# SITEWORK FOR NEW LIQUID FERTILIZER FACILITY LAKE CITY, FL



		10/19/20	12/11/2	01/04/2	09/11/2	
SHEET NO.	DESCRIPTION					
C001	TITLE SHEET AND DRAWING INDEX					
-	CERTIFIED BOUNDARY SURVEY					
C101	OVERALL EXISTING CONDITIONS AND REMOVALS PLAN					
C102	EXISTING CONDITIONS AND REMOVALS PLAN					
C103	EXISTING CONDITIONS AND REMOVALS PLAN					
C104	EXISTING CONDITIONS AND REMOVALS PLAN					
C105	EXISTING CONDITIONS AND REMOVALS PLAN					
C106	EXISTING CONDITIONS AND REMOVALS PLAN					
C107	EXISTING CONDITIONS AND REMOVALS PLAN					
C108	EXISTING CONDITIONS AND REMOVALS PLAN					
C201	OVERALL SITE PAVING AND UTILITY PLAN					
C202	SITE PAVING AND UTILITY PLAN					
C203	SITE PAVING AND UTILITY PLAN					
C204	SITE PAVING AND UTILITY PLAN					
C205	SITE PAVING AND UTILITY PLAN					
C206	SITE PAVING AND UTILITY PLAN					
C207	SITE PAVING AND UTILITY PLAN					
C208	SITE PAVING AND UTILITY PLAN					
C251	COUNTY UTILITY PLAN					
C252	WATERMAIN PLAN AND PROFILE					
C301	OVERALL GRADING AND DRAINAGE PLAN					
C302	GRADING AND DRAINAGE PLAN					
C303	GRADING AND DRAINAGE PLAN					
C304	GRADING AND DRAINAGE PLAN					
C305	GRADING AND DRAINAGE PLAN					
C306	GRADING AND DRAINAGE PLAN					
C307	GRADING AND DRAINAGE PLAN					
C308	GRADING AND DRAINAGE PLAN					
C401	OVERALL EROSION AND SEDIMENT CONTROL PLAN					
C402	EROSION AND SEDIMENT CONTROL PLAN					
C403	EROSION AND SEDIMENT CONTROL PLAN					
C404	EROSION AND SEDIMENT CONTROL PLAN					
C405	EROSION AND SEDIMENT CONTROL PLAN					
C406	EROSION AND SEDIMENT CONTROL PLAN					
C407	EROSION AND SEDIMENT CONTROL PLAN					
C408	EROSION AND SEDIMENT CONTROL PLAN					
C501	CIVIL DETAILS					
C502	CIVIL DETAILS					
C503	CIVIL DETAILS					
C601	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)					

OWNER:

TODD CRESSMSAN **AGROLIQUID** 3055 W M-21 SAINT JOHNS, MI 48879

CONTRACTOR / SITE MANAGER:

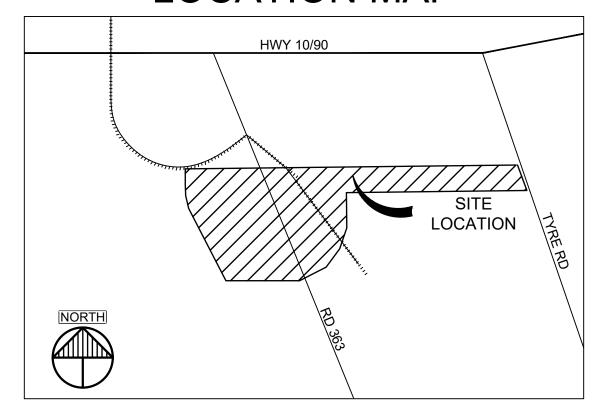
**GREYSTONE CONSTRUCTION** 2995 WINNERS CIRCLE DRIVE, SUITE 200 SHAKOPEE, MN 55379

CIVIL: VAA, LLC

> 2300 BERKSHIRE LANE NORTH, SUITE 200 PLYMOUTH, MN 55441 CONTACT: ALEX RAKOS EMAIL: ARAKOS@VAAENG.COM PHONE: (763) 559-9100



### LOCATION MAP





**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	В
NO			
A	10/19/2023	DESIGN DEVELOPMENT	RC
В	12/11/2023	ISSUED FOR PERMIT	RC
С	01/04/2024	ADDENDUM 1	RC
D	09/11/2024	OWNER CHECK SET	RC

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY O VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC.
COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE:		DRAWN:	
10/19/2023		RCQ	
DESIGNED: AJR	CHECKE ARL	D:	APPROVED: MDM
	I		

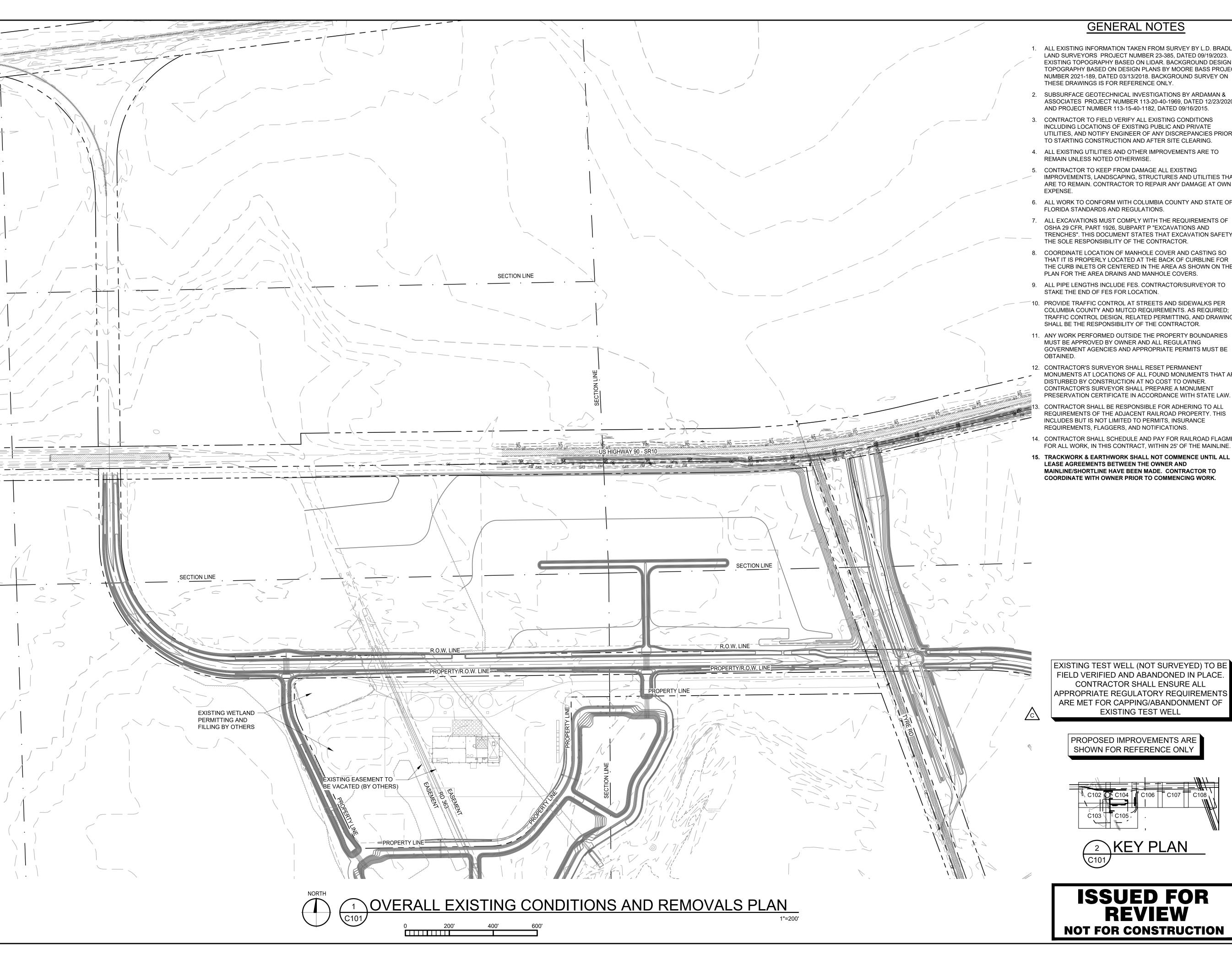
DRAWING TITLE:

TITLE SHEET AND **DRAWING INDEX** 

PROJECT NO: 230384 SCALE:

DRAWING NO: AS NOTED

ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 



#### **GENERAL NOTES**

- 1. ALL EXISTING INFORMATION TAKEN FROM SURVEY BY L.D. BRADLEY LAND SURVEYORS PROJECT NUMBER 23-385, DATED 09/19/2023. EXISTING TOPOGRAPHY BASED ON LIDAR. BACKGROUND DESIGN TOPOGRAPHY BASED ON DESIGN PLANS BY MOORE BASS PROJECT NUMBER 2021-189, DATED 03/13/2018. BACKGROUND SURVEY ON THESE DRAWINGS IS FOR REFERENCE ONLY.
- 2. SUBSURFACE GEOTECHNICAL INVESTIGATIONS BY ARDAMAN & ASSOCIATES PROJECT NUMBER 113-20-40-1969, DATED 12/23/2020 AND PROJECT NUMBER 113-15-40-1182, DATED 09/16/2015.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION AND AFTER SITE CLEARING.
- 4. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR TO KEEP FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN
- 6. ALL WORK TO CONFORM WITH COLUMBIA COUNTY AND STATE OF FLORIDA STANDARDS AND REGULATIONS.
- 7. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.
- 9. ALL PIPE LENGTHS INCLUDE FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.
- 10. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER COLUMBIA COUNTY AND MUTCD REQUIREMENTS. AS REQUIRED; TRAFFIC CONTROL DESIGN, RELATED PERMITTING, AND DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE
- 12. CONTRACTOR'S SURVEYOR SHALL RESET PERMANENT MONUMENTS AT LOCATIONS OF ALL FOUND MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION AT NO COST TO OWNER. CONTRACTOR'S SURVEYOR SHALL PREPARE A MONUMENT PRESERVATION CERTIFICATE IN ACCORDANCE WITH STATE LAW.
- REQUIREMENTS OF THE ADJACENT RAILROAD PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO PERMITS, INSURANCE REQUIREMENTS, FLAGGERS, AND NOTIFICATIONS.
- 14. CONTRACTOR SHALL SCHEDULE AND PAY FOR RAILROAD FLAGMEN FOR ALL WORK, IN THIS CONTRACT, WITHIN 25' OF THE MAINLINE.
- 15. TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441

www.vaaeng.com



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

Website: GreystoneConstruction.com

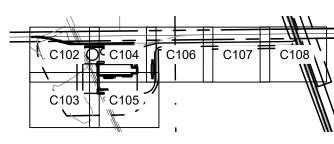
PROJECT:

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

NO	DATE	ISSUE/REVISION	BY			
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ			
В	12/11/2023	ISSUED FOR PERMIT	RCQ			
С	01/04/2024	ADDENDUM 1	RCQ			
D	09/11/2024	OWNER CHECK SET	RCQ			
CERT	TIEICATION:					
CER	CERTIFICATION:					

CONTRACTOR SHALL ENSURE AL APPROPRIATE REGULATORY REQUIREMENT ARE MET FOR CAPPING/ABANDONMENT OF **EXISTING TEST WELL** 

PROPOSED IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY





**ISSUED FOR REVIEW NOT FOR CONSTRUCTION** 

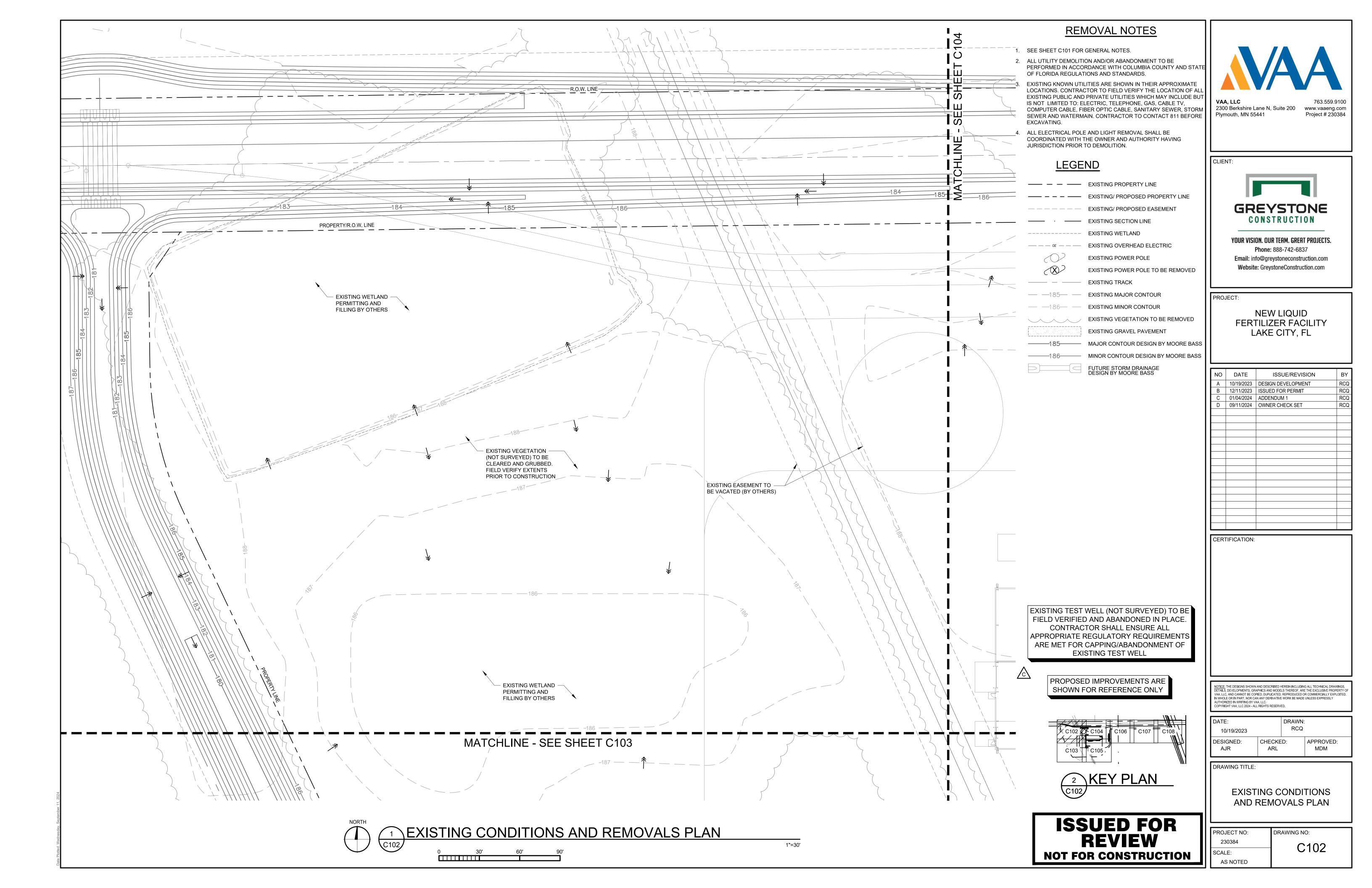
OTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS,
ETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY
AA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED
WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY
UTHORIZED IN WRITING BY VAA, LLC.
ODVDIGHT VAA LLC 2024 ALL DIGHTS DESEDVED

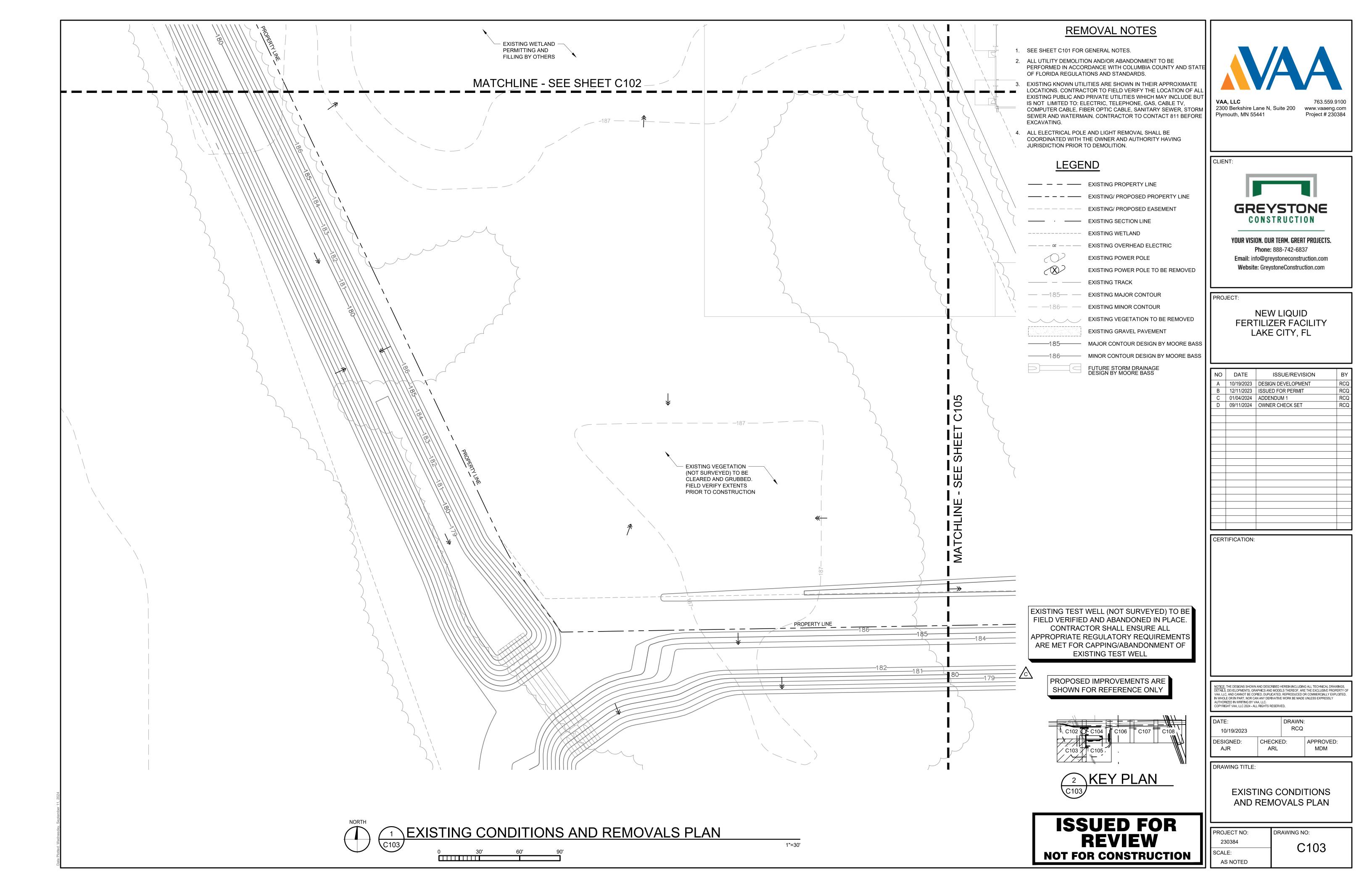
DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED:	CHECKE	L	APPROVED:
AJR	ARL	ED:	MDM

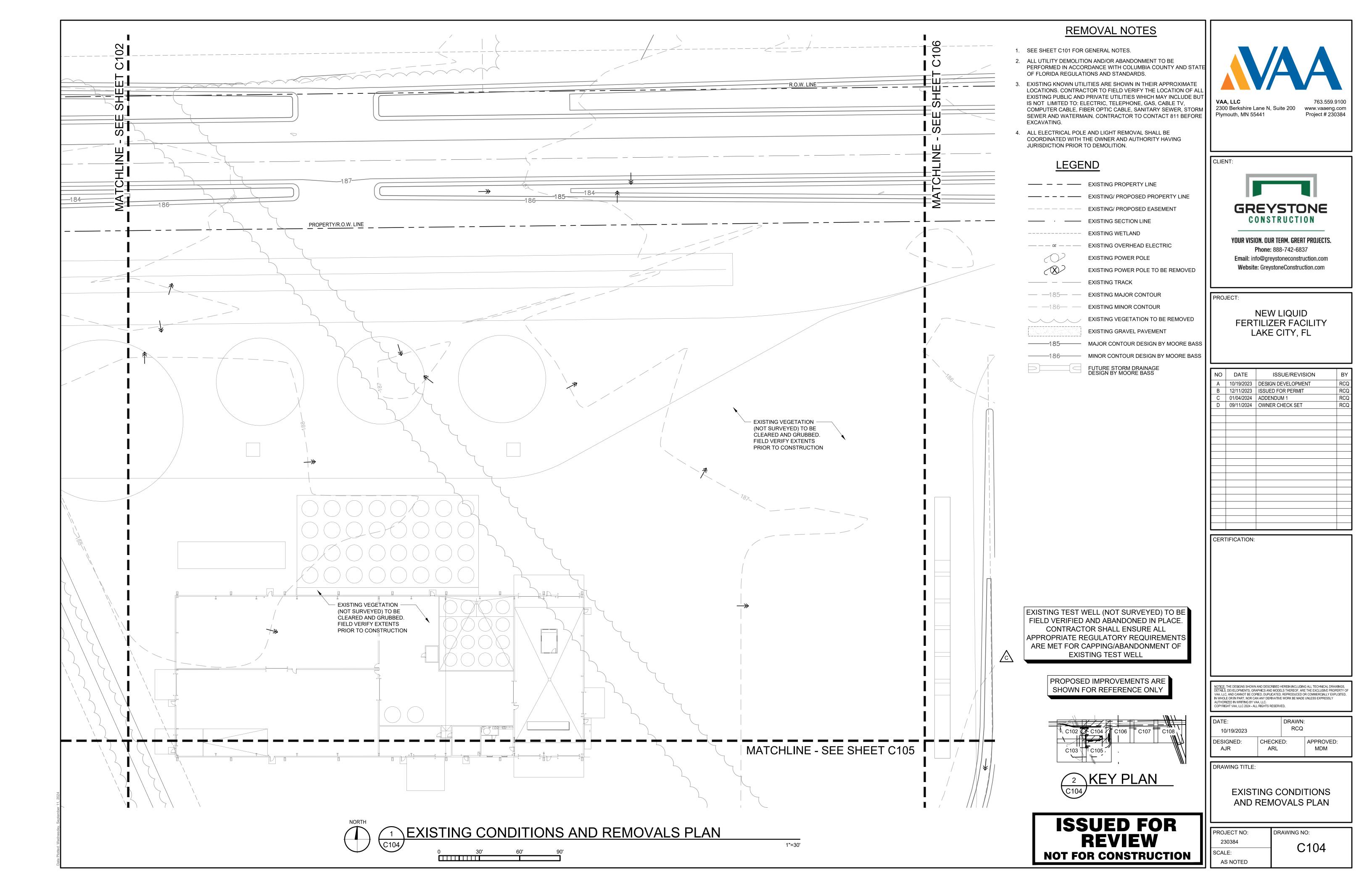
DRAWING TITLE:

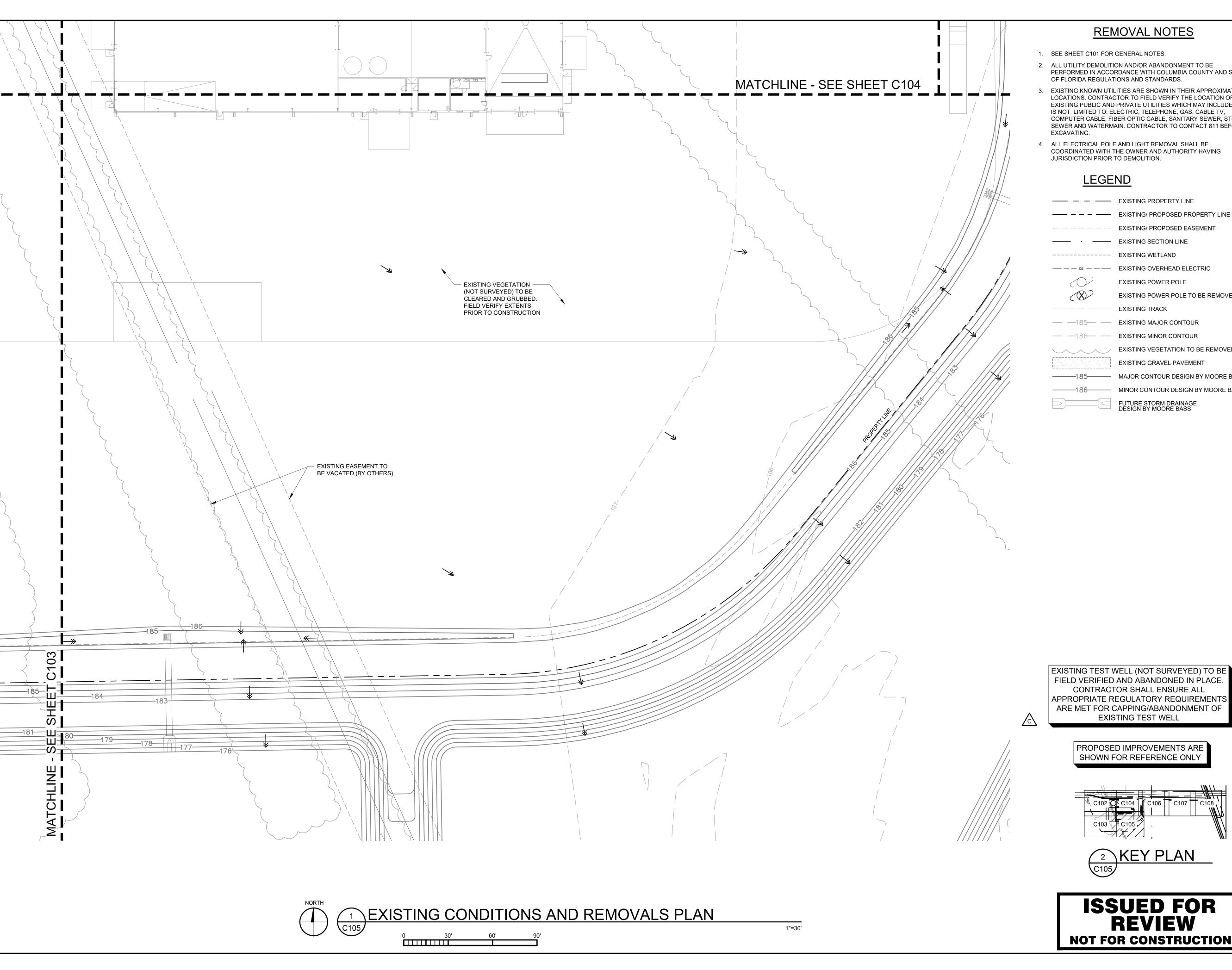
OVERALL EXISTING CONDITIONS AND REMOVALS PLAN

PROJECT NO:	DRAWING NO:
230384	C101
SCALE:	CIUI
AC NOTED	









#### REMOVAL NOTES

- 1. SEE SHEET C101 FOR GENERAL NOTES.
- 2. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STAT OF FLORIDA REGULATIONS AND STANDARDS.
- EXISTING KNOWN UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF AL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE
- 4. ALL ELECTRICAL POLE AND LIGHT REMOVAL SHALL BE COORDINATED WITH THE OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO DEMOLITION.

—— — — EXISTING PROPERTY LINE

— — — — EXISTING/ PROPOSED EASEMENT

---- EXISTING SECTION LINE

EXISTING POWER POLE

EXISTING POWER POLE TO BE REMOVED

— — 185— — EXISTING MAJOR CONTOUR

EXISTING VEGETATION TO BE REMOVED

**EXISTING GRAVEL PAVEMENT** 

————186——— MINOR CONTOUR DESIGN BY MOORE BASS

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441

www.vaaeng.com



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

Website: GreystoneConstruction.com

PROJECT:

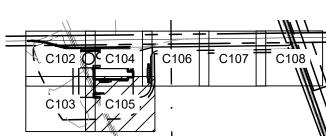
CERTIFICATION:

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

10/19/2023 12/11/2023	DESIGN DEVELOPMENT	RCQ
12/11/2023		NOW
	ISSUED FOR PERMIT	RCQ
01/04/2024	ADDENDUM 1	RCQ
09/11/2024	OWNER CHECK SET	RCQ
-		

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





**ISSUED FOR REVIEW NOT FOR CONSTRUCTION** 

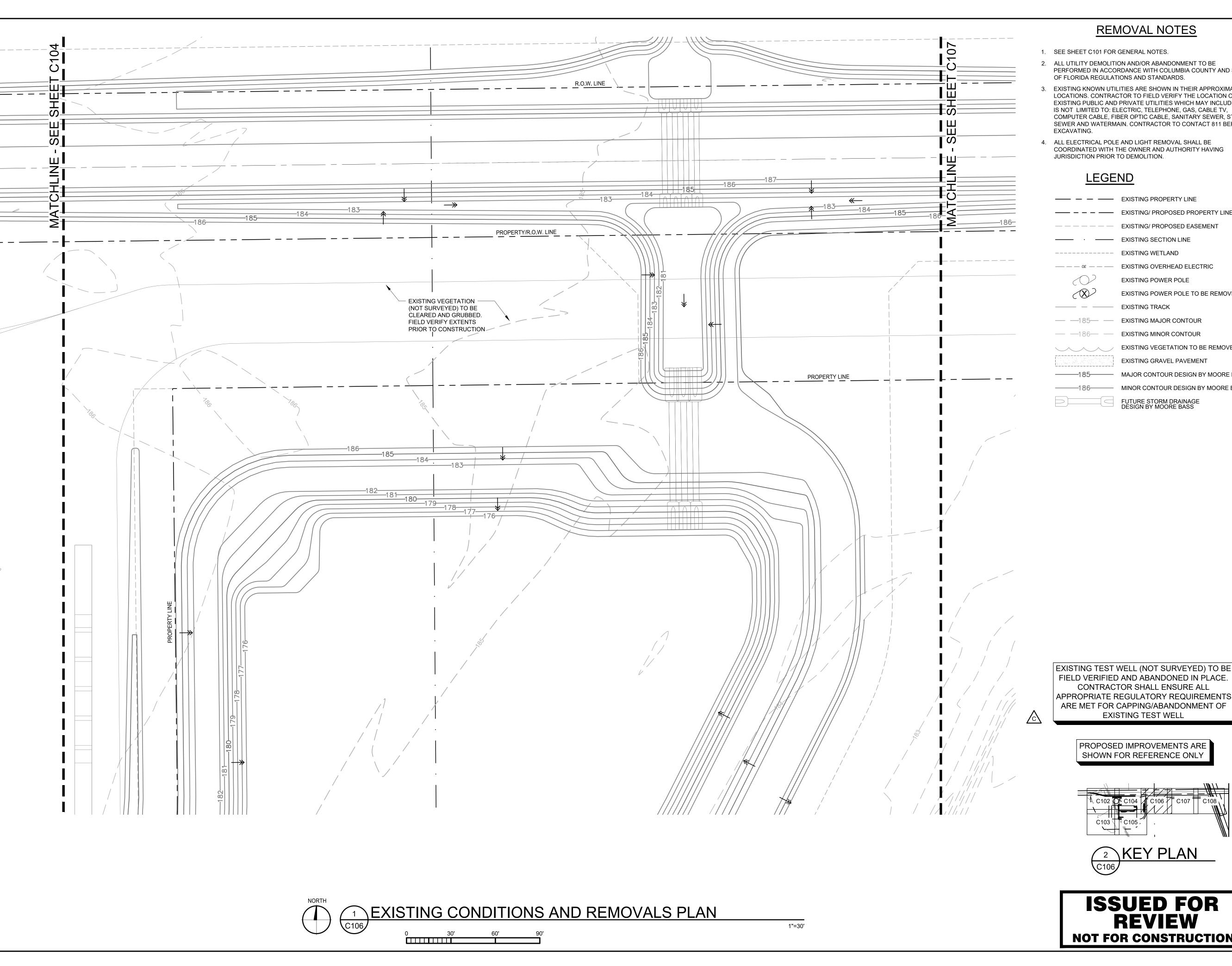
<u>OTICE:</u> THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS,
ETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY
AA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED
WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY
UTHORIZED IN WRITING BY VAA, LLC.
OPYRIGHT VAA LLC 2024 - ALL RIGHTS RESERVED

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

**EXISTING CONDITIONS** AND REMOVALS PLAN

PROJECT NO: DRAWING NO: 230384 C105 SCALE: AS NOTED



#### **REMOVAL NOTES**

- 1. SEE SHEET C101 FOR GENERAL NOTES.
- 2. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STA OF FLORIDA REGULATIONS AND STANDARDS.
- EXISTING KNOWN UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF AL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE
- COORDINATED WITH THE OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO DEMOLITION.

—— — — EXISTING/ PROPOSED PROPERTY LINE

— — — — — EXISTING/ PROPOSED EASEMENT

—— · —— EXISTING SECTION LINE

---- EXISTING WETLAND

EXISTING POWER POLE

EXISTING POWER POLE TO BE REMOVED

— — 185— — EXISTING MAJOR CONTOUR

— — 186— — EXISTING MINOR CONTOUR

EXISTING VEGETATION TO BE REMOVED

**EXISTING GRAVEL PAVEMENT** 

185——185— MAJOR CONTOUR DESIGN BY MOORE BASS 

FUTURE STORM DRAINAGE DESIGN BY MOORE BASS

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441

www.vaaeng.com Project # 230384



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

Website: GreystoneConstruction.com

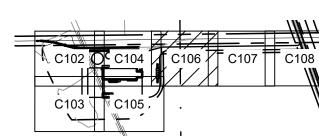
PROJECT:

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

NO	DATE	ISSUE/REVISION	BY
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ

CERTIFICATION:

PROPOSED IMPROVEMENTS ARE





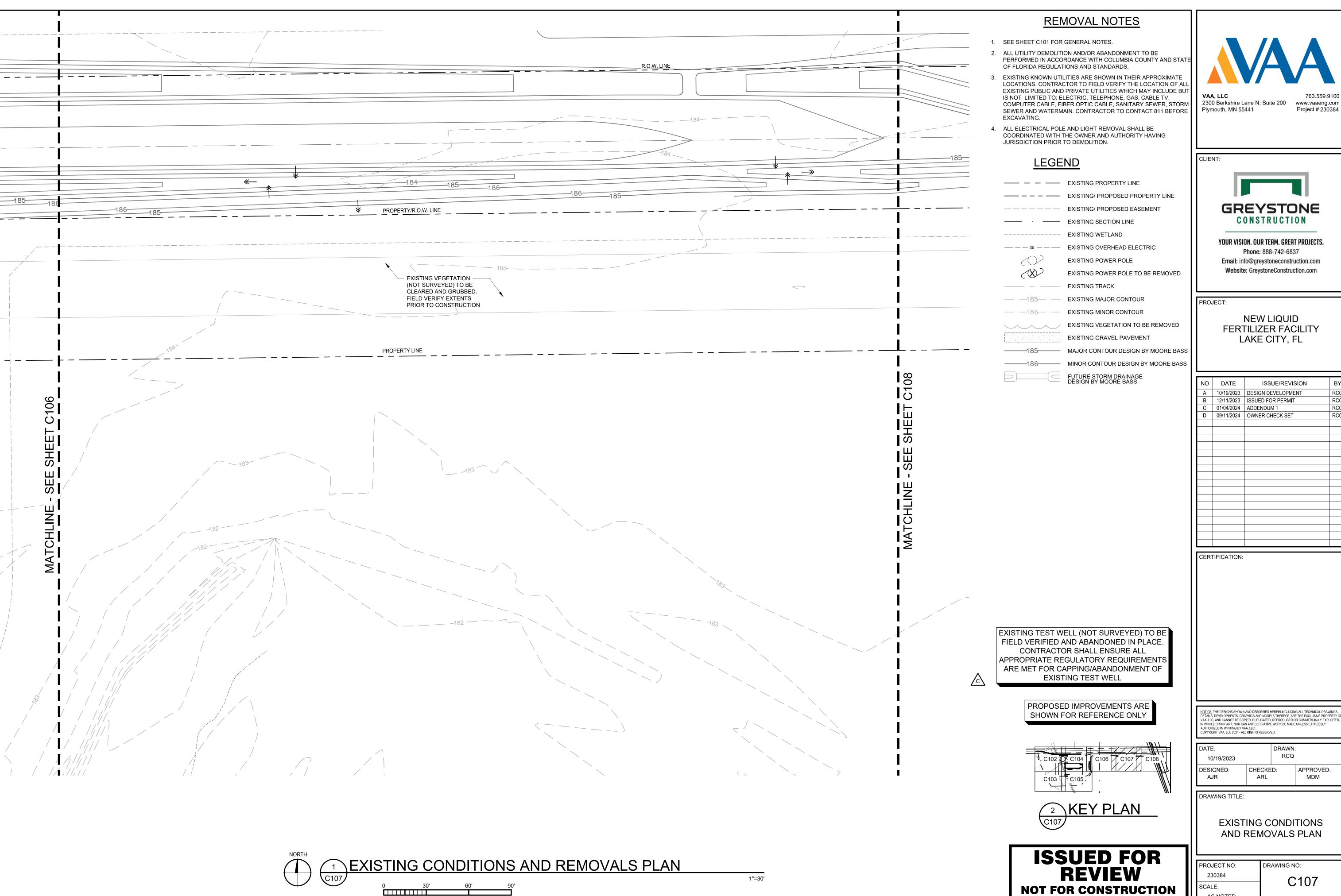
**ISSUED FOR REVIEW NOT FOR CONSTRUCTION**  NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED:	CHECKE	ED:	APPROVED:
AJR	ARL		MDM

DRAWING TITLE:

**EXISTING CONDITIONS** AND REMOVALS PLAN

PROJECT NO: DRAWING NO: 230384 C106 SCALE: AS NOTED



www.vaaeng.com Project # 230384



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

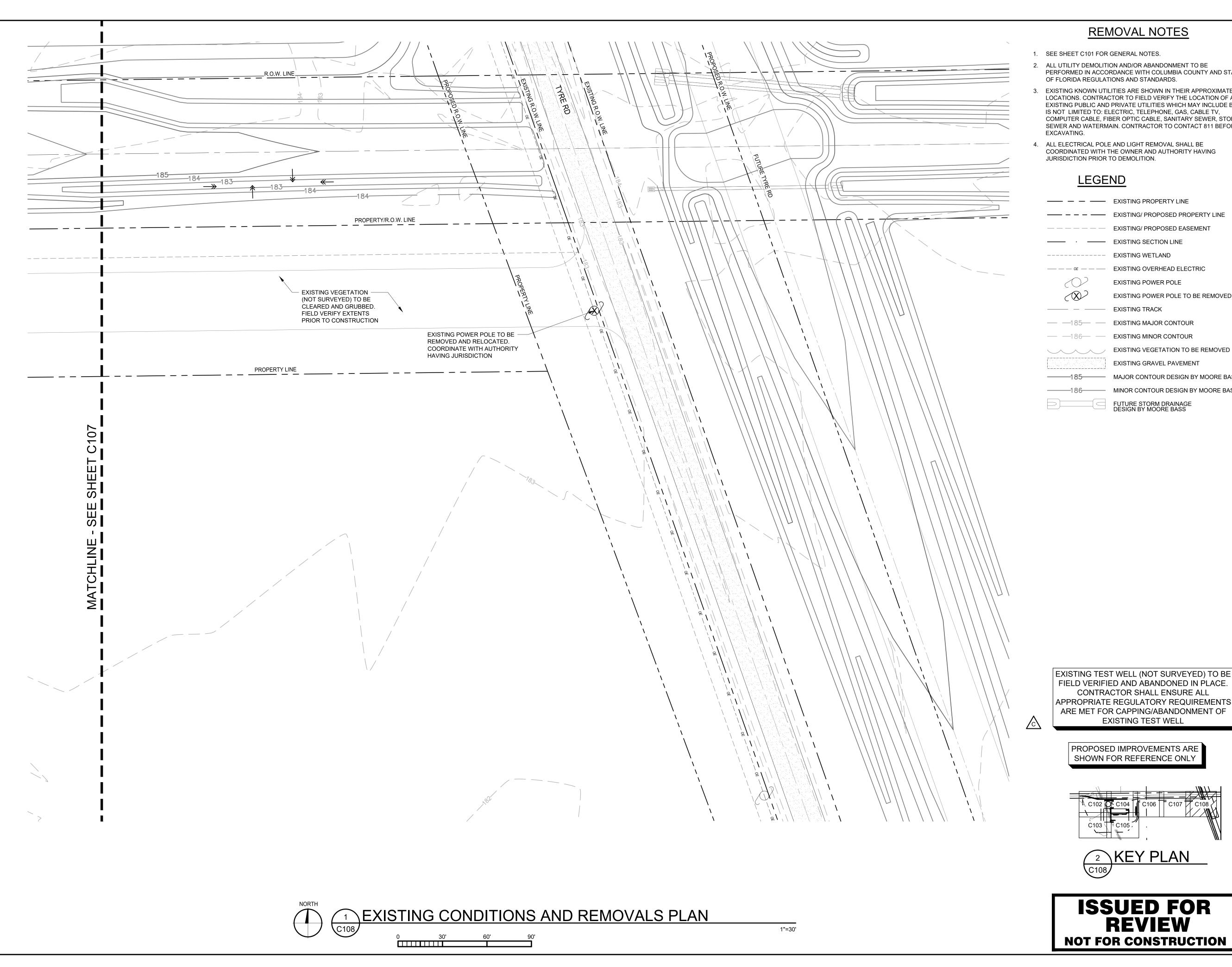
**NEW LIQUID** FERTILIZER FACILITY LAKE CITY, FL

NO	DATE	ISSUE/REVISION	BY
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ

DATE:		DRAWN:	
10/19/2023		RCQ	
DESIGNED: AJR	CHECKE ARL	D:	APPROVED: MDM

**EXISTING CONDITIONS** AND REMOVALS PLAN

PROJECT NO: DRAWING NO: C107 AS NOTED



### REMOVAL NOTES

- 1. SEE SHEET C101 FOR GENERAL NOTES.
- ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STAT OF FLORIDA REGULATIONS AND STANDARDS.
- EXISTING KNOWN UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF AL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE
- COORDINATED WITH THE OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO DEMOLITION.

EXISTING/ PROPOSED EASEMENT

—— EXISTING SECTION LINE

EXISTING POWER POLE

EXISTING POWER POLE TO BE REMOVED

— —185— — EXISTING MAJOR CONTOUR

EXISTING VEGETATION TO BE REMOVED

**EXISTING GRAVEL PAVEMENT** 

— MAJOR CONTOUR DESIGN BY MOORE BASS 

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441



www.vaaeng.com

Project # 230384

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

PROJECT:

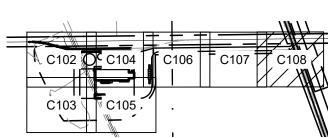
**NEW LIQUID** FERTILIZER FACILITY LAKE CITY, FL

NO	DATE	ISSUE/REVISION	BY
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ

CERTIFICATION:

CONTRACTOR SHALL ENSURE ALL APPROPRIATE REGULATORY REQUIREMENT ARE MET FOR CAPPING/ABANDONMENT OF **EXISTING TEST WELL** 

PROPOSED IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY





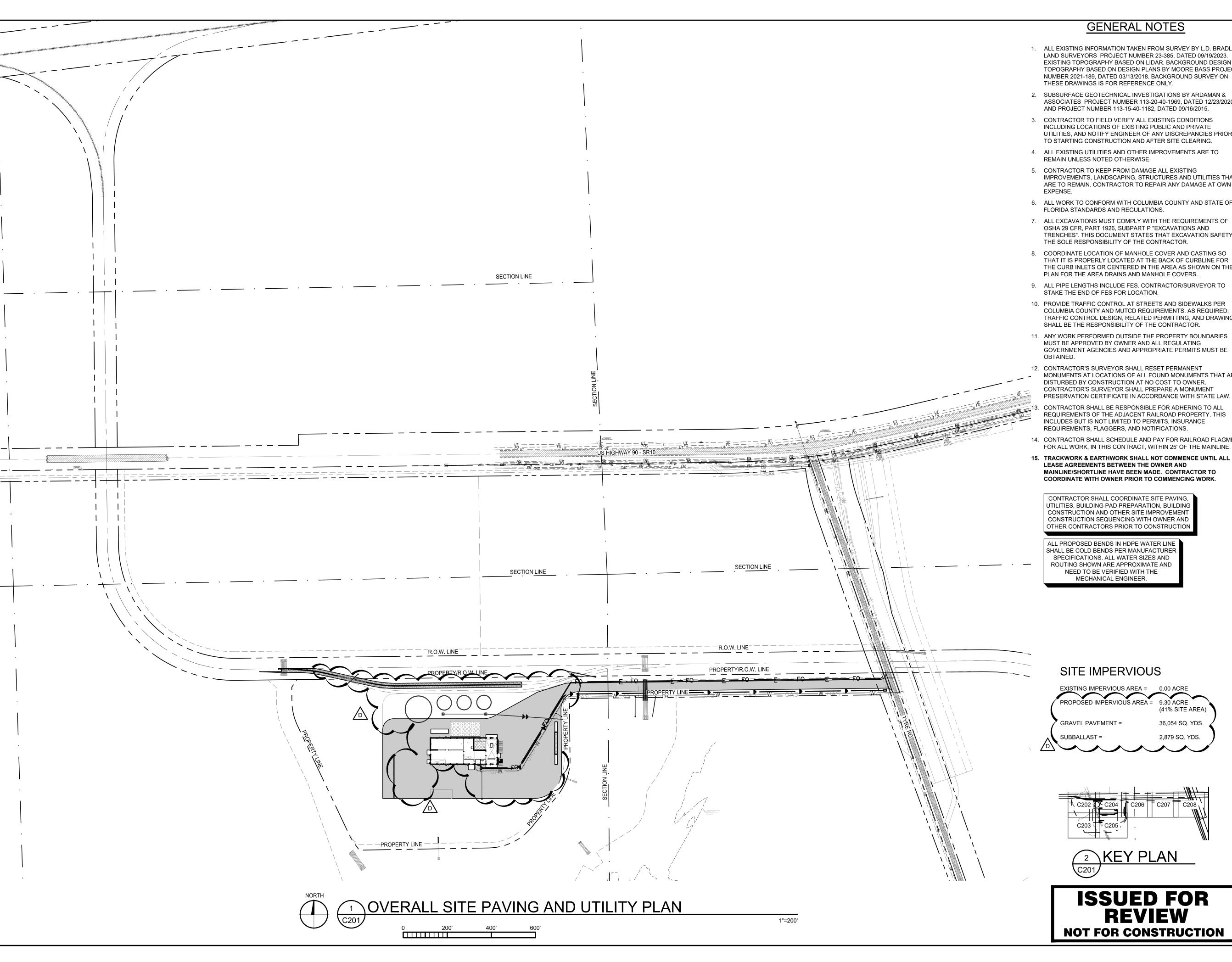
**ISSUED FOR REVIEW NOT FOR CONSTRUCTION**  NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED:	CHECKE	D:	APPROVED:
AJR	ARL		MDM

DRAWING TITLE:

**EXISTING CONDITIONS** AND REMOVALS PLAN

PROJECT NO: DRAWING NO: 230384 C108 SCALE: AS NOTED



#### **GENERAL NOTES**

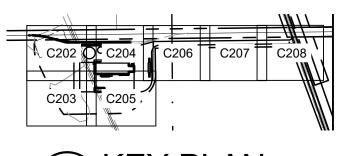
- 1. ALL EXISTING INFORMATION TAKEN FROM SURVEY BY L.D. BRADLEY LAND SURVEYORS PROJECT NUMBER 23-385, DATED 09/19/2023. EXISTING TOPOGRAPHY BASED ON LIDAR. BACKGROUND DESIGN TOPOGRAPHY BASED ON DESIGN PLANS BY MOORE BASS PROJECT NUMBER 2021-189, DATED 03/13/2018. BACKGROUND SURVEY ON THESE DRAWINGS IS FOR REFERENCE ONLY.
- 2. SUBSURFACE GEOTECHNICAL INVESTIGATIONS BY ARDAMAN & ASSOCIATES PROJECT NUMBER 113-20-40-1969, DATED 12/23/2020 AND PROJECT NUMBER 113-15-40-1182, DATED 09/16/2015.
- 3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION AND AFTER SITE CLEARING.
- 4. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR TO KEEP FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN
- 6. ALL WORK TO CONFORM WITH COLUMBIA COUNTY AND STATE OF FLORIDA STANDARDS AND REGULATIONS.
- 7. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.
- 9. ALL PIPE LENGTHS INCLUDE FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.
- 10. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER COLUMBIA COUNTY AND MUTCD REQUIREMENTS. AS REQUIRED; TRAFFIC CONTROL DESIGN, RELATED PERMITTING, AND DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE
- 12. CONTRACTOR'S SURVEYOR SHALL RESET PERMANENT MONUMENTS AT LOCATIONS OF ALL FOUND MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION AT NO COST TO OWNER. CONTRACTOR'S SURVEYOR SHALL PREPARE A MONUMENT PRESERVATION CERTIFICATE IN ACCORDANCE WITH STATE LAW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL REQUIREMENTS OF THE ADJACENT RAILROAD PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO PERMITS, INSURANCE REQUIREMENTS, FLAGGERS, AND NOTIFICATIONS.
- 14. CONTRACTOR SHALL SCHEDULE AND PAY FOR RAILROAD FLAGMEN FOR ALL WORK, IN THIS CONTRACT, WITHIN 25' OF THE MAINLINE.
- 15. TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.

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

ALL PROPOSED BENDS IN HDPE WATER LINE SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER

#### SITE IMPERVIOUS

EXISTING IMPERVIOUS AREA = 0.00 ACRE (41% SITE AREA) GRAVEL PAVEMENT = 36,054 SQ. YDS. 2,879 SQ. YDS.





**ISSUED FOR REVIEW NOT FOR CONSTRUCTION** 



www.vaaeng.com

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441



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
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC.

COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

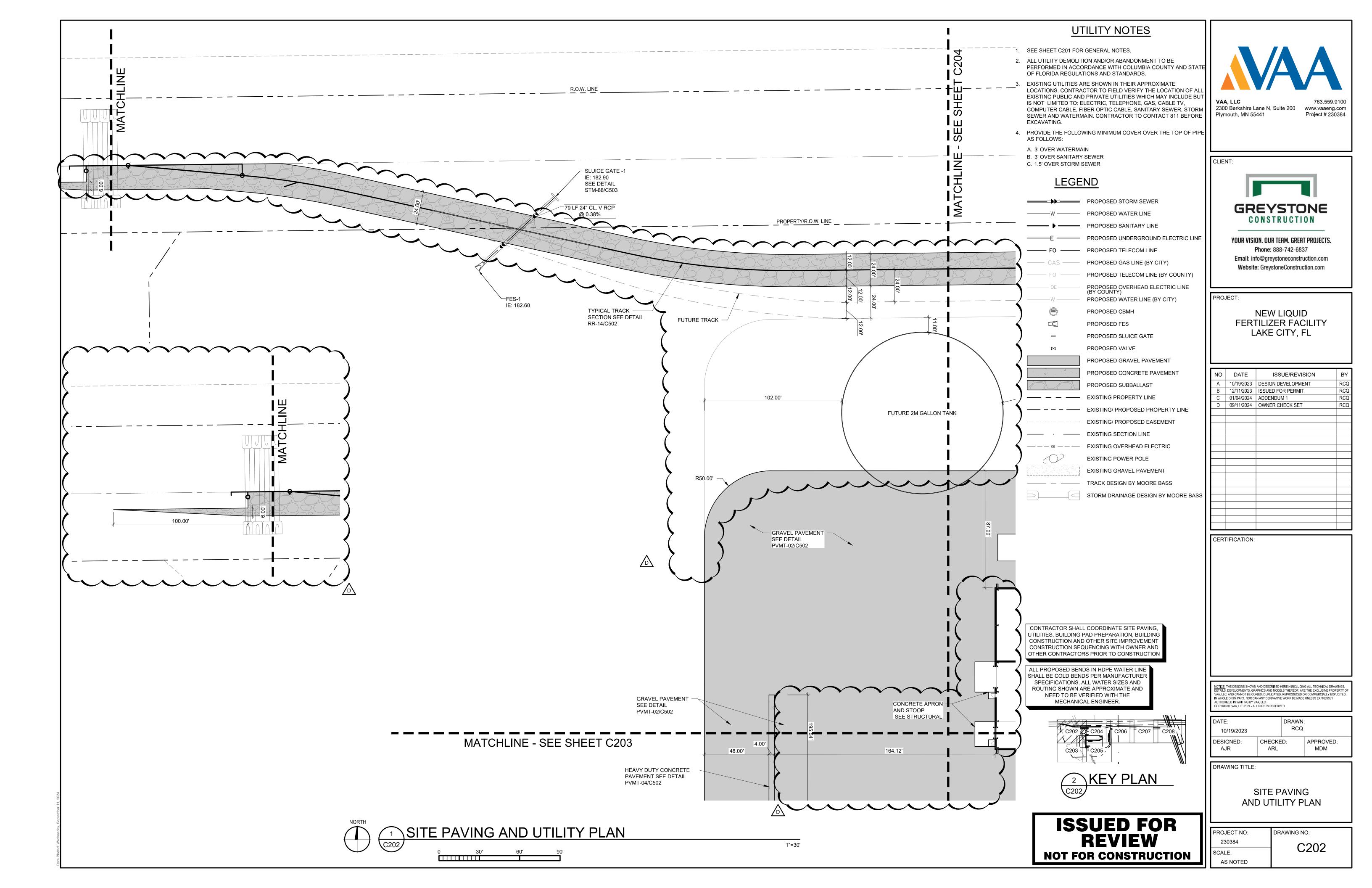
DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	:D:	APPROVED: MDM

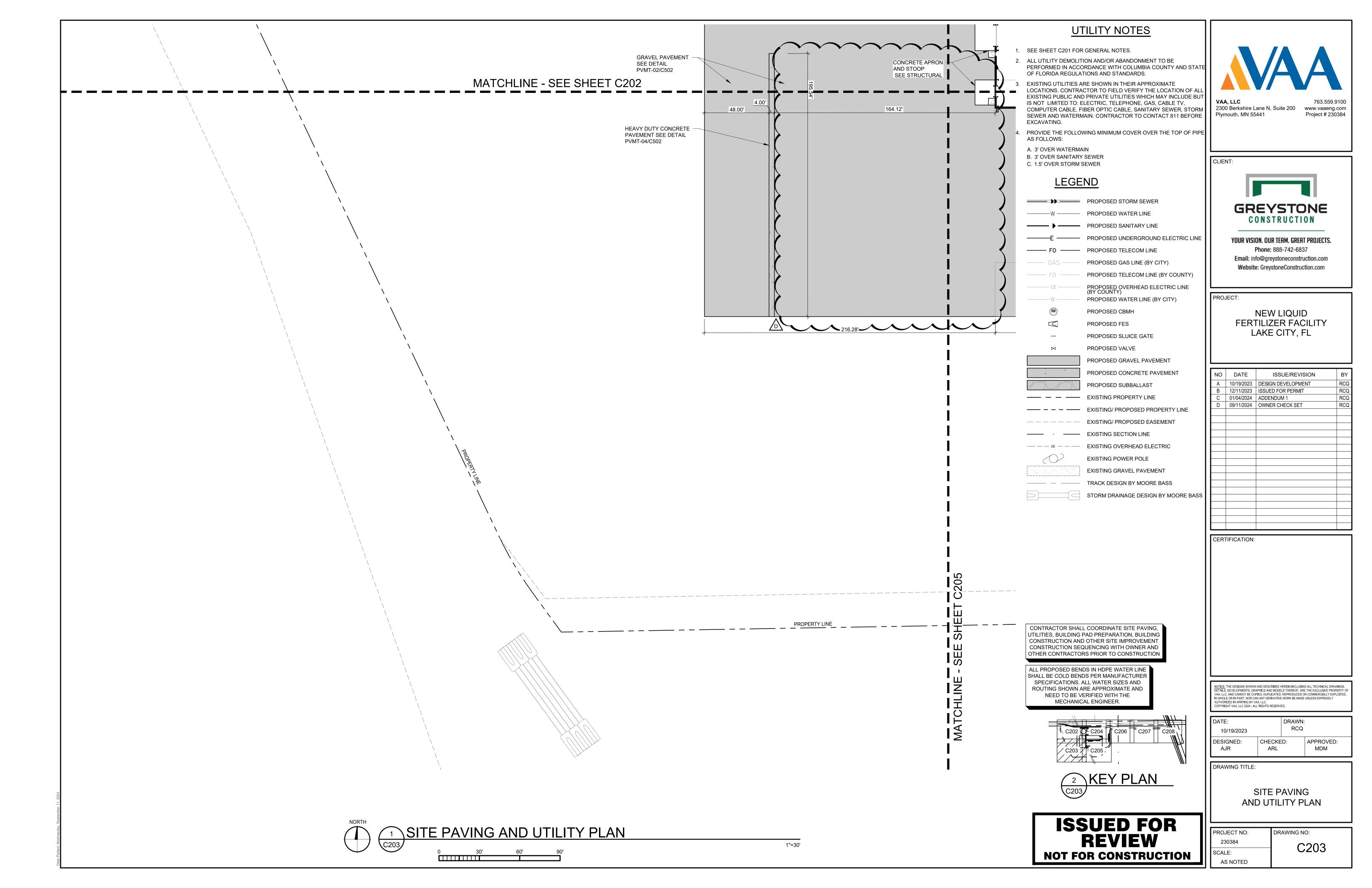
DRAWING TITLE:

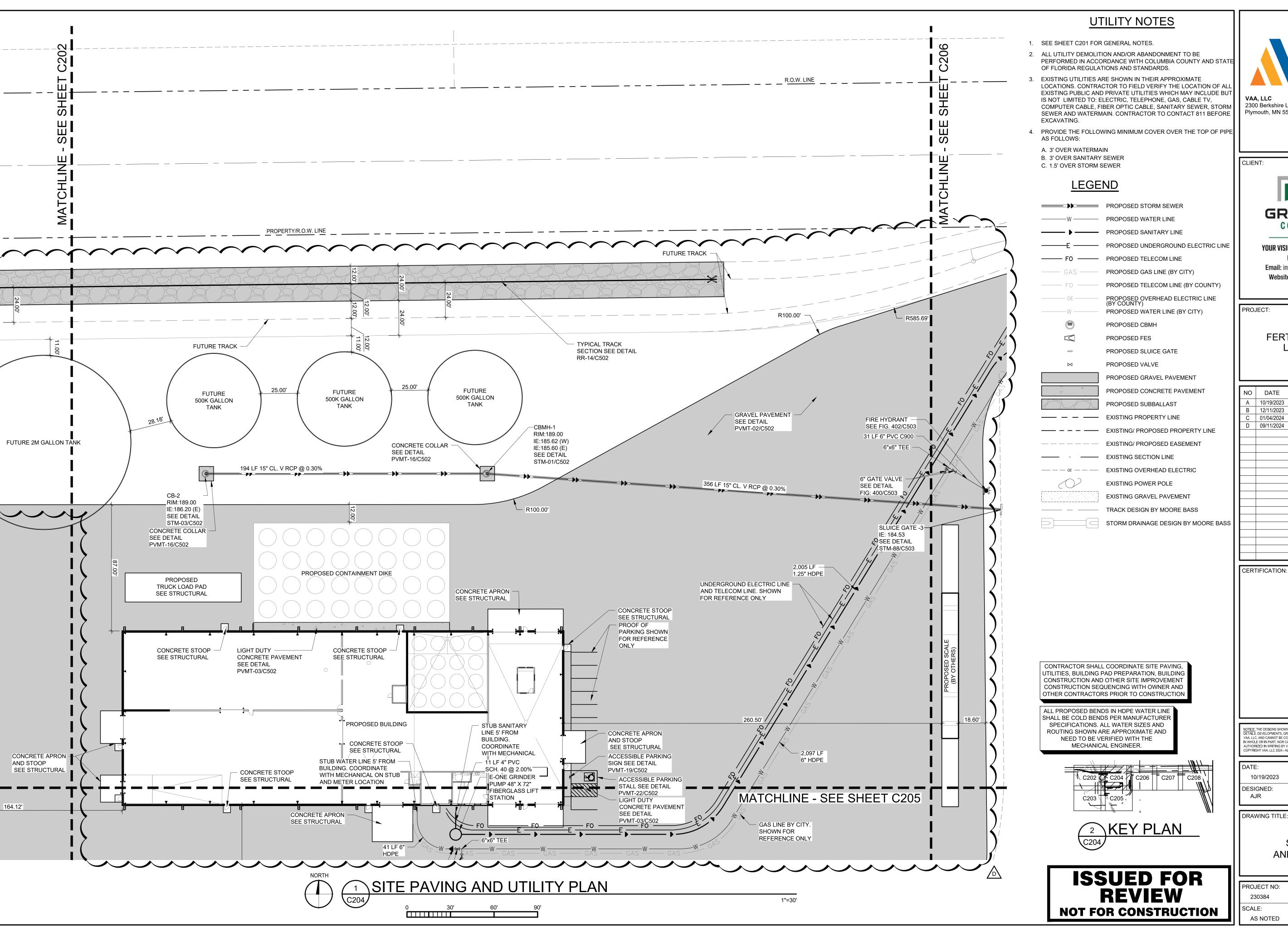
CERTIFICATION:

**OVERALL SITE PAVING** AND UTILITY PLAN

,		
	PROJECT NO:	DRAWING NO:
	230384	C201
	SCALE:	C201
	AS NOTED	









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

**GREYSTONE** 

YOUR VISION. OUR TEAM. GREAT PROJECTS.

CONSTRUCTION

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

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

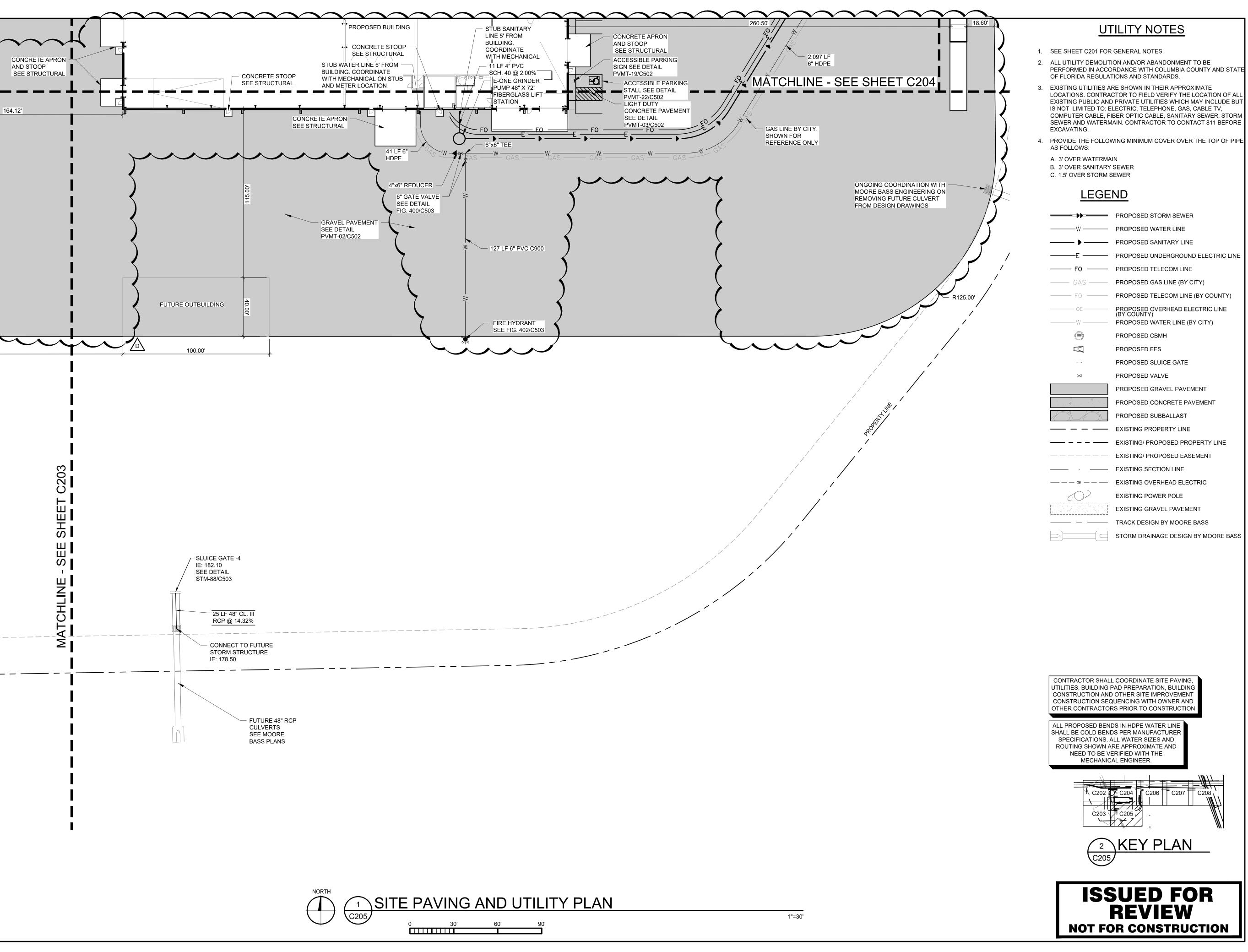
NO	DATE	ISSUE/REVISION	BY
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

SITE PAVING AND UTILITY PLAN

ı		
l	PROJECT NO:	DRAWING NO:
l	230384	C204
l	SCALE:	C204
ı	AS NOTED	



Plymouth, MN 55441

763.559.9100 2300 Berkshire Lane N, Suite 200 www.vaaeng.com Project # 230384



YOUR VISION. OUR TEAM. GREAT PROJECTS.

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

PROJECT:

CERTIFICATION:

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

NO	DATE	ISSUE/REVISION	BY
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ

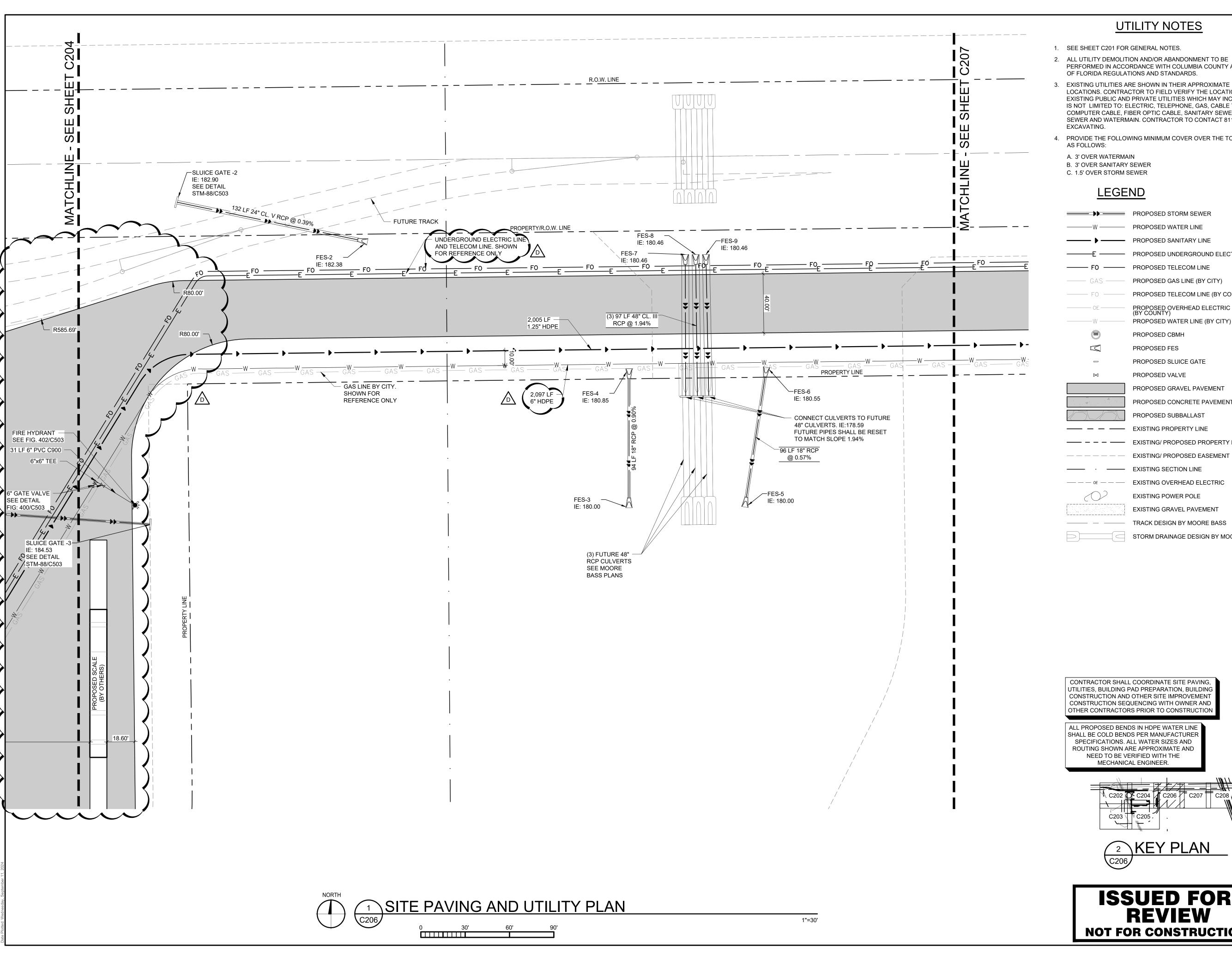
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY ( VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC.
COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	D:	APPROVED: MDM

DRAWING TITLE:

SITE PAVING AND UTILITY PLAN

PROJECT NO: DRAWING NO: 230384 C205 SCALE: AS NOTED



#### **UTILITY NOTES**

- 1. SEE SHEET C201 FOR GENERAL NOTES.
- 2. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STA OF FLORIDA REGULATIONS AND STANDARDS.
- 3. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF AL
- EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE
- 4. PROVIDE THE FOLLOWING MINIMUM COVER OVER THE TOP OF PIPE AS FOLLOWS:
- A. 3' OVER WATERMAIN B. 3' OVER SANITARY SEWER

#### **LEGEND**

PROPOSED WATER LINE PROPOSED SANITARY LINE — 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

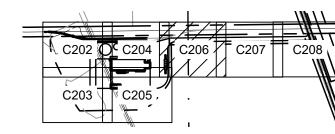
$\bowtie$	PROPOSED VALVE
	PROPOSED GRAVEL PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED SUBBALLAST
	EXISTING PROPERTY LINE
	EXISTING/ PROPOSED PROPERTY LINE

	EXISTING/THOI COLD EXCEMENT
·	EXISTING SECTION LINE
OE	EXISTING OVERHEAD ELECTRIC
	EXISTING POWER POLE

EXISTING POWER POLE
EXISTING GRAVEL PAVEMENT
 TRACK DESIGN BY MOORE BASS
STORM DRAINAGE DESIGN BY MOORE BAS

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

ALL PROPOSED BENDS IN HDPE WATER LINE SHALL BE COLD BENDS PER MANUFACTUREI SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.





**ISSUED FOR REVIEW NOT FOR CONSTRUCTION** 



763.559.9100

www.vaaeng.com

Project # 230384

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441



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			
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ			
В	12/11/2023	ISSUED FOR PERMIT	RCQ			
С	01/04/2024	ADDENDUM 1	RCQ			
D	09/11/2024	OWNER CHECK SET	RCQ			
CERTIFICATION:						

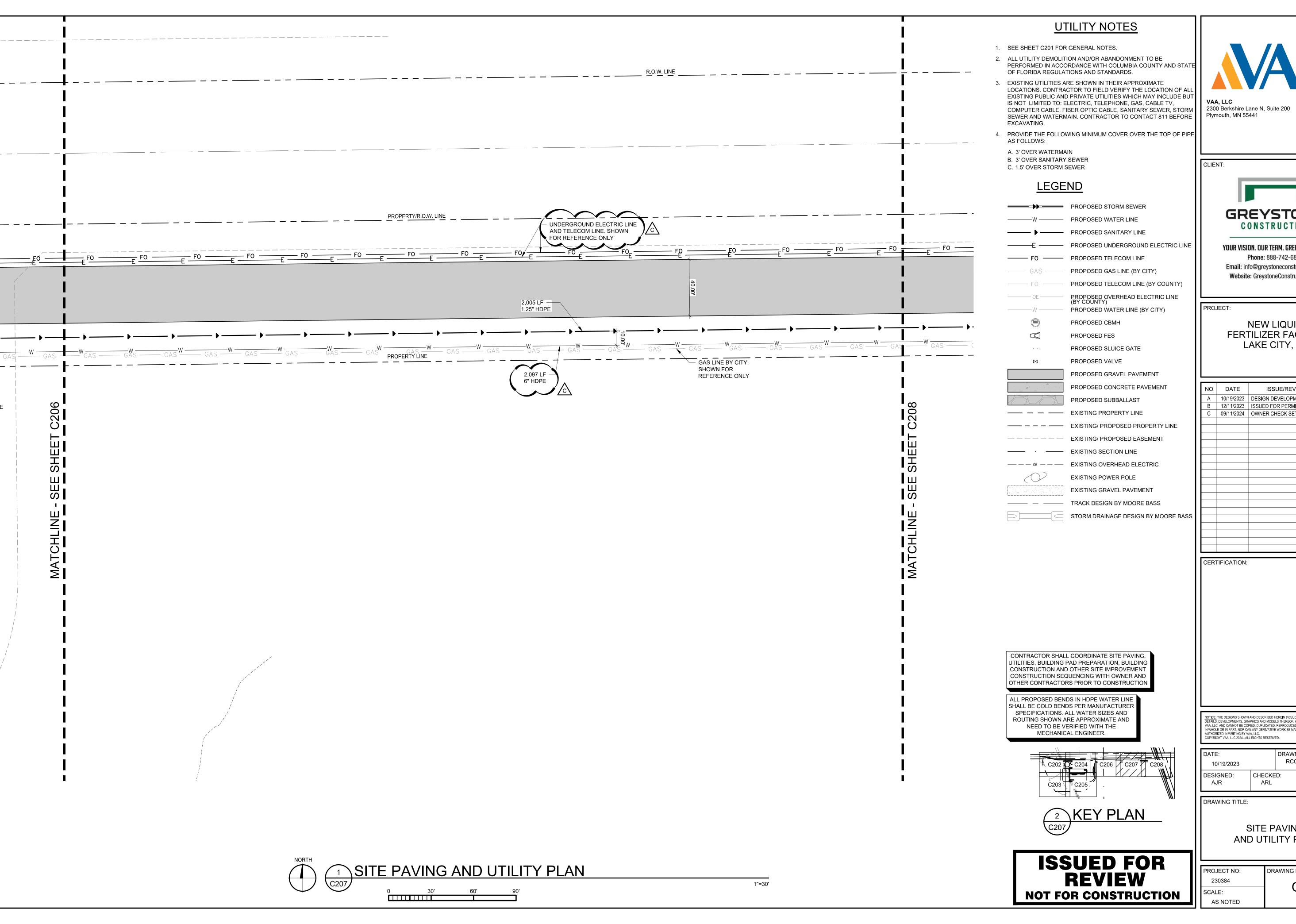
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

Ιı				
П	DATE:		DRAWN:	
	10/19/2023		RCQ	
	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM
			:D:	

DRAWING TITLE:

SITE PAVING AND UTILITY PLAN

DRAWING NO: PROJECT NO: 230384 C206 SCALE: AS NOTED



763.559.9100 www.vaaeng.com Project # 230384



YOUR VISION. OUR TEAM. GREAT PROJECTS.

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

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

NO	DATE	ISSUE/REVISION	BY
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	09/11/2024	OWNER CHECK SET	RCQ

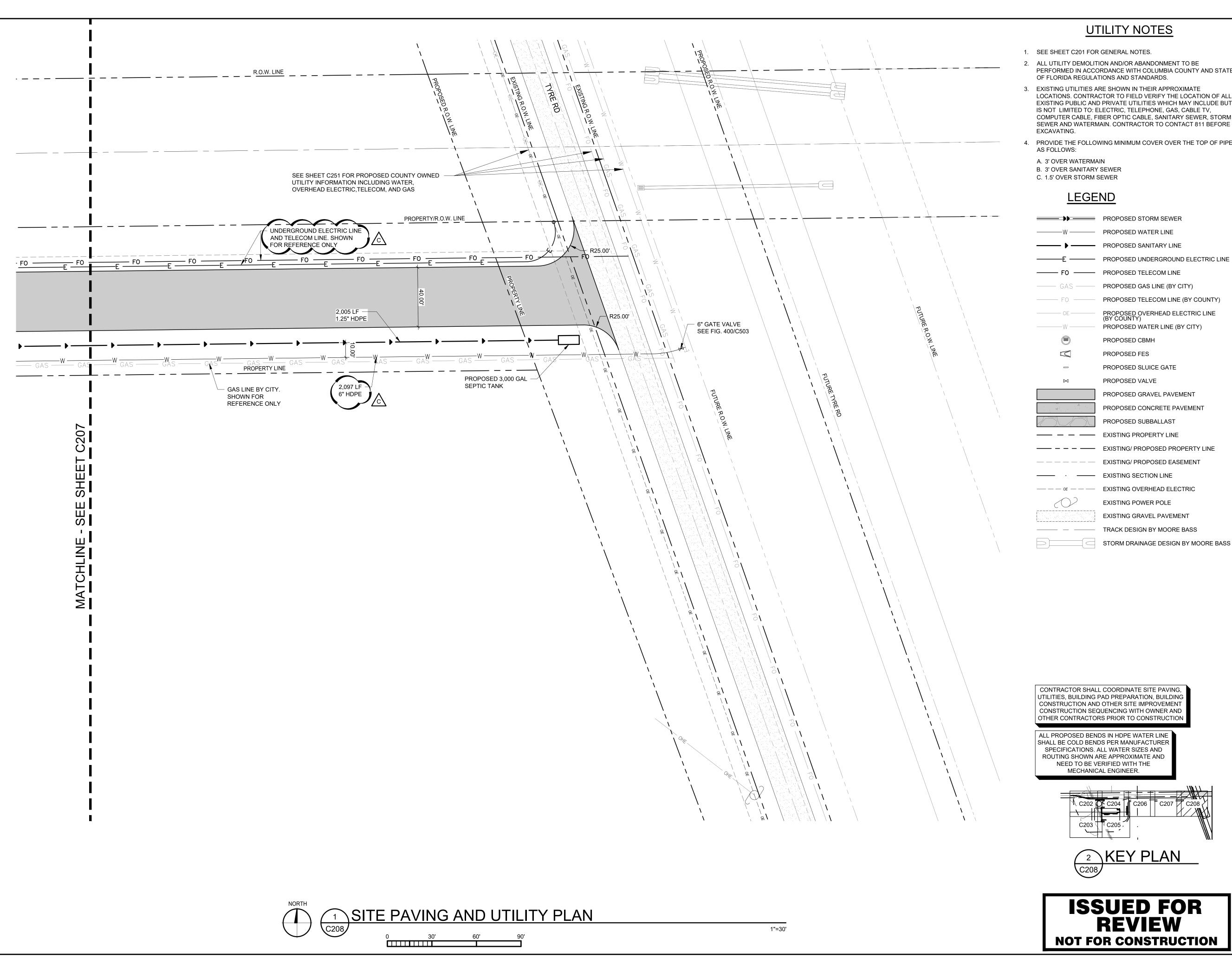
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED:	CHECKE	D:	APPROVED:
AJR	ARL		MDM

DRAWING TITLE:

SITE PAVING AND UTILITY PLAN

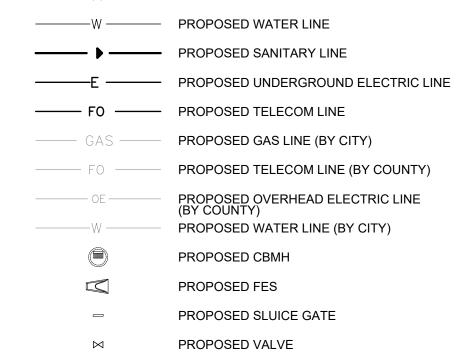
PROJECT NO: DRAWING NO: C207



**UTILITY NOTES** 

- 1. SEE SHEET C201 FOR GENERAL NOTES.
- 2. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STA OF FLORIDA REGULATIONS AND STANDARDS.
- 3. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF AL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE
  - PROVIDE THE FOLLOWING MINIMUM COVER OVER THE TOP OF PIPE

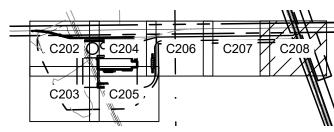
B. 3' OVER SANITARY SEWER



Δ	PROPOSED CONCRETE PAVEMENT
	PROPOSED SUBBALLAST
	EXISTING PROPERTY LINE
	EXISTING/ PROPOSED PROPERTY LINE
	EXISTING/ PROPOSED EASEMENT
·	EXISTING SECTION LINE
OE	EXISTING OVERHEAD ELECTRIC
	EXISTING POWER POLE
	EXISTING GRAVEL PAVEMENT
	TRACK 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

ALL PROPOSED BENDS IN HDPE WATER LINE SHALL BE COLD BENDS PER MANUFACTUREI SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.





ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 



Plymouth, MN 55441

763.559.9100 2300 Berkshire Lane N, Suite 200 www.vaaeng.com Project # 230384

**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
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	09/11/2024	OWNER CHECK SET	RCQ

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC.
COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

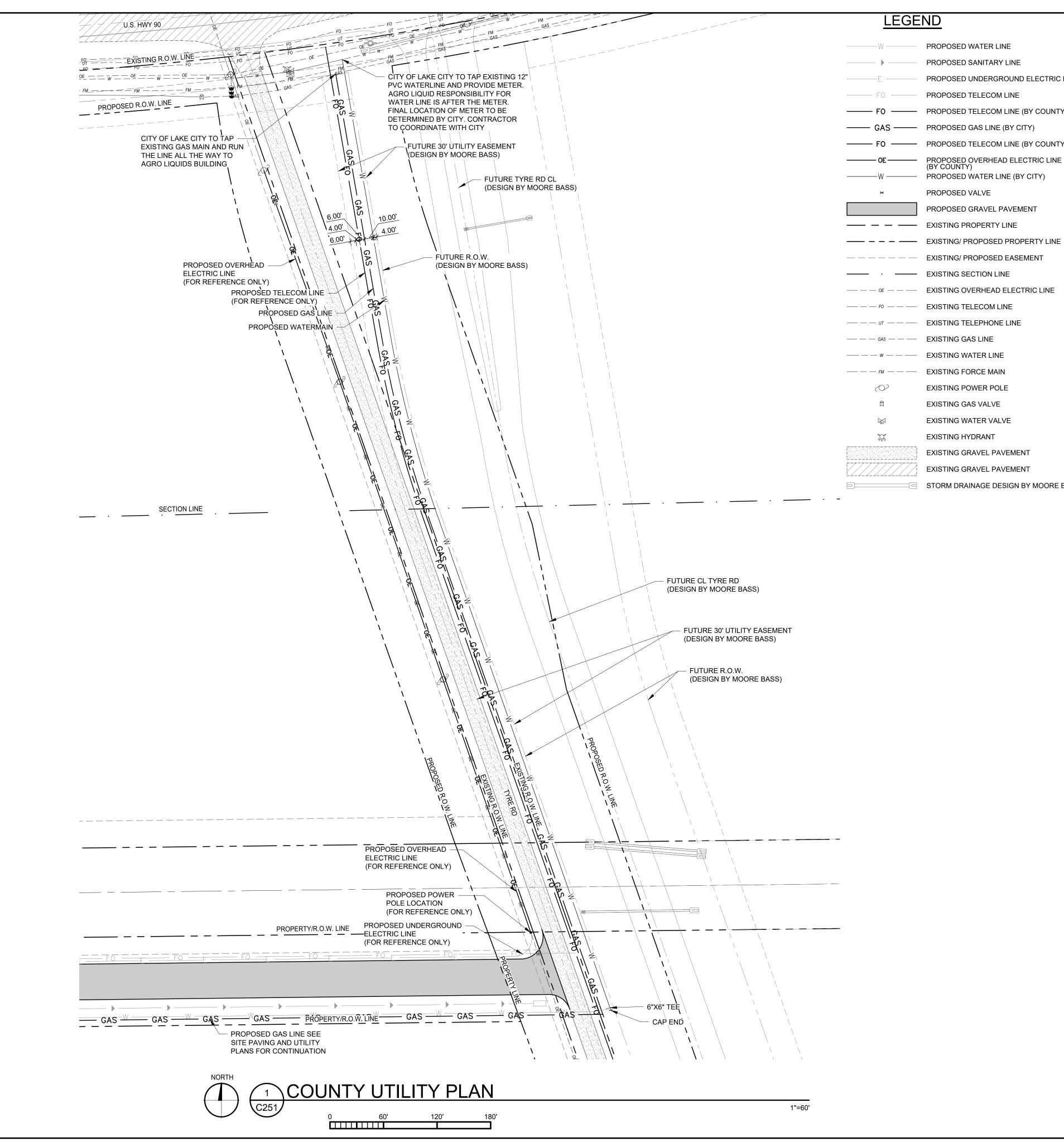
ı				
ı	DATE:		DRAWN:	
	10/19/2023		RCQ	
	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

CERTIFICATION:

SITE PAVING AND UTILITY PLAN

'		
	PROJECT NO:	DRAWING NO:
	230384	C200
	SCALE:	C208
	AS NOTED	



#### LEGEND

PROPOSED WATER LINE PROPOSED SANITARY LINE PROPOSED UNDERGROUND ELECTRIC LINE PROPOSED TELECOM LINE PROPOSED TELECOM LINE (BY COUNTY)

----- GAS ----- PROPOSED GAS LINE (BY CITY) — FO — PROPOSED TELECOM LINE (BY COUNTY)

PROPOSED OVERHEAD ELECTRIC LINE PROPOSED WATER LINE (BY CITY)

PROPOSED VALVE PROPOSED GRAVEL PAVEMENT

—— — — EXISTING PROPERTY LINE

— — — — EXISTING/ PROPOSED EASEMENT

—— EXISTING SECTION LINE — — — OE — — EXISTING OVERHEAD ELECTRIC LINE

— — — FO — — EXISTING TELECOM LINE — — — UT — — EXISTING TELEPHONE LINE

— — — GAS — — EXISTING GAS LINE — — — w — — EXISTING WATER LINE

EXISTING POWER POLE

EXISTING GAS VALVE EXISTING WATER VALVE

EXISTING HYDRANT

EXISTING GRAVEL PAVEMENT **EXISTING GRAVEL PAVEMENT** 

STORM DRAINAGE DESIGN BY MOORE BASS

1. ALL EXISTING INFORMATION TAKEN FROM SURVEY BY L.D. BRADLEY LAND SURVEYORS PROJECT NUMBER 23-385, DATED 09/19/2023. EXISTING TOPOGRAPHY BASED ON LIDAR. BACKGROUND DESIGN TOPOGRAPHY BASED ON DESIGN PLANS BY MOORE BASS PROJECT NUMBER 2021-189, DATED 03/13/2018. BACKGROUND SURVEY ON THESE DRAWINGS IS FOR REFERENCE ONLY.

**GENERAL NOTES** 

2. SUBSURFACE GEOTECHNICAL INVESTIGATIONS BY ARDAMAN & ASSOCIATES PROJECT NUMBER 113-20-40-1969, DATED 12/23/2020 AND PROJECT NUMBER 113-15-40-1182, DATED 09/16/2015.

CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR

4. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.

TO STARTING CONSTRUCTION AND AFTER SITE CLEARING.

5. CONTRACTOR TO KEEP FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN EXPENSE.

6. ALL WORK TO CONFORM WITH COLUMBIA COUNTY AND STATE OF FLORIDA STANDARDS AND REGULATIONS.

7. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THAT IT IS PROPERLY LOCATED AT THE BACK OF CURBLINE FOR THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.

8. COORDINATE LOCATION OF MANHOLE COVER AND CASTING SO

9. ALL PIPE LENGTHS INCLUDE FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.

10. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER COLUMBIA COUNTY AND MUTCD REQUIREMENTS. AS REQUIRED; TRAFFIC CONTROL DESIGN, RELATED PERMITTING, AND DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

11. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE

12. CONTRACTOR'S SURVEYOR SHALL RESET PERMANENT MONUMENTS AT LOCATIONS OF ALL FOUND MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION AT NO COST TO OWNER. CONTRACTOR'S SURVEYOR SHALL PREPARE A MONUMENT PRESERVATION CERTIFICATE IN ACCORDANCE WITH STATE LAW.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL REQUIREMENTS OF THE ADJACENT RAILROAD PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO PERMITS, INSURANCE REQUIREMENTS, FLAGGERS, AND NOTIFICATIONS.

14. CONTRACTOR SHALL SCHEDULE AND PAY FOR RAILROAD FLAGMEN FOR ALL WORK, IN THIS CONTRACT, WITHIN 25' OF THE MAINLINE.

15. TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.

#### **UTILITY NOTES**

SEE SHEET C201 FOR GENERAL NOTES.

2. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STATE OF FLORIDA REGULATIONS AND STANDARDS.

3. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF AL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM CERTIFICATION: SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE EXCAVATING.

4. 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

SEE SHEET C252 FOR WATERMAIN PLAN AND PROFILE



2300 Berkshire Lane N, Suite 200

Plymouth, MN 55441

763.559.9100 www.vaaeng.com Project # 230384



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

A 09/11/2024 OWNER CHECK SET RCQ	ı	NO	DATE	ISSUE/REVISION	BY
		Α	09/11/2024	OWNER CHECK SET	RCQ
	Į				

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITEI IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY

DATE: 10/19/2023		DRAWN: RCQ		
DESIGNED: AJR	CHECKE ARL	D:	APPROVED: MDM	

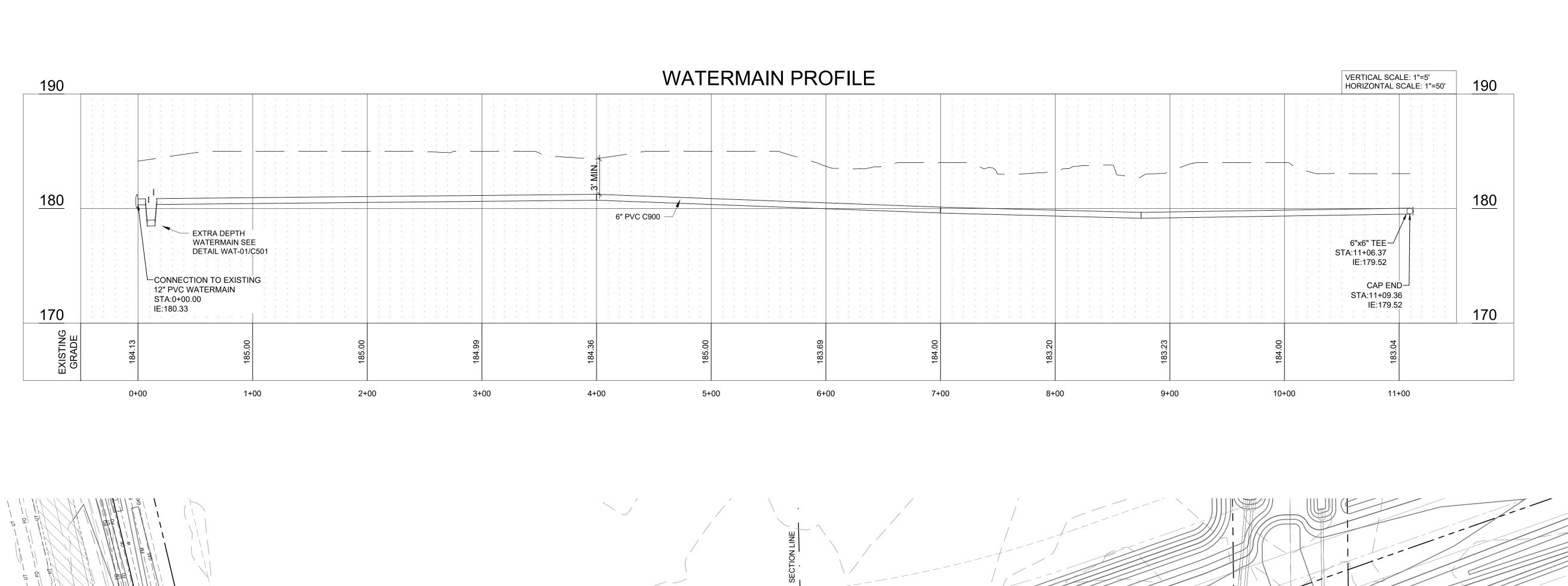
DRAWING TITLE:

AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

COUNTY UTILITY PLAN

ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 

PROJECT NO:	DRAWING NO:
230384	A (C251)
SCALE:	
AS NOTED	





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
Α	09/11/2024	OWNER CHECK SET	RCQ

CERTIFICATION:

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED:	CHECKE	D:	APPROVED:
AJR	ARL		MDM

DRAWING TITLE:

SPECIFICATION SECTIONS 331000,

ISSUED FOR REVIEW

**NOT FOR CONSTRUCTION** 

333000, AND 333400.

SHALL BE FIELD VERIFIED PRIOR

TO CONSTRUCTION

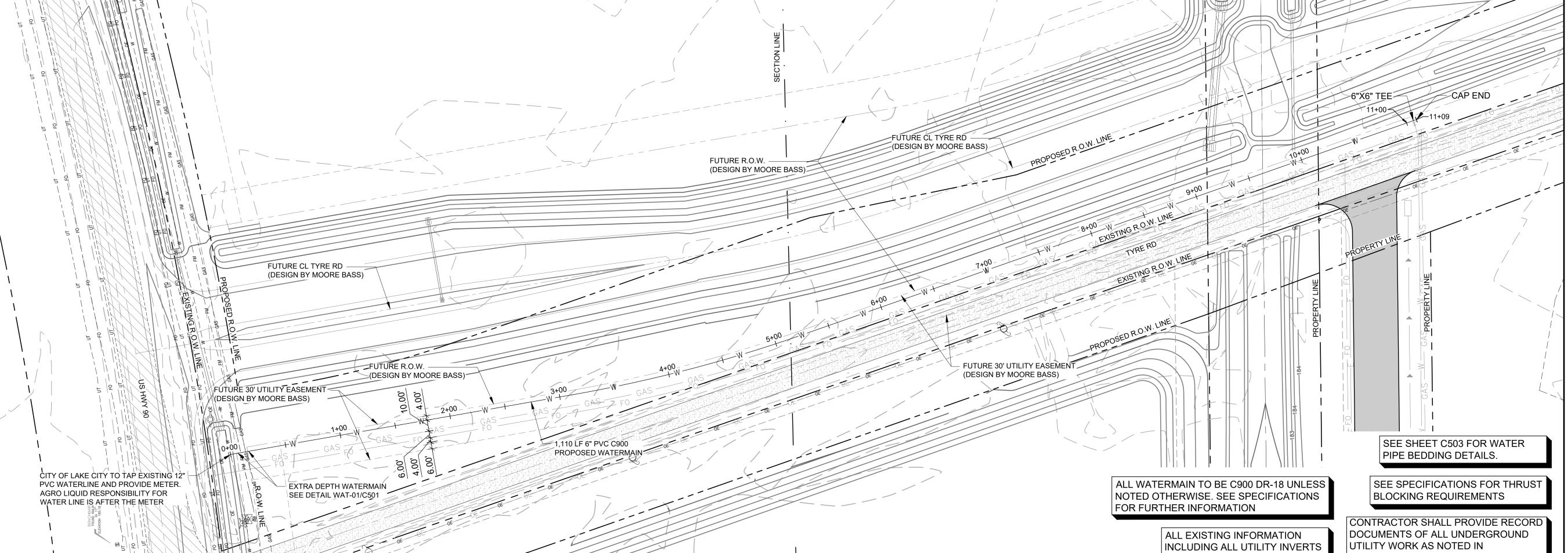
1"=50'

WATERMAIN PLAN AND PROFILE

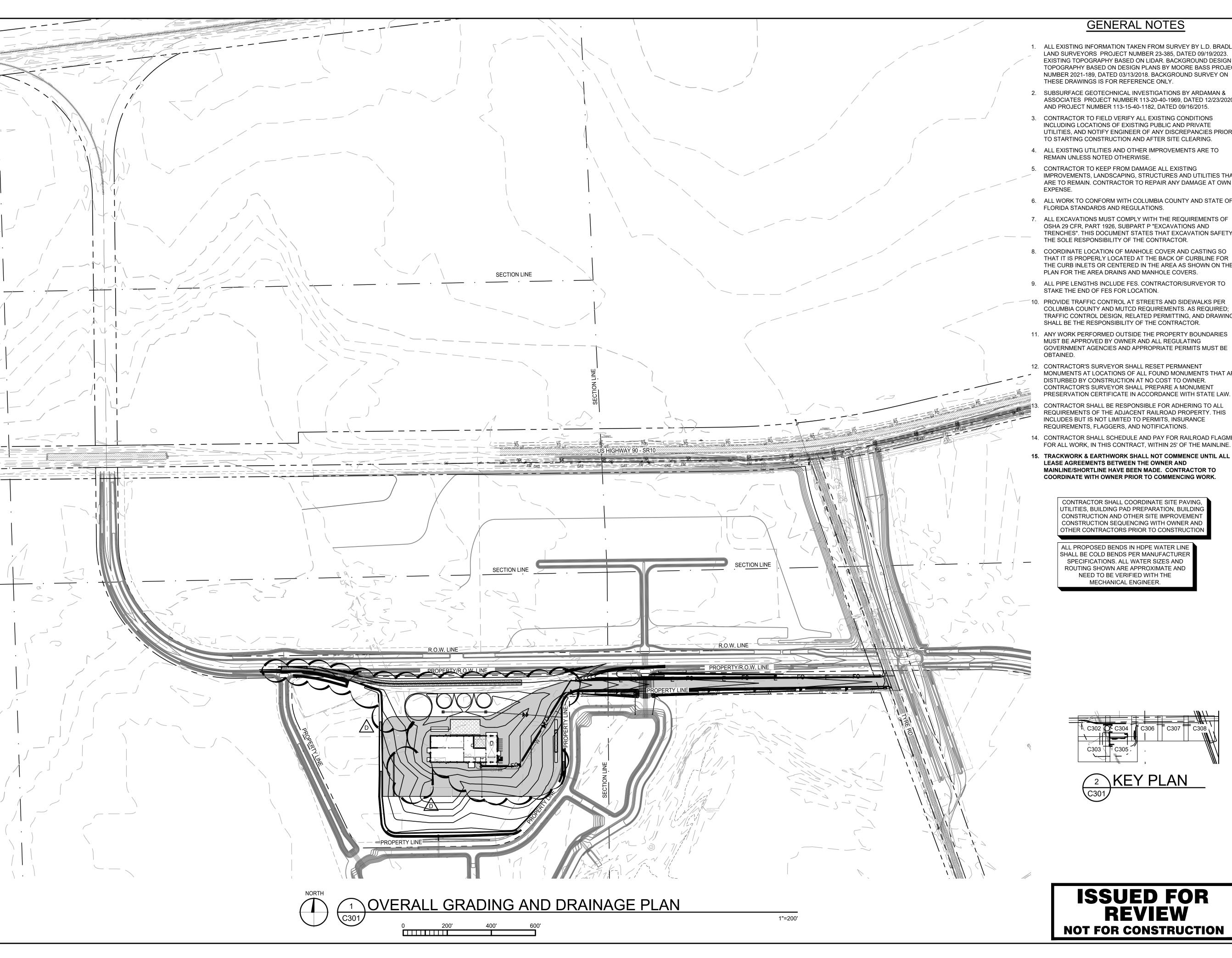
PROJECT NO:
230384

SCALE:
AS NOTED

DRAWING NO:
C252



WATERMAIN PLAN AND PROFILE

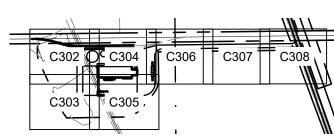




- 1. ALL EXISTING INFORMATION TAKEN FROM SURVEY BY L.D. BRADLEY LAND SURVEYORS PROJECT NUMBER 23-385, DATED 09/19/2023. EXISTING TOPOGRAPHY BASED ON LIDAR. BACKGROUND DESIGN TOPOGRAPHY BASED ON DESIGN PLANS BY MOORE BASS PROJECT NUMBER 2021-189, DATED 03/13/2018. BACKGROUND SURVEY ON THESE DRAWINGS IS FOR REFERENCE ONLY.
- 2. SUBSURFACE GEOTECHNICAL INVESTIGATIONS BY ARDAMAN & ASSOCIATES PROJECT NUMBER 113-20-40-1969, DATED 12/23/2020 AND PROJECT NUMBER 113-15-40-1182, DATED 09/16/2015.
- 3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION AND AFTER SITE CLEARING.
- 4. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR TO KEEP FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN
- 6. ALL WORK TO CONFORM WITH COLUMBIA COUNTY AND STATE OF FLORIDA STANDARDS AND REGULATIONS.
- 7. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.
- 9. ALL PIPE LENGTHS INCLUDE FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.
- 10. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER COLUMBIA COUNTY AND MUTCD REQUIREMENTS. AS REQUIRED; TRAFFIC CONTROL DESIGN, RELATED PERMITTING, AND DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE
- 12. CONTRACTOR'S SURVEYOR SHALL RESET PERMANENT MONUMENTS AT LOCATIONS OF ALL FOUND MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION AT NO COST TO OWNER. CONTRACTOR'S SURVEYOR SHALL PREPARE A MONUMENT PRESERVATION CERTIFICATE IN ACCORDANCE WITH STATE LAW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL REQUIREMENTS OF THE ADJACENT RAILROAD PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO PERMITS, INSURANCE REQUIREMENTS, FLAGGERS, AND NOTIFICATIONS.
- 14. CONTRACTOR SHALL SCHEDULE AND PAY FOR RAILROAD FLAGMEN FOR ALL WORK, IN THIS CONTRACT, WITHIN 25' OF THE MAINLINE.
- 15. TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.

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

ALL PROPOSED BENDS IN HDPE WATER LIN SHALL BE COLD BENDS PER MANUFACTUREI SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.





ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 



www.vaaeng.com

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441



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
		Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
		В	12/11/2023	ISSUED FOR PERMIT	RCQ
		O	01/04/2024	ADDENDUM 1	RCQ
N		D	09/11/2024	OWNER CHECK SET	RCQ
	l				
		CER	ΓΙΓΙCATION:		
			10/111014.		

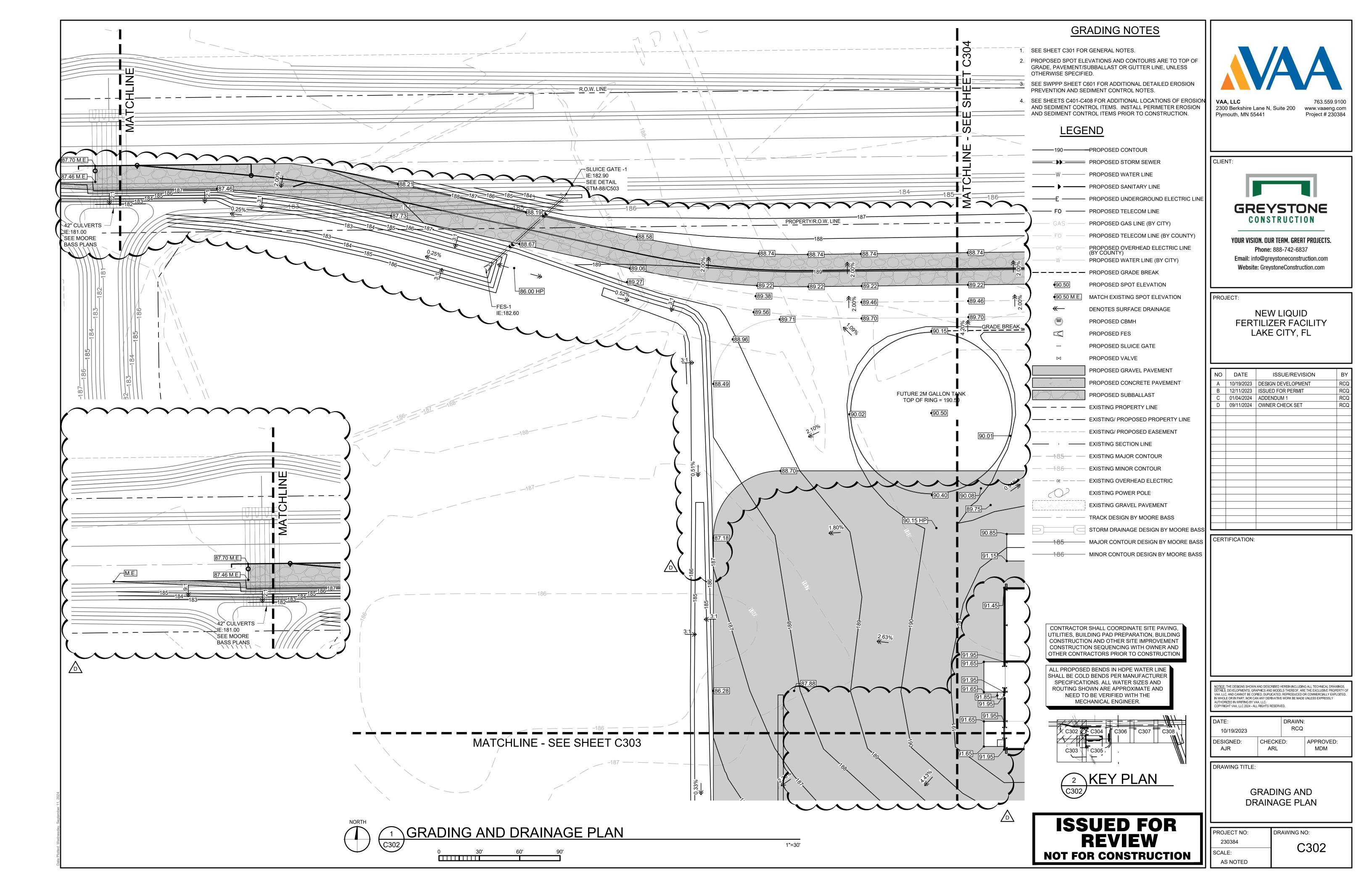
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

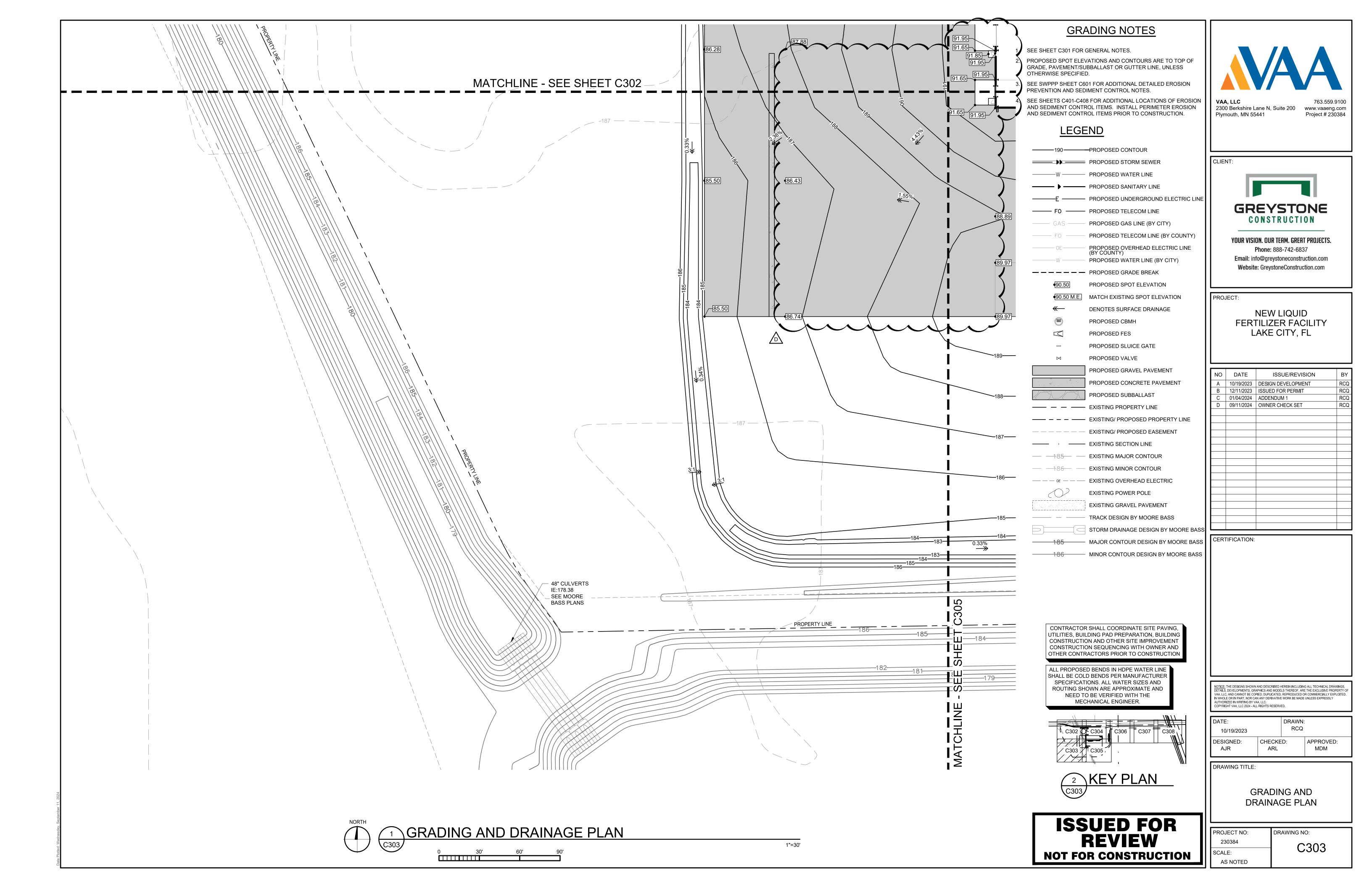
ı				
ı	DATE:		DRAWN:	
ı	10/19/2023		RCQ	
l	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

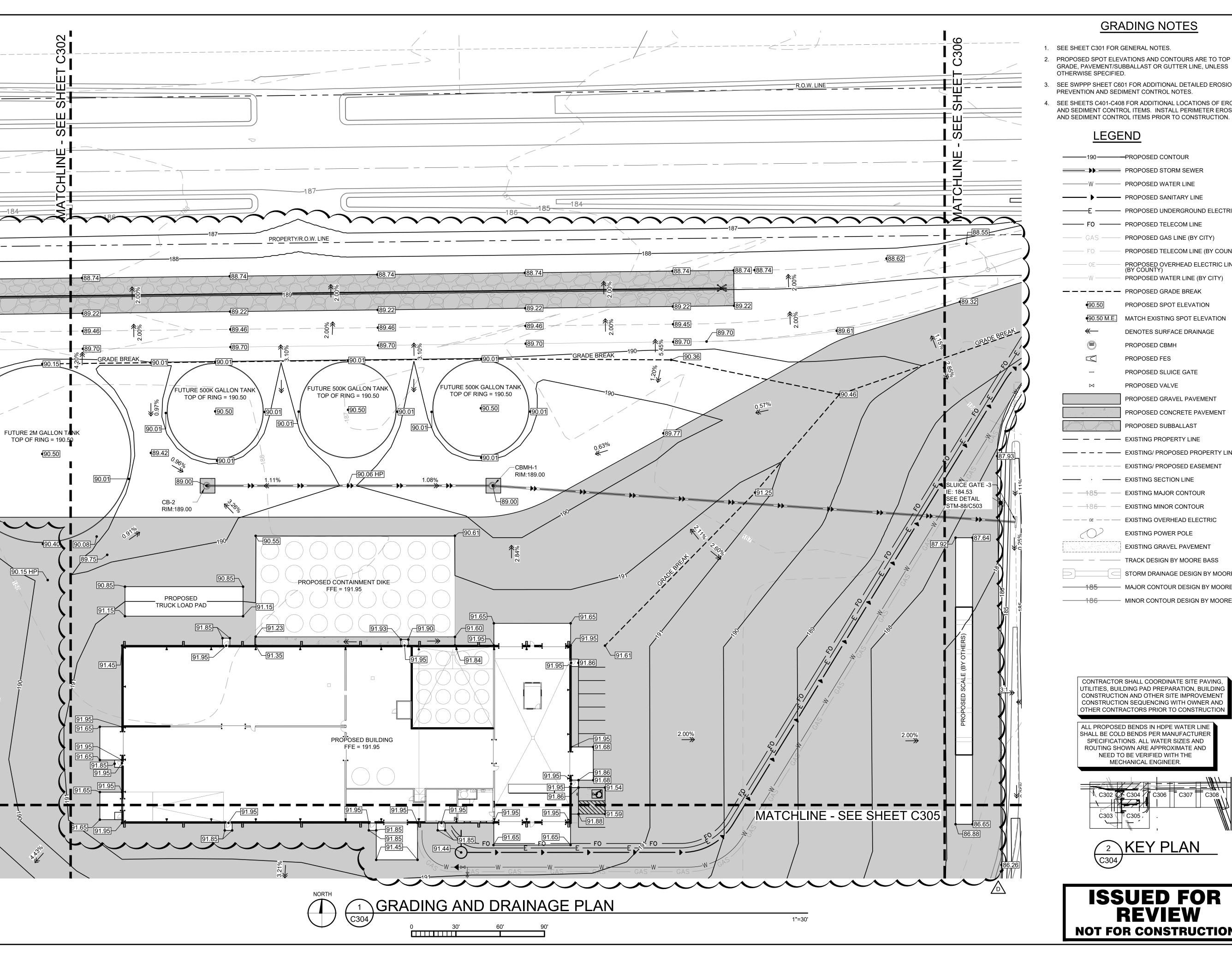
DRAWING TITLE:

OVERALL GRADING AND DRAINAGE PLAN

PROJECT NO:	DRAWING NO:
230384	C301
SCALE:	
AS NOTED	







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

PROPOSED GAS LINE (BY CITY)

PROPOSED WATER LINE (BY CITY)

PROPOSED SPOT ELEVATION

DENOTES SURFACE DRAINAGE

PROPOSED CBMH

PROPOSED FES

PROPOSED VALVE

PROPOSED SLUICE GATE

MAJOR CONTOUR DESIGN BY MOORE BASS

MINOR CONTOUR DESIGN BY MOORE BASS

#### **LEGEND**

PROPOSED STORM SEWER PROPOSED WATER LINE PROPOSED SANITARY LINE — PROPOSED UNDERGROUND ELECTRIC LINE **GREYSTONE** 

> PROPOSED TELECOM LINE (BY COUNTY) YOUR VISION. OUR TEAM. GREAT PROJECTS. PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)

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

CONSTRUCTION

2300 Berkshire Lane N, Suite 200

Plymouth, MN 55441

www.vaaeng.com

Project # 230384

PROJECT:

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

¬				
PROPOSED GRAVEL PAVEMENT	NO	DATE	ISSUE/REVISION	BY
PROPOSED CONCRETE PAVEMENT	Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
PROPOSED SUBBALLAST	В	12/11/2023	ISSUED FOR PERMIT	RCQ
EXISTING PROPERTY LINE	C D	01/04/2024 09/11/2024	ADDENDUM 1 OWNER CHECK SET	RCQ RCQ
- 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				
	OFF	TIFICATION		

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

ALL PROPOSED BENDS IN HDPE WATER LINE SHALL BE COLD BENDS PER MANUFACTURE SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.

				_		11/11/
						_111/-
√ C302 €	C304	₹ c	306	C307	Ħ	C308 \
						\ <b>\\\</b>
					_	
C303 \	™ C305 ,					<b>\</b> \\
	H #					W
			ı			'



ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 

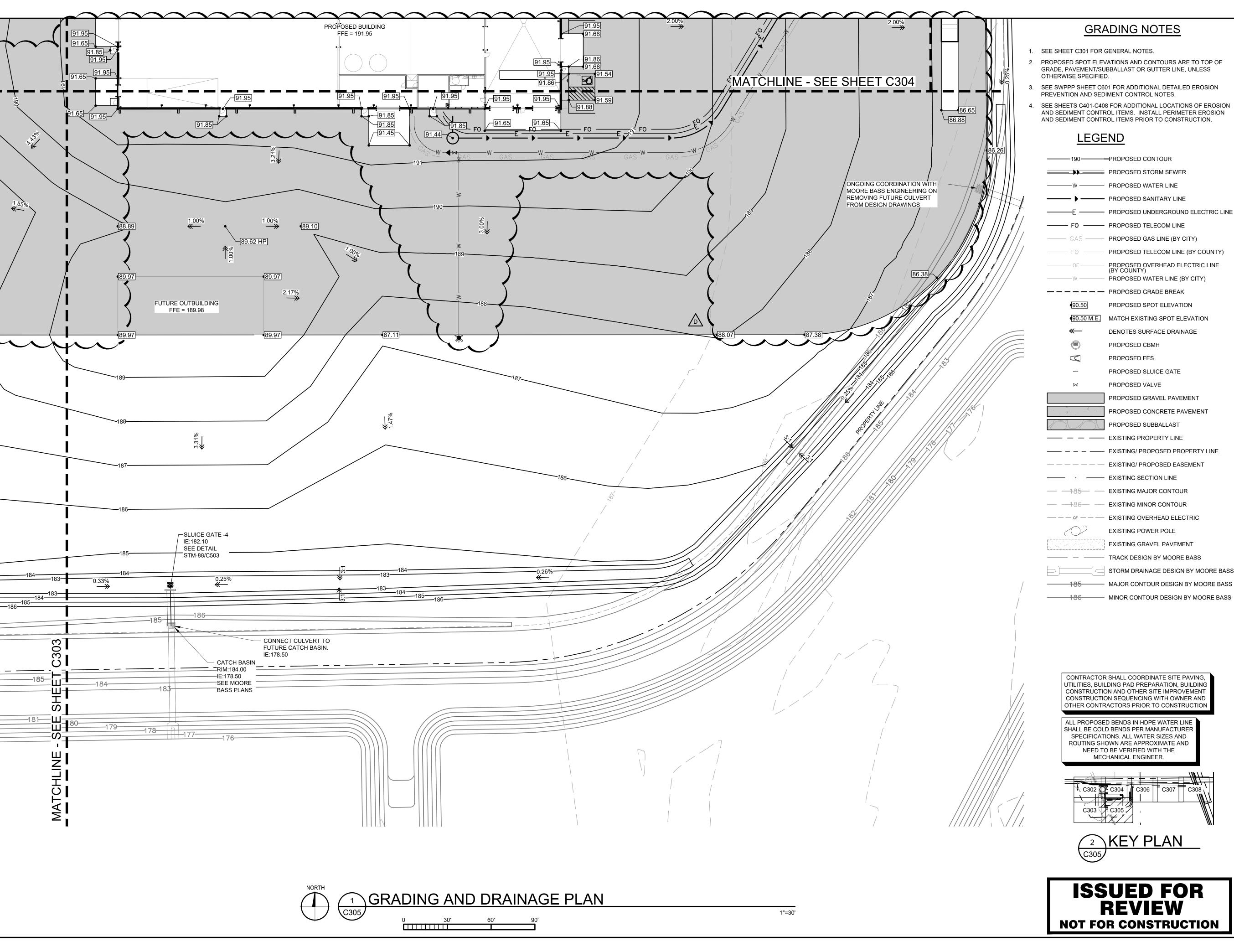
ı	NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWING
ı	DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERT
ı	VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITE
ı	IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY
ı	AUTHORIZED IN WRITING BY VAA, LLC.
	CODYDICUTATION OF ALL DIGUES DECEDIED

DATE: 10/19/2023	DRAWN: RCQ		
DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

**GRADING AND** DRAINAGE PLAN

Ι.		
	PROJECT NO:	DRAWING NO:
	230384	C304
	SCALE:	C304
	AS NOTED	





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

PROPOSED SANITARY LINE

— FO — PROPOSED TELECOM LINE

PROPOSED TELECOM LINE (BY COUNTY) PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY) PROPOSED WATER LINE (BY CITY)

PROPOSED SPOT ELEVATION

●90.50 M.E. MATCH EXISTING SPOT ELEVATION DENOTES SURFACE DRAINAGE

PROPOSED CBMH PROPOSED FES

PROPOSED VALVE PROPOSED GRAVEL PAVEMENT

PROPOSED CONCRETE PAVEMENT PROPOSED SUBBALLAST

— — — — EXISTING/ PROPOSED PROPERTY LINE

EXISTING/ PROPOSED EASEMENT —— EXISTING SECTION LINE

— <del>185</del> — EXISTING MAJOR CONTOUR — — 186— — EXISTING MINOR CONTOUR

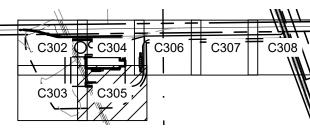
EXISTING POWER POLE

TRACK DESIGN BY MOORE BASS

— MAJOR CONTOUR 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

SHALL BE COLD BENDS PER MANUFACTURER SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.





ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 



www.vaaeng.com

Project # 230384

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441



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

		I	
NO	DATE	ISSUE/REVISION	BY
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ
	TIFICATION:		

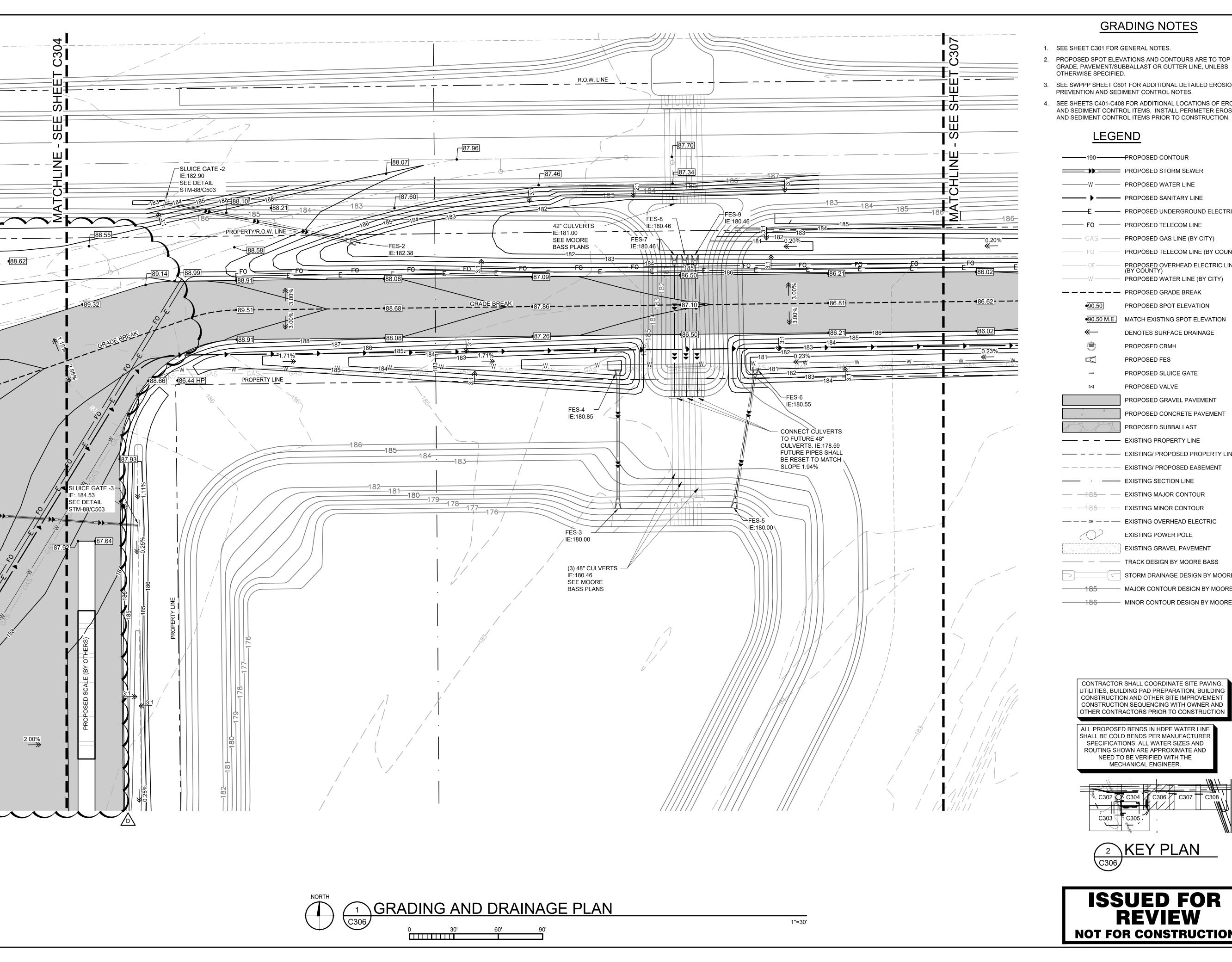
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

	DATE: 10/19/2023		DRAWN: RCQ	
	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

**GRADING AND** DRAINAGE PLAN

PROJECT NO: DRAWING NO: 230384 C305 SCALE: AS NOTED



- 1. SEE SHEET C301 FOR GENERAL NOTES.
- 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
- SEE SHEETS C401-C408 FOR ADDITIONAL LOCATIONS OF EROSION AND SEDIMENT CONTROL ITEMS. INSTALL PERIMETER EROSION

#### LEGEND

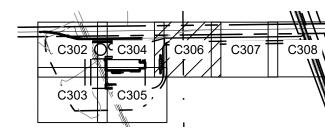
PROPOSED STORM SEWER — PROPOSED WATER LINE PROPOSED SANITARY LINE PROPOSED UNDERGROUND ELECTRIC LINE PROPOSED TELECOM LINE PROPOSED GAS LINE (BY CITY) PROPOSED TELECOM LINE (BY COUNTY) PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY) PROPOSED WATER LINE (BY CITY) — — — — PROPOSED GRADE BREAK PROPOSED SPOT ELEVATION ●90.50 M.E. MATCH EXISTING SPOT ELEVATION DENOTES SURFACE DRAINAGE PROPOSED CBMH PROPOSED FES PROPOSED SLUICE GATE PROPOSED VALVE PROPOSED GRAVEL PAVEMENT PROPOSED CONCRETE PAVEMENT PROPOSED SUBBALLAST —— — — EXISTING PROPERTY LINE —— EXISTING/ PROPOSED PROPERTY LINE EXISTING/ PROPOSED EASEMENT —— EXISTING SECTION LINE — — 185— — EXISTING MAJOR CONTOUR — — 186— — EXISTING MINOR CONTOUR — — — OE — — EXISTING OVERHEAD ELECTRIC EXISTING POWER POLE 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

— MAJOR CONTOUR DESIGN BY MOORE BASS

MINOR CONTOUR DESIGN BY MOORE BASS

ALL PROPOSED BENDS IN HDPE WATER LINE SHALL BE COLD BENDS PER MANUFACTURER SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.





ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 



www.vaaeng.com

Project # 230384

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441

**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	
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ	
В	12/11/2023	ISSUED FOR PERMIT	RCQ	
С	01/04/2024	ADDENDUM 1	RCQ	
D	09/11/2024	OWNER CHECK SET	RCQ	
		l .		
CERTIFICATION:				

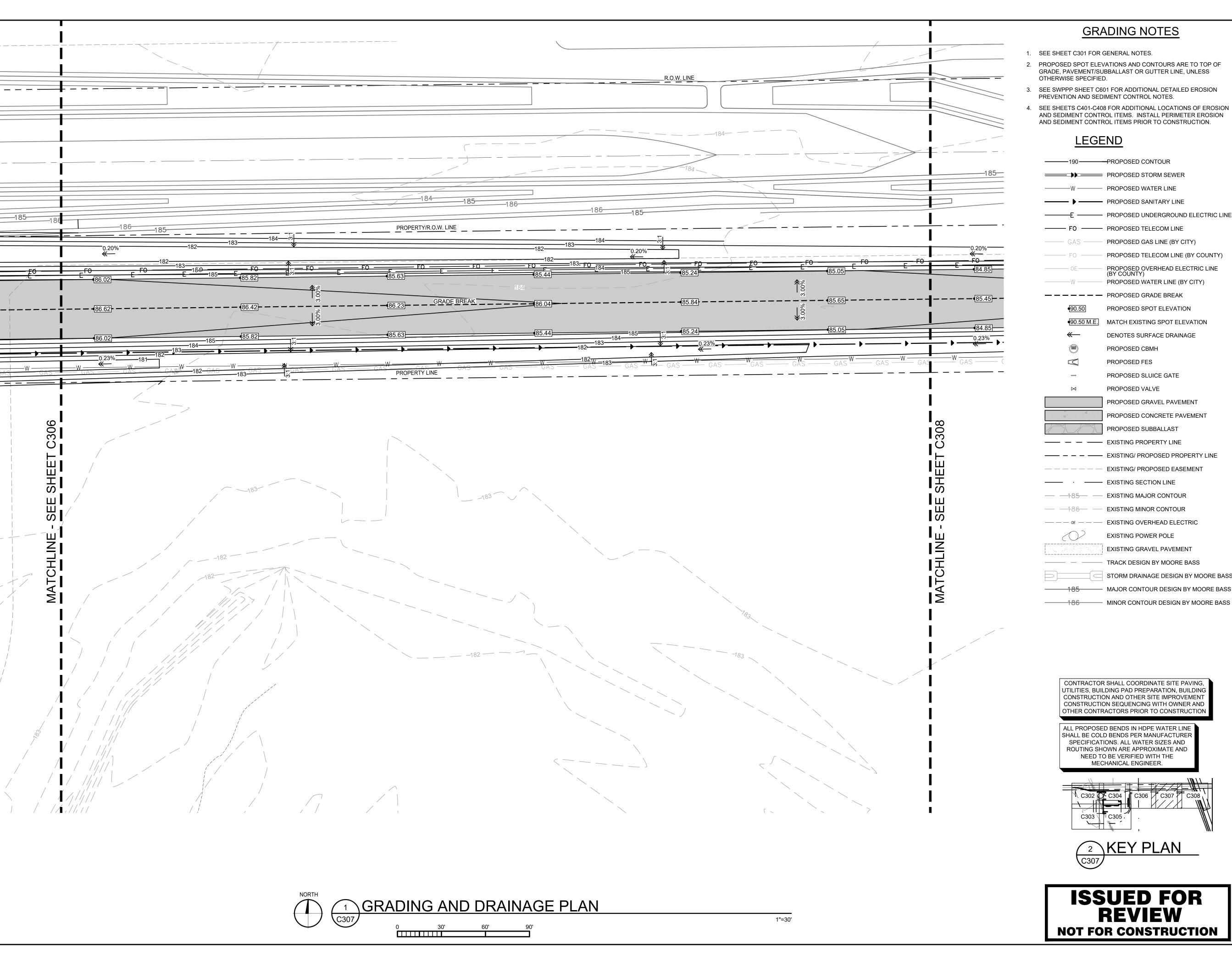
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

	DATE: 10/19/2023		DRAWN: RCQ	
	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

**GRADING AND** DRAINAGE PLAN

PROJECT NO: DRAWING NO: 230384 C306 SCALE: AS NOTED



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

#### LEGEND

PROPOSED STORM SEWER

—W — PROPOSED WATER LINE

PROPOSED SANITARY LINE

—E ——— PROPOSED UNDERGROUND ELECTRIC LINE

— FO — 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 GRADE BREAK

PROPOSED SPOT ELEVATION ●90.50 M.E. MATCH EXISTING SPOT ELEVATION

DENOTES SURFACE DRAINAGE

PROPOSED CBMH

PROPOSED FES

PROPOSED SLUICE GATE

PROPOSED VALVE

PROPOSED GRAVEL PAVEMENT

PROPOSED CONCRETE PAVEMENT

PROPOSED SUBBALLAST

— — — — EXISTING/ PROPOSED PROPERTY LINE

— EXISTING/ PROPOSED EASEMENT

— — 185— — EXISTING MAJOR CONTOUR

— — 186— — EXISTING MINOR CONTOUR

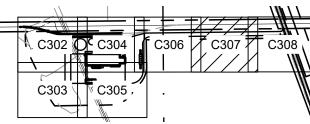
EXISTING POWER POLE

TRACK DESIGN BY MOORE BASS STORM DRAINAGE DESIGN BY MOORE BASS

— MAJOR CONTOUR 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

SHALL BE COLD BENDS PER MANUFACTURER SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.





ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 



www.vaaeng.com

Project # 230384

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441



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				
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ				
В	12/11/2023	ISSUED FOR PERMIT	RCQ				
С	09/11/2024	OWNER CHECK SET	RCQ				
CERTIFICATION:							

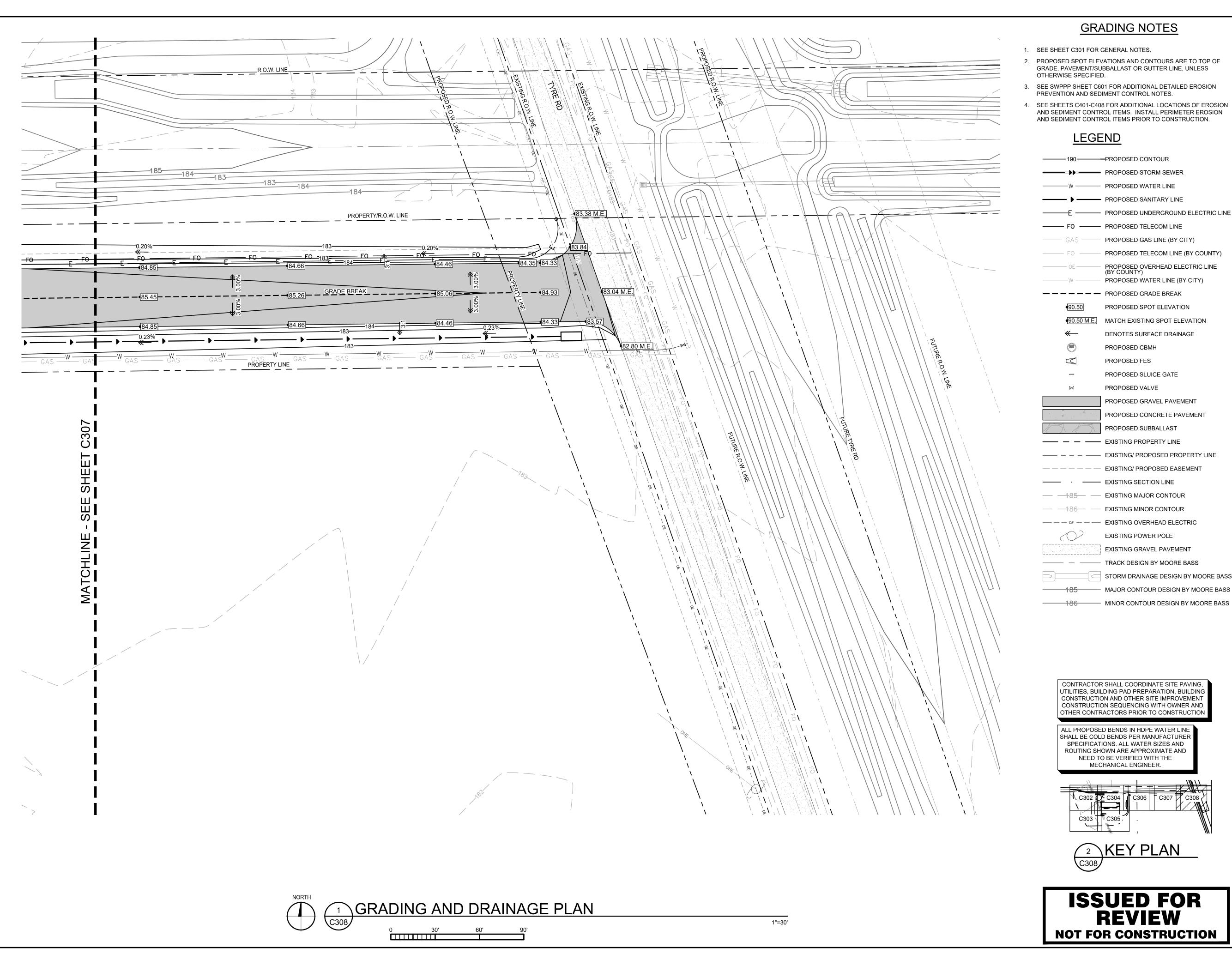
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE:		DRAWN:	
10/19/2023			
DESIGNED:	CHECKE	D:	APPROVED:
AJR	ARL		MDM

DRAWING TITLE:

**GRADING AND** DRAINAGE PLAN

DRAWING NO: PROJECT NO: 230384 C307 SCALE: AS NOTED



- 1. SEE SHEET C301 FOR GENERAL NOTES.
- PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE, PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS
- 3. SEE SWPPP SHEET C601 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

#### LEGEND

PROPOSED STORM SEWER PROPOSED WATER LINE PROPOSED SANITARY 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 GRADE BREAK

PROPOSED SPOT ELEVATION •90.50 M.E. MATCH EXISTING SPOT ELEVATION

DENOTES SURFACE DRAINAGE PROPOSED CBMH PROPOSED FES PROPOSED SLUICE GATE

PROPOSED GRAVEL PAVEMENT PROPOSED CONCRETE PAVEMENT PROPOSED SUBBALLAST

PROPOSED VALVE

—— — — EXISTING PROPERTY LINE — — — — EXISTING/ PROPOSED PROPERTY LINE

—— EXISTING SECTION LINE — <del>185</del> — EXISTING MAJOR CONTOUR

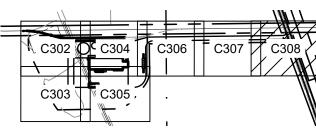
— — 186— — EXISTING MINOR CONTOUR 

EXISTING POWER POLE TRACK DESIGN BY MOORE BASS

STORM DRAINAGE DESIGN BY MOORE BASS —— MAJOR CONTOUR 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

ALL PROPOSED BENDS IN HDPE WATER LINE SHALL BE COLD BENDS PER MANUFACTURER SPECIFICATIONS. ALL WATER SIZES AND ROUTING SHOWN ARE APPROXIMATE AND NEED TO BE VERIFIED WITH THE MECHANICAL ENGINEER.





ISSUED FOR REVIEW **NOT FOR CONSTRUCTION** 



2300 Berkshire Lane N, Suite 200 www.vaaeng.com Plymouth, MN 55441



Project # 230384

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	E
Α	10/19/2023	DESIGN DEVELOPMENT	R
В	12/11/2023	ISSUED FOR PERMIT	R
С	09/11/2024	OWNER CHECK SET	R

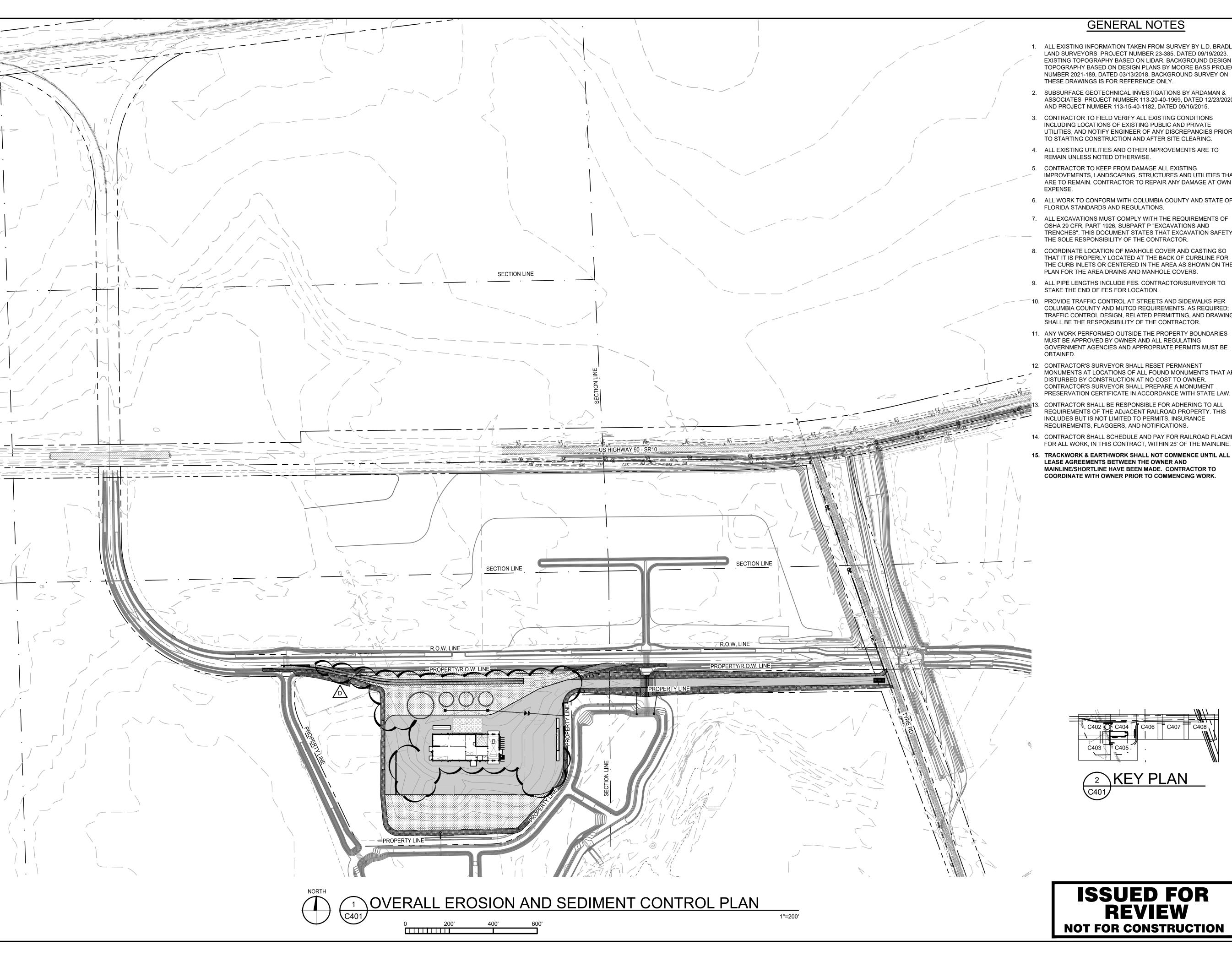
NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

ı				
ı	DATE:		DRAWN:	
ı	10/19/2023		RCQ	
	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM
ı	AJIX	AIL		IVIDIVI

DRAWING TITLE:

**GRADING AND** DRAINAGE PLAN

PROJECT NO: DRAWING NO: 230384 C308 SCALE: AS NOTED





- 1. ALL EXISTING INFORMATION TAKEN FROM SURVEY BY L.D. BRADLEY LAND SURVEYORS PROJECT NUMBER 23-385, DATED 09/19/2023. EXISTING TOPOGRAPHY BASED ON LIDAR. BACKGROUND DESIGN TOPOGRAPHY BASED ON DESIGN PLANS BY MOORE BASS PROJECT NUMBER 2021-189, DATED 03/13/2018. BACKGROUND SURVEY ON THESE DRAWINGS IS FOR REFERENCE ONLY.
- 2. SUBSURFACE GEOTECHNICAL INVESTIGATIONS BY ARDAMAN & ASSOCIATES PROJECT NUMBER 113-20-40-1969, DATED 12/23/2020 AND PROJECT NUMBER 113-15-40-1182, DATED 09/16/2015.
- 3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION AND AFTER SITE CLEARING.
- 4. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR TO KEEP FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN
- 6. ALL WORK TO CONFORM WITH COLUMBIA COUNTY AND STATE OF FLORIDA STANDARDS AND REGULATIONS.
- 7. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.
- 9. ALL PIPE LENGTHS INCLUDE FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.
- 10. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER COLUMBIA COUNTY AND MUTCD REQUIREMENTS. AS REQUIRED; TRAFFIC CONTROL DESIGN, RELATED PERMITTING, AND DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE
- 12. CONTRACTOR'S SURVEYOR SHALL RESET PERMANENT MONUMENTS AT LOCATIONS OF ALL FOUND MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION AT NO COST TO OWNER. CONTRACTOR'S SURVEYOR SHALL PREPARE A MONUMENT PRESERVATION CERTIFICATE IN ACCORDANCE WITH STATE LAW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL REQUIREMENTS OF THE ADJACENT RAILROAD PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO PERMITS, INSURANCE REQUIREMENTS, FLAGGERS, AND NOTIFICATIONS.
- 14. CONTRACTOR SHALL SCHEDULE AND PAY FOR RAILROAD FLAGMEN FOR ALL WORK, IN THIS CONTRACT, WITHIN 25' OF THE MAINLINE.
- 15. TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.



www.vaaeng.com

Project # 230384

2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441



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
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ
CERT	ΓIFICATION:		

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC.

COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

	DATE: 10/19/2023		DRAWN: RCQ	
	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

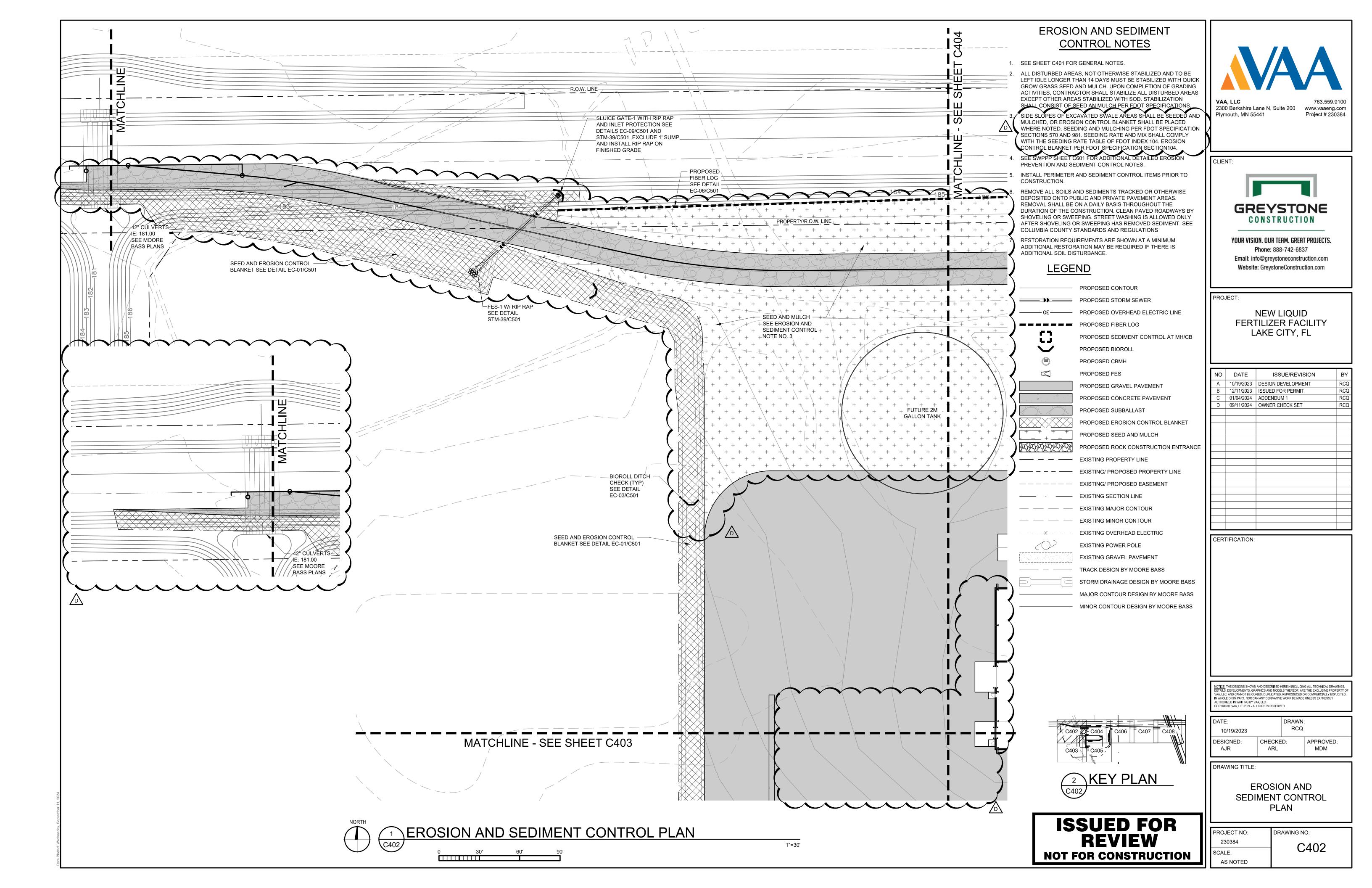
DRAWING TITLE:

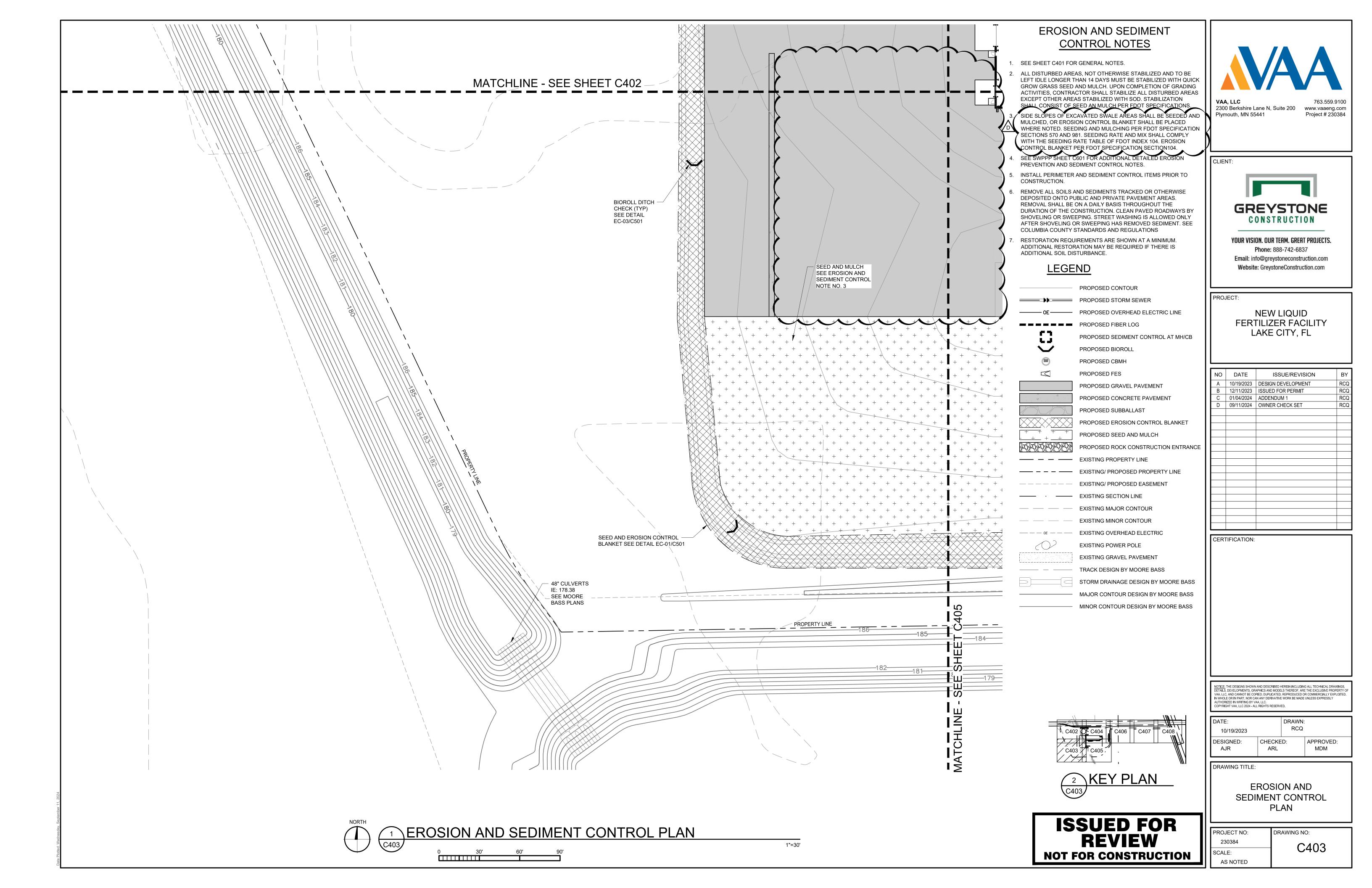
**OVERALL EROSION** AND SEDIMENT **CONTROL PLAN** 

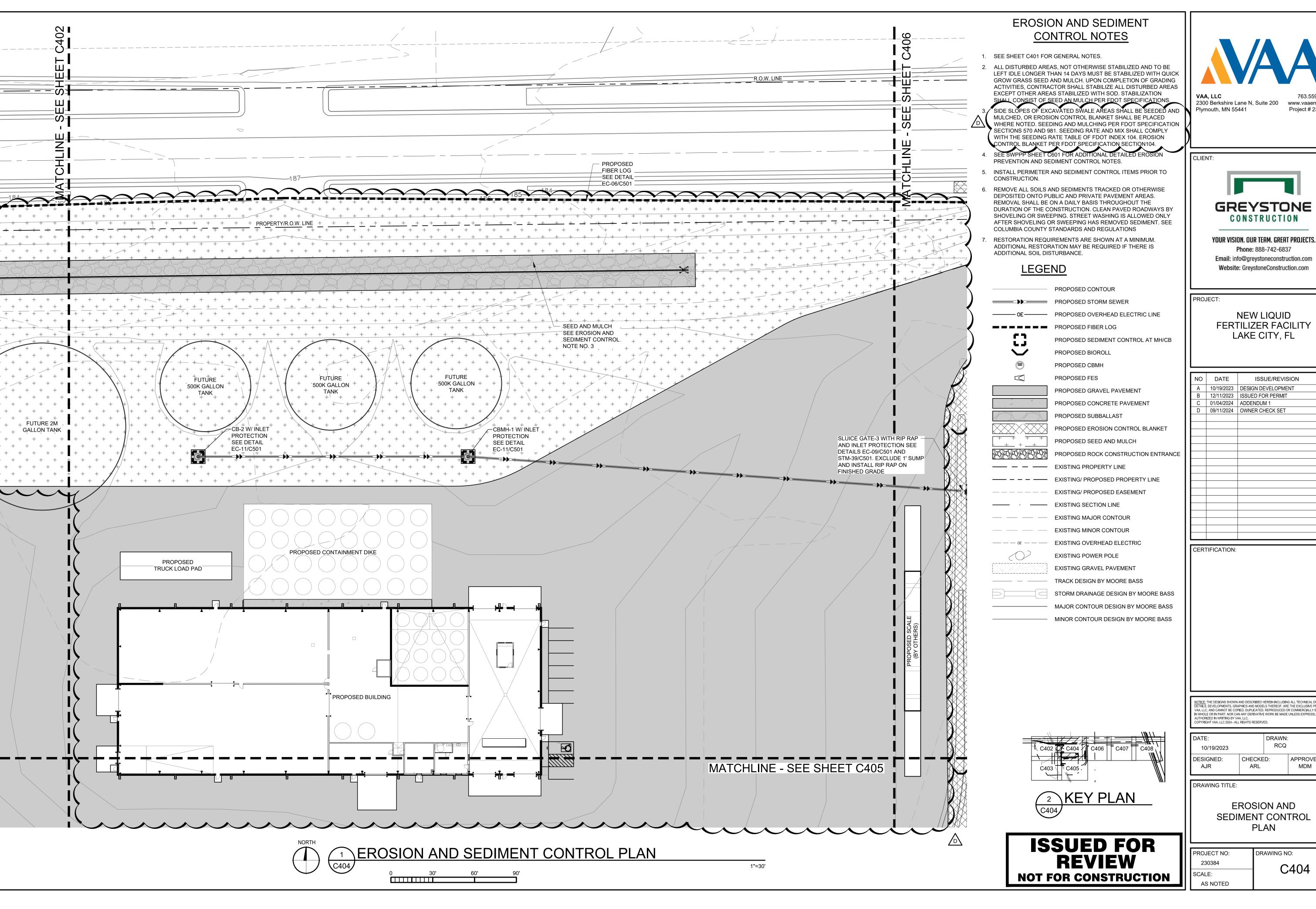
C401

PROJECT NO: DRAWING NO: 230384 SCALE:

**ISSUED FOR REVIEW NOT FOR CONSTRUCTION** 







NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

www.vaaeng.com

Project # 230384

CONSTRUCTION

Phone: 888-742-6837

**NEW LIQUID** 

LAKE CITY, FL

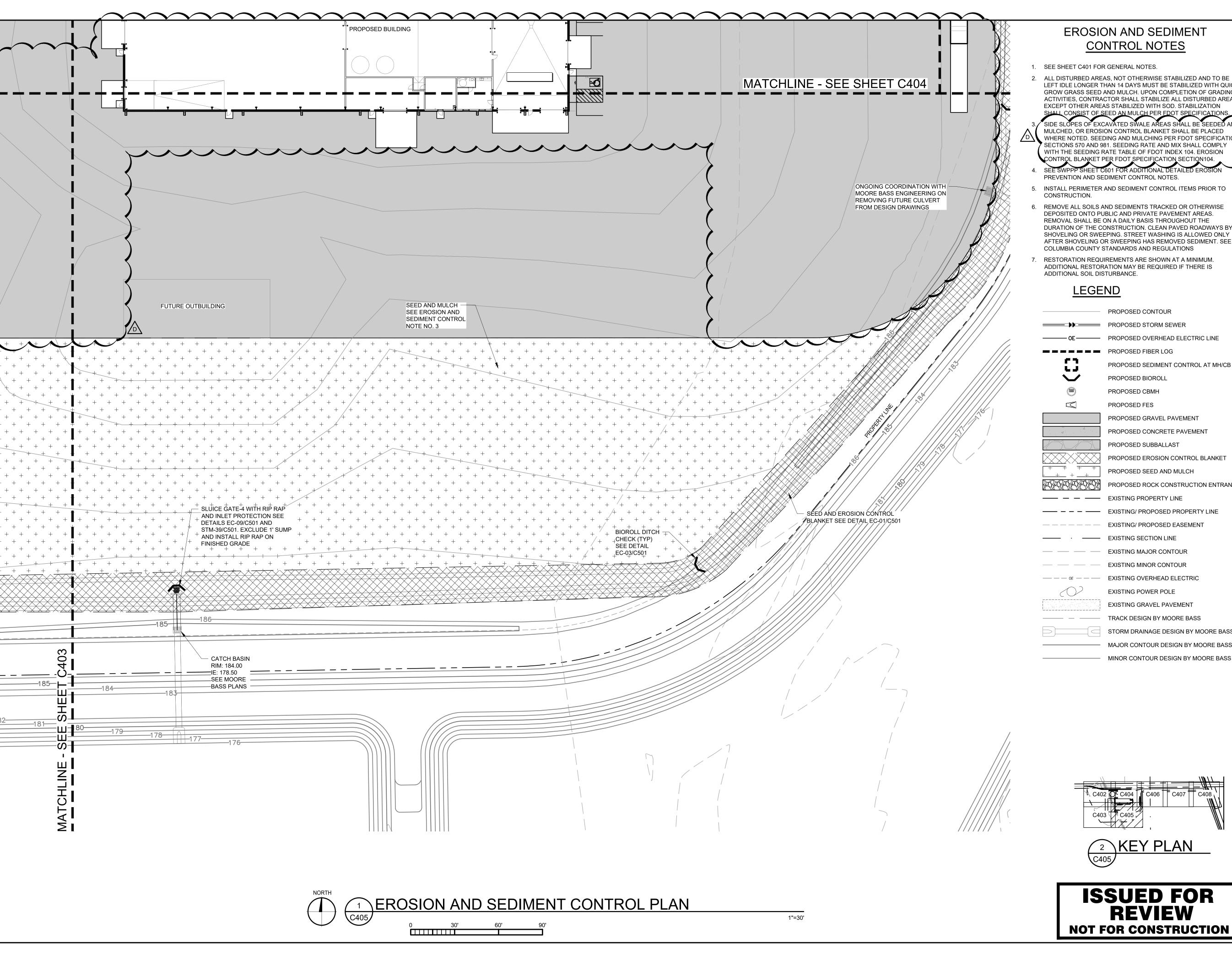
ISSUE/REVISION

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

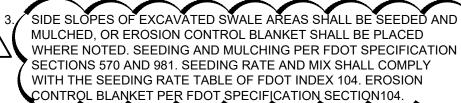
**EROSION AND** SEDIMENT CONTROL PLAN

ı	PROJECT NO:	DRAWING NO:
ı	230384	C404
ı	SCALE:	<u> </u>
1	AS NOTED	



#### **EROSION AND SEDIMENT** CONTROL NOTES

- 1. SEE SHEET C401 FOR GENERAL NOTES.
- 2. 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 EXCEPT OTHER AREAS STABILIZED WITH SOD. STABILIZATION



- INSTALL PERIMETER AND SEDIMENT CONTROL ITEMS PRIOR TO
- 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 AFTER SHOVELING OR SWEEPING HAS REMOVED SEDIMENT. SEE
- RESTORATION REQUIREMENTS ARE SHOWN AT A MINIMUM.

#### LEGEND

PROPOSED STORM SEWER

PROPOSED FIBER LOG

PROPOSED BIOROLL

PROPOSED FES

PROPOSED CONCRETE PAVEMENT PROPOSED SUBBALLAST

PROPOSED SEED AND MULCH

---- - EXISTING/ PROPOSED PROPERTY LINE

· — EXISTING SECTION LINE EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

EXISTING OVERHEAD ELECTRIC **EXISTING POWER POLE EXISTING GRAVEL PAVEMENT** 

STORM DRAINAGE DESIGN BY MOORE BASS

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY ( VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC.

COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

ı				
ı	DATE:		DRAWN:	
	10/19/2023	0/19/2023		
	DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

**EROSION AND** SEDIMENT CONTROL PLAN

PROJECT NO: DRAWING NO: 230384 C405 SCALE: AS NOTED

2300 Berkshire Lane N, Suite 200

**GREYSTONE** 

CONSTRUCTION

YOUR VISION. OUR TEAM. GREAT PROJECTS.

Phone: 888-742-6837

Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

**NEW LIQUID** 

FERTILIZER FACILITY

LAKE CITY, FL

A 10/19/2023 DESIGN DEVELOPMENT

B 12/11/2023 ISSUED FOR PERMIT

C 01/04/2024 ADDENDUM 1 D 09/11/2024 OWNER CHECK SET

ISSUE/REVISION

Plymouth, MN 55441

PROJECT:

NO DATE

CERTIFICATION:

www.vaaeng.com

Project # 230384

COLUMBIA COUNTY STANDARDS AND REGULATIONS

ADDITIONAL RESTORATION MAY BE REQUIRED IF THERE IS ADDITIONAL SOIL DISTURBANCE.

PROPOSED CONTOUR

PROPOSED SEDIMENT CONTROL AT MH/CB

PROPOSED CBMH

PROPOSED GRAVEL PAVEMENT

PROPOSED EROSION CONTROL BLANKET

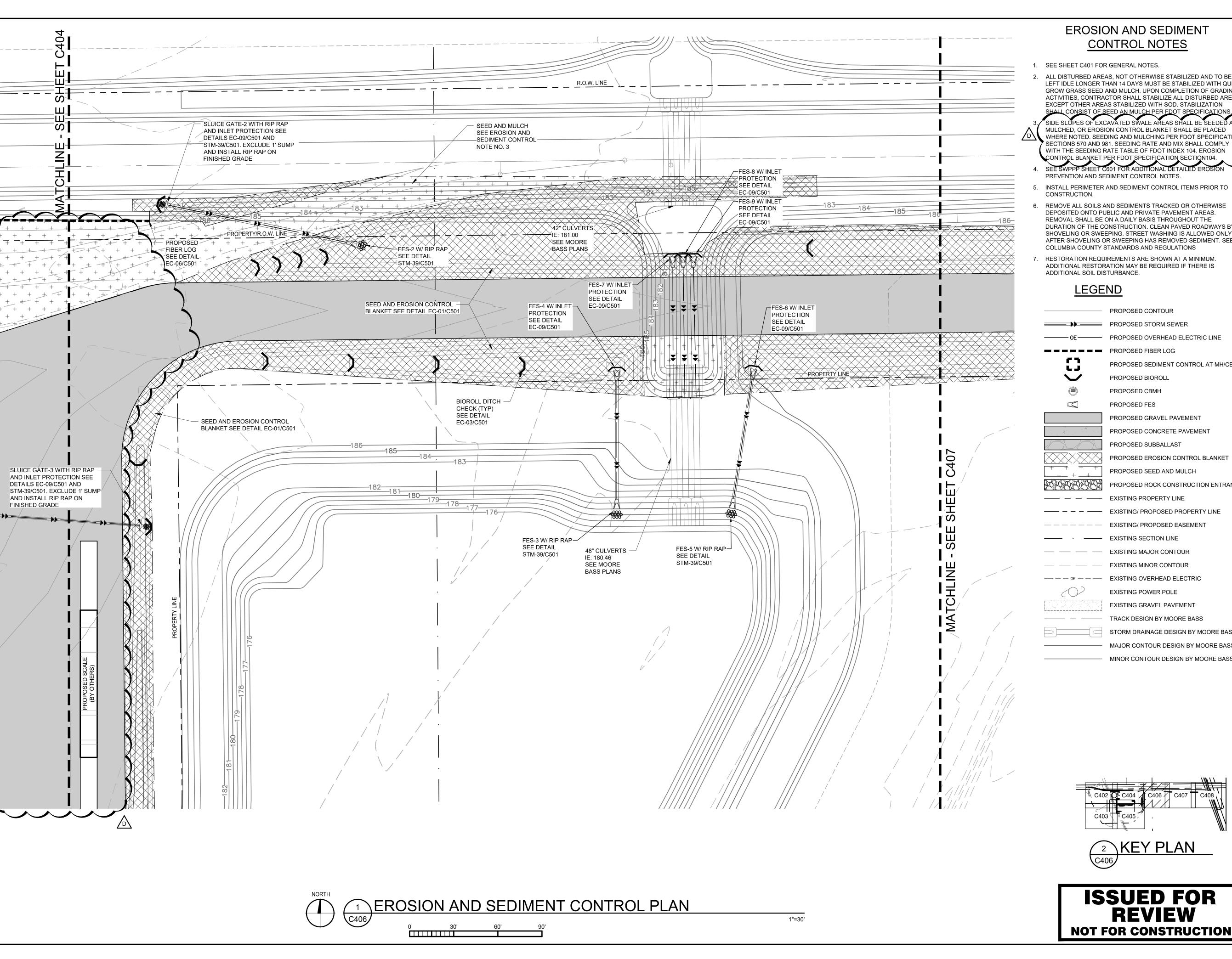
PROPOSED ROCK CONSTRUCTION ENTRANCE

----- EXISTING/ PROPOSED EASEMENT

TRACK DESIGN BY MOORE BASS

MAJOR CONTOUR DESIGN BY MOORE BASS





#### **EROSION AND SEDIMENT** CONTROL NOTES

- 1. 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

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

- PREVENTION AND SEDIMENT CONTROL NOTES.
- INSTALL PERIMETER AND SEDIMENT CONTROL ITEMS PRIOR TO
- 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 SEDIMENT CONTROL AT MH/CB PROPOSED BIOROLL

PROPOSED CBMH PROPOSED FES

PROPOSED GRAVEL PAVEMENT PROPOSED CONCRETE PAVEMENT PROPOSED SUBBALLAST

> PROPOSED EROSION CONTROL BLANKET PROPOSED SEED AND MULCH

PROPOSED ROCK CONSTRUCTION ENTRANCE

—— — — EXISTING/ PROPOSED PROPERTY LINE — — — — — EXISTING/ PROPOSED EASEMENT

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR EXISTING OVERHEAD ELECTRIC

EXISTING POWER POLE EXISTING GRAVEL PAVEMENT

TRACK DESIGN BY MOORE BASS

**REVIEW** 

STORM DRAINAGE DESIGN BY MOORE BASS MAJOR CONTOUR DESIGN BY MOORE BASS

MINOR CONTOUR DESIGN BY MOORE BASS

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

**EROSION AND** SEDIMENT CONTROL PLAN

PROJECT NO: DRAWING NO: 230384 C406 SCALE: AS NOTED

www.vaaeng.com

Project # 230384

2300 Berkshire Lane N, Suite 200

Plymouth, MN 55441



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

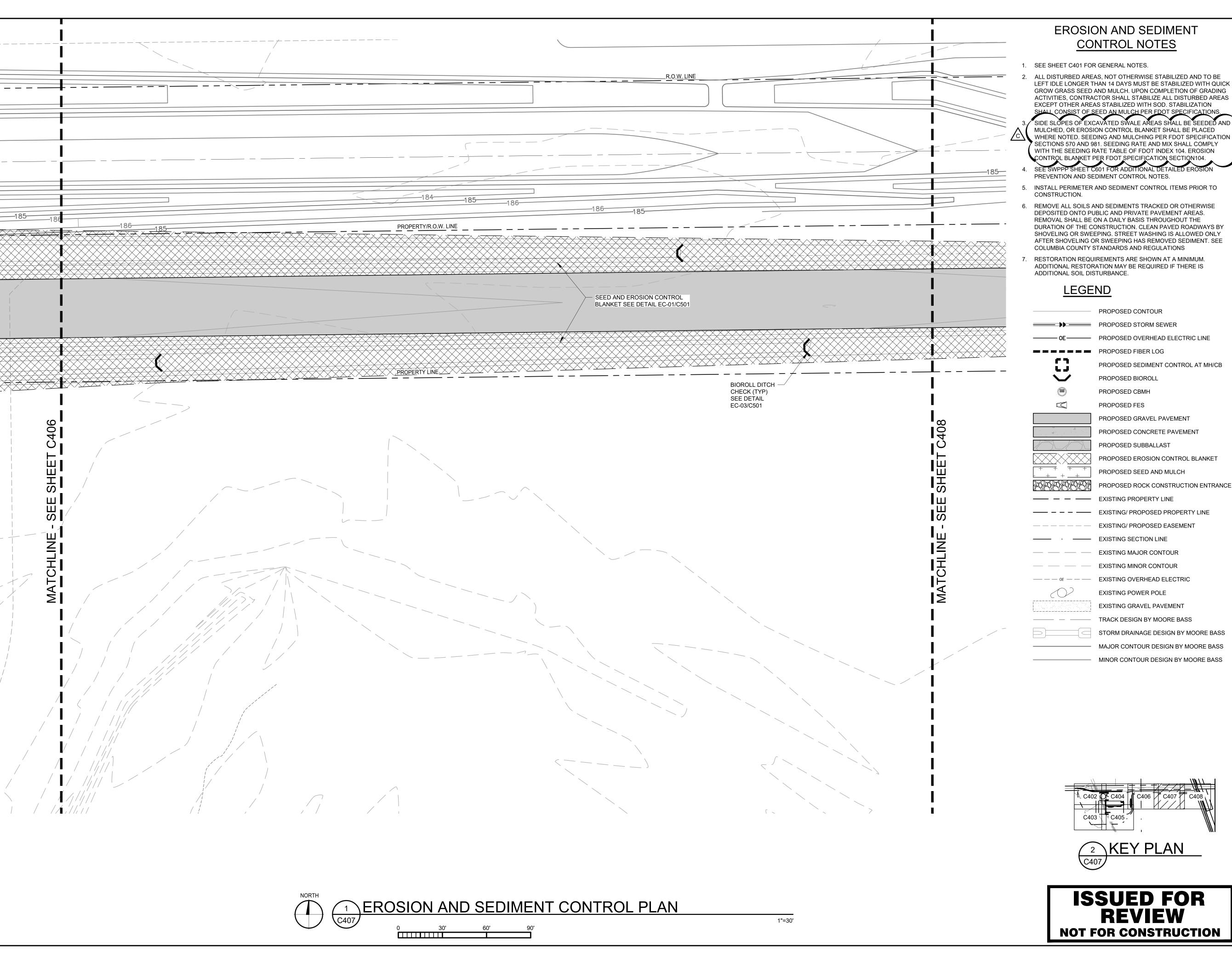
PROJECT:

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

NO	DATE	ISSUE/REVISION	B
Α	10/19/2023	DESIGN DEVELOPMENT	RC
В	12/11/2023	ISSUED FOR PERMIT	RC
С	01/04/2024	ADDENDUM 1	RC
D	09/11/2024	OWNER CHECK SET	RC

10/19/2023		RCQ	
DESIGNED:	CHECKE	D:	APPROVED:
AJR	ARL		MDM

DRAWING TITLE:



## **EROSION AND SEDIMENT**

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

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

- PREVENTION AND SEDIMENT CONTROL NOTES.
- INSTALL PERIMETER AND SEDIMENT CONTROL ITEMS PRIOR TO
- 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
- RESTORATION REQUIREMENTS ARE SHOWN AT A MINIMUM. ADDITIONAL RESTORATION MAY BE REQUIRED IF THERE IS

PROPOSED STORM SEWER

PROPOSED SEDIMENT CONTROL AT MH/CB

PROPOSED GRAVEL PAVEMENT

PROPOSED SUBBALLAST PROPOSED EROSION CONTROL BLANKET

PROPOSED SEED AND MULCH

EXISTING MAJOR CONTOUR

EXISTING OVERHEAD ELECTRIC

EXISTING POWER POLE

TRACK DESIGN BY MOORE BASS

MAJOR CONTOUR DESIGN BY MOORE BASS

MINOR CONTOUR DESIGN BY MOORE BASS

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

2300 Berkshire Lane N, Suite 200

**GREYSTONE** 

CONSTRUCTION

YOUR VISION. OUR TEAM. GREAT PROJECTS.

Phone: 888-742-6837

Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

**NEW LIQUID** FERTILIZER FACILITY

LAKE CITY, FL

A 10/19/2023 DESIGN DEVELOPMENT

B 12/11/2023 ISSUED FOR PERMIT

C 09/11/2024 OWNER CHECK SET

ISSUE/REVISION

Plymouth, MN 55441

PROJECT:

NO DATE

CERTIFICATION:

www.vaaeng.com

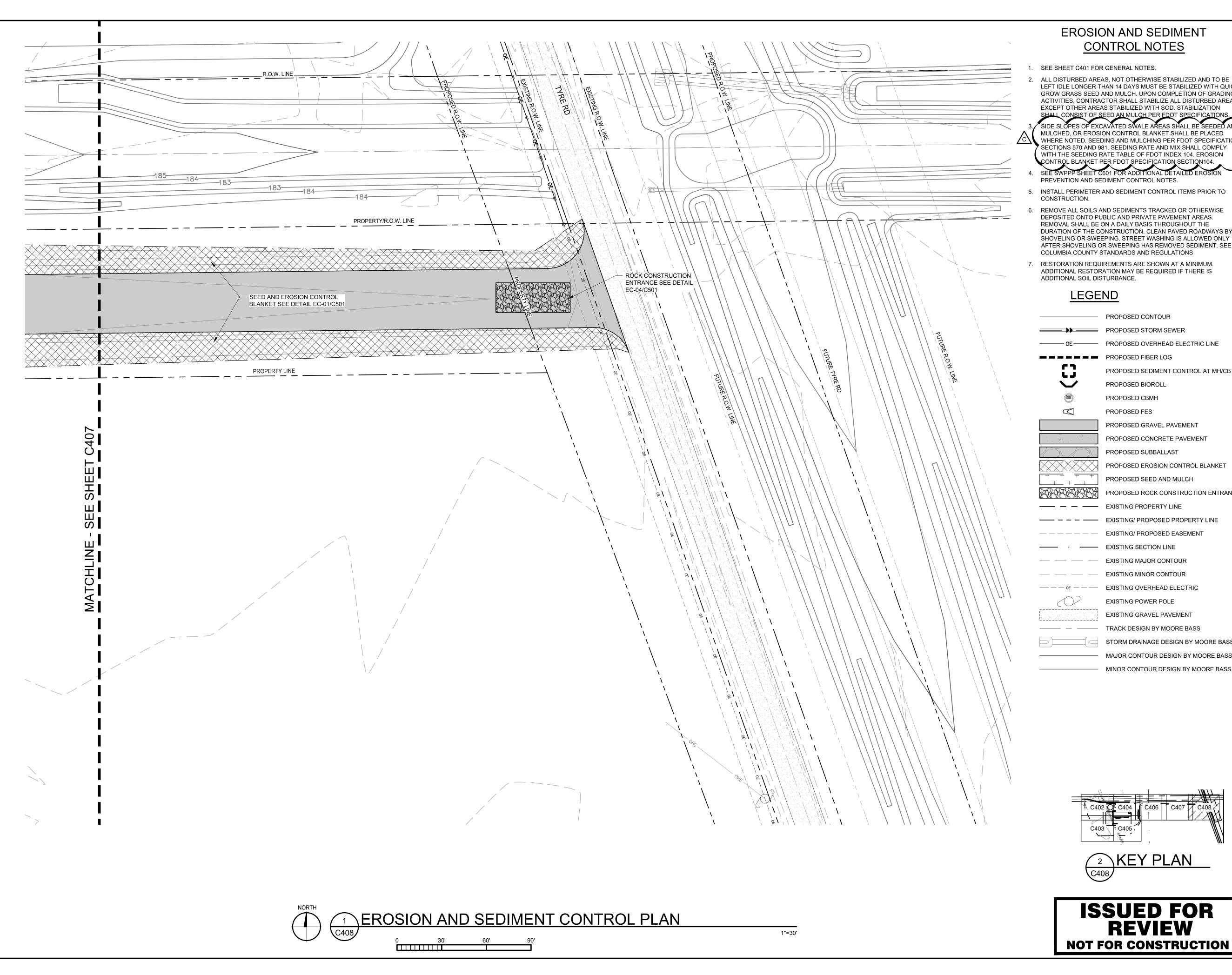
Project # 230384

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED:	CHECKE	L	APPROVED:
AJR	ARL	ED:	MDM

DRAWING TITLE:

**EROSION AND** SEDIMENT CONTROL PLAN

ı		
	PROJECT NO:	DRAWING NO:
	230384	C407
	SCALE:	C407
	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

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

- PREVENTION AND SEDIMENT CONTROL NOTES.
- 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
- 7. RESTORATION REQUIREMENTS ARE SHOWN AT A MINIMUM. ADDITIONAL RESTORATION MAY BE REQUIRED IF THERE IS ADDITIONAL SOIL DISTURBANCE.

PROPOSED STORM SEWER

PROPOSED OVERHEAD ELECTRIC LINE PROPOSED FIBER LOG

PROPOSED SEDIMENT CONTROL AT MH/CB PROPOSED BIOROLL

PROPOSED FES

PROPOSED CONCRETE PAVEMENT

PROPOSED EROSION CONTROL BLANKET

PROPOSED SEED AND MULCH

EXISTING MINOR CONTOUR

EXISTING OVERHEAD ELECTRIC

TRACK DESIGN BY MOORE BASS

STORM DRAINAGE DESIGN BY MOORE BASS

MAJOR CONTOUR DESIGN BY MOORE BASS

MINOR CONTOUR DESIGN BY MOORE BASS

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

2300 Berkshire Lane N, Suite 200

**GREYSTONE** 

CONSTRUCTION

YOUR VISION. OUR TEAM. GREAT PROJECTS.

Phone: 888-742-6837

Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

**NEW LIQUID** 

FERTILIZER FACILITY

LAKE CITY, FL

A 10/19/2023 DESIGN DEVELOPMENT

B 12/11/2023 ISSUED FOR PERMIT

C 09/11/2024 OWNER CHECK SET

ISSUE/REVISION

Plymouth, MN 55441

PROJECT:

NO DATE

CERTIFICATION:

www.vaaeng.com Project # 230384

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

**EROSION AND** SEDIMENT CONTROL PLAN

PROJECT NO:	DRAWING NO:
230384	C400
SCALE:	C408
AS NOTED	

- INSTALL PERIMETER AND SEDIMENT CONTROL ITEMS PRIOR TO

PROPOSED CONTOUR

PROPOSED CBMH

PROPOSED GRAVEL PAVEMENT PROPOSED SUBBALLAST

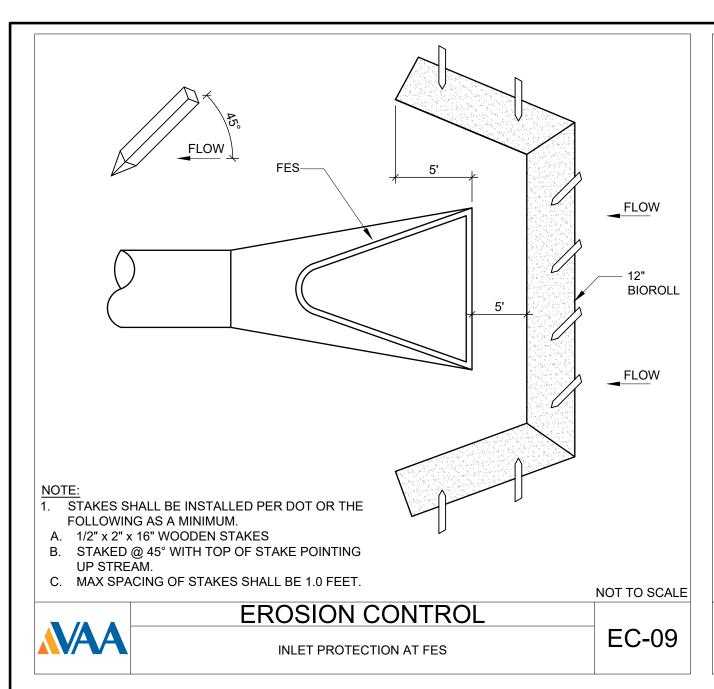
PROPOSED ROCK CONSTRUCTION ENTRANCE

—— — — EXISTING/ PROPOSED PROPERTY LINE

---- • EXISTING SECTION LINE EXISTING MAJOR CONTOUR

EXISTING POWER POLE **EXISTING GRAVEL PAVEMENT** 

2 KEY PLAN



TIE LAST (3) JOINTS ON INLET & OUTLET W/

-HAND PLACED RIPRAP, INDIVIDUAL STONES SHALL NOT WEIGH LESS THAN 50 LBS. EXCEPT THOSE USED

FOR CHINKING

2-3/4" DIAMETER GALVANIZED TIE BOLT FASTENERS PER JOINT INSTALLED AT 60°

FROM TOP OF PIPE

MIRAFI 180N GEOTEXTILE OR-

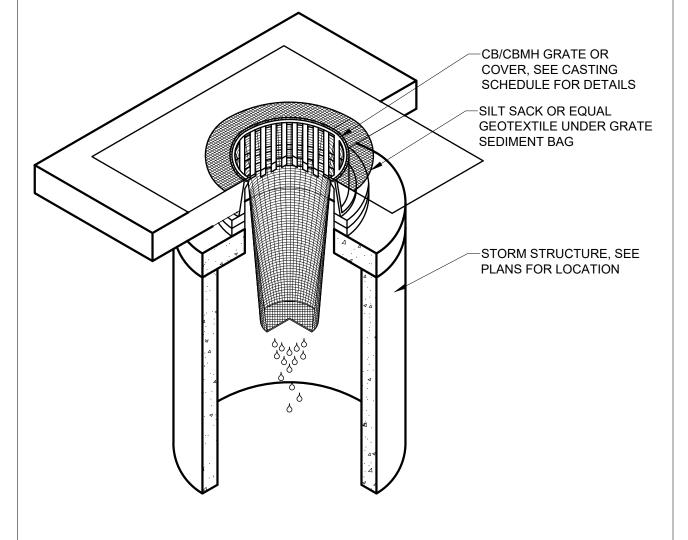
MIRAFI 180N GEOTEXTILE OR-

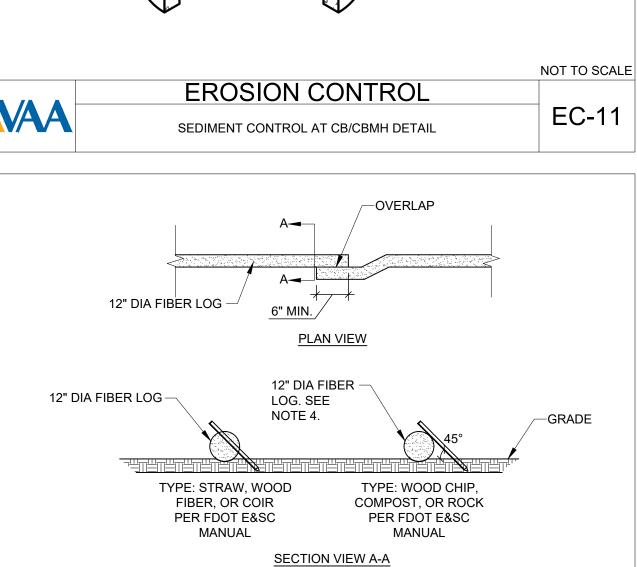
FILTER BLANKET (2)

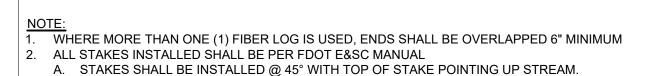
**NAA** 

FILTER BLANKET

HAND PLACED RIPRAP



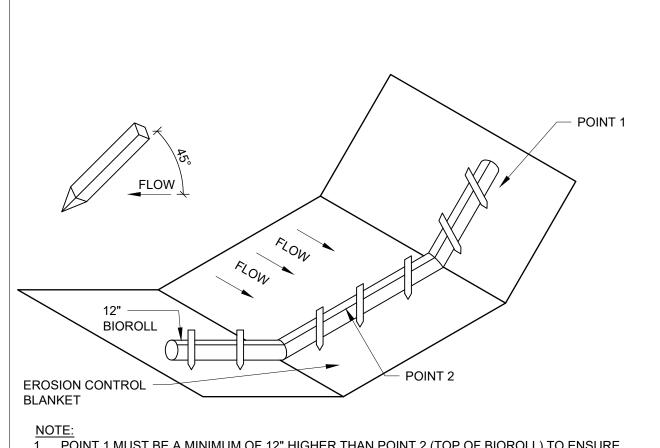




B. MAXIMUM SPACING OF STAKES SHALL BE 1.0 FEET.
3. CONTRACTOR MAY SUBMIT SHOP DRAWING FOR APPROVED EQUAL PRIOR TO CONSTRUCTION.
4. ROCK LOG SHALL BE USED WHEN SEDIMENT CONTROL LOG IS PLACED ON PAVED SURFACES

		NOT TO SC
<b>3</b> /A A	EROSION CONTROL	
MAA	FIBER LOG DETAIL	EC-0

AND SEDIMENT CONTROL LOGS ARE UNABLE TO BE STAKED



NOTES: 1. FOR PIPES GREATER THAN OR EQUAL TO 30", USE 1.5'.

2. THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE A GEOTEXTILE FABRIC FOR THE GRANULAR FILTER BLANKET U.N.O THE FABRIC SHOULD COVER THE AREA OF THE RIPRAP AND EXTEND UNDER THE CULVERT APRON 3 FEET.

SECTION A-A

**SECTION B-B** 

DEPTH

RIPRAP

(CY)

4.1

5.9

8.3

19.4

DEPTH

GRAN.

FILTER

2.1

3.0

4.2

9.7

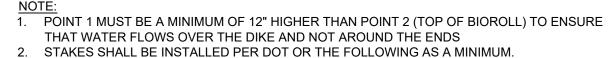
PROVIDE RIPRAP & GRANULAR FILTER

AS FOLLOWS

3. ENSURE RIP RAP IS PLACED ON THE SLOPE TO THE TOP OF THE FES.

STORM	
RIPRAP AT RCP OUTLET DETAIL	STM-39

NOT TO SCALE

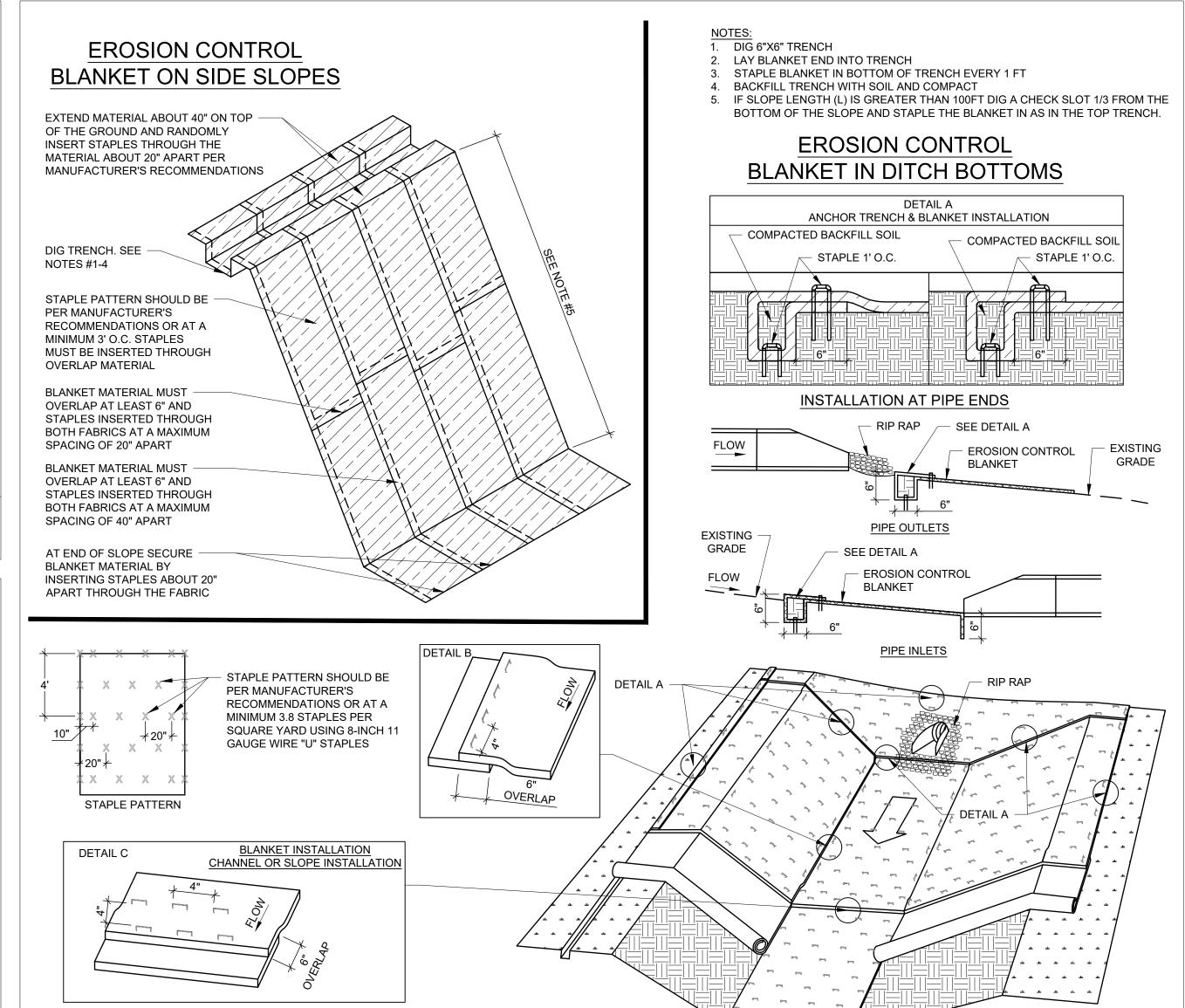


A. 1/2" x 2" x 16" WOODEN STAKESB. STAKED @ 45° WITH TOP OF STAKE POINTING UP STREAM.

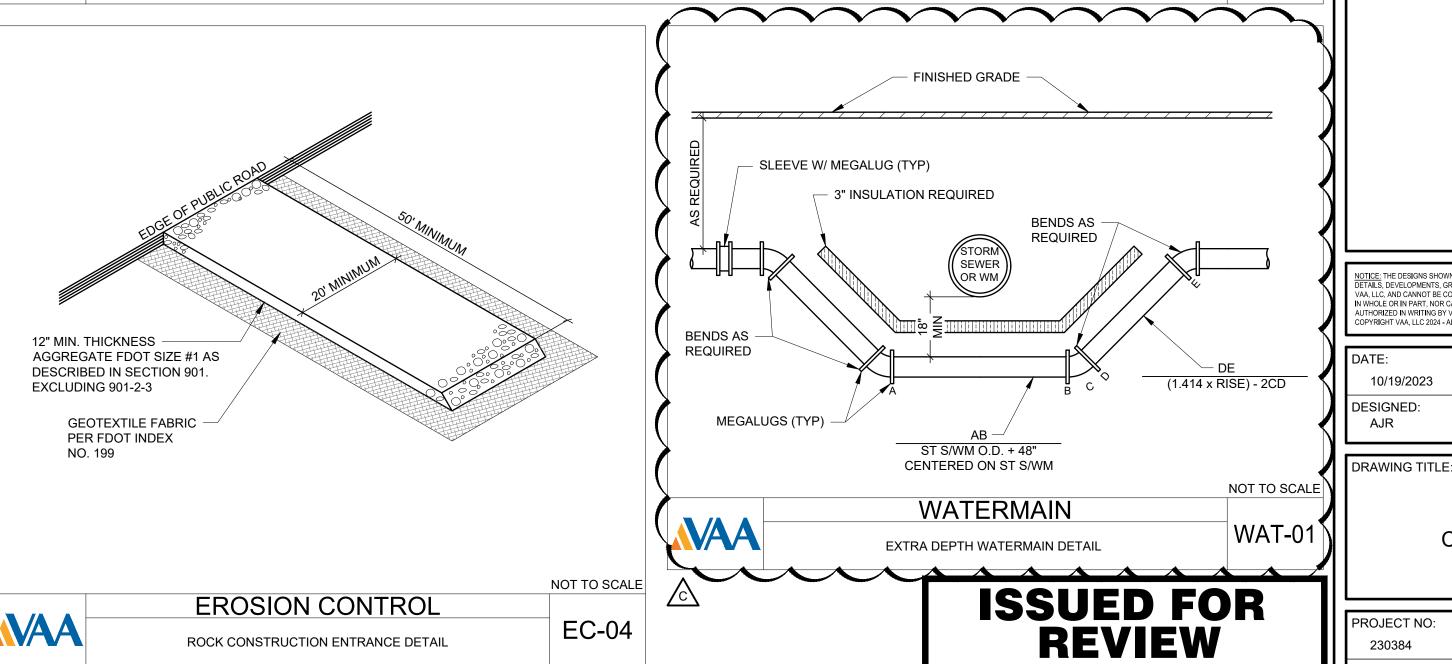
C. MAX SPACING OF STAKES SHALL BE 1.0 FEET.

		NOT TO SCALE
	EROSION CONTROL	
MAA	BIOROLL DITCH CHECK DETAIL	EC-03

NOT TO SCALE









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



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
Α	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	09/11/2024	OWNER CHECK SET	RCQ

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY OF VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC.

COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

10/19/2023		RCQ	
DESIGNED:	CHECKE	ED:	APPROVED:
AJR	ARL		MDM

CIVIL DETAILS

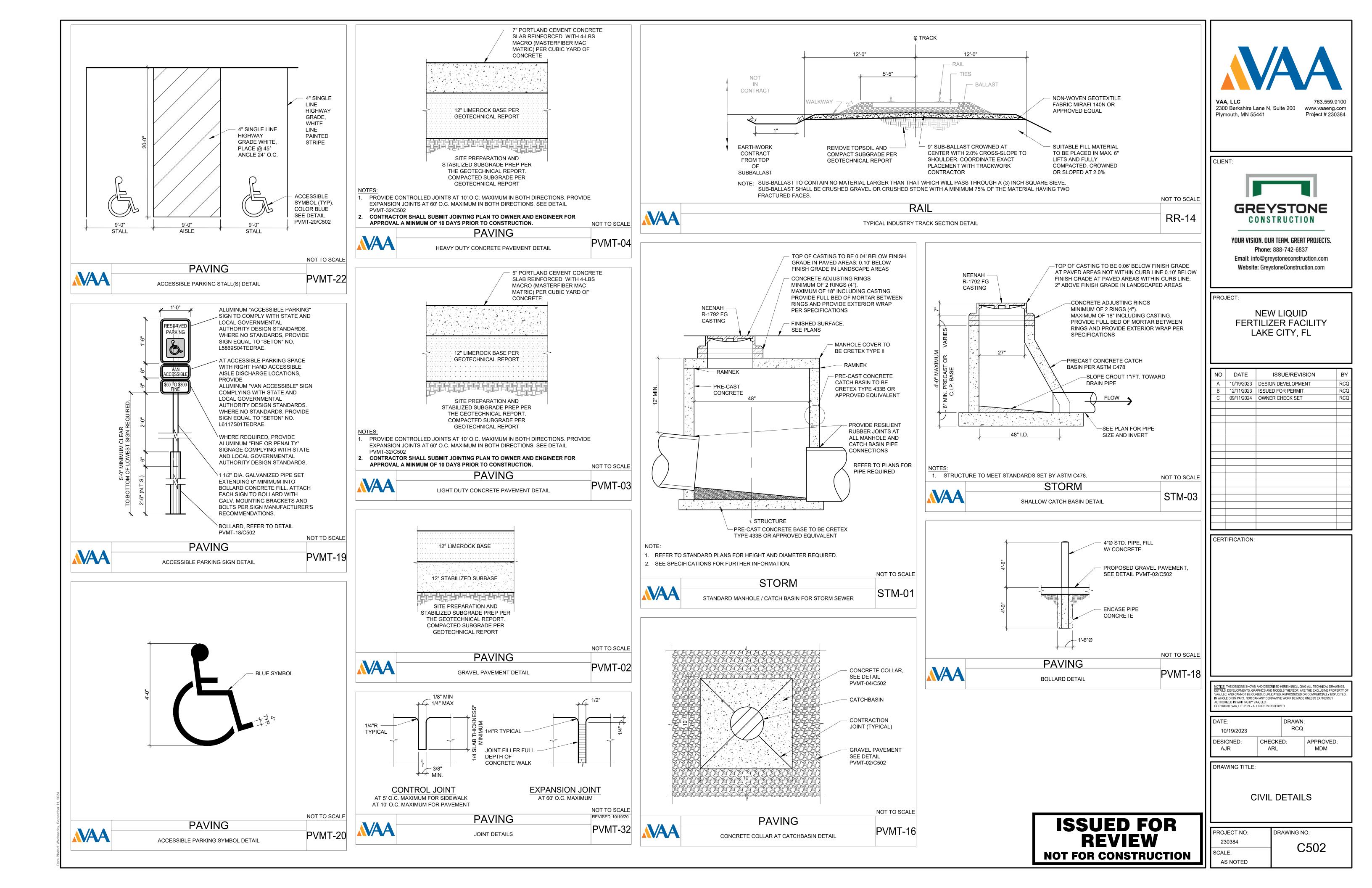
PROJECT NO:
230384

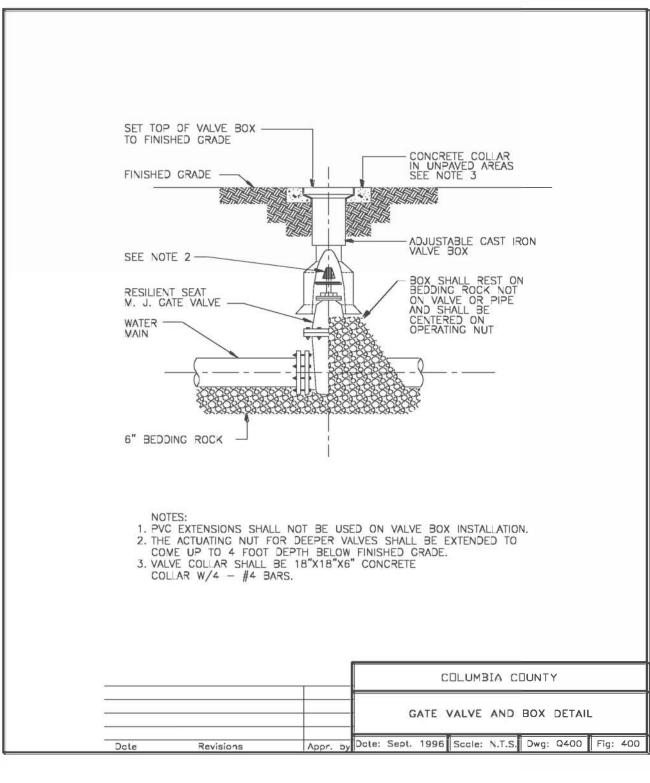
SCALE:
AS NOTED

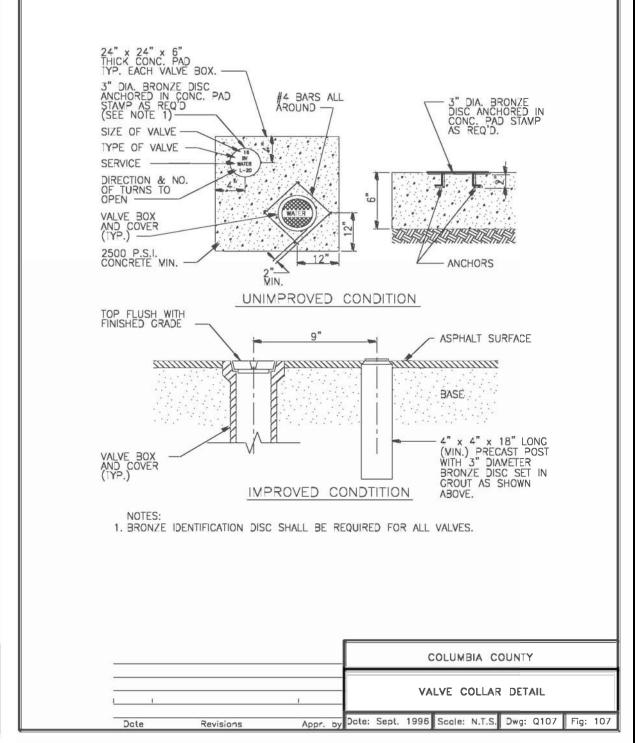
DRAWING NO:

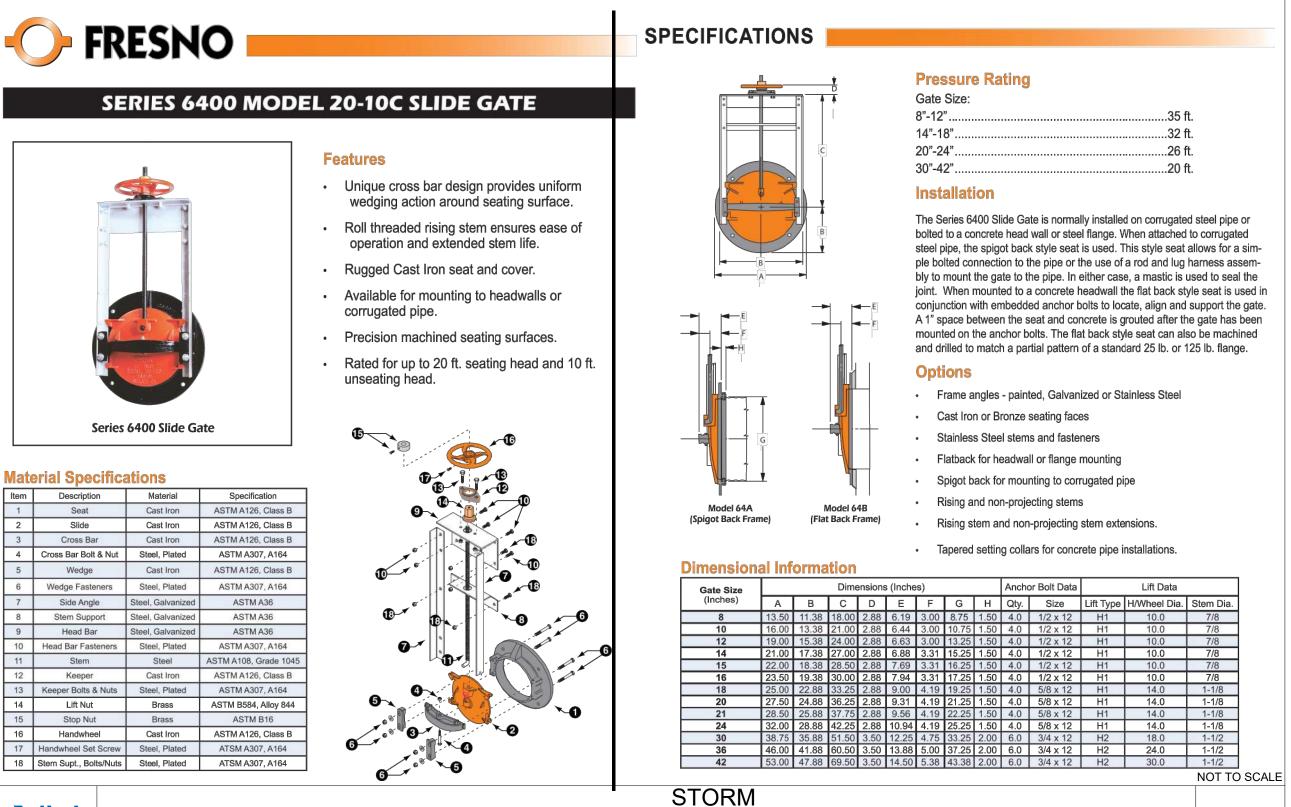
C501

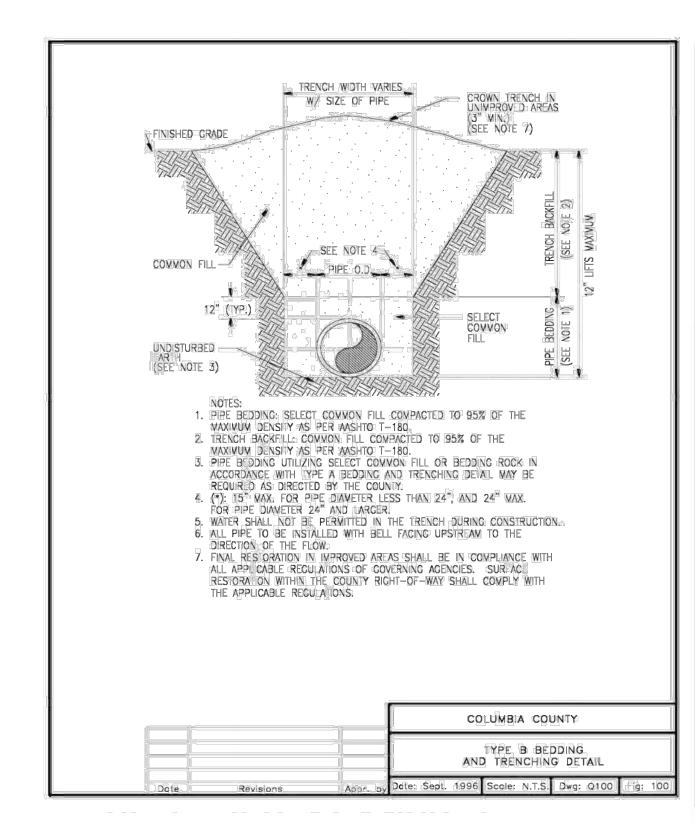
**NOT FOR CONSTRUCTION** 

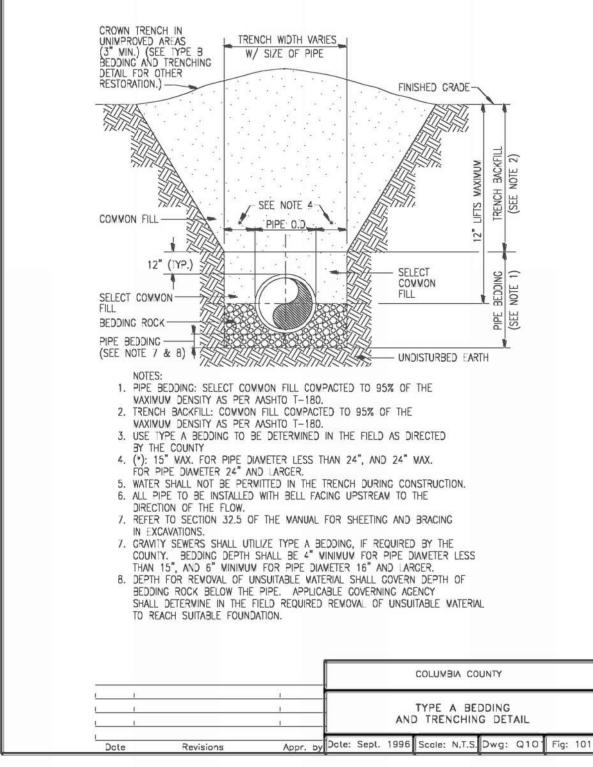


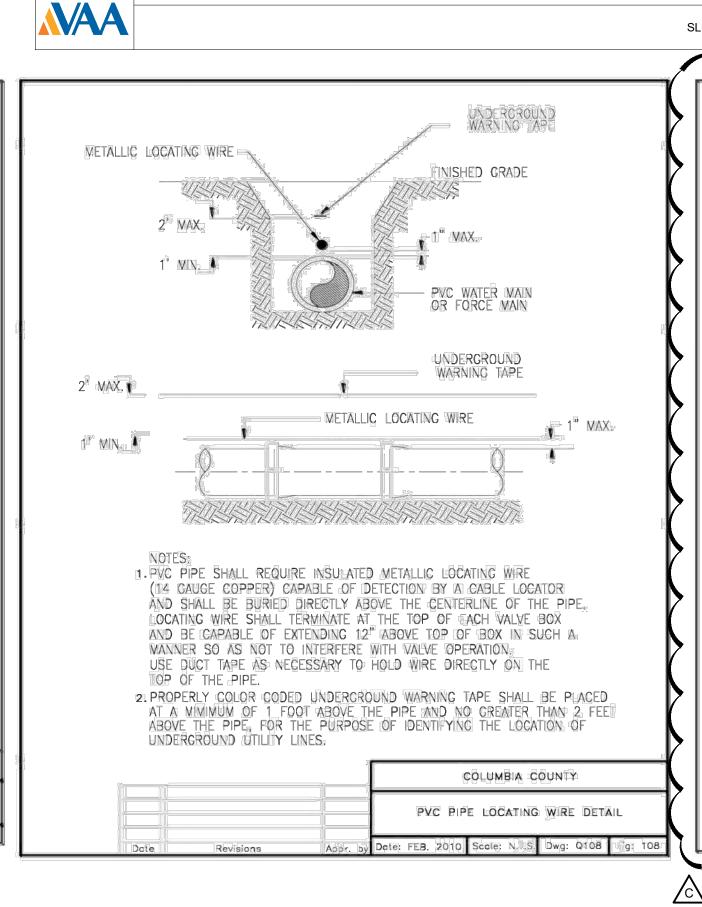


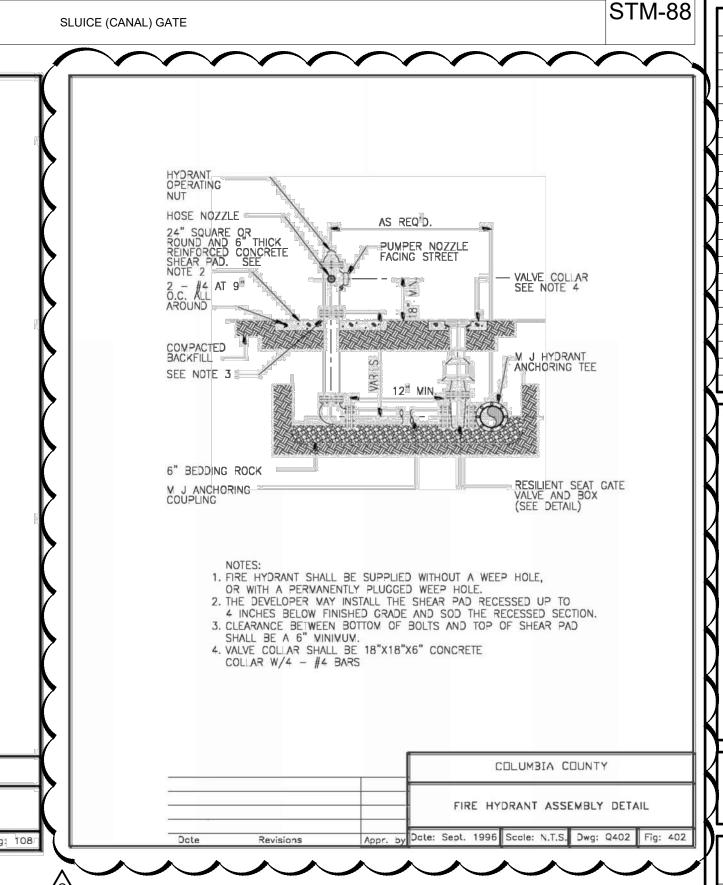














www.vaaeng.com

Project # 230384

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

CLIENT:



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 12/11/2024 OWNER CHECK SET RCQ
C 09/11/2024 OWNER CHECK SET

NOTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, DETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROPERTY O VAA, LLC, AND CANNOT BE COPIED, DUPLICATED, REPRODUCED OR COMMERCIALLY EXPLOITED, IN WHOLE OR IN PART, NOR CAN ANY DERIVATIVE WORK BE MADE UNLESS EXPRESSLY AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

DATE:

10/19/2023

DESIGNED:
AJR

CHECKED:
ARL

APPROVED:
MDM

DRAWING TITLE:

CIVIL DETAILS

ISSUED FOR REVIEW
NOT FOR CONSTRUCTION

	L		
	F	PROJECT NO:	DRAWING NO
	Ш	230384	
N I	5	SCALE:	

AS NOTED

## CONSTRUCTION ACTIVITY REQUIREMENTS

THE GENERAL STORMWATER NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS REQUIRED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. THE PERMITEE(S) AS INDICATED IN THE PERMIT, MUST IMPLEMENT THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS DEMONSTRATED HEREIN AND WITHIN THE SWPPP NARRATIVE. THE BEST MANAGEMENT PRACTICES (BMP's) IDENTIFIED MUST BE INSTALLED IN AN APPROPRIATE AND FUNCTIONAL WAY TO PREVENT DIRT AND/OR DEBRIS FROM ENTERING THE STORM SEWER OR BEING TRANSPORTED OFF SITE IN AN UNCONTROLLED MANNER.

FOR REQUIREMENTS ASSOCIATED WITH FISH/WILDLIFE/RIVERS AND OTHER BODIES OF WATER, SEE FLORIDA DEP.

#### EROSION PREVENTION PRACTICES

1. ALL EXPOSED SOIL MUST BE STABILIZED AS SOON AS POSSIBLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE WHERE WORK HAS TEMPORARILY OR PERMANENTLY CEASED.

THESE AREAS INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTED STORMWATER MANAGEMENT POND, SIDE SLOPES, AND ANY EXPOSED SOIL AREAS WITH A POSITIVE SLOPE TO STORMWATER CONVEYANCE SYSTEM, SUCH AS A CURB AND GUTTER SYSTEM, STORM SEWER INLET, TEMPORARY OR PERMANENT DRAINAGE DITCH OR OTHER NATURAL OR MANMADE SYSTEMS THAT DISCHARGE TO A SURFACE WATER.

- 2. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM A CONSTRUCTION SITE, OR DIVERTS WATER AROUND A SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZATION MUST BE COMPLETED WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER.
- 3. PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER. CONTRACTOR TO PREVENT DIRT AND/OR DEBRIS FROM ENTERING STORM SEWER OR BEING TRANSPORTED OFF-SITE IN AN UNCONTROLLED MANNER. CONTRACTOR TO VERIFY AT PROJECT CLOSE-OUT THAT STORM SEWER SYSTEM IS CLEAR OF SEDIMENT AND/OR DEBRIS AND IS FULLY FUNCTIONAL. CONTRACTOR TO FOLLOW BEST MANAGEMENT PRACTICES (BMP'S).
- 4. ALL DISTURBED AREAS, EXCEPT ROADWAYS, BUILDING AREAS, PARKING AREAS, ISLANDS AND SIDEWALKS, SHALL BE RESTORED WITH MINIMUM 6 INCHES TOPSOIL, SEEDED AND MULCHED AS SOON AS POSSIBLE AND NO LATER THAN 14 DAYS OF COMPLETION OF SITE GRADING.
- 5. IN ORDER TO MAINTAIN SHEET FLOW AND MINIMIZE HILLS AND/OR GULLIES, THERE SHALL BE NO UNBROKEN SLOPE LENGTH OF GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER.
- 6. EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL 3:1 SLOPES AND STEEPER, DITCH BOTTOMS AND OTHER "HARD TO HOLD" AREAS AS SHOWN.

#### SEDIMENT CONTROL PRACTICES

- 1. CONTRACTOR TO INSTALL SEDIMENT CONTROL ELEMENTS PRIOR TO START OF LAND DISTURBING ACTIVITIES, MAINTAIN IN GOOD CONDITION DURING CONSTRUCTION AND REMOVE FROM THE SITE UPON COMPLETION OF FINAL PAVING AND TURF ESTABLISHMENT. REMOVE FROM SITE UPON COMPLETION OF FINAL STABILIZATION. ALL SEDIMENT CONTROL ELEMENTS ARE TEMPORARY.
- 2. TEMPORARY ROCK CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL CONSTRUCTION ACCESS LOCATIONS. SEE DETAIL EC-04/C501.
- 3. 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.
- 4. SEDIMENT CONTROL PRACTICES MUST DETER SEDIMENT FROM ENTERING SURFACE WATERS, INCLUDING CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS SEE DETAIL EC-11/C501.
- 5. TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS THAT ARE DESIGNED AS PART OF A TREATMENT SYSTEM (E.G., DITCHES WITH ROCK CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS.
- 6. SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE PRACTICES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

#### SEDIMENT CONTROL PRACTICES CONTINUED

- 7. IF THE DOWN GRADIENT TREATMENT SYSTEM IS OVERLOADED, ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES MUST BE INSTALLED TO ELIMINATE THE OVERLOADING, AND THE SWPPP MUST BE AMENDED TO IDENTIFY THESE ADDITIONAL PRACTICES.
- 8. THE TIMING OF THE INSTALLATION OF SEDIMENT CONTROL PRACTICES MAY BE ADJUSTED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES. ANY SHORT-TERM ACTIVITY MUST BE COMPLETED AS QUICKLY AS POSSIBLE AND THE SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IMMEDIATELY AFTER THE ACTIVITY IS COMPLETED. HOWEVER, SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE ACTIVITY IS NOT COMPLETE.
- 9. CONTRACTOR TO INSTALL AND MAINTAIN INLET PROTECTION AROUND ALL EXISTING CATCHBASINS, CATCHBASIN MANHOLES, AND FLARED END SECTIONS PRIOR TO THE START OF LAND DISTURBING ACTIVITIES AND AROUND ALL NEW CATCHBASINS, CATCHBASIN MANHOLES, AND FLARED END SECTIONS AFTER THEY ARE INSTALLED, UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. SEE DETAILS EC-11/C501, EC-09/C501.
- 10. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS, AND CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORM WATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES.
- 11. STOCKPILE AREAS WHICH REMAIN INACTIVE FOR MORE THAN 14 DAYS SHALL BE SEEDED, MULCHED, AND SURROUNDED BY SILT FENCE.
- 12. THE PERMITEE(S) MUST INSTALL TEMPORARY SEDIMENTATION BASINS AS REQUIRED PER THE AUTHORITY HAVING JURISDICTION. IT IS RECOMMENDED THAT THE TEMPORARY BASIN BE INSTALLED IN THE LOCATION OF THE PERMANENT BASIN. CONTRACTOR TO CLEAN OUT ALL SEDIMENT AND RETURN BASIN TO DESIGN CAPACITY PRIOR TO FINAL STABILIZATION.

#### DEWATERING AND BASIN DRAINING

- DEWATERING OR BASIN DRAINING (E.G. PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) RELATED TO THE CONSTRUCTION ACTIVITY THAT MAY HAVE TURBID OR SEDIMENT LADEN DISCHARGE WATER MUST BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE WHENEVER POSSIBLE. IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMP's, SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM LANDOWNERS. THE PERMITEE(S) MUST ENSURE THAT DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. THE DISCHARGE MUST BE DISPERSED OVER NATURAL ROCK RIPRAP, SAND BAGS, PLASTIC SHEETING OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES. ADEQUATE SEDIMENTATION CONTROL MEASURES ARE REQUIRED FOR DISCHARGE WATER THAT CONTAINS SUSPENDED SOLIDS.
- 2. ALL WATER FROM DEWATERING OR BASIN DRAINING ACTIVITIES MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION IN RECEIVING CHANNELS OR ON DOWNSLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.
- 3. ANY DEWATERING ACTIVITY SHALL BE APPROVED BY THE ENGINEER AND THE APPROPRIATE GOVERNING AGENCIES PRIOR TO CONSTRUCTION.

#### INSPECTIONS AND MAINTENANCE

INSPECTIONS AND MAINTENANCE ARE CONDUCTED BY THE SUPERVISOR/CONTRACTOR AND MUST CONFORM TO THE SWPPP NARRATIVE.

#### IMPLEMENTATION SCHEDULE

THE IMPLEMENTATION SCHEDULE MUST CONFORM TO THE SWPPP NARRATIVE.

#### TEMPORARY EROSION CONTROL PLAN

INSTALL SEDIMENT PONDS AT RATE OF 1800 CF OF DEAD STORAGE PER ACRE OF DISTURBED LAND. TEMPORARY SEDIMENT BASINS SHALL BE OPERATIONAL UNTIL PERMANENT COVER IS ESTABLISHED FOR THE ENTIRE DRAINAGE AREA OF THE TEMPORARY BASIN. TEMPORARY SEDIMENT BASINS MUST BE CONSTRUCTED AND MADE OPERATIONAL CONCURRENTLY WITH THE START OF SOIL DISTURBANCE THAT IS UPGRADIENT OF THE AREA AND CONTRIBUTES RUNOFF TO THE POND.

BEFORE CONSTRUCTION	AFTER CONSTRUCTION
22.60 ACRE	22.60 ACRE
NA	17.49 ACRE
0.0 ACRE	9.29 ACRE
22.60 ACRE	13.31 ACRE
Х	Х
	CONSTRUCTION 22.60 ACRE NA 0.0 ACRE 22.60 ACRE

	ВМР	ESTIMATED QUANTITIES OF BMP'S	UNITS	
	OUTLET PROTECTION WITH RIP RAP	90.7	CY	
	FES INLET PROTECTION	120	LF	
	BIO-ROLLS	276	<b>5</b> 年へ	
(	SEED	8.76	ACRES	
1	FERTILIZER	8.76	ACRES	
/	MULCH	5.54	ACRES	Δ
	CONSTRUCTION ENTRANCE		EA	$\nabla_{\Omega}$
	EROSION CONTROL BLANKET	15,620	SY )	
À		ノノノ		=

#### **SWPPP CONTACT INFORMATION:**

OWNER: TO

TODD CRESSMSAN AGROLIQUID 3055 W M-21 SAINT JOHNS, MI 48879

SHAKOPEE, MN 55379

PROJECT SITE MANAGER: T.B.D.

CONTRACTOR:

GREYSTONE CONSTRUCTION 2995 WINNERS CIRCLE DRIVE, SUITE 200

THE SITE CONTRACTOR IS THE PARTY RESPONSIBLE TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED AND THE "NOTICE OF TERMINATION" IS SUBMITTED. SEE THE GENERAL STORMWATER PERMIT FROM THE AUTHORITY HAVING JURISDICTION FOR REGULATIONS.

#### **CONSTRUCTION DATES:**

ESTIMATED PROJECT START DATE: XX/XX/XXXX ESTIMATED PROJECT COMPLETION DATE: XX/XX/XXXX

ALL INFORMATION WITHIN THE PLAN SET AND SPECIFICATIONS IS TO BE USED IN ACCORDANCE WITH THE SWPPP NARRATIVE AND THE LATEST CONSTRUCTION DOCUMENTS.



GREYSTONE

YOUR VISION. OUR TEAM. GREAT PROJECTS.

Phone: 888-742-6837

Email: info@greystoneconstruction.com

Website: GrevstoneConstruction.com

PROJECT:

NEW LIQUID FERTILIZER FACILITY LAKE CITY, FL

NO	DATE	ISSUE/REVISION	BY
A	10/19/2023	DESIGN DEVELOPMENT	RCQ
В	12/11/2023	ISSUED FOR PERMIT	RCQ
С	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ

OTICE: THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRA	WINGS,
ETAILS, DEVELOPMENTS, GRAPHICS AND MODELS THEREOF, ARE THE EXCLUSIVE PROI	
AA LLC AND CANNOT RECODIED DIIDI ICATED PEDRODIICED OR COMMERCIALLY EYE	LOITER

DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKE ARL	ED:	APPROVED: MDM

DRAWING TITLE:

AUTHORIZED IN WRITING BY VAA, LLC. COPYRIGHT VAA, LLC 2024 - ALL RIGHTS RESERVED.

CERTIFICATION:

STORMWATER
POLLUTION
PREVENTION PLAN
(SWPPP)

PROJECT NO:
230384

SCALE:
AS NOTED

DRAWING NO:

C601

ISSUED FOR REVIEW
NOT FOR CONSTRUCTION