

LAKE PENDLETON
(NORMAL POOL 919.40)

EXISTING CATCH BASINS

BM-CAPPED RB
N 1266921.5343
E 2174101.4235
Z 925.30

EXISTING PRINCIPAL SPILLWAY RISER
72" Dia. STAND PIPE
(10' Dia. TRASH RACK)
WATER SURFACE/CREST 919.4
INV 908.4

EXISTING EMERGENCY SPILLWAY PIPES
36" CMP (x3)
INV 922.41
INV 922.37
INV 922.22

EXISTING PRIVATE CATCH BASIN
TOP 923.49
IN 919.15
OUT 919.09

EXISTING PRIVATE RESIDENCE (GAXIOLA)

EXISTING TREES AND SHRUBS SHALL BE REMOVED COMPLETELY, INCLUDING ROOTBALL AND BACKFILLED AND COMPACTED W/SELECT SOILS.

EXISTING COMMUNITY CLUBHOUSE

EXISTING SWIMMING POOL

EXISTING 78" CMP STORM PIPE

EXISTING DROP INLET

EXISTING TENNIS COURTS

EXISTING BASKETBALL COURT

EXISTING ASPHALT WALKING PATH

EXISTING 54" CMP PRINCIPAL SPILLWAY PIPE-W/CONC HEADWALL

EXISTING PLUNGE POOL AND OUTLET CHANNEL

EXIST. EMERGENCY SPILLWAY PIPES
36" CMP (x3)
INV 910.27
INV 910.36
INV 910.02

EXISTING RIP RAP OUTLET CHANNEL

EXISTING PRIVATE RESIDENCE (BURKE-DEITER)

SEE NOTE REGARDING REMOVAL OF EXISTING TREES & SHRUBS

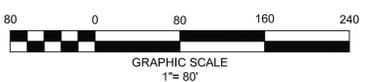
FIELD WORK FOR EXISTING CONDITIONS SURVEY DATED 5-15-2018



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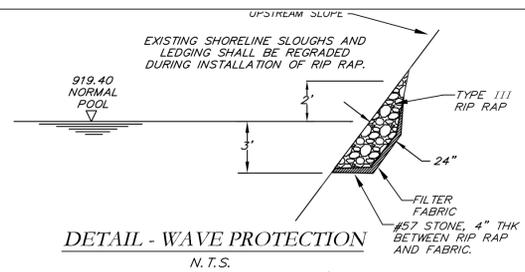
PENDLETON LAKE DAM

EXISTING CONDITIONS

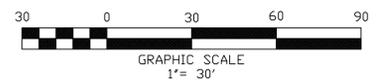
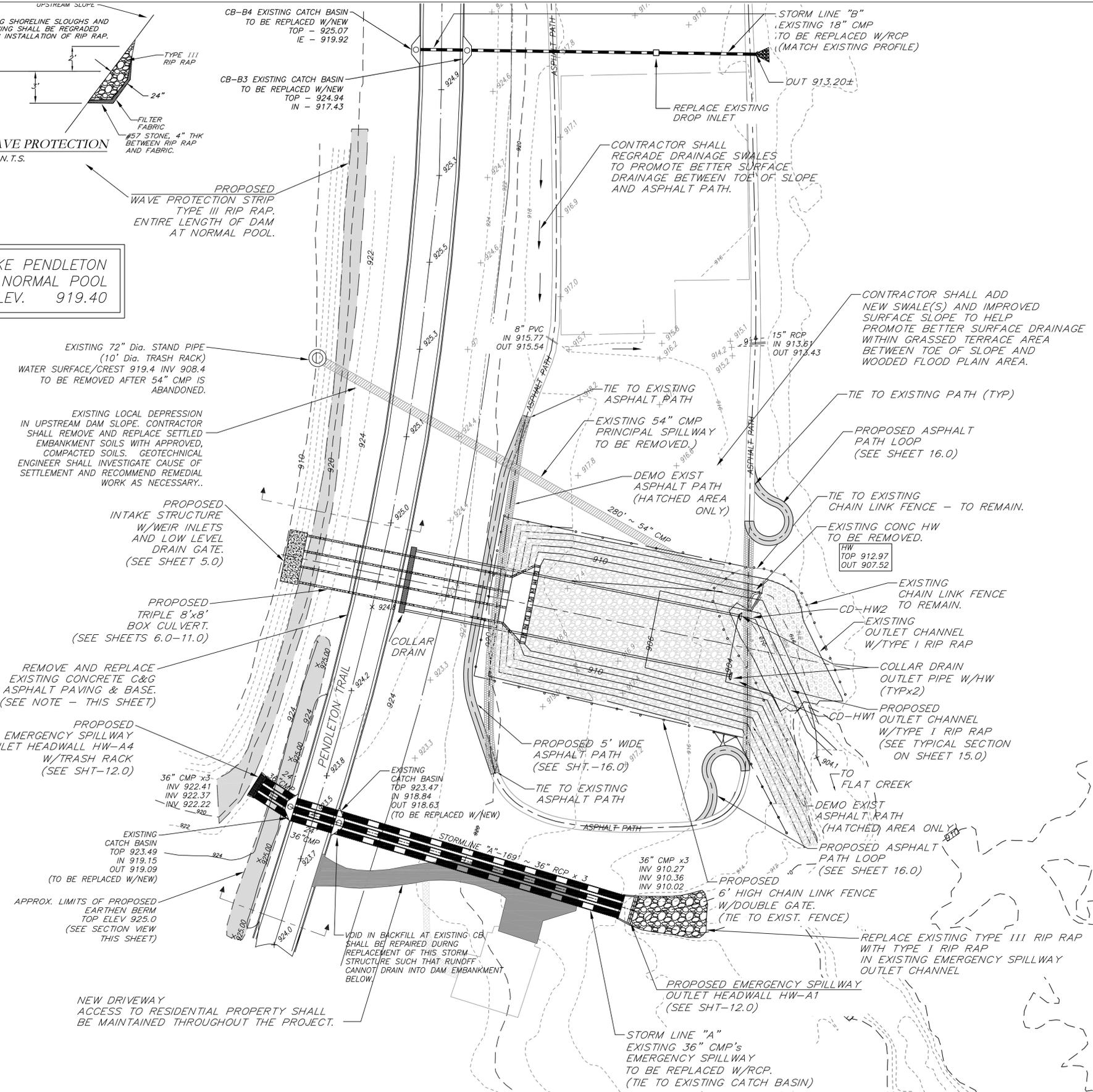
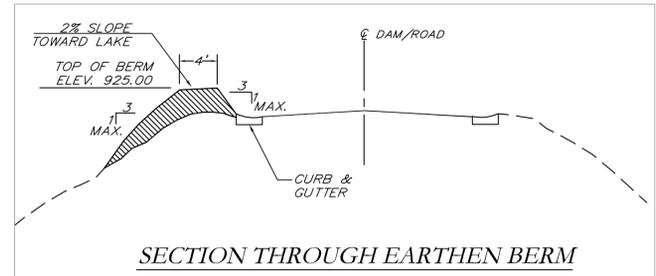
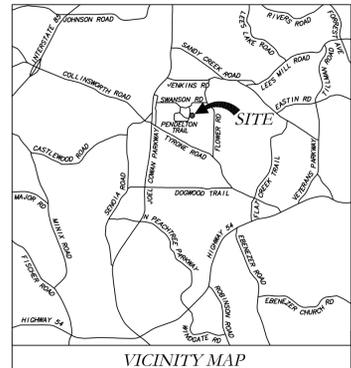


REV. No.	DATE	DESCRIPTION	BY	APP'D
3	5-10-24	PER SDP REVIEW	DWJ	DWJ
2	7-10-23	PER SDP REVIEW	DWJ	DWJ
1	1/15/21	PER SDP REVIEW	JLP	DWJ

LAND LOT -	DESIGN	MCI	SCALE	1"=80'
DISTRICT -	DRAWN	JLP & DWJ	DATE	10/21/19
SECTION -	CHECK	DWJ	FILE NO.	18101-24
CITY -	APPROVED	DWJ	SHEET NO.	2.0
COUNTY - FAYETTE				
STATE - GEORGIA				



LAKE PENDLETON
NORMAL POOL
ELEV. 919.40



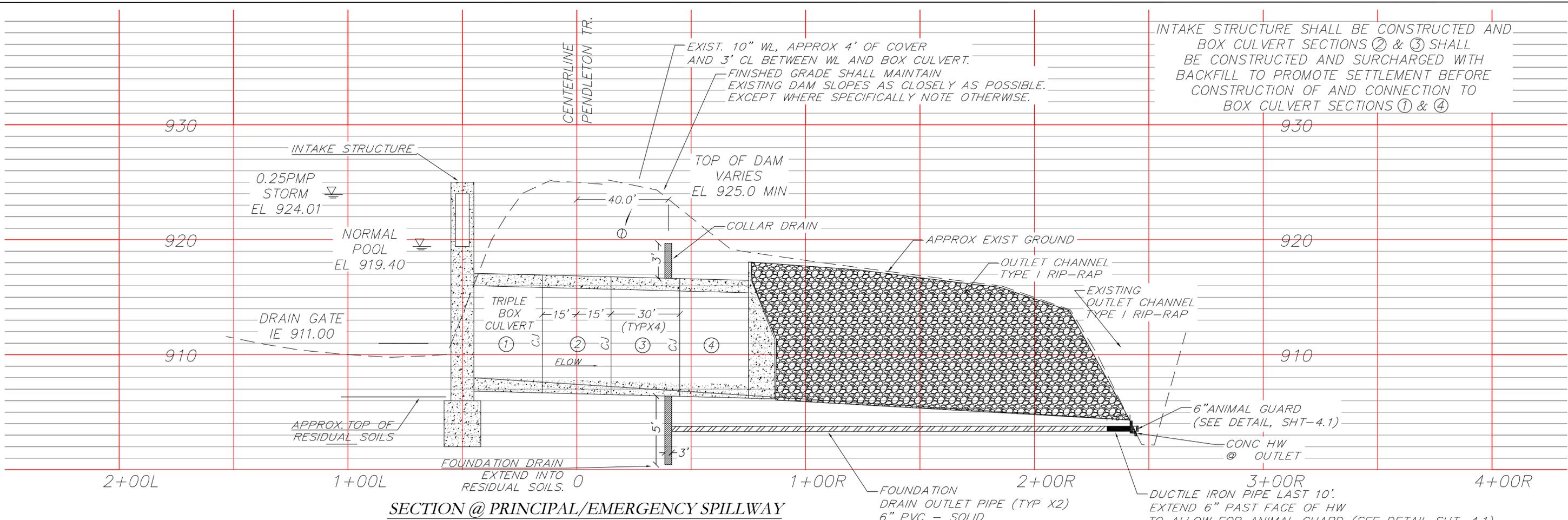
SEE SHEET 16.0
FOR ASPHALT PATH
MODIFICATIONS

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CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

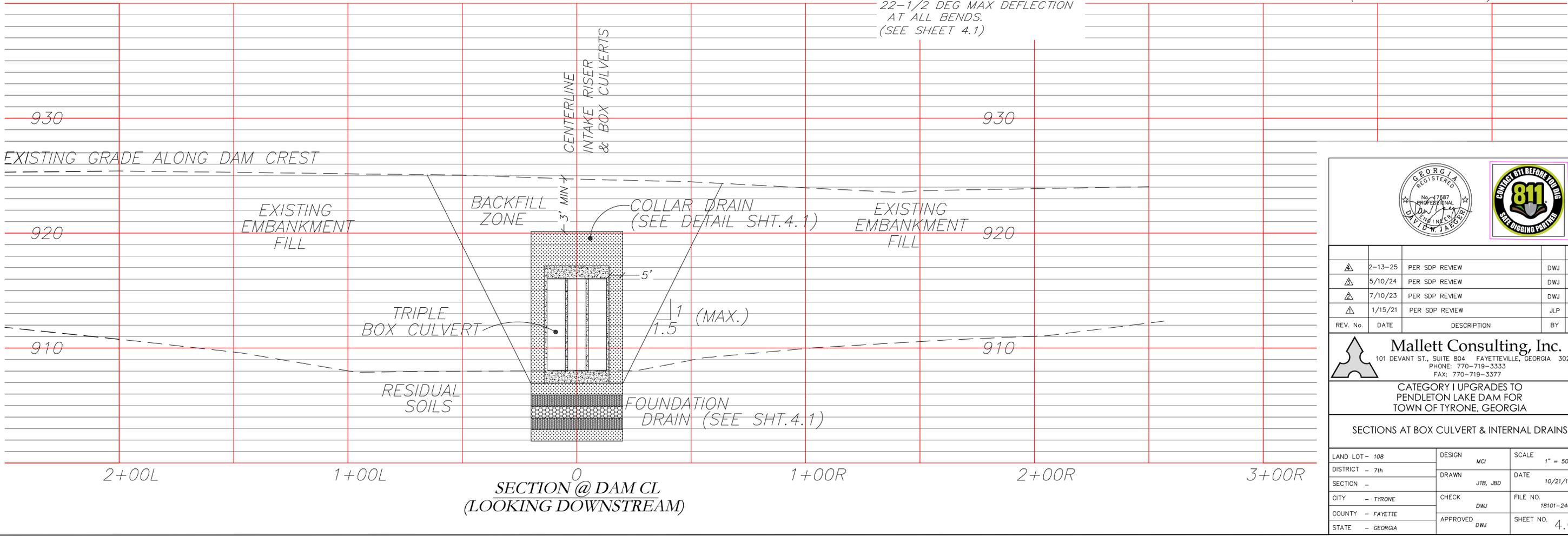
SITE PLAN	
LAND LOT - 108	DESIGN MCI
DISTRICT - 7th	SCALE 1" = 30'
SECTION -	DRAWN JTB, DWJ
CITY - TYRONE	CHECK DWJ
COUNTY - FAYETTE	APPROVED DWJ
STATE - GEORGIA	DATE 10/21/19
	FILE NO. 18101-24C
	SHEET NO. 3.0

REV. No.	DATE	DESCRIPTION	BY	APP'D
1	2/13/25	PER SDP REVIEW	DWJ	DWJ
2	5/10/24	PER SDP REVIEW	DWJ	DWJ
3	7/10/23	PER SDP REVIEW	DWJ	DWJ
4	1/15/21	PER SDP REVIEW	JLP	DWJ



SECTION @ PRINCIPAL/EMERGENCY SPILLWAY

INTAKE STRUCTURE SHALL BE CONSTRUCTED AND BOX CULVERT SECTIONS ② & ③ SHALL BE CONSTRUCTED AND SURCHARGED WITH BACKFILL TO PROMOTE SETTLEMENT BEFORE CONSTRUCTION OF AND CONNECTION TO BOX CULVERT SECTIONS ① & ④



SECTION @ DAM CL (LOOKING DOWNSTREAM)

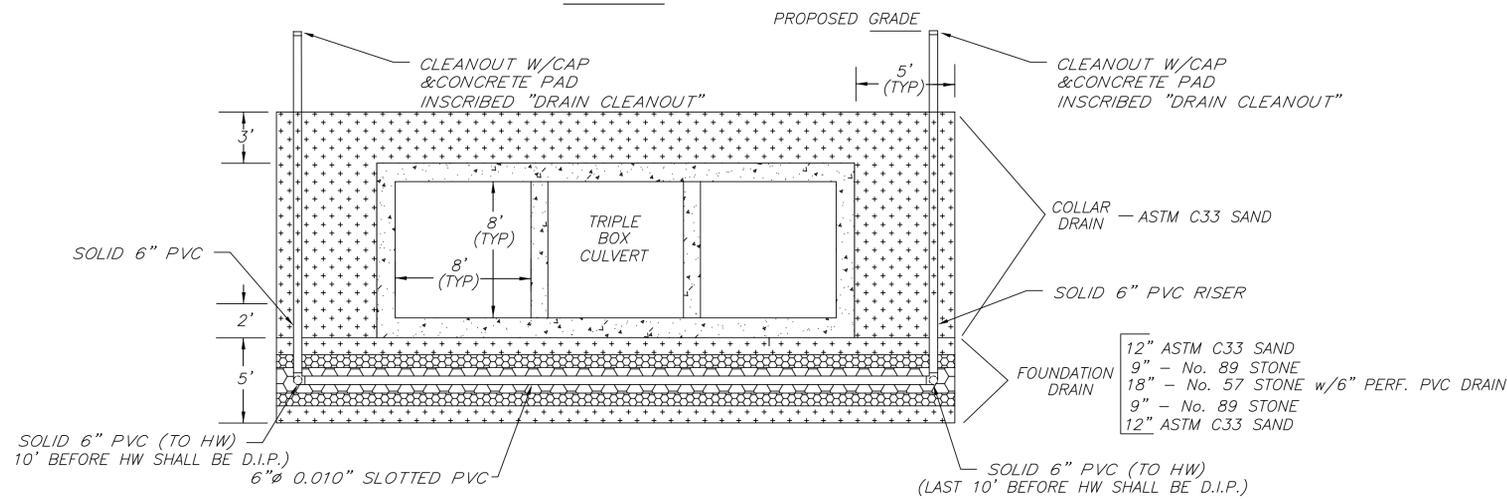
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△	2-13-25	PER SDP REVIEW	DWJ	DWJ
△	5/10/24	PER SDP REVIEW	DWJ	DWJ
△	7/10/23	PER SDP REVIEW	DWJ	DWJ
△	1/15/21	PER SDP REVIEW	JLP	DWJ

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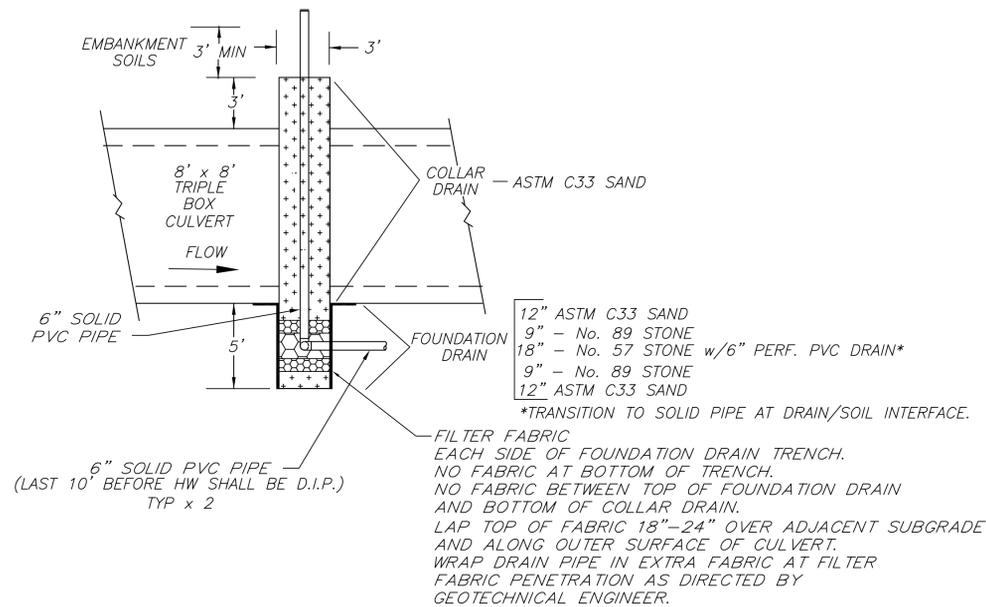
CATEGORY I UPGRADES TO
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 TOWN OF TYRONE, GEORGIA

SECTIONS AT BOX CULVERT & INTERNAL DRAINS

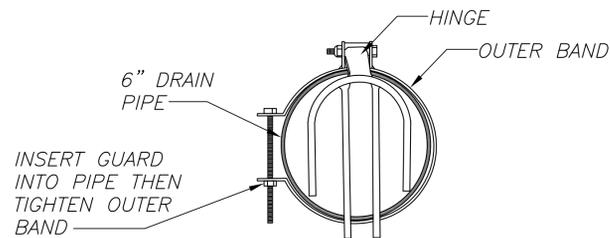
LAND LOT - 108	DESIGN MCI	SCALE 1" = 50'
DISTRICT - 7th	DRAWN JTB, JBD	DATE 10/21/19
CITY - TYRONE	CHECK DWJ	FILE NO. 18101-24C
COUNTY - FAYETTE	APPROVED DWJ	SHEET NO. 4.0
STATE - GEORGIA		



TRANSVERSE SECTION @ FOUNDATION/COLLAR DRAIN



LONGITUDINAL SECTION @ FOUNDATION/COLLAR DRAIN



6" ANIMAL GUARD (BAND TYPE)

AgriDrain MODEL #AGB06 OR APPROVED EQUAL

HEADWALL SIZE	W1	W2	H1	H2	D	E	TONS	BLOCKS
12"	2'-6"	3'-9"	0'-7"	2'-6"	1'-6"	1'-0"	0.55	N/A
15", 18"	3'-2"	4'-9"	1'-3"	3'-2"	1'-2"	1'-9"	0.92	1
24"	4'-2"	8'-2"	2'-0"	4'-2"	1'-8"	2'-9"	1.73	3
30", 36"	4'-8"	8'-8"	2'-4"	4'-8"	2'-4"	3'-3"	1.92	3
42", 48"	5'-8"	10'-11"	3'-6"	5'-9"	3'-0"	4'-3"	3.33	4
54", 60"	6'-8"	12'-4"	4'-0"	6'-5"	3'-5"	5'-0"	3.77	7
66", 72"	8'-5"	13'-5"	5'-7"	8'-0"	3'-0"	7'-0"	5.30	9
78", 84", 90", 96"	10'-2"	15'-10"	4'-0"	9'-0"	3'-4"	8'-4"	7.31	11

Extend pipe 12" beyond face of HW to allow for flow capture/measurement by bucket.

Grout space between HW opening and pipe O.D.

Concrete shall be 4000 psi min.

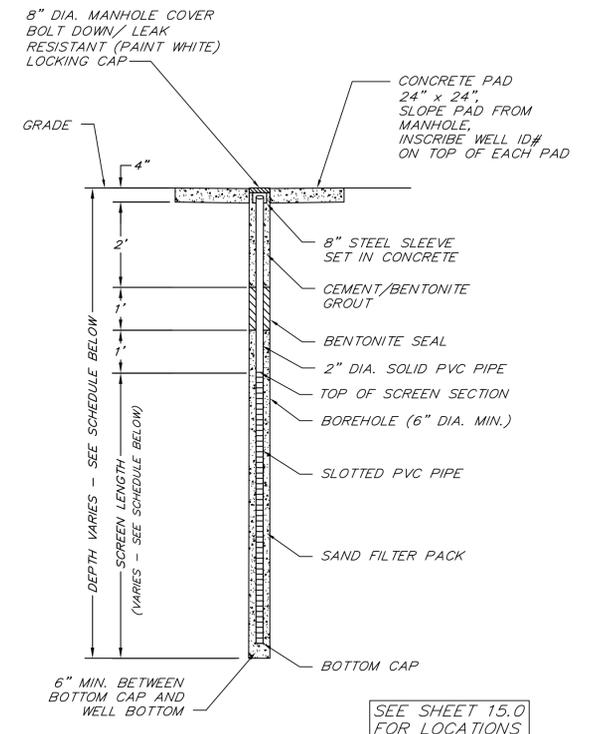
Install collar drain pipe at top of oversized opening in HW. Extend pipe 12" beyond face of HW to allow for flow capture/measurement by bucket. Min HW opening shall be 18" diameter.

FOLEY COMPANY

Precast Concrete HW at Collar Drain Pipe Outlet

Foley Precast HW - (Or Approved Equal)

NOTE - INSCRIBE "CD-HW1" AND "CD-HW2" ON EA. COLLAR DRAIN OUTLET HW. SEE SHEET 3.0 FOR LOCATION OF COLLAR DRAIN HEADWALLS.



DETAIL - PIEZOMETER

SEE SHEET 15.0 FOR LOCATIONS

Piezometer Installation Schedule				
Lake Pendleton Dam				
For Town of Tyrone, Georgia				
Piezometer ID #	ITEM DESCRIPTION	TOTAL DEPTH (FT)	APPROX TOP ELEV.	APPROX BOTTOM ELEV.
P-A1	UPSTREAM CREST	30	925	895
P-A2	DOWNSTREAM CREST	30	925	895
P-A3	DOWNSTREAM TOE	25	921	896
P-A4	DOWNSTREAM TERRACE BEYOND TOE	15	918	903
P-B1	UPSTREAM CREST	30	925	895
P-B2	DOWNSTREAM CREST	30	925	895
P-B3	DOWNSTREAM TOE	25	922	897
P-B4	DOWNSTREAM TERRACE BEYOND TOE	15	919	904

Note: Contractor shall field verify location and final elevations of each piezometer prior to beginning installation. Final locations and elevations shall be confirmed by Geotechnical Engineer.

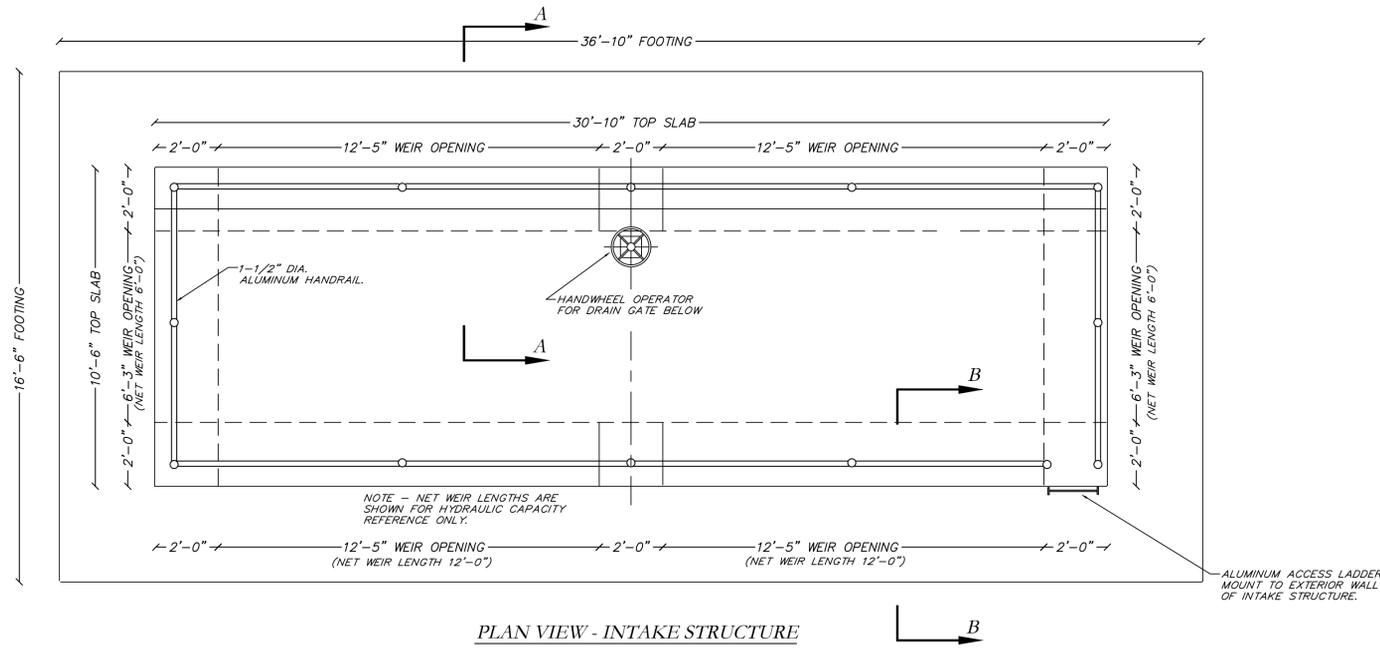
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 FAX: 770-719-3377

CATEGORY I UPGRADES TO
 PENDLETON LAKE DAM FOR
 TOWN OF TYRONE, GEORGIA

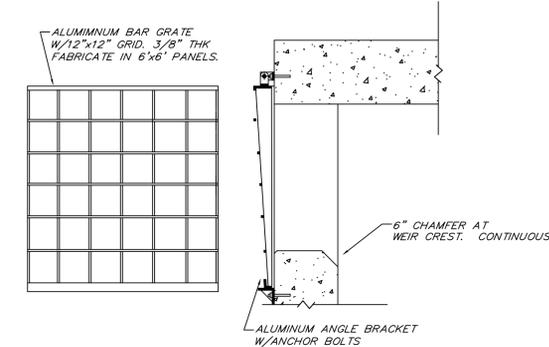
DETAILS

REV. NO.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT - 108	DESIGN	SCALE
1	2-13-25	PER SDP REVIEW	DWJ	DWJ	GEORGIA	DISTRICT - 7th	MCI	AS NOTED
2	5-10-24	PER SDP REVIEW	DWJ	DWJ	GEORGIA	SECTION -	DRAWN	DATE
3	7-10-23	PER SDP REVIEW	DWJ	DWJ	GEORGIA	CITY - TYRONE	CHECK	FILE NO.
4	1/15/21	PER SDP REVIEW	JLP	DWJ	GEORGIA	COUNTY - FAYETTE	DWJ	18101-24C
5		DESCRIPTION		APP'D	STATE - GEORGIA		APPROVED	SHEET NO. 4.1

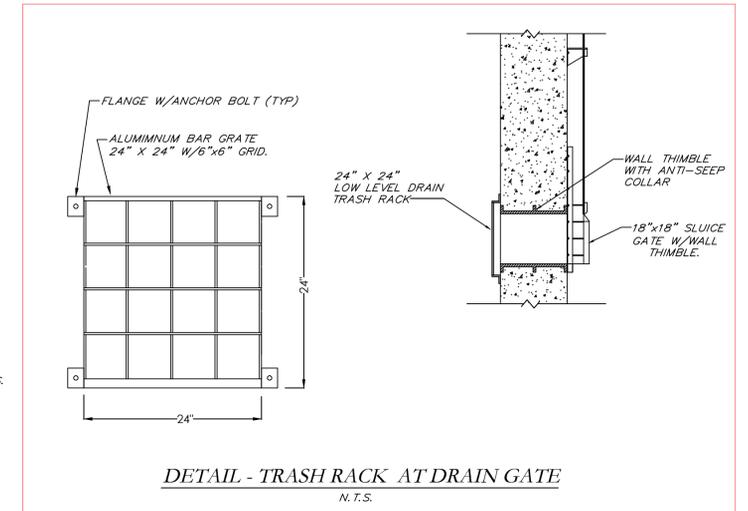




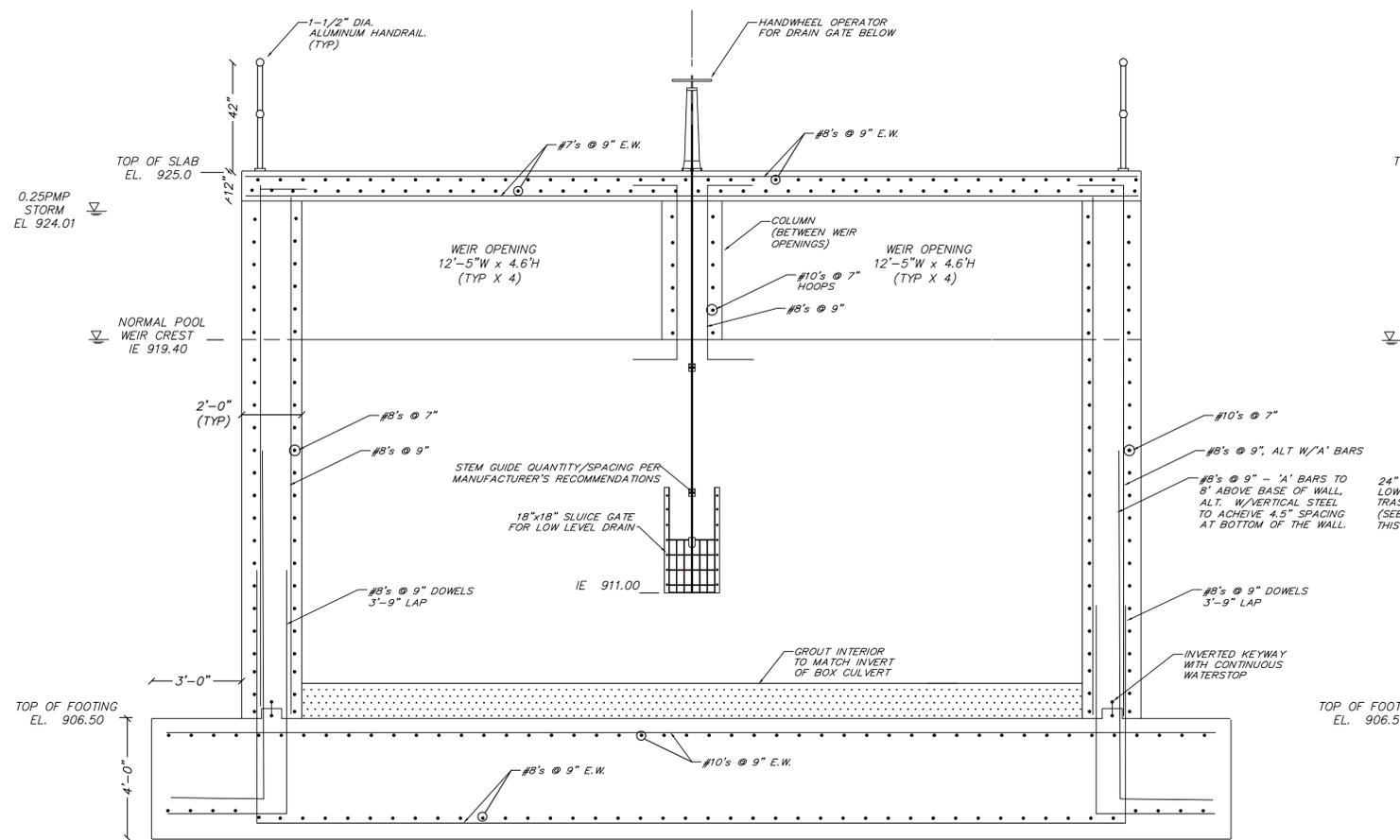
PLAN VIEW - INTAKE STRUCTURE



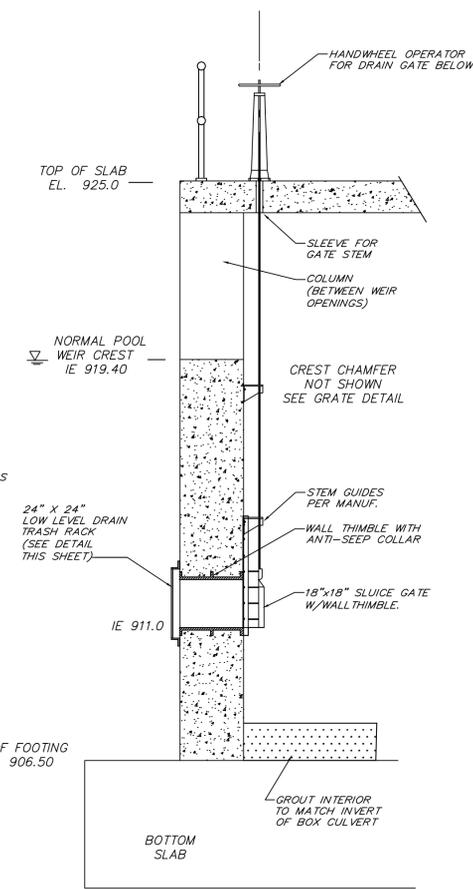
DETAIL - WEIR OPENINGS TRASH RACK
N.T.S.



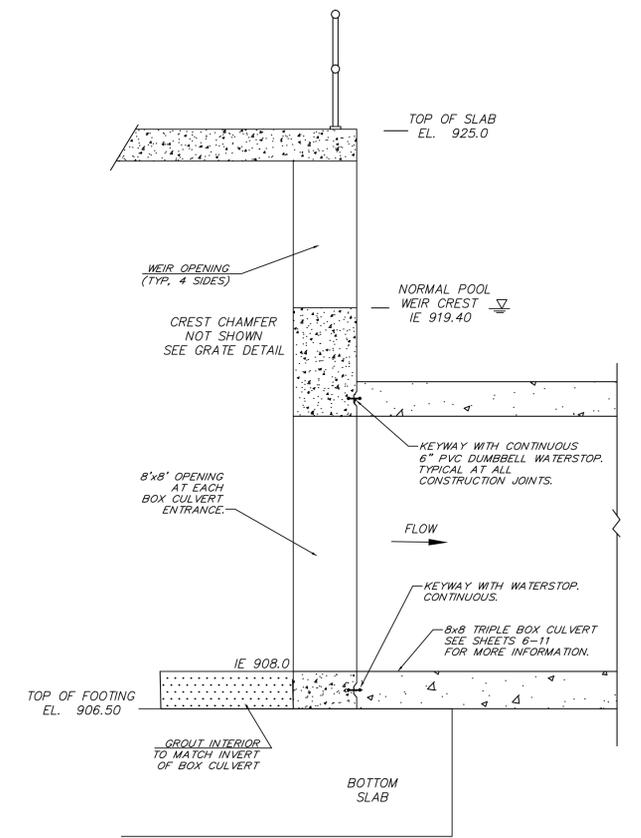
DETAIL - TRASH RACK AT DRAIN GATE
N.T.S.



SECTION THROUGH INTAKE STRUCTURE



SECTION A-A AT DRAIN GATE



SECTION B-B AT BOX CULVERT
N.T.S.

UNDERCUT SUBGRADE AS DIRECTED BY GEOTECHNICAL ENGINEER

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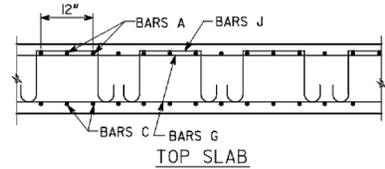
CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

INTAKE STRUCTURE

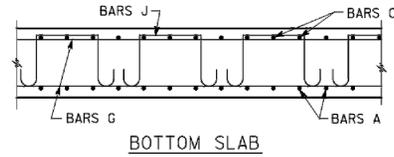


LAND LOT - 108	DESIGN	MCI	SCALE	AS NOTED
DISTRICT - 7th	DRAWN	JTB, JBD	DATE	10/21/19
SECTION -	CHECK	DWJ	FILE NO.	18101-24C
CITY - TYRONE	APPROVED	DWJ	SHEET NO.	5.0
COUNTY - FAYETTE	REV. No.	DATE	DESCRIPTION	BY
STATE - GEORGIA				APP'D

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

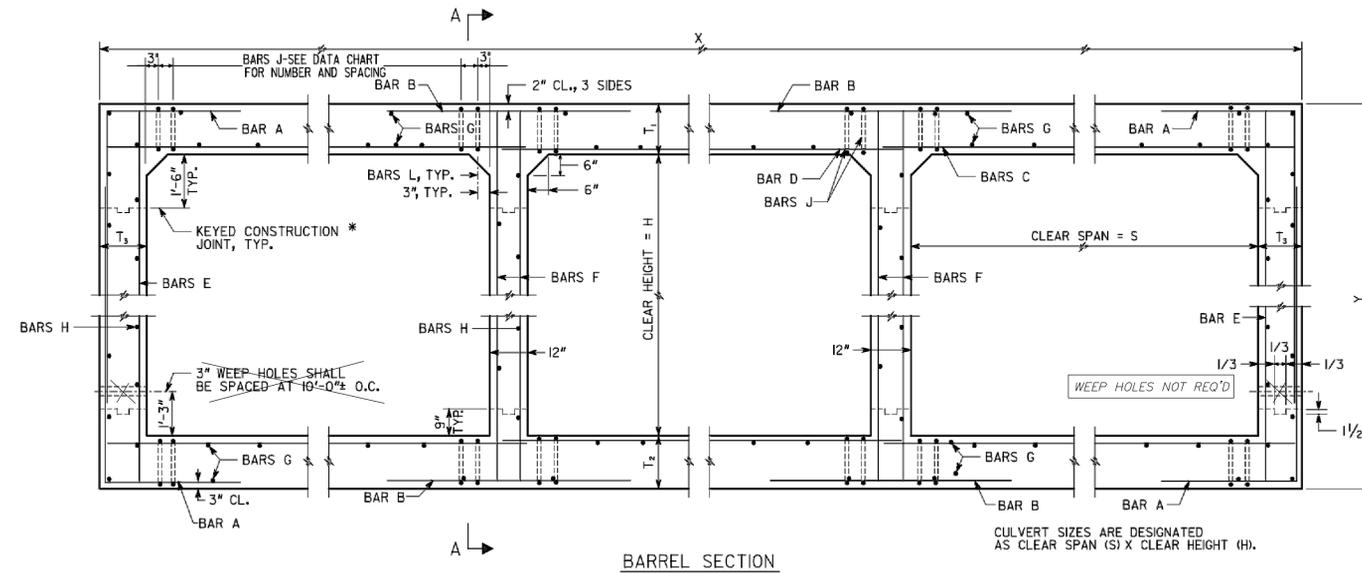


NOTE: SPACING OF BARS A AND C IS 6" OR 12", SEE BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS.



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

SECTION A-A



* AT CONTRACTORS OPTION, THE LOWER CONSTRUCTION JOINT IN THE BARREL WALL MAY BE SHIFTED TO 6" ABOVE THE TOP OF THE BOTTOM SLAB.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE AT 30' MAX SPACING SEE SECTION THROUGH DAM AT BOX CULVERT FOR MORE INFORMATION AND FOR SEQUENCING AND SURCHARGE REQUIREMENTS.
6" PVC DUMBBELL WATERSTOP SHALL BE USED AT ALL CONSTRUCTION JOINTS EXCEPT THOSE LOCATED WITHIN THE INTERIOR WALLS.

FOR BAR DIMENSIONS SEE BAR REINFORCEMENT DETAILS. NUMBER OF J BARS SHOWN IN DATA CHART IS THE NUMBER PER CORNER IN ANY ONE TRANSVERSE PLANE. THE TOTAL NUMBER OF J BARS REQUIRED DEPENDS UPON THE LENGTH OF THE SECTION.

USE DESIGN CONDITION #2

DESIGN	1	2	3	4	5	6	7	8
MAXIMUM FILL HEIGHT	10'	20'	30'	40'	50'	60'	70'	80'

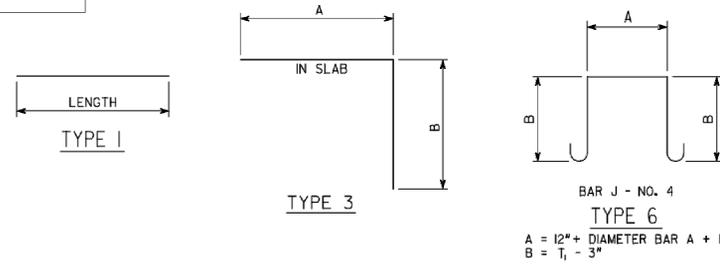
- 1) MINIMUM HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 1'-0".
- 2) DESIGN OF THE CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.
- 3) TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED NORMAL TO THE CENTERLINE OF THE CULVERT AT THE OUTSIDE SHOULDER BREAK POINTS. THE MAXIMUM POUR LENGTH ALONG THE LENGTH OF THE CULVERT SHALL NOT EXCEED 40'-0" FOR DESIGNS 1 TO 3 AND 30'-0" FOR DESIGNS 4 AND ABOVE.
- 4) LONGITUDINAL BARREL REINFORCEMENT STEEL IN THE TRANSVERSE CONSTRUCTION JOINTS SHALL EXTEND THROUGH JOINTS.
- 5) CONSTRUCTION JOINTS SHALL BE WATERPROOFED ON THE EXTERIOR TOP AND SIDES OF BARREL IN ACCORDANCE WITH SECTION 530 OF GEORGIA STANDARD SPECIFICATIONS. WATERPROOFING SHALL BE APPLIED WHEN CONCRETE IS AT LEAST 7 DAYS OLD. ALL COSTS ASSOCIATED WITH WATERPROOFING SHALL BE INCLUDED IN OTHER ITEMS AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
- 6) MINIMUM LENGTH OF LAP SPLICE FOR LONGITUDINAL BARREL REINFORCING STEEL SHALL BE 2'-0".

GENERAL NOTES

- 1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- 2) ALL CONCRETE SHALL BE CLASS "AA".
- 3) CHAMFER ALL EXPOSED EDGES 3/4".
- 4) COST OF DRAIN PIPES, WEEP HOLES, COARSE AGGREGATE, AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
- 5) CONSTRUCTION JOINTS IN BARREL WALLS ARE REQUIRED.
- 6) FOR DETAILS OF WINGWALLS AND PARAPETS SEE "REINFORCED CONCRETE WINGWALLS, TOEWALLS AND PARAPETS FOR CONCRETE BOX CULVERTS" SHEETS.

DESIGN DATA

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



DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		STANDARD REINFORCED CONCRETE TRIPLE BOX CULVERT	
NO SCALE		SEPTEMBER 2017	
BY	DES. YSK. (SUBMITTED)	TRA. (APPROVED)	NUMBER 2403
CHK. JWB.	DRW. EGS.	CH. JWB.	SHEET 1 OF 3

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CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

DETAILS - TRIPLE 8X8 CONCRETE BOX CULVERT



LAND LOT - 108	DESIGN MCI	SCALE AS NOTED
DISTRICT - 7th	DRAWN JTB, DWJ	DATE 10/21/19
SECTION -	CHECK DWJ	FILE NO. 18101-24C
CITY - TYRONE	APPROVED DWJ	SHEET NO. 6.0
REV. No.	DATE	DESCRIPTION
1	1/15/21	PER SDP REVIEW
		BY JLP
		APP'D DWJ
		STATE - GEORGIA

TRIPLE 8'-0" X 7'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	549A @ 12"	462A @ 6"	464A @ 6"	548A @ 6"	552A @ 6"			
BAR B	484 @ 6"	582 @ 6"	633 @ 6"	631 @ 6"	721 @ 6"			
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"			
BAR D	531 @ 12"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"			
BAR E	433 @ 12"	435 @ 12"	437 @ 12"	439 @ 12"	440 @ 12"			
BAR F	433 @ 12"	435 @ 12"	437 @ 12"	439 @ 12"	440 @ 12"			
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401			
BAR H IN 4 WALLS	40 - 402	40 - 402	40 - 402	40 - 402	40 - 402			
BAR J IN EXT. CORNER	0	0	0	3-498 @ 9/2"	3-428 @ 10"			
BAR J IN INT. CORNER	0	0	3-488 @ 8/2"	4-420B @ 9/2"	4-423B @ 10"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	28'-0"	28'-2"	28'-4"	28'-6"	28'-8"			
Y	9'-1"	9'-3"	9'-5"	9'-7"	9'-9"			
YD ³ CLASS AA CONCRETE/FT	3.225	3.455	3.687	3.921	4.157			
LB BAR REINF STEEL/FT	311J	359.0	429J	542.0	589.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	12.3	12.5	12.7	12.9	13J			
LB BAR REINF STEEL	1673	1671	1669	1667	1665			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	12.7	12.9	13.2	13.4	13.6			
LB BAR REINF STEEL	2071	2071	2072	2072	2072			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	14.2	14.4	14.7	14.9	15.2			
LB BAR REINF STEEL	2193	2194	2195	2196	2197			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	17.5	17.7	18.0	18.3	18.6			
LB BAR REINF STEEL	2480	2483	2485	2488	2490			

TRIPLE 8'-0" X 9'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	585A @ 12"	474A @ 6"	573A @ 6"	575A @ 6"	607A @ 6"			
BAR B	482 @ 6"	580 @ 6"	629 @ 6"	628 @ 6"	719 @ 6"			
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"			
BAR D	442 @ 6"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"			
BAR E	539 @ 12"	541 @ 12"	543 @ 12"	452 @ 6"	453 @ 6"			
BAR F	449 @ 12"	450 @ 12"	451 @ 12"	452 @ 12"	453 @ 12"			
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401			
BAR H IN 4 WALLS	50 - 402	50 - 402	50 - 402	50 - 402	50 - 402			
BAR J IN EXT. CORNER	0	0	0	3-498 @ 9/2"	3-428 @ 10"			
BAR J IN INT. CORNER	0	0	3-488 @ 8/2"	4-420B @ 9/2"	4-423B @ 10"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	28'-0"	28'-2"	28'-4"	28'-6"	28'-8"			
Y	11'-1"	11'-3"	11'-5"	11'-7"	11'-9"			
YD ³ CLASS AA CONCRETE/FT	3.522	3.764	4.008	4.255	4.503			
LB BAR REINF STEEL/FT	354.0	391.0	497.9	585.8	679.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	13J	13.3	13.6	13.8	14.0			
LB BAR REINF STEEL	1755	1753	1752	1750	1748			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	13.6	13.8	14.1	14.3	14.6			
LB BAR REINF STEEL	2156	2157	2157	2157	2158			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	15.2	15.4	15.7	16.0	16.3			
LB BAR REINF STEEL	2280	2281	2282	2283	2284			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	18.7	19.0	19.3	19.6	20.0			
LB BAR REINF STEEL	2571	2573	2576	2578	2581			

TRIPLE 8'-0" X 8'-0" BOX CULVERT *USE DESIGN CONDITION #2.								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	568A @ 12"	470A @ 6"	706A @ 12"	566A @ 6"	567A @ 6"			
BAR B	483 @ 6"	581 @ 6"	630 @ 6"	630 @ 6"	720 @ 6"			
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"			
BAR D	442 @ 6"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"			
BAR E	442 @ 12"	443 @ 12"	534 @ 12"	535 @ 12"	537 @ 12"			
BAR F	442 @ 12"	443 @ 12"	444 @ 12"	445 @ 12"	447 @ 12"			
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401			
BAR H IN 4 WALLS	42 - 402	42 - 402	42 - 402	42 - 402	42 - 402			
BAR J IN EXT. CORNER	0	0	0	3-498 @ 9/2"	3-428 @ 10"			
BAR J IN INT. CORNER	0	0	3-488 @ 8/2"	4-420B @ 9/2"	4-423B @ 10"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	28'-0"	28'-2"	28'-4"	28'-6"	28'-8"			
Y	10'-1"	10'-3"	10'-5"	10'-7"	10'-9"			
YD ³ CLASS AA CONCRETE/FT	3.373	3.610	3.848	4.088	4.330			
LB BAR REINF STEEL/FT	326.6	368.9	477.4	562.4	609.0			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	12.7	12.9	13.2	13.4	13.6			
LB BAR REINF STEEL	1701	1699	1698	1696	1694			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	13.2	13.4	13.7	13.9	14.1			
LB BAR REINF STEEL	2100	2101	2101	2102	2102			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	14.7	15.0	15.2	15.5	15.8			
LB BAR REINF STEEL	2223	2224	2225	2226	2227			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	18.1	18.4	18.7	19.0	19.4			
LB BAR REINF STEEL	2511	2513	2516	2518	2520			

TRIPLE 8'-0" X 10'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	478A @ 6"	711A @ 12"	579A @ 6"	609A @ 6"	610A @ 6"			
BAR B	480 @ 6"	577 @ 6"	628 @ 6"	627 @ 6"	718 @ 6"			
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"			
BAR D	442 @ 6"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"			
BAR E	550 @ 12"	551 @ 12"	457 @ 6"	611 @ 12"	713 @ 12"			
BAR F	455 @ 12"	456 @ 12"	457 @ 12"	459 @ 12"	460 @ 12"			
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401			
BAR H IN 4 WALLS	56 - 402	56 - 402	56 - 402	56 - 402	56 - 402			
BAR J IN EXT. CORNER	0	0	2-478 @ 8/2"	3-420B @ 9/2"	3-422B @ 10"			
BAR J IN INT. CORNER	0	0	3-488 @ 8/2"	4-420B @ 9/2"	4-423B @ 9/2"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	28'-0"	28'-2"	28'-4"	28'-6"	28'-8"			
Y	12'-1"	12'-3"	12'-5"	12'-7"	12'-9"			
YD ³ CLASS AA CONCRETE/FT	3.670	3.918	4.169	4.421	4.676			
LB BAR REINF STEEL/FT	373.2	442.4	531.4	659.5	716.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	13.4	13.6	13.9	14.1	14.4			
LB BAR REINF STEEL	1783	1781	1779	1777	1776			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	13.9	14.2	14.4	14.7	14.9			
LB BAR REINF STEEL	2186	2186	2187	2187	2187			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	15.5	15.8	16.1	16.4	16.7			
LB BAR REINF STEEL	2311	2312	2313	2314	2315			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	19.1	19.4	19.8	20.1	20.5			
LB BAR REINF STEEL	2603	2606	2608	2610	2613			

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		STANDARD REINFORCED CONCRETE TRIPLE BOX CULVERT 8'X7', 8'X8', 8'X9' AND 8'X10'	
NO SCALE		SEPTEMBER 2017	
DES. YSK	(SUBMITTED)	NUMBER	
DRW. FGS	STATE DESIGN POLICE ENGINEER	2403	
TRA.	(APPROVED) Margaret B. Puelo	SHEET 2-1 OF 3	
CHK. JWB	CHIEF ENGINEER		

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

CATEGORY I UPGRADES TO
 PENDLETON LAKE DAM FOR
 TOWN OF TYRONE, GEORGIA

DETAILS - TRIPLE 8X8 CONCRETE BOX CULVERT

LAND LOT - 108	DESIGN	MCI	SCALE	AS NOTED
DISTRICT - 7th	DRAWN	JTB, DWJ	DATE	10/21/19
SECTION -	CHECK	DWJ	FILE NO.	18101-24C
CITY - TYRONE	APPROVED	DWJ	SHEET NO.	7.0
COUNTY - FAYETTE				
STATE - GEORGIA				



REV. No.	DATE	DESCRIPTION	BY	APP'D
	1/15/21	PER SDP REVIEW	JLP	DWJ

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

MARK	LENGTH	TYPE	MARK	LENGTH	TYPE	MARK	LENGTH	TYPE	MARK	LENGTH	TYPE	A	B	MARK	LENGTH	TYPE	A	B	MARK	LENGTH	TYPE	A	B	MARK	LENGTH	TYPE	A	B		
401	L* - 4"	I	477	15'-5"	I	556	12'-4"	I	634	19'-4"	I			477A	13'-5"	3	4'-4"	9'-1"	570A	12'-0"	3	3'-1"	8'-1"	401B	3'-1/2"	6	1'-1/2"	0'-6"		
402	L* + 20"	I	478	16'-2"	I	557	12'-6"	I	635	19'-6"	I			478A	13'-9"	3	3'-10"	9'-1"	571A	12'-0"	3	4'-3"	7'-9"	402B	3'-1/2"	6	1'-1/2"	0'-6"		
403	4'-0"	I	479	16'-8"	I	558	12'-8"	I	636	19'-8"	I			479A	14'-0"	3	3'-10"	10'-2"	572A	12'-3"	3	3'-10"	8'-5"	403B	3'-3/4"	6	1'-1/2"	0'-7"		
404	4'-2"	I	480	17'-2"	I	559	13'-0"	I	637	19'-10"	I			480A	14'-3"	3	4'-0"	10'-3"	573A	12'-6"	3	3'-5"	9'-1"	404B	3'-3/4"	6	1'-1/2"	0'-7"		
405	4'-4"	I	481	17'-8"	I	560	13'-2"	I	638	20'-1"	I			481A	16'-10"	3	4'-9"	12'-1"	574A	12'-8"	3	4'-1"	8'-7"	405B	3'-3/4"	6	1'-1/2"	0'-7"		
406	4'-6"	I	482	17'-10"	I	561	13'-4"	I	639	20'-4"	I			482A	18'-1"	3	7'-0"	11'-1"	575A	13'-0"	3	3'-10"	9'-2"	406B	3'-5/8"	6	1'-1/2"	0'-8"		
407	4'-8"	I	483	18'-6"	I	562	13'-5"	I	640	20'-7"	I			483A	18'-1"	3	7'-0"	11'-1"	576A	13'-2"	3	4'-5"	8'-9"	407B	3'-5/8"	6	1'-1/2"	0'-8"		
408	5'-0"	I	484	19'-2"	I	563	13'-6"	I	641	20'-8"	I			484A	19'-9"	3	7'-0"	11'-1"	577A	13'-3"	3	3'-11"	9'-4"	408B	3'-5/8"	6	1'-1/2"	0'-8"		
409	5'-2"	I	485	19'-6"	I	564	13'-11"	I	642	20'-10"	I			485A	19'-9"	3	7'-0"	11'-1"	578A	13'-7"	3	4'-6"	9'-1"	409B	3'-7/8"	6	1'-1/2"	0'-9"		
410	5'-4"	I	486	19'-10"	I	565	14'-0"	I	643	21'-0"	I			486A	19'-10"	3	7'-0"	11'-1"	579A	13'-10"	3	3'-9"	10'-1"	410B	3'-7/8"	6	1'-1/2"	0'-9"		
411	5'-6"	I	487	20'-0"	I	566	14'-1"	I	644	21'-4"	I			487A	20'-0"	3	7'-0"	11'-1"	580A	13'-10"	3	4'-3"	9'-7"	411B	3'-7/8"	6	1'-1/2"	0'-9"		
412	5'-8"	I	488	20'-2"	I	567	14'-2"	I	645	21'-6"	I			488A	20'-2"	3	7'-0"	11'-1"	581A	14'-2"	3	3'-11"	10'-3"	412B	3'-7/8"	6	1'-1/2"	0'-9"		
413	5'-10"	I	489	20'-10"	I	568	14'-4"	I	646	21'-11"	I			489A	20'-10"	3	7'-0"	11'-1"	582A	14'-4"	3	4'-3"	10'-1"	413B	3'-9/8"	6	1'-1/2"	0'-10"		
414	6'-0"	I	490	21'-4"	I	569	14'-5"	I	647	22'-0"	I			490A	21'-4"	3	7'-0"	11'-1"	583A	14'-6"	3	4'-2"	10'-4"	414B	3'-9/8"	6	1'-1/2"	0'-10"		
415	6'-2"	I	491	21'-8"	I	570	14'-7"	I	648	22'-2"	I			491A	21'-8"	3	7'-0"	11'-1"	584A	14'-7"	3	4'-2"	10'-5"	415B	3'-11/8"	6	1'-1/2"	0'-11"		
416	6'-4"	I	492	22'-2"	I	571	14'-8"	I	649	22'-10"	I			492A	22'-2"	3	7'-0"	11'-1"	585A	14'-8"	3	5'-9"	8'-11"	416B	3'-11/8"	6	1'-1/2"	0'-11"		
417	6'-5"	I	493	22'-4"	I	572	14'-9"	I	650	23'-0"	I			493A	22'-4"	3	7'-0"	11'-1"	586A	15'-0"	3	4'-5"	10'-7"	417B	4'-1/8"	6	1'-1/2"	1'-0"		
418	6'-6"	I	494	22'-6"	I	573	14'-10"	I	651	23'-4"	I			494A	22'-6"	3	7'-0"	11'-1"	587A	15'-0"	3	4'-5"	11'-5"	418B	4'-1/8"	6	1'-1/2"	1'-0"		
419	6'-8"	I	495	25'-0"	I	574	15'-10"	I	652	23'-6"	I			495A	25'-0"	3	7'-0"	11'-1"	588A	16'-7"	3	6'-6"	10'-1"	419B	4'-3/8"	6	1'-1/2"	1'-1"		
420	6'-10"	I	496	25'-2"	I	575	16'-6"	I	653	23'-8"	I			496A	25'-2"	3	7'-0"	11'-1"	589A	17'-3"	3	4'-10"	12'-5"	420B	4'-3/8"	6	1'-1/2"	1'-1"		
421	7'-0"	I				576	17'-0"	I	654	23'-10"	I			501A	4'-0"	I			601A	8'-0"	3	3'-7"	4'-5"	421B	4'-5/8"	6	1'-1/2"	1'-2"		
422	7'-2"	I	501	4'-0"	I	577	17'-2"	I	655	24'-6"	I			502A	4'-8"	I			602A	8'-10"	3	4'-1"	4'-9"	422B	4'-5/8"	6	1'-1/2"	1'-2"		
423	7'-4"	I	502	5'-0"	I	578	17'-4"	I	656	24'-10"	I			503A	5'-6"	I			603A	9'-10"	3	4'-1"	5'-9"	423B	4'-5/8"	6	1'-1/2"	1'-2"		
424	7'-5"	I	503	5'-2"	I	579	17'-6"	I	657	24'-10"	I			504A	5'-8"	I			604A	10'-10"	3	3'-2"	7'-8"	424B	4'-7/8"	6	1'-1/2"	1'-3"		
425	7'-6"	I	504	5'-4"	I	580	18'-5"	I						505A	5'-10"	I			605A	10'-11"	3	3'-2"	7'-9"	425B	4'-7/8"	6	1'-1/2"	1'-3"		
426	7'-8"	I	505	5'-5"	I	581	18'-11"	I						506A	5'-11"	I			606A	11'-3"	3	3'-3"	8'-0"	426B	4'-9/8"	6	1'-1/2"	1'-4"		
427	7'-10"	I	506	5'-8"	I	582	19'-5"	I						507A	6'-0"	I			607A	13'-0"	3	3'-9"	9'-3"	427B	4'-9/8"	6	1'-1/2"	1'-4"		
428	8'-0"	I	507	6'-0"	I	583	19'-6"	I						508A	6'-2"	I			608A	13'-4"	3	3'-11"	9'-5"	428B	4'-9/8"	6	1'-1/2"	1'-4"		
429	8'-2"	I	508	6'-2"	I	584	19'-10"	I						509A	6'-4"	I			609A	14'-2"	3	4'-10"	10'-2"	429B	5'-1/8"	6	1'-1/2"	1'-6"		
430	8'-4"	I	509	6'-5"	I	585	20'-8"	I						510A	6'-6"	I			610A	14'-5"	3	4'-2"	10'-3"	430B	5'-1/8"	6	1'-1/2"	1'-6"		
431	8'-6"	I	510	6'-6"	I	586	21'-0"	I						511A	6'-8"	I			611A	14'-8"	3	4'-3"	10'-5"	431B	5'-5/8"	6	1'-1/2"	1'-8"		
432	8'-8"	I	511	6'-8"	I	587	21'-2"	I						512A	7'-0"	I			612A	15'-6"	3	4'-9"	10'-9"	432B	5'-5/8"	6	1'-1/2"	1'-8"		
433	8'-8"	I	512	7'-0"	I	588	21'-6"	I						513A	7'-2"	I			613A	16'-9"	3	5'-0"	11'-9"							
434	8'-9"	I	513	7'-2"	I	589	22'-0"	I						514A	7'-4"	I			614A	17'-7"	3	5'-0"	12'-7"							
435	8'-10"	I	514	7'-4"	I	590	22'-2"	I						515A	7'-6"	I			615A	18'-0"	3	5'-3"	12'-9"							
436	8'-11"	I	515	7'-6"	I	591	22'-4"	I						516A	7'-8"	I														
437	9'-0"	I	516	7'-7"	I	592	23'-6"	I						517A	7'-10"	I														
438	9'-1"	I	517	7'-8"	I	593	24'-0"	I						518A	8'-0"	I														
439	9'-2"	I	518	8'-0"	I	594	24'-4"	I						519A	8'-2"	I														
440	9'-4"	I	519	8'-2"	I	595	24'-8"	I						520A	8'-4"	I														
441	9'-6"	I	520	8'-4"	I	596	24'-10"	I						521A	8'-6"	I														
442	9'-8"	I	521	8'-5"	I	597	25'-0"	I						522A	8'-8"	I														
443	9'-10"	I	522	8'-6"	I									523A	8'-10"	I														
444	10'-0"	I	523	8'-7"	I	601	7'-8"	I						524A	8'-12"	I														
445	10'-2"	I	524	8'-8"	I	602	8'-4"	I						525A	8'-14"	I														
446	10'-3"	I	525	8'-10"	I	603	8'-8"	I						526A	8'-16"	I														
447	10'-4"	I	526	8'-11"	I	604	8'-9"	I						527A	8'-18"	I														
448	10'-6"	I	527	9'-0"	I	605	9'-11"	I						528A	8'-20"	I														
449	10'-8"	I	528	9'-2"	I	606	10'-0"	I						529A	8'-22"	I														
450	10'-10"	I	529	9'-4"	I	607	10'-7"	I						530A	8'-24"	I														
451	11'-0"	I	530	9'-6"	I	608	11'-0"	I						531A	8'-26"	I														
452	11'-2"	I	531	9'-8"	I	609	11'-1"	I						532A	8'-28"	I														
453	11'-4"	I	532	9'-9"	I	610	11'-2"	I						533A	8'-30"	I														
454	11'-6"	I	533	9'-10"	I	611	12'-2"	I						534A	8'-32"	I														
455	11'-8"	I	534	10'-0"	I	612	12'-4"	I						535A	8'-34"	I														
456	11'-10"	I	535	10'-2"	I	613	12'-6"	I						536A	8'-36"	I														
457	12'-0"	I	536	10'-3"	I	614	12'-7"	I						537A	8'-38"	I														
458	12'-1"	I	537	10'-4"	I	615	13'-3"	I						538A	8'-40"	I														
459	12'-2"	I	538	10'-7"	I	616	13'-11"	I						539A	8'-42"	I														
460	12'-4"	I	539	10'-8"	I	617	14'-0"	I						540A	8'-44"	I														
461	12'-6"	I	540	10'-9"	I	618	14'-3"	I						541A	8'-46"	I														
462	12'-7"	I	541	10'-10"	I	619	15'-6"	I						542A	8'-48"	I														

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CLEAR HEIGHT	WINGWALLS, TOEWALLS AND PARAPETS																			
	N BARS AT 1'-0" C. TO C.				P BARS AT 1'-0" C. TO C.				R BARS AT 1'-0" C. TO C.				M BARS							
	SIZE	NO. (CONSTANT LENGTH)	LENGTH	NO. (VARIABLE LENGTH)	SIZE	NO. (CONSTANT LENGTH)	LENGTH	NO. (VARIABLE LENGTH)	SIZE	NO. (CONSTANT LENGTH)	LENGTH	NO. (VARIABLE LENGTH)	SIZE	NO. (CONSTANT LENGTH)	LENGTH					
2'	#4	4	5'-4"	12	4'-4"	5'-2"	#4	20	3'-5"	4	1'-2"	1'-2"	#6	32	3'-6"	3'-6"	#6	H	X+2"	2'
3'	#4	4	6'-7"	24	4'-4"	6'-5"	#4	20	6'-4"	8	1'-9"	4'-2"	#6	56	3'-6"	3'-6"	#6	H	X+2"	3'
4'	#5	4	8'-2"	40	4'-5"	8'-2"	#4	20	9'-10"	12	2'-11"	7'-9"	#6	88	3'-6"	3'-6"	#6	H	X+2"	4'
5'	#5	4	9'-1"	44	4'-4"	9'-0"	#4	20	11'-3"	16	2'-11"	10'-4"	#6	96	3'-6"	3'-6"	#6	H	X+2"	5'
6'	#5	4	10'-2"	48	5'-5"	9'-11"	#4	24	12'-7"	16	2'-11"	10'-5"	#6	104	3'-6"	3'-6"	#6	H	X+2"	6'
7'	#5	4	11'-2"	56	5'-11"	11'-2"	#4	24	15'-11"	20	3'-0"	13'-0"	#6	120	3'-6"	3'-6"	#6	H	X+2"	7'
8'	#6	4	12'-4"	60	6'-6"	12'-3"	#4	28	15'-2"	24	3'-2"	13'-0"	#6	128	3'-8"	4'-0"	#6	H	X+2"	8'
9'	#6	4	13'-5"	64	7'-0"	13'-2"	#4	28	16'-6"	24	3'-4"	15'-7"	#6	136	3'-8"	4'-6"	#6	H	X+2"	9'
10'	#7	4	14'-7"	72	7'-8"	14'-7"	#4	32	17'-9"	24	3'-4"	15'-7"	#6	152	3'-8"	5'-0"	#6	H	X+2"	10'
11'	#7	4	15'-7"	76	8'-2"	15'-6"	#4	32	19'-1"	28	3'-4"	18'-2"	#6	160	3'-8"	5'-6"	#6	H	X+2"	11'
12'	#8	4	16'-8"	80	8'-9"	16'-6"	#4	36	20'-5"	28	3'-5"	18'-3"	#6	168	3'-8"	6'-0"	#6	H	X+2"	12'

GENERAL NOTES

- 1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- 2) MAINTAIN 3" CLEARANCE ON REINFORCEMENT AT FACE OF CONCRETE CAST AGAINST EARTH. MAINTAIN 2" CLEARANCE ON ALL OTHER REINFORCEMENT.
- 3) CHAMFER ALL EXPOSED EDGES 3/4".
- 4) CONCRETE APRONS (SEPARATE STANDARD SHEETS) ARE REQUIRED AT ALL OUTLETS. THE ENGINEER MAY ALLOW AN EXCEPTION FOR BED ROCK CONDITIONS. TOEWALLS UNDER PARAPETS MAY BE MODIFIED AT OUTLETS AS SHOWN ON STANDARDS FOR CONCRETE APRONS.
- 5) PARAPETS AT INLETS SHALL BE CONSTRUCTED WITH A 4/45° BEVEL.
- 6) CULVERT TO HAVE MINIMUM OF 1'-0" BELOW BOTTOM OF BASE OR CONCRETE PAVEMENT.

DESIGN DATA

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

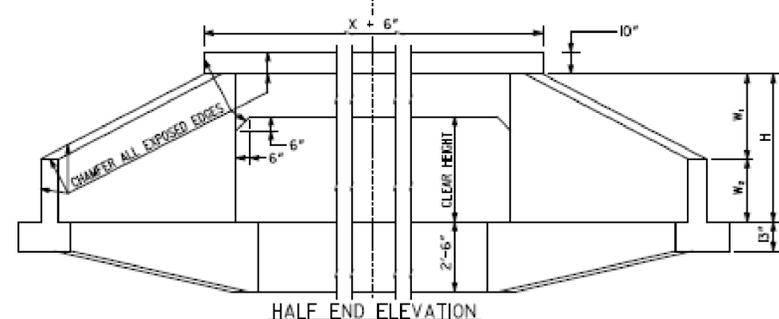
* LENGTH INCLUDES VERTICAL LEG, HORIZONTAL LEG AND 180° STANDARD HOOK.
** LENGTH INCLUDES 2 STANDARD 180° HOOKS.

X = TOTAL BARREL WIDTH OUT TO OUT (DIMENSION "X" FROM CULVERT SHEET)
Y = TOTAL BARREL HEIGHT OUT TO OUT (DIMENSION "Y" FROM CULVERT SHEET)

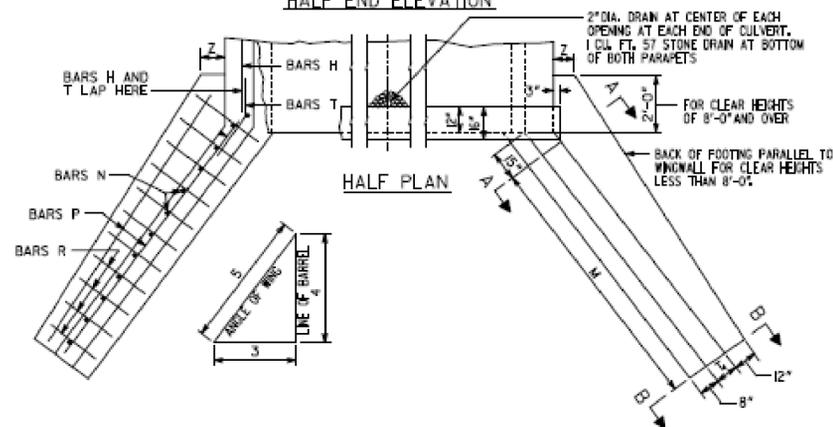
DIMENSIONS AND QUANTITIES											
CLEAR HEIGHT	H	W ₁	W ₂	S	M	T ₁	Z	CY CLASS AA CONCRETE	LBS. BAR REINF STEEL	CLEAR HEIGHT	
2'	3'-1"	1'-1"	2'-0"	1'-1"	2'-8"	10"	-	3.3	270	2'	
3'	4'-3 1/2"	2'-3 1/2"	2'-0"	2'-1 1/2"	5'-7"	10"	-	6.0	499	3'	
4'	5'-9"	3'-9"	2'-0"	2'-7"	9'-2"	10"	-	9.2	795	4'	
5'	6'-9"	4'-3"	2'-6"	2'-7"	10'-6"	10"	-	12.4	1093	5'	
6'	7'-9"	4'-9"	3'-0"	2'-7"	11'-10"	10"	-	15.0	1246	6'	
7'	8'-9 1/2"	5'-3 1/2"	3'-6"	2'-7 1/2"	13'-2"	10"	-	17.9	1507	7'	
8'	9'-10 1/2"	5'-10 1/2"	4'-0"	2'-8 1/2"	14'-5"	12"	1'-0"	25.3	2070	8'	
9'	10'-4 1/2"	6'-5"	4'-6"	2'-9"	15'-9"	12"	1'-6"	29.9	2345	9'	
10'	11'-1 1/2"	6'-11"	5'-0"	2'-9"	17'-0"	12"	2'-0"	34.7	3277	10'	
11'	12'-1 1/2"	7'-5"	5'-6"	2'-9"	18'-4"	12"	2'-6"	40.0	3676	11'	
12'	13'-11 1/2"	7'-4 1/2"	6'-0"	2'-9 1/2"	19'-8"	12"	3'-0"	45.8	4788	12'	

QUANTITIES GIVEN INCLUDE WINGWALL, WINGWALL FOOTING, AND WINGWALL TOEWALL FOR BOTH ENDS.

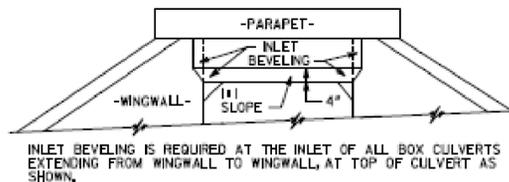
SYMMETRICAL ABOUT C CULVERT



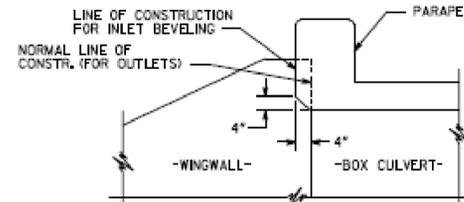
HALF END ELEVATION



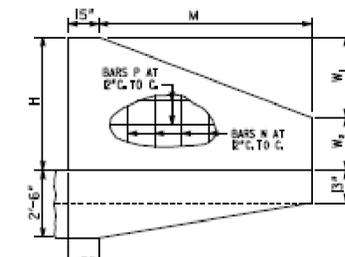
HALF PLAN



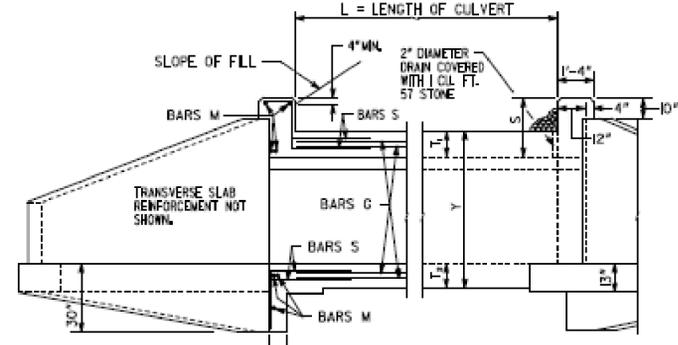
INLET BEVELING IS REQUIRED AT THE INLET OF ALL BOX CULVERTS EXTENDING FROM WINGWALL TO WINGWALL, AT TOP OF CULVERT AS SHOWN.



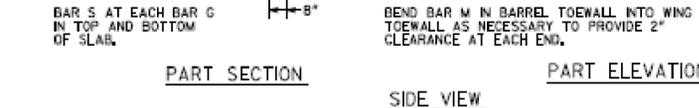
INLET BEVELING DETAIL



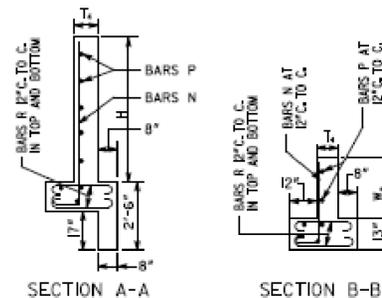
ELEVATION OF WING



PART SECTION



SIDE VIEW

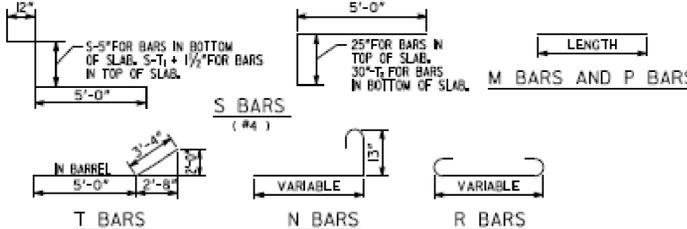


SECTION A-A

SECTION B-B

BAR S AND T ARE LAPPED WITH BAR G AND H, RESPECTIVELY.

T₁ = TOP SLAB THICKNESS
T₂ = BOTTOM SLAB THICKNESS
NOTE: SEE BOX CULVERT STANDARDS FOR DIMENSIONS.



S BARS (#4)

T BARS (#4)

N BARS

R BARS

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		STANDARD	
NO SCALE		SEPTEMBER 2017	
DES. BY	DRW. BY	CHG. BY	DATE
JEL	JEL	JEL	05/10/24
SUBMITTED		STATE DESIGN POLICY ENGINEER	
APPROVED		MARGARET B. FURLO CHIEF ENGINEER	
NUMBER		2404	
SHEET		1 OF 1	

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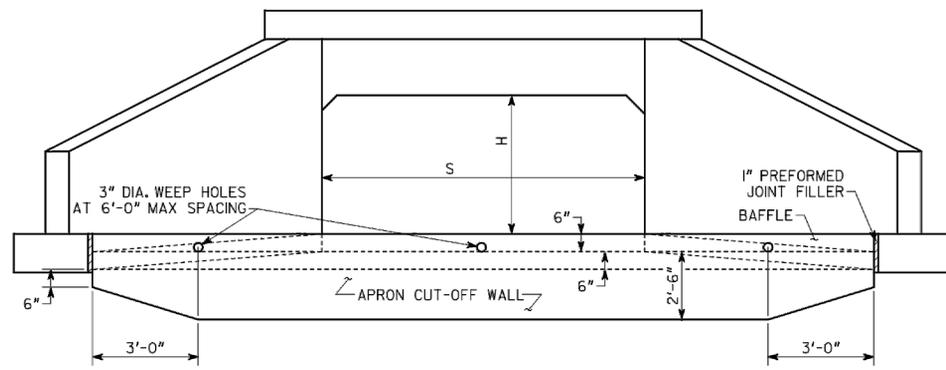
CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

DETAILS - TRIPLE 8X8 CONCRETE BOX CULVERT



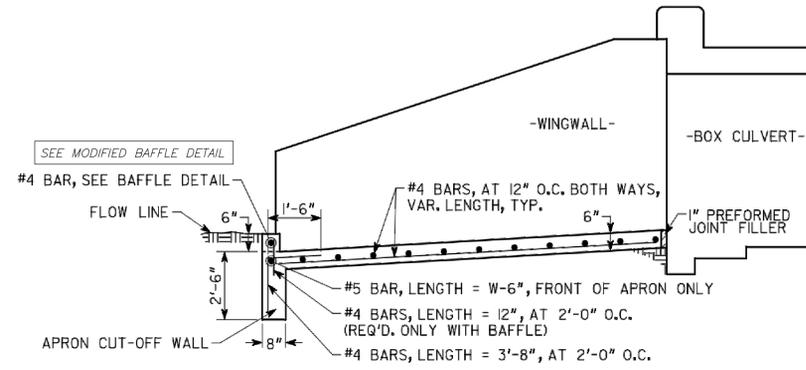
LAND LOT - 108	DESIGN	MCI	SCALE	AS NOTED
DISTRICT - 7th	DRAWN	JTB, DWJ	DATE	10/21/19
CITY - TYRONE	CHECK	DWJ	FILE NO.	18101-24C
COUNTY - FAYETTE	APPROVED	DWJ	SHEET NO.	9.0
STATE - GEORGIA				

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



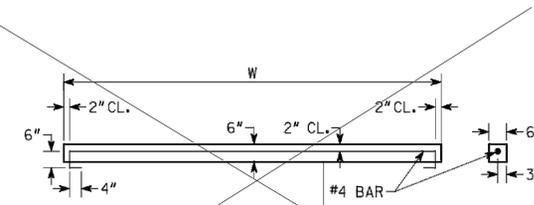
FRONT VIEW OF APRON

S = CLEAR SPAN OF BOX CULVERT
H = CLEAR HEIGHT (RISE) OF BOX CULVERT



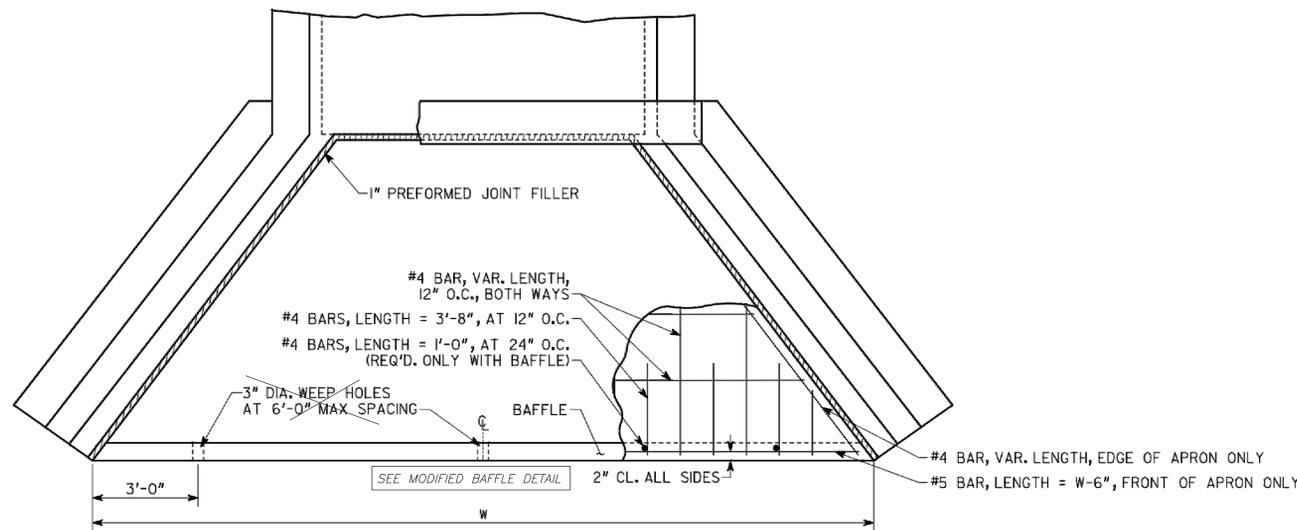
ELEVATION VIEW OF APRON

NOTE: 2" CL MIN. ON ALL SIDES UNLESS OTHERWISE NOTED.
SEE BOX CULVERT STANDARDS FOR DETAILS NOT SHOWN.
END OF EMBEDDED CULVERT APRON (NOT SHOWN) HAS THE SAME MINIMUM BACKFILL AS BARREL.



BAFFLE DETAIL

NOTE: CONSTRUCT BAFFLES FROM CLASS AA CONCRETE, MAY BE PRECAST OR CAST IN PLACE.
USE BAFFLES ON APRONS AT OUTLETS OF PIPES AND BOX CULVERTS AND IN PAVED DITCHES OR ELSEWHERE AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



PLAN VIEW OF APRON

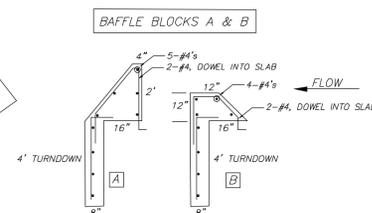
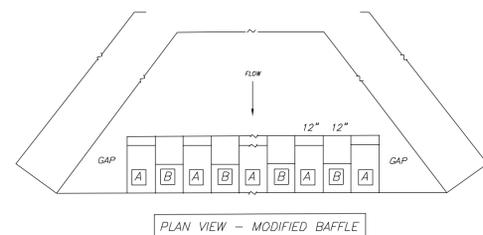
GENERAL NOTES

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- CONCRETE APRONS AND BAFFLES ARE REQUIRED AT ALL OUTLETS OF ALL BOX CULVERT DRAINS. APRON IS NOT TO BE OMITTED AT OUTLETS UNLESS THE ENGINEER DETERMINES THAT BEDROCK WILL PREVENT EROSION AND MAKE THE APRON DIFFICULT TO CONSTRUCT. APRONS (WITHOUT BAFFLES) ARE USED AT INLETS ONLY IF PLANS SPECIFY.
- DETAILS HERESHOWN APPLY TO LRFD STANDARD BOX CULVERTS.
- ALL CONCRETE SHALL BE CLASS "AA" CONCRETE.
- SEE SEPARATE STANDARDS FOR DETAILS OF BOX CULVERTS, WINGWALLS, PARAPETS, ETC.

DESIGN DATA

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

DATE	REVISION	BY	DESCRIPTION	NUMBER
			DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
			STANDARD	
			CONCRETE BOX CULVERT APRONS AND BAFFLES DETAIL	
			NO SCALE	SEPTEMBER 2017
			(SUBMITTED) <i>B. A. Ste...</i> STATE DESIGN POLICY ENGINEER	NUMBER 2406
			(APPROVED) <i>Margaret B. Pirelo</i> CHIEF ENGINEER	SHEET 1 OF 2



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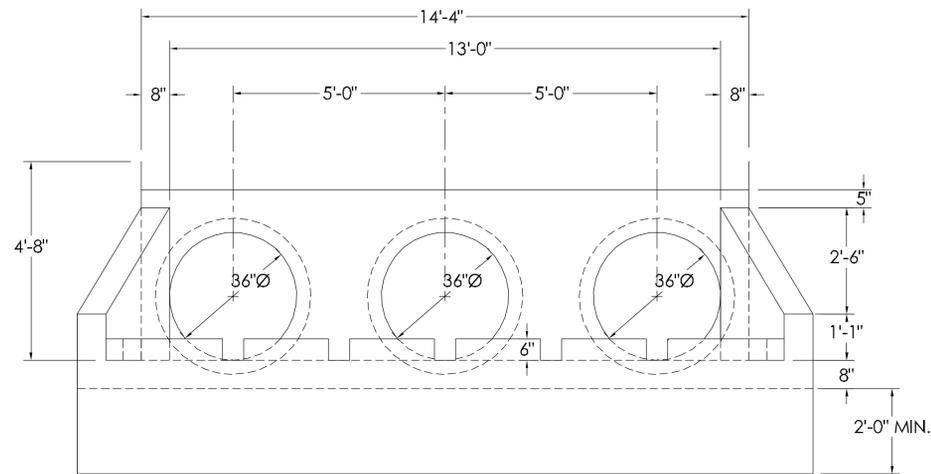
CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

DETAILS - TRIPLE 8X8 CONCRETE BOX CULVERT



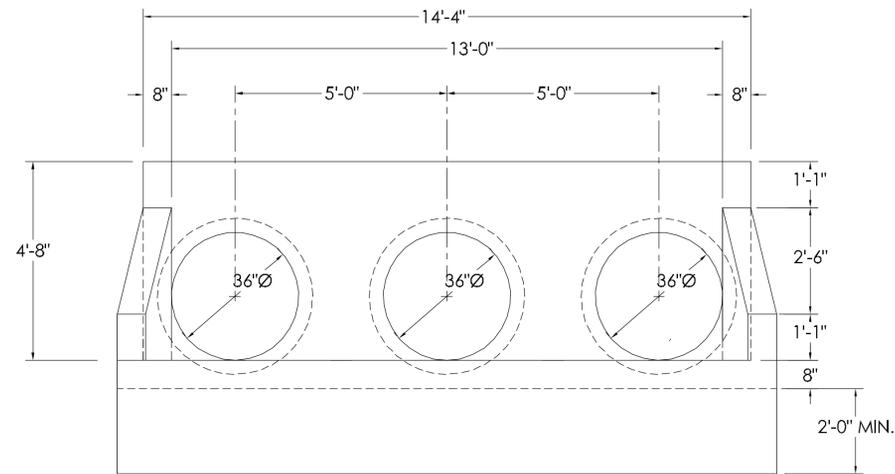
REV. NO.	DATE	DESCRIPTION	BY	APP'D	STATE	COUNTY	CITY	SECTION	DISTRICT	LAND LOT	DESIGN	SCALE
1	1/15/21	PER SDP REVIEW	JLP	DWJ	GEORGIA	FAYETTE	TYRONE	-	7th	108	MCI	AS NOTED
											DRAWN	DATE
											JTB, DWJ	10/21/19
											CHECK	FILE NO.
											DWJ	18101-24C
											APPROVED	SHEET NO.
											DWJ	10.0

OUTLET HEADWALL

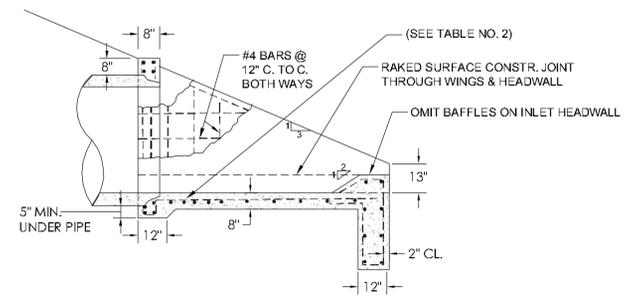


FRONT ELEVATION

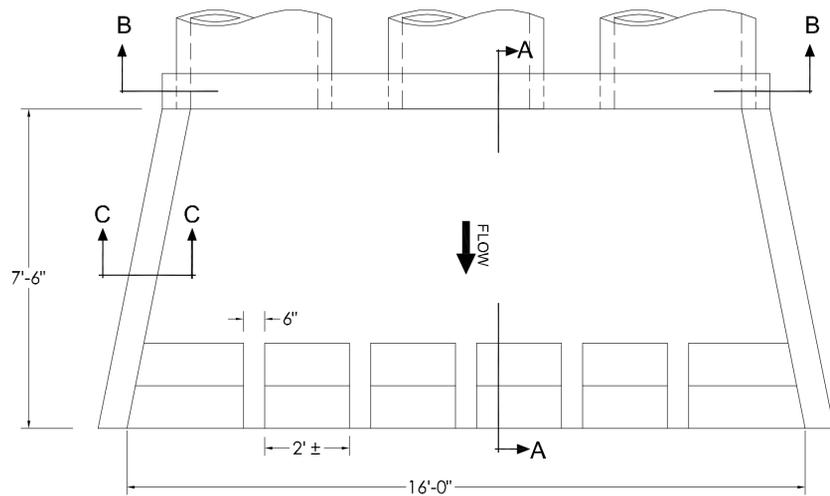
INLET HEADWALL



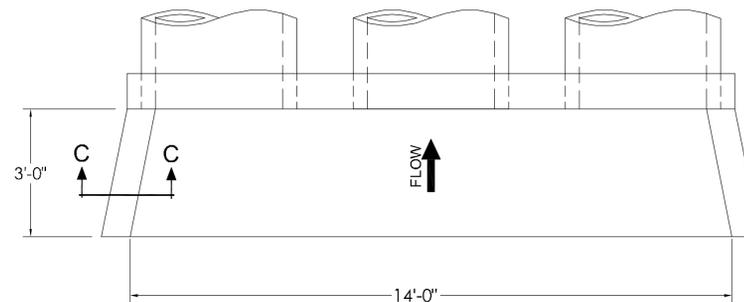
FRONT ELEVATION



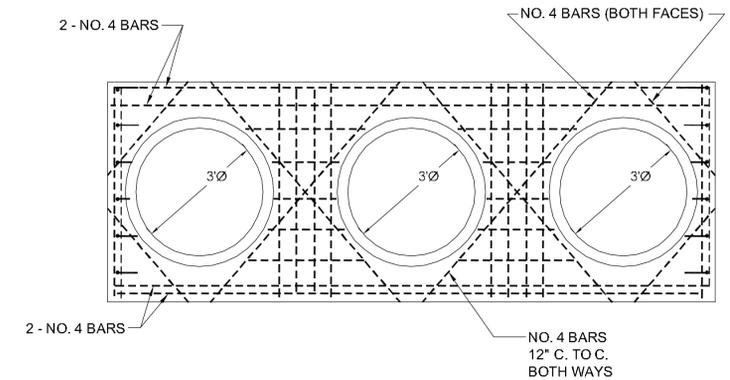
SECTION A-A



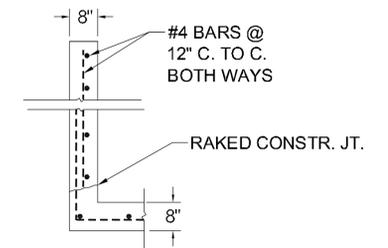
PLAN VIEW



PLAN VIEW



**SECTION B-B
(MULTIPLE PIPE LINE) ***



SECTION C-C

TABLE No.1 - QUANTITIES FOR HEADWALL											
CU. YDS. CONCRETE (PAY QUANTITIES)						LBS STEEL (GIVEN FOR INFORMATION ONLY)					
D	FOR SINGLE LINE		ADD FOR ADDITIONAL LINE			FOR SINGLE LINE		ADD FOR ADDITIONAL LINE			
	INLET	OUTLET	INLET	OUTLET		INLET	OUTLET	INLET	OUTLET		
36"	2.92	3.05	2.49	2.63		238	254	196	212		

***NOTE:**
 QUANTITIES SHOWN ARE APPROXIMATE. PAY QUANTITIES FOR CLASS "A" CONCRETE WILL BE AS INDICATED ON BID FORM, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

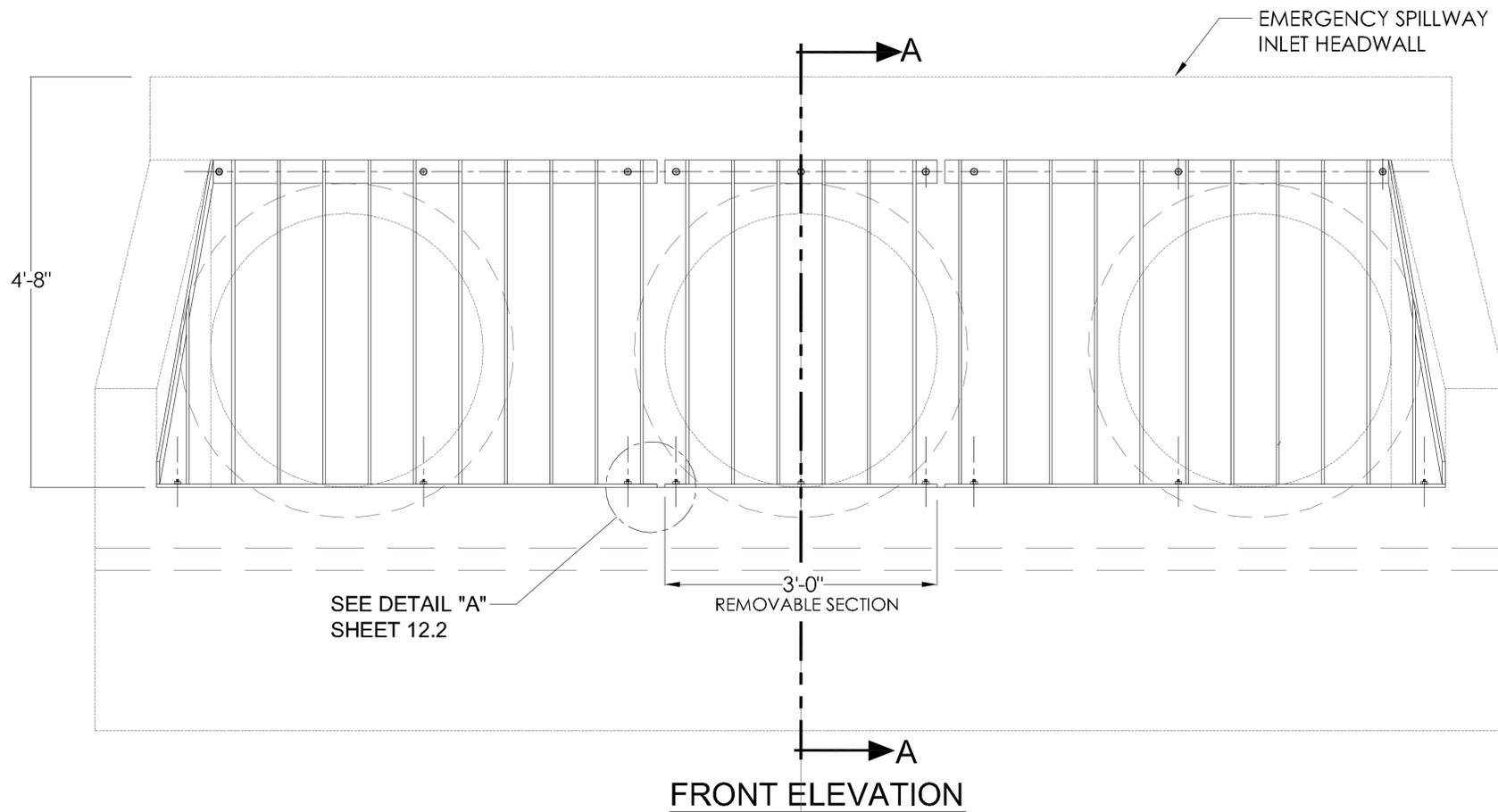
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CATEGORY I UPGRADES TO
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 TOWN OF TYRONE, GEORGIA

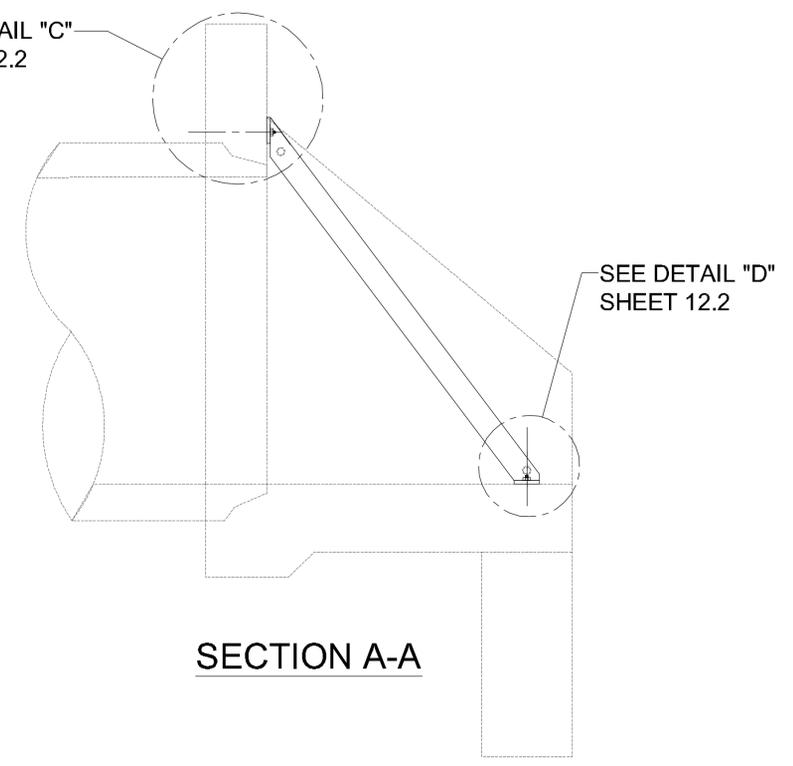
STORM LINE "A" HEADWALLS



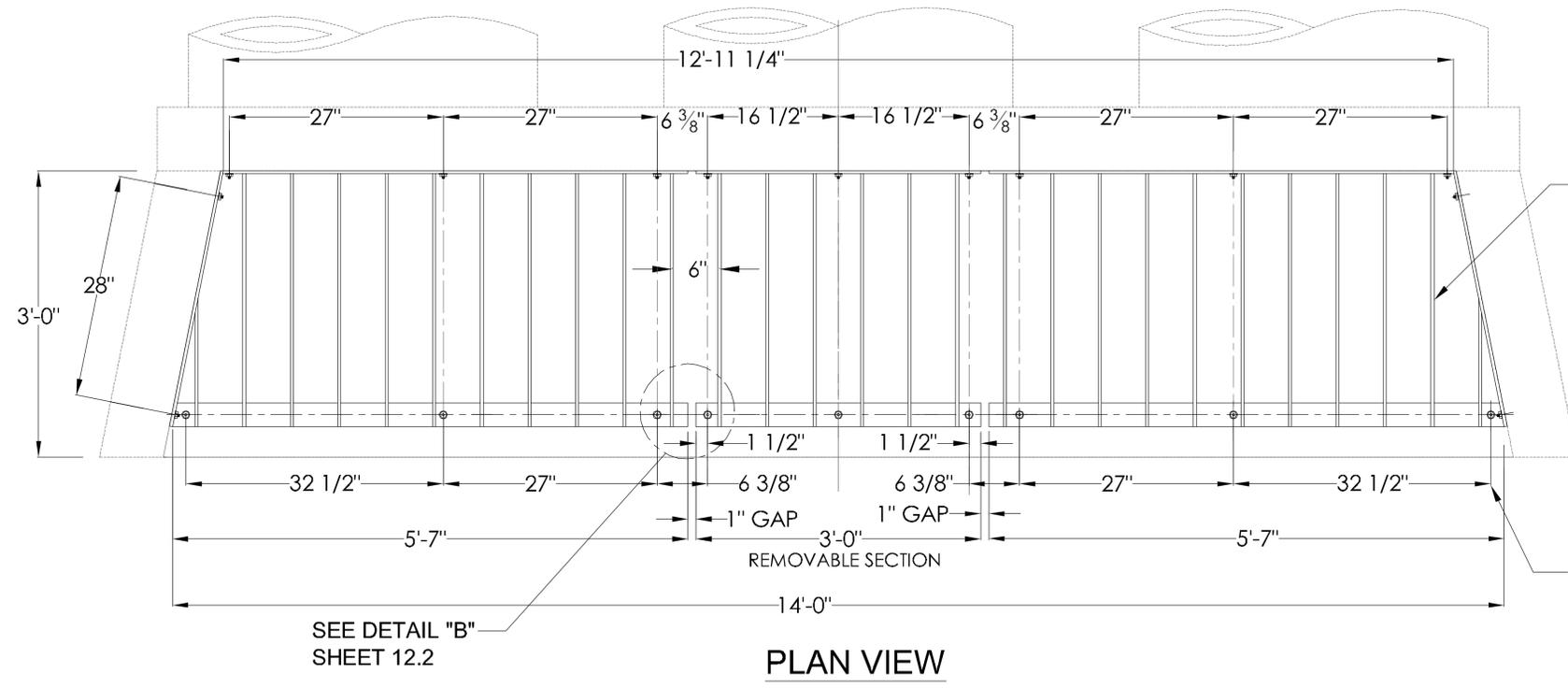
REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT - 108	DESIGN - MCI	SCALE - 1" = 2'-0"
						DISTRICT - 7th	DRAWN - JLP, DWJ	DATE - 10/21/19
						SECTION -	CHECK - DWJ	FILE NO. - 18101-24C
						CITY - TYRONE	APPROVED - DWJ	SHEET NO. - 12.0
						COUNTY - FAYETTE		
						STATE - GEORGIA		



SEE DETAIL "C"
SHEET 12.2



SECTION A-A



NOTES:

1. MAXIMUM SIZE OF OUTLET TO BE USED WITH THIS RACK IS 48" PIPE.
2. ALL EXPOSED FERROUS PARTS SHALL BE GALVANIZED.
3. IF FIELD WELDS ARE NECESSARY, USE CALVICON, GALVALLOY OR CITY APPROVED EQUAL FOR COATING.
4. ALL BOLTS SHALL BE 1/2" IN DIAMETER AND 7" IN LENGTH. ON REMOVABLE PORTION OF THE RACK, USE STAINLESS STEEL BOLTS AND NUTS. WHERE HEADWALL AND WINGWALL ARE EXISTING, HILTI KWIK-BOLT OR EQUIVALENT CAN BE USED.

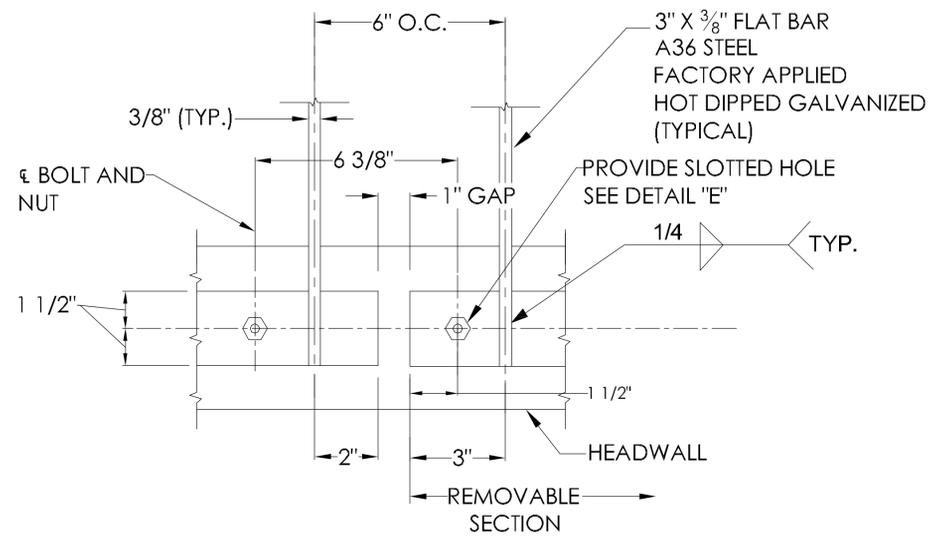
SEE SHEET 12.2 FOR DETAILS

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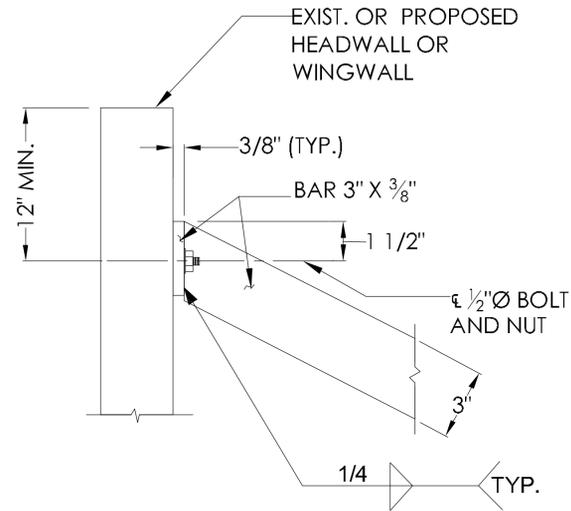
CATEGORY I UPGRADES TO
 PENDLETON LAKE DAM FOR
 TOWN OF TYRONE, GEORGIA
 STORM LINE "A" INLET
 HEADWALL TRASH GUARD



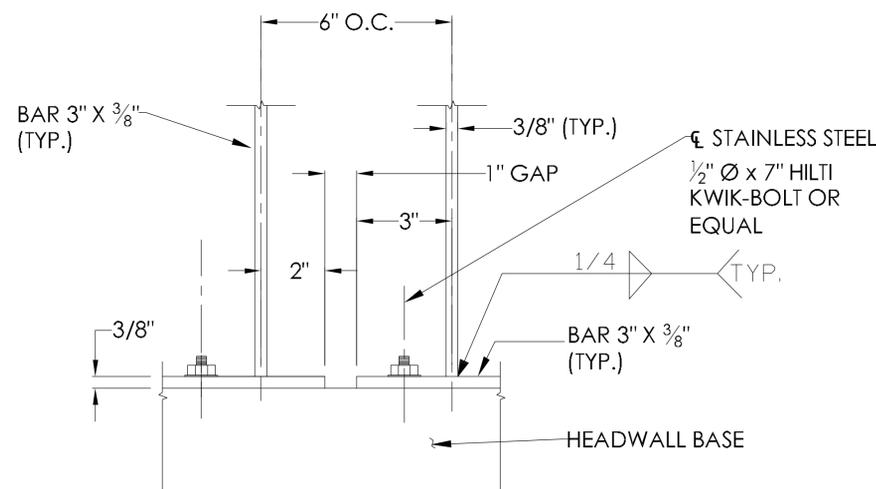
REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT - 108	DESIGN MCI	SCALE H: 1"=20' V: 1"=5'
						DISTRICT - 7th	DRAWN JLP, DWJ	DATE 10/21/19
						SECTION -	CHECK DWJ	FILE NO. 18101-24C
						CITY - TYRONE	APPROVED DWJ	SHEET NO. 12.1
						COUNTY - FAYETTE		
						STATE - GEORGIA		



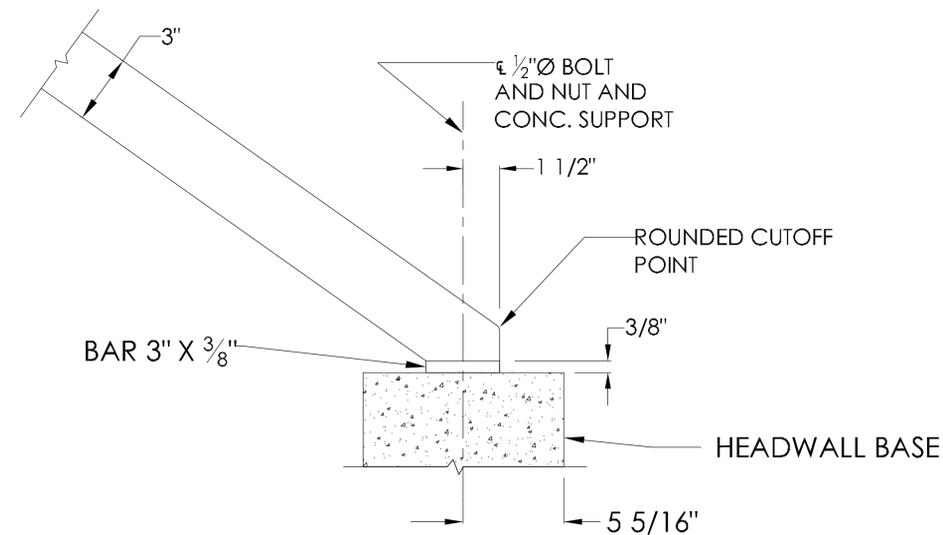
DETAIL "B"



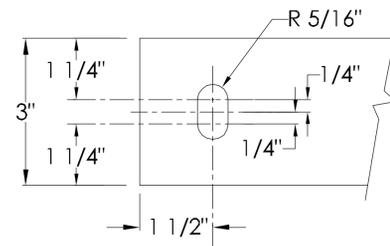
DETAIL "C"



DETAIL "A"



DETAIL "D"



DETAIL "E"
APPLIES TO THE TOP AND BOTTOM BARS OF THE REMOVABLE SECTION ONLY

NOTE:
ALL 3" X 3/8" FLAT BAR TO BE A36 STEEL, FACTORY APPLIED HOT DIPPED GALVANIZED.

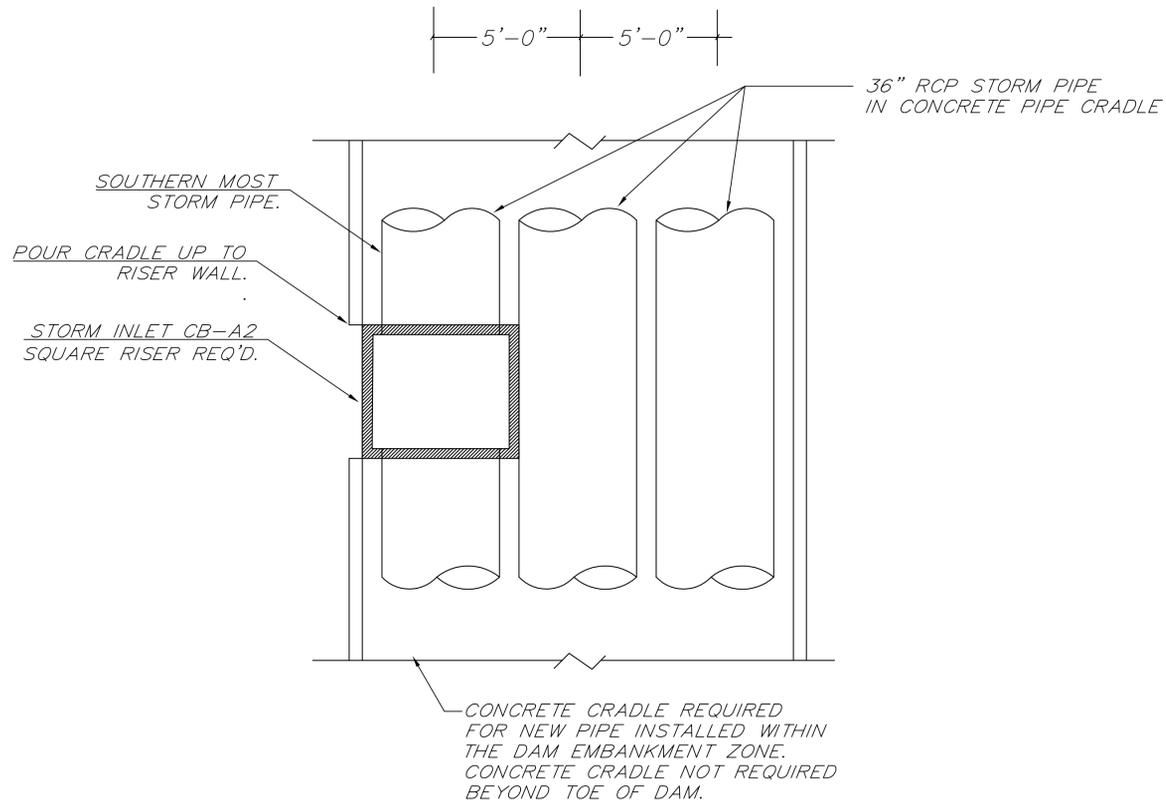
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CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

STORM LINE "A" INLET
HEADWALL TRASH GUARD DETAILS

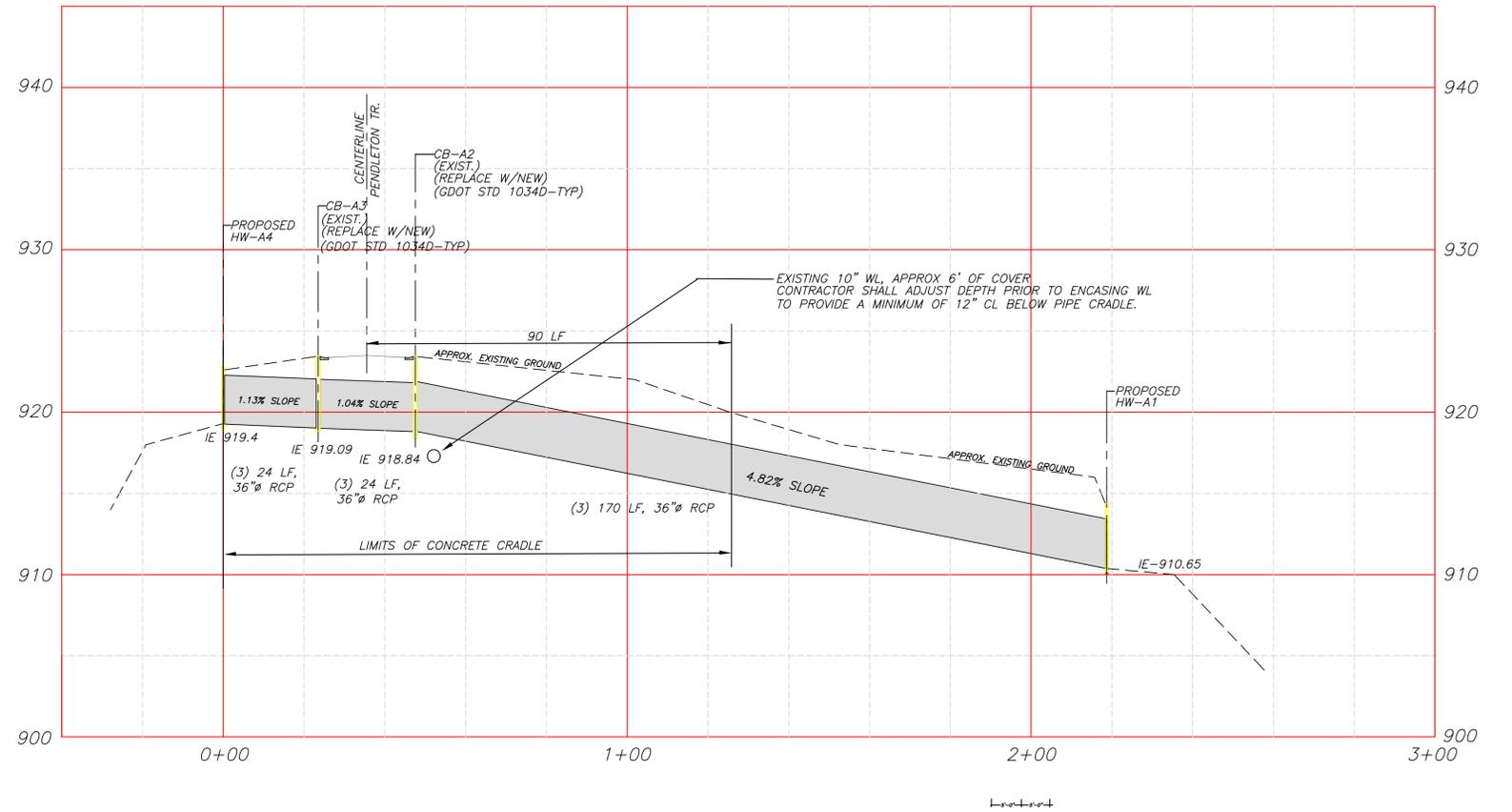
LAND LOT - 108	DESIGN - MCI	SCALE - H: 1"=20' V: 1"=5'
DISTRICT - 7th	DRAWN - JLP, DWJ	DATE - 10/21/19
SECTION -	CHECK - DWJ	FILE NO. - 18101-24C
CITY - TYRONE	APPROVED - DWJ	SHEET NO. - 12.2
COUNTY - FAYETTE		
STATE - GEORGIA		



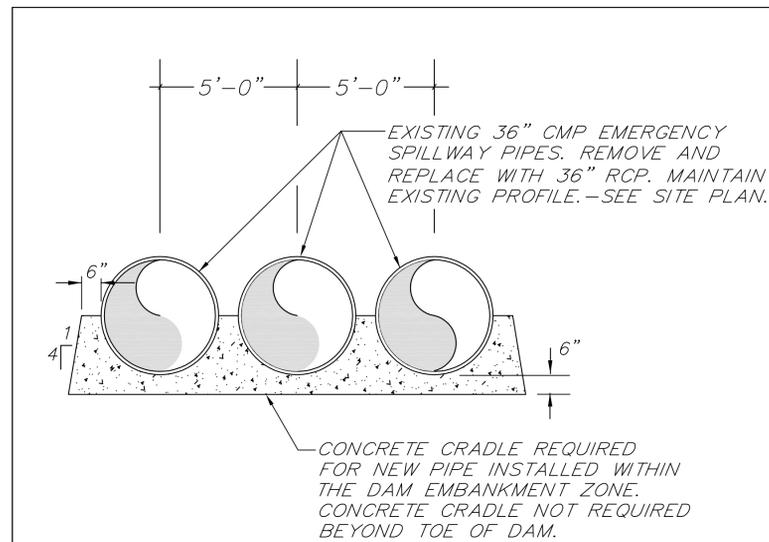


PLAN VIEW - PIPE CRADLE @ STORM INLET CB-A2

(SIMILAR AT STORM INLET CB-A3 AND FOR STORM 18" STORM LINE)



PROFILE - STORMLINE "A" - SOUTHERN-MOST PIPE



CONCRETE CRADLE DETAIL

(SIMILAR CRADLE REQUIRED FOR 18" STORM LINE)

NOTE:

1. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING 36" CMP EMERGENCY SPILLWAY PIPES (3) WITH 36" RCP. EXISTING CB-A2 AND CB-A3 SHALL BE REPLACED W/NEW. NEW HW-A1 AND HW-A4 SHALL BE INSTALLED AT THE OUTLET AND INLET ENDS OF THE NEW PIPES. THE NORTHERN-MOST AND CENTER PIPES DO NOT CONNECT TO CB-A2 AND CB-A3. THE SOUTHERN-MOST PIPE SHALL CONNECT TO CB-A2 AND CB-A3. SLOPE AND GRADES SHOWN ON THE PROFILE ARE FOR THE SOUTHERN-MOST PIPE. THE OTHER PIPES SHALL BE DEFLECTED AT EACH PIPE JOINT AS NEEDED TO APPROXIMATELY FOLLOW THE PROFILE OF THE SOUTHERN-MOST PIPE.
2. EXISTING ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS AND SHALL NOTIFY ENGINEER REGARDING ANY CONFLICTS OR IRREGULARITIES.
3. DISTURBED GRASS AREA SHALL BE RE-SODDED TO MATCH SURROUNDING SOD.

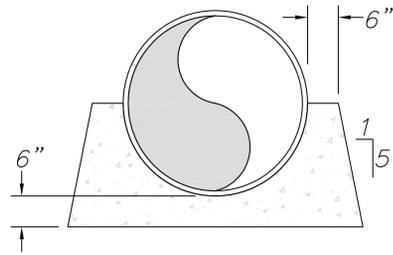
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CATEGORY I UPGRADES TO
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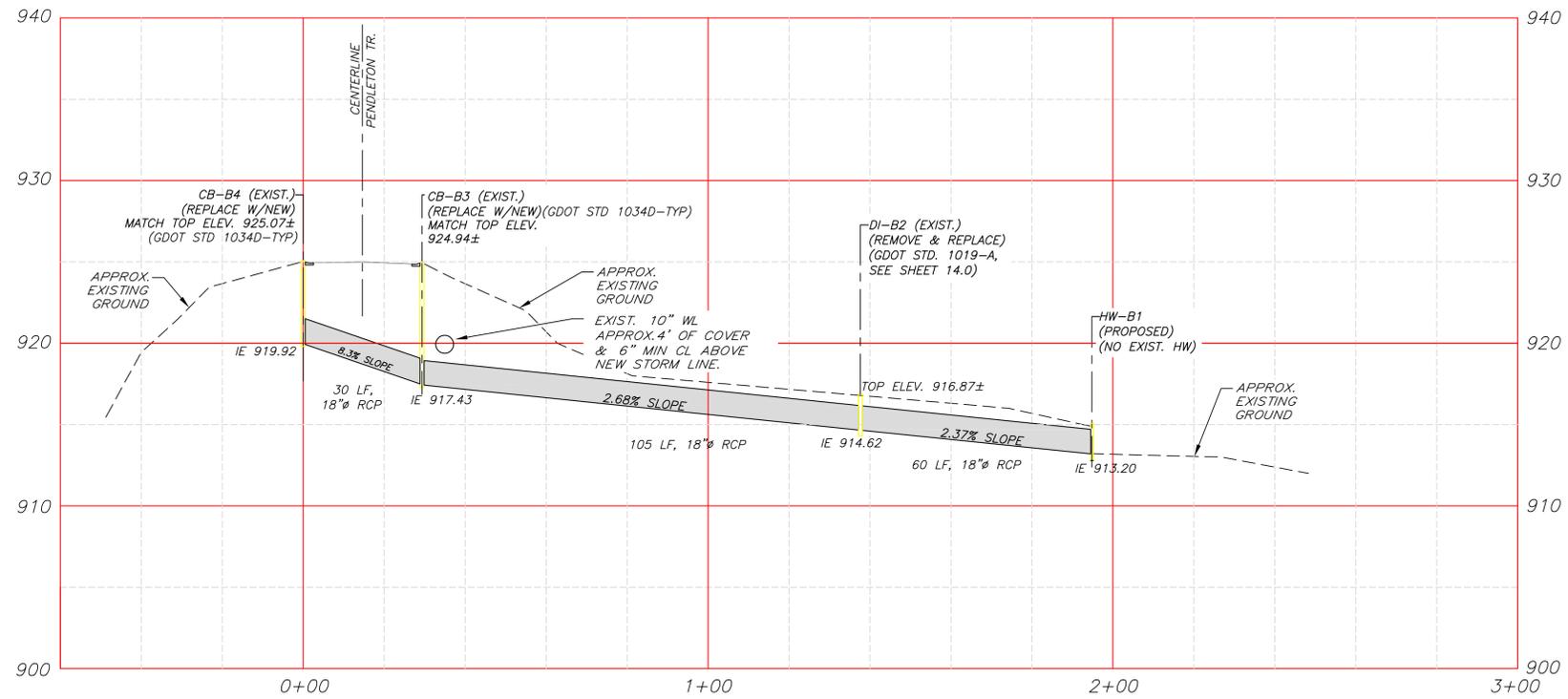
STORMLINE "A" PROFILE



REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT - 108	DESIGN	SCALE
△	2/13/25	PER SDP REVIEW	DWJ	DWJ	DISTRICT - 7th	MCI	H: 1"=20'	V: 1"=5'
△	5/10/24	PER SDP REVIEW	DWJ	DWJ	SECTION -	DRAWN	JLP, DWJ	DATE
△	7/10/23	PER SDP REVIEW	DWJ	DWJ	CITY - TYRONE	CHECK	DWJ	FILE NO.
△	1/15/21	PER SDP REVIEW	JLP	DWJ	COUNTY - FAYETTE	APPROVED	DWJ	18101-24C
					STATE - GEORGIA			SHEET NO. 12.3



CONCRETE CRADLE DETAIL
 (REQUIRED FOR NEW RCP BETWEEN
 STA 0+00 AND 0+80)



PROFILE - STORM LINE "B"

NOTES:

- EXISTING 18" CMP STORM DRAIN SHALL BE REMOVED AND REPLACED WITH NEW 18" RCP STORM DRAIN. EXISTING CATCH BASINS (CB-B3 AND CB-B4) SHALL BE REPLACE W/NEW.
- EXISTING ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ORDERING MATERIALS AND SHALL NOTIFY ENGINEER REGARDING ANY CONFLICTS OR IRREGULARITIES.
- DISTURBED GRASS AREA SHALL BE RE-SODDED TO MATCH SURROUNDING SOD.

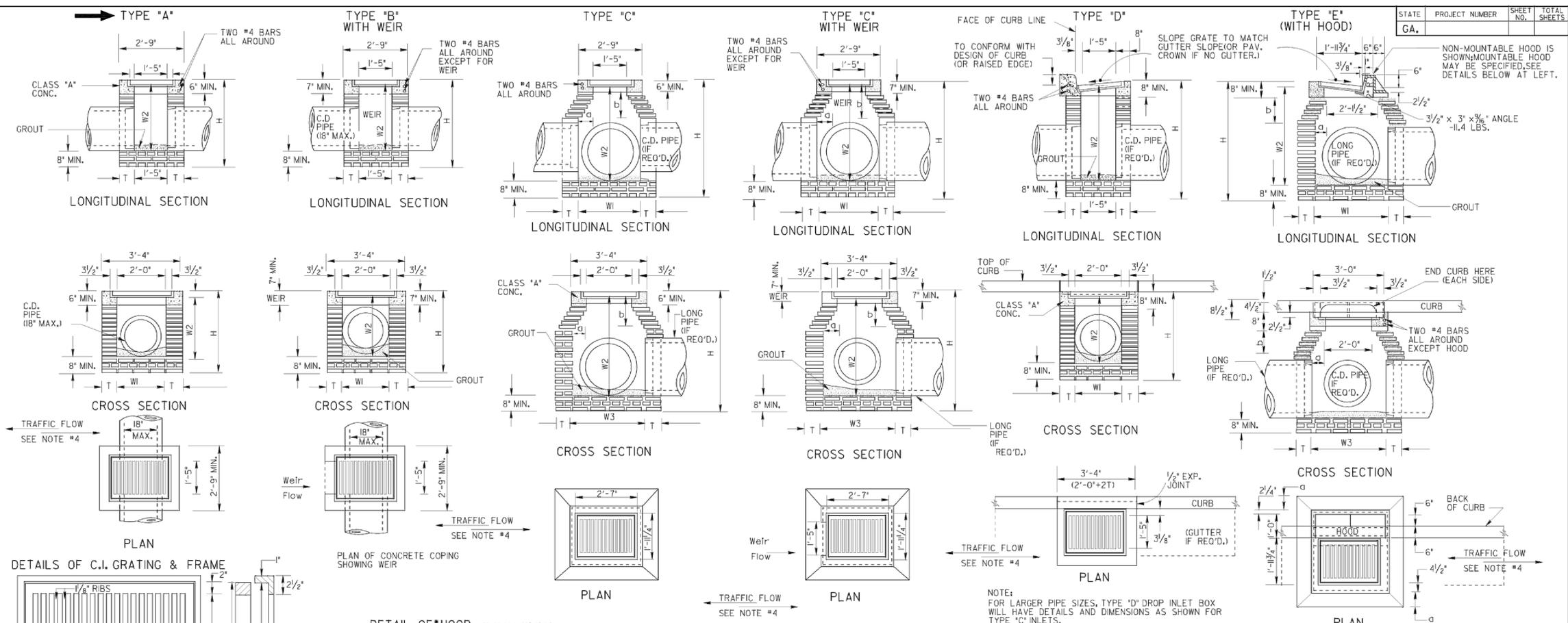
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 101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214
 PHONE: 770-719-3333
 FAX: 770-719-3377

CATEGORY I UPGRADES TO
 PENDLETON LAKE DAM FOR
 TOWN OF TYRONE, GEORGIA

PROFILE - STORMLINE "B"



REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT - 108	DESIGN MCI	SCALE H: 1"=20' V: 1"=5'
						DISTRICT - 7th	DRAWN JLP, DWJ	DATE 10/21/19
	2/13/25	PER SDP REVIEW	DWJ	DWJ		SECTION -	CHECK DWJ	FILE NO. 18101-24C
	7/10/23	PER SDP REVIEW	DWJ	DWJ		CITY - TYRONE	APPROVED DWJ	SHEET NO. 13.0
	1/15/21	PER SDP REVIEW	JLP	DWJ		COUNTY - FAYETTE		
						STATE - GEORGIA		



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NON-MOUNTABLE HOOD IS SHOWN; MOUNTABLE HOOD MAY BE SPECIFIED. SEE DETAILS BELOW AT LEFT.

SPECIAL NOTE:
STANDARD IO19A INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD IO18B IS RECOMMENDED.

- GENERAL NOTES:**
- SPECIFICATIONS: GEORGIA STANDARD AND CURRENT EDITION, AND SUPPLEMENTS THERETO.
 - 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
 - ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL. SEE PLANS FOR ACTUAL PIPE CULVERT REQUIREMENTS.
 - ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
 - BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN, BOTTOM SLAB MAY BE 8" MIN. NON-REINFORCED CONCRETE, 8" BRICK OR 6" MIN. REINFORCED CONCRETE. SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

NOTE:
MINIMUM DIMENSIONS GIVEN IN TABLE BELOW ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES WITH NORMAL COVER AND CLEARANCES. THESE DIMENSIONS MAY BE MODIFIED IF SO DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. DIMENSIONS GIVEN ARE MINIMUM EXCEPT FOR "d" WHICH IS MAXIMUM.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPE "A" OR "B" (BRICK OR REIN. CONC.)			TYPE "C" OR "D" (BRICK)						TYPE "E" (BRICK)						TYPE "C", "D" OR "E" (REINFORCED CONCRETE)						
	W1	W2	H(min.)	W1	W2	W3	C (MAX.)	b	H(min.)	W1	W2	W3	C (MAX.)	b	H(min.)	W1	W2	W3	d (MAX.)	b	H(min.)	
18"	2'-0"	2'-7"	3'-3 1/2"	2'-2 1/8"	2'-9"	2'-9"	0'-4 3/8"	0'-7 1/8"	3'-9 1/2"	3'-2 1/4"	3'-1"	3'-0 5/8"	0'-7 1/8"	1'-4 1/8"	3'-1 1/2"	2'-0"	2'-1"	2'-7"	2'-0"	3 1/2"	6"	3'-6"
24"	2'-0"	2'-10"	3'-7"	2'-2 1/8"	3'-2 1/2"	2'-9"	0'-4 3/8"	0'-7 1/8"	4'-1"	3'-2 1/4"	3'-4 1/2"	3'-0 5/8"	0'-7 1/8"	1'-4 1/8"	4'-1"	2'-0"	2'-1"	3'-0"	2'-0"	3 1/2"	6"	3'-11"
30"	~	~	~	2'-8 1/8"	3'-3 1/8"	3'-3 1/8"	0'-7 1/8"	1'-1 1/8"	4'-9"	3'-2 1/4"	3'-11 1/2"	3'-0 5/8"	0'-7 1/8"	1'-4 1/8"	4'-8 1/4"	2'-8"	2'-9"	3'-8"	2'-6"	6 1/2"	11 1/4"	4'-7"
36"	~	~	~	3'-7 1/4"	4'-0 1/4"	3'-10 1/8"	1'-0 1/8"	1'-9"	5'-10"	3'-5 1/2"	4'-8 3/8"	3'-4"	0'-8"	1'-1 1/8"	5'-6 1/8"	3'-4"	3'-6"	4'-9"	3'-0"	9 1/2"	16 1/2"	5'-10"
42"	~	~	~	4'-1 1/8"	6'-0 5/8"	4'-8 1/8"	1'-4 1/8"	2'-2 1/4"	6'-11 1/8"	3'-11 1/2"	5'-8 3/8"	3'-10"	0'-11"	1'-7 1/8"	6'-7 1/8"	3'-10"	4'-0"	5'-10"	3'-9"	1'-2"	2'-0"	6'-10"
48"	~	~	~	4'-5"	7'-1 1/4"	5'-0"	1'-6"	2'-7 1/8"	8'-0 1/4"	4'-6 1/2"	7'-5 1/8"	4'-5"	1'-2 1/2"	2'-1 3/8"	8'-4 3/8"	4'-5"	4'-6"	7'-0"	4'-3"	1'-5"	2'-5 1/2"	7'-11"
54"	~	~	~	5'-0"	8'-2 3/4"	5'-7"	1'-9 1/2"	3'-4 1/4"	9'-1 1/4"	5'-1 1/2"	8'-0 1/4"	5'-0"	1'-6"	2'-7 1/8"	9'-5 1/8"	5'-0"	5'-0"	8'-2"	5'-0"	1'-9 1/2"	3'-1 1/2"	9'-2"
60"	~	~	~	5'-7"	9'-4"	6'-2"	2'-1"	3'-7 1/2"	10'-2 1/2"	5'-8 1/4"	9'-7 1/4"	5'-7"	1'-9 1/2"	3'-4 1/4"	10'-8 1/4"	5'-6"	5'-6"	9'-2"	5'-6"	2'-0 1/2"	3'-6 1/2"	10'-0"

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD DROP INLETS
(BUILT-IN-PLACE)

SCALE AS SHOWN REV. & REDR. AUG., 1999

DES. (SUBMITTED) *James G. Gandy*
REV. (APPROVED) *David W. J. J. J.*
TR. (APPROVED) *David W. J. J. J.*
CHK. (APPROVED) *David W. J. J. J.*

NUMBER 1019A



REV. NO.	DATE	DESCRIPTION	BY	APP'D
1	1/15/21	PER SDP REVIEW	JLP	DWJ

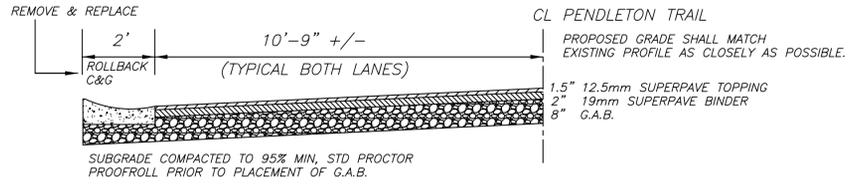
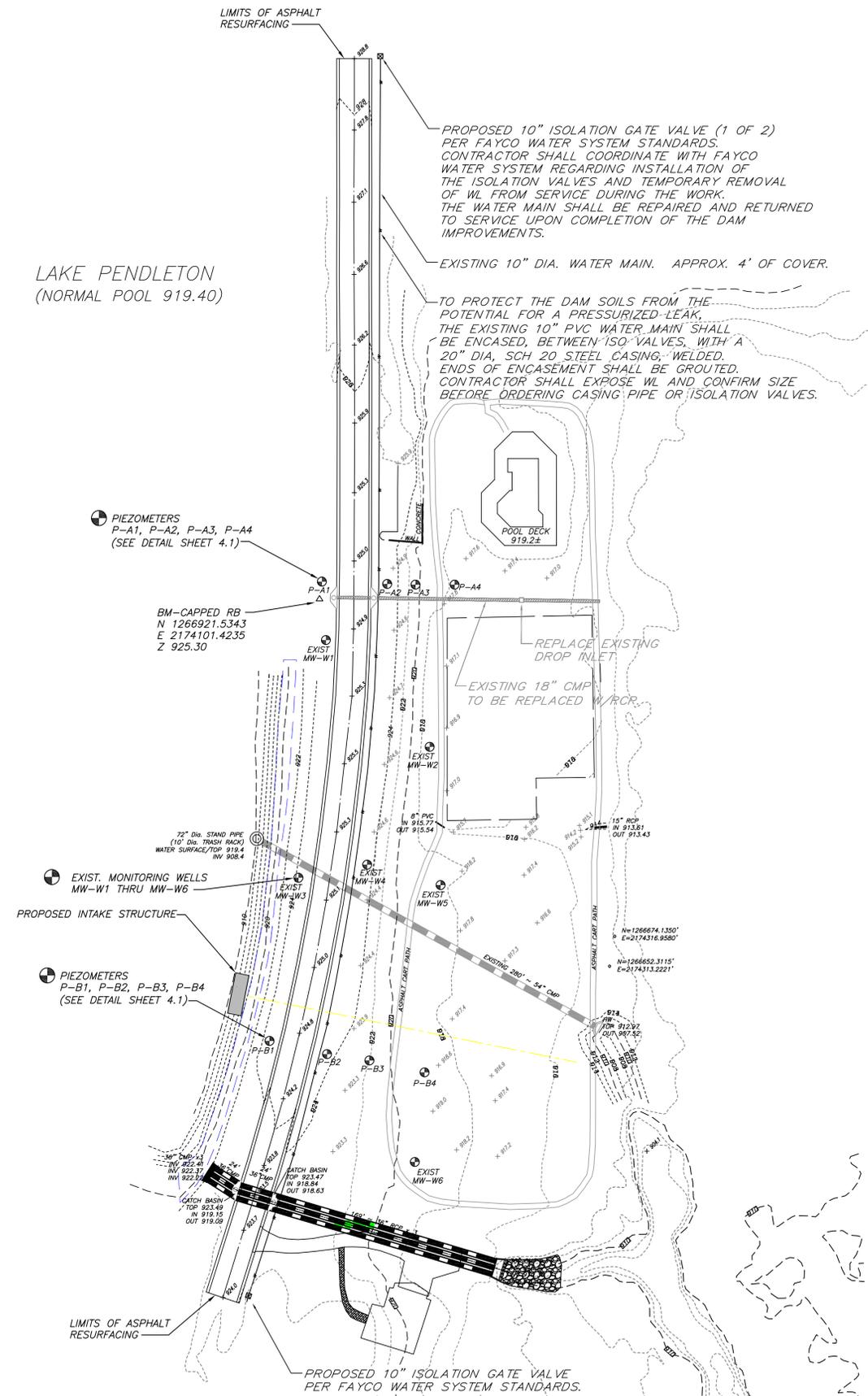
Mallett Consulting, Inc.
101 DEVANT ST., SUITE 804 FAYETTEVILLE, GEORGIA 30214
PHONE: 770-719-3333
FAX: 770-719-3377

CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

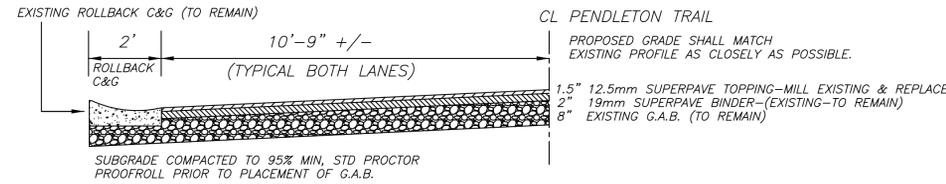
DROP INLET DETAILS

LAND LOT - 108	DESIGN - MCI	SCALE - N.T.S.
DISTRICT - 7th	DRAWN - JLP, DWJ	DATE - 10/21/19
SECTION -	CHECK - DWJ	FILE NO. - 18101-24C
CITY - TYRONE	APPROVED - DWJ	SHEET NO. - 14.0
COUNTY - FAYETTE		
STATE - GEORGIA		

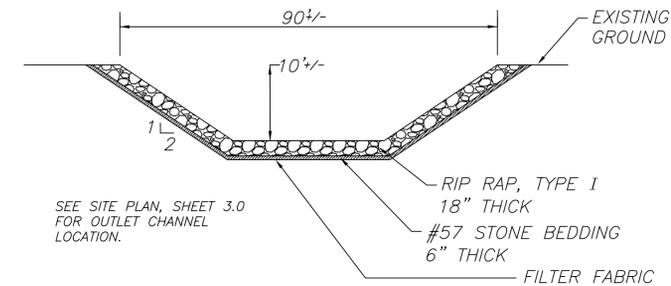
LAKE PENDLETON
(NORMAL POOL 919.40)



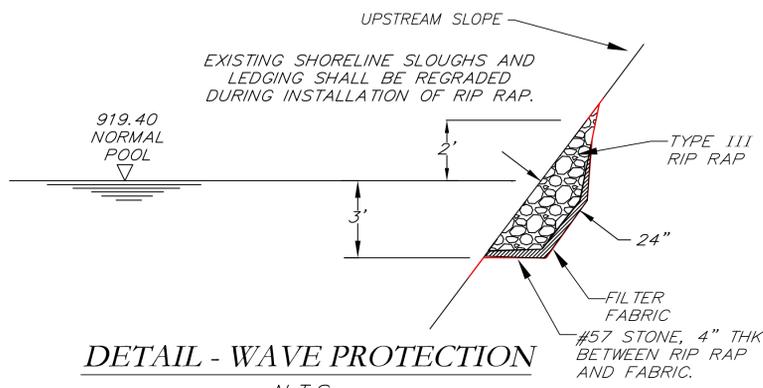
TYPICAL PAVEMENT SECTION - FULL DEPTH
NOT TO SCALE



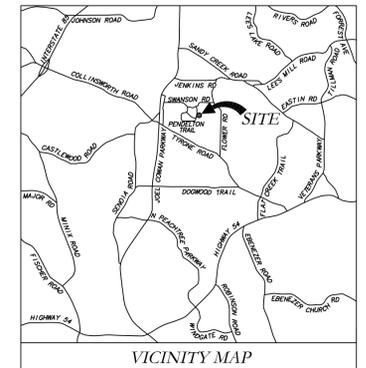
TYPICAL PAVEMENT SECTION - MILL & RESURFACE
NOT TO SCALE



TYPICAL SECTION AT OUTLET CHANNEL
NOT TO SCALE



DETAIL - WAVE PROTECTION
N. T. S.



- PAVING NOTES:**
1. WITHIN LIMITS OF EXCAVATION FOR NEW WORK, ROADWAY SHALL BE REPAIRED AS SHOWN IN THE TYPICAL PAVEMENT SECTION, "FULL DEPTH"
 2. ROADWAY OUTSIDE OF EXCAVATION LIMITS SHALL HAVE THE EXISTING ASPHALT TOPPING MILLED AND REPLACED PER THIS TYPICAL PAVEMENT SECTION, "MILL AND RESURFACE", TO THE LIMITS SHOWN FOR ASPHALT RESURFACING.

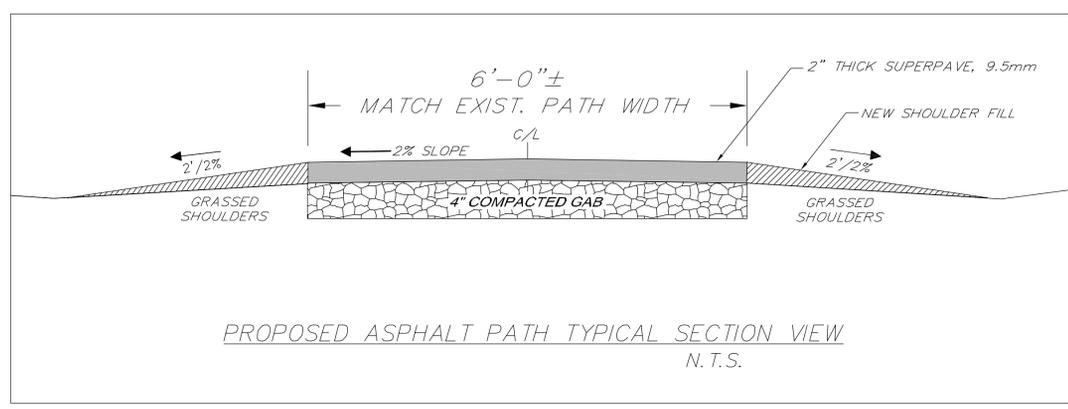
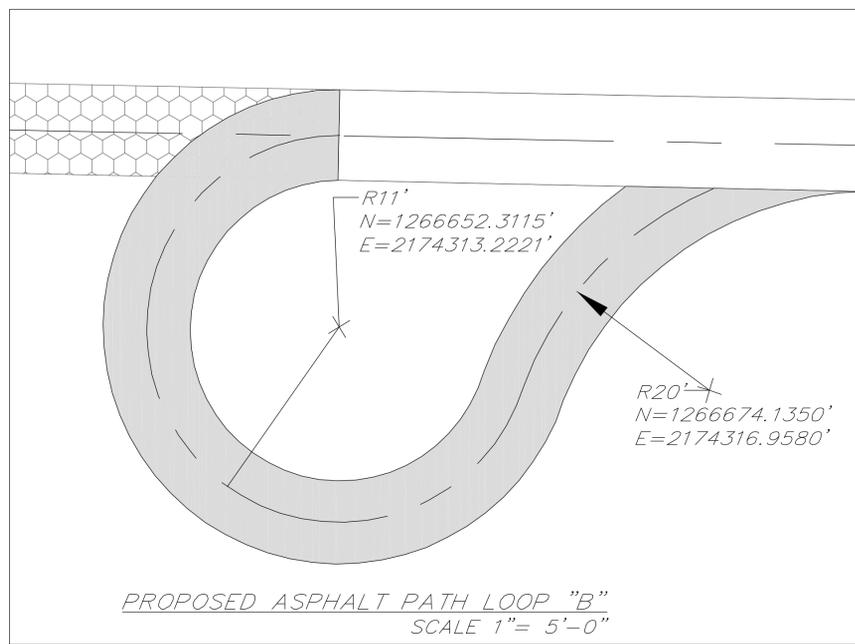
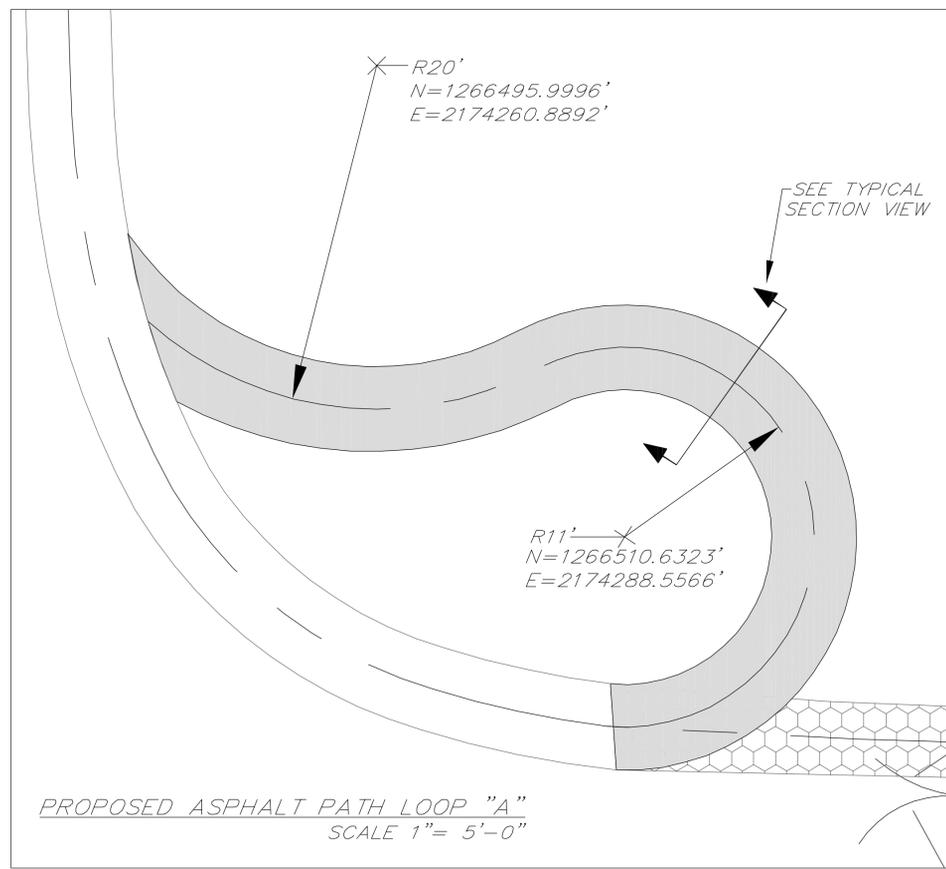
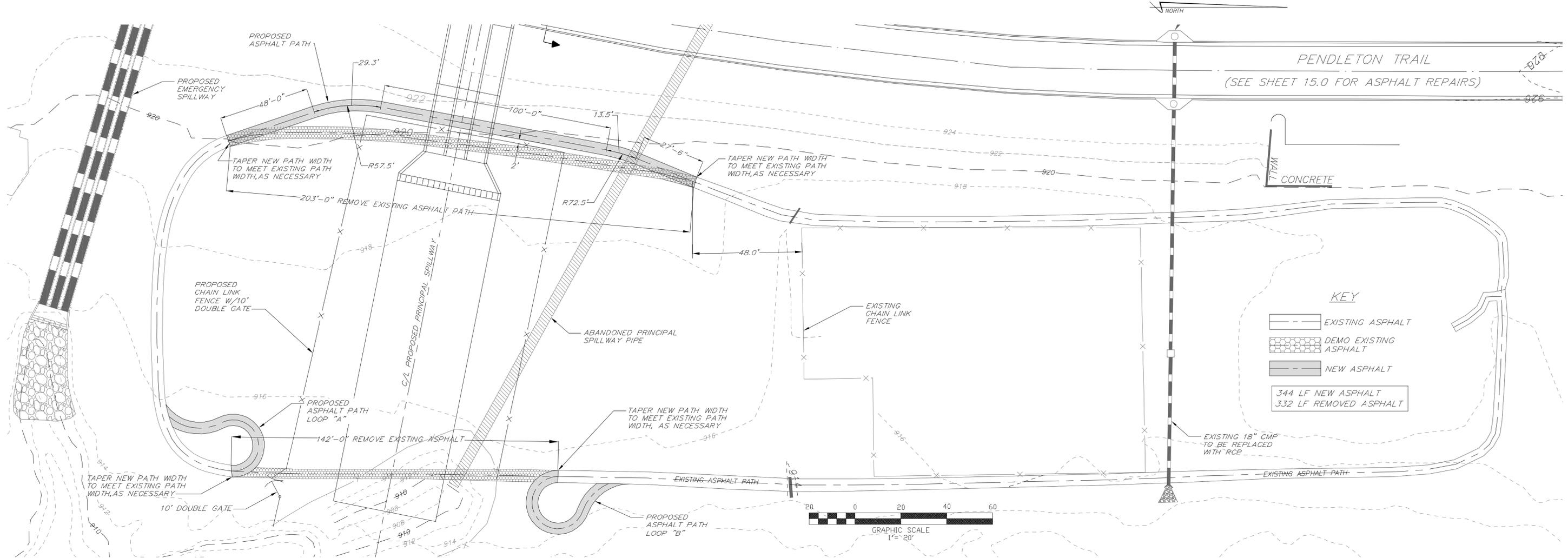
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CATEGORY I UPGRADES TO
PENDLETON LAKE DAM FOR
TOWN OF TYRONE, GEORGIA

UTILITY PLAN, PAVING PLAN & CONSTRUCTION DETAILS



REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT - 108	DESIGN	SCALE
△	2-13-25	PER SDP REVIEW	DWJ	DWJ	GEORGIA	DISTRICT - 7th	MCJ	1"=50'
△	5-10-24	PER SDP REVIEW	DWJ	DWJ	GEORGIA	SECTION -	JTB, DWJ	DATE 10/21/19
△	7-10-23	PER SDP REVIEW	DWJ	DWJ	GEORGIA	CITY - TYRONE	CHECK DWJ	FILE NO. 18101-24C
△	1/15/21	PER SDP REVIEW	JLP	DWJ	GEORGIA	COUNTY - FAYETTE	APPROVED DWJ	SHEET NO. 15.0



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 PHONE: 770-719-3333
 FAX: 770-719-3377

CATEGORY I UPGRADES TO
 PENDLETON LAKE DAM FOR
 TOWN OF TYRONE, GEORGIA

ASPHALT PATH MODIFICATIONS

LAND LOT - 108	DESIGN - MCI	SCALE - AS NOTED
DISTRICT - 7th	DRAWN - JTB, DWJ	DATE - 10/21/19
SECTION -	CHECK - DWJ	FILE NO. - 18101-24C
CITY - TYRONE	APPROVED - DWJ	SHEET NO. - 16.0
COUNTY - FAYETTE		
STATE - GEORGIA		

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

GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 12887
 DAVID W. J. REEDER

REV. No.	DATE	DESCRIPTION	BY	APP'D
1	1/15/21	PER SDP REVIEW	JLP	DWJ