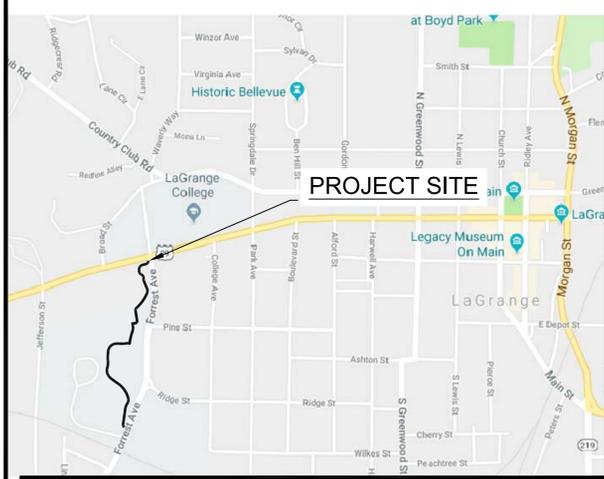


# LAGRANGE THREAD PHASE 3B

## CITY OF LaGRANGE, GEORGIA



VICINITY MAP  
N.T.S.

LAND LOT: 115 - 6TH DISTRICT

ALL WORK TO BE DONE IN ACCORDANCE WITH:  
 - 2013 STANDARD SPECIFICATIONS AND 2016 SUPPLEMENTAL SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION  
 - 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN  
 - ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY STANDARDS

**SURVEY AND COORDINATE DATA**  
 HORIZ. DATUM - GA. STATE PLANE COORDINATE SYSTEM  
 VERT. DATUM - NAVD 1988  
 COORDINATE ZONE - GEORGIA WEST  
 PROJECT UNITS - ENGLISH

**PROJECT DESCRIPTION**  
 THE PROJECT FALLS WITHIN LAND LOT 115 IN DISTRICT 6. THE SITE IS OWNED BY CITY OF LAGRANGE. THIS PROJECT WILL NOT REQUIRE ANY ZONING BUFFERS. THIS IS A TRAIL PROJECT WHICH IS BEING BUILT ON CITY EASEMENT AND CITY PROPERTY - THEREFORE THE PROPOSED USE OF THE PROJECT IS CONSISTENT WITH ZONING. THE LIMITS OF DISTURBANCE IS APPROXIMATELY 1.9 ACRES. NO DISTURBANCE IS PROPOSED WITHIN THE STATE 25' STREAM BUFFER SETBACK.

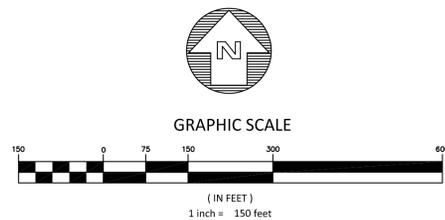
**NARRATIVE**  
 THIS PROJECT IS A SIDE PATH GREENWAY TRAIL BEGINNING AT THE SOUTHWEST CORNER OF VERNON WAY AND PANTHER WAY, ALIGNING THROUGH CITY EASEMENT PROPERTY, FOLLOWING THE EXISTING SIDEWALK ALONG LAGRANGE COLLEGE THEATRE AND CONTINUING THROUGH LAGRANGE COLLEGE CAMPUS, ENDING ON THE NORTH SIDE OF PANTHER WAY AND THE EXISTING LAGRANGE COLLEGE ACCESS DRIVE.  
 THE PROJECT LENGTH IS APPROXIMATELY 2485 LF OF CONCRETE TRAIL AND TRAIL AMENITIES. ADDITIONAL WORK ASSOCIATED WITH THE PROJECT INCLUDES MINOR DEMOLITION AND CLEARING, EROSION CONTROL, AND GRADING.

**OWNER/DEVELOPER (PRIMARY PERMITTEE)**  
 CITY OF LAGRANGE  
 MEG KELSEY, CITY MANAGER  
 200 RIDLEY AVENUE  
 LAGRANGE, GA 30240  
 706-883-2016

**CONSTRUCTION MANAGEMENT**  
 PATH FOUNDATION  
 JONATHAN McCAIG - 24 HOUR CONTACT  
 GA GSWCC LEVEL 1 CERTIFICATION # 58893  
 EXP. 08/21/2018  
 office 404-875-7284 x5 cell 404-433-1900

BEGIN LaGRANGE THREAD  
 PHASE 3B TRAIL ALIGNMENT  
 STA. 0+00.00  
 N 1105967.49  
 E 2027412.88

END LaGRANGE THREAD  
 PHASE 3B TRAIL ALIGNMENT  
 STA. 24+85.02  
 N 1104013.34  
 E 2027122.30



**ENGINEER'S CERTIFICATION STATEMENT:**

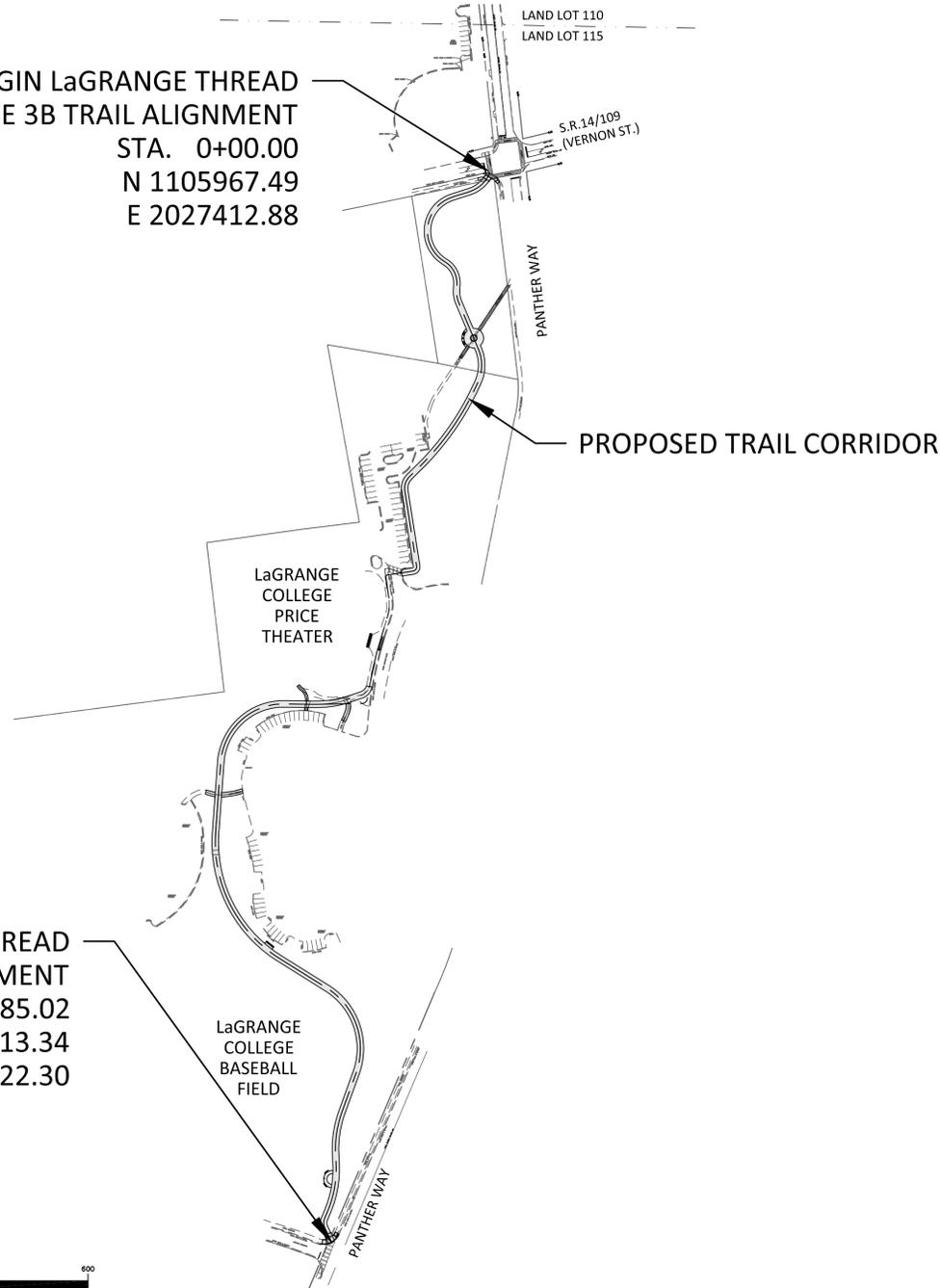
With my initials at the line above and my seal and signature below, I Greta G. deMayo, a professional **Engineer, Architect or Landscape Architect** licensed in the **State of Georgia**, hereby certify that I have personally reviewed the attached submittal plans for a land disturbance permit. In my opinion these submittal plans meet all applicable regulations and ordinances of the City of LaGrange and other affected parties may rely on this certification.

Signed: *Greta G. deMayo* Georgia Registration # NO. 1051

Date: AUGUST 1, 2018

GROSS LENGTH OF PROJECT 2484 LF

TOTAL SITE AREA = 1.43 ACRES  
 DISTURBED AREA = 1.9 ACRES



LOCATION MAP

**INDEX OF SHEETS**

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

**SIGNING AND MARKING PLANS**  
 SM-01 SIGNING AND MARKING PLAN  
 SM-02 SIGNING AND MARKING PLAN  
 SM-03 SIGNING AND MARKING DETAILS

**LANDSCAPE PLANS**  
 LP-01 LANDSCAPE PLAN  
 LP-02 LANDSCAPE PLAN  
 LD-01 LANDSCAPE DETAILS

**STRUCTURAL PLANS**  
 S-0.0 GENERAL NOTES  
 S-1.0 RETAINING WALL SECTIONS AND DETAILS  
 S-2.0 STRUCTURAL SLAB SITE PLAN

**CONSTRUCTION DETAILS**  
 CD-01 CONSTRUCTION DETAILS  
 CD-02 CONSTRUCTION DETAILS  
 CD-03 CONSTRUCTION DETAILS  
 CD-04 CONSTRUCTION DETAILS

**EROSION CONTROL PLANS**  
 EC-01 EROSION CONTROL PLAN  
 EC-02 EROSION CONTROL PLAN  
 EC-03 EROSION CONTROL PLAN  
 EC-04 EROSION CONTROL PLAN  
 EC-05 EROSION CONTROL DATA  
 EC-06 EROSION, SEDIMENTATION  
 & POLLUTION CONTROL NOTES  
 EC-07 EROSION, SEDIMENTATION  
 & POLLUTION CONTROL NOTES  
 EC-08 EROSION CONTROL DETAILS

PLANS PREPARED BY:

**KAIZENCOLLABORATIVE**

2390 Main Street | Tucker, GA 30084 | 404.239.2521

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Know what's below.  
Call before you dig.

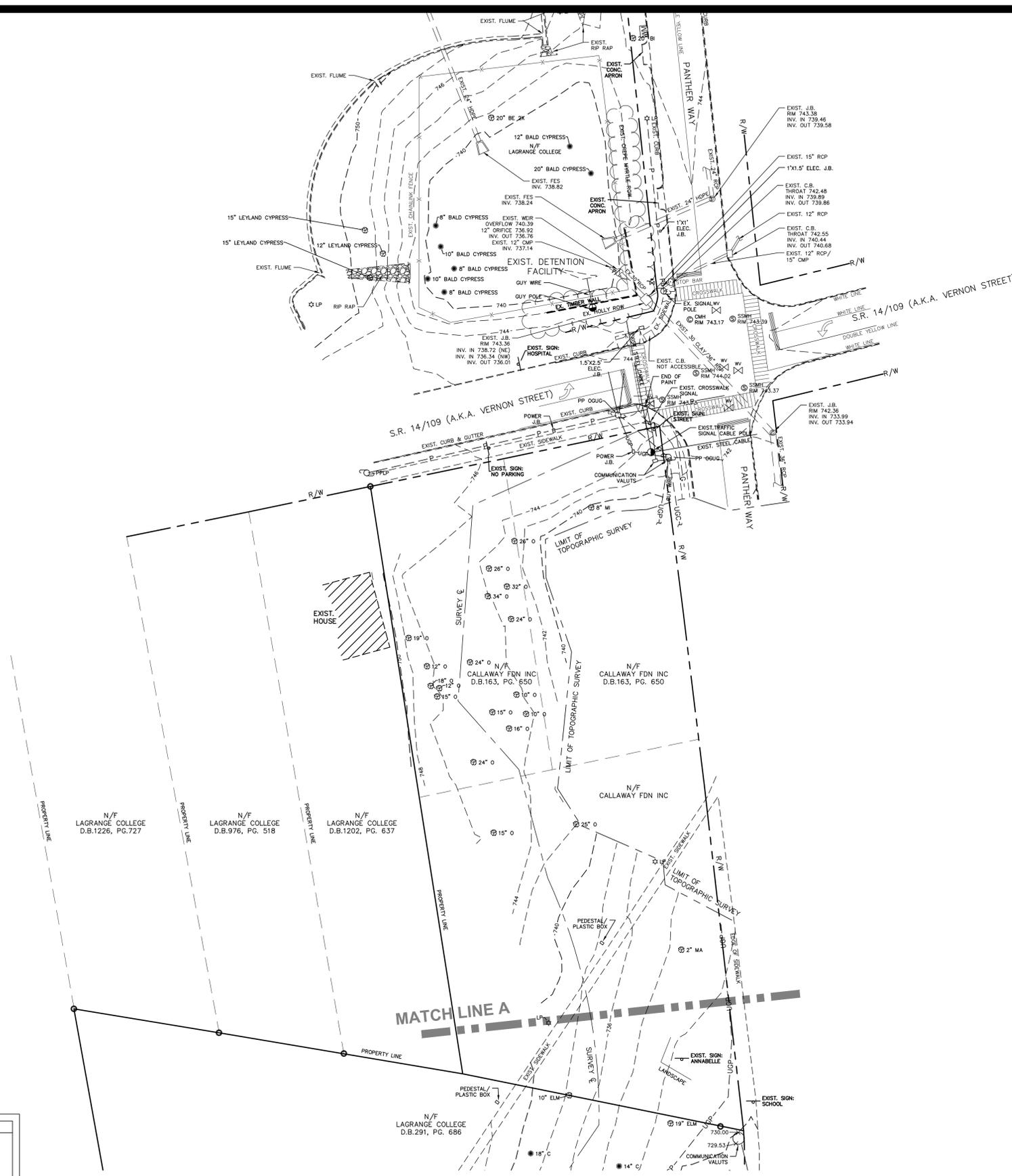
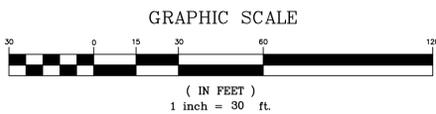
**TREE LEGEND**

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

**LEGEND**

1033 CATCH BASIN	OVERGROUND DOWNSPOUT	SEDIMENT BARRIER
1034 CATCH BASIN	WATER VALVE	TREE PROTECTION FENCE
1019A DROP INLET	GAS VALVE	CHAIN LINK FENCE
1011A JUNCTION BOX	HANDICAPPED PARKING	EXISTING FENCE
1019A TYPE E CURB INLET	TRAFFIC FLOW	PROPERTY LINE
1125 HEADWALL	UNDERGROUND POWER	EXISTING CONTOUR
DRAINAGE SLOPE	OVERHEAD POWER	PROPOSED CONTOUR
SEWER MANHOLE	UNDERGROUND TELEPHONE	EXISTING CURB & GUTTER
EXISTING FIRE HYDRANT	OVERHEAD TELEPHONE	PROPOSED CURB & GUTTER
PROPOSED FIRE HYDRANT	WATER	EXISTING SPOT ELEVATION
LAMP POST	SANITARY SEWER	PROPOSED SPOT ELEVATION
GUY POLE	FORCE MAIN	IRRIGATION WATER METER
UTILITY POLE	GAS	IRRIGATION CONTROL VALVE
UNDERGROUND DOWNSPOUT	STORM DRAIN	MAILBOX
		GAS METER
		POWER METER

THE F.I.R.M. PANEL 13285C0141E DATE 07/03/2012 INDICATES THIS PROPERTY OR A PORTION IS NOT 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.



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WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.  
WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.  
NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

TITLE: TOPOGRAPHIC SURVEY  
LAGRANGE THREAD PHASE 3B  
LOCATED IN LAND LOT 115 DISTRICT 6  
TROUP COUNTY, GEORGIA  
JOB NUMBER: 180420  
DATE: 05-10-2018  
DESIGNED BY: [Name]  
SCALE: 1" = 30'  
NO. DATE REVISION

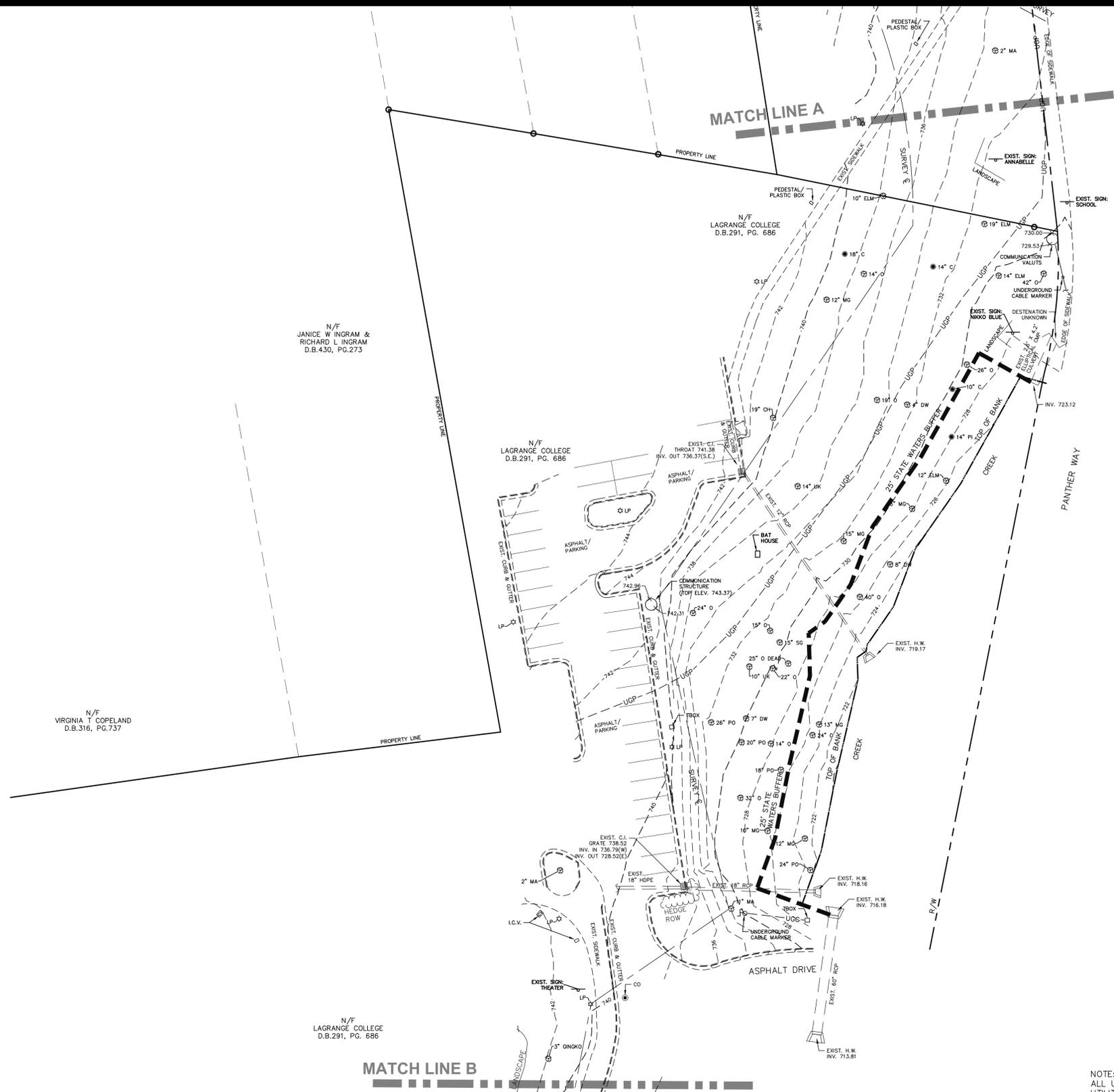
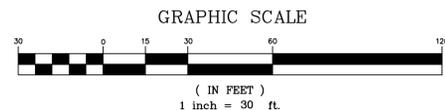


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LEGEND			
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	1019A DROP INLET		CHAIN LINK FENCE
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	PROPOSED FIRE HYDRANT		EXISTING SPOT ELEVATION
	LAMP POST		PROPOSED SPOT ELEVATION
	GUY POLE		EXISTING WATER METER
	UTILITY POLE		IRRIGATION CONTROL VALVE
	UNDERGROUND DOWNSPOUT		MAILBOX
	OVERGROUND DOWNSPOUT		GAS METER
	WATER VALVE		POWER METER
	GAS VALVE		
	HANDICAPPED PARKING		
	TRAFFIC FLOW		
	UNDERGROUND POWER		
	OVERHEAD POWER		
	UNDERGROUND TELEPHONE		
	OVERHEAD TELEPHONE		
	WATER		
	SANITARY SEWER		
	FORCE MAIN		
	GAS		
	STORM DRAIN		

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NOTE:  
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PROTECTION CENTER, INC. BEWARE OF  
UNDERGROUND UTILITIES NOT SHOWN.

NO.	DATE	REVISION	DESCRIPTION



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TROUP COUNTY, GEORGIA  
JOB NUMBER: 180420  
DATE: 05-10-2018  
SCALE: 1" = 30'  
DESIGNED BY: S-02

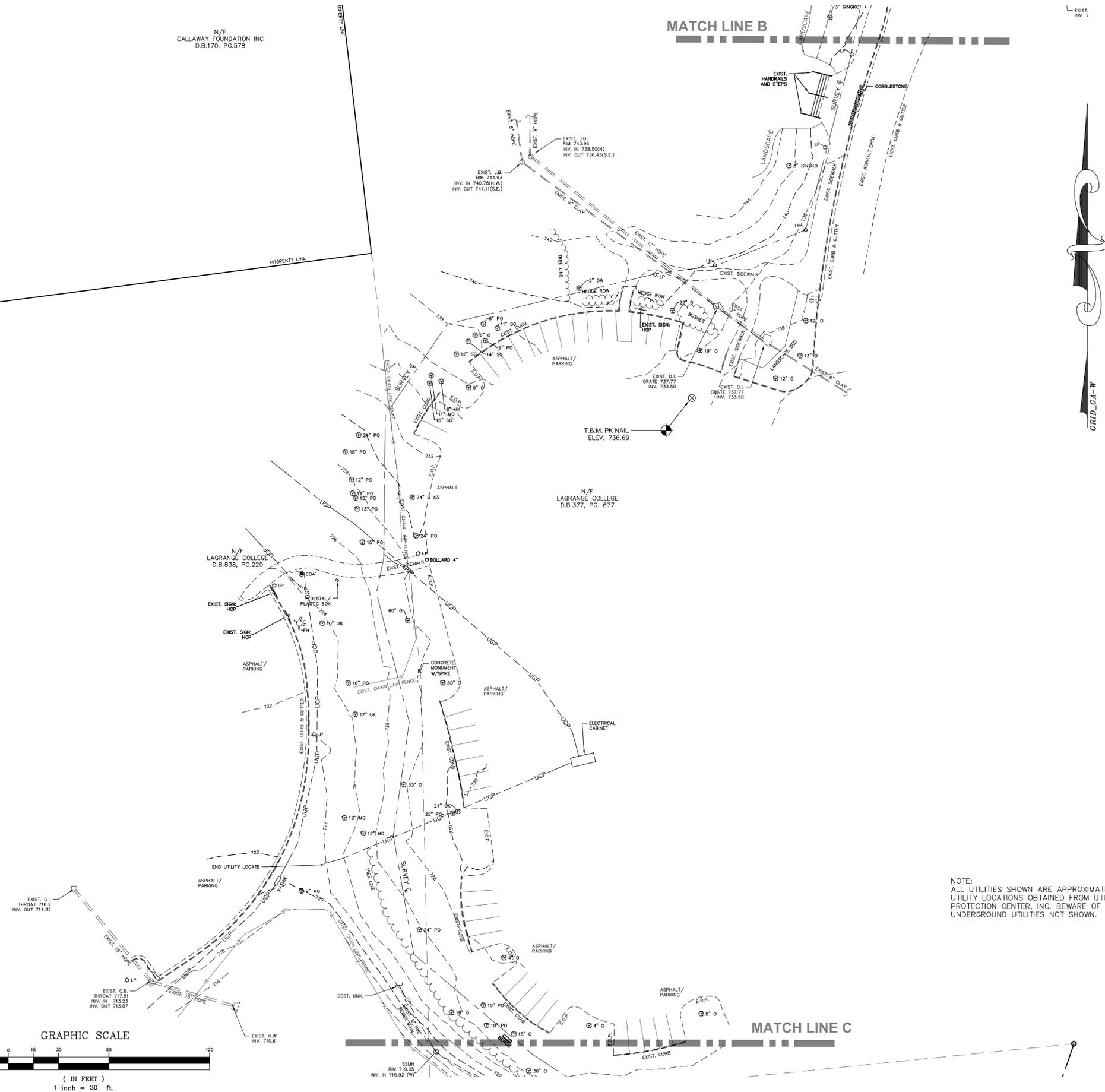
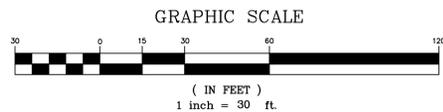


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LEGEND		



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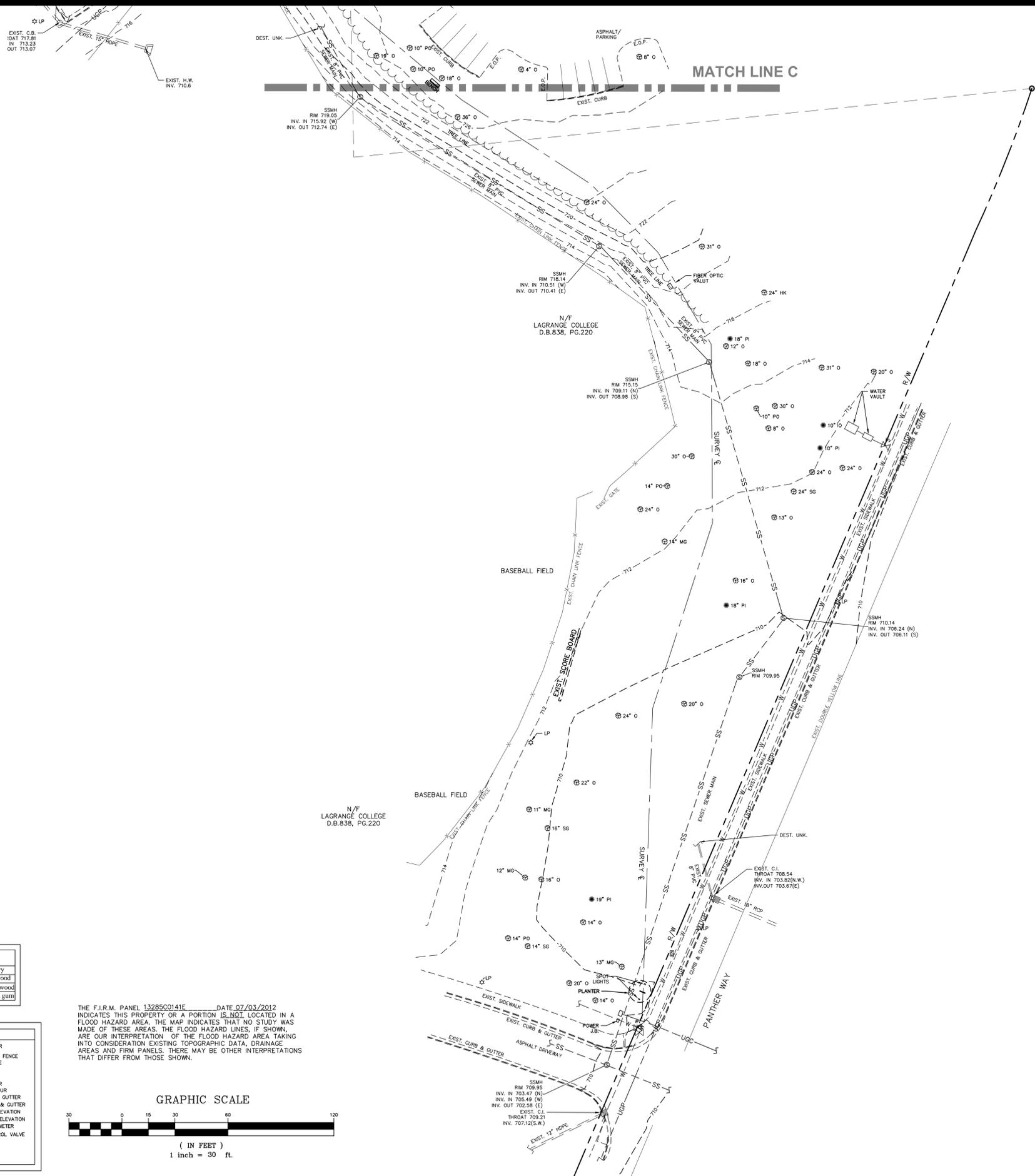
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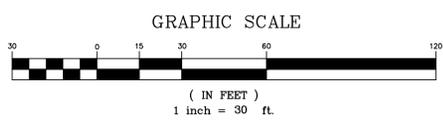
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SCALE: 1" = 30'  
JOB NUMBER: 180420  
DATE: 05-10-2018  
DESIGNED BY: S-03



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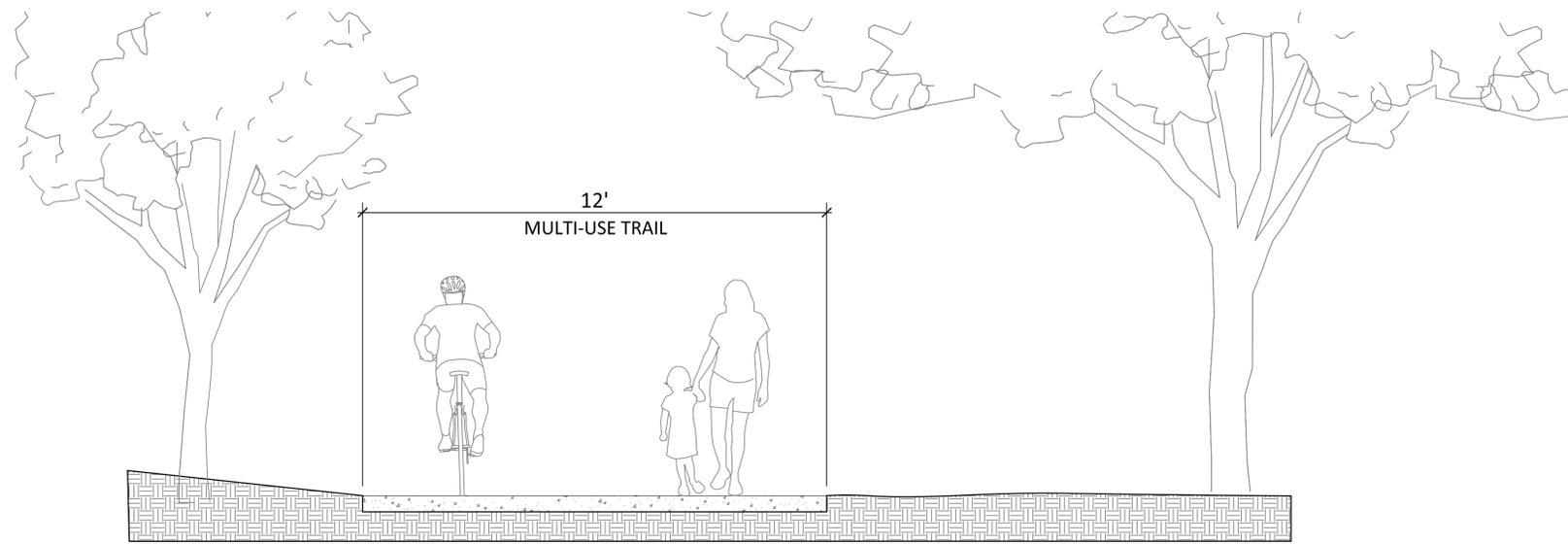
NO.	DATE	REVISION	DESCRIPTION



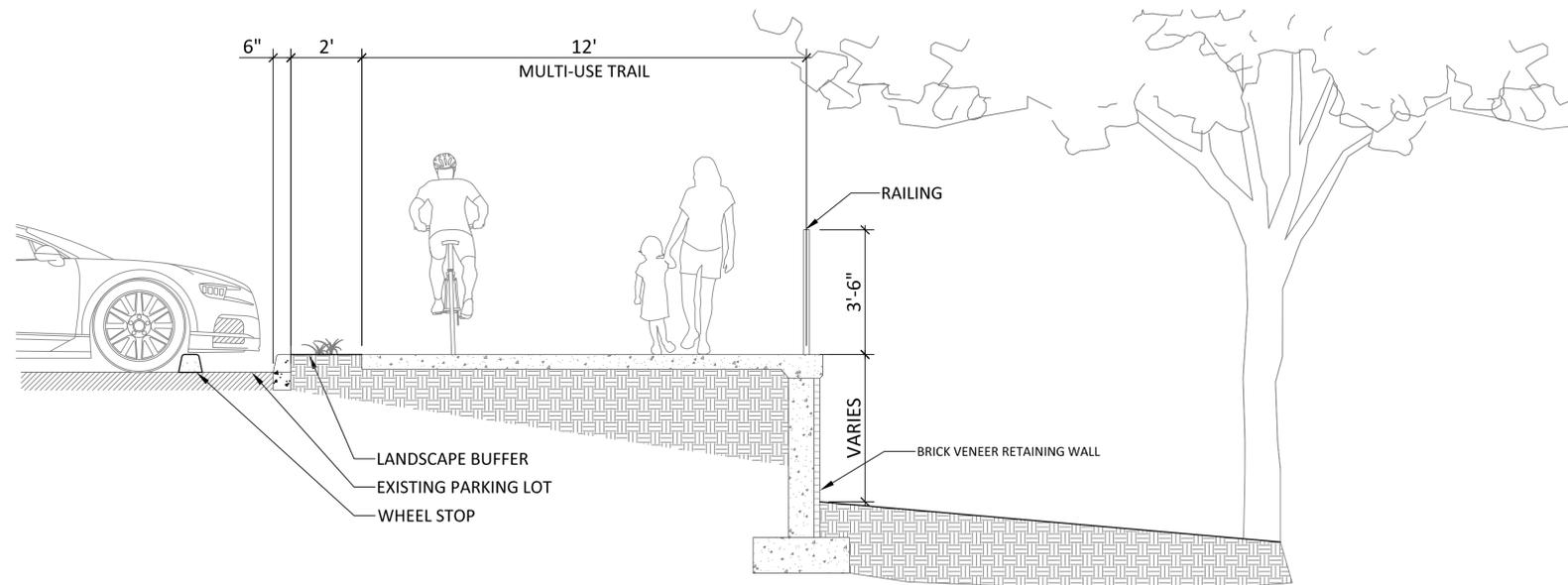
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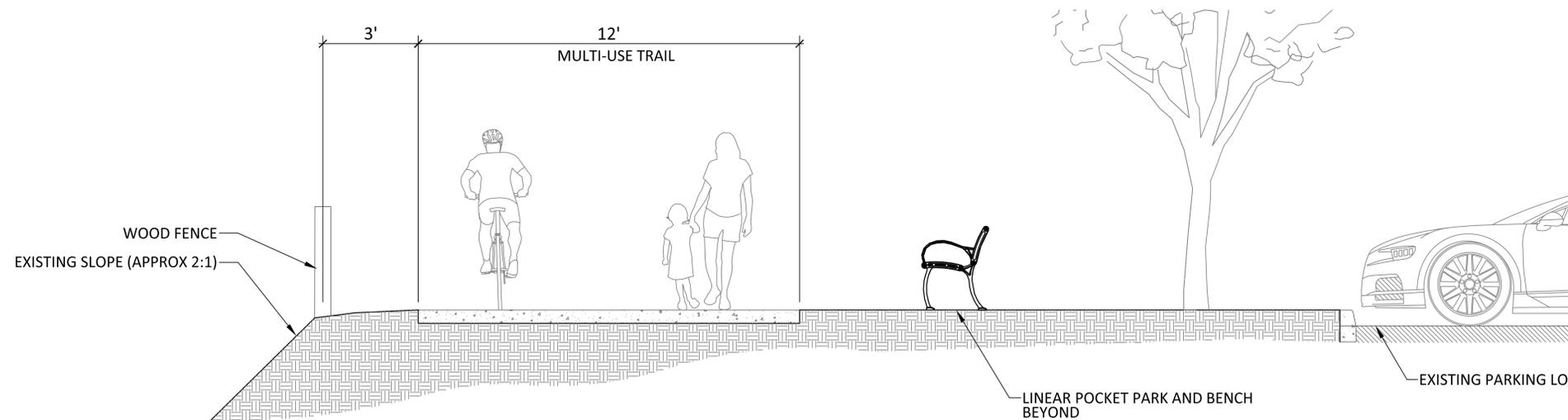
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 LOCATED IN LAND LOT 115 DISTRICT 6  
 TROUP COUNTY, GEORGIA  
 SCALE: 1" = 30'  
 JOB NUMBER: 180420  
 DESIGNED BY: [Name]



1 SITE SECTION  
TS-01 SCALE: 3/8" = 1'0"



2 SITE SECTION  
TS-01 SCALE: 3/8" = 1'0"



3 SITE SECTION  
TS-01 SCALE: 3/8" = 1'0"

**KAIZENCOLLABORATIVE**  
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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

**LaGRANGE THREAD  
PHASE 3B**  
**LaGRANGE, GA**

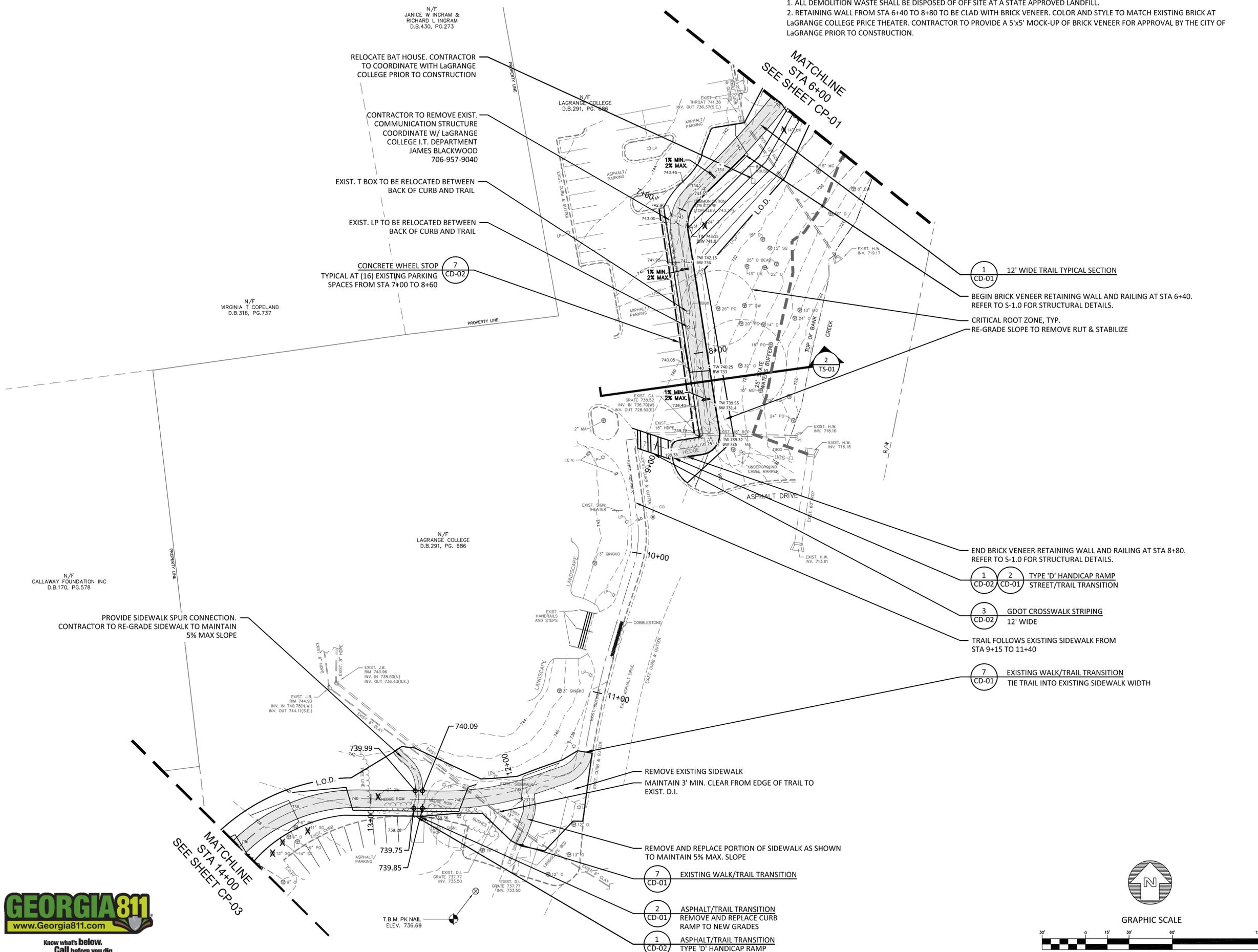


**TYPICAL SECTIONS**

SCALE: 3/8" = 1'  
DATE: AUGUST 1, 2018  
SHEET NAME: **TS-01**

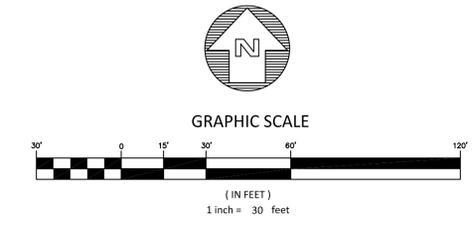


NOTES:  
 1. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A STATE APPROVED LANDFILL.  
 2. RETAINING WALL FROM STA 6+40 TO 8+80 TO BE CLAD WITH BRICK VENEER. COLOR AND STYLE TO MATCH EXISTING BRICK AT LaGRANGE COLLEGE PRICE THEATER. CONTRACTOR TO PROVIDE A 5'x5' MOCK-UP OF BRICK VENEER FOR APPROVAL BY THE CITY OF LaGRANGE PRIOR TO CONSTRUCTION.



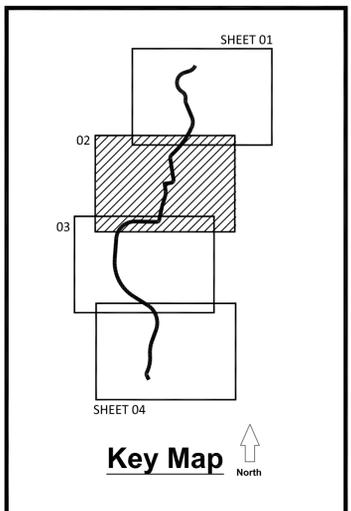
- 1 CD-01 12' WIDE TRAIL TYPICAL SECTION
- BEGIN BRICK VENEER RETAINING WALL AND RAILING AT STA 6+40. REFER TO S-1.0 FOR STRUCTURAL DETAILS.
- CRITICAL ROOT ZONE, TYP.
- RE-GRADE SLOPE TO REMOVE RUT & STABILIZE
- END BRICK VENEER RETAINING WALL AND RAILING AT STA 8+80. REFER TO S-1.0 FOR STRUCTURAL DETAILS.
- 1 CD-02 2 CD-01 TYPE 'D' HANDICAP RAMP STREET/TRAIL TRANSITION
- 3 CD-02 GDOT CROSSWALK STRIPING 12' WIDE
- TRAIL FOLLOWS EXISTING SIDEWALK FROM STA 9+15 TO 11+40
- 7 CD-01 EXISTING WALK/TRAIL TRANSITION TIE THE TRAIL INTO EXISTING SIDEWALK WIDTH

- 7 CD-01 EXISTING WALK/TRAIL TRANSITION
- 2 CD-01 ASPHALT/TRAIL TRANSITION REMOVE AND REPLACE CURB RAMP TO NEW GRADES
- 1 CD-02 ASPHALT/TRAIL TRANSITION TYPE 'D' HANDICAP RAMP



**KAIZENCOLLABORATIVE**  
 2390 Main Street | Tucker, GA 30084 | 404.239.2521

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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
 PROJECT MANAGER GGD

**LaGRANGE THREAD  
 PHASE 3B  
 LaGRANGE, GA**



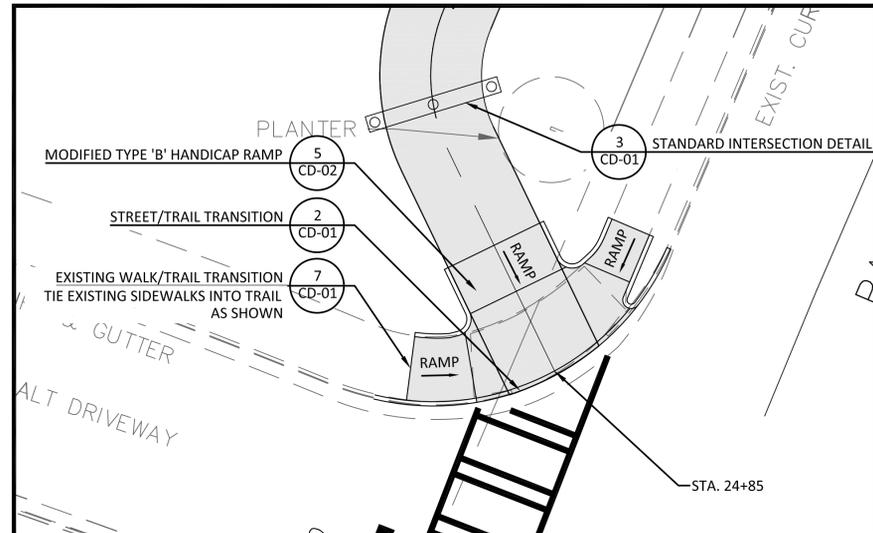
**CONSTRUCTION PLAN**

SCALE: 1"=30'  
 DATE: AUGUST 1, 2018

SHEET NAME: **CP-02**

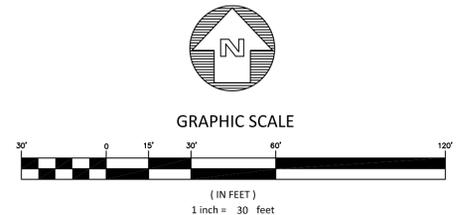
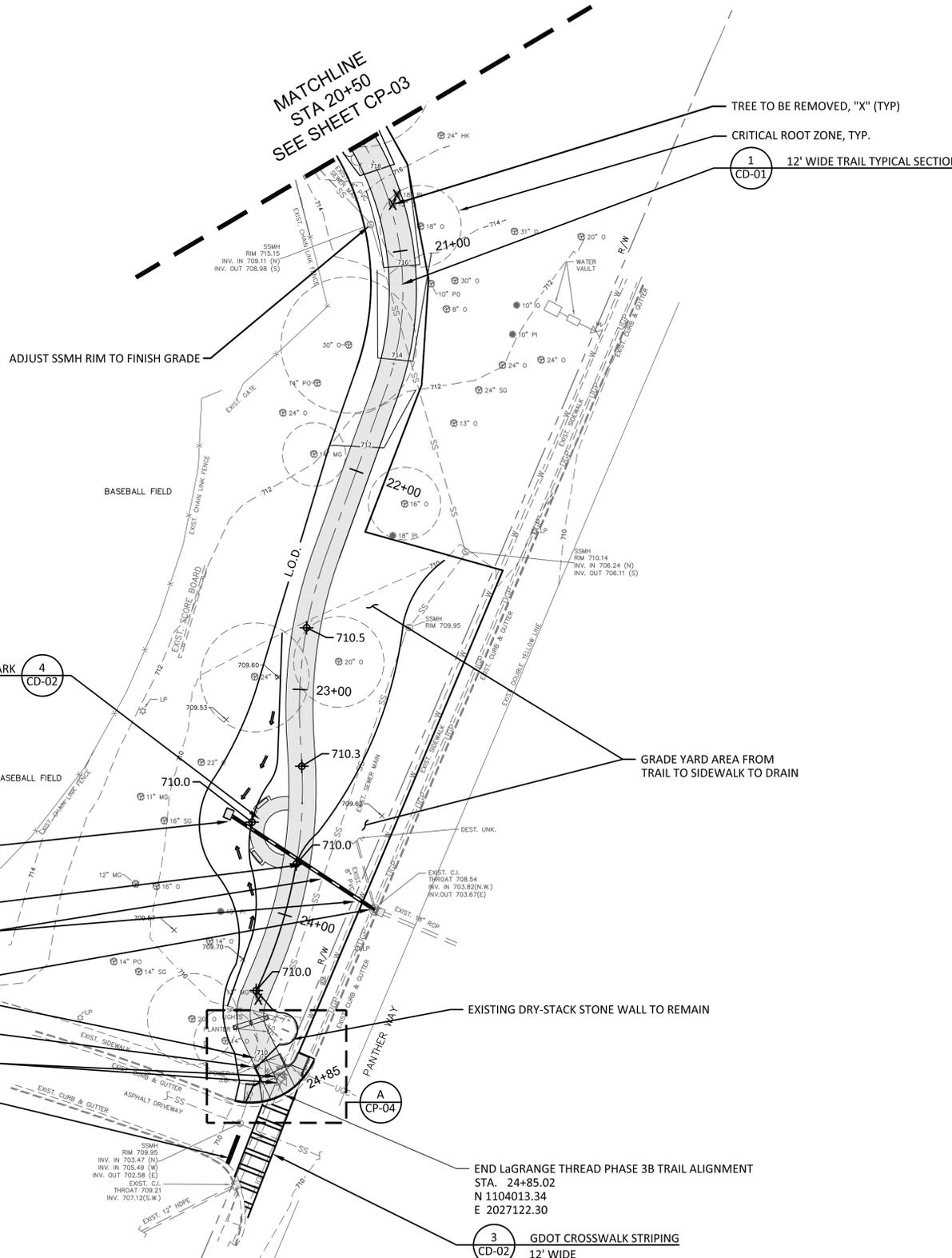






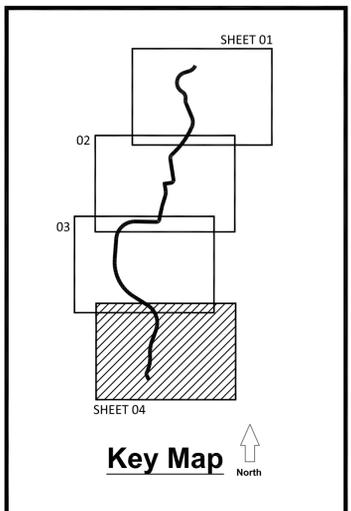
**PLAN ENLARGEMENT 'A' - TRAIL & SIDEWALK RAMP TRANSITION**  
**SCALE: 1" = 10'-0"**

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 2. RETAINING WALL FROM STA 6+40 TO 8+80 TO BE CLAD WITH BRICK VENEER. COLOR AND STYLE TO MATCH EXISTING BRICK AT LAGRANGE COLLEGE PRICE THEATER. CONTRACTOR TO PROVIDE A 5'x5' MOCK-UP OF BRICK VENEER FOR APPROVAL BY THE CITY OF LAGRANGE PRIOR TO CONSTRUCTION.



**KAIZEN COLLABORATIVE**  
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 FAX: (770) 834-1005  
 E-MAIL: mailbox@georgiawest.com



REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
 PROJECT MANAGER GGD

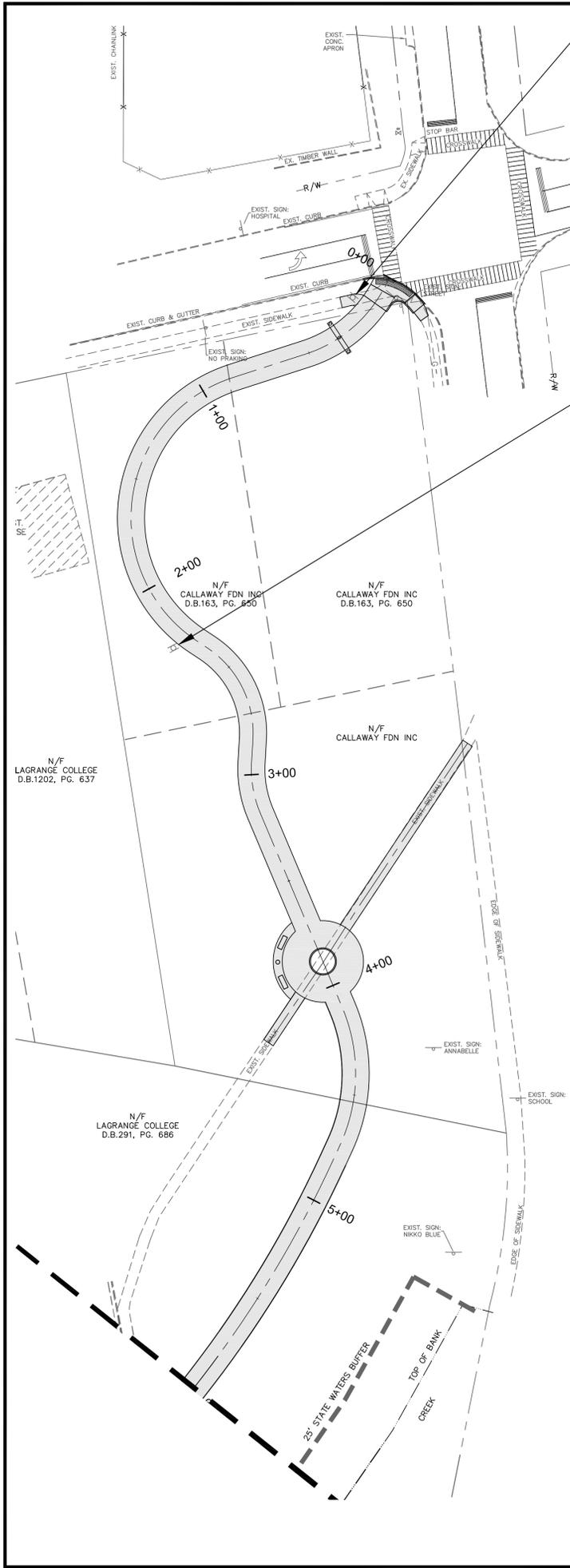
**LaGRANGE THREAD  
 PHASE 3B  
 LaGRANGE, GA**



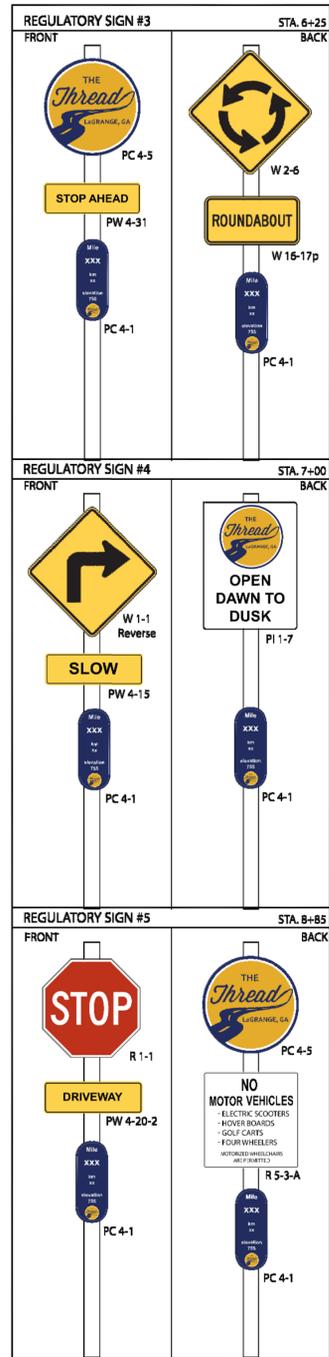
**CONSTRUCTION PLAN**

SCALE: 1"=30'  
 DATE: AUGUST 1, 2018

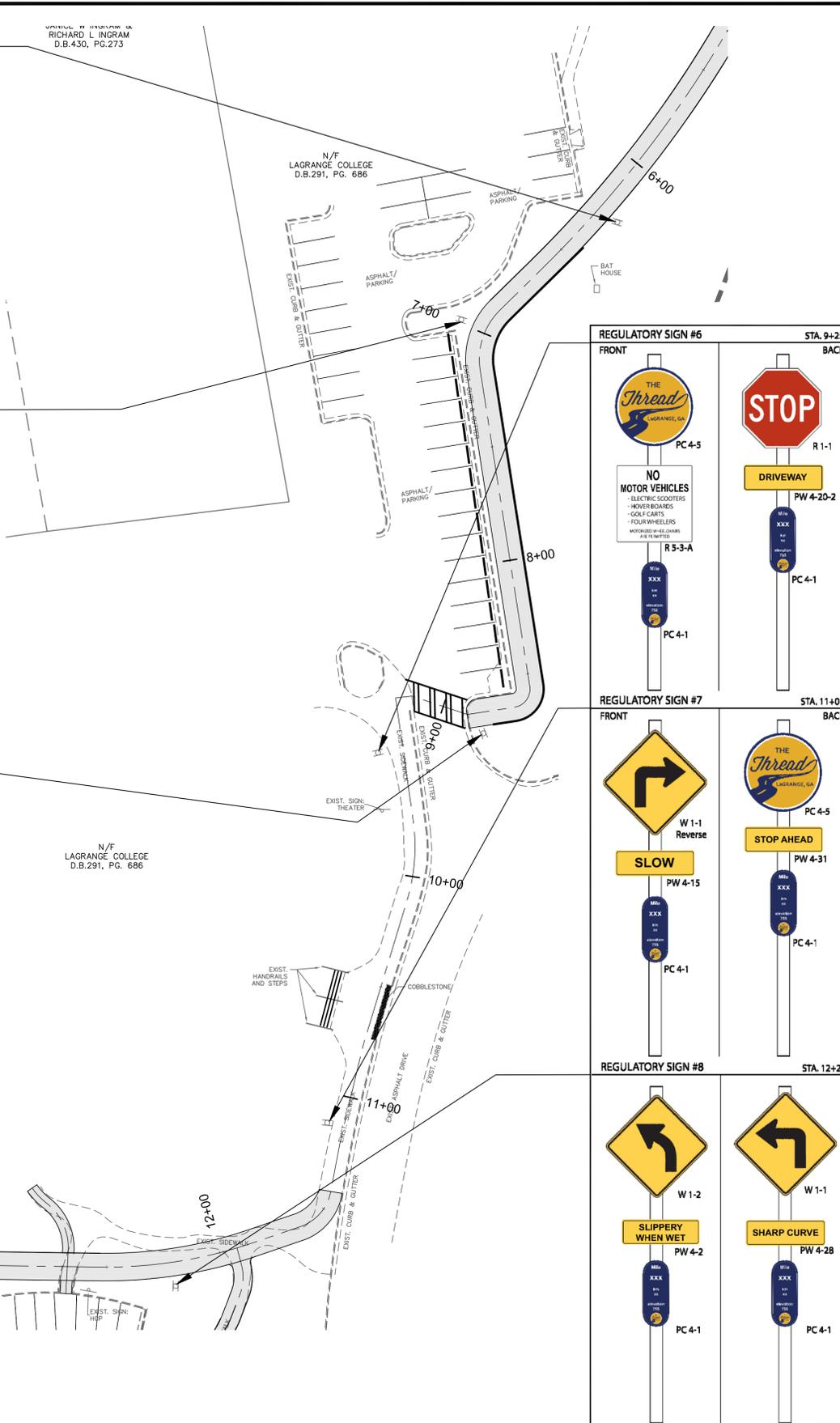
SHEET NAME: **CP-04**



SIGN LAYOUT SCALE: 3/4" = 1'

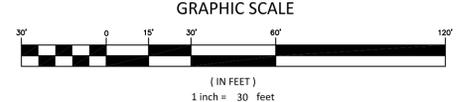


SIGN LAYOUT SCALE: 3/4" = 1'



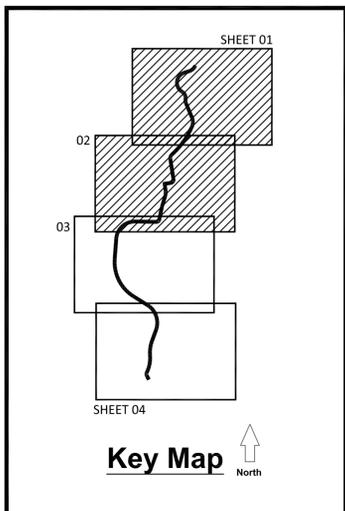
SIGN LAYOUT SCALE: 3/4" = 1'

- CUSTOM SIGN NOTES:**
- REFER TO SHEET SM-03 FOR SIGN DETAILS AND SPECIFICATIONS.
  - ALL SIGNS TO BE FIELD LOCATED BY PROJECT MANAGER FOR FINAL LOCATION.
  - ALL SIGNS SHALL BE LOCATED 2'-0" CLEAR FROM EDGE OF TRAIL TO OUTSIDE EDGE OF SIGN.
  - CONTRACTOR TO SUBMIT FINAL LAYOUT PROOF TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
  - CONTRACTOR TO REQUEST CUSTOM SIGN PANEL FINAL VECTOR FILES FROM LANDSCAPE ARCHITECT PRIOR TO FABRICATION. CONTACT: 404-239-2521.



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REVISION	DATE	DESCRIPTION

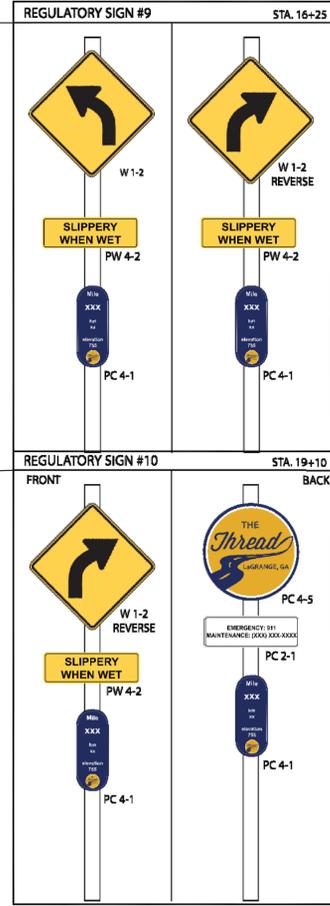
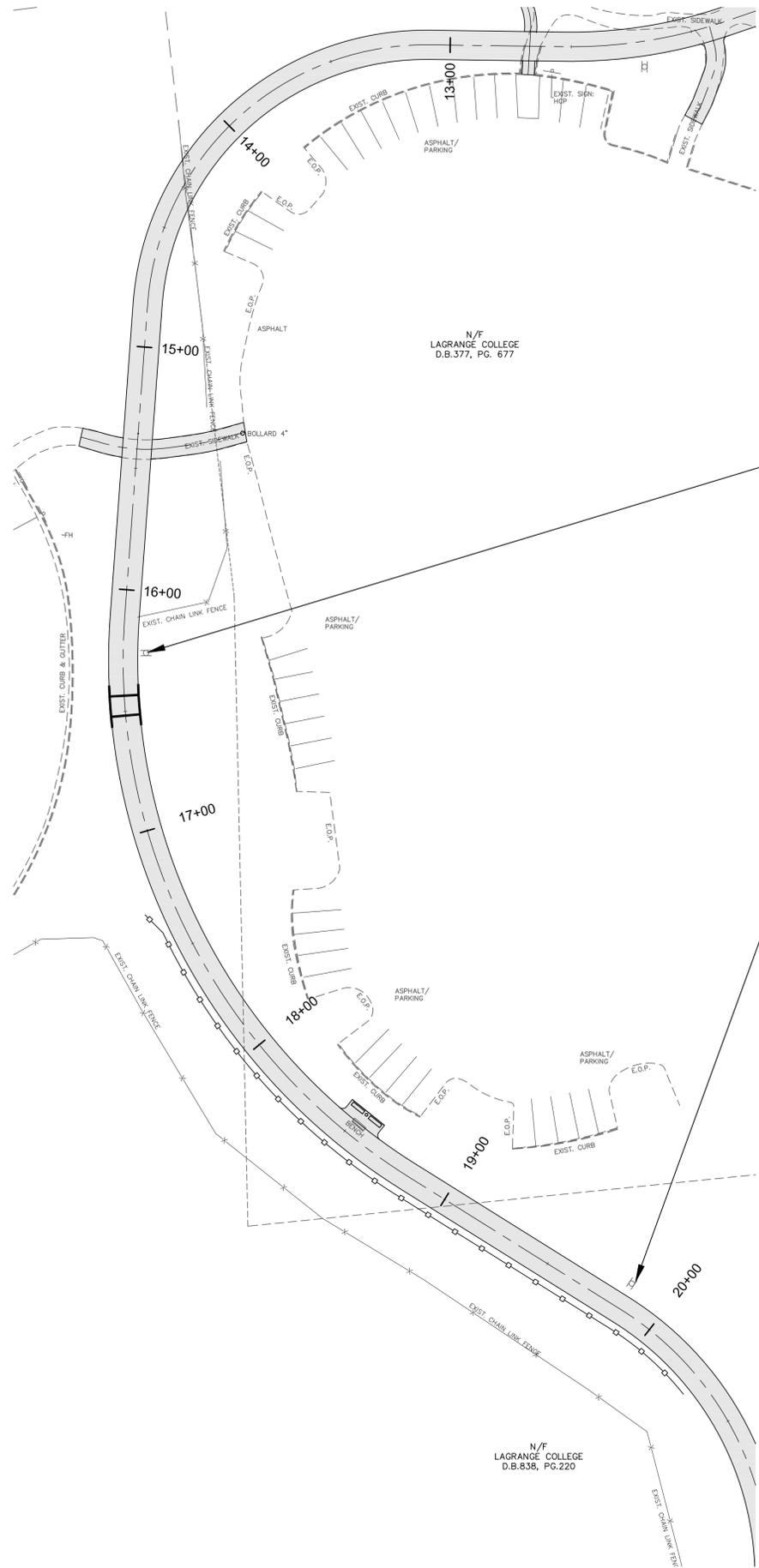
KAIZEN PROJECT # 2018 - 153  
 PROJECT MANAGER GGD

**LaGRANGE THREAD  
 PHASE 3B  
 LaGRANGE, GA**



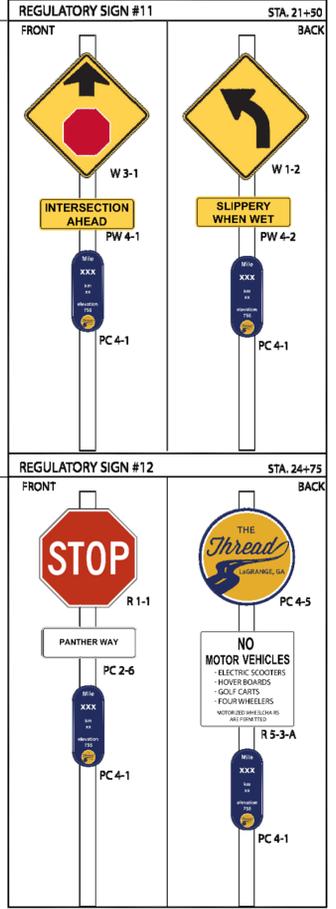
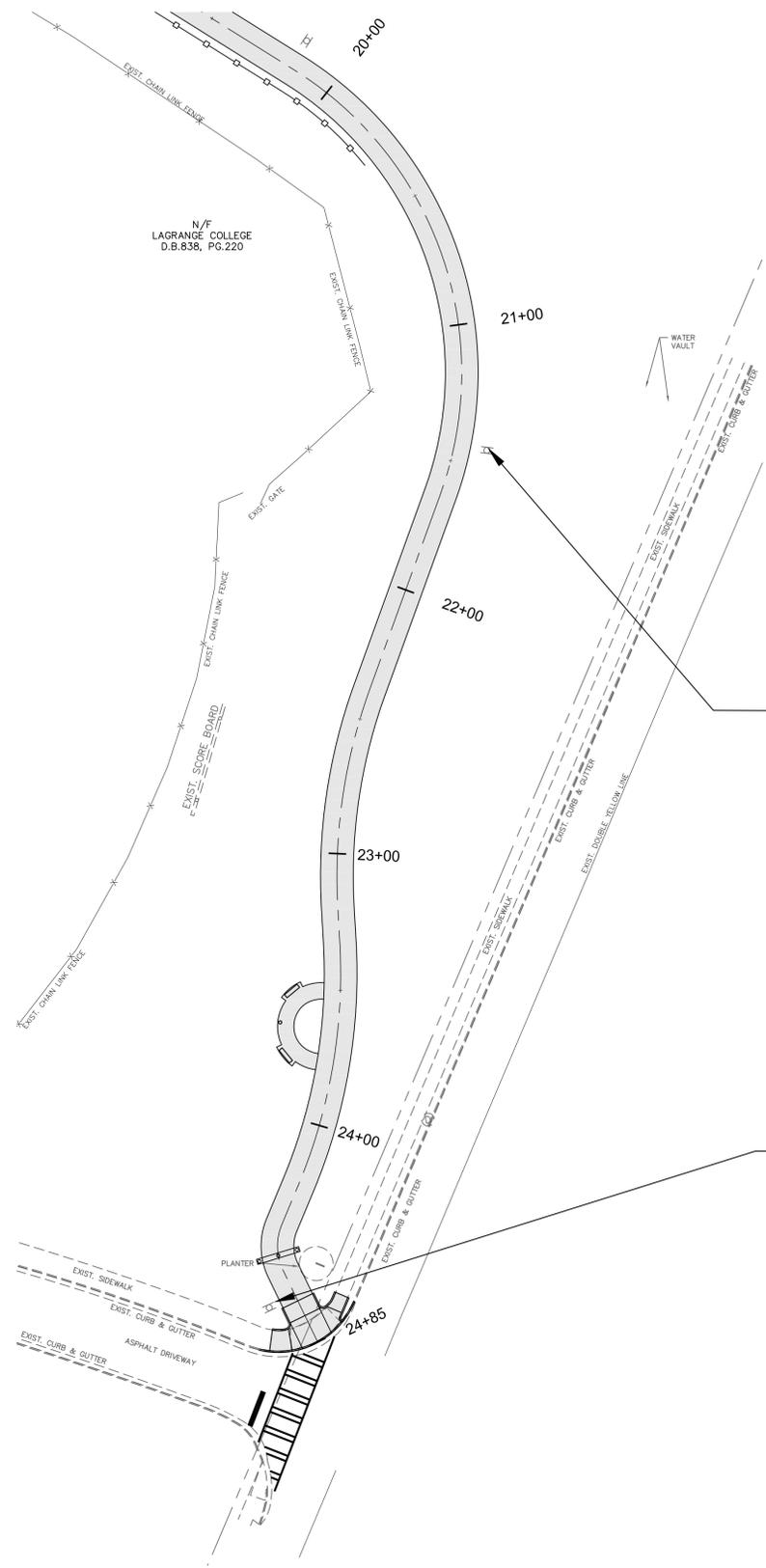
**SIGNING AND MARKING  
 PLAN**

SCALE: 1"=30'  
 DATE: AUGUST 1, 2018  
 SHEET NAME: SM-01

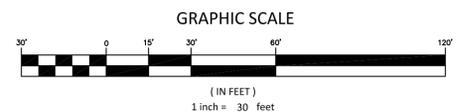


SIGN LAYOUT SCALE: 3/4" = 1'

- CUSTOM SIGN NOTES:**
1. REFER TO SHEET SM-03 FOR SIGN DETAILS AND SPECIFICATIONS.
  2. ALL SIGNS TO BE FIELD LOCATED BY PROJECT MANAGER FOR FINAL LOCATION.
  3. ALL SIGNS SHALL BE LOCATED 2'-0" CLEAR FROM EDGE OF TRAIL TO OUTSIDE EDGE OF SIGN.
  4. CONTRACTOR TO SUBMIT FINAL LAYOUT PROOF TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
  5. CONTRACTOR TO REQUEST CUSTOM SIGN PANEL FINAL VECTOR FILES FROM LANDSCAPE ARCHITECT PRIOR TO FABRICATION. CONTACT: 404-239-2521.

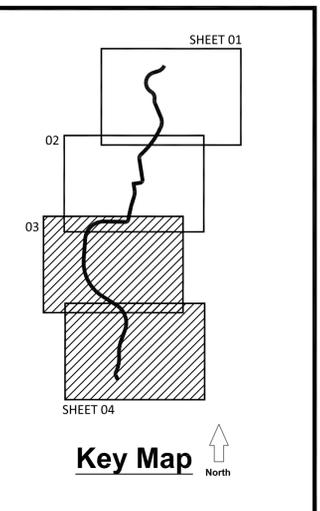


SIGN LAYOUT SCALE: 3/4" = 1'



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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

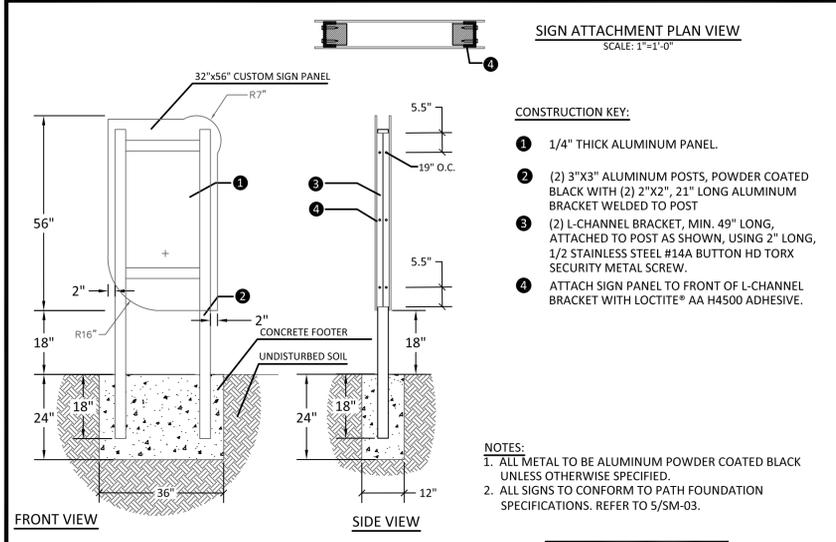
**LaGRANGE THREAD  
PHASE 3B  
LaGRANGE, GA**



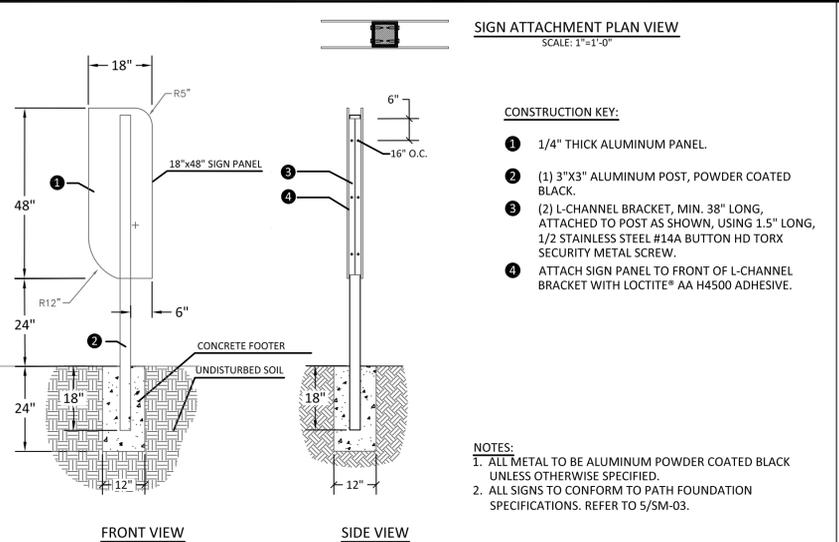
**SIGNING AND MARKING  
PLAN**

SCALE: 1"=30'  
DATE: AUGUST 1, 2018

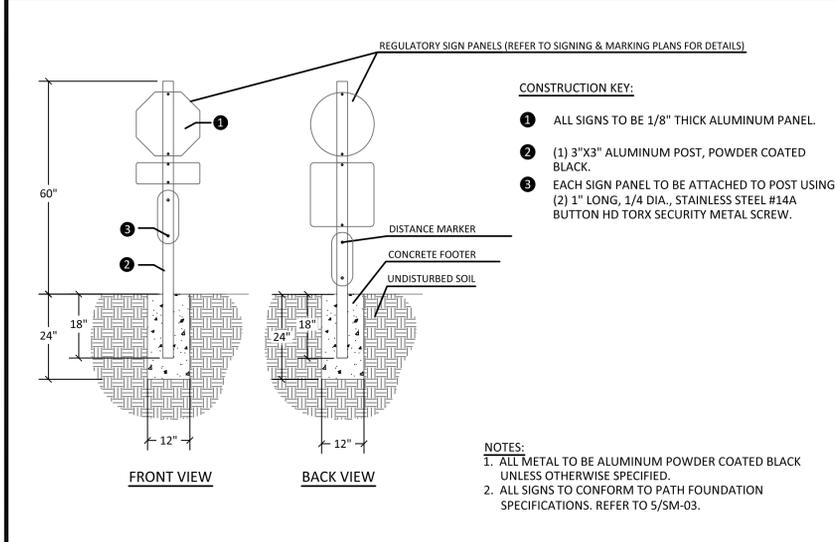
SHEET NAME: **SM-02**



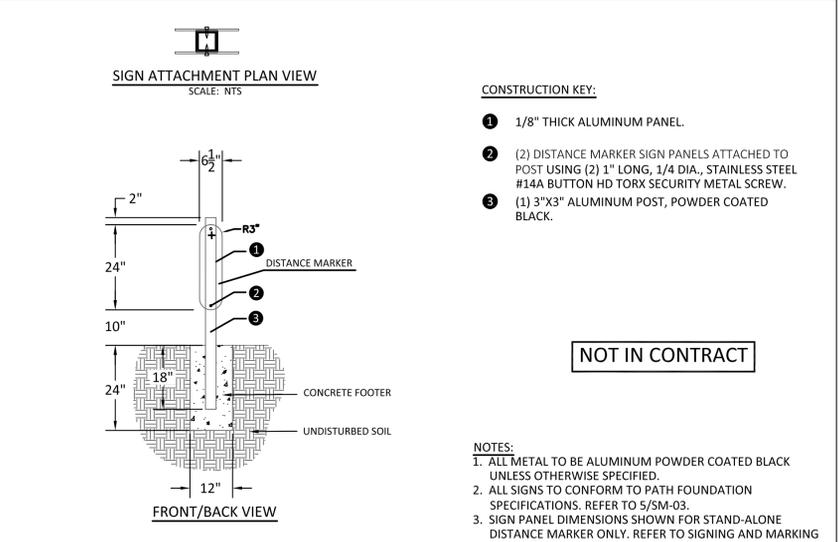
**1 KIOSK SIGN**      **NOT IN CONTRACT**  
SM-03      SCALE: 1/2" = 1'-0"



**2 DIRECTIONAL SIGN**      **NOT IN CONTRACT**  
SM-03      SCALE: 1/2" = 1'-0"



**3 REGULATORY SIGN**      **NOT IN CONTRACT**  
SM-03      SCALE: 1/2" = 1'-0"



**4 DISTANCE MARKER**      **NOT IN CONTRACT**  
SM-03      SCALE: 1/2" = 1'-0"

**PATH FOUNDATION SIGN SPECIFICATIONS**

- ALUMINUM SIGN BLANKS SHOULD MEET REQUIREMENTS OF GEORGIA DOT SECTION 912--SIGN BLANKS AND PANELS. ALL SIGNS TO BE MADE WITH AT LEAST 0.080-INCH THICK ALUMINUM (FOR SIGNS WITH AN AREA OF 9 FT<sup>2</sup> OR LESS) OR AT LEAST 0.10-INCH THICK ALUMINUM (FOR SIGNS LARGER THAN 9 FT<sup>2</sup>) USING METAL THAT MEETS THE REQUIREMENTS OF ASTM B 209 (B 209M), ALLOY 6061-T-6 OR 5052-H38.
- 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 RIGHT-OF-WAY:

RETRO REFLECTIVE VINYL PRODUCT NAME	LIFE EXPECTANCY
3M™ High Intensity Reflective Sheeting	10YR
ORALITE® 5800 High Intensity Grade Reflective Sheeting	10YR
Reflective High Intensity Grade Sign Vinyl Type III	10YR

OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE      AT LEAST 10YR

- 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:

CUSTOM TEXT AND GRAPHICS PRODUCT NAME	LIFE EXPECTANCY
3M Scotchcal Graphic Film With Comply™ Adhesive IJ170Cv3	10YR
Direct Print to Aluminum with Grip-Gard® Plus or Grip-Gard BC System with high gloss clear-coat	10YR

OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE      AT LEAST 10YR

- ALL 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	LIFE EXPECTANCY
Arlon 3350 Anti-Graffiti PVDF Overlaminate	10YR
3M™ Protective Overlay Film Series 1160	10YR

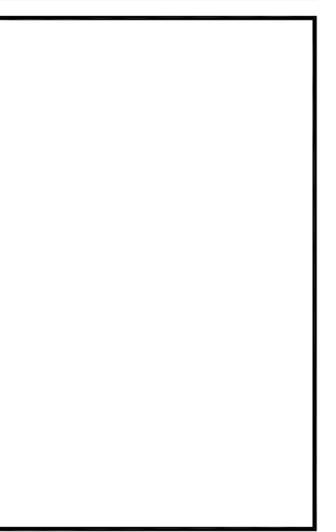
OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE

- ALL SIGNS MUST BE PRINTED WITH NAME BRAND INKS FROM THE PRINTING EQUIPMENT MANUFACTURER FOR THE PRINTER USED TO CREATE THE SIGN.
- ON STANDARD SIGNS, THE BLACK BORDER IS INSET 1/4" FROM EACH EDGE. THE THICKNESS OF THE BLACK BORDER IS ALSO 1/4", 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 MATCH STANDARD DIE CUT CURVES ON THE CORNERS.
- PATH GREEN IS 85 - 20 - 69 - 4 IN CMYK VALUES. YELLOW ON PATH SIGNS IS 0 - 15 - 100 - 0. OTHER COLORS WILL BE DETERMINED FROM THE VECTOR FILES IN THE SIGN MATRIX.

**5 SIGN SPECIFICATIONS**  
SM-03

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REVISION	DATE	DESCRIPTION

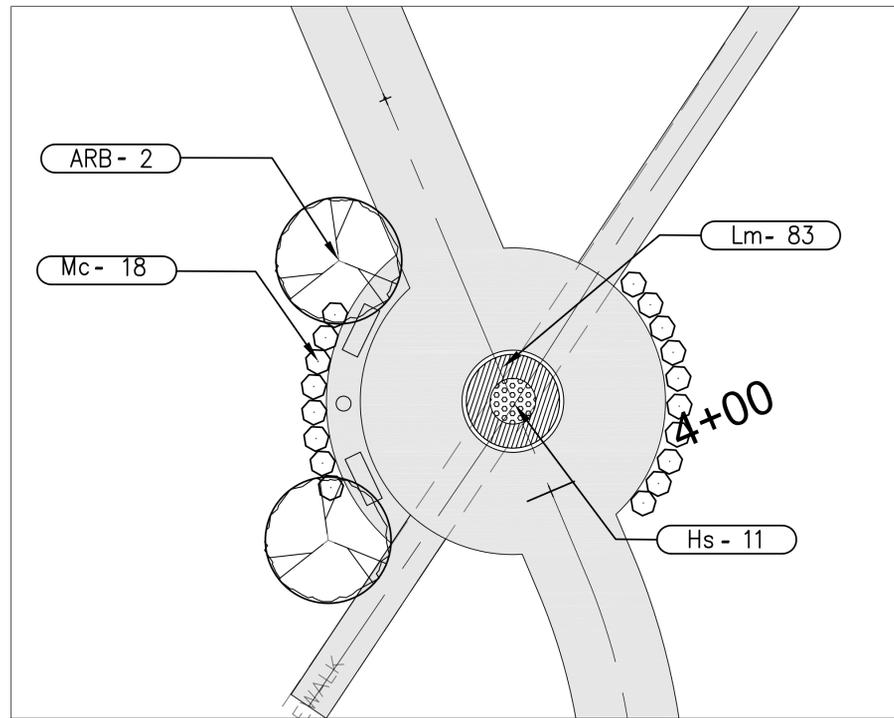
KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

**LaGRANGE THREAD  
PHASE 3B  
LaGRANGE, GA**

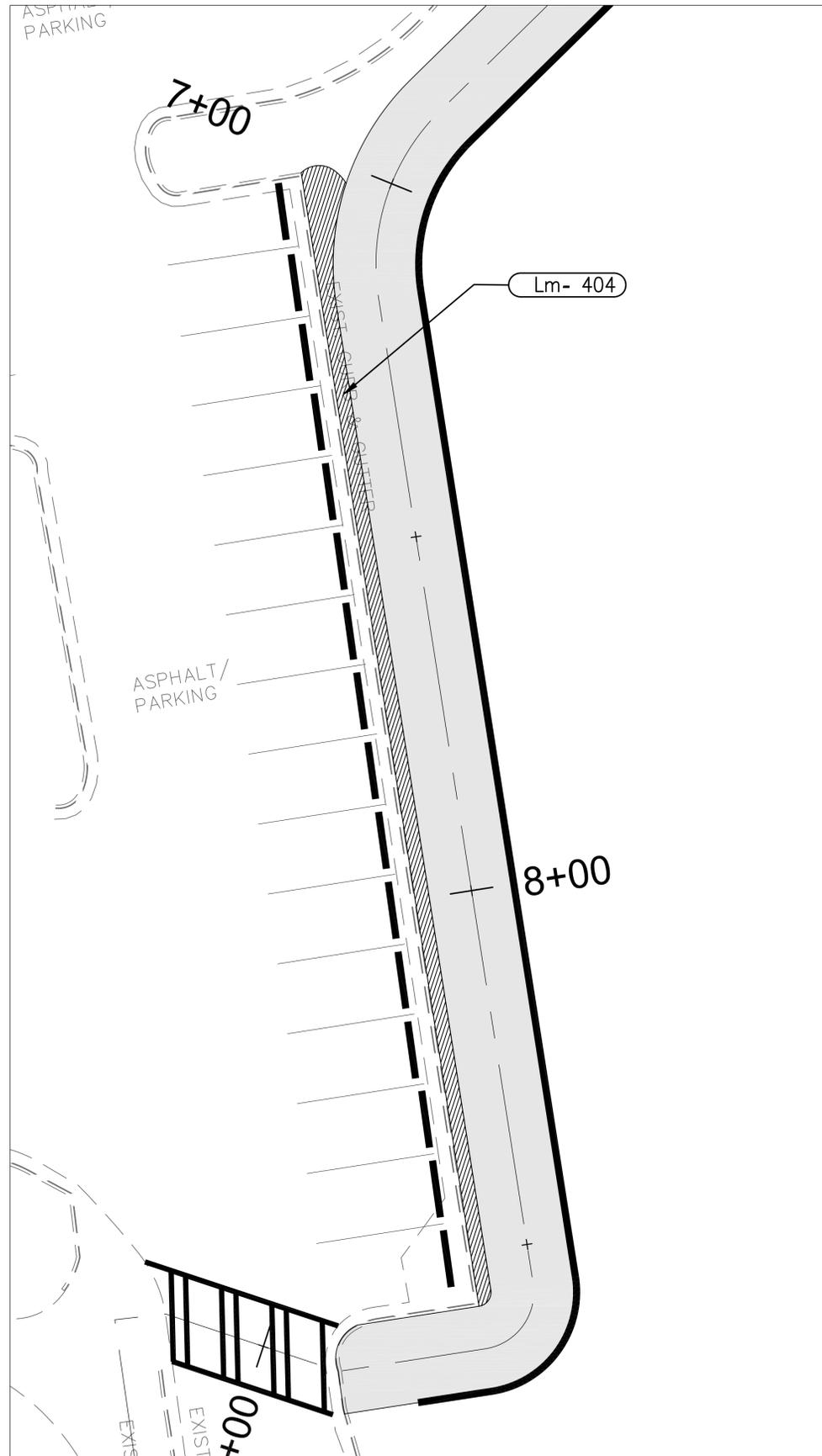


**SIGNING AND MARKING  
DETAILS**

SCALE: 1/2"=1'  
DATE: AUGUST 1, 2018  
SHEET NAME: **SM-03**



ENLARGEMENT A (STA 4+00) - SCALE: 1" = 10'-0"



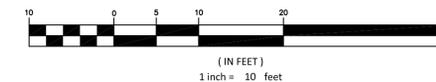
ENLARGEMENT B (STA 7+00) - SCALE: 1" = 10'-0"

**LEGEND**

-  (ARB) 'Brandywine' Red Maple / *Acer rubrum* 'Brandywine'
-  (GB) Ginkgo / *Ginkgo biloba*
-  (Mc) Pink Muhly Grass/ *Muhlenbergia capillaris*
-  (Lm) Big Blue Liriope/ *Liriope muscari* 'Big Blue'
-  (Hs) Happy Return Daylily / *Hemerocallis* x 'Happy Return'

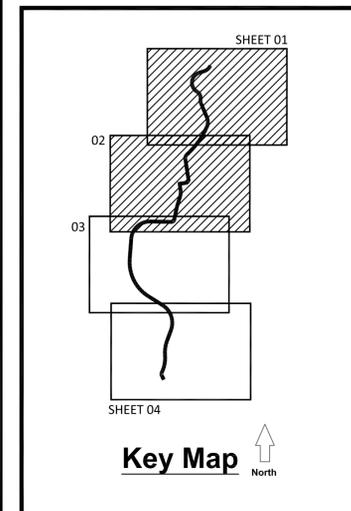


GRAPHIC SCALE



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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
 PROJECT MANAGER GGD

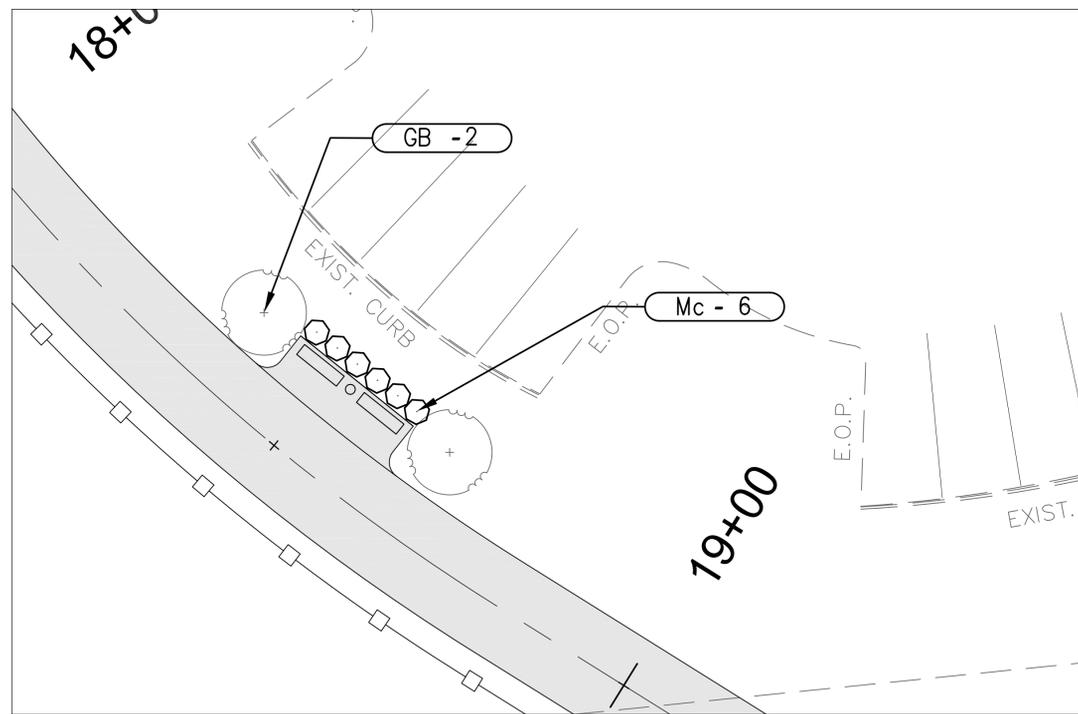
**LaGRANGE THREAD  
 PHASE 3B  
 LaGRANGE, GA**



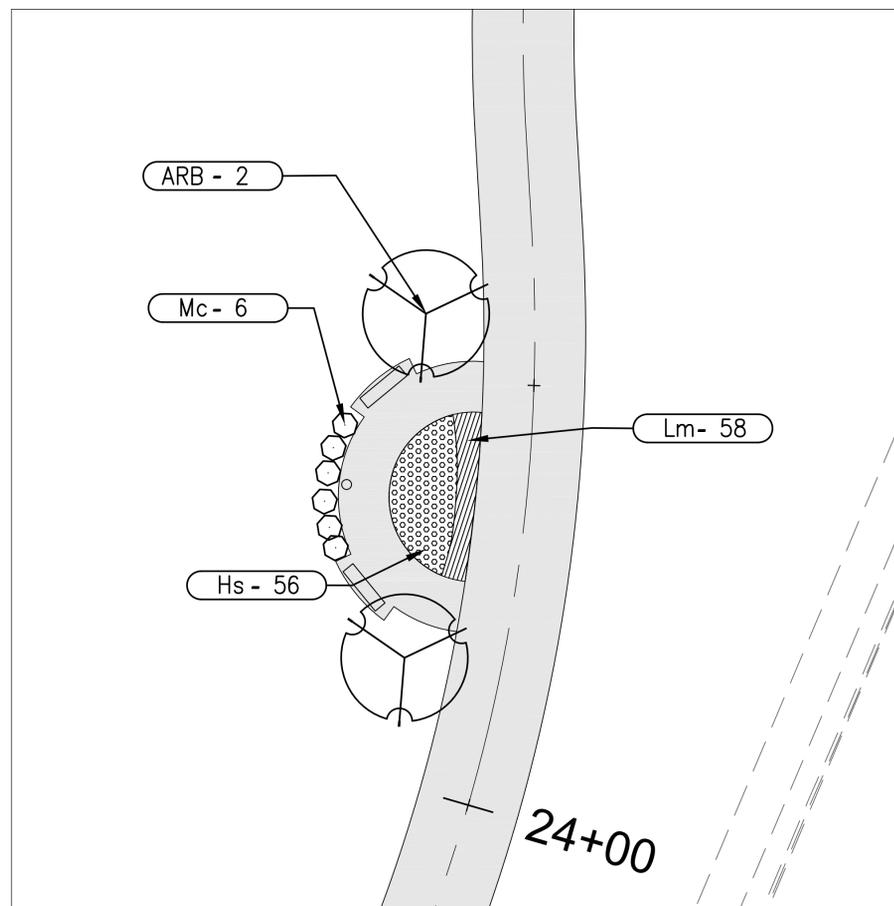
**LANDSCAPE PLAN**

SCALE: 1"=10'  
 DATE: AUGUST 1, 2018

SHEET NAME: **LP-01**



ENLARGEMENT A (STA 18+50) - SCALE: 1" = 10'-0"



ENLARGEMENT B (STA 23+50) - SCALE: 1" = 10'-0"

LEGEND



(ARB) 'Brandywine' Red Maple / Acer rubrum 'Brandywine'



(GB) Ginkgo / Ginkgo biloba



(Mc) Pink Muhly Grass/ Muhlenbergia capillaris



(Lm) Big Blue Liriope/ Liriope muscari 'Big Blue'



(Hs) Happy Return Daylily / Hemerocallis x 'Happy Return'



Know what's below.  
Call before you dig.



GRAPHIC SCALE



(IN FEET)  
1 inch = 10 feet

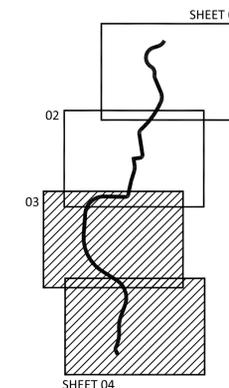
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Key Map North

REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

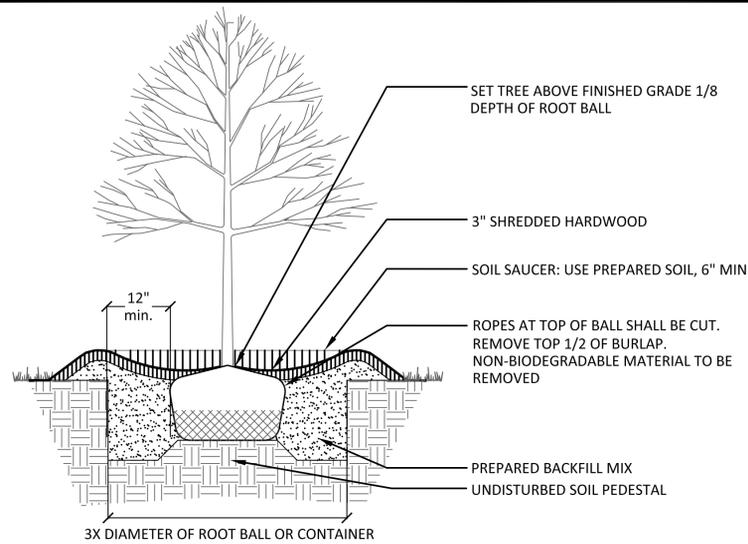
**LaGRANGE THREAD  
PHASE 3B  
LaGRANGE, GA**



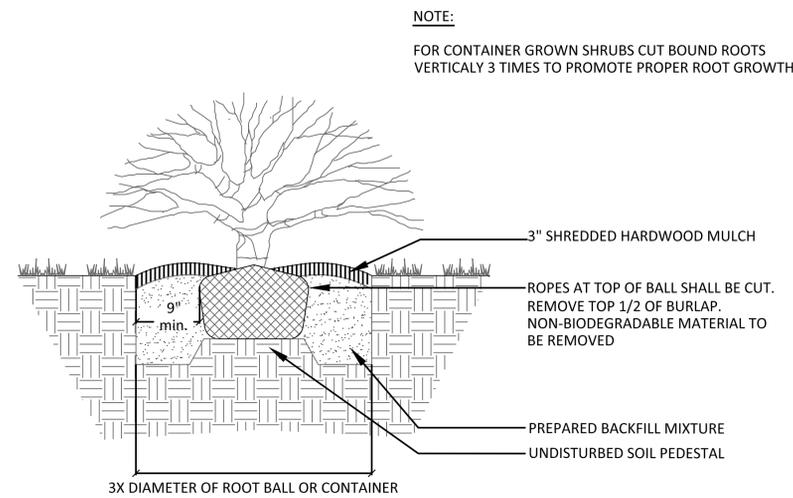
**LANDSCAPE PLAN**

SCALE: 1"=10'  
DATE: AUGUST 1, 2018

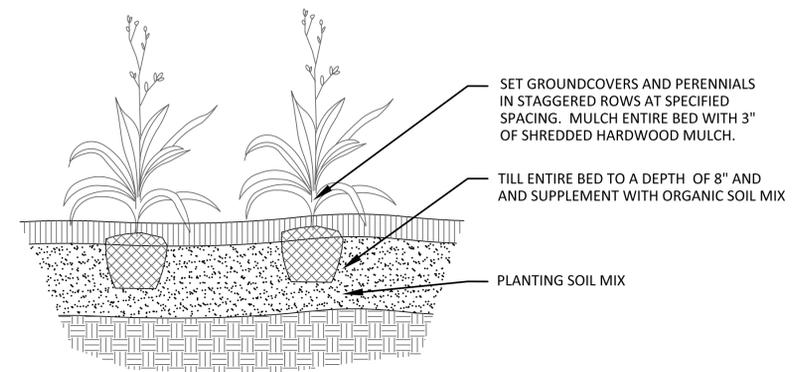
SHEET NAME: **LP-02**



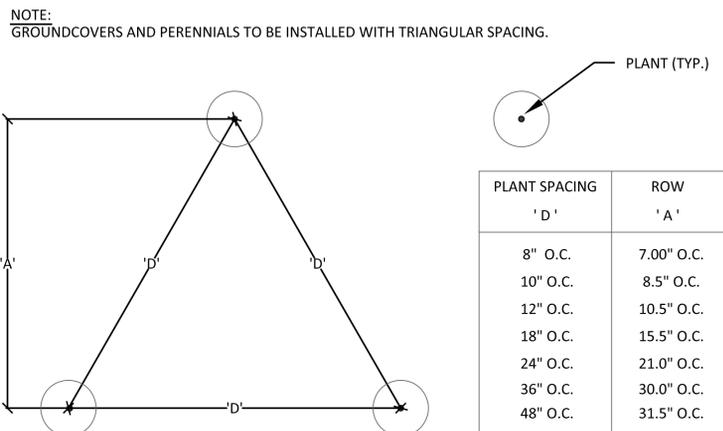
**1 TREE PLANTING DETAIL**  
LD-01 SCALE: 3/4" = 1'-0"



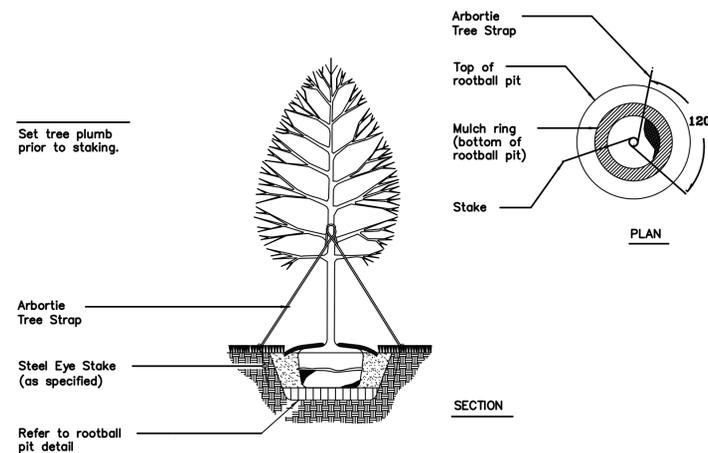
**2 SHRUB PLANTING DETAIL**  
LD-01 SCALE: 1" = 1'-0"



**3 GROUNDCOVER PLANTING DETAIL**  
LD-01 SCALE: 1" = 1'-0"



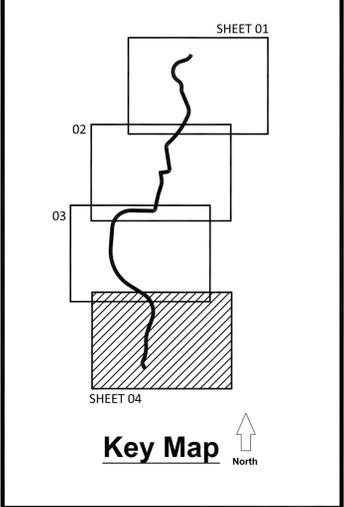
**4 PLANT SPACING DIAGRAM**  
LD-01 SCALE: NTS



**5 TYPICAL TREE STAKING DETAIL**  
LD-01 SCALE: N.T.S.

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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

**LaGRANGE THREAD  
PHASE 3B  
LaGRANGE, GA**



**LANDSCAPE DETAILS**

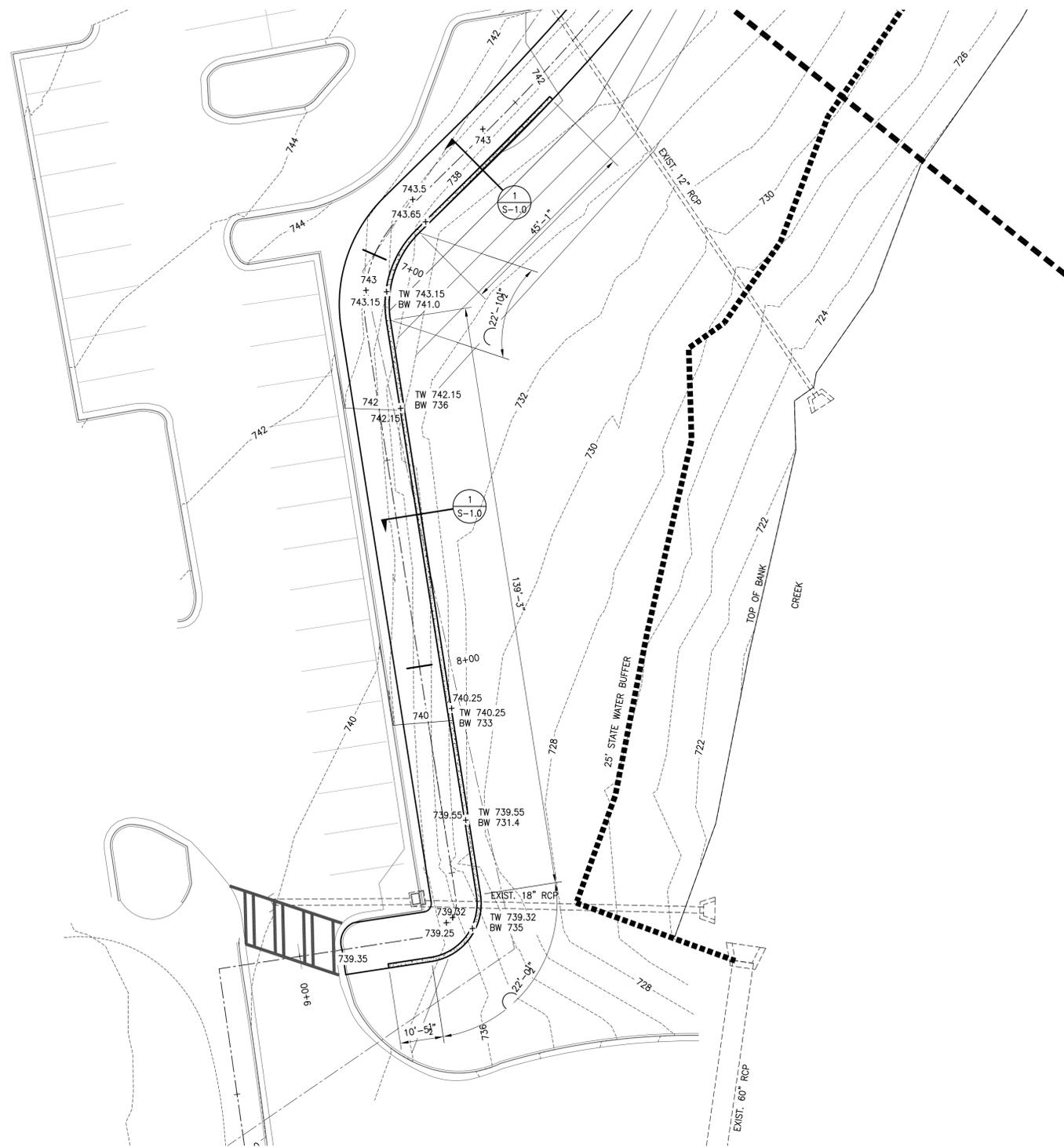
SCALE: 1"=30'  
DATE: AUGUST 1, 2018

SHEET NAME: **LD-01**

KEY	QTY	KEY	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	CALIPER	ROOT	REMARKS
<b>TREES</b>									
ARB	4	ARB	Acer rubrum 'Brandywine'	Brandywine' Red Maple	10'		3"	B&B	Stong central leader
GB	2	GB	Ginko biloba	Ginko	10'		3"	B&B	Stong central leader
Sub	6								
<b>SHRUBS</b>									
Mc	30	Mc	Muhlenbergia capillaris	Pink Muhly Grass		30"		1 gal.	Full, Vigorous
<b>GROUNDCOVERS</b>									
Hs	67	Hs	Hemerocallis x 'Happy Return'	Happy Return Daylily		18"		1 gal.	Full, Vigorous, Reblooming variety only
Lm	545	Lm	Liriope muscari 'Big Blue'	Big Blue Liriope		12"		1 gal.	Full, Vigorous
Sub	612								
<b>MULCH</b>									
	12			Pine Straw				Bale	Clean, Debris Free

**PLANT SCHEDULE**

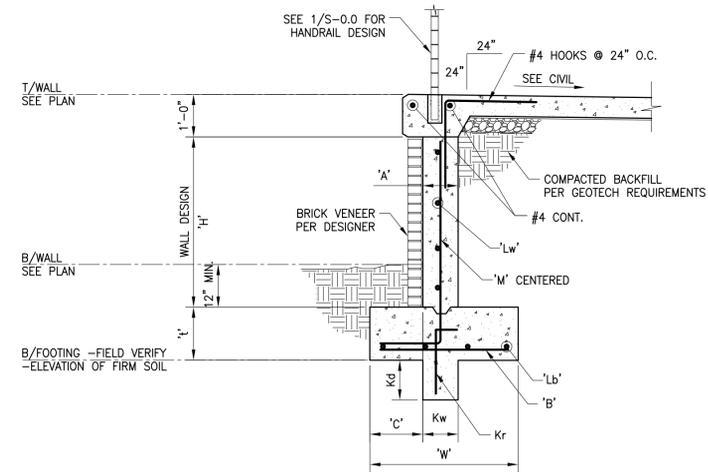




**RETAINING WALL SITE PLAN**  
SCALE: 1/8" = 1'-0"

**NOTE:**

- SEE CP-02 FOR TRAIL PLACEMENT & GRADE ELEVATIONS. PLAN SHOWN FOR REFERENCE ONLY.



H	A	W	C	t	M	Lw	B	Lb	Kd	Kw	Kr
ft	in	ft-in	ft-in	in					in	in	
<4	8	2-6	1-3	12	#4@12	#4@12	#5@12	3#5	NA	NA	NA
5	8	3-6	1-3	12	#4@12	#4@12	#5@12	3#5	NA	NA	NA
6	8	4-0	1-3	12	#4@10	#4@12	#5@12	4#5	6	10	NA
7	8	4-6	1-6	14	#5@12	#4@12	#5@12	5#5	10	10	#4@18
8	10	5-0	1-6	14	#5@10	#4@10	#5@12	5#5	14	10	#4@18
9	10	6-0	2-0	16	#6@10	#4@10	#5@9	8#5	16	12	#4@18

**RETAINING WALL DESIGN NOTES:**

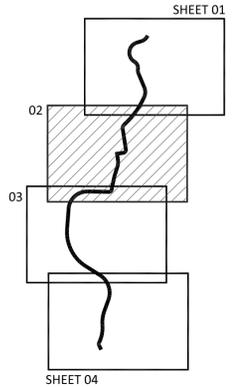
- SEE CONSTRUCTION PLANS FOR RETAINING WALL LOCATION AND HEIGHTS.
- SEE GENERAL NOTES FOR CONCRETE STRENGTH AND STEEL REINFORCING REQUIREMENTS.
- ASSUMED SOIL PROPERTIES,  $\gamma = 110$  pcf,  $u = 0.35$ ,  $P_a = 40$  psf,  $P_p = 250$  psf,  $\phi = 28$  deg
- SURCHARGE OF BACKFILL COMPACTION DURING CONSTRUCTION (100psf MAX) AND THEN PINNED CONDITION AFTER SLAB POUR.
- ASSUMED ALLOWABLE SOIL BEARING PRESSURE = 2000 psf
- SAFETY RESTRAINT WILL BE ADDED TO THE TOP OF ANY WALL OVER 30" IN HEIGHT.

**1** RETAINING WALL SCHEDULE  
SCALE: 1/2"=1'-0"

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**S** STABILITY  
ENGINEERING  
1371 Church St., Suite 200, Decatur, GA 30030 P.E.#EC-44372818  
SE #18262



**Key Map** North

REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153

PROJECT MANAGER GGD

**LaGRANGE THREAD  
PHASE 3B  
LaGRANGE, GA**



**RETAINING WALL  
SITE PLAN & DETAILS**

SCALE: as noted

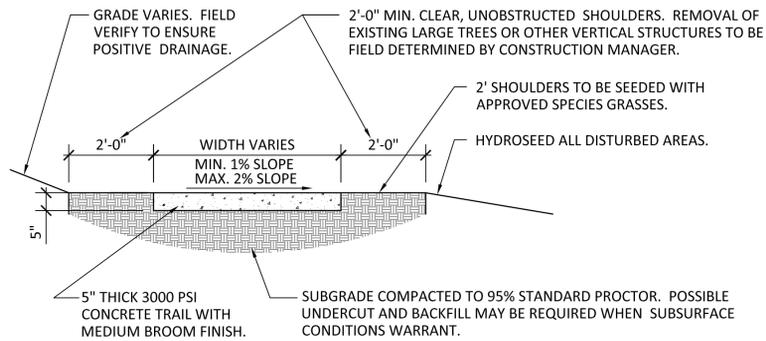
DATE: AUGUST 1, 2018

SHEET NAME: **S-1.0**

**ISSUED FOR CONSTRUCTION**

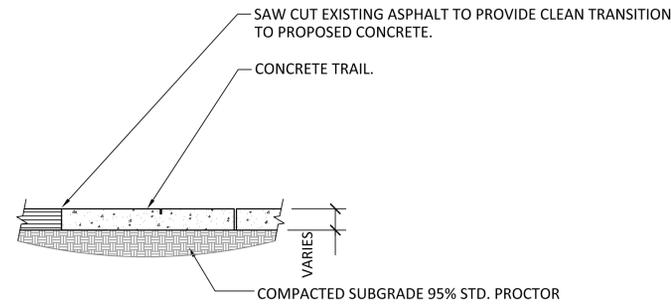


- NOTES:  
 1) 4"x (TRAIL WIDTH) ALTERNATING YELLOW CENTERLINE STRIPING TO BE INSTALLED ALONG ENTIRE LENGTH OF TRAIL CENTERLINE.  
 2) CONTRACTOR TO SAW CUT CONTROL JOINT AT LEAST 1/4 DEPTH OF SLAB ACROSS ENTIRE WIDTH OF TRAIL. CONTROL JOINTS TO BE LOCATED THE SAME DISTANCE APART AS THE WIDTH OF TRAIL (I.E. 12" WIDE TRAIL TO HAVE CONTROL JOINTS EVERY 12" ALONG TRAIL). CONTRACTOR REQUIRED TO REMOVE SAW DUST AFTER CUTTING.  
 3) EXPANSION JOINTS TO BE LOCATED ALONG TRAIL MIN. EVERY 100' IN PLACE OF CONTROL JOINT.



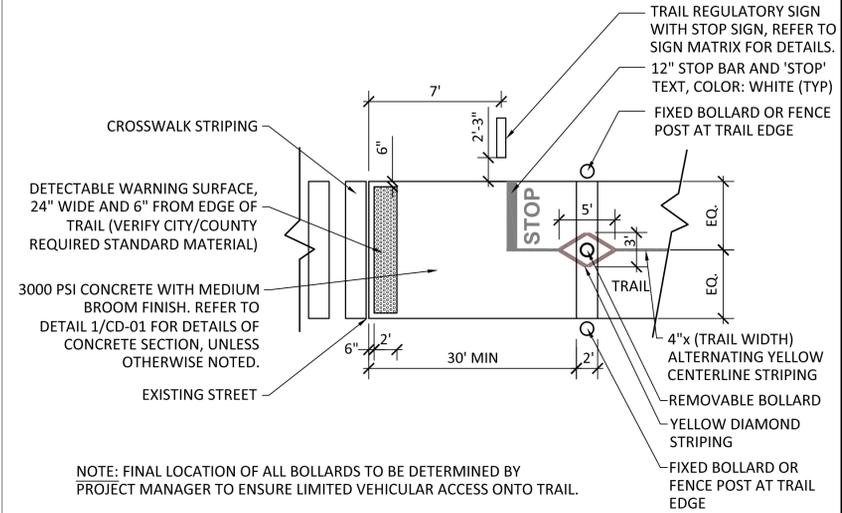
**1 TRAIL CROSS SECTION**

CD-01 SCALE: 1/2" = 1'-0"



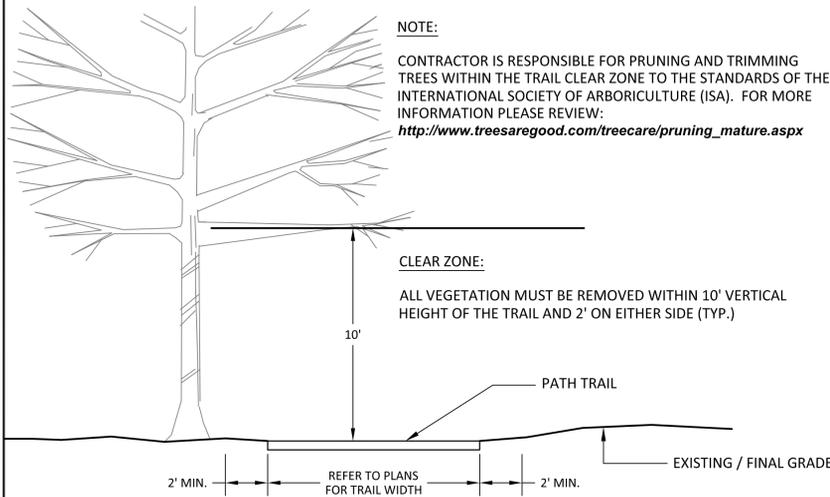
**2 ASPHALT STREET/TRAIL TRANSITION**

CD-01 SCALE: 1/2" = 1'-0"



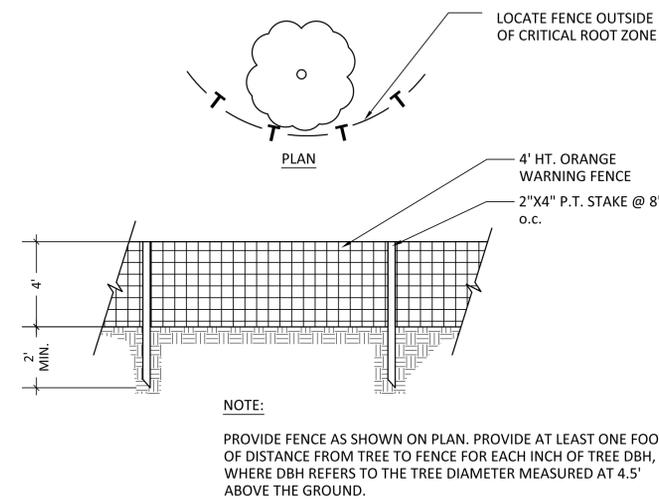
**3 STANDARD INTERSECTION: PLAN VIEW**

CD-01 SCALE: 1/8" = 1'-0"



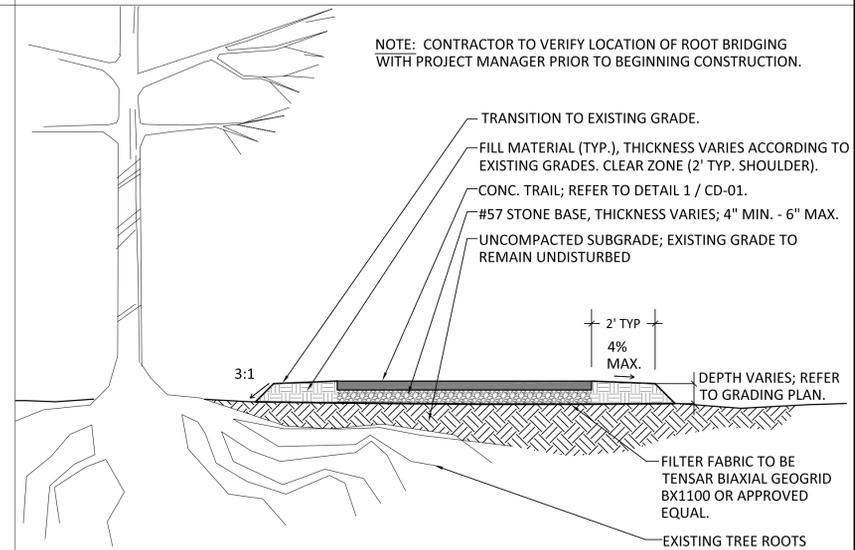
**4 CLEAR ZONE**

CD-01 SCALE: 1/4" = 1'-0"



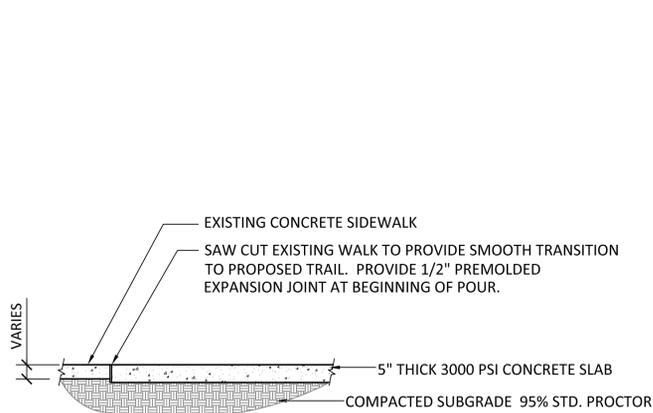
**5 TREE PROTECTION FENCE**

CD-01 SCALE: 1/4" = 1'-0"



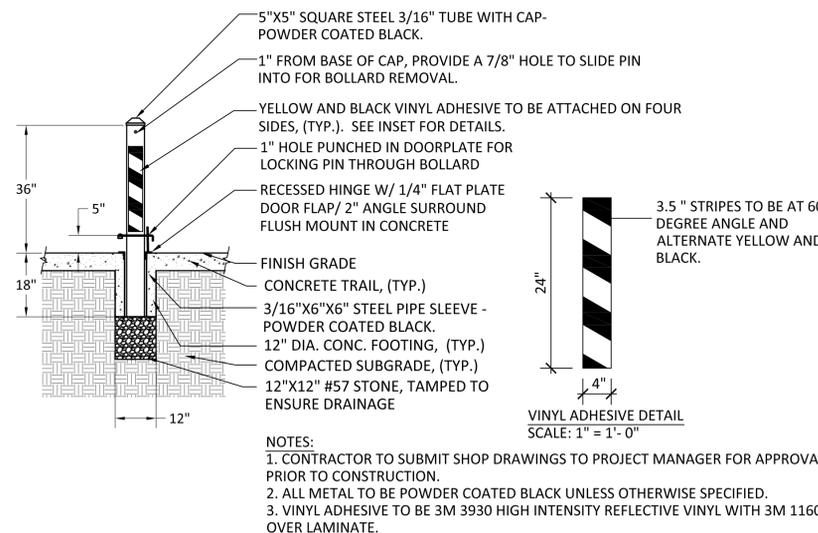
**6 ROOT BRIDGING DETAIL**

CD-01 SCALE: 1/4" = 1'-0"



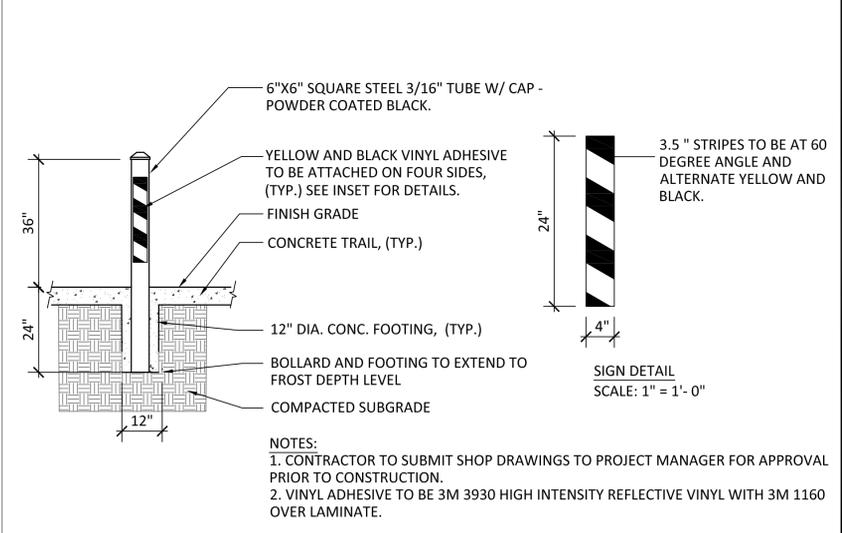
**7 EXISTING WALK/TRAIL TRANSITION**

CD-01 SCALE: 1/2" = 1'-0"



**8 REMOVABLE DOOR PLATE BOLLARD**

CD-01 SCALE: 1/2" = 1'-0"



**9 FIXED STEEL BOLLARD**

CD-01 SCALE: 1/2" = 1'-0"

**KAIZENCOLLABORATIVE**  
 2390 Main Street | Tucker, GA 30084 | 404.239.2521

**GEORGIA & WEST, INC.**  
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 105 CORPORATE DRIVE CARROLLTON, GA 30117 OFFICE (770) 834-4834  
 CARROLLTON, GA 30117 FAX (770) 834-1005  
 E-MAIL: mailbox@georgiawest.com

REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
 PROJECT MANAGER GGD

**LaGRANGE THREAD  
 PHASE 3B  
 LaGRANGE, GA**



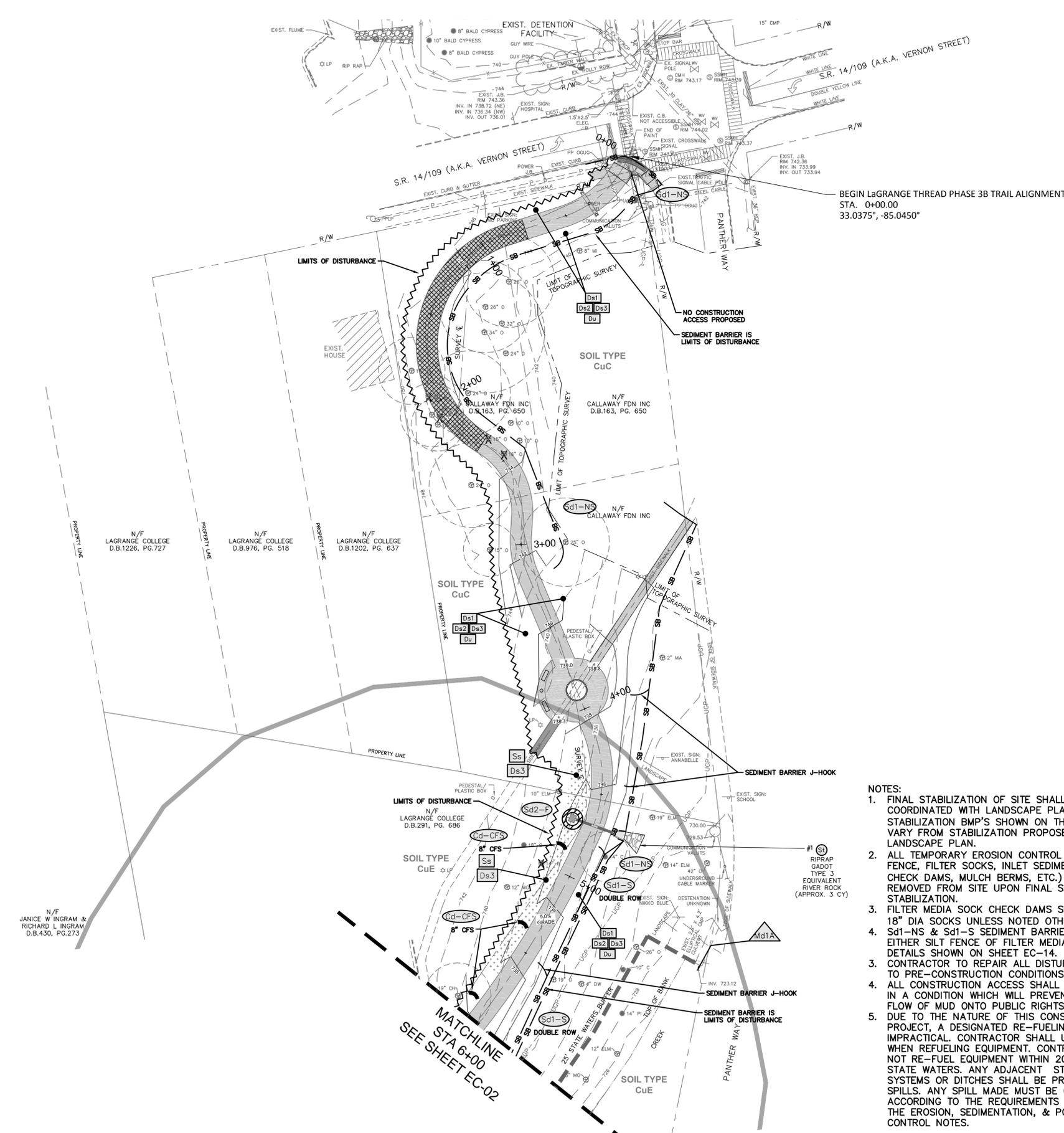
**CONSTRUCTION DETAILS**

SCALE: VARIES  
 DATE: AUGUST 1, 2018  
 SHEET NAME: **CD-01**









NOTE: SEE CONSTRUCTION PLAN SHEETS (CP SERIES) FOR DETAILED STORM DRAINAGE AND PIPING INFORMATION

\*EROSION CONTROL DATA & DETAILS IS CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR REVIEW. THIS SITE IS WITHIN 200' (FEET) OF STATE WATERS TOTAL SITE AREA 1.43 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL) DISTURBED AREA 1.9 ACRES

**EROSION CONTROL NOTES:**

1. EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
2. ALL DISTURBED AREAS TO BE ESTABLISHED TO SUITABLE PERENNIAL VEGETATION, ACCORDING TO USDA SOIL CONSERVATION SERVICE OR GEORGIA EXTENSION SERVICE SPECIFICATIONS, IMMEDIATELY AFTER FINAL GRADING.
3. STREETS, SANITARY SEWERS, AND STORM SEWERS WILL BE INSTALLED AND BARE AREAS STABILIZED BEFORE OTHER AREAS ARE DISTURBED.
4. **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.**
5. EVERY EFFORT SHOULD BE MADE TO CONSERVE AND PROTECT NATURAL VEGETATION.
6. SEDIMENT BARRIERS WILL BE PLACED AT THE TOE OF ALL CUT AND FILL SLOPES AND AROUND ALL DROP INLETS; ALSO BELOW ALL LOT DISTURBANCES WHERE EROSION RUN-OFF MIGHT LEAVE THE SITE.
7. ALL PIPE OUTLETS ARE TO BE COVERED WITH #50 RIPRAP FOR A MINIMUM DISTANCE OF SIX (6) TIMES THE DIAMETER OF THE PIPE. SEE OUTLET PROTECTION TABLE FOR DIMENSIONS OF RIPRAP FOR INDIVIDUAL OUTLETS.
8. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.**
9. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
10. NON-COMPLIANT SITES CAN BE FINED UP TO \$2,500.00 DOLLARS 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 VIOLATION!
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13. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND THE EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE CONTROL MEASURES (BMP'S) WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
14. ANY AMENDMENTS/REVISIONS TO THE EROSION PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
15. **24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:**

NAME: ..... Jonathan McCaig  
TELEPHONE #: 404-433-1900

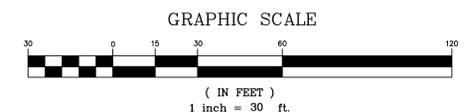
PRIMARY PERMITTEE:  
CITY OF LAGRANGE, TROUP COUNTY,  
GEORGIA  
ATTN: MEG KELSEY  
200 RIDLEY AVENUE  
LAGRANGE, GA 30240  
706-883-2016



**CONSTRUCTION MANAGEMENT**

**PATH FOUNDATION**  
JONATHAN McCAIG - 24 HOUR CONTACT  
GA GSWCC LEVEL 1 CERTIFICATION # 58893  
EXP. 08/21/2018  
office 404-875-7284 x5 cell 404-433-1900

THE F.I.R.M. PANEL 13285C0141E DATE 07/03/2012 INDICATES THIS PROPERTY OR A PORTION IS NOT 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.



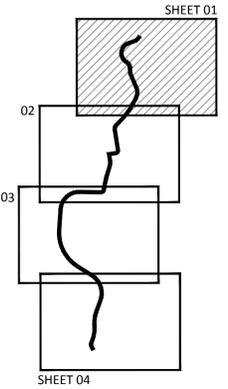
- NOTES:
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  2. ALL TEMPORARY EROSION CONTROL BMP'S (I.E. SILT FENCE, FILTER SOCKS, INLET SEDIMENT TRAPS, CHECK DAMS, MULCH BERMS, ETC.) SHALL BE REMOVED FROM SITE UPON FINAL SITE STABILIZATION.
  3. FILTER MEDIA SOCK CHECK DAMS SHALL BE MIN. 18" DIA SOCKS UNLESS NOTED OTHERWISE
  4. Sd1-NS & Sd1-S SEDIMENT BARRIERS MAY BE EITHER SILT FENCE OF FILTER MEDIA SOCK AS PER DETAILS SHOWN ON SHEET EC-14.
  5. CONTRACTOR TO REPAIR ALL DISTURBED SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
  6. ALL CONSTRUCTION ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. 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.

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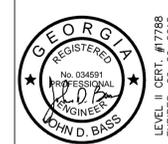


**Key Map** North

REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

**LaGRANGE THREAD  
PHASE 3B  
LaGRANGE, GA**



**EROSION CONTROL PLAN**

SCALE:	1"=30'
DATE:	AUGUST 1, 2018
SHEET NAME:	<b>EC-01</b>

**NOTES:**

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NOTE: SEE CONSTRUCTION PLAN SHEETS (CP SERIES) FOR DETAILED STORM DRAINAGE AND PIPING INFORMATION

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15. 24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:

NAME: Jonathan McCaig  
TELEPHONE #: 404-433-1900

PRIMARY PERMITTEE:  
CITY OF LAGRANGE, TROUP COUNTY,  
GEORGIA  
ATTN: MEG KELSEY  
200 RIDLEY AVENUE  
LAGRANGE, GA 30240  
706-883-2016



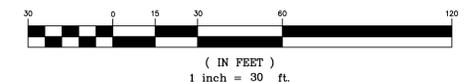
**CONSTRUCTION MANAGEMENT**

PATH FOUNDATION  
JONATHAN McCAIG - 24 HOUR CONTACT  
GA GSWCC LEVEL 1 CERTIFICATION # 58893  
EXP. 08/21/2018  
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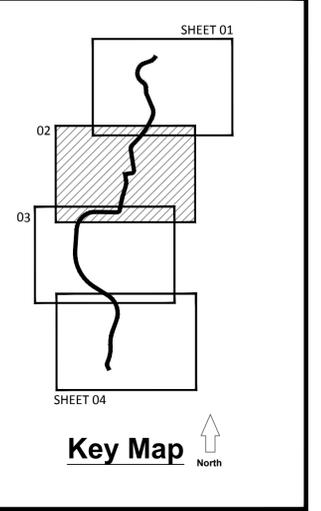


**GRAPHIC SCALE**



**KAIZENCOLLABORATIVE**  
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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

**LaGRANGE THREAD  
PHASE 3B  
LaGRANGE, GA**



**EROSION CONTROL PLAN**

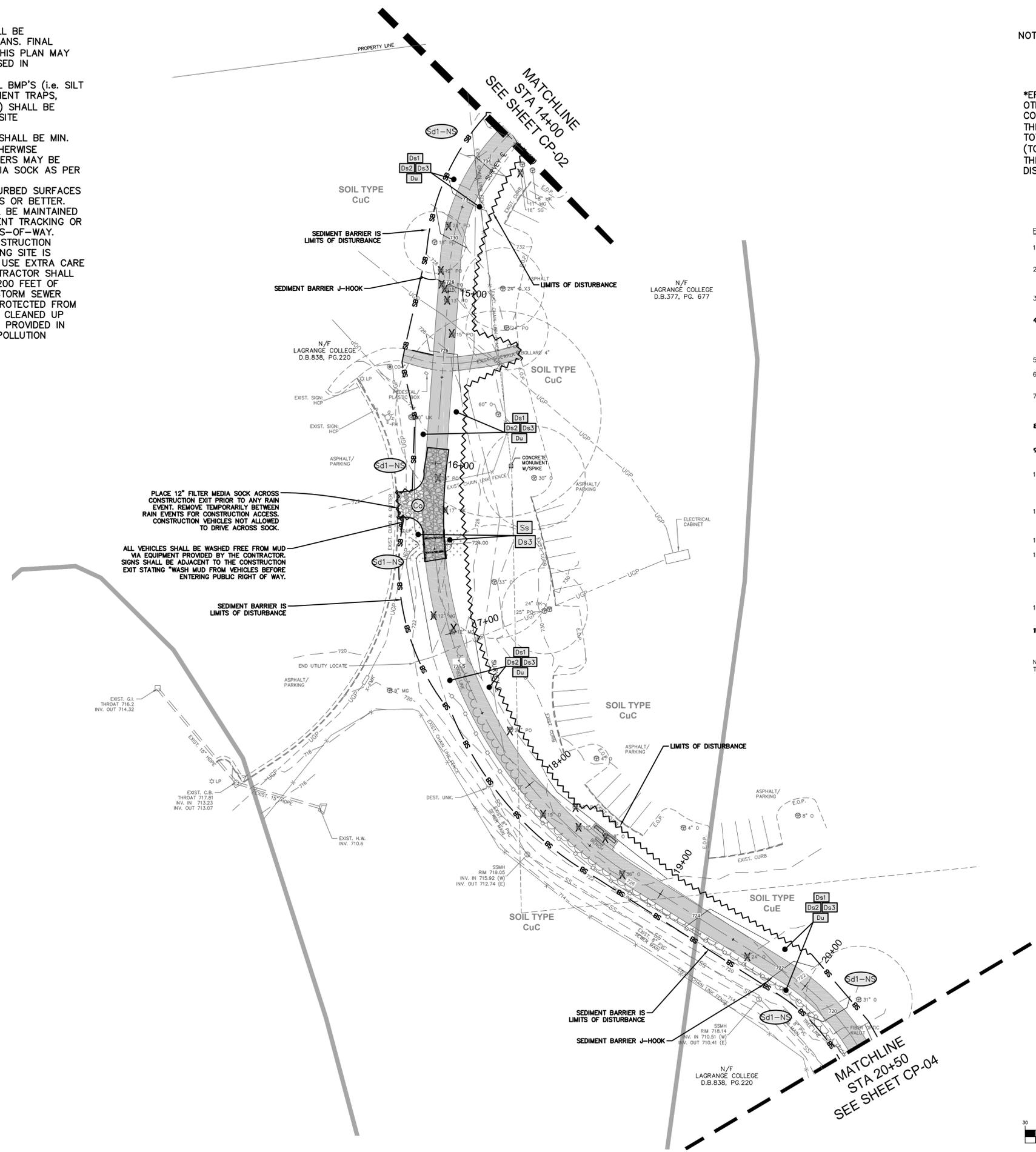
SCALE: 1"=30'  
DATE: AUGUST 1, 2018  
SHEET NAME: **EC-02**

**NOTES:**

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PLACE 12" FILTER MEDIA SOCK ACROSS CONSTRUCTION EXIT PRIOR TO ANY RAIN EVENT. REMOVE TEMPORARILY BETWEEN RAIN EVENTS FOR CONSTRUCTION ACCESS. CONSTRUCTION VEHICLES NOT ALLOWED TO DRIVE ACROSS SOCK.

ALL VEHICLES SHALL BE WASHED FREE FROM MUD VIA EQUIPMENT PROVIDED BY THE CONTRACTOR. SIGNS SHALL BE ADJACENT TO THE CONSTRUCTION EXIT STATING "WASH MUD FROM VEHICLES BEFORE EXITING PUBLIC RIGHT OF WAY."



NOTE: SEE CONSTRUCTION PLAN SHEETS (CP SERIES) FOR DETAILED STORM DRAINAGE AND PIPING INFORMATION

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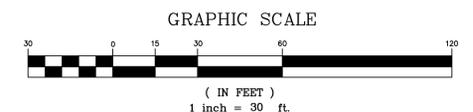
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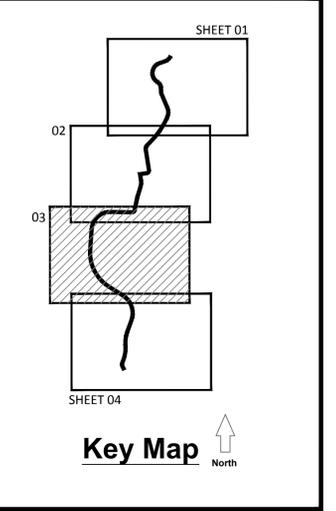
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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

**LaGRANGE THREAD**  
**PHASE 3B**  
**LaGRANGE, GA**



**EROSION CONTROL PLAN**

SCALE: 1"=30'  
DATE: AUGUST 1, 2018  
SHEET NAME: **EC-03**







**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**

CITY OF LaGRANGE, TROUP COUNTY, GEORGIA as Primary Permittee will oversee site construction located within the Property situated in Land lots 115 of District 6, CITY OF LaGRANGE, TROUP COUNTY, GEORGIA. The magnitude of the entire development contains 1.43 acres.

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

Stormwater runoff from this development will be controlled through various best management practices installed as shown on the Erosion Control Plan.

**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: NAVD83 TBM: PK NAIL Elev. 736.69

Flood Insurance Rate Map, Panel 13285C0141E, Dated 07/03/2012, show the site to be in Zone X (no base flood elevations determined).

**Runoff Coefficient**

- \* Weighted pre-construction CN curve number: 65
- \* Weighted post-construction CN curve number: 65

**Soil Types**

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 grubbing
- Excavation of the foundation
- Grading and excavation for utilities
- Preparation for final planting and seeding
- Completion of on-site stabilization

**Sequence of Major Activities**

See Construction Schedule

**Name of Receiving Waters**

TRIBUTARY OF BLUE JOHN CREEK

**CONTROLS**

Erosion and Sediment Controls

All perimeter silt fences and 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 temporary or permanenty cease is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable.

\*Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of the site by the 14th day after construction activity temporarily ceases.

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

**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.

**Waste Materials**

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.

**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 techniques.

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.

**Sanitary Wastes**

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 skirt 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 Municipal Authority 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.

**Offsite Vehicle Tracking**

A stabilized construction exit has been provided to help reduce vehicle tracking of sediment. See SErosion Control Plan Sheets 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**

- Quantities of products stored onsite will be limited to the amount needed for the job.
- Products and materials will be stored in a neat, orderly manner in appropriate containers protected from rainfall, where possible.
- Products will be kept in their original containers with manufacturer labels legible and visible.
- Product mixing, disposal and disposal of product containers will be according to the manufacturer's recommendations.
- 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, sodalust, 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 1-800-426-2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- 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

- 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; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each twenty-four hour period at the site. These inspections must be conducted until a Notice of Termination is submitted.
- Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; 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, the permittee must comply with Part IV.D.4.a.(3). These inspections must be conducted until a Notice of Termination is submitted.
- 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 received by EPD) the areas of the site that have undergone final stabilization. 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).
- 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.
- A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, 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.(4) 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 project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of noncompliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.C. of this permit.

Daily, weekly, monthly and storm event inspection reports shall be prepared and maintained in accordance with the applicable NPDES permit.

\*\*A COPY OF THE REPORT(S) SHALL BE SENT TO THE OWNER/DEVELOPER, EPD AS REQUIRED BY THE PERMIT AND THE PROJECT INSPECTOR.\*\*

**MAINTENANCE & INSPECTION OF EROSION & SEDIMENTATION CONTROLS**

**Maintenance**

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

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 seeding growth.

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 grade. 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, at least 70% of the soil surface is uniformly covered in permanent vegetation or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; 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. 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.

**STORMWATER SAMPLING**

**SAMPLE ANALYSIS**

Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001".

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from this development where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the downstream sampling location exceed and increase of 25 N.T.U. from the upstream sampling location.

**Sample Type**

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 EPD.

Per NPDES Permit, GAR 100002, "Sample containers should be labeled prior to collecting the samples. Samples should be well mixed before transferring to a secondary container. 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. Manual, automatic or rising stage sampling may be utilized.

**Sampling Points**

There will be 2 storm water sampling location numbered MdlA and MdlB. Sampling location number MdlA will be upstream sampling location. Sampling location number MdlB will be downstream location. See Erosion Control Plan sheets for exact locations. Per NPDES Permit GAR 100002, for construction activities, the Primary Permittee must complete all sampling.

Appendix B was used to determine the NTU units allowable and upstream and downstream sampling will be performed for this project.

- 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.

**Sampling Frequency**

Storm water samples shall be taken for the following storm events:

- For each area of the site that discharges to a receiving stream, the first rain event that reached or exceeds 0.5 inch and allows for monitoring during normal business hours (Monday through Friday, 8:00 AM to 5:00 PM and Saturday 8:00 AM to 5:00 PM 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 sampling location;
- In addition to (a) above, 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 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 sampling location, whichever comes first;
- At the times 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 any 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 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.

**Reporting**

A monthly summary of the monitoring results shall be sent to CITY OF LaGRANGE, TROUP COUNTY, GEORGIA and Georgia Environmental Protection Division by the 15th of each month. This report summary shall include:

- The name, exact place, and time of sampling or measurements;
- The name(s) of the individual(s) 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 assurance 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.

If no qualifying events occurred within a monthly monitoring period, a report must be submitted stating such. Addresses are provided below.

**Governing Agency:**

Georgia Environmental Protection Division West Central District Office  
2640 Shuring Drive  
Macon, GA 31211-3576  
(478) 751-6612

ATTN: CITY OF LaGRANGE, TROUP COUNTY, GEORGIA ATTN: Inspector \_\_\_\_\_  
MEG KELSEY \_\_\_\_\_  
200 RIDLEY AVENUE \_\_\_\_\_  
LaGRANGE, GA 30240 \_\_\_\_\_  
706-883-2016 \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_

**COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS**

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 having 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.

**CERTIFICATION**

"I certify that the Permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and 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."

*John D. Bass* AUGUST 1, 2018  
JOHN D. BASS, PE GA NO. 34591 DATE \_\_\_\_\_  
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. #17788

\*\*\*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 WITHIN 7 DAYS AFTER INSTALLATION. CONTRACTOR MUST CONTACT DESIGN PROFESSIONAL IMMEDIATELY ONCE BMP'S ARE INSTALLED.\*\*\*

**DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION**

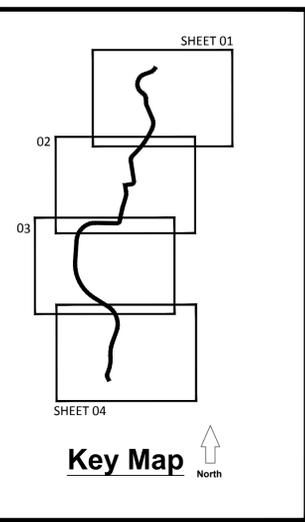
DATE OF INSPECTION \_\_\_\_\_  
I Certify the site was / was not in compliance with the ES&PC Plan on the date of inspection.

JOHN D. BASS, PE GA NO. 34591 \_\_\_\_\_  
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. #17788

Inspection revealed the following discrepancies from the ES&PC Plan.

These deficiencies must be addressed immediately and a re-inspection scheduled. Work shall not proceed on the site until Design Professional Certification is obtained.

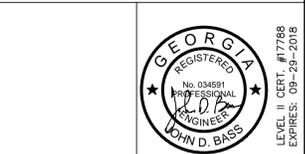
**KAIZENCOLLABORATIVE**  
2390 Main Street | Tucker, GA 30084 | 404.239.2521  
**GEORGIA & WEST, INC.**  
ENGINEERING • LAND SURVEYING • LAND PLANNING  
106 CORPORATE DRIVE OFFICE (770) 834-4684  
CARRLTON, GA 30117 FAX (770) 834-1005  
E-MAIL: mailto:kaizen@georgiandwest.com



REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2018 - 153  
PROJECT MANAGER GGD

**LaGRANGE THREAD**  
**PHASE 3B**  
**LaGRANGE, GA**



**EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES**

SCALE:	N.T.S.
DATE:	AUGUST 1, 2018
SHEET NAME:	<b>EC-07</b>

