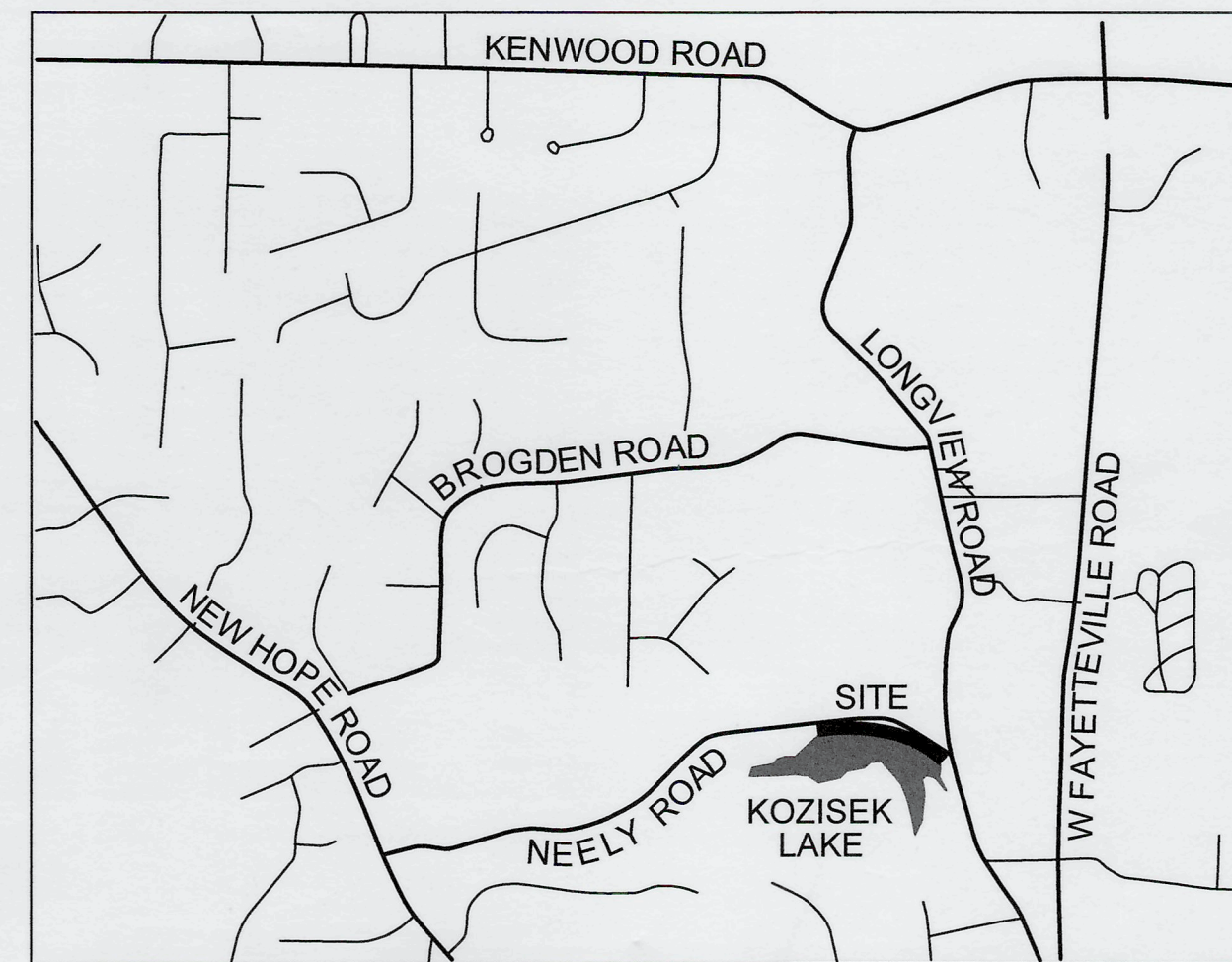


KOZISEK LAKE DAM IMPROVEMENTS PLANS FAYETTE COUNTY, GEORGIA

5th DISTRICT LAND LOT 198

DRAWING LIST

39022-C-100	DAM IMPROVEMENTS	-	PLOT PLAN
39022-C-101	DAM IMPROVEMENTS	-	RESERVOIR PLAN
39022-C-102	DAM IMPROVEMENTS	-	EXISTING CONDITIONS PLAN
39022-C-103	DAM IMPROVEMENTS	-	CLEARING/DEMOLITION PLAN
39022-C-104	DAM IMPROVEMENTS	-	LAYOUT PLAN
39022-C-105	DAM IMPROVEMENTS	-	UNDERCUT PLAN
39022-C-106	DAM IMPROVEMENTS	-	UNDERCUT SECTIONS
39022-C-107	DAM IMPROVEMENTS	-	GRADING PLAN
39022-C-107.1	DAM IMPROVEMENTS	-	DRAIN PLAN
39022-C-107.2	DAM IMPROVEMENTS	-	DRAIN SECTIONS
39022-C-108	DAM IMPROVEMENTS	-	PROFILES
39022-C-109	DAM IMPROVEMENTS	-	MISCELLANEOUS DETAILS
39022-C-110	UTILITIES	-	UTILITY PLAN
39022-C-111	SIPHON SPILLWAY	-	PLAN & PROFILE
39022-C-112	SIPHON SPILLWAY	-	SECTION AND DETAILS
39022-C-113	SIPHON SPILLWAY	-	OUTLET DETAILS
39022-C-114	BOX CULVERT	-	BOX CULVERT DETAILS
39022-C-115	BOX CULVERT	-	BOX CULVERT DETAILS
39022-C-200	ES&PC	-	NOTES
39022-C-201	ES&PC	-	MONITORING NOTES AND CHECKLIST
39022-C-202	ES&PC	-	INITIAL PLAN
38046-C-203	ES&PC	-	INTERMEDIATE PLAN
39022-C-204	ES&PC	-	FINAL PLAN
39022-C-205	ES&PC	-	DETAILS
39022-C-206	ES&PC	-	DETAILS
39022-C-207	ES&PC	-	DETAILS
39022-C-208	ES&PC	-	DETAILS



LOCATION MAP
N.T.S.

LAT - 33°29'36.90" N
LONG - 84°27'17.90" W



OWNER

FAYETTE COUNTY BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
PHONE: (770) 320-6010
CONTACT: PHIL MALLON, P.E.

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

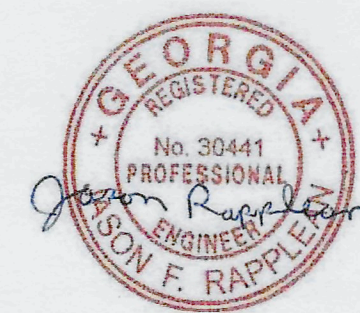
PROJECT DESIGN ENGINEER

WALDEN, ASHWORTH & ASSOCIATES, INC.
P.O. BOX 6462
MARIETTA, GEORGIA 30065
(770) 956-7879
CONTACT: MARTIN L. WALDEN, P.E., E.O.R.

PROJECT GEOTECHNICAL CONSULTANT

PIEDMONT GEOTECHNICAL CONSULTANTS, LLC
P.O. BOX 1997
ROSWELL, GEORGIA 30077
(770) 752-9205
CONTACT: W. MICHAEL BALLARD, P.E., E.O.R.

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT



APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

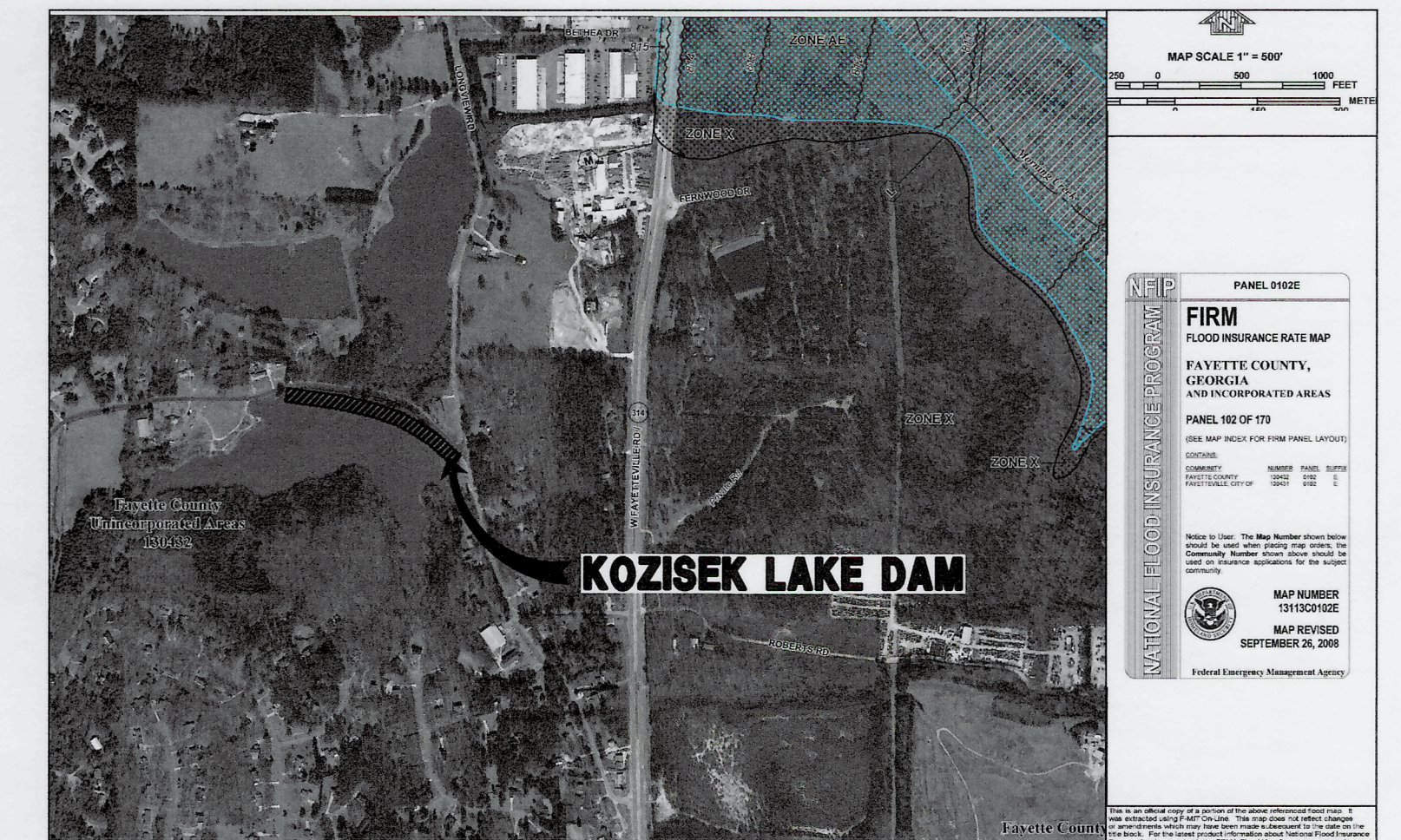
AUG 17 2023
Cullie Rappaport
Environmental Protection Division
Safe Dams Program



WALDEN, ASHWORTH & ASSOCIATES, INC.

CONSULTING ENGINEERS
P.O. BOX 6462
MARIETTA, GEORGIA 30065
WA&A JOB NO. 3902200
ISSUED: DECEMBER 2020
REV. MAY 26, 2023

NOTE: ALL SIGNS AND PAVEMENT MARKINGS
SHALL CONFORM TO STANDARDS ESTABLISHED
IN THE MANUAL ON UNIFORM TRAFFIC
CONTROL DEVICES, LATEST EDITION.



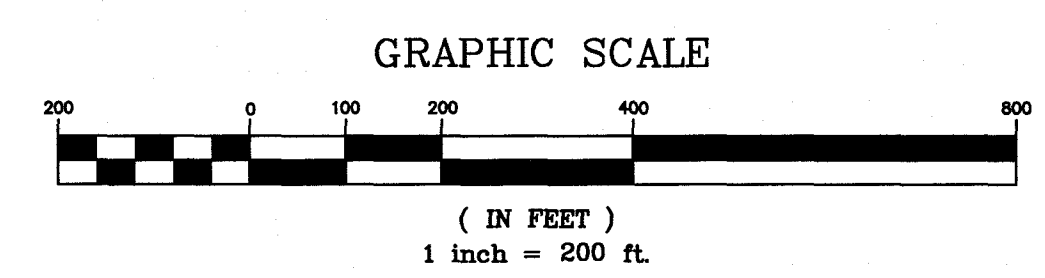
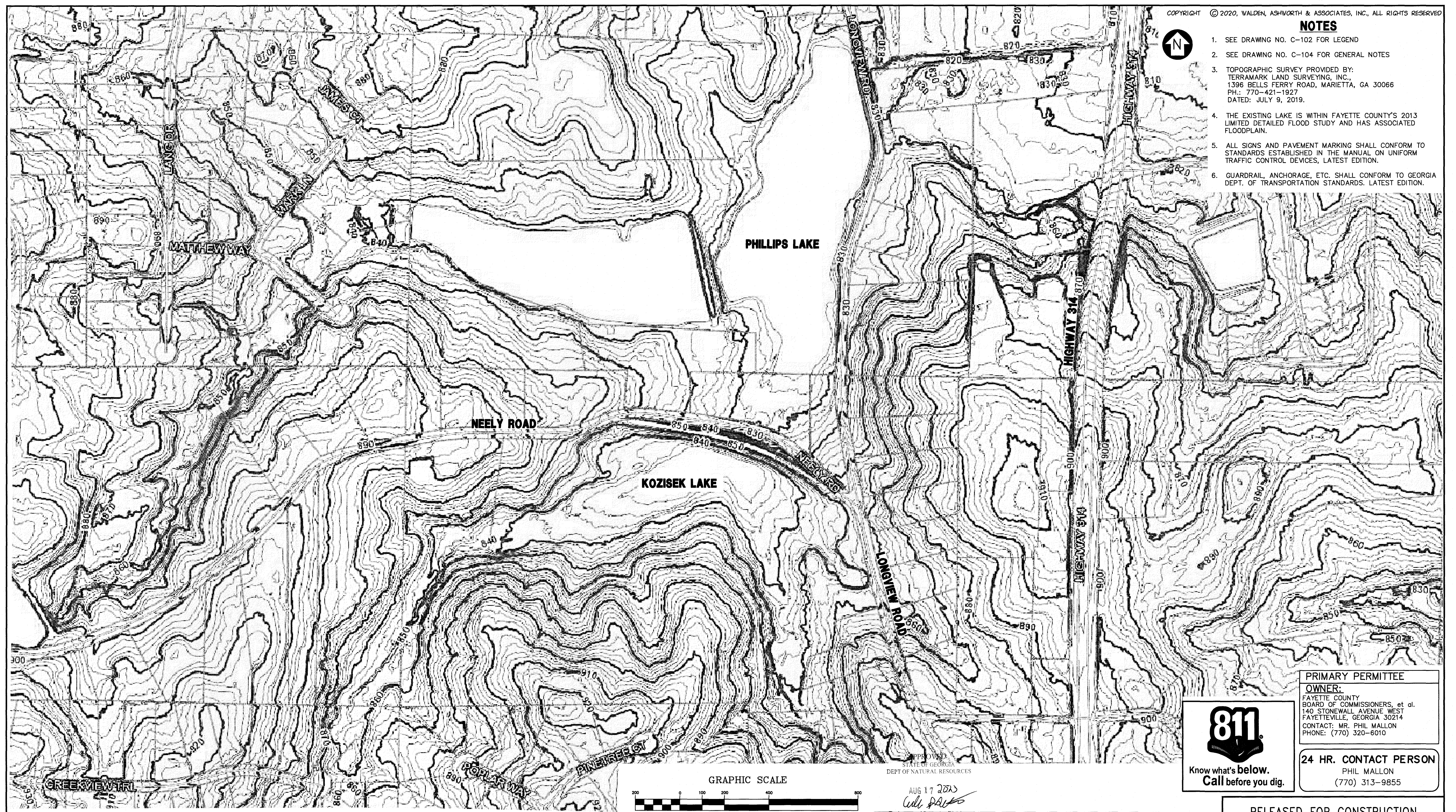
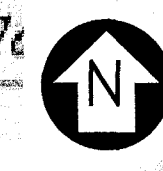
NOTE: EXISTING LAKE IS WITHIN
FAYETTE COUNTY'S 2013 LIMITED
DETAILS FLOOD STUDY AND
ASSOCIATED FLOODPLAIN.

F.I.R.M. PANEL

MAP NUMBER 13163C0150E
SCALE: AS SHOWN

NOTES

1. SEE DRAWING NO. C-102 FOR LEGEND
2. SEE DRAWING NO. C-104 FOR GENERAL NOTES
3. TOPOGRAPHIC SURVEY PROVIDED BY: TERRAMARK LAND SURVEYING, INC., 1396 BELLS FERRY ROAD, MARIETTA, GA 30066 PH.: 770-421-1927 DATED: JULY 9, 2019.
4. THE EXISTING LAKE IS WITHIN FAYETTE COUNTY'S 2013 LIMITED DETAILED FLOOD STUDY AND HAS ASSOCIATED FLOODPLAIN.
5. ALL SIGNS AND PAVEMENT MARKING SHALL CONFORM TO STANDARDS ESTABLISHED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
6. GUARDRAIL, ANCHORAGE, ETC. SHALL CONFORM TO GEORGIA DEPT. OF TRANSPORTATION STANDARDS. LATEST EDITION.



APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Walden

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010



24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

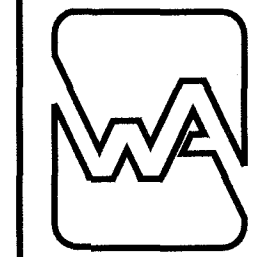
APPROVED 07/13/2023 FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT														
NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



5/26/2023

SCALE: 1"=200'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707 EXP: 06/30/2024	
JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE: 12/07/23.	

**KOZISEK LAKE
DAM IMPROVEMENTS
PLOT PLAN
FAYETTE COUNTY**



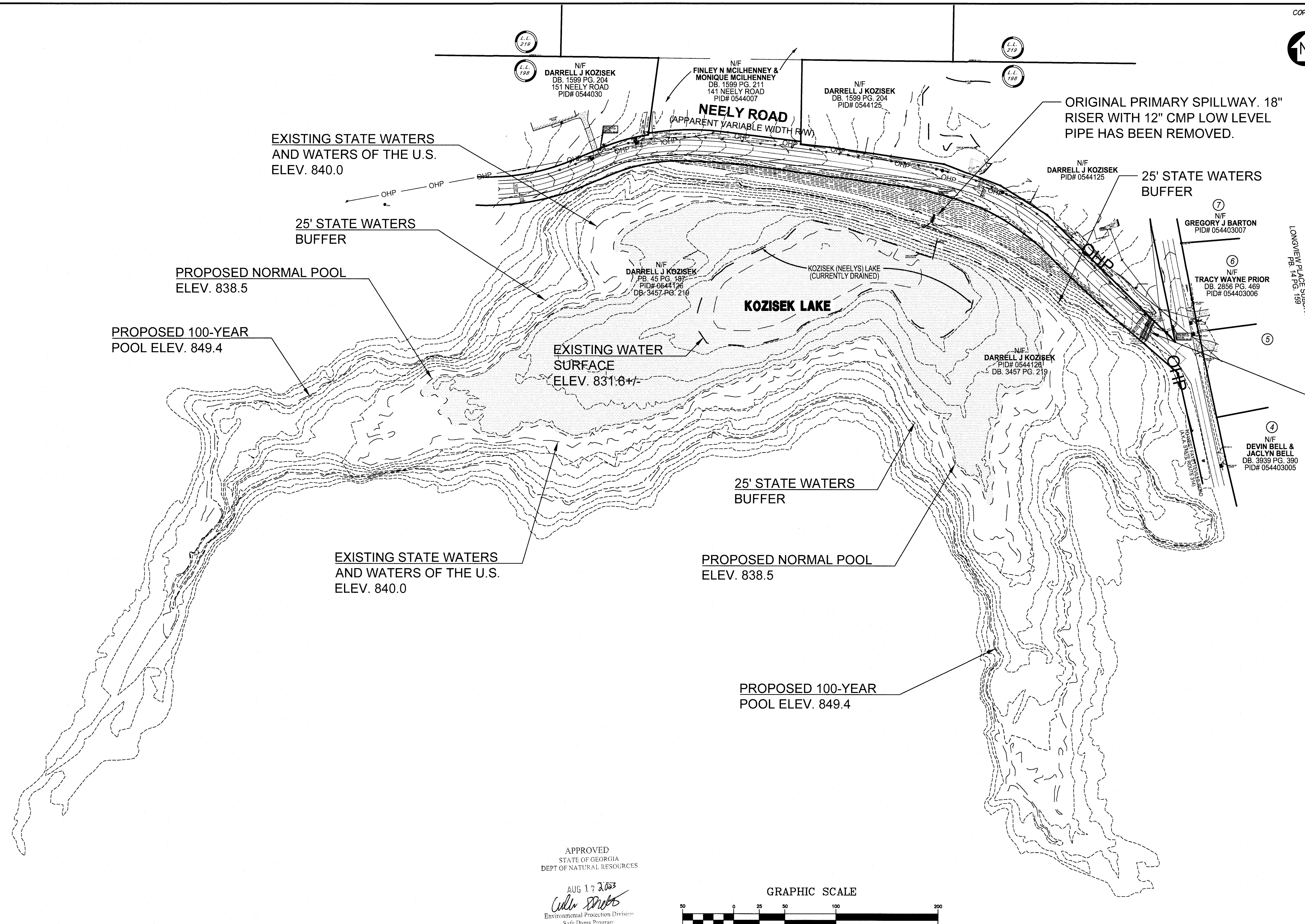
WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956 - 7897
COA: PEF000707 EXP: 06/30/2024

JOB NO. 3902200	DRAWING NUMBER 39022- C-100	REV. NO. 1
--------------------	---------------------------------------	----------------------



NOTES

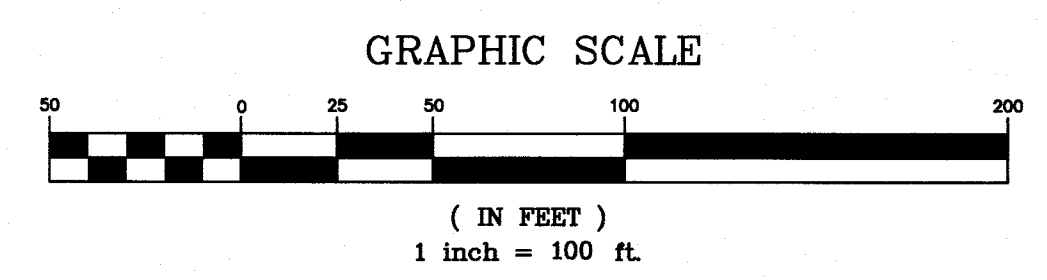
1. SEE DRAWING NO. C-102 FOR LEGEND
2. SEE DRAWING NO. C-104 FOR GENERAL NOTES
3. TOPOGRAPHIC SURVEY PROVIDED BY:
TERRAMARK LAND SURVEYING, INC.,
1396 BELLS FERRY ROAD, MARIETTA, GA 30066
PH.: 770-421-1927
DATED: JULY 9, 2019.
4. THE EXISTING LAKE IS WITHIN FAYETTE COUNTY'S 2013 LIMITED DETAILED FLOOD STUDY AND HAS ASSOCIATED FLOODPLAIN.
5. ALL SIGNS AND PAVEMENT MARKING SHALL CONFORM TO STANDARDS ESTABLISHED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
6. GUARDRAIL, ANCHORAGE, ETC. SHALL CONFORM TO GEORGIA DEPT. OF TRANSPORTATION STANDARDS. LATEST EDITION.



EXISTING SECONDARY SPILLWAY
24" CMP CULVERTS
INV. EL. 850.26 (UP-WEST)
INV. EL. 850.39 (UP-MIDDLE)
INV. EL. 850.99 (UP-EAST)
INV. EL. 849.15 (DN-WEST)
INV. EL. 849.16 (DN-MIDDLE)
INV. EL. 849.47 (DN-EAST)

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Willie Smith
Environmental Protection Division
Safe Dams Program



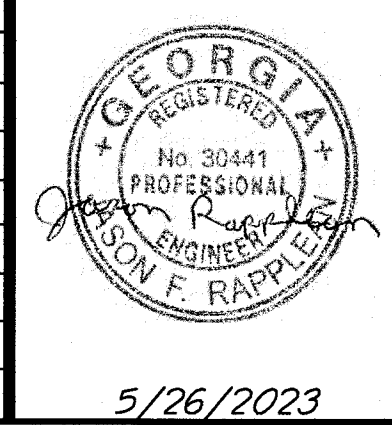
PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

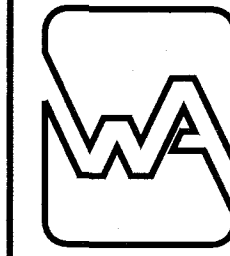
RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NO.	REVISIONS	MADE	CKD.	DATE	NO.	REVISIONS	MADE	CKD.	DATE



SCALE: 1"=100'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707 EXP: 06/30/2024	
JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE: 12/07/23	

**KOZISEK LAKE
DAM IMPROVEMENTS
RESERVOIR PLAN
FAYETTE COUNTY**



WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200	DRAWING NUMBER 39022- C-101	REV. NO. 1
--------------------	---------------------------------------	----------------------

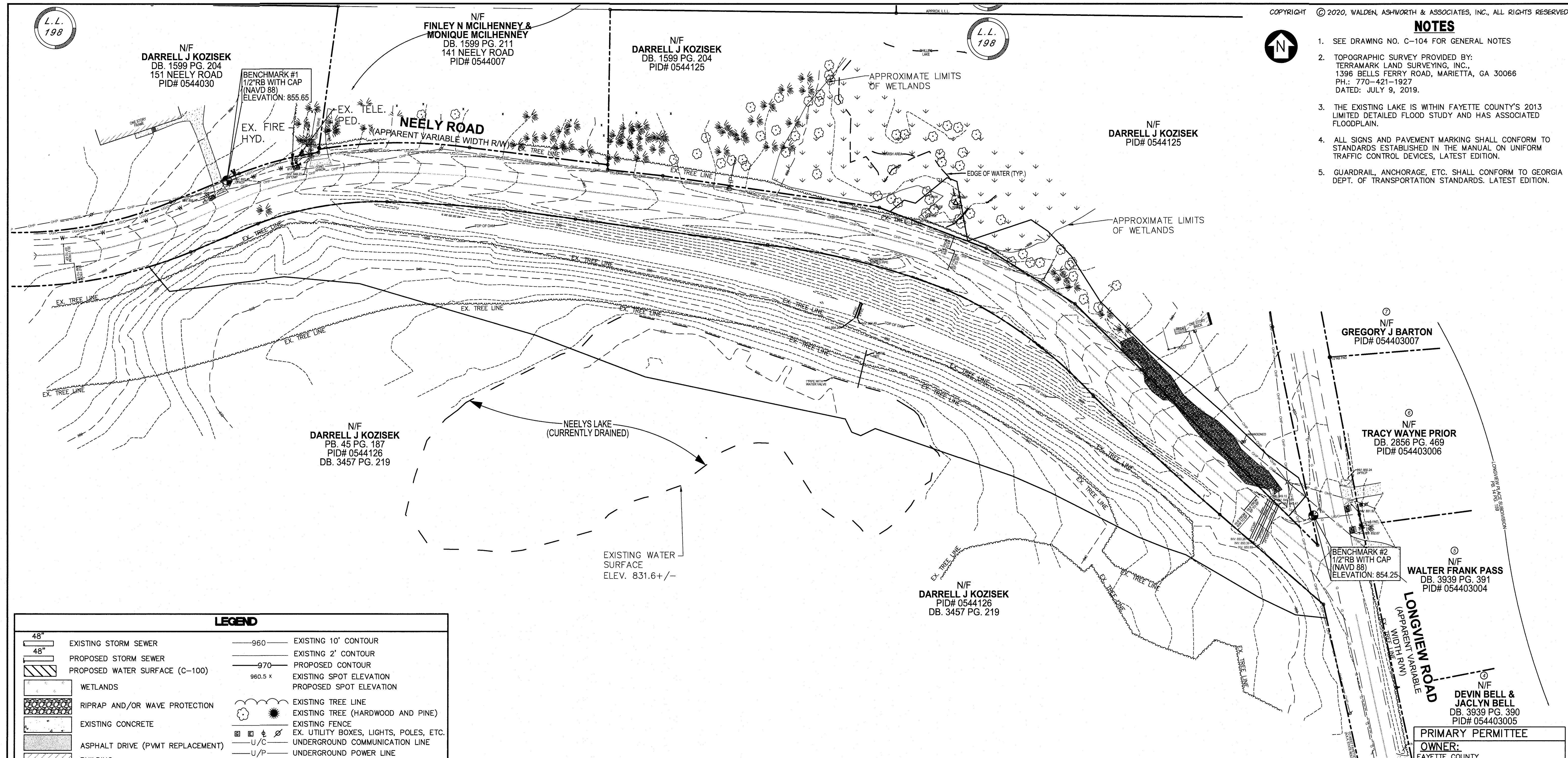
NOTES

- SEE DRAWING NO. C-104 FOR GENERAL NOTES
- TOPOGRAPHIC SURVEY PROVIDED BY:
TERRAMARK LAND SURVEYING, INC.,
1396 BELLS FERRY ROAD, MARIETTA, GA 30066
PH.: 770-421-1927
DATED: JULY 9, 2019.
- THE EXISTING LAKE IS WITHIN FAYETTE COUNTY'S 2013 LIMITED DETAILED FLOOD STUDY AND HAS ASSOCIATED FLOODPLAIN.
- ALL SIGNS AND PAVEMENT MARKING SHALL CONFORM TO STANDARDS ESTABLISHED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- GUARDRAIL, ANCHORAGE, ETC. SHALL CONFORM TO GEORGIA DEPT. OF TRANSPORTATION STANDARDS. LATEST EDITION.



L.L.
198

L.L.
198



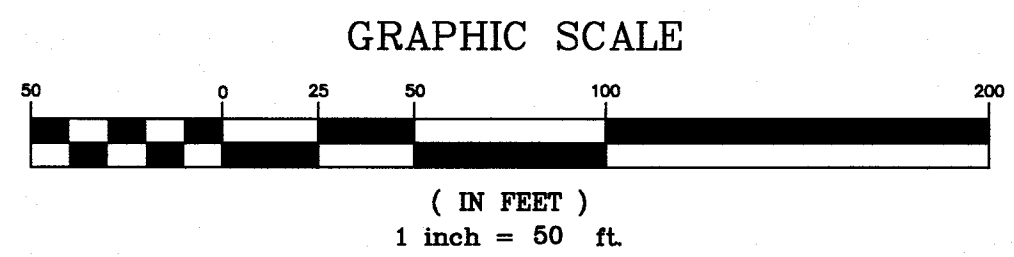
LEGEND

	EXISTING STORM SEWER		EXISTING 10' CONTOUR
	PROPOSED STORM SEWER		EXISTING 2' CONTOUR
	PROPOSED WATER SURFACE (C-100)		PROPOSED CONTOUR
	WETLANDS		EXISTING SPOT ELEVATION
	RIPRAP AND/OR WAVE PROTECTION		PROPOSED SPOT ELEVATION
	EXISTING CONCRETE		EXISTING TREE LINE
	ASPHALT DRIVE (PVMT REPLACEMENT)		EXISTING TREE (HARDWOOD AND PINE)
	BUILDING		EXISTING FENCE
	GUARDRAIL		EX. UTILITY BOXES, LIGHTS, POLES, ETC.
	RETAINING WALL		UNDERGROUND COMMUNICATION LINE
	PERMANENT EASEMENT		UNDERGROUND POWER LINE
	LIMITS OF DISTURBANCE		GAS LINE
	RIGHT OF WAY		WATER LINE
	STATE WATERS BUFFER LIMITS		WATER VALVE AND FIREHYDRANT
	NORMAL POOL (DATE OF SURVEY)		PROPOSED UNDERGROUND UTILITY LINE (WATER, POWER, GAS, ETC.)
			EXISTING SLOPE LINE
			PROPOSED SLOPE LINE

NOTE: EXISTING FEATURES, SHOWN IN THE ABOVE LEGEND OR NOT, ARE DENOTED WITH DASHED AND/OR SCREENED LINES AND PROPOSED FEATURES ARE DENOTED WITH SOLID AND/OR DARKER LINES. SOME LINES AND TEXT MAY BE THICKER, LIGHTER AND/OR DARKER ON THE FOLLOWING SHEETS, AS NECESSARY DEPENDING UPON WHAT THE SHEET'S PRIMARY PURPOSE IS.

APPROVED
STATE OF GEORGIA
DEPT. OF NATURAL RESOURCES

AUG 17 2023
Julie Spill
Environmental Protection Division
Safe Dams Program



PRIMARY PERMITTEE OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

**KOZISEK LAKE
DAM IMPROVEMENTS
EXISTING CONDITIONS PLAN**

FAYETTE COUNTY

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956 - 7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200
DRAWING NUMBER **39022- C-102**
REV. NO. **1**

SCALE: 1"=50'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707 EXP: 06/30/2024	
JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE: 12/07/23	



5/26/2023

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

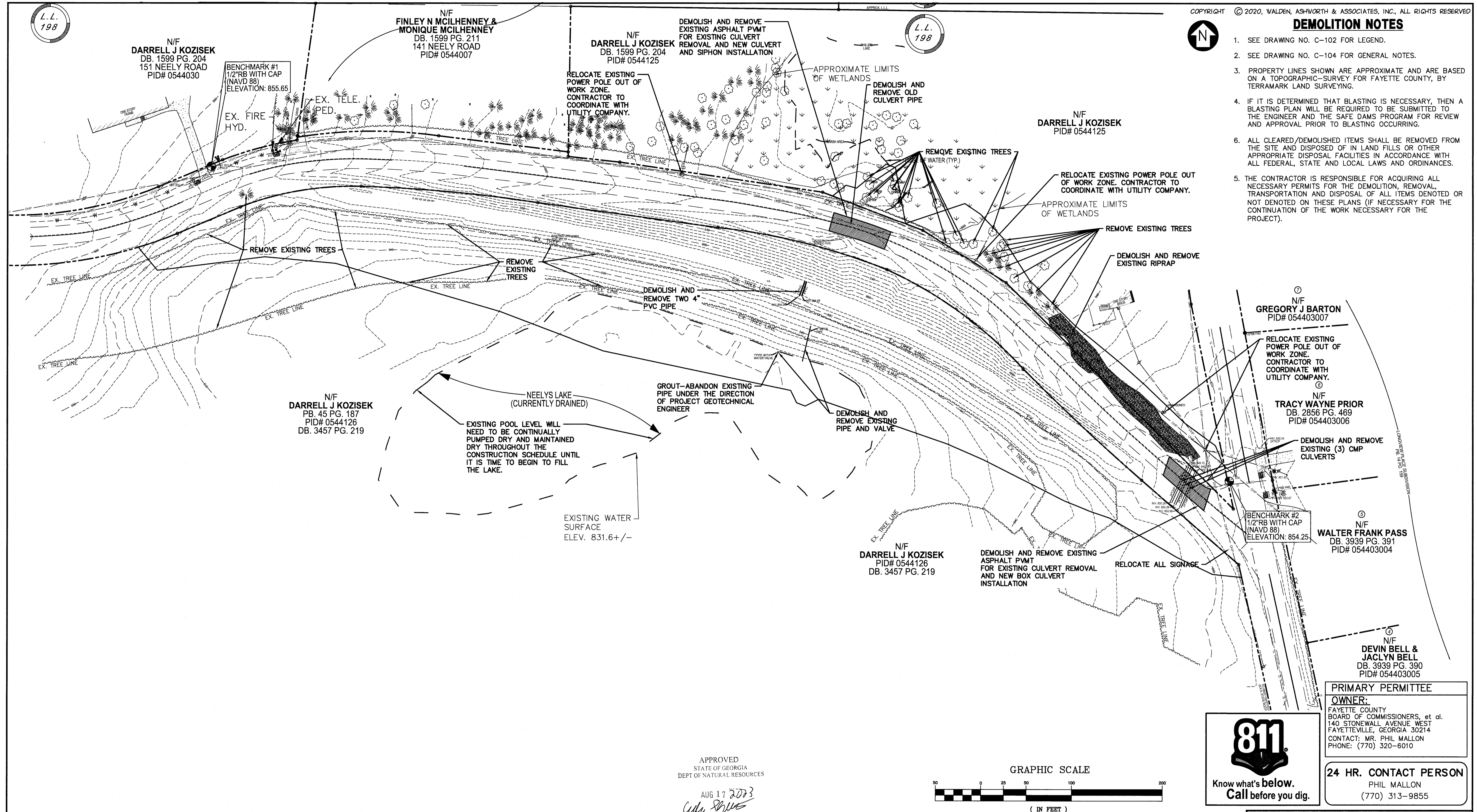
L.L. 198

L.L. 198

COPYRIGHT © 2020, WALDEN, ASHWORTH & ASSOCIATES, INC. ALL RIGHTS RESERVED

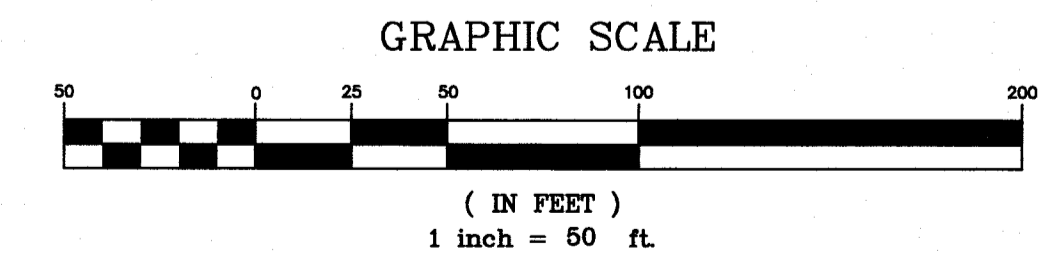
DEMOLITION NOTES

- SEE DRAWING NO. C-102 FOR LEGEND.
- SEE DRAWING NO. C-104 FOR GENERAL NOTES.
- PROPERTY LINES SHOWN ARE APPROXIMATE AND ARE BASED ON A TOPOGRAPHIC-SURVEY FOR FAYETTE COUNTY, BY TERRAMARK LAND SURVEYING.
- IF IT IS DETERMINED THAT BLASTING IS NECESSARY, THEN A BLASTING PLAN WILL BE REQUIRED TO BE SUBMITTED TO THE ENGINEER AND THE SAFE DAMS PROGRAM FOR REVIEW AND APPROVAL PRIOR TO BLASTING OCCURRING.
- ALL CLEARED/DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN LAND FILLS OR OTHER APPROPRIATE DISPOSAL FACILITIES IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES.
- THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS FOR THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL ITEMS DENOTED OR NOT DENOTED ON THESE PLANS (IF NECESSARY FOR THE CONTINUATION OF THE WORK NECESSARY FOR THE PROJECT).



APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Celia Shive
Environmental Protection Division
Safe Dams Program



PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEMAN AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

KOZISEK LAKE DAM IMPROVEMENTS CLEARING/DEMOLITION PLAN FAYETTE COUNTY

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

SCALE: 1"=50'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707 EXP: 06/30/2024	
JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE: 12/07/23	



5/26/2023

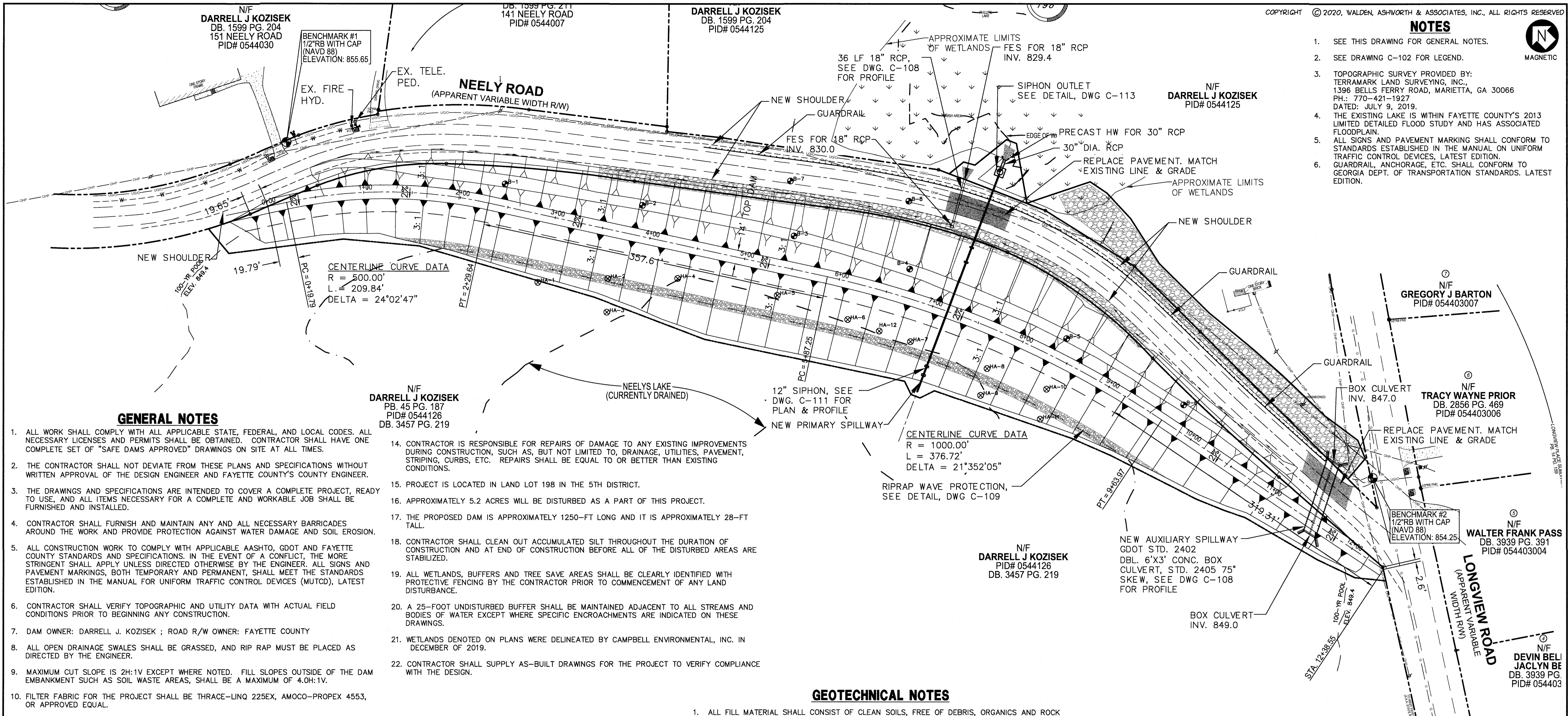
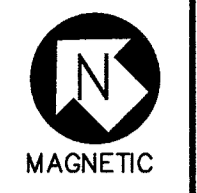
NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

JOB NO. 3902200
DRAWING NUMBER **39022- C-103**
REV. NO. **1**

NOTES

- SEE THIS DRAWING FOR GENERAL NOTES.
- SEE DRAWING C-102 FOR LEGEND.
- TOPOGRAPHIC SURVEY PROVIDED BY: TERRAMARK LAND SURVEYING, INC., 1396 BELLS FERRY ROAD, MARIETTA, GA 30066 PH.: 770-421-1927 DATED: JULY 9, 2019.
- THE EXISTING LAKE IS WITHIN FAYETTE COUNTY'S 2013 LIMITED DETAILED FLOOD STUDY AND HAS ASSOCIATED FLOODPLAIN.
- ALL SIGNS AND PAVEMENT MARKING SHALL CONFORM TO STANDARDS ESTABLISHED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- GUARDRAIL, ANCHORAGE, ETC. SHALL CONFORM TO GEORGIA DEPT. OF TRANSPORTATION STANDARDS, LATEST EDITION.



GENERAL NOTES

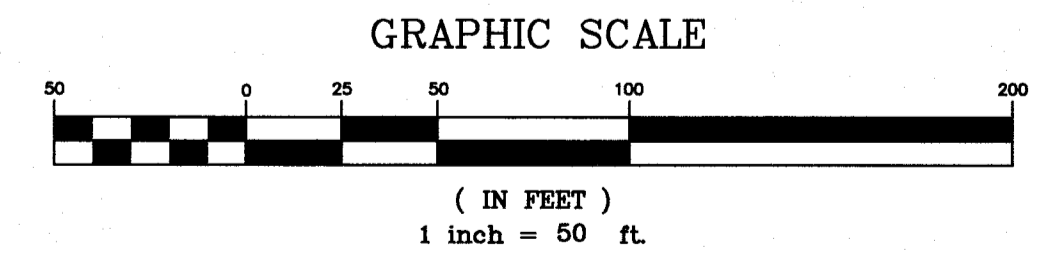
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, FEDERAL, AND LOCAL CODES. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED. CONTRACTOR SHALL HAVE ONE COMPLETE SET OF "SAFE DAMS APPROVED" DRAWINGS ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER AND FAYETTE COUNTY'S COUNTY ENGINEER.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED.
- CONTRACTOR SHALL FURNISH AND MAINTAIN ANY AND ALL NECESSARY BARRICADES AROUND THE WORK AND PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
- ALL CONSTRUCTION WORK TO COMPLY WITH APPLICABLE AASHTO, GDOT AND FAYETTE COUNTY STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT SHALL APPLY UNLESS DIRECTED OTHERWISE BY THE ENGINEER. ALL SIGNS AND PAVEMENT MARKINGS, BOTH TEMPORARY AND PERMANENT, SHALL MEET THE STANDARDS ESTABLISHED IN THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- CONTRACTOR SHALL VERIFY TOPOGRAPHIC AND UTILITY DATA WITH ACTUAL FIELD CONDITIONS PRIOR TO BEGINNING ANY CONSTRUCTION.
- DAM OWNER: DARRELL J. KOZISEK ; ROAD R/W OWNER: FAYETTE COUNTY
- ALL OPEN DRAINAGE SWALES SHALL BE GRASSED, AND RIP RAP MUST BE PLACED AS DIRECTED BY THE ENGINEER.
- MAXIMUM CUT SLOPE IS 2H:1V EXCEPT WHERE NOTED. FILL SLOPES OUTSIDE OF THE DAM EMBANKMENT SUCH AS SOIL WASTE AREAS, SHALL BE A MAXIMUM OF 4.0H:1V.
- FILTER FABRIC FOR THE PROJECT SHALL BE THRACE-LINQ 225EX, AMOCO-PROPEX 4553, OR APPROVED EQUAL.
- TOPOGRAPHIC INFORMATION PROVIDED BY TERRAMARK LAND SURVEYING, INC. DATED 7/9/19.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES AND PIPES PRIOR TO CONSTRUCTION.

- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- PROJECT IS LOCATED IN LAND LOT 198 IN THE 5TH DISTRICT.
- APPROXIMATELY 5.2 ACRES WILL BE DISTURBED AS A PART OF THIS PROJECT.
- THE PROPOSED DAM IS APPROXIMATELY 1250-FT LONG AND IT IS APPROXIMATELY 28-FT TALL.
- CONTRACTOR SHALL CLEAN OUT ACCUMULATED SILT THROUGHOUT THE DURATION OF CONSTRUCTION AND AT END OF CONSTRUCTION BEFORE ALL OF THE DISTURBED AREAS ARE STABILIZED.
- ALL WETLANDS, BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH PROTECTIVE FENCING BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- A 25-FOOT UNDISTURBED BUFFER SHALL BE MAINTAINED ADJACENT TO ALL STREAMS AND BODIES OF WATER EXCEPT WHERE SPECIFIC ENCROACHMENTS ARE INDICATED ON THESE DRAWINGS.
- WETLANDS DENOTED ON PLANS WERE DELINEATED BY CAMPBELL ENVIRONMENTAL, INC. IN DECEMBER OF 2019.
- CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS FOR THE PROJECT TO VERIFY COMPLIANCE WITH THE DESIGN.

GEOTECHNICAL NOTES

- ALL FILL MATERIAL SHALL CONSIST OF CLEAN SOILS, FREE OF DEBRIS, ORGANICS AND ROCK PARTICLES LARGER THAN THREE INCHES IN DIAMETER. FILL SHALL BE PLACED IN MAXIMUM SIX TO EIGHT INCH LIFTS (LOOSE MEASURE). SELECT FILL TO HAVE USCS CLASSIFICATION CL, ML & SC; WITH MINIMUM 30% PASSING #200 SIEVE.
- ALL FILL MATERIAL FOR THE DAM EMBANKMENT SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND SHALL BE COMPACTED TO AT LEAST 95% OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY AT A MOISTURE CONTENT RANGING AT OR ABOVE SOIL'S OPTIMUM MOISTURE.
- IN AREAS TO RECEIVE FILL, STRIPPING IN THE FOOTPRINT OF DAM WILL BE INCLUDED IN THE UNDERCUT. UNDERCUT QUANTITIES SHALL BE MEASURED FROM THE EXISTING GROUND SURFACE AFTER CLEARING AND GRUBBING HAS BEEN COMPLETED.

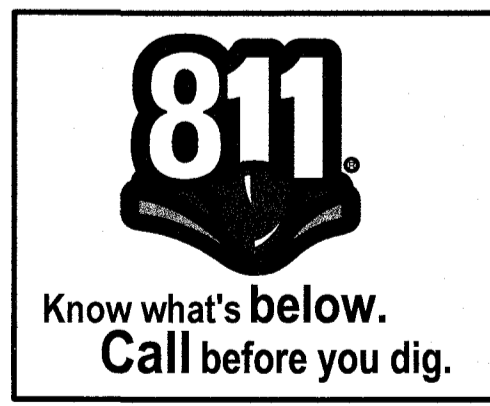
APPROVED
STATE OF GEORGIA
DEPT. OF NATURAL RESOURCES
AUG 17 2023
C. R. RAPPLEAN
Environmental Protection Division
Safe Dams Program



PRIMARY PERMITTEE

OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855



RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

**KOZISEK LAKE
DAM IMPROVEMENTS
LAYOUT PLAN**

FAYETTE COUNTY



WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

SCALE: 1"=50'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR	LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE:	12/07/23



5/26/2023

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

JOB NO. 3902200
DRAWING NUMBER **39022- C-104**
REV. NO. **1**

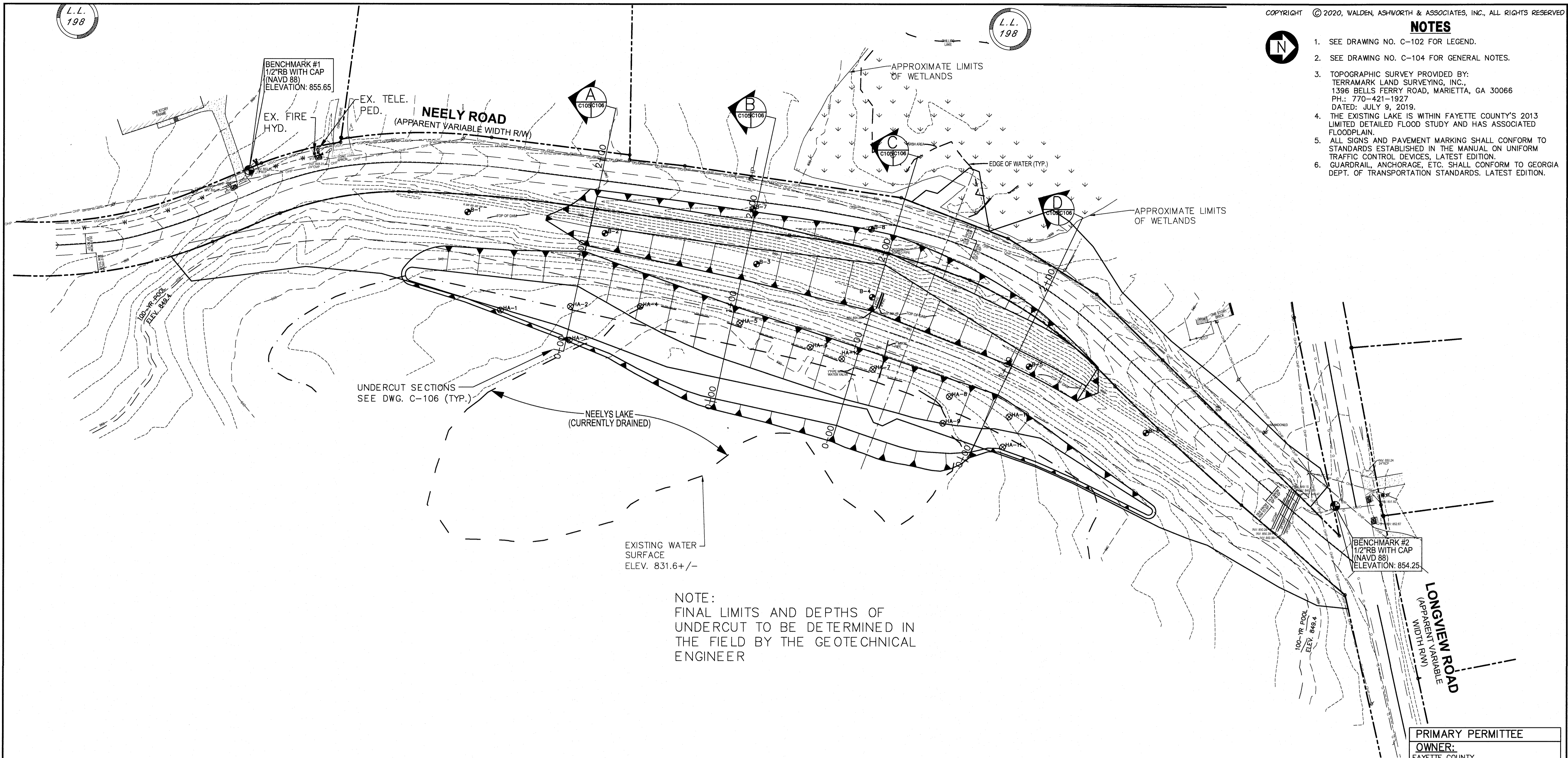
L.L.
198

L.L.
198

COPYRIGHT © 2020, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

NOTES

1. SEE DRAWING NO. C-102 FOR LEGEND.
2. SEE DRAWING NO. C-104 FOR GENERAL NOTES.
3. TOPOGRAPHIC SURVEY PROVIDED BY: TERRAMARK LAND SURVEYING, INC., 1396 BELLS FERRY ROAD, MARIETTA, GA 30066 PH.: 770-421-1927 DATED: JULY 9, 2019.
4. THE EXISTING LAKE IS WITHIN FAYETTE COUNTY'S 2013 LIMITED DETAILED FLOOD STUDY AND HAS ASSOCIATED FLOODPLAIN.
5. ALL SIGNS AND PAVEMENT MARKING SHALL CONFORM TO STANDARDS ESTABLISHED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
6. GUARDRAIL, ANCHORAGE, ETC. SHALL CONFORM TO GEORGIA DEPT. OF TRANSPORTATION STANDARDS, LATEST EDITION.



UNDERCUT SECTIONS
SEE DWG. C-106 (TYP.)

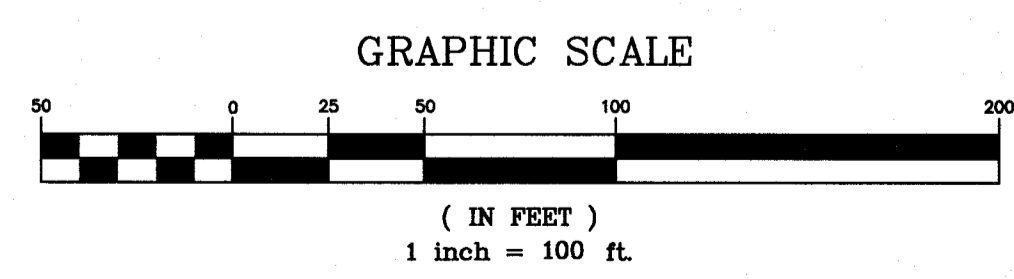
NEELYS LAKE
(CURRENTLY DRAINED)

EXISTING WATER
SURFACE
ELEV. 831.6+/-

NOTE:
FINAL LIMITS AND DEPTHS OF
UNDERCUT TO BE DETERMINED IN
THE FIELD BY THE GEOTECHNICAL
ENGINEER

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Calvin Shotts
Environmental Protection Division
Safe Dams Program



PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

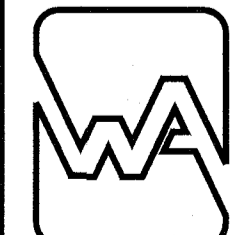
24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

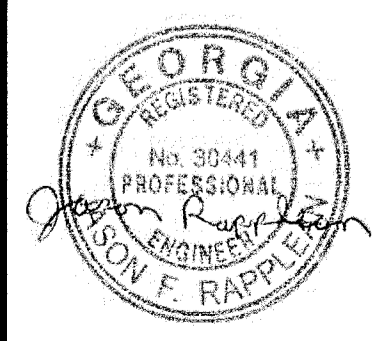
**KOZISEK LAKE
DAM IMPROVEMENTS
UNDERCUT PLAN**

FAYETTE COUNTY



WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 856-7897
COA: PEF000707 EXP: 06/30/2020

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



SCALE: 1" = 100'
DATE: 12/20
DESIGN BY: JMH/JCL
DRAWN BY: JMH/JCL
CHECKED BY: MLW/JR
COA: PEF000707 EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR
LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE: 12/07/23

JOB NO.
3902200

DRAWING NUMBER
39022- C-105

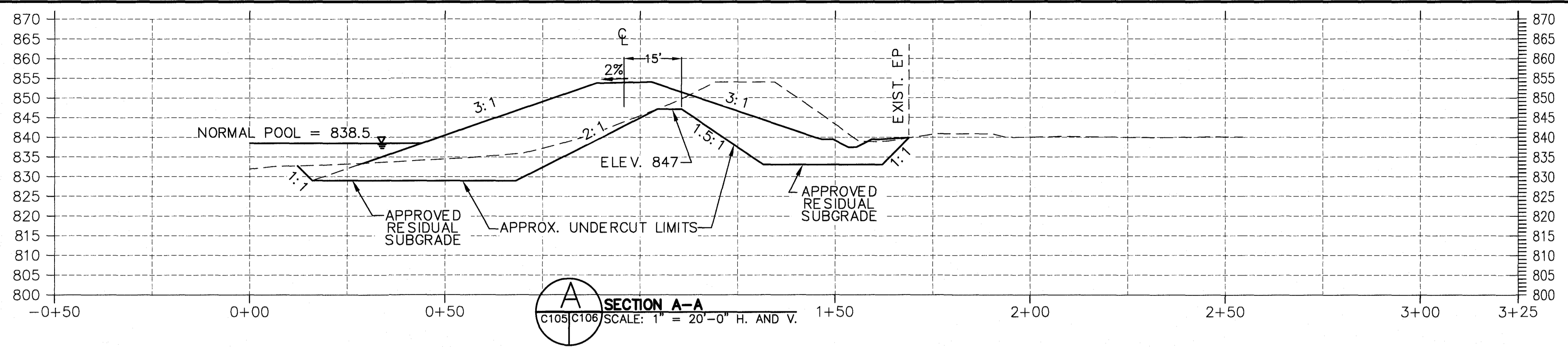
REV. NO.
1

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

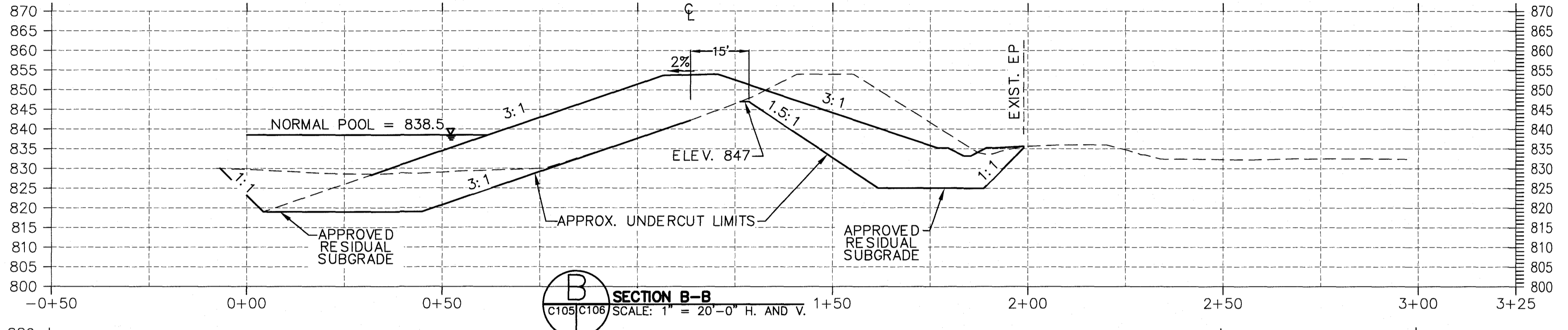
5/26/2023

NOTES

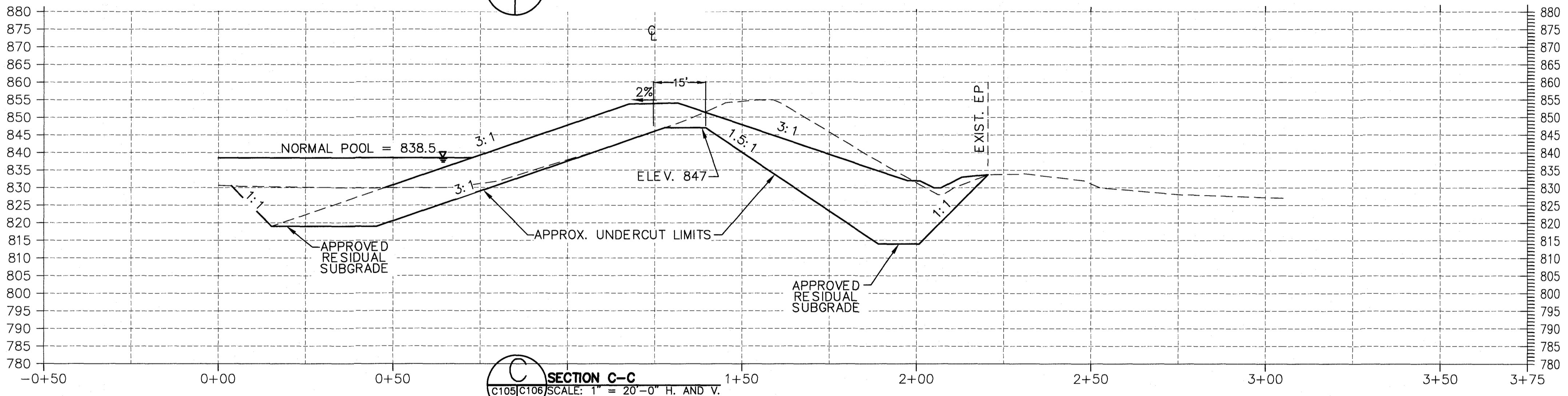
1. SEE DRAWING NO. C-102 FOR LEGEND.
2. SEE DRAWING NO. C-104 FOR GENERAL NOTES.
3. SEE DRAWING NO. C-105 FOR SECTION LOCATIONS.
4. BLASTING WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. THE GEOTECHNICAL ENGINEER WILL EVALUATE ALL EMBANKMENT CUT TO DETERMINE IF IT IS SUITABLE TO BE USED FOR BACKFILL MATERIAL. FOR BID PURPOSES, ASSUME ALL EXCAVATION WILL BE HAULED OFF AND WASTED, AND SOIL HAULED IN FROM AN APPROVED AREA TO BE USED AS BACKFILL AND/OR FILL MATERIAL. A CREDIT SHALL BE APPLIED (FROM THE CONTRACTOR) FOR THE USE OF EXISTING EMBANKMENT SOILS.



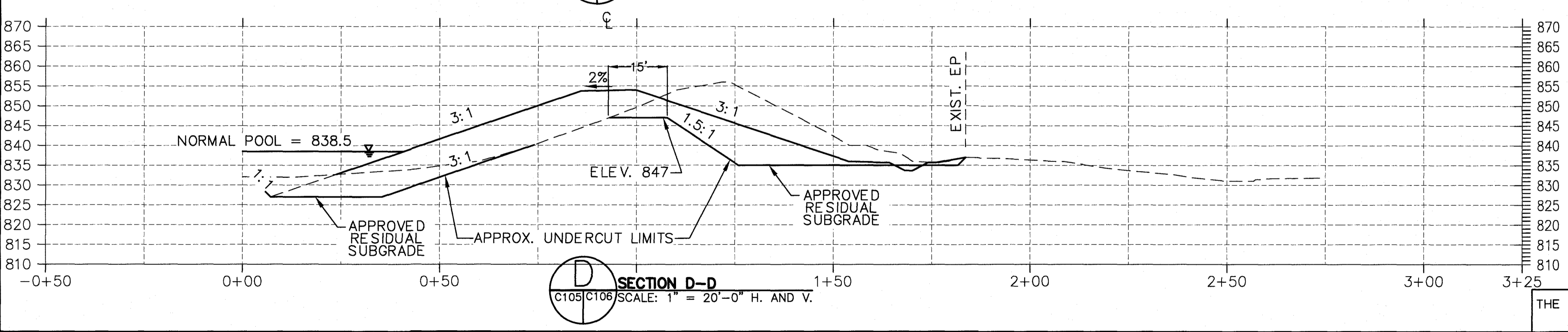
SECTION A-A
SCALE: 1" = 20'-0" H. AND V.



SECTION B-B
SCALE: 1" = 20'-0" H. AND V.



SECTION C-C
SCALE: 1" = 20'-0" H. AND V.

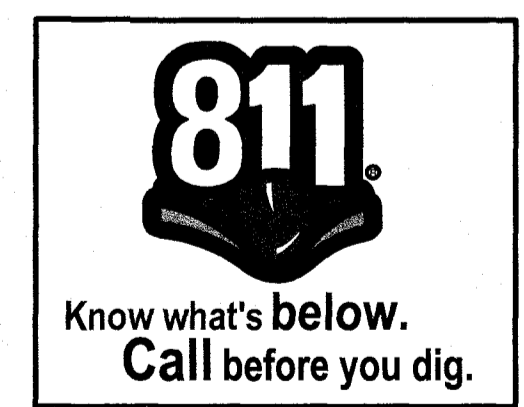


SECTION D-D
SCALE: 1" = 20'-0" H. AND V.

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Walden Ashworth
Environmental Protection Division
Safe Dams Program

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010



24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

APPROVED 07/13/2023 FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT									
NO.	REVISIONS	MADE	CKD.	DATE	NO.	REVISIONS	MADE	CKD.	DATE



5/26/2023

SCALE: AS SHOWN	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE: 12/07/23	

**KOZISEK LAKE
DAM IMPROVEMENTS
UNDERCUT SECTIONS**
FAYETTE COUNTY



WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200	DRAWING NUMBER 39022- C-106	REV. NO. 0
--------------------	---------------------------------------	----------------------

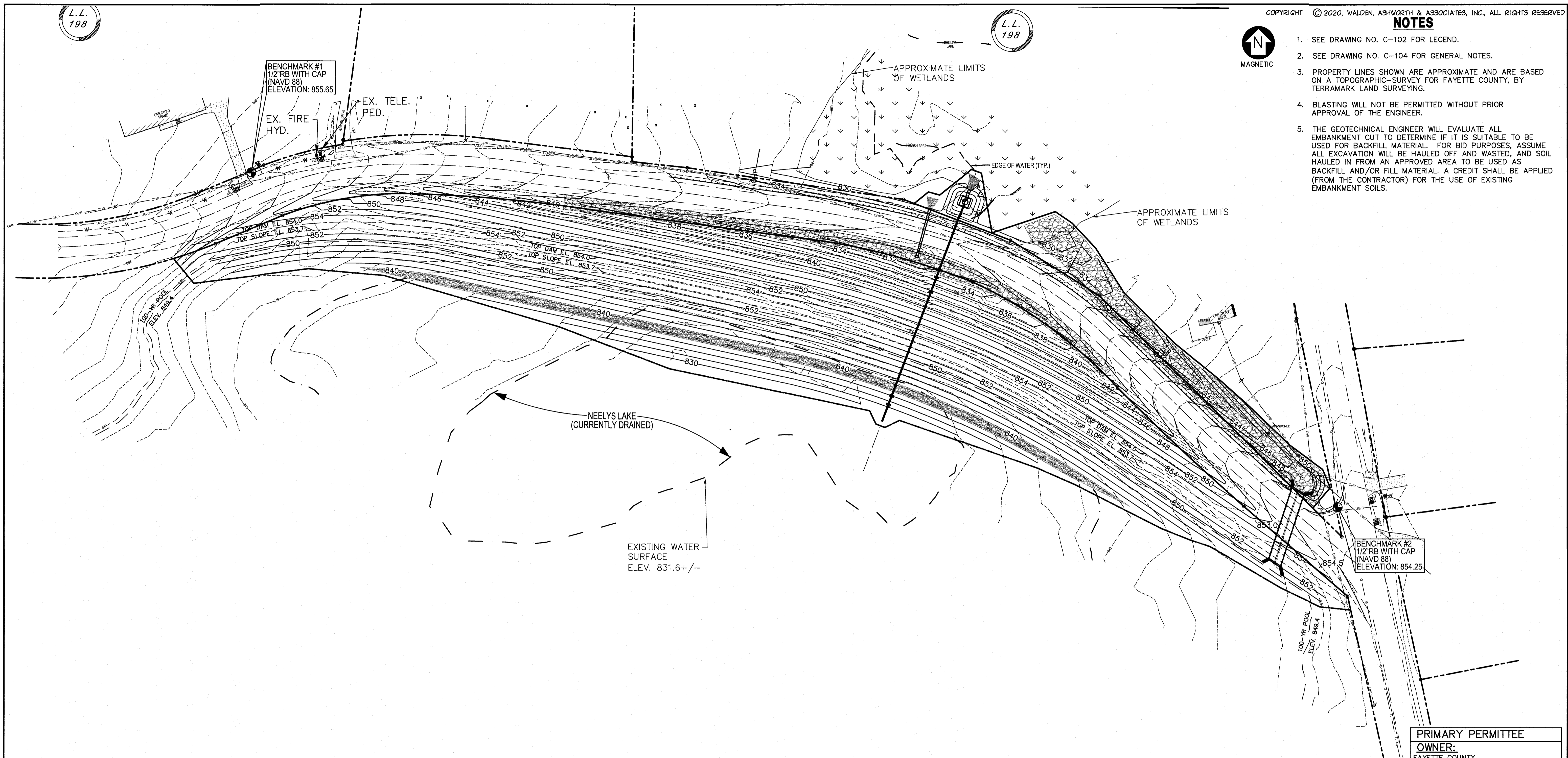
L.L.
198

L.L.
198

COPYRIGHT © 2020, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

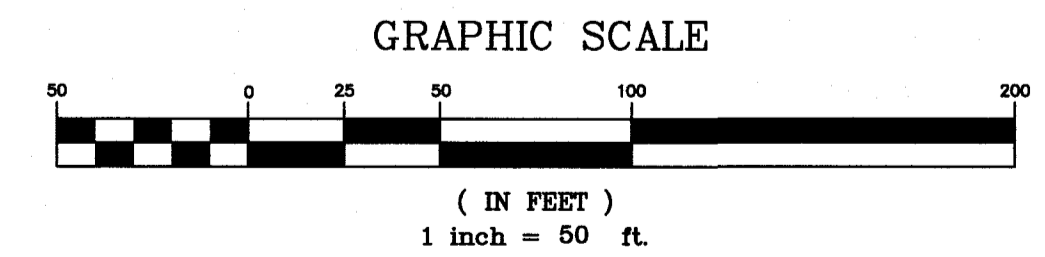
NOTES

1. SEE DRAWING NO. C-102 FOR LEGEND.
2. SEE DRAWING NO. C-104 FOR GENERAL NOTES.
3. PROPERTY LINES SHOWN ARE APPROXIMATE AND ARE BASED ON A TOPOGRAPHIC SURVEY FOR FAYETTE COUNTY, BY TERRAMARK LAND SURVEYING.
4. BLASTING WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. THE GEOTECHNICAL ENGINEER WILL EVALUATE ALL EMBANKMENT CUT TO DETERMINE IF IT IS SUITABLE TO BE USED FOR BACKFILL MATERIAL. FOR BID PURPOSES, ASSUME ALL EXCAVATION WILL BE HAULED OFF AND WASTED, AND SOIL HAULED IN FROM AN APPROVED AREA TO BE USED AS BACKFILL AND/OR FILL MATERIAL. A CREDIT SHALL BE APPLIED (FROM THE CONTRACTOR) FOR THE USE OF EXISTING EMBANKMENT SOILS.



APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Will Shelt
Environmental Protection Division
Safe Dams Program



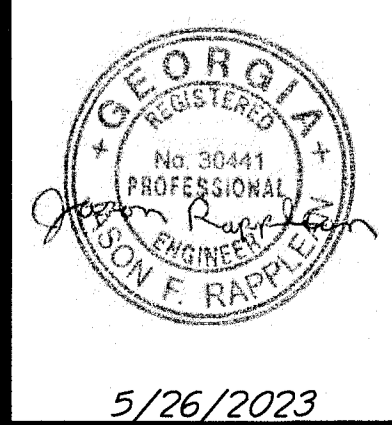
PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



SCALE: 1"=50' DATE

DESIGN BY: JMH/JCL 12/20

DRAWN BY: JMH/JCL 12/20

CHECKED BY: MLW/JR 12/20

CDA: PEF000707 EXP: 06/30/2024

JASON RAPPLEAN, PE, EOR
LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE: 12/07/23

**KOZISEK LAKE
DAM IMPROVEMENTS
GRADING PLAN
FAYETTE COUNTY**

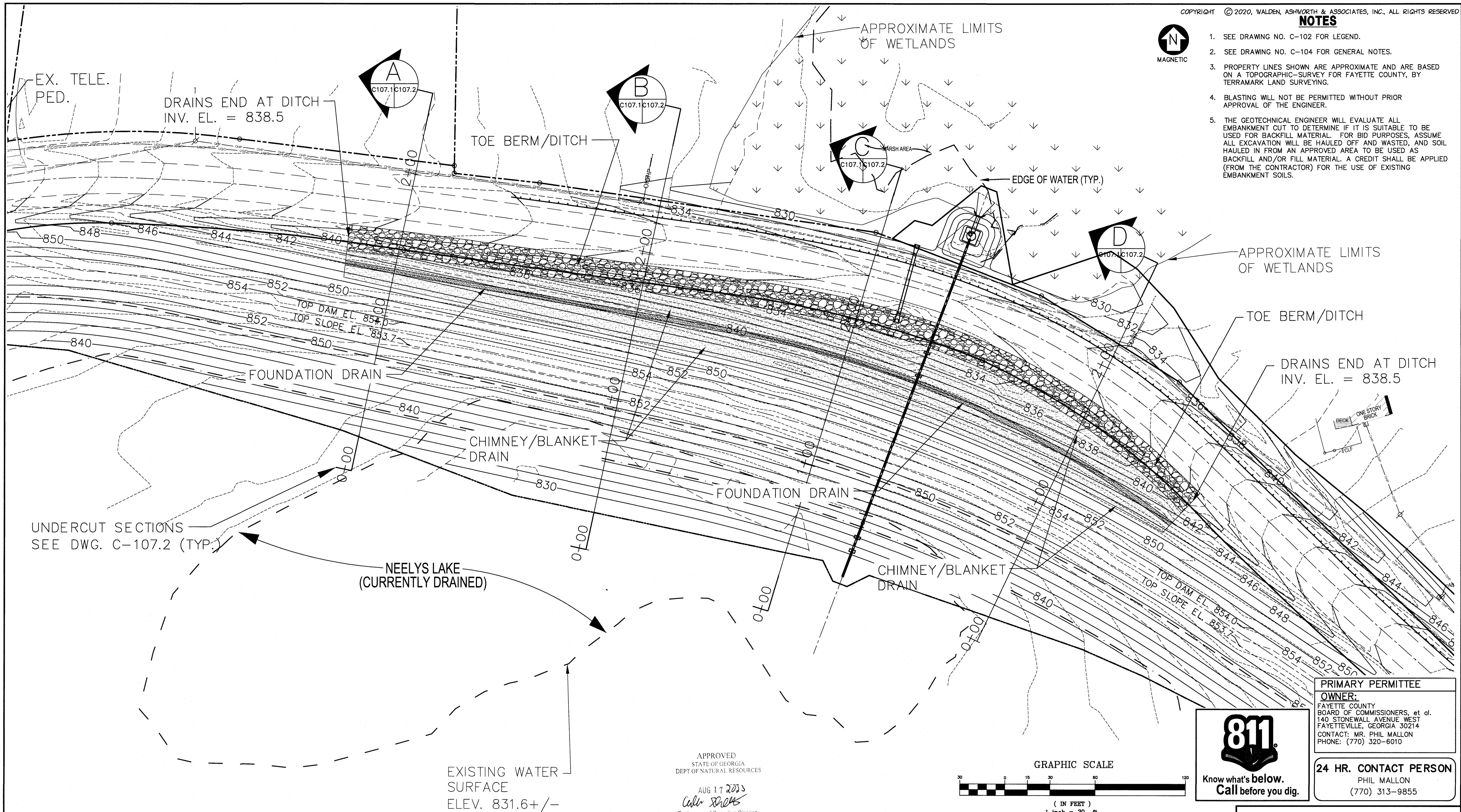
WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956 - 7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200 DRAWING NUMBER **39022- C-107** REV. NO. **0**

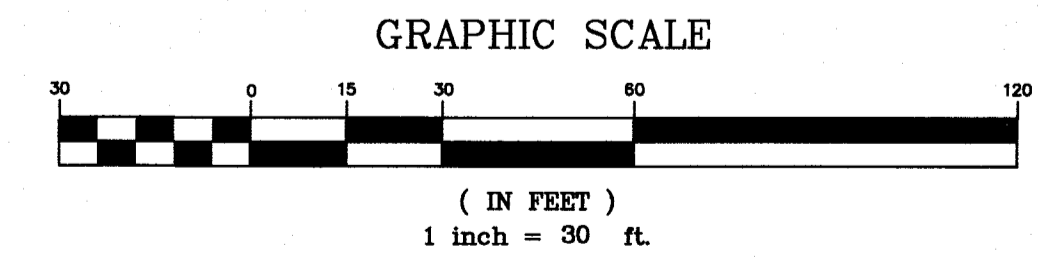
APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

NOTES

1. SEE DRAWING NO. C-102 FOR LEGEND.
2. SEE DRAWING NO. C-104 FOR GENERAL NOTES.
3. PROPERTY LINES SHOWN ARE APPROXIMATE AND ARE BASED ON A TOPOGRAPHIC SURVEY FOR FAYETTE COUNTY, BY TERRAMARK LAND SURVEYING.
4. BLASTING WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. THE GEOTECHNICAL ENGINEER WILL EVALUATE ALL EMBANKMENT CUT TO DETERMINE IF IT IS SUITABLE TO BE USED FOR BACKFILL MATERIAL. FOR BID PURPOSES, ASSUME ALL EXCAVATION WILL BE HAULED OFF AND WASTED, AND SOIL HAULED IN FROM AN APPROVED AREA TO BE USED AS BACKFILL AND/OR FILL MATERIAL. A CREDIT SHALL BE APPLIED (FROM THE CONTRACTOR) FOR THE USE OF EXISTING EMBANKMENT SOILS.



APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES
AUG 17 2023
Calvin Rapplean
Environmental Protection Division
Safe Dams Program



811
Know what's below.
Call before you dig.

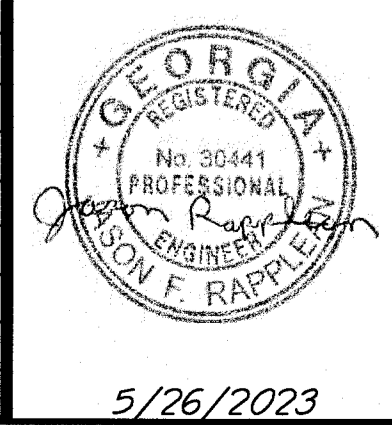
PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

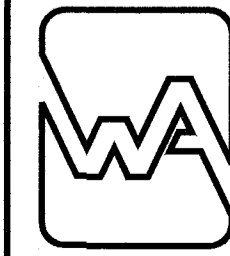
THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



SCALE: 1"=30'
DESIGN BY: JMH/JCL 12/20
DRAWN BY: JMH/JCL 12/20
CHECKED BY: MLW/JR 12/20
COA: PEF000707 EXP: 06/30/2024
JASON RAPPLEAN, P.E. ED
LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE: 12/07/23

**KOZISEK LAKE
DAM IMPROVEMENTS
DRAIN PLAN
FAYETTE COUNTY**



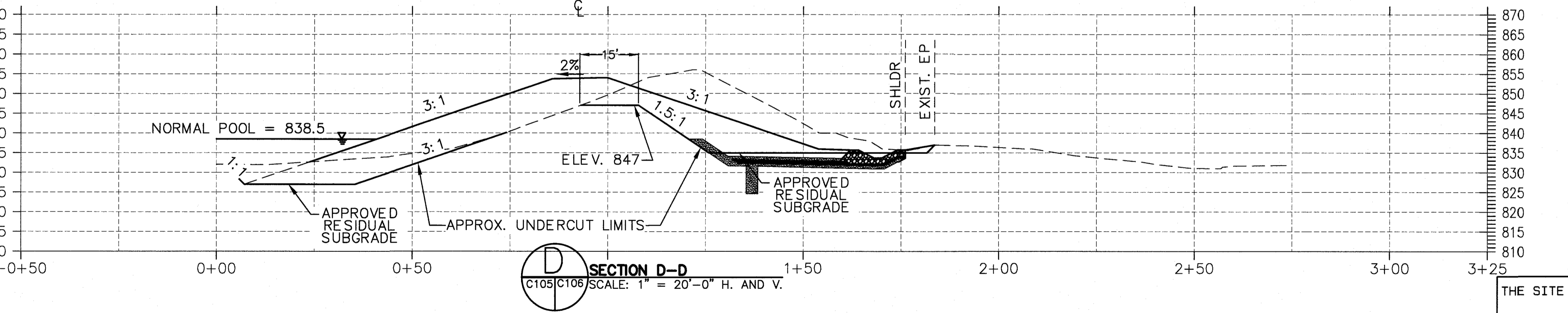
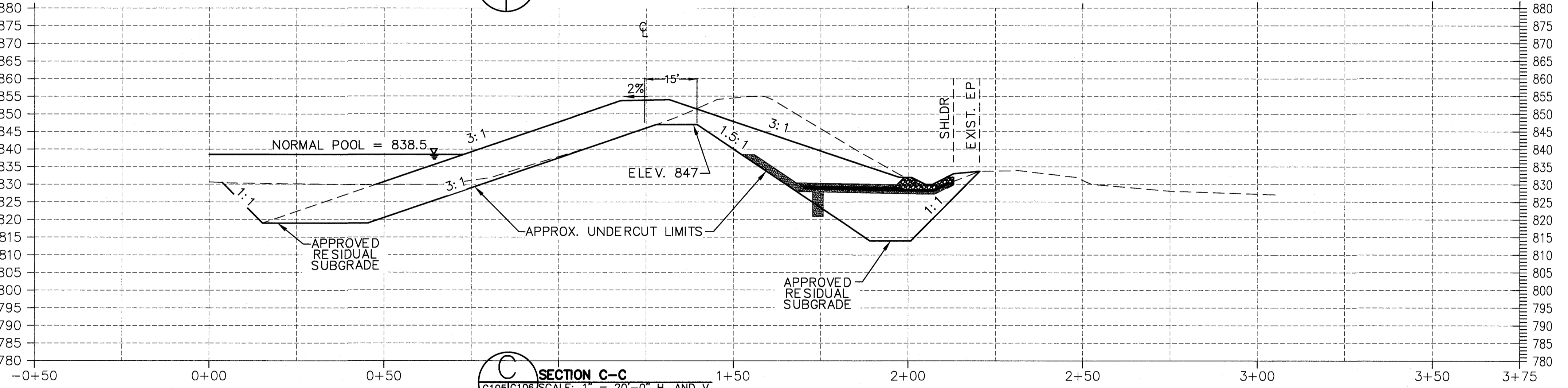
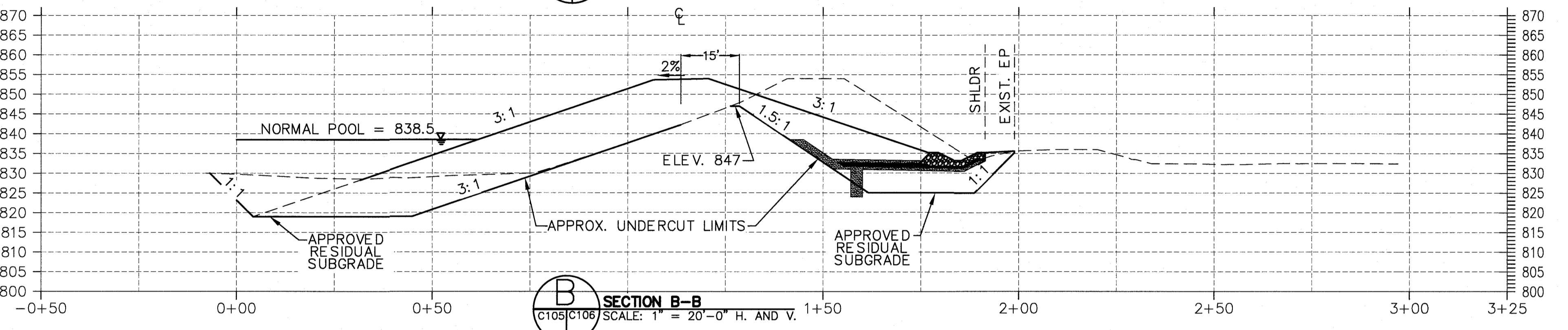
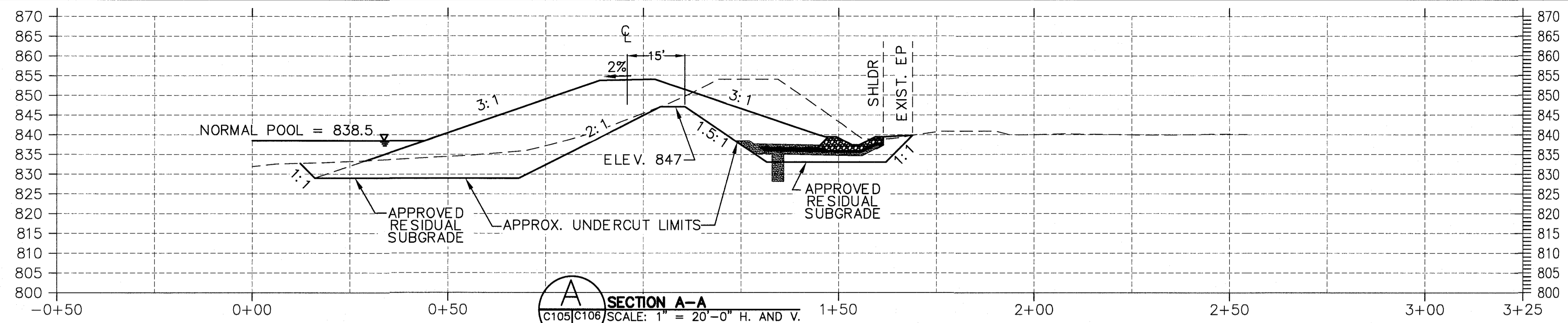
WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200
DRAWING NUMBER **39022-C-107.1**
REV. NO. **0**

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

NOTES

- SEE DRAWING NO. C-102 FOR LEGEND.
- SEE DRAWING NO. C-104 FOR GENERAL NOTES.
- SEE DRAWING NO. C-105 FOR SECTION LOCATIONS.
- BLASTING WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- THE GEOTECHNICAL ENGINEER WILL EVALUATE ALL EMBANKMENT CUT TO DETERMINE IF IT IS SUITABLE TO BE USED FOR BACKFILL MATERIAL. FOR BID PURPOSES, ASSUME ALL EXCAVATION WILL BE HAULED OFF AND WASTED, AND SOIL HAULED IN FROM AN APPROVED AREA TO BE USED AS BACKFILL AND/OR FILL MATERIAL. A CREDIT SHALL BE APPLIED (FROM THE CONTRACTOR) FOR THE USE OF EXISTING EMBANKMENT SOILS.



APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Calli Spalte
Environmental Protection Division
Safe Dams Program

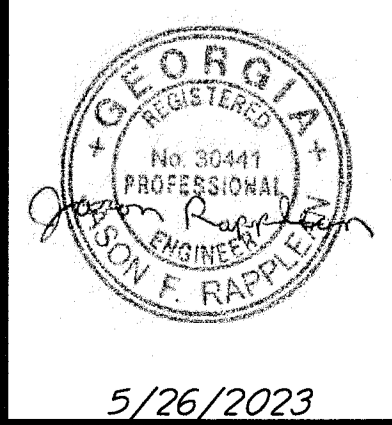
PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



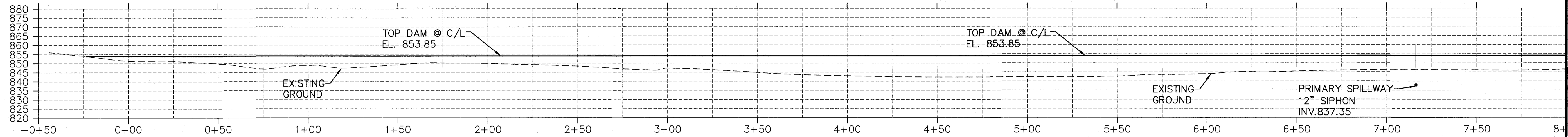
SCALE: AS SHOWN	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707 EXP: 06/30/2024	
JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE: 12/07/23	

**KOZISEK LAKE
DAM IMPROVEMENTS
DRAIN SECTIONS
FAYETTE COUNTY**



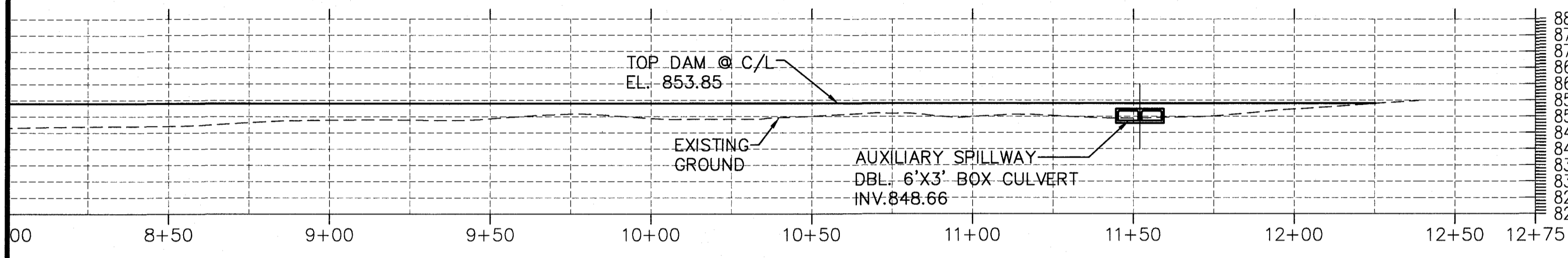
WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200	DRAWING NUMBER 39022-C-107.2	REV. NO. 0
--------------------	--	----------------------

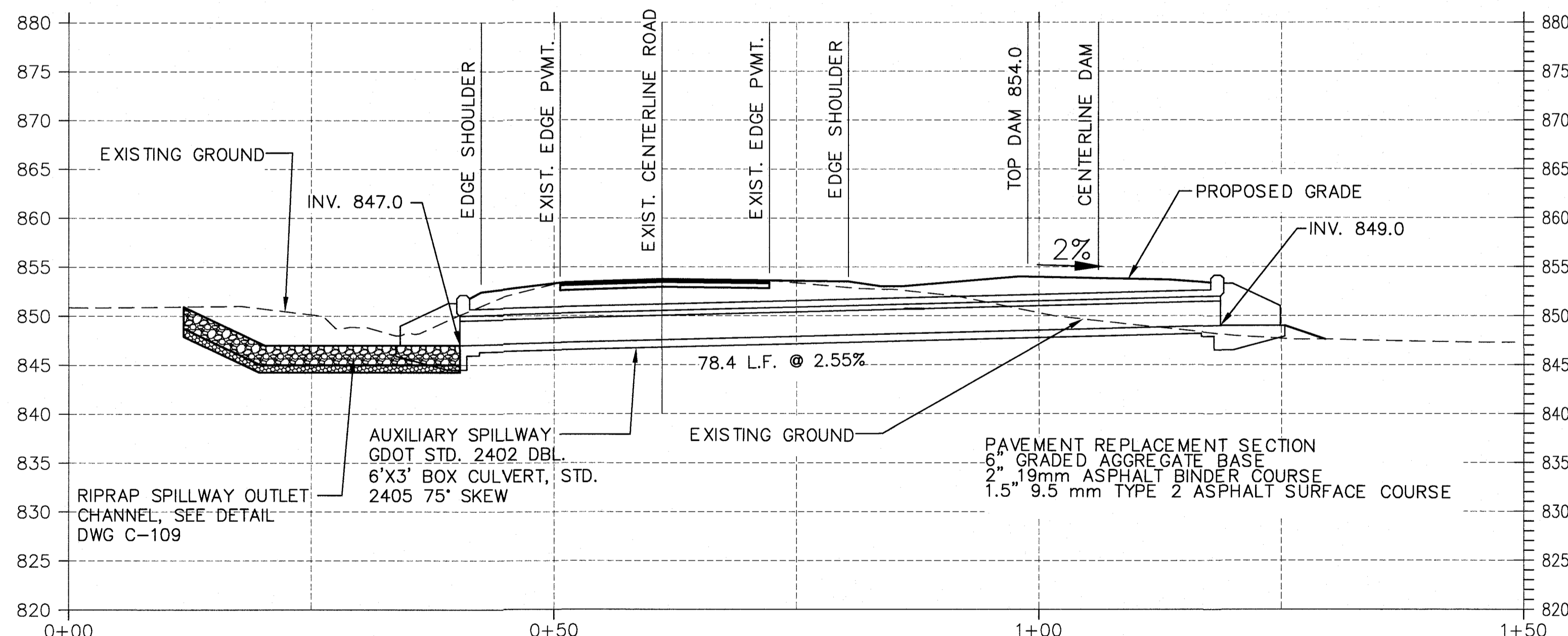


MATCH LINE SEE BELOW FOR CONTINUATION

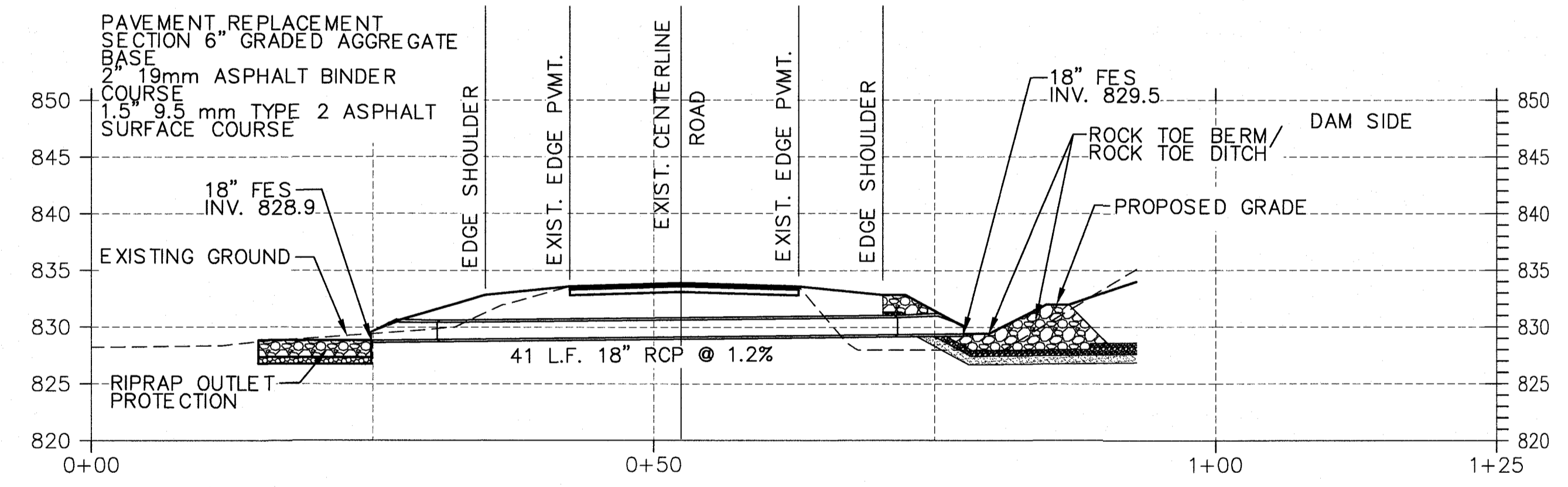
MATCH LINE SEE ABOVE FOR CONTINUATION



CENTERLINE DAM PROFILE
SCALE: 1" = 20' HORZ. & VERT. LOOKING DOWNSTREAM



AUXILIARY SPILLWAY PROFILE
SCALE: 1" = 10' HORZ. & VERT.



18" RCP CULVERT PROFILE
SCALE: 1" = 10' HORZ. & VERT.

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010



24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Walden Ashworth
Environmental Protection Division
Safe Dams Program

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

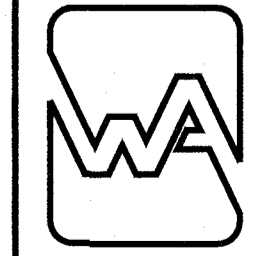
RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



SCALE: AS SHOWN DATE
DESIGN BY: JMH/JCL 12/20
DRAWN BY: JMH/JCL 12/20
CHECKED BY: MLW/JR 12/20
COA: PEF000707 EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR
LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE: 12/07/23

**KOZISEK LAKE
DAM IMPROVEMENTS
PROFILES
FAYETTE COUNTY**

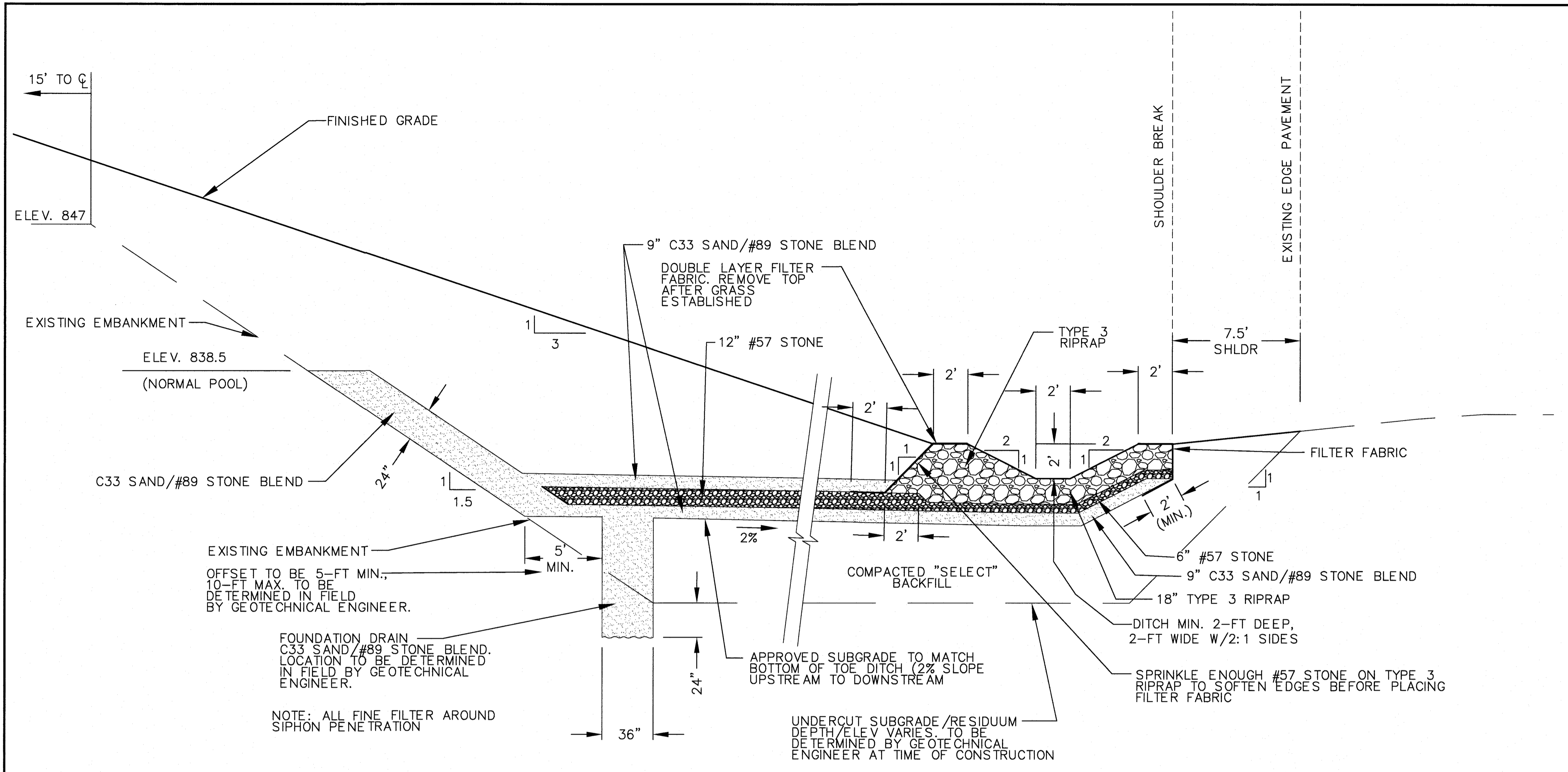


WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956 - 7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200
DRAWING NUMBER **39022- C-108**
REV. NO. **0**

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

5/26/2023

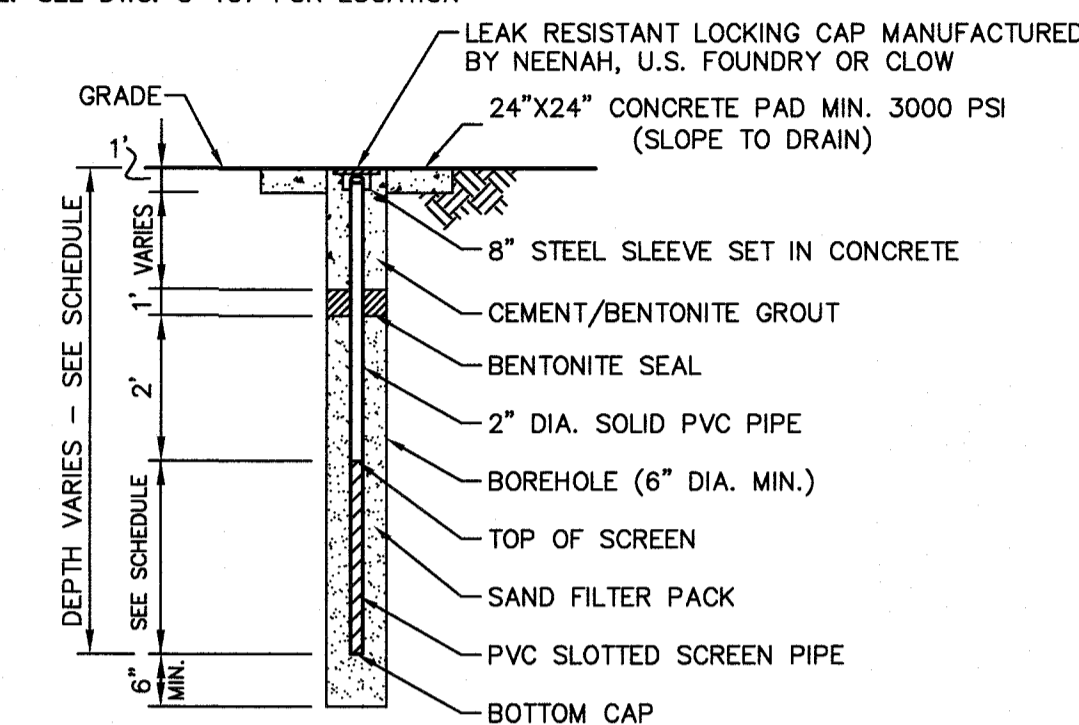


CHIMNEY, FOUNDATION, BLANKET AND TOE BERM/DITCH DRAINS

SCALE: 1"=4'

OBSERVATION WELL SCHEDULE					
DESIGNATION	COORDINATES		APPROXIMATE SURFACE EL.	DEPTH (FEET)	HEIGHT OF SCREEN (FT)
	NORTHING	EASTING			
W-1	270907.0497	2208634.0667	853.8	30	20
W-2	270992.1035	2208647.2277	834.0	20	10
W-3	270868.1705	2208778.4978	853.8	30	20
W-4	270964.3488	2208795.2789	832.0	20	10
W-5	270835.0170	2208868.9397	853.8	30	20
W-6	270906.9360	2208929.2745	834.0	20	10

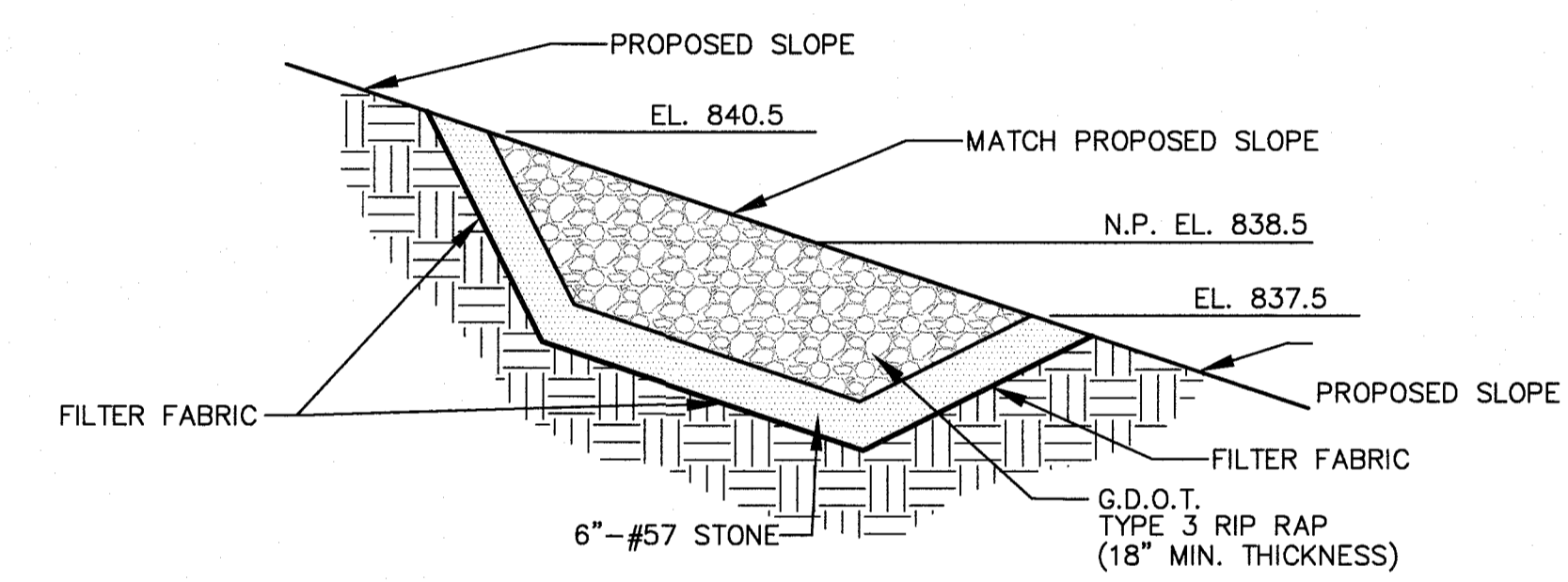
NOTE: SEE DWG. C-107 FOR LOCATION



UPSTREAM WELLS +5-FT FROM CENTERLINE DOWNSTREAM WELLS IN ROAD SHOULDER. ALL WELLS TO HAVE DESIGNATION, I.E. W-2, ETCHED OR STAMPED INTO CAP OR CONCRETE PAD.

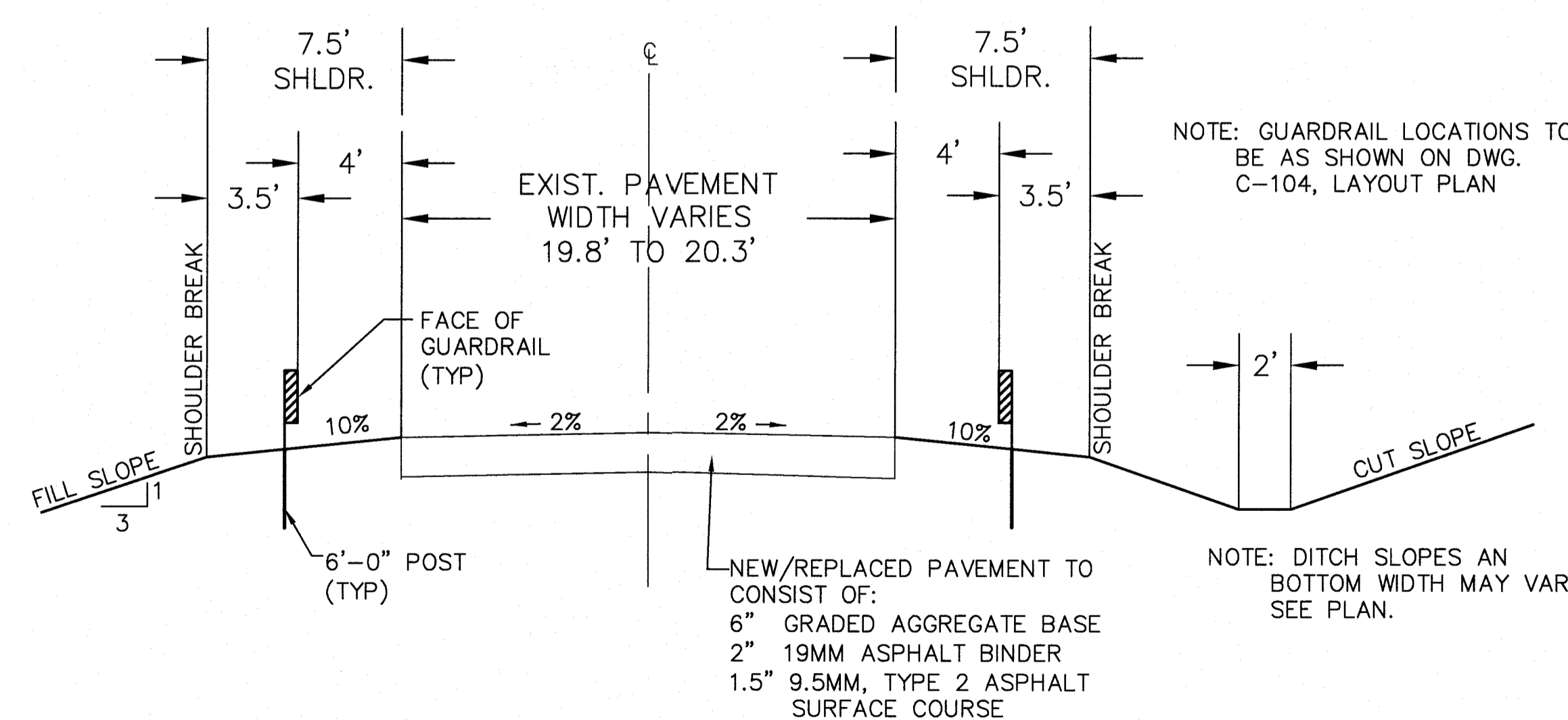
OBSERVATION WELL DETAIL

SCALE: N.T.S.



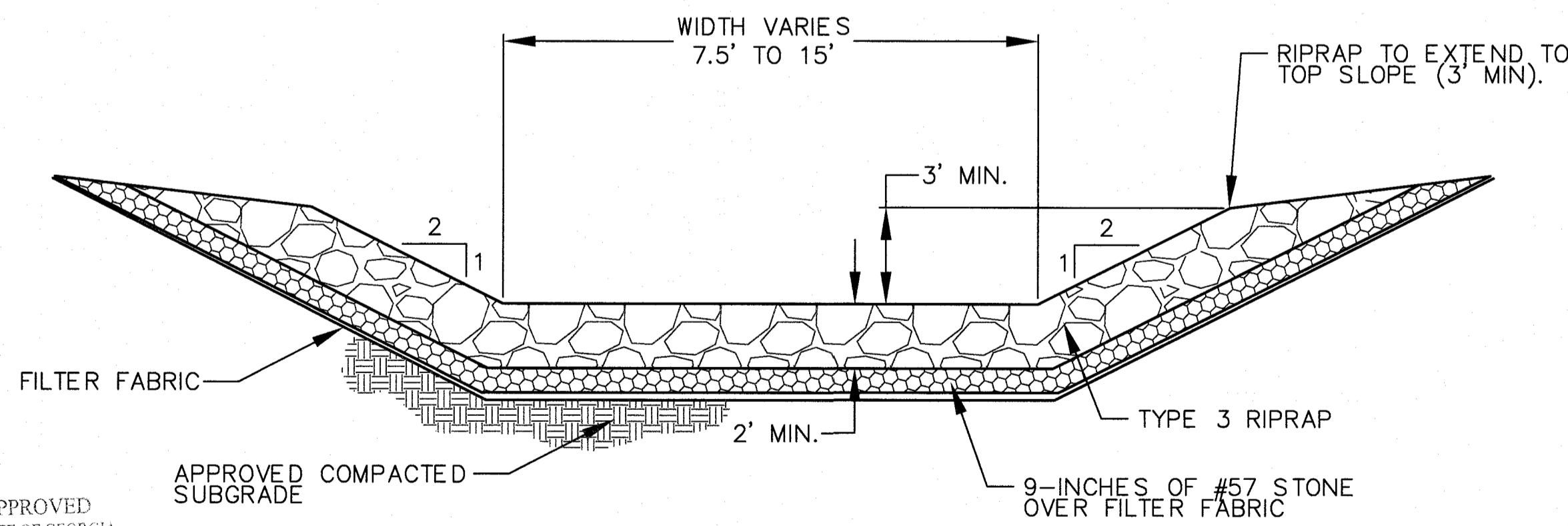
RIP RAP WAVE PROTECTION DETAIL

SCALE: 1/2" = 1'



TYPICAL ROADWAY SECTION

SCALE: N.T.S.



AUXILIARY SPILLWAY (BOX CULVERT) OUTLET CHANNEL RIPRAP

SCALE: N.T.S.

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES
AUG 17 2023
Cull Shute
Environmental Protection Division
Safe Dams Program

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

811
Know what's below.
Call before you dig.

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

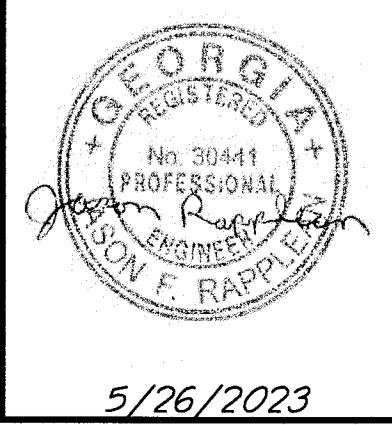
RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

**KOZISEK LAKE
DAM IMPROVEMENTS
MISCELLANEOUS DETAILS
FAYETTE COUNTY**

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE

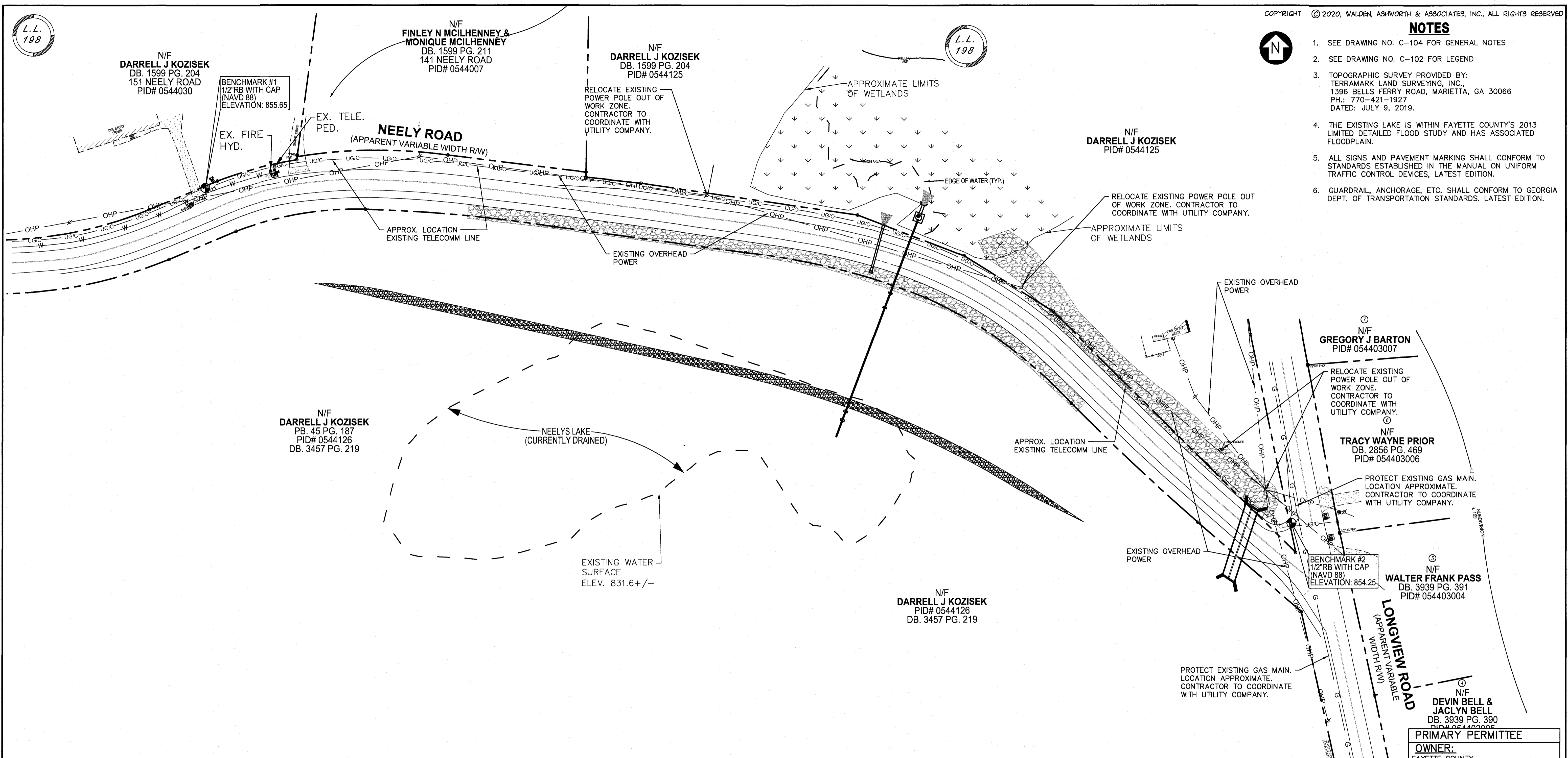


SCALE:	AS SHOWN	DATE:
DESIGN BY:	JMH/JCL	12/20
DRAWN BY:	JMH/JCL	12/20
CHECKED BY:	MLW/JR	12/20
COA:	PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR		
LEVEL 2 CERTIFICATION #	3031	
EXPIRATION DATE:	12/07/23	

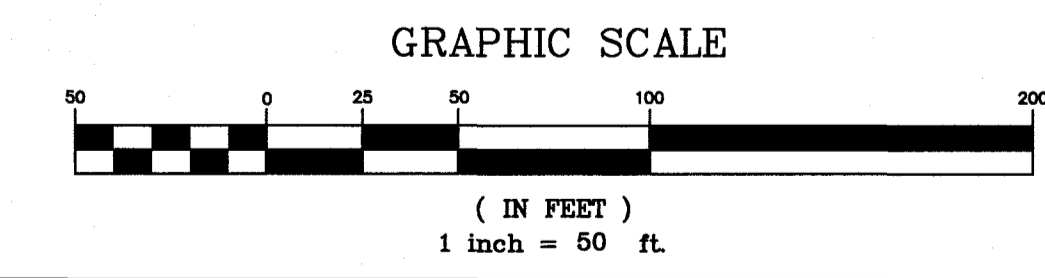
JOB NO. 3902200
DRAWING NUMBER **39022- C-109**
REV. NO. **0**

NOTES

- SEE DRAWING NO. C-104 FOR GENERAL NOTES
- SEE DRAWING NO. C-102 FOR LEGEND
- TOPOGRAPHIC SURVEY PROVIDED BY: TERRAMARK LAND SURVEYING, INC., 1396 BELLS FERRY ROAD, MARIETTA, GA 30066 PH.: 770-421-1927 DATED: JULY 9, 2019.
- THE EXISTING LAKE IS WITHIN FAYETTE COUNTY'S 2013 LIMITED DETAILED FLOOD STUDY AND HAS ASSOCIATED FLOODPLAIN.
- ALL SIGNS AND PAVEMENT MARKING SHALL CONFORM TO STANDARDS ESTABLISHED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- GUARDRAIL, ANCHORAGE, ETC. SHALL CONFORM TO GEORGIA DEPT. OF TRANSPORTATION STANDARDS, LATEST EDITION.



CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GEORGIA811, OVERHEAD PROTECTION ACT



811
 Know what's below.
 Call before you dig.

PRIMARY PERMITTEE
OWNER:
 FAYETTE COUNTY BOARD OF COMMISSIONERS, et al.
 140 STONEWALL AVENUE WEST
 FAYETTEVILLE, GEORGIA 30214
 CONTACT: MR. PHIL MALLON
 PHONE: (770) 320-6010

24 HR. CONTACT PERSON
 PHIL MALLON
 (770) 313-9855

RELEASED FOR CONSTRUCTION
 BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

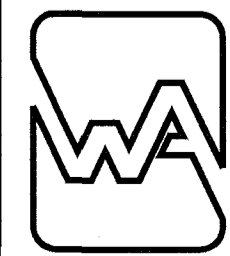
NO.	REVISIONS	MADE	CKD.	DATE	NO.	REVISIONS	MADE	CKD.	DATE



SCALE: 1"=50'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR	
LEVEL 2 CERTIFICATION # 3031	
EXPIRATION DATE: 12/07/23	

THE SITE IS LOCATED ON NEEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

KOZISEK LAKE UTILITIES UTILITY PLAN
FAYETTE COUNTY

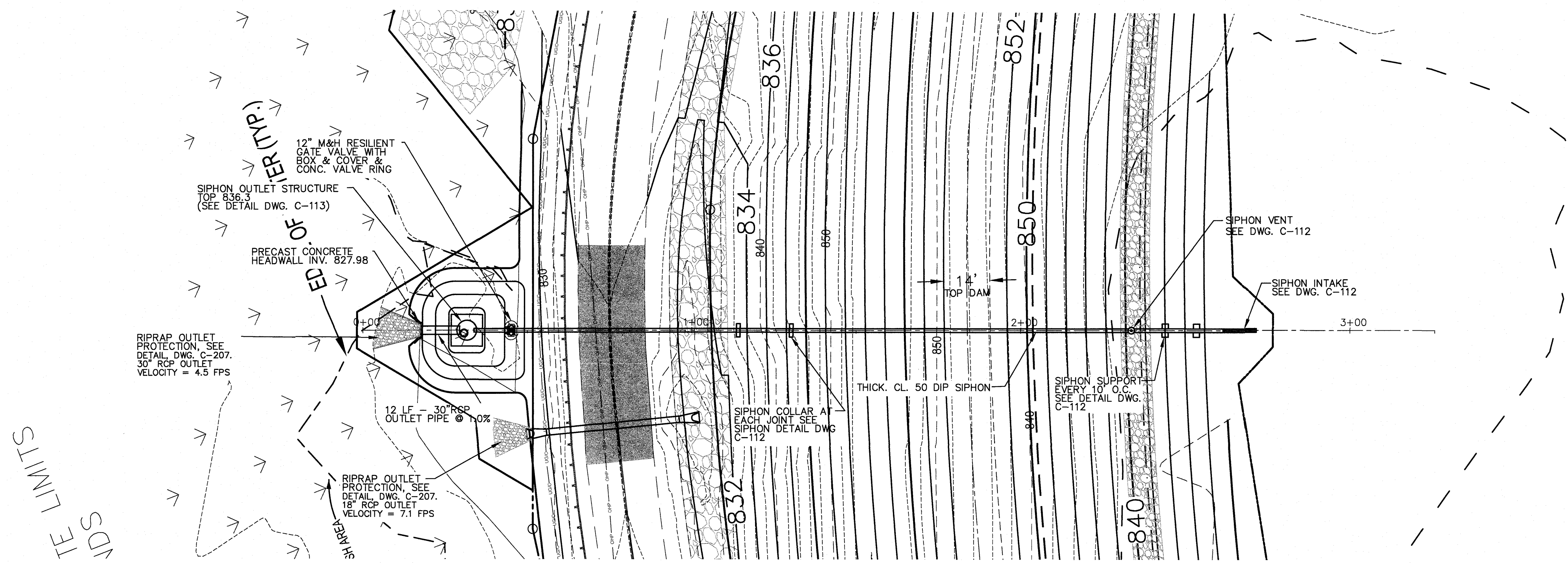


WALDEN, ASHWORTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 P.O. BOX
 MARIETTA, GEORGIA 30065
 (770) 956-7897
 COA: PEF000707 EXP: 06/30/2020

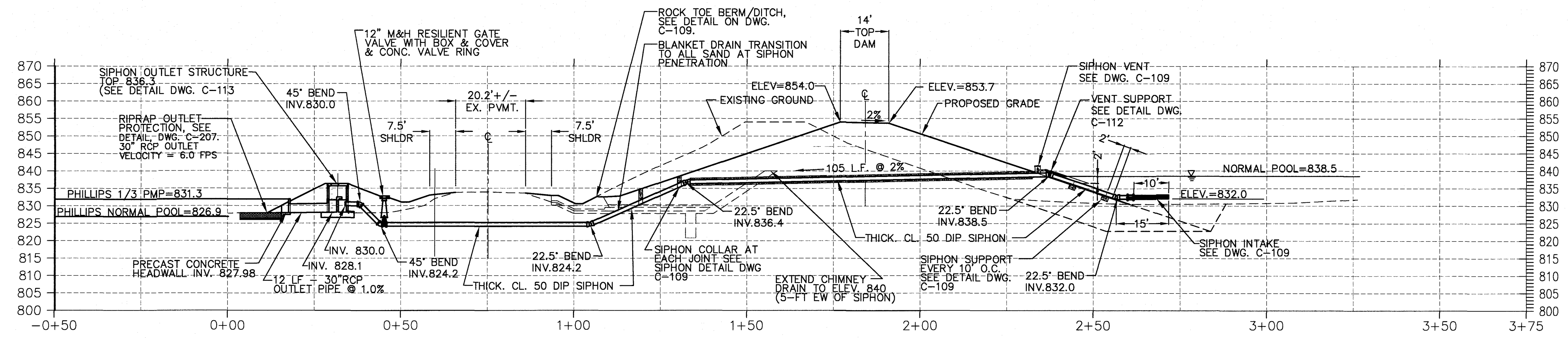
JOB NO. 3902200	DRAWING NUMBER 39022- C-110	REV. NO. 0
--------------------	---------------------------------------	----------------------

APPROVED
 07/13/2023
 FAYETTE COUNTY
 ENVIRONMENTAL MANAGEMENT

5/26/2023



SIPHON PLAN
SCALE: 1" = 20'



SIPHON PROFILE
SCALE: 1" = 20' HORZ. & VERT.

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES
AUG 17 2023
Calli Drobot
Environmental Protection Division
Safe Dams Program

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

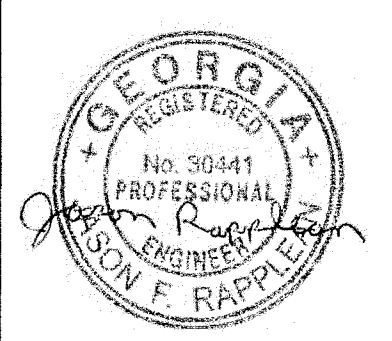
24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855



THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

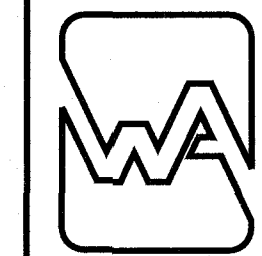
RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NO.	REVISIONS	MADE	CKD.	DATE	NO.	REVISIONS	MADE	CKD.	DATE



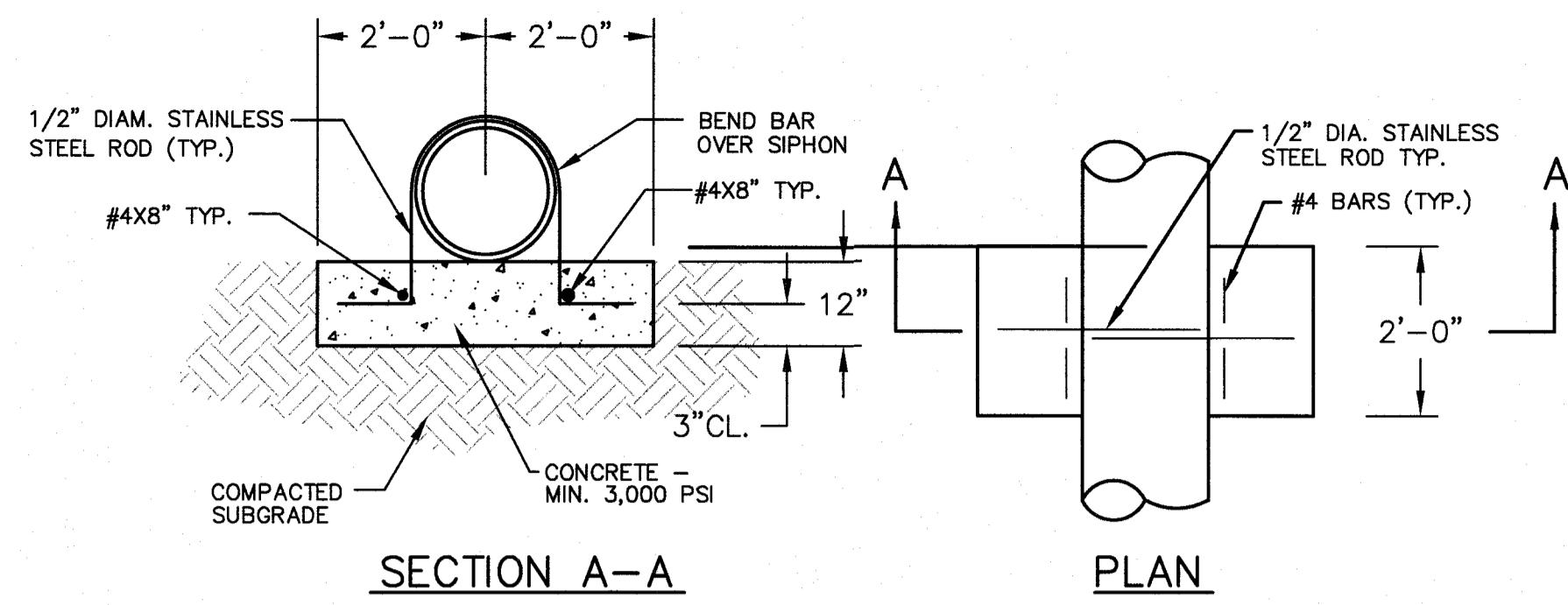
SCALE: AS SHOWN	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR	LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE:	12/07/23

KOZISEK LAKE
SIPHON SPILLWAY
PLAN & PROFILE
FAYETTE COUNTY

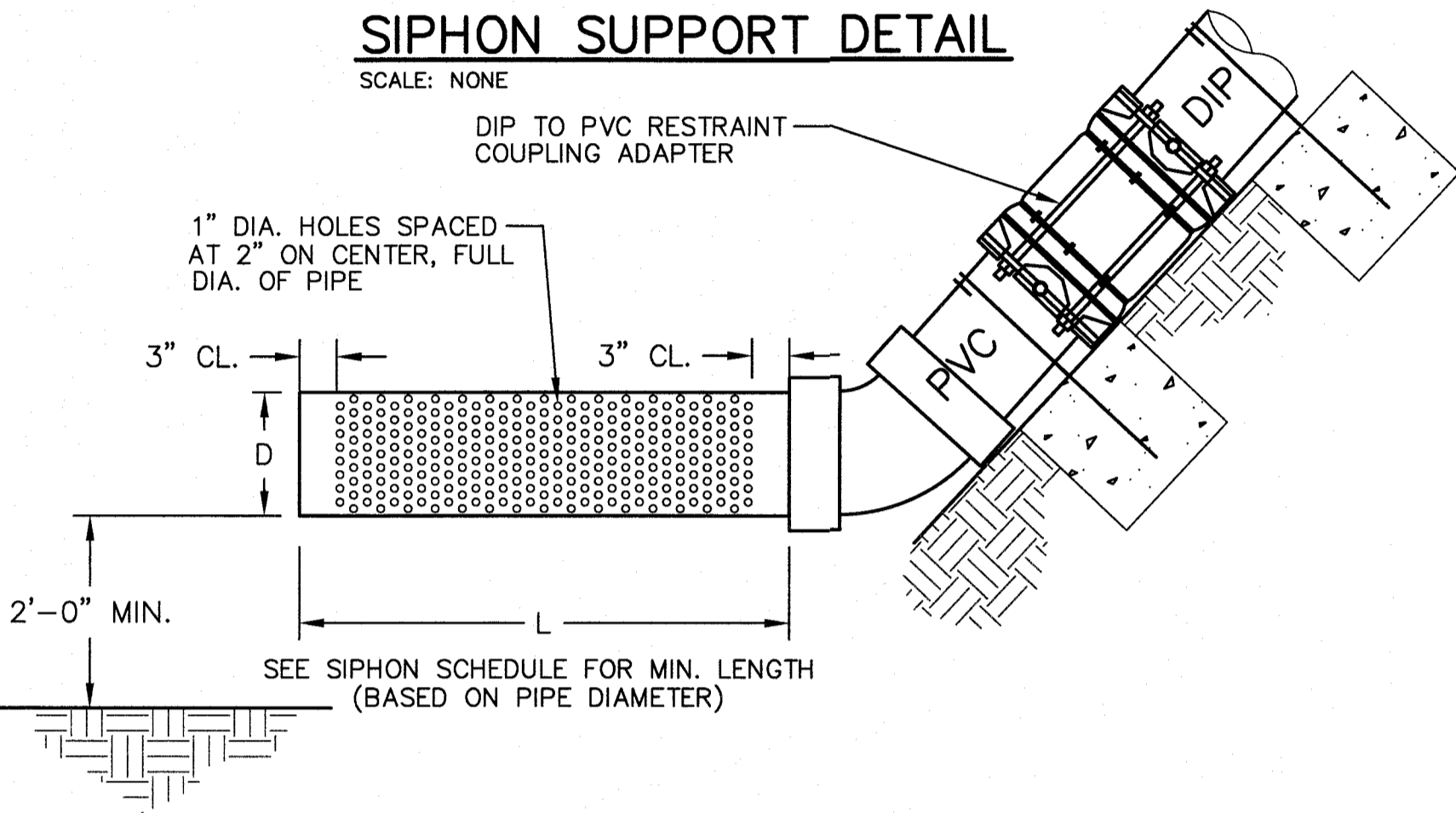


WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200	DRAWING NUMBER 39022- C-111	REV. NO. 0
--------------------	---------------------------------------	----------------------

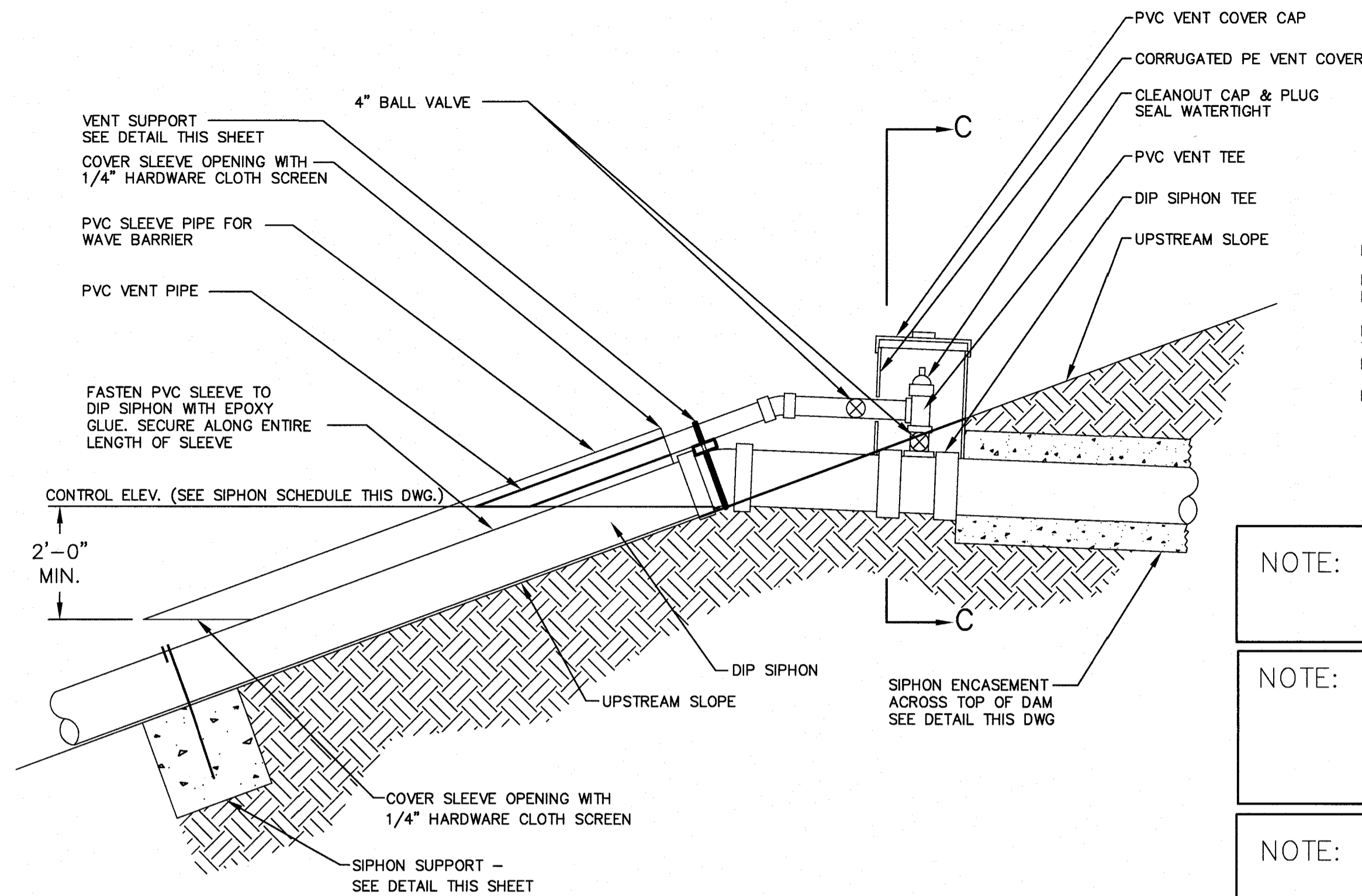


SECTION A-A
SIPHON SUPPORT DETAIL
SCALE: NONE

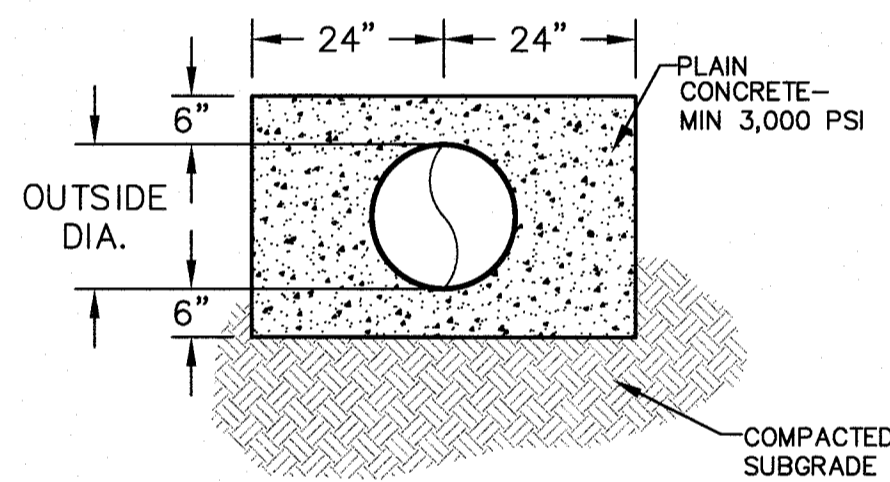


SIPHON INTAKE DETAIL
SCALE: NONE

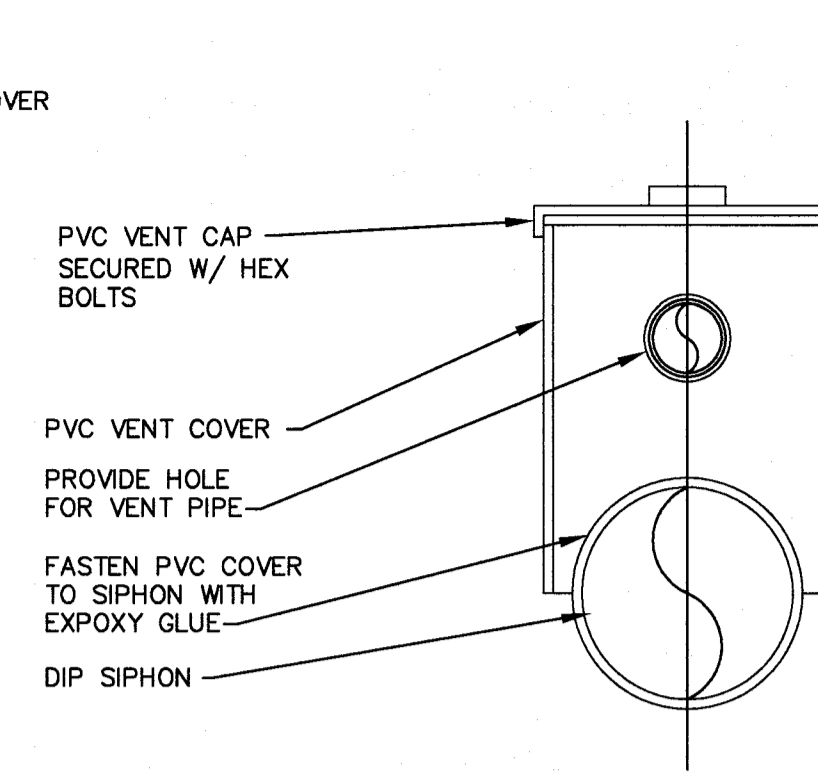
SIPHON SCHEDULE										
SIPHON	SIPHON SIZE D	VENT SIZE	SLEEVE SIZE	SIPHON TEE SIZE	VENT TEE SIZE	VENT COVER SIZE	INTAKE ELEV.	CONTROL ELEV.	DISCHARGE ELEV.	INTAKE LENGTH L
1	12"	4"	12"	12"x4"	4"	8"	832.0	838.5	830.0	10'



SIPHON VENT DETAIL
SCALE: NONE



SIPHON ENCASEMENT DETAIL
SCALE: 1/2" = 1'

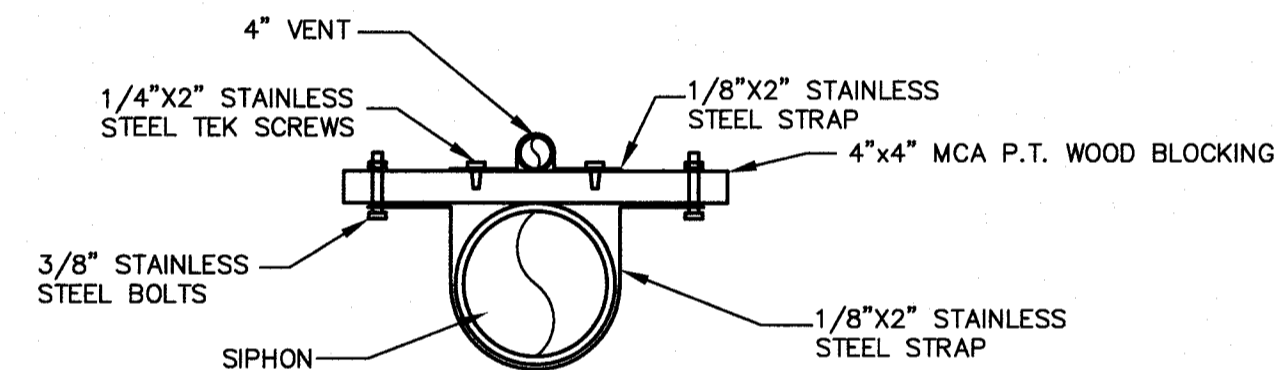


SECTION C-C

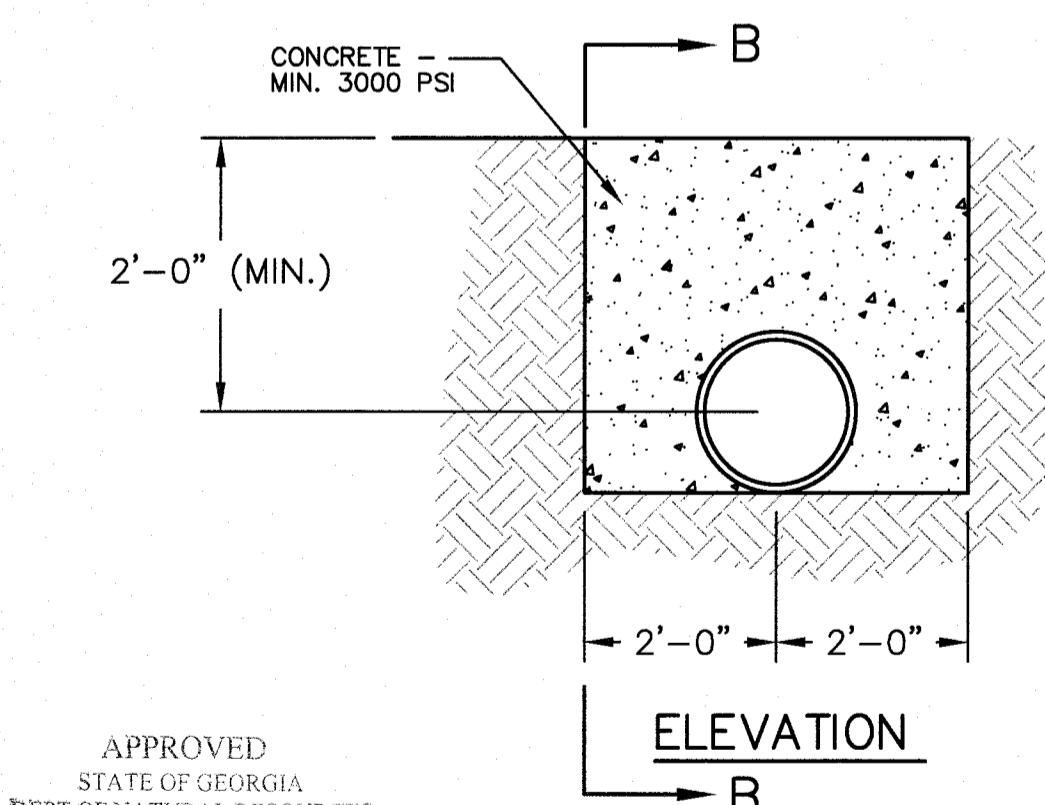
NOTE: SIPHON SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.

NOTE: ALL EXPOSED PVC SHALL BE PAINTED WITH A LIGHT COLORED ACRYLIC OR LATEX PAINT THAT IS COMPATIBLE WITH PVC PIPE.

NOTE: SIPHON VENT AND INTAKE SHALL BE CONSTRUCTED OF PVC.

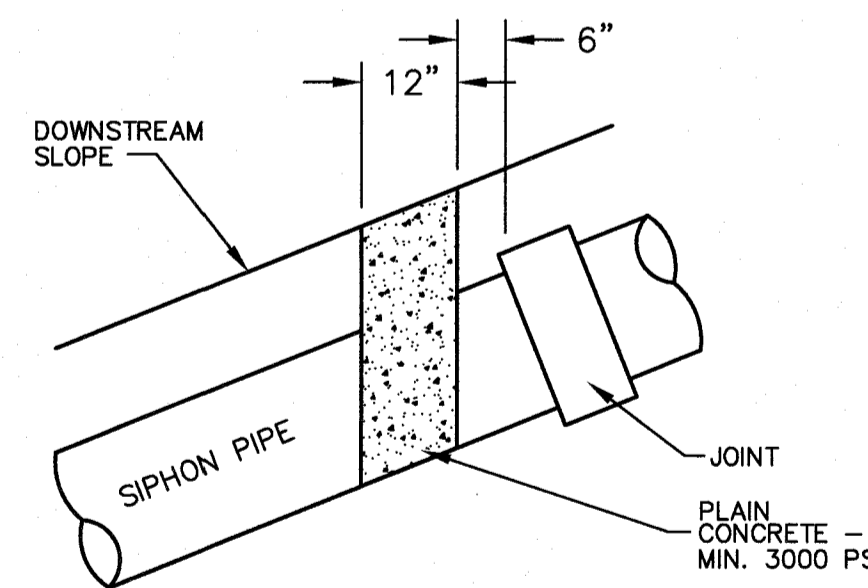


VENT SUPPORT DETAIL
SCALE: 1/2" = 1'



APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES
AUG 17 2023
Walden Ashworth
Environmental Protection Division
Safe Dams Program

SIPHON COLLAR
SCALE: 1/2" = 1'



SECTION B-B

NOTE: LOCATE SIPHON COLLAR @ EACH JOINT ON DOWNSTREAM SLOPE.

SIPHON NOTES

1. THE SIPHON SHALL BE DUCTILE IRON PIPE, THICKNESS CLASS 50.
2. END CAPS, COUPLINGS, AND FITTINGS SHALL BE SUITABLE FOR USE WITH THE SPECIFIED PIPE AND SHALL BE MADE AIR-TIGHT.
3. SIPHON COLLARS SHALL BE LOCATED AT EACH PIPE JOINT ON THE DOWNSTREAM SLOPE.
4. THE SIPHON SYSTEM SHALL BE INSTALLED BY TRENCHING METHODS. BACKFILL AROUND THE CONCRETE ENCASED PIPE SHALL BE HAND COMPACTED TO 95% STANDARD PROCTOR, MAXIMUM DRY DENSITY.
5. THE SIPHON SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE ENGINEER FOR LEAKAGE. ENGINEER SHALL PROVIDE SAFE DAMS PROGRAM 48 HOURS NOTICE PRIOR TO TESTING.
6. ALL JOINTS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SHALL BE WATER TIGHT FOR A HEAD OF AT LEAST FIFTY (50) FEET OF WATER.
7. TRAVEL OVER SIPHON WILL NOT BE PERMITTED UNTIL THE PIPE HAS BEEN COVERED TO A DEPTH SUFFICIENT TO PREVENT DAMAGE TO OR BREAKAGE OF THE PIPE.
8. NO PIPE THAT HAS BEEN DAMAGED SHALL BE USED IN THE WORK IF, IN THE OPINION OF THE ENGINEER, THE PIPE IS UNFIT FOR USE.
9. THE METHOD OF LOWERING THE PIPE INTO THE TRENCH AND PLACING PIPE IN POSITION SHALL BE SUCH AS TO PREVENT ENTRANCE OF DIRT INSIDE OF THE PIPE AND COUPLING, AND TO PREVENT DAMAGE TO THE PIPE.
10. BEFORE AND DURING ASSEMBLY OF A JOINT, ALL PARTS SHALL BE CLEANED AND SHALL BE FREE OF MUD, ICE, OIL, OR GREASE.
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE SIPHON SYSTEM WHICH OCCURS DURING CONSTRUCTION OF THE EMBANKMENT.

DRAWDOWN PROCEDURE

1. CLOSE VENT PIPE AT BALL VALVE OUTSIDE THE VENT COVER.
2. CLOSE OUTFLOW PIPE AT DOWNSTREAM END WITH GATE VALVE (WATER VALVE KEY REQUIRED).
3. REMOVE CLEANOUT CAP, ENSURE THAT BALL VALVE TO SIPHON TEE IS OPEN AND ATTACH A VACUUM PUMP (CONTRACTOR SHALL PROVIDE PUMP).
4. USING THE PUMP, FILL THE SIPHON PIPE.
5. WHEN THE PIPE IS FULL QUICKLY OPEN THE GATE VALVE AT THE DOWNSTREAM END OF THE SIPHON PIPE AND SHUT OFF THE PUMP. CLOSE THE VALVE AT THE SIPHON TEE.
6. TO BREAK THE SIPHON, OPEN THE BALL VALVES THAT WERE CLOSED DURING STEPS 1 & 5.
7. REPLACE CLEANOUT CAP AND VENT COVER CAP.

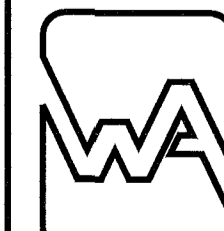
PRIMARY PERMITTEE

OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855



RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21



WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

**KOZISEK LAKE
SIPHON SPILLWAY
SIPHON DETAILS**

FAYETTE COUNTY

JOB NO.
3902200

DRAWING NUMBER
39022- C-112

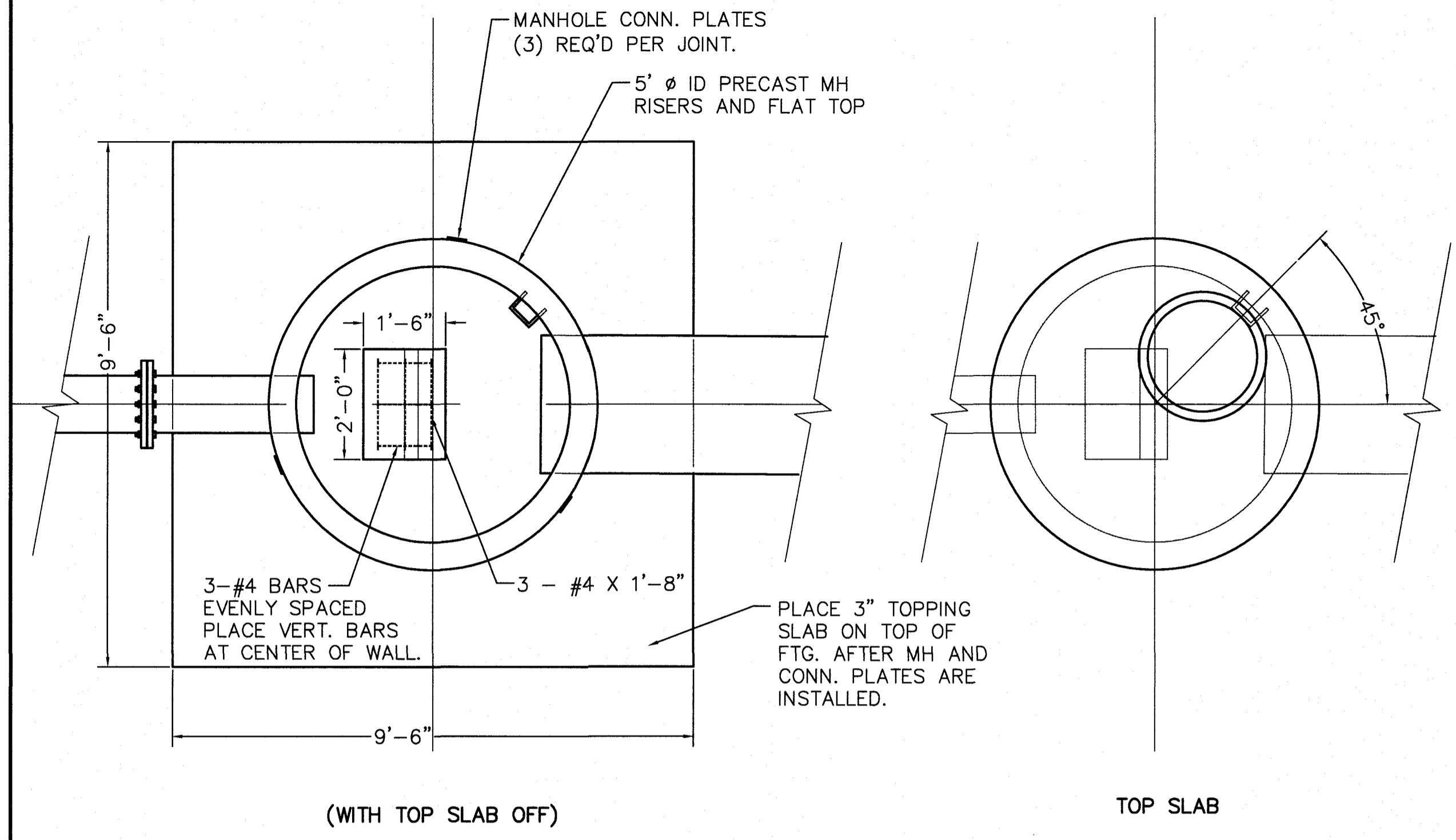
REV. NO.
0

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



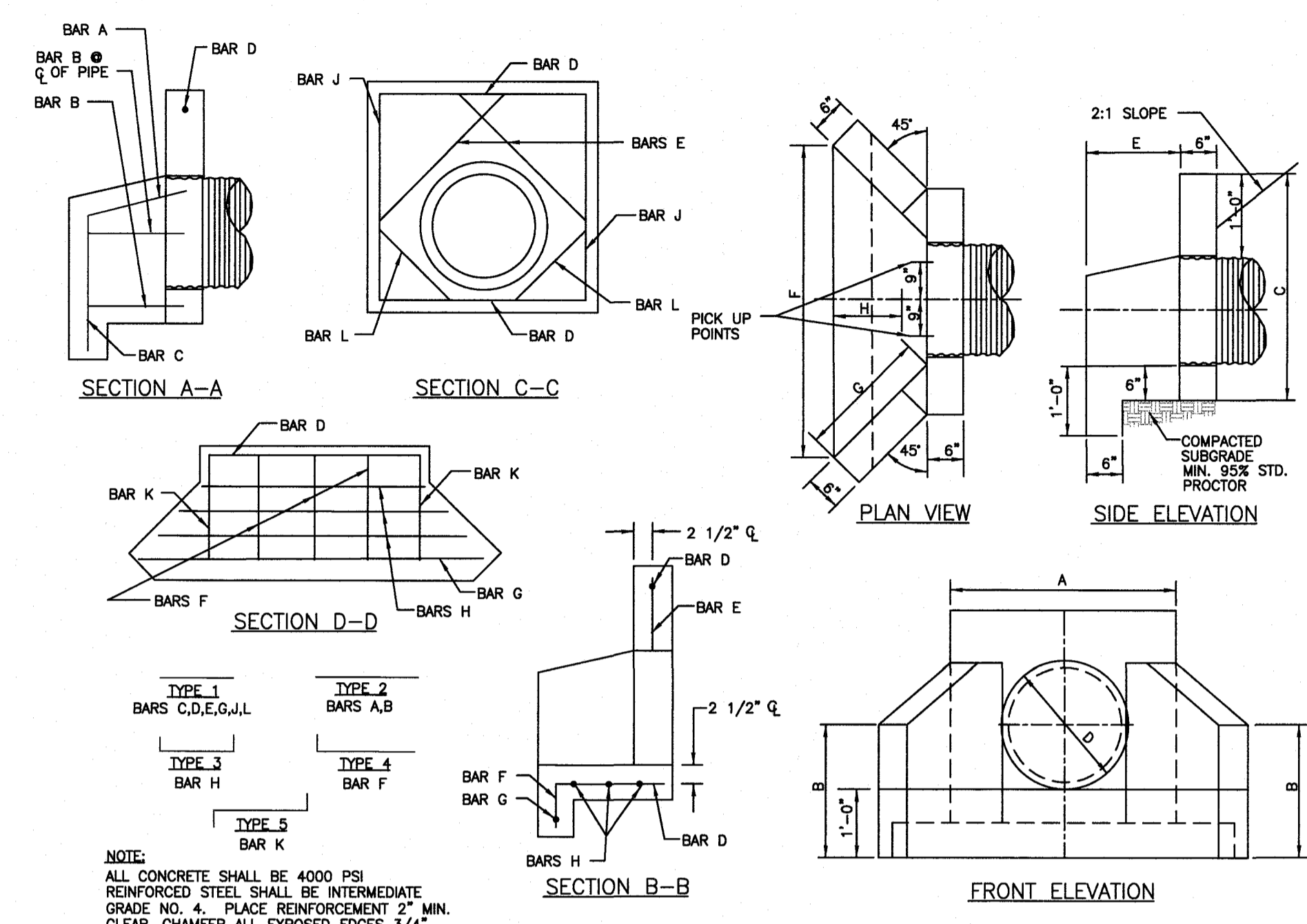
SCALE: AS SHOWN	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR	LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE:	12/07/23

5/26/2023



SIPHON OUTLET PLAN
SCALE: 1/2" = 1'

SIPHON OUTLET PLAN
SCALE: 1/2" = 1'



PRECAST HEADWALL DETAILS
N.T.S.

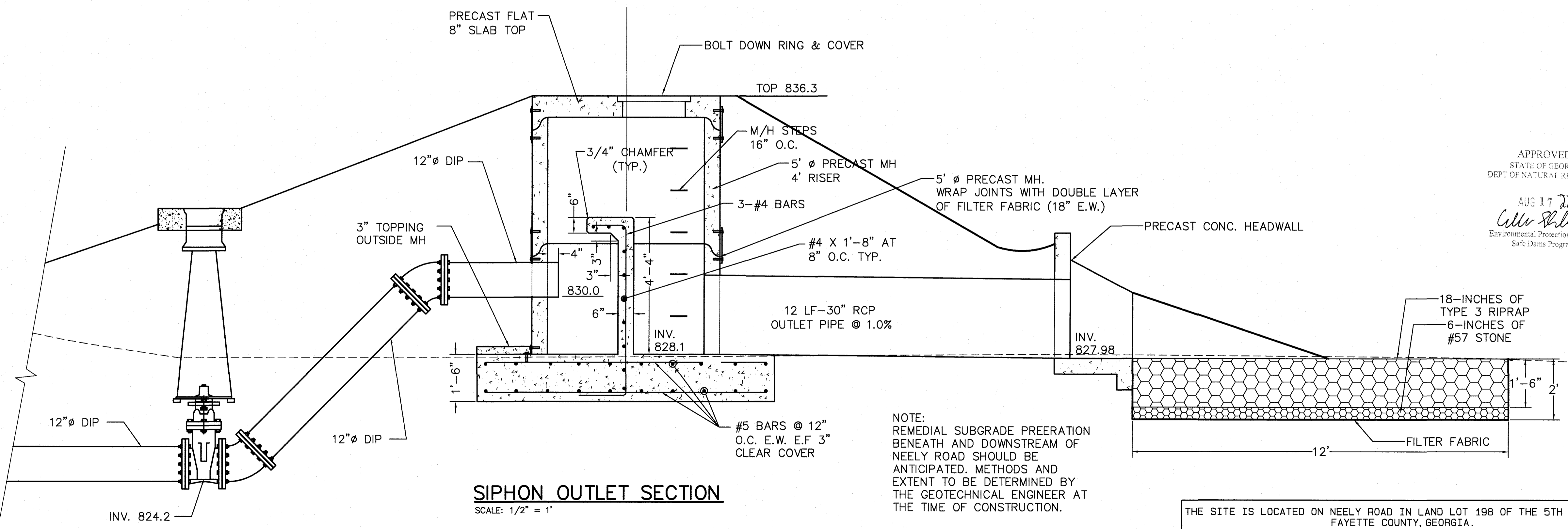
VARIABLE DIMENSIONS A-H (CONCRETE PIPE)

CU. YD. CONC.	INSIDE PIPE DIA.	AREA PIPE OPENING	A	B	C	D	E	F	G	H	WT.	BASE AREA
.43	15"	1.76	3'-5"	2'-4"	3'-4.5"	2'-0"	1'-5"	4'-10"	2'-0"	1'-25"	1753	8.3
.50	21"	2.40	3'-8.5"	2'-6"	3'-8"	2'-3.5"	1'-6"	5'-3.5"	2'-1.5"	1'-88"	2020	9.4
.51	24"	3.14	4'-0"	2'-9"	3'-11"	2'-7"	1'-8"	5'-11"	2'-4.5"	1'-1.75"	2083	11.8
.79	30"	4.91	4'-6.5"	3'-1"	4'-5.5"	3'-1.5"	2'-0"	7'-1.5"	2'-10"	1'-3.875"	3182	15.1
1.0	36"	7.07	5'-1"	3'-5"	5'-0"	3'-8"	2'-4"	8'-0"	3'-3.5"	1'-6"	4089	19.6

VARIABLE DIMENSIONS A-H (METAL PIPE)

CU. YD. CONC.	INSIDE PIPE DIA.	AREA PIPE OPENING	A	B	C	D	E	F	G	H	WT.	BASE AREA
.38	15"	1.76	3'-2"	2'-3"	3'-2"	1'-9"	1'-5"	1'-4"	4'-5"	1'-10.5"	1549	7.34
.44	21"	2.40	3'-5"	2'-5"	3'-5"	2'-0"	1'-5"	4'-10"	2'-0"	1'-25"	1778	8.32
.52	24"	3.14	3'-8"	2'-7"	3'-8"	2'-3"	1'-7"	5'-5"	2'-3"	1'-1.25"	2108	9.90
.70	30"	4.91	4'-2"	2'-11"	4'-2"	2'-9"	1'-11"	6'-7"	2'-8.5"	1'-3.25"	2834	13.5
.91	36"	7.07	4'-8"	3'-3"	4'-8"	3'-3"	2'-3"	7'-9"	3'-2.25"	1'-5.375"	3678	17.65

HEADWALL DIMENSION TABLE



SIPHON OUTLET SECTION
SCALE: 1/2" = 1'

NOTE: REMEDIAL SUBGRADE PREERATION BENEATH AND DOWNSTREAM OF NEELY ROAD SHOULD BE ANTICIPATED. METHODS AND EXTENT TO BE DETERMINED BY THE GEOTECHNICAL ENGINEER AT THE TIME OF CONSTRUCTION.

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES
AUG 17 2023
C. Miller
Environmental Protection Division
Safe Dams Program

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

811
Know what's below.
Call before you dig.

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

**KOZISEK LAKE
SIPHON SPILLWAY
SIPHON OUTLET DETAILS
FAYETTE COUNTY**

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

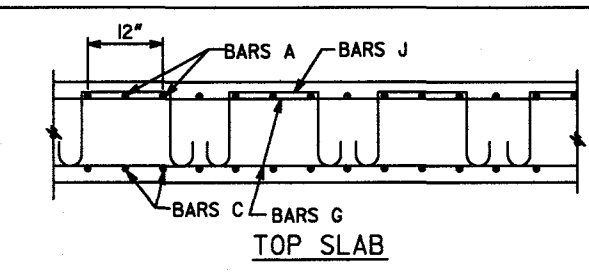
NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE

APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT

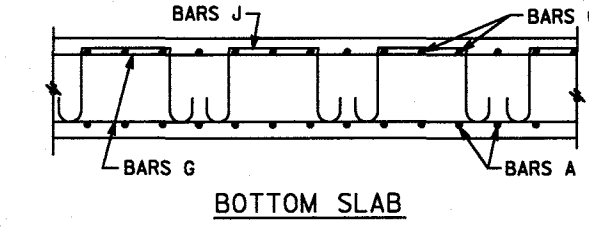
5/26/2023

SCALE: AS SHOWN	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR	LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE:	12/07/23

JOB NO. 3902200
DRAWING NUMBER **39022- C-113**
REV. NO. **0**

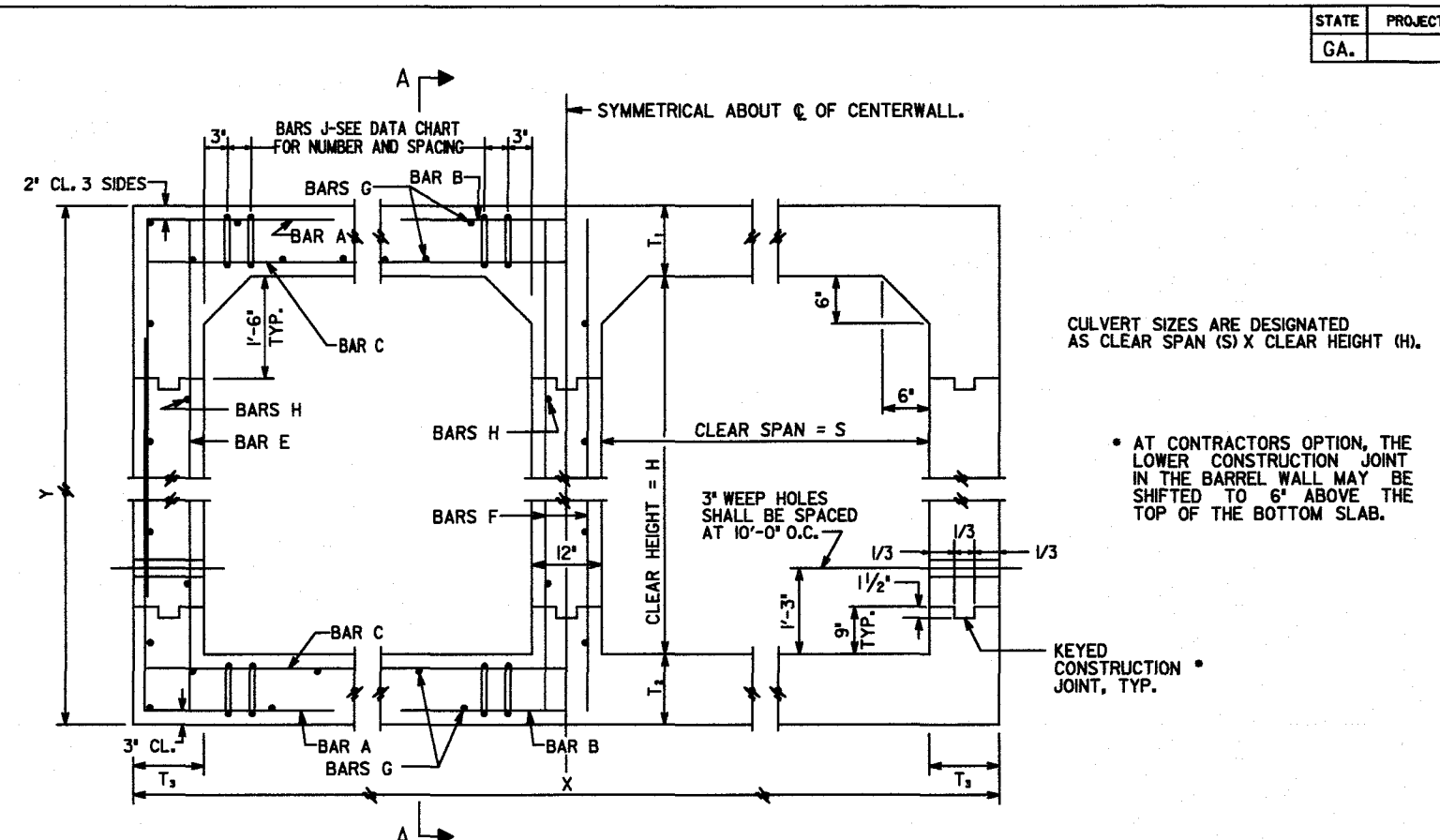


NOTE: SPACING OF BARS A AND C IS 6" OR 12". SEE BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS.



NOTE: LONGITUDINAL WINGWALL AND PARAPET BARS EXTEND INTO BARREL. SEE WINGWALL AND PARAPET STANDARDS.

SECTION A-A



TYPICAL BARREL SECTION-ALL DESIGNS

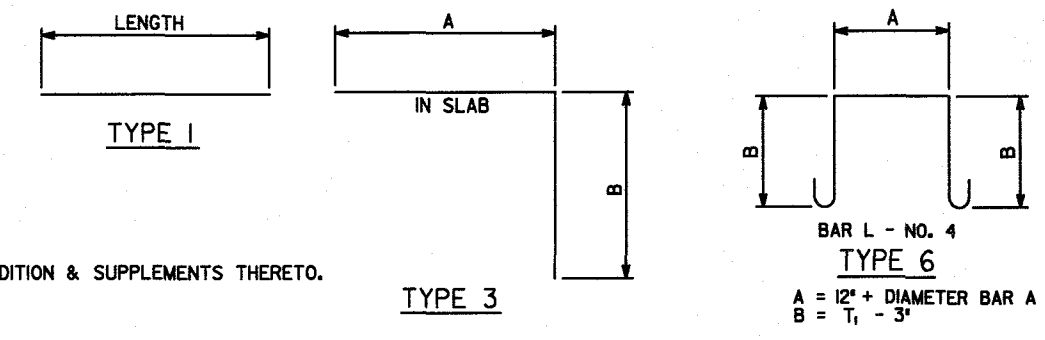
Table with 8 columns for design types (1-8) and 8 rows for maximum fill height (10', 20', 30', 40', 50', 60', 70', 80').

- 1) MINIMUM HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE "A".
2) DESIGN OF THE CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.
3) TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED NORMAL TO THE CENTERLINE OF THE CULVERT AT THE OUTSIDE SHOULDER BREAK POINTS...

- 1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2) ALL CONCRETE SHALL BE CLASS "AA".
3) CHAMFER ALL EXPOSED EDGES 1/4".
4) COST OF DRAIN PIPES, WEEP HOLES, COARSE AGGREGATE, AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

DESIGN DATA

SPECIFICATIONS - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014. TYPICAL HL-93 LOADING.



GENERAL NOTES

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA STANDARD REINFORCED CONCRETE DOUBLE BOX CULVERT. Includes title block with date SEPTEMBER 2017 and number 2402.

Main reinforcement schedule table with columns for MARK, LENGTH, TYPE, and A/B. Lists various bar sizes and quantities for different designs.

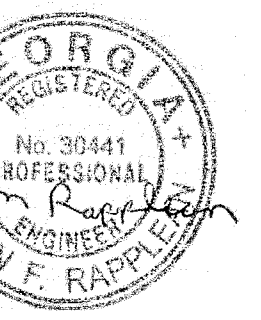
Table titled 'DOUBLE 6'-0" X 3'-0" BOX CULVERT' showing reinforcement quantities and dimensions for various design types.

Table titled 'DOUBLE 6'-0" X 4'-0" BOX CULVERT' showing reinforcement quantities and dimensions for various design types.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA STANDARD REINFORCED CONCRETE DOUBLE BOX CULVERT 6'X3' AND 6'X4'. Includes title block with date SEPTEMBER 2017 and number 2402.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA STANDARD REINFORCED CONCRETE DOUBLE BOX CULVERT. Includes title block with date SEPTEMBER 2017 and number 2402, and a primary permittee section for Fayette County.

Revisions table with columns for NO., REVISIONS, MADE, CKD., DATE. Includes a date stamp of 5/26/2023.



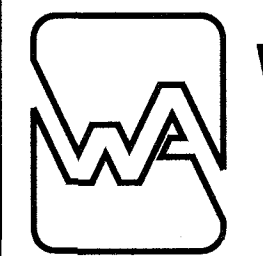
Construction release information including 'RELEASED FOR CONSTRUCTION BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21', 'KOZISEK LAKE BOX CULVERT BOX CULVERT DETAILS FAYETTE COUNTY', and 'WALDEN, ASHWORTH & ASSOCIATES, INC. CONSULTING ENGINEERS'.



PRIMARY PERMITTEE OWNER: FAYETTE COUNTY BOARD OF COMMISSIONERS, et al. 405 STONEWALL AVENUE, WEST FAYETTEVILLE, GEORGIA 30214

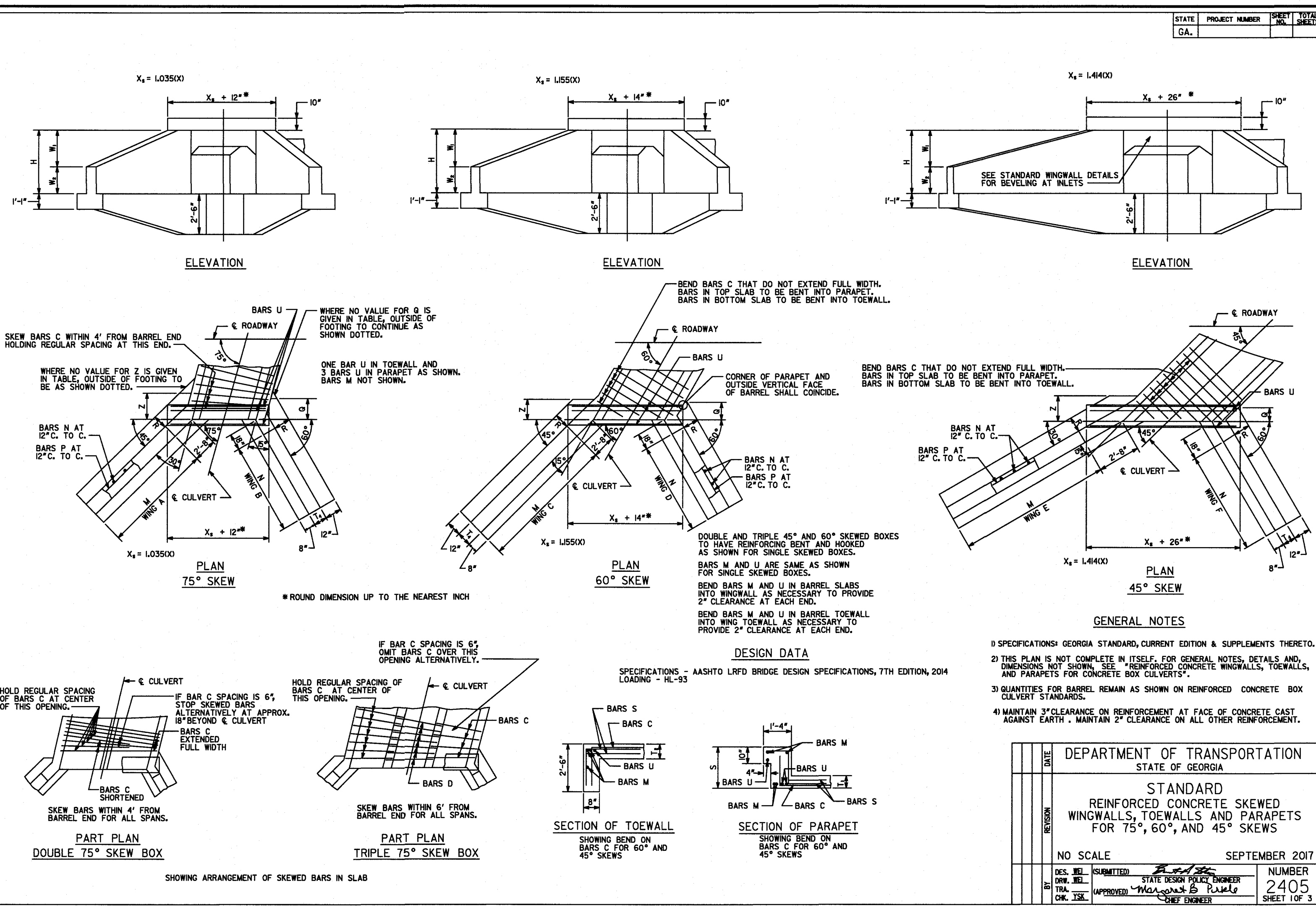
24 HR. CONTACT PERSON PHIL MALLON (770) 313-9855

RELEASED FOR CONSTRUCTION BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21



WALDEN, ASHWORTH & ASSOCIATES, INC. CONSULTING ENGINEERS P.O. BOX MARIETTA, GEORGIA 30065 (770) 956-7897 COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200 DRAWING NUMBER 39022-C-114 REV. NO. 0



WINGWALLS, TOEWALLS AND PARAPETS FOR 75° SKEW

CLEAR HEIGHT	N BARS AT 1'-0" C. TO C.						P BARS AT 1'-0" C. TO C. - WING A						P BARS AT 1'-0" C. TO C. - WING B						R BARS AT 1'-0" C. TO C.						M BARS						U BARS					
	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH
2'	#4	8	5'-5"	12	4'-4"	5'-2"	#4	10	4'-6"	2	2'-1"	2'-1"	#4	10	3'-5"	2	1'-3"	1'-3"	#6	40	3'-6"	3'-6"	#6	14	X _s +8"	#6	8	X _s +8"	2'	#4	14	X _s +8"	#6	8	X _s +8"	2'

QUANTITIES SHOWN INCLUDE WINGWALLS, WINGWALL FOOTINGS, AND WINGWALL TOEWALL FOR BOTH ENDS.

DEPARTMENTS AND QUANTITIES FOR 75° SKEW

CLEAR HEIGHT	H	W ₁	W ₂	S	M	N	Q	R	T ₁	Z	CY CLASS AA CONCRETE	LB BAR REINF STEEL	CLEAR HEIGHT
2'	3'-1"	1'-1"	2'-0"	1'-1"	3'-0"	2'-8"	-	1'-0"	10"	-	4.0	335	2'

WINGWALLS, TOEWALLS AND PARAPETS FOR 60° SKEW

CLEAR HEIGHT	N BARS AT 1'-0" C. TO C.						P BARS AT 1'-0" C. TO C. - WING C						P BARS AT 1'-0" C. TO C. - WING D						R BARS AT 1'-0" C. TO C.						M BARS						U BARS					
	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH
2'	#4	8	5'-5"	12	4'-4"	5'-2"	#4	10	4'-6"	2	2'-1"	2'-1"	#4	10	3'-5"	2	1'-3"	1'-3"	#6	40	3'-6"	3'-6"	#6	14	X _s +10"	#6	8	X _s +10"	2'	#4	14	X _s +10"	#6	8	X _s +10"	2'

QUANTITIES SHOWN INCLUDE WINGWALLS, WINGWALL FOOTINGS, AND WINGWALL TOEWALL FOR BOTH ENDS.

DEPARTMENTS AND QUANTITIES FOR 60° SKEW

CLEAR HEIGHT	H	W ₁	W ₂	S	M	N	Q	R	T ₁	Z	CY CLASS AA CONCRETE	LB BAR REINF STEEL	CLEAR HEIGHT
2'	3'-1"	1'-1"	2'-0"	1'-1"	3'-0"	2'-8"	-	1'-0"	10"	-	4.0	335	2'

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD REINFORCED CONCRETE SKEWED WINGWALLS, TOEWALLS AND PARAPETS FOR 75° AND 60° SKEWS

NO SCALE SEPTEMBER 2017

DES. BY: [Signature] NUMBER 2405
 DRW. BY: [Signature] STATE DESIGN POLICY ENGINEER
 CHK. BY: [Signature] APPROVED: [Signature] SHEET 2 OF 3

WINGWALLS, TOEWALLS AND PARAPETS FOR 45° SKEW

CLEAR HEIGHT	N BARS AT 1'-0" C. TO C.						P BARS AT 1'-0" C. TO C. - WING E						P BARS AT 1'-0" C. TO C. - WING F						R BARS AT 1'-0" C. TO C.						M BARS						U BARS					
	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH	SIZE	NO. CONSTANT LENGTH	LENGTH	NO. VARIABLE LENGTH	LENGTH	NO. VARIABLE LENGTH
2'	#4	6	5'-5"	12	4'-4"	5'-4"	#4	10	5'-0"	2	1'-7"	1'-7"	#4	10	3'-5"	2	1'-3"	1'-3"	#6	44	3'-6"	3'-6"	#6	14	X _s +13"	#6	8	X _s +13"	2'	#4	14	X _s +13"	#6	8	X _s +13"	2'

QUANTITIES SHOWN INCLUDE WINGWALLS, WINGWALL FOOTINGS, AND WINGWALL TOEWALL FOR BOTH ENDS.

DEPARTMENTS AND QUANTITIES FOR 45° SKEW

CLEAR HEIGHT	H	W ₁	W ₂	S	M	N	Q	R	T ₁	Z	CY CLASS AA CONCRETE	LB BAR REINF STEEL	CLEAR HEIGHT
2'	3'-1"	1'-1"	2'-0"	1'-1"	4'-3"	2'-8"	-	1'-0"	10"	-	4.5	365	2'

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD REINFORCED CONCRETE SKEWED WINGWALLS, TOEWALLS AND PARAPETS FOR 45° SKEW

NO SCALE SEPTEMBER 2017

DES. BY: [Signature] NUMBER 2405
 DRW. BY: [Signature] STATE DESIGN POLICY ENGINEER
 CHK. BY: [Signature] APPROVED: [Signature] SHEET 3 OF 3

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2020
Call Shiles
Environmental Protection Division
Safe Dams Program

811
Know what's below.
Call before you dig.

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

COZISEK LAKE BOX CULVERT BOX CULVERT DETAILS FAYETTE COUNTY

SCALE: AS SHOWN DATE: 12/20
 DESIGN BY: JMH/JCL 12/20
 DRAWN BY: JMH/JCL 12/20
 CHECKED BY: MLW/JR 12/20
 COA: PEF000707 EXP: 06/30/2024

JASON RAPPELAN, PE, EOR
LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE: 12/07/23

NO. REVISIONS MADE CKD. DATE NO. REVISIONS MADE CKD. DATE

APPROVED 07/13/2023 FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT

3902200 **39022-C-115** 0

NO. REVISIONS MADE CKD. DATE NO. REVISIONS MADE CKD. DATE

APPROVED 07/13/2023 FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT

3902200 **39022-C-115** 0

CLEARING PHASE NOTES:

PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS, AND SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:

1. THE CONSTRUCTION EXIT SHALL BE PLACED AS SHOWN ON THE PLANS.
2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXIT, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
3. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.

WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.

AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT SEDIMENT PONDS AS SHOWN ON PLANS.

CONSTRUCTION EXIT NOTE:

A STABILIZED CONSTRUCTION EXIT WILL BE PROVIDED AT THE SITE ENTRANCE. THE (PUBLIC) DRIVEWAY AND STREET WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, AND ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ALL SILT FENCES MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

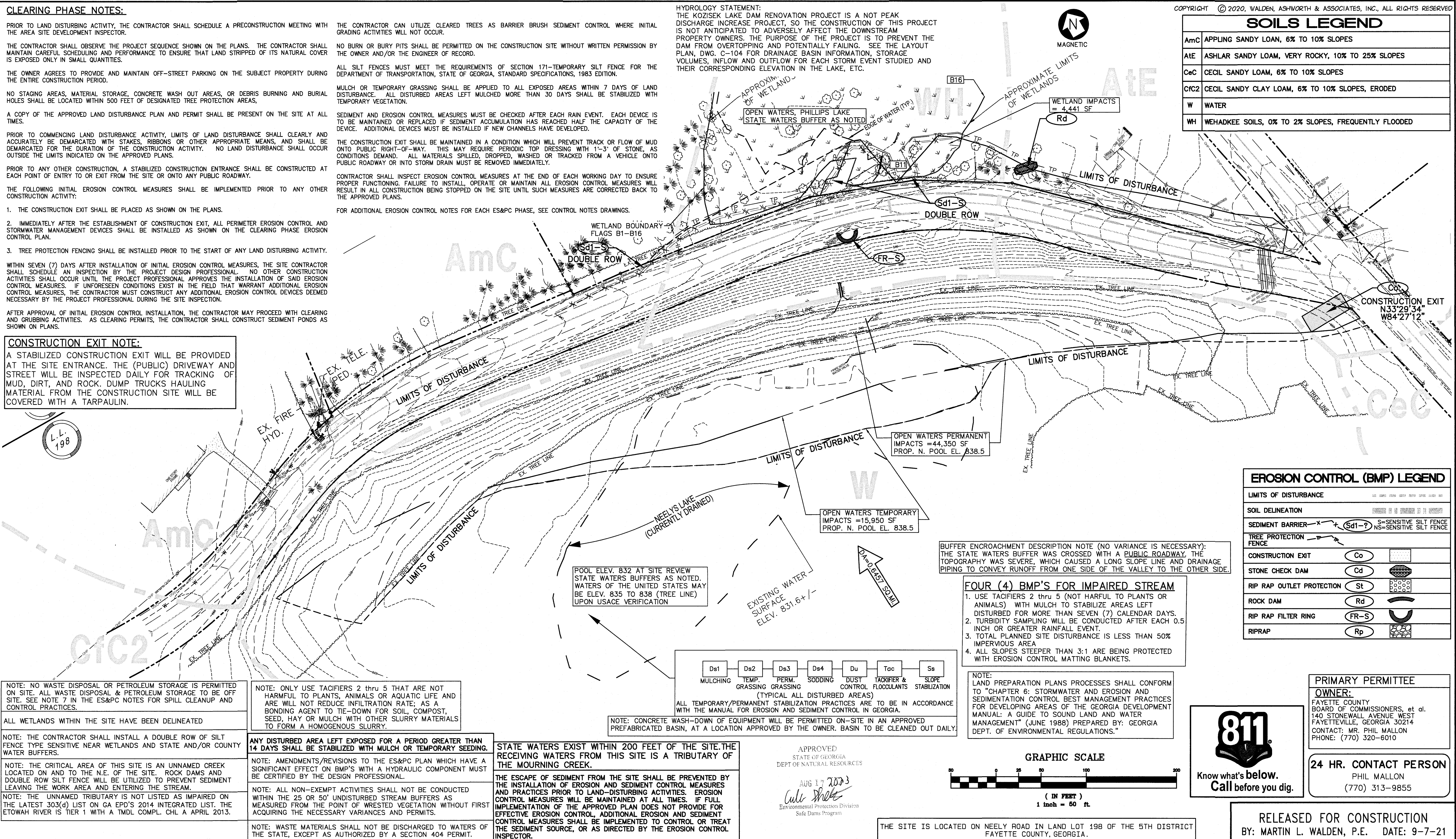
CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

FOR ADDITIONAL EROSION CONTROL NOTES FOR EACH ES&PC PHASE, SEE CONTROL NOTES DRAWINGS.

HYDROLOGY STATEMENT:
THE KOZISEK LAKE DAM RENOVATION PROJECT IS A NOT PEAK DISCHARGE INCREASE PROJECT, SO THE CONSTRUCTION OF THIS PROJECT IS NOT ANTICIPATED TO ADVERSELY AFFECT THE DOWNSTREAM PROPERTY OWNERS. THE PURPOSE OF THE PROJECT IS TO PREVENT THE DAM FROM OVERTOPPING AND POTENTIALLY FAILING. SEE THE LAYOUT PLAN, DWG. C-104 FOR DRAINAGE BASIN INFORMATION, STORAGE VOLUMES, INFLOW AND OUTFLOW FOR EACH STORM EVENT STUDIED AND THEIR CORRESPONDING ELEVATION IN THE LAKE, ETC.

COPYRIGHT © 2020, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

SOILS LEGEND	
AmC	APPLING SANDY LOAM, 6% TO 10% SLOPES
AtE	ASHLAR SANDY LOAM, VERY ROCKY, 10% TO 25% SLOPES
CeC	CECIL SANDY LOAM, 6% TO 10% SLOPES
CfC2	CECIL SANDY CLAY LOAM, 6% TO 10% SLOPES, ERODED
W	WATER
WH	WEHADKEE SOILS, 0% TO 2% SLOPES, FREQUENTLY FLOODED

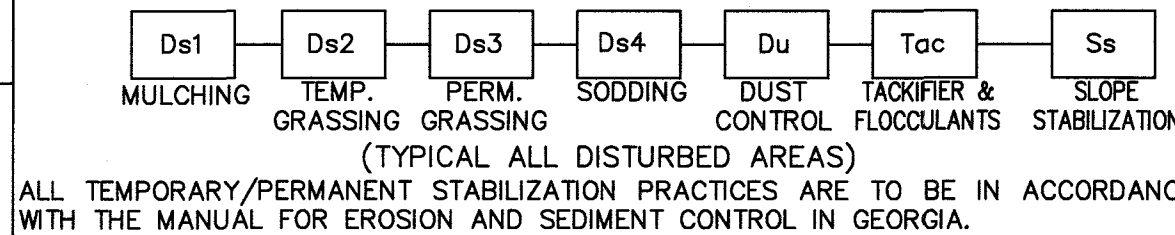


EROSION CONTROL (BMP) LEGEND	
LIMITS OF DISTURBANCE	---
SOIL DELINEATION	---
SEDIMENT BARRIER	--- Sd1-? --- S=SENSITIVE SILT FENCE NS=SENSITIVE SILT FENCE
TREE PROTECTION FENCE	TP
CONSTRUCTION EXIT	Co
STONE CHECK DAM	Cd
RIP RAP OUTLET PROTECTION	St
ROCK DAM	Rd
RIP RAP FILTER RING	FR-S
RIPRAP	Rp

BUFFER ENCROACHMENT DESCRIPTION NOTE (NO VARIANCE IS NECESSARY):
THE STATE WATERS BUFFER WAS CROSSED WITH A PUBLIC ROADWAY. THE TOPOGRAPHY WAS SEVERE, WHICH CAUSED A LONG SLOPE LINE AND DRAINAGE PIPING TO CONVEY RUNOFF FROM ONE SIDE OF THE VALLEY TO THE OTHER SIDE.

- FOUR (4) BMP'S FOR IMPAIRED STREAM**
1. USE TACIFIERS 2 thru 5 (NOT HARMFUL TO PLANTS OR ANIMALS) WITH MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS.
 2. TURBIDITY SAMPLING WILL BE CONDUCTED AFTER EACH 0.5 INCH OR GREATER RAINFALL EVENT.
 3. TOTAL PLANNED SITE DISTURBANCE IS LESS THAN 50% IMPERVIOUS AREA.
 4. ALL SLOPES STEEPER THAN 3:1 ARE BEING PROTECTED WITH EROSION CONTROL MATTING BLANKETS.

NOTE:
LAND PREPARATION PLANS PROCESSES SHALL CONFORM TO "CHAPTER 6: STORMWATER AND EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES FOR DEVELOPING AREAS OF THE GEORGIA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT" (JUNE 1988) PREPARED BY: GEORGIA DEPT. OF ENVIRONMENTAL REGULATIONS."



NOTE: CONCRETE WASH-DOWN OF EQUIPMENT WILL BE PERMITTED ON-SITE IN AN APPROVED PREFABRICATED BASIN, AT A LOCATION APPROVED BY THE OWNER. BASIN TO BE CLEANED OUT DAILY.

NOTE: NO WASTE DISPOSAL OR PETROLEUM STORAGE IS PERMITTED ON SITE. ALL WASTE DISPOSAL & PETROLEUM STORAGE TO BE OFF SITE. SEE NOTE 7 IN THE ES&PC NOTES FOR SPILL CLEANUP AND CONTROL PRACTICES.

NOTE: ONLY USE TACIFIERS 2 thru 5 THAT ARE NOT HARMFUL TO PLANTS, ANIMALS OR AQUATIC LIFE AND ARE WILL NOT REDUCE INFILTRATION RATE; AS A BONDING AGENT TO TIE-DOWN FOR SOIL, COMPOST, SEED, HAY OR MULCH WITH OTHER SLURRY MATERIALS TO FORM A HOMOGENOUS SLURRY.

ALL WETLANDS WITHIN THE SITE HAVE BEEN DELINEATED

NOTE: THE CONTRACTOR SHALL INSTALL A DOUBLE ROW OF SILT FENCE TYPE SENSITIVE NEAR WETLANDS AND STATE AND/OR COUNTY WATER BUFFERS.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTE: THE CRITICAL AREA OF THIS SITE IS AN UNNAMED CREEK LOCATED ON AND TO THE N.E. OF THE SITE. ROCK DAMS AND DOUBLE ROW SILT FENCE WILL BE UTILIZED TO PREVENT SEDIMENT LEAVING THE WORK AREA AND ENTERING THE STREAM.

NOTE: AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

NOTE: THE UNNAMED TRIBUTARY IS NOT LISTED AS IMPAIRED ON THE LATEST 303(d) LIST ON GA EPD'S 2014 INTEGRATED LIST. THE ETOWAH RIVER IS TIER 1 WITH A TMDL COMPL. CHL A APRIL 2013.

NOTE: ALL NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50' UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

NOTE: WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

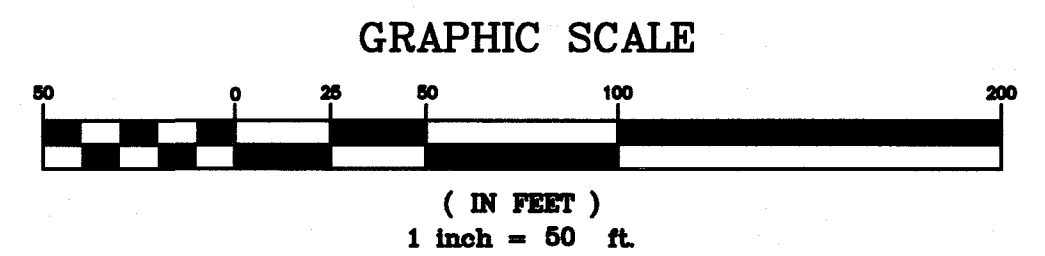
NOTE: WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

STATE WATERS EXIST WITHIN 200 FEET OF THE SITE. THE RECEIVING WATERS FROM THIS SITE IS A TRIBUTARY OF THE MOURNING CREEK.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Curtis
Environmental Protection Division
Safe Dams Program



THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

811
Know what's below.
Call before you dig.

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NO.	REVISIONS	MADE	CKD.	DATE	NO.	REVISIONS	MADE	CKD.	DATE

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 30441
Jason Rapplean
ENGINEERING
JASON F. RAPPLEAN

SCALE:	1"=50'	DATE
DESIGN BY:	JMH/JCL	12/20
DRAWN BY:	JMH/JCL	12/20
CHECKED BY:	MLW/JR	12/20
COA: PEF000707 EXP: 06/30/2024		
JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE: 12/07/23		

**KOZISEK LAKE
ES&PC
INITIAL PLAN
FAYETTE COUNTY**

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956 - 7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200 DRAWING NUMBER **39022-C-202** REV. NO. 0

GRADING PHASE NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE, LIMITED DURATIONS BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION. CUT AND FILL SLOPES SHALL NOT EXCEED 3:1.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.

ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND IF APPLICABLE UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEAN OUT OF THE POND WHEN IT REACHES ONE THIRD OF THE DEPTH OF THE BASIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

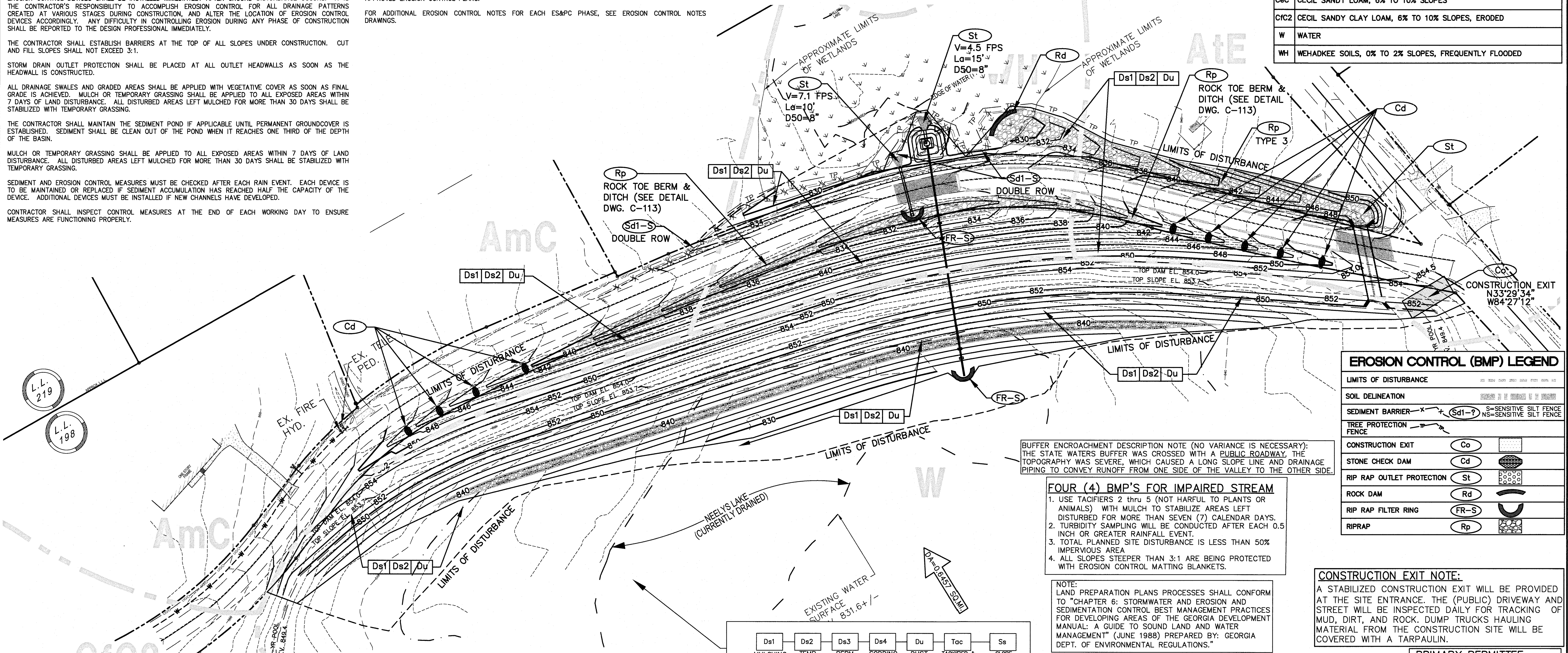
FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

FOR ADDITIONAL EROSION CONTROL NOTES FOR EACH ES&PC PHASE, SEE EROSION CONTROL NOTES DRAWINGS.

COPYRIGHT © 2020, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED



SOILS LEGEND	
AmC	APPLING SANDY LOAM, 6% TO 10% SLOPES
AtE	ASHLAR SANDY LOAM, VERY ROCKY, 10% TO 25% SLOPES
CeC	CECIL SANDY LOAM, 6% TO 10% SLOPES
CfC2	CECIL SANDY CLAY LOAM, 6% TO 10% SLOPES, ERODED
W	WATER
WH	WEHADKEE SOILS, 0% TO 2% SLOPES, FREQUENTLY FLOODED



EROSION CONTROL (BMP) LEGEND	
LIMITS OF DISTURBANCE	
SOIL DELINEATION	
SEDIMENT BARRIER	Sd1-S SENSITIVE SILT FENCE NS-SENSITIVE SILT FENCE
TREE PROTECTION FENCE	
CONSTRUCTION EXIT	Co
STONE CHECK DAM	Cd
RIP RAP OUTLET PROTECTION	St
ROCK DAM	Rd
RIP RAP FILTER RING	FR-S
RIPRAP	Rp

BUFFER ENCROACHMENT DESCRIPTION NOTE (NO VARIANCE IS NECESSARY):
THE STATE WATERS BUFFER WAS CROSSED WITH A PUBLIC ROADWAY. THE TOPOGRAPHY WAS SEVERE, WHICH CAUSED A LONG SLOPE LINE AND DRAINAGE PIPING TO CONVEY RUNOFF FROM ONE SIDE OF THE VALLEY TO THE OTHER SIDE.

- FOUR (4) BMP'S FOR IMPAIRED STREAM**
- USE TACIFIERS 2 thru 5 (NOT HARMFUL TO PLANTS OR ANIMALS) WITH MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS.
 - TURBIDITY SAMPLING WILL BE CONDUCTED AFTER EACH 0.5 INCH OR GREATER RAINFALL EVENT.
 - TOTAL PLANNED SITE DISTURBANCE IS LESS THAN 50% IMPERVIOUS AREA.
 - ALL SLOPES STEEPER THAN 3:1 ARE BEING PROTECTED WITH EROSION CONTROL MATTING BLANKETS.

NOTE:
LAND PREPARATION STORM PROCESSES SHALL CONFORM TO "CHAPTER 6: STORMWATER AND EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES FOR DEVELOPING AREAS OF THE GEORGIA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT" (JUNE 1988) PREPARED BY: GEORGIA DEPT. OF ENVIRONMENTAL REGULATIONS."

CONSTRUCTION EXIT NOTE:
A STABILIZED CONSTRUCTION EXIT WILL BE PROVIDED AT THE SITE ENTRANCE. THE (PUBLIC) DRIVEWAY AND STREET WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, AND ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

NOTE: NO WASTE DISPOSAL OR PETROLEUM STORAGE IS PERMITTED ON SITE. ALL WASTE DISPOSAL & PETROLEUM STORAGE TO BE OFF SITE. SEE NOTE 7 IN THE ES&PC NOTES FOR SPILL CLEANUP AND CONTROL PRACTICES.

NOTE: ONLY USE TACIFIERS 2 thru 5 THAT ARE NOT HARMFUL TO PLANTS, ANIMALS OR AQUATIC LIFE AND ARE WILL NOT REDUCE INFILTRATION RATE; AS A BONDING AGENT TO THE-DOWN FOR SOIL, COMPOST, SEED, HAY OR MULCH WITH OTHER SLURRY MATERIALS TO FORM A HOMOGENOUS SLURRY.

ALL WETLANDS WITHIN THE SITE HAVE BEEN DELINEATED

NOTE: THE CONTRACTOR SHALL INSTALL A DOUBLE ROW OF SILT FENCE TYPE SENSITIVE NEAR WETLANDS AND STATE AND/OR COUNTY WATER BUFFERS.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTE: AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

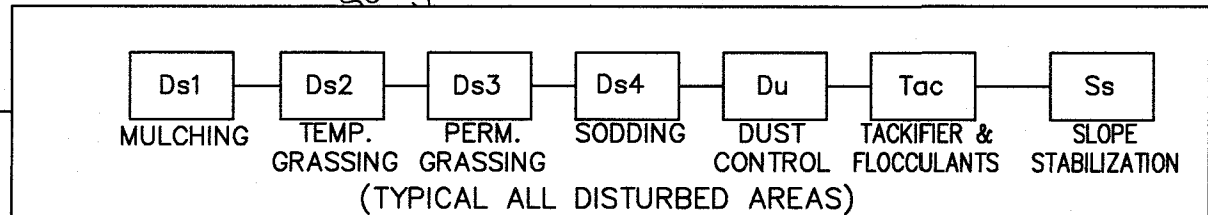
NOTE: THE CRITICAL AREA OF THIS SITE IS AN UNNAMED CREEK LOCATED ON AND TO THE N.E. OF THE SITE. ROCK DAMS AND DOUBLE ROW SILT FENCE WILL BE UTILIZED TO PREVENT SEDIMENT LEAVING THE WORK AREA AND ENTERING THE STREAM.

NOTE: THE UNNAMED TRIBUTARY IS NOT LISTED AS IMPAIRED ON THE LATEST 303(d) LIST ON GA EPD'S 2014 INTEGRATED LIST. THE ETOWAH RIVER IS TIER 1 WITH A TMDL COMPL. CHL A APRIL 2013.

STATE WATERS EXIST WITHIN 200 FEET OF THE SITE. THE RECEIVING WATERS FROM THIS SITE IS A TRIBUTARY OF THE MOURNING CREEK.

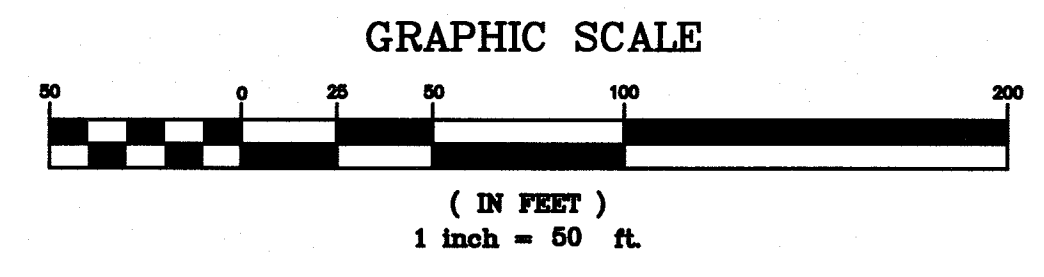
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

NOTE: WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.



NOTE: CONCRETE WASH-DOWN OF EQUIPMENT WILL BE PERMITTED ON-SITE IN AN APPROVED PREFABRICATED BASIN, AT A LOCATION APPROVED BY THE OWNER. BASIN TO BE CLEANED OUT DAILY.

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES
AUG 17 2023
Cull Shills
Environmental Protection Division
Site Dams Program



THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



SCALE: 1"=50'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR	LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE:	12/07/23

**KOZISEK LAKE
ES&PC
INTERMEDIATE PLAN
FAYETTE COUNTY**

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200
DRAWING NUMBER **39022-C-203**
REV. NO. **0**

5/26/2023

FINAL PHASE NOTES:

THE CONTRACTOR SHALL MAINTAIN THE STORM STRUCTURE SEDIMENT COLLECTION DEVICES IF APPLICABLE UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF EACH DEVICE WHEN IT REACHES ONE THIRD OF THE DEPTH OF THE DEVICE, OR AS DIRECTED BY THE DEVICE MANUFACTURER.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED.

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

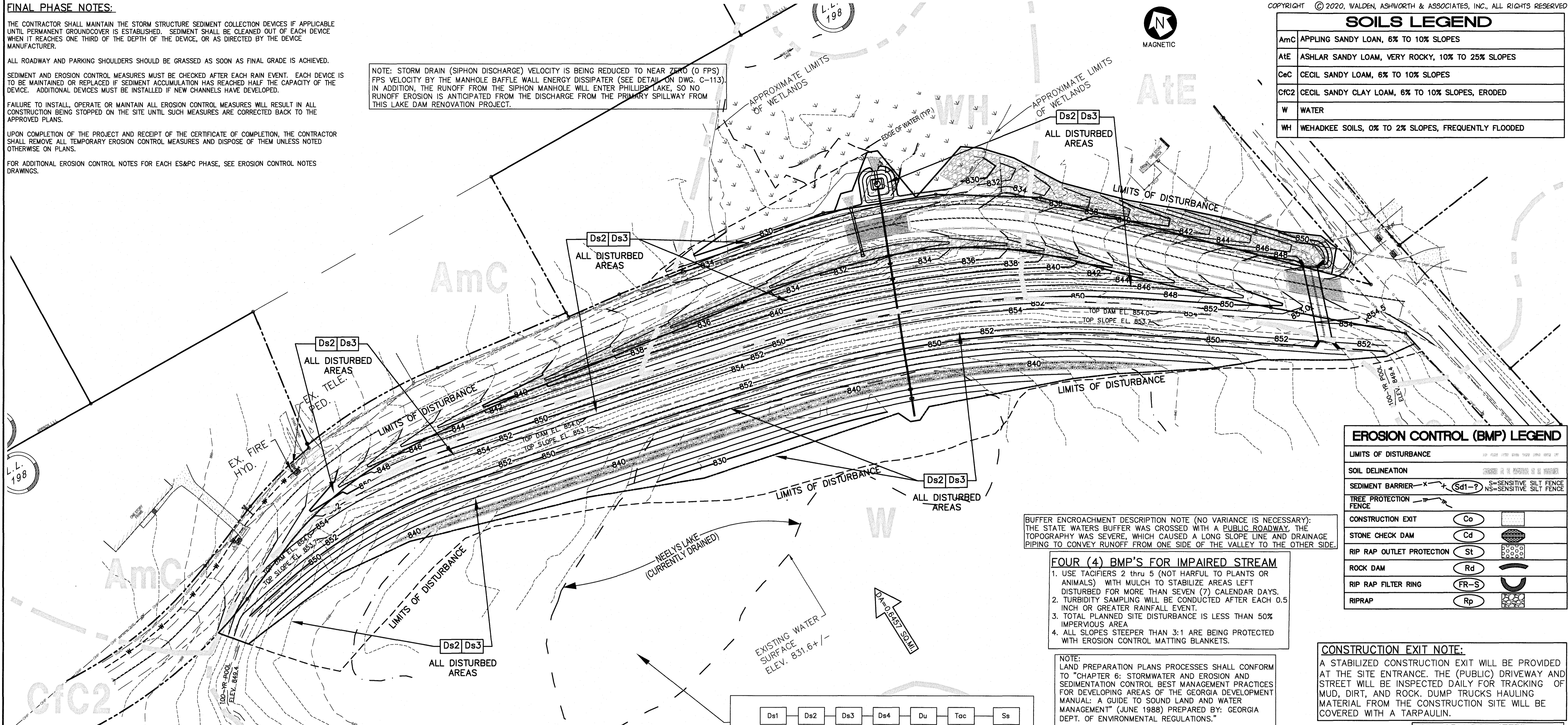
FOR ADDITIONAL EROSION CONTROL NOTES FOR EACH ES&PC PHASE, SEE EROSION CONTROL NOTES DRAWINGS.

NOTE: STORM DRAIN (SIPHON DISCHARGE) VELOCITY IS BEING REDUCED TO NEAR ZERO (0 FPS) FPS VELOCITY BY THE MANHOLE BAFFLE WALL ENERGY DISSIPATER (SEE DETAIL ON DWG. C-113). IN ADDITION, THE RUNOFF FROM THE SIPHON MANHOLE WILL ENTER PHILLIPS LAKE, SO NO RUNOFF EROSION IS ANTICIPATED FROM THE DISCHARGE FROM THE PRIMARY SPILLWAY FROM THIS LAKE DAM RENOVATION PROJECT.

COPYRIGHT © 2020, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

SOILS LEGEND

AmC	APPLING SANDY LOAM, 6% TO 10% SLOPES
Ate	ASHLAR SANDY LOAM, VERY ROCKY, 10% TO 25% SLOPES
CeC	CECIL SANDY LOAM, 6% TO 10% SLOPES
CfC2	CECIL SANDY CLAY LOAM, 6% TO 10% SLOPES, ERODED
W	WATER
WH	WEHADKEE SOILS, 0% TO 2% SLOPES, FREQUENTLY FLOODED



EROSION CONTROL (BMP) LEGEND

LIMITS OF DISTURBANCE	---
SOIL DELINEATION	---
SEDIMENT BARRIER	Sd1-?
TREE PROTECTION FENCE	---
CONSTRUCTION EXIT	Co
STONE CHECK DAM	Cd
RIP RAP OUTLET PROTECTION	St
ROCK DAM	Rd
RIP RAP FILTER RING	FR-S
RIPRAP	Rp

BUFFER ENCROACHMENT DESCRIPTION NOTE (NO VARIANCE IS NECESSARY): THE STATE WATERS BUFFER WAS CROSSED WITH A PUBLIC ROADWAY, THE TOPOGRAPHY WAS SEVERE, WHICH CAUSED A LONG SLOPE LINE AND DRAINAGE PIPING TO CONVEY RUNOFF FROM ONE SIDE OF THE VALLEY TO THE OTHER SIDE.

FOUR (4) BMP'S FOR IMPAIRED STREAM

1. USE TACIFIERS 2 thru 5 (NOT HARMFUL TO PLANTS OR ANIMALS) WITH MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS.
2. TURBIDITY SAMPLING WILL BE CONDUCTED AFTER EACH 0.5 INCH OR GREATER RAINFALL EVENT.
3. TOTAL PLANNED SITE DISTURBANCE IS LESS THAN 50% IMPERVIOUS AREA
4. ALL SLOPES STEEPER THAN 3:1 ARE BEING PROTECTED WITH EROSION CONTROL MATTING BLANKETS.

NOTE: LAND PREPARATION PLANS PROCESSES SHALL CONFORM TO "CHAPTER 6: STORMWATER AND EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES FOR DEVELOPING AREAS OF THE GEORGIA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT" (JUNE 1988) PREPARED BY: GEORGIA DEPT. OF ENVIRONMENTAL REGULATIONS."

CONSTRUCTION EXIT NOTE:

A STABILIZED CONSTRUCTION EXIT WILL BE PROVIDED AT THE SITE ENTRANCE. THE (PUBLIC) DRIVEWAY AND STREET WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, AND ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

PRIMARY PERMITTEE

OWNER:
FAYETTE COUNTY BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

24 HR. CONTACT PERSON

PHIL MALLON
(770) 313-9855



RELEASED FOR CONSTRUCTION

BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

NOTE: NO WASTE DISPOSAL OR PETROLEUM STORAGE IS PERMITTED ON SITE. ALL WASTE DISPOSAL & PETROLEUM STORAGE TO BE OFF SITE. SEE NOTE 7 IN THE ES&PC NOTES FOR SPILL CLEANUP AND CONTROL PRACTICES.

NOTE: ONLY USE TACIFIERS 2 thru 5 THAT ARE NOT HARMFUL TO PLANTS, ANIMALS OR AQUATIC LIFE AND ARE WILL NOT REDUCE INFILTRATION RATE; AS A BONDING AGENT TO TIE-DOWN FOR SOIL, COMPOST, SEED, HAY OR MULCH WITH OTHER SLURRY MATERIALS TO FORM A HOMOGENOUS SLURRY.

ALL WETLANDS WITHIN THE SITE HAVE BEEN DELINEATED

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NOTE: THE CONTRACTOR SHALL INSTALL A DOUBLE ROW OF SILT FENCE TYPE SENSITIVE NEAR WETLANDS AND STATE AND/OR COUNTY WATER BUFFERS.

NOTE: AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

NOTE: THE CRITICAL AREA OF THIS SITE IS AN UNNAMED CREEK LOCATED ON AND TO THE N.E. OF THE SITE. ROCK DAMS AND DOUBLE ROW SILT FENCES WILL BE UTILIZED TO PREVENT SEDIMENT LEAVING THE WORK AREA AND ENTERING THE STREAM.

NOTE: ALL NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50' UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

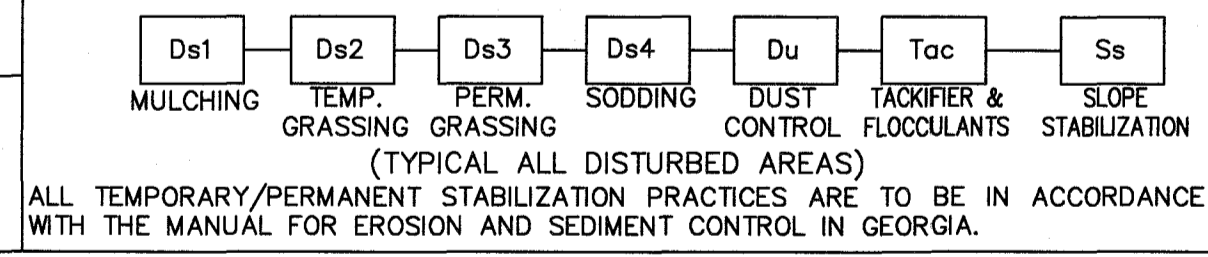
NOTE: THE UNNAMED TRIBUTARY IS NOT LISTED AS IMPAIRED ON THE LATEST 303(d) LIST ON GA EPD'S 2014 INTEGRATED LIST. THE ETOWAH RIVER IS TIER 1 WITH A TMDL COMPL. CHL A APRIL 2013.

NOTE: WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

STATE WATERS EXIST WITHIN 200 FEET OF THE SITE. THE RECEIVING WATERS FROM THIS SITE IS A TRIBUTARY OF THE MOURNING CREEK.

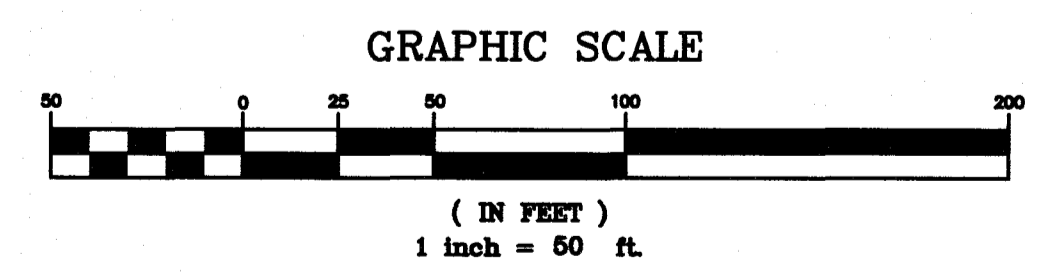
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

NOTE: CONCRETE WASH-DOWN OF EQUIPMENT WILL BE PERMITTED ON-SITE IN AN APPROVED PREFABRICATED BASIN, AT A LOCATION APPROVED BY THE OWNER. BASIN TO BE CLEANED OUT DAILY.



APPROVED
STATE OF GEORGIA
DEPT. OF NATURAL RESOURCES

AUG 17 2023
Cult Shelt
Environmental Protection Division
Safe Dams Program



THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

SCALE: 1"=50'	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024
JASON RAPPLEAN, PE, EOR	LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE:	12/07/23

**KOZISEK LAKE
ES&PC
FINAL PLAN
FAYETTE COUNTY**

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956 - 7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200
DRAWING NUMBER **39022-C-204**
REV. NO. 0

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE



5/26/2023

SPECIES	RATES/SPACING		PLANTING DATES		REMARKS
	1000 FT ²	ACRES	MTS. -L- STONE	PIEDMONT COASTAL	
BAHIA WILMINGTON (PASPALUM NOTATUM) WITH OTHER PERENNIALS	1.4 LB	60 LBS	1/1 - 12/31	1/1 - 12/31	166,000 SEED PER POUND. LOW GROWING SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH WEEPING LOVEGRASS.
BERMUDA, COMMON (CYNODON DACTYLON) UNMULCHED SEED WITH OTHER PERENNIALS	0.2 LB	10 LBS	5/1 - 6/30	2/15 - 6/30	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (CYNODON DACTYLON) UNMULCHED SEED WITH OTHER PERENNIALS	0.2 LB	10 LBS	10/1 - 2/28	11/1 - 1/31	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
CENTPEDEE (EREMOCHLOA OPHIUROIDES)	BLOCK SOD ONLY		4/1 - 6/30	4/1 - 6/30	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
FESCUE TALL (FESTUCA ARUNDINACEA) ALONE WITH OTHER PERENNIALS	1.1 LB	50 LBS	8/1 - 10/31	3/1 - 4/15	227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHT SOILS. MIX CROWNVEATCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.

M-L REPRESENTS THE MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRAS
 P REPRESENTS THE SOUTHERN PIEDMONT MLRA
 C REPRESENTS SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRAS

DEFINITION
 THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

CONDITIONS
 PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDEED AREAS.

GRADING AND SHAPING
 GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.

WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION. CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

SEEDBED PREPARATION
 SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS

- TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 8 INCHES; ALLEVATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
- TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
- ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS
 1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING.
 2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
 3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

- DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
- WOOD CHIPS OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
- ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 1:1 OR STEEPER.
- SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF THREE INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
- WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
- BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH
 STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

LIME AND FERTILIZER
 AGRICULTURAL LIME, WITHIN THE GA DEPT OF AGRICULTURE SPECS, IS REQUIRED AT A RATE OF ONE TON TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN 6 MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADD'L LIME IS NOT REQUIRED.

LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE GROUND LIME, WHICH IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50 PERCENT WILL PASS THROUGH A 50-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE. AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES ARE PLANTED. INITIAL FERTILIZATION, NITROGEN, TOP DRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES AS LISTED IN THE TABLES. 10/10/10 FERTILIZER PELLETS RATES SHALL BE APPLIED AT 500-700 LBS PER ACRE, OR A SOIL TEST MAY BE CONDUCTED.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

- DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
- WOOD CHIPS OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
- ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 1:1 OR STEEPER.
- SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF THREE INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
- WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
- BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH
 STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

LIME AND FERTILIZER
 AGRICULTURAL LIME, WITHIN THE GA DEPT OF AGRICULTURE SPECS, IS REQUIRED AT A RATE OF ONE TON TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN 6 MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADD'L LIME IS NOT REQUIRED.

LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE GROUND LIME, WHICH IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50 PERCENT WILL PASS THROUGH A 50-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE. AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES ARE PLANTED. INITIAL FERTILIZATION, NITROGEN, TOP DRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES AS LISTED IN THE TABLES. 10/10/10 FERTILIZER PELLETS RATES SHALL BE APPLIED AT 500-700 LBS PER ACRE, OR A SOIL TEST MAY BE CONDUCTED.

ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

- EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT.
- THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENOUS MIXTURE SATISFACTORY TO SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE SS-1H OR CSS-1H EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH.
- CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERWAYS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION.
- HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE FLOWED INTO THE SOIL.
- SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GOOT SHALL BE USED WITH ASPHALT OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO TACKIFIERS AND BINDERS.
- RYE AND WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE.
- PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

IRRIGATION
 IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

LIME AND FERTILIZER APPLICATION
 WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULATE (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INOCULANT, IF NEEDED, SHALL BE MIXED WITH SEED PRIOR TO BEING PLACED INTO THE SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.

SPECIES	RATES/SPACING		PLANTING DATES		REMARKS	
	1000 FT ²	ACRES	MTS. -L- STONE	PIEDMONT COASTAL		
BARLEY (HORDEUM VULGARE) ALONE IN MIXTURES	3.3 LBS	3 BU (144 LBS)	8/15-11/15	8/15-12/15	14,000 SEED PER POUND. WINTERHARDY. USE ON PRODUCTIVE SOILS.	
MILLET, BROWNTOP (Panicum fasciculatum) ALONE IN MIXTURES	0.9 LB	40 LBS	4/1-7/30	4/1-7/20	137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES	
MILLET, PEARL (Pennisetum glaucum) ALONE	1.1 LB	50 LBS	5/1-7/31	4/15-8/31	4/1-8/31	DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED
OATS (Avena sativa) ALONE IN MIXTURES	2.9 LB	4 BU (128 LBS)	9/1-11/30	9/1-11/30	13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.	
RYE (Secale cereale) ALONE IN MIXTURES	3.9 LB	3 BU (168 LBS)	7/15-11/30	8/15-12/31	18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.	
RYEGRASS, ANNUAL (Lolium temulentum) ALONE	0.9 LB	40 LBS	8/1-4/30	8/1-4/15	8/15-3/31	227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND
SUDANGRASS (Sorghum sudanese) ALONE	1.4 LB	60 LBS	4/1-8/31	4/1-8/31	3/1-7/31	55,000 SEED PER POUND. GOOD ON DROUGHTY SITES. NOT
TRITICALE (X-Triticosecalle) ALONE IN MIXTURES	3.3 LB	3 BU (144 LBS)		9/15-1/31	USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.	
WHEAT (Triticum aestivum) ALONE IN MIXTURES	4.1 LB	3 BU (180 LBS)	9/1-12/31	9/1-12/31	9/15-1/31	15,000 SEED PER POUND. WINTERHARDY.

GRASSING TABLE

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDEED AREAS.

CONDITIONS
 TEMPORARY GRASSING INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED.

- TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWD OUT PERENNIALS IF SEEDING TOO HEAVILY.
- REDUCE SEEDING RATES BY 50% WHEN DRILLED.
- PLS IS AN ABBREVIATION FOR PURE LIME SEED.
- M-L REPRESENTS THE MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRAS
 P REPRESENTS THE SOUTHERN PIEDMONT MLRA
 C REPRESENTS SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRAS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

SEEDBED PREPARATION
 1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.
 2. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER
 AGRICULTURAL LIME, WITHIN THE GA DEPT OF AGRICULTURE SPECS, IS REQUIRED AT A RATE OF ONE TON TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN 6 MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADD'L LIME IS NOT REQUIRED.

LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE GROUND LIME, WHICH IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50 PERCENT WILL PASS THROUGH A 50-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE. AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES ARE PLANTED. INITIAL FERTILIZATION, NITROGEN, TOP DRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES AS LISTED IN THE TABLES. 10/10/10 FERTILIZER PELLETS RATES SHALL BE APPLIED AT 500-700 LBS PER ACRE, OR A SOIL TEST MAY BE CONDUCTED.

LIME AND FERTILIZER APPLICATION

WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULATE (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INOCULANT, IF NEEDED, SHALL BE MIXED WITH SEED PRIOR TO BEING PLACED INTO THE SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. SEE DS1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

DS3

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS2

DISTURBED AREA STABILIZATION (WITH TEMPORARY VEGETATION)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

Tac

TACKIFIERS

Tackifiers are used as a tie-down for soil, compost, seed, straw, hay or mulch. Tackifiers hydrate in water and readily blend with other slurry materials to form a homogenous slurry. This practice is intended for direct soil surface application to sites where the timely establishment of vegetation may not be feasible or where vegetation cover is absent or inadequate. Such areas include construction areas, where plant residues are inadequate to protect the soil surface and where land disturbing activities prevent the establishment or maintenance of a vegetative cover.

Tac-1 Tacifiers: Synthetic Polymers
 Tac-2 Tacifiers: Organic Polymers
 Tac-3 Tacifiers: Synthetic/Organic Polymers Blends
 Tac-4 Tacifiers: Organic Tacifiers with Synthetic Fibers
 Tac-5 Tacifiers: Synthetic/Organic Blends with Synthetic Fibers
 Tacified areas should be checked after every rain event. Periodic inspections and required maintenance must be provided per manufacturer's recommendations.

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

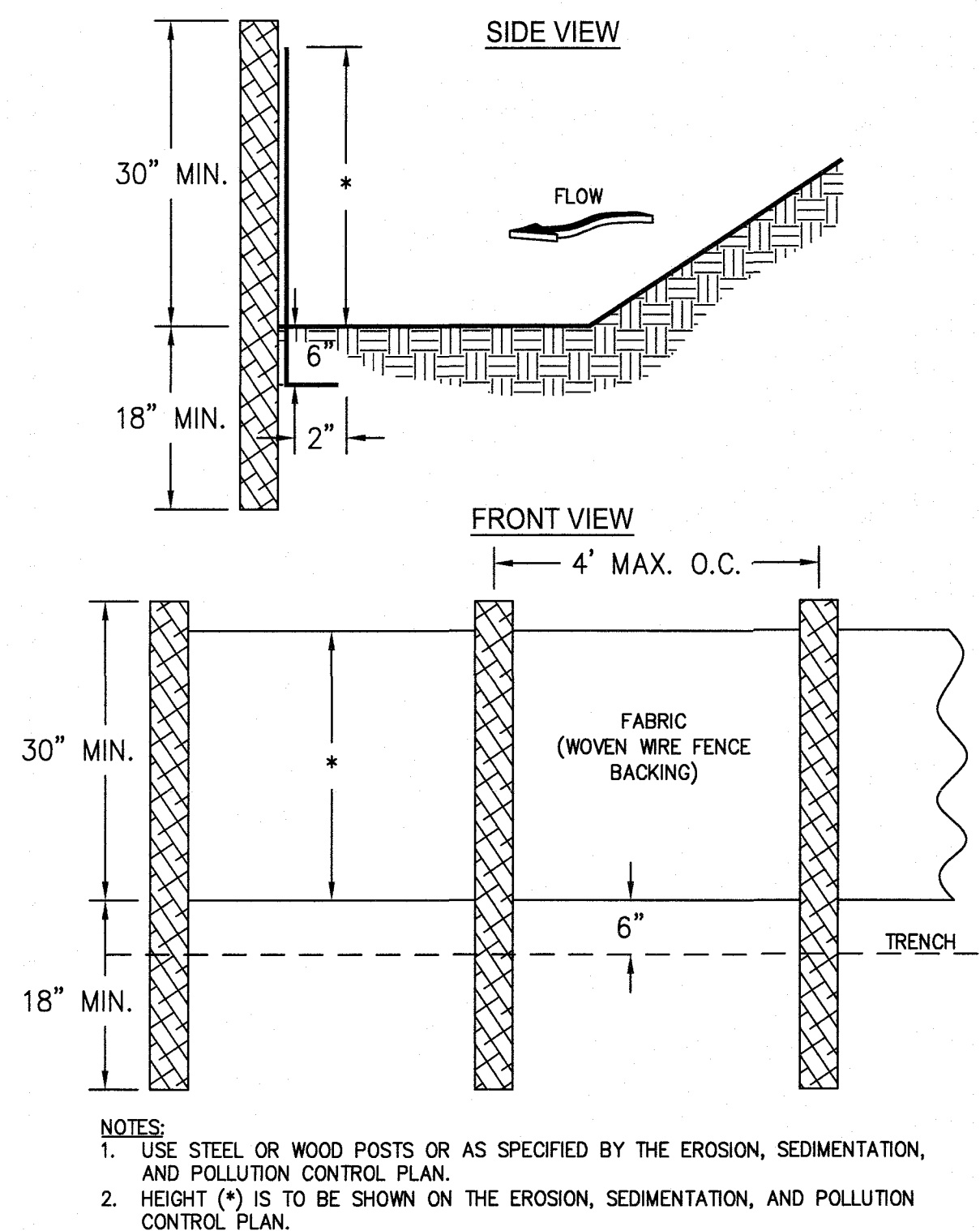
DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

DS1

DISTURBED AREA STABILIZATION (WITH MULCHING)

SILT FENCE - TYPE SENSITIVE



CONSTRUCTION SPECIFICATIONS

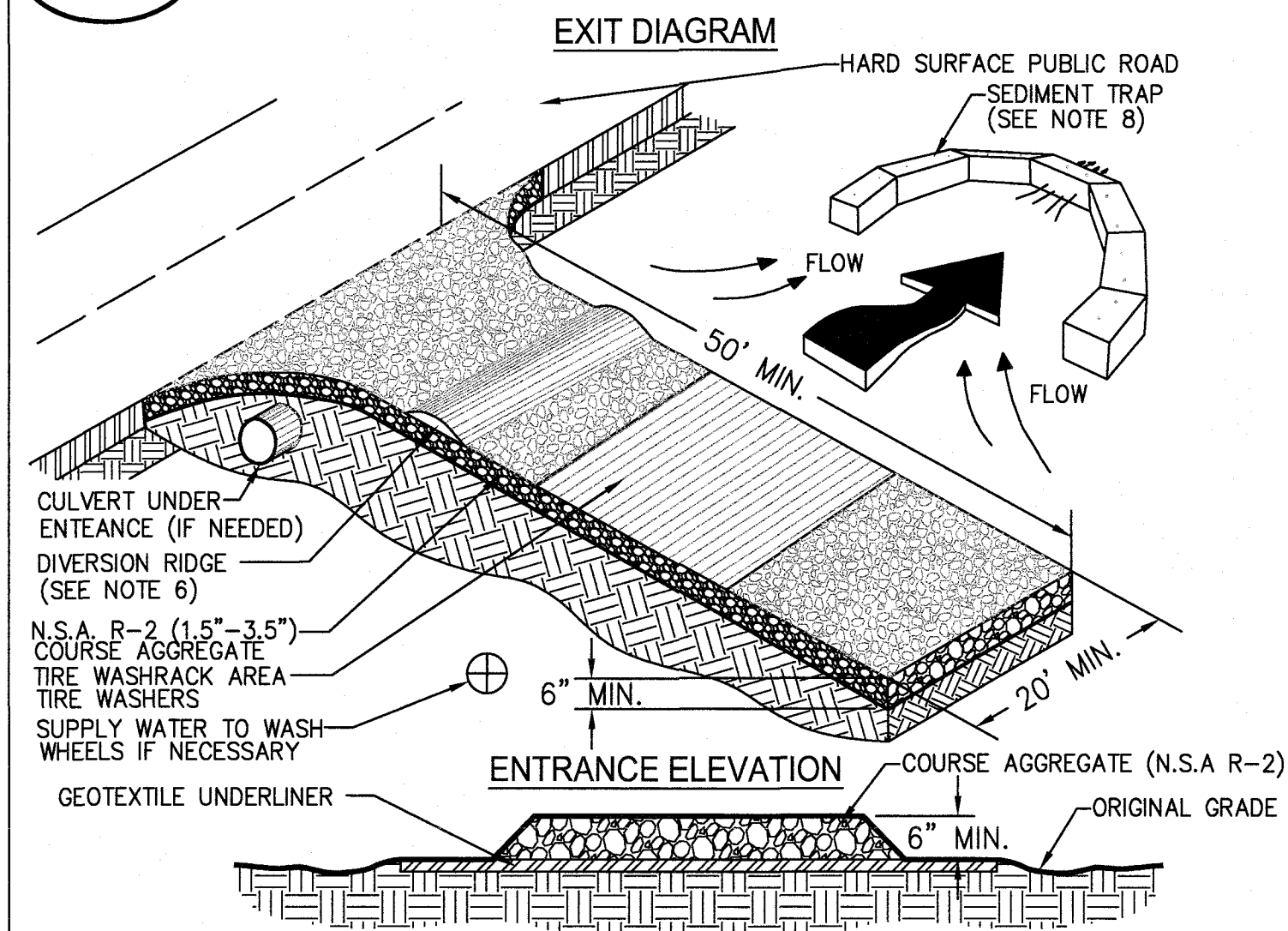
THE MANUFACTURER SHALL HAVE EITHER AN APPROVED COLOR MARK YARN IN THE FABRIC OR LABEL THE FABRICATED SILT FENCE WITH BOTH THE MANUFACTURER AND FABRIC NAME EVERY 100'.
 THE TEMPORARY SILT FENCE SHALL BE INSTALLED ACCORDING TO THIS SPECIFICATION, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. FOR INSTALLATION OF THE FABRIC, SEE FIGURES 6-20.4, 6-20.5, AND 6-20.6 RESPECTIVELY.
 POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT (IF APPLICABLE) WITH REMAINING POSTS SPACED 6 FEET APART FOR TYPE "A" AND "B" SILT FENCES AND 4 FEET APART FOR TYPE "C" SILT FENCE. WHILE TYPE "A" AND "B" SILT FENCES CAN BE USED WITH BOTH WOOD AND STEEL POSTS, ONLY STEEL POSTS SHALL BE USED WITH TYPE "C" SILT FENCE. FOR POST SIZE REQUIREMENTS, SEE TABLE 6-20.3. FASTENERS FOR WOOD POSTS ARE LISTED IN TABLE 6-20.4.

MAINTENANCE

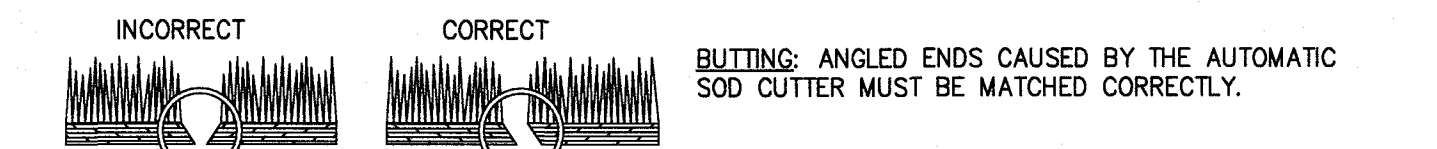
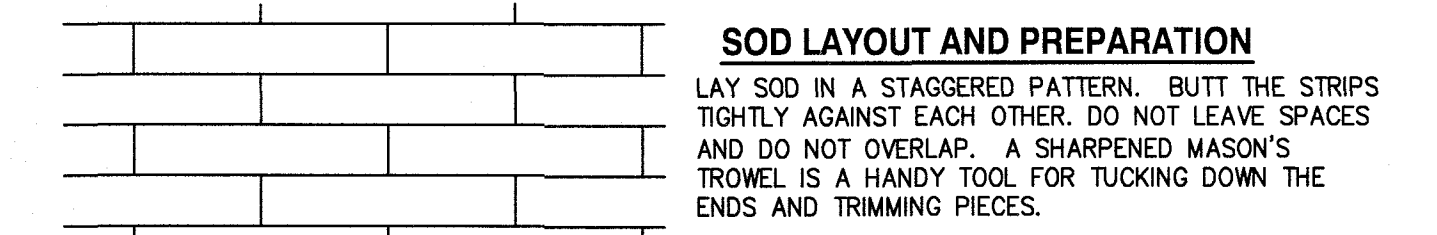
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

POST SIZE TABLE 6-13.3			
	MIN. LENGTH	TYPE OF POST	SIZE OF POST
TYPE NS	4'	SOFT WOOD OAK STEEL	3" DIA. OR 2x4 1.5"x1.5" 1.3 LB/FT MIN.
TYPE S	4'	STEEL	1.3LB/FT MIN.

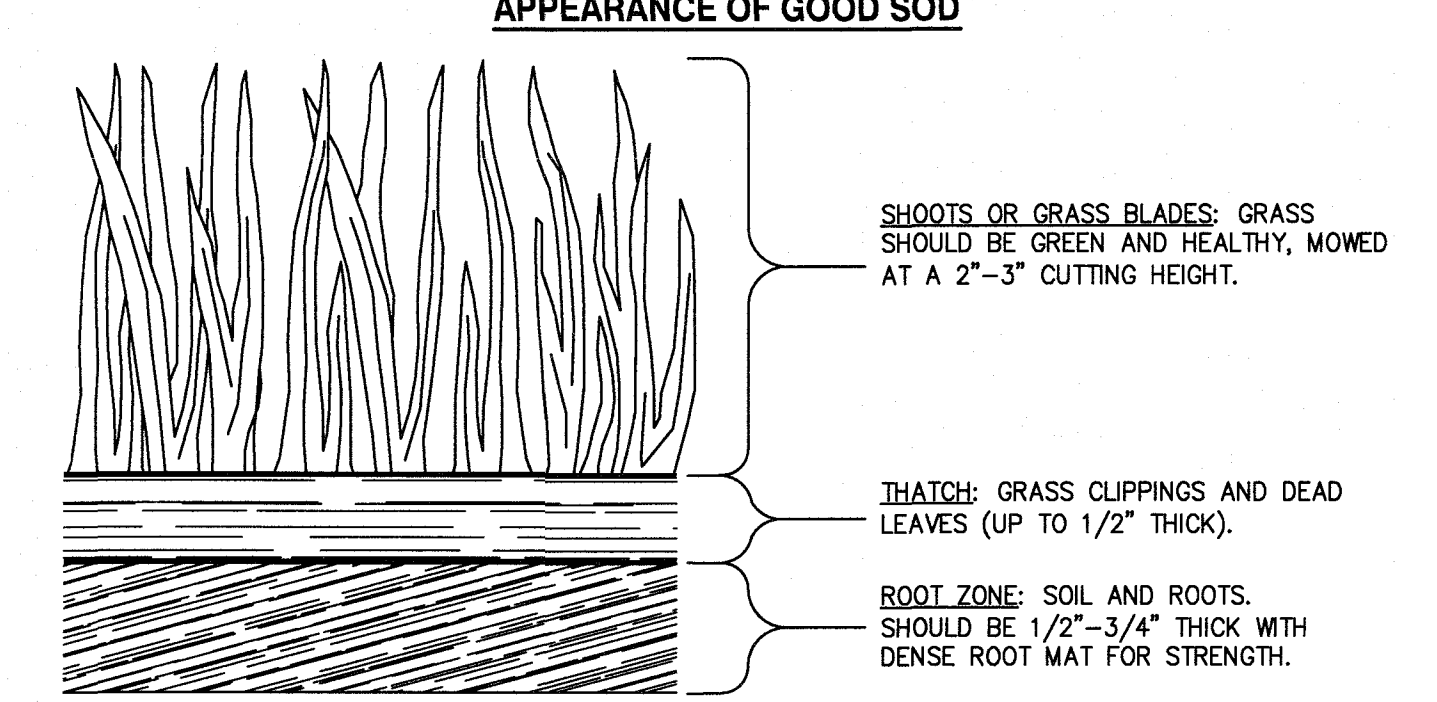
Co CRUSHED STONE CONSTRUCTION EXIT



- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



- ### DIRECTIONS FOR INITIAL MAINTENANCE
- Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
 - Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
 - Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

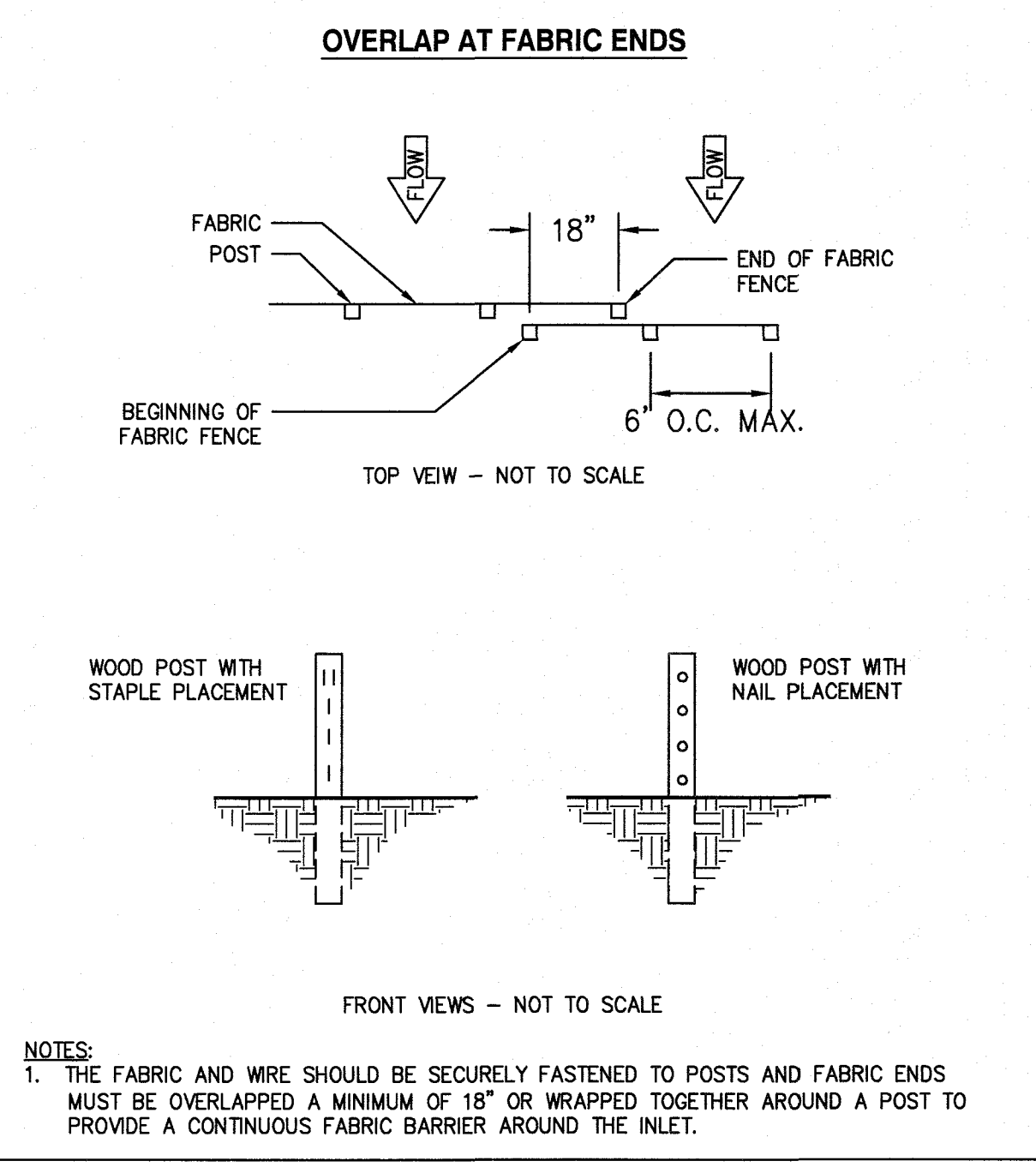


Ds4 DISTURBED AREA STABILIZATION (WITH SOD)

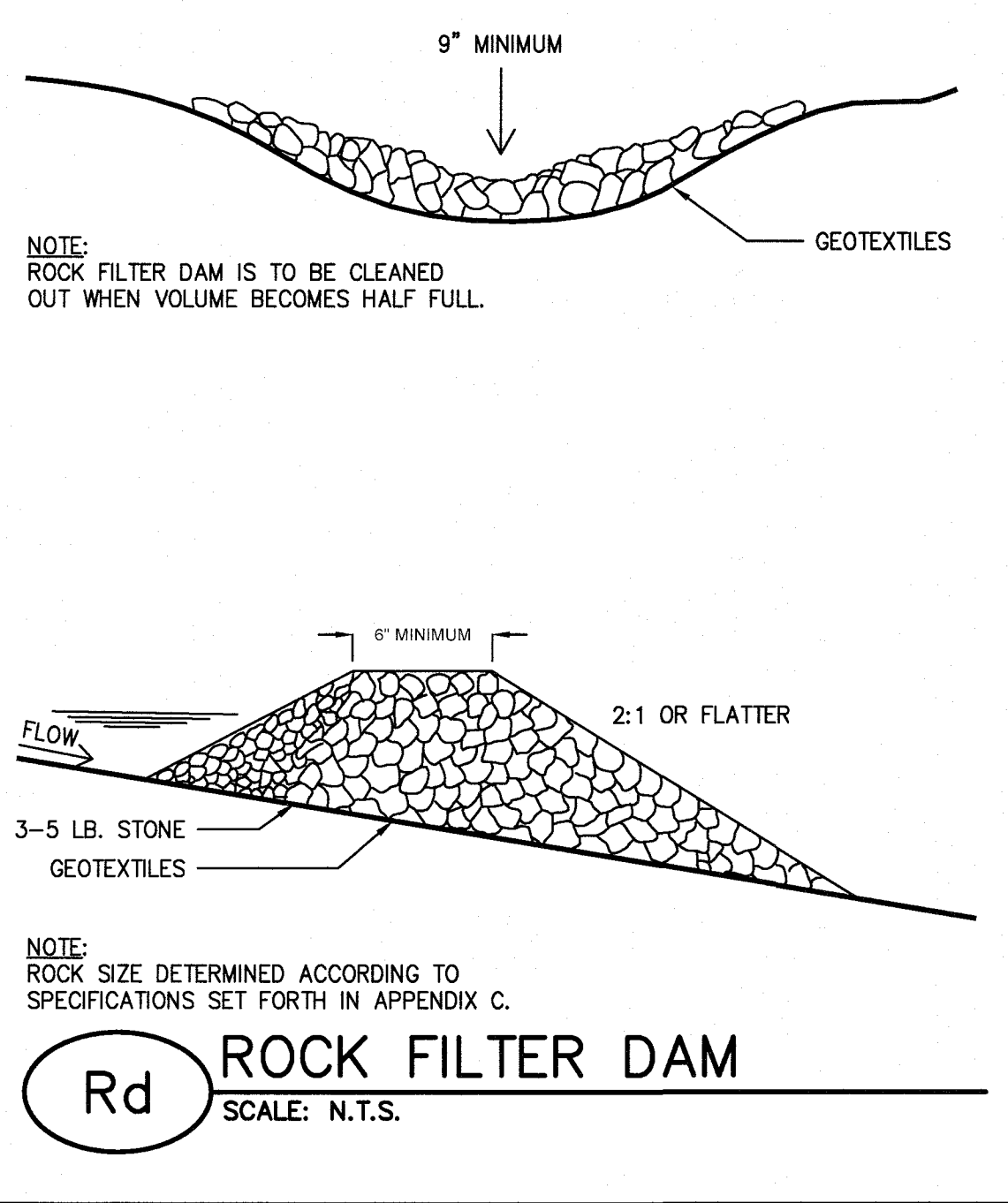
Sd1-S SILT FENCE - TYPE SENSITIVE

SCALE: N.T.S.

FASTENERS FOR SILT FENCES

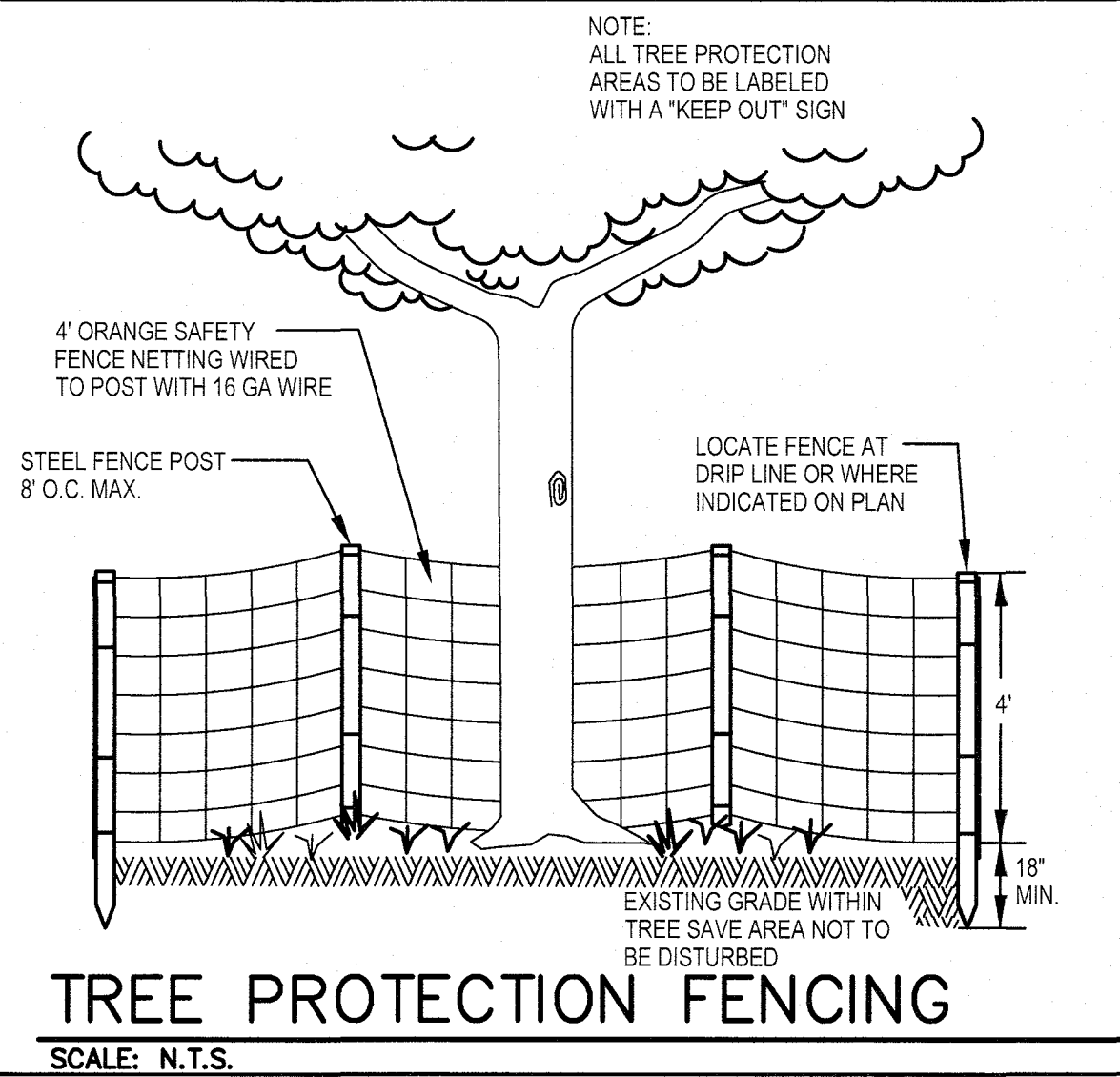


ROCK FILTER DAM



Rd ROCK FILTER DAM

SCALE: N.T.S.

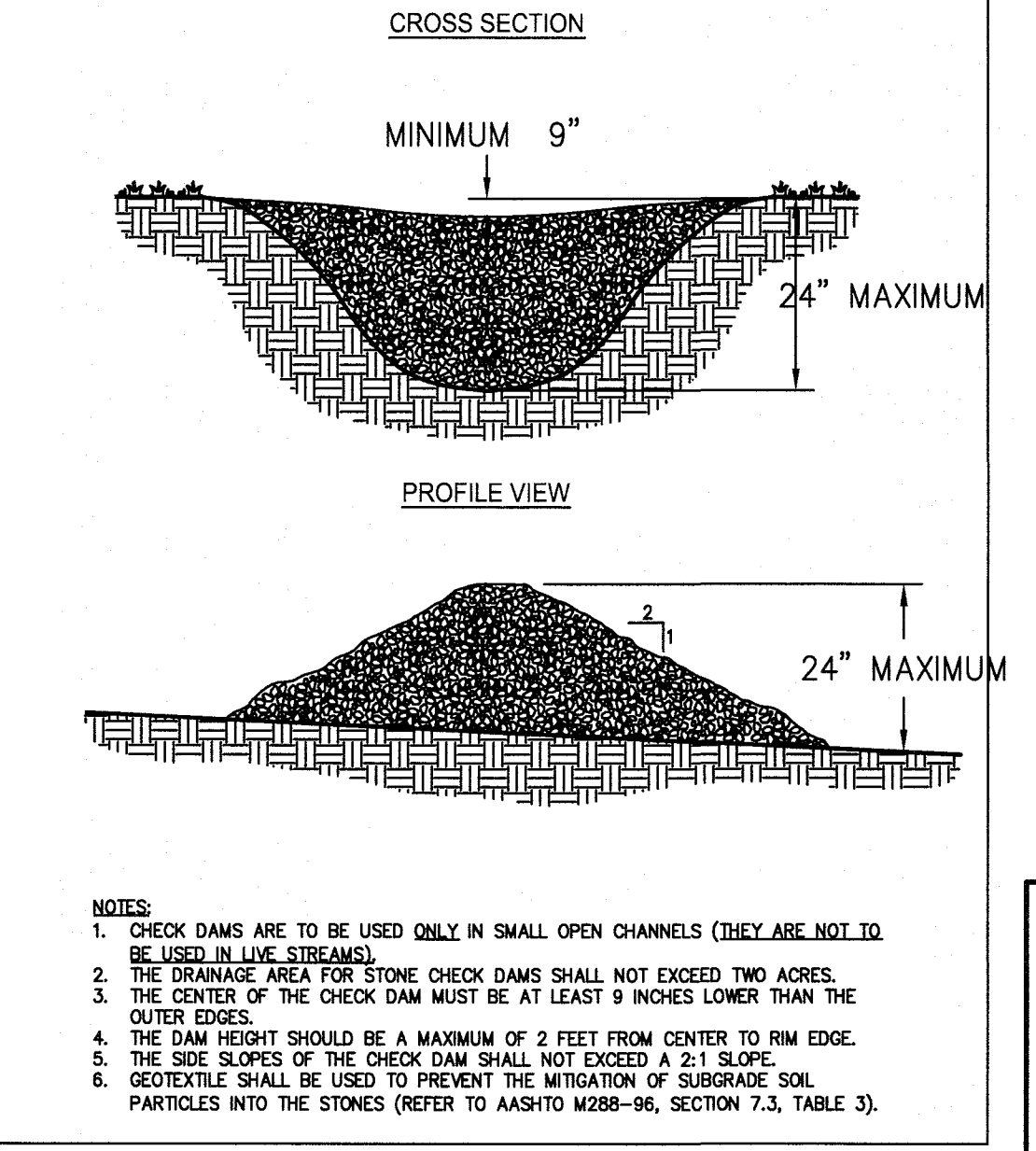


Tree Protection Fencing

SCALE: N.T.S.

APPROVED
 STATE OF GEORGIA
 DEPT OF NATURAL RESOURCES
 AUG 17 2023
 Call Shelby
 Environmental Protection Division
 Safe Dams Program

STONE CHECK DAM



Cd STONE CHECK DAM

SCALE: N.T.S.

PRIMARY PERMITTEE
OWNER:
 FAYETTE COUNTY
 BOARD OF COMMISSIONERS, et al.
 140 STONEWALL AVENUE WEST
 FAYETTEVILLE, GEORGIA 30214
 CONTACT: MR. PHIL MALLON
 PHONE: (770) 320-6010

811
 Know what's below.
 Call before you dig.

24 HR. CONTACT PERSON
 PHIL MALLON
 (770) 313-9855

RELEASED FOR CONSTRUCTION
 BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT FAYETTE COUNTY, GEORGIA.

**KOZISEK LAKE
 ES&PC
 DETAILS**

FAYETTE COUNTY

WALDEN, ASHWORTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 P.O. BOX
 MARIETTA, GEORGIA 30065
 (770) 956 - 7897
 COA: PEF000707 EXP: 06/30/2020

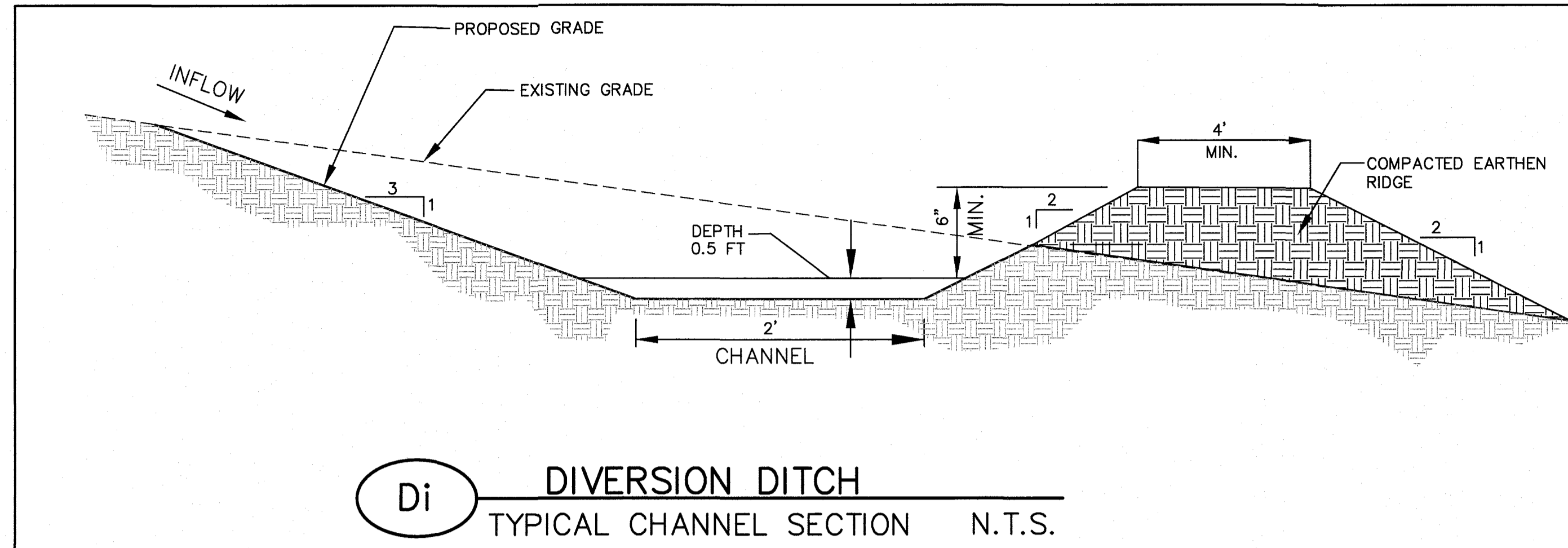
JOB NO. 3902200
 DRAWING NUMBER **39022-C-206**
 REV. NO. **0**

APPROVED
 JASON RAPPLEAN, PE, EOR
 LEVEL 2 CERTIFICATION # 3031
 EXPIRATION DATE: 12/07/23
 5/26/2023

SCALE:	AS SHOWN	DATE
DESIGN BY:	JMH/JCL	12/20
DRAWN BY:	JMH/JCL	12/20
CHECKED BY:	MLW/JR	12/20
COA:	PEF000707	EXP: 06/30/2024

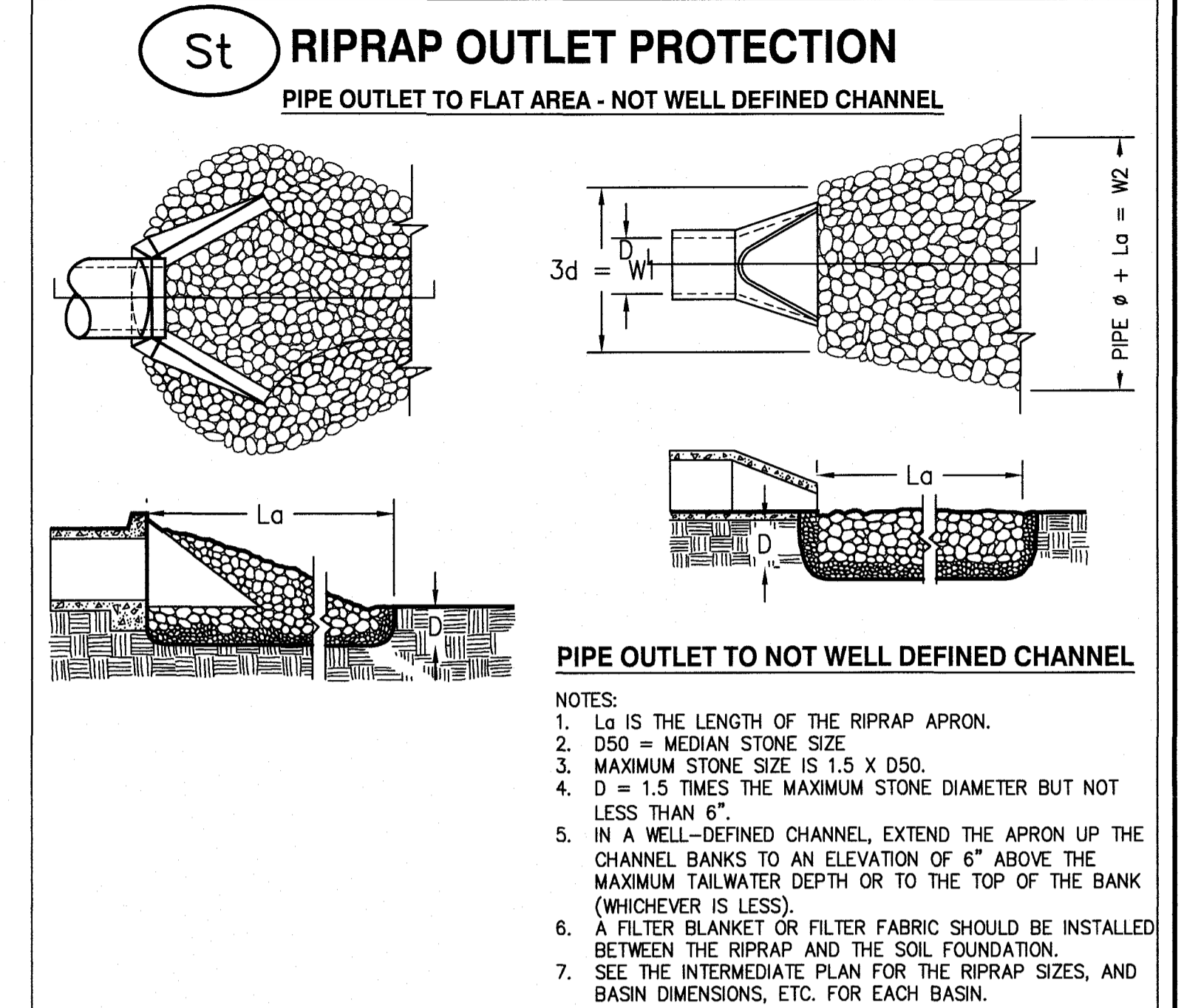
NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE

APPROVED
 07/13/2023
 FAYETTE COUNTY
 ENVIRONMENTAL MANAGEMENT



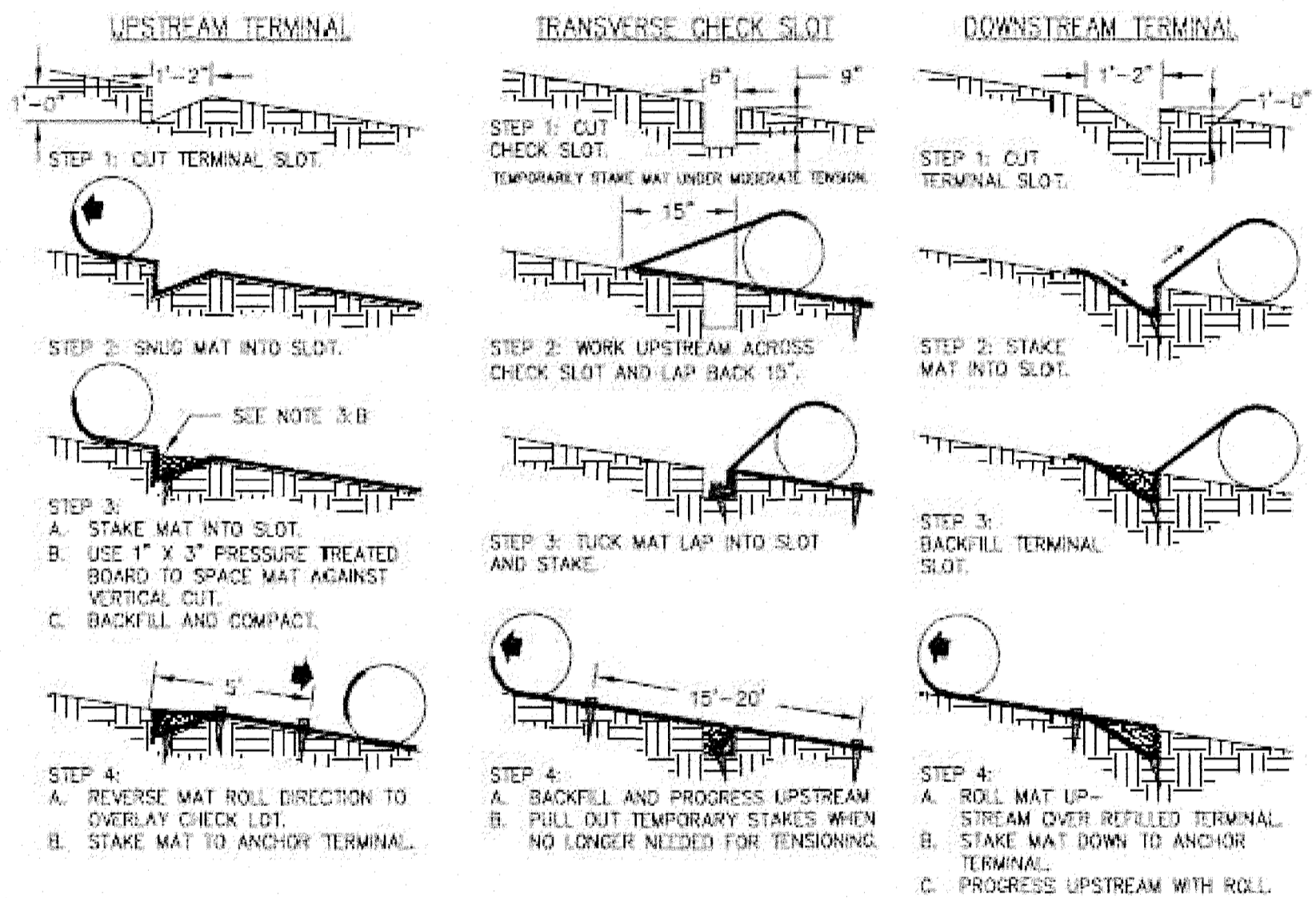
PROGRAM INPUT DATA DIVERSION DITCH	
DESCRIPTION	VALUE
FLOW RATE (CUBIC FEET PER SECOND)	9.0
CHANNEL BOTTOM SLOPE (FEET PER FOOT)	.045
MANNING'S ROUGHNESS COEFFICIENT (n-VALUE)	.027
CHANNEL SIDE SLOPE-LEFT SIDE (HORIZONTAL/VERTICAL)	3.00
CHANNEL SIDE SLOPE-RIGHT SIDE (HORIZONTAL/VERTICAL)	3.00
CHANNEL BOTTOM WIDTH (FEET)	1.0

PROGRAM RESULTS DIVERSION DITCH	
DESCRIPTION	VALUE
DEPTH (FEET)	0.5
FLOW VELOCITY (FEET PER SECOND)	5.4
TOP WIDTH OF FLOW (FEET)	5.0



TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS



SITE PREPERATION: After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installation.

MAINTENANCE: All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

FOR THIS PROJECT: This project shall utilize blankets for all slopes exceeding slopes of 3:1. For slopes along the roadway and behind the townhome units that exceed ten (10') vertical feet in height, extended term blankets shall be used to allow for vegetation to establish on the slopes and fully stabilize them.

- Short-Term** (functional longevity 12 mo.)
- i. Photodegradable**
Straw blankets with a top and bottom side photo degradable net. The maximum size of the mesh should be openings of 1/2" X 1/2". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.
 - ii. Biodegradable**
Straw blanket with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are 6-70 twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.
- Extended-Term** (functional longevity 24 mo.)
- i. Photodegradable**
Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.6 lbs per square yard.
 - ii. Biodegradable**
Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.65 lbs per square yard.
- Long-Term** (functional longevity 36 mo.)
- i. Photodegradable**
Blankets that consist of 100% coconut with a top and bottom side photodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.
 - ii. Biodegradable**
Blankets that consist of 100% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

- NOTES**
- It is the intention of this section to allow interchangeable use of RECPs and HECs for erosion protection on slopes. The project engineer should select the type of erosion control product that best fits the need of the particular site.
 - Site Preparation**
After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installation.
 - MAINTENANCE**
All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

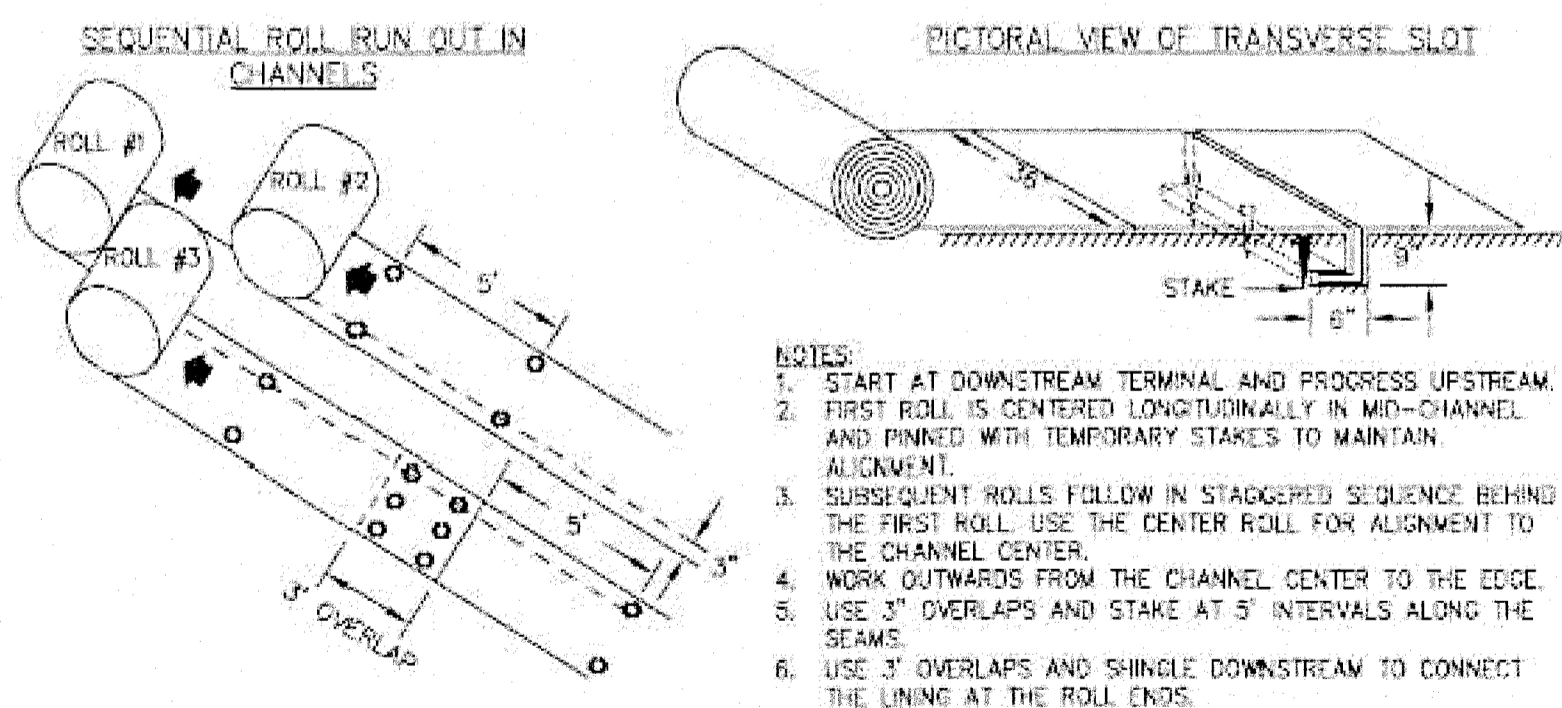


Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Walden Ashworth
Environmental Protection Division
Safe Dams Program

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
40 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

811
Know what's below.
Call before you dig.

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

SCALE: AS SHOWN	DATE
DESIGN BY: JMH/JCL	12/20
DRAWN BY: JMH/JCL	12/20
CHECKED BY: MLW/JR	12/20
COA: PEF000707	EXP: 06/30/2024

**KOZISEK LAKE
ES&PC
DETAILS**

WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARETTA, GEORGIA 30065
(770) 956-7897
COA: PEF000707 EXP: 06/30/2020

FAYETTE COUNTY

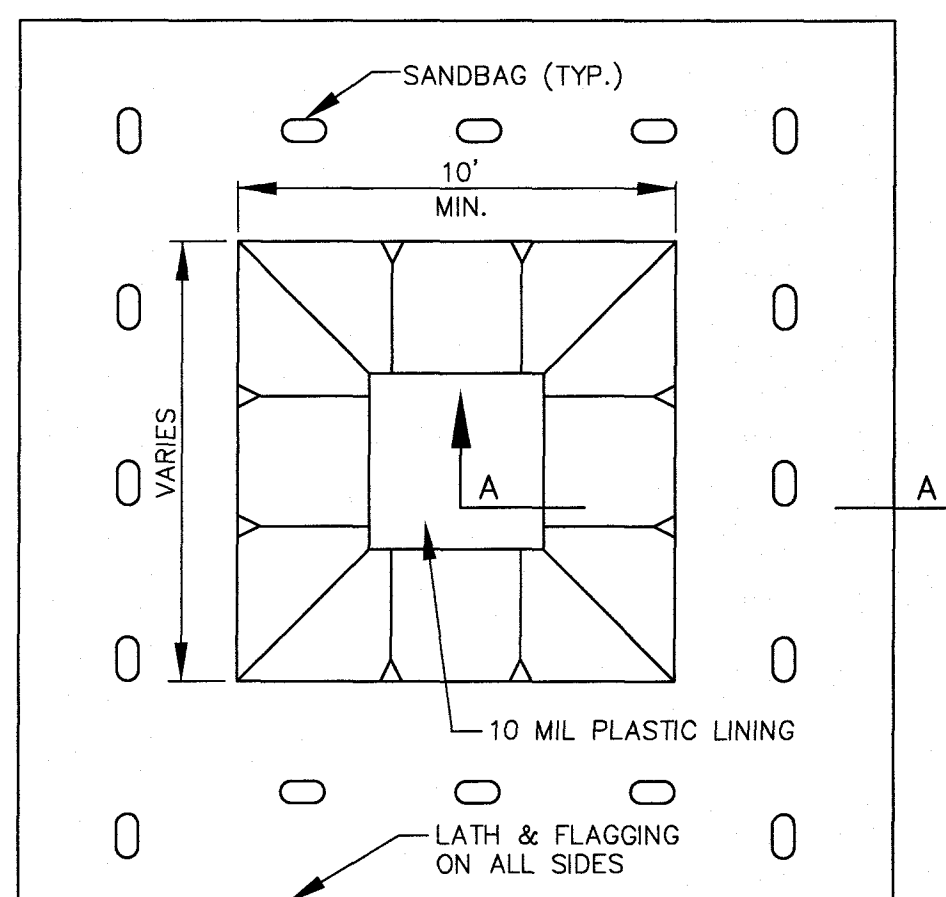
JOB NO. 3902200
DRAWING NUMBER **39022-C-207**
REV. NO. 0



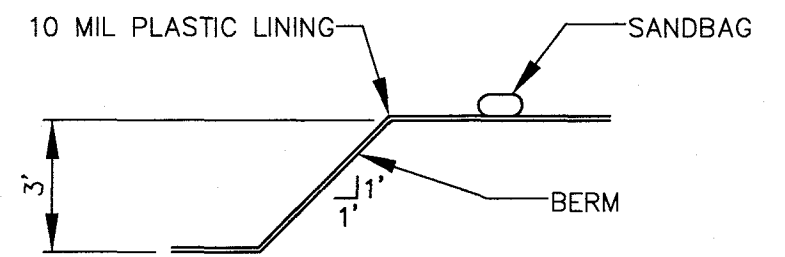
5/26/2023

NO.	REVISIONS	MADE	CHKD.	DATE	NO.	REVISIONS	MADE	CHKD.	DATE

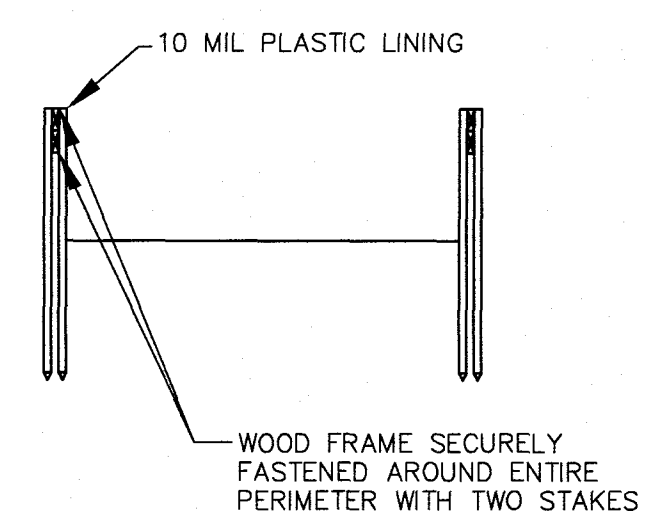
APPROVED
07/13/2023
FAYETTE COUNTY
ENVIRONMENTAL MANAGEMENT



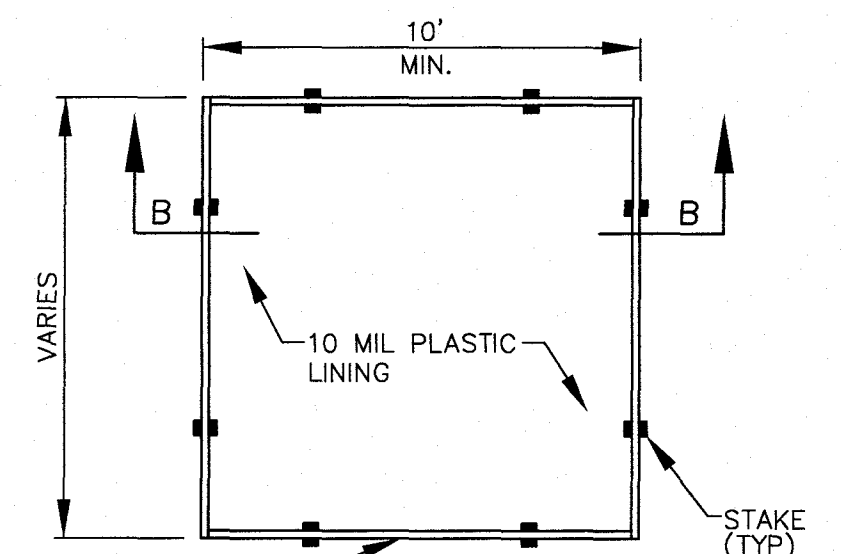
PLAN (BELOW GRADE)
SCALE: 1/4" = 1'



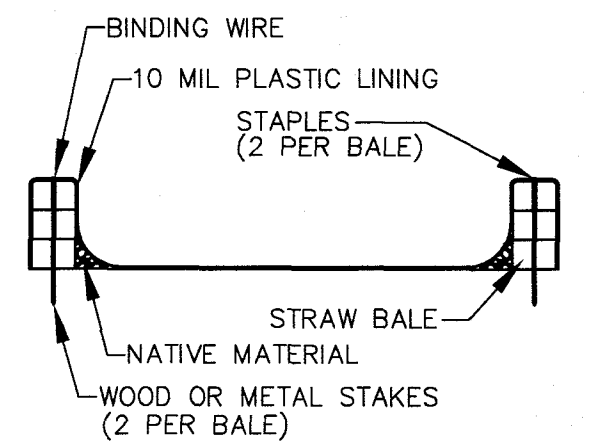
SECTION A-A
SCALE: 1/4" = 1'



SECTION B-B
SCALE: 1/4" = 1'

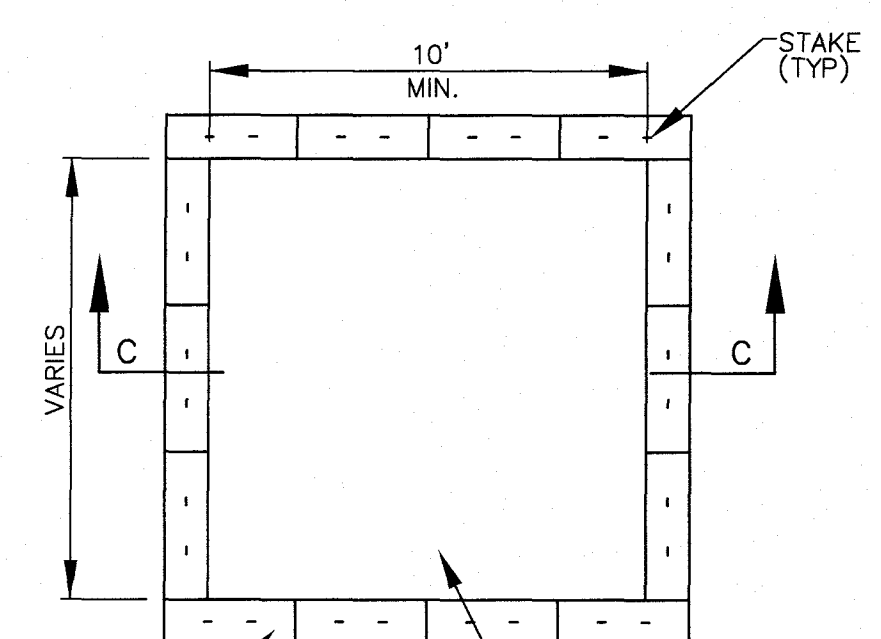


PLAN (ABOVE GRADE)
SCALE: 1/4" = 1'

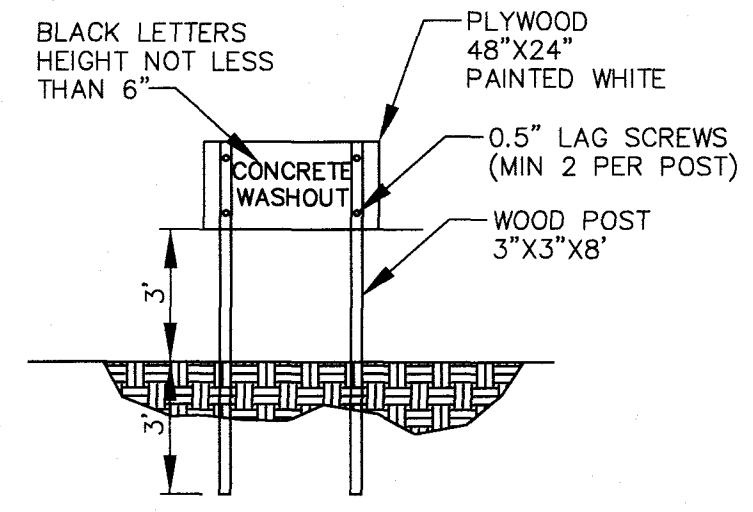


SECTION C-C
SCALE: 1/4" = 1'

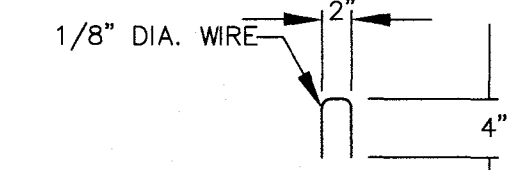
TWO-STACKED
2 X 12 ROUGH
WOOD FRAME



PLAN (ABOVE GRADE W/STRAW BALES)
SCALE: 1/4" = 1'



SIGN DETAIL
SCALE: 1/4" = 1'



STAPLE DETAIL
SCALE: 1" = 1'

- NOTES:**
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT
SCALE: VARIES

APPROVED
STATE OF GEORGIA
DEPT OF NATURAL RESOURCES

AUG 17 2023
Carl Shook
Environmental Protection Division
Safe Dams Program

THE SITE IS LOCATED ON NEELY ROAD IN LAND LOT 198 OF THE 5TH DISTRICT
FAYETTE COUNTY, GEORGIA.

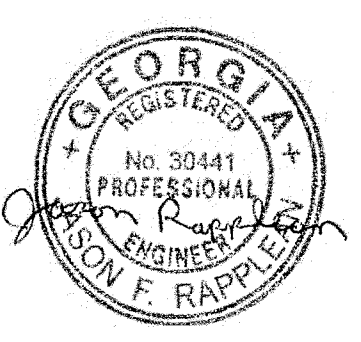
RELEASED FOR CONSTRUCTION
BY: MARTIN L. WALDEN, P.E. DATE: 9-7-21

PRIMARY PERMITTEE
OWNER:
FAYETTE COUNTY
BOARD OF COMMISSIONERS, et al.
140 STONEWALL AVENUE WEST
FAYETTEVILLE, GEORGIA 30214
CONTACT: MR. PHIL MALLON
PHONE: (770) 320-6010

811
Know what's below.
Call before you dig.

24 HR. CONTACT PERSON
PHIL MALLON
(770) 313-9855

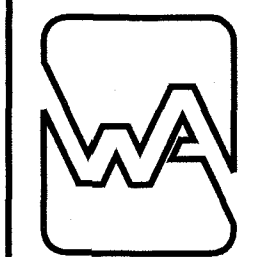
NO.	REVISIONS	MADE	CKD.	DATE	NO.	REVISIONS	MADE	CKD.	DATE



SCALE: AS SHOWN DATE
DESIGN BY: JMH/JCL 12/20
DRAWN BY: JMH/JCL 12/20
CHECKED BY: MLW/JR 12/20
COA: PEF000707 EXP: 06/30/2024
JASON RAPPLEAN, PE, EDR
LEVEL 2 CERTIFICATION # 3031
EXPIRATION DATE: 12/07/23

**KOZISEK LAKE
ES&PC
DETAILS**

FAYETTE COUNTY



WALDEN, ASHWORTH & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX
MARIETTA, GEORGIA 30065
(770) 956 - 7897
COA: PEF000707 EXP: 06/30/2020

JOB NO. 3902200 DRAWING NUMBER **39022- C-208** REV. NO. **0**