LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL CITY OF LAGRANGE, GEORGIA



BEGIN LAGRANGE THREAD **PHASE 8 - PANTHER PARK TRAIL** STA: 00+00.00 N 1103625.65 E 2026926.05

– BEGIN 10' WIDE TRAIL SPUR AT MAINLINE STA: 16+34.85 SPUR STA: 100+00.00

- END LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL STA: 24+26.96 N: 1101606.48 E: 2026921.26

PLANS PREPARED BY:





INDEX OF SHEETS

GENERAL COVER SHEET (THIS SHEET) **GN-01 GENERAL NOTES**

COMPOSITE MAP CM-01 COMPOSITE MAP

TOPOGRAPHIC SURVEY S-01 TOPOGRAPHIC SURVEY S-02 TOPOGRAPHIC SURVEY S-03 TOPOGRAPHIC SURVEY S-04 TOPOGRAPHIC SURVEY

TYPICAL SECTIONS TS-01 TYPICAL SECTIONS

CONSTRUCTION PLANS CP-01 CONSTRUCTION PLAN

CP-02 CONSTRUCTION PLAN CP-03 CONSTRUCTION PLAN CP-04 CONSTRUCTION PLAN

STORM SEWER PROFILES SP-01 STORM SEWER PROFILES

SIGNING AND MARKING PLANS SM-00 SIGNING AND MARKING DETAILS

SM-01 SIGNING AND MARKING PLAN SM-02 SIGNING AND MARKING PLAN SM-03 SIGNING AND MARKING PLAN SM-04 SIGNING AND MARKING PLAN

LANDSCAPE PLANS LN-01 LANDSCAPE NOTES

LP-01 LANDSCAPE PLAN LP-02 LANDSCAPE PLAN LP-03 LANDSCAPE PLAN LP-04 LANDSCAPE PLAN LD-01 PLANTING DETAILS

CONSTRUCTION DETAILS CD-01 CONSTRUCTION DETAIL **CD-02 CONSTRUCTION DETAIL**

CD-03 CONSTRUCTION DETAIL CD-04 CONSTRUCTION DETAIL **CD-05 CONSTRUCTION DETAIL**

EROSION AND SEDIMENT CONTROL PLANS EC-01 EROSION CONTROL PLAN EC-02 EROSION CONTROL PLAN EC-03 EROSION CONTROL PLAN EC-04 EROSION CONTROL PLAN ED-01 EROSION CONTROL DATA ED-02 EROSION CONTROL DETAILS EN-01 EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES **EN-02 EROSION, SEDIMENTATION** AND POLLUTION CONTROL NOTES

ISSUE FOR PERMI 100%05/08/2020

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2020-196

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NOTE: NONE OF THE DISTURBED AREA IS WITHIN THE FEMA 100 YEAR FLOOD HAZARD ZONE.

SITE DATA

TOTAL SITE AREA = 1.82 ACRE DISTURBED AREA = 3.4 ACRE

NPDES FEE = \$272 (\$80/ACRE) STATE AMOUNT = \$272 (\$80/ACRE)

LAND LOTS: 115 and 142 - DISTRICT 6

24-HOUR CONTACTS:

CONTACTS

PATH FOUNDATION JONATHAN McCAIG - 24 HOUR CONTACT GA GSWCC LEVEL 1 CERTIFICATION # 58893 EXP. 08/17/2021 office 404-875-7284 x5 cell 404-433-1900

EROSION & SEDIMENT CONTROL

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 DISTURBANCE ACTIVITIES.

2. 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.

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

4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ON-SITE INSPECTOR.

5. EROSION AND SEDIMENT MEASURES AND PRACTICES TO BE INSPECTED DAILY.

6. ALL INSPECTION, MONITORING, AND REPORTING SHALL BE PERFORMED AS REQUIRED BY NPDES PERMIT AND BY PROJECT EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS SHOWN HEREON WITH THE CONSTRUCTION DRAWINGS AND EXISTING BUILDINGS PRIOR TO ANY CONSTRUCTION AND SHALL PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

2. PROPOSED CONTOURS AND SPOT ELEVATIONS REPRESENT FINAL GRADE. PROPOSED GRADE ELEVATIONS SHOWN WITHIN PAVED AREA REPRESENT TOP OF PAVEMENT ELEVATIONS. CONTRACTOR SHALL ALLOW FOR PAVEMENT THICKNESS, TOPSOIL, BASE COURSE, SLABS, ETC. WHEN GRADING TO SUBGRADE ELEVATIONS.

3. DIMENSIONS ARE TO BACK OF CURB, CENTER OF STRUCTURE AND CENTER LINE OF COLUMN LINE, UNLESS OTHERWISE NOTED. ANGLES SHOWN ON STORM AND SANITARY SEWER ARE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED.

4. CALL BEFORE YOU DIG 811. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION. IF UNCHARTED UTILITIES ARE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IMMEDIATELY FOR INSTRUCTIONS. ANY DAMAGE OR INTERRUPTION OF EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY AT THE CONTRACTOR'S EXPENSE.

5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED DISTURBANCE SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE DRAWINGS WITHOUT APPROVAL IN WRITING FROM THE PROJECT LANDSCAPE ARCHITECT.

6. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES, LIGHTS, WARNING SIGNS, AND OTHER TRAFFIC CONTROL METHODS ADJACENT TO EXISTING ROADWAYS AND PARKING AREAS AS MAY BE REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRAFFIC CONTROL MEASURES UTILIZED WITHIN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL CONSTRUCTION ELEMENTS, WITH SOME FIELD ADJUSTMENTS AS NECESSARY BY THE LANDSCAPE ARCHITECT. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT TRAIL AND AMENITY CONSTRUCTION COMPLIES WITH AASHTO REQUIREMENTS, PARTICULARLY WITH RESPECT TO TRAIL CROSS-SLOPES AND GRADIENTS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY AND PERMANENT GROUNDWATER CONTROL DURING CONSTRUCTION, AS WELL AS PROVISIONS FOR CONTROLLING SURFACE WATER RUN-OFF, IN ORDER TO PREVENT PONDING IN OPEN EXCAVATIONS AND POTENTIAL UNDERMINING OF PERMANENT CONSTRUCTION FEATURES.

9. EARTHWORK OPERATIONS AND SOIL COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND DRAWINGS. PRIOR TO POURING CONCRETE, EARTHWORK SHALL BE CLEAR OF DEBRIS AND MACHINE COMPACTED. CONSTRUCTION ACTIVITIES SHALL BE MONITORED BY A GEOTECHNICAL CONSULTING FIRM APPROVED BY THE OWNER TO VERIFY THAT EARTHWORK, WALL CONSTRUCTION, AND OTHER OPERATIONS CONFORM WITH THE CONTRACT DOCUMENTS. GEOTECHNICAL SERVICES SHALL BE AT THE COST OF THE CONTRACTOR.

SYSTEM (WEST ZONE).

11. DEMOLITION DEBRIS SHALL BECOME PROPERTY OF THE CONTRACTOR AND WASTE SOILS, VEGETATION, AND OTHER DELETERIOUS MATERIALS SHALL BE HAULED OFF-SITE AND BE DISPOSED OF AT AN APPROVED LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BURNING WILL NOT BE ALLOWED ON THIS PROJECT.

12. EROSION CONTROL MEASURES AND OTHER SITE ISSUES SHALL BE INSPECTED AND MAINTAINED BY CONTRACTOR THROUGHOUT CONSTRUCTION.

13. ON ALL AREAS WHERE ROADWAYS, CONCRETE TRAILS, RETAINING WALLS, OR OTHER STRUCTURES ARE TO BE CONSTRUCTED ON COMPACTED SUBGRADE, FOUNDATION SOILS SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL CONSULTING FIRM PRIOR TO THE PLACEMENT OF CONCRETE, AGGREGATE BASE, OR FILL MATERIALS

14. CONSTRUCTION ACCESS POINTS ARE APPROXIMATE LOCATIONS AND MUST BE FIELD VERIFIED AND APPROVED BY CITY OF LAGRANGE.

15. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2013 STANDARD SPECIFICATIONS AND THE 2016 SUPPLEMENTAL SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION, THE 2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, THE ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY STANDARDS, AND AS MODIFIED BY CONTRACT DOCUMENTS.

16. ALL CONCRETE TO BE USED FOR THE CONSTRUCTION OF TRAILS TO BE CLASS 'A' CONCRETE.

17. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH TROUP COUNTY, CITY OF LAGRANGE, GEORGIA AND WEST INC., PATH FOUNDATION, AND KAIZEN COLLABORATIVE PRIOR TO BEGINNING CONSTRUCTION.

18. NOTICE: IT IS THE OWNER'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING

AUTHORITIES. 19. CONTRACTOR TO CONTACT KAIZEN COLLABORATIVE FOR ALL CONSTRUCTION STAKING CAD DATA.

TRAIL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING MINIMUM GRADES ALONG THE TRAIL. TRAIL LONGITUDINAL GRADES SHALL NOT EXCEED 5% PERCENT (EXEMPTION WHEN TRAIL FOLLOWS ROAD GRADE), WITH SHORT 200 FT MAXIMUM LENGTH AREAS OF UP TO 8.33% GRADE ALLOWED. (REF: GDOT PEDESTRIAN AND STREETSCAPE GUIDE, PAGE 83). TRAIL CROSS SLOPE SHALL BE MINIMUM 1%, MAXIMUM 2%.

TRAIL.

3. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING OF ALL UNDERSTORY VEGETATION WITHIN 10' FROM CENTERLINE OF TRAIL. CLEARING AREA MAY INCREASE WHERE INVASIVE PLANTS ARE LOCATED. CONTRACTOR SHALL CONFIRM VEGETATION TO BE CLEARED WITH LANDSCAPE ARCHITECT AND PROJECT ENGINEER PRIOR TO CLEARING.

4. ALL SIGNING & MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

5. ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND MEET GDOT SPECIFICATIONS UNLESS SPECIFIED OTHERWISE BY CITY. TRAIL & PARKING LOT PAVEMENT MARKINGS TO BE PAINT, UNLESS SPECIFIED OTHERWISE BY CITY.

CONSTRUCTION NOTES

1. TRAIL BACKFILL DIRT SHALL BE CLEAN, COHESIVE CLAY OR SANDY CLAY FREE OF DEBRIS, ORGANICS, DELETERIOUS MATERIAL AND ROCKS GREATER THAN 3" DIAMETER.

2. DESIRABLE GRADED SLOPES ARE TO BE 3:1 (H:V) OR FLATTER. MAX CUT OR FILL SLOPES SHALL BE 2:1 (H:V), UNLESS SPECIFICALLY NOTED.

3. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN. TREE SAVE AREAS SHALL NOT BE USED FOR STORAGE OR PARKING. EQUIPMENT AND MATERIAL SHALL NOT BE STORED WITHIN THE DRIP LINE OF TREES.

4. CONTRACTOR TO VERIFY THE ELEVATIONS OF ALL TIE-IN POINTS FOR INSTALLATION OF UTILITIES, CURB & GUTTER AND PAVING.

5. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE OPTIMUM COMPACTION FOR ANY SOIL CLASSIFICATION AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-180 METHOD "A". THE TOP 2 FEET OF ALL AREAS TO RECEIVE PAVEMENT SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE CLEAN AND FREE OF ROOTS, ROCK OR DELETERIOUS MATTER. CONTRACTOR SHALL CORRECT ANY DAMAGE TO CURBING OR PAVING CAUSED BY TRENCH SETTLEMENT WHICH OCCURS WITHIN 12 MONTHS OF PROJECT ACCEPTANCE.

6. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PROMPTLY UPON DISCOVERY.

7. ALL EXISTING ELECTRICAL BOXES, WATER METER BOXES, AND VALVE BOXES, WHICH ARE TO REMAIN SHALL BE SET FLUSH WITH THE TOP OF THE PROPOSED GRADE.

8. AREAS INTENDED TO SUPPORT PAVEMENT OR NEW FILL SHALL BE PROOF ROLLED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER TO LOCATE WEAK, SOFT OR EXCESSIVELY WET MATERIALS. AREAS WHICH PUMP WHILE PROOF ROLLED SHALL BE UNDERCUT AND BACK-FILLED AS DIRECTED BY GEOTECHNICAL ENGINEER.

9. CRUSHED STONE AGGREGATE IN PAVEMENT BASE SHALL CONFORM WITH SECTION 815 OF THE STATE OF GEORGIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS. ALL ASPHALT MATERIAL AND PAVING OPERATIONS SHALL MEET APPLICABLE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION.

10. ALL FILL AREAS MUST BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR. THE TOP 2 FEET OF ALL AREAS TO RECEIVE PAVEMENT SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY. A REPORT FROM A GEOTECHNICAL ENGINEER WILL BE REQUIRED FOR ALL FILL AREAS WITHIN THE RIGHT-OF-WAY.

11. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS DISTURBED AREA AND INTO DRAINAGE FEATURES.

10. THE TOPOGRAPHIC SURVEY INFORMATION HAS BEEN PROVIDED BY GEORGIA AND WEST INC., (770) 834-4694, AND IS REFERENCED TO THE GEORGIA STATE PLANE COORDINATE

2. THE LAYOUT OF THE TRAIL IS SHOWN IN RELATION TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LAYOUT WITH OWNER PRIOR TO CONSTRUCTION OF

CONSTRUCTION LEGEND

PROPOSED TRAIL AND

BRIDGE CROSSINGS

PROPOSED CROSSWALK

PROPOSED FENCELINE

EXISTING FENCELINE

PROPOSED STRUCTURAL SLAB

PROPOSED DEMOLITION ITEM

EXISTING CONTOUR ELEVATION

PROPOSED MINOR CONTOUR

PROPOSED MAJOR CONTOUR

PROPOSED PIPE AND CULVERT

EXISTING GRAVEL DRIVE

PROPOSED BOLLARDS

SHEET MATCHLINE

LAND LOT LINE

EXISTING SPOT ELEVATION

PROPOSED LIMITS OF DISTURBANCE

CENTERLINE

— — — L.O.D.— — —

_____X____X____

- <u>- - - 832</u> _ _

> 842 840

000

×_______832.41

MATCHLINE STA 7+00

PROPERTY LINE _____

∠
¶ 1034 CATCH BASIN 1019A DROP INLET 1011A JUNCTION BOX 1019A TYPE E CURB INLET TRAFFIC FLOW 1125 HEADWALL → DRAINAGE SLOPE S SEWER MANHOLE T PROPOSED FIRE HYDRANT LAMP POST - GUY POLE

UTILITY POLE

LEGEND WATER VALVE GAS VALVE HANDICAPPED PARKING -UGP-UNDERGROUND POWER -UGC-UNDERGROUND CABLE -SS-SANITARY SEWER ----FM---- FORCE MAIN STORM DRAIN

-SF- SILT FENCE -O-O- CHAIN LINK FENCE -x-x- EXISTING FENCE -100- PROPOSED CONTOUR EXISTING CURB & GUTTER PROPOSED CURB & GUTTER X 1010 EXISTING SPOT ELEVATION

⊗ 1010 PROPOSED SPOT ELEVATION





DATE DESCRIPTION 03/17/2020 50% REVIEW 04/21/2020 90% REVIEW 05/08/2020 100% ISSUE FOR PERMIT PROJECT # 2020-196

PROJECT MANAGER | NS

LAGRANGE THREAD PHASE 8 -PANTHER PARK TRAIL LAGRANGE, GA



GENERAL NOTES

SCALE DATE

SHEET #

MAY 8, 2020

GN-01

Sheet 01



Sheet 02

10' WIDE MULTI-USE TRAIL —



END LAGRANGE THREAD PHASE 8 — - PANTHER PARK SPUR SPUR STA: 107+41.31 N: 1101822.83 E: 2026513.56



	KAIZENCOLLABORATIVE	2390 MAIN STREET TUCKER, GEORGIA 30084 404.239.2521	ENGINEERING LAND SURVEYING.	105 CORPORATE DRIVE OFFICE (770) 834-4694 FAX CARROLLTON, GA. 30117 (770) 834-1005 E-MAIL: mailbox@georgiaandwest.com
	DA 03/17	TE /2020	DESCRIPTIO 50% REVIEV	IN V
		/2020 /2020 1009 /2020 1009 ///////////////////////////////////	90% REVIEV % ISSUE FOR F 2020-196 NS READ PHAS PARK TRAIL NGE, GA	V PERMIT
480	SHEET #	1" = 120' MAY 8, 202	SITE MAF	>

- BEGIN 10' WIDE TRAIL SPUR AT



(IN FEET) 1 inch = 120 feet













NOTE: ALL UTILITIES SHOWN ARE APPROXIMATE. UTILITY LOCATIONS OBTAINED FROM UTILITIES PROTECTION CENTER, INC. BEWARE OF UNDERGROUND UTILITIES NOT SHOWN.



Know what's below. Call before you dig.



13285C0141E THE F.I.R.M. PANEL <u>13285C0143E</u>_____DATE <u>07/03/2012</u> INDICATES THIS PROPERTY OR A PORTION <u>IS NOT</u> LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS. THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND FIRM PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.

		TREE	LEGEND		
MA=maple	O=oak	WA=walnut	SG=sweetgum	CH=cherry	HK=hickory
PC=pecan	MI=mimosa	BH=beech	PI=pine	PO=poplar	SW=sourwood
GI=ginko	SM=sycmore	BE=boxelder	C=cedar	HB=hackberry	CW=cottonwood
UK= unk hardwood	DW=dogwood	PE=pear	BI=birch	MG=magnolia	BG=black gum

			LEGEND		
2	1033 CATCH BASIN		OVERGROUND DOWNSPOUT	—SB—	SEDIMENT BARRIER
<u></u>] ∮ ⊖ ⇔ ∰ @ 1	1033 CATCH BASIN 1034 CATCH BASIN 1019A DROP INLET 1011A JUNCTION BOX 1019A TYPE E CURB INLET 1125 HEADWALL DRAINAGE SLOPE SEWER MANHOLE EXISTING FIRE HYDRANT PROPOSED FIRE HYDRANT LAMP POST GUY POLE UNITED POLE	ןאַע פּאַ אַייע אַראָראָע אַראָערע אַראָערעעעעעעעעעעעעעעעעעעעעעעעעעעעעעעעעע	OVERGROUND DOWNSPOUT WATER VALVE GAS VALVE HANDICAPPED PARKING TRAFFIC FLOW UNDERGROUND POWER OVERHEAD POWER UNDERGROUND TELEPHONE OVERHEAD TELEPHONE WATER SANITARY SEWER FORCE MAIN GAS STORM DRAIN	SB	SEDIMENT BARRIER TREE PROTECTION FENCE CHAIN LINK FENCE EXISTING FENCE PROPERTY LINE EXISTING CONTOUR PROPOSED CONTOUR EXISTING CURB & GUTTER PROPOSED CURB & GUTTER EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION PROPOSED SPOT ELEVATION EXISTING WATER METER IRRIGATION CONTROL VALVE MAILBOX GAS METER POWER METER

N/F TROUP COUNTY – HEALTH DEPT. D.B. 1431 PG. 27

EXIST.

JUNIPER

4" BOLLARD

MATCH LINE C

— EXIST. G.I. THROAT 727.15 INV. IN 724.46(N)

INV. OUT 724.25(S)





N/F CALLAWAY FOUNDATION INC. D.B. 1377 PG. 694

EXIST. C.B. – THROAT 725.23 INV. IN 721.43 INV. OUT 721.28 L EXIST. C.B. RIM 726.22 INV. IN 722.99 INV. OUT 722.88

Exist. _____ Dumpster

🔁 18" 0

😚 18" MG





NOTES: 1. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A STATE APPROVED LANDFILL FORREST PLACE 2. RELOCATE ALL EXISTING ROAD SIGNS TO MIDDLE OF LANDSCAPE BUFFER, UNLESS OTHERWISE NOTED ON PLANS 3. ALL TREES THAT HAVE NOT BEEN MARKED ON THESE PLANS WITH AN "X" SHALL BE PROTECTED ON SITE DURING CONSTRUCTION FROM ANY AND ALL DAMAGE. 3.1. ALL PROTECTED TREES THAT FALL NEAR OR WITHIN THE LIMITS OF DISTURBANCE SHALL BE PROTECTED WITH TREE PROTECTION FENCING, AND CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGE TO ANY PROTECTED OR "REMAINING" TREES DURING CONSTRUCTION TRASH RECEPTACLE DETAIL TYP. CD-02 $\left(\frac{6}{\text{CD-02}}\right)$ BENCH DETAIL TYP. POCKET PARK $\begin{pmatrix} 7 \\ CD-01 \end{pmatrix}$, ÁP 718.5 — N/F CALLAWAY FOUNDATION INC D.B. 371 PG. 759 🤁 26" O 12' MULTI-USE TRAIL, TYP $\left(\frac{1}{CD-01}\right)$ ROOT BRIDGING (HATCHED AREA), TYP. $\left(\frac{b}{CD-01}\right)$ EXISTING TREE CRITICAL ROOT ZONE, TYP. 3,26" LP: 713.0 🔨 712.0 🔨 CONTRACTOR TO REMOVE - 12'-0" ไ EXISTING STUMP (05) S05 CALDAWAY FOUNDATION INC D.B. 371 PG. 759 ₩ 22^P M 5¥00& TIE TO EXIST. PIPE 🔨 🖁 INV. 736.38 EXIST. (DEST. UNK MATCHLINE STA 5+50 SEE SHEET CP-02





N/F LAGRANGE COLLEGE – AUDITORIUM–NATATORIUM D.B. 605 PG. 87 - FUTURE TRAIL & ROADWAY MODIFICATIONS, SHOWN FOR REFERENCE ONLY. NOT IN THIS CONTRACT REMOVE EXISTING STOP BAR

(1-4) CD-02) STANDARD INTERSECTION DETAIL

- BEGIN LAGRANGE THREAD - PHASE 8

 \rightarrow SAW CUT AND REMOVE EX. CURB AND PAVEMENT TO CD-03 NEAT LINES & CURVES, CONSTRUCT NEW 6" CONC. HEADER CURB, TIE BACK INTO EXISTING AS SHOWN





CP-01

SHEET #







1. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A

2. RELOCATE ALL EXISTING ROAD SIGNS TO MIDDLE OF LANDSCAPE BUFFER, UNLESS OTHERWISE NOTED ON PLANS 3. ALL TREES THAT HAVE NOT BEEN MARKED ON THESE PLANS WITH AN "X" SHALL BE PROTECTED ON SITE DURING

3.1. ALL PROTECTED TREES THAT FALL NEAR OR WITHIN THE LIMITS OF DISTURBANCE SHALL BE PROTECTED WITH TREE PROTECTION FENCING, AND CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGE TO ANY PROTECTED OR **"REMAINING" TREES DURING CONSTRUCTION**

Ŭ, $\overline{\mathbf{O}}$ Key Map DESCRIPTION DATE 03/17/2020 50% REVIEW 04/21/2020 90% REVIEW 05/08/2020 100% ISSUE FOR PERMIT PROJECT # 2020-196 PROJECT MANAGER | NS LAGRANGE THREAD PHASE 8 -PANTHER PARK TRAIL LAGRANGE, GA **CONSTRUCTION PLAN** 1" = 30' - 0" SCALE DATE MAY 8, 2020 **CP-03** SHEET #

ATIVE

ABOR

TROUP COUNTY - CALLAWAY STADIUM & CITY OF LAGRANGE D.B. 605 PG. 489

GRAPHIC SCALE (IN FEET) 1 inch = 30 feet



- ASTM B 209 (B 209M), ALLOY 6061-T-6 OR 5052-H38.
- **RIGHT-OF-WAY**:

RETRO REFLECTIVE VINYL PRODUCT NAME

3M[™] High Intensity Reflect ORALITE[®] 5800 High Intens OTHER PRODUCTS MUST BI MANAGEMENT BEFORE US

ALL REFLECTIVE SIGNS MUST INCLUDE ANTI-GRAFFITI LAMINATE OF AT LEAST 10-YEAR LIFE EXPECTANCY. PLEASE SEE THE FOLLOWING TABLE FOR **RECOMMENDED PRODUCTS FOR ANTI-GRAFFITI LAMINATE:**

ANTI-GRAFFITI FILMS: PRODUCT NAME

3M[™] Protective Overlay File OTHER PRODUCTS MUST BE MANAGEMENT BEFORE USE

CUSTOM TEXT AND GRAPHICS: PRODUCT NAME

Direct Print to Aluminum w Grip Gard BC System with s OTHER PRODUCTS MUST BE MANAGEMENT BEFORE USE

- MATCH STANDARD DIE CUT CURVES ON THE CORNERS.
- 6. PATH GREEN IS 85 20 69 4 IN CMYK VALUES. YELLOW ON PATH SIGNS IS 0 - 15 - 100 - 0. MATRIX.

SIGN MANUFACTURERS:

1.

PATH FOUNDATION SIGN SPECIFICATIONS 1. ALUMINUM SIGN BLANKS SHOULD MEET REQUIREMENTS OF GEORGIA DOT SECTION 912--SIGN BLANKS AND PANELS. ALL SIGNS TO BE MADE WITH AT LEAST 0.125-INCH THICK ALUMINUM USING METAL THAT MEETS THE REQUIREMENTS OF

2. SIGNS LOCATED WITHIN RIGHT-OF-WAY SHALL USE RETROREFLECTIVE VINYL WITH AT LEAST 10-YEAR LIFE EXPECTANCY AND FOLLOW THE FEDERAL HIGHWAY ADMINISTRATION (FHA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SPECIFICATIONS. PLEASE SEE THE FOLLOWING TABLE FOR **RECOMMENDED PRODUCTS FOR RETROREFLECTIVE VINYL SIGNS WITHIN THE**

	LIFE EXPECTANCY
ive Sheeting	10YR
ity Grade Reflective Sheeting	10YR
E APPROVED BY PATH PROJECT	
E	AT LEAST 10YR

	LIFE EXPECTANCY
n Series 1160	10YR
APPROVED BY PATH PROJECT	AT LEAST 10YR

3. ALL SIGNS MUST HAVE AT LEAST 10-YEAR LIFE EXPECTANCY, INCLUDING ANY CUSTOM TEXT AND GRAPHICS ON SIGNS. IF SIGN INCLUDES CUSTOM TEXT AND GRAPHICS ON ONLY ONE FACE, THEN THE BACK PANEL MUST BE BLACK WITH AT LEAST 10-YEAR LIFE EXPECTANCY. PLEASE SEE THE FOLLOWING TABLE FOR **RECOMMENDED PRODUCTS FOR CUSTOM TEXT AND GRAPHICS:**

	LIFE EXPECTANCY
ith	
atin, anti-graffiti clear-coat	10YR
E APPROVED BY PATH PROJECT	AT LEAST 10YR

4. ALL SIGNS MUST BE PRINTED WITH NAME BRAND INKS FROM THE PRINTING EQUIPMENT MANUFACTURER FOR THE PRINTER USED TO CREATE THE SIGN.

5. ON STANDARD SIGNS, THE BLACK BORDER IS INSET 3/8" FROM EACH EDGE. THE THICKNESS OF THE BLACK BORDER IS ALSO ¼", OR 18 POINT. SIGNS AT OR LARGER THAN 24" X 36" MAY COME FROM THE ARCHITECTURAL FIRM WITH LARGER BORDERS. THESE BORDERS MUST BE CONSISTENT ON ALL FOUR EDGES AND

OTHER COLORS WILL BE DETERMINED FROM THE VECTOR FILES IN THE SIGN

SIGN MANUFACTURER CONTACT TO BE APPROVED BY THE CITY.

KAIZENCOLLABORATIVE	2390 MAIN STREET TUCKER, GEORGIA 30084 404.239.2521	Image: Second
DA 03/17 04/21 05/08	TE /2020 /2020 //2000 //2000000 //2000 //2000 //2000 //2000 //2000 //2000 //2000 //2000 //200	DESCRIPTION 50% REVIEW 90% REVIEW 00% ISSUE FOR PERMIT
PROJECT PROJECT LAGRA PA	# MANAGET NGE TI NTHER LAGR	2020-196 R NS HREAD PHASE 8 - PARK TRAIL ANGE, GA
SCALE DATE SHEET #	NING DE AS S MAY 8, 2	& MARKING TAILS SHOWN 2020 SM-00

SHEET NOTES:

1. MUTCD SIGN PLACEMENTS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD CURRENT EDITION.

2. VEHICULAR WARNING SIGN W11-15 (24"x24"), PLAQUE W16-7pL (24"X12"), REGULATORY SIGN R1-1 (30"X30")

3. ALL NEW ROAD AND GDOT STD. CROSSWALK STRIPING TO BE THERMOPLASTIC ON ASPHALT AND PAINT ON CONCRETE

4. CONTRACTOR TO REQUEST VECTOR FILES FROM LANDSCAPE ARCHITECT PRIOR TO ORDERING. CONTRACTOR TO SUBMIT SHOP DRAWING FOR FINAL APPROVAL PRIOR TO FABRICATION

SEE SHEET SM-02

(IN FEET) 1 inch = 30 feet

GENERAL PLANTING NOTES

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS & DISEASES.

2. ALL PLANTS MUST BE CONTAINER-GROWN, BALLED & BURLAPPED (B&B), OR OTHERWISE AS INDICATED IN THE PLANT LIST.

3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL-HEADED & MEET ALL REQUIREMENTS SPECIFIED.

4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT & THE OWNER BEFORE, DURING & AFTER INSTALLATION UNTIL THE DATE OF FINAL ACCEPTANCE.

5. ALL TREES OVER 8' HT MUST BE GUYED OR STAKED, UNLESS DETERMINED OTHERWISE BY OWNER. ARBORTIE, ARBORGUY, OR APPROVED EQUAL BLACK GUYING (POLYPROPYLENE MATERIAL) AND STAKING SYSTEM INSTALLED PER MANUFACTURER SPECIFICATIONS.

6. ALL PLANTS & PLANTING AREAS MUST BE COMPLETELY MULCHED AS PER SPECIFICATIONS. ALL PROPOSED TREES TO HAVE MINIMUM 6' DIAMETER MULCHED RING. ALL MULCH TO BE 3" SETTLED DEPTH OF CLEAN PINESTRAW, UNLESS INDICATED OTHERWISE.

7. PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES & SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY & ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.

8. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. PLANT SYMBOLS ON THE LANDSCAPE PLAN SUPERCEDE QUANTITIES SHOWN IN THE PLANT LIST. IN SIZE GRADING B&B TREES, CALIPER SHALL TAKE PRECEDENT OVER HEIGHT. IN SIZE GRADING MULTI-STEM TREES, HEIGHT SHALL TAKE PRECEDENCE OVER CALIPER. THE LANDSCAPE CONTRACTOR MUST CONTACT THE LANDSCAPE ARCHITECT IF, THEY ENCOUNTER ON SITE, EXISTING CONDITIONS SIGNIFICANTLY DIFFERENT FROM THE PLAN.

9. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF PLANTING AREAS & LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE LANDSCAPE ARCHITECT & THE OWNER.

10. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO FINAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.

11. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF FINAL ACCEPTANCE. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS PER DIRECTION OF THE OWNER).

12. THE LANDSCAPE CONTRACTOR AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.

13. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.

14. STANDARDS SET FORTH IN 'AMERICAN STANDARDS FOR NURSERY STOCK' REPRESENT GUIDELINE SPECIFICATIONS ONLY AND CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL. ALL PLANT MATERIAL SHALL BE GRADE 'A' OR BETTER.

15. ALL DISTURBED AREAS TO BE SODDED WITH BERMUDA UNLESS OTHERWISE NOTED. TEMPORARY GRASS TO BE A COMBINATION OF ANNUAL RYE AND FESCUE SEED. ALL SOD AREAS ARE TO BE FERTILIZED AND OVERSEEDED AT TIME OF INSTALLATION. ALL AREAS DESIGNATED FOR SOD MUST BE FINE GRADED. LEVEL ANY UNDULATIONS OR IRREGULARITIES, WHILE MAINTAINING POSITIVE DRAINAGE. HANDRAKE AND SMOOTH, REMOVING ALL ROCKS LARGER THAN 1" FROM THE SURFACE. USE METAL SCREEN OR WOODEN DRAG ON LARGER SURFACES. CONTACT THE LANDSCAPE ARCHITECT FOR AN INSPECTION OF THE FINE GRADED SURFACE. PRIOR TO ANY SOD INSTALLATION.

16. ALL BERMS ARE TO BE CONSTRUCTED OF CLEAN, FRIABLE, WELL DRAINED, TOPSOIL.

17. FOR ALL PROPOSED PLANTING AREA, LANDSCAPE CONTRACTOR TO REMOVE EXISTING VEGETATION, TILL AND ADD TOPSOIL AND FERTILIZER PRIOR TO INSTALLATION. CONTRACTOR SHALL REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS. REMOVE COMPACTED SOIL, AND ADD 24" OF TOPSOIL; OR AMEND THE TOP 24" OF EXISTING SOIL TO MEET SPECIFICATIONS, UNLESS NOTED OTHERWISE.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL BINDING CORDS AND ROPES/STRAPPING FROM THE TRUNKS OF ALL SHADE AND ORNAMENTAL TREES IMMEDIATELY AFTER PLANTING. IDENTIFICATION TAGS AND RIBBONS SHALL BE REMOVED FROM ALL PLANT MATERIAL AT THE TIME OF PLANTING. TREE BASKETS SHALL BE CUT FROM THE TOP 1/4 OF THE ROOT BALL PRIOR TO PLANTING.

19. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE RE-SET TO FINAL GRADE AND VEGETATED PER CONSTRUCTION PLANS.

20. UNLESS OTHERWISE NOTED BY THE LANDSCAPE ARCHITECT, MEDIUM SPREADING SHRUBS SHALL BE PLANTED NO CLOSER THAN 30" TO ANY ADJOINING WALL OR PAVED AREA. LARGE SPREADING SHRUBS SHALL BE PLANTED NO CLOSER THAN 36" TO ANY ADJOINING WALL OR PAVED AREA.

21. THE PLANTING SOIL FOR SHRUBS WILL CONSIST OF 33% GROUND PINE BARK HUMUS, WELL-MIXED WITH 67% OF IMPROVED SOIL; WHICH IS, EXCAVATED SOIL WITH ROCKS, CLUMPS, AND DEBRIS GREATER THAN 2" IN DIAMETER REMOVED. NO ADDITIONAL SOIL AMMENDMENTS ARE REQUIRED FOR TREES. GROUNDCOVER AND PERENNIAL BEDS SHALL BE PREPARED AND AMENDED ACCORDING TO SPECIFICATIONS.

22. MINIMUM (9) SQ. FT. PLANTING AREA PROVIDED FOR EACH TREE.

23. SEEDING RATE FOR BERMUDA SEED ON DISTURBED AREAS IS 1.5 LBS PER 1000 SQUARE FEET.

24. ALL PARKING ISLANDS AND LANDSCAPE BEDS ARE REQUIRED TO HAVE A GRANULAR PRE-EMERGENT HERBICIDE APPLIED TO AID WITH WEED CONTROL.

BUILDERS NOTES:

BY THIS AGREEMENT WITH THE OWNER, THE LANDSCAPE ARCHITECT HAS UNDERTAKEN A LIMITED SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDERS PLANS" IN RECOGNITION OF THE SOPHISTICATION OF THE LANDSCAPE CONTRACTOR. CONSTRUCTION WILL REQUIRE THAT THE LANDSCAPE CONTRATOR ADAPT THE "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSIONS AND QUANTITY THAT ARE TREATED ONLY GENERALLY BY THE "BUILDERS PLANS." IN THE EVENT THAT CLARIFICATION IS NEEDED FOR ANY DRAWING CONTAINED IN THIS SET, IT SHALL BE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO BRING IT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE GENERAL CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL CONSTRUCT THIS PROJECT IN COMPLIANCE WITH ANY AND ALL APPLICABLE CODES.

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	MIN. SPACING	REMARKS
			TREES			
ARO	10	Acer rubrum 'October Glory'	October Glory Red Maple	3" cal.	25' o.c.	Full, upright and well branched
QN	6	Quercus nuttallii	Nuttall Oak	3" cal.	25' o.c.	Full, upright and well branched
GB	9	Ginkgo biloba	Ginkgo	3" cal.	25' o.c.	Full, upright and well branched
CF	11	Cornus florida	Flowering Dogwood	2.5" cal.	18' o.c.	Full, upright and well branched
CC	8	Cercis canadensis	Eastern Redbud	2.5" cal.	18' o.c.	Full, upright and well branched
			SHRUBS			
Ar	35	Abelia X 'Rose Creek'	Abelia 'Rose Creek'	3 gallon	3'-0" o.c.	Dense rounded form, good leaf color
Ri	32	Rhapiolepis indica	Indian Hawthorn	3 gallon	4'-0" o.c.	Dense rounded form, good leaf color
Мс	60	Muhlenbergia capillaris	Pink Muhly Grass	3 gallon	4'-0" o.c.	Dense clump form
	1		GROUND COVERS		1	
lm	350	Liriope muscari 'Big Blue'	Big Blue Liriope	1 gallon	12" o.c	Dense clump form
hs	70	Hemerocallis x 'Happy Returns'/	Happy Returns Daylily	1 gallon	18" o.c.	Good central bulb

KAIZENCOLLABORATIVE 2390 MAIN STREET TUCKER, GEORGIA 30084 404.239.2521	Construction
DATE 03/17/2020 04/21/2020 05/08/2020 100	DESCRIPTION 50% REVIEW 90% REVIEW % ISSUE FOR PERMIT
PROJECT # PROJECT MANAGER LAGRANGE TH PANTHER I LAGRA	2020-196 NS READ PHASE 8 - PARK TRAIL NGE, GA
No. 31674 PROFESSIONAL PROFESSIONAL M. ABBO 05/08/20	
SCALE DATE MAY 8, 20 SHEET # Image: state of the	PE NOTES 20 _N-01

PROVIDE 2' MIN. GRASS SHOULDER ON EITHER SIDE OF TRAIL 2. REFER TO LN-01 FOR PLANTING DETAILS AND FOR PLANT SCHEDULE

N/F LAGRANGE COLLEGE – AUDITORIUM–NATATORIUM D.B. 605 PG. 87

THIS SPACE INTENTIONALLY LEFT

1205 O2 Grate

Product Number

00120545 Design Features -Materials Gray Iron (CL35B) -Design Load Heavy Duty -Open Area . 185 sq In -Coating Undipped -- Designates Machined Surface

Certification - ASTM A48 - AASHTO M306 -Country of Origin: USA

Drawing Revision 05/10/2005 Designer: DEW 01/09/2014 Revised By: DAE

Disclaimer Weights (lbs./kg) dimensions (indhea/mm) and drawings provided for your guidanos. We reserve the right to modify specifications without prior notice. prior notice. CONFIDENTIAL: This drawing is the property of EJ GROUP, Inc., and embodies confidential information, registered marks, patents, trade secret information, and/or know how that is the property of EJ GROUP, Inc. Copyright © 2012 EJ GROUP, Inc. All rights reserved. Contact 800 626 4653 ejco.com

<section-header><section-header><section-header><text></text></section-header></section-header></section-header>	KAIZENCOLLABORATIVE
DATE DESCRIPTION 03/17/2020 50% REVIEW 04/21/2020 90% REVIEW 05/08/2020 100% ISSUE FOR PERMIT	DA 03/17 04/21 05/08
PROJECT # 2020-196 PROJECT MANAGER NS LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA	PROJECT PROJECT LAGRA PA
M. ABBOLING OS/08/20 CONSTRUCTION DETAILS SCALE AS SHOWN DATE MAY 8, 2020 SHEET # CD-05	CON SCALE DATE SHEET #

- NOTES: 1. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL BMP'S THROUGHOUT CONSTRUCTION.
- 2. FINAL STABILIZATION OF SITE SHALL BE COORDINATED WITH LANDSCAPE PLANS. FINAL STABILIZATION BMP'S SHOWN ON THIS PLAN MAY VARY FROM STABILIZATION PROPOSED IN LANDSCAPE PLAN.
- 3. CONTRACTOR TO REPAIR ALL DISTURBED SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER 4. ALL TEMPORARY EROSION CONTROL BMP'S (i.e.
- SEDIMENT BARRIER, INLET SEDIMENT TRAPS, CHECK DAMS. MULCH BERMS, FILTER SOCKS, ETC.) SHALL BE REMOVED FROM SITE UPON FINAL SITE STABILIZATION. 5. SEE MAINLINE PLAN SHEETS (CP SERIES) & STORM
- SEWER PROFILES (SP SERIES) FOR DETAILED STORM DRAINAGE AND PIPING INFORMATION. 6. ALL CONSTRUCTION ACCESS SHALL BE MAINTAINED IN
- A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. 9. CONTRACTOR SHALL COORDINATE CONSTRUCTION EXIT
- LOCATIONS WITH PATH FOUNDATION PROJECT MANAGER AND CITY OF LAGRANGE PRIOR TO CONSTRUCTION. 10. Sd1-S & Sd1-NS SEDIMENT BARRIERS MAY BE EITHER SILT FENCE OR FILTER MEDIA SOCK AS PER DETAILS
- SHOWN ON SHEET ED-01. 11. DUE TO THE NATURE OF THIS CONSTRUCTION PROJECT. A DESIGNATED RE-FUELING SITE IS IMPRACTICAL. CONTRACTOR SHALL USE EXTRA CARE WHEN REFUELING EQUIPMENT. CONTRACTOR SHALL NOT RE-FUEL EQUIPMENT WITHIN 200 FEET OF STATE WATERS. ANY ADJACENT STORM SEWER SYSTEMS OR DITCHES SHALL BE PROTECTED FROM SPILLS. ANY SPILL MADE MUST BE CLEANED UP ACCORDING TO THE REQUIREMENTS PROVIDED IN THE EROSION. SEDIMENTATION, & POLLUTION CONTROL NOTES.

north

AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS: PATH FOUNDATION ATTN: JONATHAN McCAIG TELEPHONE #: 404-433-1900

9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN

14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY

10. NON-COMPLIANT SITES CAN BE FINED UP TO \$2,500.00 DOLLARS

EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

13. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL

WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION

ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION

PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

15. 24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION

CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS

14. ANY AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A

SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT

REQUESTED IN WRITING AND THE EPD HAS AGREED TO AN

OF THE CONTROL MEASURES (BMP's) WHICH THE DESIGN

PER DAY, PER VIOLATION AS SET OUT BY THE EROSION AND

SEDIMENT CONTROL ACT. THE GEORGIA WATER QUALITY CONTROL

ACT PROVIDES FOR FINES UP TO \$50,000.00 DOLLARS PER DAY. PER

11. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-

12. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE,

FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF

WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES

SEEDING.

VIOLATION!

AND PERMITS.

NAMF

CONSTRUCTION MANAGEMENT PATH FOUNDATION JONATHAN McCAIG - 24 HOUR CONTACT GA GSWCC LEVEL 1 CERTIFICATION # 58893 EXP. 08/17/2021 office 404-875-7284 x5 cell 404-433-1900

TROUP COUNTY ATTN: ERIC MOSLEY 100 RIDLEY AVENUE LaGRANGE, GA 30240 706-883-1610 emosley@troupcountyga.gov

SCALE | 1" = 30' MAY 8, 2020 **EC-01**

DATE

SHEET #

 NOTES: NOTES: CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL BMP'S THROUGHOUT CONSTRUCTION. FINAL STABILIZATION OF SITE SHALL BE COORDINATED WITH LANDSCAPE PLANS. FINAL STABILIZATION BMP'S SHOWN ON THIS PLAN MAY VARY FROM STABILIZATION PROPOSED IN LANDSCAPE PLANS. CONTRACTOR TO REPAIR ALL DISTURBED SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER ALL TEMPORARY EROSION CONTROL BMP'S (i.e. SEDIMENT BARRIER, INLET SEDIMENT TRAPS, CHECK DAMS, MULCH BERMS, FILTER SOCKS, ETC.) SHALL BE REMOVED FROM SITE UPON FINAL SITE STABILIZATION. SEE MAINLINE PLAN SHEETS (CP SERIES) & STORM SEWER PROFILES (SP SERIES) FOR DETAILED STORM DRAINAGE AND PIPING INFORMATION. ALL CONSTRUCTION ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. CONTRACTOR SHALL COORDINATE CONSTRUCTION EXIT LOCATIONS WITH PATH FOUNDATION PROJECT MANAGER AND CITY OF LAGRANGE PRIOR TO CONSTRUCTION EXIT LOCATIONS WITH PATH FOUNDATION PROJECT MANAGER AND CITY OF LAGRANGE PRIOR TO CONSTRUCTION EXIT LOCATIONS WITH PATH FOUNDATION PROJECT MANAGER AND CITY OF LAGRANGE PRIOR TO CONSTRUCTION EXIT LOCATIONS WITH PATH FOUNDATION PROJECT MANAGER AND CITY OF LAGRANGE PRIOR TO CONSTRUCTION SILT FENCE OR FILTER MEDIA SOCK AS PER DETAILS SHOWN ON SHEET ED-01. DUE TO THE NATURE OF THIS CONSTRUCTION PROJECT, A DESIGNATED RE-FUELING SITE IS IMPRACTICAL. CONTRACTOR SHALL USE EXTRA CARE WHEN REFUELING EQUIPMENT. CONTRACTOR SHALL NOT RE-FUEL EQUIPMENT WITHIN 200 FEET OF STATE WATERS. ANY ADJACENT STORM SEWER SYSTEMS OR DITCHES SHALL BE PROTECTED FROM SPILLS. ANY SPILL MADE MUST BE CLEANED UP ACCORDING TO THE REQUIREMENTS PROVIDED IN THE EROSION, SEDIMENTATION & POULUTION CONTRCINTS 	KAIZENCOLLABORATIVE Z330 MAIN STREET TUCKER, GEORGIA 30084 Z330 MAIN STREET TUCKER, GEORGIA 30084 Z340 MAIN STREET TUCKER, GEORGIA 30084 Z350 MAIN STREET TUCKER, GEORGIA 30084 MAIL STREET CEFICE (770) 8344084 CARCOLLTON, GA. 3011 CAFICE (770) 8344084
SEDIMENTATION, & POLLUTION CONTROL NOTES. CONSTRUCTION MANAGEMENT PATH FOUNDATION JONATHAN McCAIG - 24 HOUR CONTACT GA GSWCC LEVEL 1 CERTIFICATION # 58893 EXP. 08/17/2021 office 404-875-7284 x5 cell 404-433-1900 OWNER/DEVELOPER: TROUP COUNTY ATTN: ERIC MOSLEY 100 RIDLEY AVENUE LoGRANGE, 6A 30240 766-883-1610 emosley@troupcountyga.gov NOTE: *EROSION CONTROL DATA & DETAILS ARE CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR REVIEW. THIS SITE IS NOT LOCATED WITHIN 200' (FEET) OF STATE WATERS TOTAL SITE AREA 1.82 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL FOR THE LENGTH OF THE PROJECT) DISTURBED AREA 3.4 ACRES	
MUD R. TION ORE	DATE DESCRIPTION 03/17/2020 50% REVIEW 04/21/2020 90% REVIEW 05/08/2020 100% ISSUE FOR PERMIT 0 0 0 0 05/08/2020 100% ISSUE FOR PERMIT 0 0 05/08/2020 100% ISSUE FOR PERMIT 0 0
	Image: state stat

	ESTIMATED SOIL PROPERTIES									LIMITATION OF SOILS FOR URBAN USES						
CORROSIVITY DEPTH TO:																
MAP SYMBOL	SOIL SERIES	PERMEABILITY (In./Hrs.)	SOIL REACTION (pH)	SHRINK- SWELL POTENTIAL	STEEL	CONCRETE	WATER TABLE (Ft.)	BEDROCK (In.)	FLOOD FRE- QUENCY	HYDRO- GROUP	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOON AREAS	SHALLOW EXCAVATIONS	DWELLINGS 'w/basement #w/o basement	SMALL COMMERCIAL BUILDINGS	LOCAL ROADS AND STREETS
CuC, CuE	CECIL	0.6-0.2	4.5-5.5	Low	Mod.	Mod.	>6.0	>60	None	В	0-8%:M;pk 8-15%:M;pk,s 15+%:S;s	0-2%:M;p 2-7%:M;s,p 7+%:S;s	0.8%:M;cl 8-15%:M;cl,s 15+%:S;s	0-8%:L 8-15%:M;s 15+%:S;s	0-4%:L 4-18%:M;s 8+%:S;s	0-8%:M;b 0-15%:M;b,s 15+%:S;s
RK	RIVERVIEW	0.6-2.0	4.5-5.5	Low	Low	Mod.	3.0-5.0	>60	Occ Freq	В	S;f,w	S;f,p,w	S;cc	S;t	S;f	S;f

	SAMPLING INFORMATION										
MONITORING SITE	LOCATION OF DRAINAGE POINT	NAME OF RECEIVING WATER	SAMPLING TYPE (OUTFALL OR RECEIVING WATER)	TOTAL DRAINAGE AREA (SQUARE MILES)	DIST AREA (ACRES)	WARM OR COLD WATER STREAM	APPENDIX B NTU VALUE*	ALLOWABLE NTU INCREASE	CONSTRUCTION ACTIVITY		
Md1**	SEE SHEET EC-01	N/A	OUTFALL	0.0145	1.0	WARM	75	N/A	TRAIL CONSTRUCTION		

* NTU LIMIT TAKEN FROM GENERAL PERMIT GAR100002 SAMPLES TO BE TAKEN BY "GRAB SAMPLES" OR OTHER APPROVED METHOD. SAMPLES TO BE ANALYZED BY HACH OR OTHER APPROVED METHOD. **SEE DRAINAGE/CONTRIBUTING DRAINAGE BASIN MAP, THIS SHEET, FOR MONITORING SITE LOCATIONS. SHOULD THE SAMPLING PROFESSIONAL BELIEVE THE SAMPLING RESULTS ARE NOT REPRESENTATIVE OF THE SITE AND THAT OFFSITE DEVELOPMENTS ARE CONTRIBUTING TO AN INCREASE IN THE NTU LEVEL THE SAMPLING PROFESSIONAL SHALL CONTACT THE EROSION CONTROL DESIGN ENGINEER FOR NEW SAMPLING LOCATIONS. **MONITORING LOCATION Md1 IS REPRESENTATIVE OF CONTRIBUTING DRAINAGE BASINS 2 & 3

ſ						SEI	DIMENT BA	RRIER	CHECK DAMS				INLET SEDIMENT TRAP		
	DESCRIPTION	TOTAL DRAINAGE AREA (ACRES)	DIST AREA (ACRES)	REQUIRED STORAGE (CY)	TOTAL STORAGE PROVIDED (CY)	AVG. DIST FROM TOE OF SLOPE (FT)	LENGTH OF SILT FENCE (LF)	TOTAL VOLUME (CY)	L.F. OF APPROX. 4% DITCH	STORAGE PER DEVICE (CY)	# OF DEVICES	TOTAL VOLUME (CY)	STORAGE PER DEVICE (CY)	# OF DEVICES	TOTAL VOLUME (CY)
	1	9.3	1.0	623.1	128.7	5	870	104.7	425	2.25	9	20.25	4	6	24
	2	5.3	1.8	355.1	268.0	6	1872	260.0	N/A	N/A	N/A	N/A	4	2	8
	3	1.4	0.6	93.8	199.3	5	1600	192.6	200	2.25	3	6.75	N/A	N/A	N/A

E	ROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST	EN-01 Y	19 Clearly note statement t
	SW/CD-		
Project Name: LaGRANGE THREAD PHASE City/County: CITY OF LaGRANGE, TROUP	Address: G.P.S. COORDS: BEGIN (33.0310*, -85.0465*) END (33.0255*, -85.0465*) COUNTY, GEORGIA Date on Plans: MAY 8, 2020 Address: MAY 8, 2020 Address: Addres: Addres: Addre		Plan does not provide for
Name & email of person filling out	checklist: LUKE WOJCIK; LWOJCIK@GEORGIAANDWEST.COM		
Plan Included Page # Y/N	TO BE SHOWN ON ES&PC PLAN	EN-01	21 Clearly note the stateme or temporary seeding."
ED-01 Y 1 The ap of the (The c	pplicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 year in which the land-disturbing activity was permitted. completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)	N/A	22 Any construction activity of and within the same permit. Include the corr to the Impaired Stream
ALL Y 2 Level (Signa	If certification number issued by the Commission, signature and seal of the certified design professional. ature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)	N/A	23 If a TMDL Implementation
EC-SERIES Y 3 The name EC-SERIES Y 4 Provid EC-SERIES Y 5 Note t	ame and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls. Je the name, address, email address , and phone number of primary permittee. total and disturbed acreage of the project or phase under construction.	EC-SERIES Y	requirements included in 24 BMPs for concrete was
EC-SERIES Y 6 Provid	the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in	EC-SERIES Y	25 Provide BMPs for the re
ALL Y 7 Initial	date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.	EN-01 Y	26 Description of the meas will occur after construc
EN-01-EN-02 Y 8 Descri	iption of the nature of construction activity.	EN-02	27 Description of practices
ED-01 Y 9 Provid	le vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.	EN-01-EN-02	28 Description of the practi
EN-01 Y 10 Identif wetlar	<i>i</i> y the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, nds, marshlands, etc. which may be affected.	ED-01 Y	29 Description and chart or
EN-01 Y 11 Design Plan a	n professional's certification statement and signature that the site was visited prior to development of the ES&PC as stated on Part IV page 21 of the permit.		the site (i.e., initial perin activities, temporary and
EN-01 Y 12 Design and co	n professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate omprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *	EN-01-EN-02 Y EN-01-EN-02 Y	30 Provide complete requir
EN-01 Y 13 Desig	in professional certification statement and signature that the permittee's ES&PC Plan provides for representative	EN-01 Y EN-01-EN-02 Y	32 Provide complete detail 33 Description of analytical
EN-02 Y 14 Clearly initial	y note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." cordance with Part IV.A.5 page 26 of the permit. *	ED-01 Y ED-01 Y	34 Appendix B rationale for 35 Delineate all sampling lo
EN-01 Y 15 Clearly buffer from t	y note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream s as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured the Jurisdictional Determination Line without first acquiring the necessary variances and permits."	EN-01 Y	36 A description of appropr sediment storage requir BMPs. For construction
EC-SERIES Y 16 Provid	le a description of any buffer encroachments and indicate whether a buffer variance is required.		intermediate grading an
EN-01 Y 17 Clearl	y note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a $ulic component must be certified by the design professional." *$		phase. *
EN-02 Y 18 Clearl Sectio	y note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a on 404 permit." *	EC-SERIES Y	38 Existing and proposed of Existing Contours Proposed Contours

SEDIMENT BASIN EXEMPTION NOTE:

DUE TO THE TYPE OF DEVELOPMENT PROPOSED IN THIS PROJECT AND THE SITE CONDITIONS UPON WHICH THE DEVELOPMENT WILL BE BUILT, NO SEDIMENT STORAGE STRUCTURES ARE PROPOSED. GIVEN THE MINIMAL DISTURBANCE NECESSARY TO CONSTRUCT THE TRAIL, THE ADJACENT PROPERTIES AND ENVIRONMENT WOULD BE NEGATIVELY AFFECTED (ADDITIONAL CLEARING, GRADING, AND OTHER LAND DISTURBING ACTIVITIES) BY THE INSTALLATION OF SEDIMENT STORAGE STRUCTURES FOR A NEGLIGIBLE BENEFIT. PERIMETER CONTROL, INLET SEDIMENT TRAPS, AND CHECK DAMS ARE UTILIZED THROUGHOUT THE SITE IN A EFFORT TO CONTROL EROSION. THE MEASURES SHOWN IN THIS PLAN SHOULD BE SUFFICIENT TO MANAGE EROSION, SEDIMENTATION, AND POLLUTION CONTROL WITHIN THE PROJECT SITE. 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.

SOIL SERIES INTERPRETATIONS

SEDIMENT STORAGE TABLE

EROSI	ON
DESCRIPTION DAY	JUI 1 1
INSTALL CONST. ENTRANCE	
INSTALL SEDIMENT BARRIER	
INSPECT BY CITY / OR COUNTY	
SALVAGE TIMBER	
CLEAR & GRUB SITE	
INSTALL EROSION CONTROL STRUCTURES	
STRIP & STORE TOP SOIL	
APPLY TEMPORARY VEGETATION, MULCH & GRAVEL	
GRADE SITE	
INSTALL STORM DRAIN SEWER	
INSTALL SANITARY SEWER	
INSTALL CURB & GUTTER	
INSTALL WATER	
INSTALL PAVEMENT	
ESTABLISH PERMANENT VEGETATION	
REMOVE TEMPORARY EROSION CONTROL STRUCTURES	
MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL WILL BE REPAIRED BY THE END OF THAT DAY. CLEAN OUT ACCORDANCE WITH THE SPECIFICATION AND SEDIMENT DISPOS BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUT	_ M OF SAL TING

t that "The escape of sediment from the site shall be prevented by the installation of erosion and

sures and practices prior to land disturbing activities." t that "Erosion control measures will be maintained at all times. If full implementation of the approved

for effective erosion control, additional erosion and sediment control measures shall be implemented ediment source."

ment "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch

which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the mpleted Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge n Segment. *

ation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 onths prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or

in the TMDL Implementation Plan. *

shdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum e is prohibited. *

emediation of all petroleum spills and leaks.

sures that will be installed during the construction process to control pollutants in storm water that ction operations have been completed. *

s to provide cover for building materials and building products on site. *

tices that will be used to reduce the pollutants in storm water discharges. *

r timeline of the intended sequence of major activities which disturb soils for the major portions of meter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility ind final stabilization).

irements of inspections and record keeping by the primary permittee. *

uirements of sampling frequency and reporting of sampling results. *

ils for retention of records as per Part IV.F. of the permit. *

I methods to be used to collect and analyze the samples from each location. *

r NTU values at all outfall sampling points where applicable. *

locations, perennial and intermittent streams and other water bodies into which storm water is e a summary chart of the justification and analysis for the representative sampling as applicable. * priate controls and measures that will be implemented at the construction site including: (1) initial irements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final

n sites where there will be no mass grading and the initial perimeter control BMPs, and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single

h arrow.

contour lines with contour lines drawn at an interval in accordance with the following: USGS 1": 2000' Topographical Sheets ": 400' Centerline Profile

N/A	Ν
N/A	Ν

ED-01	Y
ED-01	Y
ED-01	Y

- N/A EC-SERIES EC-SERIES ED-01 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 EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
- 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. *
- 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.
- 42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site. 43 Delineation and acreage of contributing drainage basins on the project site.
- 44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
- 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are
- 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- 47 Soil series for the project site and their delineation.
- 48 The limits of disturbance for each phase of construction.
- 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to
- utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and
- Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.
- * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

EC-SERIES Y

ED-02

24" MAXIMUM

	S	TRUCTUI	ral f	PRACTICES	STRUCTURAL PRACTICES						
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION		
Cd	CHECKDAM		J	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.	Sr	TEMPORARY STREAM CROSSING		ST (MEEL)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.		
Ch	CHANNEL STABILIZATION		TT	Improving, constructing or stabilizing an open channel, existing stream, or ditch.	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.		
Co	CONSTRUCTION EXIT		(LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.	Su	SURFACE ROUGHENING		HSUH	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.		
Cr	CONSTRUCTION ROAD STABILIZATION		Cr	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.	Tc	TURBIDITY CURTAIN		Te	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).		
Dc	STREAM DIVERSION CHANNEL		¢	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.	Тр	TOPSOILING		(SHOW STRIPING AND STORAGE AREAS)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.		
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.	Tr	TREE PROTECTION	\odot	(DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.		
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 (LABL)	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.	Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.		
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 (LAEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.							
Fr	FILTER RING	C		A temporary stone barrier constructed at storm drain inlets and pond outlets.		V	EGETAT				
Ga	GABION		A CONT	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.	CODE	PRACTICE	DETAIL		DESCRIPTION		
Gr	GRADE STABILIZATION STRUCTURE		Gr	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.	Bf	BUFFER ZONE		KBT	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding on area of disturbance or bordering streams		
Lv	LEVEL SPREADER		Ę	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.	Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	Jane a state a	Cs	Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.		
Rd	ROCK FILTER DAM		5	A permanent or temporary stone filter dam installed across small streams or drainageways.	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.		
Re	RETAINING WALL	1	Reg (ABEL)	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.	Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.		
Rt	RETRO FITTING		(ABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.	Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.		
Sd1	SEDIMENT BARRIER		(INDICATE TYPE)	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.	Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.		
Sd2	INLET SEDIMENT TRAP	V 11 2 1 2 V V 11 2 1 2 V V 11 2 1 1 V V 11 2 1 1 V V 11 2 1 1 V V 1 V	(Sd3)	around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities. A basin created by excavation or a dam	Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.		
Sd3	TEMPORARY SEDIMENT BASIN			across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. A small temporary pond that drains a	FI-Co	FLOCCULANTS AND COAGULANTS		FFCo	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.		
Sd4	TEMPORARY SEDIMENT TRAP			disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.	Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.		
Sk	FLOATING SURFACE SKIMMER		(LABEL)	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.	Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.		
Spb	SEEP BERM		Spb	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.	Тас	TACKIFIERS AND BINDERS		Тас	Substance used to anchor straw or hay mulch by causing the organic material to bind together.		

GEORGIA UNIFORM CODING SYSTEM

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

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GaSWCC (Amended - 2013)

DEVELOPMENT REFERENCE:

DESIGN PROFESSIONAL

105 CORPORATE DRIVE CARROLLTON, GA 30117 PHONE: (770) 834-4694

GEORGIA AND WEST, INC.

24-HOUR CONTACT JONATHAN McCAIG 404-433-1900

GENERAL NOTES

1. NO ACTIVITIES SHALL BE CONDUCTED WITHIN THE 25- OR 50-FOOT STREAM BUFFER ALONG THE BANKS OF ALL STATE WATERS WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

2. EACH SECONDARY PERMITTEE WILL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.

3. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

4. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED AREA CONSISTING OF PAVED TRAIL, GRASSING, LANDSCAPING, AND OUTLET PROTECTION AT ALL STORM WATER OUTFALLS.

5. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:

- A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-FRODIBLE MATERIAL B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO
- THE PREVAILING WIND. C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
- D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES.

6. THIS SITE TO BE DEVELOPED INTO LINEAR PARK CONSISTING OF A CONCRETE MULTI-USE TRAIL WITH LANDSCAPING. THE TOTAL SITE AREA: 1.82 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL). THE TOTAL DISTURBED AREA: 3.4 ACRES.

7. PERIMETER SEDIMENT CONTROL STRUCTURES ARE SHOWN TO MINIMIZE EROSION & SEDIMENTATION

CLEARING PHASE - PHASE 1 EROSION CONTROL NOTES:

PRIOR TO THE LAND DISTURBING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

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

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500

FEET OF DESIGNATED TREE PROTECTION AREAS. A COPY OF THE EROSION SEDIMENT & POLLUTION CONTROL PLANS SHALL BE PRESENT ON THE SITE AT ALL TIMES.

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.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND CURATELY DEMARCATED WITH STAKES RIBBONS OR (APPROPRATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMIITS INDICATED ON THE APPROVED PLANS.

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

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

. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN $1\frac{1}{2}$ " & $3\frac{1}{2}$ " IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.

2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED. 5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.

TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

RETENTION OF RECORDS

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:

- a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION
- CONTROL PLAN REQUIRED BY THE PERMIT THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF
- THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5 OF THIS PERMIT;
- d. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT.
- e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a OF THIS PERMIT:
- f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH
- PART III.D.2 OF THIS PERMIT: AND g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND PÓLLUTION 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 GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE I AND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER 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

(2) 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.

(3) 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, HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, 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.

PURSUANCE TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS, THE TERM "CERTIFY" OR "CERTIFICATION" RELATING TO ENGINEERING SERVICES SHALL MEAN A SIGNED STATEMENT BASED ON FACTS AND KNOWLEDGE KNOWN TO THE ENGINEER AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

D. BASS, PE GA NO. 34591 DATE

MAY 8, 2020 LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #17788

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN 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 SITE INSPECTION.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES WHERE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S NEED TO BE INSTALLED. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.

THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION CONTROL PLANS WILL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S WITHIN SEVEN DAYS AFTER INSTALLATION. ONCE THE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S ARE IN PLACE, THEN CLEARING/GRUBBING/MASS GRADING CAN BEGIN.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

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

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE REQUIRED CLEANOUT ELEVATION OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NECESSARY.

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 VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

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

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE DESIGN ENGINEER.

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 EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION,

REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, 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.

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES." "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE." SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."

INFORMATION.

INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS

GRADING PHASE - PHASE 2 EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFU SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES,

AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE

BUFFFR AREAS.

IT WILL NOT ENTER THE INLETS AGAIN.

MADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT AND FILL SLOPES ARE NOT TO EXCEED 2H:1V. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

FINAL PHASE - PHASE 3 EROSION CONTROL NOTES:

STABILIZED WITH TEMPORARY GRASSING.

FOR ADDITIONAL INFORMATION.

CURBS.

NFCFSSARY.

PERMT 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. 100002 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE

1. CONSTRUCTION ACTIVITIES (GAR 100002 PART 1.C.1)

- A. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE 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 STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES) EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3.
- B. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCES EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING AFTER THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES), EXCEPT FOR
- DISCHARGES IDENTIFIED UNDER PART I.C.3.; COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT RESULT IN LAND DISTURBANCE OF LESS THAN FIVE (5) ACRES AND CONSIST SOLELY OF ROUTINE MAINTENANCE FOR THE ORIGINAL PURPOSE OF THE FACILITY THAT IS PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE AND THE HYDRAULIC CAPACITY. AS APPLICABLE. THE PERMITTEE SHALL, AS A MINIMUM, IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION. WHICH ARE CONSISTENT WITH AND NO LESS STRINGENT THAN. THOSE PRACTICES CONTAINED IN THE "MANUAL FOR FROSION 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 IS BEING CONDUCTED. IN ORDER TO BE ELIGIBLE FOR THIS EXEMPTION THE PROJECT MUST COMPLY WITH THE FOLLOWING CONDITIONS: (1) NO MASS GRADING SHALL OCCUR ON THE PROJECT, (2) THE PROJECT SHALL BE STABILIZED BY THE END OF EACH DAY WITH
- TEMPORARY OR PERMANENT STABILIZATION AND (3) THE PROJECT SHALL HAVE A DURATION OF LESS THAN 90 CALENDAR DAYS: AND D. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGE OF STORMWATER ASSOCIATED WITH RAILROAD CONSTRUCTION PROJECTS AND EMERGENCY RE-CONSTRUCTION CONDUCTED PURSUANT TO THE FEDERAL RAILWAY SAFETY ACT. THE INTERSTATE COMMERCE COMMISSION TERMINATION ACT AND WHICH CONSIST SOLELY OF ROUTINE MAINTENANCE FOR THE ORIGINAL PURPOSE OF THE FACILITY THAT IS PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE AND THE HYDRAULIC CAPACITY, AS APPLICABLE. THE CONSTRUCTION ACTIVITY SHOULD. AT A MINIMUM. IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE FROSION AND RESULTANT SEDIMENTATION CONSISTENT WITH THE REQUIREMENTS OF THE FEDERAL RAILWAY SAFETY ACT AND APPLICABLE REQUIREMENTS OF THE CLEAN
- 2. MIXED STORM WATER DISCHARGES (GAR 100002 PART 1.C.2) THIS PERMIT MAY ONLY AUTHORIZE A STORM WATER DISCHARGE FROM A CONSTRUCTION SITE OR CONSTRUCTION ACTIVITIES THAT IS MIXED WITH A STORM WATER DISCHARGE FROM AN INDUSTRIAL SOURCE OR ACTIVITY

WATER ACT.

- OTHER THAN CONSTRUCTION WHERE A. 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;
- B. THE STORM WATER 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 C. STORM WATER 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 PFRMIT 3. LIMITATIONS ON COVERAGE (GAR 100002 PART 1.C.3)
- THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT
- A. 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; B DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER 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-STORM WATER DISCHARGES) OF THIS PERMIT; C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT.
- CUCH DISCURDERS MAY BE ALITUODIZED LINDED T EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND D. 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.
- 4. COMPLIANCE WITH WATER QUALITY STANDARDS (GAR 100002 PART 1.C.4) 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.
- SAMPLING REQUIREMENTS (GAR 100002 PART IV.D.6) 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. a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING: (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 STORM WATER 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 STORM WATER(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; (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 (3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL
- OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED 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
- (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 TIME LINE FOR SUBMITTAL.

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH

EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING

SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL

SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ALL 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 14 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE

STABILIZED WITH TEMPORARY GRASSING. AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE ${\it 1}{\it 3}$ DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE REQUIRED CLEANOUT ELEVATION OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NECESSARY.

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 VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

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

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE FROSION CONTROL, ADDITIONAL FROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE DESIGN ENGINEER.

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 EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE
- THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND OVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES
- THE HALF WAY POINT ON THE RISER. AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND
- REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH
- VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE CLEANOUT ELEVATION OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF

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 VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

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

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE DESIGN ENGINEER.

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 EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

ONCE FINAL STABILIZATION IS ACHIEVED. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED DIFFERENTLY ON PLANS. ONCE TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THEN THE NOTICE OF TERMINATION CAN BE FILED.

b. SAMPLE TYPE.

PERMIT AFTER AN

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.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(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. (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. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER.

SAMPLES ARE NOT REQUIRED TO BE COOLED. (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.

SAMPLING POINTS. (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, 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 STORM WATER OUTFALLS USING

THE FOLLOWING MINIMUM GUIDELINES: (a). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER 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. (b). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE

TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER 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. (c). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM

WATER OUTFALL CHANNEL(S). (d). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL (e). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(f). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. a) PERMITTEES DO NOT HAVE TO SAMPLE SHEETELOW 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 AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR 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. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. (h). 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 STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN

COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE. d. SAMPLING FREQUENCY. (1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE

PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF: (a) THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE

QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR (b) THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE

BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT. (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 STORM WATER DISCHARGE (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING

(a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING

OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION; (b). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RÉCEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST:

(c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED. NO FURTHER ACTION IS REQUIRED. IF BMPS IN AN' AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM 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-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(d). 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 MONITORING AT ANY TIME OF THE DAY OR WEEK.

EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES

MAY 8, 2020

SCALE | N.T.S. DATE

SHEET #

EN-01

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPCP)

This plan was prepared as required by NPDES General Permit No. GAR 100002. These plan sheets and all requirements of the General Permit as well as Local, State, and Federal regulations or laws apply regardless of specific inclusion in this plan.

SITE DESCRIPTION TROUP COUNTY as Primary Permittee will oversee site construction located within the Property situated in TROUP COUNTY as Primary Permittee will oversee site construction located within the Property situated in the magnitude of the ent Land lots 115, 142 of District 6, CITY OF LaGRANGE, TROUP COUNTY, GEORGIA. The magnitude of the entire development contains 3.4 acres

Property to be developed as a linear park that will consist of a concrete multi-use trail with grassing and landscaping. No secondary perimttees are known to be needed for this project at this time.

Zoning N/A

Survey Information Boundary information: Obtained from field survey performed by Georgia & West, Inc.

Topographic information: Obtained from field survey performed by Georgia & West, Inc.

NGS Monument: OPUS Vertical: NAVD 88

Runoff Coefficient

TBM: Top F.H. Operating Nut; Elev.: 720.26

Flood Insurance Rate Map, Panel 13285C0143E, Dated 07/03/2012, shows the site to be in Zone X (no base flood elevations determined).

* Weighted pre-construction CN curve number: 65

* Weighted post-construction CN curve number: 65

<u>Soil Types</u> The NRCS soil types are shown on the Erosion Control Plans.

- Soil Disturbing Activities Include: -Installing a stabilized construction exit, perimeter and other erosion and sediment controls -Clearing and arubbing -Grading and excavation for utilities & road subgrade
- -Preparation for final planting and seeding -Completion of on-site stabilization

<u>Sequence of Major Activities</u> See Construction Schedule

<u>Name of Receiving Waters</u> Tributary of Blue John Creek

CONTROLS

Erosion and Sediment Controls

All construction exits shall be in place prior to any land disturbing activities.

Existing vegetation shall be left in place until such time that land disturbing activities are to take place upon that portion of the site. When construction activities have ceased in an area, that area shall be stabilized within 14 days. If the area is not yet to final grade, it shall be mulched. If the area is to final grade and will eventually contain site improvements such as the structures or sidewalks, it shall be temporary seeded. Areas brought to final grade that will remain pervious are to be permanently seeded. Allowable exceptions from the NPDES General Permit, GAR 100002, are noted below.

Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently cease is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable."

Please refer to Detail Sheets for the land disturbance construction schedule and temporary and permanent

grassing schedules. Storm water from this development will sheet flow into existing ditches and storm sewer systems and discharge into a Tributary of Blue John Creek.

NON-STORM WATER DISCHARGES

All non-storm water discharges will be routed through on site BMPs and the storm water management system where possible. These discharges include flushing of water and fire lines, irrigation water, ground water, dewatering of pits or depressions within the construction site and rinse off water of non-toxic materials.

OTHER CONTROLS

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

<u>Waste Materials</u>

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried onsite.

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the Contractor will be responsible for seeing that these procedures are followed.

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 the discharge of pollutants from these areas. Minimization of exposure is not required in cases 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).

Hazardous Wastes

All hazardous waste materials will be disposed of in the manner specified by local, state, and /or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. A MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniaues.

The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with stormwater discharges. If such contact occurs, the stormwater discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

<u>Sanitary Wastes</u>

A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in one area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on the Erosion Control Plan Grading Phase, by the contractor once the locations have been determined.

Sanitary Sewer will be provided by Septic System at the completion of this project. No permanent waste disposal, sanitary sewer, or septic tanks shall be installed without obtaining all necessary approvals of local and/or state regulations.

<u>Offsite Vehicle Tracking</u>

A stabilized construction exit has been provided to help reduce vehicle tracking of sediment. See Sheet EC-01-EC-04 & ED-02 for construction exit location and details. The paved street adjacent to the site exit will be inspected daily for tracking of mud, dirt or rock. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

INVENTORY FOR POLLUTION PREVENTION PLAN

The following materials are expected onsite during construction: Concrete products, asphalt, petroleum based fuels and lubricants for equipment, tar, metal building materials, lumber, sheet rock, floor coverings, electrical wire and fixtures, paints/stains/finishing treatments, paints, paint solvents, additives for soil stabilization, cleaning solvents, pesticides, fertilizers, herbicides, crushed stone, plastic and metal pipes. SPILL PREVENTION

Practices such as good housekeeping, proper handling of hazardous products and proper spill control practices will be followed to reduce the risk of spills and spills from discharging into storm water runoff. Good Housekeeping

- 2. Products and materials will be stored in a neat, orderly manner in appropriate containers protected from rainfall, where possible
- 3. Products will be kept in their original containers with manufacturer labels legible and visible. 4. Product mixing, disposal and disposal of product containers will be according to the manufacturer's recommendations.

5. The Contractor will inspect such materials to ensure proper use, storage and disposal. 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 on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and state regulations.

Paints/Finishes/Solvents - All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

Concrete - NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite. Wash areas for washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles, if used, will consist of an enclosed waste collection area that will contain the concrete wash until it hardens then disposed of into the onsite construction waste bin.

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 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 onsite. All such material

will be disposed of in proper waste disposal procedures.

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 OF AN UNKNOWN AMOUNT, THE NATIONAL 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 1320 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. **INSPECTIONS**

Primary Permittee

- 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. 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.
- 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 nonworking 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): (a) disturbed areas of the primary permittee's construction site ; {b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site 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). For areas of 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 permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
- 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).
- 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.
- 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.
- **A COPY OF THE REPORT(S) SHALL BE SENT TO THE OWNER/DEVELOPER, EPD AS REQUIRED BY THE PERMIT AND THE PROJECT INSPECTOR.**

1. Quantities of products stored onsite will be limited to the amount needed for the job.

MAINTENANCE & INSPECTION OF EROSION & SEDIMENTATION CONTROLS

<u>Maintenance</u>

seeding growth.

The following best management practice maintenance criteria are taken from the "Manual for Erosion and Sediment Control in Georgia", Sixth Edition.

Construction exits shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5 - 3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

Retrofit structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-third of the sediment storage capacity has been

Sediment shall be removed from sediment traps when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation.

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap and disposed of and stabilized so that it will not enter the inlet, again

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

Repair all damages caused to temporary sediment basins by soil erosion or construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. Sediment shall not enter adjacent streams or drainage ways during sediment removal or disposal. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain.

Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage. Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and

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 a 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 vegetative techniques shall be employed.

Permanent vegetation shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final arade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformlycovered 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. Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear 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. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

The sampling The sampling The Primary stabilized by

THE DESIGN INSTALLATION CONTROL BMP CONTRACTOR INSTALLED.

DESIGN PROF DATE OF INSPECTI

I Certify the site

JOHN D. BASS, PI LEVEL II CERTIFIED

These deficiencies the site until Desi

	· •			
STORMWATER SAMPLING				
<u>SAMPLE ANALYSIS</u> Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the auidance document titled 'NPDES Storm Water Sampling Guidance Document.		1		
EPA 833-8-92-001.' Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water 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		ZAT	4	AND PLA 834-4694 34-1005
condition results in the turbidity of the discharge exceeding 75 N.T.U		30084		
There will be 1 storm water sampling locations, Md1. See Erosion Control Plan sheets for exact location. Per NPDES Permit GAR 100002, for construction activities, the Primary Permittee must complete all sampling.				RVE YING CFFI FA) giaandwest
 Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel. The sampling container should be held so that the opening faces upstream. The samplings should be kept free from floating debris. The Primary Permittee does not have to sample sheet flow onto undisturbed natural areas or areas stabilized by the project. 		COLL TUCKER, GE		L: mailbox@geor
<u>Reporting</u> A monthly summary of the monitoring results shall be sent to TROUP COUNTY and Georgia Environmental Protection Division by the 15th of each month. This report summary shall include:			*	ERING CORPORA
 * The rainfall amount, date, exact place and time of sampling or measurements; * The name(s) of the certified personnel who performed the sampling and measurements; * The date(s) analyses were performed; * The time(s) analyses were initiated; * The name(s) of the individuals who performed the analyses; * References and written procedures, when available, for the analytical techniques or methods used. A quality control/quality assurances program must be included in the written procedure; * The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results. *Results which exceed 1000 NTU shall be reported as "Exceeds 1000 NTU." *Certification statement that sampling was conducted as per the Plan. If no qualifying events occurred within a monthly monitoring period, a report must be submitted stating such. Addresses are provided below: 		KALZ 2390 MAIN STRE		ENGINE CAR
Governing Agency: Georgia Environmental Protection Division <u>Mountain District (Atlanta)</u> <u>4244 International Parkway, Suite 114</u> <u>Atlanta, GA 30354</u> (404) 362-2671				
ATTN: TROUP COUNTY ATTN: ERIC MOSLEY 100 RIDLEY AVENUE LaGRANGE, GA 30240 706-883-1610				
The contractor will obtain copies of any and all local and state regulations that are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The contractor will submit written evidence of such compliance if requested by the Owner or any agent of a regulatory body. The contractor will comply with all conditions of any and all local, state and federal agencies have governing authority, including the conditions related to maintaining the ESPCP and evidence of compliance with the ESPCP at the job site and allowing regulatory personnel access to the job site and to records in order to determine compliance.				
"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 an d 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 storm water outfalls and that the designed system of best management practices meets the design requirements contained in the General NPDES Permit No. GAR 100002."				
MAY 8, 2020 OHN D. BASS, PE GA NO. 34591 DATE LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. #17788 EXPIRES: 09-29-2021				
***THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION. CONTRACTOR MUST CONTACT DESIGN PROFESSIONAL IMMEDIATELY ONCE BMP'S ARE		DATE	DE	SCRIPTION
INSTALLED.*** DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION		03/17/2020 04/21/2020	50 [°]	% REVIEW % REVIEW
DATE OF INSPECTION		05/08/2020	100% ISS	UE FOR PERMIT
I Certify the site was / was not in compliance with the ES&PC Plan on the date of inspection.				
JOHN D. BASS, PE GA NO. 34591 LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. #17788				
Inspection revealed the following discrepancies from the ES&PC Plan.				
	PROJ PROJ	JECT # JECT MANA	AGER NS	9 - 196
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			*	ROFESSIONAL ROFESSIONAL EXPIRES 09-20-2021
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	DATE		r 8, 2020	
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