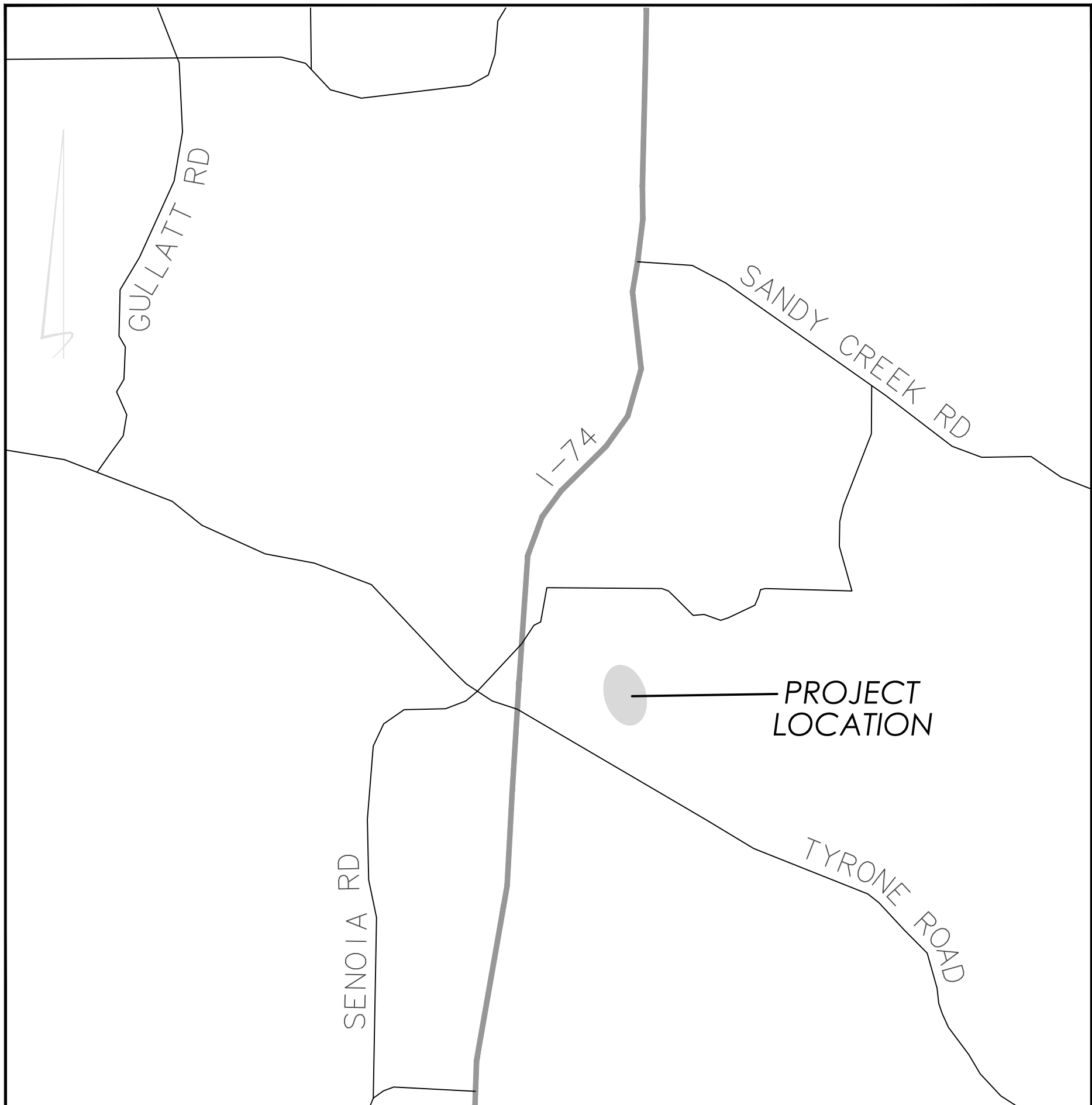


PENDLETON TRAIL CULVERT REPLACEMENT  
FOR  
TOWN OF TYRONE, GEORGIA

PROJECT NUMBER PW-2022-01

FLOOD STATEMENT:  
I HAVE THIS DATE EXAMINED THE NATIONAL FLOOD INSURANCE PROGRAM  
FLOOD INSURANCE RATE MAP (FIRM) AND FOUND THAT BY GRAPHIC  
PLOTING ONLY, A PORTION OF THE REFERENCE PARCEL IS LOCATED IN AN  
AREA HAVING SPECIAL FLOOD HAZARDS.  
MAP ID: 1311C0077E EFFECTIVE DATE: 09/26/2008 ZONE: AE



LOCATION MAP  
FAYETTE COUNTY

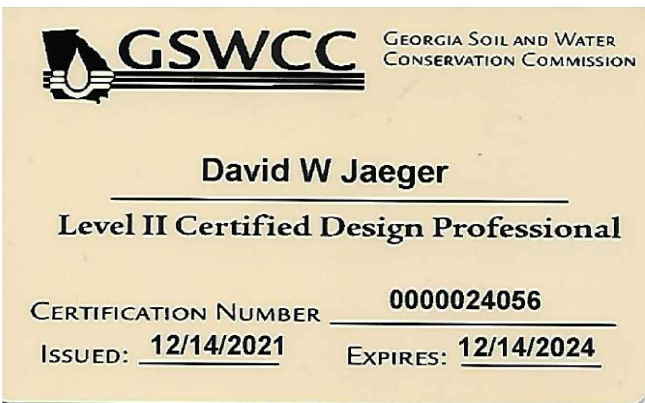
**AUTHORIZED BY:**  
**TOWN OF TYRONE, GEORGIA**

950 Senoia Road  
Tyrone, Georgia 30290  
P: 770-487-4038

Eric Dial - Mayor  
Gloria Furr - Council Member (Mayor Pro Tem)  
Billy Campbell - Council Member  
Linda Howard - Council Member  
Melissa Hill - Council Member

**24 Hour Erosion Control Contact:**

NAME: Scott Langford  
ADDRESS: 950 Senoia Road  
Tyrone, GA 30290  
PHONE: (770)-487-4038



**CONSTRUCTION SCHEDULE**

| Week                                                | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------------------------------------------|---|---|---|---|---|---|---|---|---|----|
| STAKE LIMITS OF DISTURBANCE AND INSTALL INITIAL BMP |   |   |   |   |   |   |   |   |   |    |
| REMOVE EXISTING ROADWAY AND CULVERT PIPES           |   |   |   |   |   |   |   |   |   |    |
| INSTALL SECONDARY BMP                               |   |   |   |   |   |   |   |   |   |    |
| INSTALL NEW CULVERT AND HEADWALLS                   |   |   |   |   |   |   |   |   |   |    |
| REBUILD ROADWAY AND INSTALL FINAL BMP               |   |   |   |   |   |   |   |   |   |    |
| FINAL PAVEMENT                                      |   |   |   |   |   |   |   |   |   |    |

**DRAWING INDEX**

| SHEET NO. | DESCRIPTION                           |
|-----------|---------------------------------------|
| 1.0       | COVER, LOCATION MAP AND INDEX         |
| 2.0       | EXISTING CONDITIONS PLAN VIEW         |
| 2.1       | EXISTING CONDITIONS - ENLARGED PLAN   |
| 2.2       | EXISTING CONDITIONS & DEMOLITION PLAN |
| 2.3       | DETOUR PLAN                           |
| 3.0       | PROPOSED STORM SEWER PLAN VIEW        |
| 3.1       | PROPOSED STORM SEWER PIPING PROFILES  |
| 4.0       | EROSION CONTROL INITIAL PLAN          |
| 4.1       | EROSION CONTROL INTERMEDIATE PLAN     |
| 4.2       | EROSION CONTROL FINAL PLAN            |
| 4.3       | ESPCP CHECKLIST AND NOTES             |
| 5.0       | EROSION CONTROL DETAILS               |
| 6.0-9.0   | CONSTRUCTION DETAILS                  |

PROJECT NUMBER PW-2022-01

DESIGN MCI SCALE N.T.S.

DRAWN ALG DATE 07/27/22

CHECK DWJ FILE NO. 21101-16

APPROVED DWJ SHEET NO. 1.0

BY APPD

DESCRIPTION

DATE

REV. NO.

Pendleton Trail Culvert Replacement  
for Town of Tyrone, Georgia

COVER, LOCATION MAP AND INDEX

Mallett Consulting, Inc.

101 DEVAINT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214  
PHONE: 770/719-3333  
FAX: 770/719-3377



GEORGIA SOIL AND WATER  
CONSERVATION COMMISSION

David W Jaeger

Level II Certified Design Professional

CERTIFICATION NUMBER

0000024056

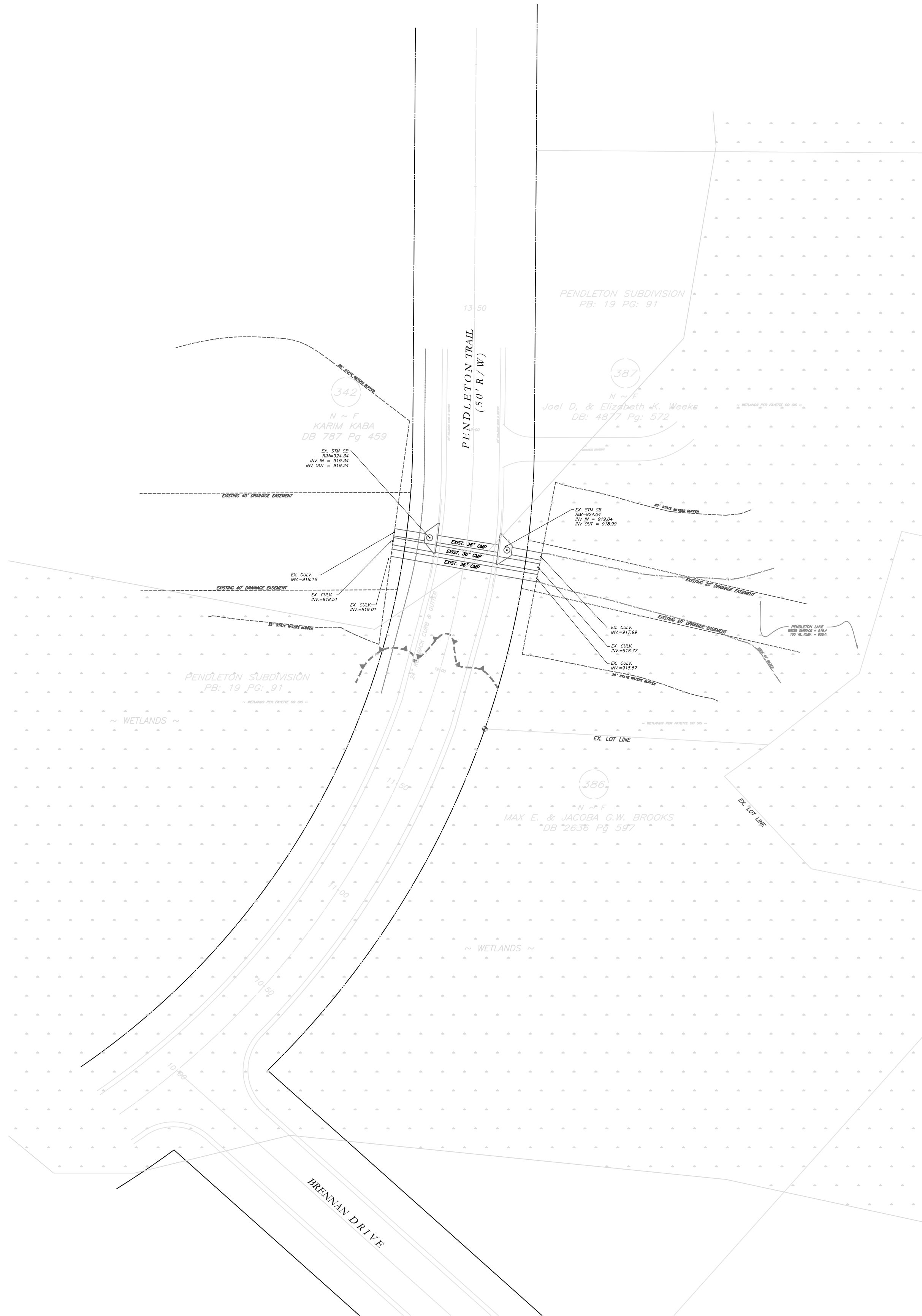
ISSUED: 12/14/2021

EXPIRES: 12/14/2024

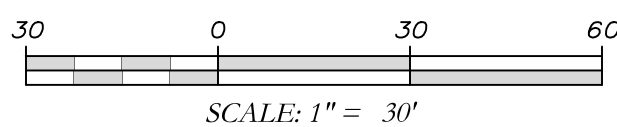
| LEGEND |                          |                     |
|--------|--------------------------|---------------------|
| IPF    | Iron Pin Found           | Fire Hydrant        |
| RBF    | Rebar Found              | Water Valve         |
| CTF    | Crimp Top Pipe Found     | Water Meter         |
| OTF    | Open Top Pipe Found      | Gas Meter           |
| DI     | Drop Inlet               | San. Cleanout       |
| JB     | Junction Box             | San. Sewer Manhole  |
| CB     | Catch Basin              | San. Sewer Line     |
| CMP    | Corrugated Metal Pipe    | Waterline           |
| RCP    | Reinforced Concrete Pipe | Overhead Power Line |
|        | Concrete Manumnt Fnd     | Underground Tele.   |
| W      | Monitoring Well          | Fiber Optic Marker  |
| BM     | Bellsouth Manhole        | Fence Line          |
| TPED   | Telephone Pedestal       | Underground Power   |
| GP     | Guy Pole                 | Gas Line            |
|        | Guy Wire                 | Power Box           |
|        | Power Pole               |                     |
|        | Light Pole               | Photo Indicator     |

NOTES:

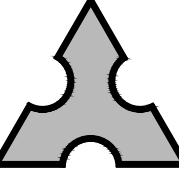
1. TEMPORARY TRAFFIC CONTROL STRIPING, SIGNAGE AND DEVICES ARE REQUIRED DURING TRANSITION FROM EXISTING CONDITION TO COMPLETION OF PROJECT.
2. CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES.
3. EXISTING PAVEMENT SHALL BE SAW CUT AT LIMITS OF DEMOLITION ACTIVITIES. LOCATION OF SAW CUTS SHALL BE APPROVED IN ADVANCE BY THE TOWN ENGINEER.
4. CONTRACTOR SHALL PROVIDE, INSTALL & MAINTAIN ALL TEMPORARY STREAM DIVERSION MEASURES, AS NECESSARY TO COMPLETE THE CULVERT REPLACEMENTS. STREAM DIVERSIONS SHALL PROVIDE A FLOW CAPACITY NO LESS THAN THE EXISTING CULVERTS. NO ADDITIONAL PAYMENT WILL BE MADE TO COMPLY WITH THIS REQUIREMENT. SEE NOTE 4, SHEET 4.0 FOR MORE INFORMATION.
5. ALL DEMOLITION MATERIALS, WASTE SOILS AND SEDIMENT SHALL BE HAULED AWAY AND DISPOSED OF OFFSITE AT A SUITABLE LOCATION, SELECTED BY THE CONTRACTOR. THIS SHALL BE DONE AT NO ADDITIONAL CHARGE.
6. THIS SITE/PROJECT IS EXEMPT FROM STREAM BUFFER VARIANCE DUE TO THE EXEMPTION OF SERVICEABLE MAINTENANCE ROADWAY DRAINAGE STRUCTURES.



EXISTING CULVERT LOCATION FROM NEAREST INTERSECTION  
PLAN VIEW



| PROJECT NUMBER PW-2022-01 |      |             |    |      | EXISTING CONDITIONS PLAN VIEW |              |                   |
|---------------------------|------|-------------|----|------|-------------------------------|--------------|-------------------|
|                           |      |             |    |      | LAND LOT —                    | DESIGN MCI   | SCALE AS NOTED    |
|                           |      |             |    |      | DISTRICT —                    | DRAWN ALG    | DATE 07/27/22     |
|                           |      |             |    |      | SECTION —                     | CHECK DWJ    | FILE NO. 21101-16 |
|                           |      |             |    |      | CITY — TYRONE                 | APPROVED DWJ | SHEET NO. 2.0     |
|                           |      |             |    |      | COUNTY — FAYETTE              |              |                   |
|                           |      |             |    |      | STATE — GEORGIA               |              |                   |
| REV. No.                  | DATE | DESCRIPTION | BY | APPD |                               |              |                   |



Mallett Consulting, Inc.  
101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214  
PHONE: 770-719-3333  
FAX: 770-719-3377

LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

NOTES:

1. TEMPORARY TRAFFIC CONTROL STRIPING, SIGNAGE AND DEVICES ARE REQUIRED DURING TRANSITION FROM EXISTING CONDITION TO COMPLETION OF PROJECT.
2. CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES.
3. EXISTING PAVEMENT SHALL BE SAW CUT AT LIMITS OF DEMOLITION ACTIVITIES. LOCATION OF SAW CUTS SHALL BE APPROVED IN ADVANCE BY THE TOWN ENGINEER.
4. CONTRACTOR SHALL PROVIDE, INSTALL & MAINTAIN ALL TEMPORARY STREAM DIVERSION MEASURES, AS NECESSARY TO COMPLETE THE CULVERT REPLACEMENTS. STREAM DIVERSIONS SHALL PROVIDE A FLOW CAPACITY NO LESS THAN THE EXISTING CULVERTS. NO ADDITIONAL PAYMENT WILL BE MADE TO COMPLY WITH THIS REQUIREMENT. SEE NOTE 4, SHEET 4.0 FOR MORE INFORMATION.
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6. THIS SITE/PROJECT IS EXEMPT FROM STREAM BUFFER VARIANCE DUE TO THE EXEMPTION OF SERVICEABLE MAINTENANCE ROADWAY DRAINAGE STRUCTURES.

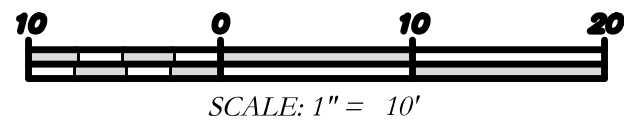
NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

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 SHALL 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.

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

EXISTING CULVERTS PLAN VIEW





GEORGIA SOIL AND WATER  
CONSERVATION COMMISSION

David W Jaeger

Level II Certified Design Professional

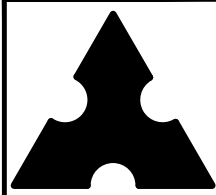
CERTIFICATION NUMBER 0000024056

ISSUED: 12/14/2021 EXPIRES: 12/14/2024



PROJECT NUMBER PW-2022-01

|          |      |             |    |       |
|----------|------|-------------|----|-------|
| REV. No. | DATE | DESCRIPTION | BY | APP'D |
|          |      |             |    |       |
|          |      |             |    |       |
|          |      |             |    |       |
|          |      |             |    |       |
|          |      |             |    |       |



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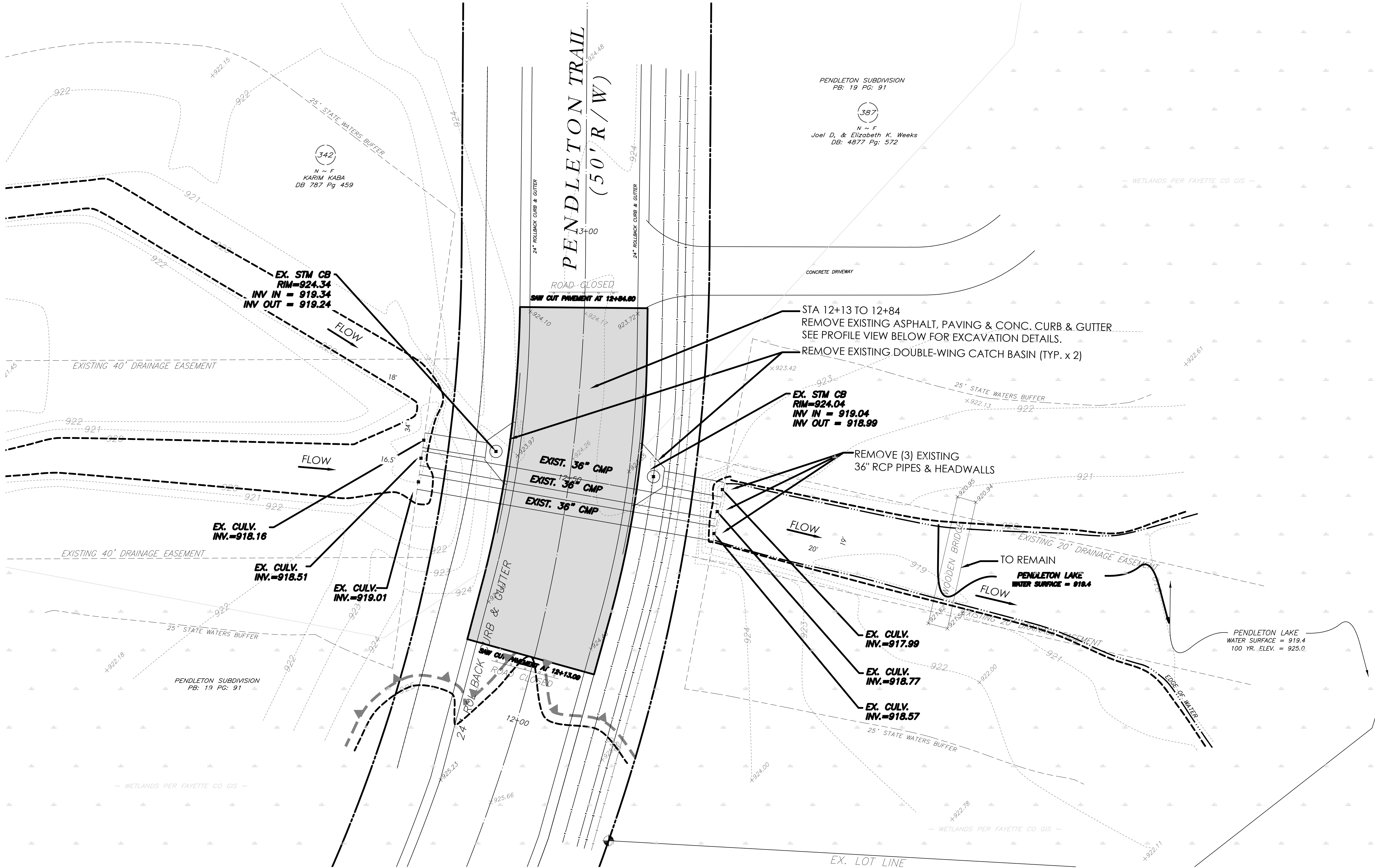
LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

EXISTING CONDITIONS ENLARGED PLAN

|          |         |               |
|----------|---------|---------------|
| LAND LOT | DESIGN  | SCALE         |
| DISTRICT | MCI     | AS NOTED      |
| SECTION  | ALG     | DATE          |
| CITY     | TYRONE  | 07/27/22      |
| COUNTY   | FAYETTE | FILE NO.      |
| STATE    | GEORGIA | 21101-16      |
| APPROVED | DWJ     | SHEET NO. 2.1 |

NOTES:

1. TEMPORARY TRAFFIC CONTROL STRIPING, SIGNAGE AND DEVICES ARE REQUIRED DURING TRANSITION FROM EXISTING CONDITION TO COMPLETION OF PROJECT.
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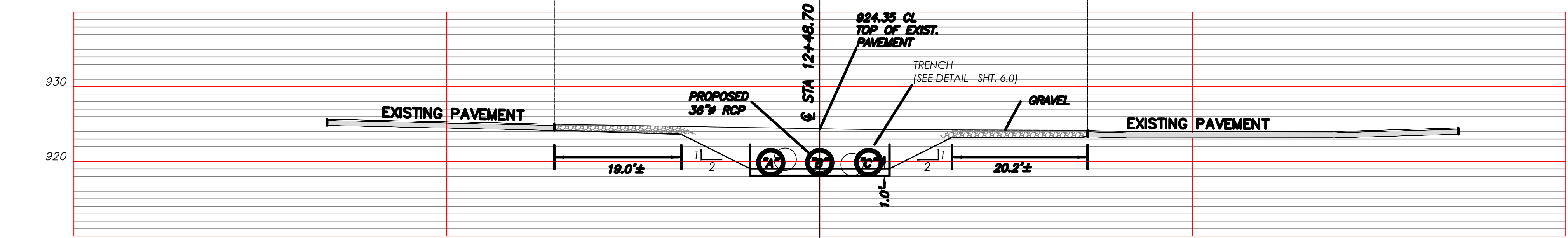


**GSWCC** GEORGIA SOIL AND WATER CONSERVATION COMMISSION

David W. Jaeger  
Level II Certified Design Professional

CERTIFICATION NUMBER 0000024056  
ISSUED: 12/14/2021 EXPIRES: 12/14/2024

| LEGEND |                          |                     |
|--------|--------------------------|---------------------|
| IPF    | Iron Pin Found           | Fire Hydrant        |
| RBF    | Rebar Found              | Water Valve         |
| CTF    | Crimp Top Pipe Found     | Water Meter         |
| OTF    | Open Top Pipe Found      | Gas Meter           |
| DI     | Drop Inlet               | San. Cleanout       |
| JB     | Junction Box             | San. Sewer Manhole  |
| CB     | Catch Basin              | San. Sewer Line     |
| CMP    | Corrugated Metal Pipe    | Waterline           |
| RCP    | Reinforced Concrete Pipe | Overhead Power Line |
| CM     | Concrete Monument Fnd    | Underground Tele.   |
| W      | Monitoring Well          | Fiber Optic Marker  |
| BM     | Belisouth Manhole        | Fence Line          |
| TPED   | Telephone Pedestal       | Underground Power   |
| GP     | Guy Pole                 | Gas Line            |
| GP     | Guy Wire                 | Power Box           |
| GP     | Power Pole               | Photo Indicator     |
| GP     | Light Pole               |                     |



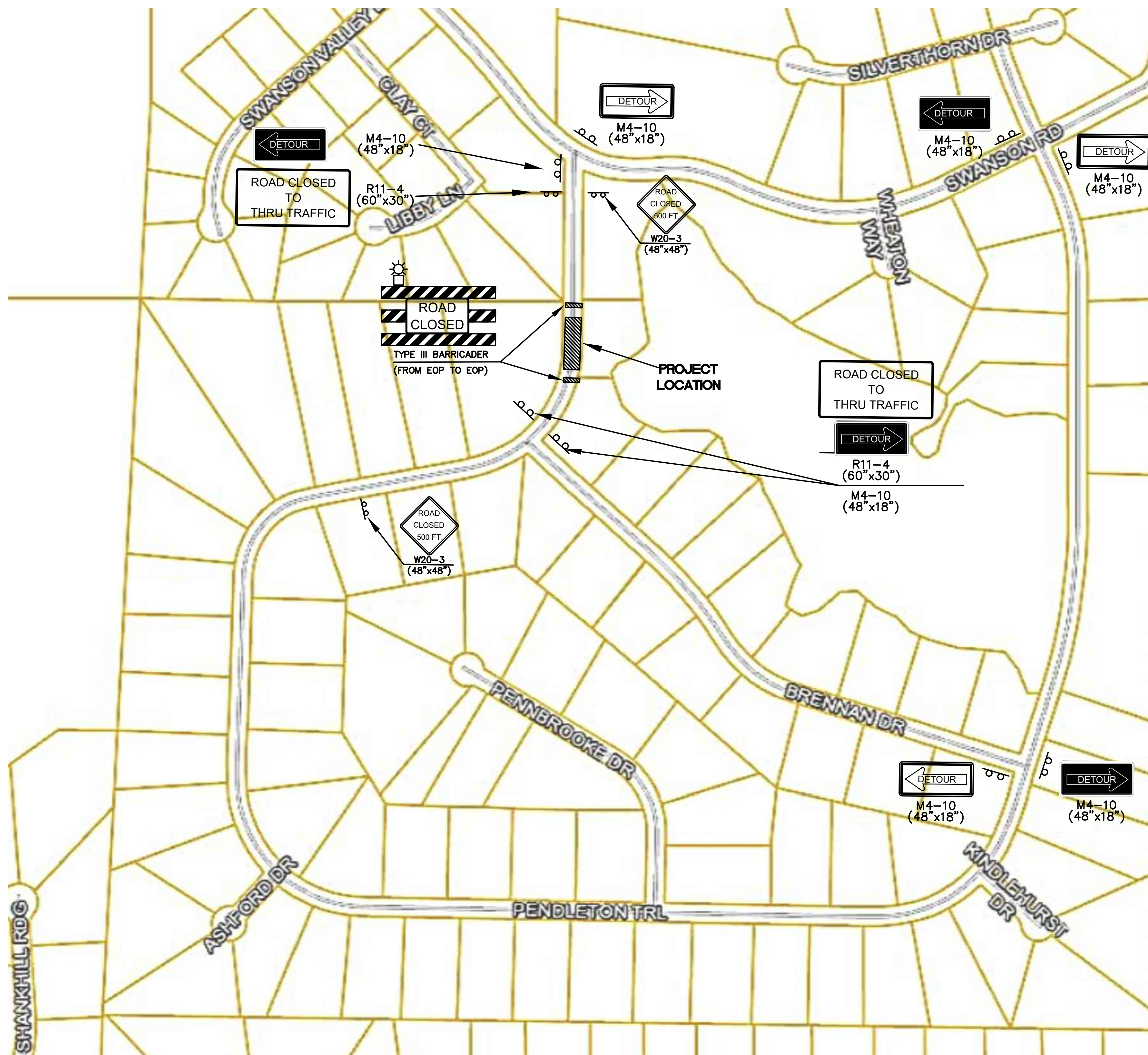
PROFILE VIEW - SAW-CUT & EXCAVTION DETAIL @ PENDLETON DRIVE C/L

SCALE: H: 1"= 10'  
V: 1"= 10'



|                           |      |             |    |       |                  |              |                   |  |
|---------------------------|------|-------------|----|-------|------------------|--------------|-------------------|--|
| PROJECT NUMBER PW-2022-01 |      |             |    |       | DEMOLITION PLAN  |              |                   |  |
|                           |      |             |    |       | LAND LOT —       | DESIGN MCI   | SCALE AS NOTED    |  |
|                           |      |             |    |       | DISTRICT —       | DRAWN ALG    | DATE 07/27/22     |  |
|                           |      |             |    |       | SECTION —        | CHECK DWJ    | FILE NO. 21101-16 |  |
|                           |      |             |    |       | CITY — TYRONE    | APPROVED DWJ | SHEET NO. 2.2     |  |
|                           |      |             |    |       | COUNTY — FAYETTE |              |                   |  |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D | STATE — GEORGIA  |              |                   |  |

GRID NORTH (GA WEST ZONE)



LEGEND

ROAD CLOSED DURING CONSTRUCTION (WORK ZONE)

SIGN ASSEMBLY

TYPE III BARRICADE

CLOCKWISE  
PENDLETON TRAIL DETOUR (4.52 MILES)

COUNTER CLOCKWISE  
PENDLETON TRAIL DETOUR (4.52 MILES)

GENERAL NOTES

- ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- ALL SIGNS SHALL BE INSTALLED WITHIN PUBLIC RIGHT OF WAY.
- TYPE VI (ENCAPSULATED LENS) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS.
- DETOUR SIGNS SHALL BE REMOVED AFTER CULVERT REPLACEMENT IS COMPLETE AND PENDLETON TRAIL IS OPEN TO TRAFFIC
- BARRICADES SHALL BE REMOVED AFTER CULVERT REPLACEMENT IS COMPLETE AND PENDLETON TRAIL IS REOPENED AT NO ADDITIONAL COST TO THE PROJECT.
- CONTRACTOR HAS TO GIVE NOTIFICATION TO ENGINEER 1 MONTH BEFORE START OF PROJECT FOR MESSAGE BOARD INSTALLATION BY TOWN.
- CONTRACTOR HAS TO GIVE ENGINEER A 1 WEEK MINIMUM NOTICE OF MOBILIZATION FOR ENGINEER NOTIFICATION TO POLICE, FIRE, EMS, SOLID WASTE AND SCHOOL TRANSPORTATION.

GSWCC

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

David W Jaeger

Level II Certified Design Professional

CERTIFICATION NUMBER 0000024056

ISSUED: 12/14/2021 EXPIRES: 12/14/2024



|                           |      |             |    |       |                  |              |                   |
|---------------------------|------|-------------|----|-------|------------------|--------------|-------------------|
| PROJECT NUMBER PW-2022-01 |      |             |    |       | DETOUR PLAN      |              |                   |
|                           |      |             |    |       | LAND LOT —       | DESIGN MCI   | SCALE AS NOTED    |
|                           |      |             |    |       | DISTRICT —       | DRAWN ALG    | DATE 07/27/22     |
|                           |      |             |    |       | SECTION —        | CHECK DWJ    | FILE NO. 21101-16 |
|                           |      |             |    |       | CITY — TYRONE    | APPROVED DWJ | SHEET NO. 2.3     |
|                           |      |             |    |       | COUNTY — FAYETTE |              |                   |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D | STATE — GEORGIA  |              |                   |

| LEGEND |                          |                     |
|--------|--------------------------|---------------------|
| IPF    | Iron Pin Found           | Fire Hydrant        |
| RBF    | Rebar Found              | Water Valve         |
| CTF    | Crimp Top Pipe Found     | Water Meter         |
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| JB     | Junction Box             | San. Sewer Manhole  |
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|        | Concrete Monument Fnd    | Underground Tele.   |
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| ⊙      | Telephone Pedestal       | Underground Power   |
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| ⊙      | Guy Wire                 | Power Box           |
| ⊙      | Power Pole               |                     |
| ⊙      | Light Pole               |                     |
|        |                          | Photo Indicator     |

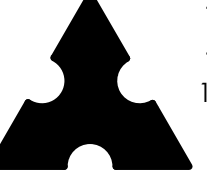
## PROPOSED STORM SEWER PIPING PLAN VIEW


**GSWCC**  
 GEORGIA SOIL AND WATER  
 CONSERVATION COMMISSION

**David W Jaeger**  
 Level II Certified Design Professional  
 Certification Number: 0000024056  
 Issued: 12/14/2021 Expires: 12/14/2024

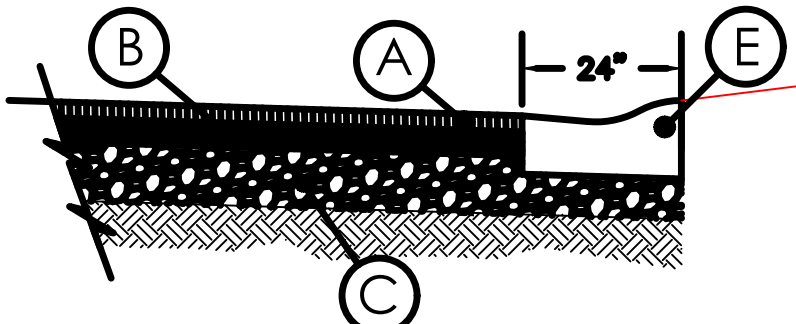


|                           |      |             |    |       |                  |         |          |     |                |  |  |
|---------------------------|------|-------------|----|-------|------------------|---------|----------|-----|----------------|--|--|
| PROJECT NUMBER PW-2022-01 |      |             |    |       | PLAN VIEW        |         |          |     |                |  |  |
|                           |      |             |    |       | LAND LOT —       |         | DESIGN   | MCI | SCALE AS NOTED |  |  |
|                           |      |             |    |       | DISTRICT —       |         | DRAWN    | ALG | DATE           |  |  |
|                           |      |             |    |       | SECTION —        |         |          |     | 07/27/22       |  |  |
|                           |      |             |    |       | CITY — TYRONE    |         | CHECK    | DWJ | FILE NO.       |  |  |
|                           |      |             |    |       | COUNTY — FAYETTE |         | 21101-16 |     |                |  |  |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D | STATE —          | GEORGIA | APPROVED | DWJ | SHEET NO. 3.0  |  |  |


**Mallett Consulting, Inc.**  
 101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214  
 PHONE: 770-719-3333  
 FAX: 770-719-3377

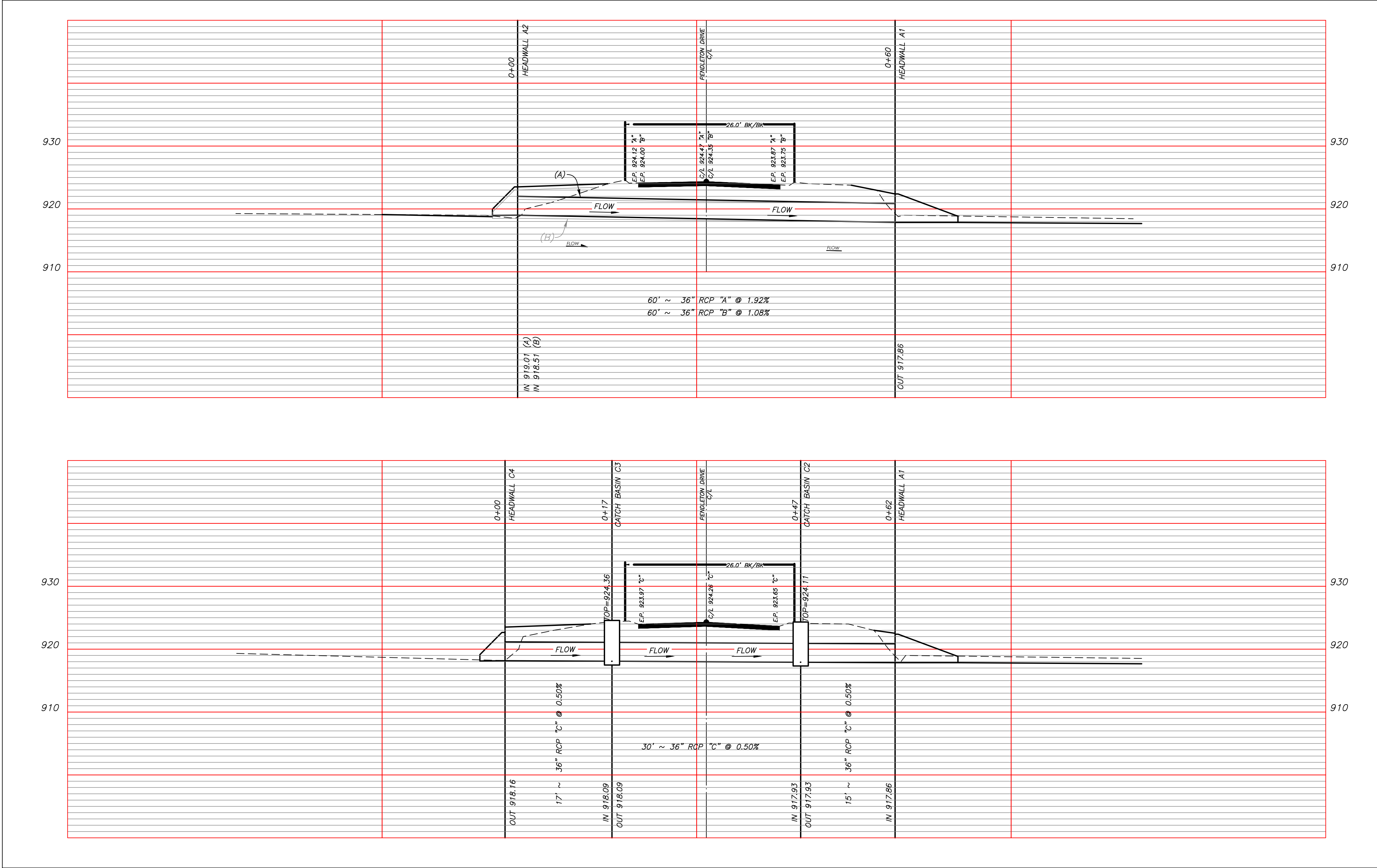
## LAKE PENDLETON CULVERT REPLACEMENT FOR TOWN OF TYRONE, GA

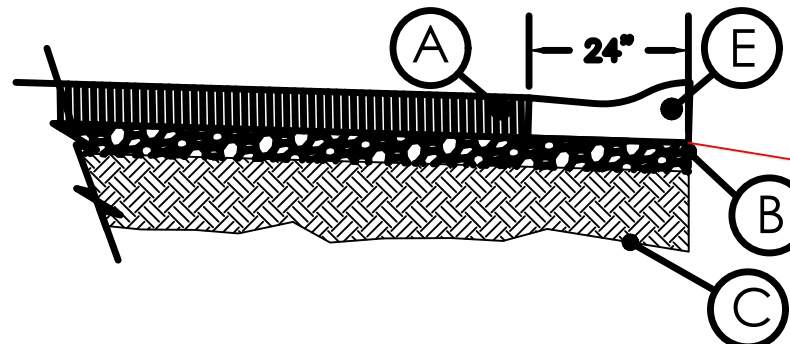
### PROPOSED STORM SEWER PIPING PLAN VIEW



- (A) 165 LB/SY RECYCLED ASPH CONC 1 1/2" SUPERPAVE, GP 1 OR 2 INCL BITUM MATL & H LIME
- (B) 220 LBS/SY RECYCLED ASPH. CONC. 2" SUPERPAVE, GP 1 OR 2.
- (C) COMPACTED G.A.B., 10" THICK.
- (D) SOIL SUBGRADE SHALL BE BACKFILLED IN 8" THICK LOOSE LAYERS AND COMPACTED TO 95% STD PROCTOR. APPROVAL BY GEOTECHNICAL ENGINEER REQUIRED PRIOR TO PLACEMENT OF G.A.B.
- (E) MATCH EXISTING 24" ROLLBACK CURB

### PAVEMENT REPAIR DETAIL N.T.S.





(A) 165 LB/SY RECYCLED ASPH CONC  
2" SUPERPAVE, GP 1 OR 2  
INCL BITUM MATL & H LIME

(B) 220 LBS/SY RECYCLED ASPH. CONC.  
3/4" SUPERPAVE, GP 1 OR 2.

(C) COMPACTED G.A.B., 10" THICK.

(D) SOIL SUBGRADE SHALL BE BACKFILLED  
IN 8" THICK LOOSE LAYERS AND  
COMPACTED TO 95% STD PROCTOR.  
APPROVAL BY GEOTECHNICAL ENGINEER  
REQUIRED PRIOR TO PLACEMENT OF G.A.B.

(E) MATCH EXISTING 24" ROLLBACK CURB

PAVEMENT REPAIR DETAIL  
N.T.S.

PROPOSED STORM SEWER PIPING PROFILES  
SCALE: H: 1"= 10'  
V: 1"= 10'



Georgia Soil and Water  
Conservation Commission

David W Jaeger

Level II Certified Design Professional

CERTIFICATION NUMBER

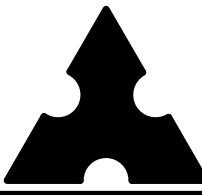
0000024056

ISSUED: 12/14/2021

EXPIRES: 12/14/2024



| PROJECT NUMBER PW-2022-01 |      |             |    |      | PROPOSED STORM SEWER PIPING PROFILES |          |           |
|---------------------------|------|-------------|----|------|--------------------------------------|----------|-----------|
|                           |      |             |    |      | LAND LOT                             | DESIGN   | SCALE     |
|                           |      |             |    |      | DISTRICT                             | MCI      | AS NOTED  |
|                           |      |             |    |      | SECTION                              | DRAWN    | DATE      |
|                           |      |             |    |      |                                      | ALG      | 07/27/22  |
|                           |      |             |    |      | CITY                                 | CHECK    | FILE NO.  |
|                           |      |             |    |      | TYRONE                               | DWJ      | 21101-16  |
|                           |      |             |    |      | COUNTY                               | APPROVED | SHEET NO. |
|                           |      |             |    |      | FAYETTE                              | DWJ      | 3.1       |
| REV. No.                  | DATE | DESCRIPTION | BY | APPD | STATE                                | GEORGIA  |           |

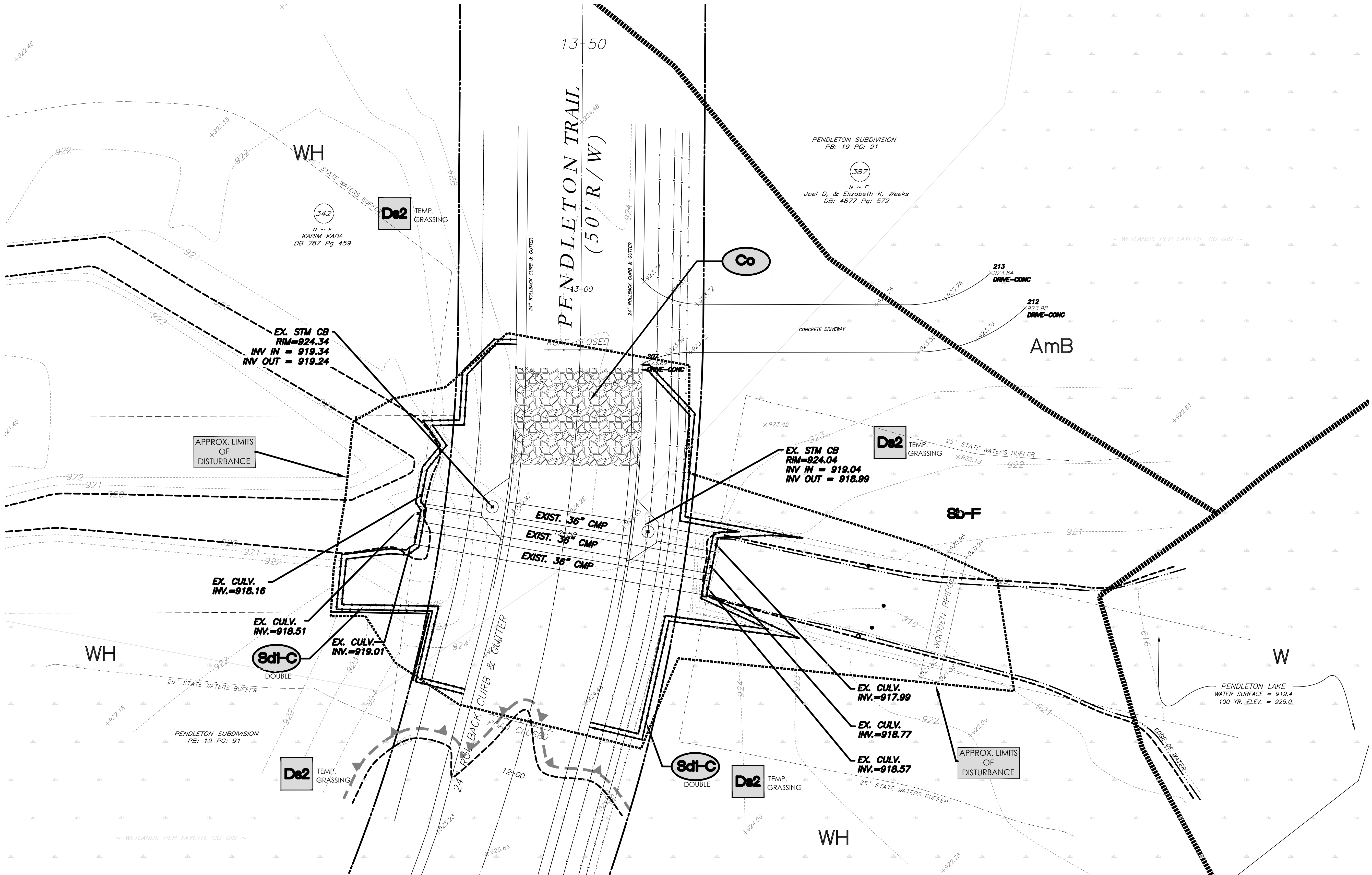


Mallett Consulting, Inc.  
101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214  
PHONE: 770-719-3333  
FAX: 770-719-3377

LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

NOTES:

1. TEMPORARY TRAFFIC CONTROL STRIPING, SIGNAGE AND DEVICES ARE REQUIRED DURING TRANSITION FROM EXISTING CONDITION TO COMPLETION OF PROJECT.
2. CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES.
3. EXISTING PAVEMENT SHALL BE SAW CUT AT LIMITS OF DEMOLITION ACTIVITIES. LOCATION OF SAW CUTS SHALL BE APPROVED IN ADVANCE BY THE TOWN ENGINEER.
4. CONTRACTOR TO DETERMINE MEANS AND METHODS FOR STREAM CHANNEL DIVERSION. PRIOR TO BEGINNING THAT WORK, THE CONTRACTOR SHALL SUBMIT PROPOSED METHOD OF STREAM DIVERSION TO ENGINEER FOR REVIEW AND CONCURRENCE.
5. ALL DEMOLITION MATERIALS, WASTE SOILS AND SEDIMENT SHALL BE HAULED AWAY AND DISPOSED OF OFFSITE AT A SUITABLE LOCATION, SELECTED BY THE CONTRACTOR. THIS SHALL BE DONE AT NO ADDITIONAL CHARGE.
6. THIS SITE/PROJECT IS EXEMPT FROM STREAM BUFFER VARIANCE DUE TO THE EXEMPTION OF SERVICEABLE MAINTENANCE ROADWAY DRAINAGE STRUCTURES.
7. USE OF A TEMPORARY SEDIMENT BASIN IS NOT PRACTICAL FOR THE NATURE OF THIS PROJECT. WORK ZONE IS DIRECTLY IN CREEK CHANNEL WITH LIMITED PERIPHERAL AREA. ADEQUATE SEDIMENT CAPTURE/STORAGE WILL BE PROVIDED BY OTHER BEST MANAGEMENT PRACTICES. (TURBIDITY CURTAIN, SILT FENCE, ETC.) AND WILL BE MONITORED, CLEANED OUT AND REPLENISHED AS NECESSARY TO ACCOMPLISH THE INTENT OF THIS PARAMETER.



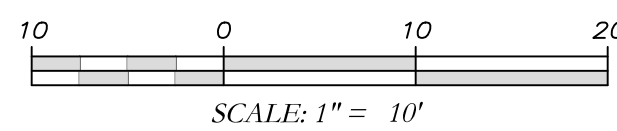
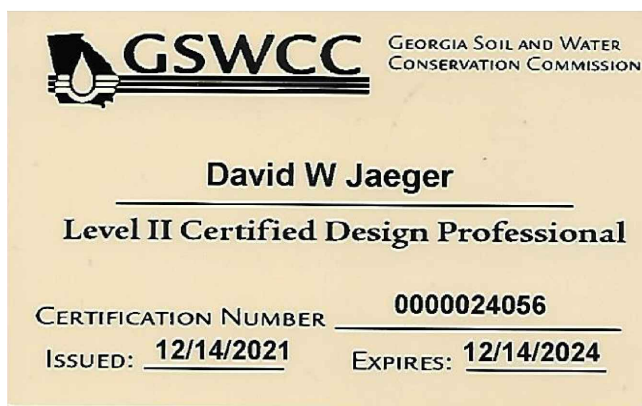
FLOOD STATEMENT:  
I HAVE THIS DATE EXAMINED THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP (FIRM) AND FOUND THAT BY GRAPHIC PLOTTING ONLY, A PORTION OF THE REFERENCE PARCEL IS LOCATED IN AN AREA HAVING SPECIAL FLOOD HAZARDS.

MAP ID: 1311C0072E EFFECTIVE DATE: 09/26/2008 ZONE: AE

| LEGEND |                          |                     |
|--------|--------------------------|---------------------|
| IPF    | Iron Pin Found           | Fire Hydrant        |
| RBF    | Rebar Found              | Water Valve         |
| CTF    | Crimp Top Pipe Found     | Water Meter         |
| OTF    | Open Top Pipe Found      | Gas Meter           |
| DI     | Drop Inlet               | San. Cleanout       |
| JB     | Junction Box             | San. Sewer Manhole  |
| CB     | Catch Basin              | San. Sewer Line     |
| CMP    | Corrugated Metal Pipe    | Waterline           |
| RCP    | Reinforced Concrete Pipe | Overhead Power Line |
| CM     | Concrete Monument Fnd    | Underground Tele.   |
| W      | Monitoring Well          | Fiber Optic Marker  |
| BM     | Bellsouth Manhole        | Fence Line          |
| TPED   | Telephone Pedestal       | Underground Power   |
| GP     | Guy Pole                 | Gas Line            |
|        | Guy Wire                 | Power Box           |
|        | Power Pole               | Photo Indicator     |
|        | Light Pole               |                     |

I CERTIFY AS THE PLAN DESIGNER THAT I HAVE VISITED THE SITE PRIOR TO THE DESIGN OF THE ES&PC PLANS

*David W. Jaeger*



TOTAL DISTURBED ACRES = 0.14  
24 HOUR CONTACT: SCOTT LANGFORD  
(770)-487-4038

| PROJECT NUMBER PW-2022-01 |      |             |    |       | LAND LOT |         |  | DESIGN   | SCALE     |
|---------------------------|------|-------------|----|-------|----------|---------|--|----------|-----------|
|                           |      |             |    |       |          |         |  | MCI      | AS NOTED  |
|                           |      |             |    |       |          |         |  | DRAWN    | DATE      |
|                           |      |             |    |       |          |         |  | ALG      | 07/27/22  |
|                           |      |             |    |       |          |         |  | CHECK    | FILE NO.  |
|                           |      |             |    |       |          |         |  | DWJ      | 21101-16  |
|                           |      |             |    |       |          |         |  | APPROVED | SHEET NO. |
|                           |      |             |    |       |          |         |  | DWJ      | 4.0       |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D | STATE    | GEORGIA |  |          |           |

Mallett Consulting, Inc.  
101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214  
PHONE: 770-719-3333  
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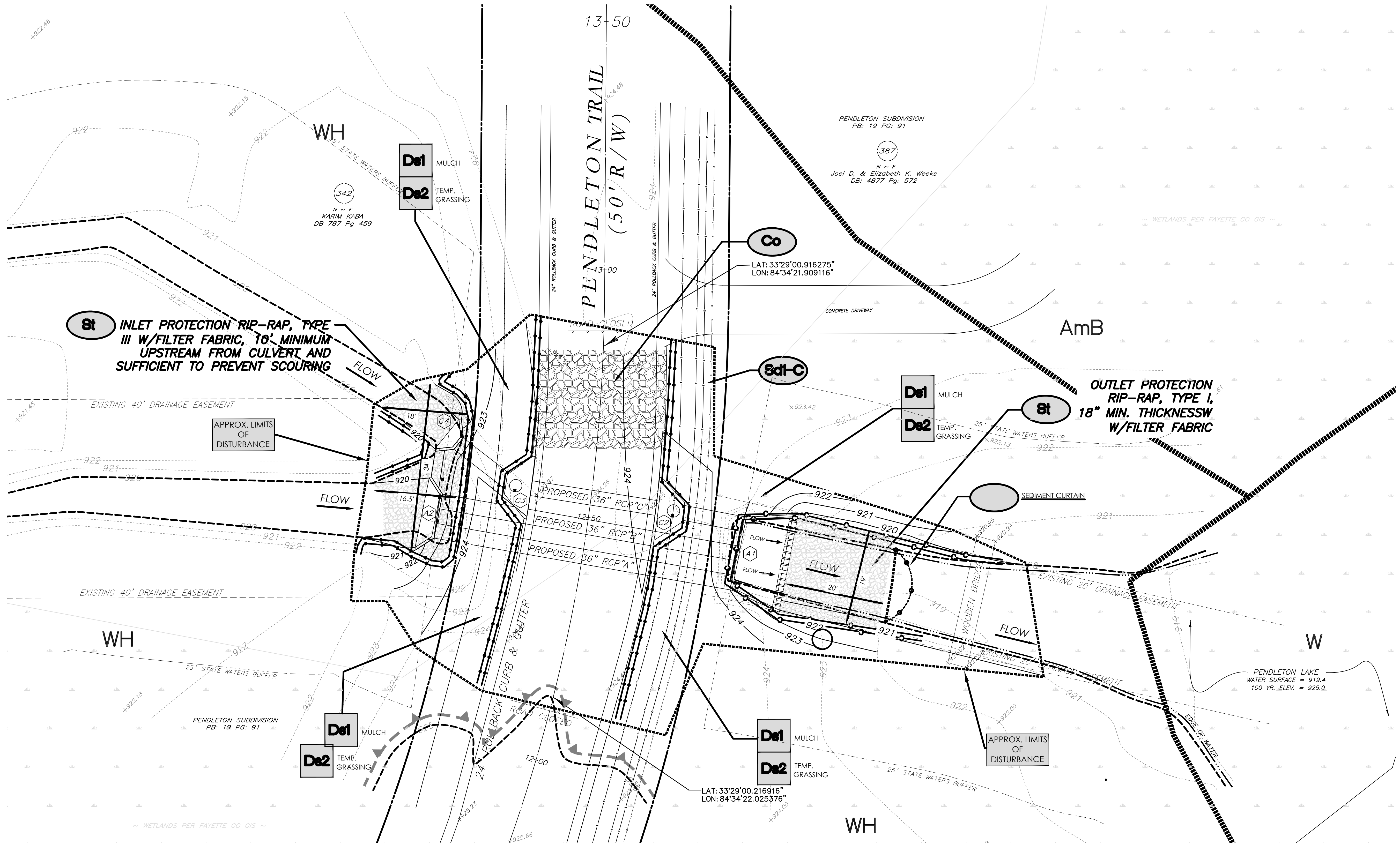
LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

EROSION, SEDIMENTATION & POLLUTION CONTROL  
INITIAL PLAN

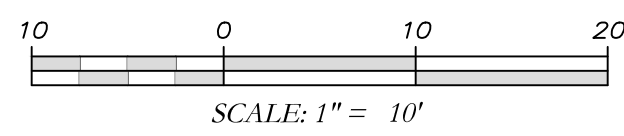
## NOTES:

1. TEMPORARY TRAFFIC CONTROL STRIPING, SIGNAGE AND DEVICES ARE REQUIRED DURING TRANSITION FROM EXISTING CONDITION TO COMPLETION OF PROJECT.
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| LEGEND |                          |                     |
|--------|--------------------------|---------------------|
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|        | Power Pole               | Photo Indicator     |
|        | Light Pole               |                     |



TOTAL DISTURBED ACRES = 0.14  
24 HOUR CONTACT: SCOTT LANGFORD  
(770)-487-4038



LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

EROSION, SEDIMENTATION & POLLUTION CONTROL  
INTERMEDIATE PLAN

|                           |      |             |    |       |          |         |           |
|---------------------------|------|-------------|----|-------|----------|---------|-----------|
| PROJECT NUMBER PW-2022-01 |      |             |    |       | LAND LOT | DESIGN  | SCALE     |
|                           |      |             |    |       | DISTRICT | MCI     | AS NOTED  |
|                           |      |             |    |       | SECTION  | ALG     | DATE      |
|                           |      |             |    |       | CITY     | TYRONE  | 07/27/22  |
|                           |      |             |    |       | COUNTY   | FAYETTE | FILE NO.  |
|                           |      |             |    |       | STATE    | GEORGIA | 21101-16  |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D | APPROVED | DWJ     | SHEET NO. |
|                           |      |             |    |       |          |         | 4.1       |

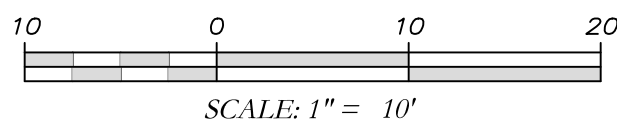
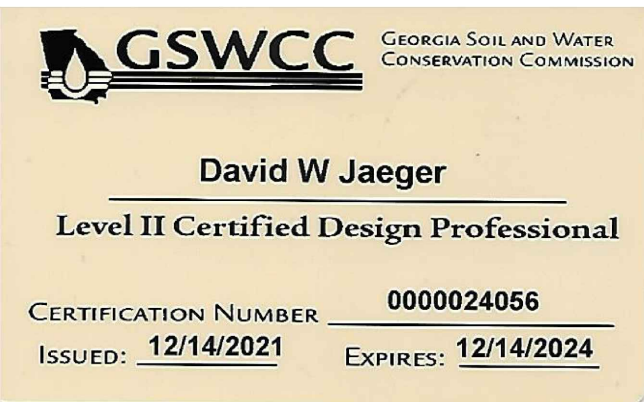
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| GP     | Guy Pole                 | Power Box           |
| GW     | Guy Wire                 | Photo Indicator     |
| PP     | Power Pole               |                     |
| LP     | Light Pole               |                     |

NOTE:

CONTRACTOR TO REMOVE ALL SEDIMENT TRAPPED BY SEDIMENT CURTAIN PRIOR TO THE REMOVAL OF SAID CURTAIN.



TOTAL DISTURBED ACRES = 0.14  
24 HOUR CONTACT: SCOTT LANGFORD  
(770)-487-4038

| PROJECT NUMBER PW-2022-01 |      |             |    |       | LAND LOT |         |  | DESIGN   | SCALE     |
|---------------------------|------|-------------|----|-------|----------|---------|--|----------|-----------|
|                           |      |             |    |       |          |         |  | MCI      | AS NOTED  |
|                           |      |             |    |       |          |         |  | DRAWN    | DATE      |
|                           |      |             |    |       |          |         |  | ALG      | 07/27/22  |
|                           |      |             |    |       |          |         |  | CITY     | FILE NO.  |
|                           |      |             |    |       |          |         |  | TYRONE   | 21101-16  |
|                           |      |             |    |       |          |         |  | COUNTY   | SHEET NO. |
|                           |      |             |    |       |          |         |  | FAYETTE  | 4.2       |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D | STATE    | GEORGIA |  | APPROVED |           |
|                           |      |             |    |       |          |         |  | DWJ      |           |

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LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

EROSION, SEDIMENTATION & POLLUTION CONTROL  
FINAL PLAN

GEORGIA  
UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES  
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

| CODE | PRACTICE                        | DETAIL | MAP SYMBOL | DESCRIPTION                                                                                                                                                                                                               |
|------|---------------------------------|--------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cd   | CHECK DAM                       |        |            | A small temporary barrier or dam constructed across a small drainage ditch or area of concentrated flow.                                                                                                                  |
| Ch   | CHANNEL STABILIZATION           |        |            | Improving, constructing or stabilizing an open channel, existing stream, or ditch.                                                                                                                                        |
| Co   | CONSTRUCTION EXIT               |        |            | A crushed stone pad located at the construction site and to provide a place for removing mud from tires thereby protecting public streets.                                                                                |
| Cs   | CONSTRUCTION ROAD STABILIZATION |        |            | A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.                                                                                               |
| Dc   | STREAM DIVERSION CHANNEL        |        |            | A ditch channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.                                                                                          |
| Di   | DIVERSION                       |        |            | A flexible conduit of heavy duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and responsive.                                                                       |
| Dn1  | TEMPORARY DOWNSTREAM STRUCTURE  |        |            | A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.                                                                                                        |
| Dn2  | PERMANENT DOWNSTREAM STRUCTURE  |        |            | A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.                                                                                                        |
| Ff   | FILTER FINE                     |        |            | A temporary stone barrier constructed at storm drain inlets and pond outlets.                                                                                                                                             |
| Ga   | GABION                          |        |            | Rock filter baskets which are hand placed into position forming soil stabilizing structures.                                                                                                                              |
| Gr   | GRADE STABILIZATION STRUCTURE   |        |            | Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.                                                                      |
| Lv   | LEVEL SPREADER                  |        |            | A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.                                                                                     |
| Rd   | ROCK FILTER DAM                 |        |            | A permanent or temporary stone filter dam installed across small streams or drainageways.                                                                                                                                 |
| Re   | RETAINING WALL                  |        |            | A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.                                                                        |
| Rl   | RETRO FITTING                   |        |            | A barrier structure placed in front of a permanent downstream detention pond outlet structure to serve as a temporary sediment filter.                                                                                    |
| Sd1  | SEDIMENT BARRIER                |        |            | A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.                                                              |
| Sd2  | INLET SEDIMENT TRAP             |        |            | An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.                                                      |
| Sd3  | TEMPORARY SEDIMENT BASIN        |        |            | A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.                                                                   |
| Sd4  | TEMPORARY SEDIMENT TRAP         |        |            | A small temporary pond that drains a disturbed area so that sediment can settle out. The structure has a temporary sediment trap from a temporary sediment basin in the back of a pipe or road.                           |
| Sk   | FLUENT SUBSTRATE SKIMMER        |        |            | A harvest device that releases water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.                                                                                                   |
| Spb  | SEEP BASIN                      |        |            | Linear control device constructed as a diversion perpendicular to the direction of runoff to reduce erosion and sedimentation by diverting runoff into a sedimentation chamber with the employment of intermediate dikes. |

STRUCTURAL PRACTICES

| CODE | PRACTICE                           | DETAIL | MAP SYMBOL | DESCRIPTION                                                                                                                                             |
|------|------------------------------------|--------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sr   | TEMPORARY STREAM CROSSING          |        |            | A temporary bridge or culvert type structure protecting a stream or watercourse from damage by crossing construction equipment.                         |
| Sl   | STORM DRAIN INLET PROTECTION       |        |            | A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.                       |
| Su   | SURFACE ROUGHENING                 |        |            | A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.                                    |
| Tc   | TURBIDITY CURTAIN                  |        |            | A floating or stacked barrier installed within the water (it may also be referred to as a floating boom, all barrier, or cut curtain).                  |
| Tp   | TOPSOILING                         |        |            | The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities. |
| Tr   | TREE PROTECTION                    |        |            | To protect desirable trees from injury during construction activity.                                                                                    |
| Wt   | WATERWAY OR STORMWATER CONFINEMENT |        |            | Paved or vegetative water outlets for the outlet of terraces, berms, dikes or similar structures.                                                       |

VEGETATIVE PRACTICES

| CODE  | PRACTICE                                            | DETAIL | MAP SYMBOL | DESCRIPTION                                                                                                                                                                 |
|-------|-----------------------------------------------------|--------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bf    | BUFFER ZONE                                         |        |            | Strips of undisturbed original vegetation, enhanced or restored existing vegetation or the establishment of vegetation surrounding an area of disturbed or degraded stream. |
| Cs    | CONTOURED ROAD STABILIZATION (WITH VEGETATION ONLY) |        |            | Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.                                                                                    |
| Ds1   | DISTURBED AREA STABILIZATION (WITH VEGETATION ONLY) |        |            | Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.                         |
| Ds2   | RESTORED AREA STABILIZATION (WITH VEGETATION ONLY)  |        |            | Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.                                                                                   |
| Ds3   | RESTORED AREA STABILIZATION (WITH VEGETATION ONLY)  |        |            | Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.                                                             |
| Ds4   | RESTORED AREA STABILIZATION (CONCRETE)              |        |            | A permanent vegetative cover using seeds on highly erodible or critically eroded lands.                                                                                     |
| Du    | DUST CONTROL ON DISTURBED AREAS                     |        |            | Controlling surface and air movement of dust on construction site, roadways and similar sites.                                                                              |
| Fl-Cd | FLUENT CURTAIN AND CONDUIT                          |        |            | Substance formulated to assist in the solid/liquid separation of suspended particles in solution.                                                                           |
| Sb    | STREAMBANK STABILIZATION (WITH VEGETATION ONLY)     |        |            | The use of readily available native plant materials to stabilize and enhance streambanks, or to prevent, or problems.                                                       |
| Ss    | SLOPE STABILIZATION                                 |        |            | A protective covering used to prevent erosion and stabilize temporary or permanent vegetation on steep slopes, shore lines, or dunes.                                       |
| Tac   | TERRACE AND BERM                                    |        |            | Substance used to anchor straw or hay mulch by causing the organic material to bind together.                                                                               |

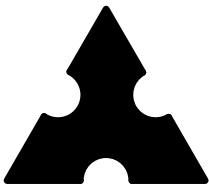
GSWCC (Amended - 2013)

- PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- THIS PROJECT DOES USE ALTERNATIVE BMPS FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA 2017 EDITION.
- THE NATURE OF THE CONSTRUCTION ACTIVITY IS THE REPLACEMENT OF AN EXISTING CULVERT CONSISTING OF THREE 36" CORRUGATED METAL PIPES. THE EXISTING PIPES ARE IN A DETERIOATED CONDITION AND HAVE NO HEADWALL AT EITHER THEIR ENTRANCE OR DISCHARGE. THE CULVERT WILL BE REPLACED WITH 3 RE-INFORCED CONCRETE PIPES INSTALLED AT SIMILAR GRADE AND INVERTS AS TO APPROXIMATE EXISTING HYDRAULICS. STANDARD HEADWALLS WILL BE USED AT THE ENTRANCE AND AN ENERGY DISSIPATING HEADWALL WILL BE INSTALLED AT DISCHARGE. BEST MANAGEMENT PRACTICES WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- THE RECEIVING WATERS ARE PENDLETON LAKE. PER COUNTY MAPPING WETLANDS ARE PRESENT ON A PORTION OF THE SITE AS SHOWN ON PLANS. THE IMMEDIATE HEADWATERS ARE IN THE COMMON AREA OF PENDLETON SUBDIVISION AND THE TAIL WATER IS CONTAINED IN A DRAINAGE EASEMENT ON LOT 387 OF PENDLETON SUBDIVISION DRAINING TO PENDLETON LAKE AT THE REAR OF LOT 387.
- THIS SITE/PROJECT IS EXEMPT FROM STREAM BUFFER VARIANCE DUE TO THE EXEMPTION OF SERVICEABLE MAINTENANCE ROADWAY DRAINAGE STRUCTURES.
- THE CONTRACTOR WILL COORDINATE WITH THE SITE INSPECTOR THE MEANS AND MATERIALS NECESSARY TO ENSURE FLOW OF EXISTING STREAM DURING ALL PHASES OF CONSTRUCTION.

TOTAL DISTURBED ACRES = 0.14  
24 HOUR CONTACT: SCOTT LANGFORD  
(770)-487-4038

PROJECT NUMBER PW-2022-01

|          |      |             |    |      |       |
|----------|------|-------------|----|------|-------|
|          |      |             |    |      |       |
|          |      |             |    |      |       |
|          |      |             |    |      |       |
|          |      |             |    |      |       |
|          |      |             |    |      |       |
|          |      |             |    |      |       |
| REV. No. | DATE | DESCRIPTION | BY | APPD | STATE |



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LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

EROSION, SEDIMENTATION & POLLUTION CONTROL  
CHECKLIST AND NOTES

|          |          |           |
|----------|----------|-----------|
| LAND LOT | DESIGN   | SCALE     |
| DISTRICT | MCI      | AS NOTED  |
| SECTION  | DRAWN    | DATE      |
| CITY     | ALG      | 07/27/22  |
| COUNTY   | CHECK    | FILE NO.  |
| STATE    | DWJ      | 21101-16  |
|          | APPROVED | SHEET NO. |
|          | DWJ      | 4.3       |

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST  
INFRASTRUCTURE CONSTRUCTION PROJECTS

Project Name: \_\_\_\_\_ SWCD: \_\_\_\_\_ Towaliga  
City/County: \_\_\_\_\_ Pendleton Trl Culvert Replacement Address: \_\_\_\_\_ Pendleton Trl  
Name & email of person filling out checklist: \_\_\_\_\_ Devon Boullion, dboullion@tyrone.org  
Plan Included Y/N

TO BE SHOWN ON ES&PC PLAN

4.3 Required

4.0-4.3 Required

ALL Modify

N/A - see 3.

ALL Modify

4.1&4.3 Required

ALL Competed

4.3 Required

1.0 Completed

4.3 Required

4.0-4.2 Required

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4.0 Required

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4.3 Required

- Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at [www.gaswcc.georgia.gov](http://www.gaswcc.georgia.gov).
- Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. \*
- Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

43 Delineation and acreage of contributing drainage basins on the project site.

44 Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.

45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. \*\*\*SEE SHEET 4.3, NOTE #4\*\*\*

47 Soil series for the project site and their delineation.

48 The limits of disturbance for each phase of construction.

49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

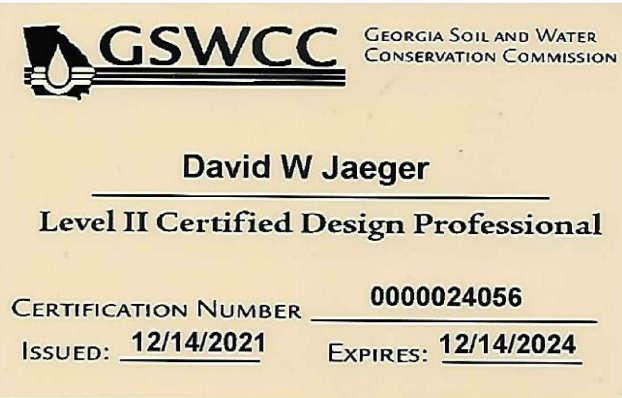
50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in

the Manual for Erosion and Sediment Control in Georgia.

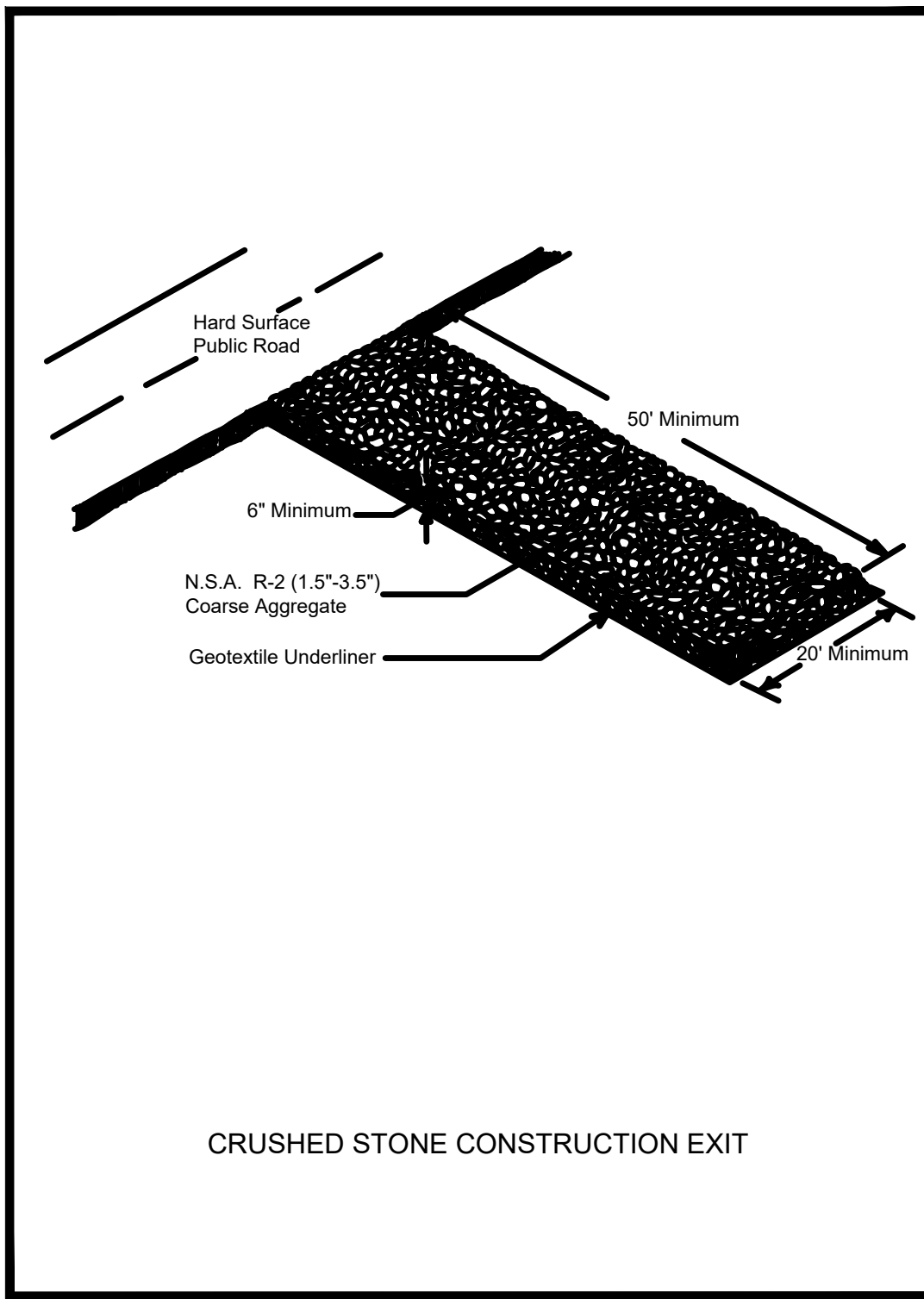
52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

\* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the " checklist items would be N/A.

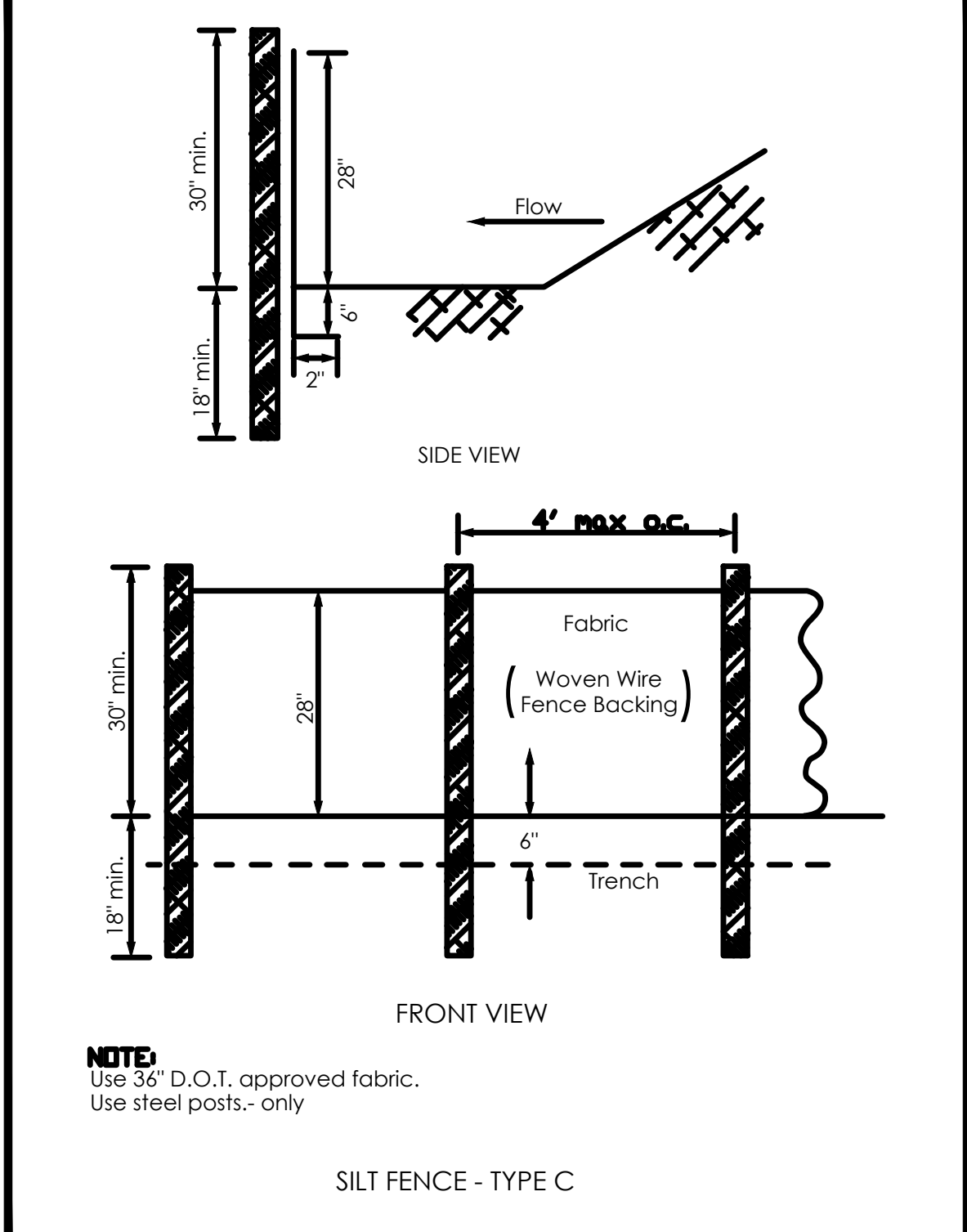


NOTE:

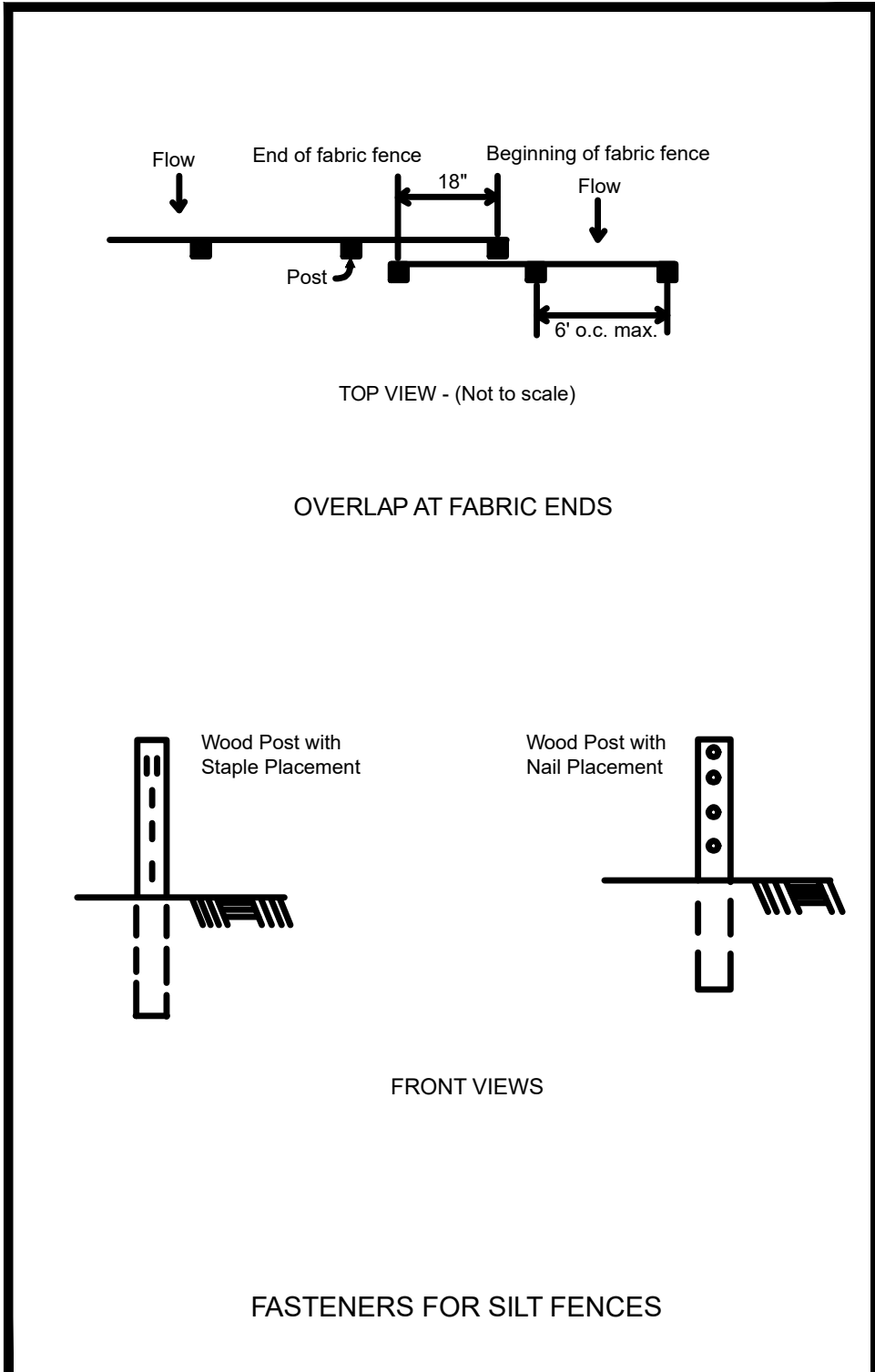
CONTRACTOR TO DETERMINE MEANS AND METHODS FOR STREAM CHANNEL DIVERSION. PRIOR TO BEGGING THAT WORK, THE CONTRACTOR SHALL SUBMIT PROPOSED METHOD OF STREAM DIVERSION TO ENGINEER FOR REVIEW AND CONCURRENCE.



**Co** CONSTRUCTION EXIT  
TO BE USED FOR CONSTRUCTION TRAFFIC  
AS DIRECTED BY THE ENGINEER



**Sd1** SILFT FENCE - TYPE "C"



**Sd1** FASTENERS FOR SILT FENCES

### TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

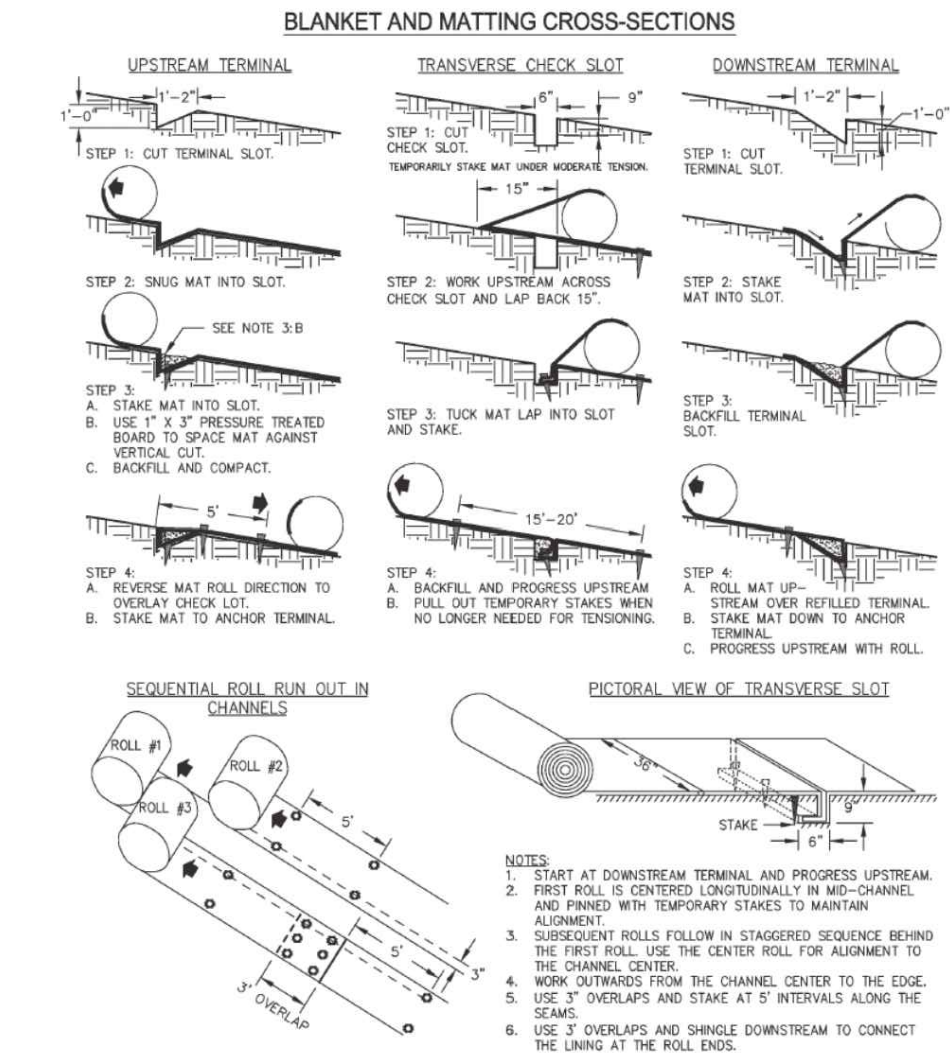
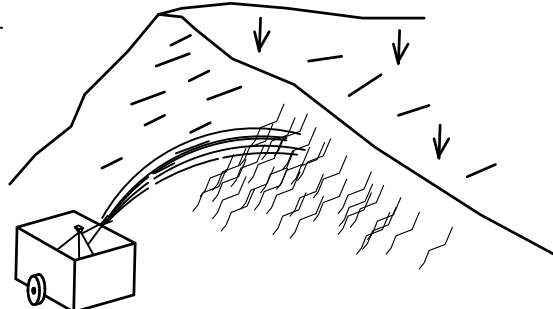


Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

**Mb** MATTING BLANKET

ESTABLISHING A TEMPORARY  
VEGETATIVE COVER WITH FAST  
GROWING SEEDINGS ON  
DISTURBED AREAS.

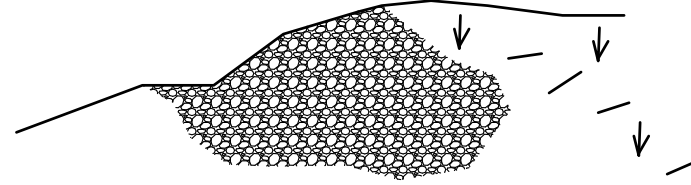
REFER TO "FIELD MANUAL FOR  
EROSION AND SEDIMENT  
CONTROL IN GEORGIA" FOR  
FURTHER DETAILS



| SEEDING SCHEDULE   |                |          |          |
|--------------------|----------------|----------|----------|
| SPECIES            | RATE/1000 S.F. | DATES    | LIME     |
| WINTER RYE         | 3.9 LBS.       | 8/15-1/1 | 1 TON/AC |
| *WEEDING LOVEGRASS | 0.1 LBS.       | 3/7-6/21 | 1 TON/AC |

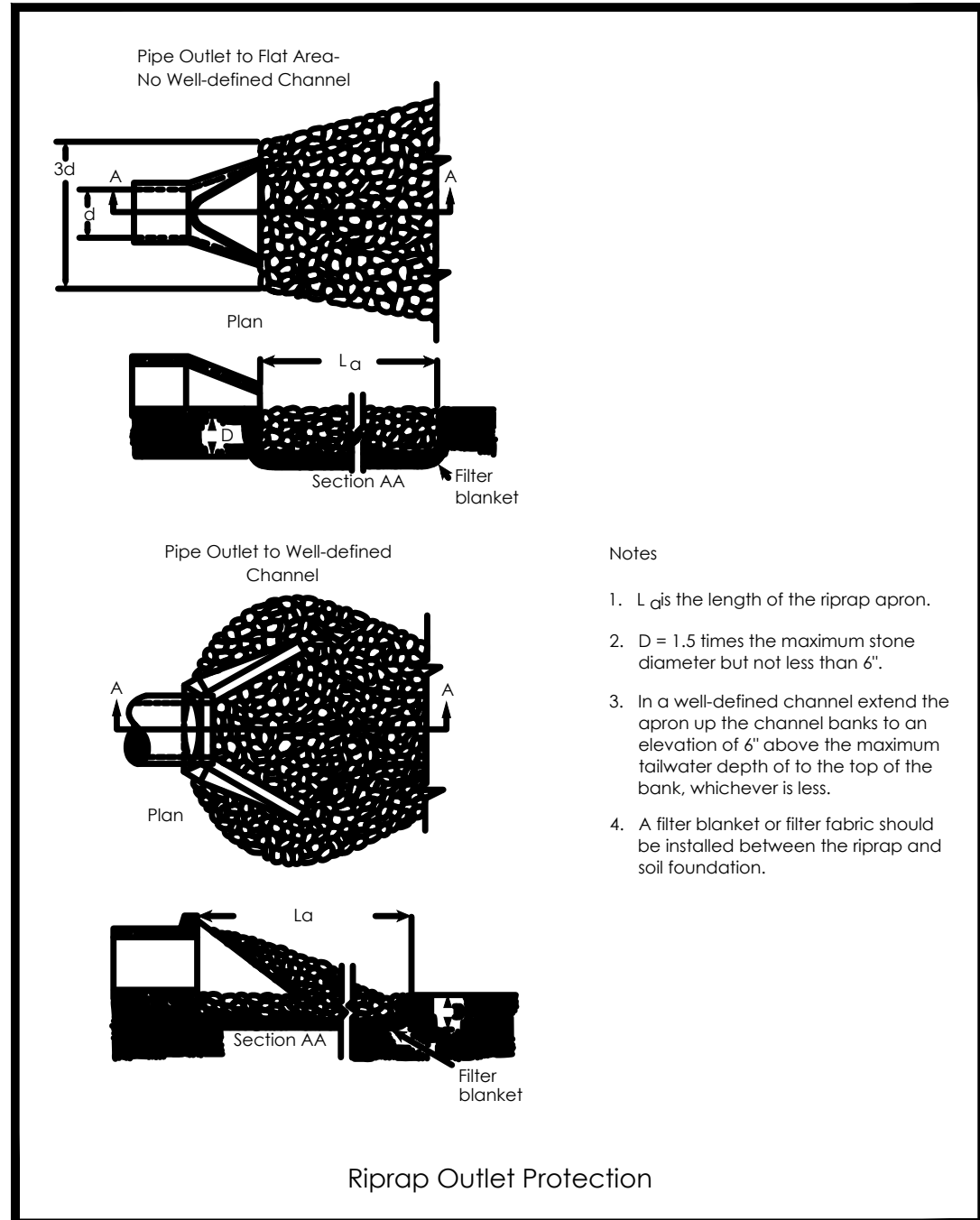
\*HYDROSEED ON ALL 2:1 (H:V) SLOPES.  
\*FOR VERY LOW FERTILITY SOILS USE 500 TO 700 LBS OF 10-10-10 FERTILIZER  
PER ACRE

**3** DISTURBED AREA STABILIZATION  
W/TEMPORARY SEEDING  
SCALE: NONE **Ds2**

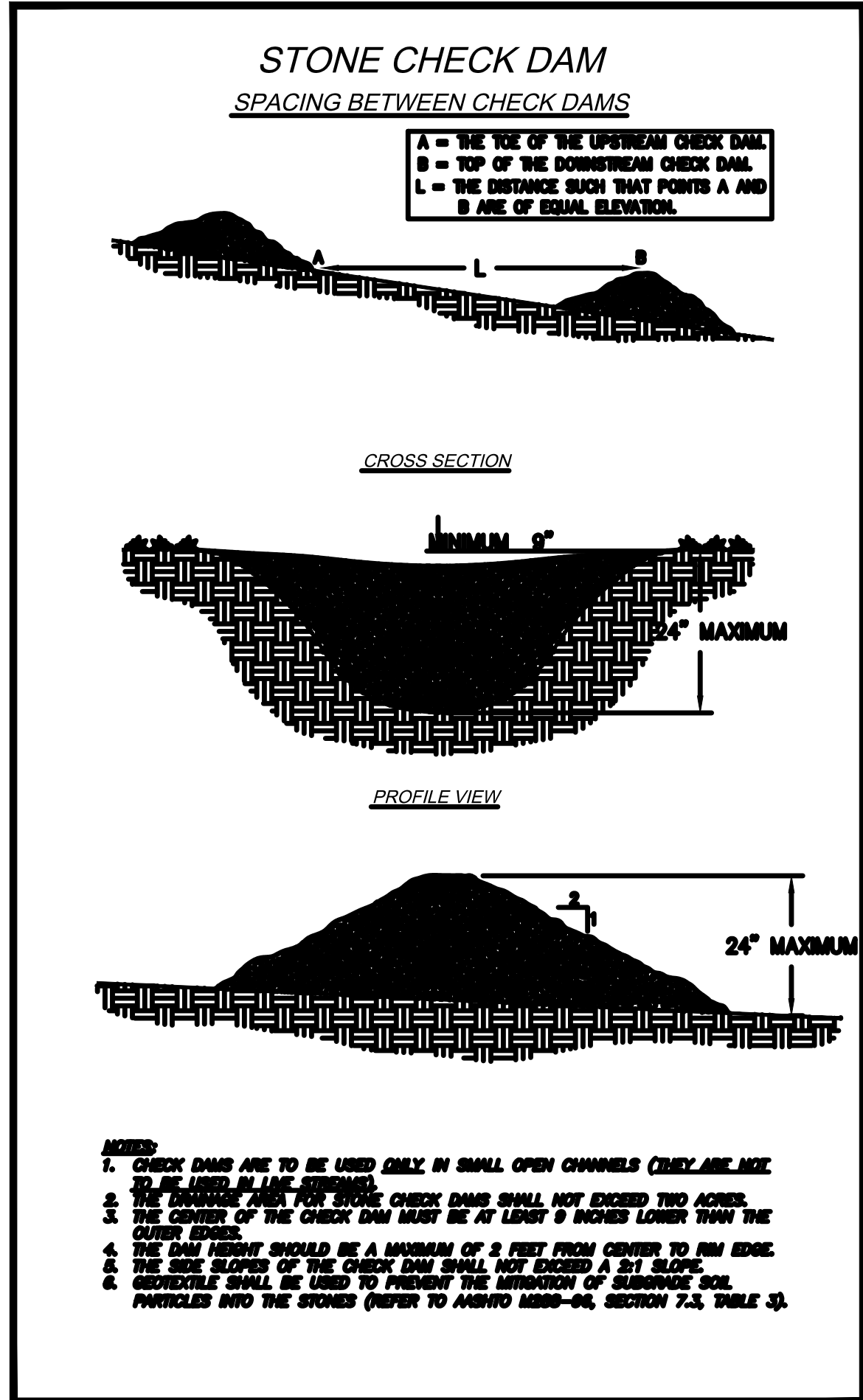


WHEN SEEDING WILL NOT HAVE A SUITABLE GROWING  
SEASON TEMPORARY STABILIZATION MAY BE ACCOMPLISHED  
WITH:  
STRAW - 2 TONS/AC - 2-4"  
DEEP HAY - 2.5 TONS/AC - 2-4"  
DEEP WOOD WASTE, BARK, SAWDUST - 2-3" DEEP

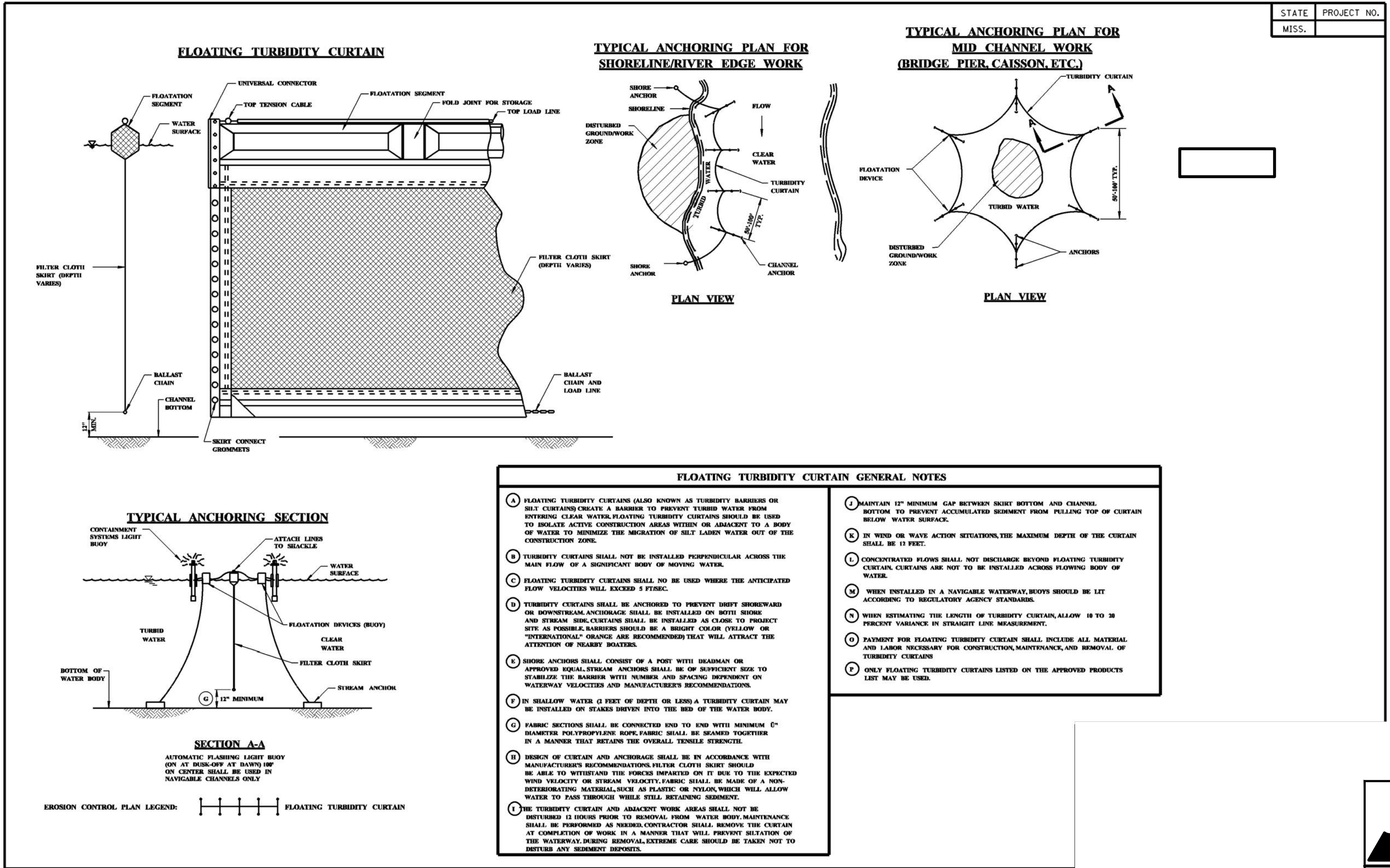
**5** DISTURBED AREA STABILIZATION  
W/TEMPORARY MULCHING  
SCALE: NONE **Ds1**



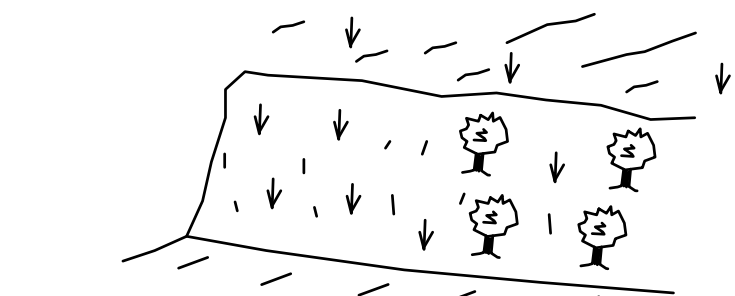
**Sf** RIP-RAP OUTLET PROTECTION



**Cd** CHECK DAM



**Sb-F** FLOATING SEDIMENT BARRIER



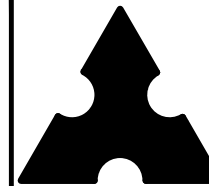
ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES,  
SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED  
AREAS

REFER TO "FIELD MANUAL FOR EROSION AND SEDIMENT  
CONTROL IN GEORGIA" FOR FURTHER DETAILS

| SEEDING SCHEDULE |                |           |          |
|------------------|----------------|-----------|----------|
| SPECIES          | RATE/1000 S.F. | DATES     | LIME     |
| HULLED BERMUDA   | 0.2 LBS.       | 3/1-7/1   | 1 TON/AC |
| UNHULLED BERMUDA | 0.2 LBS.       | 10/1-3/1  | 1 TON/AC |
| FESCUE           | 1.1 LBS.       | 8/15-11/1 | 1 TON/AC |

| COOL SEASON GRASSES - FERTILIZER |          |               |                       |
|----------------------------------|----------|---------------|-----------------------|
|                                  | N-P-K    | RATE (LBS/AC) | TOP DRESSING (LBS/AC) |
| FIRST YEAR                       | 6-12-12  | 1500          | 50-100                |
| SECOND YEAR                      | 6-12-12  | 1000          | -                     |
| MAINTENANCE                      | 10-10-10 | 400           | 30                    |

**7** DISTURBED AREA STABILIZATION  
W/PERMANENT VEGETATION  
SCALE: NONE **Ds3**



**Mallett Consulting, Inc.**  
101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214  
PHONE: 770-719-3333  
FAX: 770-719-3377

### LAKE PENDLETON CULVERT REPLACEMENT FOR TOWN OF TYRONE, GA

#### EROSION CONTROL DETAILS

| PROJECT NUMBER PW-2022-01 |  |  |  |  | LAND LOT | DESIGN | SCALE      |
|---------------------------|--|--|--|--|----------|--------|------------|
|                           |  |  |  |  | DISTRICT | MCI    | AS NOTED   |
|                           |  |  |  |  | SECTION  | ALG    | DATE       |
|                           |  |  |  |  | CITY     | DWJ    | FILE NO.   |
|                           |  |  |  |  | COUNTY   | DWJ    | 21101-16   |
|                           |  |  |  |  | STATE    | DWJ    | SHEET NO.  |
|                           |  |  |  |  |          |        | <b>5.0</b> |

**GSWCC** GEORGIA SOIL AND WATER  
CONSERVATION COMMISSION

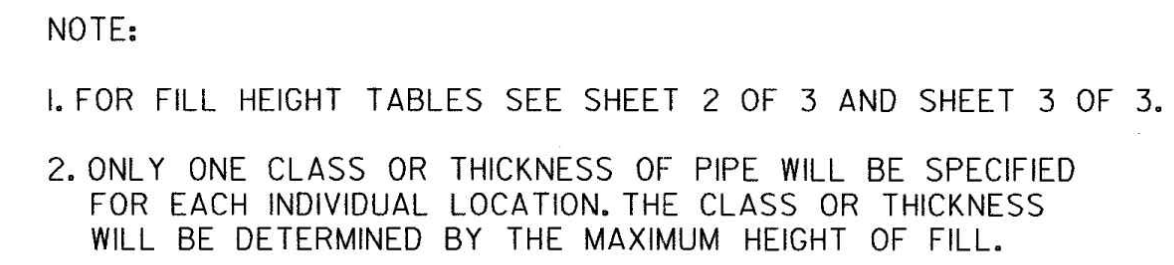
David W Jaeger  
Level II Certified Design Professional

CERTIFICATION NUMBER 0000024056  
ISSUED: 12/14/2021 EXPIRES: 12/14/2024



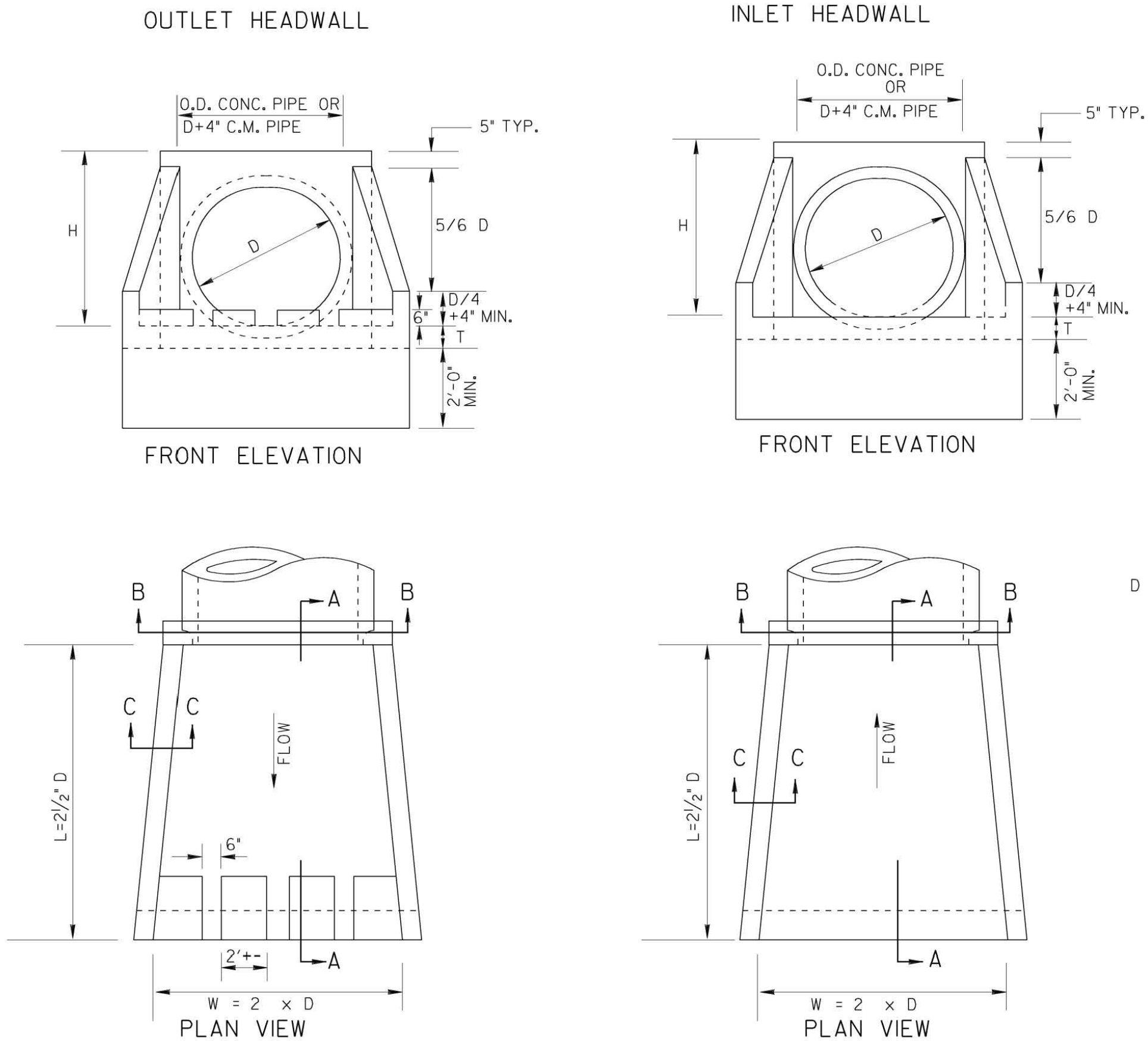
1/15/02 2:43:35 PM \_\\GDDOT-D5N1\G0PLOT\QCF\gord-0c09600-my\ar.qcf\_dorbyd\_M:\standar\Engl\sh\1030d1.pr.65

|  |  |    |          |                                                                                                                                                    |       |
|--|--|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|  |  |    | DATE     | DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA                                                                                                   |       |
|  |  |    | REVISION | STANDARD<br>CONCRETE & METAL PIPE CULVERTS<br>SHEET 10F 3<br>(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)                                           |       |
|  |  |    |          | NO SCALE<br>REV. & REDR.: SEPT., 2001                                                                                                              |       |
|  |  | BY |          | DES. (SUBMITTED) <i>James A. Bennett</i><br>DRW. STATE ROAD & AIRPORT DESIGN ENGR.<br>TRA. (APPROVED) <i>Wm. L. Feltner</i><br>CHK. CHIEF ENGINEER |       |
|  |  |    |          | NUMBER                                                                                                                                             | 1030D |



|                           |      |             |    |                      |                  |              |                   |
|---------------------------|------|-------------|----|----------------------|------------------|--------------|-------------------|
| PROJECT NUMBER PW-2022-01 |      |             |    | CONSTRUCTION DETAILS |                  |              |                   |
|                           |      |             |    |                      | LAND LOT —       | DESIGN MCI   | SCALE AS NOTED    |
|                           |      |             |    |                      | DISTRICT —       | DRAWN ALG    | DATE 07/27/22     |
|                           |      |             |    |                      | SECTION —        | CHECK DWJ    | FILE NO. 21101-16 |
|                           |      |             |    |                      | CITY — TYRONE    | APPROVED DWJ | SHEET NO. 6.0     |
|                           |      |             |    |                      | COUNTY — FAYETTE |              |                   |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D                | STATE — GEORGIA  |              |                   |

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|----------------|-----------|--------------|
| GA.   |                |           |              |



| TABLE NO. 1 - QUANTITIES FOR HEADWALLS |       |        |  |       |        |                                         |        |       |        |  |  |
|----------------------------------------|-------|--------|--|-------|--------|-----------------------------------------|--------|-------|--------|--|--|
| CU. YDS. CONCRETE (PAY QUANTITIES)     |       |        |  |       |        | LBS. STEEL (GIVEN FOR INFORMATION ONLY) |        |       |        |  |  |
| FOR SINGLE LINE                        |       |        |  |       |        | FOR SINGLE LINE                         |        |       |        |  |  |
| D                                      | INLET | OUTLET |  | INLET | OUTLET | INLET                                   | OUTLET | INLET | OUTLET |  |  |
| 15"                                    | 0.87  | 0.93   |  | 0.60  | 0.66   | 102                                     | 113    | 73    | 83     |  |  |
| 18"                                    | 1.10  | 1.16   |  | 0.85  | 0.93   | 106                                     | 117    | 93    | 104    |  |  |
| 24"                                    | 1.61  | 1.69   |  | 1.29  | 1.37   | 127                                     | 138    | 124   | 134    |  |  |
| 30"                                    | 2.21  | 2.32   |  | 1.83  | 1.96   | 170                                     | 180    | 154   | 164    |  |  |
| 36"                                    | 2.92  | 3.05   |  | 2.49  | 2.63   | 238                                     | 254    | 196   | 212    |  |  |
| 42"                                    | 3.73  | 3.87   |  | 3.00  | 3.17   | 290                                     | 306    | 231   | 247    |  |  |
| 48"                                    | 4.62  | 4.80   |  | 3.58  | 3.74   | 335                                     | 351    | 265   | 281    |  |  |
| 54"                                    | 5.63  | 5.83   |  | 4.17  | 4.38   | 407                                     | 428    | 319   | 340    |  |  |
| 60"                                    | 6.72  | 6.95   |  | 4.82  | 5.01   | 456                                     | 477    | 360   | 391    |  |  |
| 72"                                    | 9.22  | 9.48   |  | 6.24  | 6.46   | 623                                     | 649    | 475   | 494    |  |  |
| 84"                                    | 14.84 | 15.19  |  | 9.05  | 9.29   | 1517                                    | 1539   | 1017  | 1044   |  |  |
| 96"                                    | 18.88 | 19.27  |  | 11.13 | 11.41  | 2118                                    | 2150   | 1323  | 1350   |  |  |

\*NOTE:  
QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS 'A' CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D = INSIDE DIAMETER OF PIPE CULVERT

H = D + 10" MIN. FOR C.M. PIPE

H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE  
(13/12 D + 9" TYP.)

T = 8" FOR D = 72" OR LESS

T = 10" FOR D = OVER 72"

\* - USE SECTION B-B  
FOR MULTI-PIPE.

NOTE: PRECAST HEADWALL MAY BE  
SUBSTITUTED FOR CAST-IN-PLACE  
AT NO ADDITIONAL COST. SUBMIT  
SHOP DWG. TO ENGINEER FOR  
APPROVAL PRIOR TO FABRICATION.

|                                                     |                                                                             |                 |
|-----------------------------------------------------|-----------------------------------------------------------------------------|-----------------|
| DATE                                                | DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA                            |                 |
| REVISION                                            | STANDARD<br>TAPERED<br>INLET HEADWALL - OUTLET HEADWALL<br>(BUILT-IN-PLACE) |                 |
| NO SCALE                                            | REV. & REDR. OCT., 1999                                                     | NUMBER<br>1125  |
| DES. (SUBMITTED)                                    | TRA. (APPROVED)                                                             | CHK. (APPROVED) |
| STATE ROAD & AIRPORT DESIGN ENGR.<br>CHIEF ENGINEER |                                                                             |                 |



| PROJECT NUMBER PW-2022-01 |      |             |    |       | CONSTRUCTION DETAILS (CONT.) |         |               |
|---------------------------|------|-------------|----|-------|------------------------------|---------|---------------|
|                           |      |             |    |       | LAND LOT                     | DESIGN  | SCALE         |
|                           |      |             |    |       | DISTRICT                     | MCI     | AS NOTED      |
|                           |      |             |    |       | SECTION                      | DRAWN   | DATE          |
|                           |      |             |    |       | CITY                         | ALG     | 07/27/22      |
|                           |      |             |    |       | COUNTY                       | DWJ     | FILE NO.      |
|                           |      |             |    |       | APPROVED                     | DWJ     | 21101-16      |
| REV. No.                  | DATE | DESCRIPTION | BY | APP'D | STATE                        | GEORGIA | SHEET NO. 7.0 |

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FAX: 770-719-3377

**LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA**

**CONSTRUCTION DETAILS (CONT.)**

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6/18/2007 10:39:20 AM \\s001\DSN\BOP\07\005\Fig\1111\_output.qdt gdwahs M:\BOP\10300\page 22.plt

TABLE NO.1 ROUND PIPE – CONCRETE – CORRUGATED STEEL – CORRUGATED ALUMINUM  
MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

| PIPE<br>DIAMETER<br>(INCHES) | TYPE     | MINIMUM<br>COVER<br>(INCHES) | HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE |         |         |         |         |         |         |         |         |         | PIPE<br>DIAMETER<br>(INCHES) |         |  |  |
|------------------------------|----------|------------------------------|------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------------------|---------|--|--|
|                              |          |                              | 1 - 10                                   | 10 - 15 | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 50 | 50 - 60 | 60 - 70 | 70 - 80                      | 80 - 90 |  |  |
| 12                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
|                              | ALUM 1   | 12                           | .060                                     | .060    | .060    | .060    | .075    | .075    | .075    | .075    | .075    | .075    | .075                         | .075    |  |  |
| 15                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
|                              | ALUM 1   | 12                           | .060                                     | .060    | .060    | .060    | .075    | .075    | .075    | .075    | .075    | .075    | .075                         | .105    |  |  |
| 18                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
|                              | ALUM 1   | 12                           | .060                                     | .060    | .060    | .060    | .075    | .075    | .075    | .075    | .105    | .105    | .105                         | .105    |  |  |
| 24                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .079                         | .079    |  |  |
|                              | ALUM 1   | 12                           | .060                                     | .060    | .060    | .075    | .075    | .075    | .075    | .105    | .105    | .105    | .105                         | .105    |  |  |
| 30                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .079                         | .109    |  |  |
|                              | ALUM 1   | 12                           | .060                                     | .060    | .060    | .075    | .075    | .105    | .105    | .105    | .135    | .135    | .135                         | .135    |  |  |
| 36                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .079    | .079    | .109    | .109                         | .138    |  |  |
|                              | STEEL 2  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .079    | .109                         | .109    |  |  |
| 42                           | ALUM 1   | 12                           | .105                                     | .105    | .135    | .135    | .164    | .164    | .164    | .164    | .164    | .164    | .164                         | .164    |  |  |
|                              | ALUM 2   | 12                           | .060                                     | .060    | .060    | .060    | .075    | .075    | .105    | .105    | .105    | .135    | .135                         | .135    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
| 48                           | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
|                              | STEEL 2  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
|                              | ALUM 1   | 12                           | .105                                     | .105    | .135    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164                         | .164    |  |  |
| 54                           | ALUM 2   | 12                           | .060                                     | .060    | .060    | .075    | .075    | .105    | .105    | .105    | .135    | .135    | .135                         | .135    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
| 60                           | STEEL 2  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
|                              | ALUM 1   | 15                           | .135                                     | .135    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164                         | .164    |  |  |
|                              | ALUM 2   | 15                           | .060                                     | .060    | .075    | .075    | .105    | .105    | .135    | .135    | .164    | .164    | .164                         | .164    |  |  |
| 66                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 12                           | .138                                     | .138    | .138    | .138    | .138    | .138    | .138    | .138    | .138    | .138    | .138                         | .138    |  |  |
|                              | STEEL 2  | 12                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
| 72                           | ALUM 1   | 18                           | .164                                     | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164                         | .164    |  |  |
|                              | ALUM 2   | 18                           | .075                                     | .075    | .105    | .105    | .135    | .135    | .135    | .135    | .135    | .135    | .135                         | .135    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
| 78                           | STEEL 1  | 15                           | .168                                     | .168    | .168    | .168    | .168    | .168    | .168    | .168    | .168    | .168    | .168                         | .168    |  |  |
|                              | STEEL 2  | 15                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
|                              | ALUM 2   | 21                           | .075                                     | .075    | .105    | .105    | .135    | .135    | .135    | .135    | .135    | .135    | .135                         | .135    |  |  |
| 84                           | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 1  | 15                           | .168                                     | .168    | .168    | .168    | .168    | .168    | .168    | .168    | .168    | .168    | .168                         | .168    |  |  |
|                              | STEEL 2  | 15                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
| 90                           | ALUM 2   | 21                           | .105                                     | .105    | .105    | .135    | .135    | .164    | .164    | .164    | .164    | .164    | .164                         | .164    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
|                              | STEEL 2  | 18                           | .064                                     | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064    | .064                         | .064    |  |  |
| 96                           | ALUM 2   | 24                           | .135                                     | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135                         | .135    |  |  |
|                              | STEEL 2  | 18                           | .079                                     | .079    | .079    | .079    | .079    | .079    | .079    | .079    | .079    | .079    | .079                         | .079    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
| 102                          | ALUM 2   | 24                           | .135                                     | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135                         | .135    |  |  |
|                              | STEEL 2  | 24                           | .079                                     | .079    | .079    | .079    | .079    | .079    | .079    | .079    | .079    | .079    | .079                         | .079    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
| 108                          | ALUM 2   | 24                           | .135                                     | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135    | .135                         | .135    |  |  |
|                              | STEEL 2  | 24                           | .109                                     | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109                         | .109    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
| 114                          | STEEL 2  | 24                           | .109                                     | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109                         | .109    |  |  |
|                              | ALUM 2   | 24                           | .164                                     | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164                         | .164    |  |  |
|                              | CONCRETE | 12                           | III                                      | III     | IV      | V       | V       | V       | V       | V       | V       | V       | V                            | V       |  |  |
| 120                          | STEEL 2  | 24                           | .109                                     | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109    | .109                         | .109    |  |  |
|                              | ALUM 2   | 24                           | .164                                     | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164    | .164                         | .164    |  |  |

IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDITIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3.

| TABLE NO.3 (INFORMATION ONLY)        |       |                                      |       |
|--------------------------------------|-------|--------------------------------------|-------|
| COR. METAL THICKNESS EQUIVALENT GAGE |       | COR. METAL THICKNESS EQUIVALENT GAGE |       |
| STEEL                                | .064  | ALUMINUM                             | .0060 |
|                                      | .0079 |                                      | .0075 |
|                                      | .009  |                                      | .0085 |
|                                      | .0105 |                                      | .0095 |

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

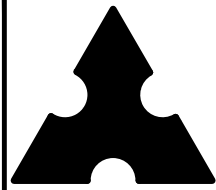
TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI), THE TABLE NO.1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES)

B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|----------------|-----------|--------------|
| GA.   |                |           |              |

|                                                                                                                   |                                  |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------|
| DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA                                                                  |                                  |
| STANDARD<br>CONCRETE & METAL PIPE CULVERTS<br>SHEET 2 OF 3<br>(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE) |                                  |
| NO SCALE                                                                                                          | OCTOBER 21, 1998                 |
| DES. BY: (SUBMITTED) <i>Joseph A. Kinnel</i>                                                                      | STATE NO. 2 AIRPORT DESIGN ENGR. |
| CHK. BY: (APPROVED) <i>John L. Latta</i>                                                                          | CHIEF ENGINEER                   |
| NUMBER 1030D                                                                                                      |                                  |



Mallett Consulting, Inc.  
101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214  
PHONE: 770-719-3333  
FAX: 770-719-3377

LAKE PENDLETON CULVERT REPLACEMENT  
FOR TOWN OF TYRONE, GA

CONSTRUCTION DETAILS (CONT.)

|                           |      |             |  |                              |                  |                 |          |           |          |
|---------------------------|------|-------------|--|------------------------------|------------------|-----------------|----------|-----------|----------|
| PROJECT NUMBER PW-2022-01 |      |             |  | CONSTRUCTION DETAILS (CONT.) |                  |                 |          |           |          |
|                           |      |             |  |                              | LAND LOT —       | DESIGN          | MCI      | SCALE     | AS NOTED |
|                           |      |             |  |                              | DISTRICT —       | DRAWN           |          | DATE      | 07/27/22 |
|                           |      |             |  |                              | SECTION —        |                 | ALG      |           |          |
|                           |      |             |  |                              | CITY — TYRONE    | CHECK           |          | FILE NO.  |          |
|                           |      |             |  |                              | COUNTY — FAYETTE |                 | DWJ      | 21101-16  |          |
| REV. No.                  | DATE | DESCRIPTION |  | BY                           | APP'D            | STATE — GEORGIA | APPROVED | SHEET NO. | 8.0      |
|                           |      |             |  |                              |                  |                 | DWJ      |           |          |

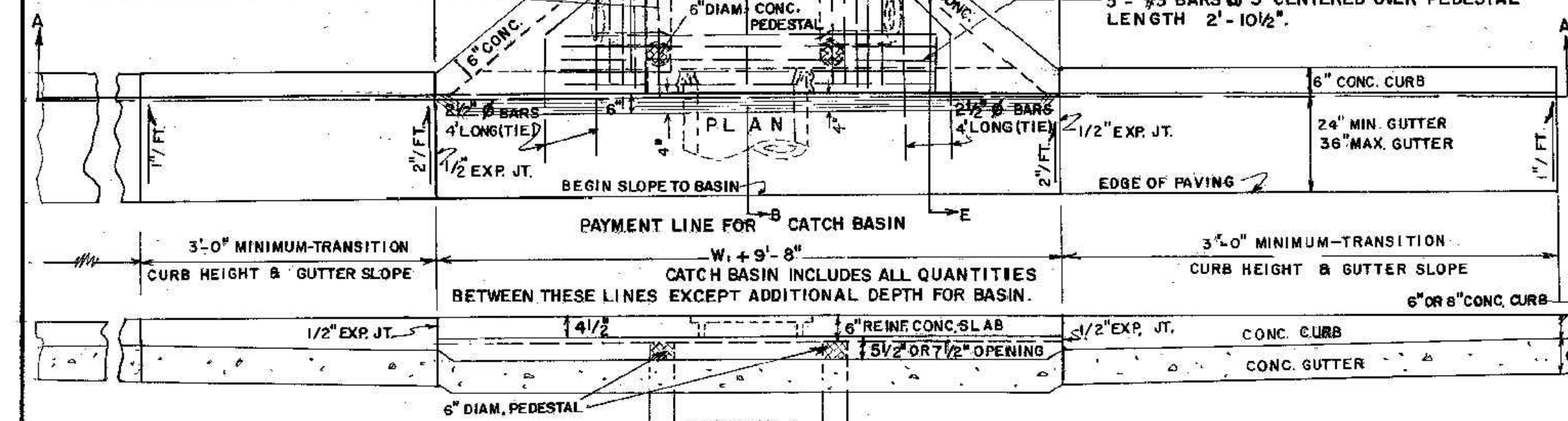


AP 21860

# CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)

NOTE: OPENING FOR PIPE SHALL BE THE OUTSIDE DIAMETER OF THE REQUIRED PIPE PLUS 1" MINIMUM OPENING SHALL HAVE CORRUGATIONS.

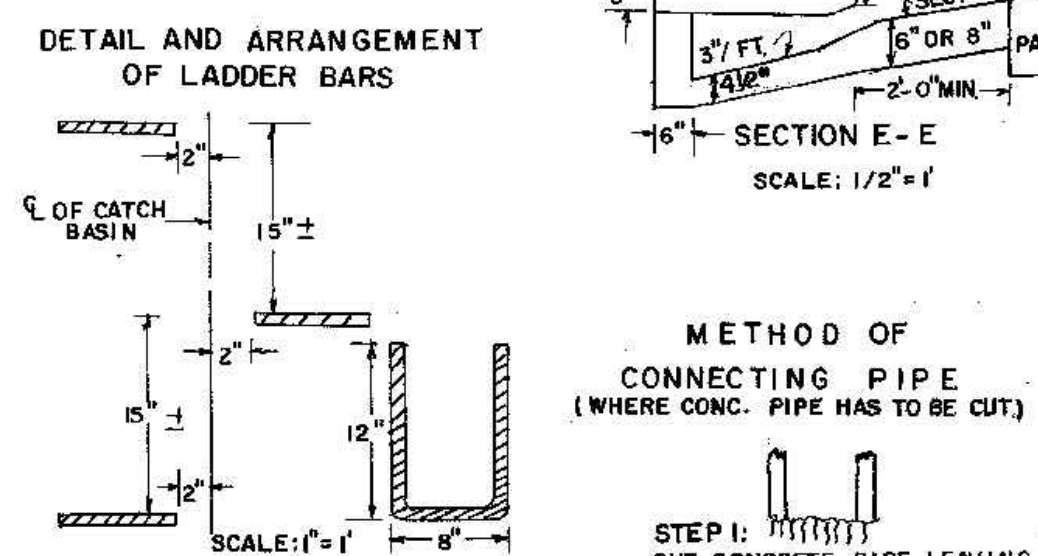
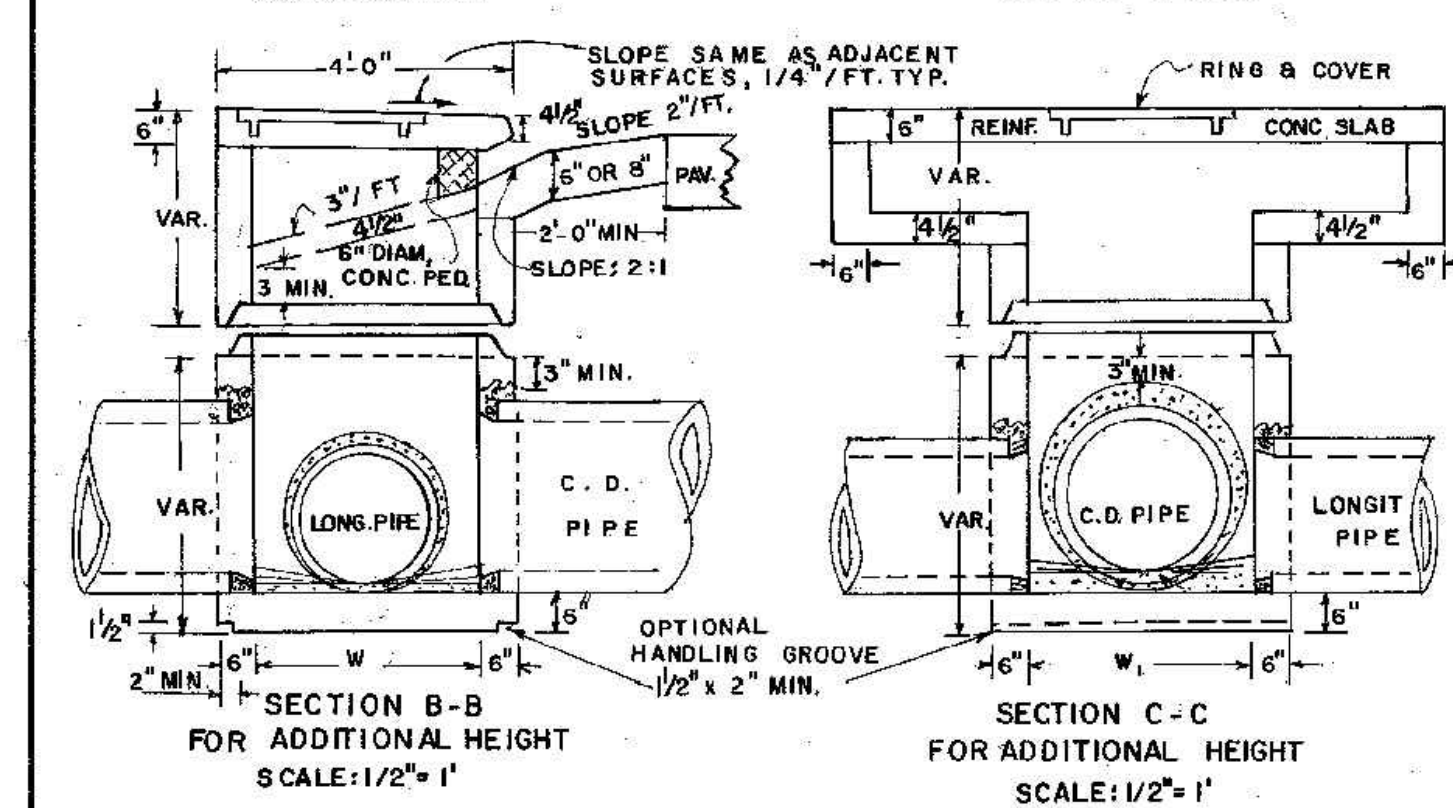
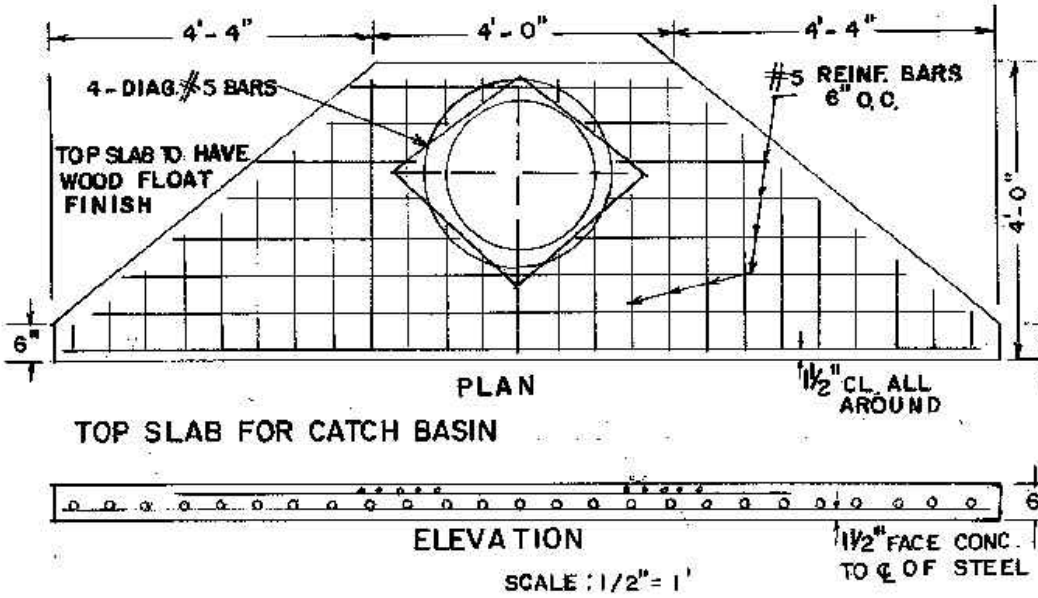
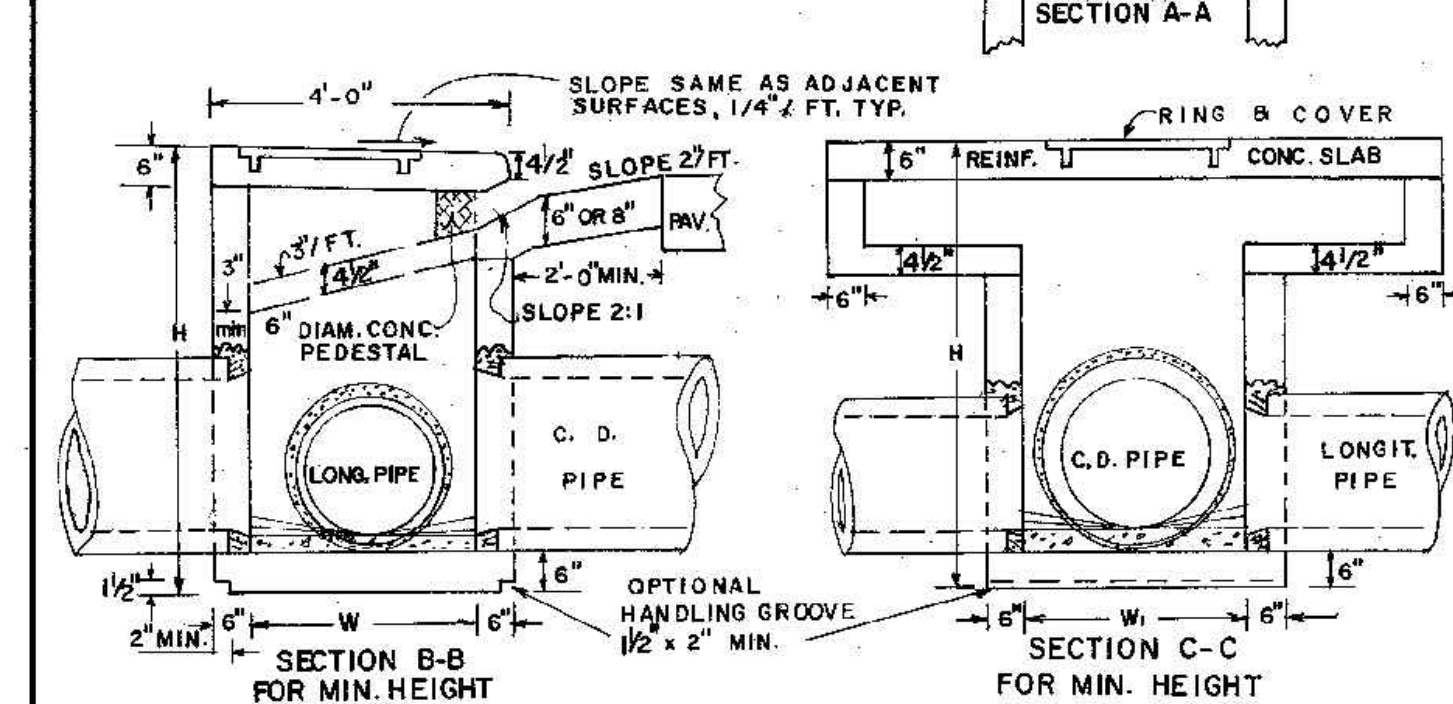
5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH  $W_1 + 4' - 8"$



NOTE FOR ALL CATCH BASINS

1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH  $2' - 10 1/2"$



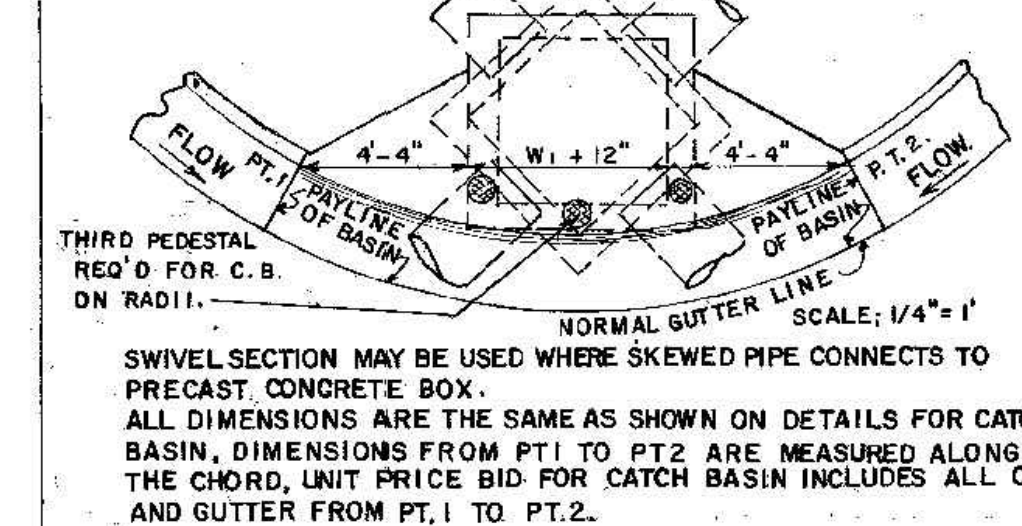
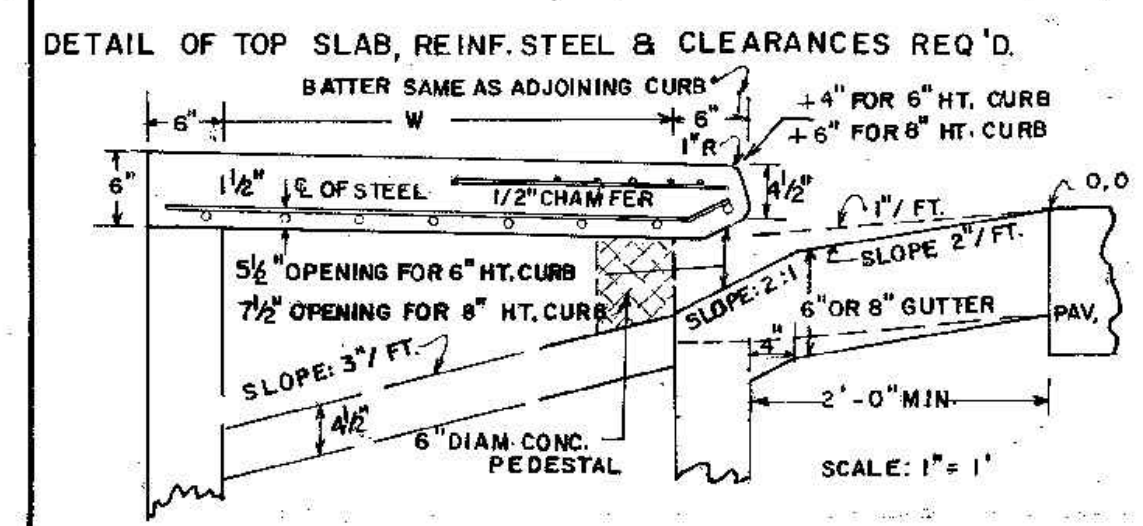
METHOD OF CONNECTING PIPE (WHERE CONC. PIPE HAS TO BE CUT)

STEP 1: CUT CONCRETE PIPE LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED

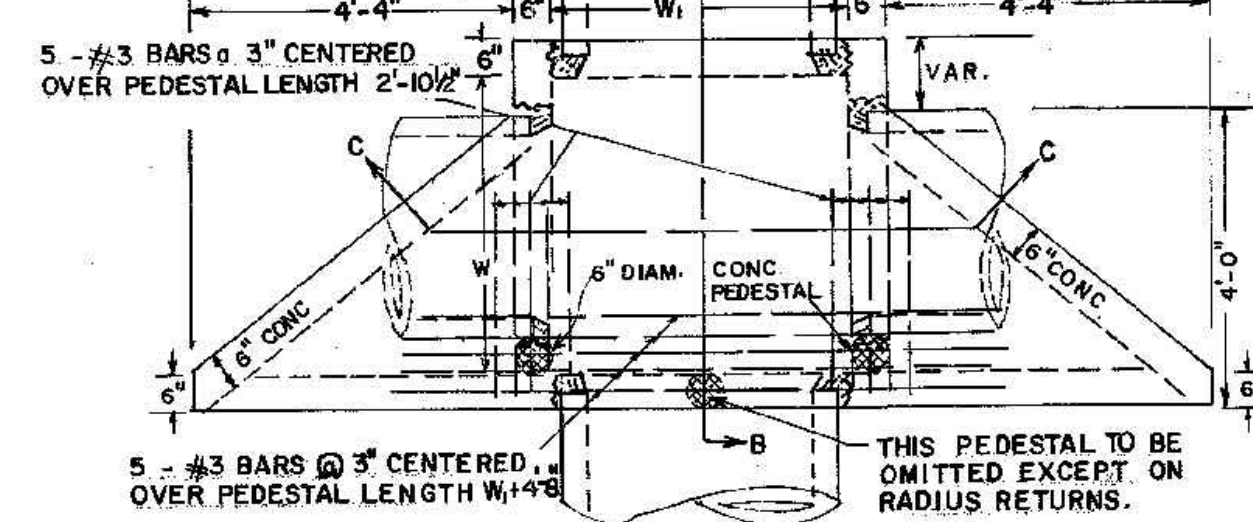
STEP 2: POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL

STEP 3: POSITION CONICAL CONE INSIDE OF PIPE AND SEAL WITH GROUT (1/2" MIN. THICKNESS OF GROUT). REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.

NO SCALE



# CATCH BASIN (TYPICAL FOR CATCH BASIN WITH LONGITUDINAL PIPE OVER 24")



5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH  $2' - 10 1/2"$

THIS PEDESTAL TO BE OMITTED EXCEPT ON RADIUS RETURNS.

PLAN

SLOPE SAME AS ADJACENT SURFACES

SECTION B-B

SCALE: 1/2" = 1'

SECTION C-C

SCALE: 1/2" = 1'

OPTIONAL HANDLING GROOVE 1/2" x 2" MIN.

SCALE: 1/2" = 1'

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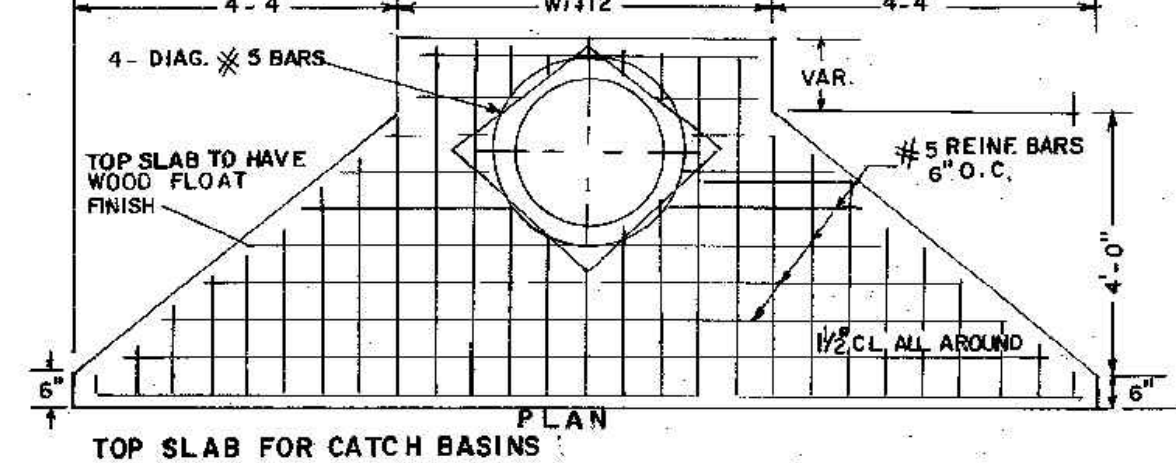
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SCALE: 1/2" = 1'



5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH  $2' - 10 1/2"$

THIS PEDESTAL TO BE OMITTED EXCEPT ON RADIUS RETURNS.

PLAN

SLOPE SAME AS ADJACENT SURFACES

SECTION B-B

SCALE: 1/2" = 1'

SECTION C-C

SCALE: 1/2" = 1'

OPTIONAL HANDLING GROOVE 1/2" x 2" MIN.

SCALE: 1/2" = 1'

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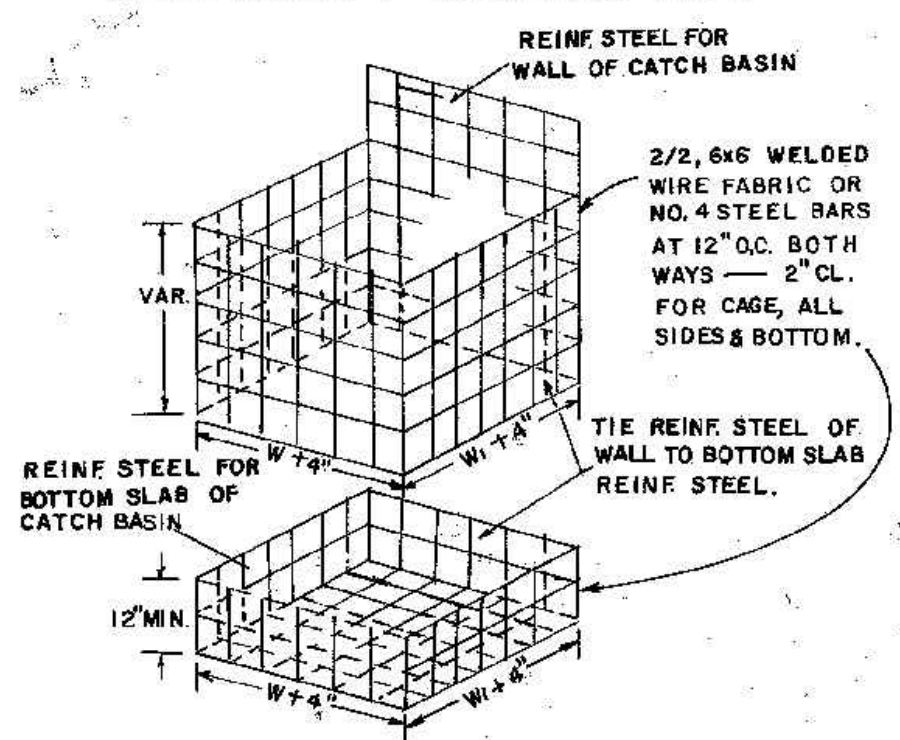
SCALE: 1/2" = 1'

SCALE: 1/2" = 1'

SCALE: 1/2" = 1'

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|----------------|-----------|--------------|
| GA    |                |           |              |

## REINFORCING - ISOMETRIC VIEW



NOTE: REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1040.

ALL JOINTS BETWEEN PRECAST RISERS OR BETWEEN PRECAST BASE AND RISER WILL BE KEYS. KEYS JOINTS SHOWN ARE TYPICAL AND MAY BE VARIED.

NOTE: DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & H DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE: BUILT-IN-PLACE, PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE: FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1034 D FOR BUILT-IN-PLACE CATCH BASIN.

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## DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## STANDARD PRECAST CATCH BASINS FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

| PIPE SIZE | NORMAL W OR W <sub>1</sub> | MIN. H |
|-----------|----------------------------|--------|
| 12"       | 3'-0"                      | 4'-4"  |
| 15"       | 3'-0"                      | 4'-7"  |
| 18"       | 3'-0"                      | 4'-10" |
| 24"       | 3'-0"                      | 5'-6"  |
| 30"       | 3'-0"                      | 6'-2"  |
| 36"       | 4'-0"                      | 6'-10" |
| 42"       | 5'-0"                      | 7'-4"  |
| 48"       | 5'-0"                      | 8'-0"  |
| 54"       | 6'-0"                      | 8'-6"  |
| 60"       | 6'-0"                      | 9'-2"  |

SCALE AS SHOWN

REV. & REDR. 9/SEPT. 1982

REV. & REDR. 9/SEPT. 1982

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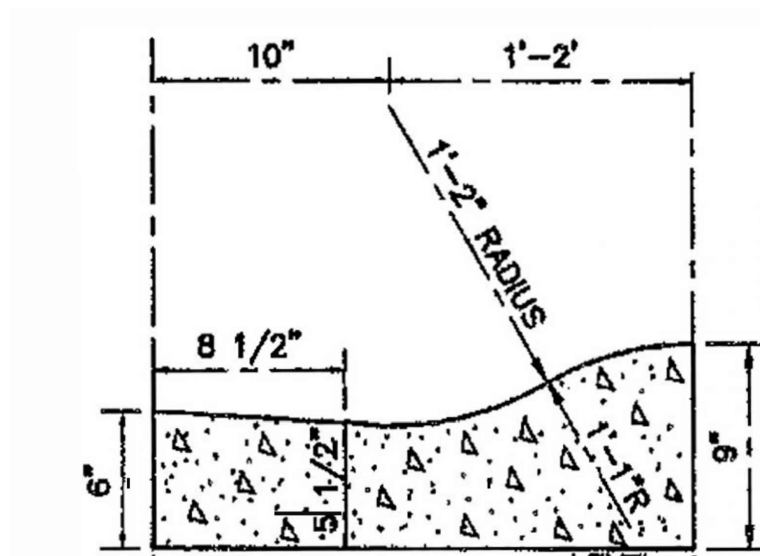
REV. & REDR. 9/SEPT. 1982

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FORM 103



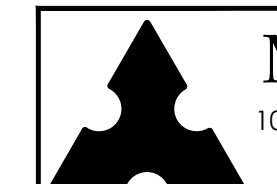
ROLLOVER CURB  
DETAIL



PROJECT NUMBER PW-2022-01

| REV. NO. | DATE | DESCRIPTION | BY | APPD. |
|----------|------|-------------|----|-------|
|          |      |             |    |       |

| LAND LOT | DESIGN   | SCALE     |
|----------|----------|-----------|
|          | MCI      | AS NOTED  |
| DISTRICT | DRAWN    | DATE      |
|          | ALG      | 07/27/22  |
| SECTION  | CHECK    | FILE NO.  |
|          | DWJ      | 21101-16  |
| CITY     | APPROVED | SHEET NO. |
| TYRONE   | DWJ      | 9.0       |
| COUNTY   |          |           |
| FAYETTE  |          |           |
| STATE    |          |           |
| GEORGIA  |          |           |



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FAX: 770-719-3377

## LAKE PENDLETON CULVERT REPLACEMENT FOR TOWN OF TYRONE, GA

## CONSTRUCTION DETAILS (CONT.)