12 | 7.75 | 4.62 | 55.38 | 2.00 | 29.25 | 18.00 | 6.0  | 1 x 12           | 6.50 | H281           | 30.0           | 2.00      |           |
| 60                 | 68.0                | 32.3 | 97.25 | 6.12 | 9.00 | 5.12 | 61.38 | 2.00 | 32.60 | 20.00 | 8.0  | 1 x 12           | 8.50 | H281           | 30.0           | 2.00      |           |

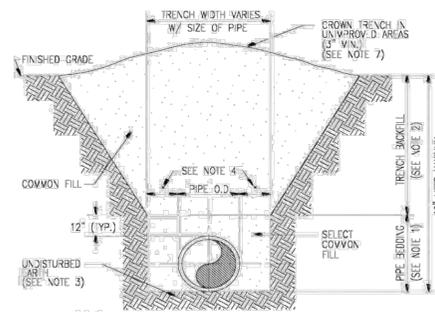


Fresno Valves & Castings, Inc.  
 7736 East Springdale Avenue  
 P.O. Box 40, Selma, CA 95342 U.S.A.  
 (800) 333-1658  
 www.fresnovalves.com

### STORM

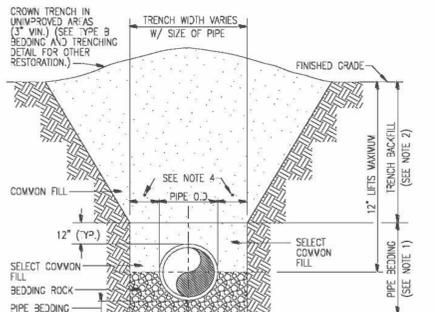
SLUICE (CANAL) GATE

STM-88



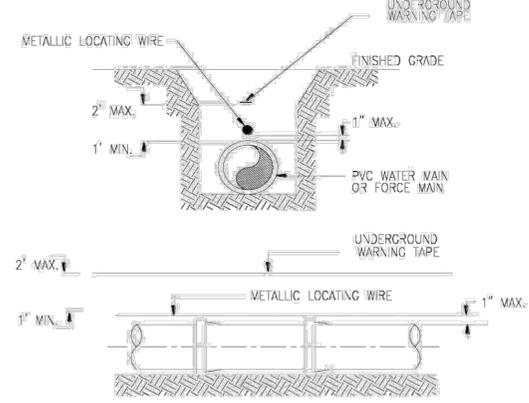
NOTES:  
 1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER MSHTO T-180.  
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER MSHTO T-180.  
 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE COUNTY.  
 4. (\*) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.  
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.  
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.  
 7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN THE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH THE APPLICABLE REGULATIONS.

|                                     |           |          |                  |                                  |
|-------------------------------------|-----------|----------|------------------|----------------------------------|
| COLUMBIA COUNTY                     |           |          |                  |                                  |
| TYPE B BEDDING AND TRENCHING DETAIL |           |          |                  |                                  |
| Date                                | Revisions | Appr. by | Date: Sept. 1996 | Scale: N.T.S. Dwg: Q100 Fig: 100 |



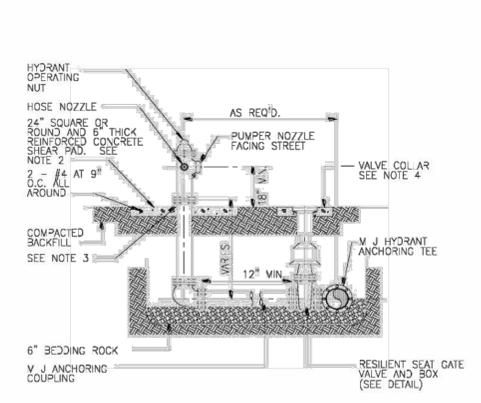
NOTES:  
 1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER MSHTO T-180.  
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER MSHTO T-180.  
 3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE COUNTY.  
 4. (\*) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.  
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.  
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.  
 7. REFER TO SECTION 32.5 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.  
 8. CRAWLY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE COUNTY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.  
 9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. APPLICABLE GOVERNING AGENCY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

|                                     |           |          |                  |                                 |
|-------------------------------------|-----------|----------|------------------|---------------------------------|
| COLUMBIA COUNTY                     |           |          |                  |                                 |
| TYPE A BEDDING AND TRENCHING DETAIL |           |          |                  |                                 |
| Date                                | Revisions | Appr. by | Date: Sept. 1996 | Scale: N.T.S. Dwg: Q10 Fig: 101 |



NOTES:  
 1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (14 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION. USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.  
 2. PROPERLY COLOR CODED UNDERGROUND WARNING TAPE SHALL BE PLACED AT A MINIMUM OF 1 FOOT ABOVE THE PIPE AND NO GREATER THAN 2 FEET ABOVE THE PIPE, FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF UNDERGROUND UTILITY LINES.

|                               |           |          |                 |                                  |
|-------------------------------|-----------|----------|-----------------|----------------------------------|
| COLUMBIA COUNTY               |           |          |                 |                                  |
| PVC PIPE LOCATING WIRE DETAIL |           |          |                 |                                  |
| Date                          | Revisions | Appr. by | Date: FEB. 2010 | Scale: N.T.S. Dwg: Q108 Fig: 108 |



NOTES:  
 1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.  
 2. THE DEVELOPER MAY INSTALL THE SHEAR PAD RECESSED UP TO 4 INCHES BELOW FINISHED GRADE AND SO THE RECESSED SECTION. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A 6" MINIMUM.  
 3. VALVE COLLAR SHALL BE 18"x18"x6" CONCRETE COLLAR W/4 - #4 BARS

|                              |           |          |                  |                                  |
|------------------------------|-----------|----------|------------------|----------------------------------|
| COLUMBIA COUNTY              |           |          |                  |                                  |
| FIRE HYDRANT ASSEMBLY DETAIL |           |          |                  |                                  |
| Date                         | Revisions | Appr. by | Date: Sept. 1996 | Scale: N.T.S. Dwg: Q402 Fig: 402 |

**ISSUED FOR CONSTRUCTION**



PROJECT:  
 NEW LIQUID FERTILIZER FACILITY  
 LAKE CITY, FL

| NO | DATE       | ISSUE/REVISION          | BY  |
|----|------------|-------------------------|-----|
| A  | 10/19/2023 | DESIGN DEVELOPMENT      | RCQ |
| B  | 12/11/2023 | ISSUED FOR PERMIT       | RCQ |
| C  | 09/11/2024 | OWNER CHECK SET         | RCQ |
| D  | 05/09/2025 | ISSUED FOR CONSTRUCTION | RCQ |

CERTIFICATION:  
 This item has been digitally signed and sealed by Andrew R. LaPalme.  
 Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.  
 Reason:  
 Digitally Signed by  
 Andrew LaPalme  
 Date:  
 2025.05.09  
 14:52:32-05'00'

ANDREW R. LAPALME, PE  
 Registration No. 92212

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|                     |                 |
|---------------------|-----------------|
| DATE:<br>10/19/2023 | DRAWN:<br>RCQ   |
| DESIGNED:<br>AJR    | CHECKED:<br>ARL |
| APPROVED:<br>MDM    |                 |

DRAWING TITLE:  
 CIVIL DETAILS

|                       |                     |
|-----------------------|---------------------|
| PROJECT NO:<br>230384 | DRAWING NO:<br>C503 |
| SCALE:<br>AS NOTED    |                     |



