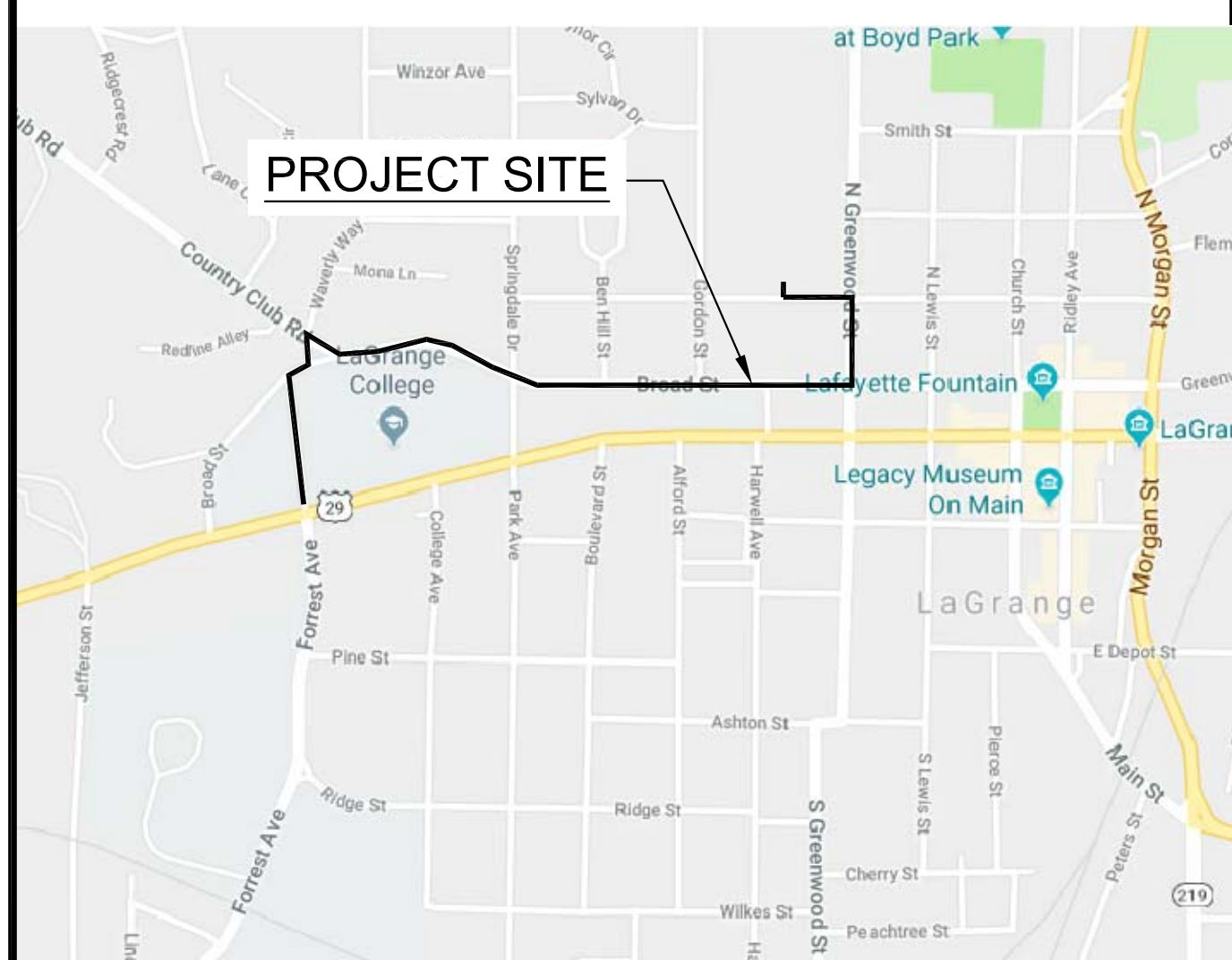


LAGRANGE THREAD PHASE 3

CITY OF LaGRANGE, GEORGIA



VICINITY MAP
N.T.S.

LAND LOT: 109, 110, 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

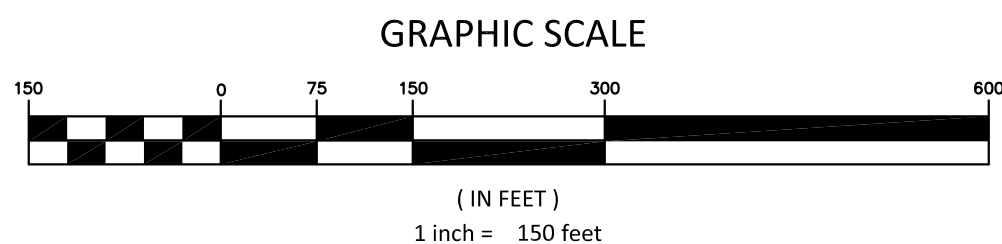
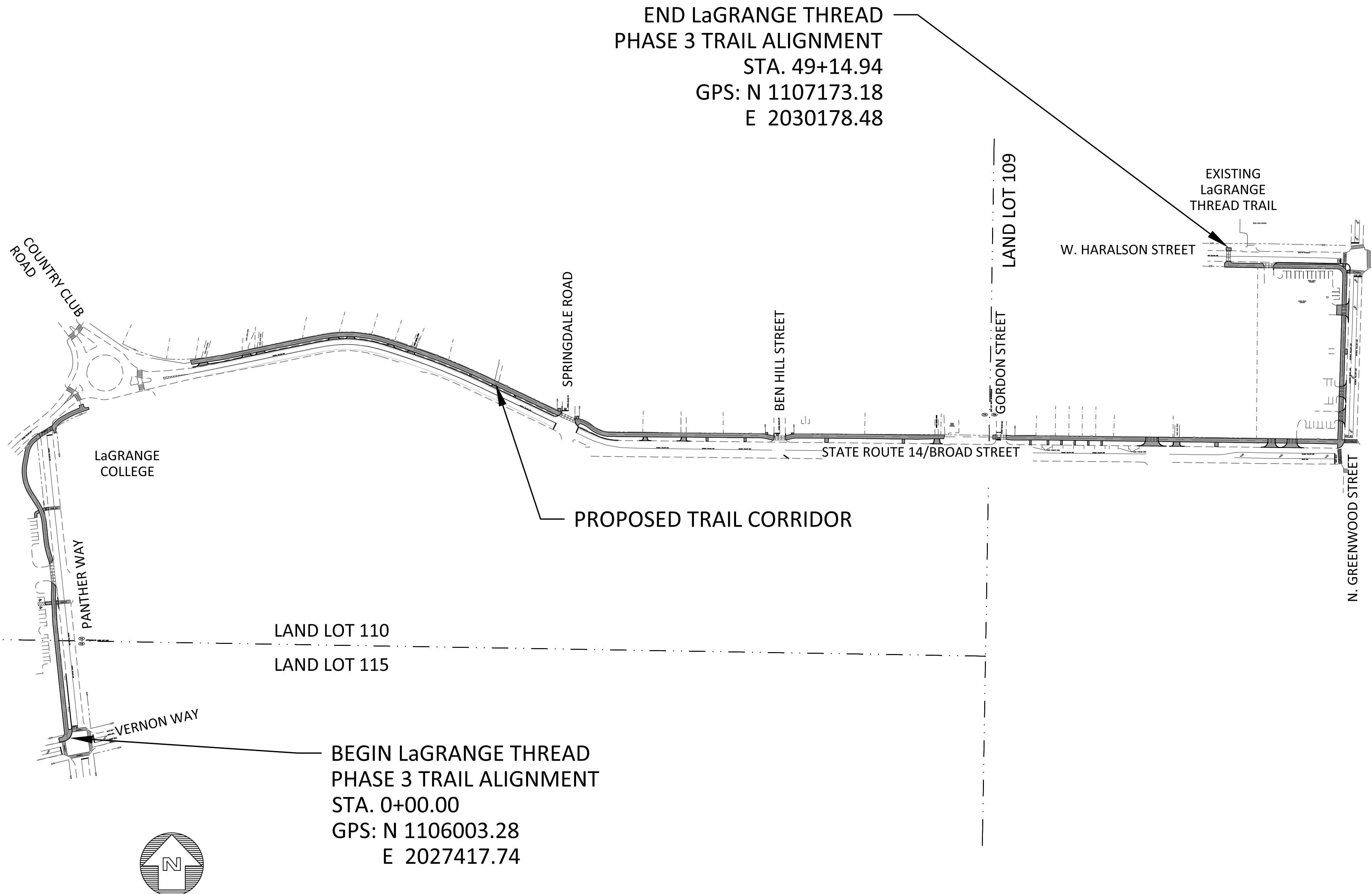
SURVEY AND COORDINATE DATA
HORIZ. DATUM - GA. STATE PLANE COORDINATE SYSTEM
VERT. DATUM - NAVD 1988
COORDINATE ZONE - GEORGIA WEST
PROJECT UNITS - ENGLISH

PROJECT DESCRIPTION
THE PROJECT FALLS WITHIN LAND LOTS 109, 110, & 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 2.0 ACRES. NO DISTURBANCE IS PROPOSED WITHIN THE STATE 25' STREAM BUFFER SETBACK.

NARRATIVE
THIS PROJECT IS A LINEAR SIDE PATH TRAIL BEGINNING AT THE NORTHWEST CORNER OF VERNON WAY AND PANTHER WAY, ALIGNING THROUGH CITY EASEMENT AND CITY OWNED PROPERTY, FOLLOWING THE RIGHT OF WAY AND CITY EASEMENT ALONG BROAD STREET AND N. GREENWOOD ST, AND ENDS AT THE NORTH SIDE OF W. HARALSON STREET AT THE EXISTING LAGRANGE THREAD TRAIL.
THE PROJECT LENGTH IS APPROXIMATELY 4915 LF OF CONCRETE TRAIL. 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



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: **MARCH 22, 2018**

GROSS LENGTH OF PROJECT **4915 LF**

TOTAL SITE AREA = 2.83 ACRES
DISTURBED AREA = 2.0 ACRES

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

DEMOLITION PLANS

DP-01 DEMOLITION PLAN
DP-02 DEMOLITION PLAN
DP-03 DEMOLITION PLAN
DP-04 DEMOLITION PLAN
DP-05 DEMOLITION PLAN
DP-06 DEMOLITION PLAN

TYPICAL SECTIONS

TS-01 TYPICAL SECTIONS
TS-02 TYPICAL SECTIONS

CONSTRUCTION PLANS

CP-01 CONSTRUCTION PLAN
CP-02 CONSTRUCTION PLAN
CP-03 CONSTRUCTION PLAN
CP-04 CONSTRUCTION PLAN
CP-05 CONSTRUCTION PLAN
CP-06 CONSTRUCTION PLAN

SIGNING AND MARKING PLANS

SM-01 SIGNING AND MARKING PLAN
SM-02 SIGNING AND MARKING PLAN
SM-03 SIGNING AND MARKING PLAN
SM-04 SIGNING AND MARKING PLAN
SM-05 SIGNING AND MARKING PLAN
SM-06 SIGNING AND MARKING PLAN
SM-07 SIGN MATRIX

LANDSCAPE PLANS

LP-01 LANDSCAPE PLAN
LP-02 LANDSCAPE PLAN
LP-03 LANDSCAPE PLAN
LP-04 LANDSCAPE PLAN
LP-05 LANDSCAPE PLAN
LP-06 LANDSCAPE PLAN
LD-01 LANDSCAPE DETAILS

CONSTRUCTION DETAILS

CD-01 CONSTRUCTION DETAILS
CD-02 CONSTRUCTION DETAILS
CD-03 CONSTRUCTION DETAILS
CD-04 CONSTRUCTION DETAILS
CD-05 CONSTRUCTION DETAILS

EROSION CONTROL

EC-01 EROSION CONTROL PLAN
EC-02 EROSION CONTROL PLAN
EC-03 EROSION CONTROL PLAN
EC-04 EROSION CONTROL PLAN
EC-05 EROSION CONTROL PLAN
EC-06 EROSION CONTROL PLAN
EC-07 EROSION CONTROL DATA
EC-08 EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES
EC-09 EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES
EC-10 EROSION CONTROL DETAILS

PLANS PREPARED BY:

KAIZENCOLLABORATIVE

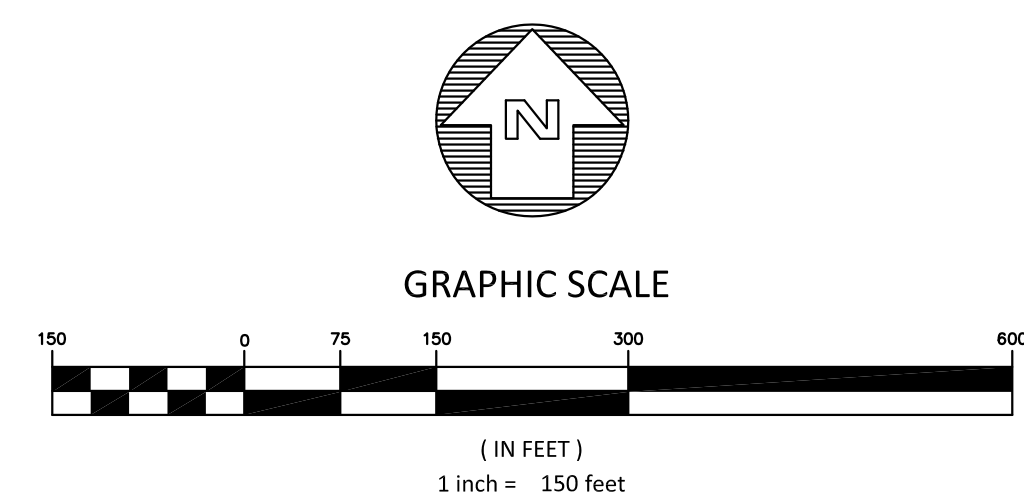
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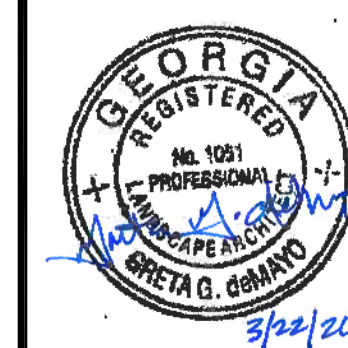
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& WEST, INC.**
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[illegible]

KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

LaGRANGE THREAD
PHASE 3
LaGRANGE, GA



COMPOSITE MAP

SCALE:	1"=150'
DATE:	MARCH 22, 2018
SHEET NAME:	CM-01

THE F.I.R.M. PANEL 13285C0141E DATE 09/19/2007 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.



Know what's below.
Call before you dig.

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

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

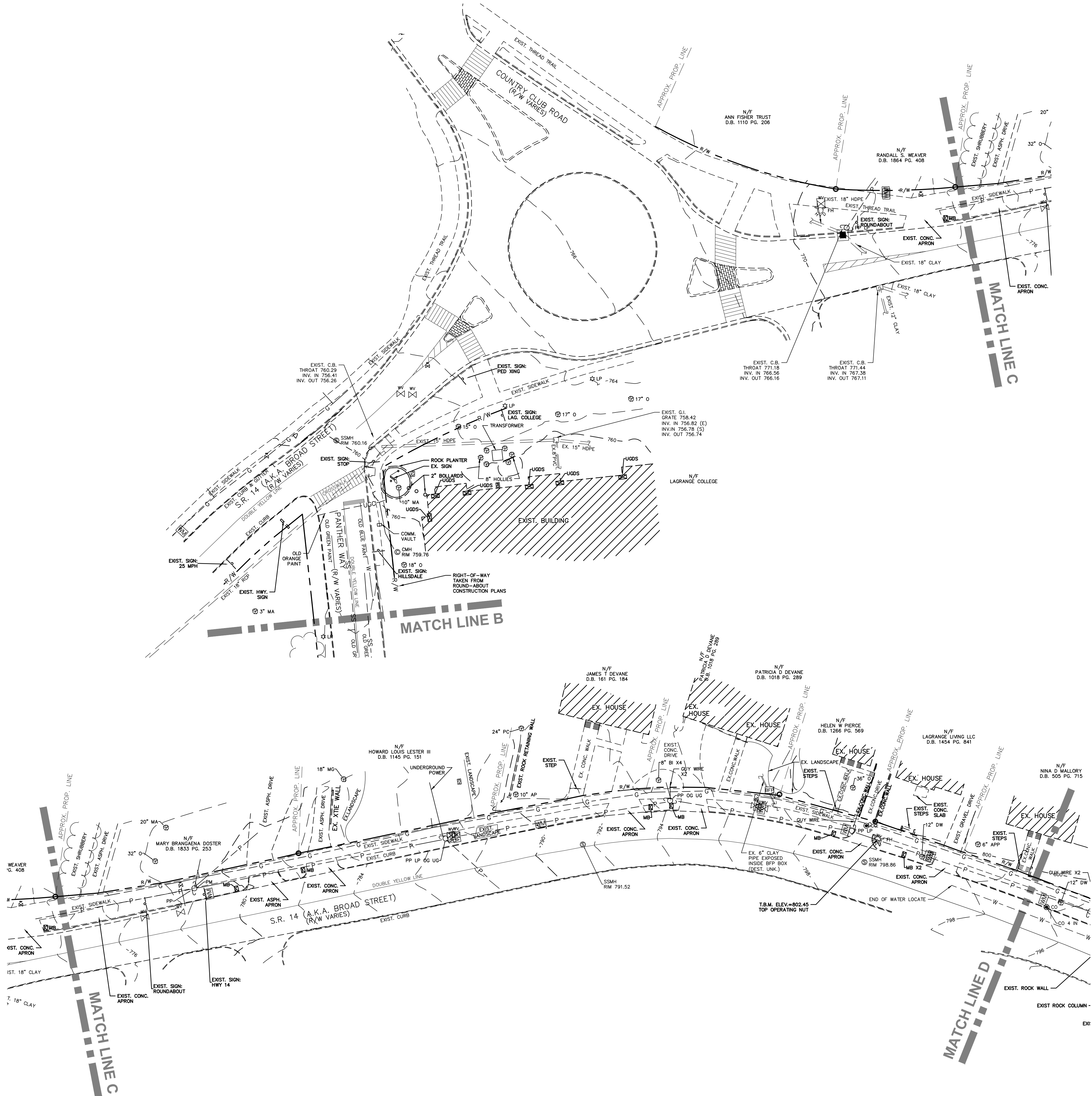
TREE LEGEND					
MA=maple	O=oak	WA=walnut	SG=sweetgum	CH=cherry	HK=hickory
PC=pecan	MI=mimosa	BH=beech	PI=pine	PO=poplar	SW=sourwood
GI=ginkgo	SM=sycamore	BE=boxelder	C=cedar	HB=hackberry	CW=cottonwood
UK=unk hardwood	DW=dogwood	PE=pear	BI=birch	MG=magnolia	BG=black gum

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

GRID CA-W



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WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.

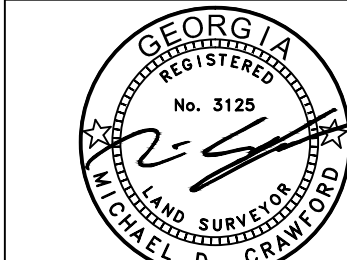
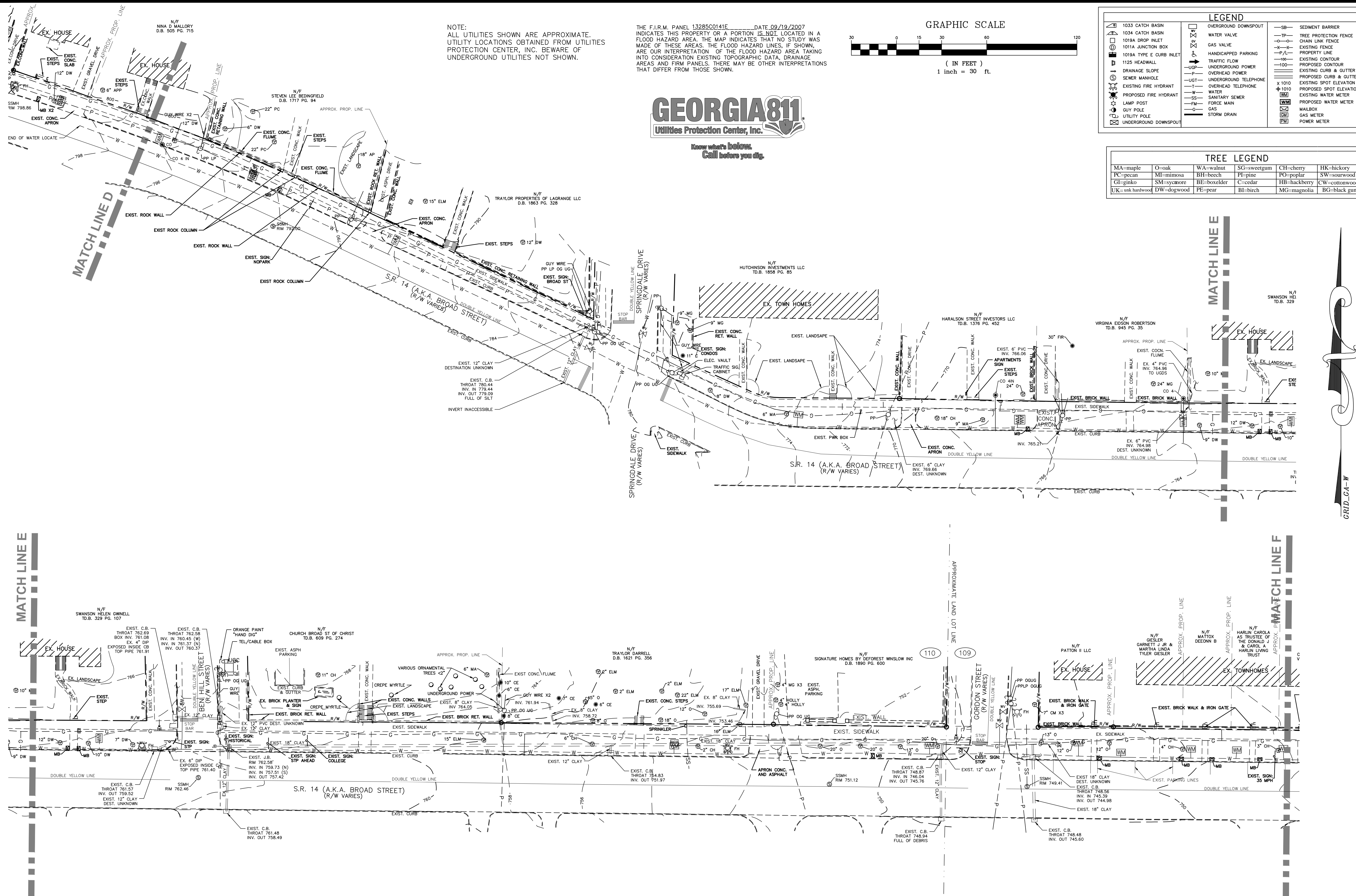
WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.

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 3
LOCATED IN LAND LOTS 109, 110 & 115 DISTRICT 6
TROUP COUNTY, GEORGIA

DATE: 01-24-2018
JOB NUMBER: 171212
DESIGNED BY: JDS

S-02



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TITLE:
TOPOGRAPHIC SURVEY
LAGRANGE THREAD PHASE 3
LOCATED IN LAND LOTS 109, 110 & 115 DISTRICT 6
TROUP COUNTY, GEORGIA
DATE: 01-24-2018
JOB NUMBER: 171212
DESIGNED BY: CDB

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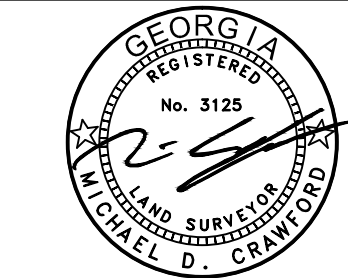
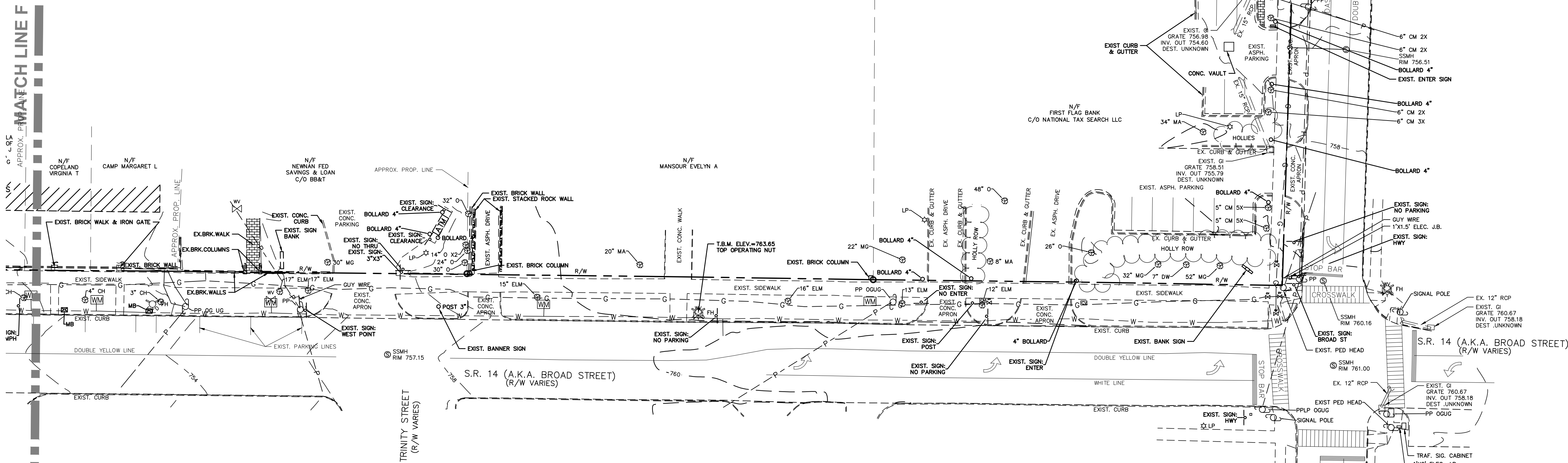
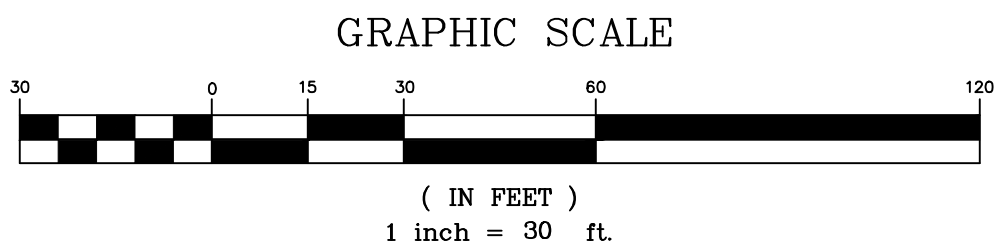


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NOTE:
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PROTECTION CENTER, INC. BEWARE OF
UNDERGROUND UTILITIES NOT SHOWN.

LEGEND			
1033 CATCH BASIN	OVERGROUND DOWNSPOUT	SEDIMENT BARRIER	
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1019A DROP INLET	GAS VALVE	CHAIN LINK FENCE	
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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	EXISTING WATER METER	
GUY POLE	FORCE MAIN	PROPOSED WATER METER	
UTILITY POLE	GAS	MAILBOX	
UNDERGROUND DOWNSPOUT	STORM DRAIN	GAS METER	
		POWER METER	

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=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



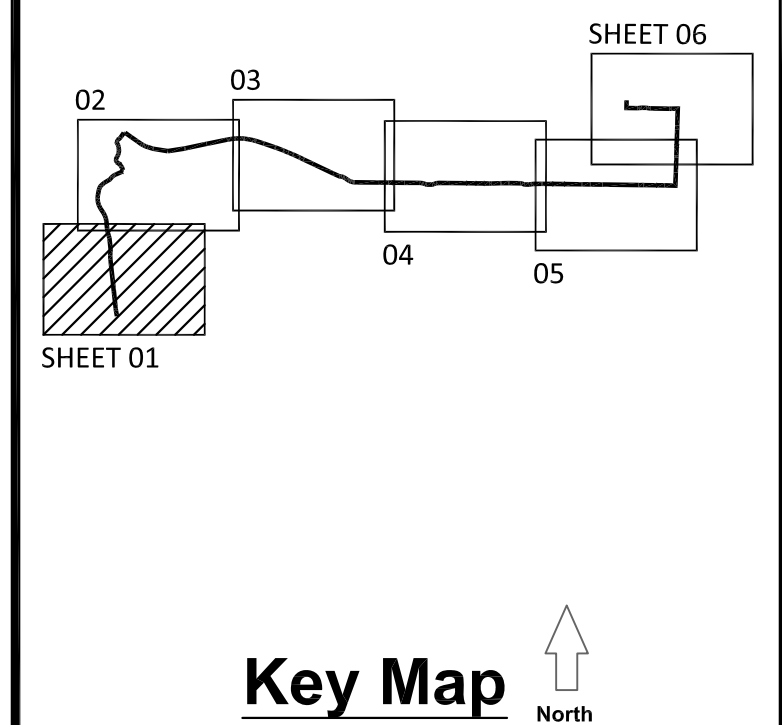
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TITLE:
TOPOGRAPHIC SURVEY
LAGRANGE THREAD PHASE 3
LOCATED IN LAND LOTS 109, 110 & 115 DISTRICT 6
TROUP COUNTY, GEORGIA

S-04

1. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A STATE APPROVED LANDFILL.
2. EXISTING STRIPING TO BE REMOVED BY HYDROBLASTING.

[illegible]

KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

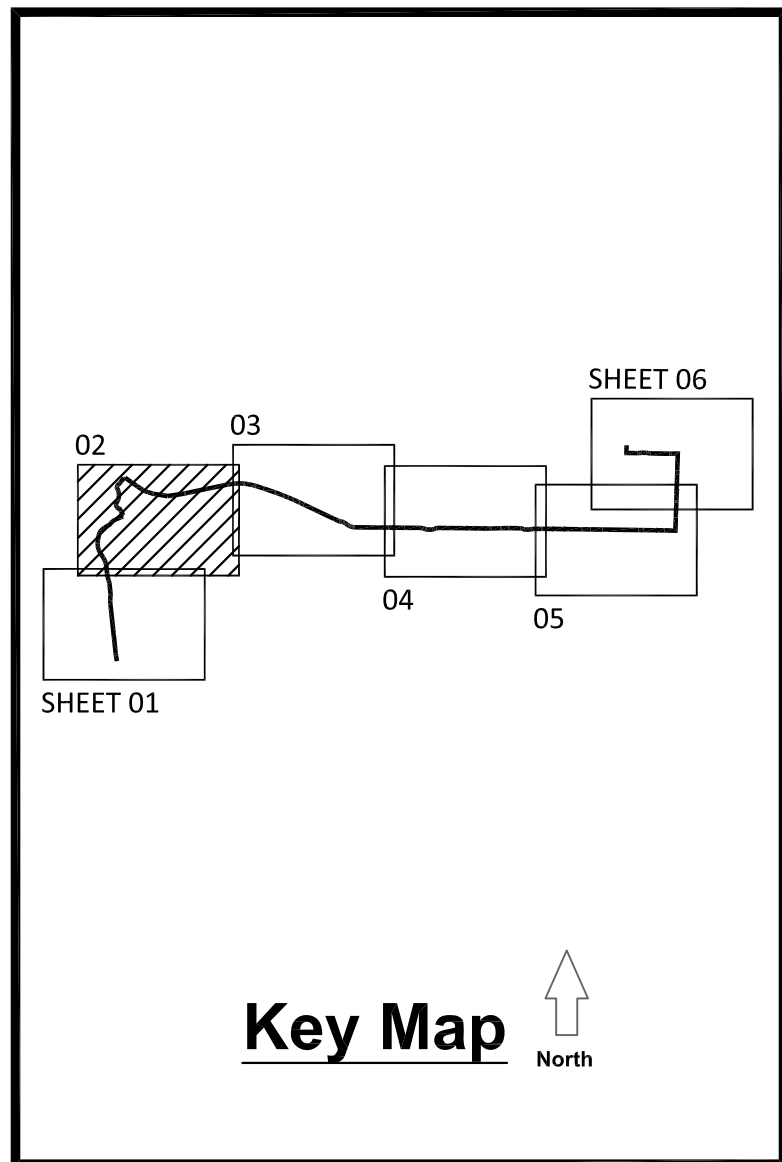
**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**



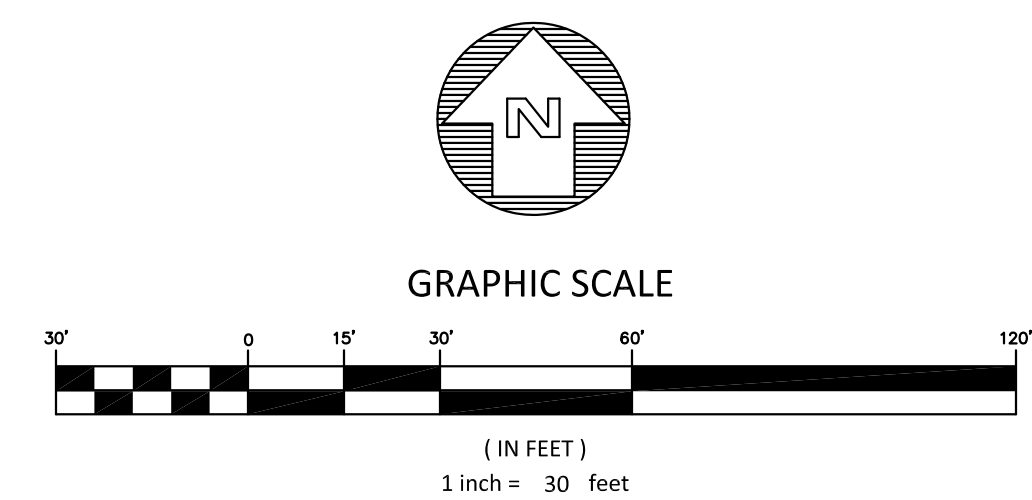
DEMOLITION PLAN

SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	DP-01

1. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A STATE APPROVED LANDFILL.
2. EXISTING STRIPING TO BE REMOVED BY HYDROBLASTING.

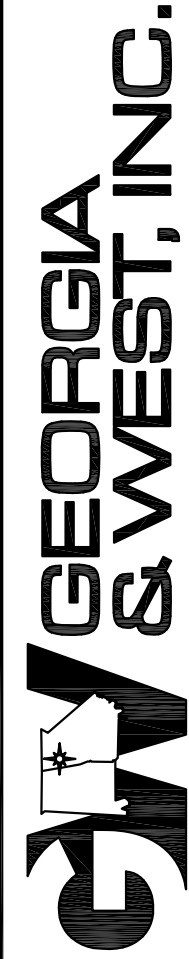
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KAIZEN COLLABORATIVE

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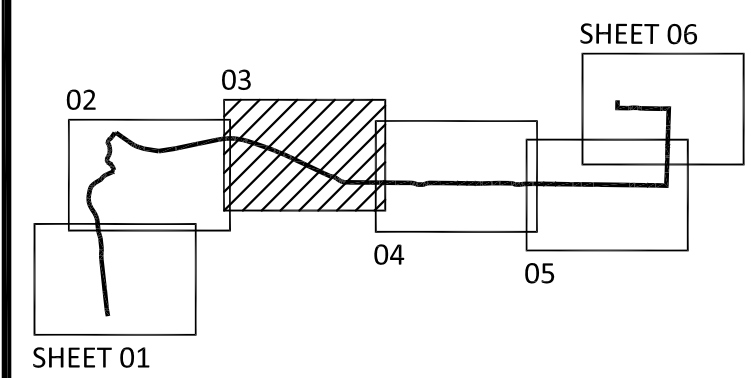


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Key Map

[illegible]

KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**

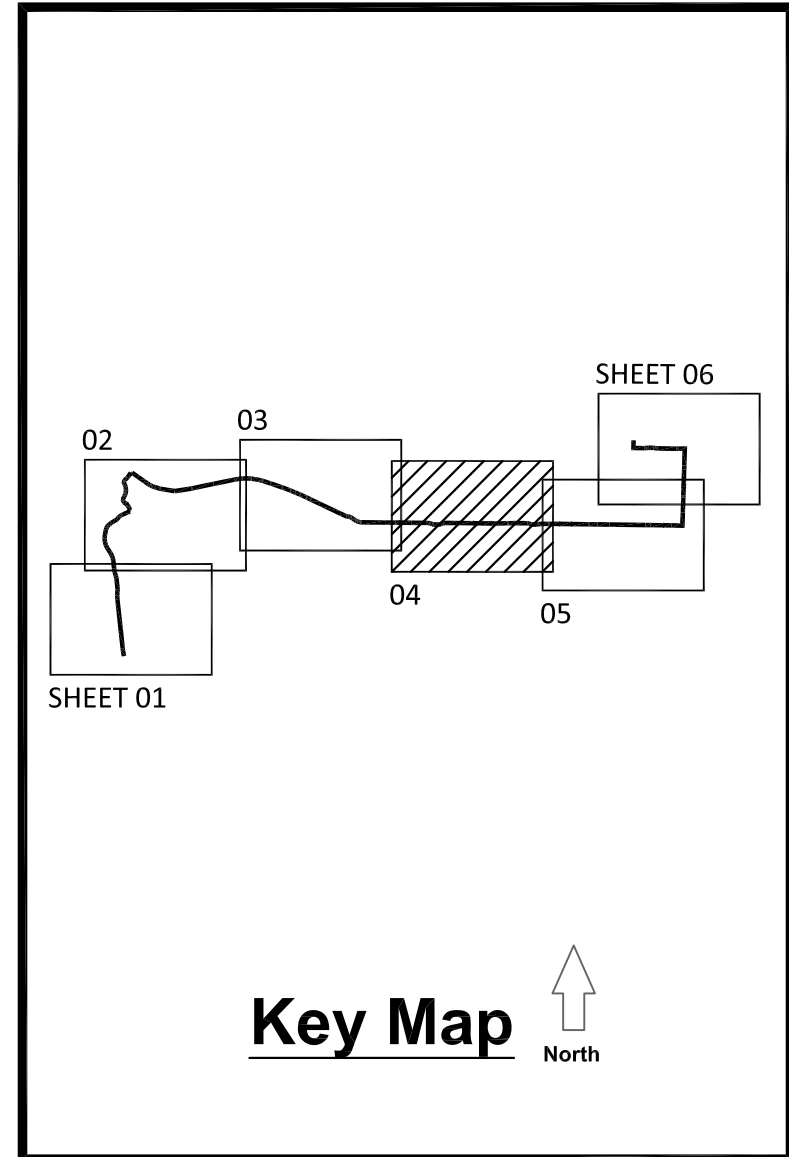


DEMOLITION PLAN

SCALE:	1"=30'
DATE:	MARCH 22, 2018

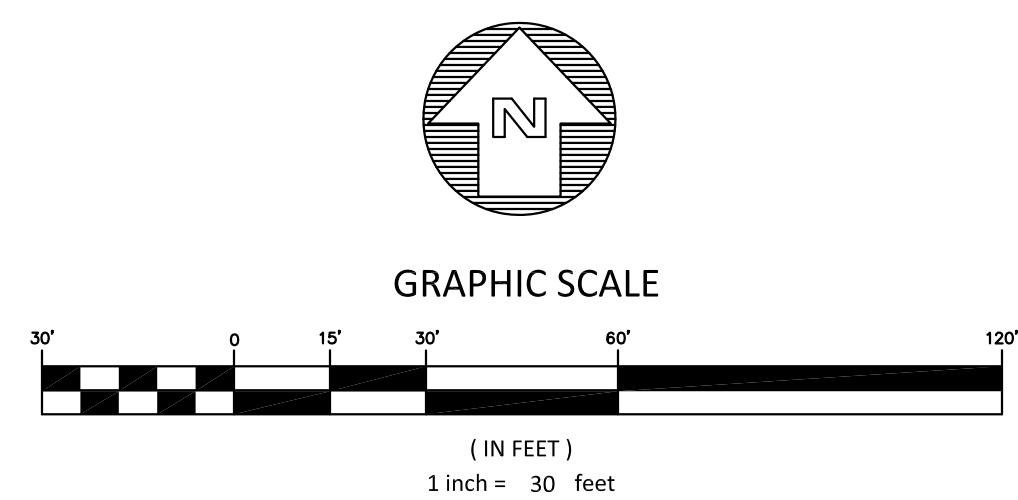
SHEET NAME:	DP-03
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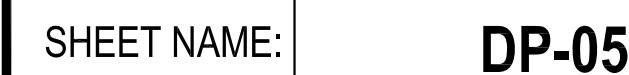


REVISION	DATE	DESCRIPTION
KAIZEN PROJECT #	2017 - 136	
PROJECT MANAGER	GGD	
<div>LaGRANGE THREAD PHASE 3 LaGRANGE, GA</div>		
		
<div>DEMOLITION PLAN</div>		
SCALE:	1"=30'	
DATE:	MARCH 22, 2018	
SHEET NAME:	DP-04	

2. EXISTING STRIPING TO BE REMOVED BY HYDROBLASTING



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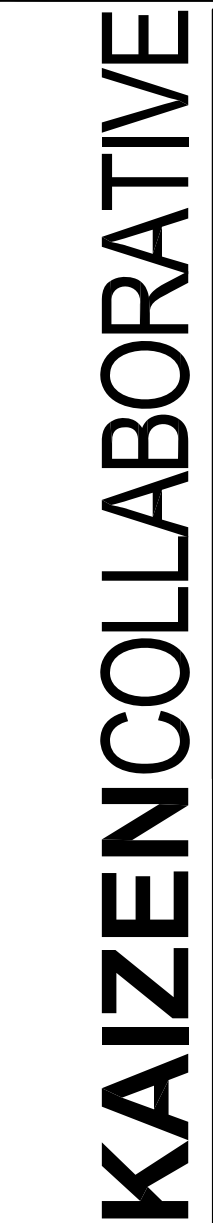
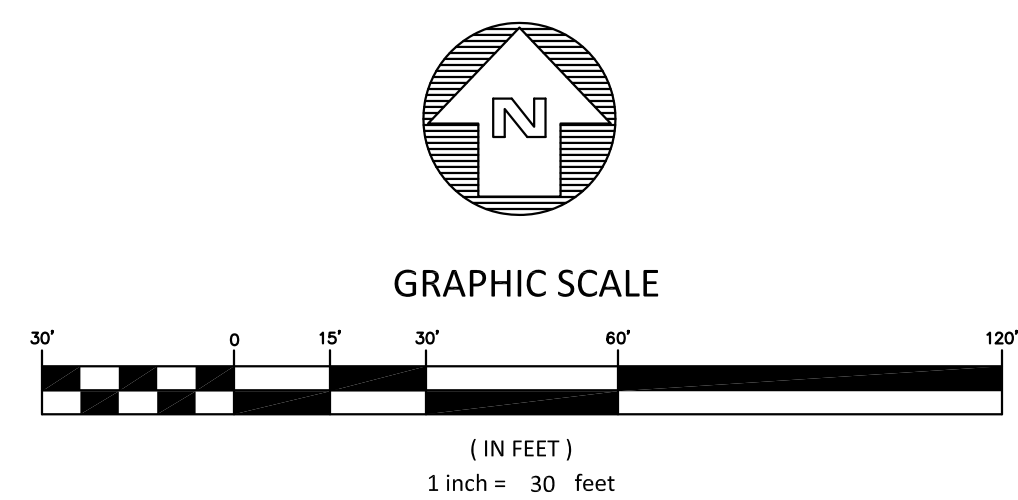
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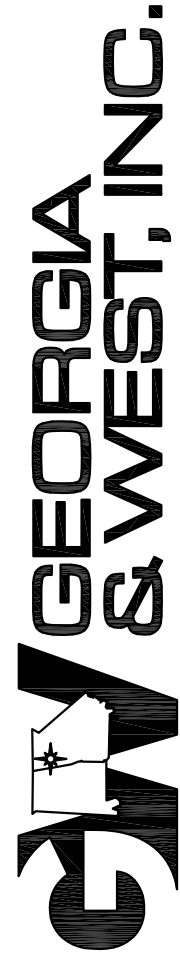
EXISTING ASPHALT TO BE SAW CUT & REMOVED

EXISTING CONCRETE TO BE SAW CUT & REMOVED

EXISTING CURB & GUTTER TO BE REMOVED



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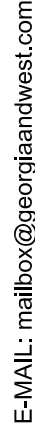


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KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

LaGRANGE THREAD
PHASE 3
LaGRANGE, GA



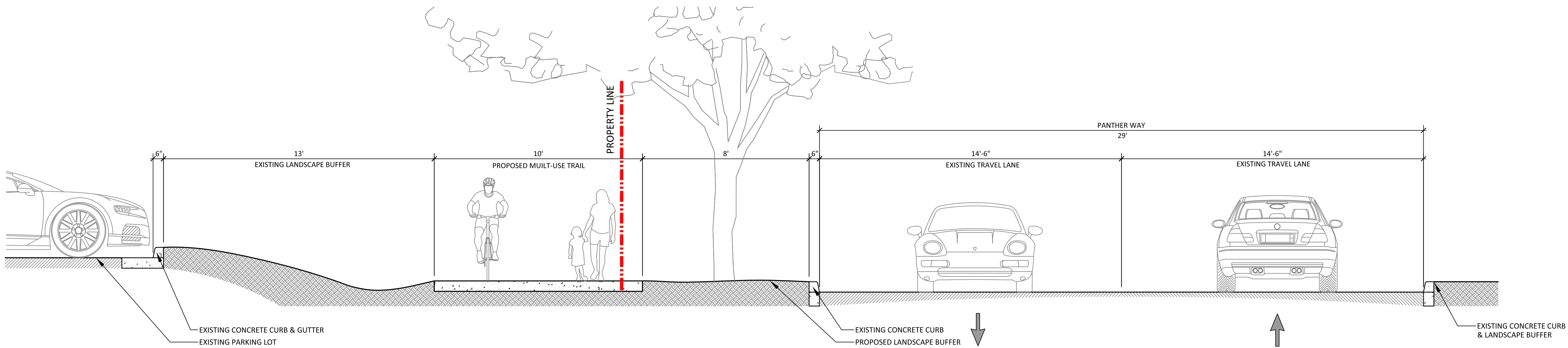
DEMOLITION PLAN

SCALE: 1"=30'

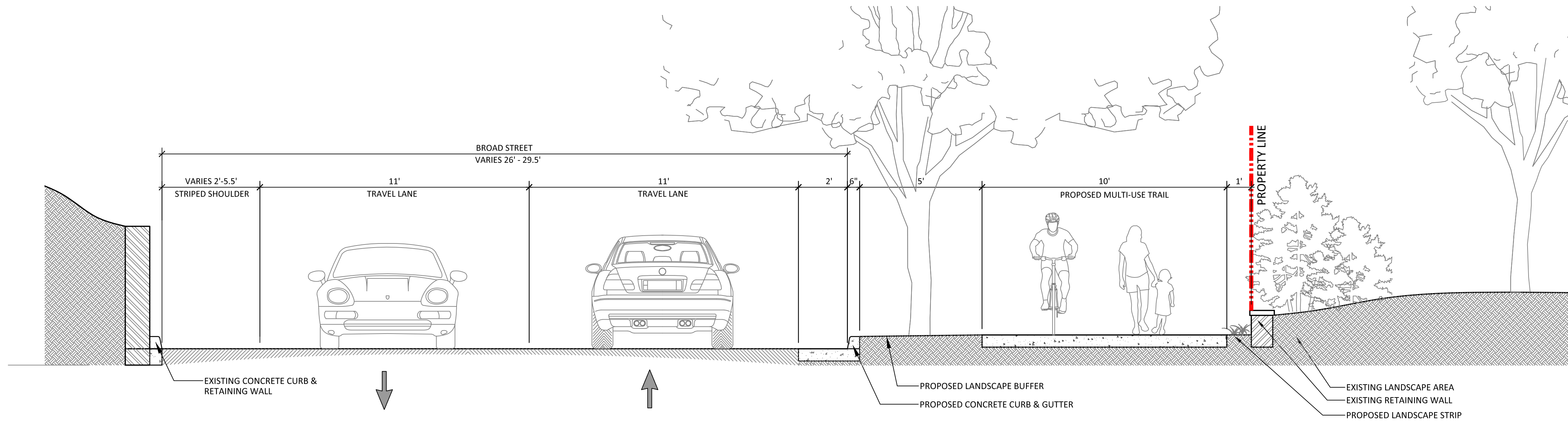
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SHEET NAME:

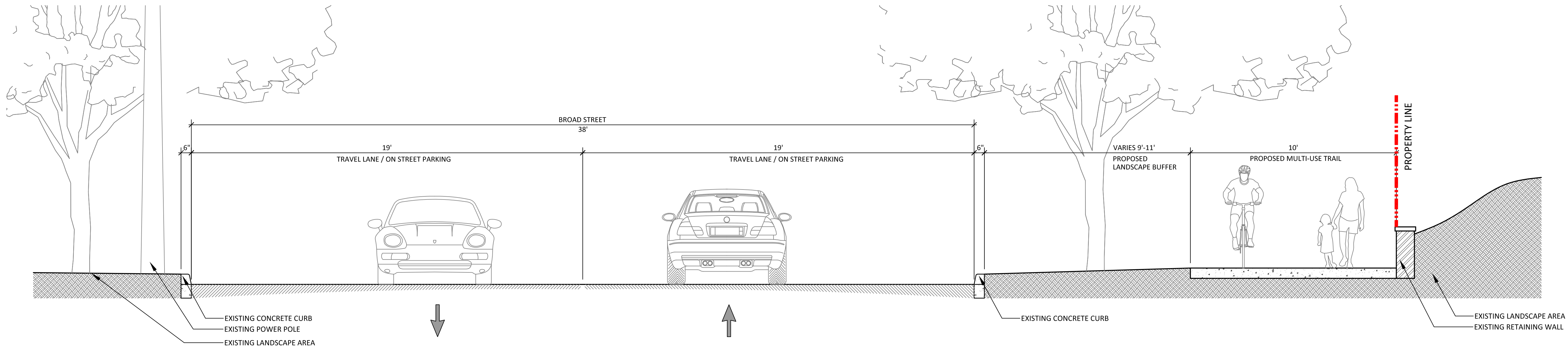
DP-06



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



02
TS-01 TRAIL TYPICAL SECTION
SCALE: 3/8" = 1'0"



03
TS-01 TRAIL TYPICAL SECTION
SCALE: 3/8" = 1'0"

KAIZENCOLLABORATIVE

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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2017 - 136

PROJECT MANAGER GGD

**LaGRANGE THREAD
PHASE 3**

LaGRANGE, GA

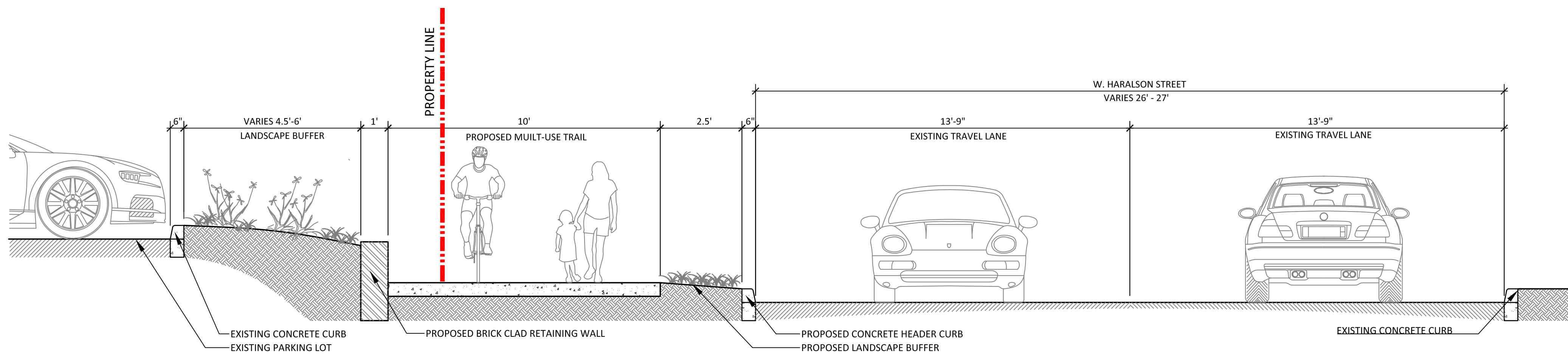


TYPICAL SECTIONS

SCALE: 3/8" = 1'

DATE: MARCH 22, 2018

SHEET NAME: **TS-01**



01 TRAIL TYPICAL SECTION
TS-02 SCALE: 3/8" = 1'0"

KAIZENCOLLABORATIVE

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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2017 - 136
PROJECT MANAGER GGD

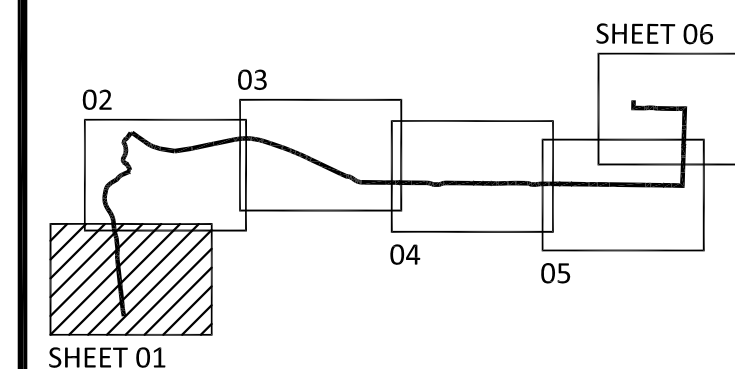
**LaGRANGE THREAD
PHASE 3**
LaGRANGE, GA

TYPICAL SECTIONS

SCALE: 3/8" = 1'
DATE: MARCH 22, 2018

SHEET NAME: **TS-02**

1. LIGHTING NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONDUIT AND DECORATIVE STREET LIGHTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH CITY OF LAGRANGE PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO RELOCATE ANY EXISTING IRRIGATION OUTSIDE OF TRAIL.
3. ALL EXISTING ASPHALT AND CONCRETE APRONS AS NOTED ON PLANS ALONG BROAD STREET AND N. GREENWOOD ST. TO BE REMOVED AND REPLACED WITH CONCRETE APRONS, USING GDOT STANDARD DETAIL A2, UNLESS OTHERWISE SPECIFIED. CONTRACTOR TO REPAIR ANY DAMAGE TO DRIVEWAYS ABUTTING THE BACK EDGE OF TRAIL FOR TRAIL CONSTRUCTION OR APRON RE-GRADING PURPOSES.
4. ALL ROADWAY AND CROSSWALK STRIPING TO BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. UTILITY RELOCATION WORK (HYDRANTS AND UTILITY POLES) NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONTRACTOR TO COORDINATE WITH CITY OF LAGRANGE PRIOR TO CONSTRUCTION.



Key Map

**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**



SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	CP-01

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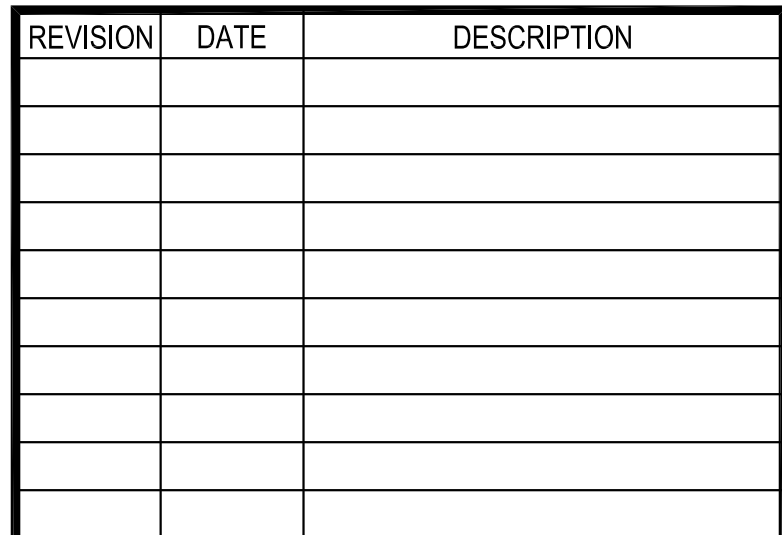
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FAX (770) 834-1005

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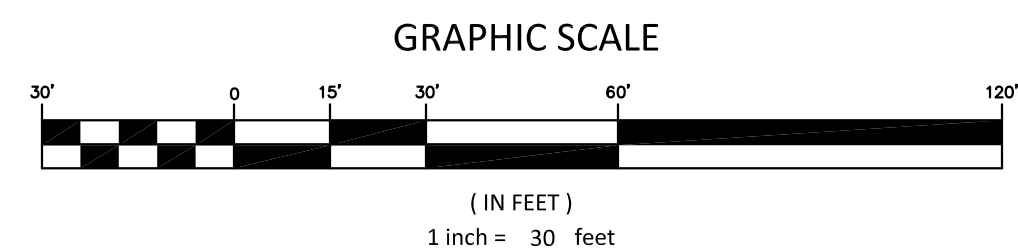


**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**



SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	CP-02

1. LIGHTING NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONDUIT AND DECORATIVE STREET LIGHTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH CITY OF LAGRANGE PRIOR TO CONSTRUCTION.
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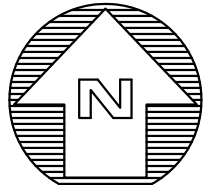
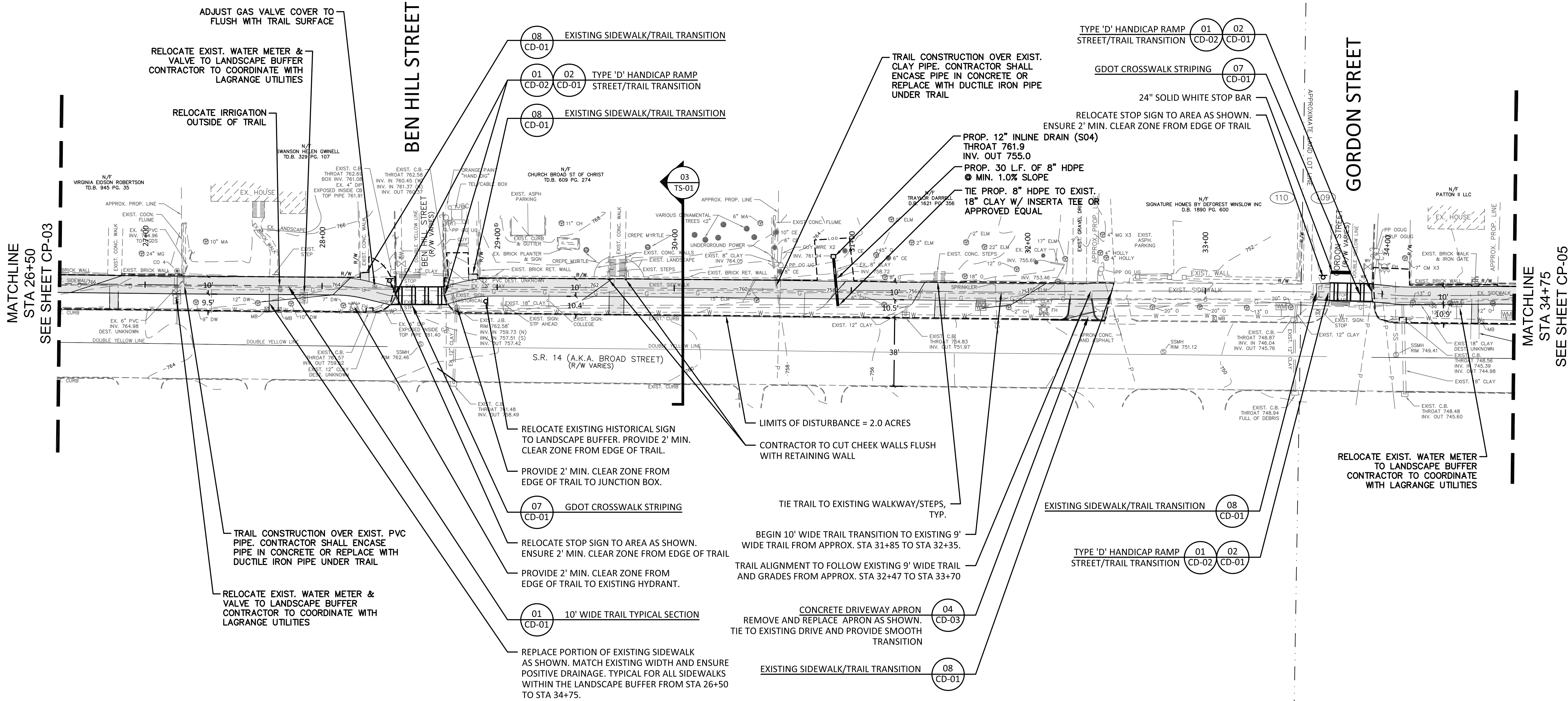
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SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	CP-03

- NOTES:
1. LIGHTING NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONDUIT AND DECORATIVE STREET LIGHTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH CITY OF LaGRANGE PRIOR TO CONSTRUCTION.
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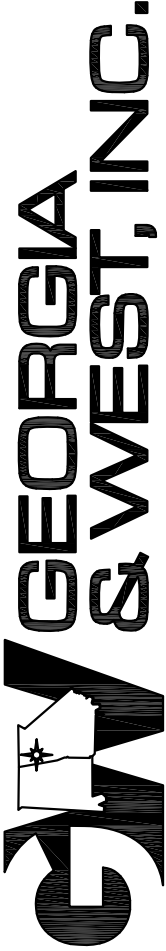
GRAPHIC SCALE



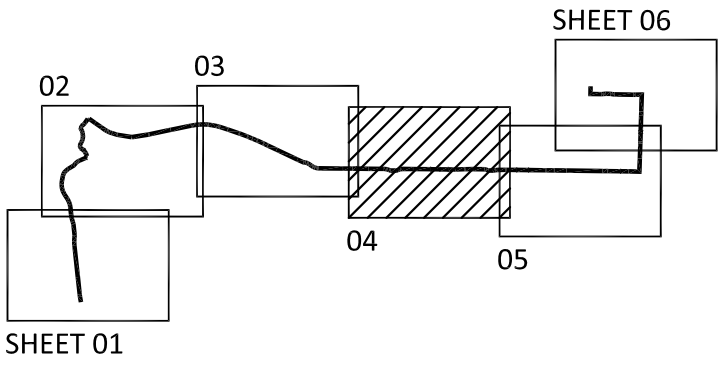
(IN FEET)
1 inch = 30 feet

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Key Map
North

REVISION	DATE	DESCRIPTION

KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

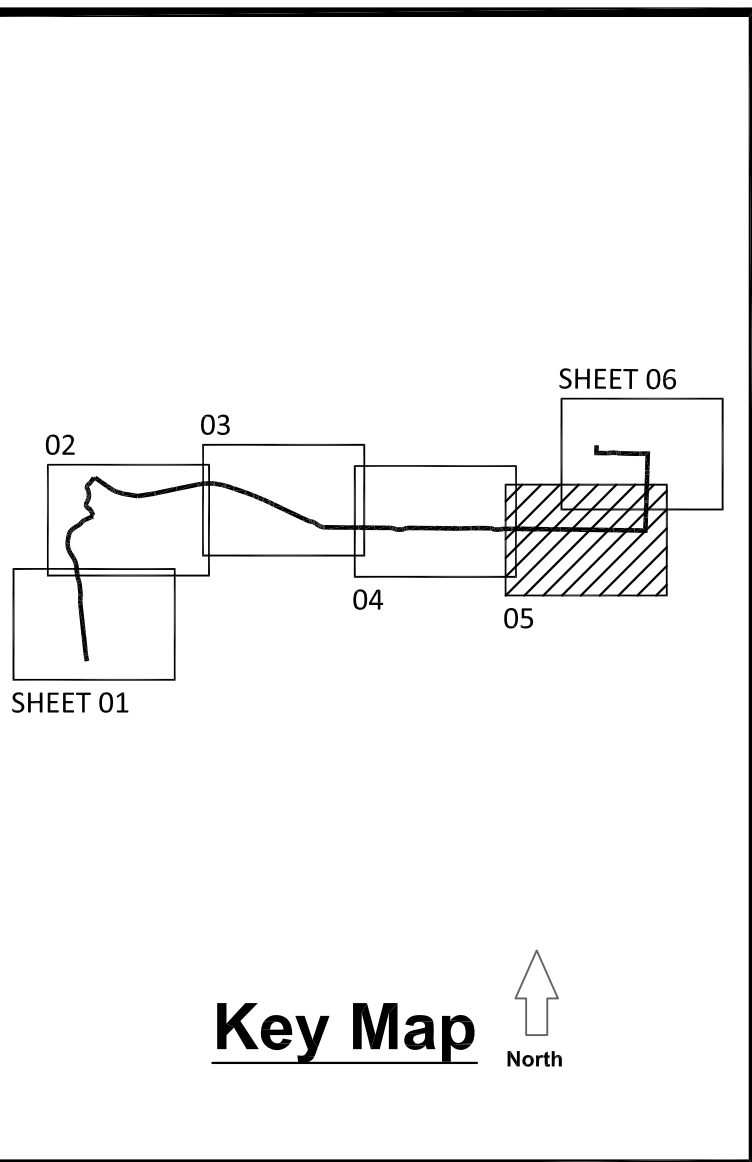
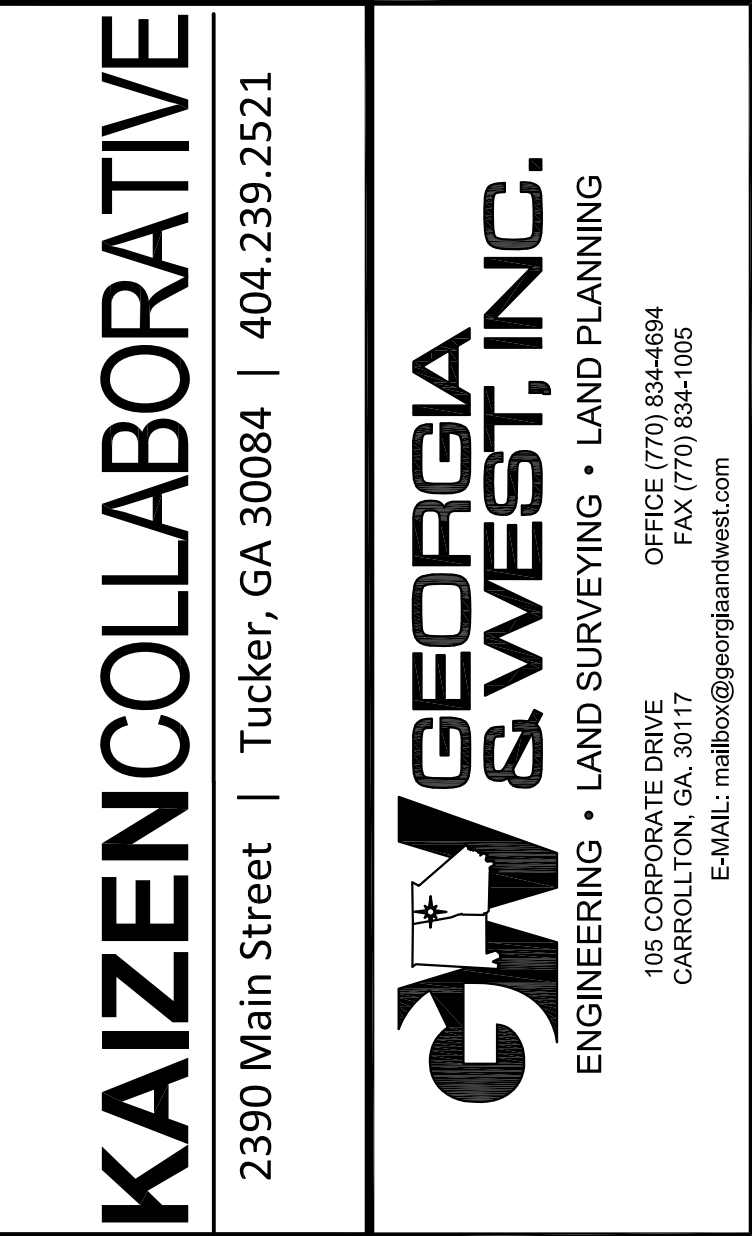
**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**



CONSTRUCTION PLAN

SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	CP-04

1. LIGHTING NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONDUIT AND DECORATIVE STREET LIGHTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH CITY OF LaGRANGE PRIOR TO CONSTRUCTION.
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KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

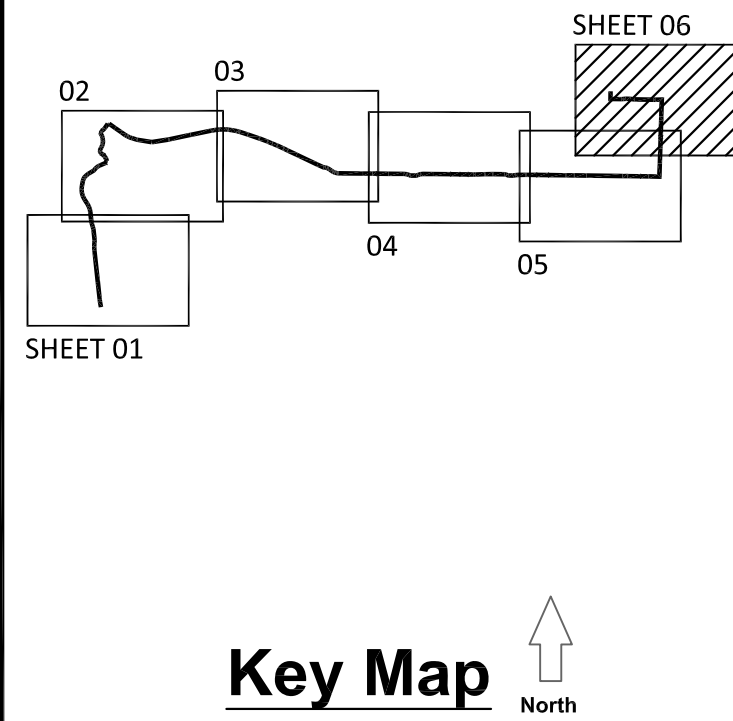
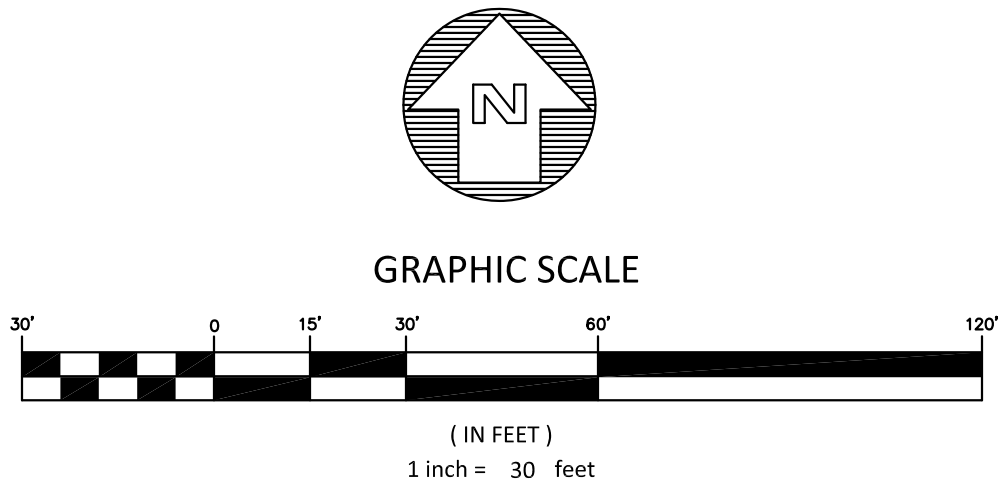
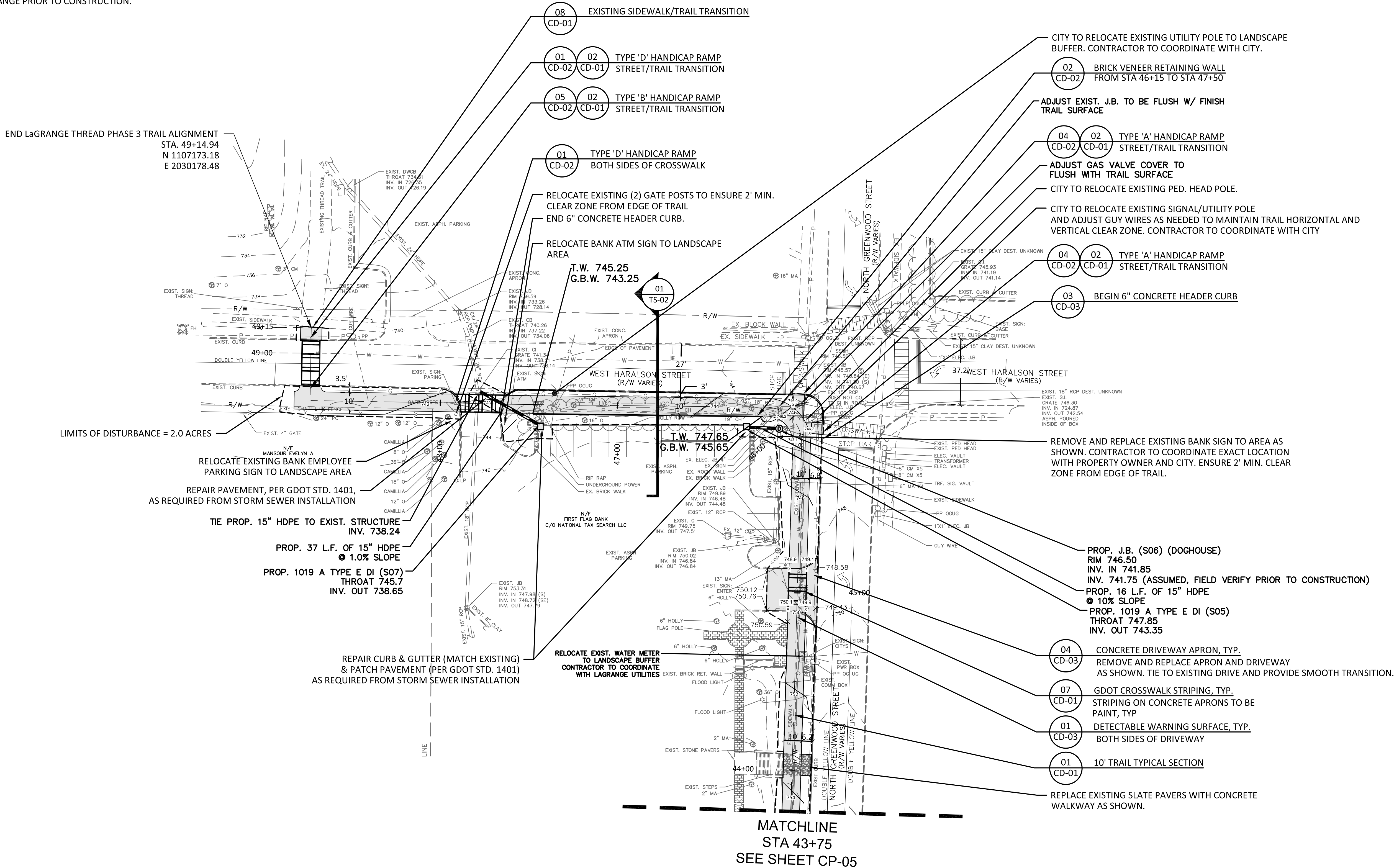
LaGRANGE THREAD
PHASE 3
LaGRANGE, GA



CONSTRUCTION PLAN

SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	CP-05

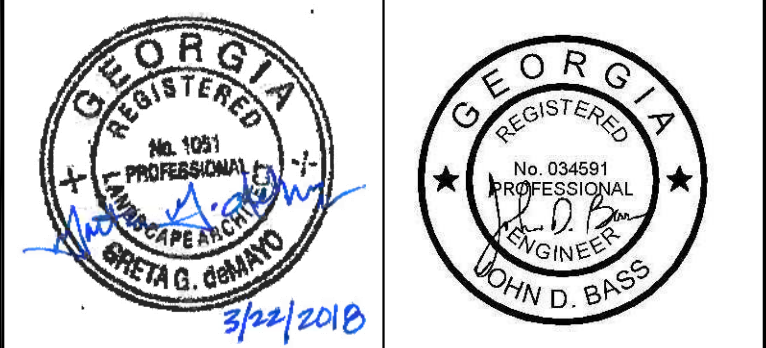
- NOTES:
1. LIGHTING NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONDUIT AND DECORATIVE STREET LIGHTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH CITY OF LaGRANGE PRIOR TO CONSTRUCTION.
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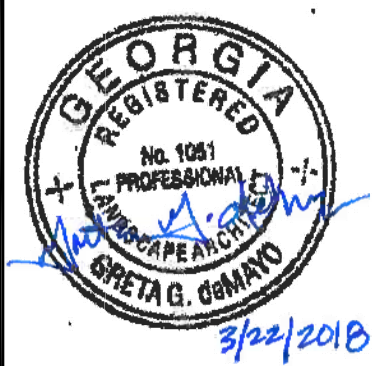
REVISION	DATE	DESCRIPTION

KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

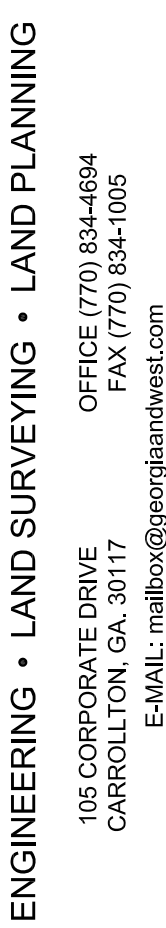
LaGRANGE THREAD
PHASE 3
LaGRANGE, GA

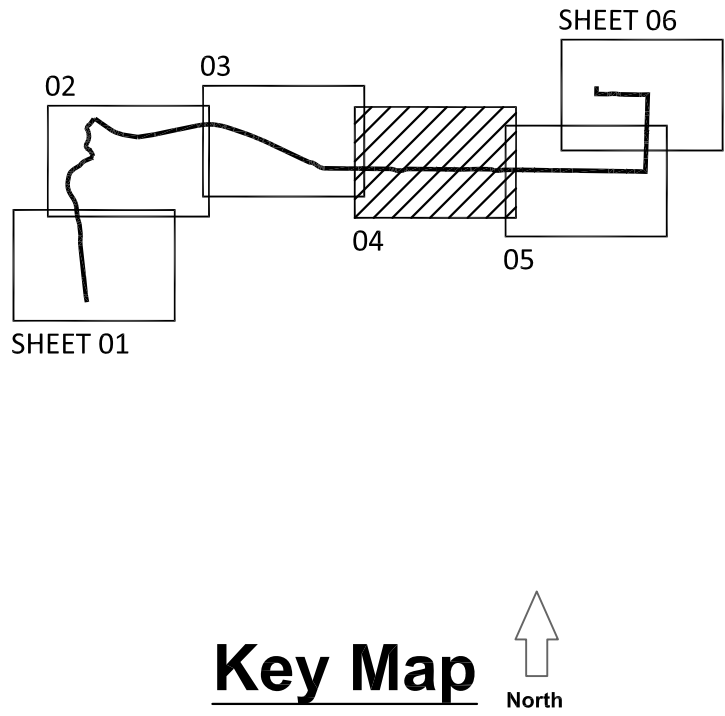


CONSTRUCTION PLAN	
SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	CP-06



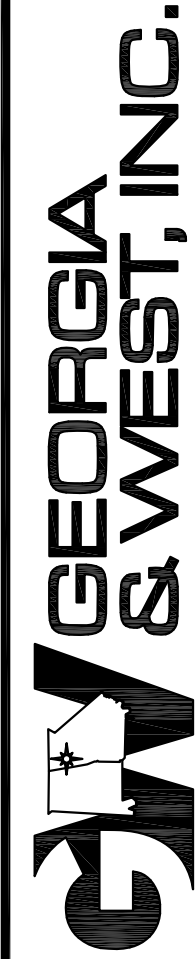
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[illegible]



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SHEET NAME:	SM-06
-------------	-------

LAGRANGE THREAD PHASE 3- 1 OF 3



PC 4-5

Mile
XXX
km
xx
elevation
744
PC 4-1

NO MOTOR VEHICLES
- ELECTRIC SCOOTERS
- HOVER BOARDS
- GOLF CARTS
- FOUR WHEELERS
MOTORIZED WHEELCHAIRS
ARE PERMITTED
R 5-3-A


Regulatory Sign #1 - Front
STA 0+10

STOP HERE ON RED
↓
PR 2-2

VERNON STREET
PC 2-6

Mile
XXX
km
xx
elevation
744
PC 4-1

Regulatory Sign #1 - Back
STA 0+10




W 3-1

DRIVEWAY
PW 4-20-2

Mile
XXX
km
xx
elevation
747
PC 4-1

Regulatory Sign #2 - Front
STA 3+00




W 3-4

INTERSECTION AHEAD
PW 4-1

Mile
XXX
km
xx
elevation
747
PC 4-1

Regulatory Sign #2 - Back
STA 3+00




R 1-1

PANTHER WAY
PC 2-6

Mile
XXX
km
xx
elevation
759
PC 4-1

Regulatory Sign #3 - Front
STA 7+40




PC 4-5

Mile
XXX
km
xx
elevation
759
PC 4-1

NO MOTOR VEHICLES
- ELECTRIC SCOOTERS
- HOVER BOARDS
- GOLF CARTS
- FOUR WHEELERS
MOTORIZED WHEELCHAIRS
ARE PERMITTED
R 5-3-A

Regulatory Sign #3 - Back
STA 7+40




PC 4-5

Mile
XXX
km
xx
elevation
760
PC 4-1

NO MOTOR VEHICLES
- ELECTRIC SCOOTERS
- HOVER BOARDS
- GOLF CARTS
- FOUR WHEELERS
MOTORIZED WHEELCHAIRS
ARE PERMITTED
R 5-3-A

Regulatory Sign #4 - Front
STA 8+00




R 1-1

PANTHER WAY
PC 2-6

Mile
XXX
km
xx
elevation
760
PC 4-1

Regulatory Sign #4 - Back
STA 8+00




W 2-6

YIELD TO ONCOMING TRAFFIC
PR 1-3

Mile
XXX
km
xx
elevation
762
PC 4-1

Regulatory Sign #5 - Front
STA 8+55




PC 4-5

STOP AHEAD
PW 4-31

Mile
XXX
km
xx
elevation
762
PC 4-1

Regulatory Sign #5 - Back
STA 8+55




PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
768
PC 4-1

Regulatory Sign #6 Front
STA 12+50



W 2-6

YIELD TO ONCOMING TRAFFIC
PR 1-3

Mile
XXX
km
xx
elevation
768
PC 4-1

Regulatory Sign #6 - Back
STA 12+50


LAGRANGE THREAD PHASE 3- 3 OF 3

STOP HERE ON RED
↓
PR 2-2

N GREENWOOD ST
PC 2-6

Mile
XXX
km
xx
elevation
760
PC 4-1

Regulatory Sign #13 - Front
STA 41+70




PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
760
PC 4-1

Regulatory Sign #13 - Back
STA 41+70



PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
748
PC 4-1


Regulatory Sign #14 - Front
STA 46+10

STOP HERE ON RED
↓
PR 2-2

N GREENWOOD ST
PC 2-6

Mile
XXX
km
xx
elevation
748
PC 4-1

Regulatory Sign #14 - Back
STA 46+10




R 1-1

W HARALSON STREET
PC 2-6

Mile
XXX
km
xx
elevation
742
PC 4-1

Regulatory Sign #15 - Front
STA 48+60



PC 4-5

DRIVEWAY
PW 4-20-2

Mile
XXX
km
xx
elevation
742
PC 4-1

Regulatory Sign #15 - Back
STA 48+60

NOTE: ALL SIGNS TO BE FABRICATED USING DIRECT PRINTING PROCESS. ALL SIGNS TO HAVE BLACK BACK.

LAGRANGE THREAD PHASE 3- 2 OF 3

STOP HERE ON RED
↓
PR 2-2

SPRINGDALE DRIVE
PC 2-6

Mile
XXX
km
xx
elevation
752
PC 4-1

Regulatory Sign #7 - Front
STA 23+00



PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
752
PC 4-1

Regulatory Sign #7 - Back
STA 23+00



PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
778
PC 4-1

Regulatory Sign #8 - Front
STA 23+75

STOP HERE ON RED
↓
PR 2-2

SPRINGDALE DRIVE
PC 2-6

Mile
XXX
km
xx
elevation
778
PC 4-1

Regulatory Sign #8 - Back
Spur STA 23+75



R 1-1

BEN HILL STREET
PC 2-6

Mile
XXX
km
xx
elevation
764
PC 4-1

Regulatory Sign #9 - Front
STA 28+30



PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
764
PC 4-1

Regulatory Sign #9 - Back
STA 28+30



PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
763
PC 4-1

Regulatory Sign #10 - Front
STA 28+80



R 1-1

BEN HILL STREET
PC 2-6

Mile
XXX
km
xx
elevation
763
PC 4-1

Regulatory Sign #10 - Back
STA 28+80



R 1-1

GORDON STREET
PC 2-6

Mile
XXX
km
xx
elevation
750
PC 4-1

Regulatory Sign #11 - Front
STA 33+65



PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
750
PC 4-1

Regulatory Sign #11 - Back
STA 33+65



PC 4-5

DRIVEWAYS
PW 4-20

Mile
XXX
km
xx
elevation
751
PC 4-1

Regulatory Sign #12 - Front
STA 34+05



R 1-1

GORDON STREET
PC 2-6

Mile
XXX
km
xx
elevation
751
PC 4-1

Regulatory Sign #12 - Back
STA 34+05

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REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2017 - 136
PROJECT MANAGER GGD

LAGRANGE THREAD
PHASE 3
LaGRANGE, GA



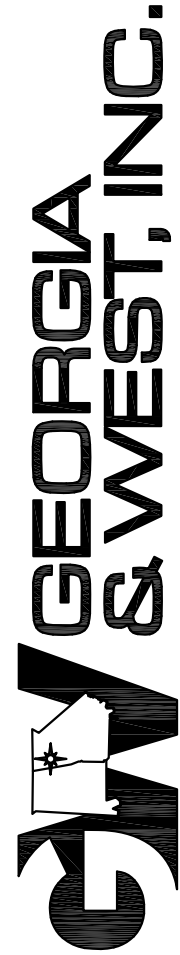
SIGN MATRIX

SCALE: NTS
DATE: MARCH 22, 2018

SHEET NAME: SM-07



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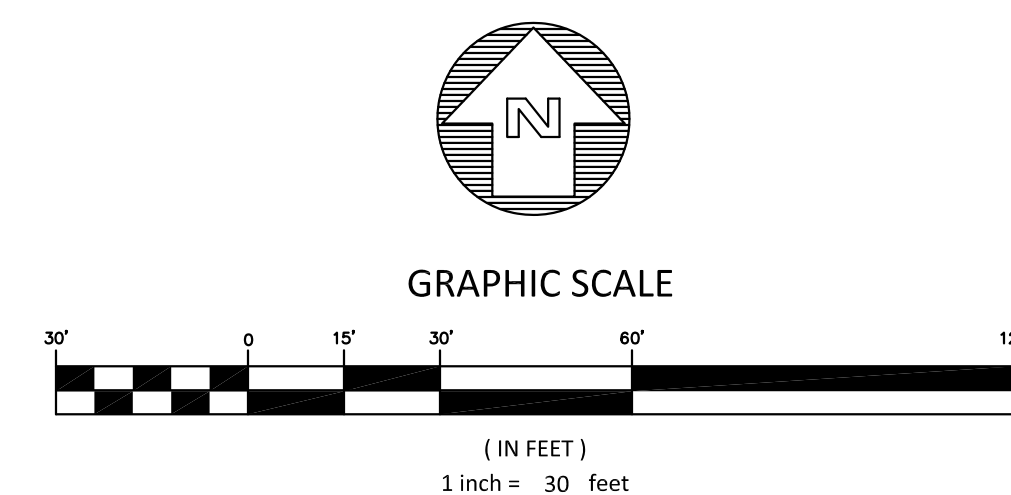
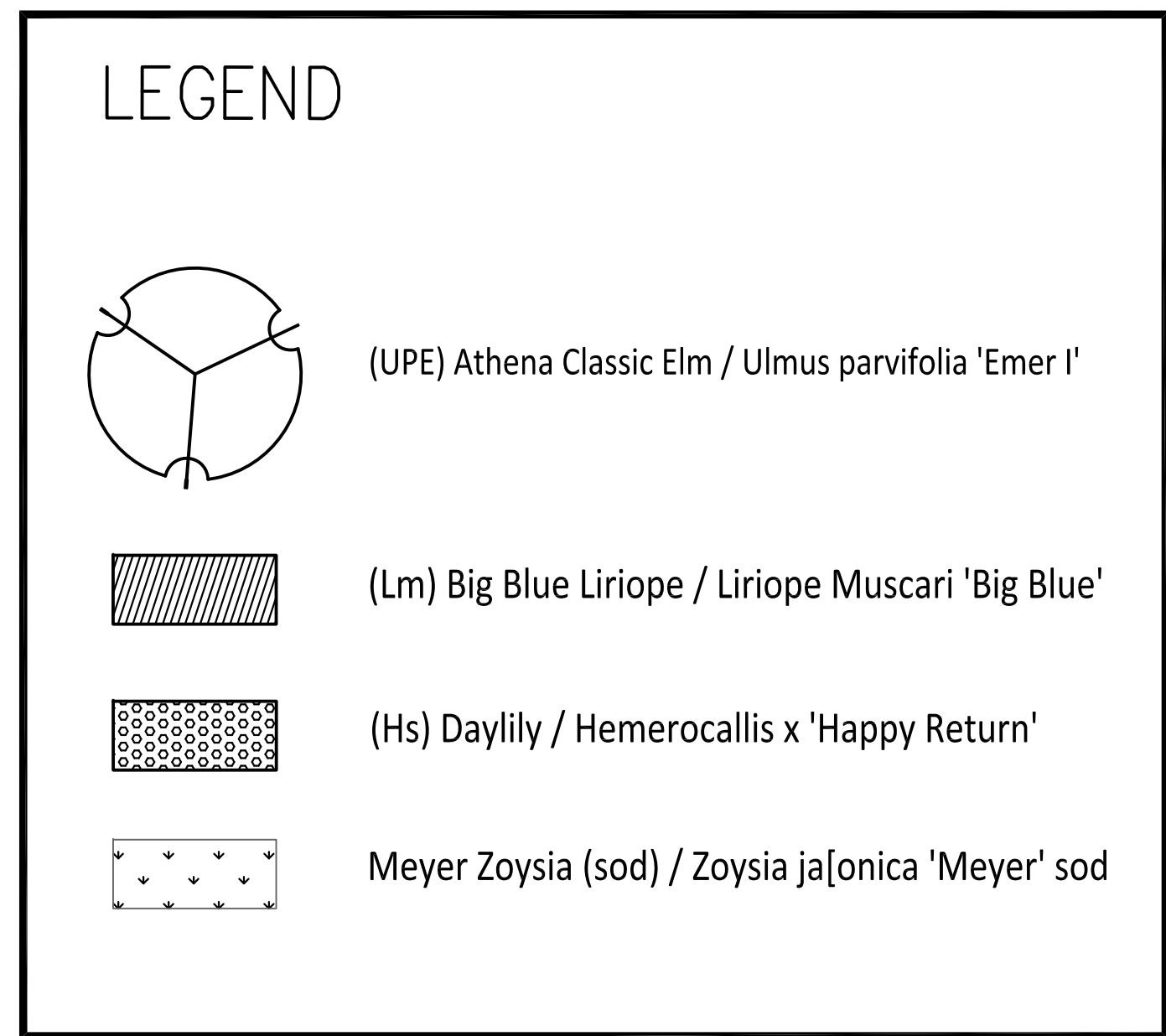
KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

LaGRANGE THREAD
PHASE 3
LaGRANGE, GA

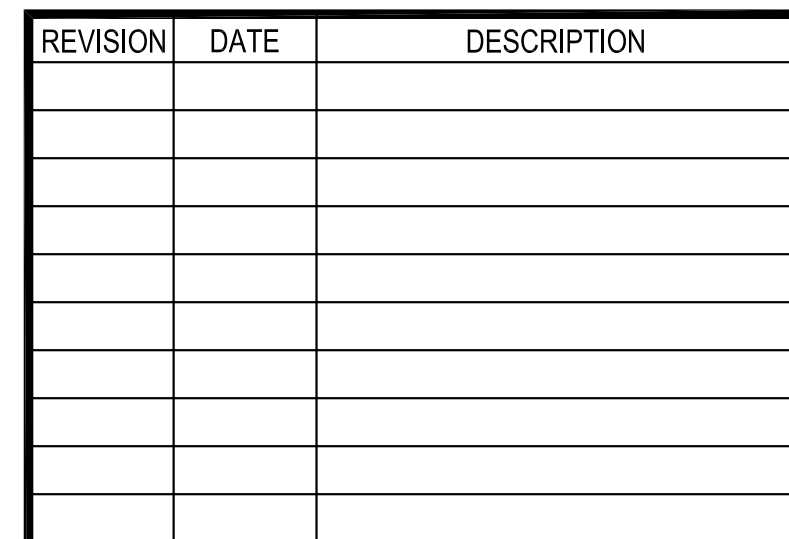


LANDSCAPE PLAN

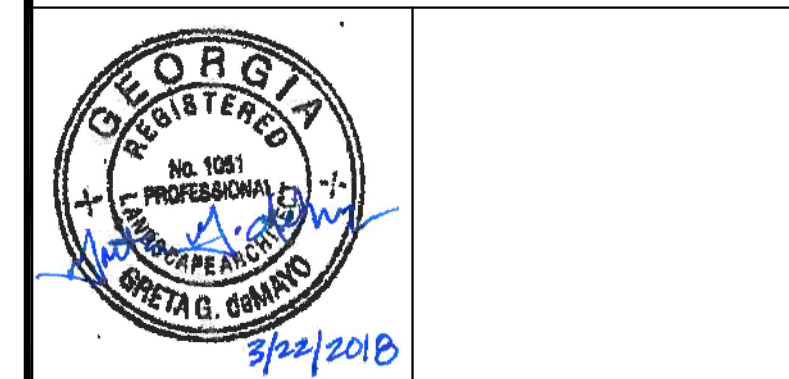
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DATE:	MARCH 22, 2018
SHEET NAME:	LP-02



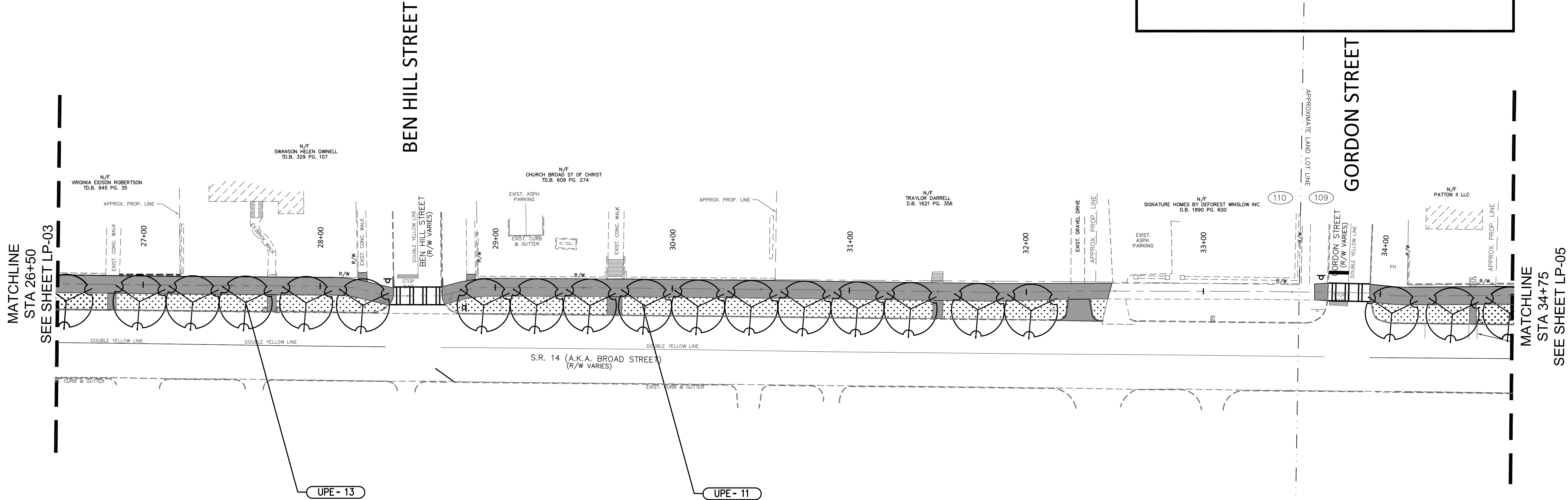
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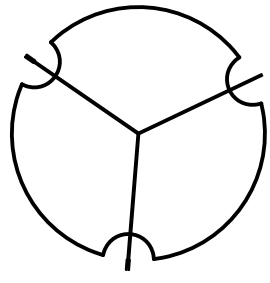
**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**



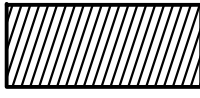
SHEET NAME: **LP-03**



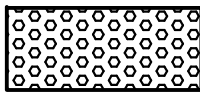
LEGEND



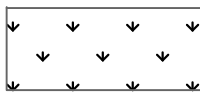
(UPE) Athena Classic Elm / Ulmus parvifolia 'Emer l'



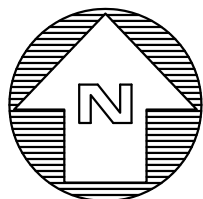
(Lm) Big Blue Liriope / Liriope Muscari 'Big Blue'



(Hs) Daylily / Hemerocallis x 'Happy Return'



Meyer Zoysia (sod) / Zoysia ja[onica 'Meyer' sod



GRAPHIC SCALE



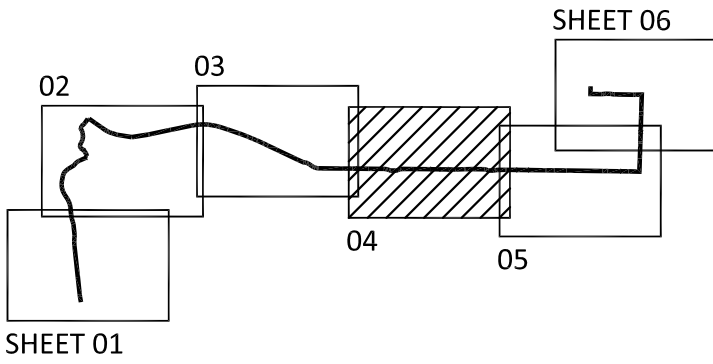
(IN FEET)
1 inch = 30 feet

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Key Map



REVISION	DATE	DESCRIPTION

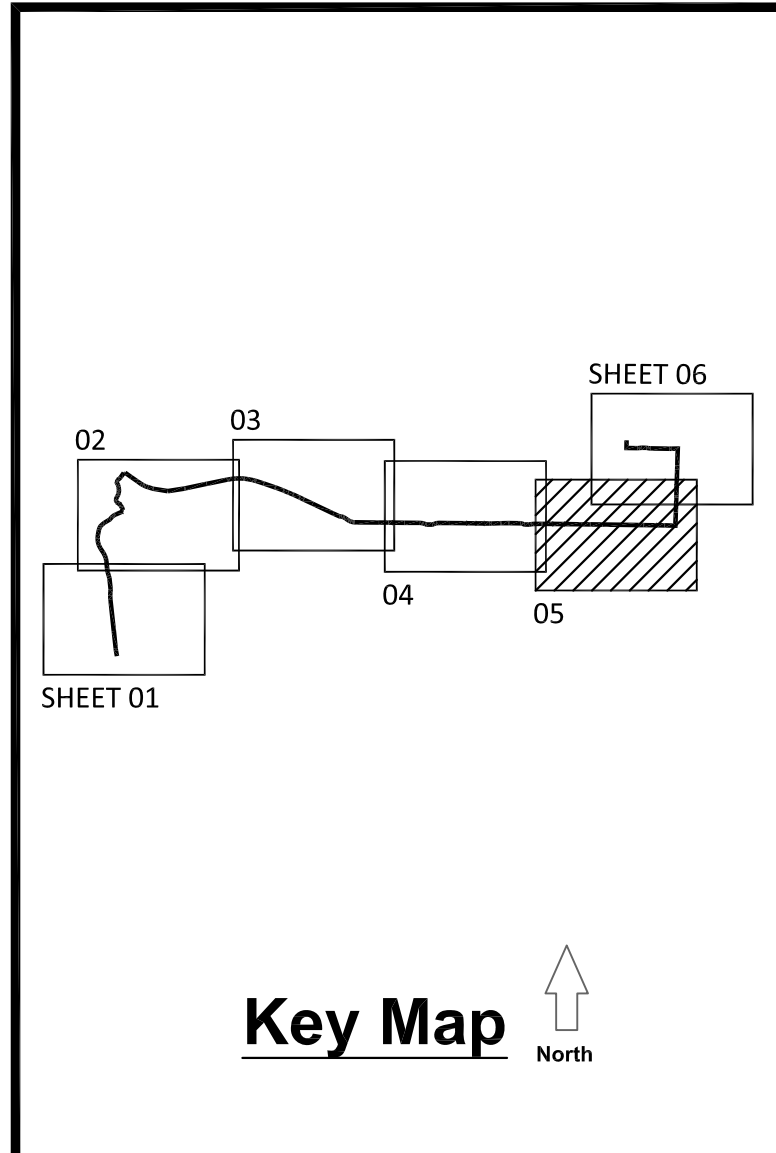
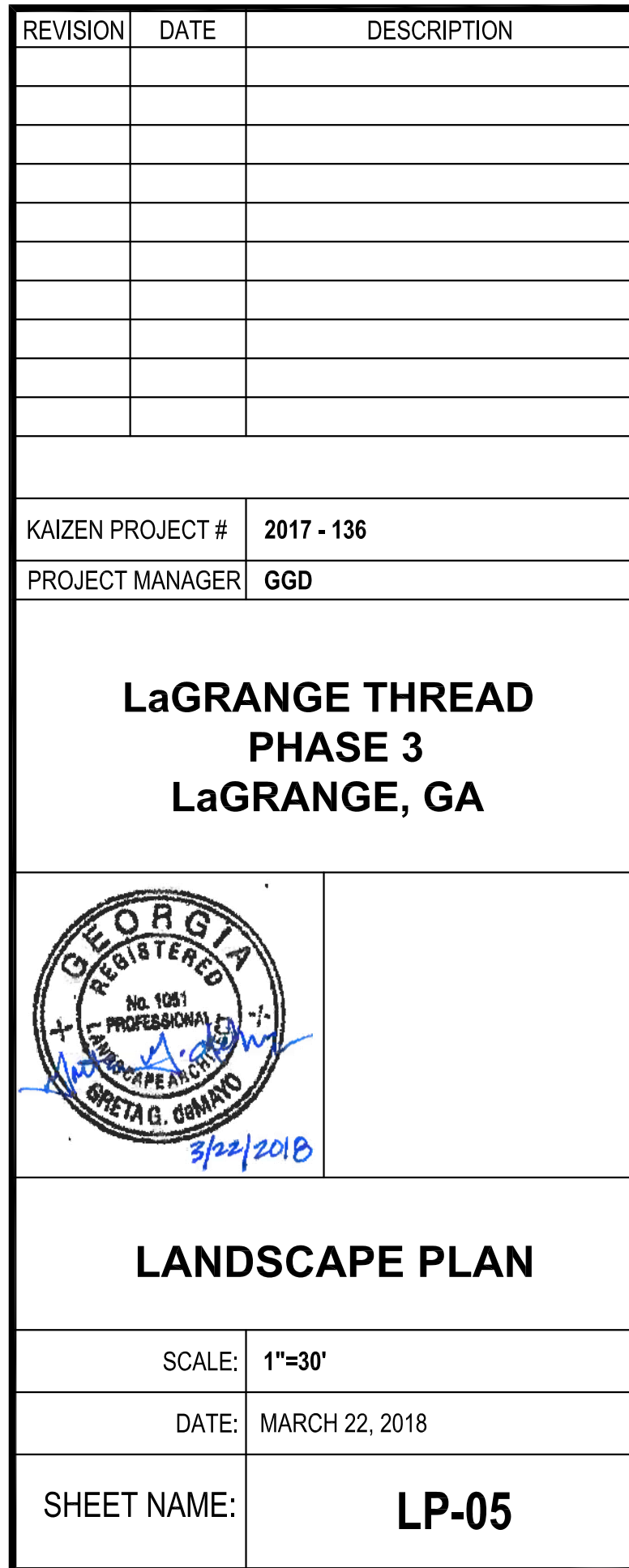
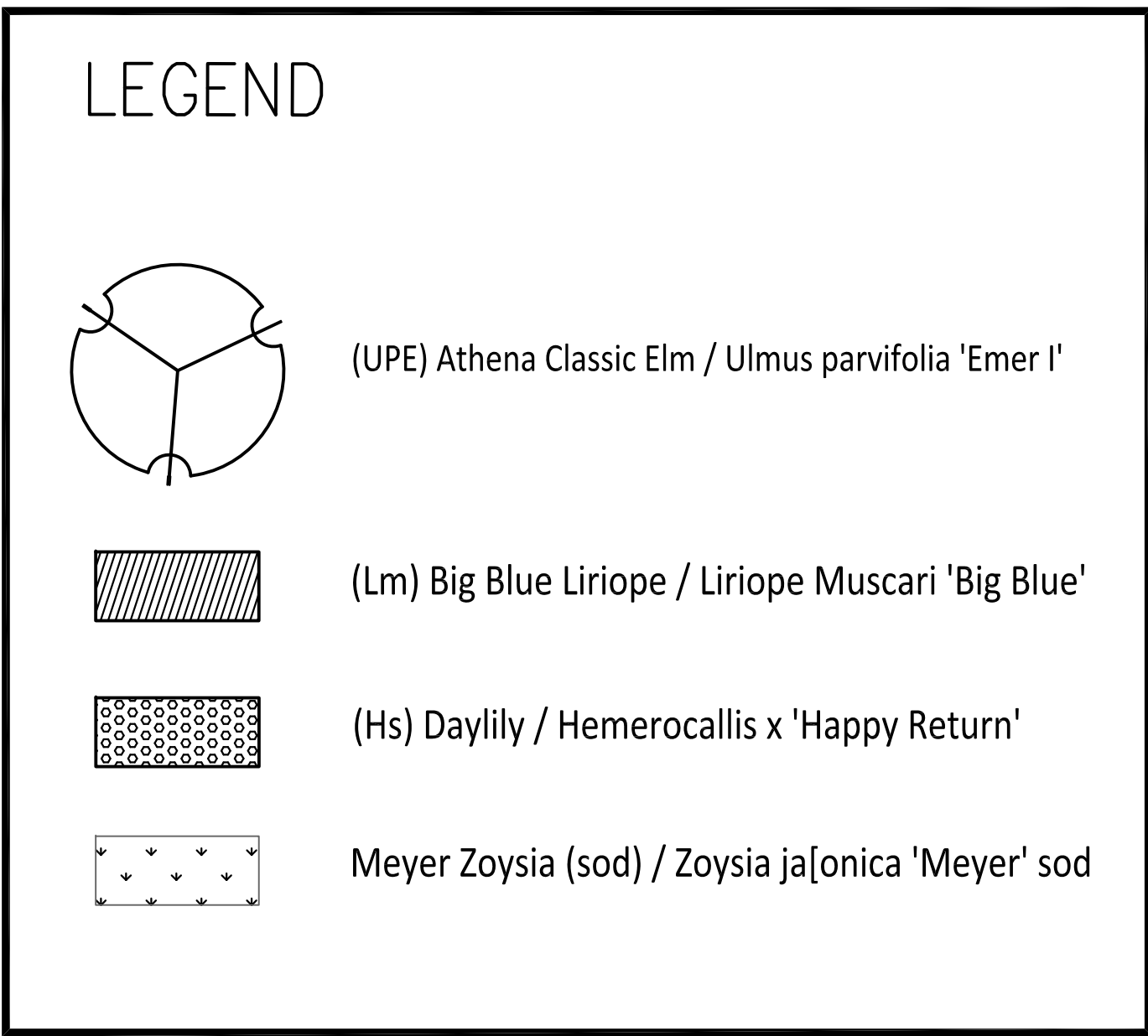
KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

LaGRANGE THREAD
PHASE 3
LaGRANGE, GA



LANDSCAPE PLAN

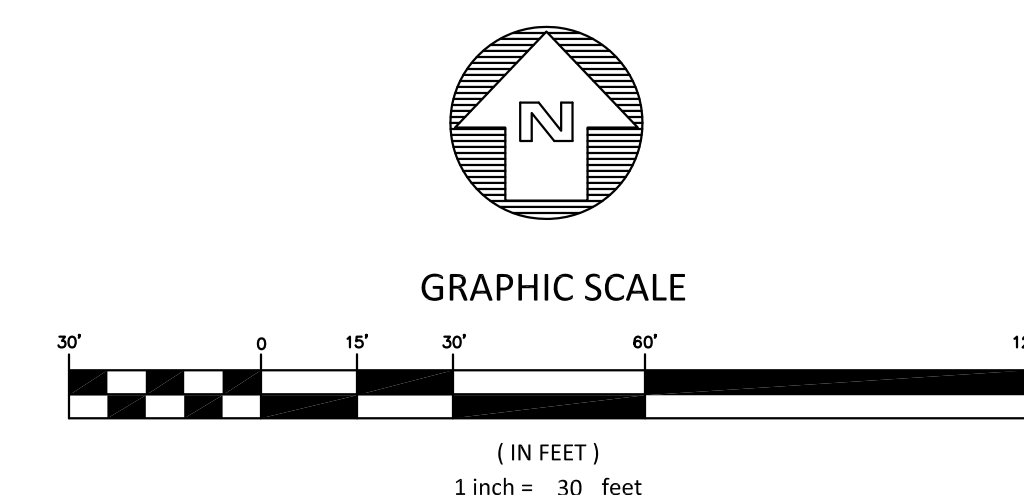
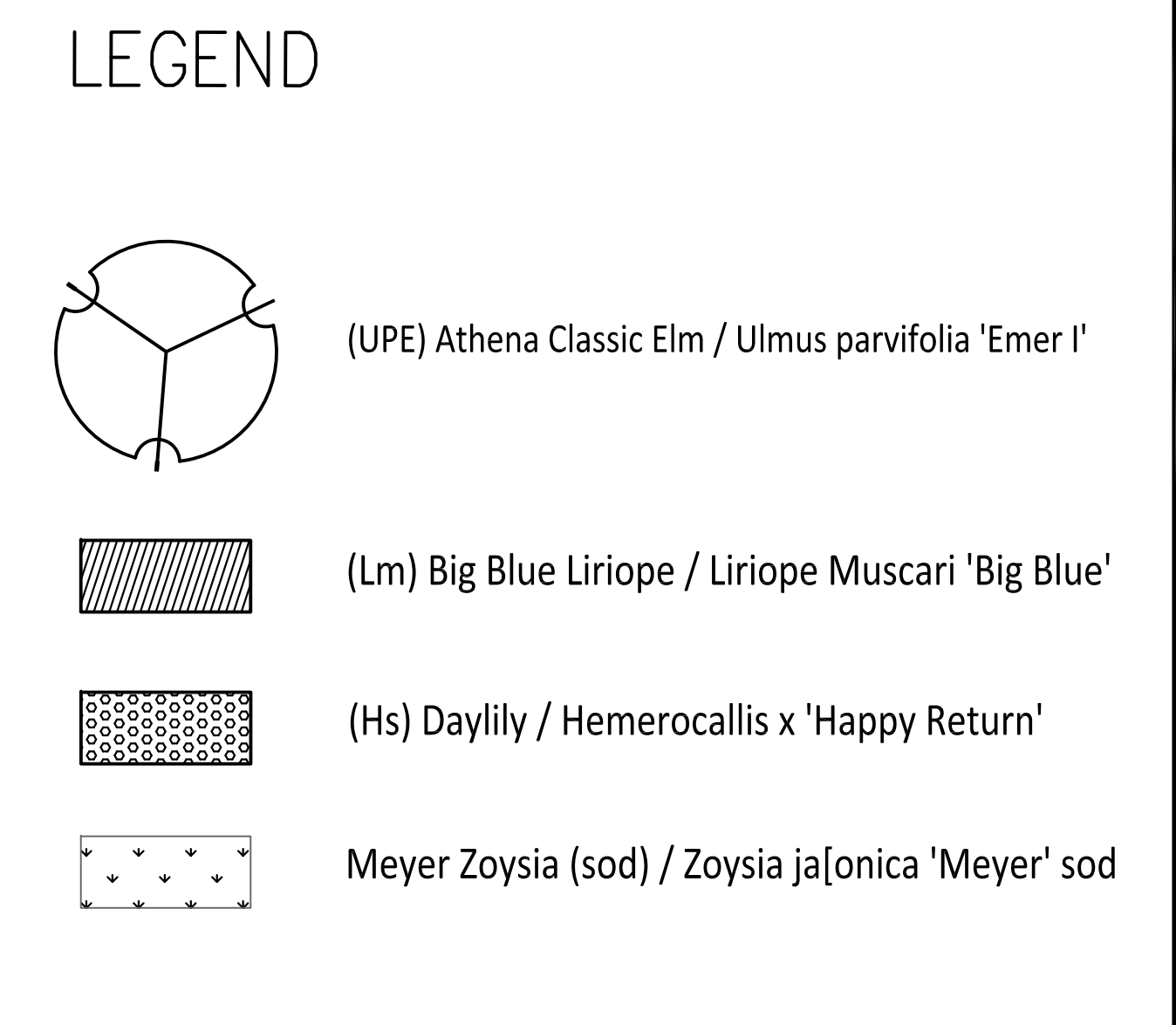
SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	LP-04



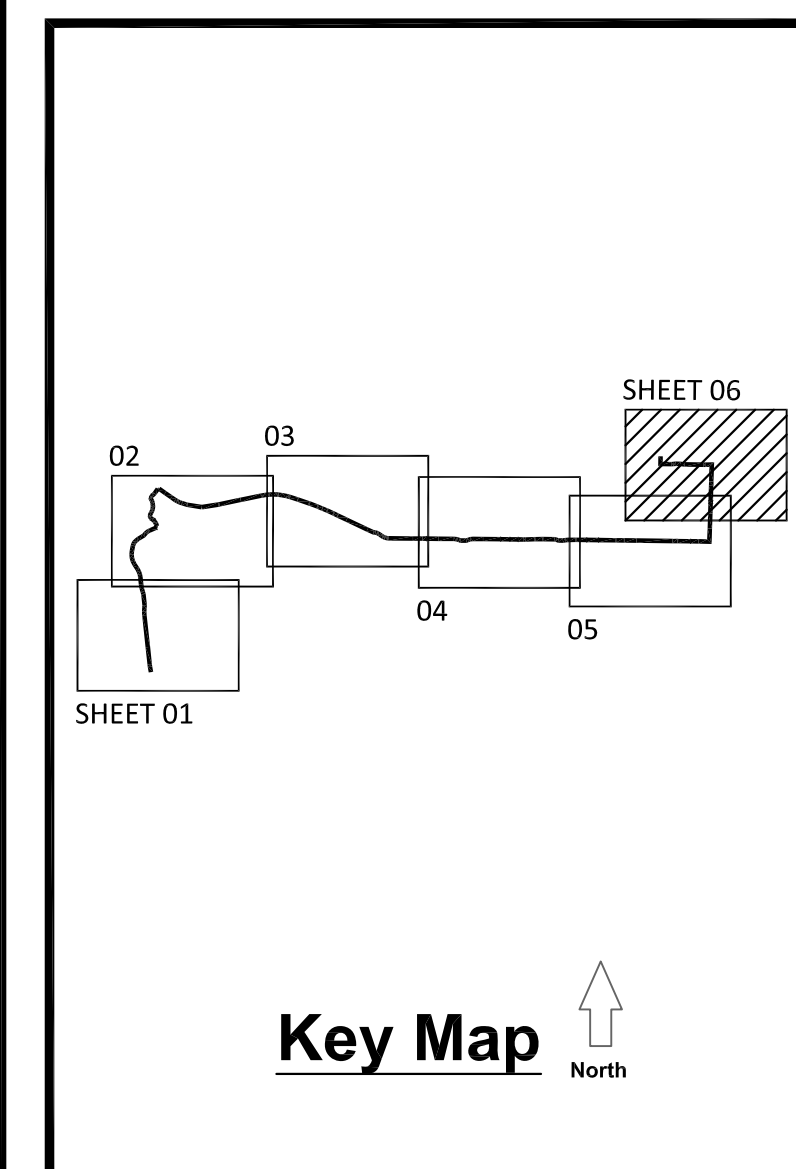
KAIZEN COLLABORATIVE

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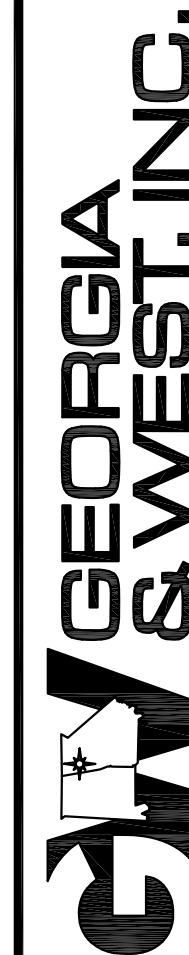


REVISION	DATE	DESCRIPTION
KAIZEN PROJECT #	2017 - 136	
PROJECT MANAGER	GGD	
LaGRANGE THREAD PHASE 3 LaGRANGE, GA		
		
LANDSCAPE PLAN		
SCALE:	1"=30'	
DATE:	MARCH 22, 2018	
SHEET NAME:	LP-06	



KAIZEN COLLABORATIVE

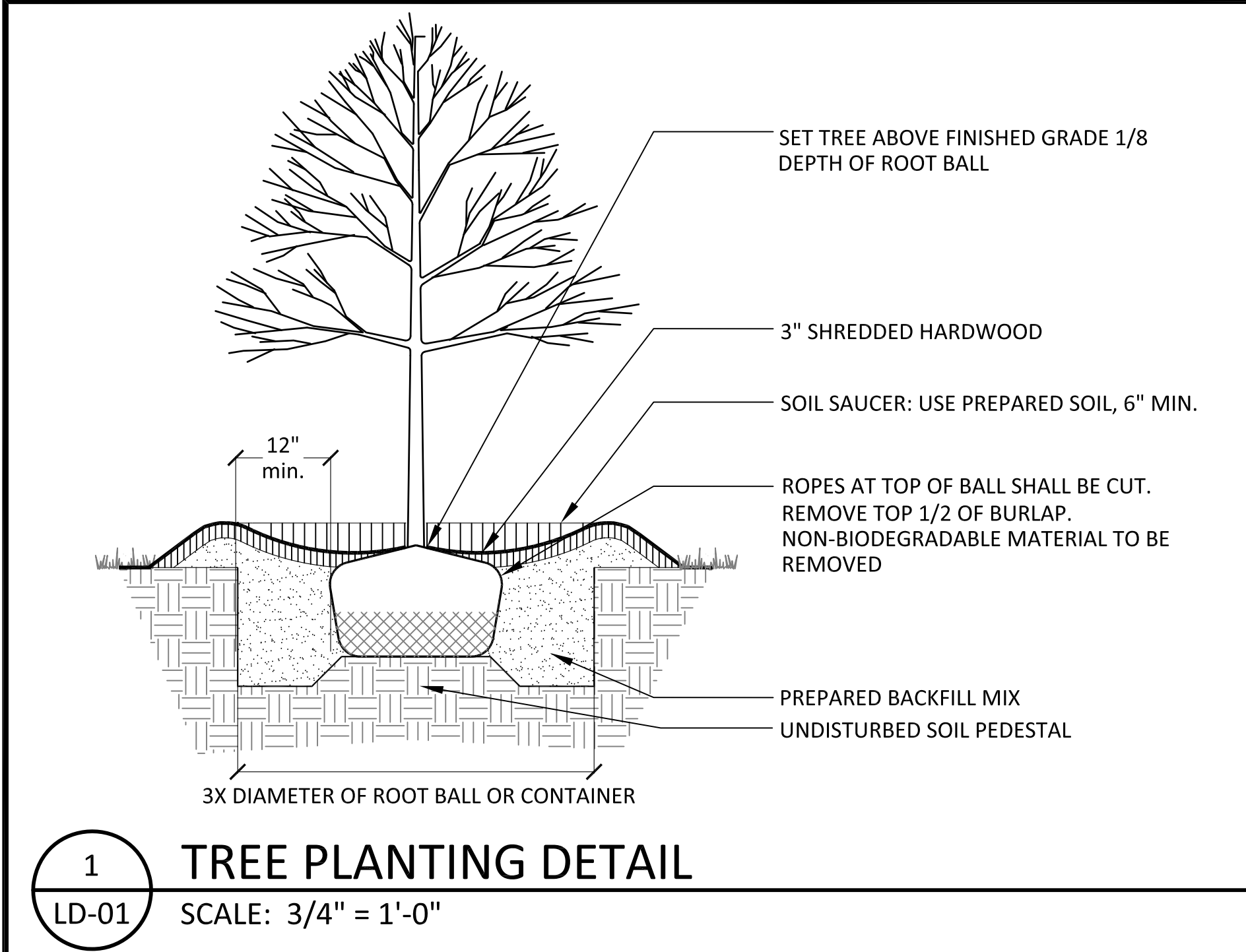
2390 Main Street | Tucker, GA 30084 | 404.239.2521



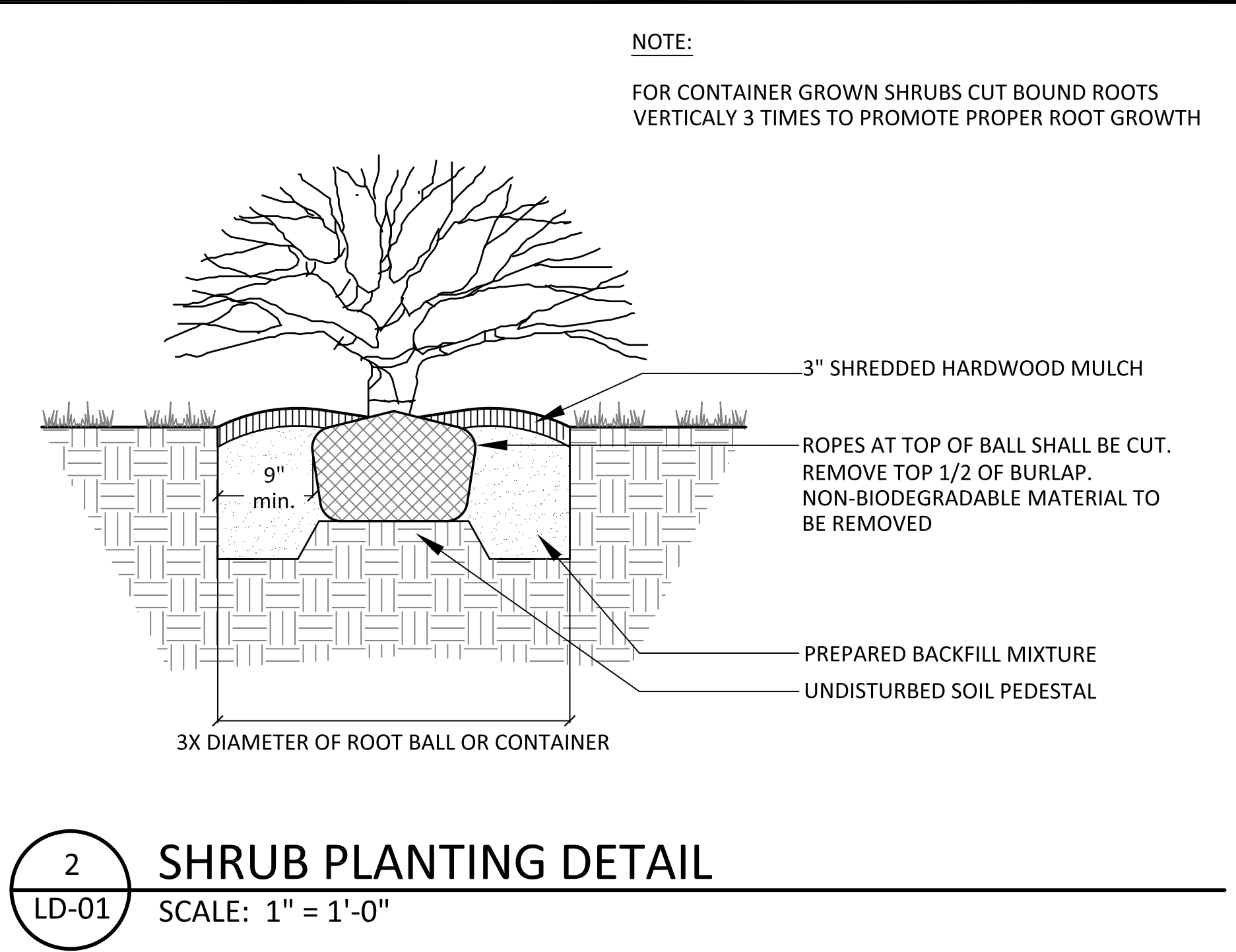
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CARROLLTON, GA. 30117

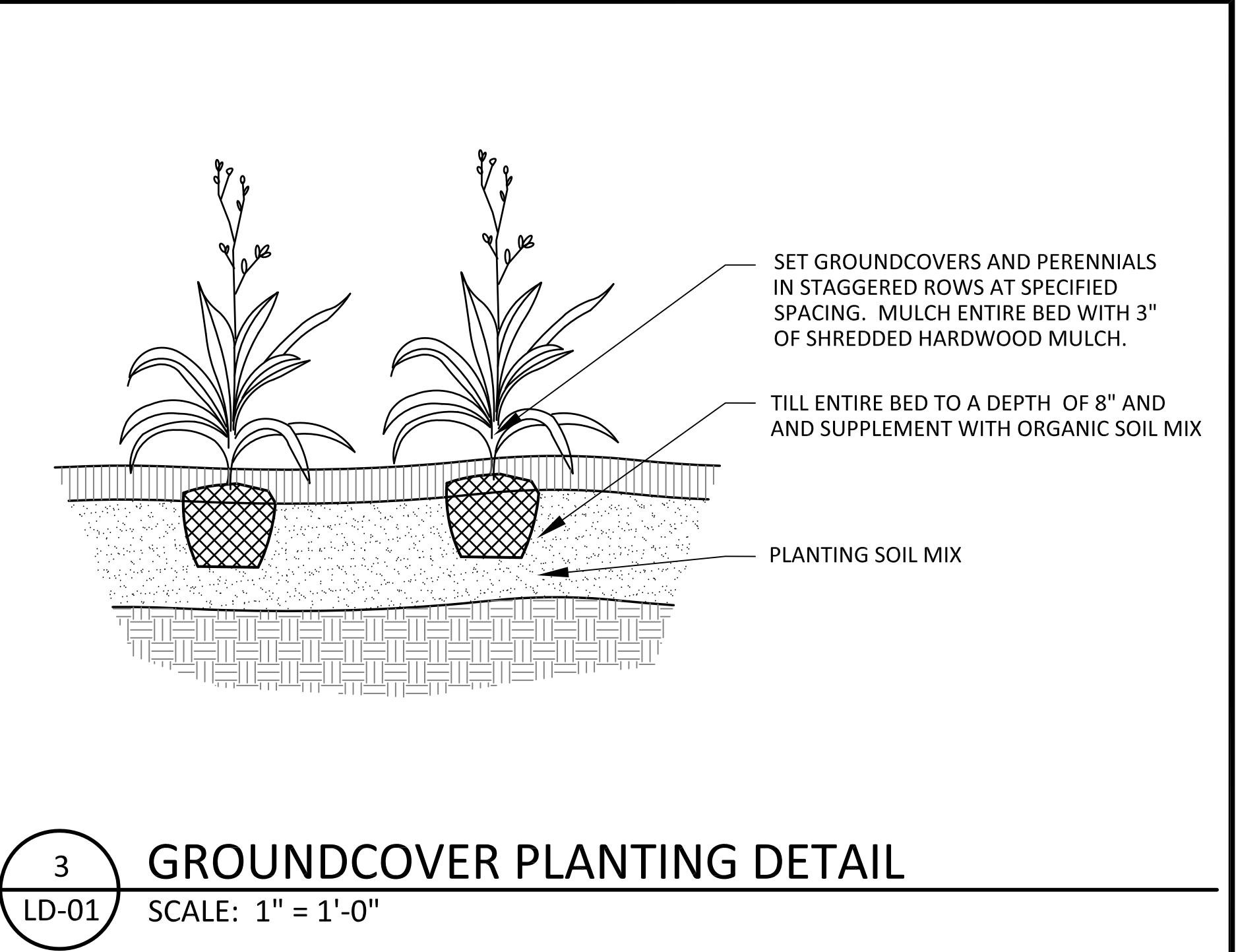
OFFICE (770) 834-4694
FAX (770) 834-1005
E-MAIL: mailbox@neandlandwest.com



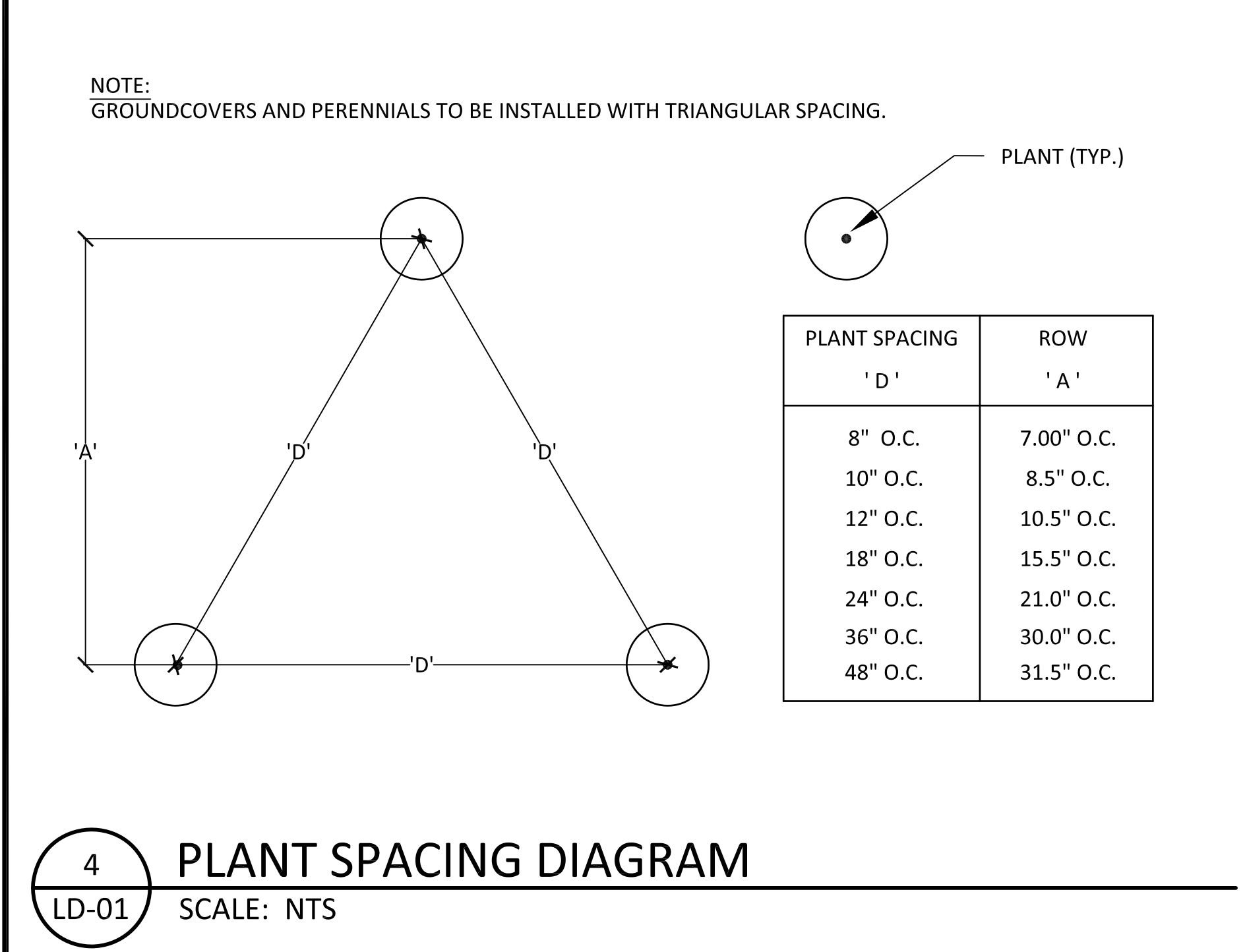
1 TREE PLANTING DETAIL
LD-01 SCALE: 3/4" = 1'-0"



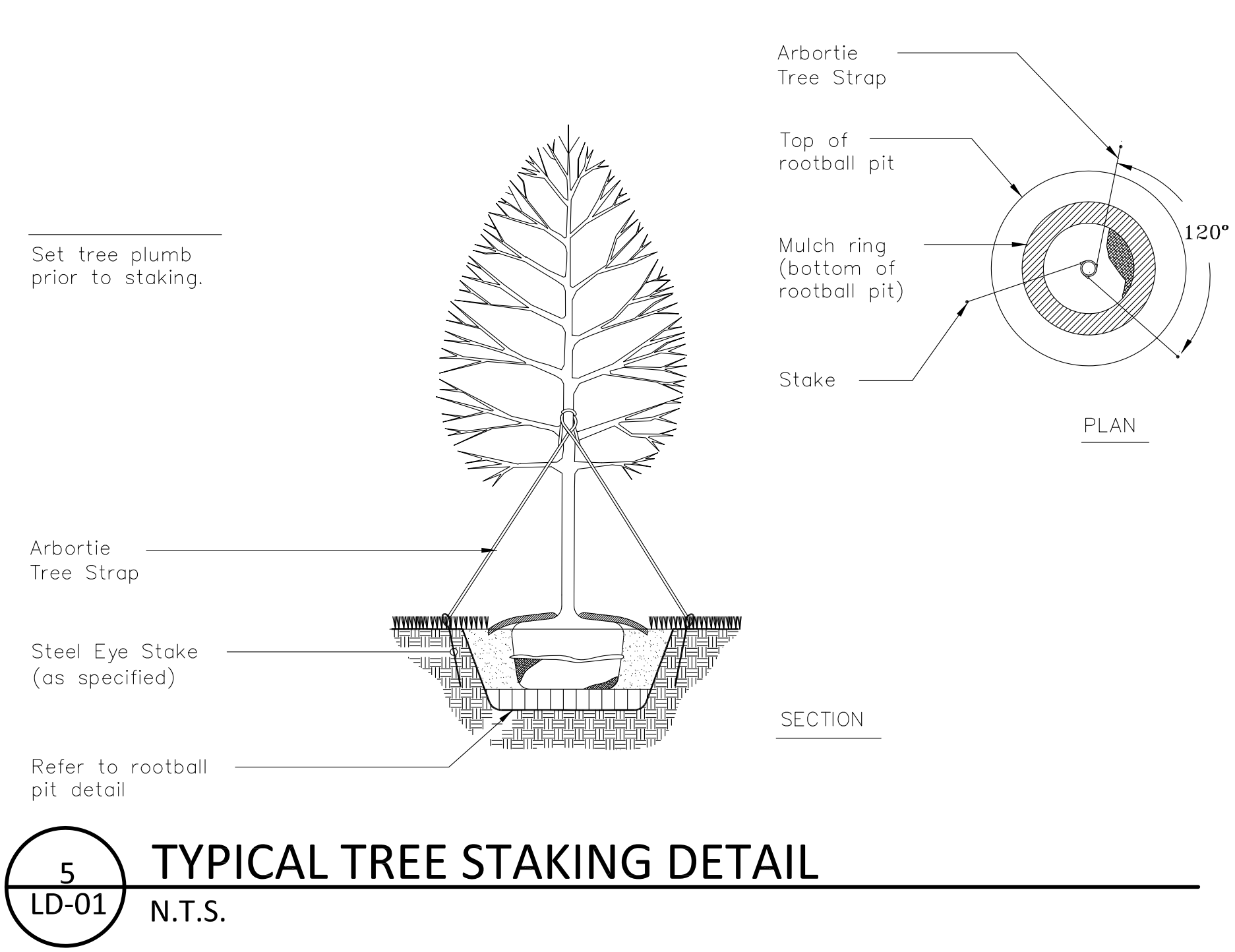
2 SHRUB PLANTING DETAIL
LD-01 SCALE: 1" = 1'-0"



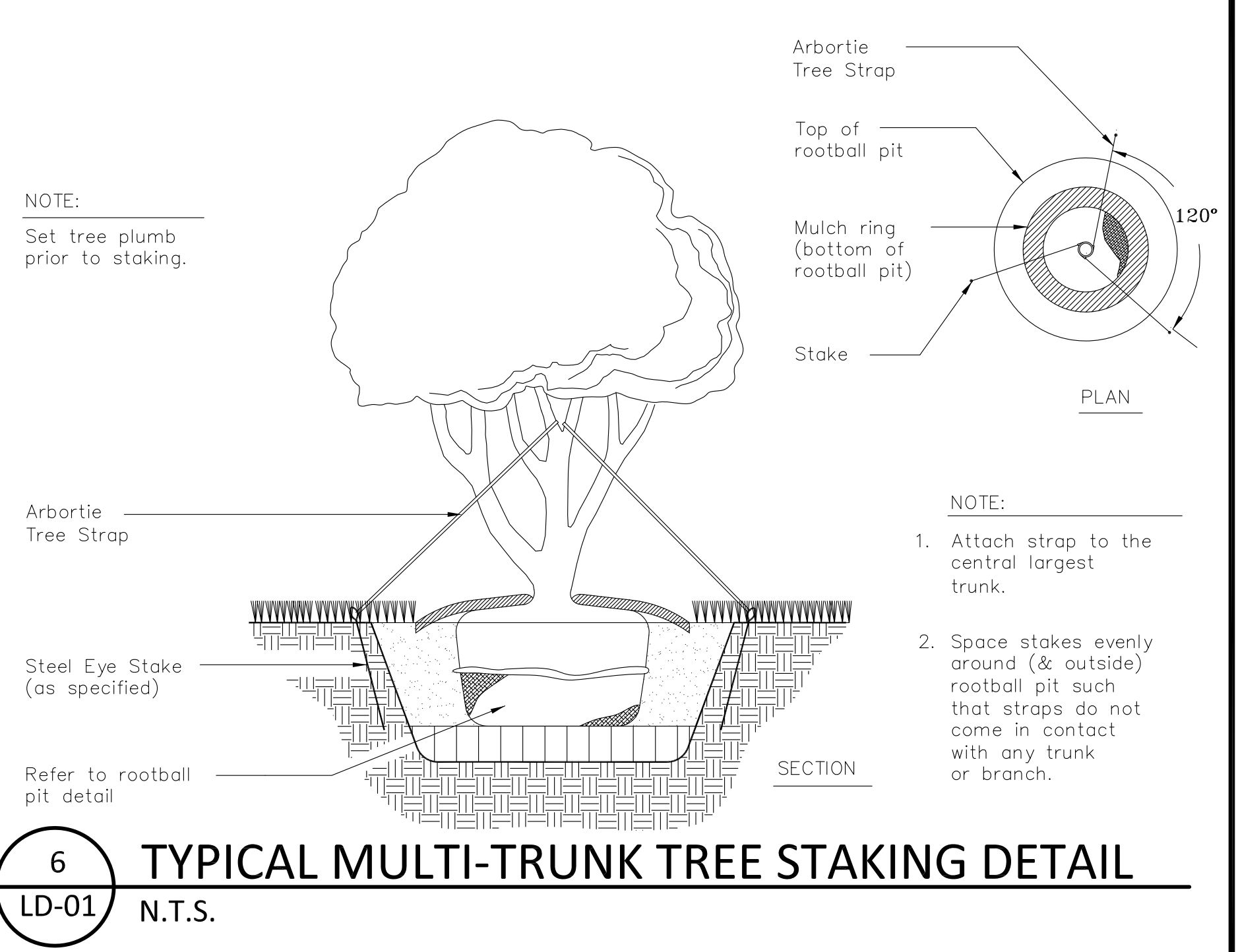
3 GROUNDCOVER PLANTING DETAIL
LD-01 SCALE: 1" = 1'-0"



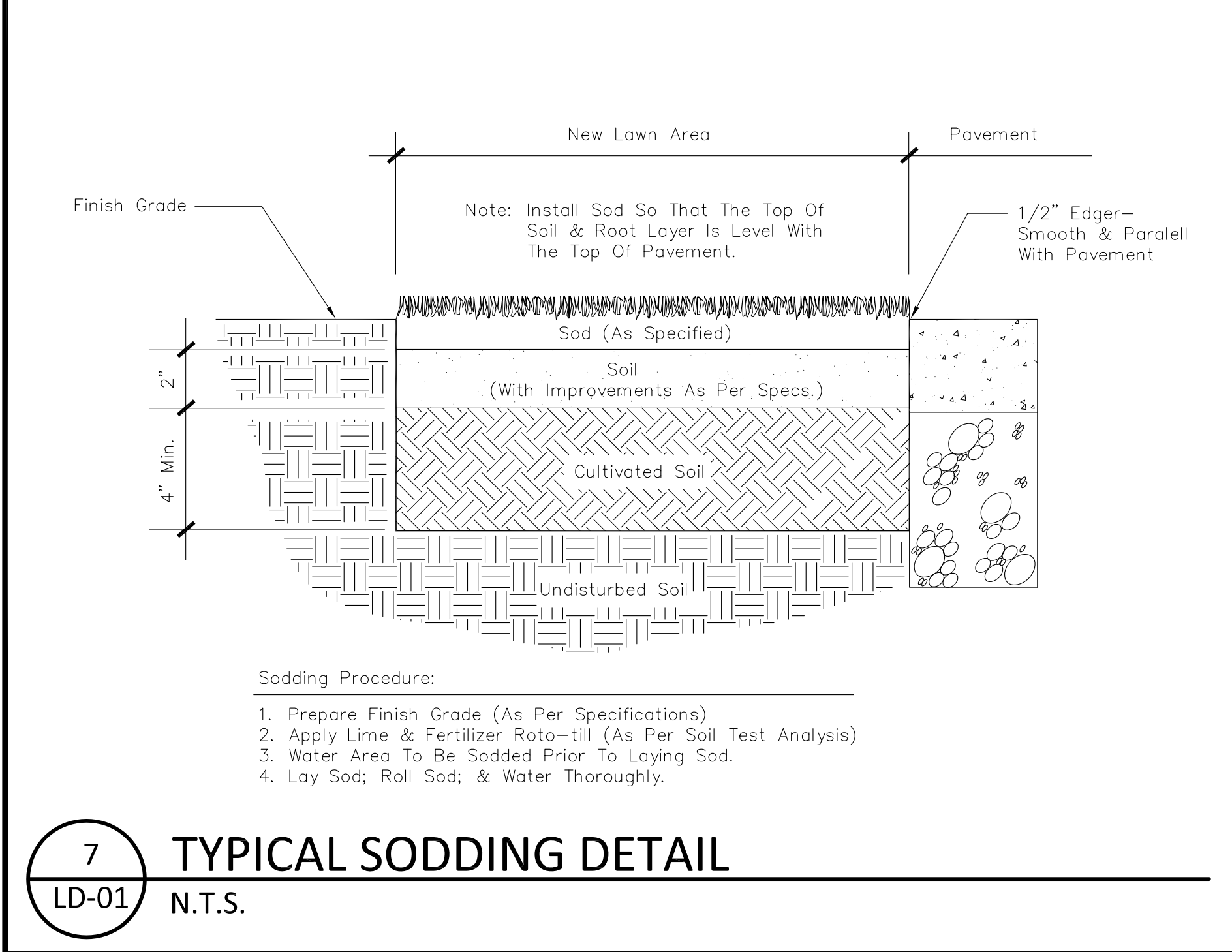
4 PLANT SPACING DIAGRAM
LD-01 SCALE: NTS



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



6 TYPICAL MULTI-TRUNK TREE STAKING DETAIL
LD-01 N.T.S.



7 TYPICAL SODDING DETAIL
LD-01 N.T.S.

KEY	QTY	KEY	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	CALIPER	ROOT	REMARKS
TREES									
UPE	88	UPE	Ulmus parvifolia 'Emer l'	Athena Classic Elm	10'		3"	B&B	Stong central leader
Sub	88								
GROUNDCOVERS									
Hs	307	Hs	Hemerocallis x 'Happy Return'	Happy Return Daylily		18"		1 gal.	Full, Vigorous, Reblooming variety only
Lm	1,253	Lm	Liriope muscari 'Big Blue'	Big Blue Liriope		12"		1 gal.	Full, Vigorous
Sub	1,560								
TURFGRASSES									
	2521 SY		Zoysia japonica 'Meyer' sod	Meyer Zoysia (sod)				SY	Weed free
MULCH									
	132			Pine Straw				Bale	Clean, Debris Free

PLANT SCHEDULE

KAIZENCOLLABORATIVE

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CARROLLTON, GA 30117
FAX (770) 894-1005
EMAIL: mailbox@georgiandwest.com



REVISION	DATE	DESCRIPTION

KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

LaGRANGE THREAD
PHASE 3
LaGRANGE, GA



LANDSCAPE DETAILS

SCALE:	1"=30'
DATE:	MARCH 22, 2018
SHEET NAME:	LD-01

GRADE VARIES. FIELD VERIFY TO ENSURE POSITIVE DRAINAGE.

2'-0" MIN. CLEAR, UNOBSTRUCTED SHOULDERS. REMOVAL OF EXISTING LARGE TREES OR OTHER VERTICAL STRUCTURES TO BE FIELD DETERMINED BY CONSTRUCTION MANAGER.

2' SHOULDERS TO BE SEEDED WITH APPROVED SPECIES GRASSES.

HYDROSEED ALL DISTURBED AREAS.

WIDTH VARIES
MIN. 1% SLOPE
MAX. 2% SLOPE

2'

2'

5"

5" THICK CLASS 'A' CONCRETE TRAIL WITH MEDIUM BROOM FINISH.

SUBGRADE COMPACTED TO 95% STANDARD PROCTOR. POSSIBLE UNDERCUT AND BACKFILL MAY BE REQUIRED WHEN SUBSURFACE CONDITIONS WARRANT.

NOTE:

CONTRACTOR IS RESPONSIBLE FOR PRUNING AND TRIMMING TREES WITHIN THE TRAIL CLEAR ZONE TO THE STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). FOR MORE INFORMATION PLEASE REVIEW:
http://www.treesaregood.com/treecare/pruning_mature.aspx

The diagram illustrates a cross-section of a trail. On the left, a tree is shown with its trunk and branches. A horizontal line represents the trail surface. A vertical double-headed arrow indicates a 10' height from the trail surface to the top of the tree canopy, labeled 'CLEAR ZONE:'. Below the trail surface, a horizontal line represents the 'PATH TRAIL'. A vertical double-headed arrow indicates a 2' minimum height from the path trail to the trail surface. The area between the path trail and the trail surface is labeled 'REFER TO PLANS FOR TRAIL WIDTH'. The area to the right of the path trail is labeled 'EXISTING / FINAL GRADE'.

CLEAR ZONE:

ALL VEGETATION MUST BE REMOVED WITHIN 10' VERTICAL HEIGHT OF THE TRAIL AND 2' ON EITHER SIDE (TYP.)

10'

2' MIN.

REFER TO PLANS FOR TRAIL WIDTH

2' MIN.

EXISTING / FINAL GRADE

PATH TRAIL

Diagram illustrating the cross-section of a road with a sidewalk and lane markings.

Dimensions and Components:

- Trail Width:** 12' TYP. TRAIL WIDTH
- Lane Width:** LANE WIDTH (L)
- Gap between Trail and Lane:** 2' (TYP.)
- Lane Markings:** L / 2' (repeated for each lane)
- Handicap Accessible Ramp or Flush Curb:** Refer to Plans
- Sidewalk Structure:**
 - 8" MIN. OR WIDTH OF SIDEWALK, WHICHEVER IS GREATER (BUT NOT MORE THAN 1' BEYOND)
 - 8" SOLID WHITE
 - 8" GAP (TYP.)
 - 8" SOLID WHITE

SAW CUT EXISTING ASPHALT TO PROVIDE CLEAN TRANSITION TO PROPOSED CONCRETE

SAW CUT CONTROL JOINT AT LEAST 1/4 DEPTH OF SLAB ACROSS ENTIRE WIDTH OF TRAIL. CONTRACTOR REQUIRED TO REMOVE SAW DUST AFTER CUTTING.

EXPANSION JOINTS TO BE LOCATED ALONG TRAIL EVERY 100'

VARIES

COMPACTED SUBGRADE 95% STD. PROCTOR

LOCATE FENCE OUTSIDE OF CRITICAL ROOT ZONE

PLAN

4' HT. ORANGE WARNING FENCE

2"X4" P.T. STAKE @ 8' O.C.

4'

2' MIN.

[illegible]

4' TYP.

EQ. TO TRAIL WIDTH

EQ. TO TRAIL WIDTH

EQ. TO TRAIL WIDTH

EQ. TO TRAIL WIDTH

REFER TO PLANS

SAW CUT 1/4" TO EACH SIDE OF THE 4" TRAIL CENTER LINE PRIOR TO SANDBLAST.

SAW CUT CONTROL JOINT

PROPOSED CONCRETE TRAIL

NOTE:
 1. SANDBLAST CENTERLINE CONCRETE ADMIXTURE.
 2. CONTRACTOR TO DO A SANDBLASTING DEPTH

WIDTH VARIES
MIN. 1% SLOPE
MAX. 2% SLOPE

6"

8" THICK CLASS 'A' CONCRETE TRAIL
WITH MEDIUM BROOM FINISH

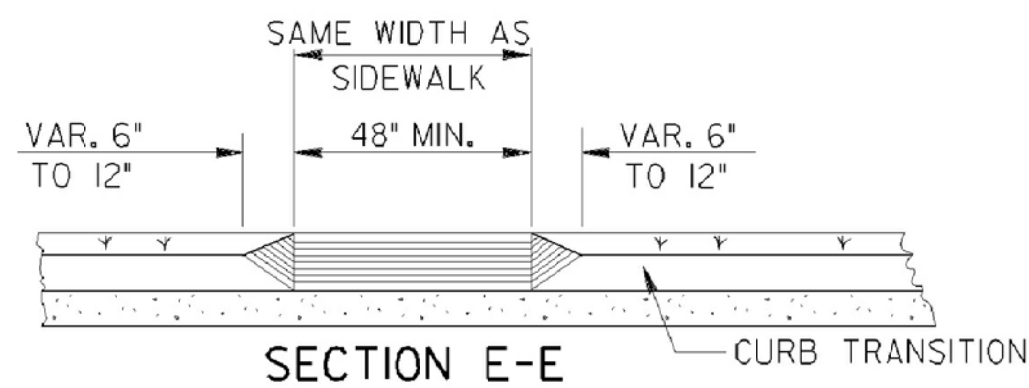
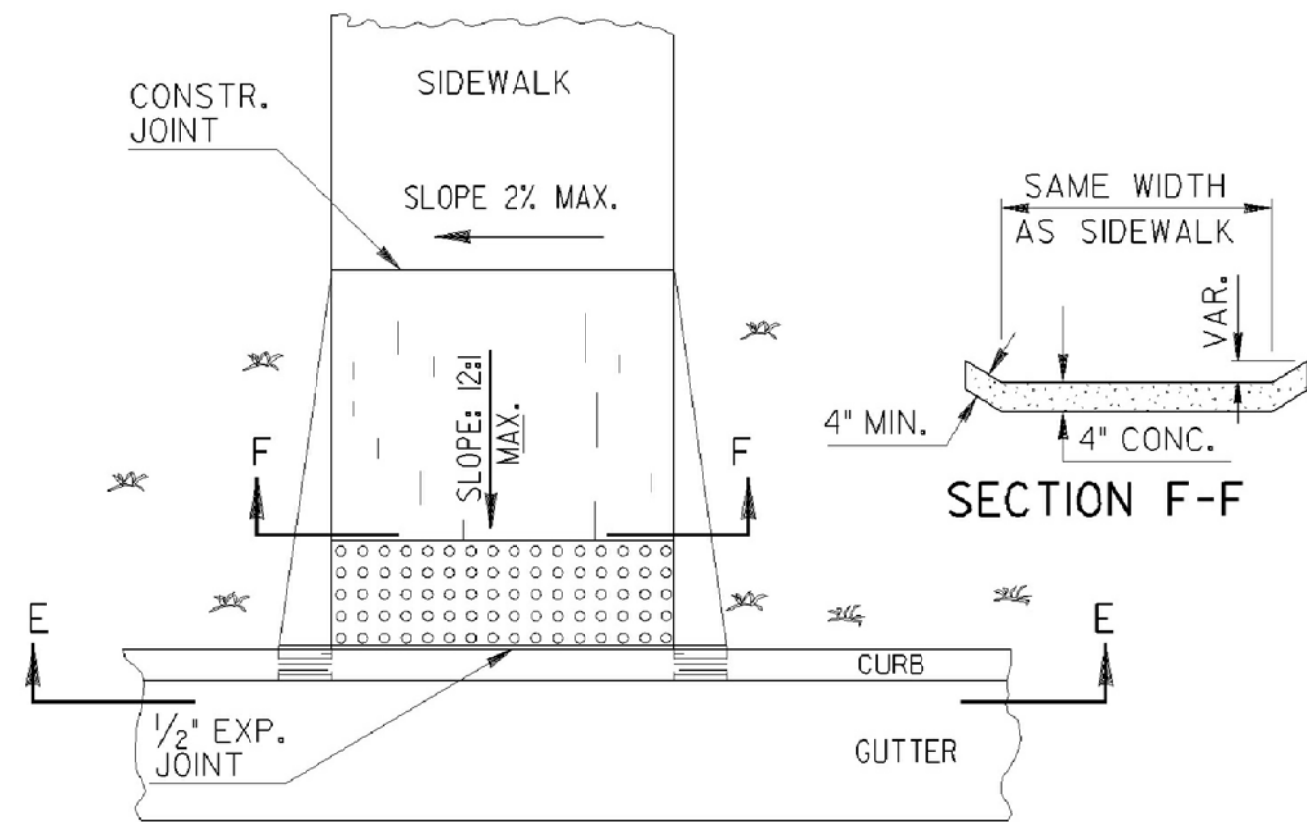
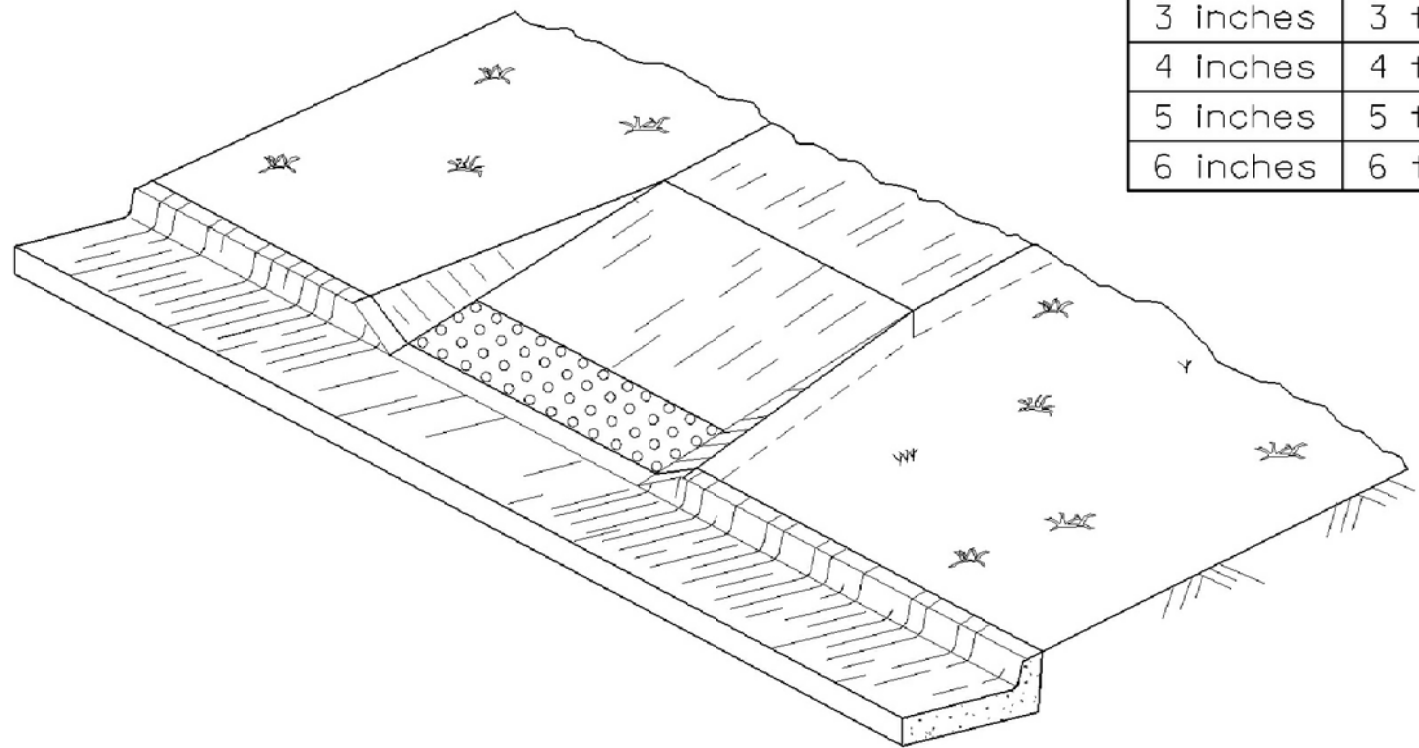
SAW CUT EXISTING PAVING TO PROVIDE CLEAN
TRANSITION TO PROPOSED CONCRETE

SUBGRADE COMPACTED TO 95% STANDARD PROCTOR.
POSSIBLE UNDERCUT AND BACKFILL MAY BE REQUIRED
WHEN SUBSURFACE CONDITIONS WARRANT.

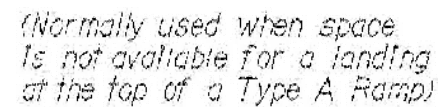
SHEET NAME: **CD-01**

(Normally used when the sidewalk
ties directly into the crosswalk)

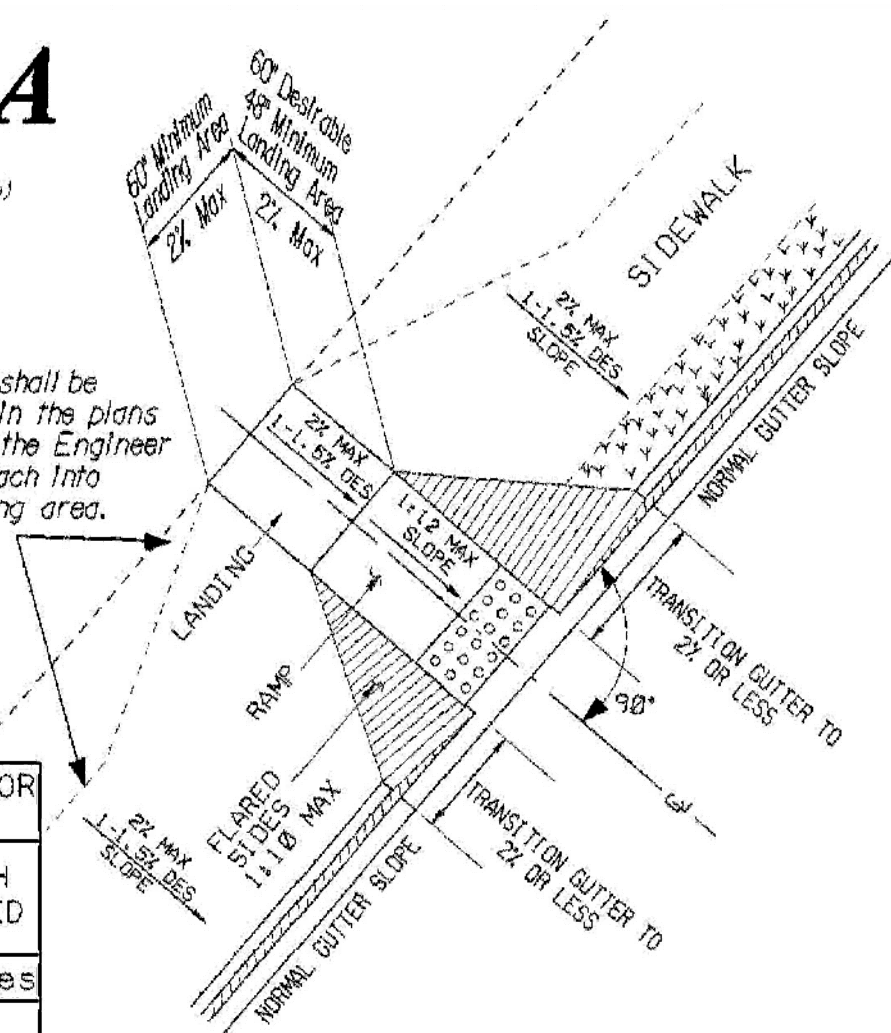
LENGTH REQUIRED FOR A 1:2 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	1 foot
2 inches	2 feet
3 inches	3 feet
4 inches	4 feet
5 inches	5 feet
6 inches	6 feet



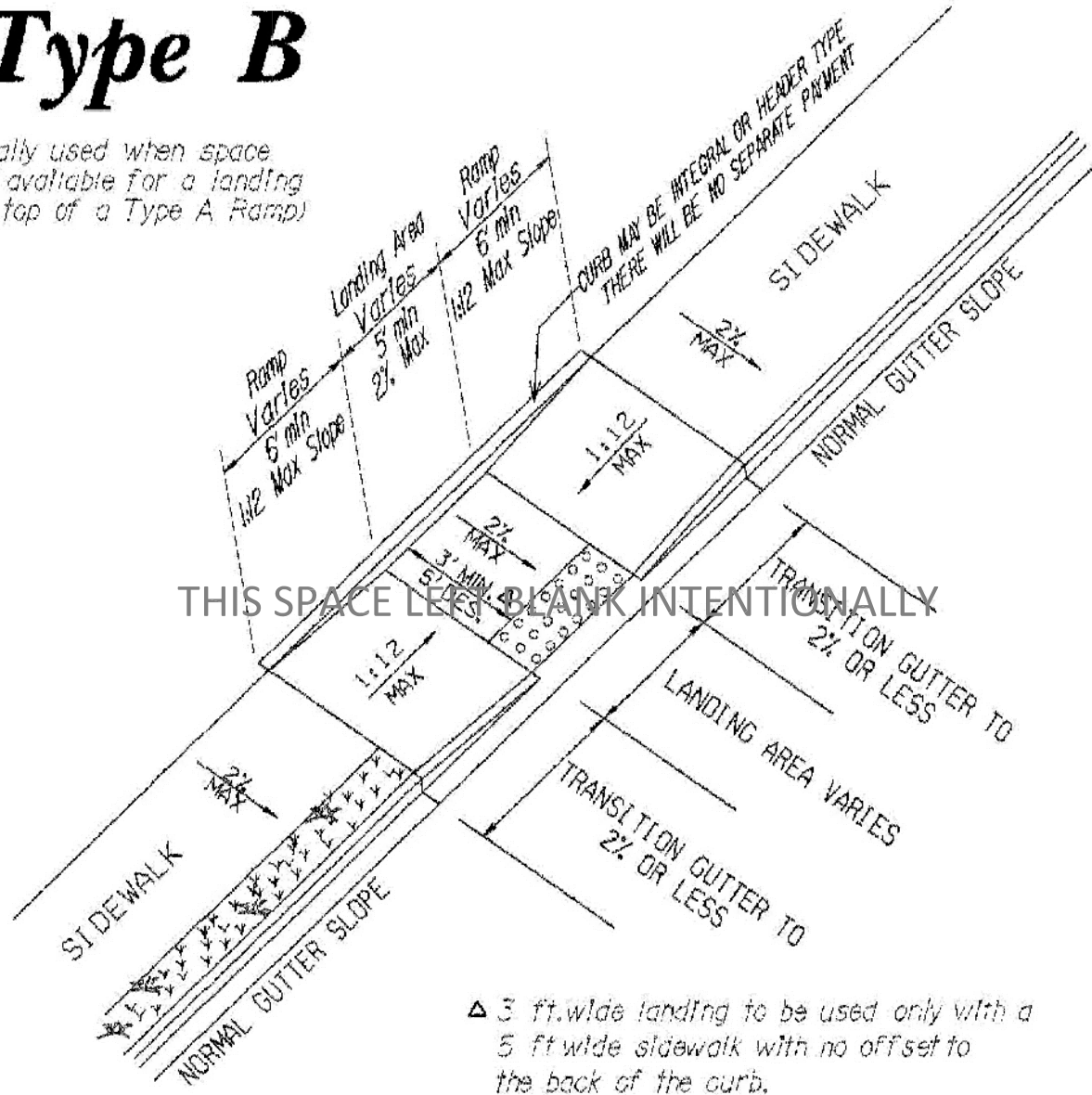
1	GDOT HANDICAP RAMP TYPE 'D'
CD-02	N.T.S.



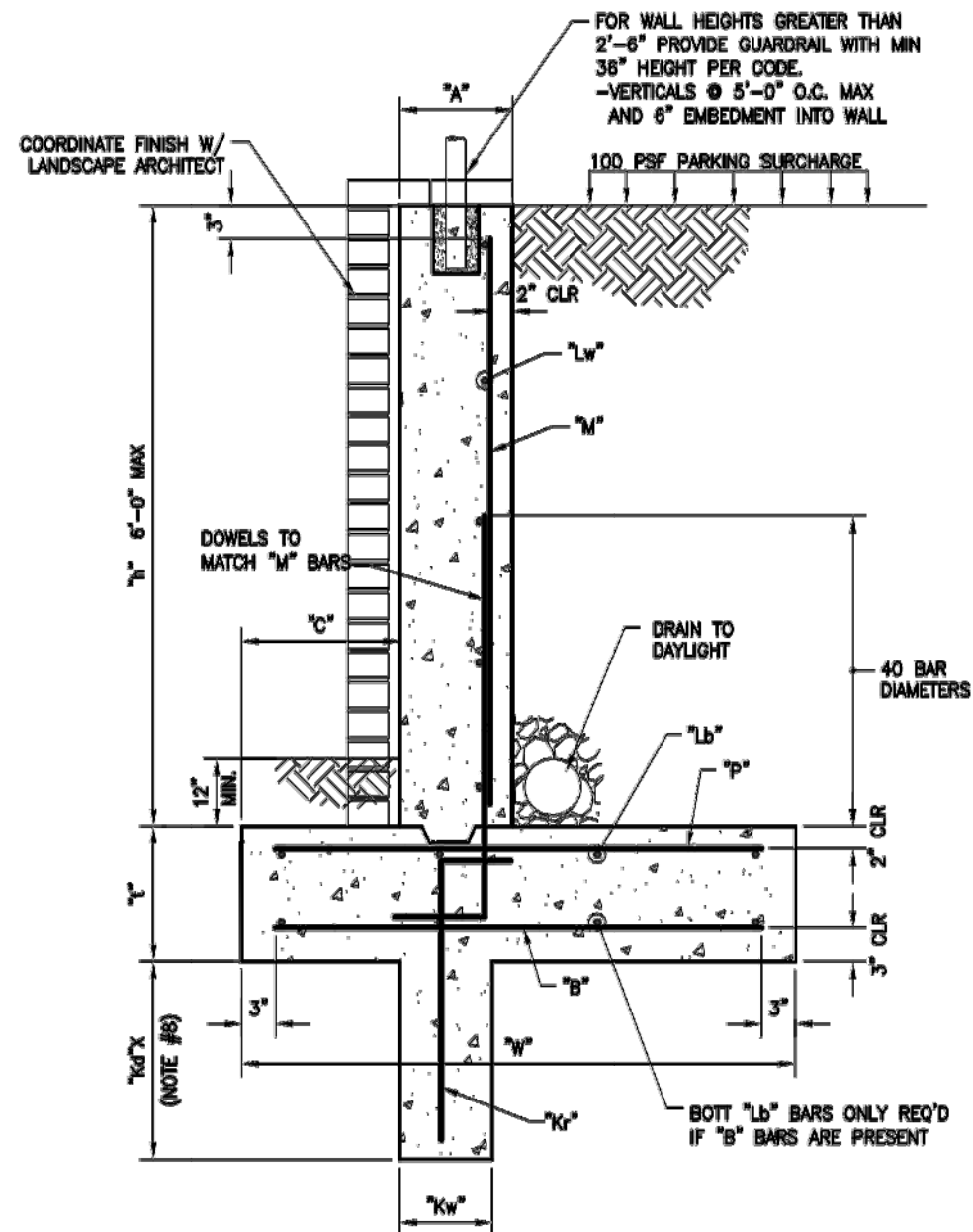
LENGTH REQUIRED FOR A 110 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	10 inches
2 inches	1'-8"
3 inches	2'-6"
4 inches	3'-4"
5 inches	4'-2"
6 inches	5 feet



4	GDOT HANDICAP RAMP TYPE 'A'
CD-02	N.T.S.



5	GDOT HANDICAP RAMP TYPE 'B'
CD-02	N.T.S.



h	A	W	C	t	M	Lw	Lb	P	B	Kd	Kw	Kr
ft	in	ft-in	ft-in	in						in	in	
2-4	8	2-5	0-8	12	#4012	#4012	3#4	N/A	#4024	12	12	#4018
4-6	8	4-0	1-0	12	#4012	#4012	4#4	N/A	#4024	18	12	#4018

NOTES:

1. MIN. CONCRETE STRENGTH, $f'_c = 3000$ psi @ 28 DAYS
2. STEEL REINFORCING, $f_y = 60,000$ psi
3. ASSUMED SOIL PROPERTIES, $\gamma = 110$ pcf, $\mu = 0.30$, $P_a = 40$ psf
4. 100PSF SURCHARGE BACKFILL & PARKING
5. FLAT BACKFILL
6. SOIL ALLOWABLE BEARING PRESSURE = 2000 psf
7. SEE SITE PLAN FOR WALL HEIGHTS AND LOCATIONS.
8. ADJUST FOOTING DEPTH AS REQ'D FOR SITE UTILITIES & DRAINAGE.

1
SK-1

CANTILEVER SITE WALL SCHEDULE FOR WALL HEIGHT ≤ 6
SCALE: N.T.S.

SITE RETAINING WALL SCHEDULE

**S^e STABILITY
ENGINEERING**

1376 Church St., STE 200, Decatur, GA 30030 Ph/Fax: 404-377-9316



LaGRANGE THREAD

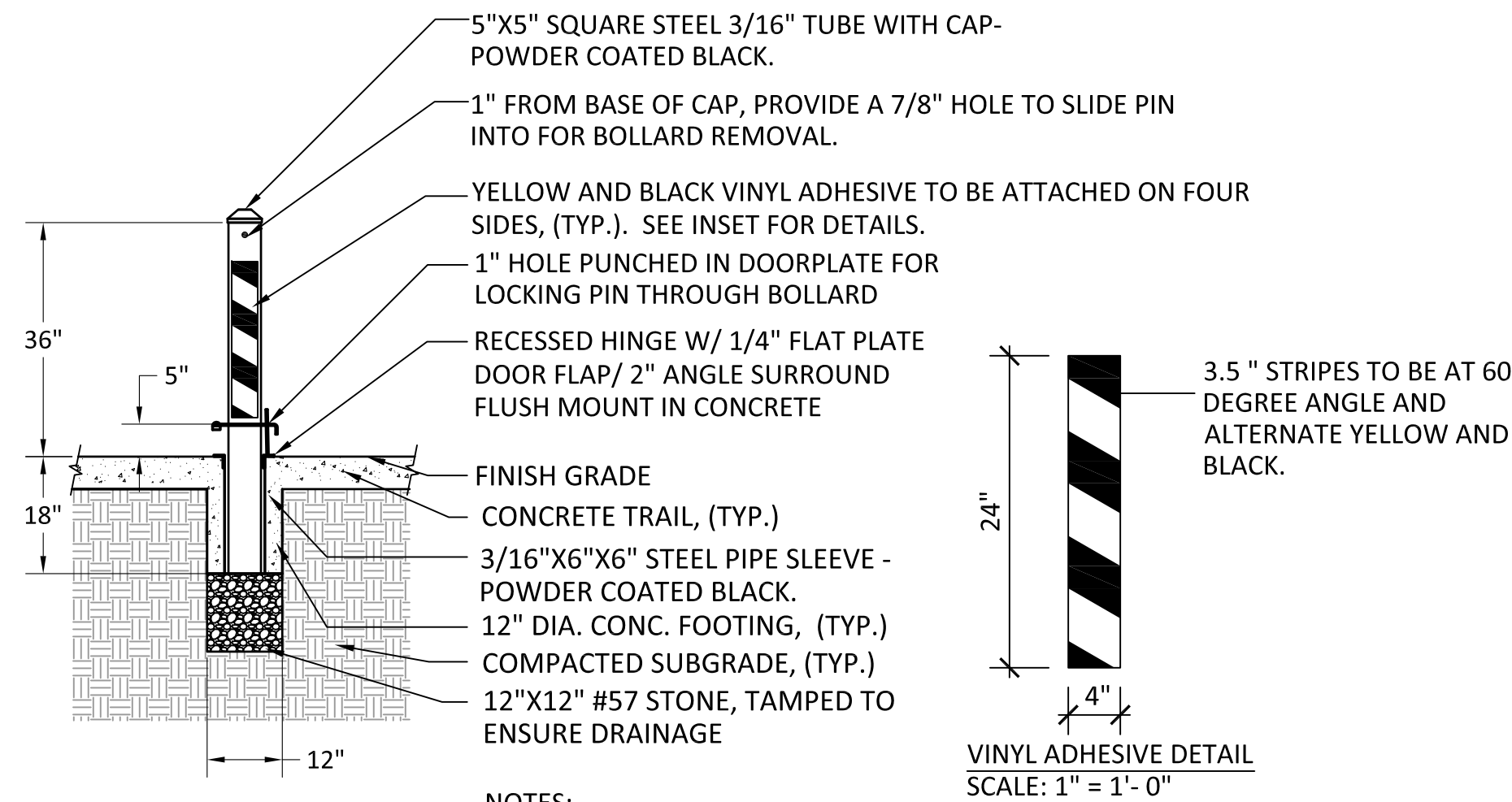
PHASE 3

SCALE: N.T.S.	DATE: 03/20/18	DRWN BY: BE
STABILITY NUMBER: SK-1.0		
	SHT 1 OF 1	REV

NOTES:

1. RETAINING WALL TO BE CLAD WITH BRICK VENEER. COLOR TO MATCH EXISTING BRICK AT PNC BANK PROPERTY.
2. CONTRACTOR TO PROVIDE BRICK VENEER SAMPLES FOR COLOR APPROVAL BY THE CITY OF LaGRANGE PRIOR TO CONSTRUCTION.

2 RETAINING WALL DETAIL
CD-02 N.T.S.

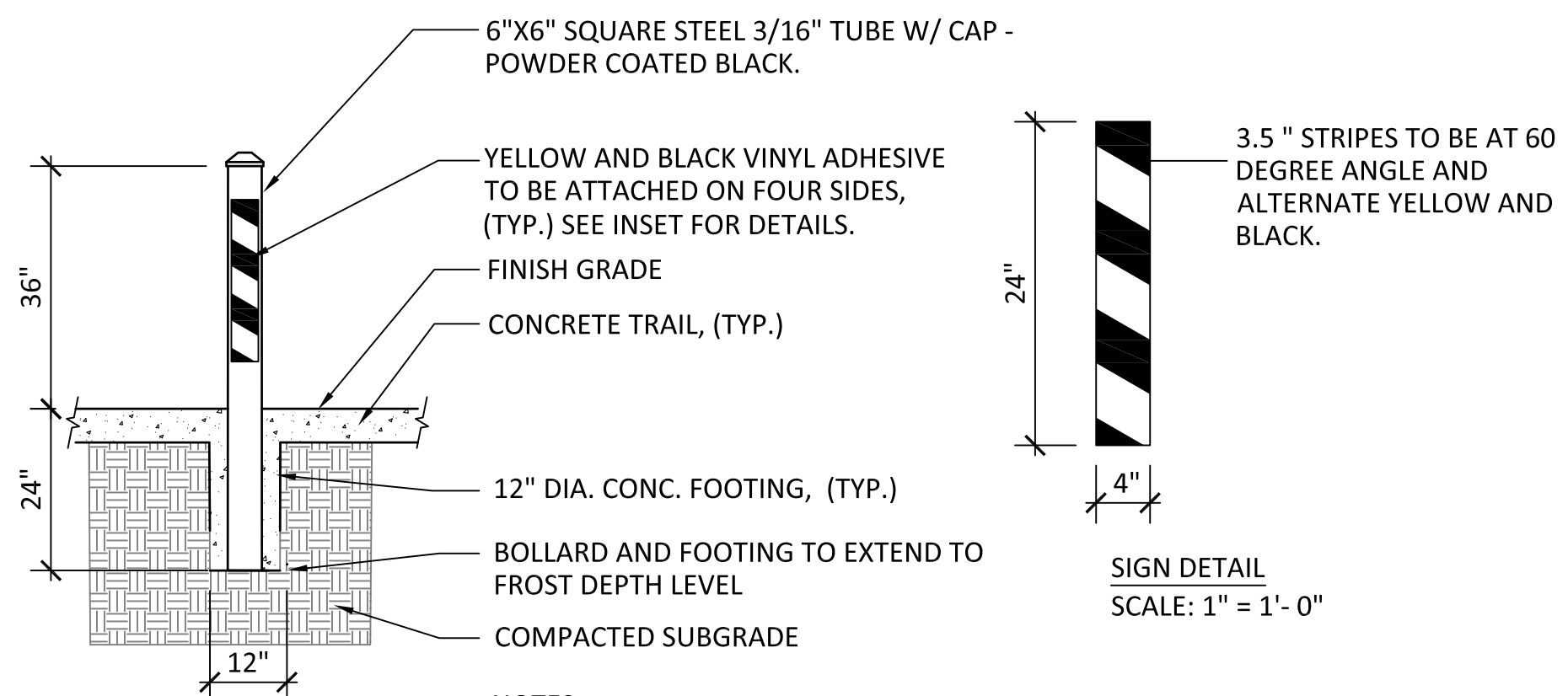


NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. ALL METAL TO BE POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
3. VINYL ADHESIVE TO BE 3M 3930 HIGH INTENSITY REFLECTIVE VINYL WITH 3M 1160 OVER LAMINATE.

3 REMOVABLE DOOR PLATE BOLLARD

CD-02 SCALE: 1/2" = 1'-0"



NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. VINYL ADHESIVE TO BE 3M 3930 HIGH INTENSITY REFLECTIVE VINYL WITH 3M 1160 OVER LAMINATE.

6
CD-02

FIXED STEEL BOLLARD

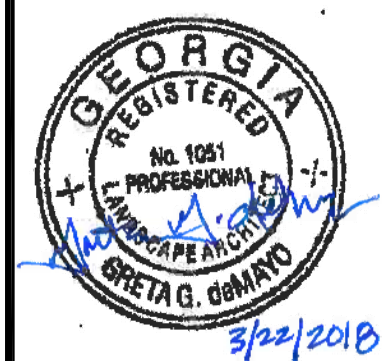
SCALE: 1/2" = 1'-0"

[illegible]

KAIZEN PROJECT # 2017 - 136

PROJECT MANAGER	GGD
-----------------	-----

**LaGRANGE
THREAD PHASE 3
LaGRANGE, GA**



CONSTRUCTION DETAILS

SCALE: VARIES

DATE: MARCH 22, 2018

SHEET NAME: **CD-02**



SHEET NAME: **CD-03**



N.T.S.

CD-04

KAIZEN COLLABORATIVE

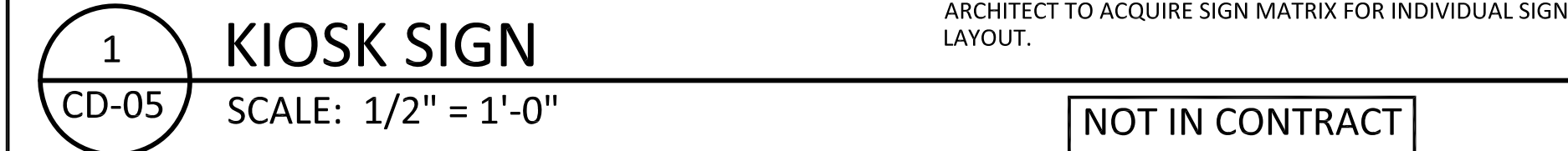
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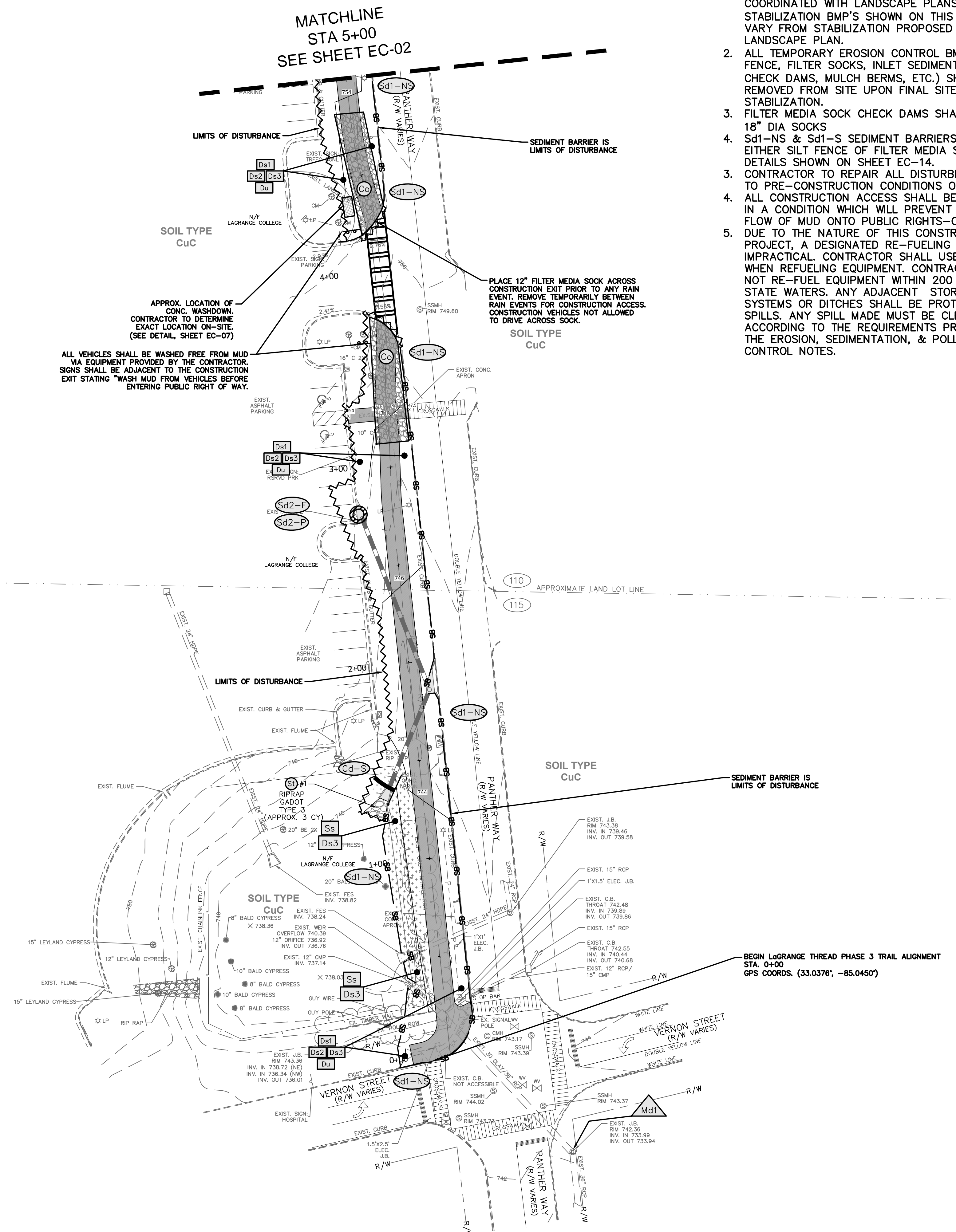
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CARROLLTON, GA. 30117
OFFICE (770) 834-4694
FAX (770) 834-1005

105 CORPORATE DRIVE
CARROLLTON, GA. 30117

E-MAIL: mailbox@georgiaandwest.com



REVISION	DATE	DESCRIPTION
KAIZEN PROJECT #	2017 - 136	
PROJECT MANAGER	GGD	
<div style="text-align: center;">LaGRANGE THREAD PHASE 3 LaGRANGE, GA</div>		
		
<div style="text-align: center;">CONSTRUCTION DETAILS</div>		
SCALE:	VARIES	
DATE:	MARCH 22, 2018	
SHEET NAME:	CD-05	



- NOTES:
1. 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.
 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
 4. Sd1-NS & Sd1-S SEDIMENT BARRIERS MAY BE EITHER SILT FENCE OF FILTER MEDIA SOCK AS PER DETAILS SHOWN ON SHEET EC-14.
 3. CONTRACTOR TO REPAIR ALL DISTURBED SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
 4. ALL CONSTRUCTION ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY.
 5. 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.

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 NOT WITHIN 200' (FEET) OF STATE WATERS TOTAL SITE AREA 2.83 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL) DISTURBED AREA 2.0 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 PLACE 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!
11. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
12. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
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 ESB&PC 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

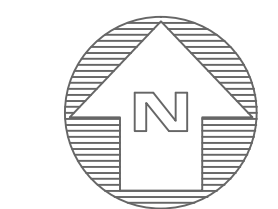
PRIMARY PERMITTEE:
CITY OF LAGRANGE, TROUP COUNTY,
GEORGIA
ATTN: MEG KELSEY
200 RIDLEY AVENUE
LAGRANGE, GA 30240
706-883-2016



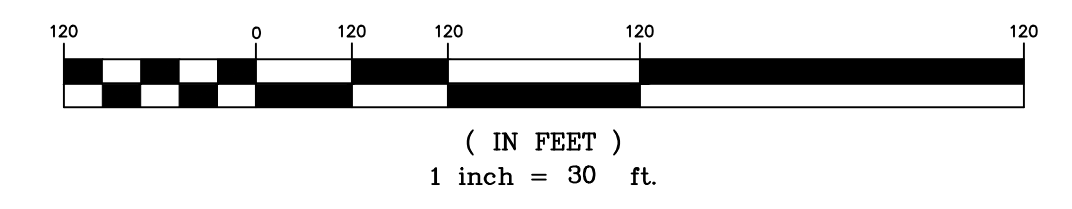
CONSTRUCTION MANAGEMENT

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.



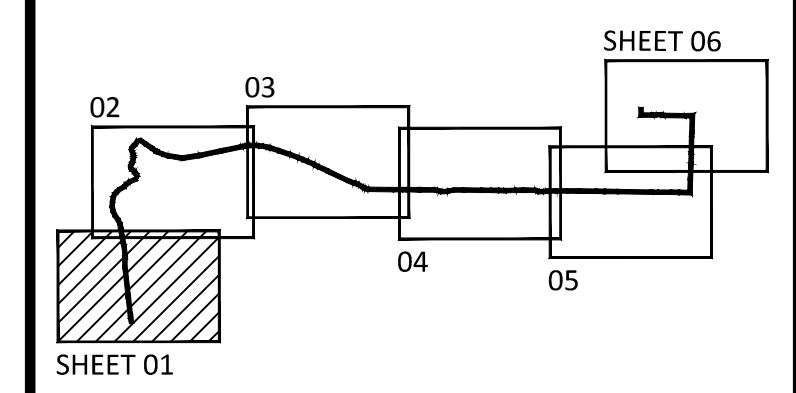
GRAPHIC SCALE



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CARROLLTON, GA 30117 FAX (770) 834-1005
E-MAIL: mailbox@georgiawest.com



Key Map North

REVISION	DATE	DESCRIPTION

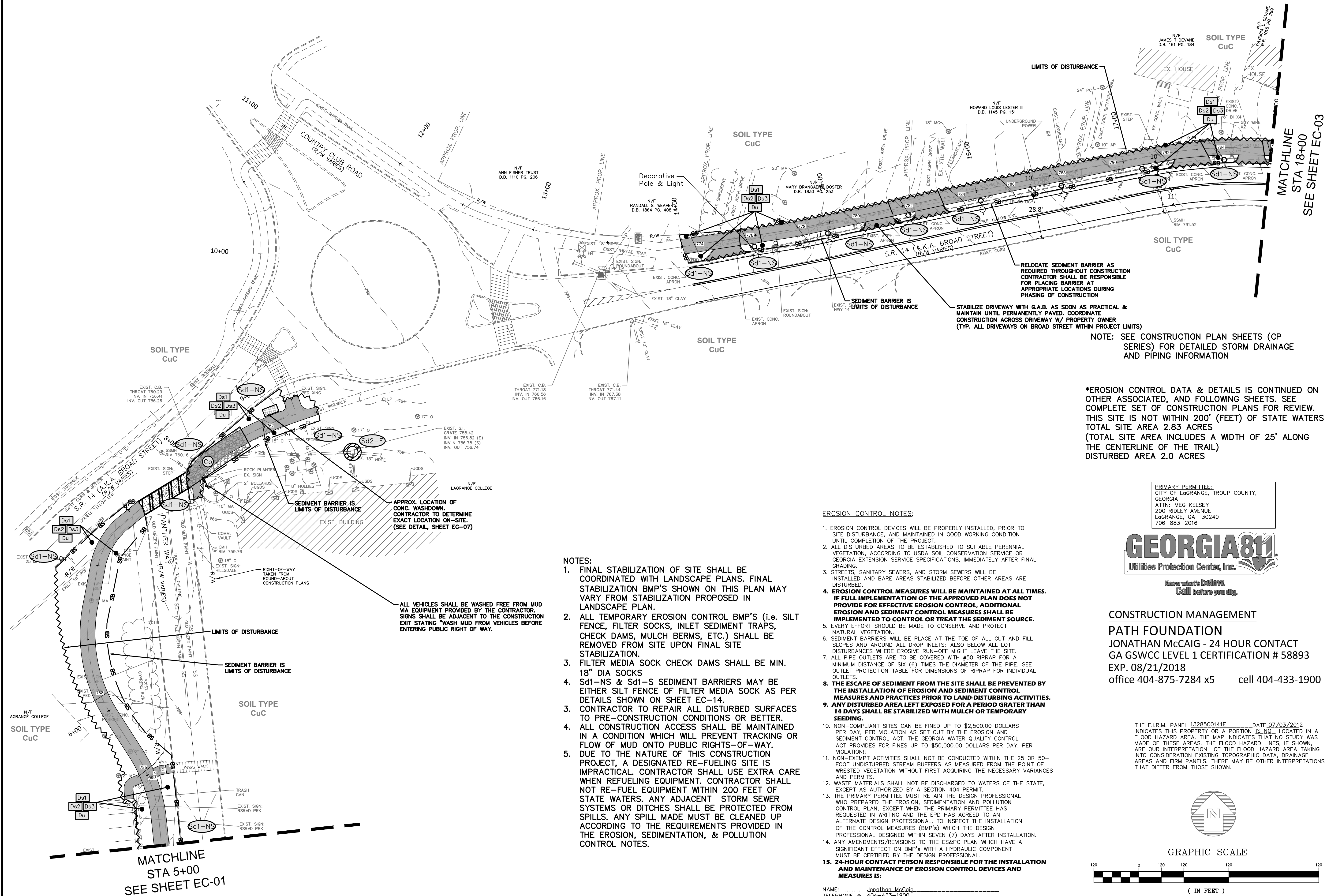
KAIZEN PROJECT # 2017 - 136
PROJECT MANAGER GGD

**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**



EROSION CONTROL PLAN

SCALE:	1"=30'
DATE:	03-22-2018
SHEET NAME:	EC-01



- NOTES:
- 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.
 - 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.
 - FILTER MEDIA SOCK CHECK DAMS SHALL BE MIN. 18" DIA SOCKS
 - SD1-NS & SD1-S SEDIMENT BARRIERS MAY BE EITHER SILT FENCE OF FILTER MEDIA SOCK AS PER DETAILS SHOWN ON SHEET EC-14.
 - CONTRACTOR TO REPAIR ALL DISTURBED SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
 - ALL CONSTRUCTION ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY.
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EROSION CONTROL NOTES:

- EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
- 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.
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- 24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:**

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

*EROSION CONTROL DATA & DETAILS IS CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR REVIEW. THIS SITE IS NOT WITHIN 200' (FEET) OF STATE WATERS. TOTAL SITE AREA 2.83 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL) DISTURBED AREA 2.0 ACRES

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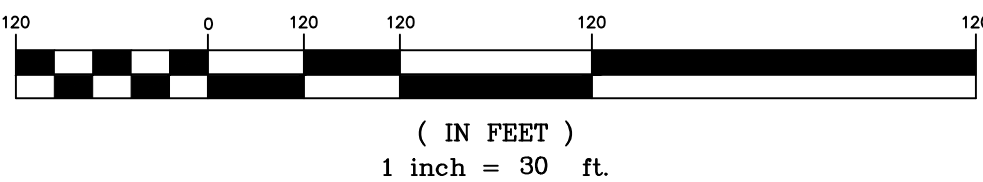
CONSTRUCTION MANAGEMENT

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.



GRAPHIC SCALE

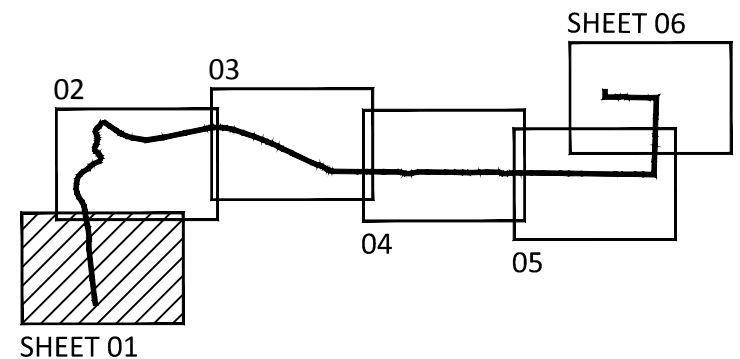


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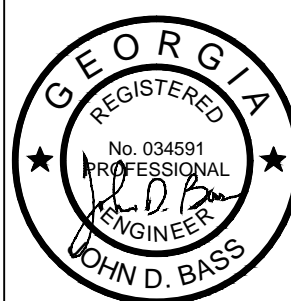


Key Map

REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2017 - 136
PROJECT MANAGER GGD

LaGRANGE THREAD
PHASE 3
LaGRANGE, GA



LEVEL II CERT. #17268
EXPIRES: 09-29-2018

EROSION CONTROL PLAN

SCALE: 1"=30'
DATE: 03-22-2018

SHEET NAME: EC-02

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

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NOTES:

- 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.
- 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.
- FILTER MEDIA SOCK CHECK DAMS SHALL BE MIN. 18" DIA SOCKS
- Sd1-NS & Sd1-S SEDIMENT BARRIERS MAY BE EITHER SILT FENCE OF FILTER MEDIA SOCK AS PER DETAILS SHOWN ON SHEET EC-14.
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NAME: Jonathan McCall
TELEPHONE #: 404-433-1900

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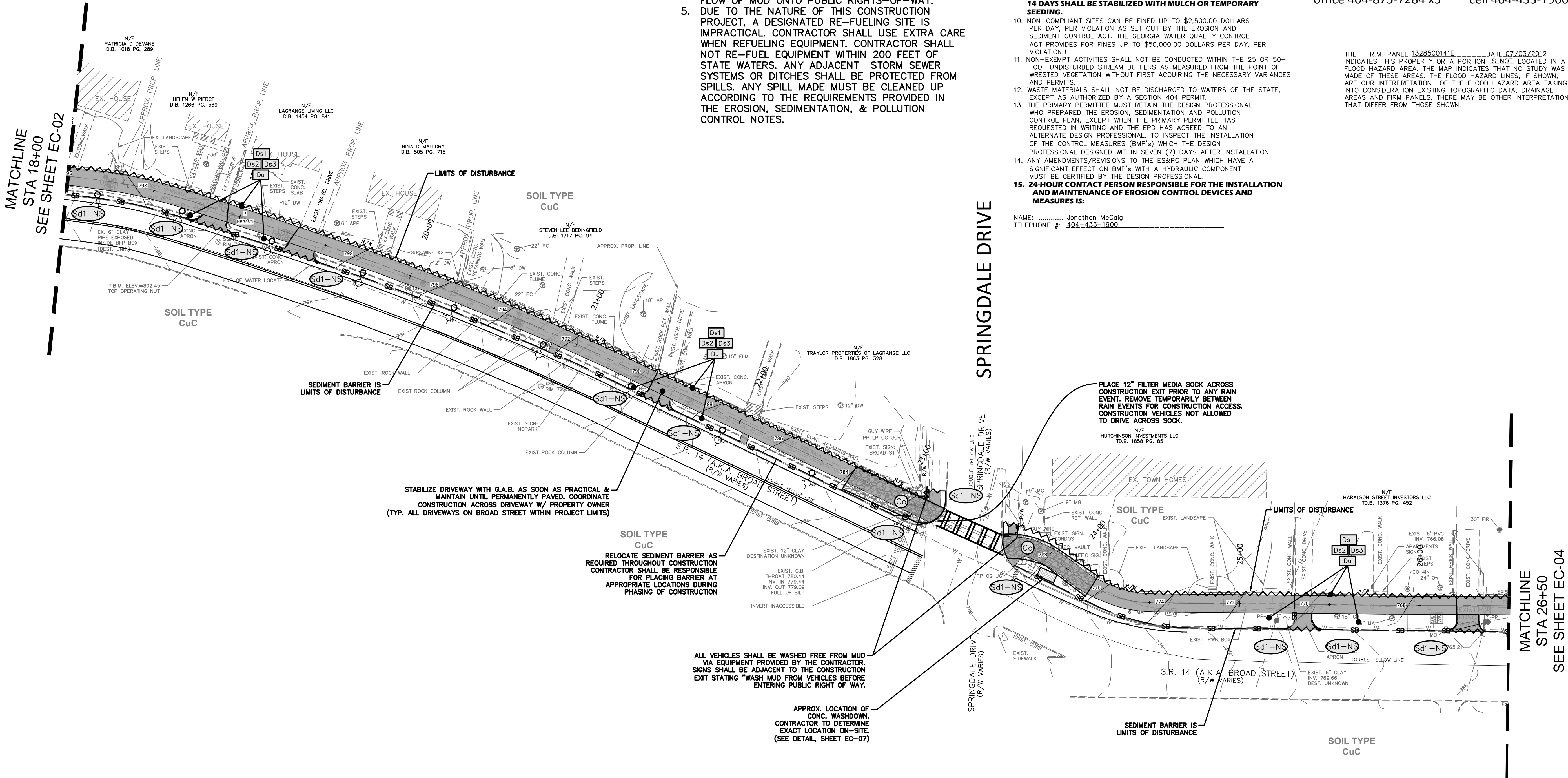


Know what's below.
Call before you dig.

CONSTRUCTION MANAGEMENT

PATH FOUNDATION
JONATHAN McCAIG - 24 HOUR CONTACT
GA GSWCC LEVEL 1 CERTIFICATION # 58893
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office 404-875-7284 x5 cell 404-433-1900

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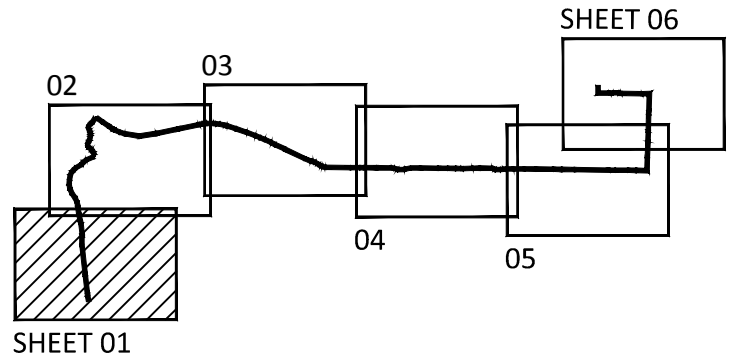


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Key Map



REVISION	DATE	DESCRIPTION

KAIZEN PROJECT # 2017 - 136
PROJECT MANAGER GGD

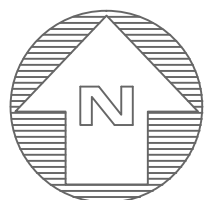
**LaGRANGE THREAD
PHASE 3
LaGRANGE, GA**



EROSION CONTROL PLAN

SCALE: 1"=30'
DATE: 03-22-2018

SHEET NAME: **EC-03**



GRAPHIC SCALE



(IN FEET)
1 Inch = 30 ft.

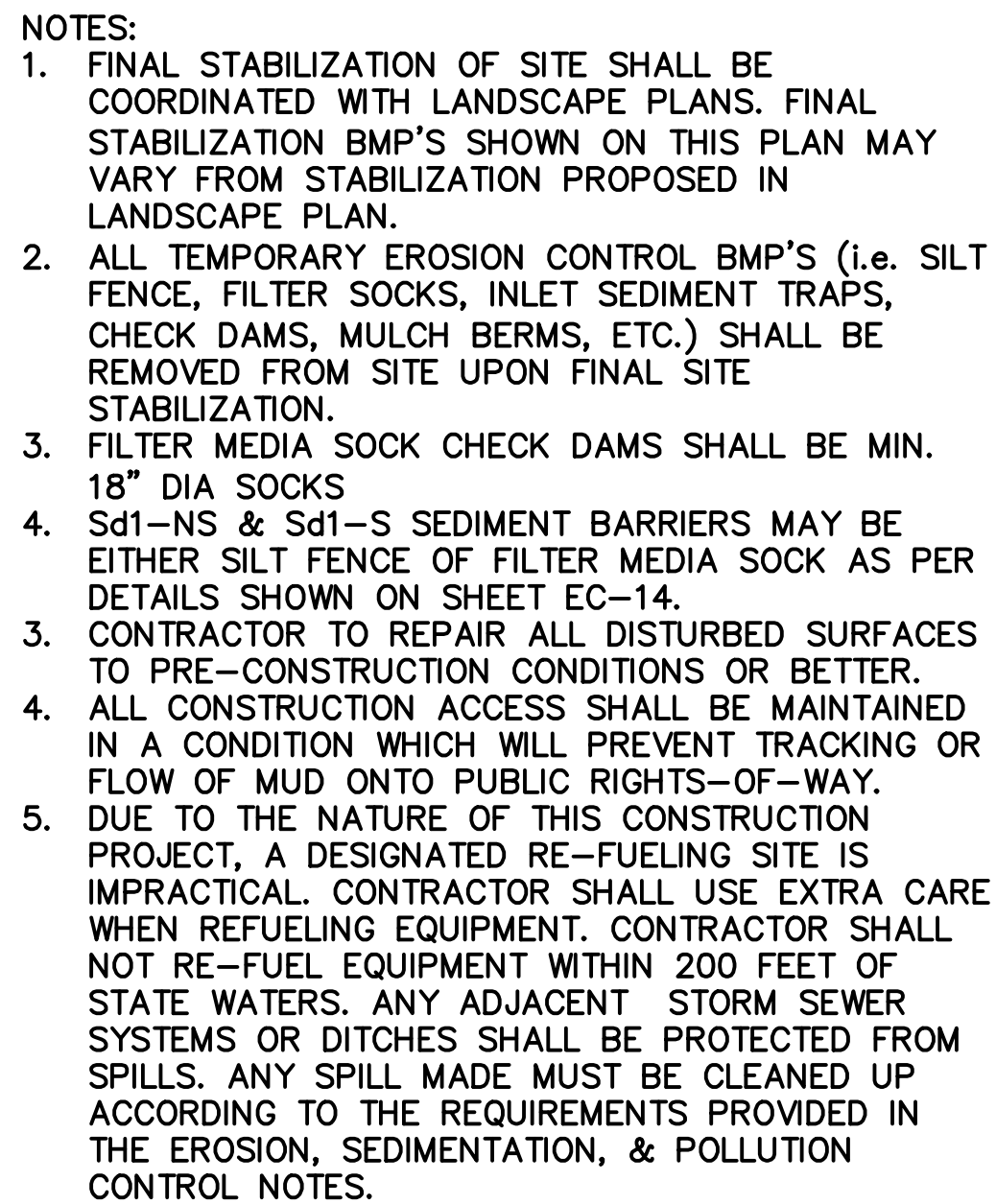
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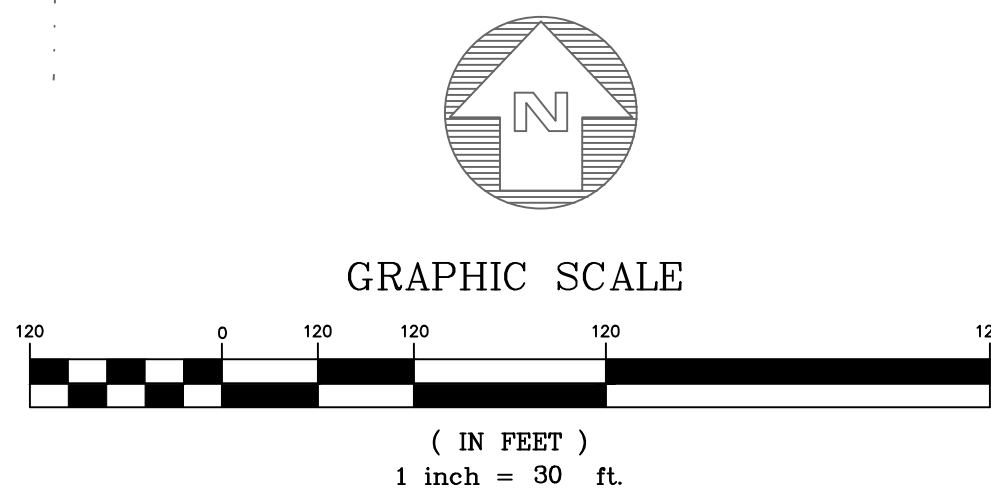
NAME: Jonathan McCaig
TELEPHONE #: 404-433-1900

PATH FOUNDATION
JONATHAN McCAIG - 24 HOUR CONTACT
GA GSWCC LEVEL 1 CERTIFICATION # 58893
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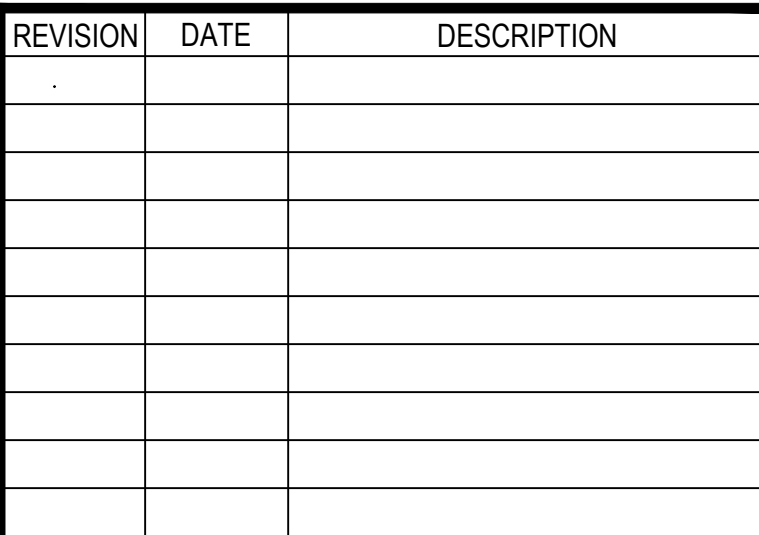


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PROJECT MANAGER	GGD
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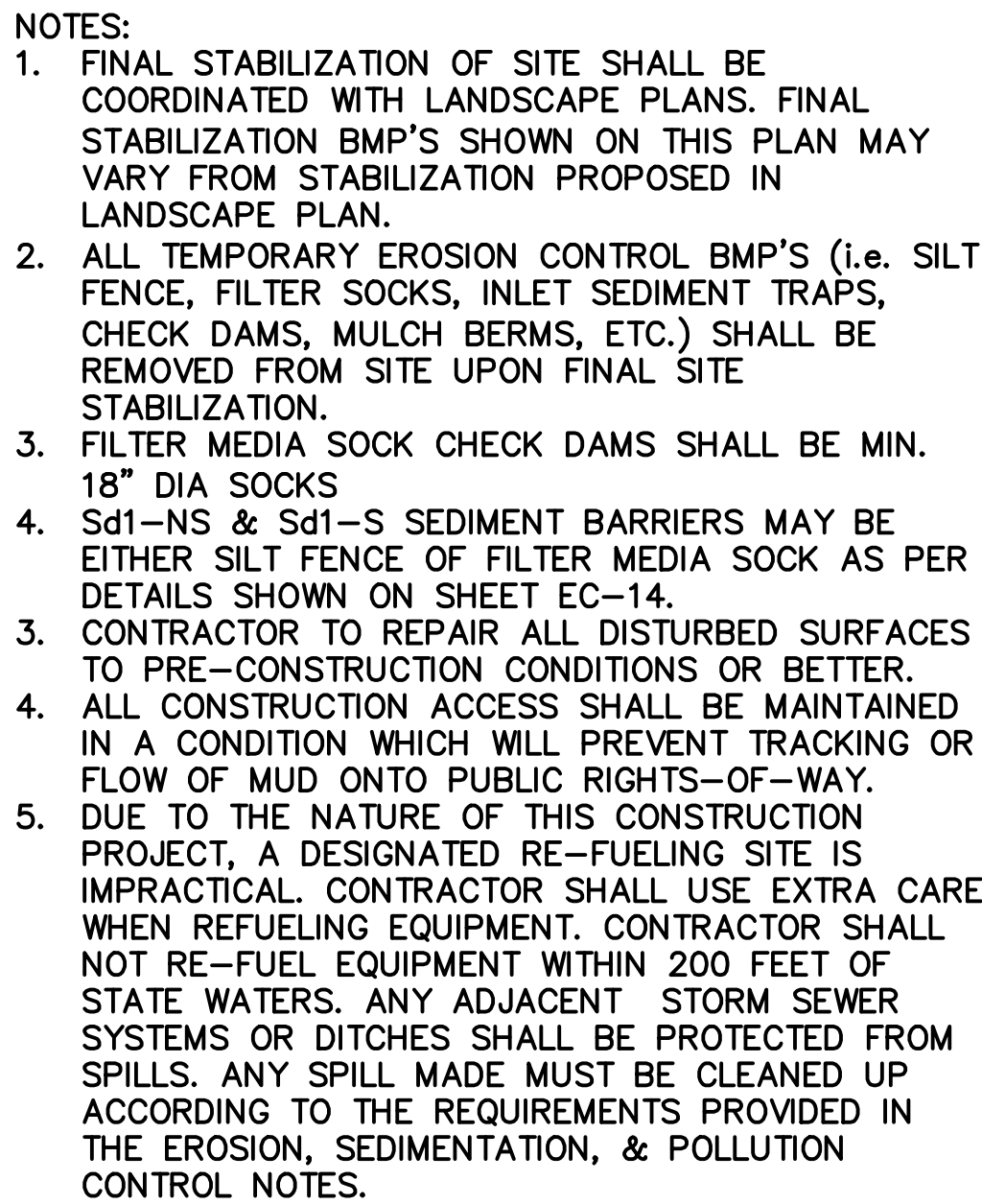
A circular professional engineer seal for the state of Georgia. The outer ring contains the word "GEORGIA" at the top and "JOHN D. BASS" at the bottom, separated by two stars. The inner circle contains the word "REGISTERED" at the top, "ENGINEER" at the bottom, and the number "No. 034591" in the center. A signature, "J.D. Bass", is written across the center of the seal.

DATE: 03-22-2018

EC-04

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NAME: Jonathan McCaig
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(IN FEET)
1 inch = 30 ft

EC-05

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

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

KAIZEN COLLABORATIVE

2390 Main Street | Tucker, GA 30084 | 404.239.2521

GA GEORGIA & WEST, INC.

ENGINEERING • LAND SURVEYING • LAND PLANNING

105 CORPORATE DRIVE
CARROLLTON, GA 30117
E-MAIL: mailbox@georgiaandwest.com

OFFICE (770) 834-4694
FAX (770) 834-1005

DEVELOPMENT REFERENCE:

DESIGN PROFESSIONAL: GEORGIA AND WEST, INC.
105 CORPORATE DRIVE
CARROLLTON, GA 30117
PHONE: (770) 834-4694

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-ERODIBLE 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: 2.83 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL). THE TOTAL DISTURBED AREA: 2.0 ACRES.
7. PERIMETER SEDIMENT CONTROL STRUCTURES ARE SHOWN TO MINIMIZE EROSION & SEDIMENTATION

CLEARING PHASE - PHASE I
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 SCENARIOS 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 ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION TO DISCLOSE THE LOCATION OF ANY ACTIVITY OUTSIDE THE APPROVED LIMITS 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.
1. 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 1/2" & 3/4" IN DIAMETER AND OVERLAP ON A GEOTEXTILE UNDERLAYER. THE STONE SIZE SHOULD 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.
 6. 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:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- 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;
- c. 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.G 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.G.(1)(c) OF THIS PERMIT.

DESIGN PROFESSIONAL'S CERTIFICATION:

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

(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 STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL 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 LESS THAN THAT WHICH WOULD BE 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 MEANS A SIGNED STATEMENT BASED ON FACTS AND KNOWLEDGE KNOWN TO THE ENGINEER AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

JOHN D. BASS, PE GA NO. 34591 DATE 03-22-2018
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #17788

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE 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 INSPECTOR.

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 METHODS 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, INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND 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 CONSTRUCTED 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 ALTERNATE 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.

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

"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."

"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."

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

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 CAREFUL 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 BUFFER AREAS.

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.

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 MADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REPAIRED 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:

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 STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

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 NECESSARY.

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR 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 SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

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

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 BASINS AND DIVERSION DIKES UNTIL PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. WHEN THE SEDIMENT BASINS ARE FULL, THE SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/2 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 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.

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.

PERMIT COVERAGE:

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. 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 1.C.3.1;
 - B. 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 AFTER THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES), EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART 1.C.3.1;
 - C. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT RESIDE 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 IS 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 RESILIENT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY IS BEING CONDUCTED. THE PROJECT SHALL 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 UPSTREAM CONSTRUCTION ACTIVITY THAT IS MAINTENANCE FOR THE ORIGINAL PURPOSE OF THE FACILITY THAT IS PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE AND THE HYDRAULIC CAPACITY IS APPLICABLE. THE CONSTRUCTION ACTIVITY SHOULD, AT A MINIMUM, IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESILIENT SEDIMENTATION CONSISTENT WITH THE REQUIREMENTS OF THE FEDERAL RAILWAY SAFETY ACT AND APPLICABLE REQUIREMENTS OF THE CLEAN WATER ACT.
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 OTHER THAN CONSTRUCTION WHERE:

 - A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME AREA WHERE 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 ACTIVITY IS 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 CONSTRUCTION ACTIVITY IS OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.
3. 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 ENDORSEMENT OF THE PERMIT IS REQUIRED;
 - 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);
 - C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. STORM DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES, AND
 - 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 1:12,400 OR A 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 AND THE 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 STORM WATER DISCHARGE 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.

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 ENDORSEMENT OF THE PERMIT IS REQUIRED;
- 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);
- C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. STORM DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES, AND
- 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.

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 1:12,400 OR A 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 AND THE 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 STORM WATER DISCHARGE 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.

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 ENDORSEMENT OF THE PERMIT IS REQUIRED;
- 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);
- C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. STORM DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES, AND
- 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.

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.

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.

- a. SAMPLE TYPE.

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHOD 8150 (TURBIDIMETRY) 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 COLLECTION FOR IN AND OUT 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.

- a. 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 PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, SAMPLES TAKEN

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 109, 110, 115 of District 6, CITY OF LaGRANGE, TROUP COUNTY, GEORGIA. The magnitude of the entire development contains 2.83 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: NAVD88
TBM: Top F.H. operating nut Elev. 802.45

Flood Insurance Rate Map, Panel 13285C0141E, Dated 07/03/2012, show the site to be in Zone X (areas determined to be outside the 0.2% annual chance floodplain).

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 & JACKSON 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 permanently ceased 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 ceased."

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 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 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 exit 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

1. Quantities of products stored onsite will be limited to the amount needed for the job.
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 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 until 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, shovels, 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 1-800-426-2675.
- 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

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; (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.
2. 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 I.V.D.4.a.(3). These inspections must be conducted until a Notice of Termination is submitted.
3. 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).
4. 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 no 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.
5. 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 I.V.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 of 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 from any construction practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding 75, the value that was selected from Appendix B in Permit No. GAR 100002. The NTU is based upon the disturbed acreage of each monitoring site's drainage basin for the project, plus the surface water drainage area of each monitoring site in square miles, and receiving water which supports warm water fisheries.

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 cleansed thoroughly to avoid contamination. Manual, automatic or rising stage sampling may be utilized.

Sampling Points

There will be 1 storm water sampling location numbered Md1. 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.

- Core 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:

- (a) 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;
- (b) 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;
- (c) At the times 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 the 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 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.

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 Shurling Drive
Macon, GA 31211-3576
(478) 751-6612

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

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, PE GA NO. 34591 DATE 03-22-2018
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 DATE
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

105 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770) 834-4684
FAX (770) 834-1005
E-MAIL: mailbox@georgiandwest.com

REVISION	DATE	DESCRIPTION

KAIZEN PROJECT #	2017 - 136
PROJECT MANAGER	GGD

LaGRANGE THREAD
PHASE 3
LaGRANGE, GA

	<div>REGISTERED NO. 034591 ENGINEER JOHN D. BASS LEVEL II CERT. #17788 EXPIRES: 03-29-2018</div>
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EROSION, SEDIMENTATION
& POLLUTION CONTROL
NOTES

SCALE:	1"=30'
DATE:	03-22-2018

SHEET NAME:	EC-09
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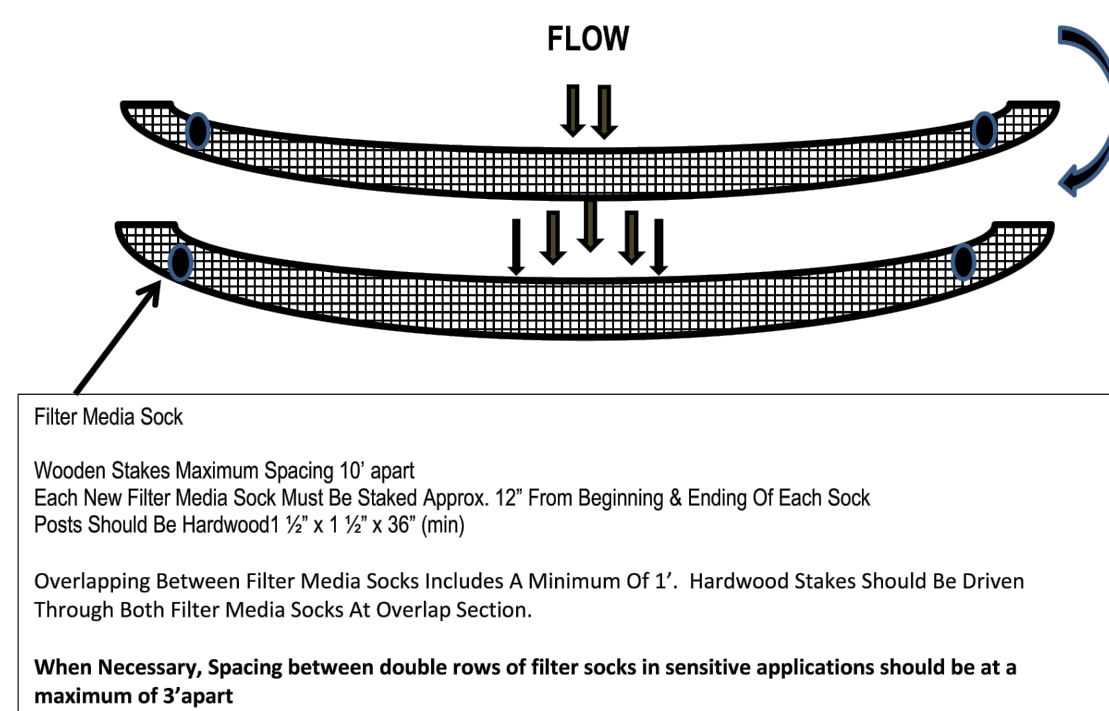


NOTES:

1. ALL AREAS TO BE SEEDED SHALL HAVE LIME APPLIED AT THE RATE OF 90 LBS PER 1000 S.F. LIME & FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
2. ALL SEEDED SHALL HAVE AN APPLICATION OF STRAW MULCH IMMEDIATELY AFTER APPLICATION OF SEED & FERTILIZER, APPROXIMATELY 2 TONS PER ACRE.
3. PERMANENT GRASSING OCT. - JUNE, ALL OTHER MONTHS USE TEMPORARY GRASSING & REPLANT.
4. USE TEMPORARY GRASSING IF INACTIVE DISTURBED AREA IS TO BE EXPOSED FOR MORE THAN 14 DAYS.
5. REFERENCE TO BE 6-152.3.3 & 4 FOR COMPLETE VEGETATIVE CHARTS AND FERTILIZER REQUIREMENTS.



Install Double Row Of Filter Media Socks In Sensitive Applications Only When Necessary



NOTES:

1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. PLACE ONE STAKE AT THE CENTER OF THE DITCH/CHANNEL.
*ALSO PLACE STAKES AT THE BED/BANK JUNCTION AND AT END OF THE DITCH/STAKE NOT SPACED MORE THAN 4 FEET APART.
3. THE EXCESSIVE SHOULD BE REMOVED FROM BEHIND THE CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
4. MINIMUM STAKING DEPTH FOR SAND, SILT, AND CLAY SHALL BE 12".
5. FILTER MEDIA SOCKS TO BE MIN. 18" DIAMETER UNLESS NOTED OTHERWISE ON PLANS.

Natural Growth Filter Socks- 12"

12" Diameter Filter Media Sock

36" Minimum Length Hardwood Stakes As Specified

Disturbed Area

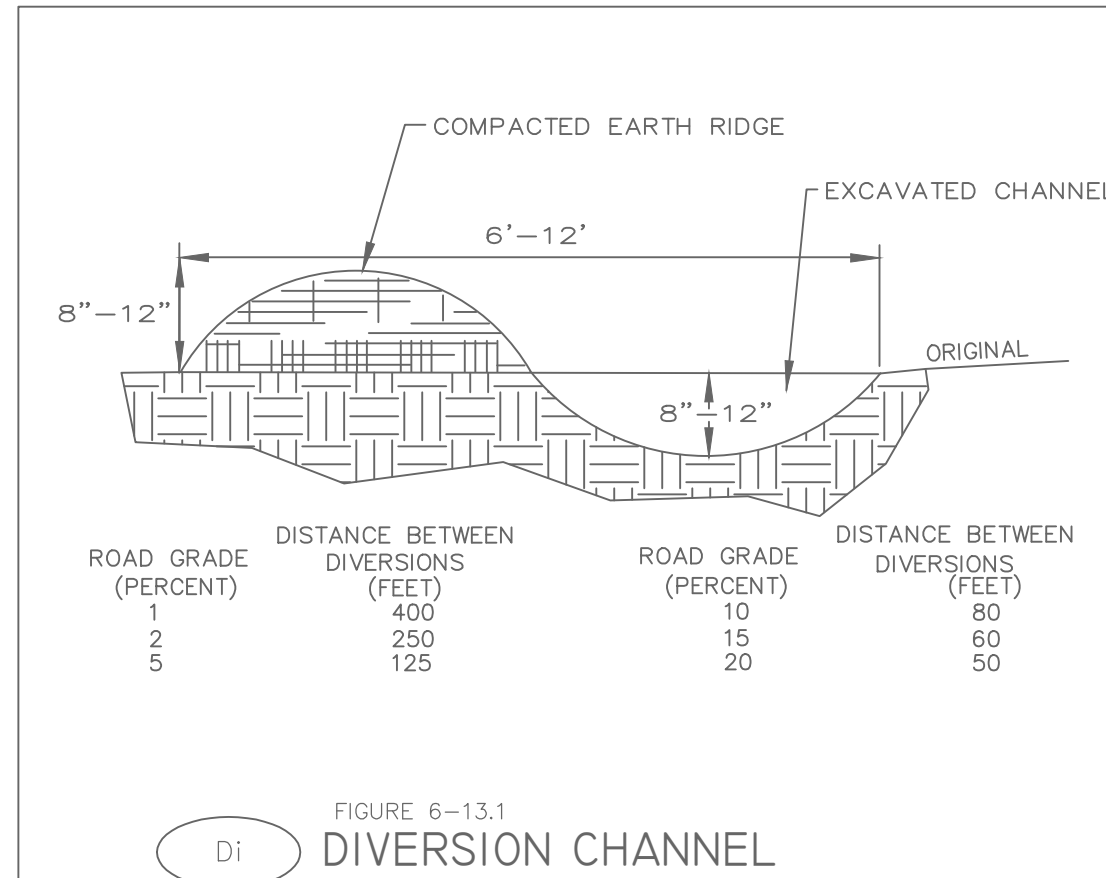
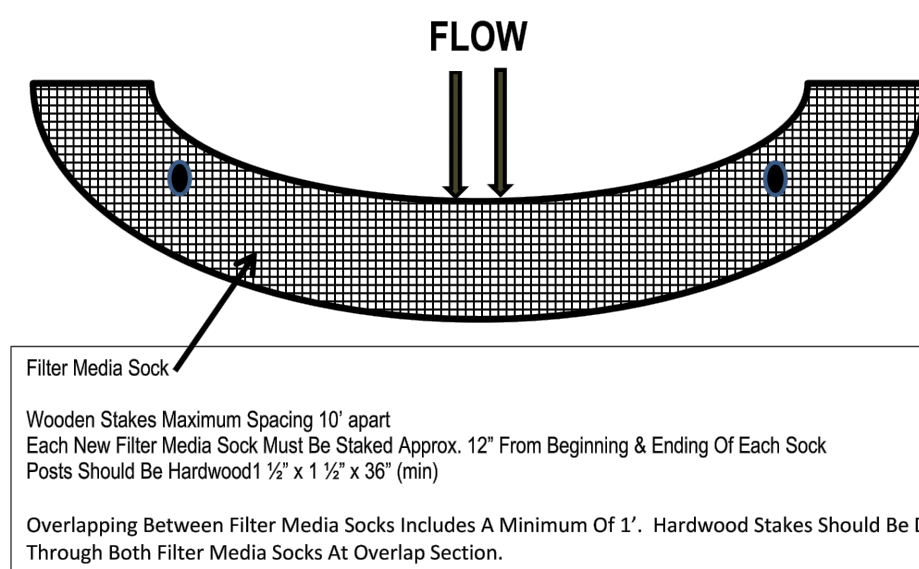
Ground Level

Area To Be Protected

Base Of Buried Stake Should Be At 12" Minimum Depth

Install Second Row Of Filter Media Socks As Specified On Plan

Note: Filter Media Socks Sized To Suit Conditions



CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the result of vegetation succession surrounding an area of disturbance or burning streams.
Cs	CASTLE ZONE (STABILIZATION WITH VEGETATION)			Planting vegetation on dunes that are critically eroded, or re-mounded.
Ds1	DISBURSED AREA (VEGETATION WITH MULCHING)			Establishing temporary protection for disturbed areas where seedlings may not have a stable growing surface to produce an erosion reducing cover.
Ds2	DISBURSED AREA (VEGETATION WITH TIE STAKES)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISBURSED AREA (VEGETATION WITH FINE SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISBURSED AREA (VEGETATION USING SOIL COVERS)			A permanent vegetative cover using sods on highly erodible or critically eroded areas.
Du	DUFF CONTROL ON DISTURBED AREAS			Controlling surface and movement of duff on construction site, roadway and similar sites.
Fl-Cd	FLUENT MATERIALS AND CLAYSTAYS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	SEEDBANK (VEGETATION USING FERTILIZER)			The use of readily available native plant materials to maintain and enhance seedbanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and stabilize temporary or permanent erosion on steep slopes, shore lines, or channels.
Tac	TACKLING AND BINDERS			Substance used to anchor silt or heavy mud by causing the organic material to bind together.

EC-10

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