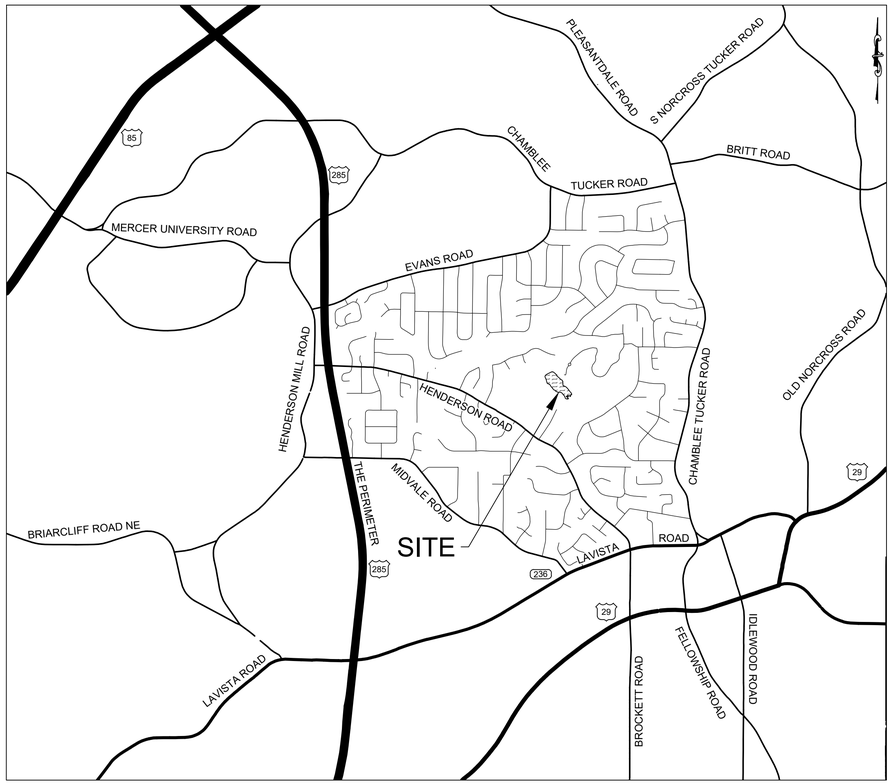
ANSI D 22" x 34"

CITY OF TUCKER
LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

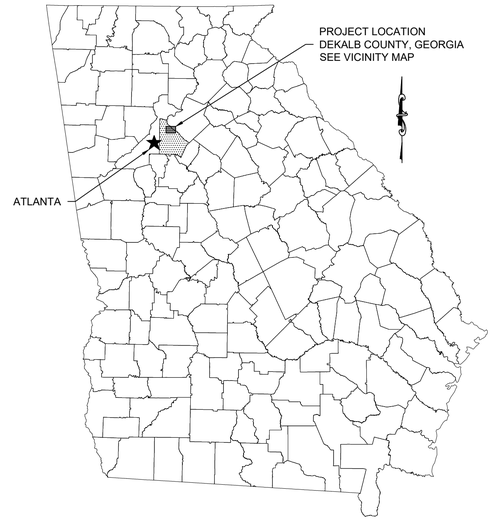
SHEET INDEX		
SHEET NUMBER	DRAWING NUMBER	DRAWING NAME
01	G001	COVER SHEET
02	G002	GENERAL NOTES
03	G003	ABBREVIATIONS AND LEGEND
04	C101	GEOMETRY PLAN
05	C102	EXISTING CONDITIONS AND DEMOLITION PLAN
06	C103	EXCAVATION PLAN
07	C104	SITE AND GRADING PLAN
08	C201	PRINCIPAL SPILLWAY AND EMBANKMENT PROFILE
09	C202	TYPICAL SECTIONS AND DETAILS (1 OF 3)
10	C203	TYPICAL SECTIONS AND DETAILS (2 OF 3)
11	C204	TYPICAL SECTIONS AND DETAILS (3 OF 3)
12	C205	FILTER DIAPHRAGM DETAILS
13	C206	FILTER DIAPHRAGM OUTLET PROFILES
14	C207	TOE DRAIN PROFILES
15	C208	TOE DRAIN DETAILS
16	S101	INTAKE TOWER DETAILS (1 OF 6)
17	S102	INTAKE TOWER DETAILS (2 OF 6)
18	S103	INTAKE TOWER DETAILS (3 OF 6)
19	S104	INTAKE TOWER DETAILS (4 OF 6)
20	S105	INTAKE TOWER DETAILS (5 OF 6)
21	S106	INTAKE TOWER DETAILS (6 OF 6)
22	S107	INTAKE TOWER REINFORCEMENT (1 OF 2)
23	S108	INTAKE TOWER REINFORCEMENT (2 OF 2)
24	S201	IMPACT BASIN DETAILS (1 OF 2)
25	S202	IMPACT BASIN DETAILS (2 OF 2)
26	S203	IMPACT BASIN REINFORCEMENT (1 OF 2)
27	S204	IMPACT BASIN REINFORCEMENT (2 OF 2)
28	S205	GEORGIA DOT CHAIN LINK FENCE DETAILS
29	S301	LOW LEVEL OUTLET HEADWALL DETAILS
30	S302	WEST TOE DRAIN HEADWALL DETAILS
31	S401	STRUCTURAL NOTES
32	C301	CONSTRUCTION ACCESS AND STAGING PLAN
33	C302	EROSION AND SEDIMENT CONTROL INITIAL PHASE (1) PLAN
34	C303	EROSION AND SEDIMENT CONTROL INTERMEDIATE PHASE (2) PLAN
35	C304	EROSION AND SEDIMENT CONTROL INTERMEDIATE PHASE (3) PLAN
36	C305	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 4)
37	C306	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 4)
38	C307	EROSION AND SEDIMENT CONTROL DETAILS (3 OF 4)
39	C308	EROSION AND SEDIMENT CONTROL DETAILS (4 OF 4)
40	C309	EROSION AND SEDIMENT CONTROL NOTES (1 OF 3)
41	C310	EROSION AND SEDIMENT CONTROL NOTES (2 OF 3)
42	C311	EROSION AND SEDIMENT CONTROL NOTES (3 OF 3)
43	C312	EROSION AND SEDIMENT CONTROL DRAINAGE MAP
44	O101	GEOTECHNICAL EXPLORATION AND INSTRUMENTATION LOCATION PLAN
45	O102	PIEZOMETER PLAN AND PROFILE
46	O103	PIEZOMETER DETAILS
47	C401	EROSION AND SEDIMENT CONTROL FINAL PHASE (4) / LANDSCAPE AND VEGETATION PLAN



VICINITY MAP

0 2000' 4000'

SCALE:1"=2000'



GEORGIA COUNTY MAP

0 250000' 500000'

SCALE:1"=250000'

ENVIRONMENTAL IMPACTS SUMMARY TABLE		
TREE REMOVAL	30	TREES
PERMANENT STREAM IMPACTS	168 (0.034)	LF (AC)
TEMPORARY STREAM IMPACTS	20 (0.003)	LF (AC)
PERMANENT WETLAND IMPACT	0.009	AC

SITE SUMMARY TABLE		
LOD	136,187	SF
LOD	3.12	AC
CUT	12,800	CY
FILL	14,300	CY
CUT/FILL BALANCE	1,500	CY

NOTE: THE CUT/FILL NUMBERS PROVIDED ABOVE ARE FOR PERMIT INFORMATION ONLY AND ARE NOT FOR BIDDING PURPOSES.

PROJECTION LOCATION					
ADDRESS	OWNER	DEED BOOK / PAGE	PARCEL	LATITUDE	LONGITUDE
4000 HENDERSON PARK ROAD TUCKER, GA 30084	CITY OF TUCKER	29133 / 00090	18 252 01 022	33°52'0"	-84°13'45"

PERMIT TABLE		
PERMIT	EFFECTIVE DATE	EXPIRATION DATE
NATIONWIDE PERMIT (NWP) NO. 3 SAS-2024-00604		
NPDES CONSTRUCTION STORMWATER GENERAL PERMIT FOR INFRASTRUCTURE, (GAR 100002)		
STREAM BUFFER VARIANCE		
CITY OF TUCKER LAND DISTURBANCE PERMIT (LDP)		
GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) SAFE DAMS PROGRAM (SDP) PERMIT		

GEORGIA811 Contact 811 before you dig.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

24-HOUR CONTACT NAME: ISHRI SANKAR
PHONE NUMBER: 470-515-1501

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE ____ BY

ISSUED FOR CONSTRUCTION ____ DATE ____ BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

COVER SHEET

SHEET NUMBER

G001

SHEET 01 OF 47

LAST SAVED BY: WEISA (2024-09-18) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERIN\DAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PCV-G001-LAKEERIN.DWG

ANSI D 22" x 34"

GENERAL NOTES:

1. ONLY DRAWINGS THAT HAVE BEEN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA AND SIGNED BY THE APPROPRIATE REGULATING AUTHORITY SHALL BE USED FOR THE CONSTRUCTION OF IMPROVEMENTS SHOWN ON THESE DRAWINGS. COMPUTER AIDED DESIGN AND DRAFTING (CADD) AND OTHER ELECTRONIC FILES MAY BE USED FOR THE BENEFIT OF THE CONTRACTOR BUT ARE NOT CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS.
2. DIMENSIONS ON DRAWINGS ARE SHOWN TO SCALE WHEN DRAWINGS ARE PRINTED TO 22-INCHES BY 34-INCHES. ELEMENTS SHOWN ON THE DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS. THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IF ANY DIMENSIONS ARE IDENTIFIED AS MISSING FROM THE DRAWINGS.
3. SURVEYS SHOWN IN THE CONSTRUCTION DOCUMENTS WERE CONDUCTED BY ACCURA ENGINEERING AND CONSULTING SERVICES, INC. IN MARCH 2021.
4. DRAWINGS ARE PRESENTED IN THE FOLLOWING HORIZONTAL AND VERTICAL DATUMS:
   A. HORIZONTAL: NORTH AMERICAN DATUM OF 1983, NATIONAL ADJUSTMENT OF 2011 (NAD83/2011), GEORGIA STATE PLANE COORDINATE SYSTEM, WEST ZONE
   B. VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
5. EXISTING UTILITIES SHOWN HEREON WERE LOCATED USING INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED. THE CONTRACTOR SHALL CONTACT (800) 282-7411, A MINIMUM OF 48 HOURS IN ADVANCE OF ANY DIGGING, EXCAVATING, FILLING, OR OTHER EARTHWORK TO HAVE UNDERGROUND UTILITIES LOCATED.
6. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER AND ENGINEER OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS (SIGNED, SEALED AND APPROVED DRAWINGS AND SPECIFICATIONS) AND/OR SITE CONDITIONS BEFORE WORK COMMENCES.
7. THE CONTRACTOR SHALL NOT MAKE FIELD CHANGES OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS WITHOUT PRIOR APPROVAL OF THE OWNER AND ENGINEER.
8. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH THE PROJECT SITE INCLUDING ACCESS LIMITATIONS, SURFACE CONDITIONS, SUBSURFACE SOIL CONDITIONS, GROUNDWATER LEVELS, ETC.
9. SHOP DRAWINGS AND/OR TECHNICAL SUBMITTALS FOR ALL CONSTRUCTION MATERIALS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW AND BE APPROVED BY THE OWNER AND ENGINEER BEFORE STARTING WORK.
10. THE CONTRACTOR SHALL COMPLY WITH ALL PERMITS AND CONDITIONS THEREOF.
11. THESE DRAWINGS DO NOT CONTAIN PROVISIONS FOR CONSTRUCTION SAFETY. WORK SHALL COMPLY WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT" OF 1970, AND RELATED AND RESULTING REGULATIONS THEREOF APPLICABLE TO THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE HEALTH AND SAFETY OF EACH EMPLOYEE IN AN EXCAVATION AND IS REQUIRED TO FOLLOW OSHA AND STATE OF GEORGIA REQUIREMENTS.
12. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND PROPERLY DISPOSING OF ALL UNUSABLE, UNSUITABLE, OR OTHER WASTE MATERIALS FROM CONSTRUCTION ACTIVITY AT THE CONTRACTOR'S OWN EXPENSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS.
13. DAMAGED SITE FEATURES AND CONDITIONS NOT CALLED TO BE DEMOLISHED, REMOVED, OR OTHERWISE ALTERED BY THE CONSTRUCTION DOCUMENTS SHALL BE REPAIRED AND RETURNED TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
14. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, THE DETAILS, AND THE SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
15. THE CONTRACTOR SHALL EMPLOY AND OPERATE EQUIPMENT AND VEHICLES IN SUCH A MANNER THAT DOES NOT DAMAGE EXISTING SITE FEATURES TO REMAIN OR CONSTRUCTION SITE FEATURES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE TO THESE FEATURES.

GROUTING AND ABANDONMENT NOTES:

1. THE FOLLOWING EXISTING FEATURES SHALL BE ABANDONED IN PLACE FOLLOWING SELECTIVE DEMOLITION:
   A. PIEZOMETER-1
   B. PIEZOMETER-2
   C. PIEZOMETER-3
   D. PIEZOMETER-4
   E. PIEZOMETER-5
   F. PIEZOMETER-6
2. PIEZOMETERS REQUIRES TO BE ABANDONED IN PLACE SHALL BE CUT OFF AT THE EXCAVATED GROUND SURFACE.
3. THE REMAINING PIEZOMETER PIPE SHALL BE TREMIE GROUTED OR FILLED WITH CLEAN SAND, OR FILLED WITH BENTONITE CHIPS TO THE TOP OF THE REMAINING PIPE.
4. THE PIPE SHALL BE CAPPED WITH A PVC CAP OF THE APPROPRIATE SIZE PRIOR TO PLACING AND COMPACTING THE AREA WITH EMBANKMENT FILL.
5. THE CONTRACTOR SHALL USE MEANS AND METHODS THAT PREVENT GROUT FROM BEING DISCHARGED BEYOND THE LIMITS OF DISTURBANCE INCLUDING INTO WETLANDS AND WATERS OF THE UNITED STATES. THE CONTRACTOR IS RESPONSIBLE FOR SPILLS AND MUST IMMEDIATELY CLEAN UP AND COMPLETELY REMOVE SPILLED GROUT MATERIALS THAT TRAVEL BEYOND THE LIMITS OF DISTURBANCE AND/OR INTO WETLANDS AND/OR WATERS OF THE UNITED STATES.

FILTER DIAPHRAGM AND TOE DRAIN NOTES:

MATERIAL PROPERTIES

1. THE CONTRACTOR SHALL FURNISH MATERIALS WITH THE FOLLOWING PROPERTIES:
   A. FILTER SAND: MEET THE REQUIREMENTS OF ASTM C33 FINE AGGREGATE OR GDOT 10 NS SAND. SEE SPECIFICATION SECTION 31 23 00, TABLE 2 FOR GRADATION.
   B. DRAIN STONE: MEET THE REQUIREMENTS OF ASTM C33 COARSE AGGREGATE NO. 8 COARSE AGGREGATE OR GDOT 800 NO. 8 COARSE AGGREGATE. SEE SPECIFICATION SECTION 31 23 00, TABLE 4 FOR GRADATION.
   C. DRAIN PIPE: SHALL BE SOLID WALL (NOT CORRUGATED) PIPE MEETING STANDARD DIMENSION RATIO (SDR) 17, MEETING THE REQUIREMENTS FOR ASTM F714. SLOTS SHALL BE SYMMETRICALLY LOCATED IN TWO ROWS, ONE ON EACH SIDE OF THE CENTERLINE AND LOCATED WITHIN THE LOWER QUADRANTS OF THE PIPE. SLOTS SHALL BE NO WIDER THAN 1/8-INCH AND SPACED NOT TO EXCEED 11 TIMES THE SLOT WIDTH.

CONSTRUCTION AND QUALITY ASSURANCE

1. EXCAVATION SHALL BE MADE TO THE LINES, GRADES, AND DIMENSIONS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
2. THE OWNER AND THE ENGINEER RESERVE THE RIGHT, DURING THE PROGRESS OF THE WORK, TO VARY THE SLOPES, GRADES, OR DIMENSIONS OF THE EXCAVATIONS FROM THOSE SPECIFIED HEREIN.
3. DISPOSE OF EXCAVATED MATERIAL OR STOCKPILE IN AN APPROVED DISPOSAL AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVAL FOR THE DISPOSAL AREA.
4. THE USE OF EXCAVATED MACHINERY WILL NOT BE PERMITTED IN PLACES WHERE OPERATION MAY CAUSE DAMAGE TO ADJACENT PROPERTY, STRUCTURES, OR COMPLETED WORK. IN THESE CASES, HAND METHODS SHALL BE EMPLOYED.
5. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF THE FOUNDATION SUBGRADE PRIOR TO INITIAL FILTER SAND PLACEMENT.
6. CONSTRUCT THE PORTION FILTER DIAPHRAGM ABOVE THE SPILLWAY ENCASEMENT CONCURRENTLY WITH ADJACENT ZONES OF EARTH FILL.
7. PLACE FILTER SAND AND DRAIN STONE MATERIALS IN A WAY THAT AVOIDS SEGREGATION OF PARTICLE SIZES AND TO ENSURE CONTINUITY AND INTEGRITY OF ALL ZONES. NO FOREIGN MATERIAL SHALL BE ALLOWED TO INTERMIX WITH OR OTHERWISE CONTAMINATE FILTER SAND AND DRAIN STONE MATERIALS. THE CONTRACTOR SHALL COMPLETELY REMOVE ANY PLACED MATERIAL FOUND TO BE CONTAMINATED WITH FOREIGN MATERIALS PRIOR TO PLACING ADDITIONAL FILTER SAND AND DRAIN STONE MATERIAL.
8. FILTER SAND AND DRAIN STONE MATERIAL COMPACTION EQUIPMENT SHALL BE HAND OPERATED POWER TAMPERS/PLATE COMPACTORS HAVING A MINIMUM STATIC WEIGHT OF 300 POUNDS AND A MINIMUM DYNAMIC FORCE OF 1,000 POUNDS, OR OTHER COMPACTION EQUIPMENT ACCEPTABLE TO THE ENGINEER.
9. INSTALL FILTER SAND AND DRAIN STONE MATERIALS IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS PRIOR TO COMPACTION FOR FULL SIZE COMPACTION EQUIPMENT AND 5 INCHES IN THICKNESS PRIOR TO COMPACTION FOR SMALLER WALK-BEHIND COMPACTION EQUIPMENT.
10. DO NOT PLACE FROZEN MATERIAL.
11. WET FILTER SAND IMMEDIATELY BEFORE COMPACTION USING MOISTURE APPLICATION PROCEDURES APPROVED BY THE ENGINEER.
12. COMPACT FILTER SAND AND DRAIN STONE MATERIALS TO ACHIEVE A RELATIVE DENSITY OF AT LEAST 50 PERCENT AND NOT MORE THAN 70 PERCENT OR UNTIL VISUALLY COMPACTED (WHEN APPROVED BY THE ENGINEER).
13. CONSTRUCTION TRAFFIC SHALL NOT BE PERMITTED TO CROSS OVER FILTER SAND AND DRAIN STONE ZONES AT RANDOM. EQUIPMENT CROSS OVERS SHALL BE MAINTAINED BY THE CONTRACTOR AS NEEDED, AND THE NUMBER AND LOCATION OF SUCH CROSS OVERS SHALL BE ESTABLISHED AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING FILTER SAND AND DRAIN STONE PLACEMENT. EACH CROSS OVER SHALL BE CLEARED OF CONTAMINATING MATERIAL AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PLACING ADDITIONAL MATERIAL.
14. ANY DAMAGE TO THE SUBGRADE OCCURRING DURING PLACEMENT OF MATERIAL SHALL BE REPAIRED BEFORE PLACING ADDITIONAL MATERIAL AT THE CONTRACTOR'S SOLE EXPENSE.
15. PROPERLY STORE ALL FILTER SAND AND DRAIN STONE MATERIALS PER THE SPECIFICATION SECTION 31 23 00 AND AS DIRECTED BY THE ENGINEER TO PROTECT FROM THE ENVIRONMENT AND WEATHER CONDITIONS.
16. PERFORM IN-PLACE DENSITY TESTS ON FILTER SAND AND DRAIN STONE MATERIALS (ASTM D2922, ASTM D3017) AS DIRECTED BY THE ENGINEER. SEE SPECIFICATION SECTION 31 23 00, TABLE 5 FOR TESTING FREQUENCY.
17. THE CONTRACTOR SHALL OBTAIN AT LEAST TWO SAMPLES EACH FROM THE FILTER SAND AND DRAIN STONE AND PERFORM AT LEAST TWO SIEVE ANALYSES WITH #200 WASH (ASTM D6913), ATTERBERG LIMIT (ASTM D4318) AND LABORATORY MOISTURE-DENSITY (INDEX DENSITY) (ASTM D4253, D4254) TESTS TO VERIFY THAT DRAIN MATERIALS MEET THE REQUIREMENTS OF ASTM C33 OR GDOT 800/801.

TREE REMOVAL NOTES:

1. TREES TO BE PROTECTED BASED ON TREE TABLE ON THIS SHEET AND AS SHOWN ON SHEET C102.
2. TREES WITHIN THE LIMITS OF DISTURBANCE THAT ARE NOT DESIGNATED FOR REMOVAL BUT ARE IN POOR CONDITION OR ARE NOT LIKELY TO SURVIVE CONSTRUCTION, SHALL BE REMOVED ALONG WITH THE STUMP BY CONTRACTOR PRIOR TO DEMOBILIZATION.
3. CONTRACTOR TO PROVIDE UP TO 6 TREES TO BE PLANTED AT LOCATIONS SELECTED BY THE OWNER. NO TREES WILL BE PLANTED WITHIN THE LIMITS OF THE DAM. THE TREES SHALL HAVE A MINIMUM BREAST HEIGHT DIAMETER OF 3 INCHES AT THE TIME OF PLANTING AND SHALL BE ONE OF THE FOLLOWING SPECIES, AS SELECTED BY THE OWNER:
   TULIP POPLAR (LIRIODENDROM TULIPIFERA)
   WATER OAK (QUERCUS NIGRA)
   AMERICA BEECH (FAGUS GRANDIFOLIA)
   CAROLINA CHERRY LAUREL (PRUNUS CAROLINIANA)
   BLACK WILLOW (SALIX NIGRA)
   RED MAPLE (ACER RUBRUM)
   WHITE OAK (QUERCUS ALBA)
   SWEETGUM (LIQUIDAMBAR STYRACIFLUA)

LAKE ERIN DAM TREE TABLE

TREE NUMBER	TREE SPECIES	DIAMETER INCHES	ACTION
T1	OAK	24	PROTECT THROUGHOUT CONSTRUCTION
T2	OAK	24	PROTECT THROUGHOUT CONSTRUCTION
T3	HARDWOOD	18	REMOVE TREE AND STUMP
T4	OAK	15	PROTECT THROUGHOUT CONSTRUCTION
T5	OAK	20	REMOVE TREE AND STUMP
T6	OAK	24	PROTECT THROUGHOUT CONSTRUCTION
T7	OAK	18	PROTECT THROUGHOUT CONSTRUCTION
T8	OAK	20	CUT FLUSH AND GRIND STUMP
T9	SWEETGUM	13	CUT FLUSH AND GRIND STUMP
T10	OAK	15	PROTECT THROUGHOUT CONSTRUCTION
T11	OAK	20	REMOVE TREE AND STUMP
T12	OAK	18	PROTECT THROUGHOUT CONSTRUCTION
T13	OAK	20	REMOVE TREE AND STUMP
T14	OAK	20	CUT FLUSH AND GRIND STUMP
T15	OAK	14	REMOVE TREE AND STUMP
T16	OAK	13	REMOVE TREE AND STUMP
T17	OAK	18	REMOVE TREE AND STUMP
T18	OAK	26	REMOVE TREE AND STUMP
T19	OAK	14	REMOVE TREE AND STUMP
T20	OAK	14	REMOVE TREE AND STUMP
T21	OAK	19	PROTECT THROUGHOUT CONSTRUCTION
T22	OAK	18	REMOVE TREE AND STUMP
T23	OAK	20	PROTECT THROUGHOUT CONSTRUCTION
T24	OAK	21	REMOVE TREE AND STUMP
T25	OAK	12	PROTECT THROUGHOUT CONSTRUCTION
T26	OAK	18	REMOVE TREE AND STUMP
T27	OAK	19	REMOVE TREE AND STUMP
T28	OAK	26	REMOVE TREE AND STUMP
T29	OAK	28	REMOVE TREE AND STUMP
T30	OAK	28	REMOVE TREE AND STUMP
T31	OAK	13	REMOVE TREE AND STUMP
T32	N/A	18	REMOVE TREE AND STUMP
T33	OAK	22	REMOVE TREE AND STUMP
T34	OAK	20	REMOVE TREE AND STUMP
T35	OAK	18	CUT FLUSH AND GRIND STUMP
T36	OAK	12	REMOVE TREE AND STUMP
T37	OAK	15	PROTECT THROUGHOUT CONSTRUCTION
T38	OAK	15	REMOVE TREE AND STUMP
T39	OAK	15	REMOVE TREE AND STUMP
T40	OAK	16	REMOVE TREE AND STUMP
T41	OAK	15	PROTECT THROUGHOUT CONSTRUCTION
T42	PINE	14	REMOVE TREE AND STUMP
T43	OAK	18	REMOVE TREE AND STUMP
T44	OAK	22	PROTECT THROUGHOUT CONSTRUCTION
T45	PINE	23	PROTECT THROUGHOUT CONSTRUCTION
T46	OAK	18	PROTECT THROUGHOUT CONSTRUCTION
T47	OAK	18	PROTECT THROUGHOUT CONSTRUCTION
T48	OAK	15	PROTECT THROUGHOUT CONSTRUCTION
T49	PINE	18	PROTECT THROUGHOUT CONSTRUCTION
T50	OAL	19	PROTECT THROUGHOUT CONSTRUCTION
T51	DEAD	24	PROTECT THROUGHOUT CONSTRUCTION
T52	OAK	23	PROTECT THROUGHOUT CONSTRUCTION
T53	POPLAR	16	PROTECT THROUGHOUT CONSTRUCTION
T54	PINE	21	PROTECT THROUGHOUT CONSTRUCTION
T55	OAK	12	PROTECT THROUGHOUT CONSTRUCTION
T56	OAK	24	PROTECT THROUGHOUT CONSTRUCTION
T57	OAK	21	PROTECT THROUGHOUT CONSTRUCTION
T58	OAK	16	PROTECT THROUGHOUT CONSTRUCTION
T59	LOBLOLLY PINE	29	PROTECT THROUGHOUT CONSTRUCTION
T60	SWEETGUM	11	PROTECT THROUGHOUT CONSTRUCTION
T61	LOBLOLLY PINE	21	PROTECT THROUGHOUT CONSTRUCTION
T62	LOBLOLLY PINE	16	PROTECT THROUGHOUT CONSTRUCTION
T63	TULIP POPLAR	30	PROTECT THROUGHOUT CONSTRUCTION
T64	TULIP POPLAR	13	PROTECT THROUGHOUT CONSTRUCTION
T65	LOBLOLLY PINE	24	PROTECT THROUGHOUT CONSTRUCTION
T66	LOBLOLLY PINE	25	PROTECT THROUGHOUT CONSTRUCTION
T67	TULIP POPLAR	16	PROTECT THROUGHOUT CONSTRUCTION
T68	RIVER BIRCH	17	PROTECT THROUGHOUT CONSTRUCTION
T69	RIVER BIRCH	10	PROTECT THROUGHOUT CONSTRUCTION
T70	RIVER BIRCH	7	PROTECT THROUGHOUT CONSTRUCTION
T71	TULIP POPLAR	26	PROTECT THROUGHOUT CONSTRUCTION
T72	TULIP POPLAR	9	PROTECT THROUGHOUT CONSTRUCTION
T73	LOBLOLLY PINE	24	PROTECT THROUGHOUT CONSTRUCTION
T74	LOBLOLLY PINE	21	PROTECT THROUGHOUT CONSTRUCTION
T75	RED MAPLE	15	PROTECT THROUGHOUT CONSTRUCTION
T76	LOBLOLLY PINE	21	PROTECT THROUGHOUT CONSTRUCTION
T77	TULIP POPLAR	5	PROTECT THROUGHOUT CONSTRUCTION
T78	RED MAPLE	16	PROTECT THROUGHOUT CONSTRUCTION
T79	TULIP POPLAR	20	PROTECT THROUGHOUT CONSTRUCTION
T80	TULIP POPLAR	11	PROTECT THROUGHOUT CONSTRUCTION

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE ____ BY

ISSUED FOR CONSTRUCTION ____ DATE ____ BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

GENERAL NOTES

SHEET NUMBER

G002

SHEET 02 OF 47

LAST SAVED BY: WEISA (2024-09-13) LAST PLOTTED: 2024-09-18
FILENAME: I:\DCS\PROJECTS\WTR\60727041_LAKEERIN\DAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PGN-G002-LAKEERIN.DWG

LEGEND

1 / C201 — DETAIL LOCATION. "1" REFERS TO THE DETAIL DESIGNATION. "C201" REFERS TO THE DRAWING NUMBER WHERE THE DETAIL IS SHOWN OR WHERE THE DETAIL IS INDICATED.

A / C203 — CROSS SECTION LOCATION. "A" REFERS TO THE CROSS SECTION DESIGNATION. "C203" REFERS TO THE DRAWING NUMBER WHERE THE SECTION IS SHOWN OR WHERE THE SECTION WAS CUT.

HATCH LEGEND

- EXISTING CONCRETE
- PROPOSED CONCRETE
- PROPOSED C33 SAND
- PROPOSED RIPRAP
- PROPOSED BEDDING STONE
- PROPOSED DEMOLITION AREA
- EXISTING PARK TRAIL
- PROPOSED PARK TRAIL
- CONTRACTOR STAGING AND STOCKPILE AREAS
- WETLANDS
- EARTH
- EXISTING IMPERVIOUS AREA
- PROPOSED TURFGRASS SEED AREAS
- PROPOSED WOOD CHIPS AREAS
- STAGE 1 BEDDING MATERIAL
- STAGE 2 BEDDING MATERIAL
- STAGE 3 BEDDING MATERIAL

LINE TYPE LEGEND

- EXISTING MINOR CONTOUR (1 FT INTERVALS)
- EXISTING MAJOR CONTOUR (10 FT INTERVALS) — 960
- EXISTING PROPERTY LINE
- EXISTING NORMAL POOL LINE
- EXISTING SANITARY LINE — SAN
- EXISTING TREE LINE
- EXISTING CONDUIT (OFFSET WIDTH = DIAMETER)
- TOPOGRAPHIC SURVEY LIMIT
- ESTIMATED LIMITS OF EXCAVATION
- ESTIMATED TEMPORARY EASEMENT
- ESTIMATED PERMANENT EASEMENT
- PROPOSED MINOR CONTOURS (1 FT INTERVALS)
- PROPOSED MAJOR CONTOURS (5 FT INTERVALS) — 960
- PROPOSED CONDUIT (OFFSET WIDTH = DIAMETER)
- PROPOSED TREE LINE
- SOIL BOUNDARY
- LIMIT OF DISTURBANCE — LOD — LOD
- LIMIT OF ACCESS — LOA
- TEMPORARY COFFERDAM
- TEMPORARY BYPASS/DIVERSION CONDUIT
- TEMPORARY NON-SENSITIVE SILT FENCE — NSF — NSF
- TEMPORARY SENSITIVE SILT FENCE — SSF — SSF
- TEMPORARY SAND BAGS
- TEMPORARY BARRIER FENCE — X — X
- TEMPORARY CHAIN LINK SECURITY FENCE
- TREE PROJECTION FENCE — TPF — TPF
- WETLAND BOUNDARY (AS SURVEYED IN THE FIELD) — WL — WL
- WATERS OF THE US / STATE WATER BOUNDARY AS DETERMINED BY THE POINT OF WRESTED VEGETATION (SURVEYED IN THE FIELD) — WUS — WUS
- 25' STATE WATER BUFFER — WB — WB
- 25' STREAM BUFFER — SB — SB

SYMBOLOGY

'	FEET
"	INCHES
#	NUMBER
%	PERCENT
&	AND
@	AT
o	DEGREES
Ø	DIAMETER
W/	WITH
X	BY
℄	CENTERLINE
℔	BOUNDARY LINE
	EXISTING BORING

STRUCTURAL SHAPES

C	CHANNEL
L	ANGLE
PL	PLATE
W	W SHAPE

ABBREVIATIONS AND ACRONYMS - STANDARD

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
ADJ	ADJUSTED
AL	ALUMINUM
ALUM	ALUMINUM
APPROX	APPROXIMATELY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
BM	BENCHMARK
BODR	BASIN OF DESIGN REPORT
BOTT	BOTTOM
CAP	CORRUGATED ALUMINUM PIPE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECONDS
CJ	CONSTRUCTION JOINT
CLR	CLEARANCE
CL RD	CENTERLINE OF ROAD
CMP	CORRUGATED METAL PIPE
D	DIAMETER
DHW	DESIGN HEAD WATER
DIA	DIAMETER
DIM	DIMENSION
DR CL	DIRT ROAD CENTERLINE
DS	DOWNSTREAM
DW	DESIGN WATER
DWG	DRAWING
E	EXPANSION END, EAST OR EASTING
ECMP	ELLIPTICAL CORRUGATED METAL PIPE
EDR	EDGE OF DIRT ROAD
EF	EACH FACE
ELEV OR EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
EQ.	EQUAL
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESE	EAST SOUTH EAST
ETC	ET CETERA
EXIST.	EXISTING
EXT	EXTERIOR
F	FIXED END
FD	FILTER DIAPHRAGM
FF	FINISHED FLOOR
FLAG	WETLAND MAKER FLAG SET BY AECOM XX/XX/20XX
FPS	FEET PER SECOND
FT	FEET OR FOOT
GALV.	GALVANIZED
GB	GRADE BREAK
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
GFI	GROUND FAULT INTERRUPTER
GND	NATURAL GROUND
GPS	GLOBAL POSITIONING SYSTEM
GRD	GROUND
GW	GROUND WATER
H	HEIGHT
HDPE	HIGH DENSITY POLYETHYLENE
HW	HEAD WATER
HORZ	HORIZONTAL
ID.	IDENTIFICATION
IE	INVERT ELEVATION
IN.	INCHES
INC.	INCORPORATED
INV	INVERT
KIP	KILO-POUNDS OF FORCE
KSI	KILO-POUNDS OF FORCE PER SQUARE INCH
LB	POUND
LBS	POUNDS
LFRD	LOAD AND RESISTANCE FACTOR
LOA	LIMITS OF ACCESS
LOD	LIMITS OF DISTURBANCE
LWC	LOW WATER CROSSING
MAX	MAXIMUM
MEG	MATCH EXISTING GRADE
MFGR	MANUFACTURER
MILS	MILLI-INCHES
MIN	MINIMUM
MPH	MILES PER HOUR
N	NORTH OR NORTHING
NAD	NORTH AMERICAN DATUM
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NE	NORTHEAST
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NGVD29	NATIONAL GEODETIC VERTIVCAL DATUM OF 1929
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P.E.	PROFESSIONAL ENGINEER
PL	POLYMER CONCRETE
POS	POSITION
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PWR	PARTIALLY WEATHERED ROCK
Q	FLOW RATE
R	RADIUS
RBC	REBAR AND CAP
RCP	REINFORCED CONCRETE PIPE
RD.	ROAD
REF	REFERENCE
REIF	REINFORCEMENT
REQD	REQUIRED
RFB	REQUEST FOR BID
RTU	REMOTE TELEMETRY UNIT
R/W	RIGHT OF WAY
SJWMD	SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT
SP	SUPERPAVE
SPA.	SPACING
SQ	SQUARE
S.R.	STATE ROAD
SS	STAINLESS STEEL
SPECS	SPECIFICATIONS
SST	STAINLESS STEEL TYPE 304
STD.	STANDARD
SW	SOUTHWEST
T	THICKNESS
TJB	TELEMETRY JUNCTION BOX
TRM	TURF REINFORCEMENT MAT
TW	TAILWATER
TWEL	TAILWATER ELEVATION
TYP	TYPICAL
UHMWPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
UL	UNDERWRITERS LABORATORIES INC.
UPS	UNINTERRUPTED POWER SUPPLY
US	UPSTREAM
VERT	VERTICAL
W	WIDTH

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING — DATE — BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

ABBREVIATIONS AND LEGEND

SHEET NUMBER

G003

SHEET 03 OF 47

ANSI D 22" x 34"

LOD POINT TABLE		
POINT #	NORTHING	EASTING
1	1406766.17	2277744.01
2	1406750.64	2277768.78
3	1406747.14	2277774.36
4	1406722.52	2277763.46
5	1406677.63	2277731.48
6	1406662.62	2277704.01
7	1406783.44	2277565.53
8	1406754.85	2277537.79
9	1406769.08	2277521.48
10	1406736.72	2277483.64
11	1406682.14	2277499.45
12	1406571.62	2277243.28
13	1406642.66	2277213.54
14	1406637.00	2277168.86
15	1406686.51	2277117.06
16	1406759.46	2277072.97
17	1406915.00	2277127.70
18	1406927.71	2277163.38
19	1406910.96	2277171.98

LOD POINT TABLE		
POINT #	NORTHING	EASTING
20	1406885.06	2277255.28
21	1406896.00	2277272.26
22	1406896.39	2277379.77
23	1406925.63	2277520.33
24	1406903.41	2277555.33
25	1406895.49	2277563.80
26	1406864.21	2277593.66
27	1406857.30	2277607.14
28	1406792.80	2277685.35
29	1406780.83	2277696.40
30	1406766.17	2277695.12
31	1406748.21	2277694.83
32	1406737.32	2277701.89
33	1406731.14	2277712.50
34	1406727.90	2277726.34
35	1406730.55	2277735.17
36	1406734.38	2277736.94
37	1406746.74	2277741.94

LOA POINT TABLE		
POINT #	NORTHING	EASTING
38	1406766.17	2277744.01
39	1406837.54	2277759.95
40	1406909.30	2277762.73
41	1406909.76	2277716.86
42	1406926.16	2277674.12
43	1406954.38	2277658.81
44	1406983.65	2277616.77
45	1407000.70	2277625.15
46	1407028.45	2277664.60
47	1407020.38	2277677.10
48	1406999.57	2277705.15
49	1406988.79	2277744.00
50	1406981.06	2277771.17
51	1406985.75	2277782.68
52	1407001.76	2277795.59
53	1407026.59	2277803.18
54	1407045.47	2277822.34
55	1407050.49	2277850.27
56	1407037.27	2277878.99
57	1407015.40	2277892.74

LOA POINT TABLE		
POINT #	NORTHING	EASTING
58	1406990.21	2277898.80
59	1406964.32	2277893.21
60	1406944.35	2277876.49
61	1406933.96	2277855.06
62	1406908.62	2277787.41
63	1406829.93	2277779.76
64	1406750.64	2277768.78

DP-2 F.D. STRIP DRAIN			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L27		59.71	N28° 57' 20.41"W
L28		14.00	N58° 57' 20.41"W
L29		36.29	N28° 57' 20.41"W

UPSTREAM CREST GRADE BREAK			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
C7	104.04	103.87	N32° 26' 39.10"E
L35		210.74	N61° 02' 39.59"E
C8	191.51	45.20	N67° 48' 16.42"E
L36		14.03	N76° 47' 31.84"E

OB2 POINT TABLE		
POINT #	NORTHING	EASTING
2000	1406751.64	2277194.72
2001	1406748.04	2277188.23
2002	1406735.79	2277145.12
2003	1406697.63	2277166.99
2004	1406739.09	2277205.23
2005	1406759.69	2277242.24
2006	1406773.73	2277234.65
2007	1406802.33	2277286.34
2008	1406788.36	2277294.04

LATERAL CHANNEL CENTERLINE			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L30		44.14	N77° 28' 08.80"E
C5	50.00	19.37	N88° 34' 03.80"E
L31		5.54	S80° 20' 01.20"E
L32		1.40	S80° 20' 01.20"E
C6	50.00	11.64	S87° 00' 05.16"E
L33		11.25	N86° 19' 50.88"E
L34		6.66	N84° 36' 15.90"E

GEORGIA COORDINATE SYSTEM
NAD83(2001)

DP-1 F.D. PRIMARY DRAIN			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L19		12.50	S61° 02' 39.59"W
L20		9.40	S61° 02' 39.59"W
L21		3.88	S83° 32' 39.59"W
L22		3.89	N73° 57' 20.41"W
L23		3.89	N51° 27' 20.41"W
L24		36.80	N28° 59' 20.97"W
L25		15.73	N6° 27' 20.41"W
L26		33.91	N28° 57' 20.41"W

DP-3 EAST TOE DRAIN			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L13		47.85	S49° 47' 39.59"W
L14		46.00	S61° 02' 39.59"W
L15		26.15	N28° 57' 20.41"W

DP-4 WEST TOE DRAIN			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L16		46.58	N16° 05' 14.92"E
L17		2.00	N6° 27' 20.41"W
L18		11.42	N28° 57' 20.41"W

OB1 POINT TABLE		
POINT #	NORTHING	EASTING
1000	1406759.69	2277242.24
1001	1406773.73	2277234.65
1002	1406753.51	2277198.17
1003	1406751.64	2277194.72
1004	1406739.09	2277205.23
1005	1406741.49	2277209.35

RR-1 POINT TABLE		
POINT #	NORTHING	EASTING
100	1406872.85	2277179.17
101	1406844.11	2277193.34
102	1406831.34	2277169.67
103	1406833.78	2277167.47
104	1406823.11	2277147.29
105	1406831.77	2277127.63
106	1406869.64	2277118.83
107	1406877.54	2277150.46
108	1406891.69	2277176.07

RR-2 POINT TABLE		
POINT #	NORTHING	EASTING
200	1406872.85	2277179.17
201	1406879.70	2277192.49
202	1406883.08	2277216.77
203	1406891.24	2277191.55
204	1406891.63	2277175.81

RR-3 POINT TABLE		
POINT #	NORTHING	EASTING
300	1406801.67	2277398.99
301	1406776.10	2277395.30
302	1406648.97	2277208.74
303	1406657.77	2277191.09

PROPOSED SERVICE SPILLWAY CENTERLINE
STATION=13+50.00
NORTHING=1406938.84
EASTING=2277138.16

PROPOSED PIEZOMETER ROW
STATION=32+50.00
NORTHING=1406902.74
EASTING=2277184.09

LATERAL CHANNEL CENTERLINE
STATION=101+00.00
NORTHING=1406884.25
EASTING=2277239.02

DP-3 EAST TOE DRAIN
STATION=61+20.00
NORTHING=1406854.66
EASTING=2277187.49

DP-2 F.D. STRIP DRAIN
STATION=51+10.00
NORTHING=1406841.26
EASTING=2277165.38

DP-4 WEST TOE DRAIN
STATION=70+60.00
NORTHING=1406826.90
EASTING=2277143.92

DP-3 EAST TOE DRAIN
STATION=60+00.00
NORTHING=1406884.93
EASTING=2277276.95

DP-1 F.D. PRIMARY DRAIN
STATION=40+00.00
NORTHING=1406781.27
EASTING=2277252.86

PROPOSED EMBANKMENT CENTERLINE
STATION=24+50.00
NORTHING=1406880.16
EASTING=2277519.68

DP-2 F.D. STRIP DRAIN
STATION=50+00.00
NORTHING=1406750.04
EASTING=2277223.86

DP-4 WEST TOE DRAIN
STATION=70+00.00
NORTHING=1406770.16
EASTING=2277136.77

PROPOSED PIEZOMETER ROW
STATION=30+00.00
NORTHING=1406689.55
EASTING=2277314.68

PROPOSED SERVICE SPILLWAY CENTERLINE
STATION=10+00.00
NORTHING=1406628.46
EASTING=2277297.41

PROPOSED EMBANKMENT CENTERLINE
STATION=20+00.00
NORTHING=1406672.57
EASTING=2277137.07

UPSTREAM CREST GRADE BREAK
STATION=200+00.00
NORTHING=1406657.43
EASTING=2277155.91

D-101
1/2"RBC
N:1406838.88
E:2277355.68
Z:969.32

D-107
1/2"RBC
N:1406909.26
E:2277514.16
Z:974.65

D-100
1/2"RBC
N:1406736.38
E:2277852.52
Z:973.52

PROPOSED SERVICE SPILLWAY CENTERLINE			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L1		289.55	N28° 57' 20.41"W
C1	60.00	18.92	N19° 55' 24.10"W
L2		14.40	N10° 53' 27.82"W
C2	50.00	10.23	N16° 44' 58.58"W
L3		16.92	N24° 25' 43.09"W

PROPOSED EMBANKMENT CENTERLINE			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L4		35.64	N29° 15' 32.08"E
C3	100.00	55.48	N45° 09' 06.11"E
L5		224.38	N61° 02' 39.59"E
C4	200.00	80.27	N72° 32' 33.22"E
L6		54.23	N84° 22' 06.09"E

PROPOSED PIEZOMETER ROW			
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION
L7		250.00	N31° 29' 25.19"W

0 30' 30'
SCALE:1"=30'

LAST SAVED BY: WEI5A (2024-09-12) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERINDAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PGE-C101-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

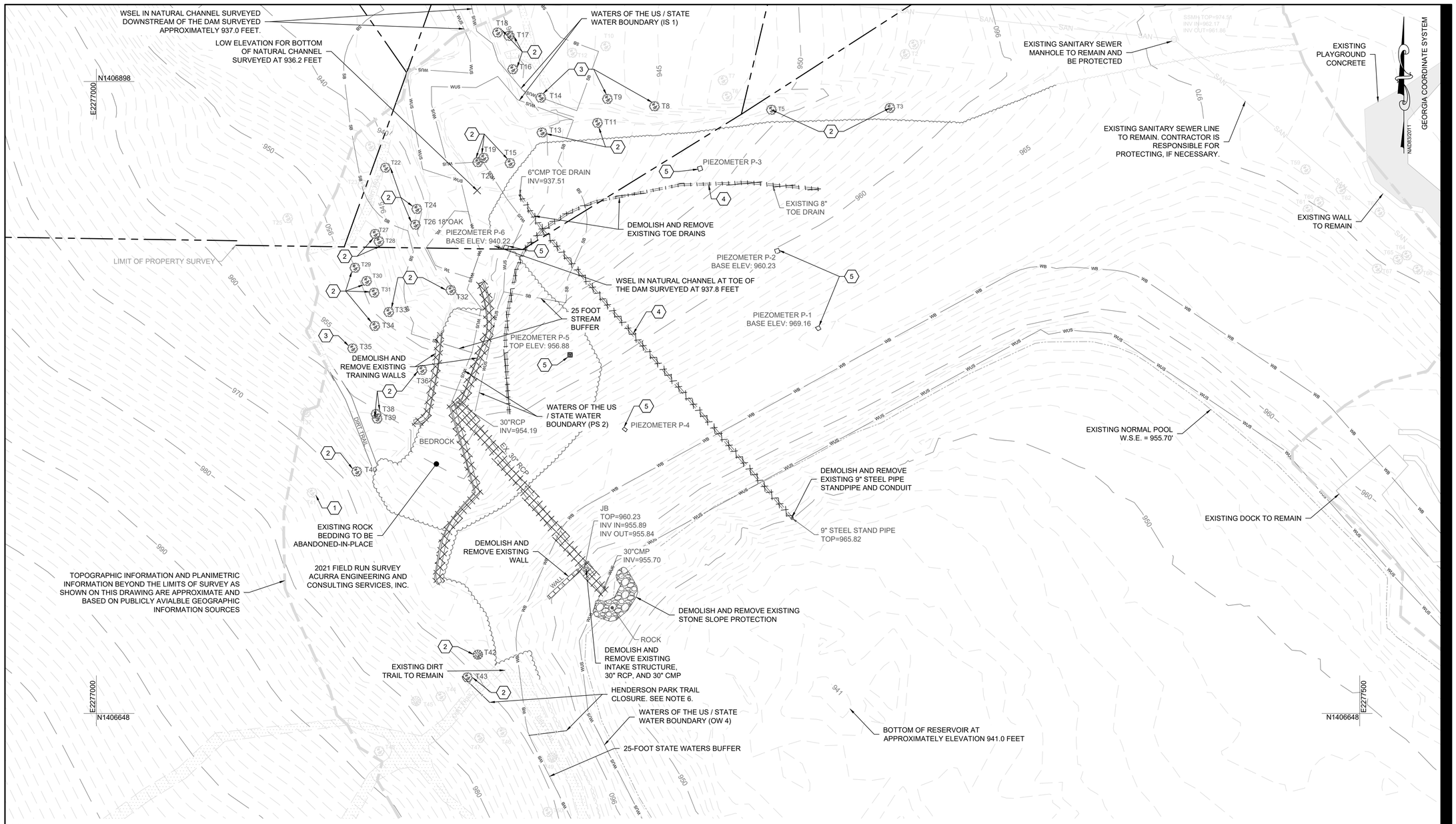
DRAWING TITLE

GEOMETRY PLAN

SHEET NUMBER

C101

SHEET 04 OF 47



KEY:

(#) SEE CORRESPONDING EXISTING CONDITIONS AND DEMOLITION NOTE FOR EXISTING FEATURE IDENTIFIED ON THE PLAN.

EXISTING CONDITIONS AND DEMOLITION NOTES:

1. EXISTING TREE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
2. REMOVE EXISTING TREE AND STUMP. SEE TREE TABLE SHEET G002 FOR DETAILS.
3. CUT EXISTING TREE FLUSH AND GRIND THE STUMP TO A DEPTH AS SPECIFIED BY THE ENGINEER. SEE TREE TABLE SHEET G002 FOR DETAILS.
4. LOCATION OF TOE DRAIN AND/OR CONDUIT SHOWN ON THE PLAN IS APPROXIMATED. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO REMOVAL.
5. DEMOLISH EXISTING PIEZOMETER WITHIN LIMITS OF WORK AND ABANDON ANY PORTION OF THE PIZEZOMETER BELOW THE LOWEST EXCAVATION ELEVATION. SEE GROUTING AND ABANDONMENT NOTES ON SHEET NO. G002.
6. PRIOR TO CONSTRUCTION, CONTRACTOR TO PROVIDE CHAIN LINK FENCE AND TRAIL CLOSURE SIGNS AT THE LIMITS OF THE CONSTRUCTION SITE FOR HENDERSON PARK TRAIL.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EXISTING CONDITIONS AND DEMOLITION PLAN

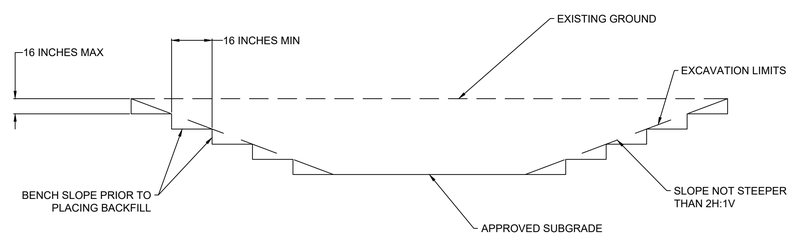
SHEET NUMBER

C102

SHEET 05 OF 47

EXCVATION NOTES:

1. THIS SHEET DEPICTS THE ESTIMATED COMPOSITE LIMITS OF EXCAVATION NECESSARY TO INSTALL THE PRINCIPAL SPILLWAY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ULTIMATE LIMITS AND GEOMETRY OF THE EXCAVATION NECESSARY TO COMPLETE THE WORK IN COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. THE LIMITS OF EXCAVATION SHOWN HEREON ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL FINAL LIMITS OF EXCAVATION BASED ON THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.
3. EXCAVATIONS AND THE WORK TO CREATE THEM SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE.
4. NO EXCAVATION SIDE SLOPES SHALL BE SLOPED OR BENCHED STEEPER THAN A RATE OF TWO (2)-HORIZONTAL-TO-ONE(1)-VERTICAL (2H:1V) UNLESS OTHERWISE SPECIFIED BY THE CONSTRUCTION DOCUMENTS OR UNLESS THE EXCAVATION IS SHALLOWER THAN 16 INCHES DEEP MEASURED FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE EXCAVATION.
5. ALL SIDE SLOPES SHALL BE BENCHED AT A SLOPE NOT STEEPER THAN A RATE OF 2H:1V PRIOR TO PLACING BACKFILL MATERIALS. THE MINIMUM BENCH WIDTH IS 16 INCHES AND THE MAXIMUM BENCH HEIGHT IS 16 INCHES. SEE DETAIL 1 THIS SHEET.
6. FINAL EXCAVATION DIMENSIONS INCLUDING SUBGRADE CONDITION SHALL BE REVIEWED AND APPROVED BY THE ENGINEER BEFORE INSTALLING FEATURES OR PLACING BACKFILL WITHIN THE EXCAVATION.
7. BACKFILL OF EXCAVATIONS SHALL BE PERFORMED UNDER SUPERVISION OF THE ENGINEER AND AS SPECIFIED BY THE CONTRACT DOCUMENTS.



1 C103 **BENCHING DETAIL**

Scale 1" = 5'

0 20' 40'

SCALE:1"=20'

ANSI D 22" x 34"

LAST SAVED BY: WEISA(2024-09-04) LAST PLOTTED: 2024-09-18
FILENAME: L:\DC\SP\PROJECTS\WTR\60727041_LAKEERIN\DA\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PEX-C103-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

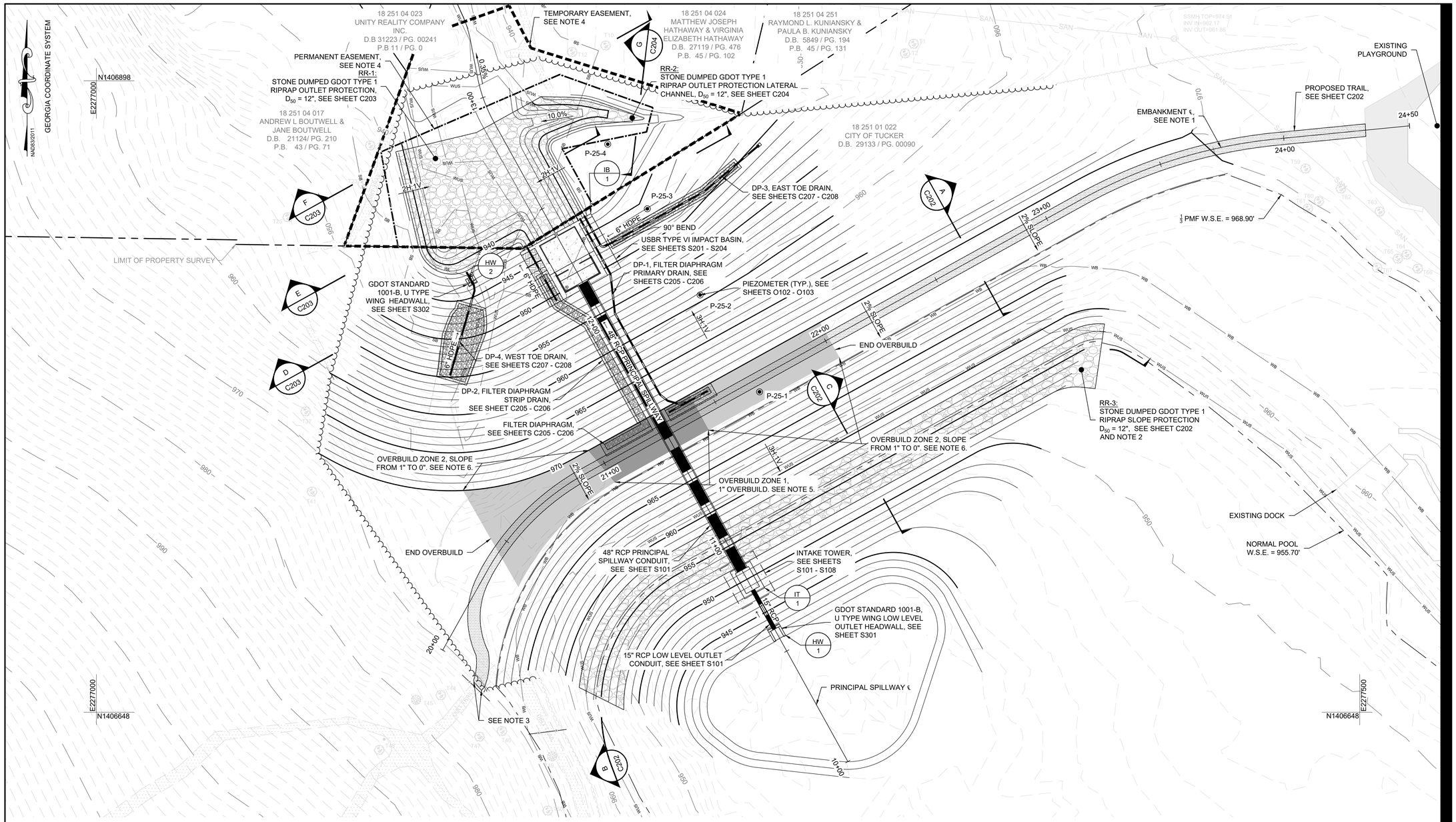
DRAWING TITLE

EXCAVATION PLAN

SHEET NUMBER

C103

SHEET 06 OF 47



SITE PLAN NOTES AND CROSS-REFERENCES:

1. RAISE AND LEVEL EMBANKMENT CREST TO ELEVATION 970.0 FEET, SEE SHEET C201 FOR PROPOSED EMBANKMENT CENTERLINE PROFILE.
2. RIPRAP FOR UPSTREAM SLOPE PROTECTION TO BE SET FROM ELEVATION 952.0 FEET TO 958.0 FEET, SEE SHEET C202 FOR DETAILS.
3. WHERE THE TRAIL ALIGNMENT DEVIATES FROM THE CENTER LINE OF THE EMBANKMENT, THE CONTRACTOR IS TO FIELD FIT THE PROPOSED TRAIL CONNECTION TO THE EXISTING TRAILS.
4. PERMANENT AND TEMPORARY EASEMENTS AT THE HATHAWAY PROPERTY ARE TO BE PROCURED BY THE CITY OF TUCKER PRIOR TO THE START OF CONSTRUCTION.
5. OVERBUILD ZONE 1. PROVIDE 1 INCH OF OVERBUILD ALONG THE CREST FOR THE EXTENT OF THE MAXIMUM EXCAVATION CUT. SEE SHEET C101 FOR LIMIT OF OVERBUILD ZONE 1.
6. OVERBUILD ZONE 2. PROVIDE OVERBUILD SLOPING FROM 1 INCH AT THE INTERFACE OF OVERBUILD ZONE 1 AND 2 TO 0 INCHES AT THE EXTENT OF OVERBUILD ZONE 2 WHERE THE OVERBUILD ENDS. SEE SHEET C101 FOR LIMITS OF OVERBUILD ZONE 2.

HATCH LEGEND

OVERBUILD ZONE 1

OVERBUILD ZONE 2

0 20' 40'
SCALE:1"=20'

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING — DATE BY

ISSUED FOR CONSTRUCTION — DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

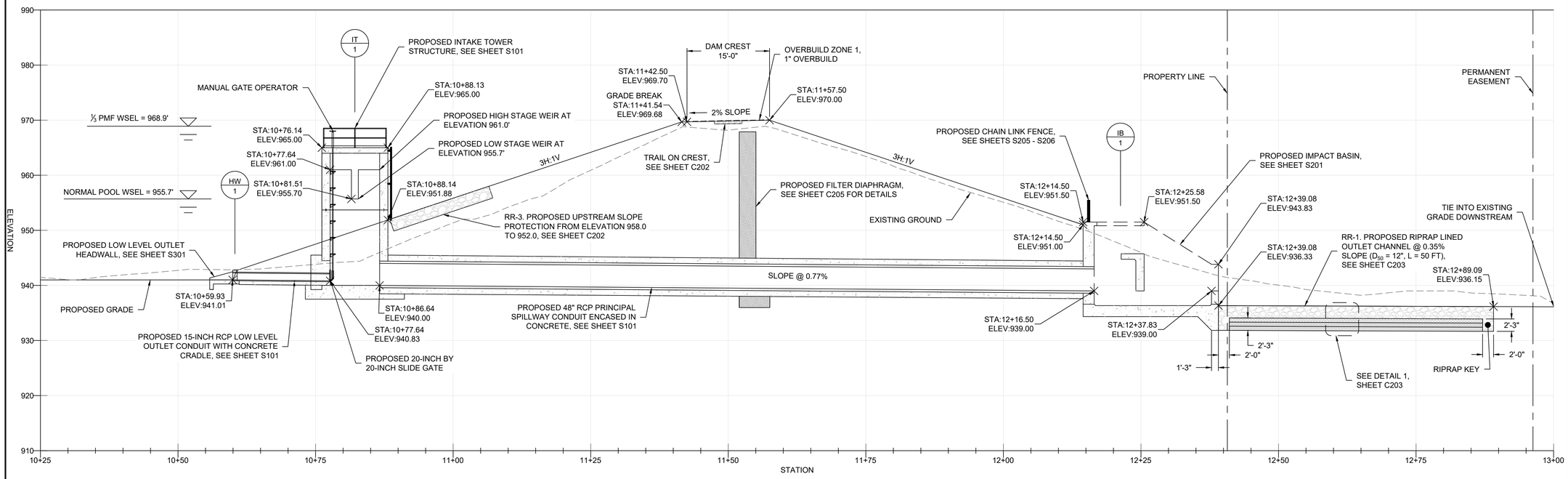
DRAWING TITLE

SITE AND GRADING PLAN

SHEET NUMBER

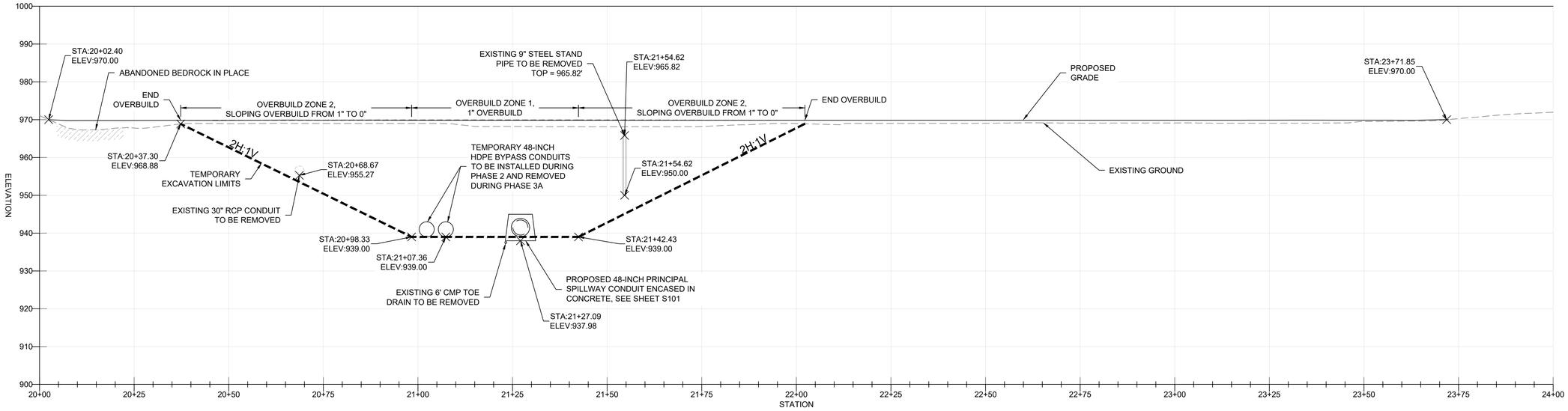
C104

SHEET 07 OF 47



1 C201 PRINCIPAL SPILLWAY CENTERLINE PROFILE

Scale 1"=10'



2 C201 EMBANKMENT CENTERLINE PROFILE

Scale 1"=15'

0 15' 30'
SCALE:1"=15'

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

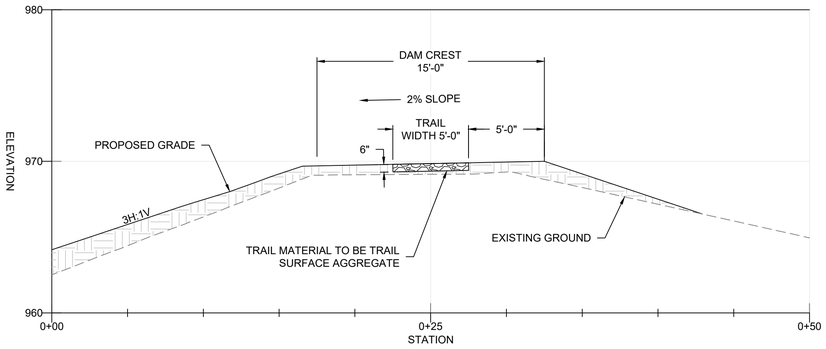
DRAWING TITLE

PRINCIPAL SPILLWAY AND EMBANKMENT PROFILE

SHEET NUMBER

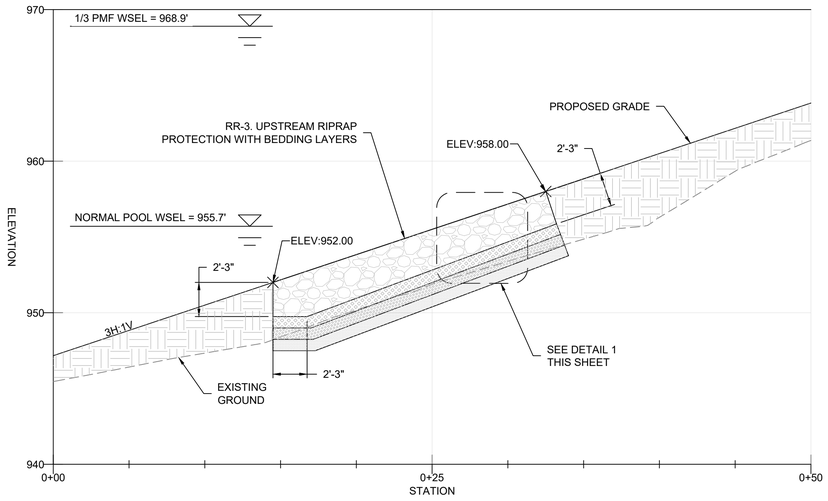
C201

SHEET 08 OF 47



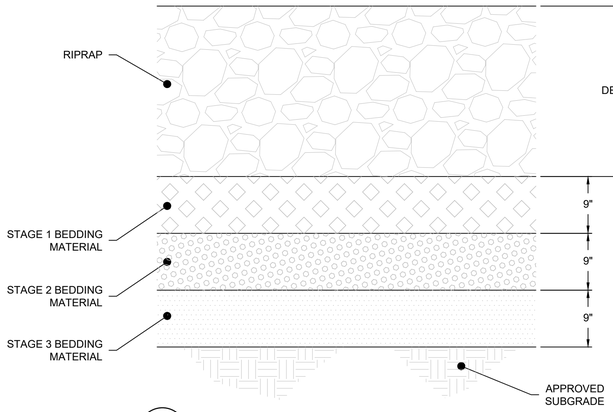
A C104 **TYPICAL TRAIL ON CREST SECTION**

Scale 1"=5'



C C104 **TYPICAL UPSTREAM RIPRAP SECTION**

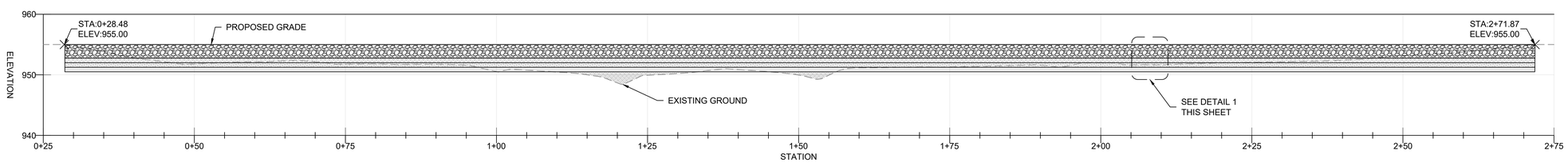
Scale 1"=5'



1 C202 **RIPRAP AND BEDDING LAYERS DETAIL**

Scale 1"=1'

NOTES:
1. STAGE 1 BEDDING MATERIAL TO BE ASTM C33 No. 3.
2. STAGE 2 BEDDING MATERIAL TO BE ASTM No. 8 OR GDOT No. 8.
3. STAGE 3 BEDDING MATERIAL TO BE C33 SAND OR GDOT 10 NS SAND.



B C104 **UPSTREAM RIPRAP CENTERLINE**

Scale 1"=10'

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE BY

ISSUED FOR CONSTRUCTION ____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

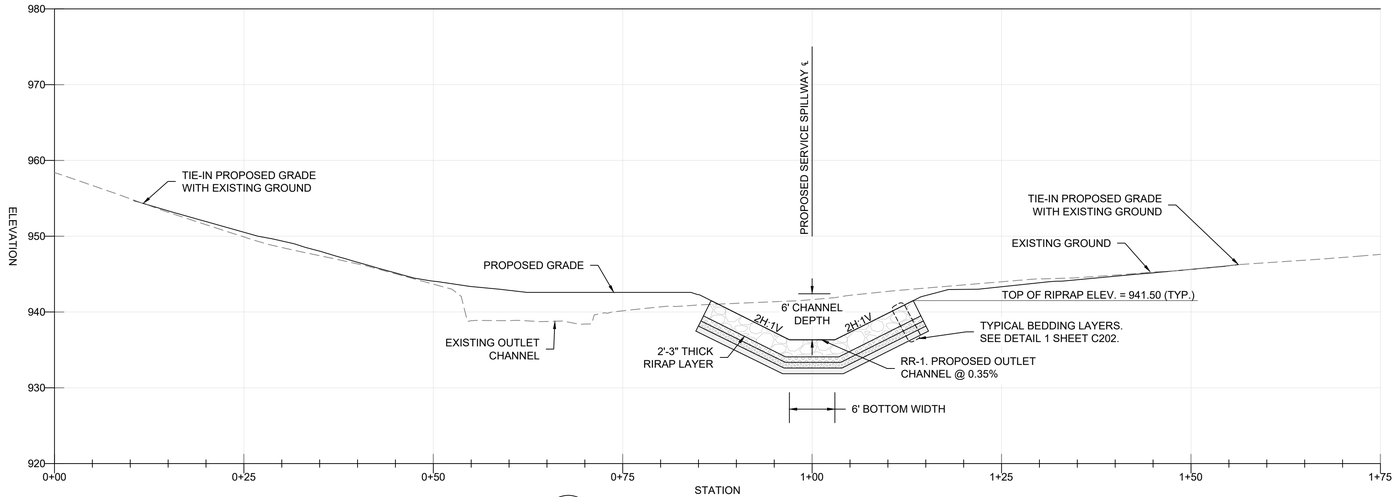
DRAWING TITLE

TYPICAL SECTIONS AND
DETAILS (1 OF 3)

SHEET NUMBER

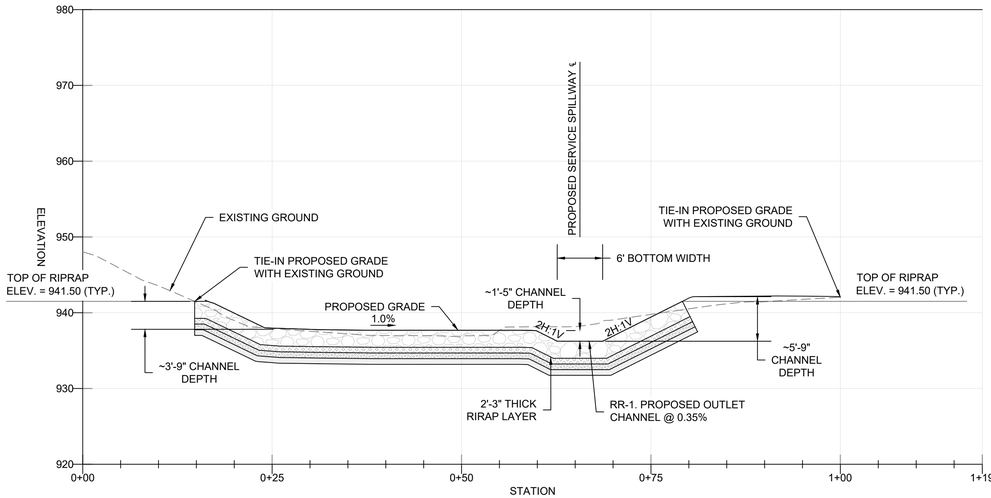
C202

SHEET 09 OF 47



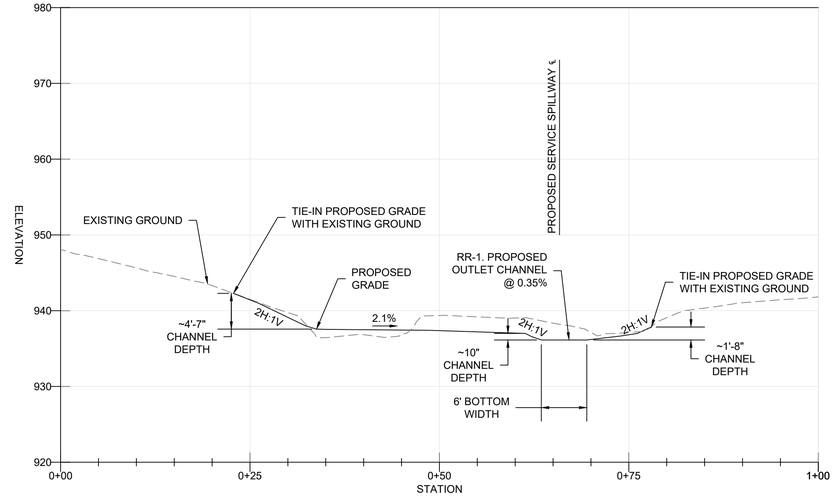
D C104 **SECTION - OUTLET CHANNEL**

STATION 12+39 TO 12+53.5 Scale 1"=10'



E C104 **SECTION - OUTLET CHANNEL**

STATION 12+53.5 TO 12+90 Scale 1"=10'



F C104 **SECTION - OUTLET CHANNEL**

STATION 12+90 Scale 1"=10'

STRUCTURE SCHEDULE					
STRUCTURE ID	TYPE	TOP ELEVATION	NORTHING	EASTING	REMARKS
HW-1	GDOT STANDARD 1001-B, U TYPE WING	942.75'	1406679.5723	2277269.1367	15" Ø, MODIFIED TO ACCOMODATE TRASH RACK, SEE STRUCTURAL SHEET S301
IT-1	INTAKE TOWER	965.00'	1406700.3192	2277257.6533	SEE STRUCTURAL DETAIL SHEETS S101 - S108
IB-1	USBR TYPE VI IMPACT BASIN	951.50'	1406826.8978	2277187.6176	48" Ø, SEE STRUCTURAL DETAIL SHEETS S201 - S204
HW-2	GDOT STANDARD 1001-B, U TYPE WING	943.69'	1406818.0086	2277148.8380	12" Ø, NON-SHRINK GROUT ANNULUS BETWEEN 12" Ø OPENING AND 6" Ø HDPE PIPE, SEE STRUCTURAL SHEET S302

PRINCIPAL SPILLWAY PIPE SCHEDULE								
FROM STRUCTURE	TO STRUCTURE	SIZE	MATERIAL	CLASS	PIPE LENGTH	UPSTREAM INV.	DOWNSTREAM INV.	SLOPE %
HW-1	IT-1	15" Ø	RCP	ASTM C361	17.71 FT	941.00'	940.83'	0.96
IT-1	IB-1	48" Ø	RCP	ASTM C361	129.53 FT	940.00'	939.00'	0.77

DRAIN PIPE SCHEDULE					
DRAIN ID	SIZE	MATERIAL	STYLE	PIPE LENGTH	REMARKS
DP - 1	6" Ø	HDPE	SLOTTED	90 FT	SEE SHEET C101 FOR PRIMARY DRAIN ALIGNMENT. SEE SHEET C206 FOR PRIMARY DRAIN PROFILE.
	6" Ø	HDPE	SOLID	17.5 FT	
DP - 2	6" Ø	HDPE	SLOTTED	13.5 FT	SEE SHEET C101 FOR STRIP DRAIN ALIGNMENT. SEE SHEET C206 FOR STRIP DRAIN PROFILE.
	6" Ø	HDPE	SOLID	11 FT	
DP - 3	6" Ø	HDPE	SLOTTED	67 FT	SEE SHEET C101 FOR EAST TOE DRAIN ALIGNMENT. SEE SHEET C207 FOR EAST TOE DRAIN PROFILE.
	6" Ø	HDPE	SOLID	30 FT	
DP - 4	6" Ø	HDPE	SLOTTED	27 FT	SEE SHEET C101 FOR WEST TOE DRAIN ALIGNMENT. SEE SHEET C207 FOR WEST TOE DRAIN PROFILE.
	6" Ø	HDPE	SOLID	12 FT	

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

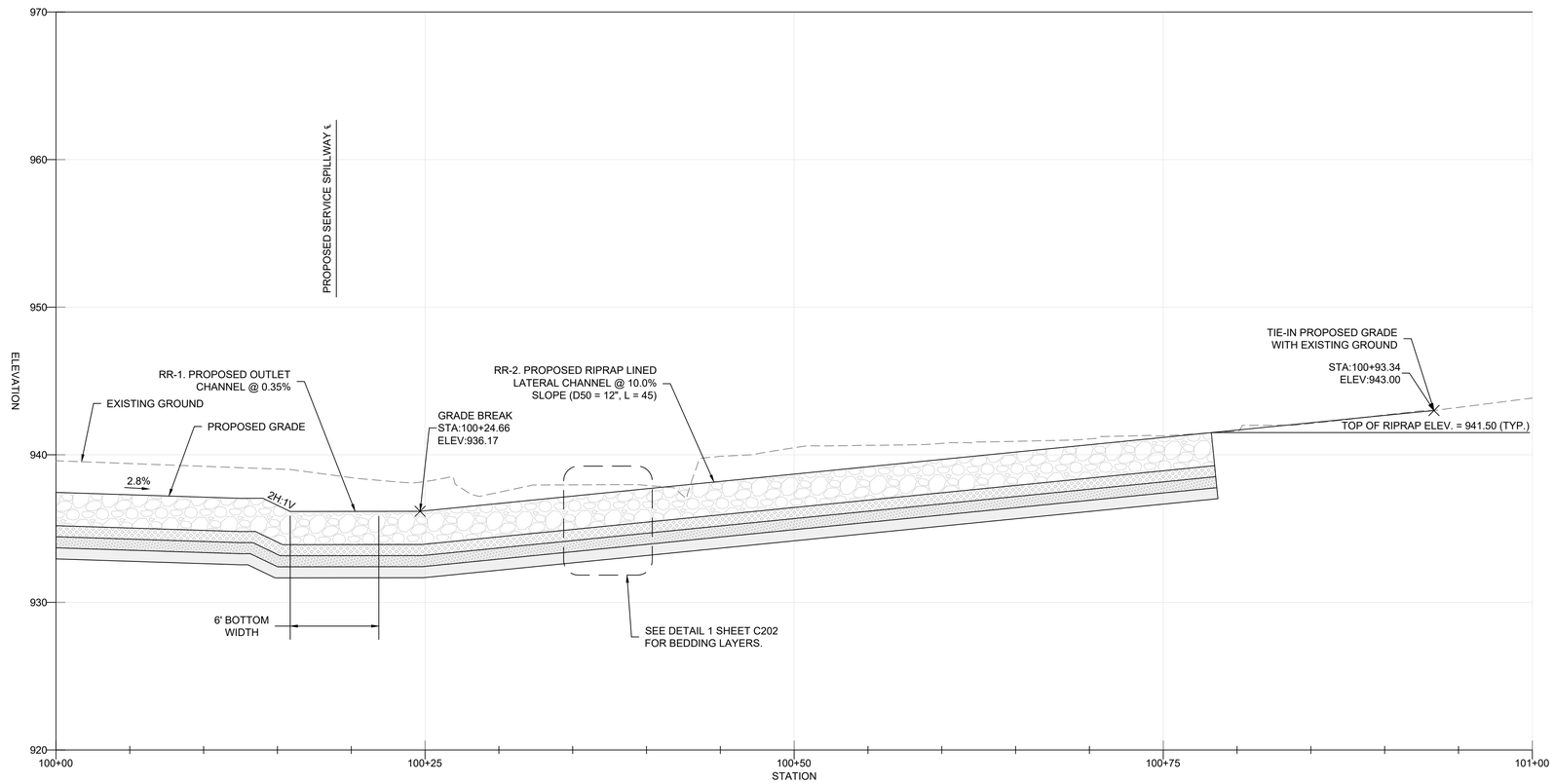
DRAWING TITLE

TYPICAL SECTIONS AND DETAILS (2 OF 3)

SHEET NUMBER

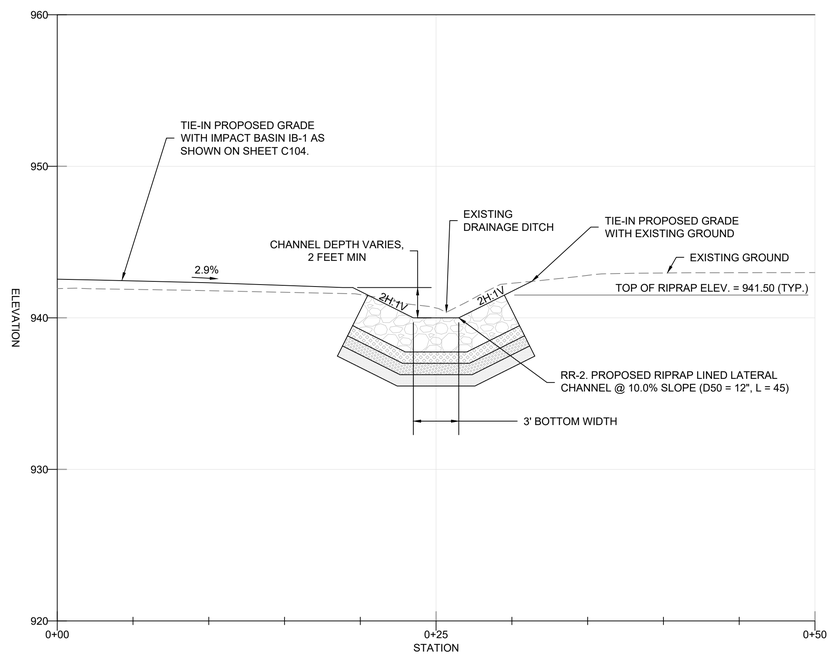
C203

SHEET 10 OF 47



1 C204 **LATERAL CHANNEL PROFILE**

Scale 1"=5'



G C104 **SECTION - LATERAL CHANNEL**

Scale 1"=10'

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

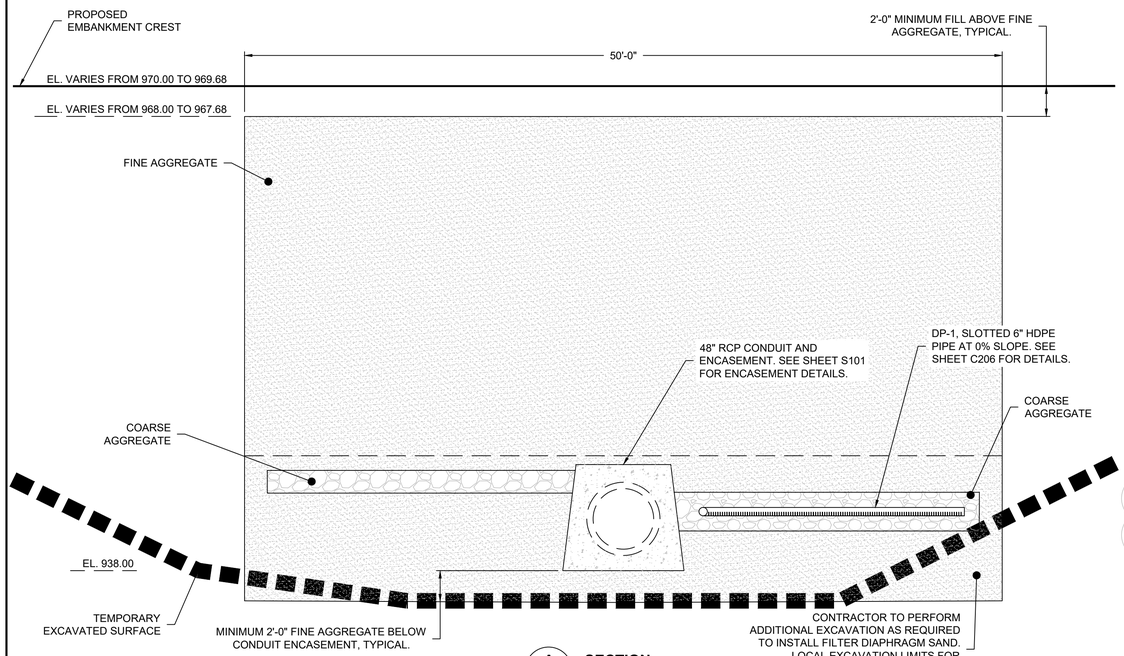
DRAWING TITLE

TYPICAL SECTIONS AND DETAILS (3 OF 3)

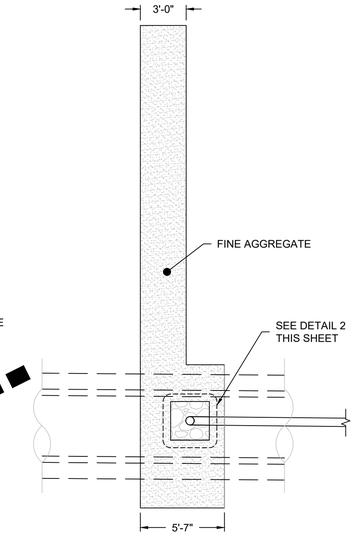
SHEET NUMBER

C204

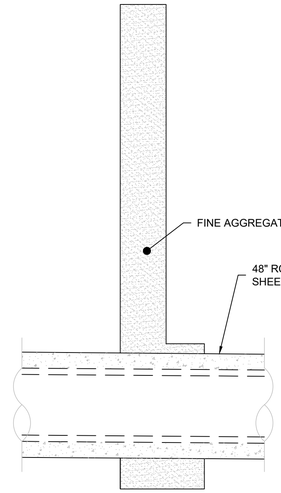
SHEET 11 OF 47



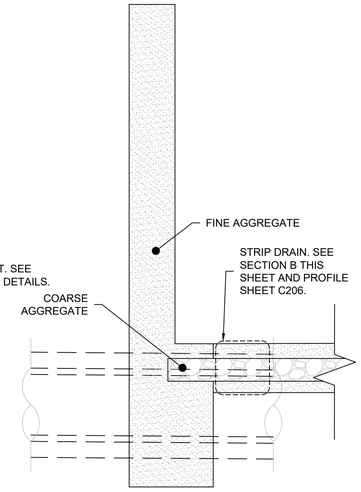
A SECTION — C205 — Scale 1"=5'



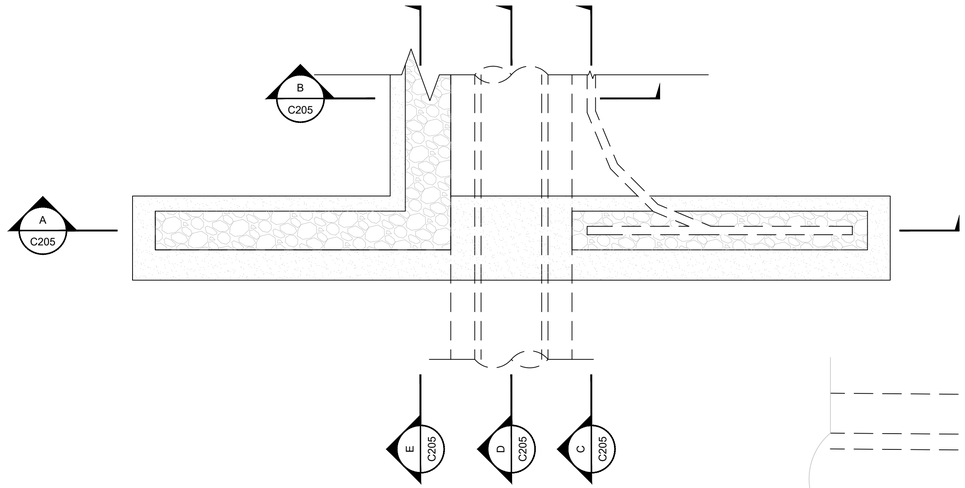
C SECTION — C205 — Scale 1"=5'



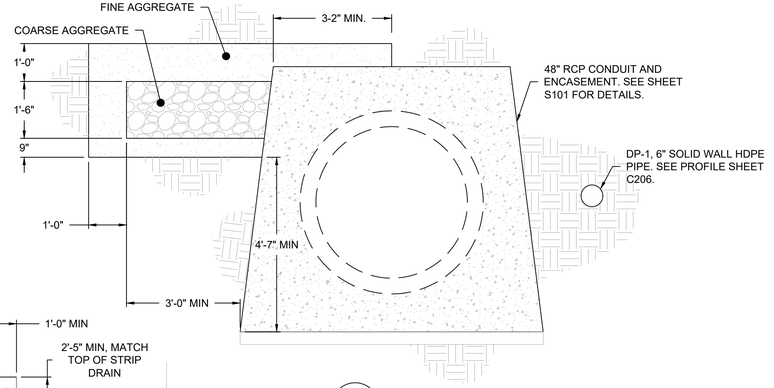
D SECTION — C205 — Scale 1"=5'



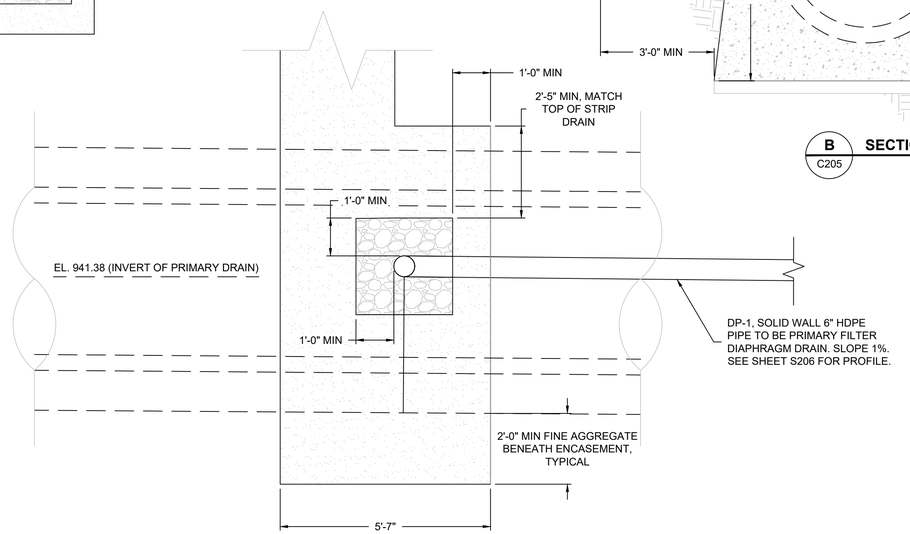
E SECTION — C205 — Scale 1"=5'



1 FILTER DIAPHRAGM SCHEMATIC PLAN — C205 — Scale 1"=5'



B SECTION — C205 — Scale 1"=2'



2 FILTER DIAPHRAGM PRIMARY DRAIN DETAIL — C205 — Scale 1"=2'

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING — DATE — BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

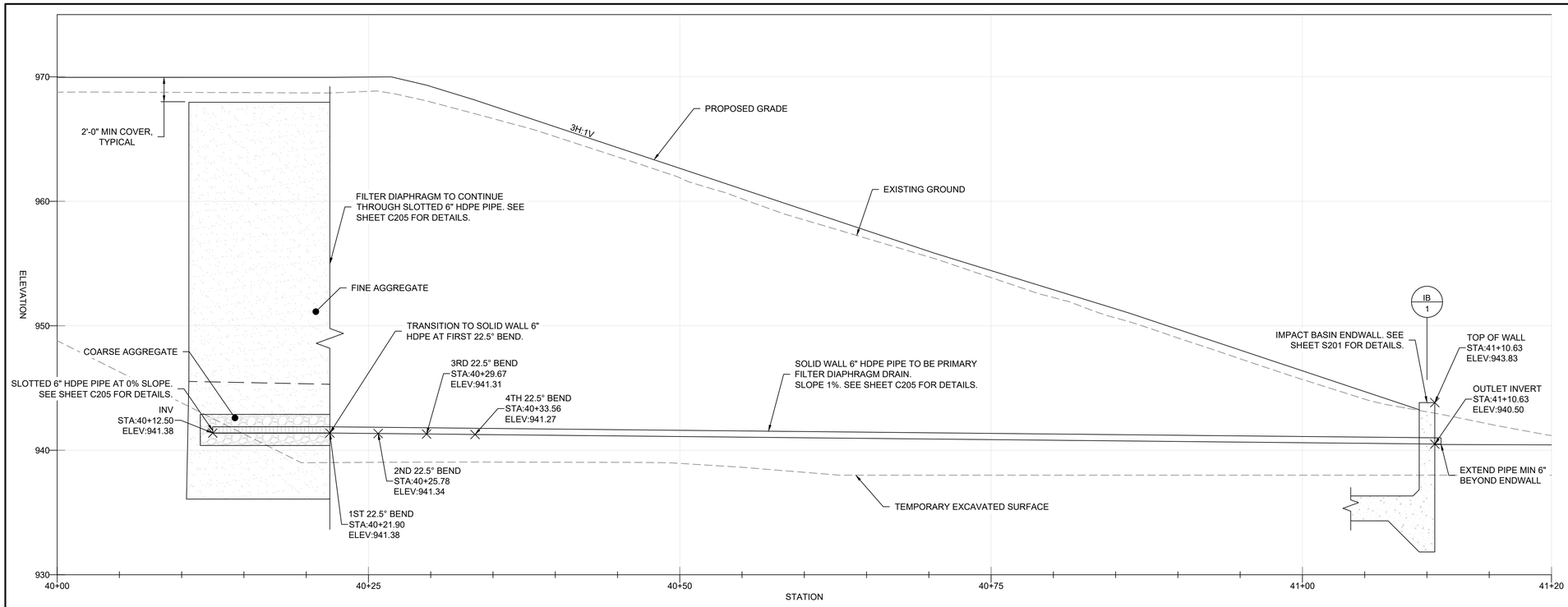
DRAWING TITLE

FILTER DIAPHRAGM
DETAILS

SHEET NUMBER

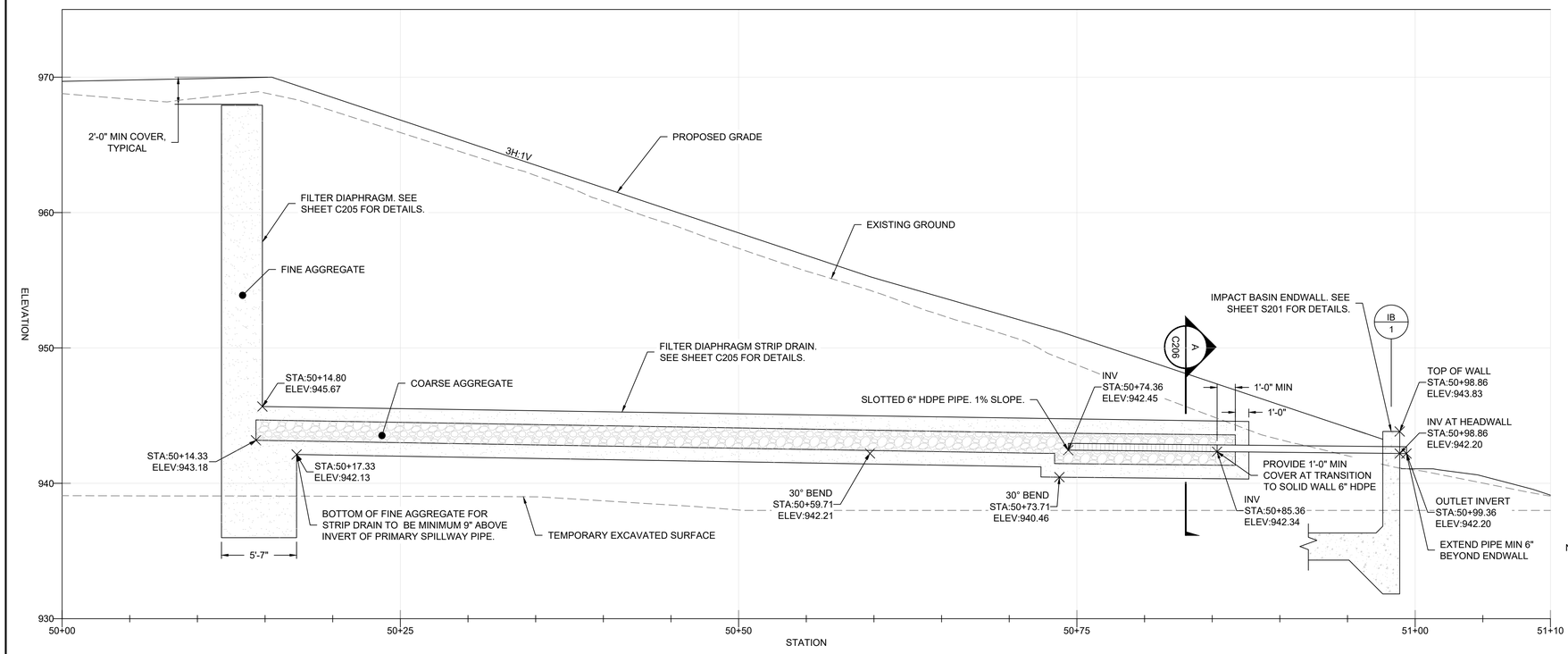
C205

SHEET 12 OF 47



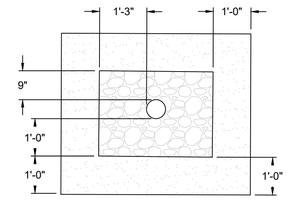
1 C206 **DP-1 FILTER DIAPHRAGM PRIMARY DRAIN PROFILE**

Scale 1"=2'



2 C206 **DP-2 FILTER DIAPHRAGM STRIP DRAIN PROFILE**

Scale 1"=5'



A C206 **SECTION**

Scale 1"=2'

NOTES:
1. PROVIDE A MINIMUM 2 FEET OF COVER ABOVE DP-1 AND DP-2 AT ALL LOCATIONS.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE BY

ISSUED FOR CONSTRUCTION ____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

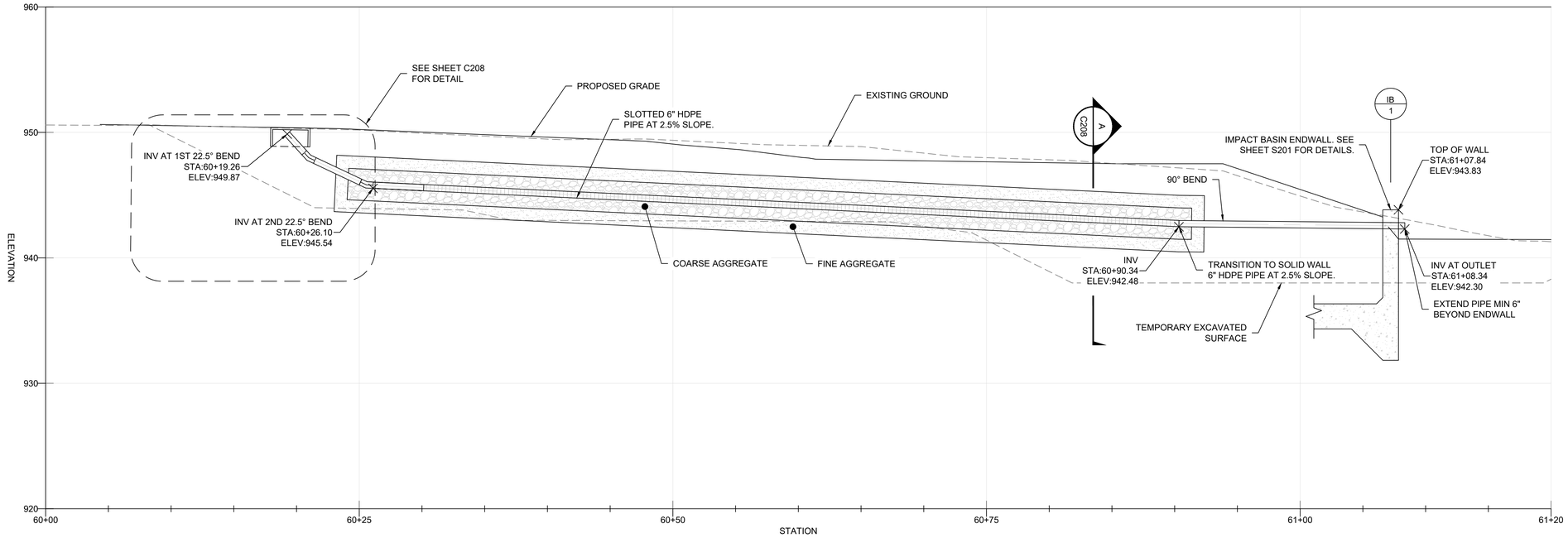
DRAWING TITLE

FILTER DIAPHRAGM OUTLET PROFILES

SHEET NUMBER

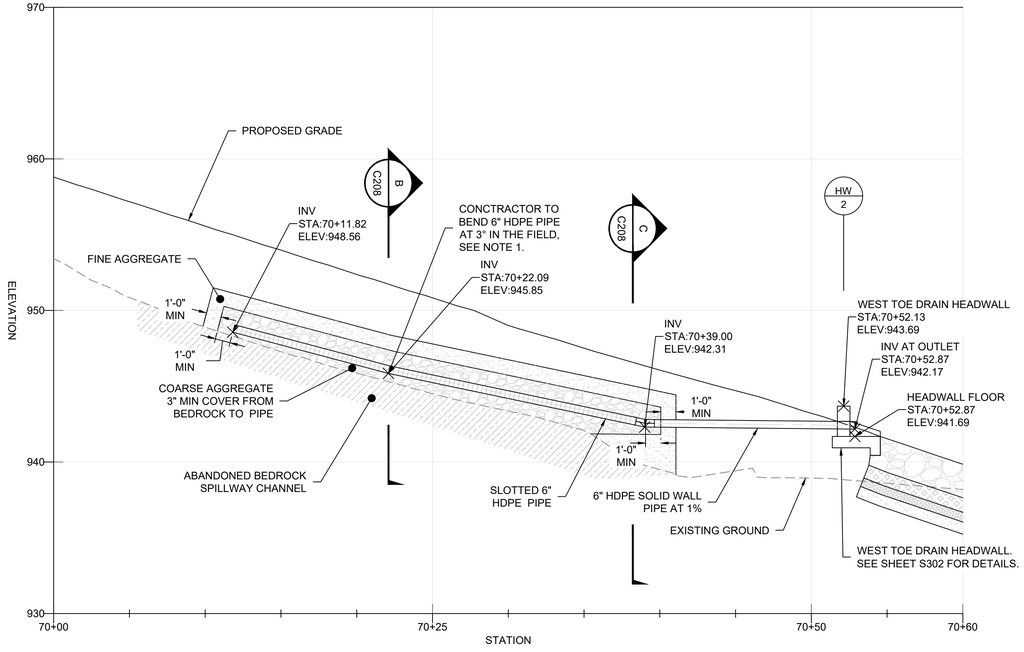
C206

SHEET 13 OF 47



1 C207 **DP-3 EAST TOE DRAIN PROFILE**

Scale 1"=5'



2 C207 **DP-4 WEST TOE DRAIN PROFILE**

Scale 1"=5'

NOTES:
1. CONTRACTOR TO BEND 6" HDPE PIPE FOR WEST TOE DRAIN AT 3° OR TO MATCH THE 3" LAYER OF SAND ABOVE ABANDONED BEDROCK CHANNEL IN THE FIELD.
2. PROVIDE A MINIMUM 2 FEET OF COVER ABOVE DP-3 AND DP-4 AT ALL LOCATIONS.

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

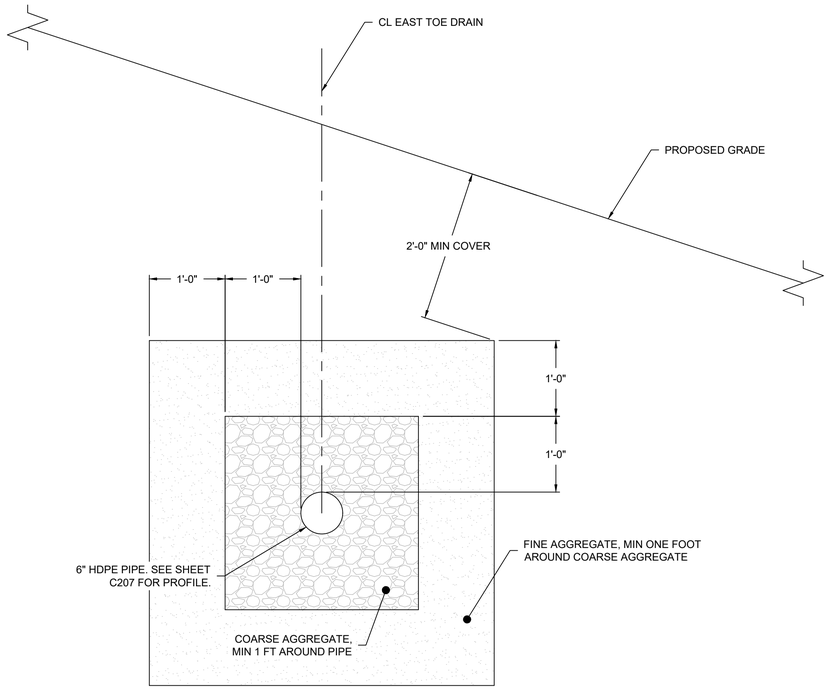
DRAWING TITLE

TOE DRAIN PROFILES

SHEET NUMBER

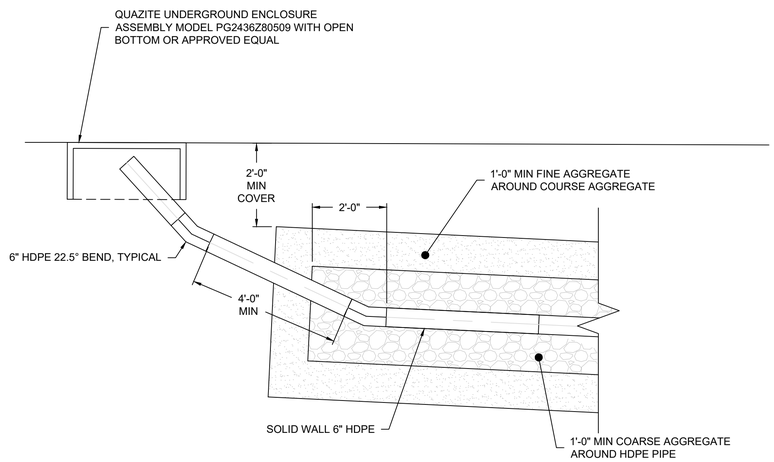
C207

SHEET 14 OF 47



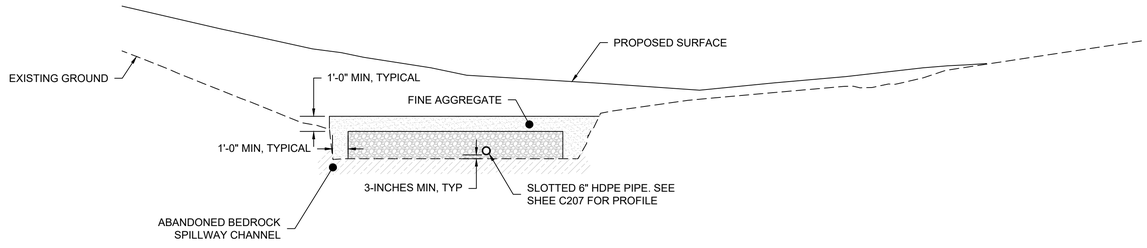
A C207 **SECTION - EAST TOE DRAIN TYPICAL SECTION**

Scale 1"=1'



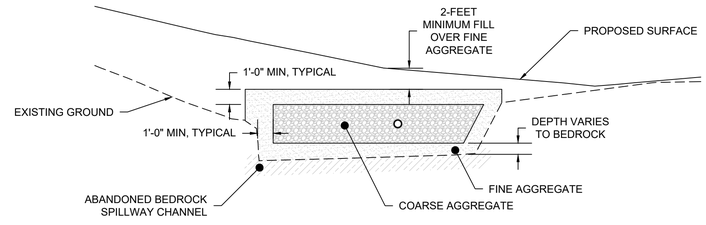
1 C208 **EAST TOE DRAIN CLEAN OUT DETAIL**

Scale 1"=2'



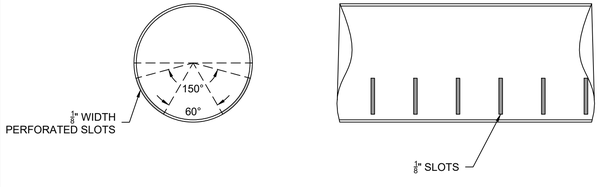
B C207 **SECTION - WEST TOE DRAIN**

Scale 1"=5'



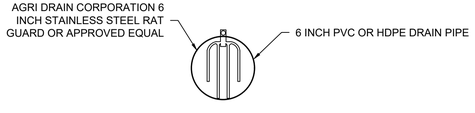
C C207 **SECTION - WEST TOE DRAIN**

Scale 1"=5'



2 C208 **SLOTTED CONDUIT DETAIL**

Scale 1"=4'



ANIMAL GUARD MANUFACTURER NOTES				
PIPE SIZE	DIAMETER OF STEEL FRAME & CENTER BARS	APPROXIMATE BAR SPACING	STEEL STRAP SIZE	BOLT SIZE
6"	1/4"	1.04"	1"x3/8"x8"	1/4"X1 1/4"

NOTE: ANIMAL GUARD DETAIL FOR ALL DRAIN OUTFALLS (4 TOTAL)

3 C208 **ANIMAL GUARD DETAIL**

NOT TO SCALE

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PEO42836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE BY

ISSUED FOR CONSTRUCTION ____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

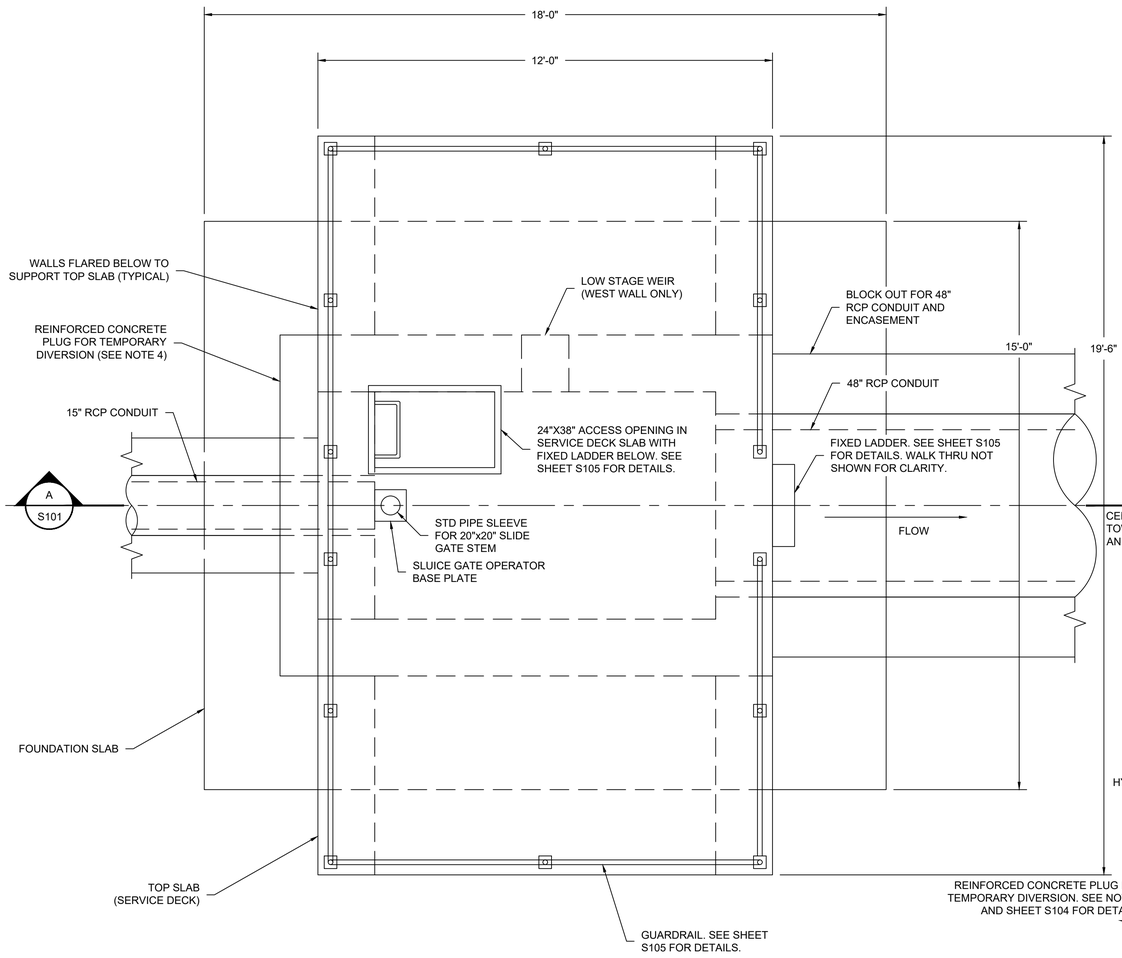
DRAWING TITLE

TOE DRAIN DETAILS

SHEET NUMBER

C208

SHEET 15 OF 47

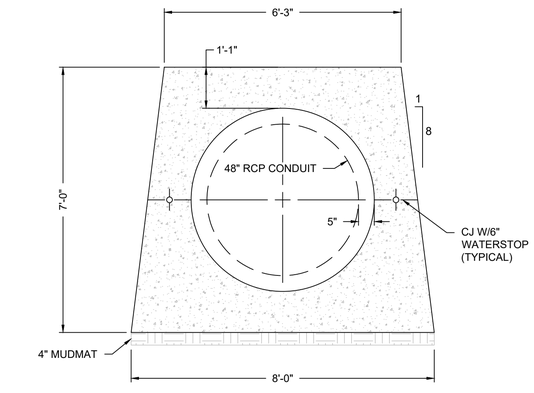


INTAKE TOWER PLAN

Scale 1/2"=1'

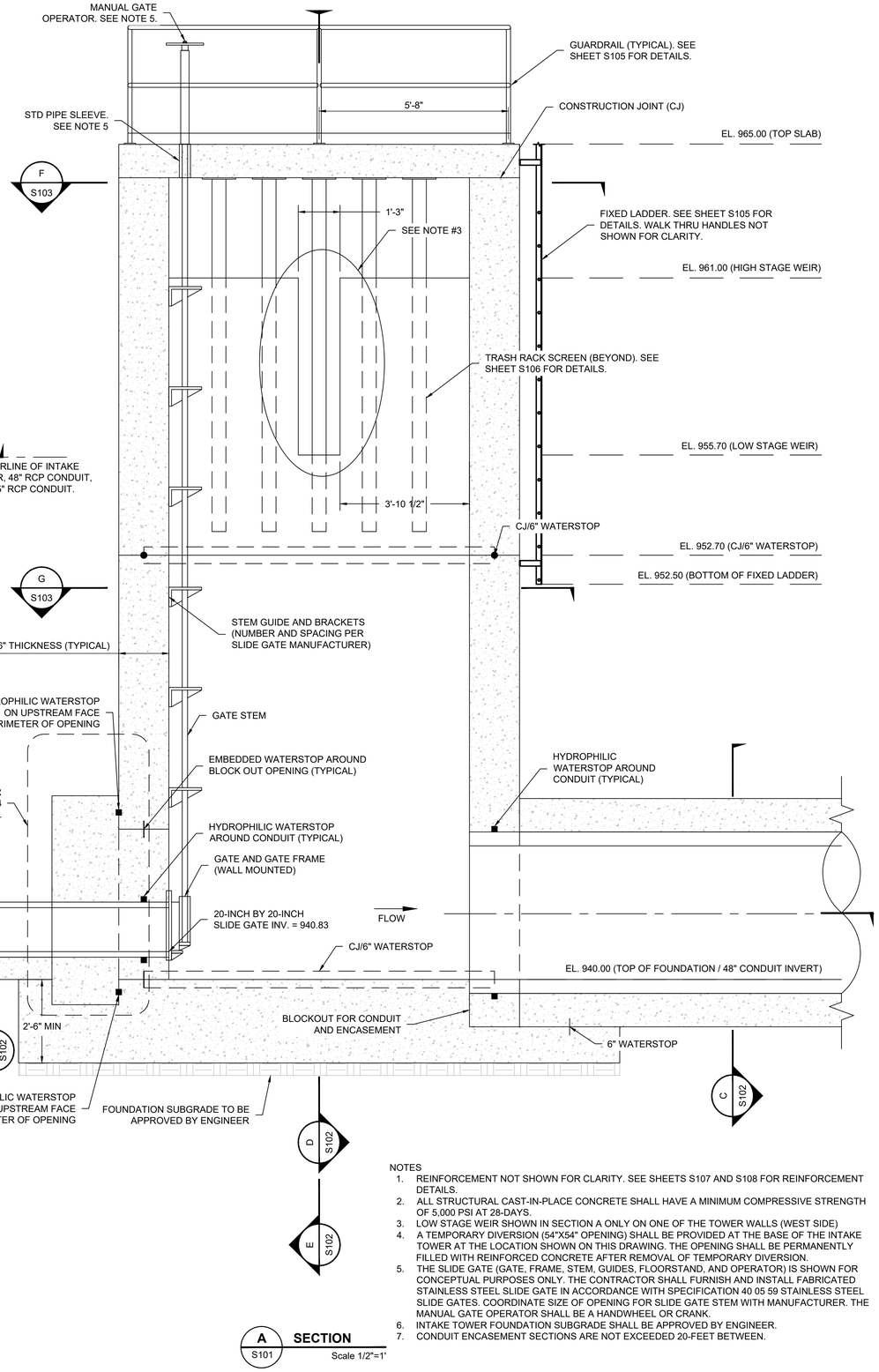
B S101 **SECTION - 15" RCP CONDUIT (TYPICAL)**

Scale 1/2"=1'



C S101 **SECTION - 48" RCP CONDUIT (TYPICAL)**

Scale 1/2"=1'



A S101 **SECTION**

Scale 1/2"=1'

NOTES

1. REINFORCEMENT NOT SHOWN FOR CLARITY. SEE SHEETS S107 AND S108 FOR REINFORCEMENT DETAILS.
2. ALL STRUCTURAL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28-DAYS.
3. LOW STAGE WEIR SHOWN IN SECTION A ONLY ON ONE OF THE TOWER WALLS (WEST SIDE)
4. A TEMPORARY DIVERSION (54"X54" OPENING) SHALL BE PROVIDED AT THE BASE OF THE INTAKE TOWER AT THE LOCATION SHOWN ON THIS DRAWING. THE OPENING SHALL BE PERMANENTLY FILLED WITH REINFORCED CONCRETE AFTER REMOVAL OF TEMPORARY DIVERSION.
5. THE SLIDE GATE (GATE, FRAME, STEM, GUIDES, FLOORSTAND, AND OPERATOR) IS SHOWN FOR CONCEPTUAL PURPOSES ONLY. THE CONTRACTOR SHALL FURNISH AND INSTALL FABRICATED STAINLESS STEEL SLIDE GATE IN ACCORDANCE WITH SPECIFICATION 40 05 59 STAINLESS STEEL SLIDE GATES. COORDINATE SIZE OF OPENING FOR SLIDE GATE STEM WITH MANUFACTURER. THE MANUAL GATE OPERATOR SHALL BE A HANDWHEEL OR CRANK.
6. INTAKE TOWER FOUNDATION SUBGRADE SHALL BE APPROVED BY ENGINEER.
7. CONDUIT ENCASEMENT SECTIONS ARE NOT EXCEEDED 20-FEET BETWEEN.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

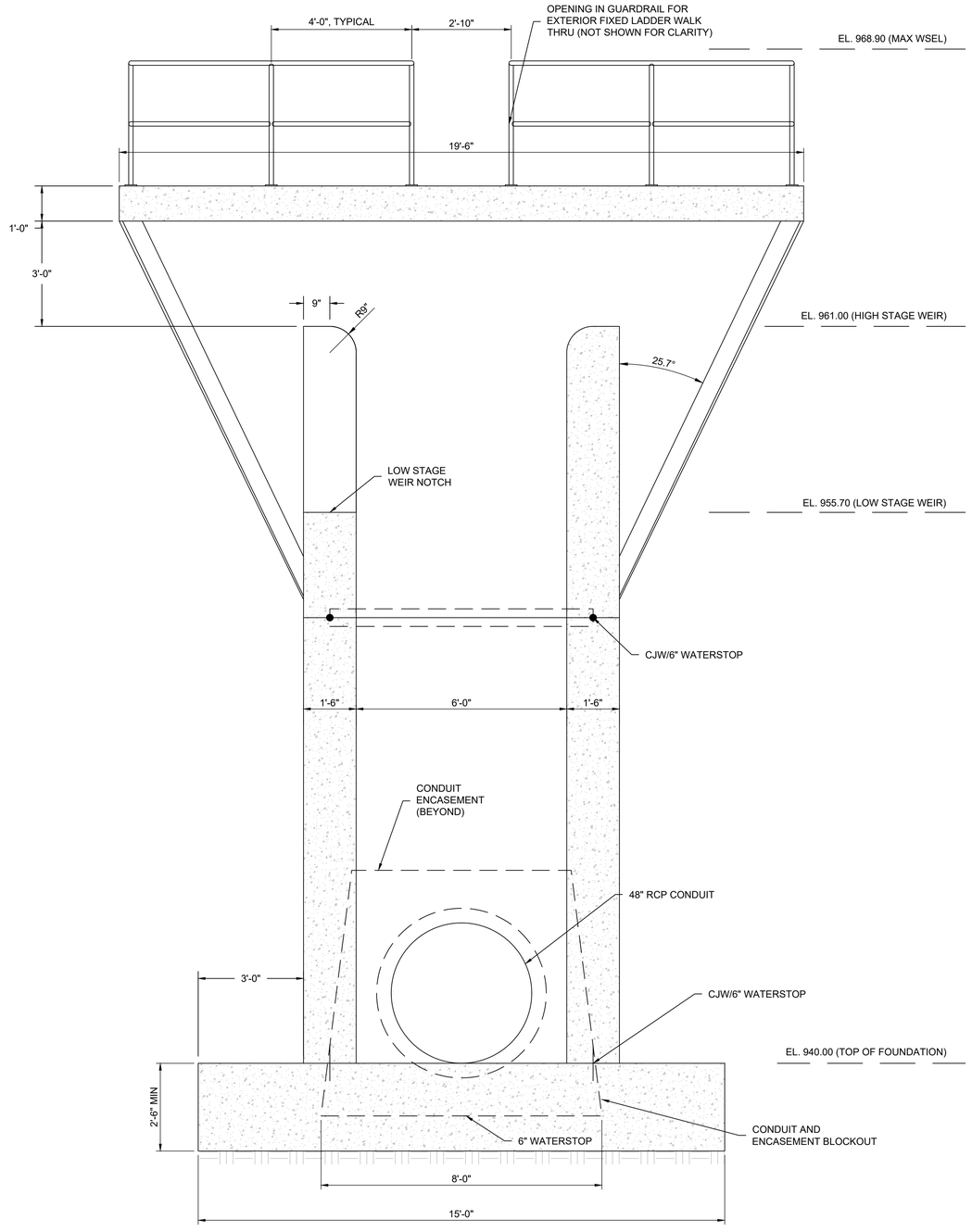
DRAWING TITLE

INTAKE TOWER DETAILS
(1 OF 6)

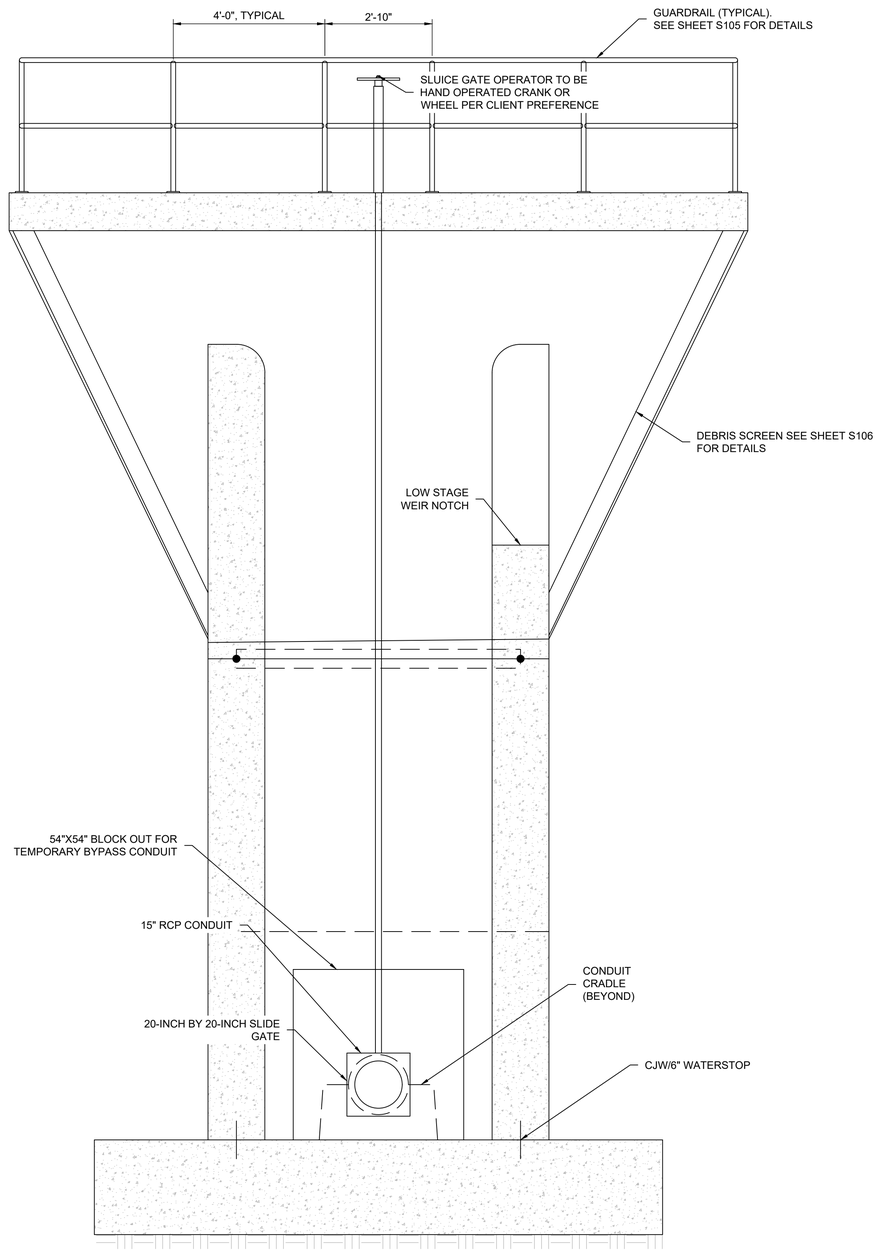
SHEET NUMBER

S101

SHEET 16 OF 47



D SECTION
S101 Scale 1/2"=1'



E SECTION
S101 Scale 1/2"=1'

LAST SAVED BY: WEISA (2024-09-12) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERIN\DAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PST-S101-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE BY

ISSUED FOR CONSTRUCTION ____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

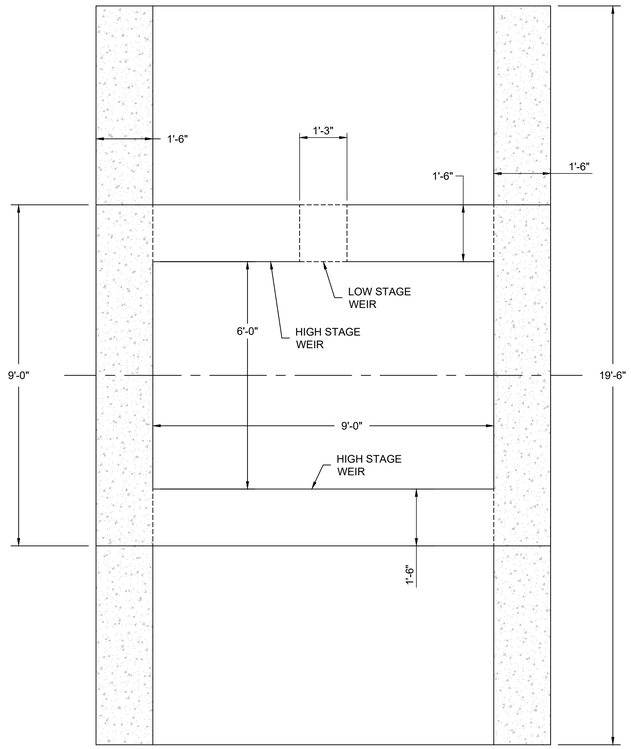
DRAWING TITLE

INTAKE TOWER DETAILS
(2 OF 6)

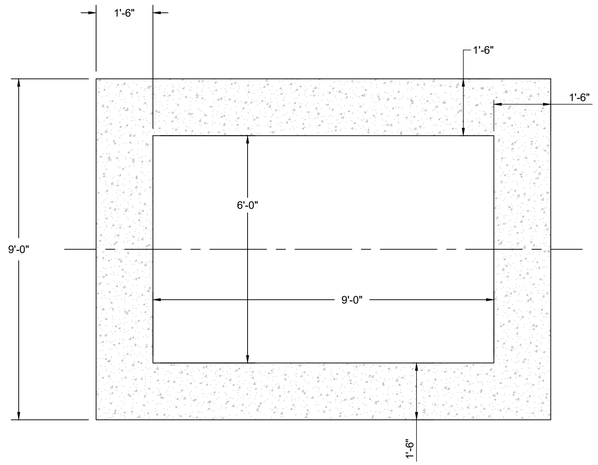
SHEET NUMBER

S102

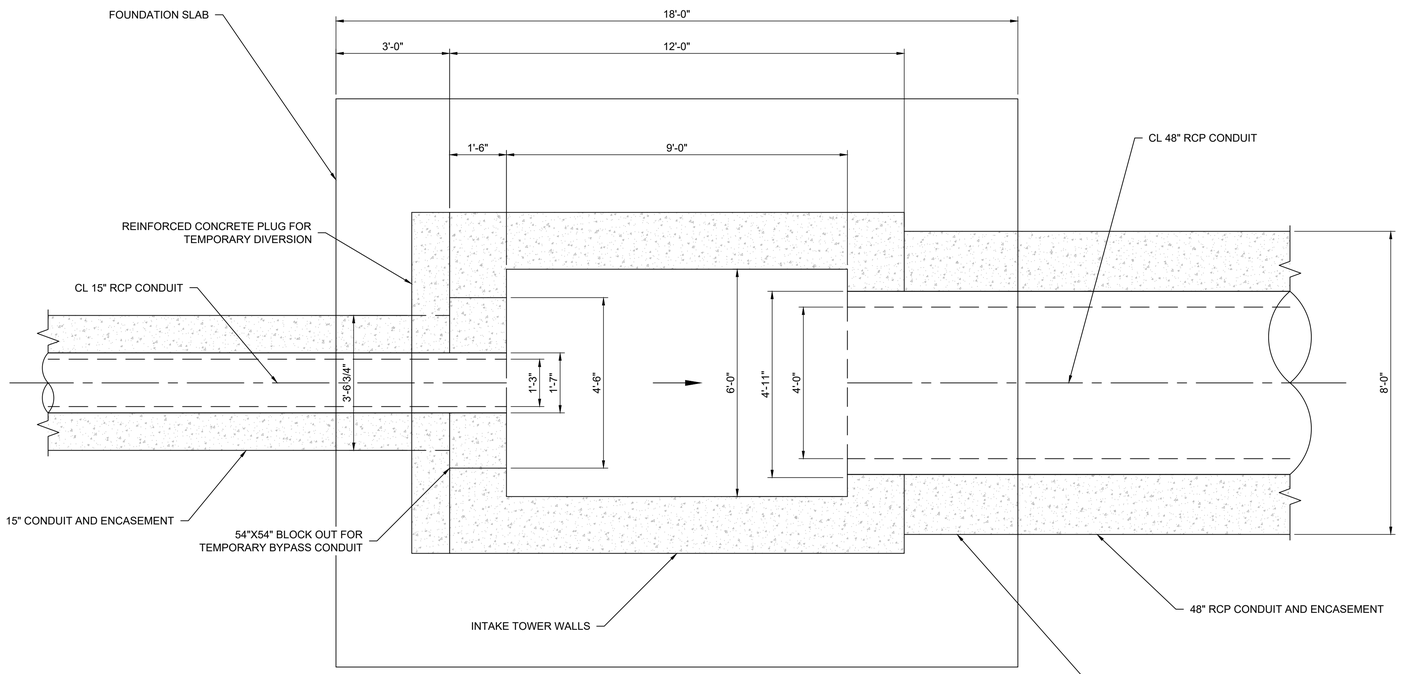
SHEET 17 OF 47



F S101 **SECTION**
Scale 1/2"=1'



G S101 **SECTION**
Scale 1/2"=1'



H S101 **SECTION**
Scale 1/2"=1'

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE ____ BY

ISSUED FOR CONSTRUCTION ____ DATE ____ BY

REVISIONS

NO.	DATE	DESCRIPTION

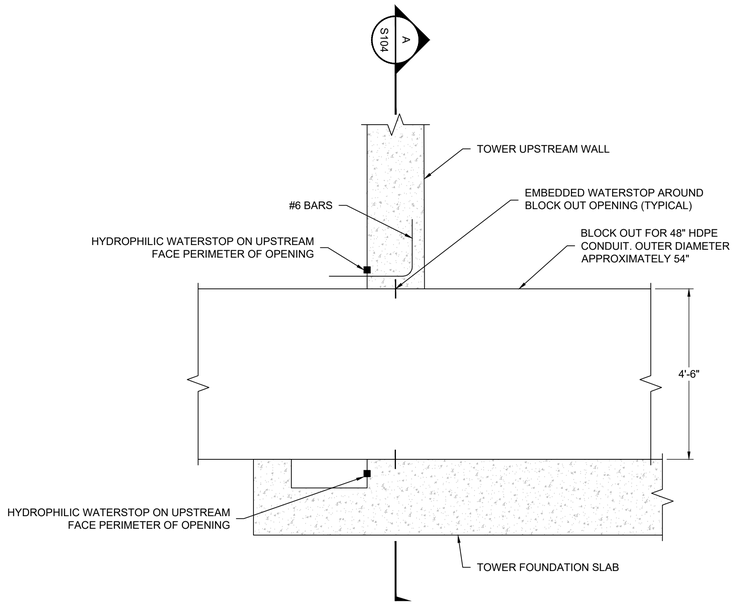
AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

INTAKE TOWER DETAILS
(3 OF 6)

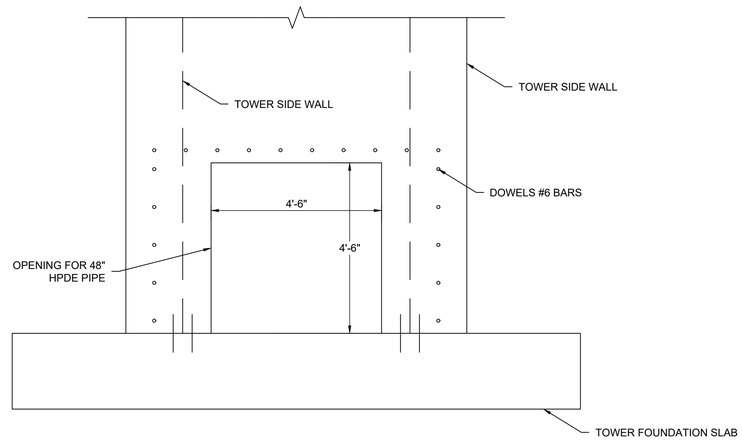
SHEET NUMBER

S103



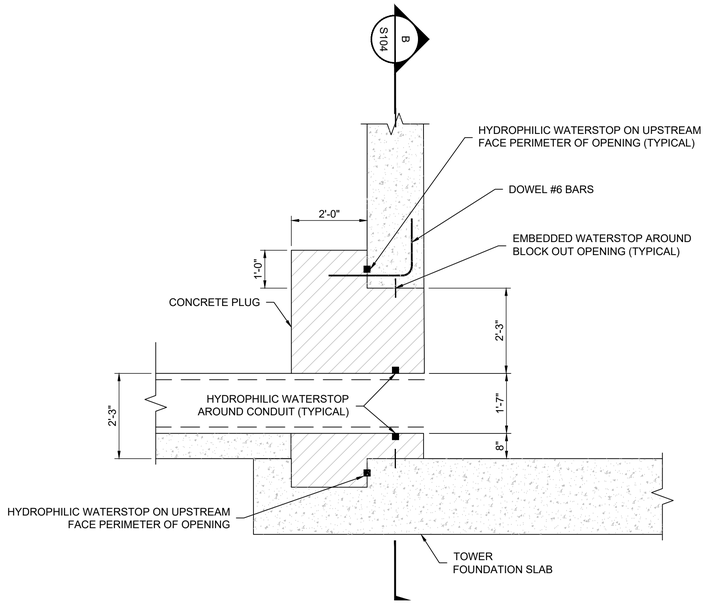
1 S104 TEMPORARY 48" HDPE CONDUIT BLOCK OUT DETAIL

Scale 1/2"=1'



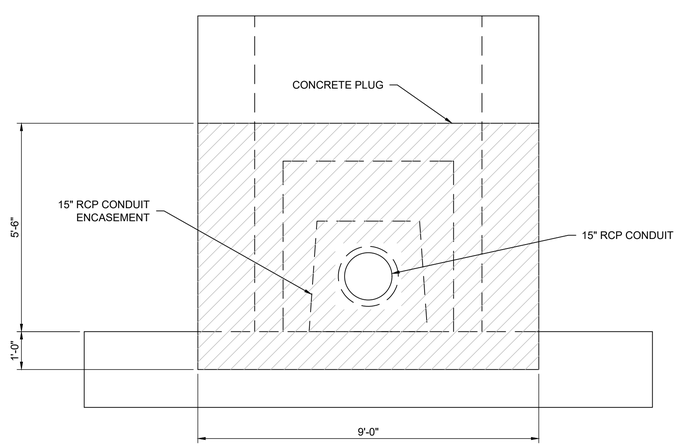
A S104 SECTION

Scale 1/2"=1'



2 S104 POST PLUG DETAIL

Scale 1/2"=1'



B S104 SECTION

Scale 1/2"=1'

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

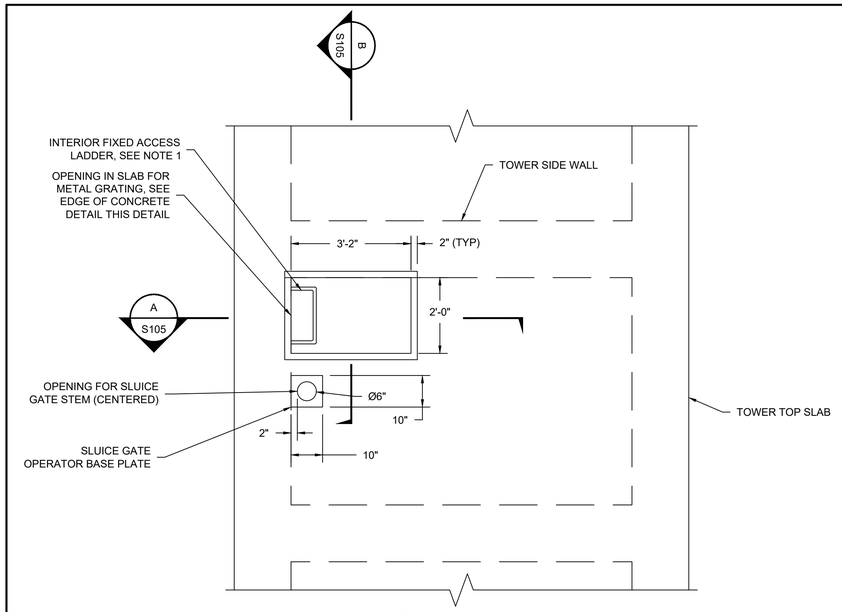
DRAWING TITLE

INTAKE TOWER
DETAILS (4 OF 6)

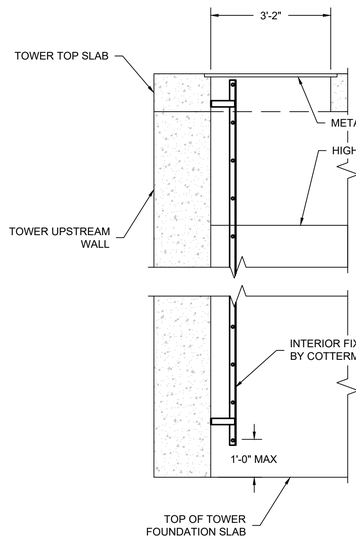
SHEET NUMBER

S104

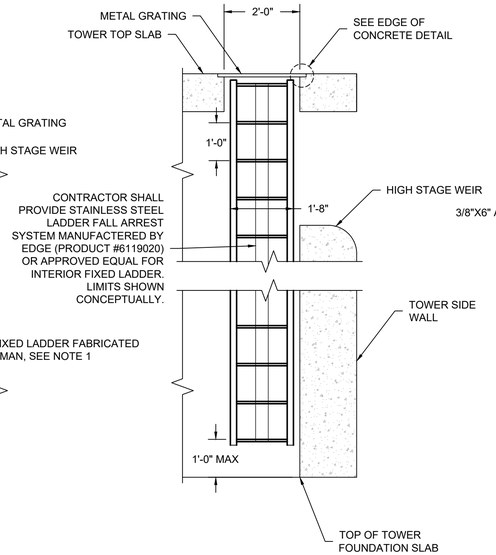
SHEET 19 OF 47



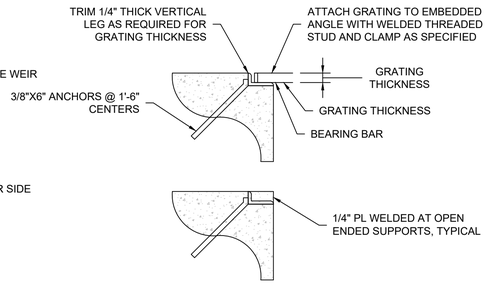
1 S105 TOP SLAP OPENING LOCATIONS
Scale 1/2"=1'



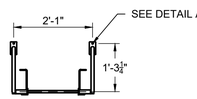
A S105 SECTION
Scale 1/2"=1'

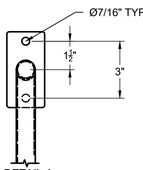


B S105 SECTION
Scale 1/2"=1'

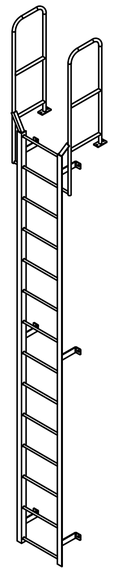


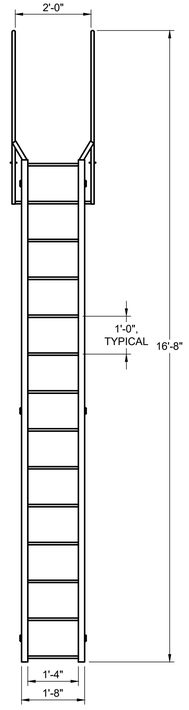
EDGE OF CONCRETE DETAIL
Scale 2"=1'

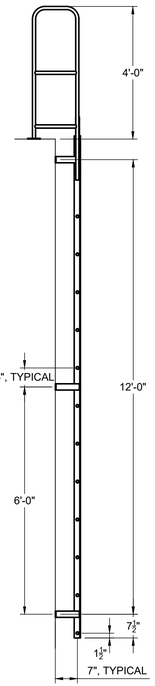




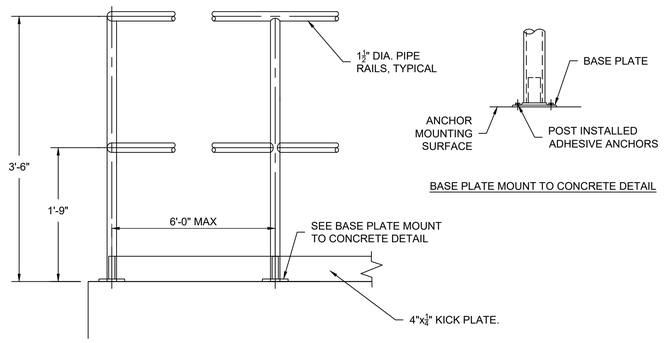
DETAIL A



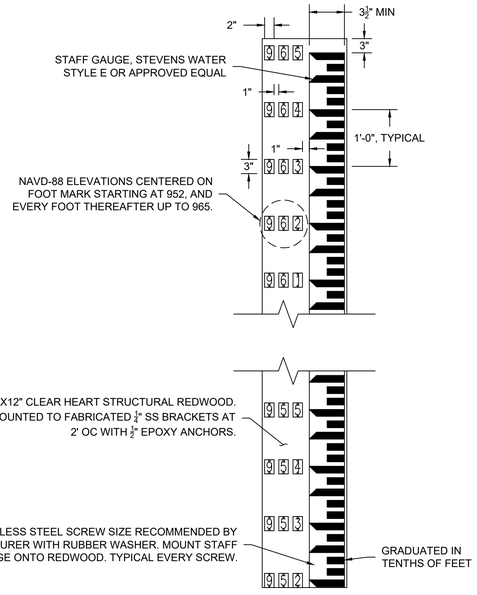




2 S105 EXTERIOR FIXED LADDER DETAIL
Scale 1/2"=1'



3 S105 GUARDRAIL DETAIL
Scale 1"=1'



4 S105 STAFF GAUGE DETAIL
Scale 3/4"=1'

NOTES
1. INTERIOR AND EXTERIOR FIXED LADDERS SHALL BE DESIGNED AND DETAILED BY FABRICATOR. FIXED LADDER DETAILS ON THIS SHEET SHOWN FOR REFERENCE ONLY. INTERIOR LADDER TO BE 25 RUNG FIXED STEEL LADDER FABRICATED BY COTTERMAN PART F25S, OR APPROVED EQUAL. LADDER TO BE 14 RUNG FIXED STEEL LADDER WITH WALK-THRU HANDRAILS FABRICATED BY COTTERMAN PART NUMBER F14W, OR APPROVED EQUAL. FIXED LADDER SHALL MEET THE MINIMUM REQUIREMENTS IN OSHA PART 1910.23. EXTERIOR FIXED LADDER SHALL HAVE SECURITY LADDER GUARD TO PREVENT PUBLIC ACCESS TO EXTERIOR FIXED LADDER. LADDER GUARD TO BE FABRICATED BY COTTERMAN, OR APPROVED EQUAL.
2. SIDE MEMBERS ARE 1/4"X2"X2" STEEL ANGLE. 3/4" CORRUGATED STEEL ROUND CLIMBING RUNGS ON 12" CENTERS. STANDOFF MOUNTING BRACKETS ARE 7". STANDOFF BRACKET LOCATIONS SHOWN ARE +/- 1".
3. DO NOT PREDRILL HOLES IN THE STRUCTURE. HOLES SHOULD BE MATCH DRILLED TO INSURE PROPER ALIGNMENT.
4. SINCE THE MAXIMUM HEIGHT OF THE EXTERIOR LADDER IS UNDER 24 FEET, IT DOES NOT REQUIRE A PERSONAL FALL ARREST SYSTEM OR A LADDER SAFETY SYSTEM. FOR INTERIOR LADDER, CONTRACTOR TO PROVIDE STAINLESS STEEL LADDER FALL ARREST SYSTEM FABRICATED BY EDGE (PRODUCT # 6119020), OR APPROVED EQUAL PROPOSED LADDER FALL ARREST SYSTEM TO MEET REQUIREMENTS IN OSHA PART 1910.23.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

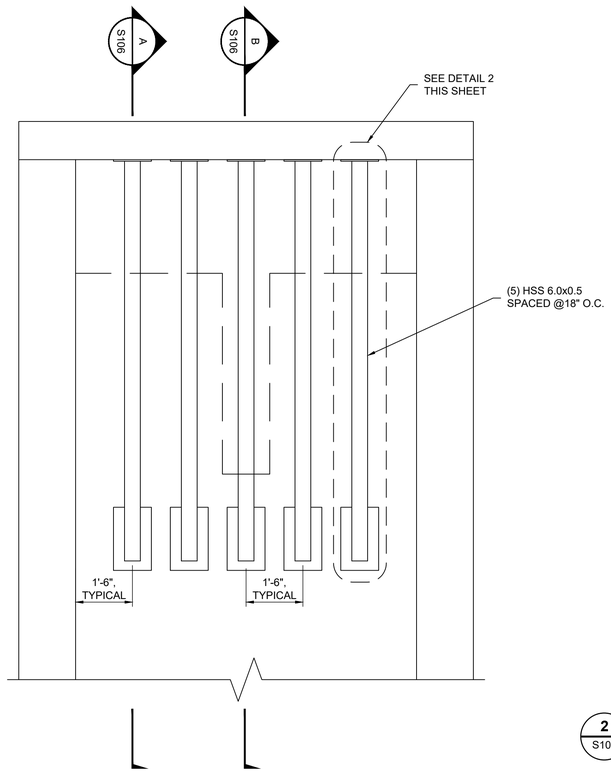
DRAWING TITLE

INTAKE TOWER DETAILS (5 OF 6)

SHEET NUMBER

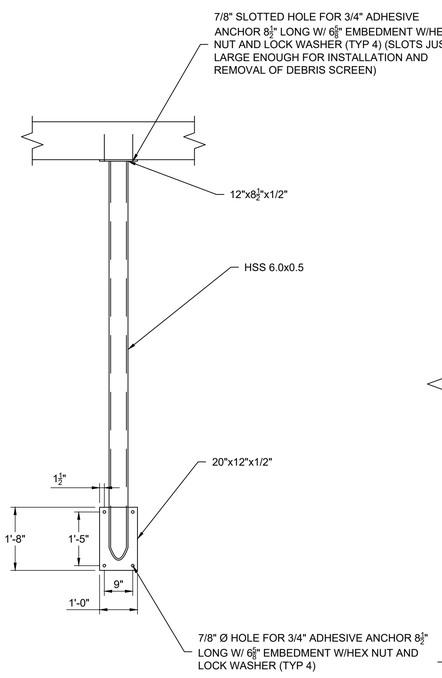
S105

SHEET 20 OF 47



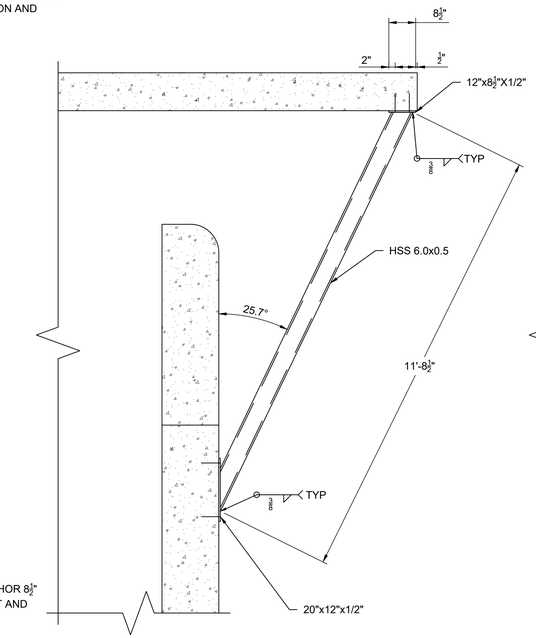
1 S106 **INTAKE TOWER DEBRIS SCREEN DETAIL**

Scale 1/2"=1'



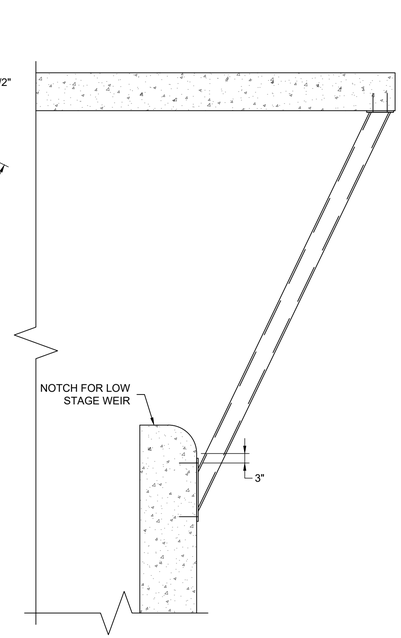
2 S106 **DEBRIS SCREEN ANCHOR DETAIL**

Scale 1/2"=1'



A S106 **SECTION**

Scale 1/2"=1'



B S106 **SECTION**

Scale 1/2=1'

NOTES
1. ALL STRUCTURAL STEEL FOR DEBRIS SCREEN INCLUDING HARDWARE SHALL BE HOT-DIPPED GALVANIZED.

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

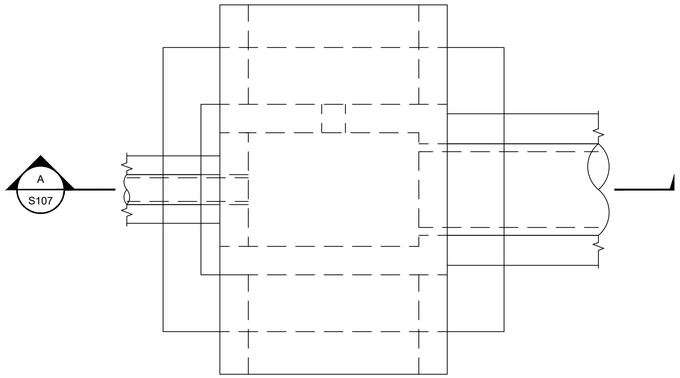
DRAWING TITLE

INTAKE TOWER
DETAILS (6 OF 6)

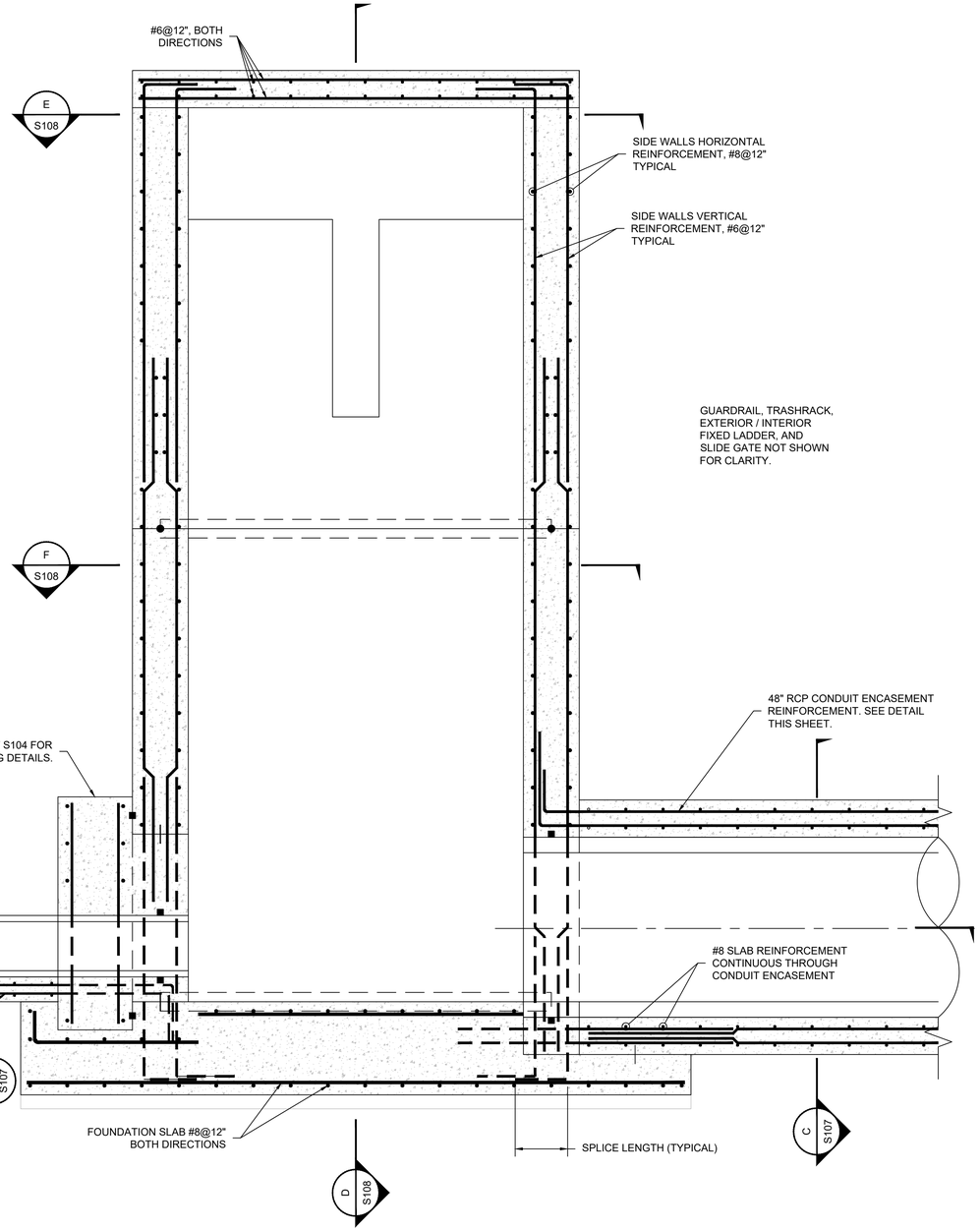
SHEET NUMBER

S106

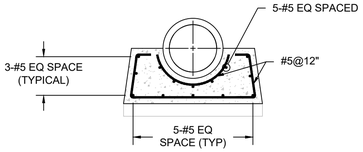
SHEET 21 OF 47



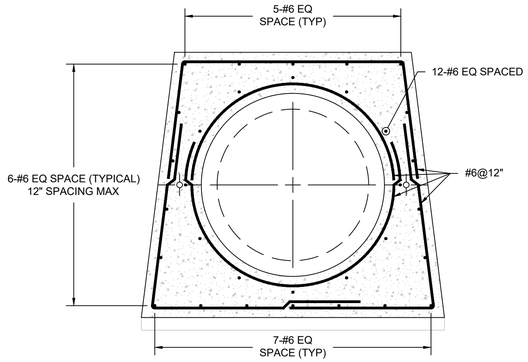
INTAKE TOWER KEY PLAN
Scale 1/4"=1'



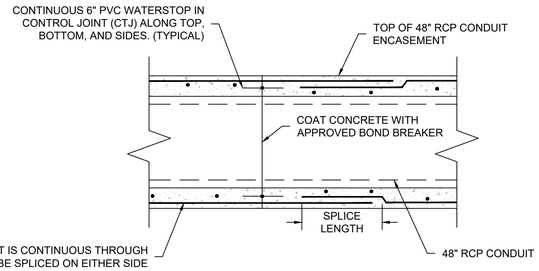
A S107 **SECTION**
Scale 1/2"=1'



B S107 **SECTION - 15" RCP CONDUIT REINFORCEMENT**
Scale 1/2"=1'



C S107 **SECTION - 48" RCP CONDUIT REINFORCEMENT**
Scale 1/2"=1'



1 S107 **CONDUIT ENCASEMENT CONTROL JOINT DETAIL**
Scale 1/4"=1'

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE BY

ISSUED FOR CONSTRUCTION ____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

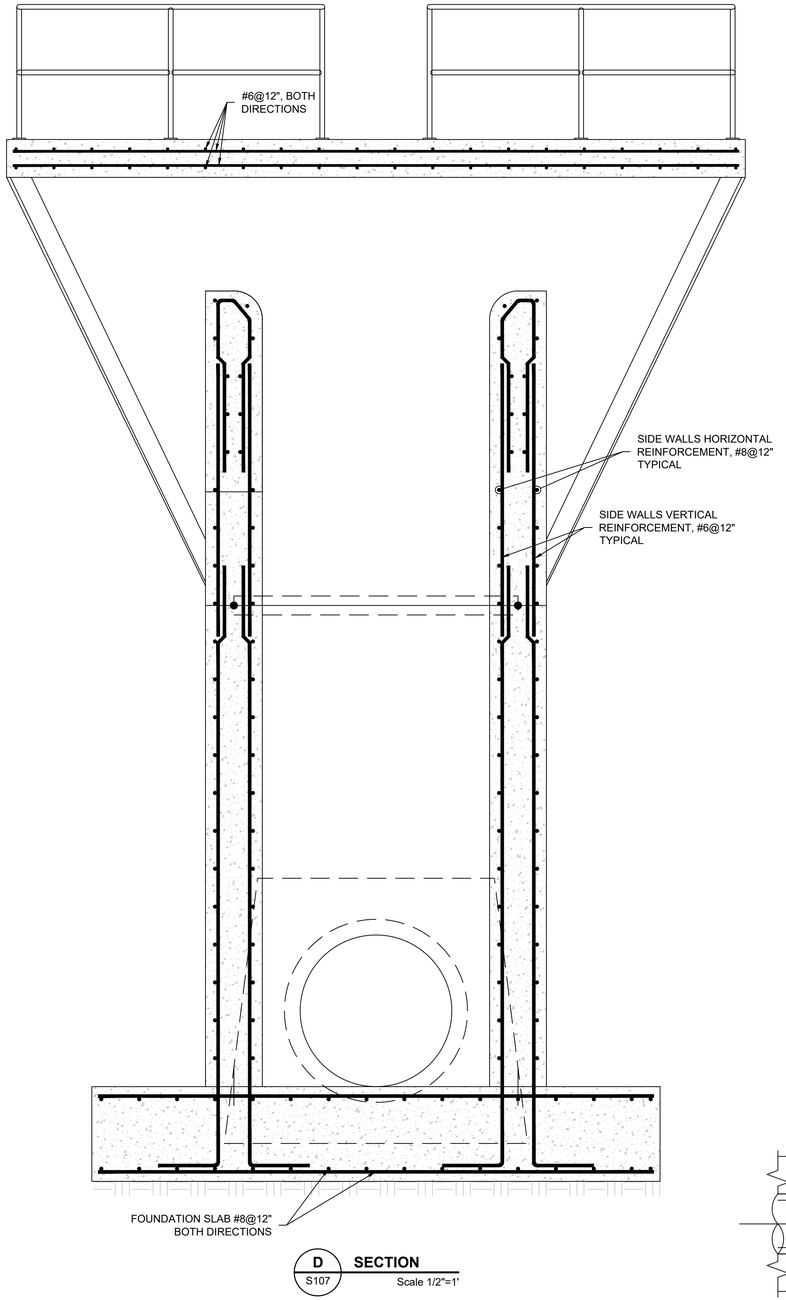
DRAWING TITLE

INTAKE TOWER REINFORCEMENT (1 OF 2)

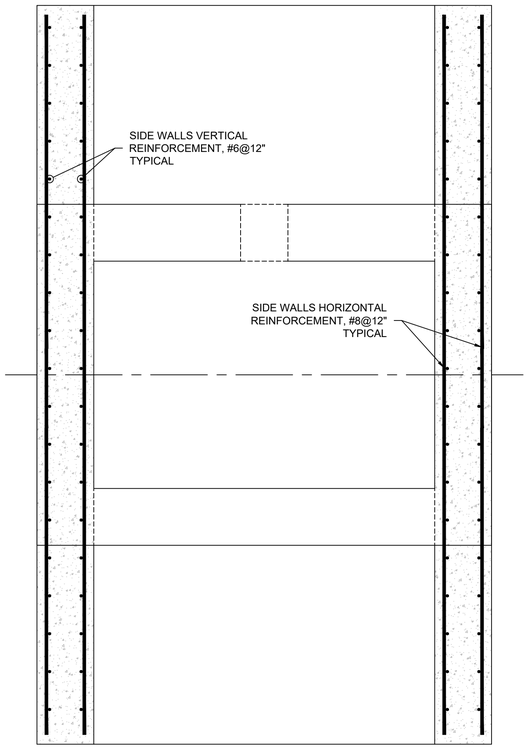
SHEET NUMBER

S107

SHEET 22 OF 47

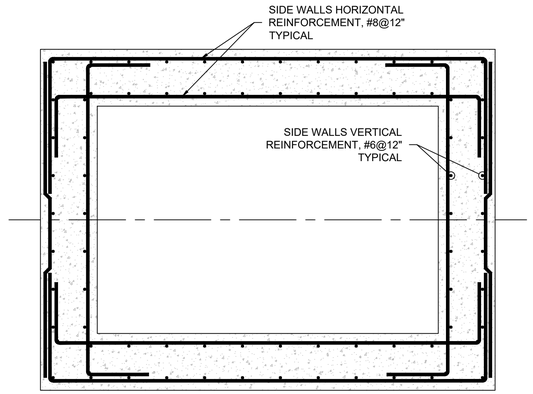


D SECTION
S107 Scale 1/2"=1'

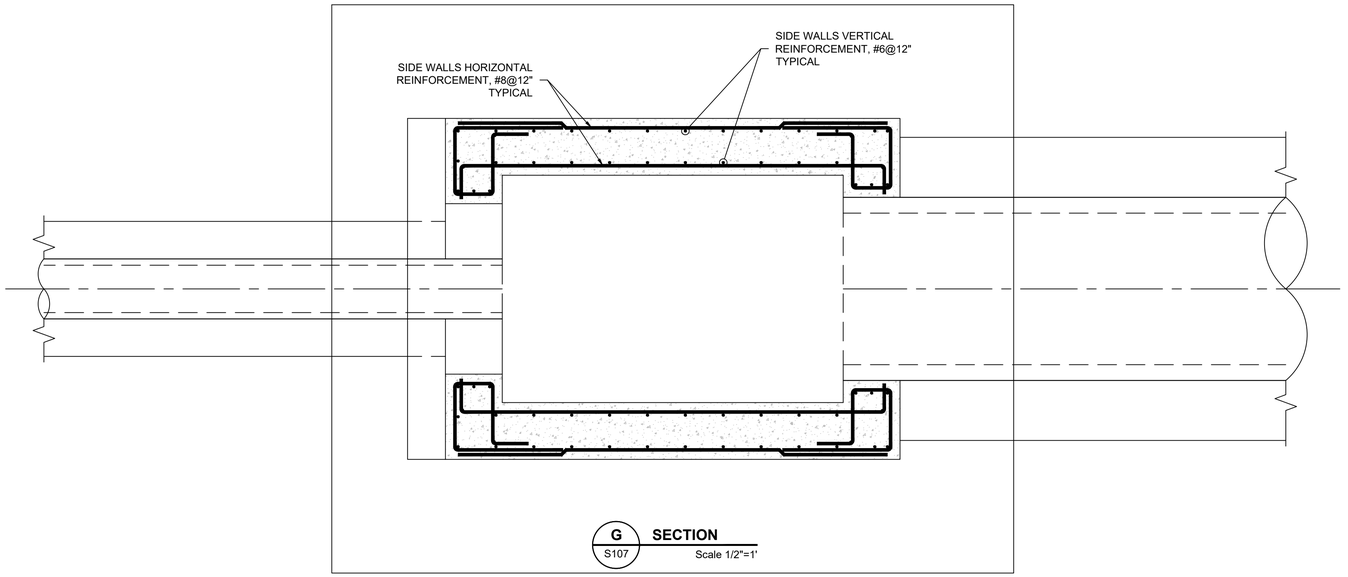


E SECTION
S107 Scale 1/2"=1'

SECTION E NOTES:
1. HORIZONTAL BARS TO BE TRIMMED TO MATCH THE UPSTREAM AND DOWNSTREAM FLARED WALLS.
2. VERTICAL BARS AT THE WALL ENDS WILL BE PARALLEL TO THE WALL END.



F SECTION
S107 Scale 1/2"=1'



G SECTION
S107 Scale 1/2"=1'

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

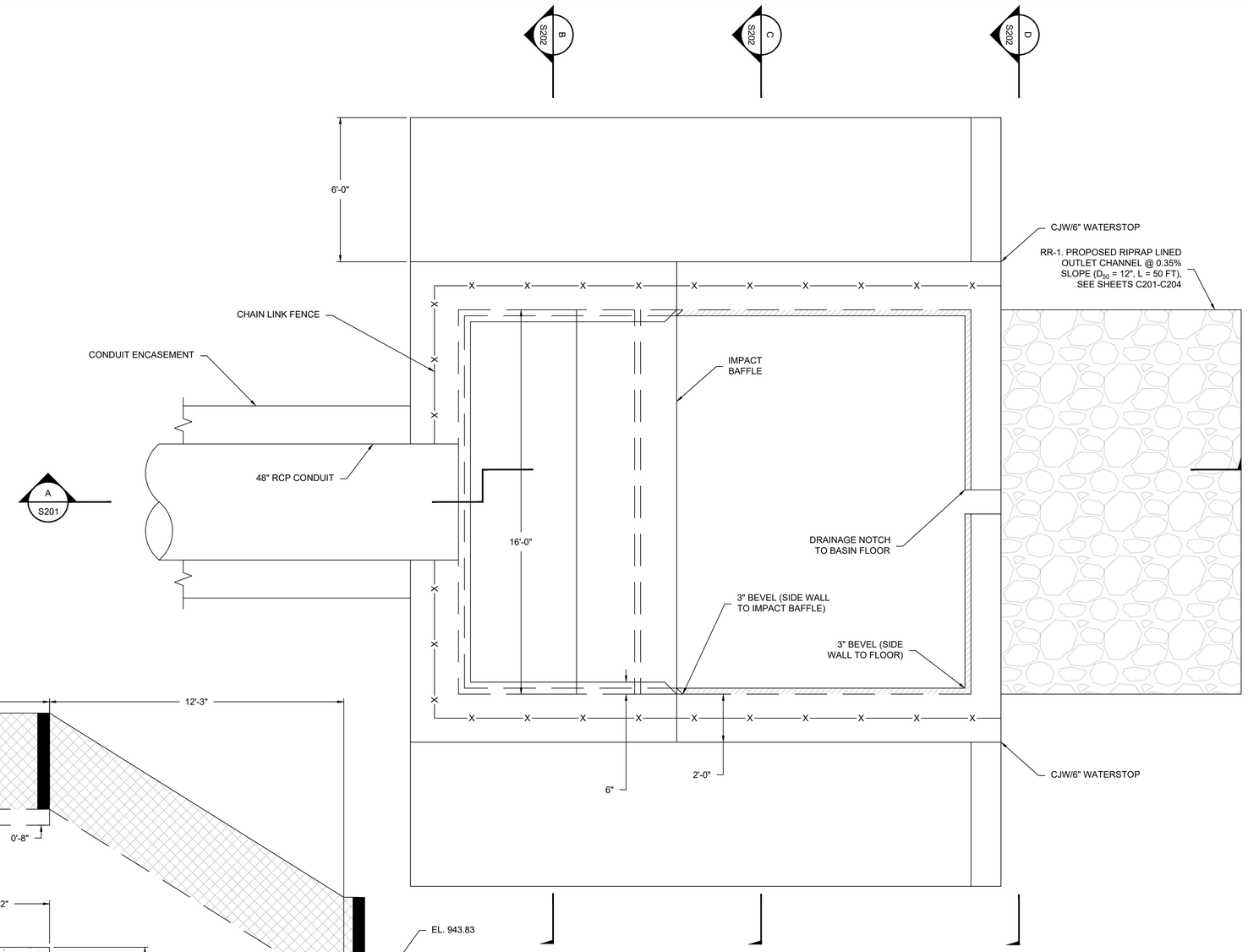
DRAWING TITLE

INTAKE TOWER
REINFORCEMENT (2 OF 2)

SHEET NUMBER

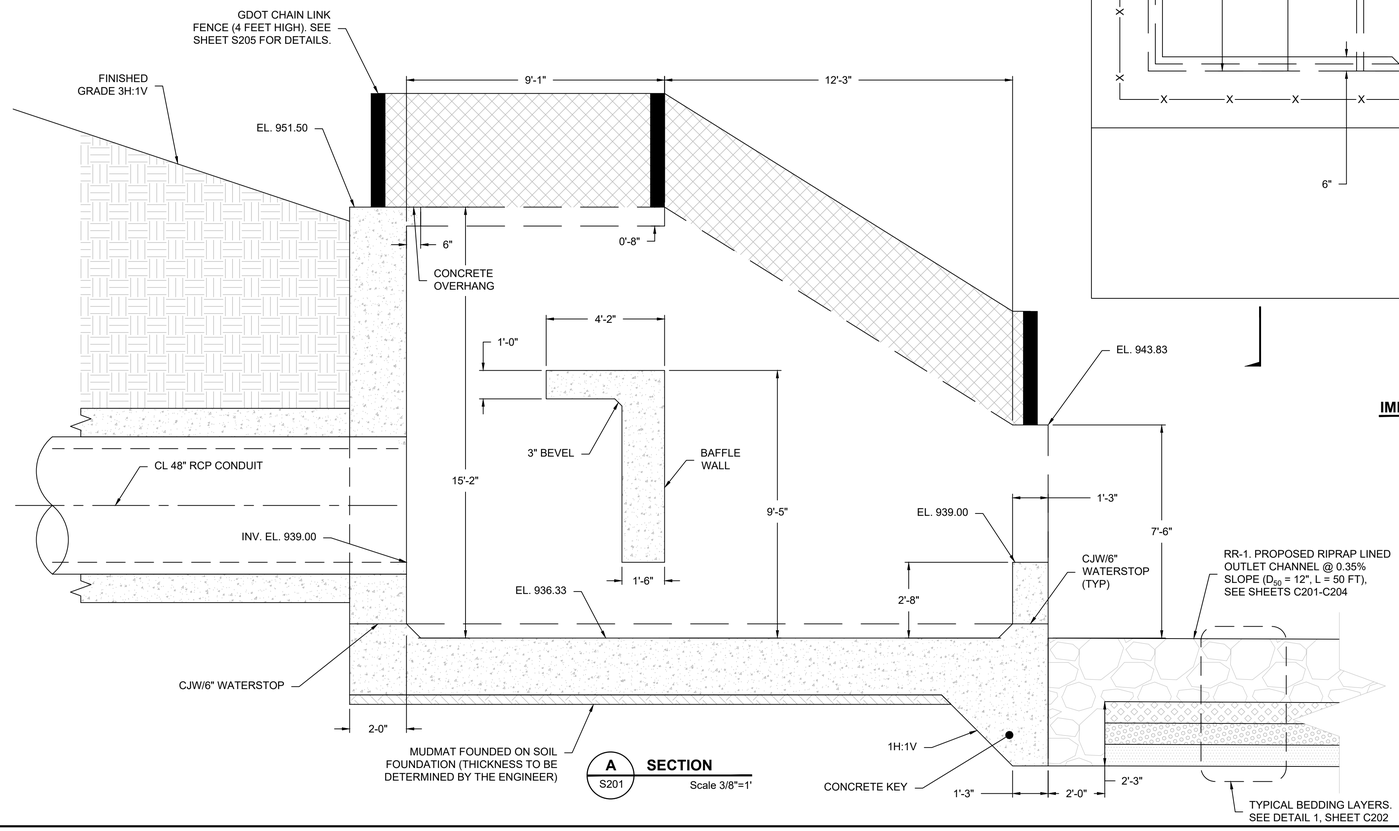
S108

SHEET 23 OF 47



IMPACT BASIN PLAN

Scale 3/8"=1'



A SECTION

A S201

Scale 3/8"=1'

NOTES:

1. REINFORCEMENT NOT SHOWN FOR CLARITY. SEE REINFORCEMENT DETAIL SHEETS S203 AND S204.
2. ALL STRUCTURAL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28-DAYS.
3. PLACE BAFFLE WALL MONOLITHICALLY WITH SIDE WALLS OF ENERGY DISSIPATION STRUCTURE.
4. SEE SHEET C104 FOR BACKFILL GRADING PLAN.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE BY

ISSUED FOR CONSTRUCTION ____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

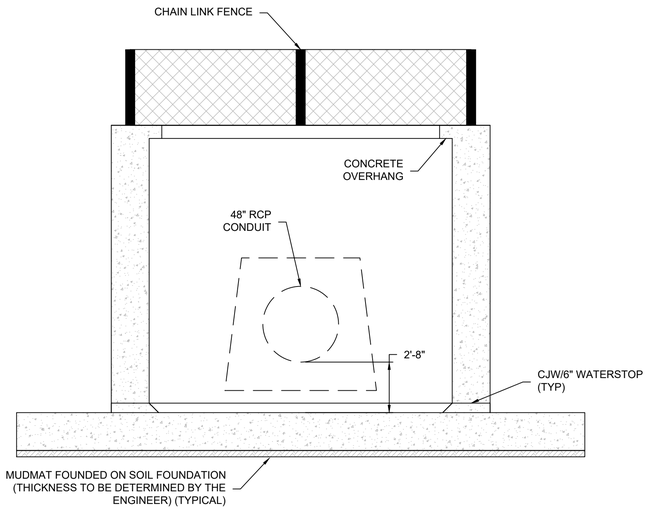
DRAWING TITLE

IMPACT BASIN DETAILS (1 OF 2)

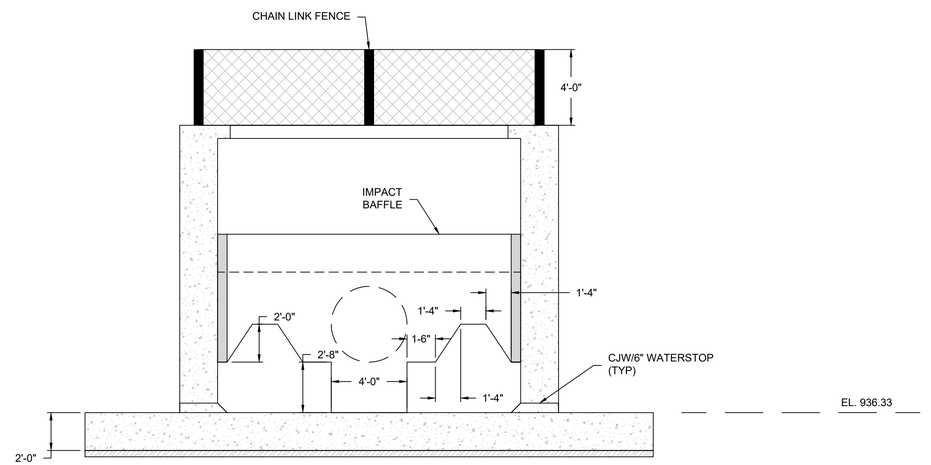
SHEET NUMBER

S201

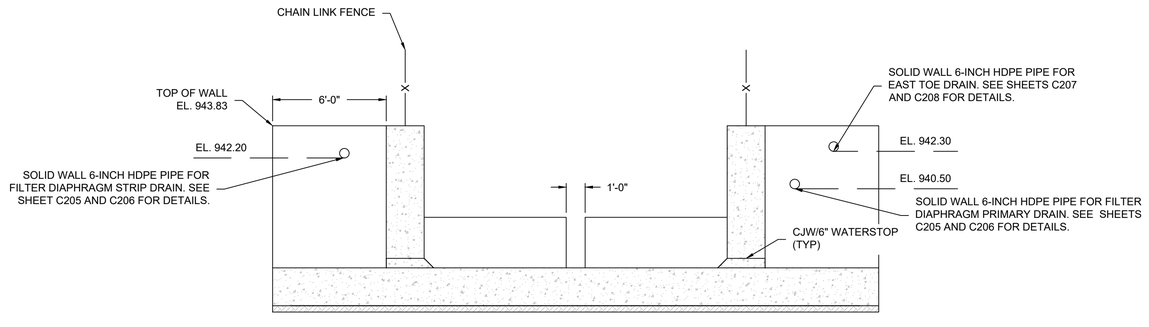
SHEET 24 OF 47



B S201 **SECTION**
Scale 1/4"=1'



C S201 **SECTION**
Scale 1/4"=1'



D S201 **SECTION**
Scale 1/4"=1'

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE ____ BY

ISSUED FOR CONSTRUCTION ____ DATE ____ BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

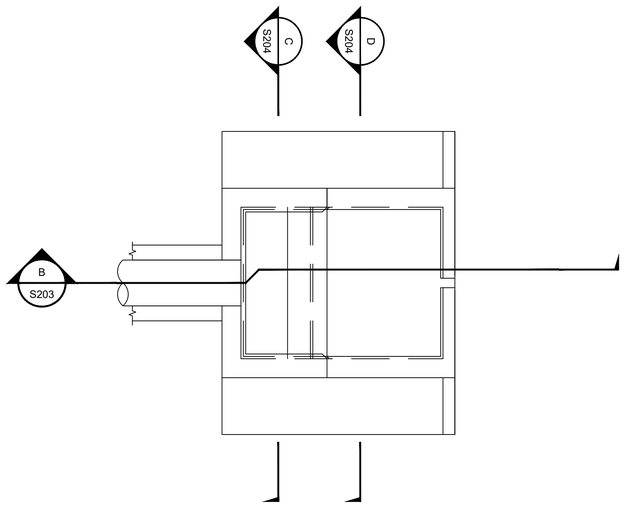
DRAWING TITLE

IMPACT BASIN
DETAILS (2 OF 2)

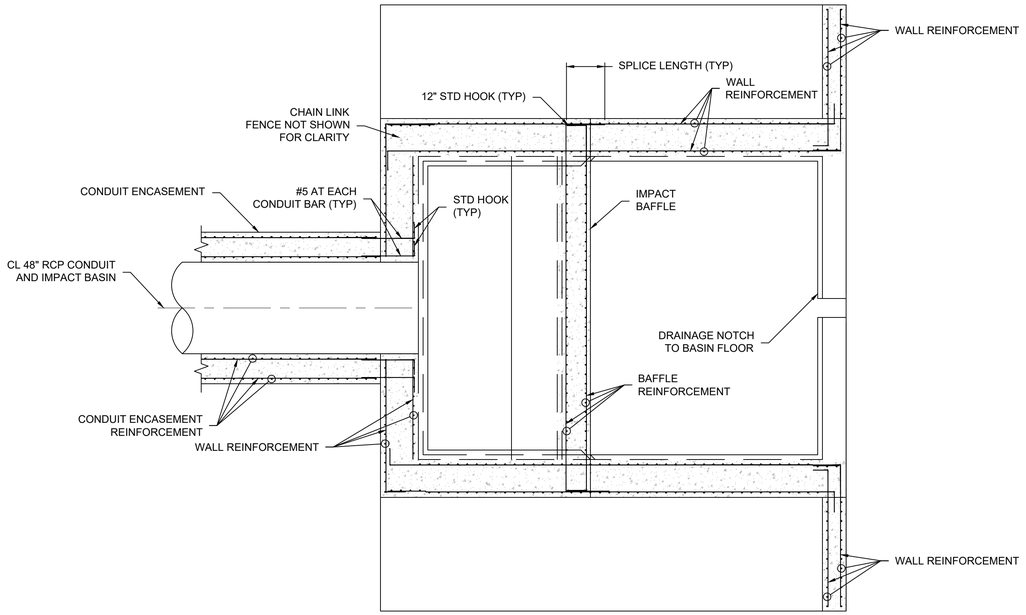
SHEET NUMBER

S202

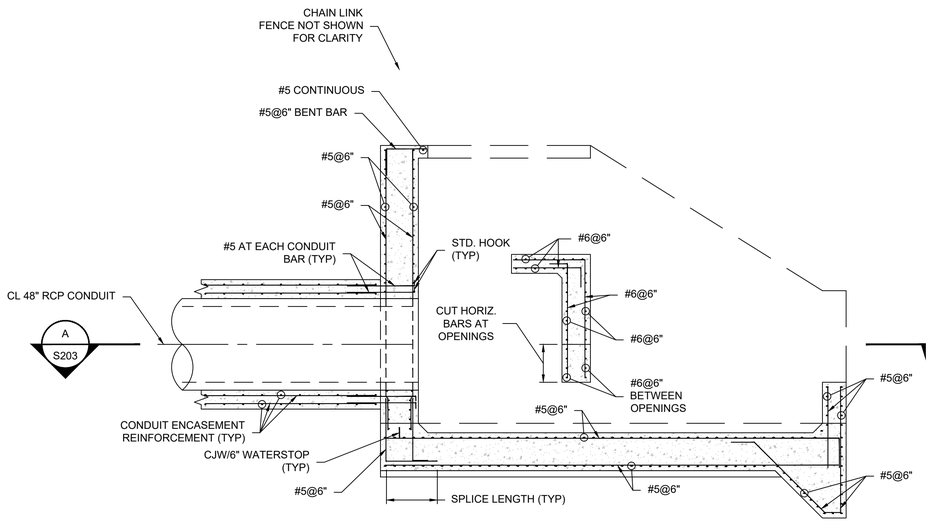
SHEET 25 OF 47



IMPACT BASIN KEY PLAN
Scale 1/4"=1'



A S203 **SECTION**
Scale 1/4"=1'



B S203 **SECTION**
Scale 1/4"=1'

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

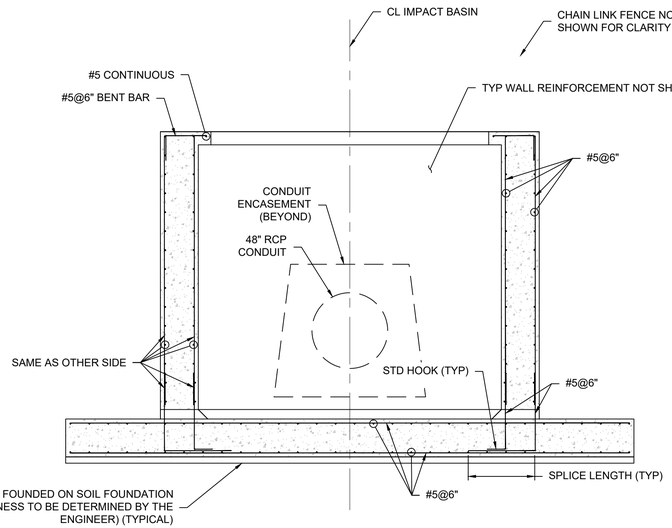
DRAWING TITLE

IMPACT BASIN
REINFORCEMENT (1 OF 2)

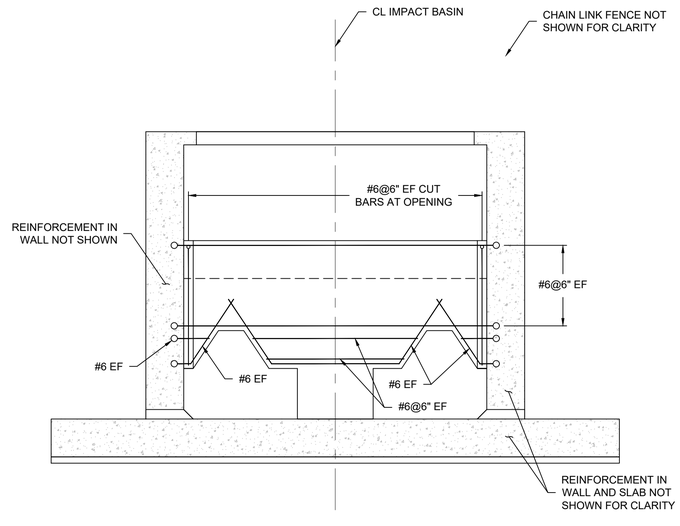
SHEET NUMBER

S203

SHEET 26 OF 47



C SECTION
S203 Scale 1/4"=1'



D SECTION
S203 Scale 1/4"=1'

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

IMPACT BASIN
REINFORCEMENT (2 OF 2)

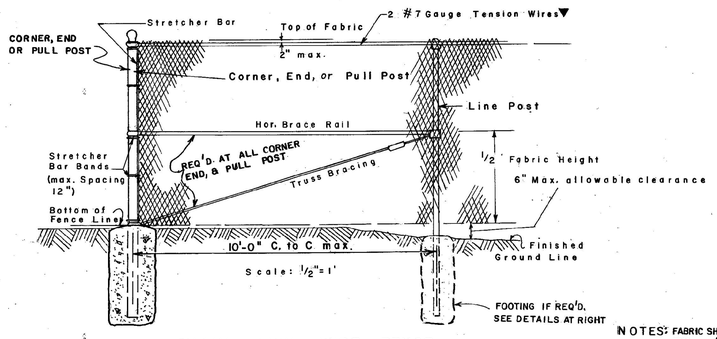
SHEET NUMBER

S204

SHEET 27 OF 47

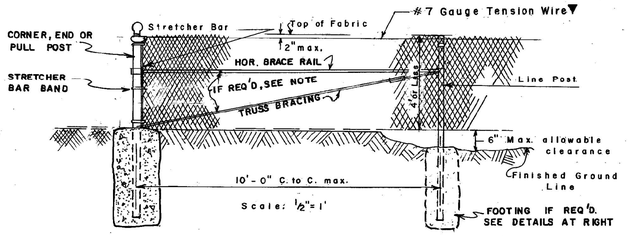
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DETAILS OF CHAIN-LINK WIRE FENCE

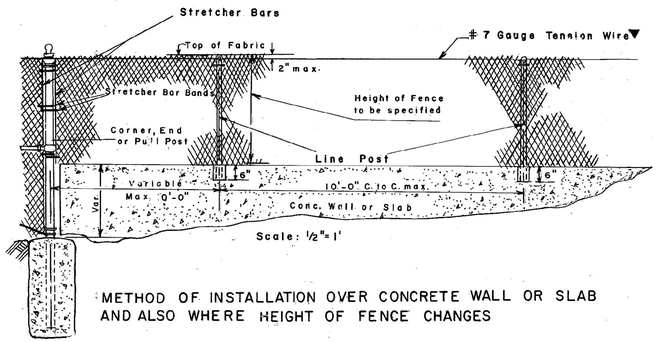


CHAIN LINK WIRE FENCE
(OVER 4 FT HEIGHT)

CONCRETE FOOTINGS ARE REQUIRED AT ALL CORNERS, END AND PULL POST

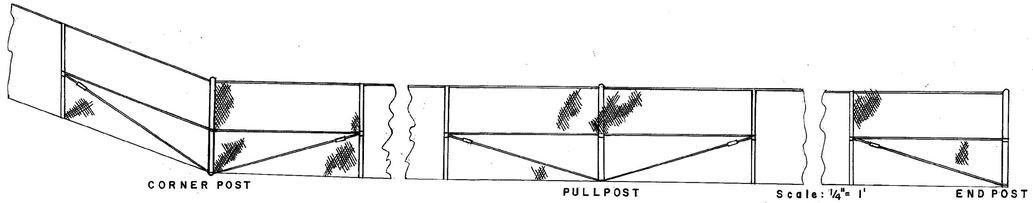


CHAIN LINK WIRE FENCE
(4 FT. OR LESS HEIGHT)

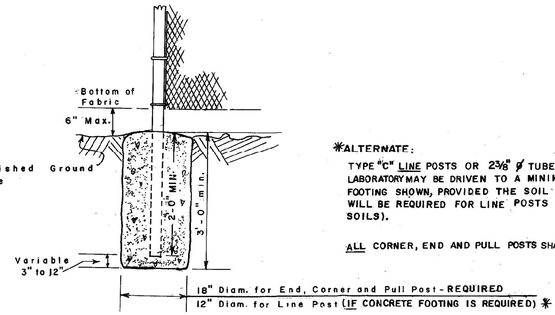


METHOD OF INSTALLATION OVER CONCRETE WALL OR SLAB AND ALSO WHERE HEIGHT OF FENCE CHANGES

NOTES:
- FABRIC SHALL BE FASTENED TO LINE POST AT INTERVALS NOT GREATER THAN 14".
- TENSION WIRES SHALL BE TIED TO FABRIC WITH 9 GA. WIRE OR 11 GA. HOG RINGS AT 24" C. TO C. MAX. SPACINGS.
- ▼ WHERE A PROPERTY OWNERS CHAIN LINK WIRE FENCE HAS TO BE REPLACED BY THE DEPARTMENT AS PART OF THE CONSTRUCTION PROJECT, AND THE EXISTING FENCE HAD A TOP RAIL, THEN THE NEW REPLACEMENT FENCE SHALL ALSO HAVE A SIMILAR TYPE RAIL INSTEAD OF TENSION WIRES AT THE TOP OF THE FENCE.
- HORIZONTAL BRACE RAILS & TRUSS BRACING SHALL BE REQUIRED AT ALL CORNER, END AND PULL POSTS, EXCEPT WHERE A CONTINUOUS TOP RAIL IS SPECIFIED (SEE NOTE ABOVE) WITH A FENCE 4 FT. OR LESS IN HEIGHT.



METHOD OF BRACING END, CORNER AND PULL POST



FOOTING DETAIL FOR FENCE POSTS

*ALTERNATE:
TYPE "C" LINE POSTS OR 2 3/8" ϕ TUBE LINE POSTS OR OTHER TYPE LINE POSTS APPROVED BY THE D.O.T. LABORATORY MAY BE DRIVEN TO A MINIMUM DEPTH OF THREE (3) FEET INSTEAD OF THE CONCRETE FOOTING SHOWN, PROVIDED THE SOIL IS EITHER CLASS I, II, III, OR V SOIL. CONCRETE FOOTINGS WILL BE REQUIRED FOR LINE POSTS INSTALLED IN MARSHY OR SWAMPY AREAS (CLASS IV SOILS).

ALL CORNER, END AND PULL POSTS SHALL HAVE CONCRETE FOOTINGS AS SHOWN.

REV. & ADDED NOTES	8-15-85	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		STANDARD	
		CHAIN LINK WIRE FENCE	
		SCALE AS SHOWN	REV. & REAR. JUNE, 1981
R.M.U.	DES. 4-62 REV. RMU RETR. GME CHK RKC	(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR. (APPROVED) STATE HIGHWAY ENGINEER	NUMBER 9031N

FORM E 23

1 S205 GEORGIA DOT CHAIN LINK WIRE FENCE DETAIL

AECOM

PROJECT
LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT
CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT
AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION
GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

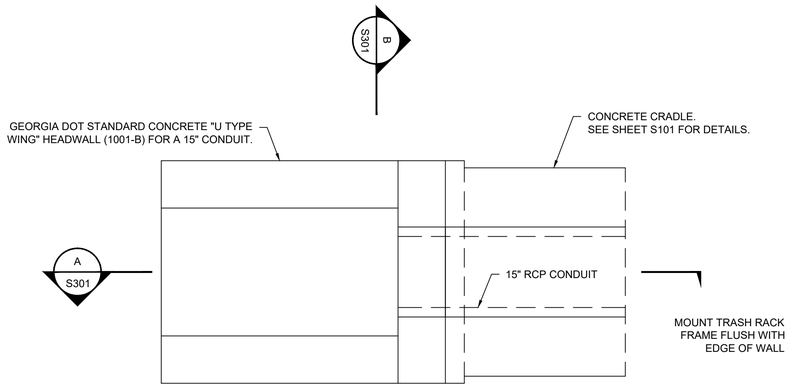
REVISIONS

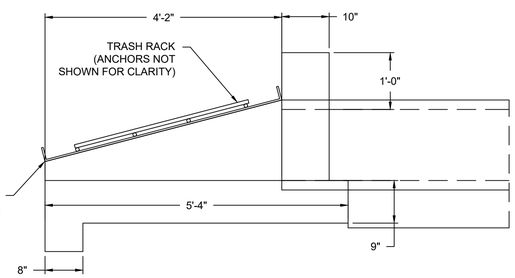
NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

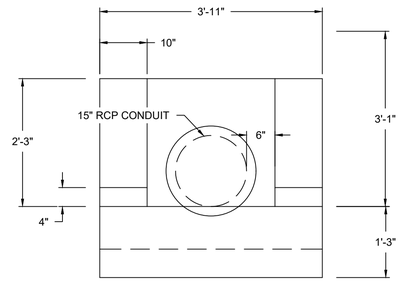
DRAWING TITLE
GEORGIA DOT CHAIN LINK FENCE DETAILS

SHEET NUMBER
S205
SHEET 28 OF 47





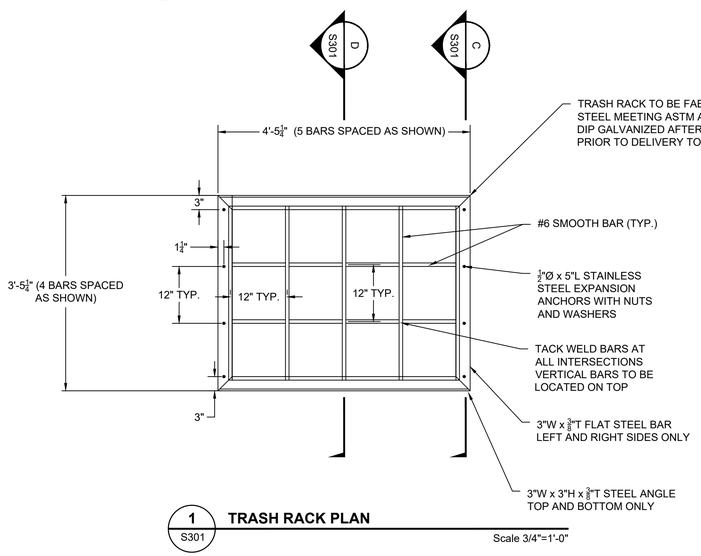
A S301 SECTION Scale 3/4"=1'-0"



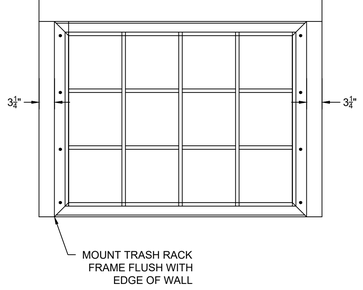
B S301 SECTION Scale 3/4"=1'-0"

LOW LEVEL OUTLET HEADWALL (HW-1) KEY PLAN

Scale 3/4"=1"

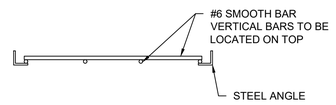


1 S301 TRASH RACK PLAN Scale 3/4"=1'-0"



2 S301 TRASH RACK MOUNTING DETAIL - TOP VIEW Scale 3/4"=1'-0"

C S301 SECTION Scale 3/4"=1'-0"



D S301 SECTION Scale 3/4"=1'-0"

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

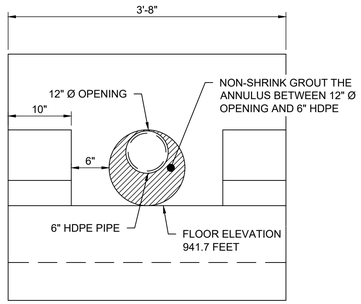
DRAWING TITLE

LOW LEVEL OUTLET HEADWALL DETAILS

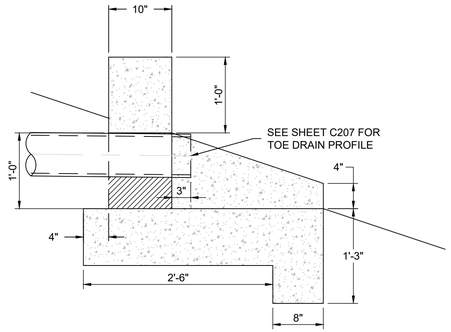
SHEET NUMBER

S301

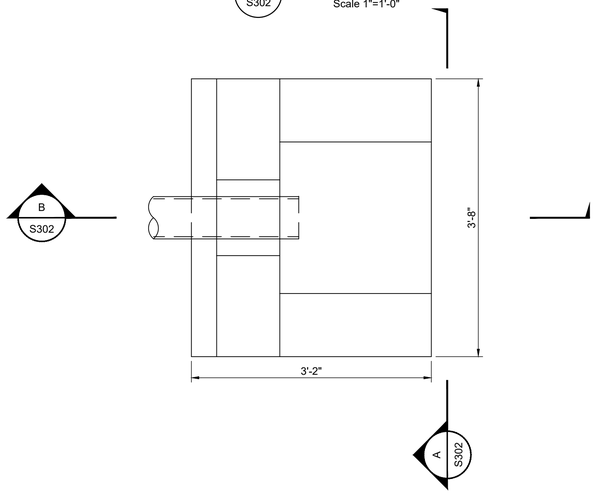
SHEET 29 OF 47



A S302 **SECTION**
Scale 1"=1'-0"



B S302 **SECTION**
Scale 1"=1'-0"



WEST TOE DRAIN HEADWALL (HW-2) PLAN
Scale 1"=1'-0"

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

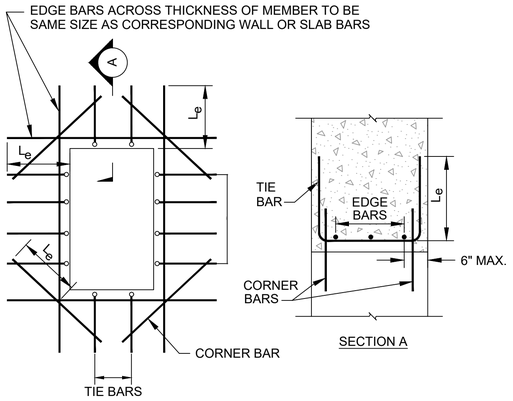
AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

WEST TOE DRAIN
HEADWALL DETAILS

SHEET NUMBER

S302

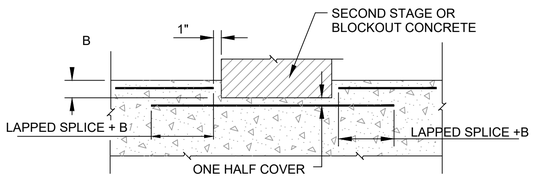


SECTION A

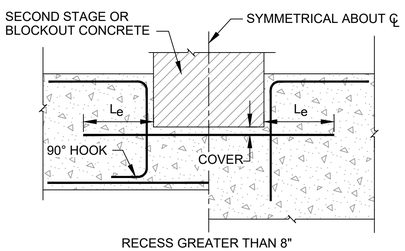
TABLE FOR REINFORCEMENT AROUND OPENINGS			
MEMBER THICKNESS	TIE BAR	EDGE BARS	CORNER BARS
LESS THAN 10"	NONE	1-CTR.	1-#4 CTR.
10" THRU 1'-6"	NONE	2-(1-EF)	2-#4 (1EF)
1'-7" THRU 3'-0"	#4 @1'-0"	3-EQ. SPC.	2-#6 (1EF)
OVER 3'-0"	#6 @1'-0"	SPC.@1'-0"	2-#8 (1EF)

1. OMIT EDGE BARS AND TIE BARS ALONG SIDES OF OPENINGS WHERE DIMENSION IS LESS THAN 18".
2. OMIT CORNER BARS AT SIDES OF OPENINGS ADJACENT TO FLOORS, WALLS, OR BEAMS.
3. CORNER BARS REQUIRED IF EITHER DIMENSION OF OPENING IS GREATER THAN 18".
4. USE CORNER BARS IN FACE OF RECESSES DEEPER THAN 4" IF EITHER DIMENSION OF RECESS IS GREATER THAN 18".

ADDITIONAL REINFORCEMENT AROUND OPENINGS



RECESS 3" TO 8" DEEP

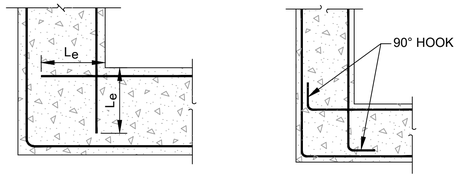


RECESS GREATER THAN 8"

TYPICAL BLOCKOUT RECESS OR OFFSET DETAILS

GENERAL NOTE

1. UNLESS OTHERWISE SHOWN ON THE REINFORCEMENT DESIGN DRAWINGS, THE DETAILS AND NOTES SHOWN ON THIS DRAWING ARE TYPICAL FOR ALL REINFORCEMENT DRAWINGS.



TYPICAL CORNER DETAILS

ABBREVIATIONS

BF = BOTTOM FACE
TF = TOP FACE
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
IF = INSIDE FACE
OF = OUTSIDE FACE
CJ = CONSTRUCTION JOINT
OCJ = OPTIONAL CONSTRUCTION JOINT
CTJ = CONTROL JOINT
SPC. = SPACE OR SPACES
STD = STANDARD
EQ. SPC. = EQUALLY SPACED, EQUAL SPACES
UV = UNIFORMLY VARYING LENGTHS OF BARS BETWEEN LENGTHS SHOWN
CRJ = CONTRACTION JOINT
EJ = EXPANSION JOINT
BR = BOTTOM ROW
TR = TOP ROW
NR = NEAR ROW
FR = FAR ROW
ER = EACH ROW
IR = INSIDE ROW
OR = OUTSIDE ROW
MR = MIDDLE ROW
D = NOMINAL DIAMETER OF REINFORCING BAR
CL. = CLEAR
BL = BOTTOM LAYER
TL = TOP LAYER
ML = MIDDLE LAYER
NS = NEAR SIDE
FS = FAR SIDE
ES = EACH SIDE
EW = EACH WAY
EC = EACH CORNER
Le = EMBEDMENT LENGTH
d_b = NOMINAL DIAMETER OF REINFORCING BAR
CTR. = CENTER OR CENTERS
WS = WATERSTOP

SYMBOLS

○——— AN OPEN CIRCLE AT THE END OF A BAR INDICATES A BEND WITH THE BAR TURNED AWAY FROM THE OBSERVER.

●——— A CLOSED CIRCLE AT THE END OF A BAR INDICATES A BEND WITH THE BAR TURNED TOWARDS THE OBSERVER.

SPLICES SHOWN THUS ═╲═ INDICATE A LAPPED SPLICE, NOT A BEND IN THE BAR.

DIMENSIONS

DIMENSIONS ARE TO THE CENTERLINE OF THE BARS UNLESS OTHERWISE SHOWN. CLEAR COVER DIMENSIONS ARE MARKED "CL".

COVER

PLACE THE REINFORCEMENT SO THAT THE CLEAR DISTANCE BETWEEN FACE OF CONCRETE AND NEAREST REINFORCEMENT IS 1 1/2" FOR #5 BARS AND SMALLER, 2" FOR #6 BARS AND LARGER. PROVIDE 3" CLEAR DISTANCE FROM FACE OF CONCRETE FOR ALL BARS WHEN THE CONCRETE IS PLACED AGAINST EARTH OR ROCK. CLEAR DISTANCE IS THE DESIGN DIMENSION LINE. REINFORCEMENT PARALLELING CONSTRUCTION JOINTS SHALL HAVE A MINIMUM OF 2" CLEAR COVER.

BENT BARS:

UNLESS OTHER RADIUS BENDS ARE INDICATED ON THE DRAWINGS, ALL REINFORCEMENT REQUIRING BENDING SHALL BE BENT AROUND A PIN HAVING THE FOLLOWING DIAMETER:

TABLE 1
PIN DIAMETER IN INCHES

BAR NO.	3	4	5	6	7	8	9	10	11
STANDARD BENDS	2 1/4	3	3 3/4	4 1/2	5 1/4	6	9 1/2	10 3/4	12
STIRRUP AND TIE BENDS	1 1/2	2	2 1/2	4 1/2	5 1/4	6	-	-	-

REINFORCEMENT DOWELS:

DOWELS INDICATED ON THE DRAWING, SUCH AS #8 (d), SHALL BE EMBEDDED A LENGTH EQUAL TO Le AND SHALL HAVE A PROJECTION EQUAL TO THAT REQUIRED FOR TOP SPLICING TO A BAR OF THE SAME DIAMETER.

PLAIN DOWELS:

PLAIN DOWELS ACROSS CONTRACTION JOINTS SHALL BE SMOOTH BARS UNIFORMLY COATED WITH A FILM OF OIL BEFORE CONCRETE PLACEMENT. VISCOSITY OF THE OIL SHALL HAVE A SAE RATING OF NOT LESS THAN 250.

ACCESSORIES:

BAR SUPPORTS, SPACERS, AND OTHER ACCESSORIES ARE NOT SHOWN ON THE DRAWINGS. THE RECOMMENDATIONS OF THE VACANT ACI DETAILING MANUAL OR OTHER APPROVED SUPPORTING SYSTEM MAY BE USED.

REFERENCE CODE:

UNLESS OTHERWISE SHOWN FOLLOW THE RECOMMENDATIONS ESTABLISHED BY THE AMERICAN CONCRETE INSTITUTE'S "MANUAL OF STANDARD PRACTICE"

NOTES TO DETAILERS:

SPLICE LENGTHS SHOWN IN THE TABLES ON THIS DRAWING ARE FOR CLASS B SPLICES IN ACCORDANCE WITH ACI 350-20. SPLICES OR DEVELOPMENT LENGTHS OTHER THAN THOSE SHOWN IN THE TABLES MUST BE DETAILED ON THE REINFORCEMENT DESIGN DRAWINGS.

SPLICES:

THE MINIMUM LENGTH OF LAP FOR SPLICING PARALLEL BARS SHALL BE GIVEN IN THE APPLICABLE TABLE (TABLE 2). SPLICES SHALL BE STAGGERED TO GIVE 12 INCHES CLEAR BETWEEN ENDS OF ADJACENT SPLICES. BARS SPLICED BY NONCONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH, NOR 6 IN. WHEN REINFORCING BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE LENGTHS OF LAP SHALL BE GOVERNED BY THE SMALLER DIAMETER BAR. SPLICES ARE TO BE MADE SO THAT THE REQUIRED CLEAR DISTANCES TO FACE OF CONCRETE CONCRETE WILL BE MAINTAINED.

PLACING:

REINFORCEMENT AT SMALL OPENINGS (MAX. 1'-5") IN WALLS AND SLABS MAY BE SPREAD APART NOT MORE THAN 1.5 TIMES THE BAR SPACING. REINFORCEMENT MAY BE ADJUSTED LATERALLY TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1" BETWEEN THE REINFORCEMENT AND KEYS, WATERSTOPS, ANCHOR BOLTS, FORM TIES, CONDUITS AND OTHER EMBEDDED MATERIALS. IN HEAVILY REINFORCED AREAS, RELOCATION OF THE EMBEDDED MATERIAL MUST BE CONSIDERED. WHEN BARS ARE BENT DUE TO OFFSETS LESS THAN 3" DEEP, THE SLOPE OF THE INCLINED PORTION MUST NOT EXCEED 6 TO 1. REINFORCEMENT PARALLEL TO ANCHOR BOLTS OR OTHER EMBEDDED MATERIAL SHALL BE PLACED TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1.33 TIMES THE MAXIMUM SIZE AGGREGATES.

SPACING:

THE FIRST AND LAST BARS IN WALLS AND SLABS, STIRRUPS IN BEAMS, AND TIES IN COLUMNS ARE TO START AND END AT A MAXIMUM OF ONE HALF OF THE ADJACENT BAR SPACING. A MINIMUM OF 2.5d CLEAR FROM THE EDGE IS REQUIRED FOR #9, #10, AND #11 BARS IF SPLICE LENGTHS OR REDUCED DEVELOPMENT LENGTHS GIVEN IN TABLE 2 ARE TO BE USED.

STANDARD HOOKS:

HOOKS SHALL HAVE 180° BENDS AND EXTENSIONS OF 4-BAR DIAMETERS BUT NOT LESS THAN 2 1/2" PARALLEL TO THE MAIN LEG OF THE BAR, OR 90° BENDS AND EXTENSIONS OF AT LEAST 12-BAR DIAMETERS. HOOKS FOR STIRRUP AND TIE ANCHORAGE ONLY SHALL HAVE EITHER A 90° OR 135° BEND PLUS AN EXTENSION OF AT LEAST 6-BAR DIAMETERS BUT NOT LESS THAN 2 1/2" AT THE FREE END OF THE BAR. RADIUS OF BEND TO BE AS SPECIFIED IN THE TABLE OF PIN DIAMETERS.

f'_c=5000 psi — TABLE 2 — f_y=60,000 psi

BAR SIZE #	EMBEDMENT LENGTH, Le		CLASS B SPLICE LENGTH	
	OTHER BARS (INCHES)	TOP BAR* (INCHES)	OTHER BARS (INCHES)	TOP BAR* (INCHES)
3	12	12	12	13
4	12	13	13	17
5	13	17	17	22
6	15	20	20	26
7	24	32	32	41
8	32	41	41	54
9	40	53	53	68
10	51	67	67	87
11	63	82	82	107

* TOP BARS ARE HORIZONTAL BARS IN BEAMS AND SLABS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

TABLE 2 NOTE:

1. THESE LENGTHS ARE BASED ON THE PROVISIONS OF ACI 350-20, CHAPTER 12 ASSUMING UNCOATED REINFORCEMENT, NORMAL WEIGHT CONCRETE, CONCRETE COVER CONSISTENT WITH THE REQUIREMENTS OF THIS DRAWING, AND A MINIMUM CLEAR BAR SPACING OF 2 D . CONDITIONS THAT ARE DIFFERENT FROM THOSE ASSUMED REQUIRE LONGER LAP LENGTHS CONSISTENT WITH ACI 350.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE ____ BY

ISSUED FOR CONSTRUCTION ____ DATE ____ BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

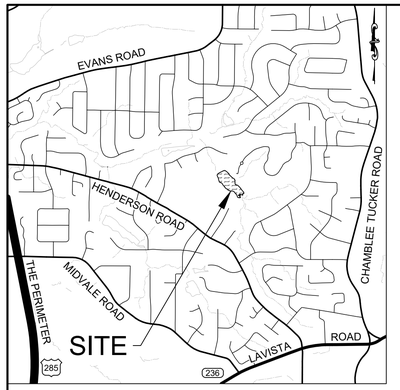
STRUCTURAL NOTES

SHEET NUMBER

S401

SHEET 31 OF 47

ANSI D 22" x 34"



VICINITY MAP

Scale: 1" = 2000'

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

ENVIRONMENTAL LINE TYPE LEGEND

- WL — WETLAND BOUNDARY (AS SURVEYED IN THE FIELD)
- WUS — WATERS OF THE US / STATE WATER BOUNDARY AS DETERMINED BY THE POINT OF WRESTED VEGETATION (SURVEYED IN THE FIELD)
- WB — 25' STATE WATER BUFFER
- SB — 25' STREAM BUFFER

GPS LOCATION OF CONSTRUCTION EXIT

LATITUDE	LONGITUDE
33°52'02.3"N	- 84°13'43.3"W

0 100' 200'
SCALE:1"=100'

LAST SAVED BY: WEISA (2024-09-13) LAST PLOTTED: 2024-09-18
FILENAME: I:\DCS\PROJECTS\WTR\60727041_LAKEERINDAMENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PES-C301-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

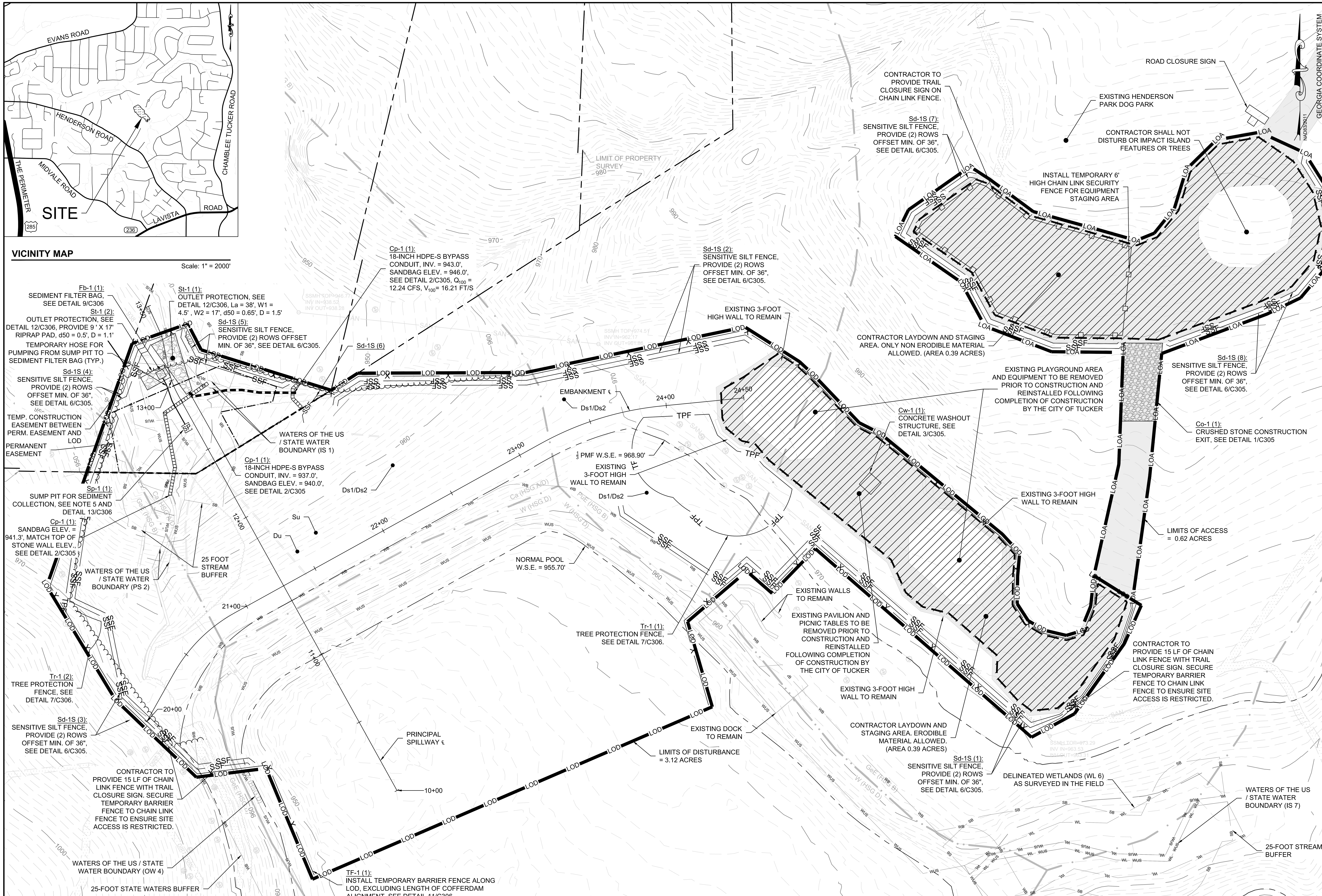
DRAWING TITLE

CONSTRUCTION ACCESS AND STAGING PLAN

SHEET NUMBER

C301

SHEET 32 OF 47



EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY ______

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

NOTES:

1. CONTRACTOR TO PROVIDE SAME-DAY STABILIZATION MEASURES FOR ALL CLEARING AND GRUBBING ACTIVITIES THAT ALLOW DISTURBED AREAS TO BE EXPOSED TO EROSIVE FORCES.
2. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING, SEE Ds-2 DETAIL 15/C307.
3. CONTRACTOR TO PROVIDE TURFGRASS SEED WITH STABILIZATION MATTING FOR PERMANENT STABILIZATION OF ALL DISTURBED AREA AS SHOWN ON SHEET C401, SEE Ds-3 DETAIL 18/C307.
4. TEMPORARY BARRIER FENCE TF-1 IS TO BE PLACED ALONG THE LIMITS OF DISTURBANCE AND IS SHOWN ON THE PLANS AT A 2' OFFSET FROM THE LIMITS OF DISTURBANCE FOR VISUAL CLARITY.
5. SUMP PIT FOR SEDIMENT COLLECTION TO BE FIELD LOCATED BY CONTRACTOR AND ADJUSTED AS NEEDED TO FACILITATE DEWATERING OF THE WORK AREA, SEE DETAIL 13/C306.

0 30' 60'
SCALE:1"=30'

ANSI D 22" x 34"

LAST SAVED BY: WEISA(2024-09-18) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERINDAMENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PES-C302-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI
GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING ______ DATE BY

ISSUED FOR CONSTRUCTION ______ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

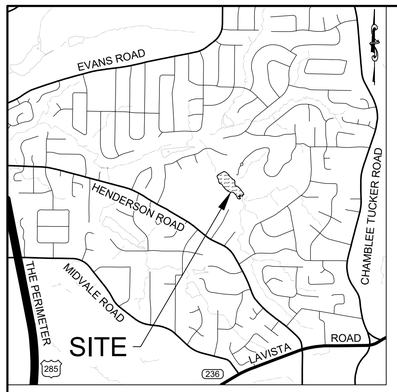
DRAWING TITLE

EROSION AND SEDIMENT CONTROL INITIAL PHASE (1) PLAN

SHEET NUMBER

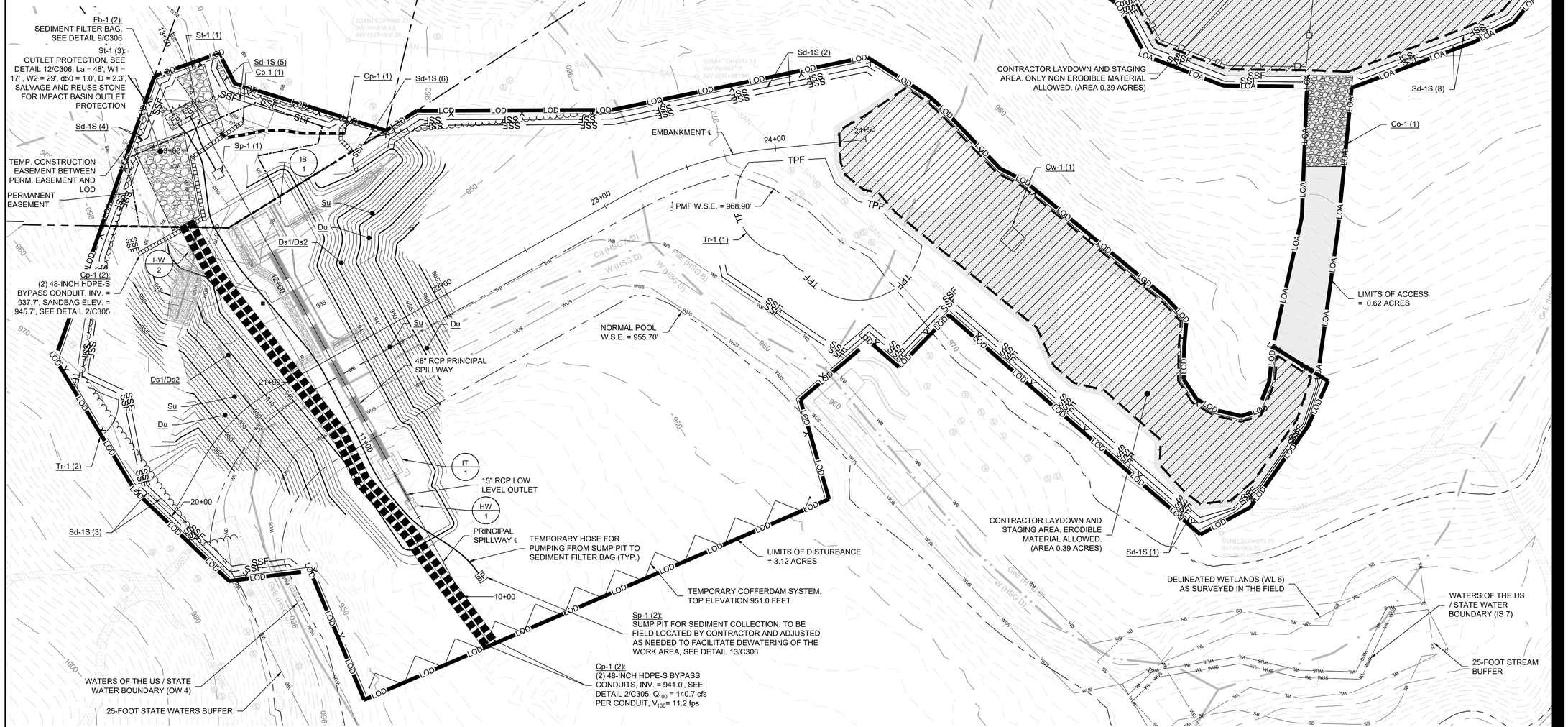
C302

ANSI D 22" x 34"



VICINITY MAP

Scale: 1" = 2000'



EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

NOTES:
1. CONTRACTOR TO PROVIDE SAME-DAY STABILIZATION MEASURES FOR ACTIVITIES THAT ALLOW DISTURBED AREAS TO BE EXPOSED TO EROSIVE FORCES.
2. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING, SEE Ds-2 DETAIL 15/C307.
3. CONTRACTOR TO PROVIDE TURFGRASS SEED WITH STABILIZATION MATTING FOR PERMANENT STABILIZATION OF ALL DISTURBED AREA AS SHOWN ON SHEET C401, SEE Ds-3 DETAIL 18/C307.
4. TEMPORARY BARRIER FENCE TF-1 IS TO BE PLACED ALONG THE LIMITS OF DISTURBANCE AND IS SHOWN ON THE PLANS AT A 2' OFFSET FROM THE LIMITS OF DISTURBANCE FOR VISUAL CLARITY.

LAST SAVED BY: WEISA (2024-09-18) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERIN\DAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PES-C302-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

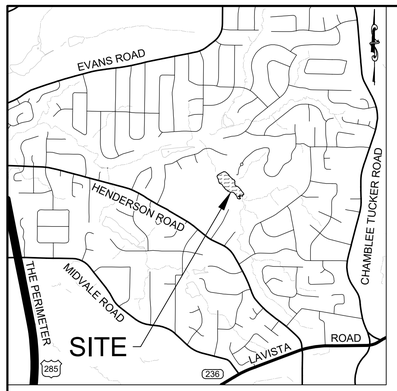
EROSION AND SEDIMENT CONTROL INTERMEDIATE PHASE (2) PLAN

SHEET NUMBER

C303

SHEET 34 OF 47

ANSI D 22" x 34"



VICINITY MAP

Scale: 1" = 2000'

LIMIT OF PROPERTY SURVEY

ROAD CLOSURE SIGN

EXISTING HENDERSON PARK DOG PARK

CONTRACTOR SHALL NOT DISTURB OR IMPACT ISLAND FEATURES OR TREES

GEORGIA COORDINATE SYSTEM NAD83(2011)

Sd-1S (7)

Sd-1S (8)

Co-1 (1)

CONTRACTOR LAYDOWN AND STAGING AREA. ONLY NON ERODIBLE MATERIAL ALLOWED. (AREA 0.39 ACRES)

LIMITS OF ACCESS = 0.62 ACRES

Sd-1S (9): SENSITIVE SILT FENCE, PROVIDE (2) ROWS OFFSET MIN. OF 36", SEE DETAIL 6/C305.

St-1 (1)

Fb-1 (2)

STONE FROM St-1 (3) SALVAGED AND REUSED FOR IMPACT BASIN OUTLET PROTECTION

Sd-1S (5)

Cp-1 (1)

Cp-1 (1)

Sd-1S (6)

Sd-1S (2)

Sd-1S (4)

TEMP. CONSTRUCTION EASEMENT BETWEEN PERM. EASEMENT AND LOD

PERMANENT EASEMENT

Sp-1 (1)

EMBANKMENT ℄

24+00

24+50

25+00

22+00

21+00

20+00

TPF

PMF W.S.E. = 968.90'

Tr-1 (1)

Cw-1 (1)

Cp-1 (3): SANDBAG ELEV. = 941.5', PMF W.S.E. = 940.2', SEE DETAIL 2/C305

HW 2

IB 1

Du

Ds3/Ds4

NORMAL POOL W.S.E. = 955.70'

48" RCP PRINCIPAL SPILLWAY

IT 1

Tr-1 (2)

Sd-1S (3)

Cp-1 (3): PHASE 3A: CONNECT 48-INCH HDPE-S BYPASS CONDUIT TO THE INTAKE TOWER STRUCTURE AT LOW LEVEL OUTLET

15" RCP LOW LEVEL OUTLET

Cp-1 (4): PHASE 3B: CONNECT 15-INCH HDPE-S BYPASS CONDUIT TO THE HEADWALL OF THE LOW LEVEL OUTLET CONDUIT

HW 1

PRINCIPAL SPILLWAY ℄

10+00

LIMITS OF DISTURBANCE = 3.12 ACRES

Cp-1 (4): PHASE 3B: (1) 15-INCH HDPE-S BYPASS CONDUIT, INV. = 941.0', SEE DETAIL 2/C305, Q_{25} = 26.2 cfs, V_{25}= 2.1 ft/s

Cp-1 (3): PHASE 3A: (1) 48-INCH HDPE-S BYPASS CONDUIT, INV. = 941.0', SEE DETAIL 2/C305, Q_{50} = 144.1 cfs, V_{50}=11.5 ft/s

CONTRACTOR LAYDOWN AND STAGING AREA. ERODIBLE MATERIAL ALLOWED. (AREA 0.39 ACRES)

Sd-1S (1)

DELINEATED WETLANDS (WL 6) AS SURVEYED IN THE FIELD

WATERS OF THE US / STATE WATER BOUNDARY (IS 7)

25-FOOT STREAM BUFFER

WATERS OF THE US / STATE WATER BOUNDARY (OW 4)

25-FOOT STATE WATERS BUFFER

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

NOTES:

1. CONTRACTOR TO PROVIDE SAME-DAY STABILIZATION MEASURES FOR ACTIVITIES THAT ALLOW DISTURBED AREAS TO BE EXPOSED TO EROSIVE FORCES.
2. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING, SEE Ds-2 DETAIL 15/C307.
3. CONTRACTOR TO PROVIDE TURFGRASS SEED WITH STABILIZATION MATTING FOR PERMANENT STABILIZATION OF ALL DISTURBED AREA AS SHOWN ON SHEET C401, SEE Ds-3 DETAIL 18/C307.
4. TEMPORARY BARRIER FENCE TF-1 IS TO BE PLACED ALONG THE LIMITS OF DISTURBANCE AND IS SHOWN ON THE PLANS AT A 2' OFFSET FROM THE LIMITS OF DISTURBANCE FOR VISUAL CLARITY.
5. THE EROSION AND SEDIMENT CONTROL FINAL PHASE (4) IS SHOWN ON SHEET C401.

0 30' 60'
SCALE:1"=30'

LAST SAVED BY: WEISA (2024-09-18) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERIN\DAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PES-C302-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL INTERMEDIATE PHASE (3) PLAN

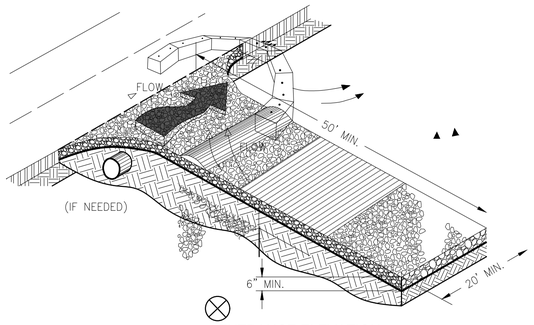
SHEET NUMBER

C304

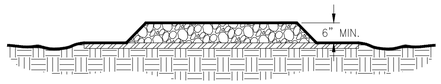
SHEET 35 OF 47

1 CONSTRUCTION EXIT
C305 — Scale: N.T.S. — Co-1

EXIT DIAGRAM

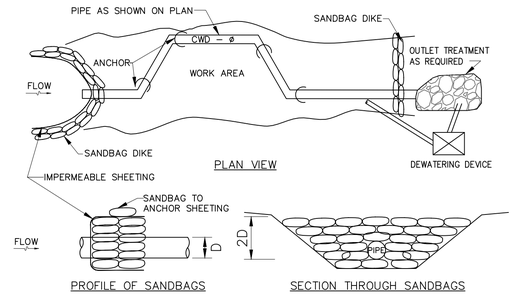


ENTRANCE ELEVATION



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

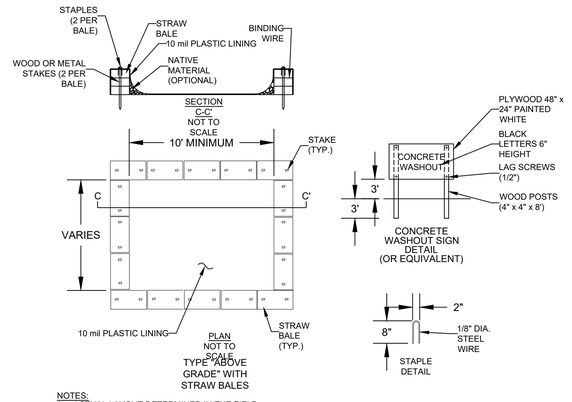
2 CLEAR WATER DIVERSION PIPE DETAIL
C305 — Scale: N.T.S. — Cp-1



CONSTRUCTION SPECIFICATIONS

1. FLEXIBLE PIPE IS PREFERRED. HOWEVER, CORRUGATED METAL PIPE OR EQUIVALENT PVC PIPE CAN BE USED. MAKE ALL JOINTS WATERTIGHT.
2. FOR SANDBAGS USE MATERIALS THAT ARE RESISTANT TO ULTRA-VIOLENT RADIATION, TEARING, AND PUNCTURE AND WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL.
3. USE 10 MIL OR THICKER, UV RESISTANT, IMPERMEABLE SHEETING OR OTHER APPROVED MATERIAL THAT IS IMPERMEABLE AND RESISTANT TO PUNTURING AND TEARING.
4. PLACE IMPERMEABLE SHEETING SUCH THAT UPGRADE PORTION OVERLAPS DOWNGRADE PORTION BY A MINIMUM OF 18 INCHES.
5. SET HEIGHT OF SANDBAG DIKE AT TWICE THE PIPE DIAMETER. MAINTAIN HEIGHT ALONG LENGTH OF SANDBAG DIKE. PLACE DOUBLE ROW OF SANDBAGS.
6. AT A MINIMUM, SECURELY ANCHOR DIVERSION PIPE AT EACH DOWNGRADE JOINT.
7. SET OUTLET END OF DIVERSION PIPE LOWER THAN INLET END.
8. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
9. DEWATER WORK AREA USING AN APPROVED EROSION AND SEDIMENT CONTROL PRACTICE AS SPECIFIED ON APPROVED PLAN.
10. KEEP POINT OF DISCHARGE FREE OF EROSION. MAINTAIN WATER TIGHT CONNECTIONS AND POSITIVE DRAINAGE. REPLACE SANDBAGS AND IMPERMEABLE SHEETING IF TORN.

3 CONCRETE WASHOUT DETAIL
C305 — Scale: N.T.S. — Cw-1



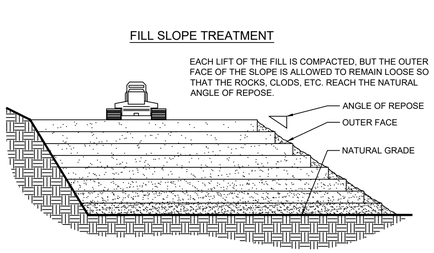
NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.

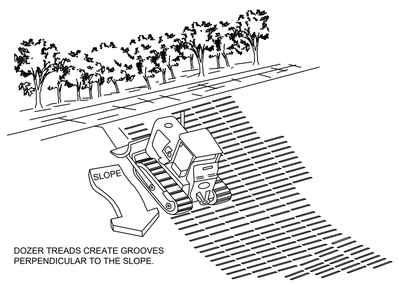
HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

4 SURFACE ROUGHENING DETAIL
C305 — Scale: N.T.S. — Su

FILL SLOPE TREATMENT

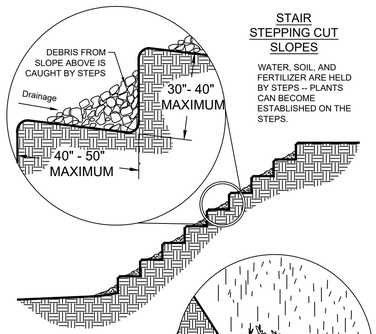


TRACKING

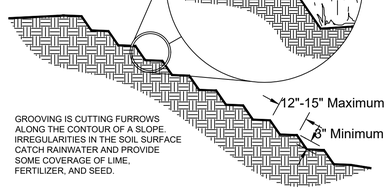


STAIR STEPPING CUT SLOPES

WATER, SOIL, AND FERTILIZER ARE HELD BY STEPS -- PLANTS CAN BECOME ESTABLISHED ON THE STEPS.



GROOVING SLOPES



GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND PROVIDE SOME COVERAGE OF LIME, FERTILIZER, AND SEED.

EROSION CONTROL CERTIFICATION

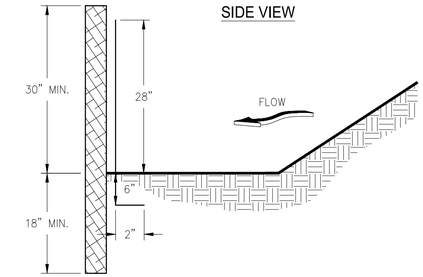
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

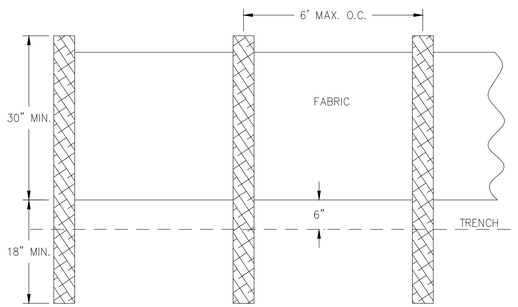
MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

5 SILT FENCE - TYPE NON-SENSITIVE DETAIL
C305 — Scale: N.T.S. — Sd-1NS

SIDE VIEW



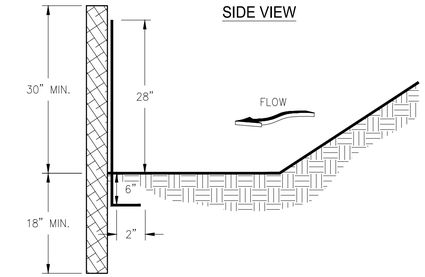
FRONT VIEW



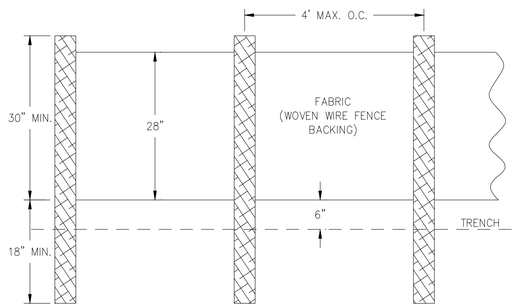
NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

6 SILT FENCE - TYPE SENSITIVE DETAIL
C305 — Scale: N.T.S. — Sd-1S

SIDE VIEW



FRONT VIEW



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL DETAILS (1 OF 4)

SHEET NUMBER

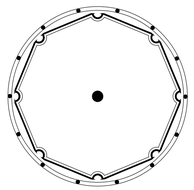
C305

7 C306 TREE PROTECTION DETAIL — Tr-1

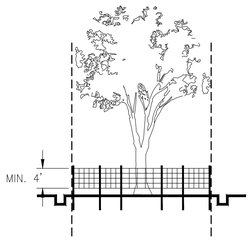
Scale: N.T.S.

"SNOW" FENCE

PLAN



CROSS-SECTION

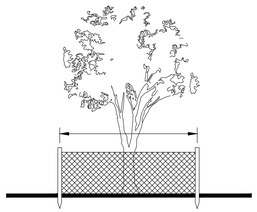


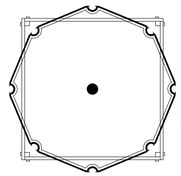
NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"–5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER–REBAR IS NOT TO BE USED FOR STAKES).
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

8 C306 TREE PROTECTION DETAIL — Tr-2

Scale: N.T.S.

CHAIN LINK FENCE DETAIL





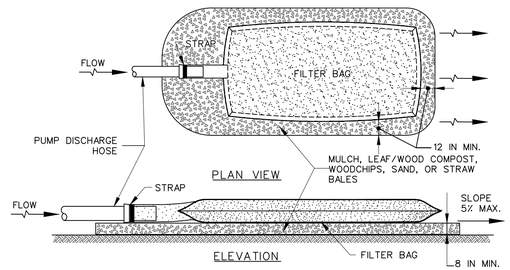
BARRIER CONSTRUCTED TO PROTECT TREE TRUNK, CROWN, AND ROOT SYSTEM FROM INJURY. BARRIERS SHALL BE LOCATED AT THE LIMITS OF THE TREE'S CRITICAL ROOT ZONE (A RADIUS OF ONE AND A HALF FEET PER INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT). BARRIER SHALL BE KEPT IN GOOD CONDITION FOR THE DURATION OF THE PROJECT AND IS TO REMAIN IN PLACE UNTIL THE NOTICE OF TERMINATION.

FOR ADDED PROTECTION

–PROVIDE 4" DEEP ORGANIC MULCH OVER ANY UNPROTECTED ROOT ZONE.
–PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

9 C306 FILTER BAG - DETAIL — Fb-1

Scale: N.T.S.



CONSTRUCTION SPECIFICATIONS

1. PLACE FILTER BAG ON #57 STONE GRAVEL BED SLOPED TO ENSURE THAT THE FILTERED WATER WILL EXIT AT THE DESIRED LOCATION. THE EXIT SHALL BE CHOSEN TO PREVENT EROSION.
2. EXTEND THE PUMP HOSE PAST THE INLET OPENING TO ENSURE THAT THE SILT LADEN WATER WILL DISCHARGE IN THE CENTER OF THE BAG. ENSURE THAT THE SEAL BETWEEN THE INLET AND HOSE IS WATER TIGHT.
3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
4. WHEN THE FILTER BAG IS FULL OF SILT AND CANNOT READILY PASS ANY MORE WATER, USE A NEW FILTER BAG. IF APPROVED BY THE ENGINEER, BURY THE FILTER BAG ON SITE OR REMOVE THE TOP SECTION OF FABRIC AND SEED THE EXPOSED FILTRATE.
5. USE NON–WOVEN GEOTEXTILE WITH ALL SEEMS SEWN WITH DOUBLE NEEDLES USING HIGH STRENGTH THREAD. THE SEEMS SHALL HAVE A MINIMUM AVERAGE WIDE–WIDTH STRENGTH OF 100LB/IN WHEN TESTING ACCORDING TO ASTM D–4884. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 6 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE CONFORMING TO THE FOLLOWING PROPERTIES:

WEIGHT	10 OZ/YD^3	ASTM D–3776
TENSILE STRENGTH	270 LB	ASTM D–4632
PUNCTURE RESISTANCE	150 LB	ASTM D–4833
INITIAL FLOW RATE	70 GAL/MIN/FT^2	ASTM D–4491
BURSTING STRENGTH	550 PSI	ASTM D–3786
PERMITIVITY (SEC^{-1})	1.3 SEC^{-1}	ASTM D–4991
UV STABILITY, 70% STRENGTH	173 LB	ASTM D–4355
AOS RETAINED	100 %	ASTM D–4751

10 C306 DISTURBED AREA STABILIZATION WITH MULCH ONLY - DETAIL

Scale N.T.S.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED.

SITE PREPARATION:
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES, AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

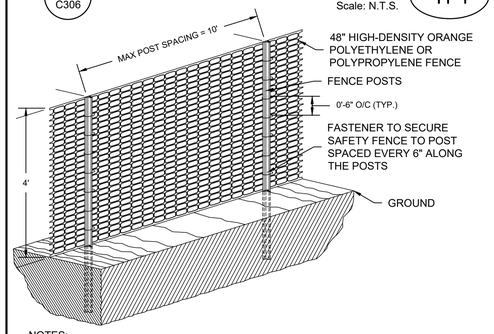
APPLYING MULCH:
MULCHING RATE: MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER.WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20–30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OF DAMAGE TO SHOES, CLOTHING, ETC.
4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH:
1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER–TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE–5 OR SS–1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OR WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TB–TACKIFIERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Ds1 DISTURBED AREA STABILIZATION (WITH MULCH ONLY)

11 C306 TEMPORARY BARRIER FENCE — Tf-1

Scale: N.T.S.



NOTES:
1. INSTALL THE BARRIER FENCE ACCORDING TO THE MANUFACTURER'S INSTRUCTION.
2. USE BARRIER FENCE FABRICATED FROM HIGH-DENSITY POLYETHYLENE OR POLYPROPYLENE CONTAINING U.V. STABILIZERS.
3. ENSURE THE BARRIER FENCE IS FREE OF MANUFACTURING FLAWS AND MEETS THE FOLLOWING PHYSICAL PROPERTIES.
   3.1. MAXIMUM MESH OPENING SIZE = 1 3/4 INCH X 2 3/8 INCH
   3.2. ROLL WIDTH = 4 FEET
   3.3. COLOR = INTERNATIONAL ORANGE
   3.4. MAXIMUM POROSITY = 80%
   3.5. MINIMUM YIELD STRENGTH = 750 LB/FT
4. USE SUITABLE STRENGTH METAL, WOOD, OR COMPOSITE POSTS.
5. ENSURE THE POSTS ARE LONG ENOUGH TO BE EMBEDDED TO A DEPTH THAT WILL PROVIDE STABILITY TO THE FENCE AND HAVE SUFFICIENT RIGIDITY TO HOLD THE FENCE IN A VERTICAL POSITION.
6. THE MAXIMUM POST SPACING IS 10 FT.
7. ATTACH THE FENCE TO THE POSTS WITH NAILS, STAPLES, OR WIRE TIES SPACED EVERY 6 INCHES ALONG THE POSTS. DO NOT ALLOW THE METHOD OF ATTACHMENT TO CREATE A SAFETY HAZARD. FENCE SHOULD BE FASTENED SECURELY TO THE POSTS.
8. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.
9. AT THE COMPLETION OF THE PROJECT, OR AS DIRECTED BY THE ENGINEER, REMOVE ALL BARRIER FENCE INCLUDING POSTS AND INCIDENTALS.

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

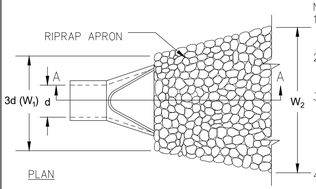
BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

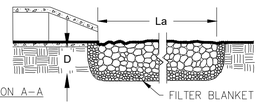
12 C306 STORM DRAIN OUTLET PROTECTION - DETAIL — St-1

Scale: N.T.S.

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



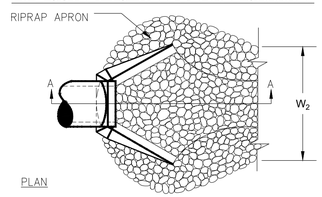
PLAN



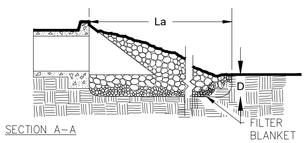
SECTION A–A

NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL–DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL



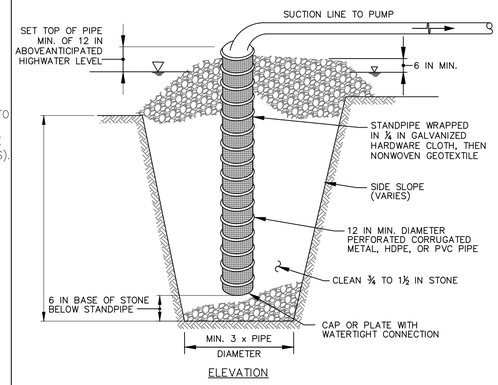
PLAN



SECTION A–A

13 C306 SUMP PIT - DETAIL — Sp-1

Scale: N.T.S.



ELEVATION

CONSTRUCTION SPECIFICATIONS

1. USE 12 INCH OR LARGER DIAMETER CORRUGATED METAL, HDPE, OR PVC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER. BOTTOM OF PIPE MUST BE CAPPED WITH WATERTIGHT SEAL.
2. WRAP PIPE WITH ¼ INCH GALVANIZED HARDWARE CLOTH AND WRAP NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS, OVER THE HARDWARE CLOTH.
3. EXCAVATE PIT TO THREE TIMES THE PIPE DIAMETER AND FOUR FEET IN DEPTH. PLACE ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT.
4. SET TOP OF PIPE MINIMUM 12 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
5. BACKFILL PIT AROUND THE PIPE WITH ¾ TO 1½ INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE AND EXTEND STONE A MINIMUM OF 6 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
6. DISCHARGE TO A STABLE AREA AT A NONEROSIVE RATE.
7. A SUMP PIT REQUIRES FREQUENT MAINTENANCE. IF SYSTEM CLOGS, REMOVE PERFORATED PIPE AND REPLACE GEOTEXTILE AND STONE. KEEP POINT OF DISCHARGE FREE OF EROSION.

14 C306 TOPSOILING - DETAIL — Tp

Scale: N.T.S.

TOPSOILING NOTES

1. TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A PH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT EXCEED 500 PPM.
2. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL.
3. FOLLOW TOPSOILING TABLE FOR APPLICATION RATES OF TOPSOIL AT VARIOUS DEPTHS.

TOPSOILING TABLE

DEPTH (INCHES)	* PER 1,000 SQUARE FEET	* PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

* CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL DETAILS (2 OF 4)

SHEET NUMBER

C306

SHEET 37 OF 47

ANSI D 22" x 34"

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

CONDITIONS

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established.
eeded.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	3.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.9 pound	40 lbs.	8/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15
Sudangrass	1.4 pounds	60 lbs.	3/1-8/1
Browntop Millet	0.9 pound	40 lbs.	4/1-7/15
Wheat	4.1 pounds	3 bu.	10/15-2/1

* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit tempertur variations and conditions.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or handseeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to deter}mine required amounts of fertilizer and amend}ments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inacces}sible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand.

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

DEFINITION

A permanent vegetation using sods on highly erodible or critically eroded lands.

CONDITIONS

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow .

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

- Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.
- Topsoil properly applied will help guarantee stand. Don't use topsoil recently treated with herbicides or soil sterilants.
- Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type (lbs./acre)	Fertilizer Rate (lbs./acre)	Fertilizer Rate	Season
10-10-10	1000	.025	Fall

- Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation

- Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod.
- On slopes steeper than 3:1, sod should be anchored with wooden or biodegradable pins or other approved methods.
- Installed sod should be rolled or tamped to provide good contact between sod and soil.
- Irrigate sod and soil to a depth of 4" immediately after installation.
- Sod should not be cut or spread in extremely wet or dry weather.
- Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS

- Sod selected should be certified. Sod grown in the general area of the project is desirable.
- Sod should be machine cut and contain 3/4" ±1/4" of soil, not including shoots or thatch.
- Sod should be cut to the desired size within ±5%. Torn or uneven pads should be rejected.
- Sod should be cut and installed within 36 hours of digging.
- Avoid planting when subject to frost heave or hot weather if irrigation is not available.
- The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-4.1 for your Resource Area.

Table 6-6.2. Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P,C P,C P,C P,C	Warm Weather
Bahiagrass	Pensacola	P,C	Warm Weather
Centipede	-	P,C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	C	Warm Weather
Zoysia	Emerald Myer	P,C	Warm Weather
Tall Fescue	Kentucky	M-L,P	Cool Weather

MAINTENANCE

- Re-sod areas where an adequate stand of sod is not obtained.
- New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified.
- Apply one ton of agricultural lime as indicated by soil test or every 4-6 years.
- Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.3. Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 - 30
Warm Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

Du DUST CONTROL ON DISTURBED AREAS

DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. TEMPORARY METHODS

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb-Tackifiers and Binders. Resins such as Curasol or Terratack should be used according to manufacturer's recommendations.

Vegetative Cover. See standard Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to standard Tb-Tackifiers and Binders.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. PERMANENT METHODS

Permanent Vegetation. See standard Ds3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable
protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See standard Tp - Topsoiling.

Stone. Cover surface with crushed stone or coarse gravel. See standard Cr-Construction Road Stabilization.

15 C307 **DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING - DETAIL** Scale: N.T.S.

16 C307 **DISTURBED AREA STABILIZATION WITH SODDING - DETAIL** Scale: N.T.S.

17 C307 **DUST CONTROL ON DISTURBED AREAS - DETAIL** Scale: N.T.S.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization..

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Lime and Fertilizer Rates and Analysis

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs.

Agricultural lime is generally not required where only trees are planted.

Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1 below.

TABLE 6-5.1. FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1500 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/2/ - 30 lbs./ac.
2. Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1500 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ - -
3. Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	1300 lbs./ac. /3 1300 lbs./ac. /3 1100 lbs./ac.	- - -
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	-
5. Shrub Lespedeza	First Maintenance	10-10-10 10-10-10	700 lbs./ac. 700 lbs./ac. /4	-
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/6 50-100 lbs./ac. 2/ 30 lbs./ac.
8. Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1100 lbs./ac. 400 lbs./ac.	50 lbs./ac. 6/

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used. When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.
4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Planting:

Hydraulic Seeding

Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-Till Seeding

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulching

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% soil cover. Select the mulching material from the following and apply as indicated:

1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Drystraw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.
4. Sericea lespedeza hay containing mature seed shall be applied at a rate of three tons per acre.
5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod, mulch is not required.
7. Bituminous treated roving may be applied on planted areas on slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulch

Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Anchoring Mulch

Anchor straw or hay mulch immediately after application by one of the following methods:
1. Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is ejected from the blower machine or (b) sprayed on the mulch immediately following mulch application when straw or hay is spread by methods other than special blower equipment.

The combination of asphalt emulsion and water shall consist of a homogeneous mixture satisfactory for spraying. The mixture shall consist of 100 gallons of grade SS-1h or CSS-1h emulsified asphalt and 100 gallons of water per ton of mulch.
Care shall be taken at all times to protect state waters, the public, adjacent property, pavements, curbs, sidewalks, and all other structures from asphalt discoloration.
2. Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk'" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
3. Synthetic tackifiers or binders approved by GDOT shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. Refer to Tb - Tackifiers and Binders.
4. Rye or wheat can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one half bushel per acre.
5. Plastic mesh or netting with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

Irrigation

Irrigation shall be applied at a rate that will not cause runoff.

SEEDING RATES FOR PERMANENT SEEDING

SPECIES ***	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
BAHIA	1.4 POUNDS	60 LBS.	1/1-12/31
BERMUDA	0.2 POUND	10 LBS.	2/15-7/1
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1
SWITCH GRASS	0.9 POUND	40 LBS.	3/15-6/1

* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit temperature variations and conditions.
*** Weeping love grass and lespedeza are not permitted to grow on Category I dams, including Lake Erin Dam.

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

18 C307 **DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION - DETAIL** Scale: N.T.S.

LAST SAVED BY: WEISA (2024-09-12) LAST PLOTTED: 2024-09-18
FILENAME: I:\DCS\PROJECTS\WTR\60727041_LAKEERINDAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PED-C305-LAKEERIN.DWG

AECOM

PROJECT
LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT
CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT
AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE
EROSION AND SEDIMENT CONTROL DETAILS (3 OF 4)

SHEET NUMBER
C307
SHEET 38 OF 47

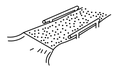
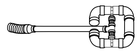
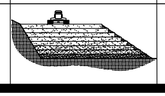
ANSI D 22" x 34"

GEORGIA
UNIFORM CODING SYSTEM

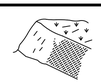
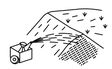
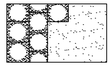
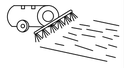
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, 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 exit to provide a place for removing mud from tires thereby protecting public streets.
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.
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.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
St	STORMDRAIN OUTLET 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			Providing a rough soil surface with horizontal depressions created by operating a tillage or other suitable implement on the contour, or by leaving slopes in a roughened condition by not fine-grading them.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

LAST SAVED BY: WEISA (2024-09-12) LAST PLOTTED: 2024-09-18
FILENAME: L:\DC\SI\PROJECTS\WTR\60727041_LAKEERIN\DA\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PED-C305-LAKEERIN.DWG

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Dekalb County, Region II

Project Name: Lake Erin Dam Rehabilitation **Address:** 4000 Henderson Park Road, Tucker, Georgia, 30084
Local Issuing Authority: Tucker, Georgia **Date on Plans:** September 13, 2024
Name & Email of person filling out checklist: Marlon Jackson, marlon.jackson@aecom.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
39/47	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
32/47	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional.
41/47	Y	3	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
41/47	Y	4	Provide the name, address, email address, and phone number of primary permittee.
32/47	Y	5	Note total and disturbed acreages of the project or phase under construction.
32/47	Y	6	Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
32/47	Y	7	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
32/47	Y	8	Descriptions of the nature of construction activity and existing site conditions.
32/47	Y	9	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
41/47	Y	10	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
41/47	Y	11	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 21** of the permit.
41/47	Y	12	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 20** of the permit. *
41/47	Y	13	Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on **Part IV.D.6.c.(3) page 37** of the permit as applicable. *
41/47	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with **Part IV.A.5 page 26** of the permit. *
41/47	Y	15	Clearly note the statement that "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."
41/47	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
41/47	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
41/47	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
41/47	Y	19	Clearly note statement that "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."
41/47	Y	20	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
41/47	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
41/47	Y	22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
41/47	Y	23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
33/47	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
33/47	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
41/47	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
41/47	Y	27	Description of practices to provide cover for building materials and building products on site. *
41/47	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
40/47	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
41/47	Y	30	Provide complete requirements of Inspections and record keeping by the primary permittee. *
41/47	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
41/47	Y	32	Provide complete details for Retention of Records as per Part IV.F. of the permit. *
42/47	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
42/47	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
32/47	Y	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
32/47	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
32/47	Y	37	Graphic scale and North arrow.
32/47	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

N/A	N	39	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.
N/A	N	40	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. *
33/47	Y	41	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.
33/47	Y	42	Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
43/47	Y	43	Delineation and acreage of contributing drainage basins on the project site.
Report	Y	44	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
Report	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
33/47	Y	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
32/47	Y	47	Soil series for the project site and their delineation.
33/47	Y	48	The limits of disturbance for each phase of construction.
39/47	Y	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.
39/47	Y	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.
36/47	Y	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.
38/47	Y	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.

Effective January 1, 2024

SEDIMENT STORAGE CALCULATIONS:

67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED.

THE LIMIT OF DISTURBANCE FOR THE PROJECT IS 3.12 ACRES.

67*3.12 = 209.0 CUBIC YARDS OF SEDIMENT STORAGE REQUIRED.

GIVEN THAT THIS PROJECT IS THE REHABILITATION OF AN EXISTING EARTHEN EMBANKMENT, THERE IS NO SPACE ON SITE TO PROVIDE A TEMPORARY SEDIMENT BASIN.

SEDIMENT COLLECTION WILL BE ACHIEVED ON SITE THROUGH A SYSTEM OF SUMP PITS AND SEDIMENT FILTER BAGS. SURFACE RUNOFF FOR THE SITE WILL BE FILTERED THROUGH SILT FENCE, SUMP PITS, AND SEDIMENT FILTER BAGS.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL DETAILS (4 OF 4)

SHEET NUMBER

C308

SHEET 39 OF 47

SEQUENCE OF CONSTRUCTION:

1. PRIOR TO BEGINNING ANY CONSTRUCTION WORK, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR'S PROJECT MANAGER AND SUPERINTENDENT, THE OWNER'S REPRESENTATIVE, AND THE ENGINEER. PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR MUST HAVE THE LIMITS OF ACCESS AND DISTURBANCE FIELD-MARKED.
2. PRIOR TO BEGINNING ANY CONSTRUCTION WORK, THE OWNER SHALL FACILITATE AND EXECUTE THE REMOVAL OF THE PLAYGROUND EQUIPMENT AND PAVILION STRUCTURE WITHIN THE ERODIBLE STAGING AND STORAGE AREA AS IDENTIFIED ON THE PLANS.

INITIAL PHASE (1):

3. FIELD LOCATE THE CONSTRUCTION ENTRANCE/EXIT WITH THE OWNER AND ENGINEER.
4. INSTALL THE CONSTRUCTION ENTRANCE/EXIT (Co-1) TO THE SITE AS SHOWN ON THE PLAN.
5. INSTALL TREE PROTECTION FENCING (Tr-1) AS SHOWN ON THE PLAN.
6. CLEAR AND GRUB FOR INSTALLATION OF THE INITIAL PHASE EROSION AND SEDIMENT CONTROLS ONLY.
7. INSTALL THE INITIAL PHASE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE PLAN.
8. WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF THE INITIAL EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
9. CLEAR AND GRUB FOR REMAINING CONSTRUCTION WORK.
10. INSTALL TEMPORARY BARRIER FENCE (Tf-1) AND CHAIN-LINK SECURITY FENCE AS DEMARCATED ON THE PLAN.
11. AS NECESSARY, DEWATER UNCONTROLLED RUNOFF TO THE WORK SITE BY PUMPING SEDIMENT LADEN WATER THROUGH A FILTER BAG (Fb-1) PRIOR TO DISCHARGING. ENSURE THE FILTER BAG IS LOCATED ON A STABLE OUTLET PROTECTION (St-1).

INTERMEDIATE PHASE (2):

12. DEWATER THE RESERVOIR IN A CONTROLLED MANNER TO THE ELEVATION RANGE SPECIFIED IN THE CONTRACT DOCUMENTS AND MAINTAIN THE ELEVATION WITHIN THAT RANGE THROUGHOUT CONSTRUCTION.
13. INSTALL THE TEMPORARY COFFERDAM PER THE MANUFACTURER'S INSTRUCTIONS TO THE ELEVATION SHOWN ON THE PLAN.
14. AS NECESSARY, DEWATER UNCONTROLLED RUNOFF TO THE WORK SITE BY PUMPING SEDIMENT LADEN WATER THROUGH A FILTER BAG (Fb-1) PRIOR TO DISCHARGING. ENSURE THE FILTER BAG IS LOCATED ON A STABLE OUTLET PROTECTION (St-1).
15. REMOVE OR REPOSITION SELECT INITIAL PHASE EROSION AND SEDIMENT CONTROLS AND INSTALL THE INTERMEDIATE PHASE (2) EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE PLAN, EXCEPT FOR THE TWO (2) TEMPORARY 48" HDPE-S CLEAR WATER DIVERSION PIPES (Cp-1).
16. WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF THE INTERMEDIATE PHASE 2 EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
17. EXCAVATE FOR INSTALLATION OF THE PROPOSED PRINCIPAL SPILLWAY SYSTEM AND ITS APPURTENANCES (LOW LEVEL OUTLET HEADWALL AND CONDUIT, INTAKE TOWER STRUCTURE, PRINCIPAL SPILLWAY CONDUIT, IMPACT BASIN, AND RIPRAP LINED OUTLET CHANNEL) AS WELL AS FOR THE REMOVAL AND DEMOLITION OF THE EXISTING OUTLET WORKS (30" CMP, INTAKE STRUCTURE, EXISTING 30" RCP, ENDWALL), EXISTING MASONRY AUXILIARY SPILLWAY TRAINING WALLS, EXISTING 9" STEEL STAND PIPE, AND EXISTING TOE DRAIN CONDUITS, AS SEEN ON THE DEMOLITION PLAN.
18. INSTALL THE TWO (2) TEMPORARY 48" HDPE-S CLEAR WATER DIVERSION PIPES (Cp-1) STARTING AT THE DOWNSTREAM END AND WORKING UPSTREAM. KEEP POINT OF DISCHARGE FREE OF EROSION, AND MAINTAIN WATER TIGHT CONNECTIONS AND POSITIVE DRAINAGE.
19. STARTING DOWNSTREAM AND WORKING UPSTREAM, INSTALL THE IMPACT BASIN, LOWER PORTION OF THE FILTER DIAPHRAGM AND ITS APPURTENANCES, 48" RCP PRINCIPAL SPILLWAY CONDUIT AND ITS CONCRETE ENCASEMENT, AND THE INTAKE TOWER STRUCTURE. THE 15" RCP LOW LEVEL OUTLET'S CONDUIT, CONCRETE CRADLE, AND HEADWALL WILL BE INSTALLED IN THE INTERMEDIATE PHASE (3).
20. WHILE THE CONCRETE OF THE IMPACT BASIN, PRINCIPAL SPILLWAY CONDUIT AND ENCASEMENT, AND INTAKE TOWER STRUCTURE CURE TO ACHIEVE ITS FULL DESIGN STRENGTH, INSTALL THE EAST AND WEST TOE DRAINS ALONG WITH ITS FILTER MEDIA.
21. WHILE THE CONCRETE OF THE IMPACT BASIN, PRINCIPAL SPILLWAY CONDUIT AND ENCASEMENT, AND INTAKE TOWER STRUCTURE CURE TO ACHIEVE ITS FULL DESIGN STRENGTH, GRADE AND INSTALL THE RIPRAP LINED OUTLET CHANNEL DOWNSTREAM OF THE IMPACT BASIN WITHIN THE CONFINES OF THE ESTABLISHED EROSION AND SEDIMENT CONTROLS. THE CONTRACTOR MAY ADJUST THE ALIGNMENT OR SEDIMENT CONTROLS CURRENTLY IN PLACE DOWNSTREAM OF THE CENTER LINE OF THE PROPOSED DAM CREST TO COMPLETE THE NECESSARY GRADING TO FORM THE OUTLET CHANNEL REQUIRED FOR THE INTERMEDIATE PHASE (3) ONLY WITH THE EXPRESS WRITTEN APPROVAL FROM THE DESIGN ENGINEER.

INTERMEDIATE PHASE (3A):

22. AFTER THE CONCRETE FOR THE IMPACT BASIN, PRINCIPAL SPILLWAY CONDUIT AND ENCASEMENT, AND INTAKE TOWER STRUCTURE CURES TO ACHIEVE ITS FULL DESIGN STRENGTH, REMOVE OR REPOSITION SELECT INTERMEDIATE PHASE 2 EROSION AND SEDIMENT CONTROLS AND INSTALL THE INTERMEDIATE PHASE 3 EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE PLAN.
23. STARTING WITH PHASE 3A, CONNECT THE ONE (1) TEMPORARY 48" HDPE-S CLEAR WATER DIVERSION PIPE (Cp-1) TO THE INTAKE TOWER STRUCTURE AS SHOWN IN THE CONTRACT DRAWINGS. ENSURE THE RIPRAP LINED OUTLET CHANNEL DOWNSTREAM OF THE IMPACT BASIN IS FREE OF DEBRIS OR OTHER OBSTRUCTIONS AND MAINTAINS POSITIVE DRAINAGE. DO NOT INSTALL THE ONE (1) 15" HDPE-S CLEAR WATER DIVERSION PIPE (Cp-1) FOR PHASE 3B AS PART OF PHASE 3A.
24. WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF THE INTERMEDIATE PHASE (3A) EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY ______________________

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

SEQUENCE OF CONSTRUCTION (CONTINUED):

25. BACKFILL DAM EMBANKMENT TO FINISHED GRADE CONCURRENT WITH THE FILTER DIAPHRAGM AND TOE DRAIN INSTALLATIONS. CONSTRUCT AND BACKFILL THE DAM EMBANKMENT USING MEANS AND METHODS THAT COMPLETES AS MUCH BACKFILL AND GRADING OF THE DAM EMBANKMENT AS POSSIBLE WHILE STILL ALLOWING ACCESS FOR THE REMAINING INSTALLATION OF THE REINFORCED CONCRETE PLUG AT THE INTAKE TOWER STRUCTURE, AS WELL AS THE 15" RCP LOW LEVEL OUTLET'S CONDUIT, CONCRETE CRADLE, AND HEADWALL.
26. WITH A NOAA 3-DAY DRY WEATHER FORECAST, REMOVE THE TEMPORARY 48" HDPE-S CLEAR WATER DIVERSION PIPE (Cp-1) AND INSTALL THE 15" RCP LOW LEVEL OUTLET'S CONDUIT, CONCRETE CRADLE, AND HEADWALL, AS WELL AS THE REINFORCED CONCRETE PLUG AT THE INTAKE TOWER STRUCTURE.
27. AS NECESSARY, DEWATER UNCONTROLLED RUNOFF TO THE WORK SITE BY PUMPING SEDIMENT LADEN WATER THROUGH A FILTER BAG (Fb-1) PRIOR TO DISCHARGING. ENSURE THE FILTER BAG IS LOCATED ON A STABLE OUTLET PROTECTION (St-1).
28. WHEN THE 15" RCP LOW LEVEL OUTLET'S CONDUIT IS SET, PROCEED TO INTERMEDIATE PHASE (3B).

INTERMEDIATE PHASE (3B):

29. REMOVE OR REPOSITION SELECT INTERMEDIATE PHASE (3A) EROSION AND SEDIMENT CONTROLS AND INSTALL THE INTERMEDIATE PHASE (3B) EROSION AND SEDIMENT CONTROLS. INSTALL AND CONNECT THE ONE (1) 15" HDPE-S CLEAR WATER DIVERSION PIPE (Cp-1) TO THE LOW LEVEL OUTLET HEADWALL AND TEMPORARY COFFERDAM.
30. WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF THE INTERMEDIATE PHASE (3B) EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
31. BACKFILL THE REMAINDER OF THE DAM EMBANKMENT TO FINISHED GRADE CONCURRENT WITH THE REMAINING INSTALLATION FOR THE FILTER DIAPHRAGM MEDIA.
32. INSTALL THE RIPRAP SLOPE PROTECTION ALONG THE UPSTREAM EMBANKMENT OF THE DAM.
33. INSTALL THE AGGREGATE SURFACE TRAIL ALONG THE CREST OF THE DAM AS SEEN ON THE PLANS.
34. WITH A NOAA 3-DAY DRY WEATHER FORECAST, GRADE AND INSTALL RIPRAP CHANNEL PROTECTION ALONG THE LATERAL CHANNEL AT THE DOWNSTREAM END OF THE EMBANKMENT. ADJUST THE SANDBAG DIKE AND TEMPORARY 18" HDPE-S CLEAR WATER DIVERSION PIPE (Cp-1) AS NECESSARY TO COMPLETE THE GRADING AND INSTALLATION OF THE RIPRAP. REPLACE THE SANDBAG DIKE AND TEMPORARY 18" HDPE-S CLEAR WATER DIVERSION PIPE (Cp-1) BACK TO ITS ORIGINAL POSITION UPON COMPLETION.
35. COMPLETE FINAL GRADING FOR THE REMAINDER OF THE SITE.
36. INSTALL PIEZOMETERS P-25-1 THROUGH P-25-4.
37. REPAIR OR REPLACE DAMAGED INFRASTRUCTURE OR PROPERTY TO ITS ORIGINAL CONDITION, MATCHING THE EXISTING MATERIALS, SECTION, AND GEOMETRY IN-KIND, UNLESS DIRECTED OTHERWISE BY THE ENGINEER AND THE OWNER.

FINAL PHASE (4):

38. INSTALL TOPSOIL, PERMANENT STABILIZATION MATTING, AND TURFGRASS SEED FOR ALL DISTURBED AREA WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS.
39. HOLD AN ONSITE WALK-THROUGH AND PUNCH LIST INSPECTION OF THE SITE WITH THE OWNER AND ENGINEER.
40. ADDRESS PUNCH LIST ITEMS.
41. WITH APPROVAL FROM THE DESIGN PROFESSIONAL, AND ACCEPTANCE OF THE PERMANENT STABILIZATION, REMOVE ALL EROSION AND SEDIMENT CONTROLS AND THE TEMPORARY COFFERDAM.
42. HOLD FINAL ONSITE WALK-THROUGH AND INSPECTION WITH THE OWNER AND ENGINEER.

EROSION AND SEDIMENT CONTROL GENERAL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ON-SITE INSPECTOR.
4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
5. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
6. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON RESIDENTIAL PROJECTS AND SHALL NOT EXCEED 2H:1V ON ALL OTHER PROJECTS.
7. WEEKLY EROSION AND SEDIMENT CONTROL REPORTS SHALL BE SUBMITTED TO THE DEVELOPMENT DEPARTMENT STARTING WITH THE ISSUANCE OF THE DEVELOPMENT PERMIT AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.
8. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA', PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.
9. "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION"
10. INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR.100002.
11. ANY IMPERVIOUS WATER RUNOFF FROM LOTS BY-PASSING WATER QUALITY POND MUST BE TREATED ON A LOT PER LOT BASIS.
12. INSTALLATION OF WATER QUALITY DEVICES SHALL BE CONCURRENT WITH FINAL STABILIZATION AND/OR PRIOR TO MAINTENANCE / PERFORMANCE BOND EXPIRATION.

INITIAL PHASE (1) NOTES:

1. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR'S PROJECT MANAGER AND SUPERINTENDENT, THE OWNER'S REPRESENTATIVE, AND THE ENGINEER. PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR MUST HAVE THE LIMITS OF ACCESS AND DISTURBANCE FIELD-MARKED.
2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF IT'S NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
3. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
4. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS, AND SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.
6. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
7. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHAL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORSEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
8. AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES.
9. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
10. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT THE OUTLETS OF ALL CLEAR WATER DIVERSION PIPE PRIOR TO THE INSTALLATION OF THE TEMPORARY PIPE.
11. ALL SILT FENCES MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS, LATEST EDITION.
12. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
13. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
14. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
15. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING.
16. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

INTERMEDIATE PHASE (2) NOTES:

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF IT'S NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
4. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT THE OUTLETS OF ALL CLEAR WATER DIVERSION PIPE PRIOR TO THE INSTALLATION OF THE TEMPORARY PIPE.
5. ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
6. THE CONTRACTOR SHALL MAINTAIN THE DEWATERED RESERVOIR UNTIL PERMANENT GROUNDCOVER IS ESTABLISHED AND THE FINAL INSPECTION IS COMPLETED.
7. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
8. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
9. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
10. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES, WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

INTERMEDIATE PHASE (3) NOTES:

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF IT'S NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
4. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT THE OUTLETS OF ALL CLEAR WATER DIVERSION PIPE PRIOR TO THE INSTALLATION OF THE TEMPORARY PIPE.
5. ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
6. THE CONTRACTOR SHALL MAINTAIN THE DEWATERED RESERVOIR UNTIL PERMANENT GROUNDCOVER IS ESTABLISHED AND THE FINAL INSPECTION IS COMPLETED.
7. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
8. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
8. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
9. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
10. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

FINAL PHASE (4) NOTES:

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF IT'S NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
4. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT THE OUTLETS OF ALL CLEAR WATER DIVERSION PIPE PRIOR TO THE INSTALLATION OF THE TEMPORARY PIPE.
5. ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
6. THE CONTRACTOR SHALL MAINTAIN THE DEWATERED RESERVOIR UNTIL PERMANENT GROUNDCOVER IS ESTABLISHED AND THE FINAL INSPECTION IS COMPLETED.
7. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
8. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
9. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
10. UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

CONSTRUCTION SCHEDULE

ACTIVITY	JAN 2025	FEB 2025	MAR 2025	APR 2025	MAY 2025	JUNE 2025	JULY 2025	AUG 2025	SEPT 2025	OCT 2025	NOV 2025	DEC 2025
LIMITS OF ACCESS AND DISTURBANCE STAKE OUT												
CLEARING AND GRUBBING												
INITIAL PHASE (1) PERIMETER AND SEDIMENT CONTROLS												
RESERVOIR DEWATERING												
INSTALLATION OF TEMPORARY COFFERDAM												
INTERMEDIATE PHASE (2) SEDIMENT CONTROLS												
EXCAVATION OF DAM EMBANKMENT												
DEMOLITON AND REMOVAL OF EXISTING STRUCTURES												
INSTALLATION OF PRINCIPAL SPILLWAY SYSTEM												
INSTALLATION OF FILTER DIAPHRAGM SYSTEM												
INSTALLATION OF EAST AND WEST TOE DRAIN SYSTEM												
GRADING AND ARMORING OF OUTLET CHANNEL												
INTERMEDIATE PHASE (3A) SEDIMENT CONTROLS												
BACKFILL OF DAM EMBANKMENT												
INTERMEDIATE PHASE (3B) SEDIMENT CONTROLS												
INSTALLATION OF UPSTREAM RIPRAP SLOPE PROTECTION												
INSTALLATION OF AGGREGATE SURFACE TRAIL CREST												
FINAL GRADING AND RIPRAP PROTECTION FOR LATERAL CHANNEL												
FINAL GRADING FOR REMAINDER OF SITE												
INSTALLATION OF PIEZOMETERS												
RESTORATION OF DAMAGED EXISTING INFRASTRUCTURE												
FINAL PHASE (4) SEDIMENT CONTROLS												
PERMANENT STABILIZATION AND VEGETATION												
REMOVAL OF SEDIMENT CONTROLS AND COFFERDAM												
MAINTENANCE OF BMPS												

NOTE:
THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO LAND-DISTURBING ACTIVITIES AND SHALL BE MAINTAINED THROUGH THE PROJECT.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

TUCKER, GEORGIA
Established 1892 ★ Incorporated 2016

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI
GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING	DATE	BY
ISSUED FOR CONSTRUCTION	DATE	BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL NOTES (1 OF 3)

SHEET NUMBER

C309

LAST SAVED BY: WEISA(2024-09-18) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERINDAMENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PEN-C310-LAKEERIN.DWG

ANSI D 22" x 34"

EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES:

1. THE PROPERTY IS LOCATED ON 4000 HENDERSON PARK ROAD, TUCKER, DEKALB COUNTY, GEORGIA, 30084.
2. THE 24-HOUR LOCAL CONTACT OF THIS PROJECT IS ISHRI SANKAR, 1975 LAKESIDE PARKWAY TUCKER, GA 30084, 470-515-1501.
3. THE PRIMARY PERMITTEE OF THIS PROJECT IS THE CITY OF TUCKER, 1975 LAKESIDE PARKWAY TUCKER, GA 30084.
   CONTACT PERSON: KEN HILDEBRANDT, KHILDEBRANDT@TUCKERGA.GOV, 770-865-5645.

   I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SIGNED BY PRIMARY PERMITTEE:
   NAME : KEN HILDEBRANDT COMPANY: CITY OF TUCKER ADDRESS: 1975 LAKESIDE PARKWAY CITY/ST/ZIP: TUCKER, GA 30084 LEVEL IB CERT NO 0000014187

   SIGNATURE ....

4. THE TOTAL ACREAGE OF THE PROPERTY IS 107.07 ACRES AND THE TOTAL DISTURBED AREA IS 3.12 ACRES.
5. THE PROJECT CONSTRUCTION EXIT / ENTRANCE IS LOCATED AT GPS LOCATION LATITUDE: 33.8673° N; LONGITUDE: -84.2287° W.
6. INITIAL PLAN DATE: SEPTEMBER 13, 2024. REVISIONS ARE SHOWN ON INDIVIDUAL SHEETS, WITH REQUESTING ENTITY.
7. THE EXISTING SITE IS THE LAKE ERIN DAM (NATIONAL INVENTORY OF DAMS - NID IDENTIFICATION NUMBER GA01324), LOCATED ON AN UN-NAMED TRIBUTARY TO THE NORTH FORK PEACHTREE CREEK. LAKE ERIN DAM IS AN EARTHEN DAM LOCATED IN HENDERSON PARK IN DEKALB COUNTY, GEORGIA. THE DAM WAS PREVIOUSLY OWNED AND MAINTAINED BY THE DEKALB COUNTY DEPARTMENT OF PUBLIC WORKS, ROADS AND DRAINAGE DIVISION, HOWEVER, ITS OWNERSHIP HAS RECENTLY BEEN TRANSFERRED TO THE CITY OF TUCKER. THE PRIMARY FUNCTION OF THE DAM IS TO SERVE FOR RECREATION PURPOSES WITHIN HENDERSON PARK. LAKE ERIN DAM IS REGULATED BY THE GEORGIA DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION, SAFE DAMS PROGRAM (SDP). BASED ON THE CURRENT CHARACTERISTICS FOR LAKE ERIN DAM, SDP HAS CATEGORIZED THE DAM AS A CATEGORY I, MEDIUM DAM. THE DAM IS A 34-FOOT-HIGH EARTH EMBANKMENT DAM AND IMPOUNDS A 5-ACRE RESERVOIR. THE NATURE OF THE CONSTRUCTION ACTIVITY IS TO REHABILITATE THE DEFICIENCIES OF THE DAM TO MAINTAIN COMPLIANCE WITH REGULATORY STANDARDS AND GUIDANCE.
8. THE PROPERTY IS LOCATED ON 4000 HENDERSON PARK ROAD, TUCKER, DEKALB COUNTY, GEORGIA, 30084. LATITUDE: 33°52'0"; LONGITUDE: -84°13'45". THERE ARE NO CRITICAL AREAS REQUIRING ADDITIONAL MEASURES.
9. THE MS4 IS OPERATED BY THE CITY OF TUCKER WITHIN THE PEACHTREE CREEK WATERSHED (0313000112). THE RECEIVING WATERS OF THIS PROJECT IS AN UNNAMED TRIBUTARY TO PEACHTREE BRANCH THAT DRAINS TO THE NORTH FORK PEACHTREE CREEK APPROXIMATELY 16,250 LF DOWNSTREAM TO THE WEST OF THE PROPERTY. PEACHTREE BRANCH IS NOT AN IMPAIRED STREAM SEGMENT. LAKE ERIN WILL BE DRAINED TO COMPLETE CONSTRUCTION ACTIVITIES AND ONLY ONE ADJACENT PRIVATE PROPERTY OWNER WILL BE AFFECTED. THE PRESENCE OF ON-SITE WETLANDS AND STATE WATERS ON OR WITHIN 200 FEET OF THE PROJECT HAVE BEEN INVESTIGATED AND IT WAS DETERMINED THAT THERE ARE WETLANDS AND STATE WATERS PRESENT THAT WILL BE IMPACTED. THERE ARE NO CRITICAL AREAS REQUIRING ADDITIONAL MEASURES.
10. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

    SIGNATURE: ....

11. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

    SIGNATURE: ....

12. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR100002, THE THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

    SIGNATURE: ....

13. FOR INFRASTRUCTURE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN SEVEN (7) DAYS AFTER INSTALLATION. ALTERNATIVELY, FOR LINEAR INFRASTRUCTURE PROJECTS, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT AND CERTIFY (A) THE INSTALLATION OF THE SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS FOR THE "INITIAL SEGMENT" OF THE LINEAR INFRASTRUCTURE PROJECT AND (B) ALL SEDIMENT BASINS WITHIN THE ENTIRE LINEAR INFRASTRUCTURE PROJECT WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DISTURBED ACREAGE OF THE "INITIAL SEGMENT" OF A LINEAR INFRASTRUCTURE PROJECT MUST BE EQUAL TO OR GREATER THAN 10% OF THE TOTAL ESTIMATED DISTURBED ACREAGE FOR THE LINEAR INFRASTRUCTURE PROJECT BUT NOT LESS THAN ONE (1) ACRE. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WE0ATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY ______________________________

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

15. 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.

16. STREAM BUFFER ENCROACHMENT WILL OCCUR TO COMPLETE THE CONSTRUCTION OF THE IMPACT BASIN AND DOWNSTREAM OUTLET PROTECTION, AND THEREFORE, A STREAM BUFFER VARIANCE IS REQUIRED.
17. THE PRIMARY PERMITTEE(S) SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT (I.E., THOSE BMPS WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION, AND RETURN FREQUENCY OF STORMS) OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.3. OF THIS PERMIT. AMENDMENTS TO THE PLANS MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT. ALL REVISIONS OR AMENDMENTS SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW.
18. NO WASTE MATERIALS, INCLUDING BUT NOT LIMITED TO WASTE CONSTRUCTION MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS, CONCRETE WASHOUT OR EXCAVATED SEDIMENT, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
19. 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. THE MOST EFFICIENT METHOD OF DUST CONTROL FOR THE SITE SHALL BE DETERMINED EXPERIMENTALLY AND MAY CONSIST OF TEMPORARY MEASURES SUCH AS MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, TILLAGE, IRRIGATION, BARRIERS AND/OR THE APPLICATION OF CALCIUM CHLORIDE. LIKEWISE, IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE THE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND PROVISIONS THAT INTERCEPT THE SEDIMENT-LADEN RUNOFF AND DIRECT IT INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
20. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
21. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
22. THIS PROJECT DOES NOT DISCHARGE STORM WATER INTO OR WITHIN ONE MILE UPSTREAM OF A BIOTA IMPAIRED STREAM SEGMENT AND THEREBY SATISFIES THE REQUIREMENTS OF PART III.C.
23. PEACHTREE BRANCH, THE RECEIVING WATERS FOR THIS CONSTRUCTION ACTIVITY, IS NOT AN IMPAIRED STREAM SEGMENT AND DOES NOT CONTAIN A TMDL IMPLEMENTATION PLAN FOR SEDIMENT.
24. WASHOUT OF THE DRUM OF A CONCRETE TRUCK AT THE CONSTRUCTION SITE IS PROHIBITED. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS SHOWN ON THE DRAWINGS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE FOLLOWED:
    - 24.1. CONTAIN ALL WASH WATER ON SOIL, IN A BOWL SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHOUT AREA;
    - 24.2. USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES;
    - 24.3. REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND
    - 24.4. REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED.
25. SPILL CLEANUP AND CONTROL PRACTICES: LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.
26. ALL POST-CONSTRUCTION POLLUTANTS FROM THE SITE WILL BE CONTROLLED/TREATED BY THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWING PLANS.
27. FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).
28. ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES. THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

    PRODUCT SPECIFIC PRACTICES:

    PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE 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 PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

    CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

    FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION (GSWCC) MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

    BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

29. THE CONSTRUCTION ACTIVITY SCHEDULE IS INCLUDED ON THE EROSION AND SEDIMENT CONTROL NOTES SHEET.
30. INSPECTIONS AND RECORD KEEPING:
    - 30.1. PRIMARY PERMITTEE
      - 30.1.1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
      - 30.1.2. MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY, AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION
      - 30.1.3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): POST-RAIN INSPECTIONS WILL RESET THE 14-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
      - 30.1.4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
      - 30.1.5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
      - 30.1.6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.
31. SAMPLING AND FREQUENCY REPORTING:
    - 31.1. SAMPLING FREQUENCY:
      - 31.1.1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
      - 31.1.2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.
      - 31.1.3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
        - 31.1.1.1. (A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;
        - 31.1.1.2. (B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;
        - 31.1.1.3. (C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-RAIN EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLYDESIGNED, INSTALLED AND MAINTAINED;
        - 31.1.1.4. (D) WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
        - 31.1.1.5. (E) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

        *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.
    - 31.2. REPORTING:
      - 31.2.1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
      - 31.2.2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
        - 31.2.2.1. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
        - 31.2.2.2. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
        - 31.2.2.3. THE DATE(S) ANALYSES WERE PERFORMED;
        - 31.2.2.4. THE TIME(S) ANALYSES WERE INITIATED;
        - 31.2.2.5. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
        - 31.2.2.6. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
        - 31.2.2.7. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
        - 31.2.2.8. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
        - 31.2.2.9. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
      - 31.2.3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE EPD DISTRICT OFFICE OR DELIVERY RECEIPT EMAIL TO THE APPROPRIATE EPD DISTRICT OFFICE RESOURCE MAILBOX ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
32. RETENTION OF RECORDS
    - 32.1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
      - 32.1.1. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
      - 32.1.2. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
      - 32.1.3. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
      - 32.1.4. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
      - 32.1.5. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
      - 32.1.6. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
      - 32.1.7. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.
    - 32.2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING ______ DATE BY

ISSUED FOR CONSTRUCTION ______ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL NOTES (2 OF 3)

SHEET NUMBER

C310

LAST SAVED BY: WEISA(2024-09-18) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERINDAMENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PEN-C310-LAKEERIN.DWG

EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES:

33. SAMPLING REQUIREMENTS:
- 33.1. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.
- 33.2. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
  - 33.2.1. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE INFRASTRUCTURE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
  - 33.2.2. A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
  - 33.2.3. WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
  - 33.2.4. ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIMELINE FOR SUBMITTAL.
- 33.3. SAMPLE TYPE:
  - 33.3.1. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED), THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
    - 33.3.1.1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
    - 33.3.1.2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
    - 33.3.1.3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
    - 33.3.1.4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
    - 33.3.1.5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.
- 33.4. SAMPLING POINTS:
  - 33.4.1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.C.(2). OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLING POINTS SHALL BE LOCATED ON APPLICABLE PAGES OF THE INITIAL, INTERMEDIATE, AND FINAL PHASE OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
    - 33.4.1.1. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
    - 33.4.1.2. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
    - 33.4.1.3. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).
    - 33.4.1.4. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.
    - 33.4.1.5. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
    - 33.4.1.6. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
    - 33.4.1.7. PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.
    - 33.4.1.8. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.4.OR III.D.5, WHICHEVER IS APPLICABLE.
  - 33.4.2. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, THE PERMITTEE IS NOT REQUIRED TO SAMPLE A PERENNIAL OR INTERMITTENT STREAM OR OTHER WATER BODIES (OR THE ASSOCIATED OUTFALL, IF APPLICABLE) IF THE DESIGN PROFESSIONAL PREPARING THE PLAN CERTIFIES THAT AN INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED RECEIVING WATER TO BE SAMPLED WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER. A WRITTEN JUSTIFICATION AND DETAILED ANALYSIS SHALL BE PREPARED BY THE DESIGN PROFESSIONAL JUSTIFYING SUCH PROPOSED SAMPLING. A SUMMARY CHART OF THE JUSTIFICATION AND ANALYSIS FOR THE REPRESENTATIVE SAMPLING MUST BE INCLUDED ON THE PLAN. THE JUSTIFICATION AND ANALYSIS SHALL INCLUDE THE LOCATION AND DESCRIPTION OF THE SPECIFIED SAMPLED AND UN-SAMPLED RECEIVING WATER AND SHALL CONTAIN A DETAILED COMPARISON AND DISCUSSION OF EACH SUCH RECEIVING WATER IN THE FOLLOWING AREAS:
    - 33.4.2.1. SITE LAND DISTURBANCES AND CHARACTERISTICS;
    - 33.4.2.2. RECEIVING WATER WATERSHED SIZES AND CHARACTERISTICS; AND
    - 33.4.2.3. SITE AND WATERSHED RUNOFF CHARACTERISTICS UTILIZING THE METHODS IN APPENDIX A-1 (UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE'S TR-55, URBAN HYDROLOGY FOR SMALL WATERSHEDS) OF THE MOST RECENT VERSION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA" FOR THE VARIOUS PRECIPITATION EVENTS AND ANY OTHER SUCH CONSIDERATIONS NECESSARY TO SHOW THAT THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASES IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATERS.
  - 33.4.3. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, WHEN THE PERMITTEE DETERMINES THAT SOME RECEIVING WATER(S) WILL NOT BE SAMPLED DUE TO REPRESENTATIVE SAMPLING, THE DESIGN PROFESSIONAL MAKING THIS DETERMINATION AND PREPARING THE PLAN MUST INCLUDE AND SIGN THE FOLLOWING CERTIFICATION IN THE PLAN: "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STEAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR100002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."
  - 33.4.4. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A SELECTED RECEIVING WATER NO LONGER REPRESENTS ANOTHER RECEIVING WATER, THEN THE PERMITTEE SHALL SAMPLE THE LATTER RECEIVING WATER UNTIL SELECTION OF AN ALTERNATIVE REPRESENTATIVE RECEIVING WATER.
  - 33.4.5. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A RECEIVING WATER IS DETERMINED NOT TO BE REPRESENTED AS CERTIFIED IN THE PLAN, THE PERMITTEE SHALL SAMPLE THAT RECEIVING WATER UNTIL A NOTICE OF TERMINATION IS SUBMITTED OR UNTIL THE APPLICABLE PHASE IS STABILIZED IN ACCORDANCE WITH THIS PERMIT.
  - 33.4.6. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, MONITORING OBLIGATIONS SHALL CEASE FOR ANY PHASE OF THE PROJECT THAT HAS BEEN STABILIZED IN ACCORDANCE WITH PART IV.D.6.C.(1)(G).

34. NTU LIMITS:
- 34.1. THE AREA OF THE SITE IS ± 3.0 ACRES, THE SURFACE WATER DRAINAGE AREA IS LESS THAN 5 SQUARE MILES AND THE RECEIVING WATER IS CLASSIFIED AS WARM WATER, THEREFORE, THE ALLOWABLE TURBIDITY FOR THIS PROJECT IS 75 NTU.

NTU LIMITS TABLE

Waters Supporting Warm Water Fisheries

	Surface Water Drainage Area, square miles							
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres 1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

35. ALTERNATIVE BMPS:
- 35.1. NO ALTERNATIVE BMPS ARE USED ON THIS PROJECT.

36. DELINEATION OF UNDISTURBED BUFFERS ADJACENT TO STATE WATERS:
- 36.1. ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN IDENTIFIED AND/OR DELINEATED AND WILL BE PROTECTED BY ASSOCIATED STATE AND COUNTY/CITY PROTECTION REGULATIONS AND BUFFERS. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO ENSURE THAT NO STATE WATER BUFFERS ARE ENCROACHED UPON.

37. DELINEATION OF ON-SITE WETLANDS AND ALL STATE WATERS ON AND WITHIN 200 FEET OF THE PROJECT SITE:
- 37.1. ALL ON SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN IDENTIFIED AND/OR DELINEATED. THIS SITE DOES CONTAIN WETLANDS AND THERE IS A STATE WATER WITHIN 200 FEET OF THE SITE, WHICH IS PROTECTED BY ASSOCIATED STATE AND COUNTY/CITY PROTECTION REGULATIONS AND A 25-FOOT STATE WATER BUFFER. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO ENSURE THAT NO WETLANDS, WETLAND BUFFERS, OR STATE WATER BUFFERS ARE ENCROACHED UPON.

38. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM WITH THE GUIDELINES OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL."

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

PERMIT COVERAGE:

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100002 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE CONSTRUCTION PROJECTS.

MANAGEMENT PRACTICES AND PERMIT VIOLATIONS (PART III.D):

1. BEST MANAGEMENT PRACTICES, AS SET FORTH IN THIS PERMIT, ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES, AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART III.D.4. AND PART III.D.5.
2. EXCEPT AS REQUIRED TO INSTALL THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS AS DESCRIBED IN PART IV.D.3., THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS MUST BE INSTALLED AND IMPLEMENTED PRIOR TO CONDUCTING ANY OTHER CONSTRUCTION ACTIVITIES (E.G., CLEARING, GRUBBING AND GRADING) WITHIN THE CONSTRUCTION SITE OR WHEN APPLICABLE, WITHIN PHASED SUB-PARTS, SECTIONS OR SEGMENTS OF THE CONSTRUCTION SITE. FAILURE TO COMPLY SHALL CONSTITUTE A VIOLATION OF THIS PERMIT FOR EACH DAY ON WHICH CONSTRUCTION ACTIVITIES OCCUR. THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN MUST INSPECT THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS IN ACCORDANCE WITH PART IV.A.5. WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
3. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THIS PERMIT FOR EACH DAY ON WHICH SUCH FAILURE OCCURS. BMP MAINTENANCE AS A RESULT OF THE PERMITTEE'S ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED A VIOLATION FOR THE PURPOSES OF THIS PARAGRAPH, IF DURING THE COURSE OF THE PERMITTEE'S ROUTINE INSPECTION BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2. OF THIS PERMIT.
4. A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.I.
5. WHEN THE PERMITTEE HAS ELECTED TO SAMPLE OUTFALL(S), THE DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX B APPLICABLE TO THE CONSTRUCTION SITE. AS SET FORTH THEREIN, THE NEPHELOMETRIC TURBIDITY UNIT (NTU) VALUE SHALL BE SELECTED FROM APPENDIX B BASED UPON THE SIZE OF THE CONSTRUCTION SITE, THE SURFACE WATER DRAINAGE AREA AND WHETHER THE RECEIVING WATER(S) SUPPORTS WARM WATER FISHERIES OR IS A TROUT STREAM AS INDICATED IN THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6.
6. WHENEVER A PERMITTEE FINDS THAT A BMP HAS FAILED OR IS DEFICIENT (BEYOND ROUTINE MAINTENANCE) AND HAS RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL IMMEDIATELY TAKE ALL REASONABLE STEPS TO ADDRESS THE CONDITION, INCLUDING CLEANING UP ANY IMPACTED AREAS SO THE MATERIAL WILL NOT DISCHARGE IN SUBSEQUENT RAIN EVENTS. THE PERMITTEE SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2. OF THIS PERMIT AND SHALL CORRECT SUCH BMP AS FOLLOWS:
   - 6.1. WHEN THE REPAIR DOES NOT REQUIRE A NEW OR REPLACEMENT BMP OR SIGNIFICANT REPAIR, THE BMP FAILURE OR DEFICIENCY MUST BE REPAIRED WITHIN TWO (2) BUSINESS DAYS FROM THE TIME OF DISCOVERY;
   - 6.2. WHEN THE REPAIR REQUIRES A NEW OR REPLACEMENT BMP OR SIGNIFICANT REPAIR, THE INSTALLATION OF THE NEW OR MODIFIED BMP MUST BE COMPLETED AND THE BMP MUST BE OPERATIONAL BY NO LATER THAN SEVEN (7) DAYS FROM THE TIME OF DISCOVERY. IF IT IS INFEASIBLE TO COMPLETE THE INSTALLATION OR REPAIR WITHIN SEVEN (7) DAYS, THE PERMITTEE MUST DOCUMENT WHY IT IS INFEASIBLE TO COMPLETE THE INSTALLATION OR REPAIR WITHIN THE SEVEN (7) DAY TIMEFRAME AND DOCUMENT THE SCHEDULE FOR INSTALLING OR REPAIRING THE BMPS AND MAKING THE BMPS OPERATIONAL AS SOON AS FEASIBLE AFTER THE SEVEN (7) DAY TIMEFRAME.

AUTHORIZED DISCHARGES (PART I.C):
1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT WILL RESULT IN CONTIGUOUS LAND DISTURBANCES EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING ON OR BEFORE, AND CONTINUING AFTER, THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS EXISTING STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES) EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3. PART I.C.1.A.
2. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT WILL RESULT IN CONTIGUOUS LAND DISTURBANCES EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING AFTER THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES), EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3. PART I.C.1.B.
3. MIXED STORMWATER DISCHARGES: PART I.C.2.
   - 3.1. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;
   - 3.2. THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT; AND
   - 3.3. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT
   - 3.4. THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY IN THE PLAN AND IS IN COMPLIANCE WITH PART IV.D.7: PART III.A.2.
     - 3.4.1. FIRE FIGHTING ACTIVITIES;
     - 3.4.2. FIRE HYDRANT FLUSHING;
     - 3.4.3. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING;
     - 3.4.4. IRRIGATION DRAINING;
     - 3.4.5. AIR CONDITIONING CONDENSATE;
     - 3.4.6. SPRINGS;
     - 3.4.7. UNCONTAMINATED GROUND WATER; AND
     - 3.4.8. FOUNDATION OR FOOTING DRAINS WHERE THE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

PERMIT COVERAGE (CONTINUED):

LIMITATIONS ON COVERAGE PART I.C.3

THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

1. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION;
2. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2. OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORMWATER DISCHARGES) OF THIS PERMIT;
3. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND
4. STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

COMPLIANCE WITH WATER QUALITY PART I.C.4

1. NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

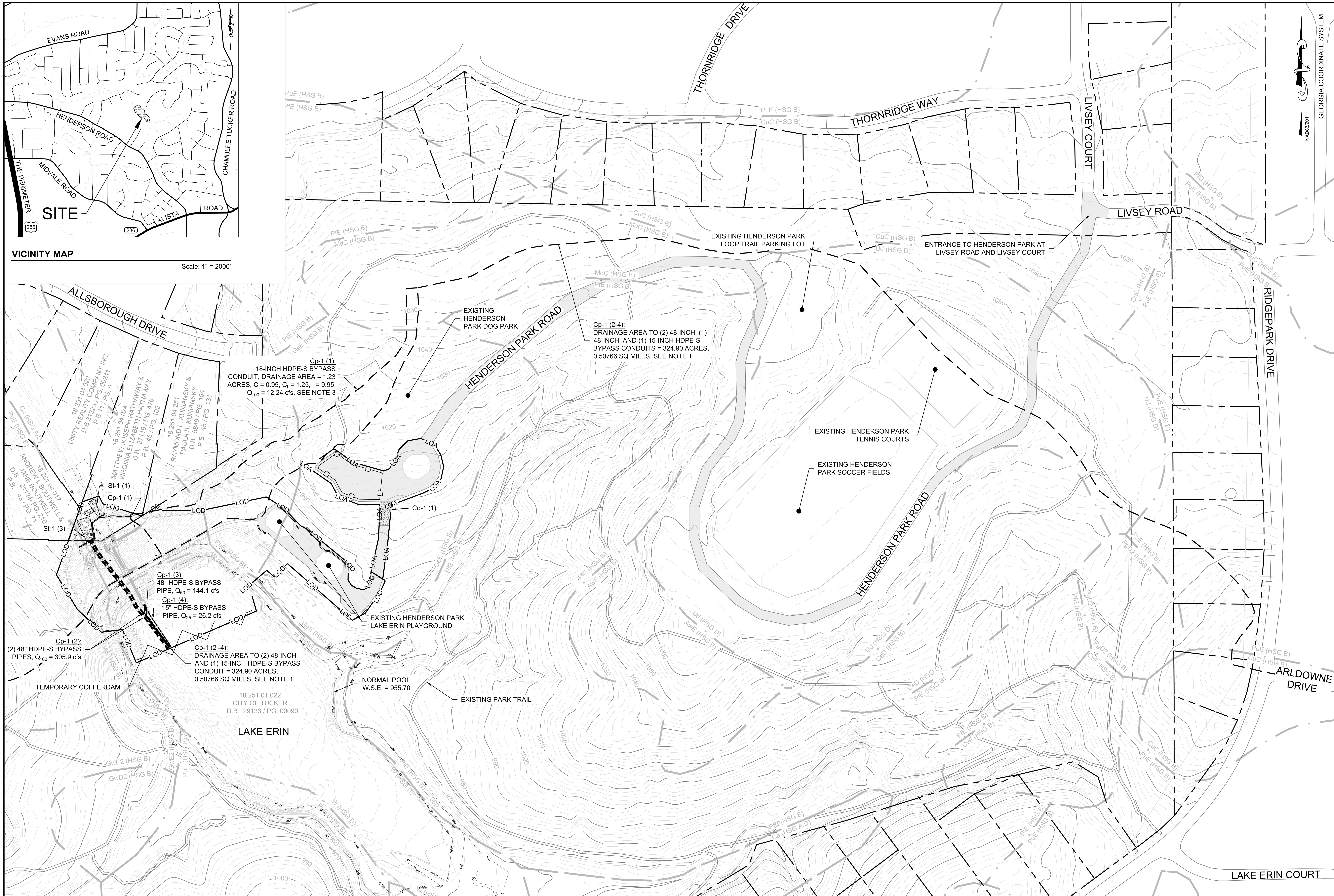
DRAWING TITLE

EROSION AND SEDIMENT CONTROL NOTES (3 OF 3)

SHEET NUMBER

C311

SHEET 42 OF 47



GPS LOCATION OF CONSTRUCTION EXIT	
LATITUDE	LONGITUDE
33°52'02.3"N	- 84°13'43.3"W

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY ____________________

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

NOTES:
1. SEE APPENDIX A AND C OF THE BASIS OF DESIGN REPORT FOR THE COMPLETE WATERSHED MAP AND HYDRAULIC DESIGN CALCULATIONS, RESPECTIVELY.
2. DRAINAGE PATTERNS AND PARAMETERS REMAIN THE SAME FROM PRE- TO POST-DEVELOPMENT CONDITIONS AND DOES NOT INCREASE RUNOFF OR EROSION. THERE WILL BE NO QUANTIFIABLE NEW OR ADDED IMPERVIOUS AREA FOR THIS PROJECT.
3. SEE APPENDIX C OF THE BASIS OF DESIGN REPORT FOR RATIONAL METHOD CALCULATIONS AND ASSUMPTIONS.

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

TUCKER, GEORGIA · Established 1892 · Incorporated 2016

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING ______ DATE BY

ISSUED FOR CONSTRUCTION ______ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

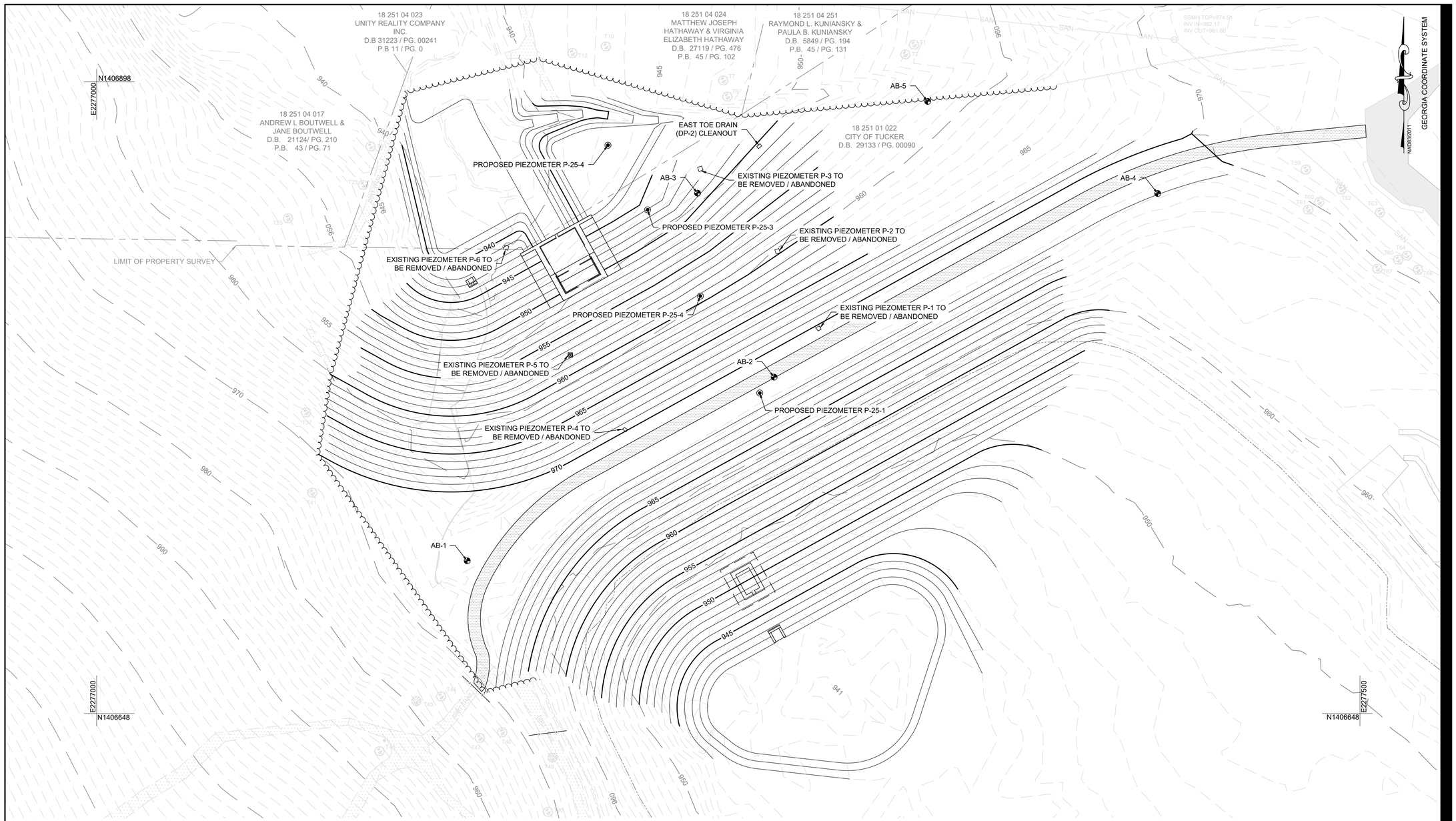
AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL DRAINAGE MAP

SHEET NUMBER

C312



BORING REFERENCE TABLE						
BORING	GROUND SURFACE ELEVATION (FT)	NORTHING	EASTING	LATITUDE	LONGITUDE	BORING DEPTH (FT)
AB-1	969	1406712.375	2277147.032	33.8671	-84.2307	18.5
AB-2	968	1406791.693	2277279.083	22.8673	-84.2303	46.0
AB-3	942	1406880.962	2277234.674	33.8675	-84.2304	26.0
AB-4	969	1406867.725	2277426.385	33.8675	-84.2298	46.0
AB-5	960	1406876.421	2277335.013	33.8676	-84.2301	36.0

SUMMARY OF SUBSURFACE CONDITIONS						
BORING	GROUND SURFACE ELEVATION (FT)	DEPTH TO PWR (FT)	PWR ELEVATION (FT)	AUGER REFUSAL DEPTH	GW ELEVATION AFTER COMPLETION OF DRILLING	EXISTING FILL / ALLUVIUM (FT)
AB-1	969	8	961	8.5	N/E	6/0
AB-2	968	N/E	N/E	N/E	942	16/14
AB-3	942	22	920	N/E	931	12/0
AB-4	969	44	925	N/E	960	12/0
AB-5	960	N/E	N/E	N/E	942	10/0

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

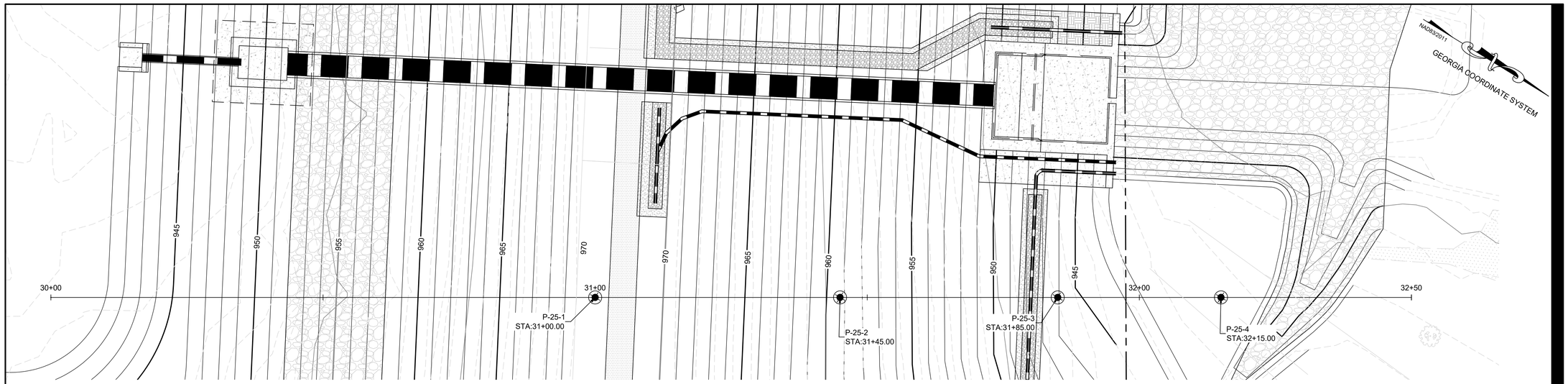
DRAWING TITLE

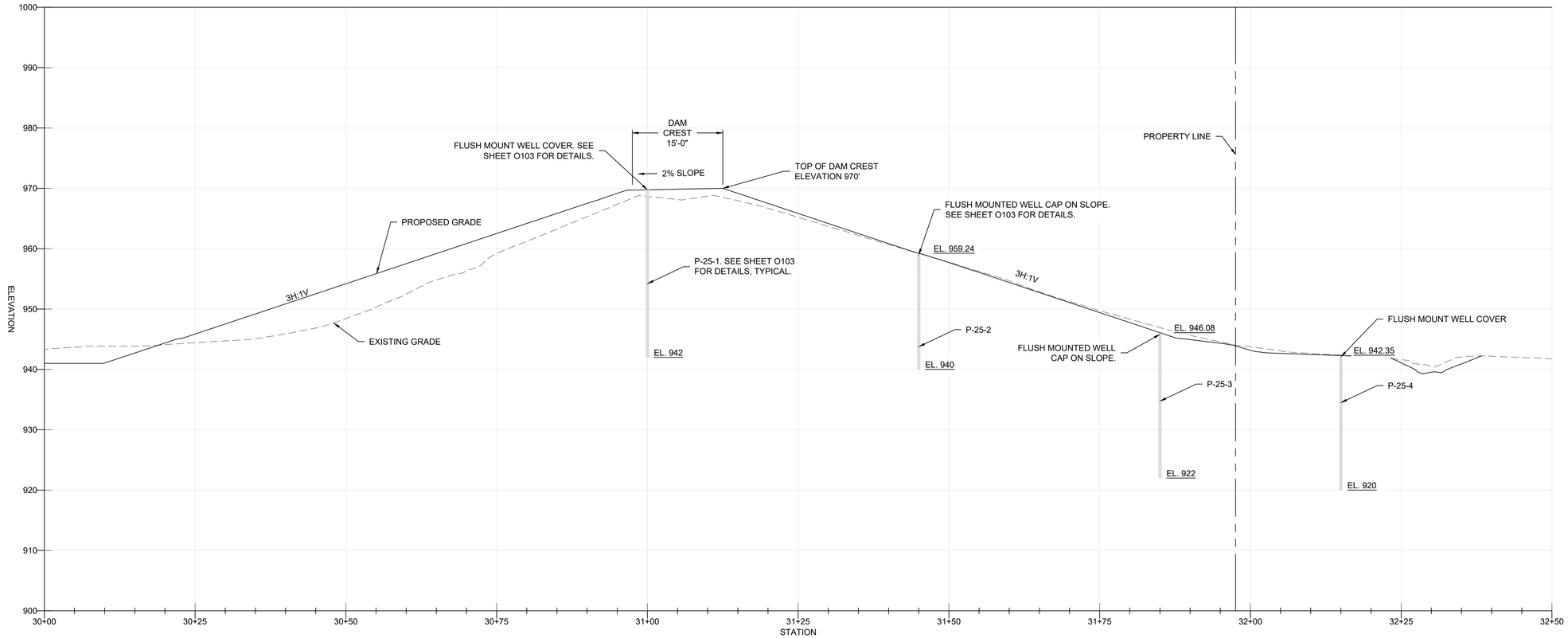
GEOTECHNICAL EXPLORATION AND INSTRUMENTATION LOCATION PLAN

SHEET NUMBER

O101

SHEET 44 OF 47





1 / O102 **PIEZOMETER ROW PROFILE**

Scale 1"=10'

PIEZOMETER SCHEDULE						
ID	STATION	FINISHED GRADE / TOP OF VAULT ELEVATION (FT)	TOP OF CASING ELEVATION (FT)	TOP OF SCREEN ELEVATION (FT)	BOTTOM ELEVATION (FT)	TOP TREATMENT
P-25-1	31+00	970.00	969.75	952.50	942.00	FLUSH MOUNT WELL COVER
P-25-2	31+45	959.20	958.98	950.50	940.00	FLUSH MOUNTED WELL CAP ON SLOPE
P-25-3	31+85	947.50	945.82	932.50	922.00	FLUSH MOUNTED WELL CAP ON SLOPE
P-25-4	32+15	942.00	942.10	925.50	920.00	FLUSH MOUNT WELL COVER

NOTES:
1. PIEZOMETERS P-25-1 AND P-25-2 TO TERMINATE WITHIN THE EMBANKMENT FILL. IF BEDROCK IS ENCOUNTERED PRIOR TO DESIGNED TERMINATION DEPTH, BACKFILL BORING WITH MIN 1-FOOT BENTONITE CHIPS PRIOR TO PLACEMENT OF SAND FOR PIEZOMETER BASE.
2. PIEZOMETER P-25-3 TO TERMINATE WITHIN FOUNDATION SOIL. IF BEDROCK IS ENCOUNTERED PRIOR TO DESIGNED TERMINATION DEPTH, PLACE MINIMUM OF 1-FOOT BENTONITE CHIPS AT BASE OF BORING PRIOR TO PLACEMENT OF SAND FOR PIEZOMETER.
3. PIEZOMETER P-25-4 TO BE PLACED WITHIN BEDROCK. BORING SHALL BE CORED MINIMUM 7.5 FEET IN BEDROCK FOR PIEZOMETER PLACEMENT, OR TO DEPTH APPROVED BY THE ENGINEER.

0 10' 20'
SCALE:1"=10'

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING ____ DATE ____ BY

ISSUED FOR CONSTRUCTION ____ DATE ____ BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

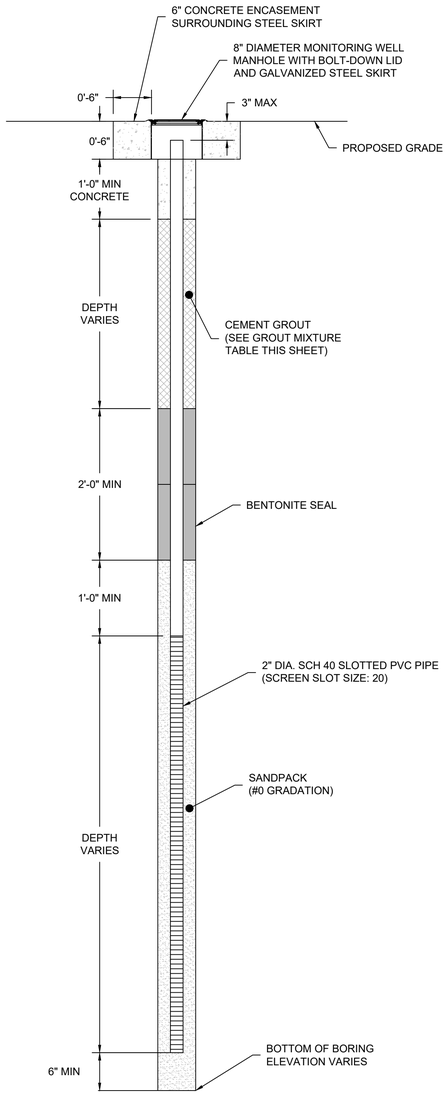
DRAWING TITLE

PIEZOMETER PLAN AND PROFILE

SHEET NUMBER

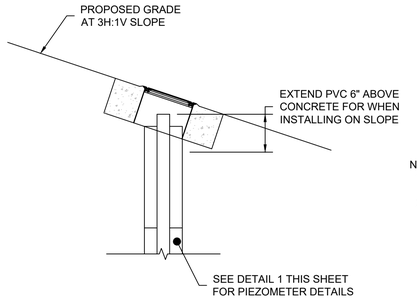
O102

SHEET 45 OF 47



1 O103 **TYPICAL STANDPIPE PIEZOMETER DETAIL**

Scale 1"=1'



2 O103 **PIEZOMETER ON SLOPE DETAIL**

Scale 1"=1'

NOTES
1. THE SLOPE OF THE FLUSH MOUNTED WELL CAP SHALL MATCH THE SURROUNDING GRADE.
2. PROVIDE MORRISON BROS. CO. MODEL NO. 418XA-0850 AM WELL CAP OR APPROVED EQUAL.

PIEZOMETER GROUT MIXTURE TABLE				
APPLICATION	GROUT FOR MEDIUM TO HARD SOILS		GROUT FOR SOFT SOILS	
MATERIALS	WEIGHT	RATIO BY WEIGHT	WEIGHT	RATIO BY WEIGHT
WATER	30 GALLONS	2.5000	74 GALLONS	6.6000
PORTLAND CEMENT	94 LBS. (1 SACK)	1.0000	94 LBS. (1 SACK)	1.0000
BENTONITE	25 LBS. (REQUIRED)	0.3000	39 LBS. (REQUIRED)	0.4000
NOTES	THE 28-DAY COMPRESSIVE STRENGTH OF THIS MIX IS ABOUT 50 PSI, SIMILAR TO VERY STIFF TO HARD CLAY.		THE 28-DAY COMPRESSIVE STRENGTH OF THIS MIX IS ABOUT 4 PSI, SIMILAR TO VERY SOFT CLAY.	

NOTES:
1. THE FINAL GROUT MIXTURE USED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. SLOTTED PVC PIPE AND SAND PACK SHALL BE SIZED TO PREVENT MOVEMENT OF MATERIAL AND MUST BE APPROVED BY THE ENGINEER.

AECOM

PROJECT

LAKE ERIN DAM
REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

PIEZOMETER
DETAILS

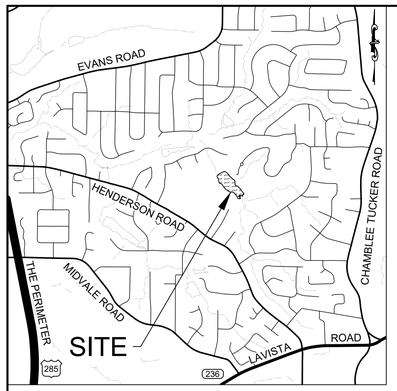
SHEET NUMBER

O103

SHEET 46 OF 47

ANSI D 22" x 34"

SOIL INFORMATION						
SOIL SYMBOL	SOIL TYPE	HSG RATING	SLOPE %	K	LIMITATION	REASONS FOR LIMITATION
Ca	CARTECAY SILT LOAM	A / D	0 - 2	0.20	SOMEWHAT LIMITED	CLAY CONTENT
GeE	GWINNETT SANDY LOAM	B	15 - 30	0.17	SOMEWHAT LIMITED	ORGANIC MATTER
PuE	PACOLET-URBAN LAND COMPLEX	B	10 - 25	0.17	SOMEWHAT LIMITED	ORGANIC MATTER
W	WATER	-	-	-	-	-



VICINITY MAP

Scale: 1" = 2000'

EROSION CONTROL CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

BY _____

MARLON JACKSON REGISTERED GEORGIA ENGINEER No. PE 026299
LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000064325

NOTES:

1. THE PROPOSED TURFGRASS SEED MIX AND PLANTING DATES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND SHALL MEET THE REQUIREMENTS OF SPECIFICATION 33 92 00 TURF AND GRASSES.

0 30' 60'
SCALE: 1"=30'

LAST SAVED BY: WEISA (2024-09-18) LAST PLOTTED: 2024-09-18
FILENAME: L:\DCS\PROJECTS\WTR\60727041_LAKEERIN\DAM\ENGINEERING\900_CAD_GIS\910_CAD\04_SHEETS\PLS-C401-LAKEERIN.DWG

AECOM

PROJECT

LAKE ERIN DAM REHABILITATION
DEKALB COUNTY, GEORGIA

CLIENT

CITY OF TUCKER
1975 LAKESIDE PKWY
SUITE 350,
TUCKER, GA 30084
770-865-5645 TEL
WWW.TUCKERGA.GOV

CONSULTANT

AECOM
12420 MILESTONE CENTER DRIVE
SUITE 150
GERMANTOWN, MD 20876
(301) 944-2545 TEL
WWW.AECOM.COM

REGISTRATION

GEORGIA REGISTERED No. PE042836 PROFESSIONAL ENGINEER ROBERT D. PINCIOTTI

GEORGIA REGISTERED No. 26299 PROFESSIONAL ENGINEER MARLON C. JACKSON

ISSUED FOR BIDDING _____ DATE BY

ISSUED FOR CONSTRUCTION _____ DATE BY

REVISIONS

NO.	DATE	DESCRIPTION

AECOM PROJECT NO:	60727041
DRAWN BY:	AJW/JES
DESIGNED BY:	JCG
CHECKED BY:	JBB
APPROVED BY:	RDP
PLOT DATE:	9/18/2024
SCALE:	AS SHOWN
ACAD VER:	2021

DRAWING TITLE

EROSION AND SEDIMENT CONTROL FINAL PHASE (4) / LANDSCAPE AND VEGETATION PLAN

SHEET NUMBER

C401

SHEET 47 OF 47