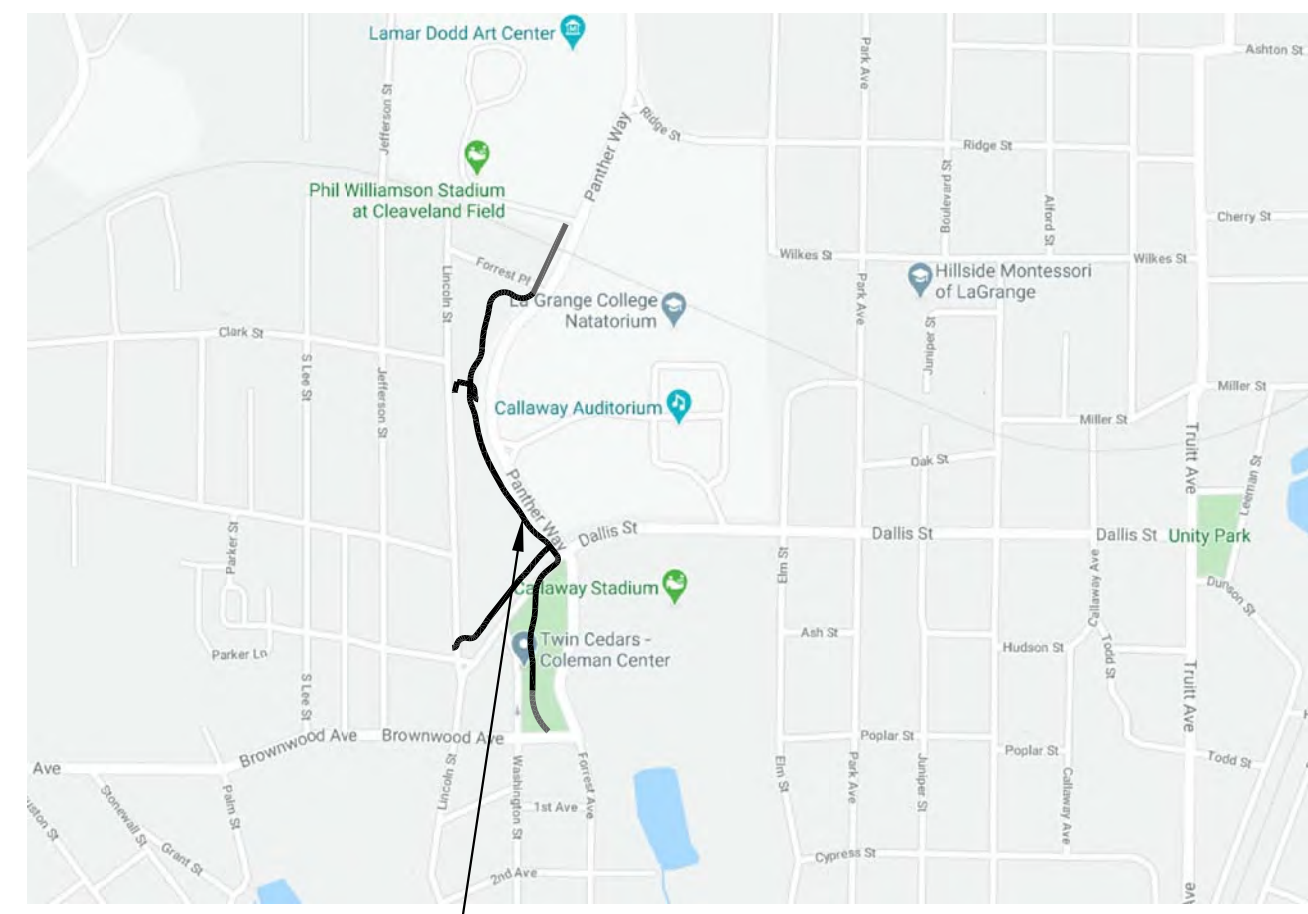


LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL

CITY OF LaGRANGE, GEORGIA



PROJECT SITE

VICINITY MAP
N.T.S.

LAND LOTS: 115 AND 142 - 6 TH 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

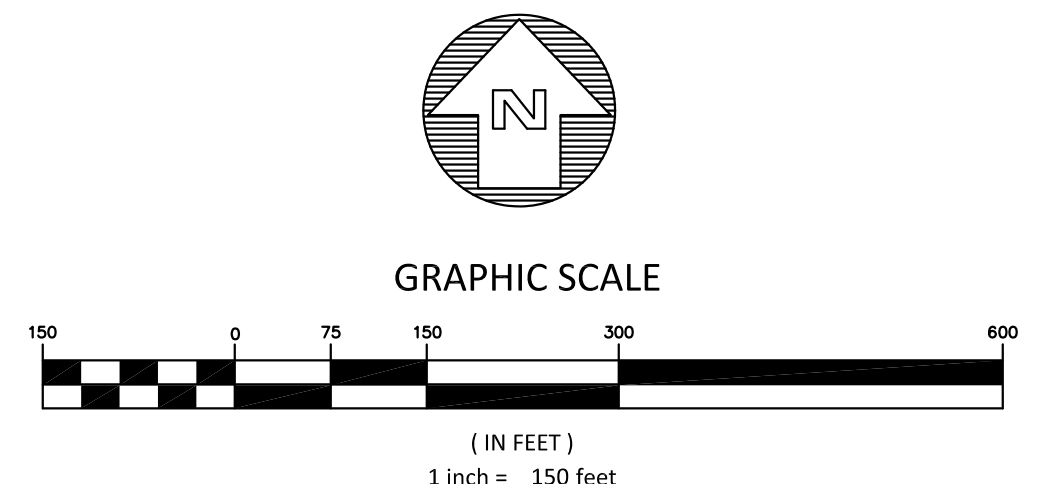
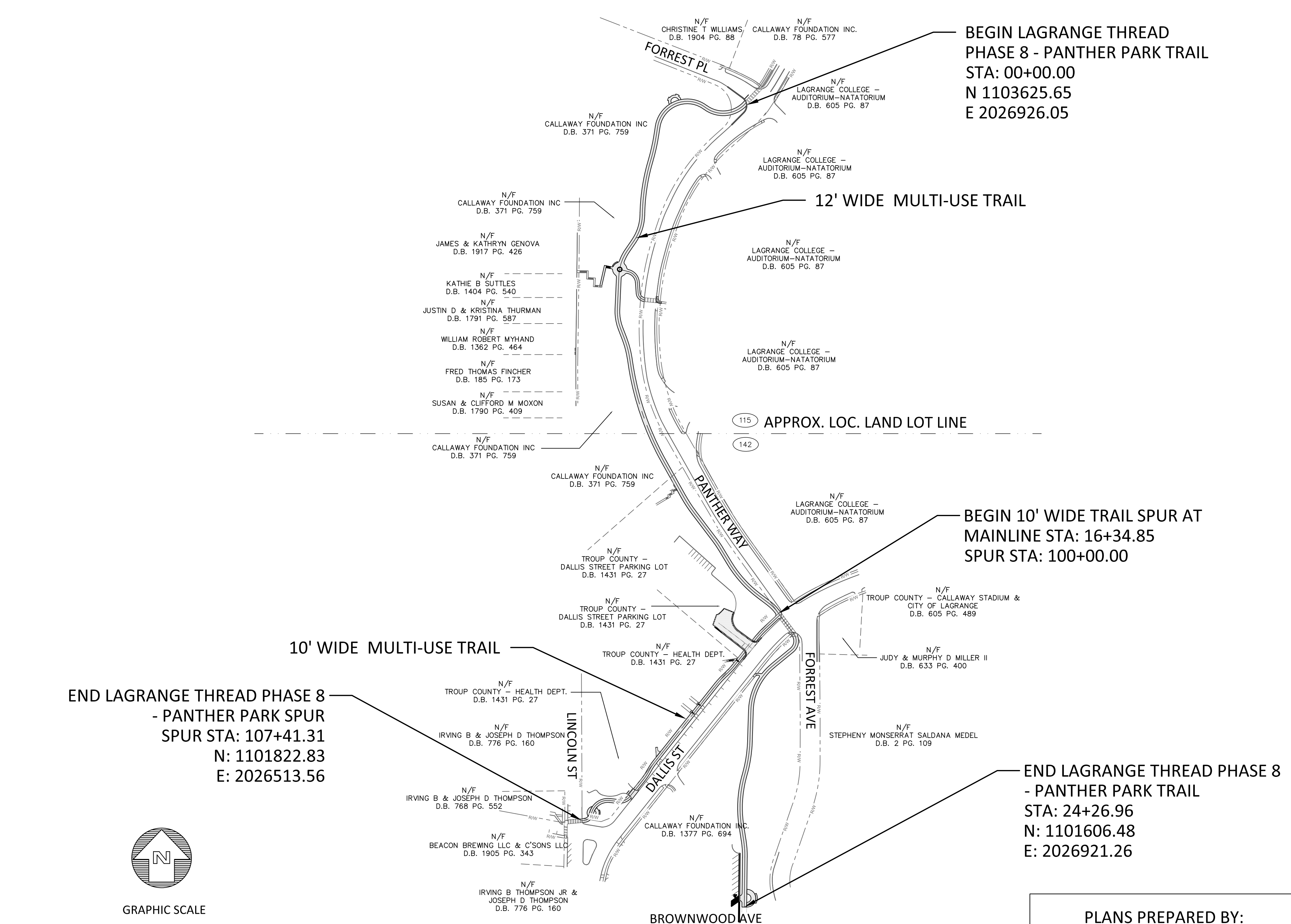
SURVEY AND COORDINATE DATA
 HORIZ. DATUM - GA. STATE PLANE COORDINATE SYSTEM
 VERT. DATUM - NAVD 1988
 COORDINATE ZONE - GEORGIA WEST
 PROJECT UNITS - ENGLISH

PROJECT DESCRIPTION
 THE PROJECT FALLS WITHIN LAND LOTS 115 AND 142 IN DISTRICT 6. 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 3.4 ACRES, NO DISTURBANCE IS PROPOSED WITHIN THE STATE 25' STREAM BUFFER SETBACK.

NARRATIVE
 THIS PROJECT IS A LINEAR PATH PARALLEL TO PANTHER WAY, BEGINNING AT THE INTERSECTION OF FORREST PLACE AND PANTHER WAY. THE TRAIL ALIGNS THROUGH CITY EASEMENT, AND HAS TWO TERMINUSES: 1) THE INTERSECTION OF BROWNWOOD AVE AND FORREST AVE 2) THE INTERSECTION OF LINCOLN ST AND DALLIS ST
 THE PROJECT SCOPE INCLUDES APPROXIMATELY 3168 LF OF CONCRETE TRAIL, TRAIL AMENITIES, & SIGNAGE. ADDITIONAL WORK ASSOCIATED WITH THE PROJECT INCLUDES MINOR DEMOLITION AND CLEARING, EROSION CONTROL, AND GRADING.

OWNER/DEVELOPER (PRIMARY PERMITTEE)
 TROUP COUNTY
 ERIC MOSLEY, COUNTY MANAGER
 100 RIDLEY AVENUE
 LAGRANGE, GA 30240
 706-883-1610

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



ENGINEER'S CERTIFICATION STATEMENT:
 With my initials at the line above and my seal and signature below, I Charles M. Abbott, a professional **Engineer**, 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: *Charles M. Abbott* Georgia Registration # **NO. 31674**
 Date: **MAY 8, 2020**

GROSS LENGTH OF PROJECT: **3168 LF**
 MAINLINE TRAIL: **2427 LF**
 SPUR TRAIL: **741 LF**
 TOTAL SITE AREA = **1.82 ACRES**
 DISTURBED AREA = **3.4 ACRES**

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

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

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

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

INDEX OF SHEETS

- GENERAL**
 COVER SHEET (THIS SHEET)
 GN-01 GENERAL NOTES
- COMPOSITE MAP**
 CM-01 COMPOSITE MAP
- TOPOGRAPHIC SURVEY**
 S-01 TOPOGRAPHIC SURVEY
 S-02 TOPOGRAPHIC SURVEY
 S-03 TOPOGRAPHIC SURVEY
 S-04 TOPOGRAPHIC SURVEY
- TYPICAL SECTIONS**
 TS-01 TYPICAL SECTIONS
- CONSTRUCTION PLANS**
 CP-01 CONSTRUCTION PLAN
 CP-02 CONSTRUCTION PLAN
 CP-03 CONSTRUCTION PLAN
 CP-04 CONSTRUCTION PLAN
- STORM SEWER PROFILES**
 SP-01 STORM SEWER PROFILES
- SIGNING AND MARKING PLANS**
 SM-00 SIGNING AND MARKING DETAILS
 SM-01 SIGNING AND MARKING PLAN
 SM-02 SIGNING AND MARKING PLAN
 SM-03 SIGNING AND MARKING PLAN
 SM-04 SIGNING AND MARKING PLAN
- LANDSCAPE PLANS**
 LN-01 LANDSCAPE NOTES
 LP-01 LANDSCAPE PLAN
 LP-02 LANDSCAPE PLAN
 LP-03 LANDSCAPE PLAN
 LP-04 LANDSCAPE PLAN
 LD-01 PLANTING DETAILS
- CONSTRUCTION DETAILS**
 CD-01 CONSTRUCTION DETAIL
 CD-02 CONSTRUCTION DETAIL
 CD-03 CONSTRUCTION DETAIL
 CD-04 CONSTRUCTION DETAIL
 CD-05 CONSTRUCTION DETAIL
- EROSION AND SEDIMENT CONTROL PLANS**
 EC-01 EROSION CONTROL PLAN
 EC-02 EROSION CONTROL PLAN
 EC-03 EROSION CONTROL PLAN
 EC-04 EROSION CONTROL PLAN
 ED-01 EROSION CONTROL DATA
 ED-02 EROSION CONTROL DETAILS
 EN-01 EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES
 EN-02 EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES

PLANS PREPARED BY:
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) 834-4894 FAX (770) 834-1005 E-MAIL: mailbox@georgiaandwest.com



LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL

KAIZEN PROJECT # 2020-196

05/08/2020 - 100% ISSUE FOR PERMIT

Sheet 01

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

12' WIDE MULTI-USE TRAIL

Sheet 02

APPROX. LOC. LAND LOT LINE

Sheet 03

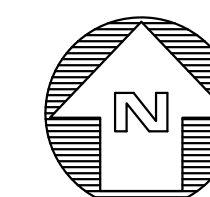
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MAINLINE STA: 16+34.85
SPUR STA: 100+00.00

10' WIDE MULTI-USE TRAIL

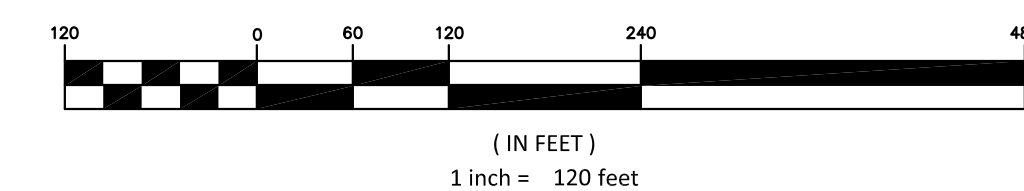
Sheet 04

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

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



GRAPHIC SCALE



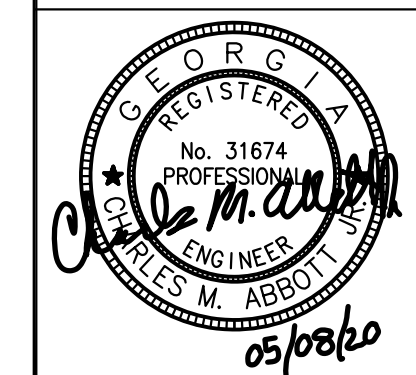
KAIZEN COLLABORATIVE
2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

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ENGINEERING LAND SURVEYING LAND PLANNING
OFFICE (770) 834-6844 FAX (770) 834-1005
E-MAIL: mailbox@georgiawest.com

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

PROJECT #	2020-196
PROJECT MANAGER	NS

**LAGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LAGRANGE, GA**



COMPOSITE MAP

SCALE	1" = 120'
DATE	MAY 8, 2020

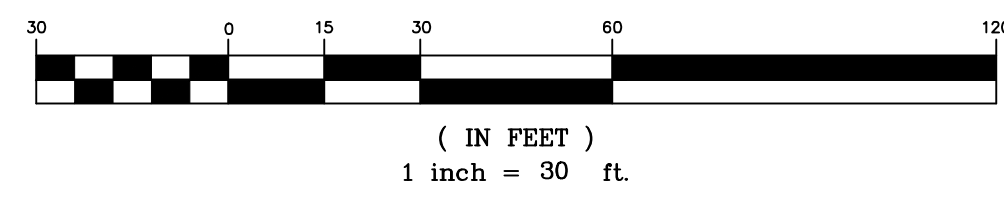
SHEET # **CM-01**

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



Know what's below.
Call before you dig.

GRAPHIC SCALE



13285C0141E
THE F.I.R.M. PANEL 13285C0143E DATE 07/03/2012

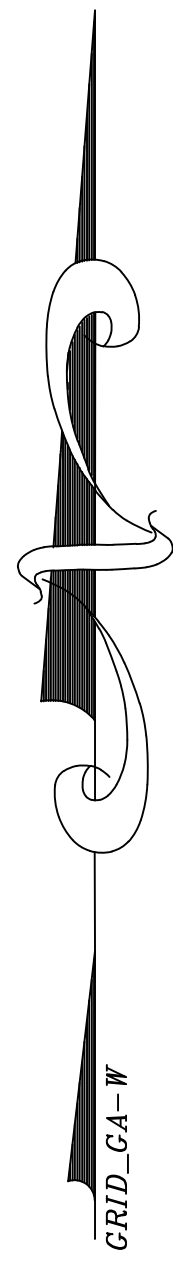
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TREE LEGEND

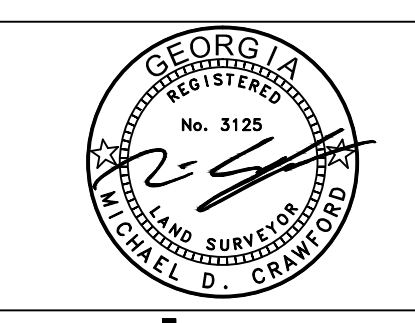
MA=maple	O=oak	WA=walnut	SG=sweetgum	CH=cherry	HK=hickory
PC=pecan	MI=mimosa	BH=beech	PI=pine	PO=poplar	SW=sourwood
GI=ginko	SM=sycamore	BE=boxelder	C=cedar	HB=hackberry	CW=cottonwood
UK=unk hardwood	DW=dogwood	PE=pear	BI=birch	MG=magnolia	BG=black gum

LEGEND

1033 CATCH BASIN	OVERGROUND DOWNSPOUT	SB SEDIMENT BARRIER
1034 CATCH BASIN	WATER VALVE	TP TREE PROTECTION FENCE
1019A DROP INLET	GAS VALVE	CLF CHAIN LINK FENCE
1011A JUNCTION BOX	HANDICAPPED PARKING	EXF EXISTING FENCE
1019A TYPE E CURB INLET	TRAFFIC FLOW	PLP PROPERTY LINE
1125 HEADWALL	UNDERGROUND POWER	EXG EXISTING CONTOUR
DRAINAGE SLOPE	OVERHEAD POWER	100 PROPOSED CONTOUR
SEWER MANHOLE	UNDERGROUND TELEPHONE	EXC EXISTING CURB & GUTTER
EXISTING FIRE HYDRANT	OVERHEAD TELEPHONE	PROPOSED CURB & GUTTER
PROPOSED FIRE HYDRANT	WATER	X 1010 EXISTING SPOT ELEVATION
LAMP POST	SANITARY SEWER	1010 PROPOSED SPOT ELEVATION
GUY POLE	FORCE MAIN	WMI EXISTING WATER METER
UTILITY POLE	GAS	ICV IRRIGATION CONTROL VALVE
UNDERGROUND DOWNSPOUT	STORM DRAIN	MBX MAILBOX
		SM GAS METER
		PM POWER METER



NO.	DATE	REVISION	DESCRIPTION



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108 CORPORATE DRIVE
CARROLLTON, GA. 30117
OFFICE 770.304.4684
FAX 770.864.1065
E-MAIL: info@georgiawest.com

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TITLE: TOPOGRAPHIC SURVEY
LaGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LOCATED IN LAND LOTS 115 & 142 DISTRICT 6
TROUP COUNTY, GEORGIA
SCALE: 1" = 30'
JOB NUMBER: 200203
DATE: 04-01-2020
DESIGNED BY: S-01

C:\J\200203\LA-LEN\LAGRANGE-THREAD-PANTHER-PARK-RTP.DWG 200203.BASEMAP 4:57:2020 9:52:02 AM

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GRAPHIC SCALE

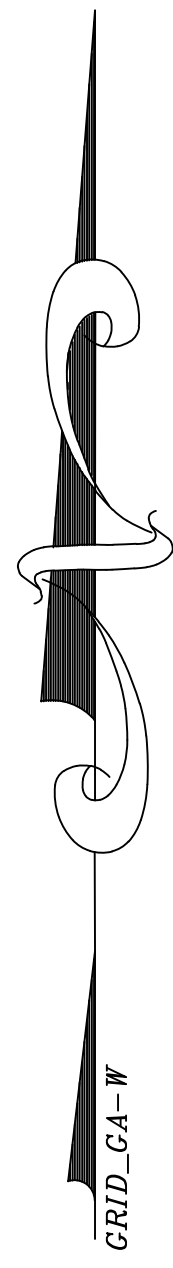
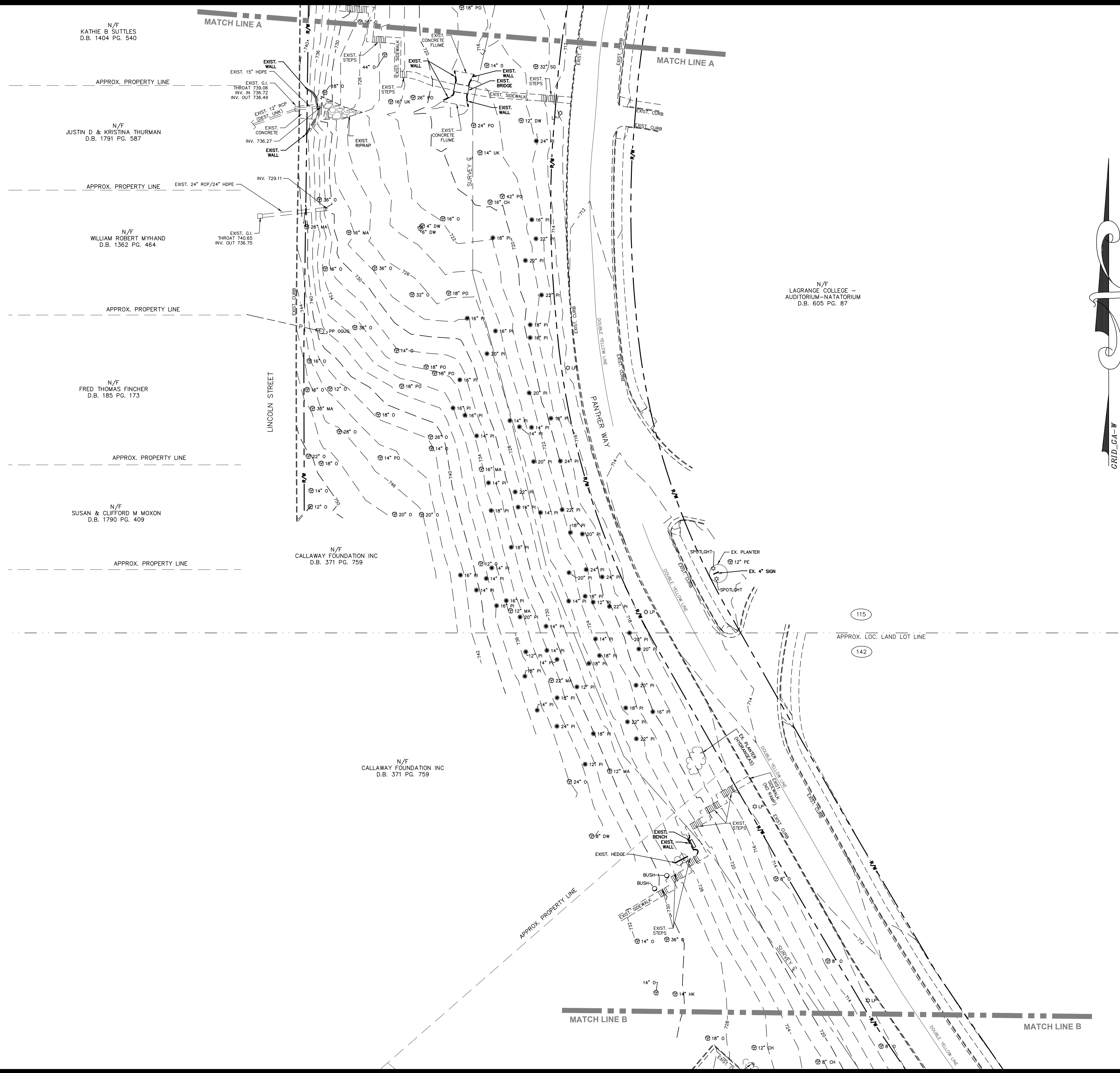


(IN FEET)
1 inch = 30 ft.

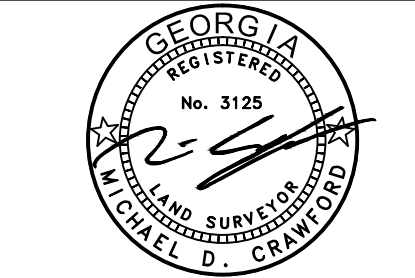
13285C0141E
THE F.I.R.M. PANEL 13285C0143E DATE 07/03/2012
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TREE LEGEND					
MA=maple	O=oak	WA=walnut	SG=sweetgum	CH=cherry	HK=hickory
PC=pecan	MI=mimosa	BH=beech	PI=pine	PO=poplar	SW=sourwood
GI=ginkgo	SM=sycamore	BE=boxelder	C=cedar	HB=hackberry	CW=cottonwood
UK=unk hardwood	DW=dogwood	PE=pear	BI=birch	MG=magnolia	BG=black gum

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



NO.	DATE	REVISION	DESCRIPTION



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108 CORPORATE DRIVE
CARROLLTON, GA. 30117
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LaGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LOCATED IN LAND LOTS 115 & 142 DISTRICT 6
TROUP COUNTY, GEORGIA
SCALE: 1" = 30'
DATE: 04-01-2020
JOB NUMBER: 200203
DESIGNED BY: S-02

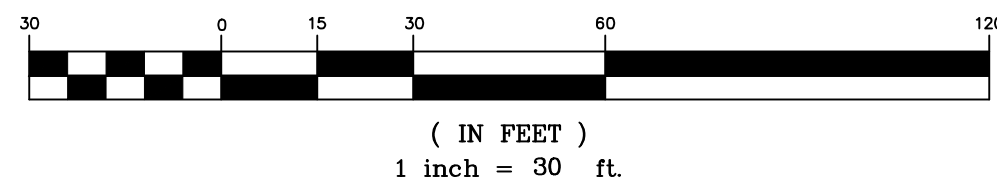
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GRAPHIC SCALE

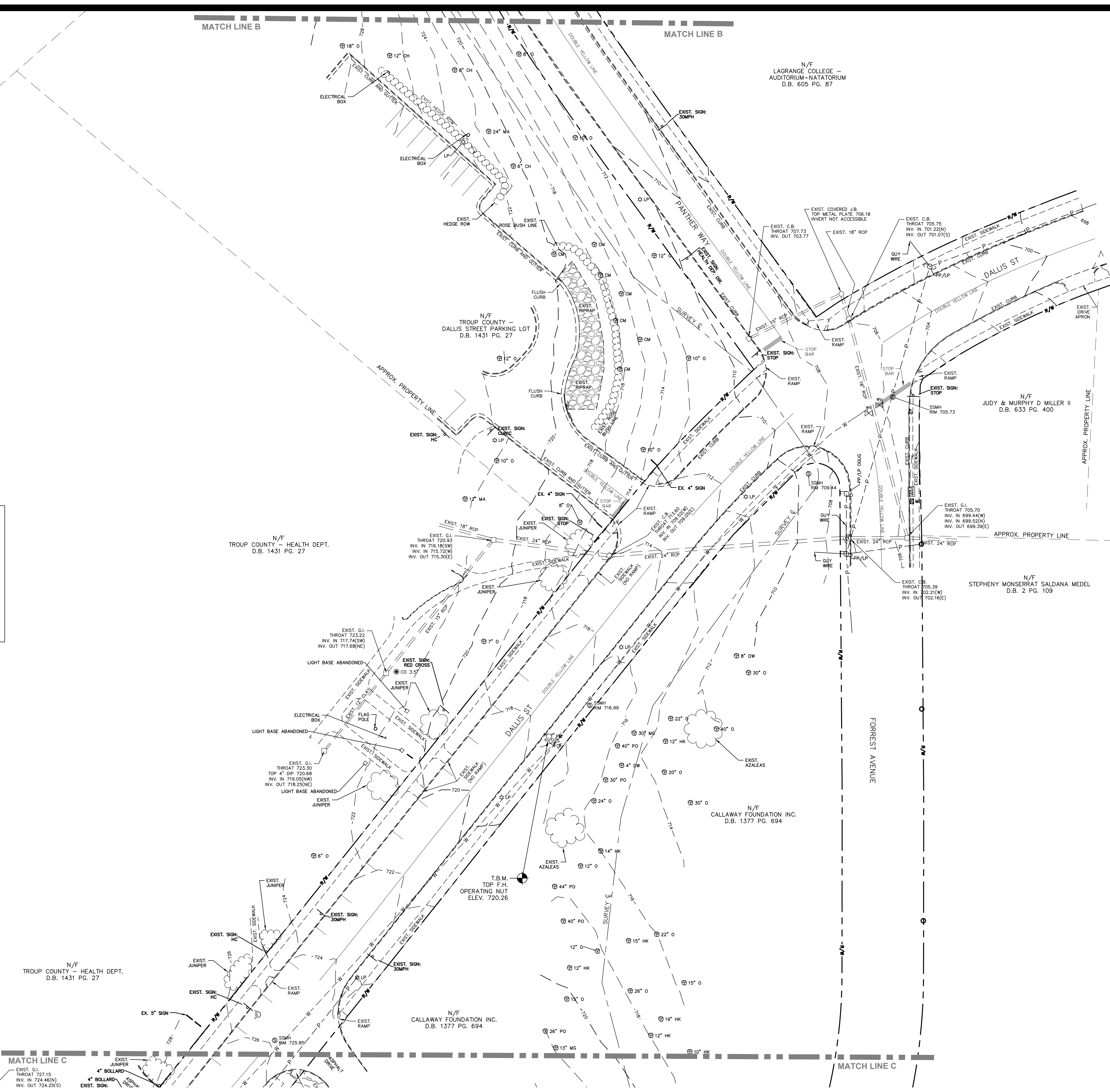


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TREE LEGEND					
MA=maple	O=oak	WA=walnut	SG=sweetgum	CH=cherry	HK=hickory
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1019A TYPE E CURB INLET	TRAFFIC FLOW	PLP PROPERTY LINE
1125 HEADWALL	UNDERGROUND POWER	EXC EXISTING CONTOUR
DRAINAGE SLOPE	UNDERGROUND TELEPHONE	100 PROPOSED CONTOUR
SEWER MANHOLE	OVERHEAD POWER	EXC EXISTING CURB & GUTTER
EXISTING FIRE HYDRANT	UNDERGROUND TELEPHONE	100 PROPOSED CURB & GUTTER
PROPOSED FIRE HYDRANT	WATER	X 1010 EXISTING SPOT ELEVATION
LAMP POST	SANITARY SEWER	X 1010 PROPOSED SPOT ELEVATION
GUY POLE	FORCE MAIN	WV EXISTING WATER METER
UTILITY POLE	GAS	ICV IRRIGATION CONTROL VALVE
UNDERGROUND DOWNSPOUT	STORM DRAIN	MA MALEBOLY
		SM GAS METER
		PM POWER METER

C:\J\202003\KALEN LAGRANGE THREAD-PANTHER PARK RTP.DWG 200203 BASEMAP 4 5/7/2020 9:52:30 AM



NO.	DATE	REVISION

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TITLE: TOPOGRAPHIC SURVEY LaGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL	DESIGNED BY 2020203
DATE: 04-01-2020	JOB NUMBER: 2020203
SCALE: 1" = 30'	DISTRICT: 6

S-03

NOTE:
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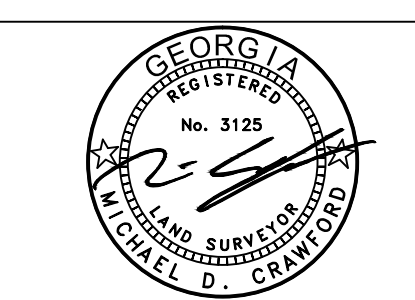
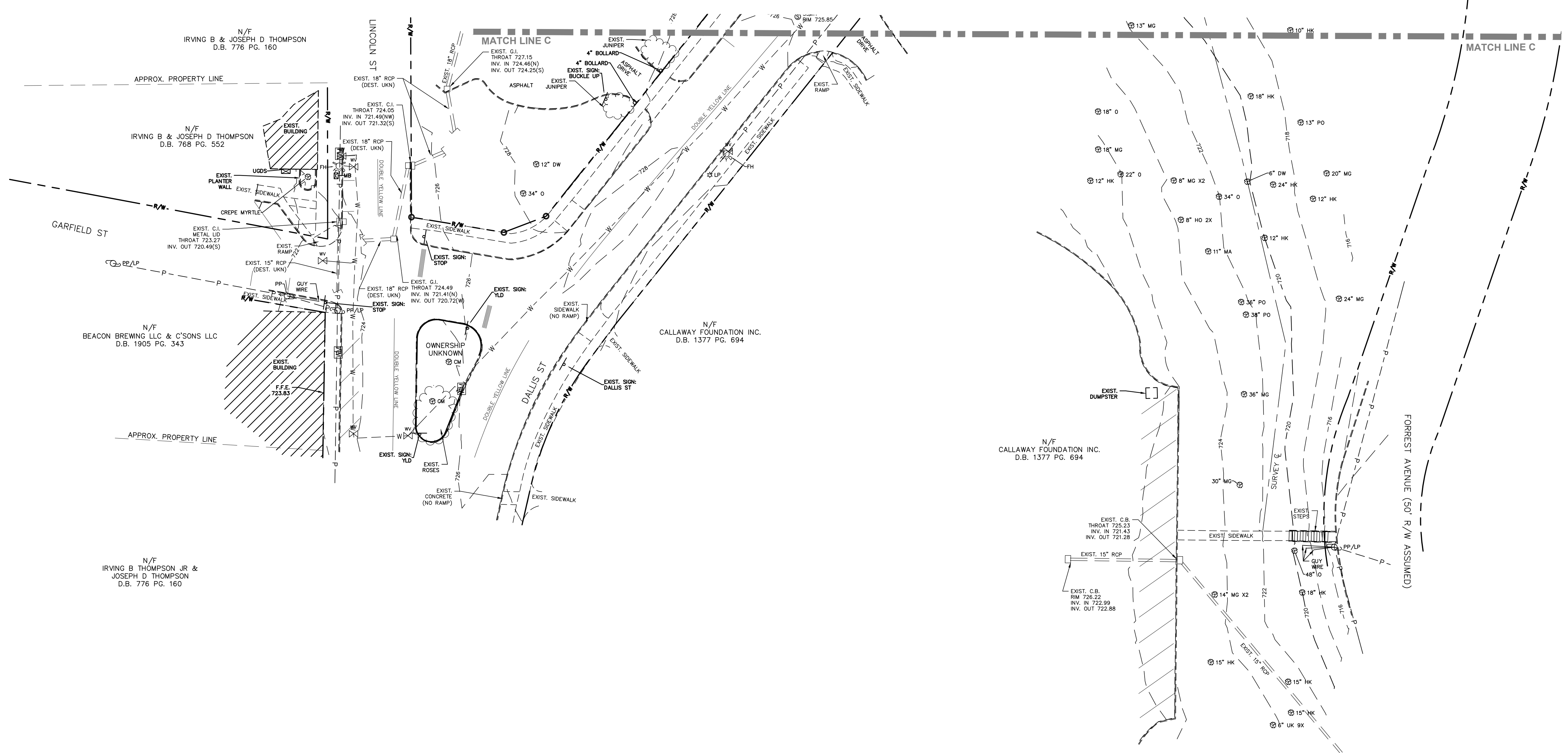


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1125 HEADWALL	UNDERGROUND POWER	EX CON EXISTING CONTOUR
DRAINAGE SLOPE	OVERHEAD POWER	PRO CON PROPOSED CONTOUR
SEWER MANHOLE	UNDERGROUND TELEPHONE	EX C&G EXISTING CURB & GUTTER
EXISTING FIRE HYDRANT	OVERHEAD TELEPHONE	PRO C&G PROPOSED CURB & GUTTER
PROPOSED FIRE HYDRANT	WATER	X 1010 EXISTING SPOT ELEVATION
LAMP POST	SANITARY SEWER	PRO 1010 PROPOSED SPOT ELEVATION
GUY POLE	FORCE MAIN	WM EXISTING WATER METER
UTILITY POLE	GAS	ICV IRRIGATION CONTROL VALVE
UNDERGROUND DOWNSPOUT	STORM DRAIN	MB MAILBOX
		GM GAS METER
		PM POWER METER

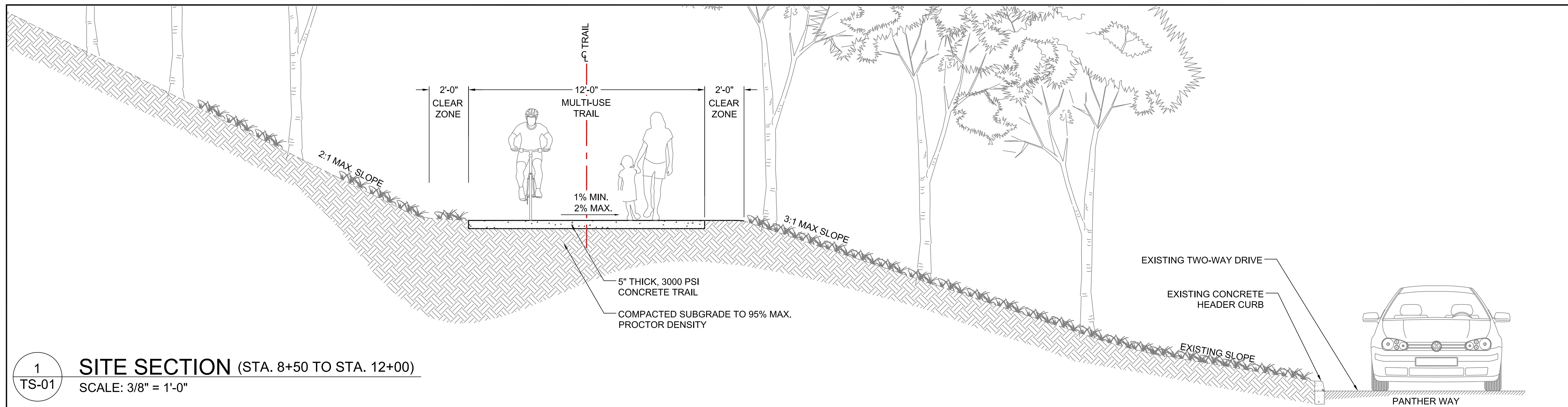


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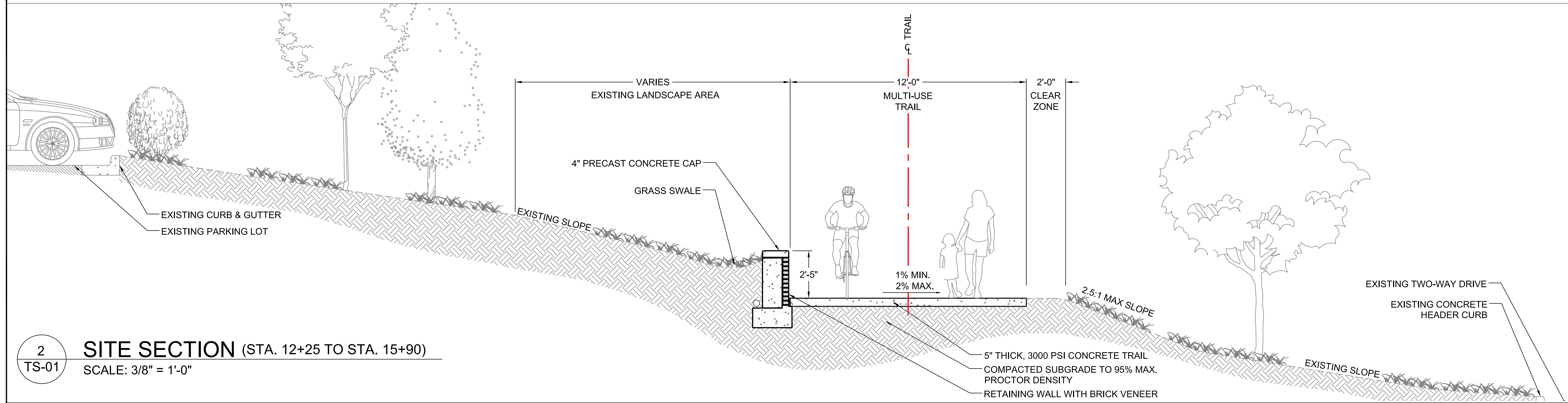
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PANTHER PARK TRAIL
LOCATED IN LAND LOTS 115 & 142 DISTRICT 6
TROUP COUNTY, GEORGIA
SCALE: 1" = 30'
JOB NUMBER: 200203
DATE: 04-01-2020
DESIGNED BY: S-04

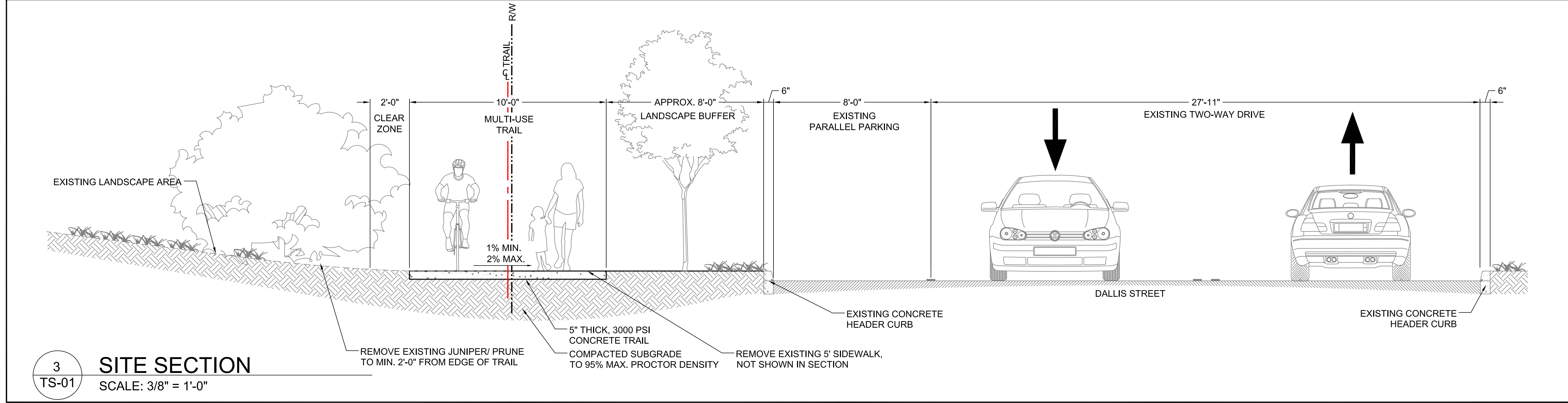
C:\J\200203\LaGrange Thread-Panther 8\DWG\200203.BASEMAP.dwg 5/7/2020 9:52:52 AM



1 SITE SECTION (STA. 8+50 TO STA. 12+00)
 TS-01 SCALE: 3/8" = 1'-0"



2 SITE SECTION (STA. 12+25 TO STA. 15+90)
 TS-01 SCALE: 3/8" = 1'-0"

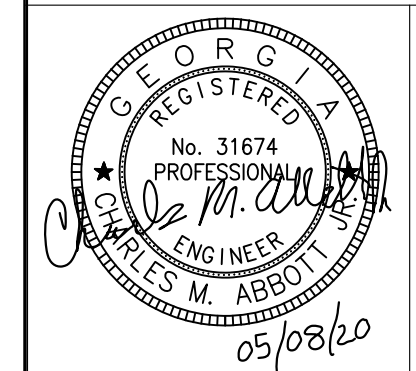


3 SITE SECTION
 TS-01 SCALE: 3/8" = 1'-0"

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

PROJECT #	2020-196
PROJECT MANAGER	NS

**LAGRANGE THREAD PHASE 8 -
 PANTHER PARK TRAIL
 LAGRANGE, GA**

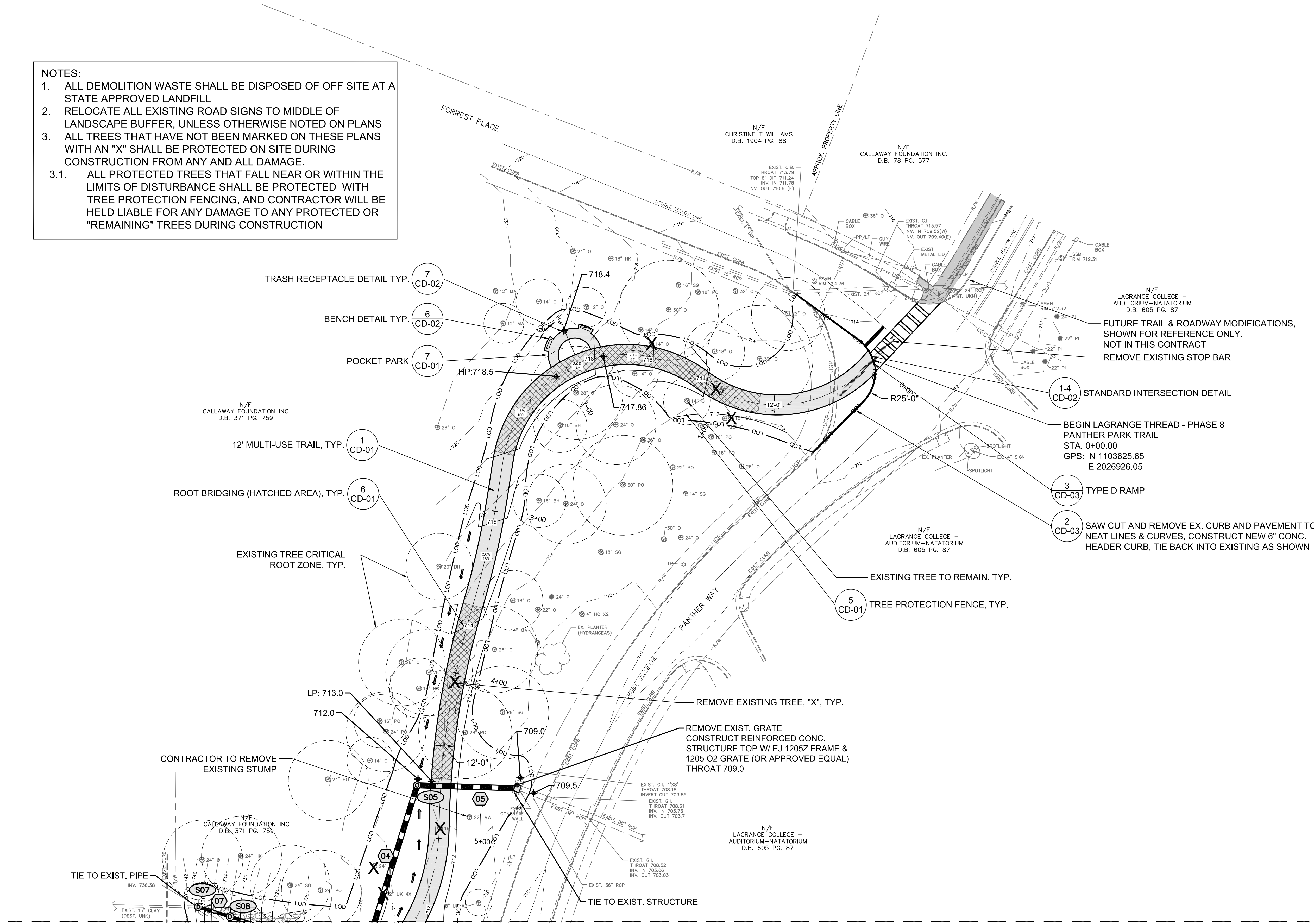


TYPICAL SECTION

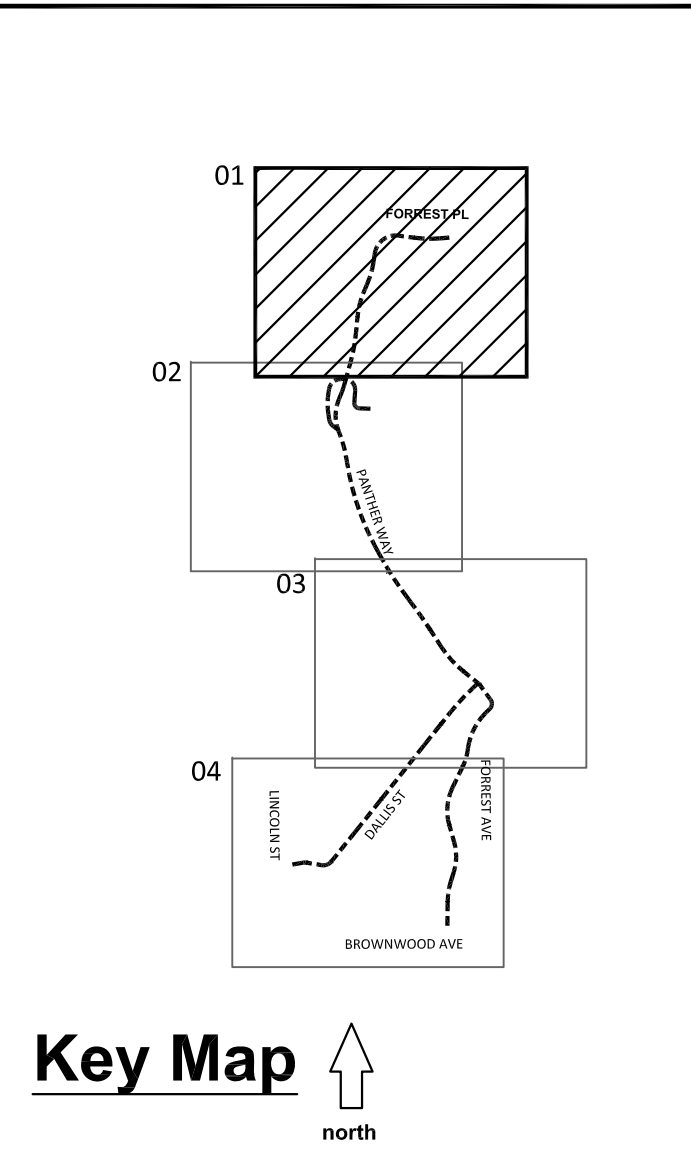
SCALE	AS SHOWN
DATE	MAY 8, 2020

SHEET # **TS-01**

- NOTES:**
- ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A STATE APPROVED LANDFILL
 - RELOCATE ALL EXISTING ROAD SIGNS TO MIDDLE OF LANDSCAPE BUFFER, UNLESS OTHERWISE NOTED ON PLANS
 - ALL TREES THAT HAVE NOT BEEN MARKED ON THESE PLANS WITH AN "X" SHALL BE PROTECTED ON SITE DURING CONSTRUCTION FROM ANY AND ALL DAMAGE.
 - ALL PROTECTED TREES THAT FALL NEAR OR WITHIN THE LIMITS OF DISTURBANCE SHALL BE PROTECTED WITH TREE PROTECTION FENCING, AND CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGE TO ANY PROTECTED OR "REMAINING" TREES DURING CONSTRUCTION



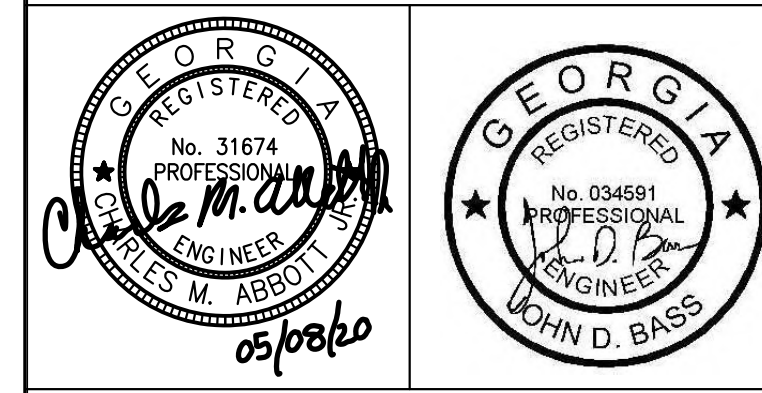
MATCHLINE STA 5+50
SEE SHEET CP-02



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

PROJECT #	2020-196
PROJECT MANAGER	NS

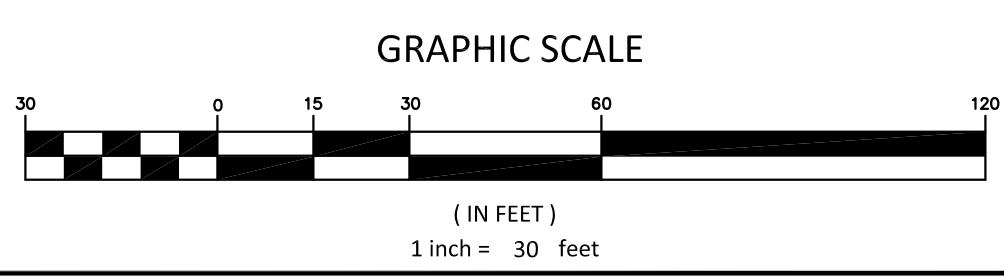
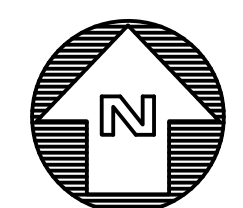
**LAGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LAGRANGE, GA**



CONSTRUCTION PLAN

SCALE	1" = 30' - 0"
DATE	MAY 8, 2020

SHEET # **CP-01**



MATCHLINE STA 5+50
SEE SHEET CP-01

N/F
JAMES & KATHRYN GENOVA
D.B. 1917 PG. 426
5' CONCRETE STAIR WAY W/ ALUMINUM TUBULAR PIPE POST AND RAILING (POWDER COATED BLACK), CORE DRILL MIN. 4" INTO STAIRS

TIE 5' SIDEWALK INTO EXISTING WALKWAY AS SHOWN, BEGIN REMOVAL OF STAIRS AND SIDEWALK TO PANTHER WAY

APPROX. PROPERTY LINE

N/F
KATHIE B SUTLES
D.B. 1404 PG. 540
APPROX. PROPERTY LINE

N/F
JUSTIN D & KRISTINA THURMAN
D.B. 1791 PG. 587
APPROX. PROPERTY LINE

N/F
WILLIAM ROBERT MYHAND
D.B. 1362 PG. 464
APPROX. PROPERTY LINE

N/F
FRED THOMAS FINCHER
D.B. 185 PG. 173
APPROX. PROPERTY LINE

N/F
SUSAN & CLIFFORD M MOXON
D.B. 1790 PG. 409
APPROX. PROPERTY LINE

N/F
CALLAWAY FOUNDATION INC
D.B. 371 PG. 759
APPROX. PROPERTY LINE

12' MULTI-USE TRAIL, TYP. (1 CD-01)

GRADE TO CREATE SPLASH BASIN LINE BASIN W/ GDOT TYPE 3 EQUIVALENT RIVER ROCK & FILTER FABRIC (40 SY; 1' THICK)
TIE TO EXIST. PIPE
ROOT BRIDGING (HATCHED AREA), TYP. (6 CD-01)

EXISTING TREE CRITICAL ROOT ZONE, TYP.

2:1 GRADE IN THIS AREA

3:1 GRADE IN THIS AREA

1 TS-01

A CP-02 ENLARGEMENT PLAN 'A'

PROP. ADA ACCESSIBLE ROUTE; MAX. 5% LONGITUDINAL SLOPE

1-4 CD-02 STANDARD INTERSECTION DETAIL, 10' CROSSWALK

3 CD-03 TYPE B RAMP, TIE TO EXISTING SIDEWALK

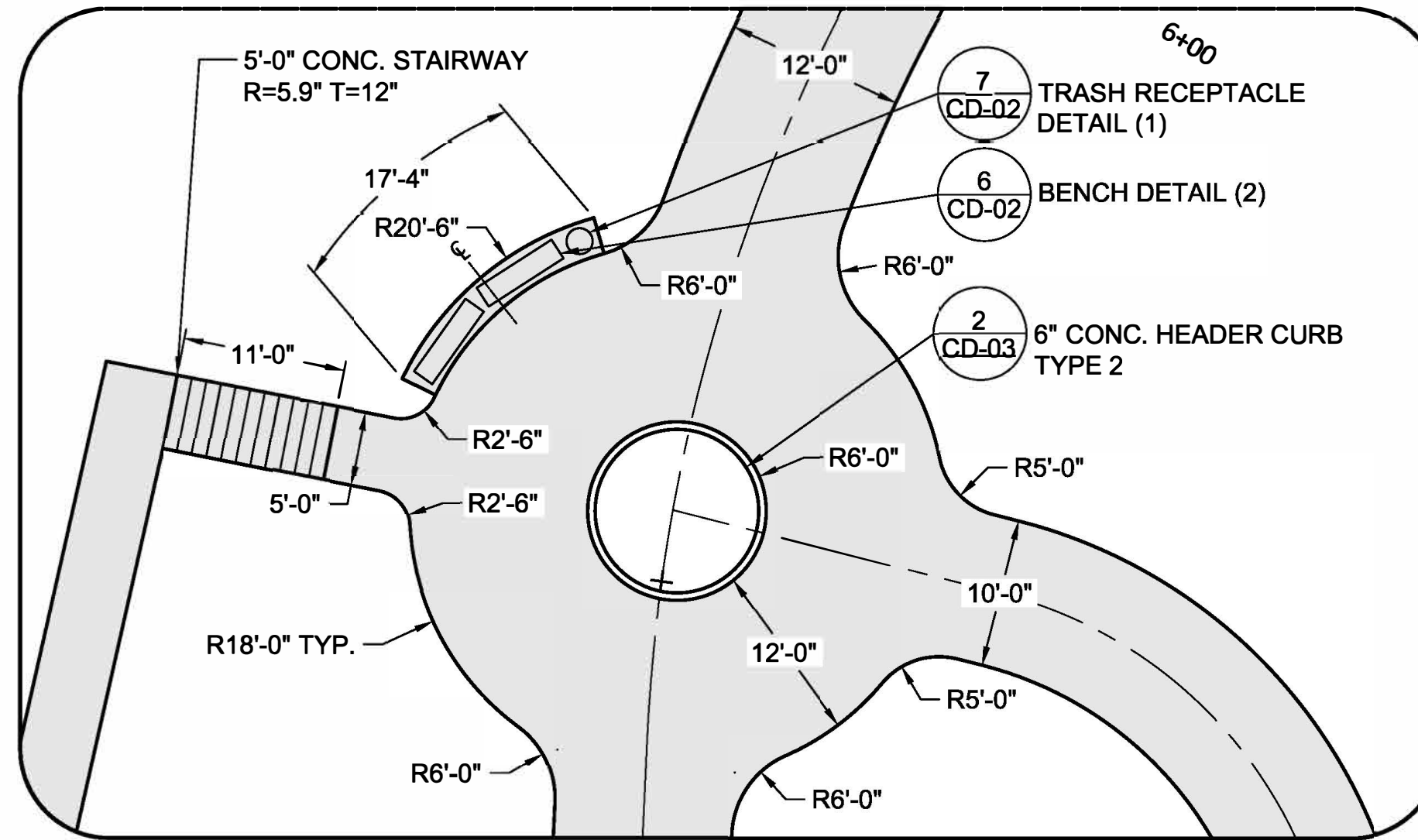
3 CD-03 TYPE D RAMP

REMOVE SIDEWALK AND STEPS

REMOVE EXISTING TREE, "X", TYP.

N/F
LAGRANGE COLLEGE - AUDITORIUM-NATORIUM
D.B. 605 PG. 87

MATCHLINE STA 11+50
SEE SHEET CP-03

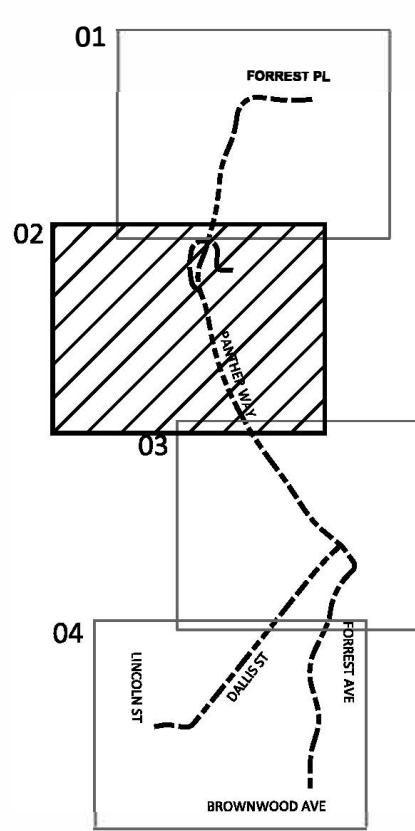


A ENLARGEMENT PLAN 'A'
CP-02 1" = 10'-0"

- NOTES:
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E-MAIL: mshar@georgiawest.com

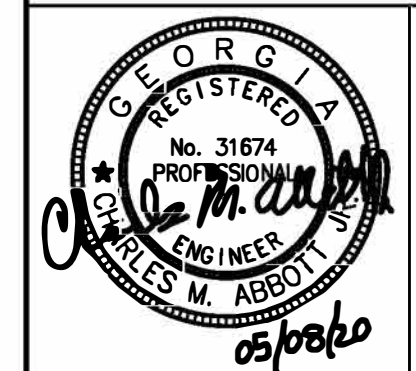


Key Map
north

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

PROJECT #	2020-196
PROJECT MANAGER	NS

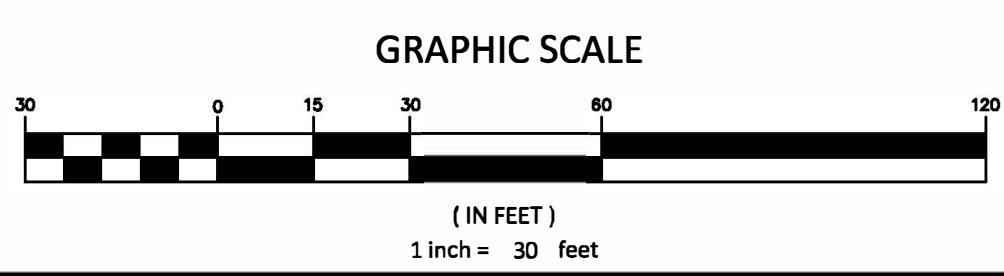
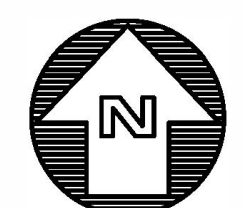
LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA

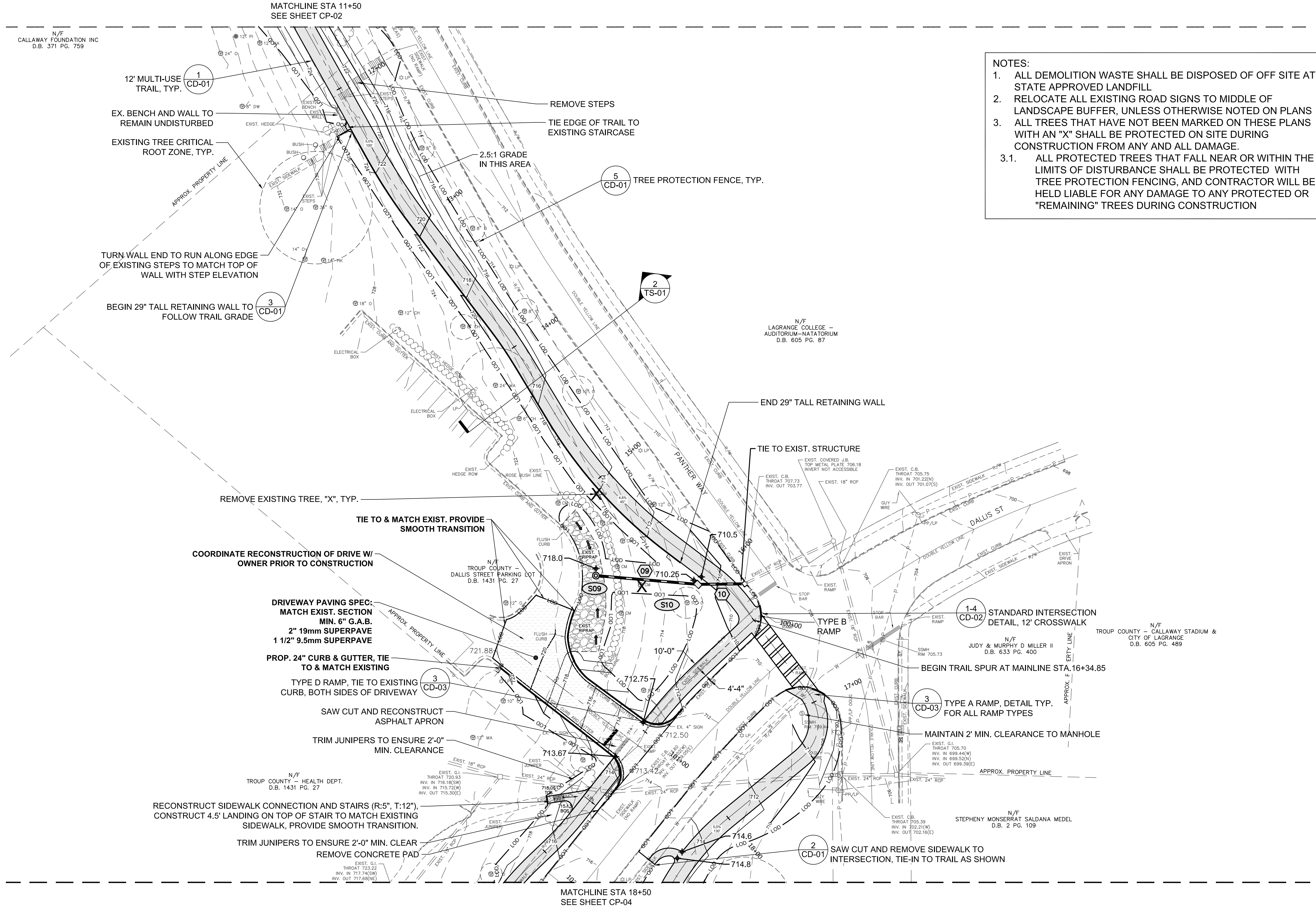


CONSTRUCTION PLAN

SCALE	1" = 30' - 0"
DATE	MAY 8, 2020

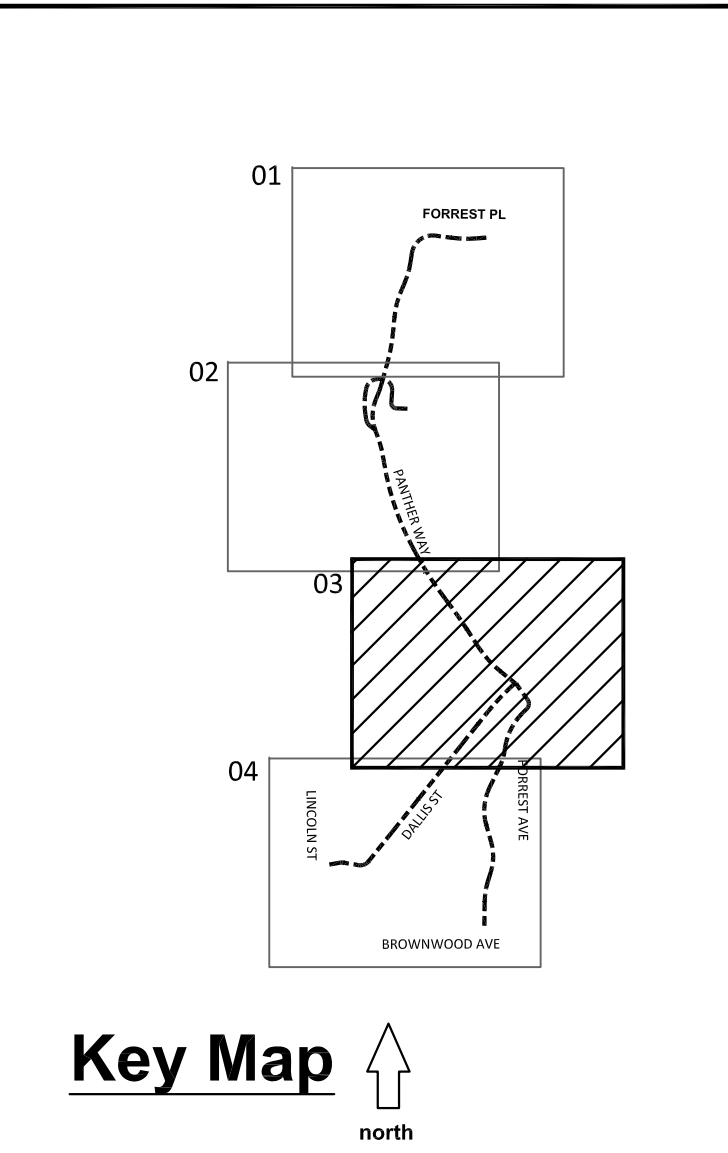
SHEET # **CP-02**





NOTES:

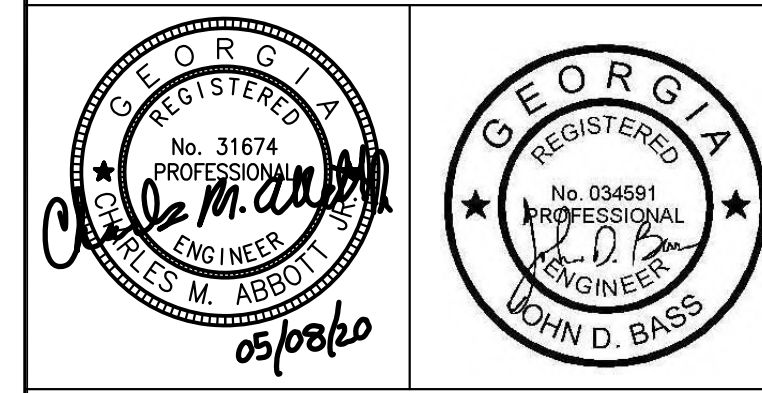
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05/08/2020	100% ISSUE FOR PERMIT

PROJECT #	2020-196
PROJECT MANAGER	NS

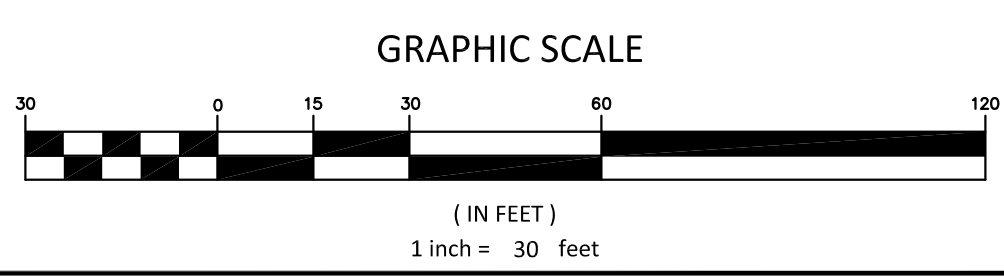
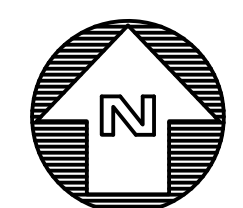
**LAGRANGE THREAD PHASE 8 -
 PANTHER PARK TRAIL
 LAGRANGE, GA**



CONSTRUCTION PLAN

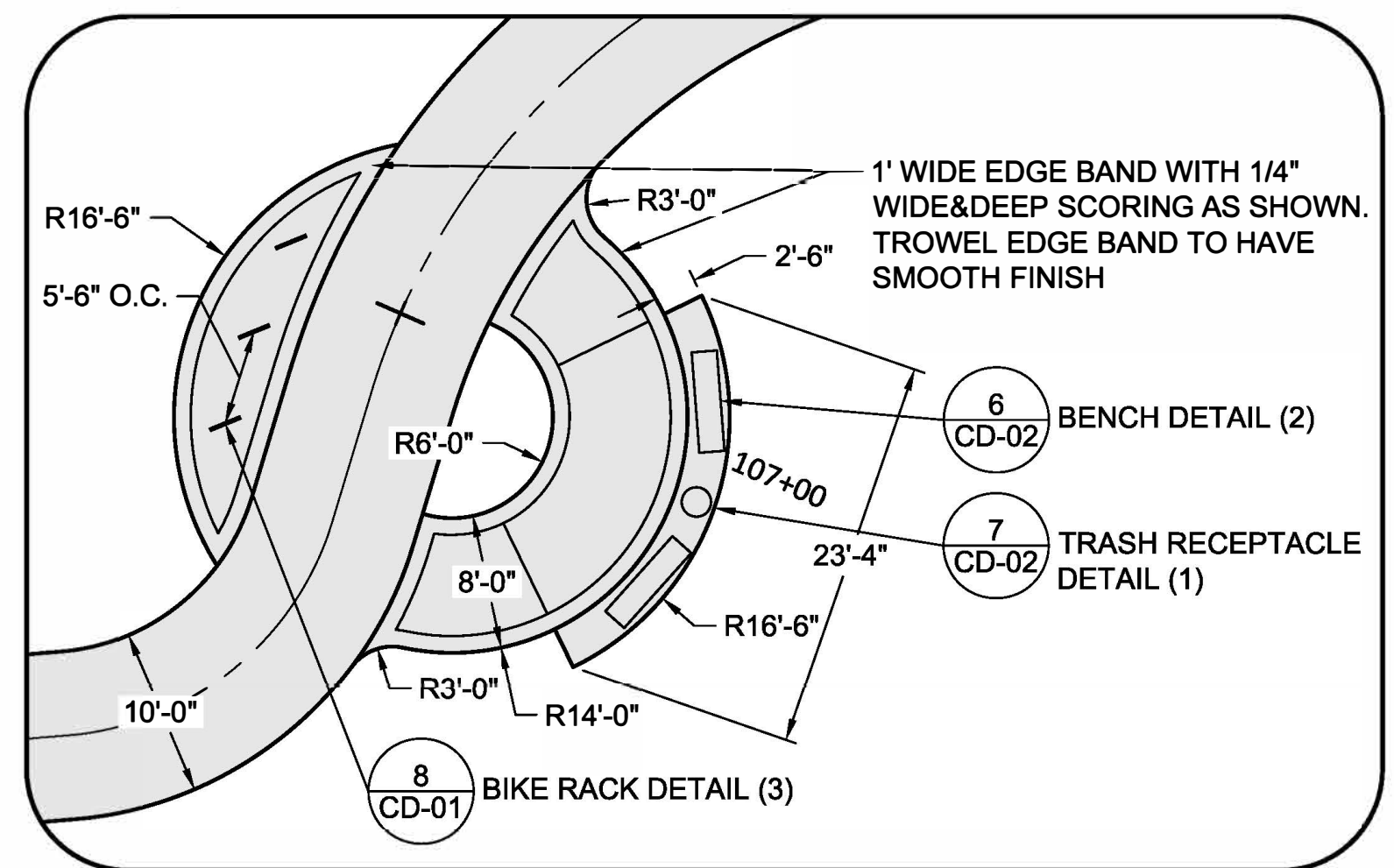
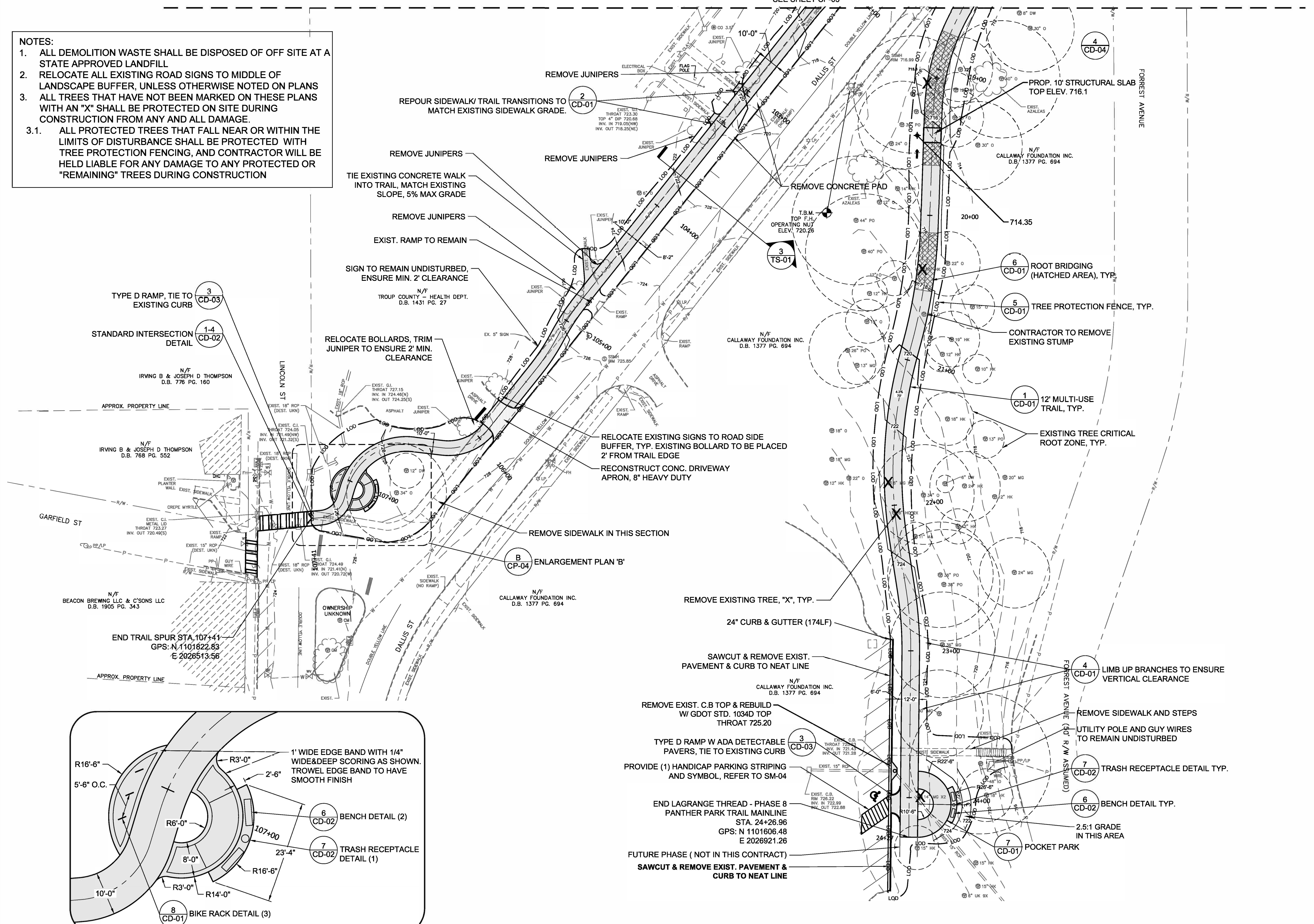
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DATE	MAY 8, 2020

SHEET # **CP-03**



MATCHLINE STA 18+50
SEE SHEET CP-03

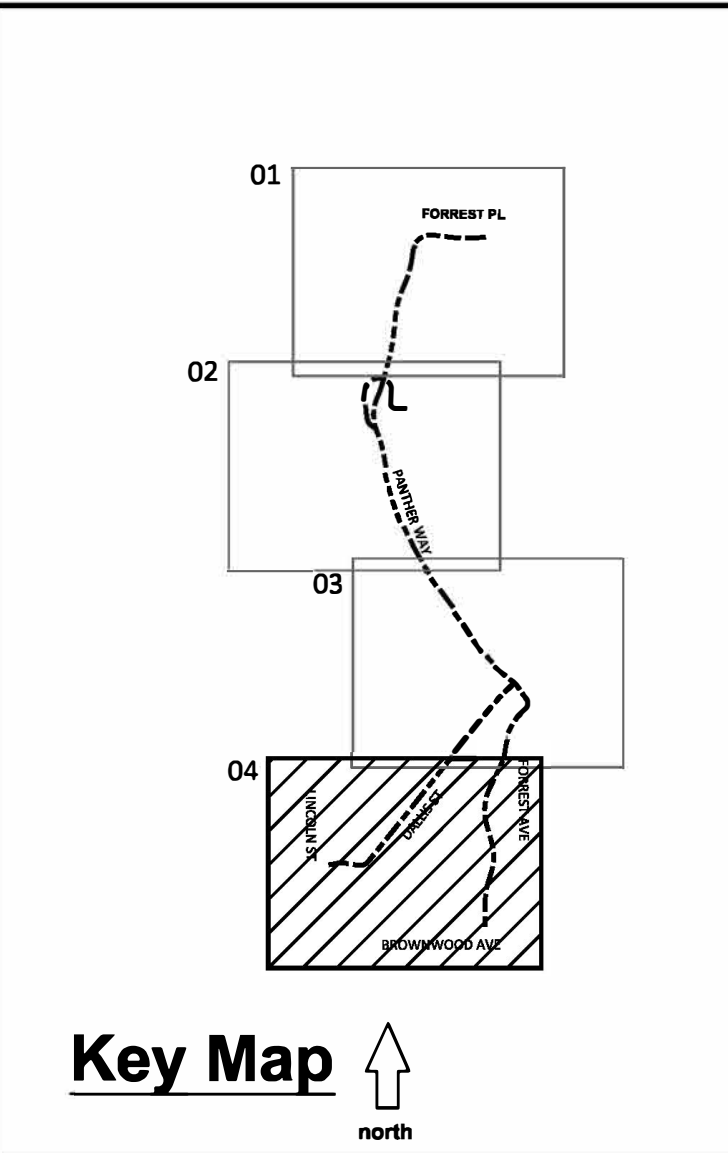
- NOTES:**
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 2. RELOCATE ALL EXISTING ROAD SIGNS TO MIDDLE OF LANDSCAPE BUFFER, UNLESS OTHERWISE NOTED ON PLANS
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B ENLARGEMENT PLAN 'B'
CP-04 1" = 10'-0"

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106 CORPORATE DRIVE CAROLTON, GA 30117 E-MAIL: mab@georgiawest.com



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

PROJECT #	2020-196
PROJECT MANAGER	NS

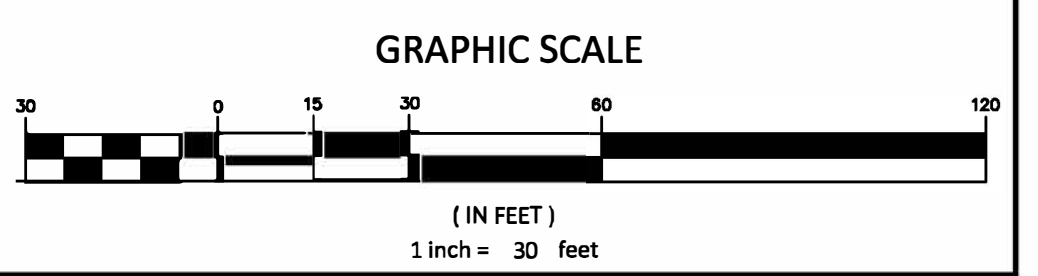
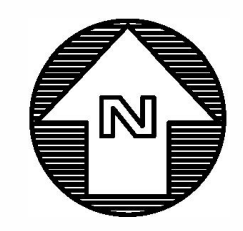
LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA

CONSTRUCTION PLAN

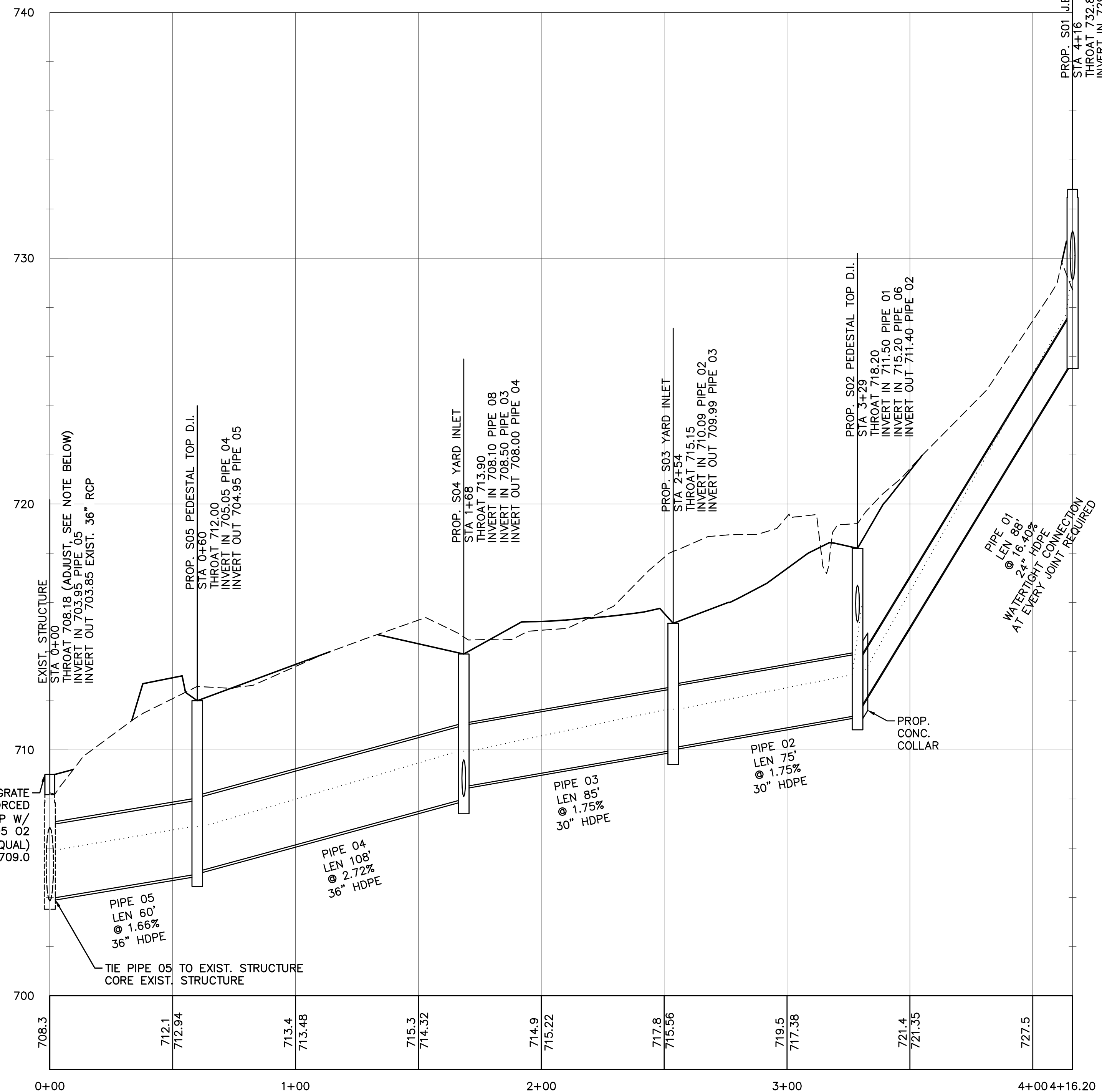
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DATE	MAY 8, 2020

SHEET # **CP-04**

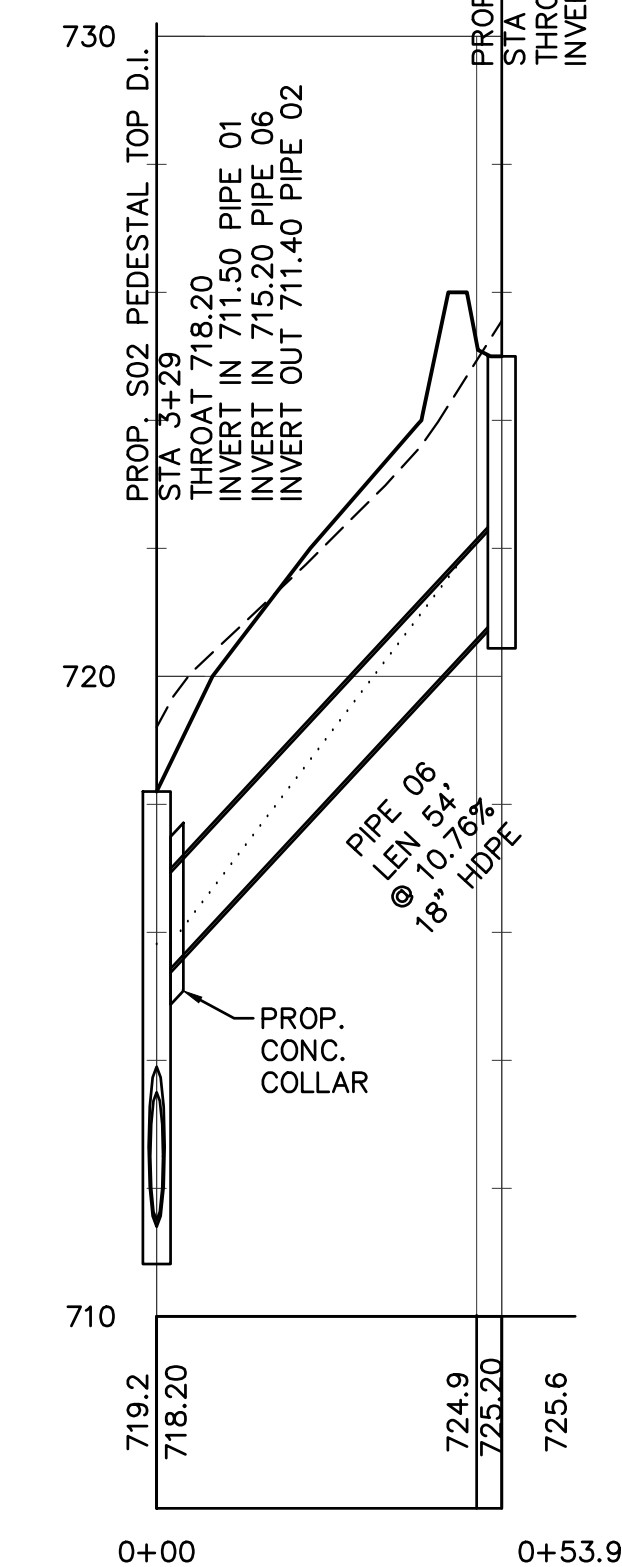
GEORGIA811
www.Georgia811.com
Know what's below. Call before you dig.



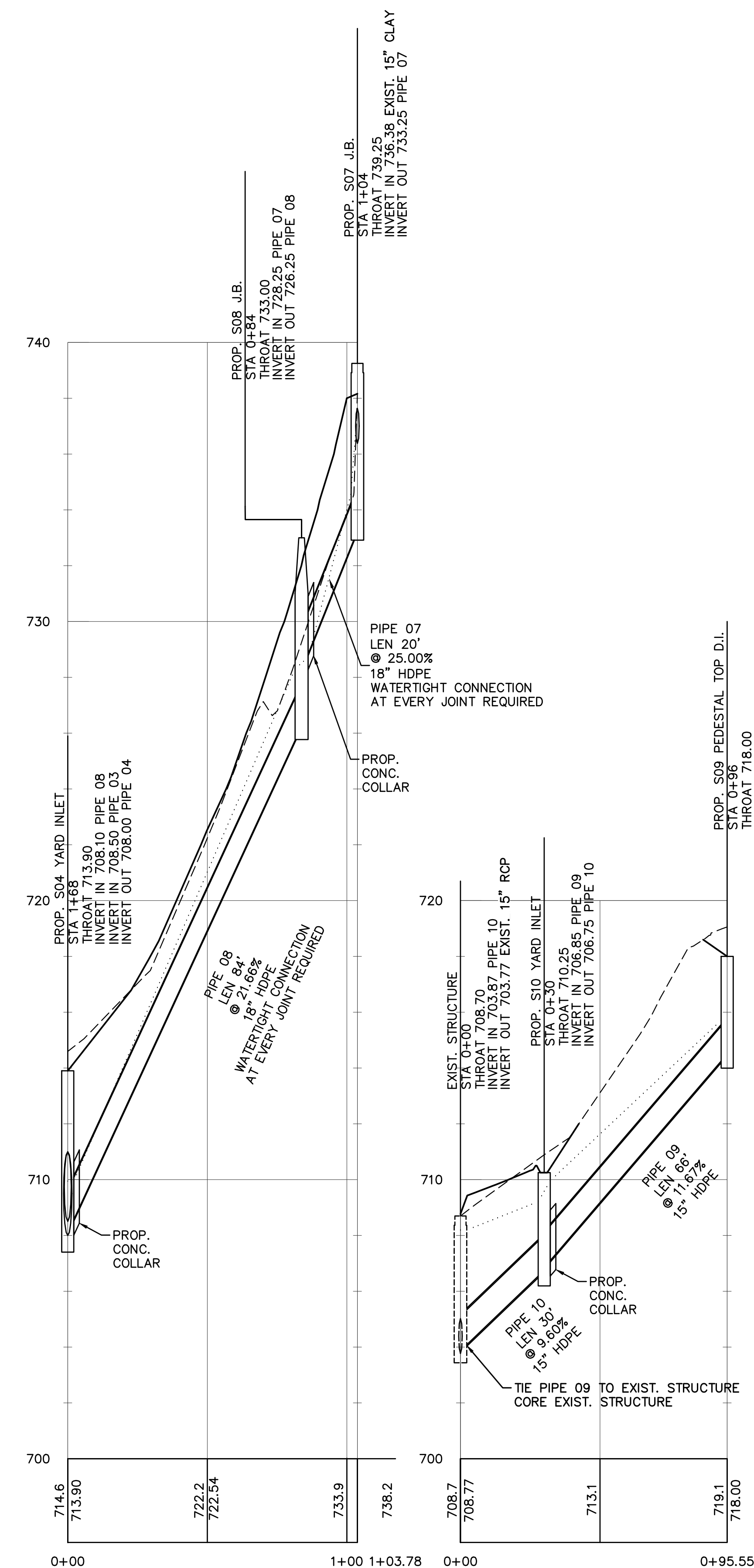
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STORM RUN 1



STORM RUN 2

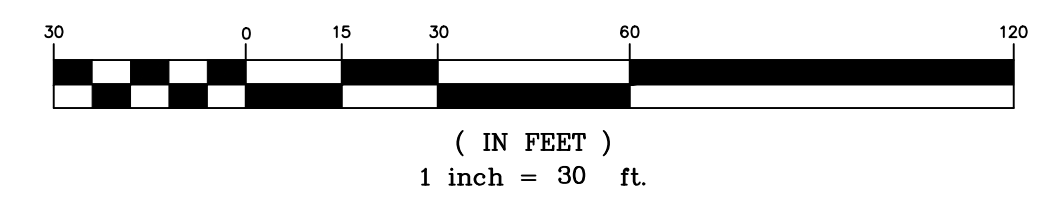


STORM RUN 3

STORM RUN 4

SCALE:
VERT: 1" = 3'
HORZ: 1" = 30'

GRAPHIC SCALE



- STORM SEWERS NOTES:
1. ALL STORM DRAIN PIPE SHALL BE HDPE PER GADOT SPECIFICATION 845.
 2. ALL STORM DRAIN PIPE SHALL CONFORM TO GADOT STANDARD 1030D/1030P FOR STRUCTURAL REQUIREMENTS.
 3. YARD INLETS SHALL HAVE EJ 1205Z FRAME & 1205 O2 GRATE OR APPROVED EQUAL

100 YR. STORM EVENT
HYDRAULIC GRADE LINE

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

PROJECT #	2019 - 196
PROJECT MANAGER	NS

**LaGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LaGRANGE, GA**



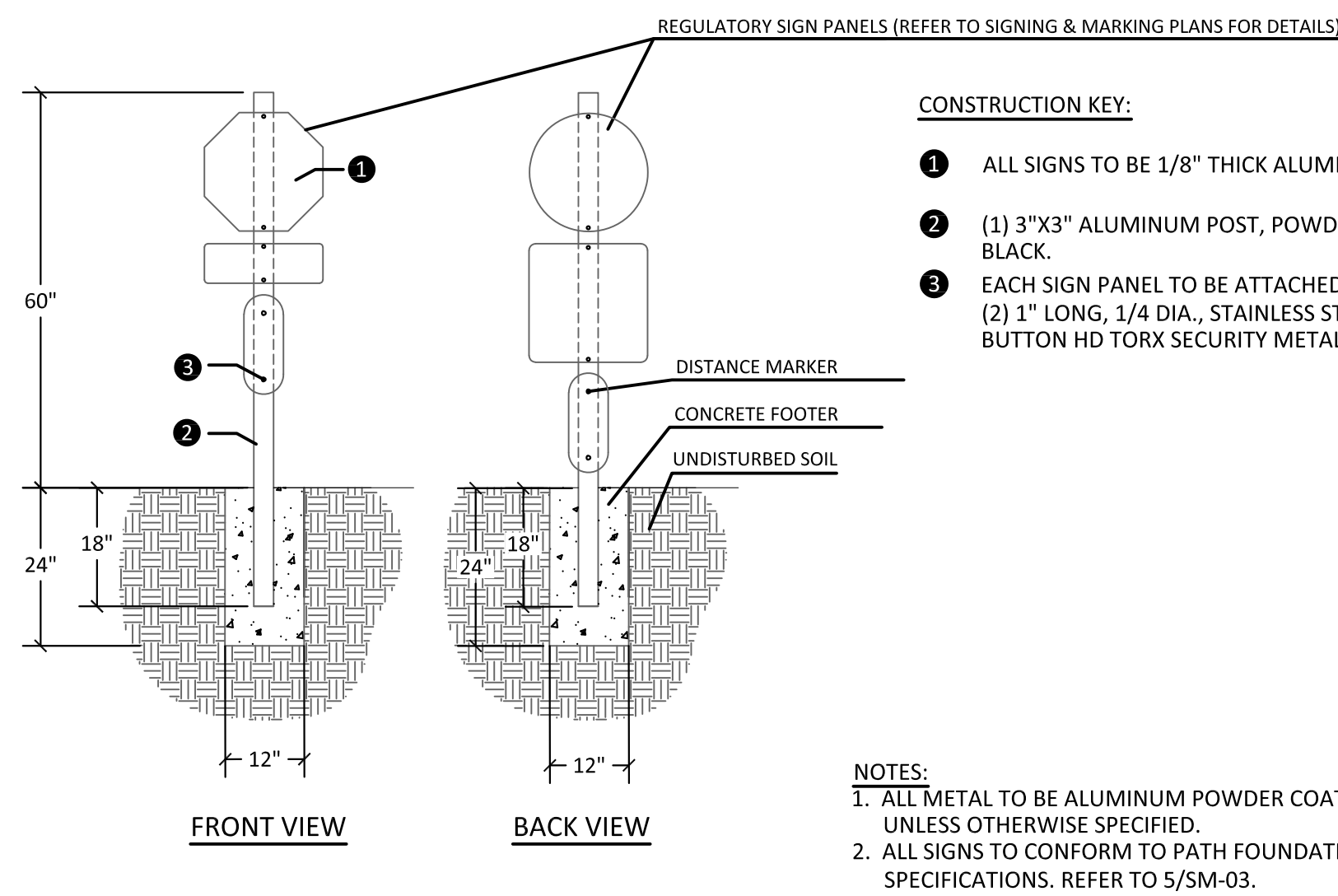
STORM SEWER PROFILES

SCALE	AS SHOWN
DATE	MAY 8, 2020

SHEET # **SP-01**

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2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

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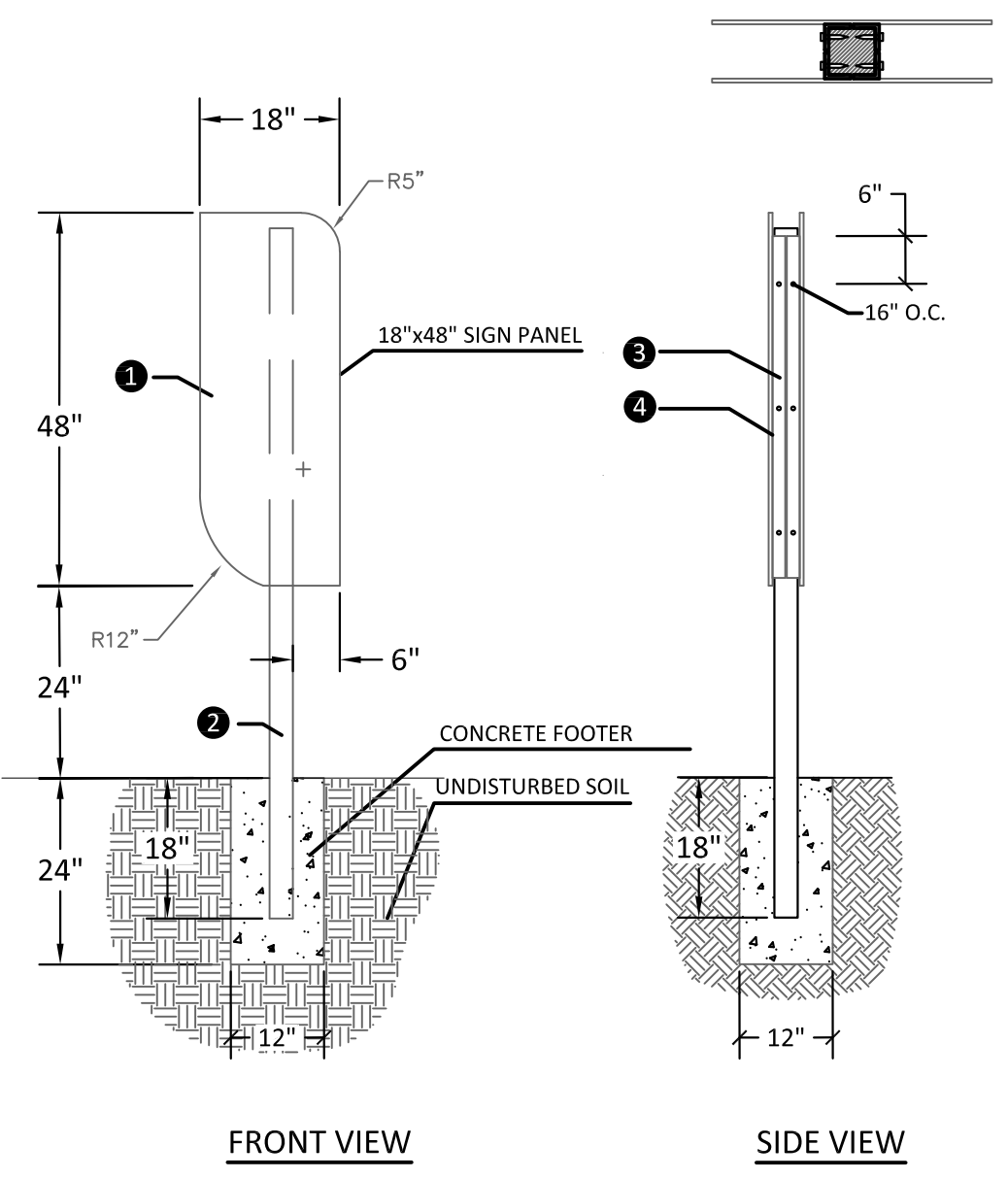


- CONSTRUCTION KEY:**
1. ALL SIGNS TO BE 1/8" THICK ALUMINUM PANEL.
 2. (1) 3"x3" ALUMINUM POST, POWDER COATED BLACK.
 3. EACH SIGN PANEL TO BE ATTACHED TO POST USING (2) 1" LONG, 1/4 DIA., STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.

NOTES:
 1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
 2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO 5/SM-03.

NOT IN CONTRACT

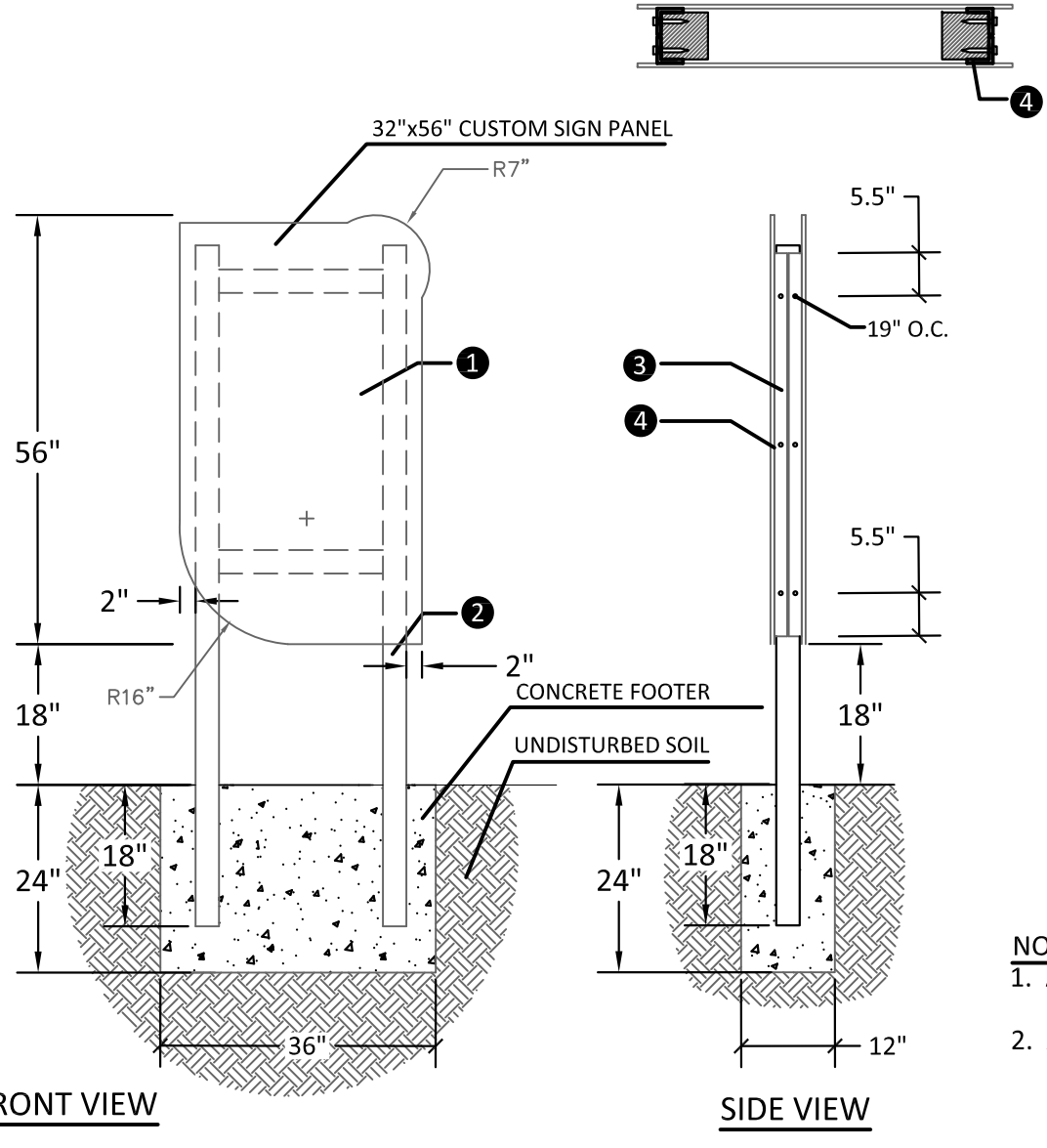
1 REGULATORY SIGN
 SM-00 SCALE: 1/2" = 1'-0"



- CONSTRUCTION KEY:**
1. 1/4" THICK ALUMINUM PANEL.
 2. (1) 3"x3" ALUMINUM POST, POWDER COATED BLACK.
 3. (2) L-CHANNEL BRACKET, MIN. 38" LONG, ATTACHED TO POST AS SHOWN, USING 1.5" LONG, 1/2 STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.
 4. ATTACH SIGN PANEL TO FRONT OF L-CHANNEL BRACKET WITH LOCTITE® AA H4500 ADHESIVE.

NOTES:
 1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
 2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO 5/SM-03.

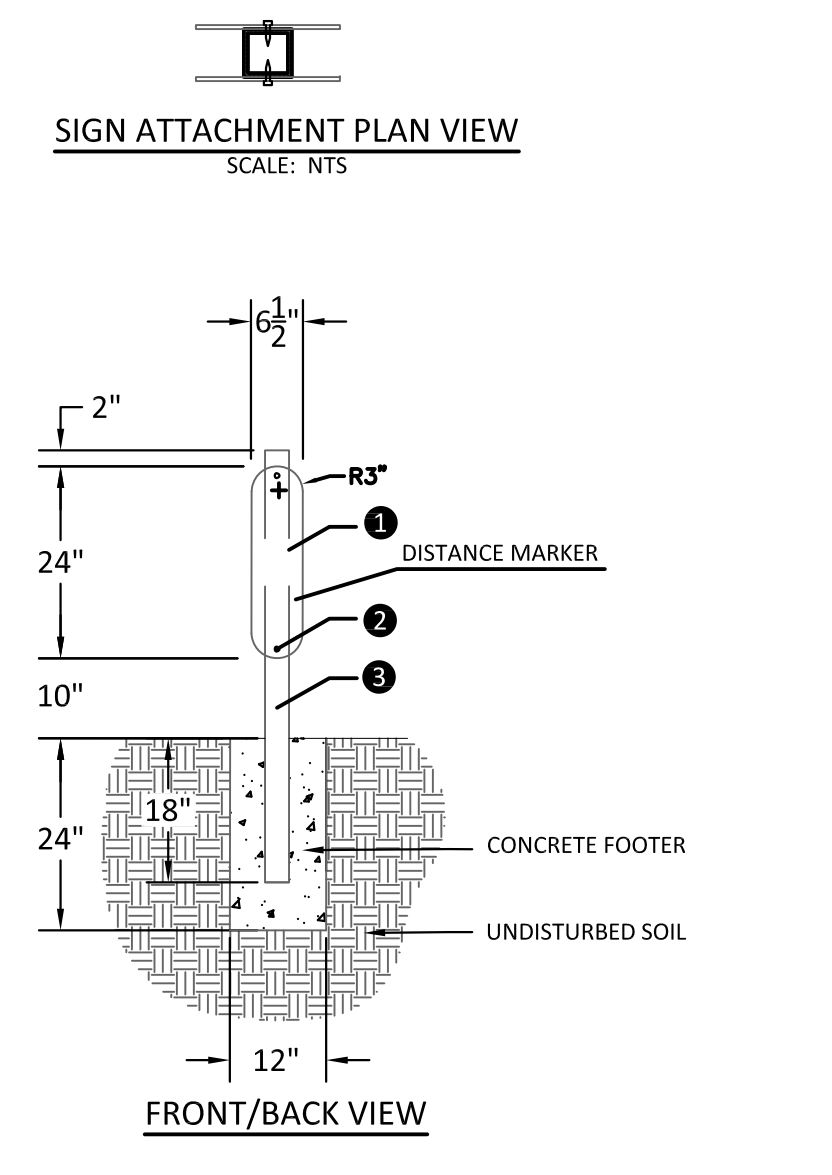
2 DIRECTIONAL SIGN
 SM-00 SCALE: 1/2" = 1'-0"



- CONSTRUCTION KEY:**
1. 1/4" THICK ALUMINUM PANEL.
 2. (2) 3"x3" ALUMINUM POSTS, POWDER COATED BLACK WITH (2) 2"x2", 21" LONG ALUMINUM BRACKET WELDED TO POST.
 3. (2) L-CHANNEL BRACKET, MIN. 49" LONG, ATTACHED TO POST AS SHOWN, USING 2" LONG, 1/2 STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.
 4. ATTACH SIGN PANEL TO FRONT OF L-CHANNEL BRACKET WITH LOCTITE® AA H4500 ADHESIVE.

NOTES:
 1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
 2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO 5/SM-03.

3 KIOSK SIGN
 SM-00 SCALE: 1/2" = 1'-0"



- CONSTRUCTION KEY:**
1. 1/8" THICK ALUMINUM PANEL.
 2. (2) DISTANCE MARKER SIGN PANELS ATTACHED TO POST USING (2) 1" LONG, 1/4 DIA., STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.
 3. (1) 3"x3" ALUMINUM POST, POWDER COATED BLACK.

NOTES:
 1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
 2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO 5/SM-03.
 3. SIGN PANEL DIMENSIONS SHOWN FOR STAND-ALONE DISTANCE MARKER ONLY. REFER TO SIGNING AND MARKING PLANS FOR DETAILS.

4 DISTANCE MARKER
 SM-00 SCALE: 1/2" = 1'-0"

PATH FOUNDATION SIGN SPECIFICATIONS

1. ALUMINUM SIGN BLANKS SHOULD MEET REQUIREMENTS OF GEORGIA DOT SECTION 912--SIGN BLANKS AND PANELS. ALL SIGNS TO BE MADE WITH AT LEAST 0.125-INCH THICK ALUMINUM USING METAL THAT MEETS THE REQUIREMENTS OF ASTM B 209 (B 209M), ALLOY 6061-T-6 OR 5052-H38.

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

RETRO REFLECTIVE VINYL PRODUCT NAME	LIFE EXPECTANCY
3M™ High Intensity Reflective Sheeting	10YR
ORALITE® 5800 High Intensity Grade Reflective Sheeting	10YR
OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE	AT LEAST 10YR

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

ANTI-GRAFFITI FILMS: PRODUCT NAME	LIFE EXPECTANCY
3M™ Protective Overlay Film Series 1160	10YR
OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE	AT LEAST 10YR

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

CUSTOM TEXT AND GRAPHICS: PRODUCT NAME	LIFE EXPECTANCY
Direct Print to Aluminum with Grip Gard BC System with satin, anti-graffiti clear-coat	10YR
OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE	AT LEAST 10YR

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

5. ON STANDARD SIGNS, THE BLACK BORDER IS INSET 3/8" FROM EACH EDGE. THE THICKNESS OF THE BLACK BORDER IS ALSO 1/4", OR 18 POINT. SIGNS AT OR LARGER THAN 24" X 36" MAY COME FROM THE ARCHITECTURAL FIRM WITH LARGER BORDERS. THESE BORDERS MUST BE CONSISTENT ON ALL FOUR EDGES AND MATCH STANDARD DIE CUT CURVES ON THE CORNERS.

6. PATH GREEN IS 85 - 20 - 69 - 4 IN CMYK VALUES. YELLOW ON PATH SIGNS IS 0 - 15 - 100 - 0. OTHER COLORS WILL BE DETERMINED FROM THE VECTOR FILES IN THE SIGN MATRIX.

SIGN MANUFACTURERS:

- SIGN MANUFACTURER CONTACT TO BE APPROVED BY THE CITY.

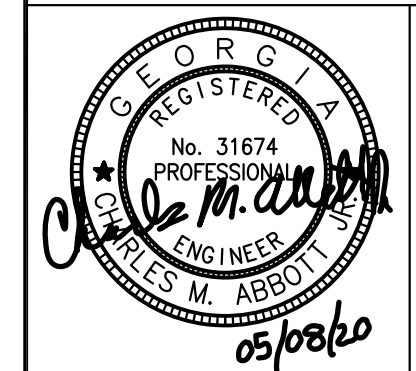
KAIZENCOLLABORATIVE
 2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

GEORGIA & WEST, INC.
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 CAROLTON, GA 30117
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 E-MAIL: mab@georgiawest.com

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PROJECT #	2020-196
PROJECT MANAGER	NS

LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA



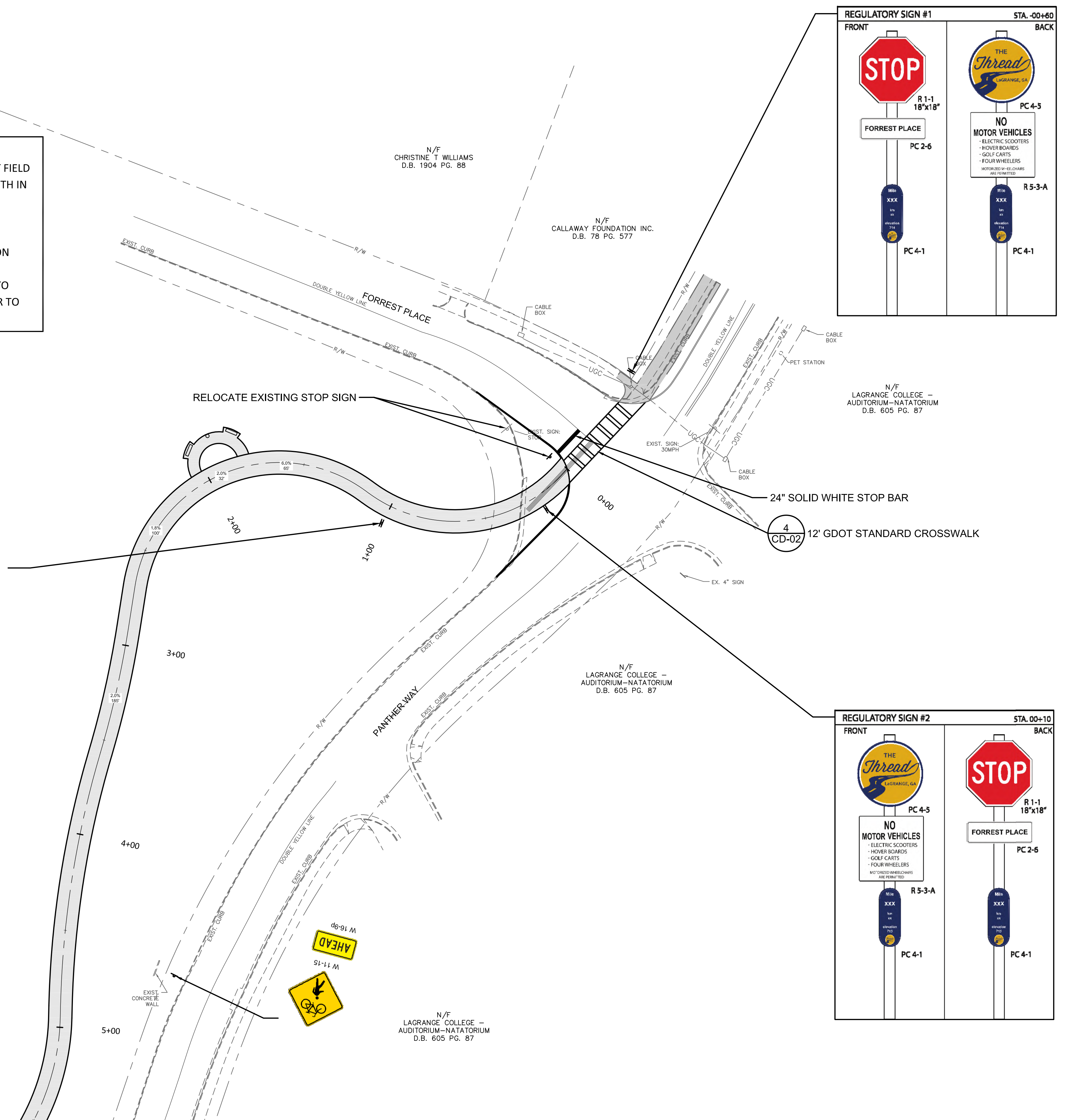
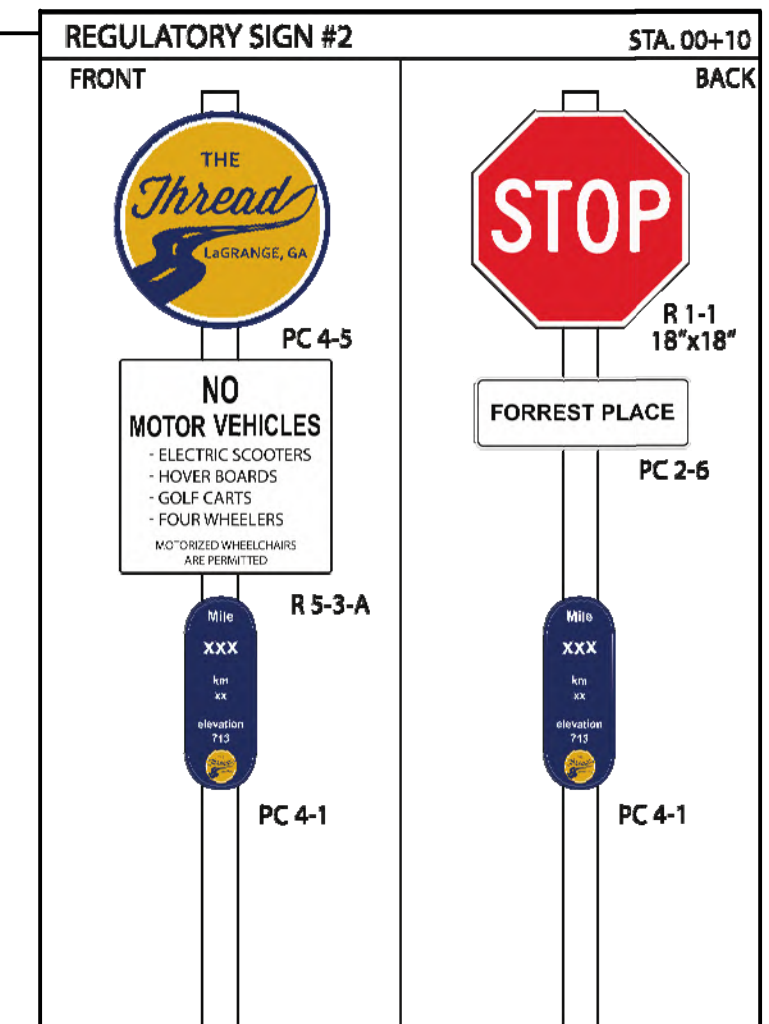
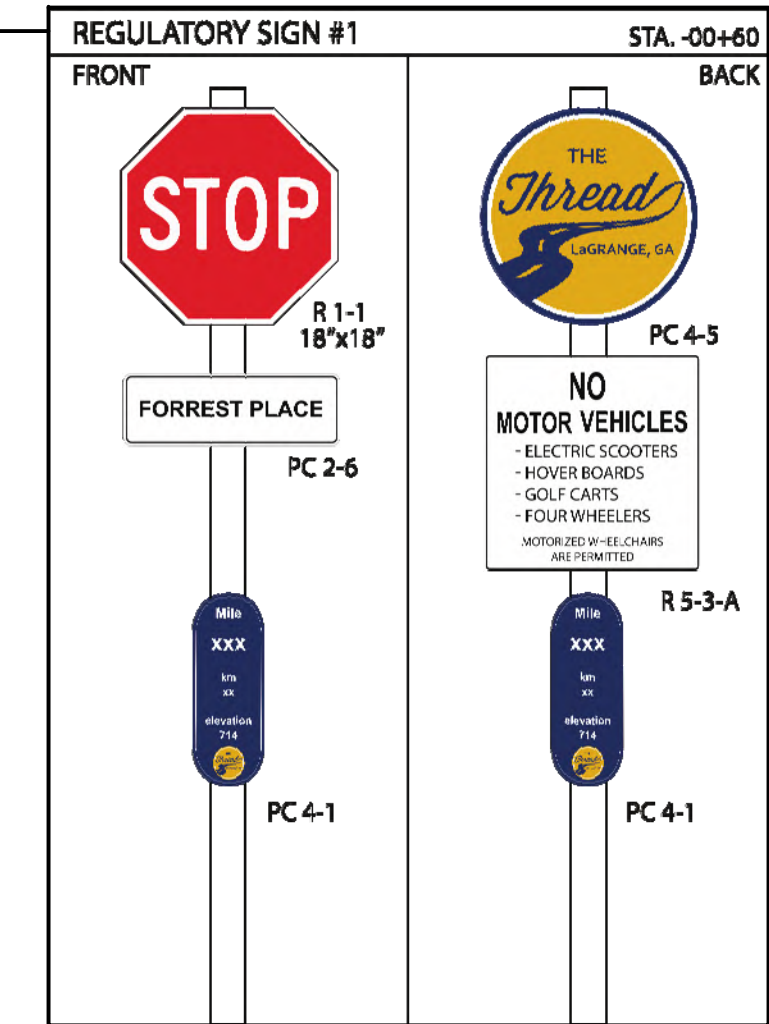
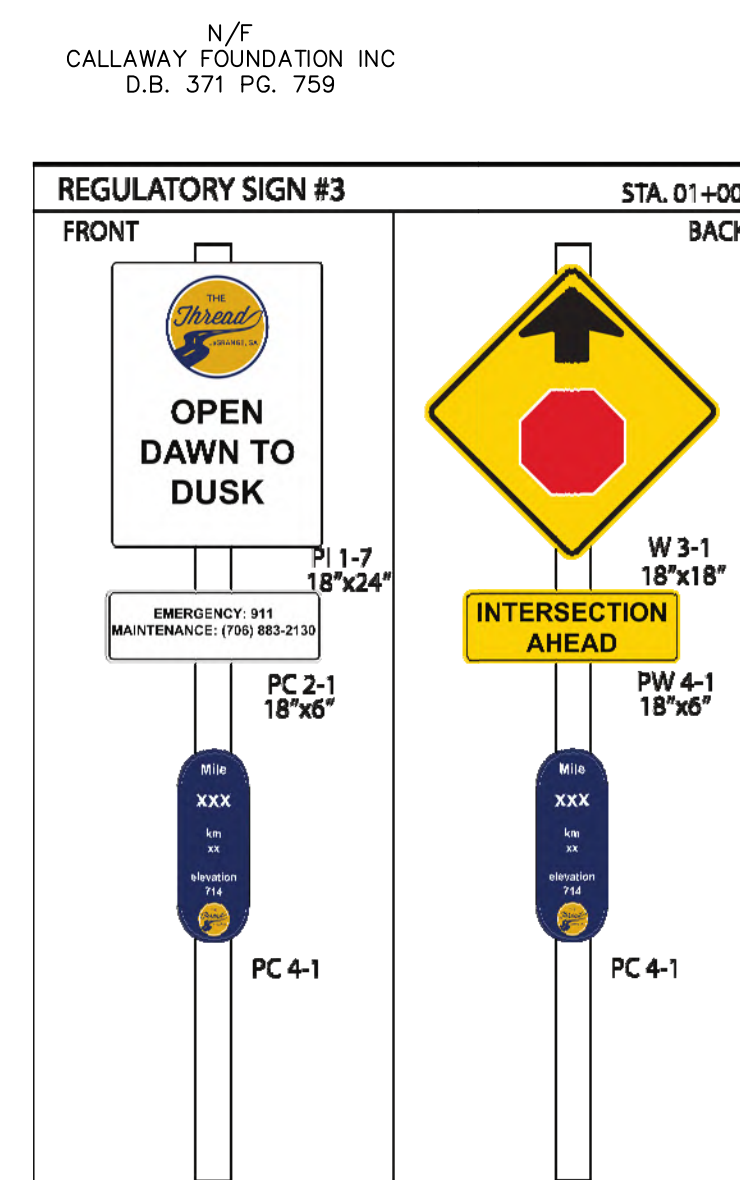
SIGNING & MARKING DETAILS

SCALE	AS SHOWN
DATE	MAY 8, 2020

SHEET # **SM-00**

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



N/F
CALLAWAY FOUNDATION INC.
D.B. 371 PG. 759

N/F
CHRISTINE T WILLIAMS
D.B. 1904 PG. 88

N/F
CALLAWAY FOUNDATION INC.
D.B. 76 PG. 577

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

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

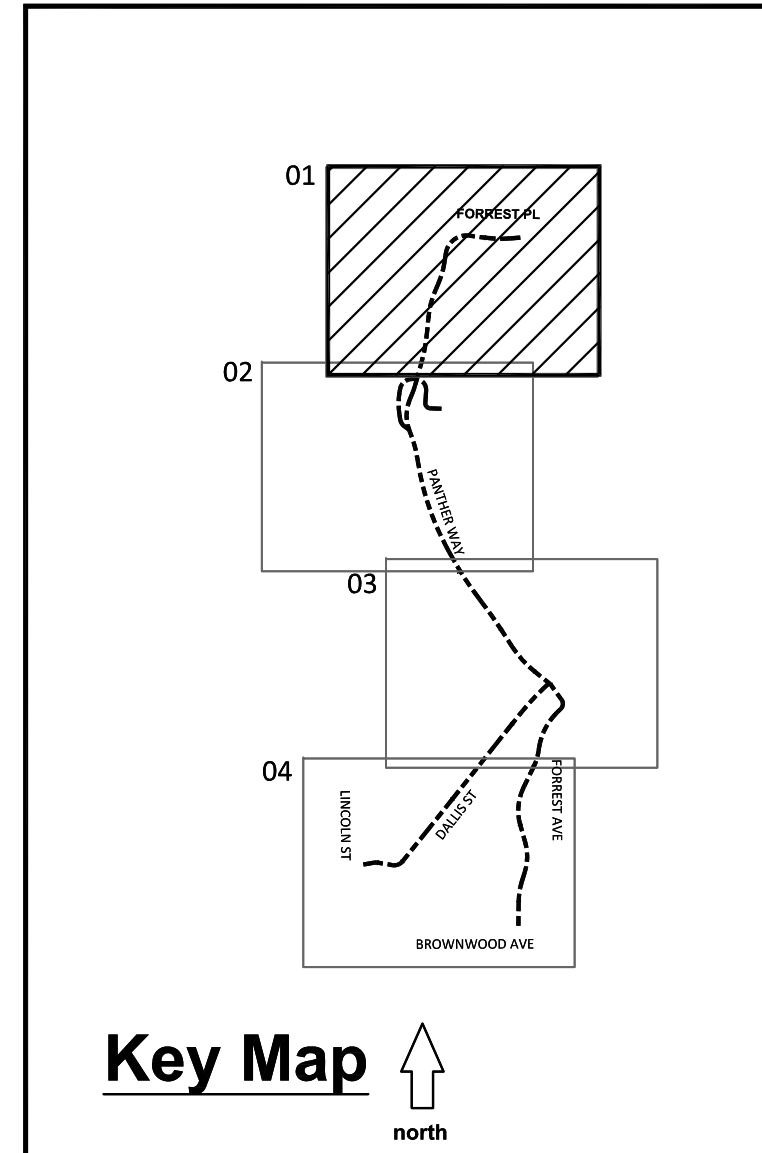
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CALLAWAY FOUNDATION INC.
D.B. 371 PG. 759

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

MATCHLINE STA 5+50
SEE SHEET SM-02

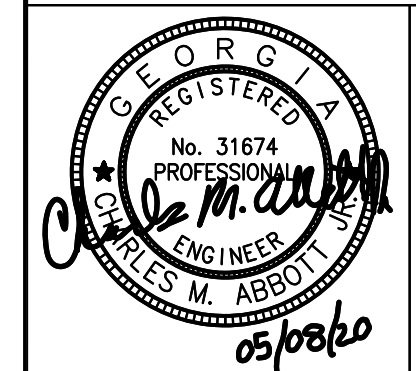
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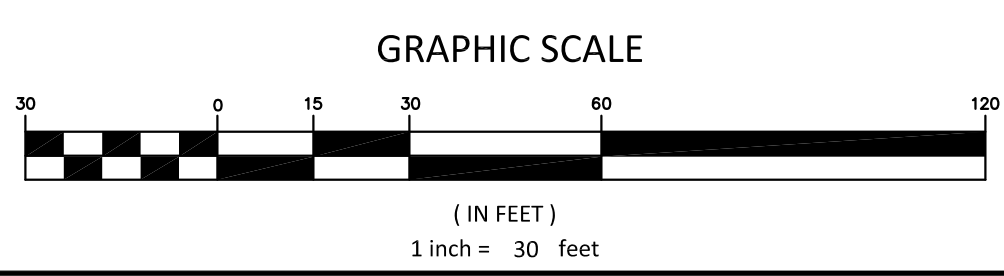
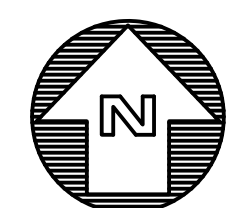
DATE	DESCRIPTION
03/17/2020	50% REVIEW
04/21/2020	90% REVIEW
05/08/2020	100% ISSUE FOR PERMIT

PROJECT #	2020-196
PROJECT MANAGER	NS
LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA	



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SHEET #	SM-01



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N/F
JAMES & KATHRYN GENOVA
D.B. 1917 PG. 426

N/F
KATHIE B SUTTLES
D.B. 1404 PG. 540

N/F
JUSTIN D & KRISTINA THURMAN
D.B. 1791 PG. 587

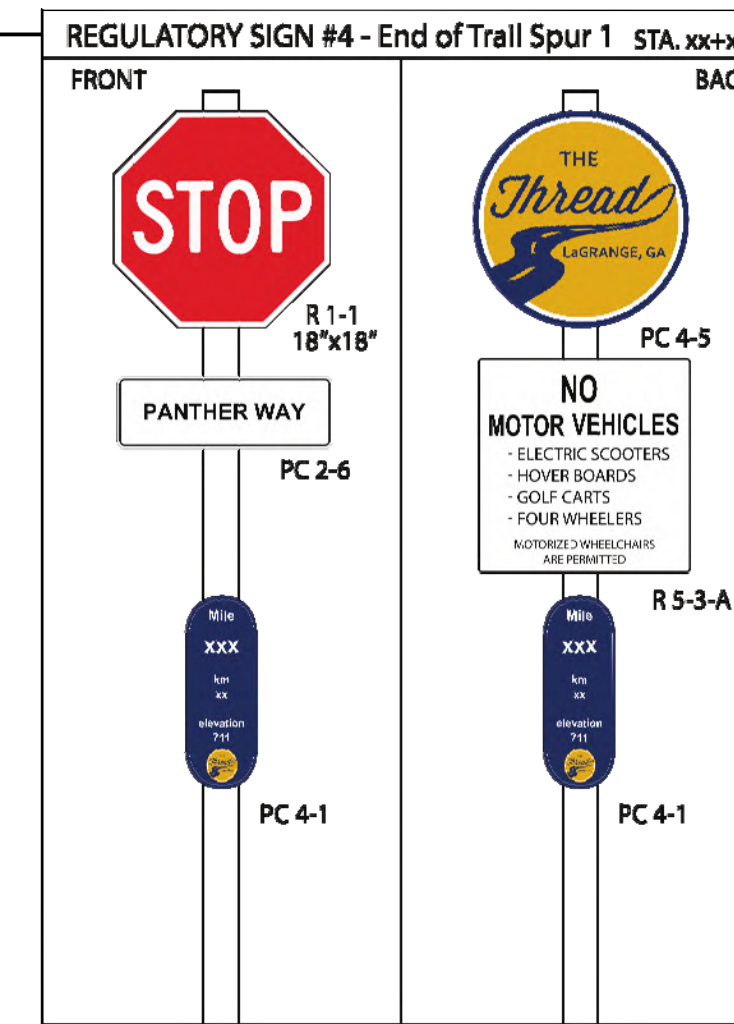
N/F
WILLIAM ROBERT MYHAND
D.B. 1362 PG. 464

N/F
FRED THOMAS FINCHER
D.B. 185 PG. 173

N/F
SUSAN & CLIFFORD M MOXON
D.B. 1790 PG. 409

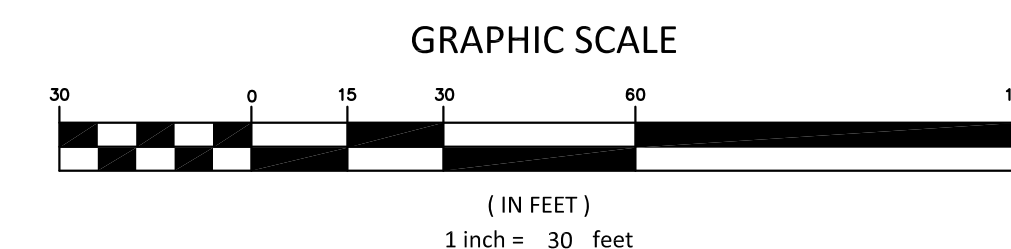
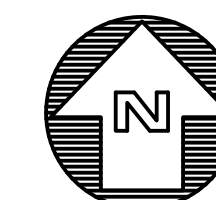
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CALLAWAY FOUNDATION INC
D.B. 371 PG. 759

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



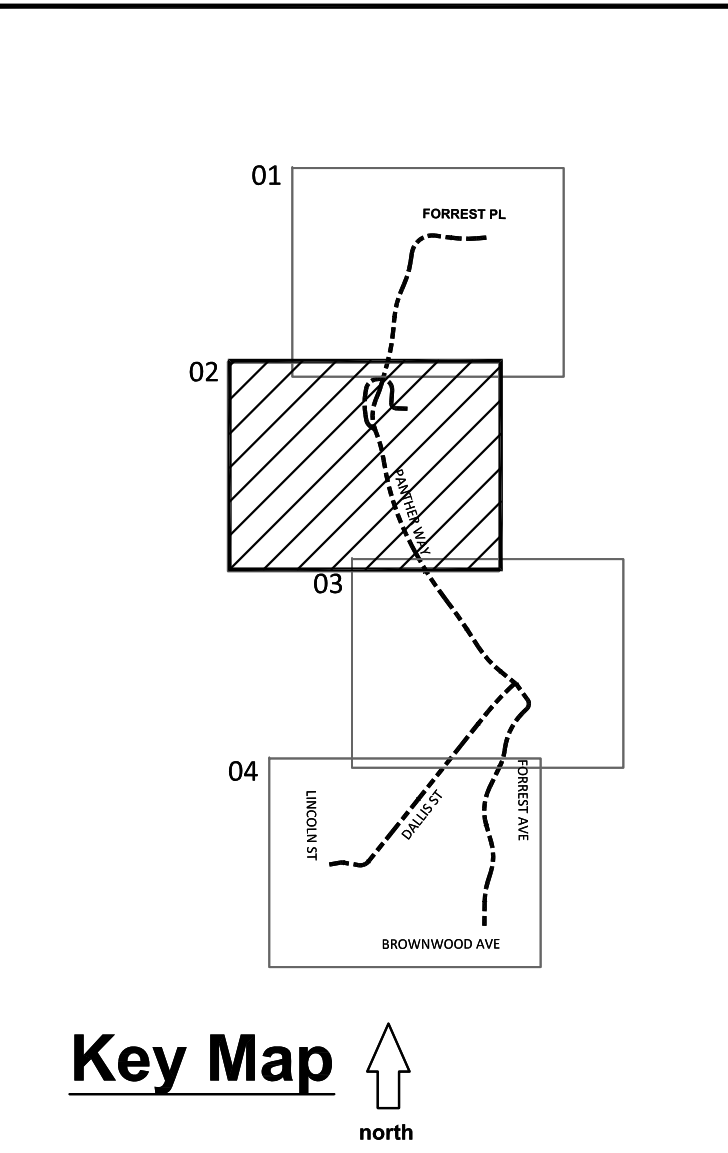
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MATCHLINE STA 11+50
SEE SHEET SM-03



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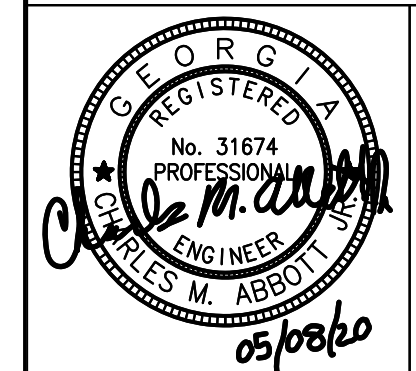
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**LAGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LAGRANGE, GA**

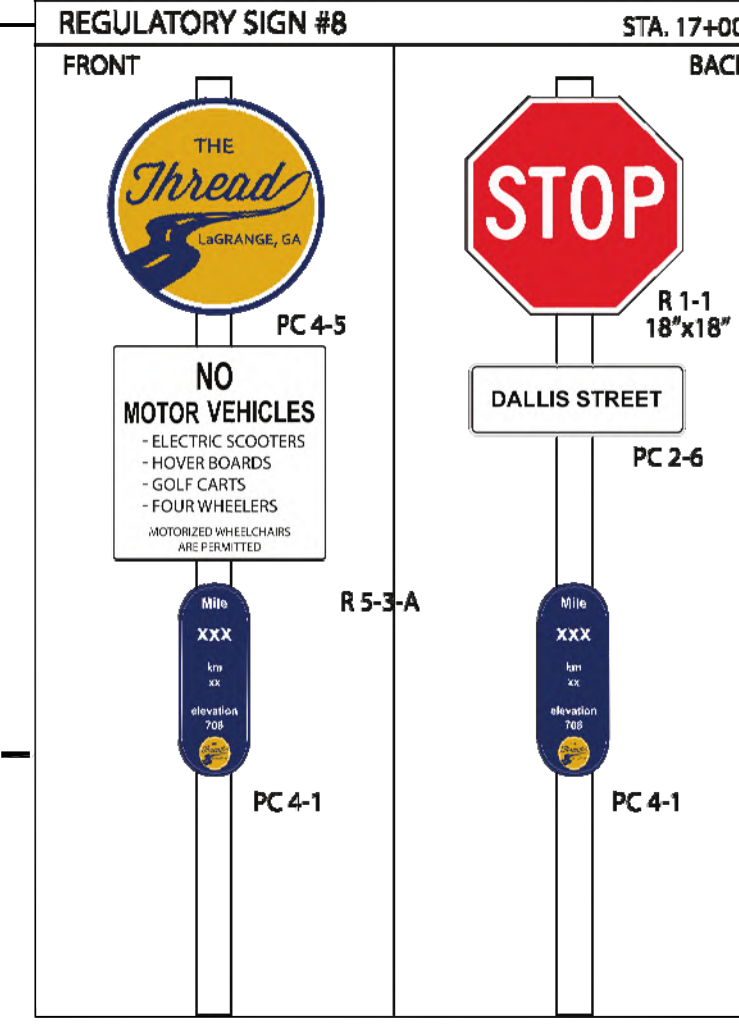
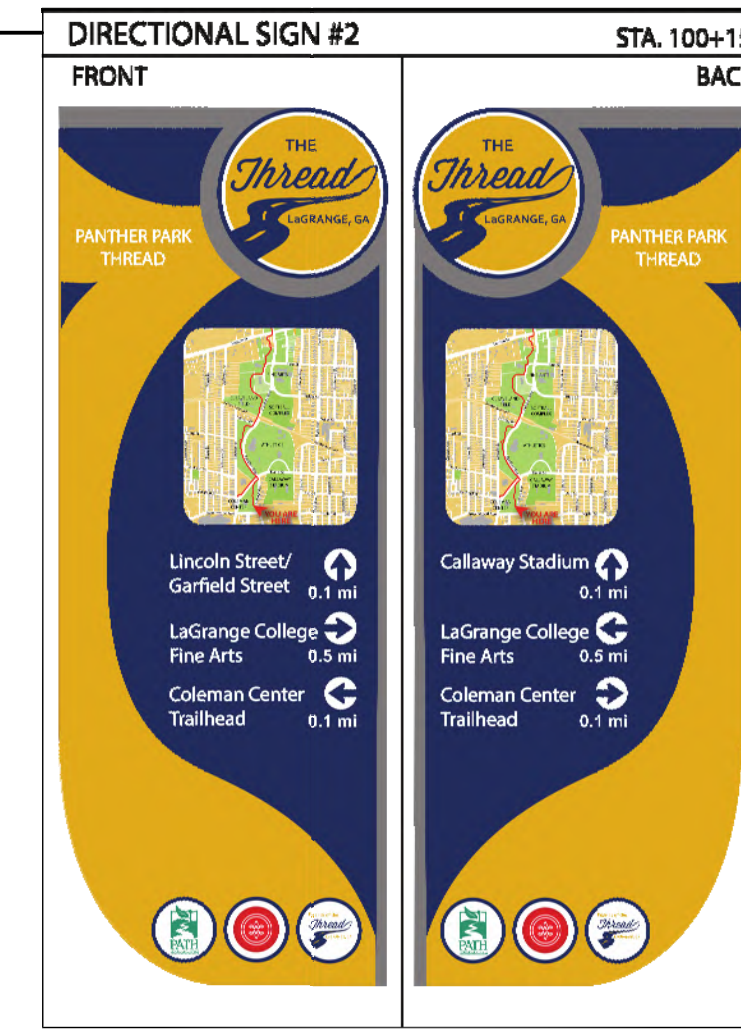
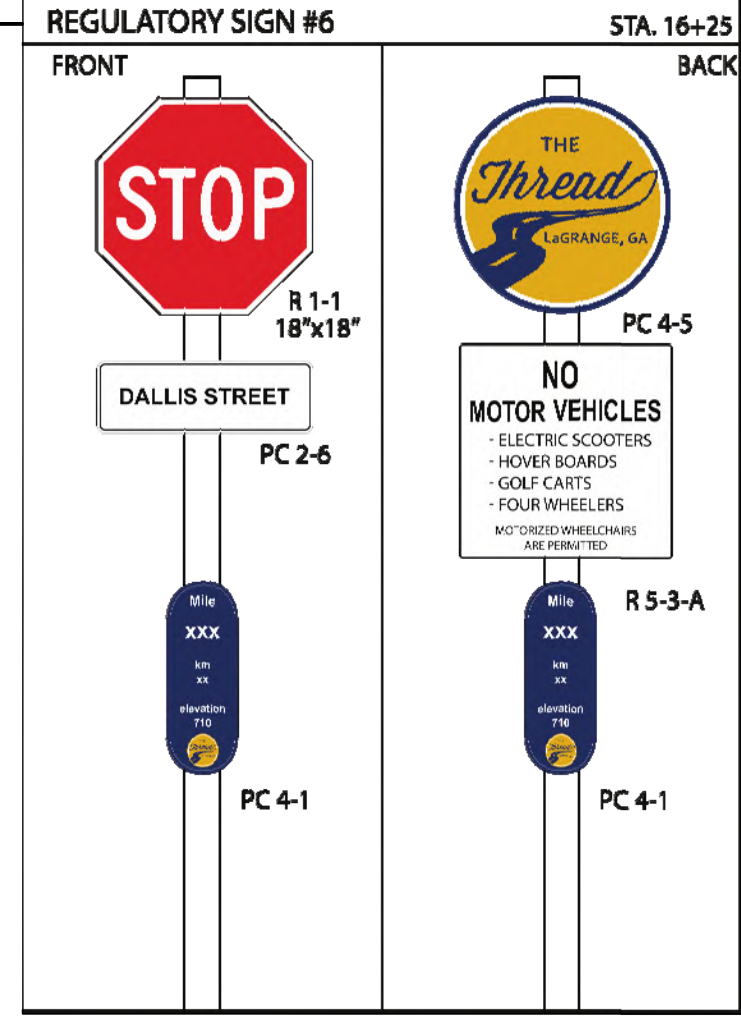
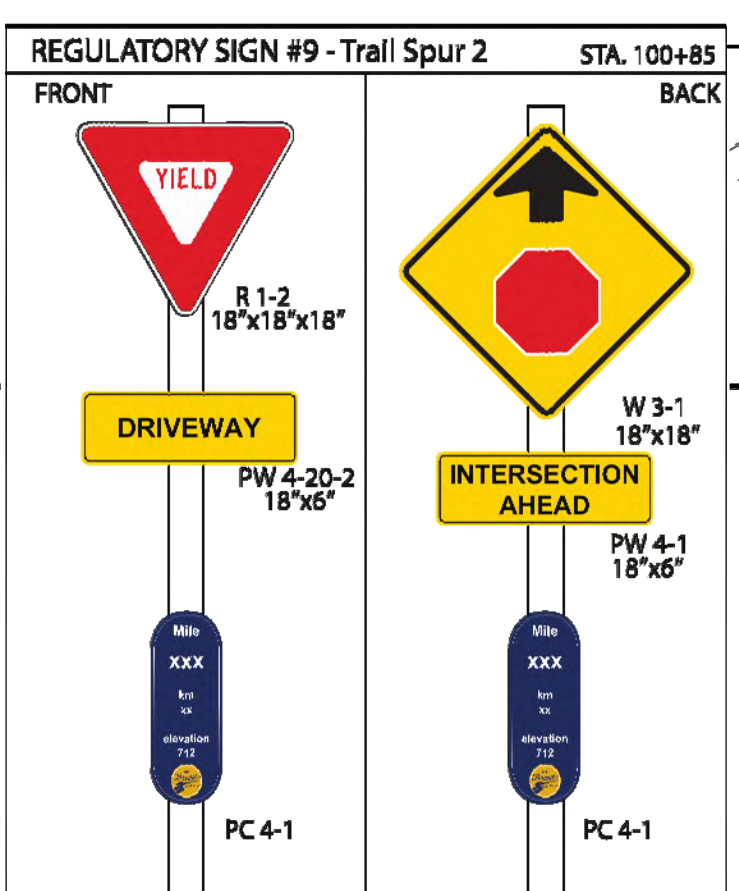
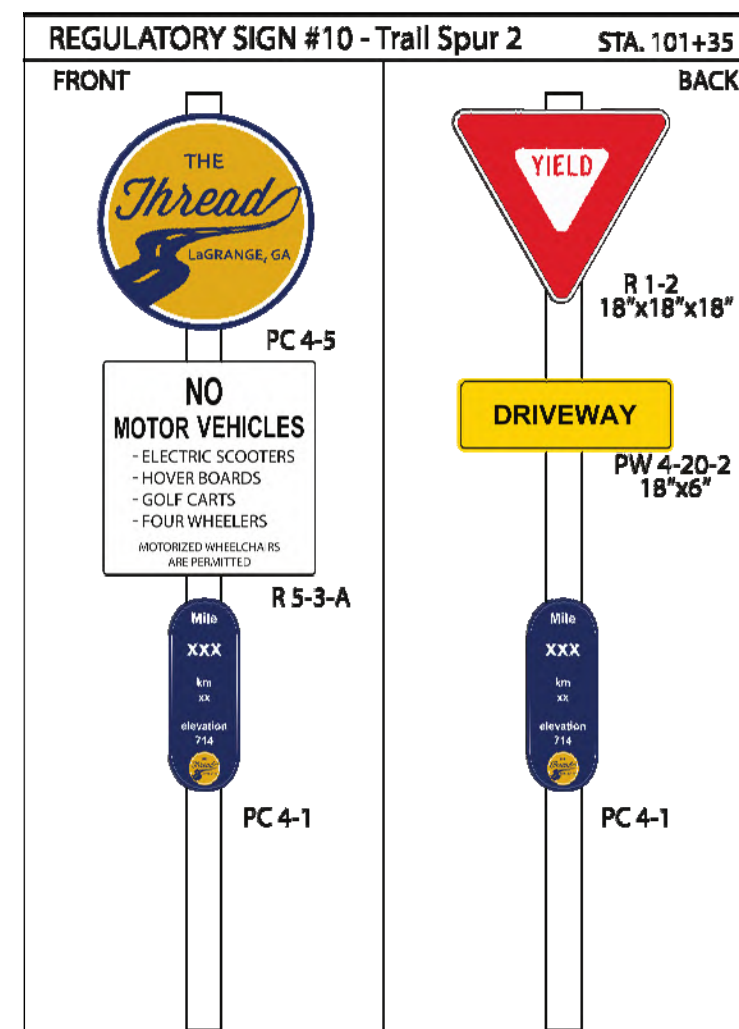
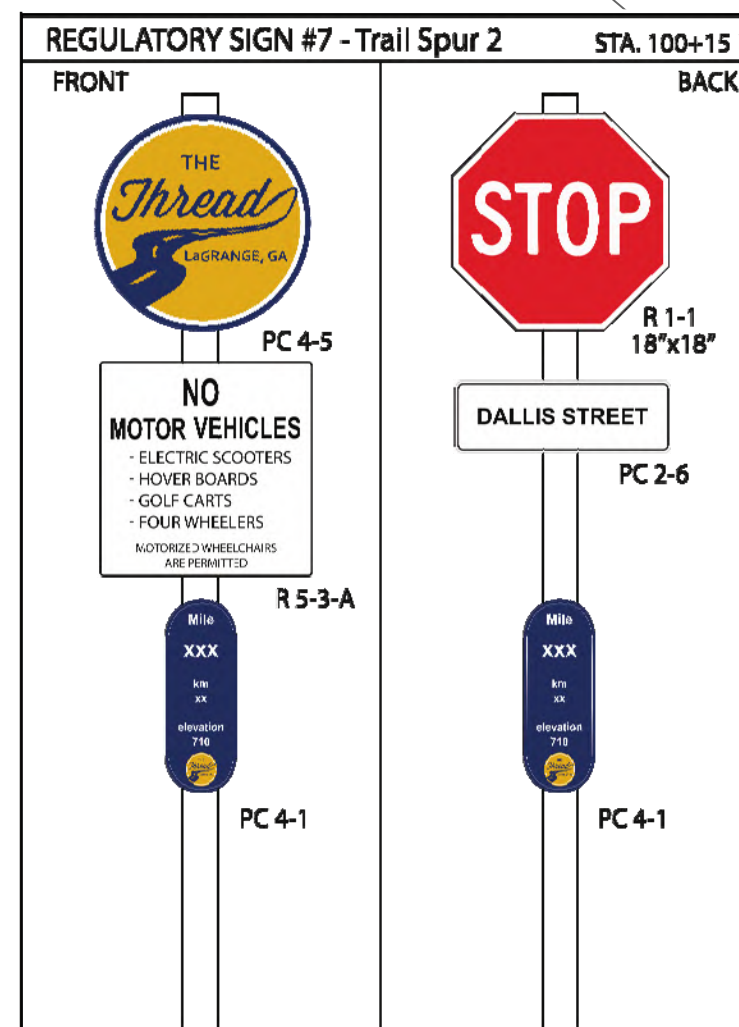
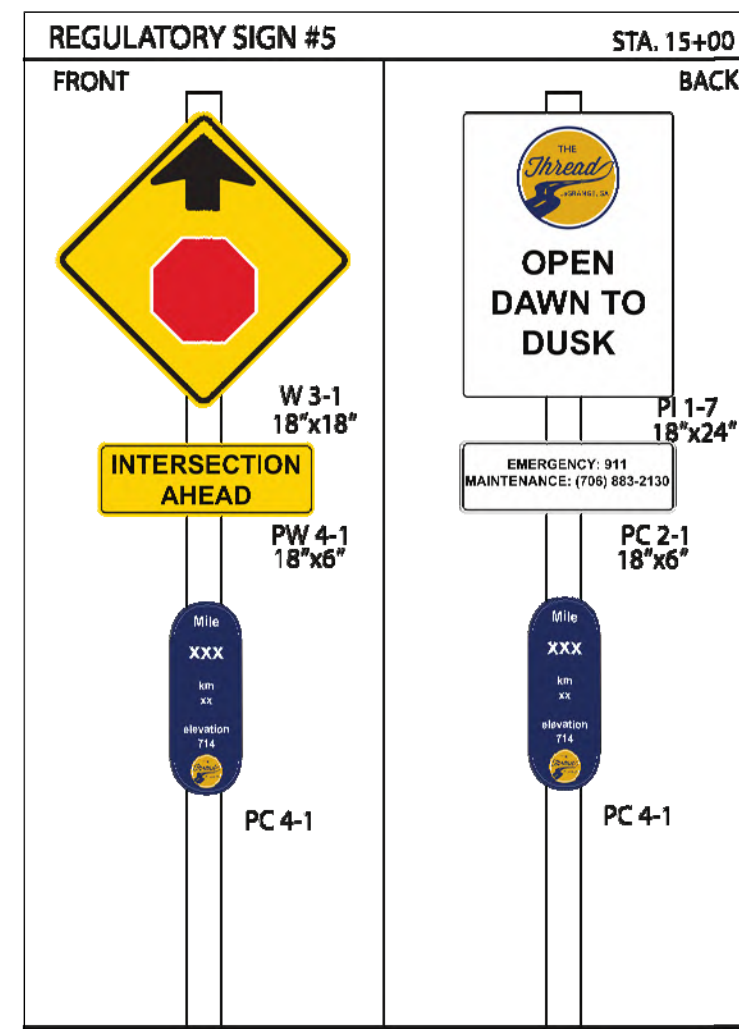
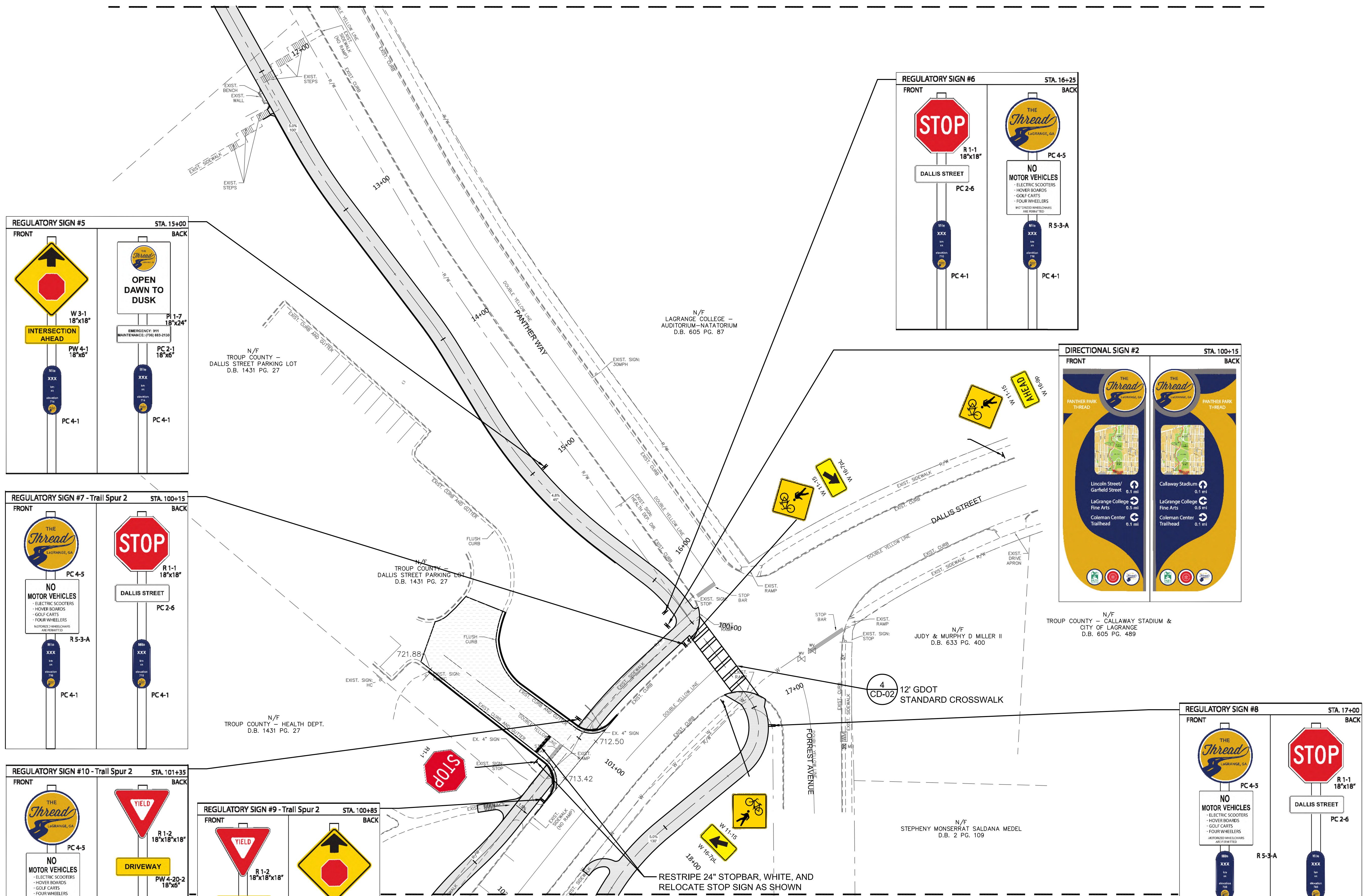


**SIGNING & MARKING
PLAN**

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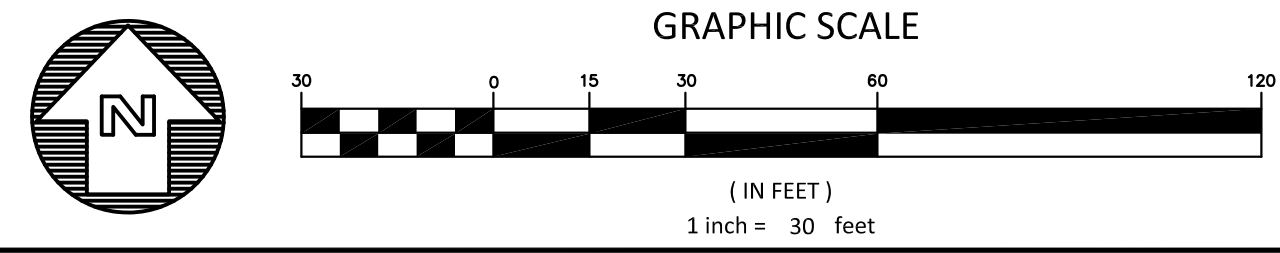
SHEET # **SM-02**

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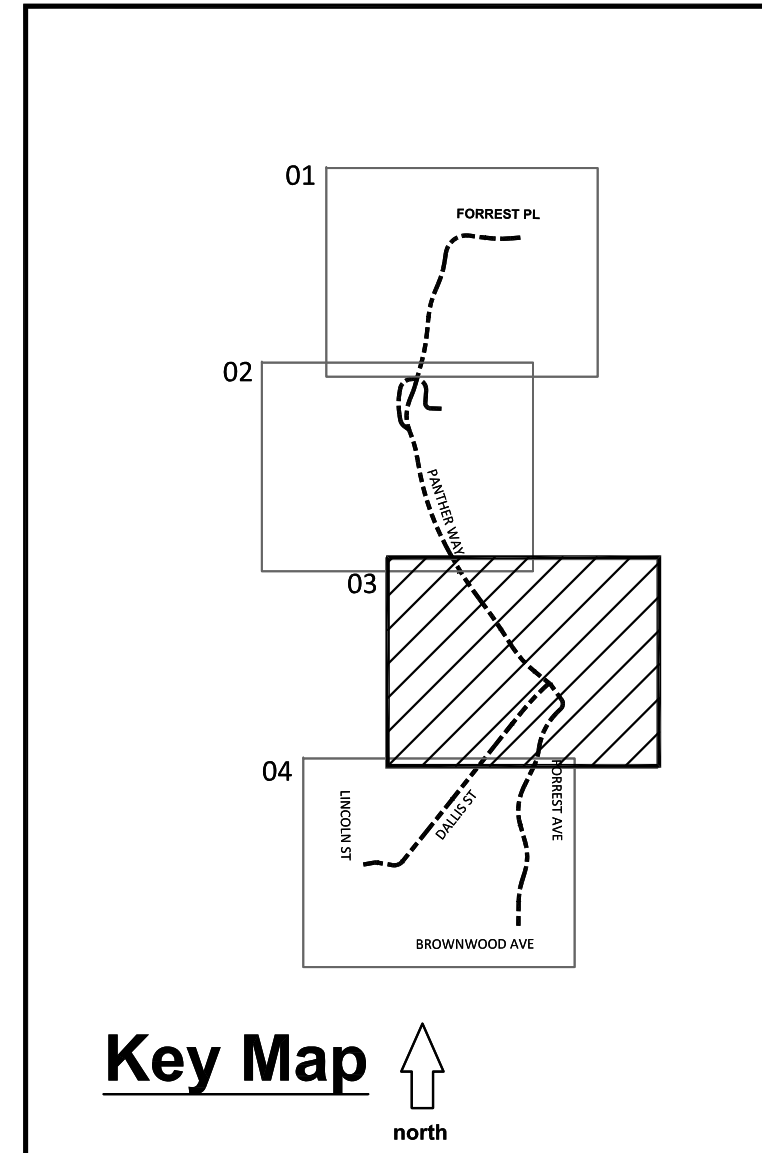
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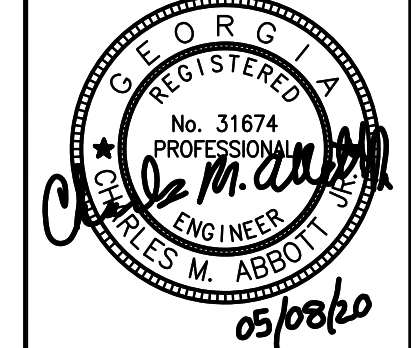
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LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA



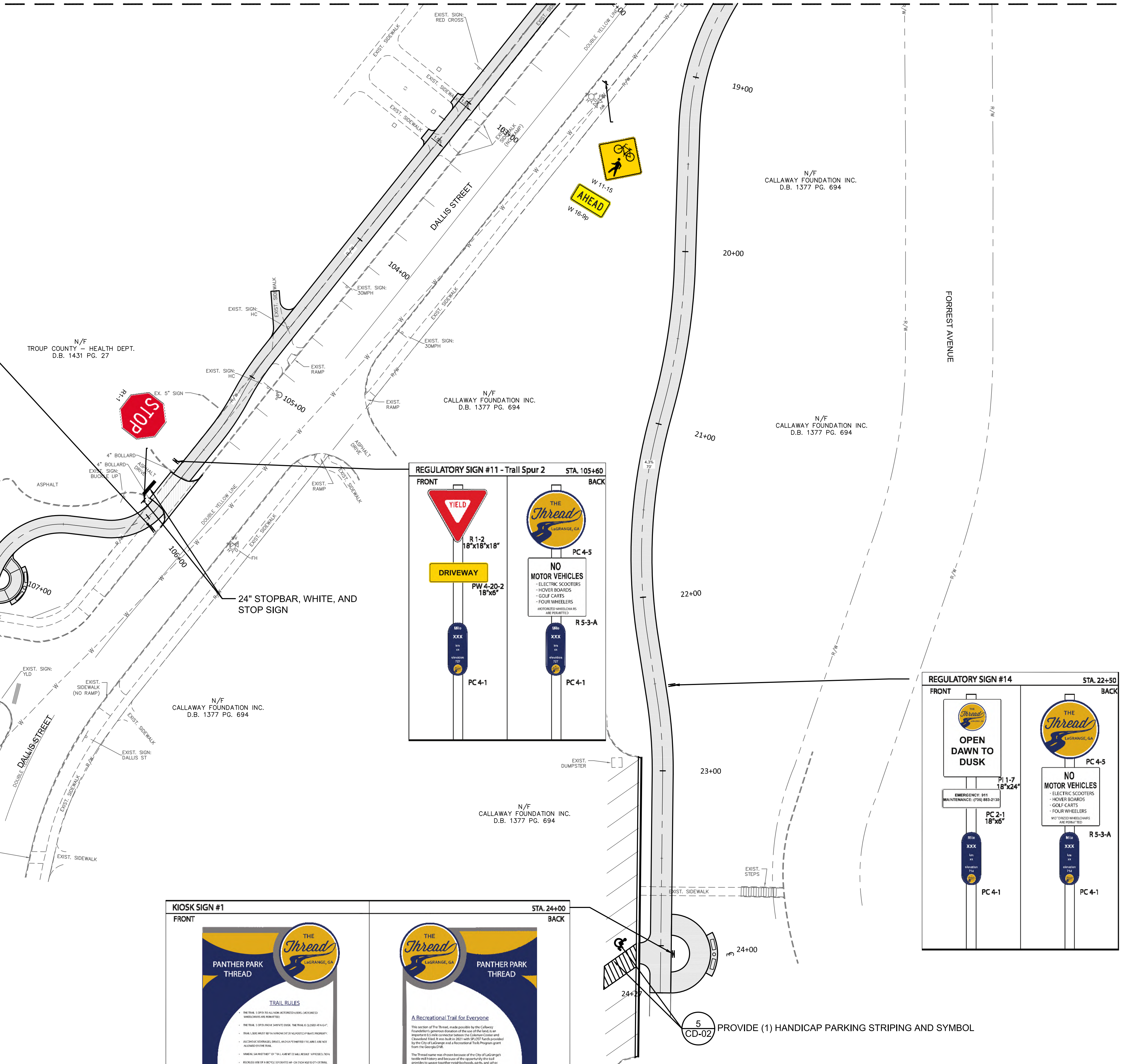
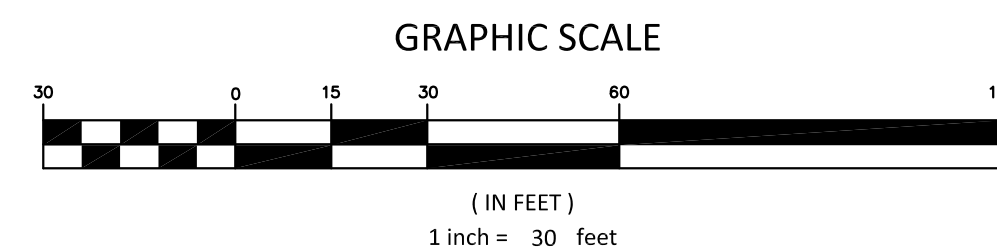
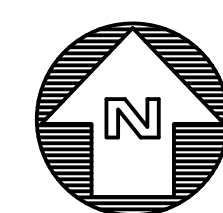
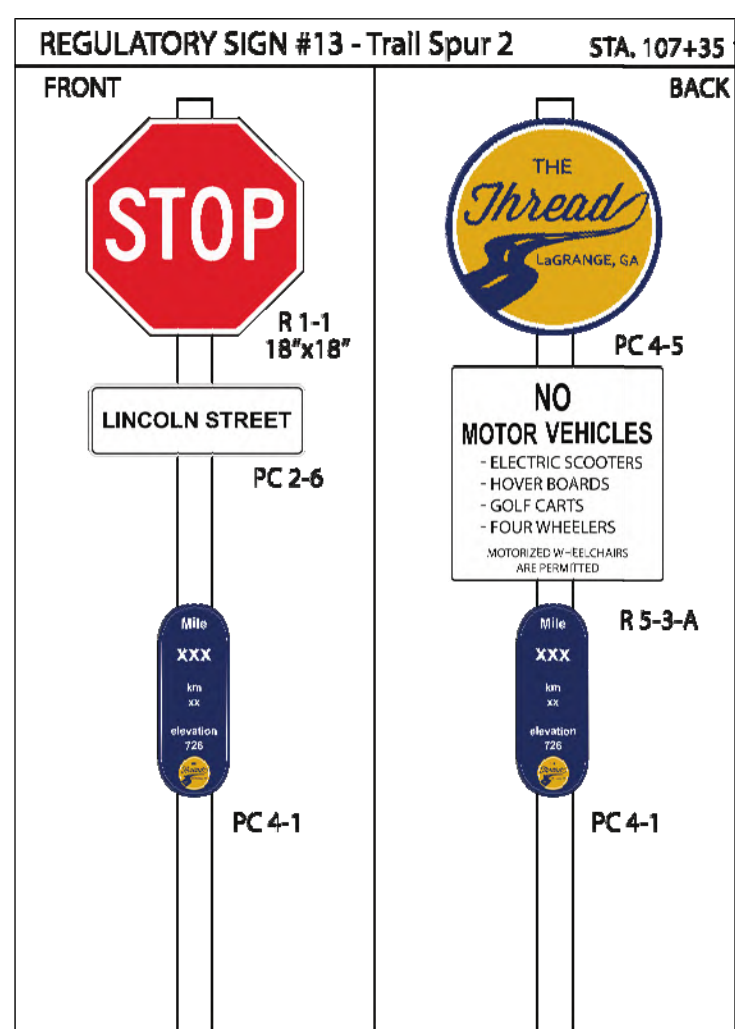
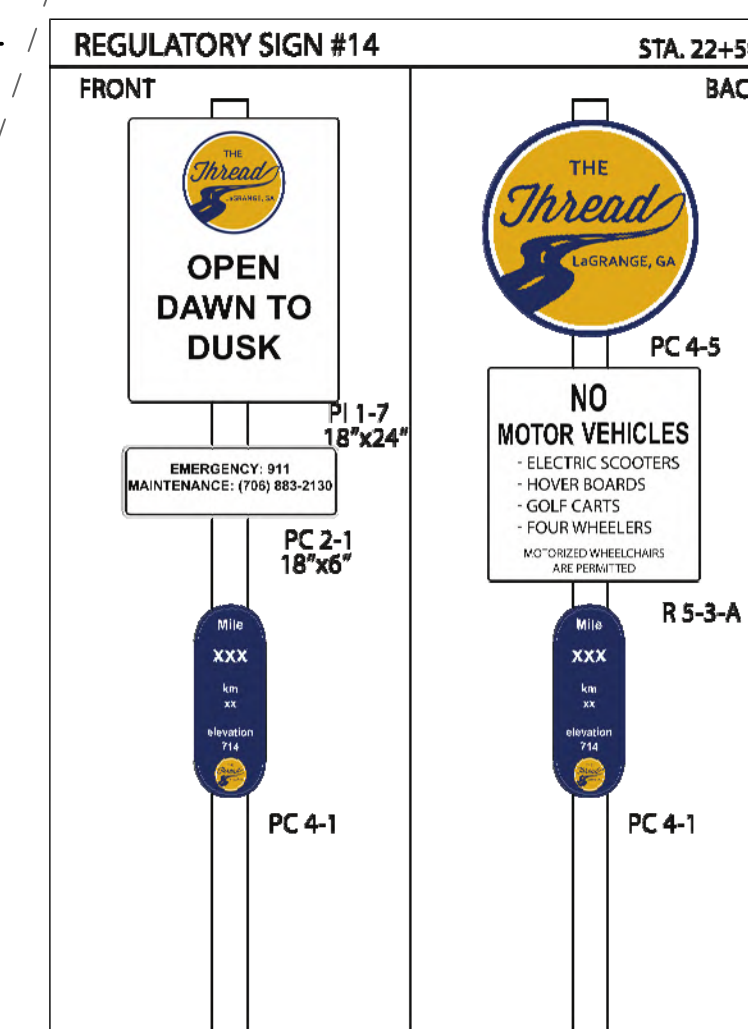
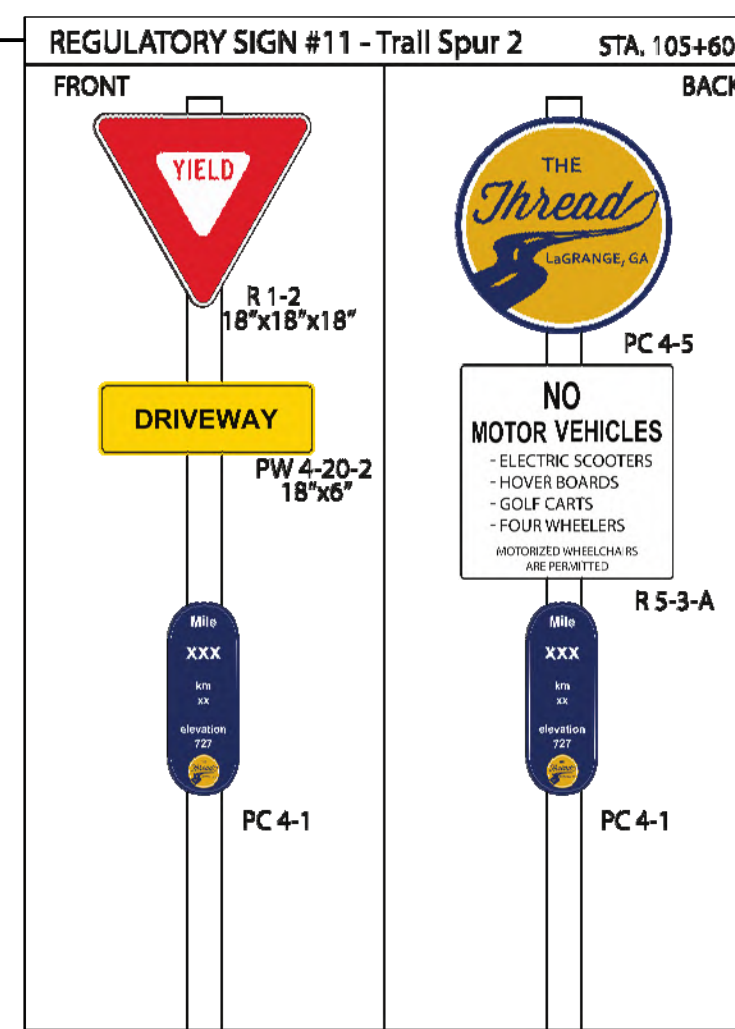
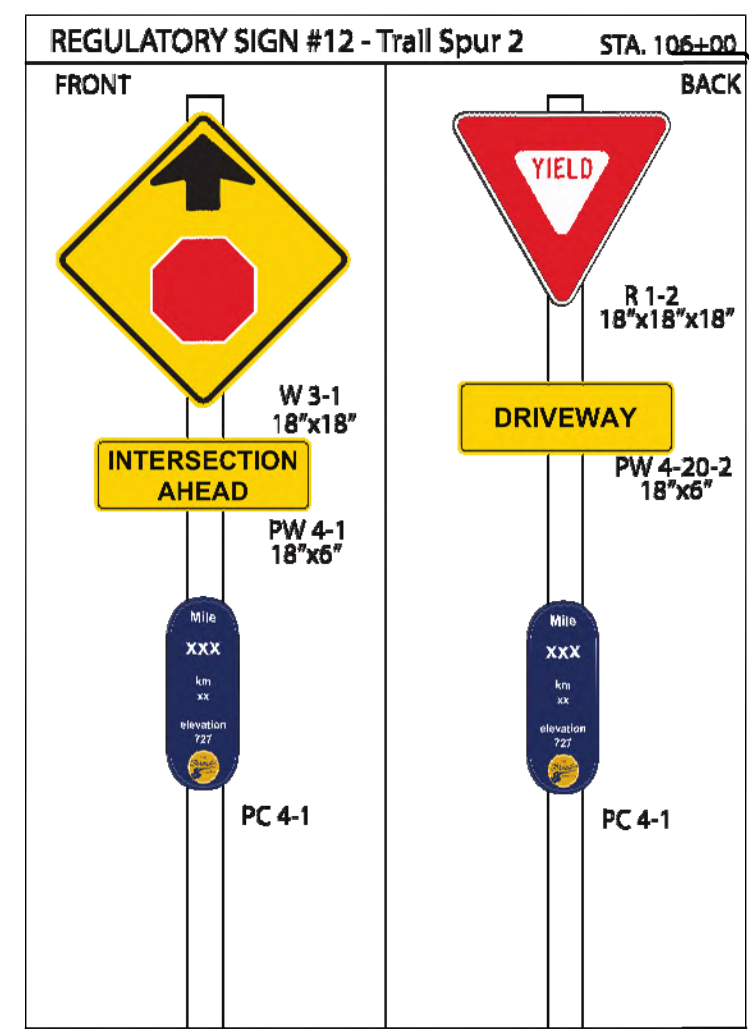
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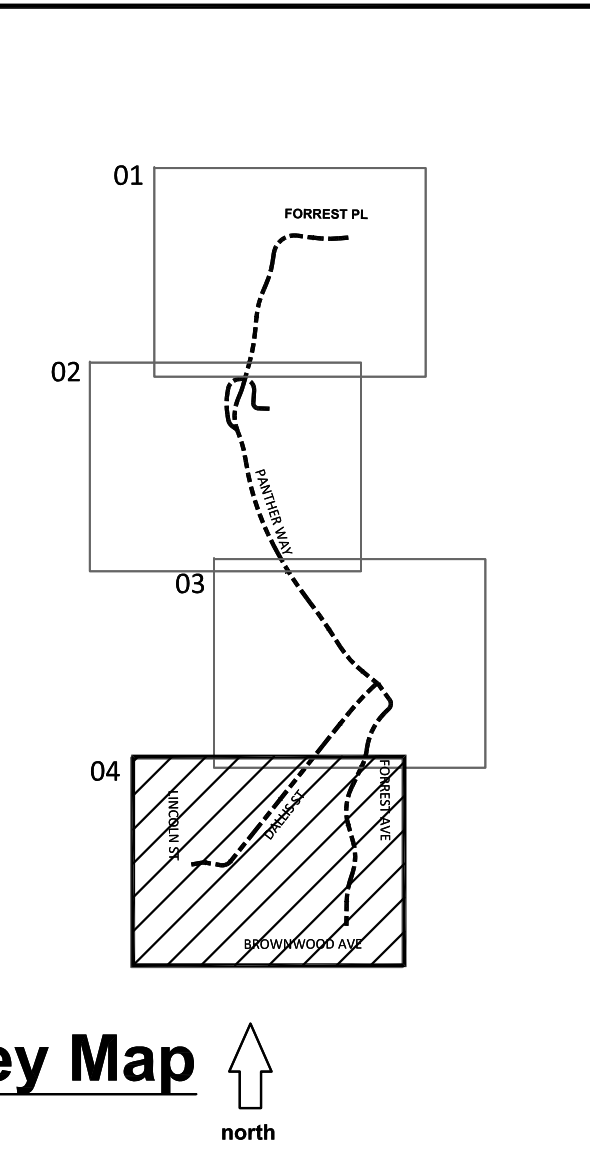
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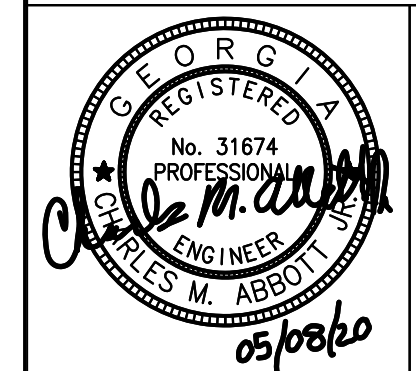
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LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA



SIGNING & MARKING PLAN

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SHEET # **SM-04**

GENERAL PLANTING NOTES

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS & DISEASES.
- ALL PLANTS MUST BE CONTAINER-GROWN, BALLED & BURLAPPED (B&B), OR OTHERWISE AS INDICATED IN THE PLANT LIST.
- ALL TREES MUST BE STRAIGHT TRUNKED, FULL-HEADED & MEET ALL REQUIREMENTS SPECIFIED.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT & THE OWNER BEFORE, DURING & AFTER INSTALLATION UNTIL THE DATE OF FINAL ACCEPTANCE.
- ALL TREES OVER 8' HT MUST BE GUYED OR STAKED, UNLESS DETERMINED OTHERWISE BY OWNER. ARBORTIE, ARBORGUY, OR APPROVED EQUAL BLACK GUYING (POLYPROPYLENE MATERIAL) AND STAKING SYSTEM INSTALLED PER MANUFACTURER SPECIFICATIONS.
- ALL PLANTS & PLANTING AREAS MUST BE COMPLETELY MULCHED AS PER SPECIFICATIONS. ALL PROPOSED TREES TO HAVE MINIMUM 6" DIAMETER MULCHED RING. ALL MULCH TO BE 3" SETTLED DEPTH OF CLEAN PINESTRAW, UNLESS INDICATED OTHERWISE.
- PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES & SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY & ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. PLANT SYMBOLS ON THE LANDSCAPE PLAN SUPERCEDE QUANTITIES SHOWN IN THE PLANT LIST. IN SIZE GRADING B&B TREES, CALIPER SHALL TAKE PRECEDENT OVER HEIGHT. IN SIZE GRADING MULTI-STEM TREES, HEIGHT SHALL TAKE PRECEDENCE OVER CALIPER. THE LANDSCAPE CONTRACTOR MUST CONTACT THE LANDSCAPE ARCHITECT IF, THEY ENCOUNTER ON SITE, EXISTING CONDITIONS SIGNIFICANTLY DIFFERENT FROM THE PLAN.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF PLANTING AREAS & LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE LANDSCAPE ARCHITECT & THE OWNER.
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO FINAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF FINAL ACCEPTANCE. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS PER DIRECTION OF THE OWNER).
- THE LANDSCAPE CONTRACTOR AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- STANDARDS SET FORTH IN 'AMERICAN STANDARDS FOR NURSERY STOCK' REPRESENT GUIDELINE SPECIFICATIONS ONLY AND CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL. ALL PLANT MATERIAL SHALL BE GRADE 'A' OR BETTER.
- ALL DISTURBED AREAS TO BE SODDED WITH BERMUDA UNLESS OTHERWISE NOTED. TEMPORARY GRASS TO BE A COMBINATION OF ANNUAL RYE AND FESCUE SEED. ALL SOD AREAS ARE TO BE FERTILIZED AND OVERSEEDED AT TIME OF INSTALLATION. ALL AREAS DESIGNATED FOR SOD MUST BE FINE GRADED. LEVEL ANY UNDULATIONS OR IRREGULARITIES, WHILE MAINTAINING POSITIVE DRAINAGE. HANDRAKE AND SMOOTH, REMOVING ALL ROCKS LARGER THAN 1" FROM THE SURFACE. USE METAL SCREEN OR WOODEN DRAG ON LARGER SURFACES. CONTACT THE LANDSCAPE ARCHITECT FOR AN INSPECTION OF THE FINE GRADED SURFACE, PRIOR TO ANY SOD INSTALLATION.
- ALL BERMS ARE TO BE CONSTRUCTED OF CLEAN, FRIABLE, WELL DRAINED, TOPSOIL.
- FOR ALL PROPOSED PLANTING AREA, LANDSCAPE CONTRACTOR TO REMOVE EXISTING VEGETATION, TILL AND ADD TOPSOIL AND FERTILIZER PRIOR TO INSTALLATION. CONTRACTOR SHALL REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS. REMOVE COMPACTED SOIL, AND ADD 24" OF TOPSOIL; OR AMEND THE TOP 24" OF EXISTING SOIL TO MEET SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL BINDING CORDS AND ROPES/STRAPPING FROM THE TRUNKS OF ALL SHADE AND ORNAMENTAL TREES IMMEDIATELY AFTER PLANTING. IDENTIFICATION TAGS AND RIBBONS SHALL BE REMOVED FROM ALL PLANT MATERIAL AT THE TIME OF PLANTING. TREE BASKETS SHALL BE CUT FROM THE TOP 1/4 OF THE ROOT BALL PRIOR TO PLANTING.
- ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE RE-SET TO FINAL GRADE AND VEGETATED PER CONSTRUCTION PLANS.
- UNLESS OTHERWISE NOTED BY THE LANDSCAPE ARCHITECT, MEDIUM SPREADING SHRUBS SHALL BE PLANTED NO CLOSER THAN 30" TO ANY ADJOINING WALL OR PAVED AREA. LARGE SPREADING SHRUBS SHALL BE PLANTED NO CLOSER THAN 36" TO ANY ADJOINING WALL OR PAVED AREA.
- THE PLANTING SOIL FOR SHRUBS WILL CONSIST OF 33% GROUND PINE BARK HUMUS, WELL-MIXED WITH 67% OF IMPROVED SOIL; WHICH IS, EXCAVATED SOIL WITH ROCKS, CLUMPS, AND DEBRIS GREATER THAN 2" IN DIAMETER REMOVED. NO ADDITIONAL SOIL AMMENDMENTS ARE REQUIRED FOR TREES. GROUNDCOVER AND PERENNIAL BEDS SHALL BE PREPARED AND AMENDED ACCORDING TO SPECIFICATIONS.
- MINIMUM (9) SQ. FT. PLANTING AREA PROVIDED FOR EACH TREE.
- SEEDING RATE FOR BERMUDA SEED ON DISTURBED AREAS IS 1.5 LBS PER 1000 SQUARE FEET.
- ALL PARKING ISLANDS AND LANDSCAPE BEDS ARE REQUIRED TO HAVE A GRANULAR PRE-EMERGENT HERBICIDE APPLIED TO AID WITH WEED CONTROL.

BUILDERS NOTES:

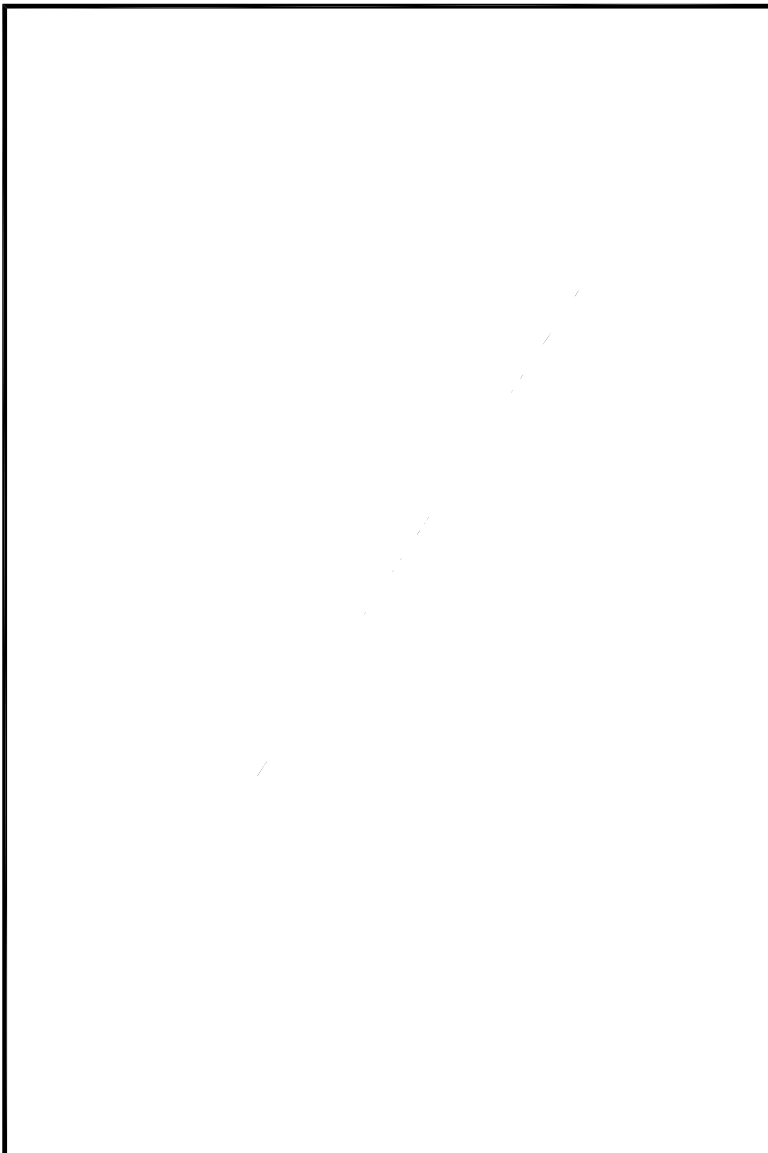
BY THIS AGREEMENT WITH THE OWNER, THE LANDSCAPE ARCHITECT HAS UNDERTAKEN A LIMITED SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDERS PLANS" IN RECOGNITION OF THE SOPHISTICATION OF THE LANDSCAPE CONTRACTOR. CONSTRUCTION WILL REQUIRE THAT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

PLANT SCHEDULE

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

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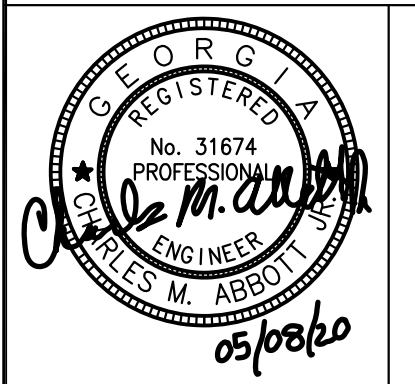
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LANDSCAPE NOTES

SCALE	
DATE	MAY 8, 2020

SHEET # **LN-01**

PLANTS LEGEND

TREES:

- Acer rubrum 'October Glory' /
October Glory Red Maple (ARO)
- Quercus nuttallii /
Nuttall Oak (QN)
- Ginkgo biloba /
Ginkgo (GB)
- Cornus florida /
Flowering Dogwood (CF)
- Cercis canadensis /
Eastern Redbud (CC)

SHRUBS:

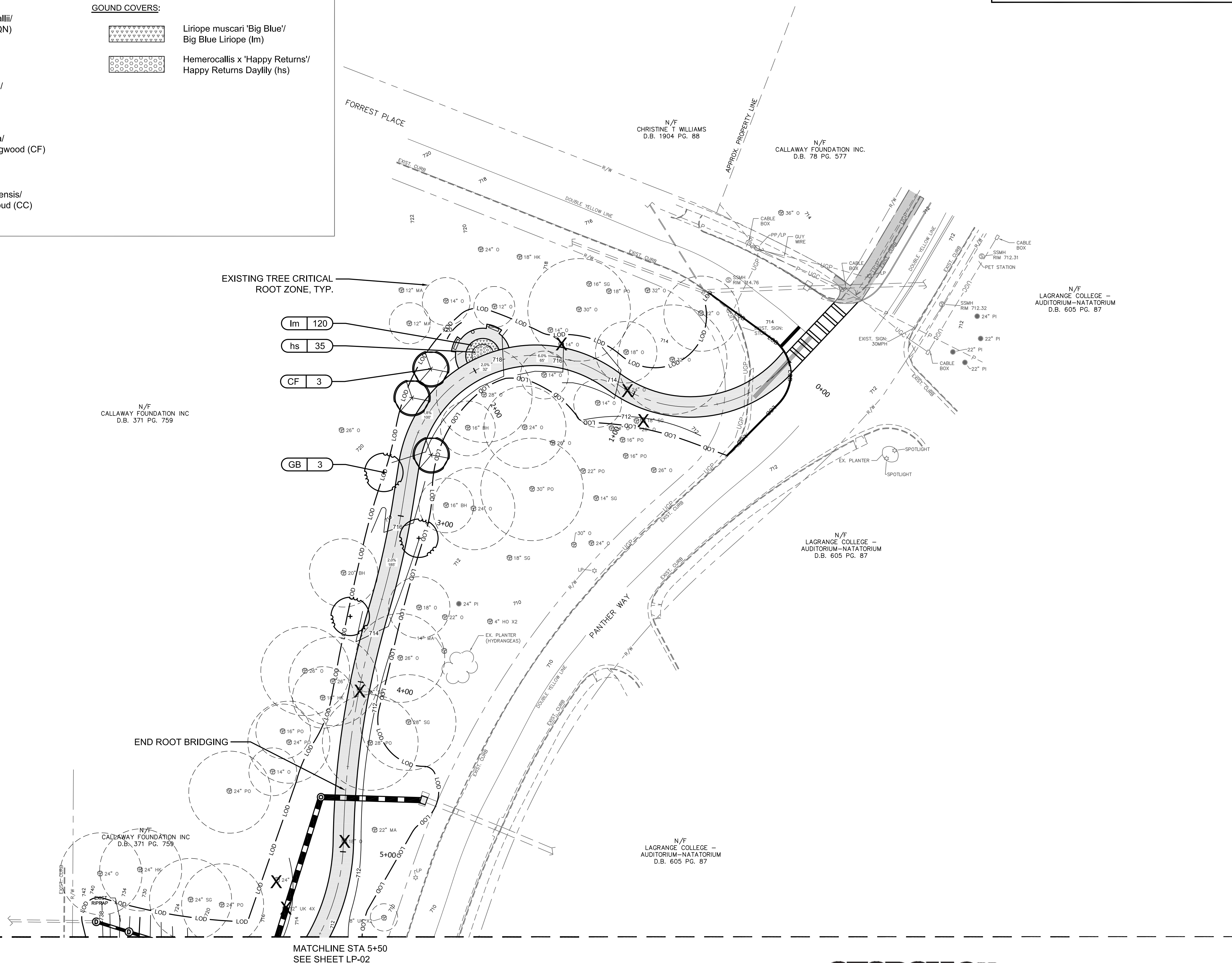
- Abelia X 'Rose Creek' /
Abelia 'Rose Creek' (Ar)
- Rhamnus indica /
Indian Hawthorn (Ri)
- Muhlenbergia capillaris /
Pink Muhly Grass (Mc)

GROUND COVERS:

- Liriope muscari 'Big Blue' /
Big Blue Liriope (lm)
- Hemerocallis x 'Happy Returns' /
Happy Returns Daylily (hs)

SHEET NOTES:

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



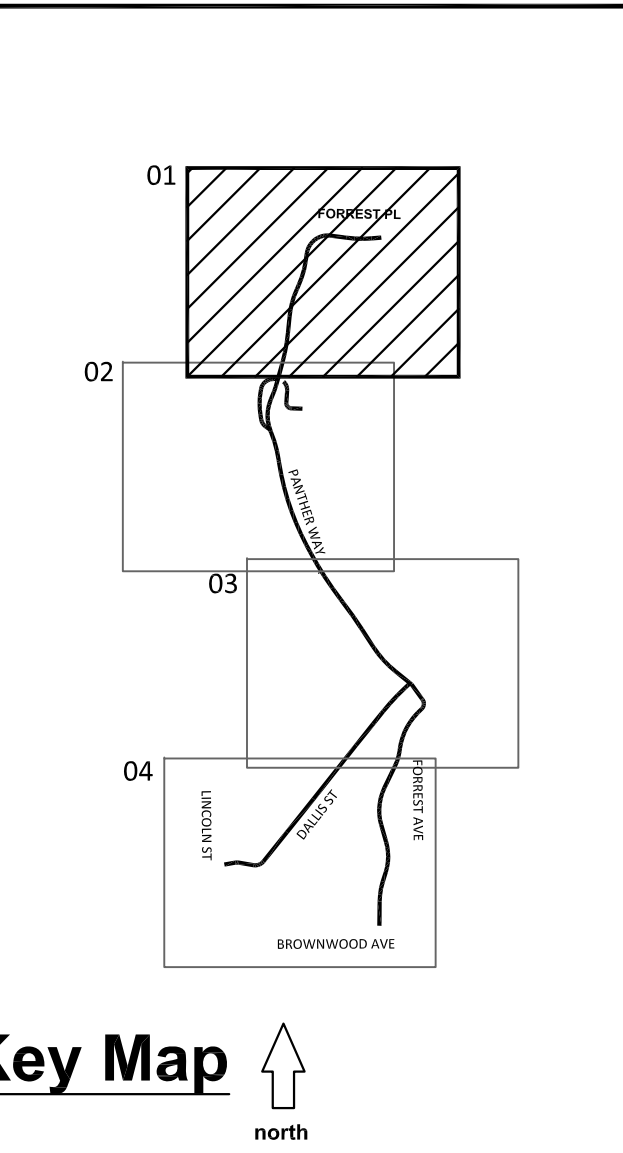
- lm 120
- hs 35
- CF 3
- GB 3

END ROOT BRIDGING

MATCHLINE STA 5+50
SEE SHEET LP-02

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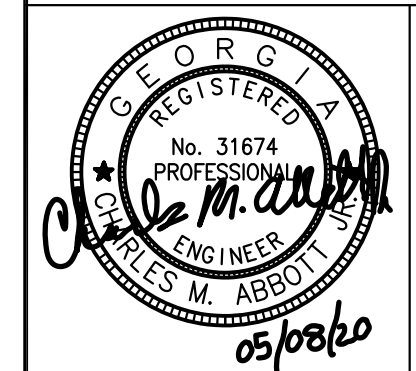
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105 CORPORATE DRIVE CAROLTON, GA 30117
E-MAIL: mabco@georgiawest.com



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

PROJECT #	2020-196
PROJECT MANAGER	NS

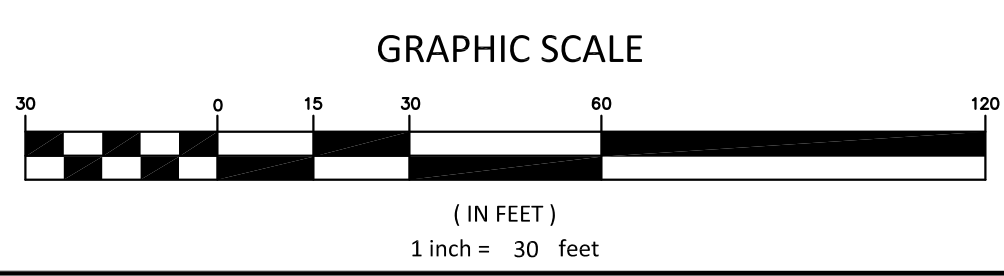
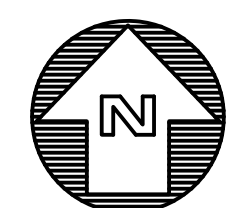
**LAGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LAGRANGE, GA**

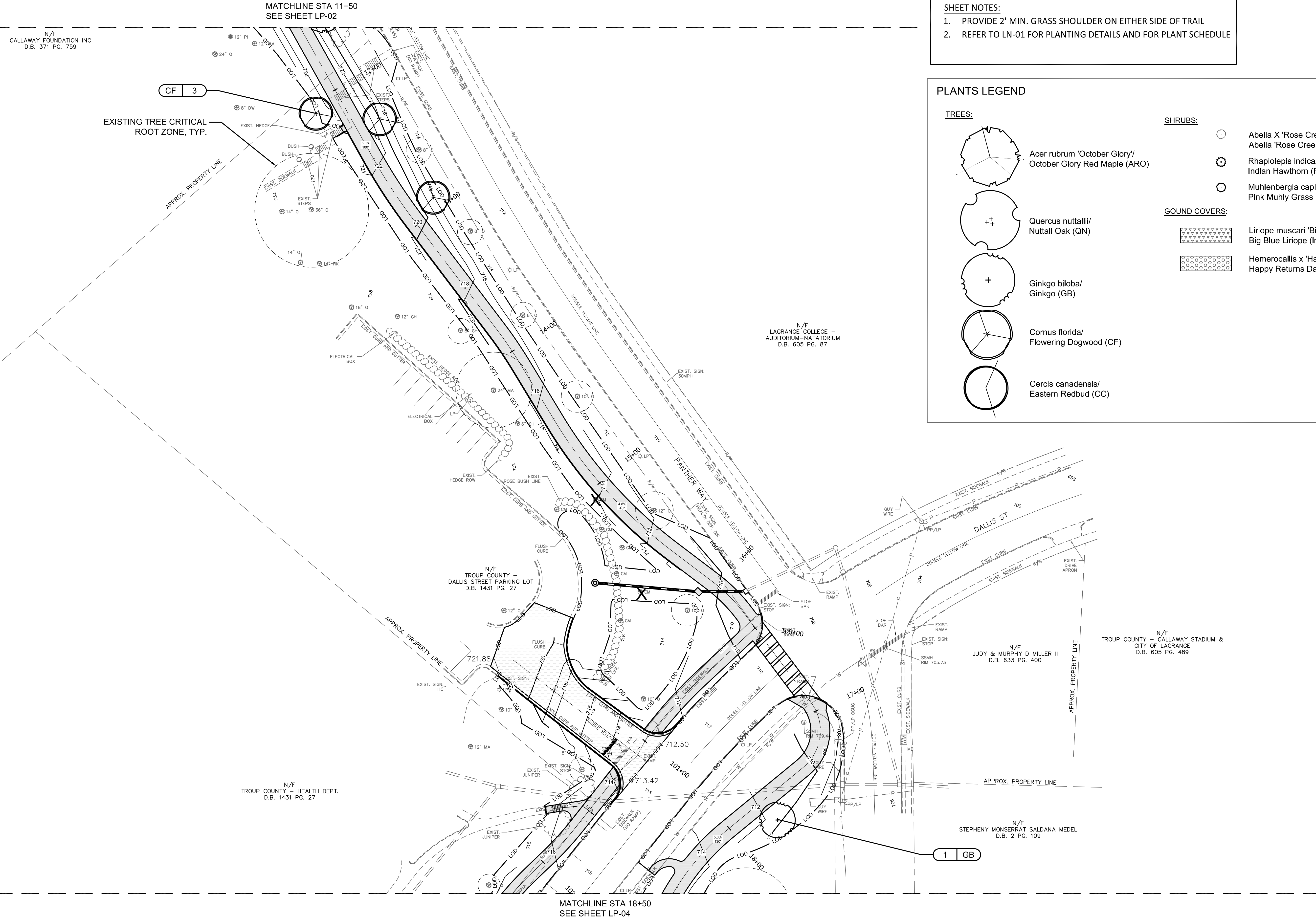


LANDSCAPE PLAN

SCALE	1" = 30' - 0"
DATE	MAY 8, 2020

SHEET # **LP-01**





SHEET NOTES:

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

PLANTS LEGEND

TREES:

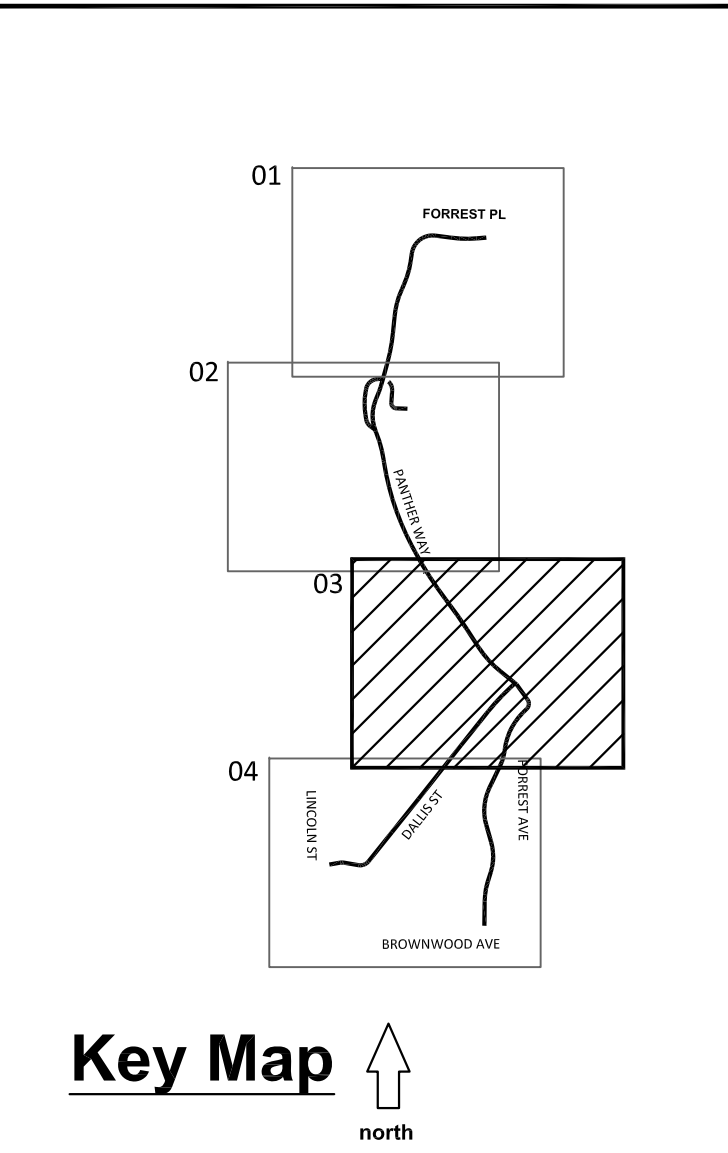
- Acer rubrum 'October Glory'/ October Glory Red Maple (ARO)
- Quercus nuttallii/ Nuttall Oak (QN)
- Ginkgo biloba/ Ginkgo (GB)
- Cornus florida/ Flowering Dogwood (CF)
- Cercis canadensis/ Eastern Redbud (CC)

SHRUBS:

- Abelia X 'Rose Creek'/ Abelia 'Rose Creek' (Ar)
- Rhapiolepis indica/ Indian Hawthorn (Ri)
- Muhlenbergia capillaris/ Pink Muhly Grass (Mc)

GROUND COVERS:

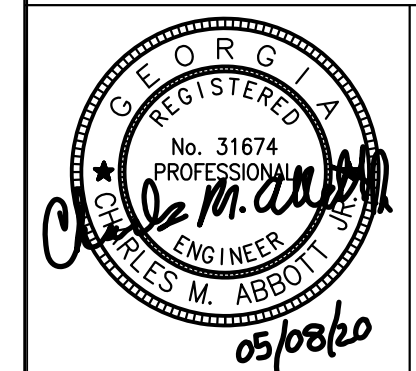
- Liriope muscari 'Big Blue'/ Big Blue Liriope (Im)
- Hemerocallis x 'Happy Returns'/ Happy Returns Daylily (hs)



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PROJECT MANAGER	NS

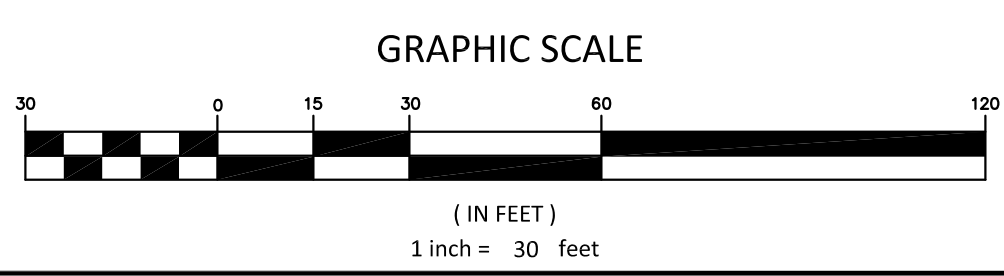
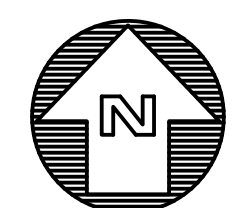
**LAGRANGE THREAD PHASE 8 -
 PANTHER PARK TRAIL
 LAGRANGE, GA**



LANDSCAPE PLAN


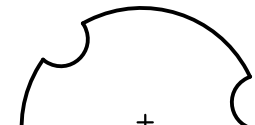



SCALE	1" = 30' - 0"
DATE	MAY 8, 2020

SHEET # **LP-03**






PLANTS LEGEND

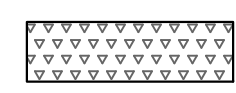
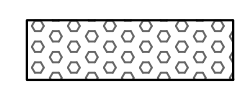
TREES:

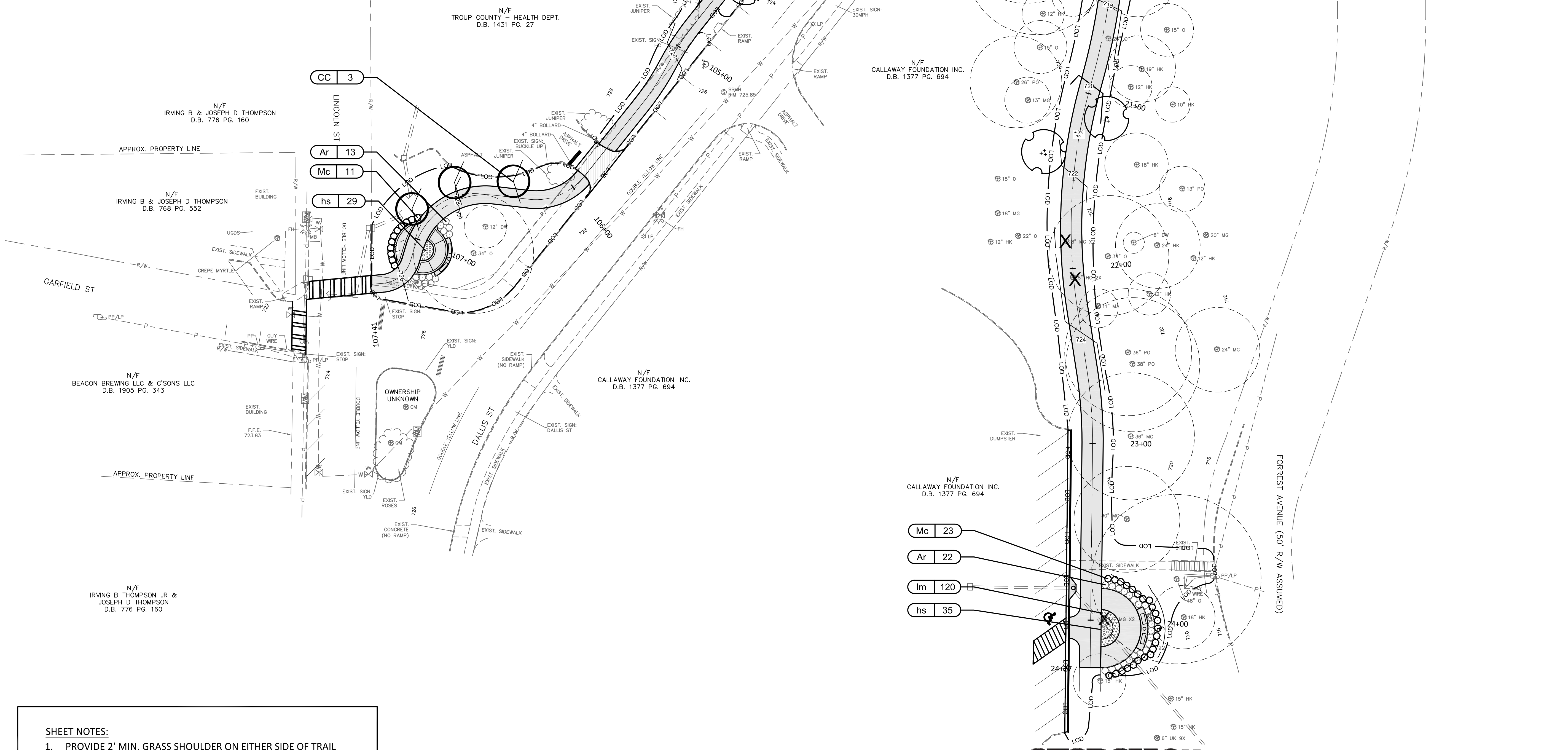
-  Acer rubrum 'October Glory'/
October Glory Red Maple (ARO)
-  Quercus nuttallii/
Nuttall Oak (QN)
-  Ginkgo biloba/
Ginkgo (GB)
-  Cornus florida/
Flowering Dogwood (CF)
-  Cercis canadensis/
Eastern Redbud (CC)

SHRUBS:

-  Abelia X 'Rose Creek'/
Abelia 'Rose Creek' (Ar)
-  Rhapiolepis indica/
Indian Hawthorn (Ri)
-  Muhlenbergia capillaris/
Pink Muhly Grass (Mc)

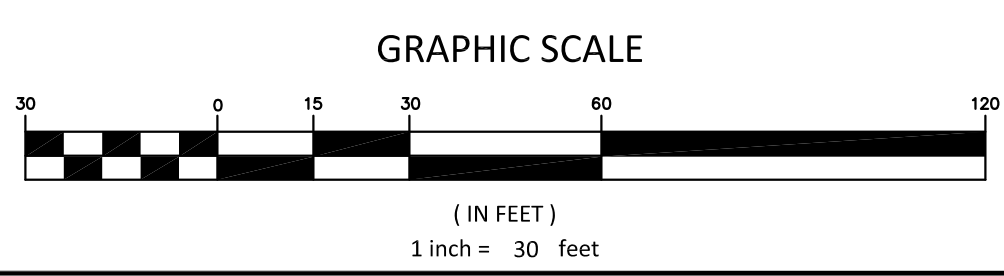
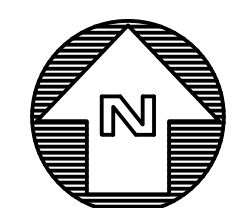
GOUND COVERS:

-  Liriope muscari 'Big Blue'/
Big Blue Liriope (lm)
-  Hemerocallis x 'Happy Returns'/
Happy Returns Daylily (hs)



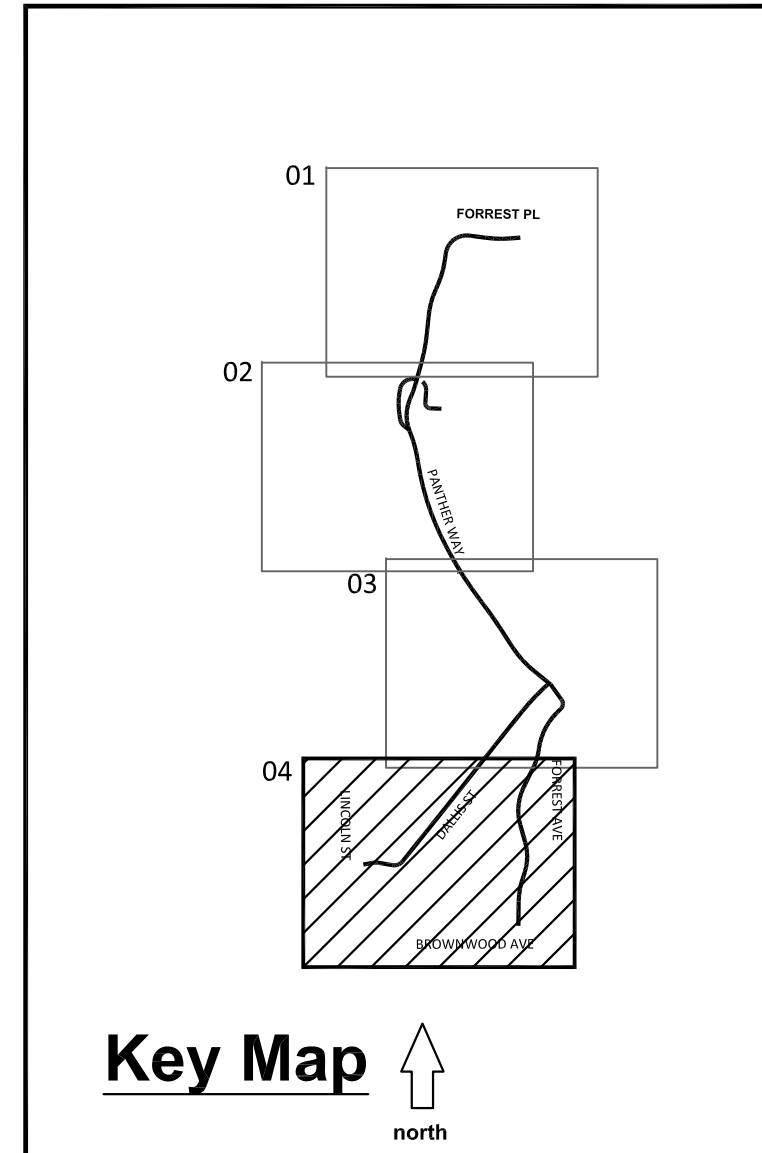
SHEET NOTES:

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2. REFER TO LN-01 FOR PLANTING DETAILS AND FOR PLANT SCHEDULE



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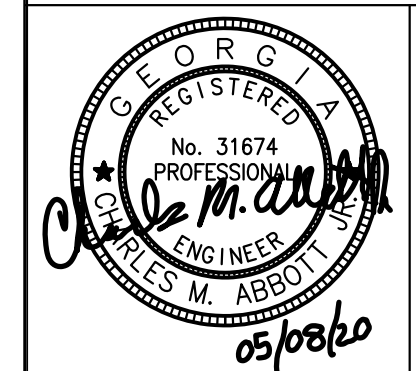
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PROJECT #	2020-196
PROJECT MANAGER	NS

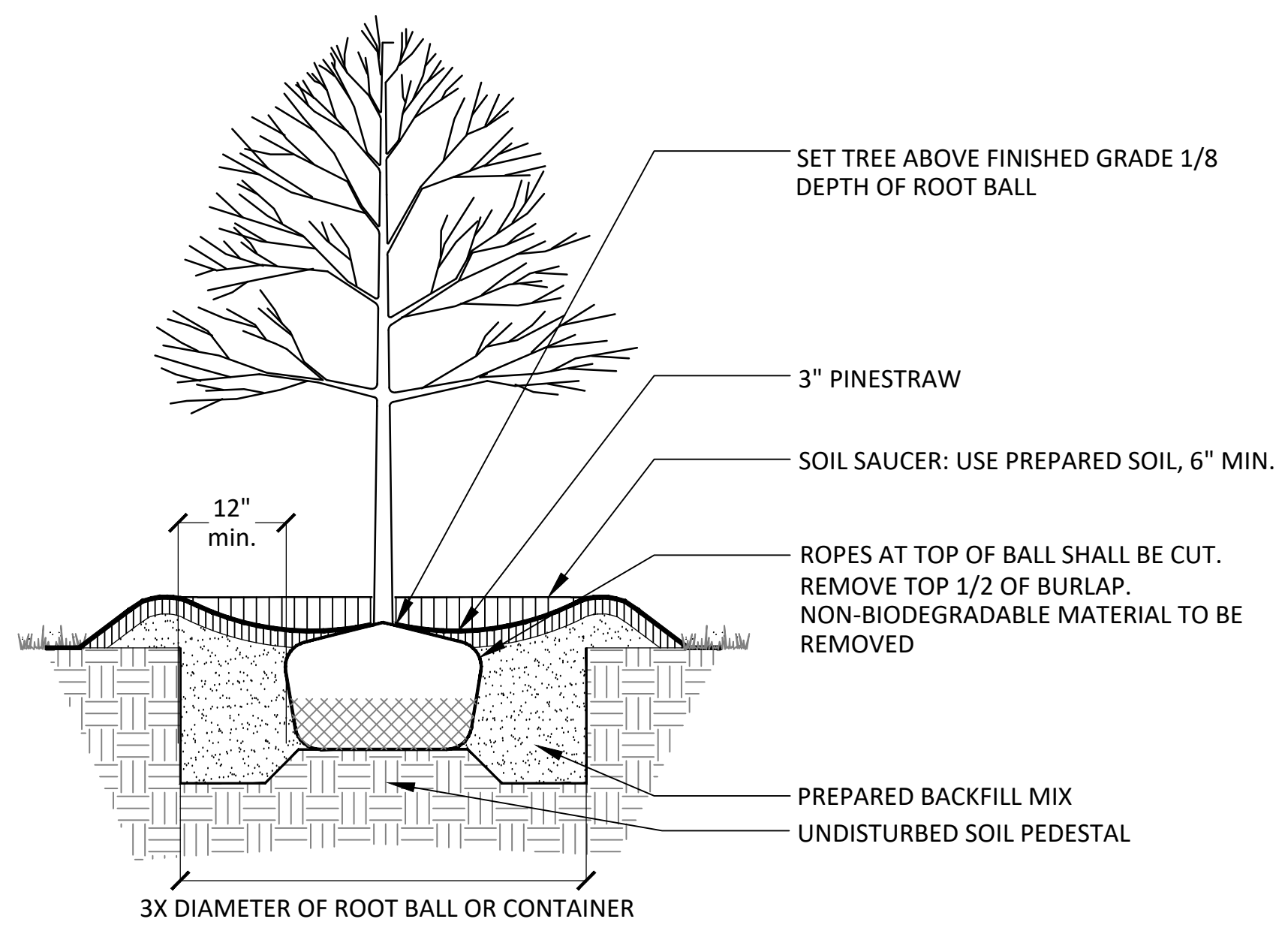
**LAGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LAGRANGE, GA**



LANDSCAPE PLAN

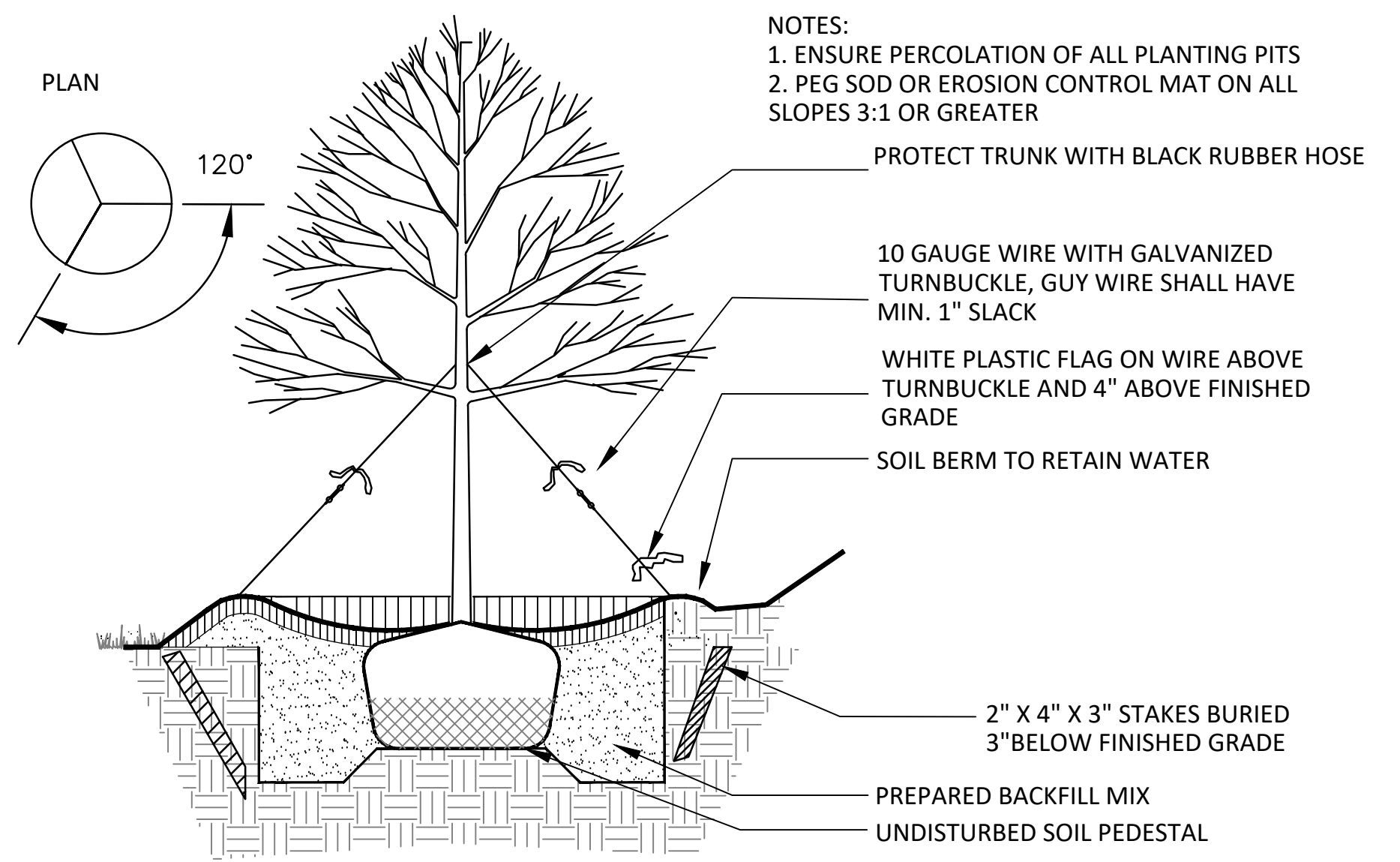
SCALE	1" = 30' - 0"
DATE	MAY 8, 2020

SHEET # **LP-04**



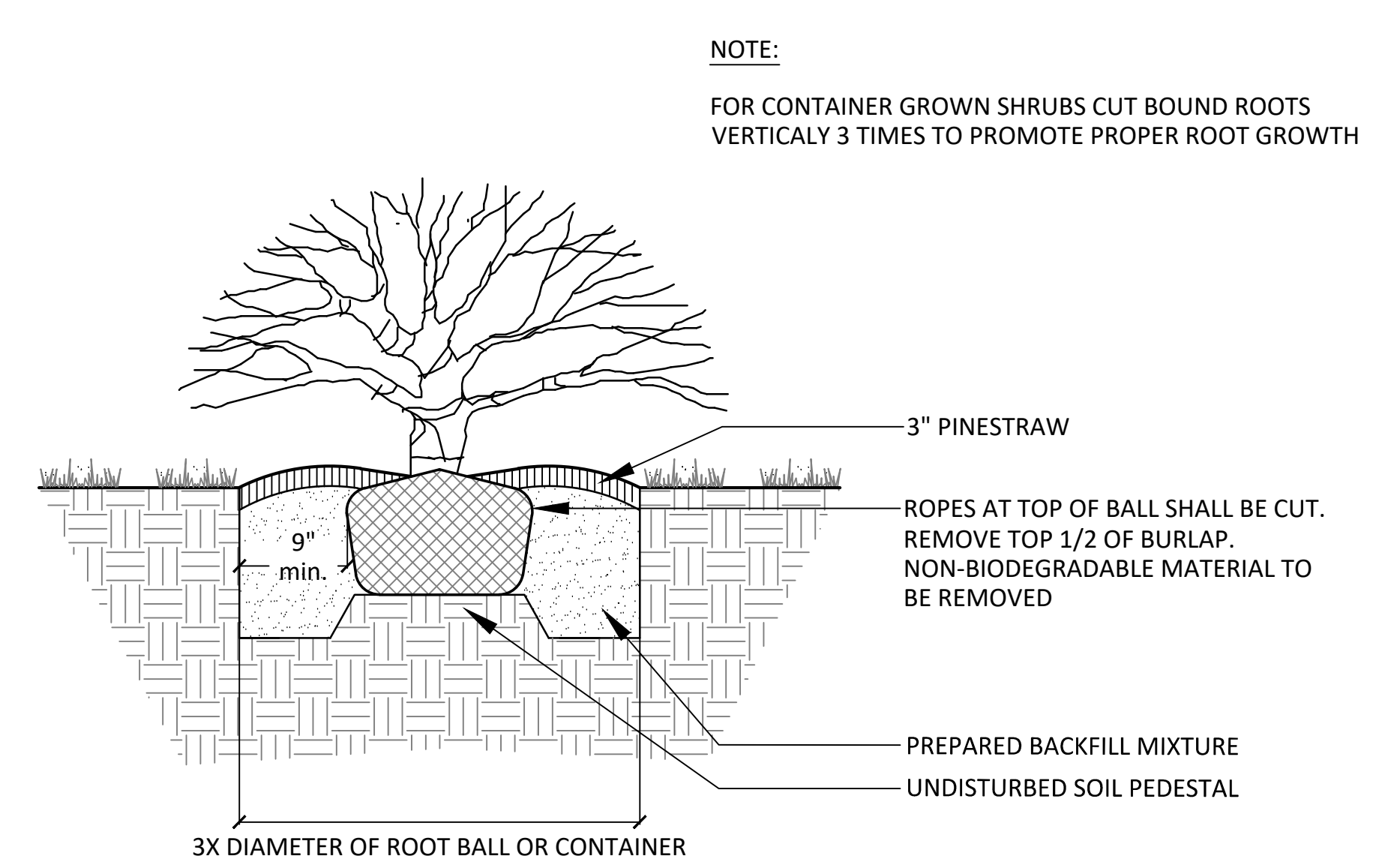
01 TREE PLANTING DETAIL

SCALE: 3/4" = 1'-0"



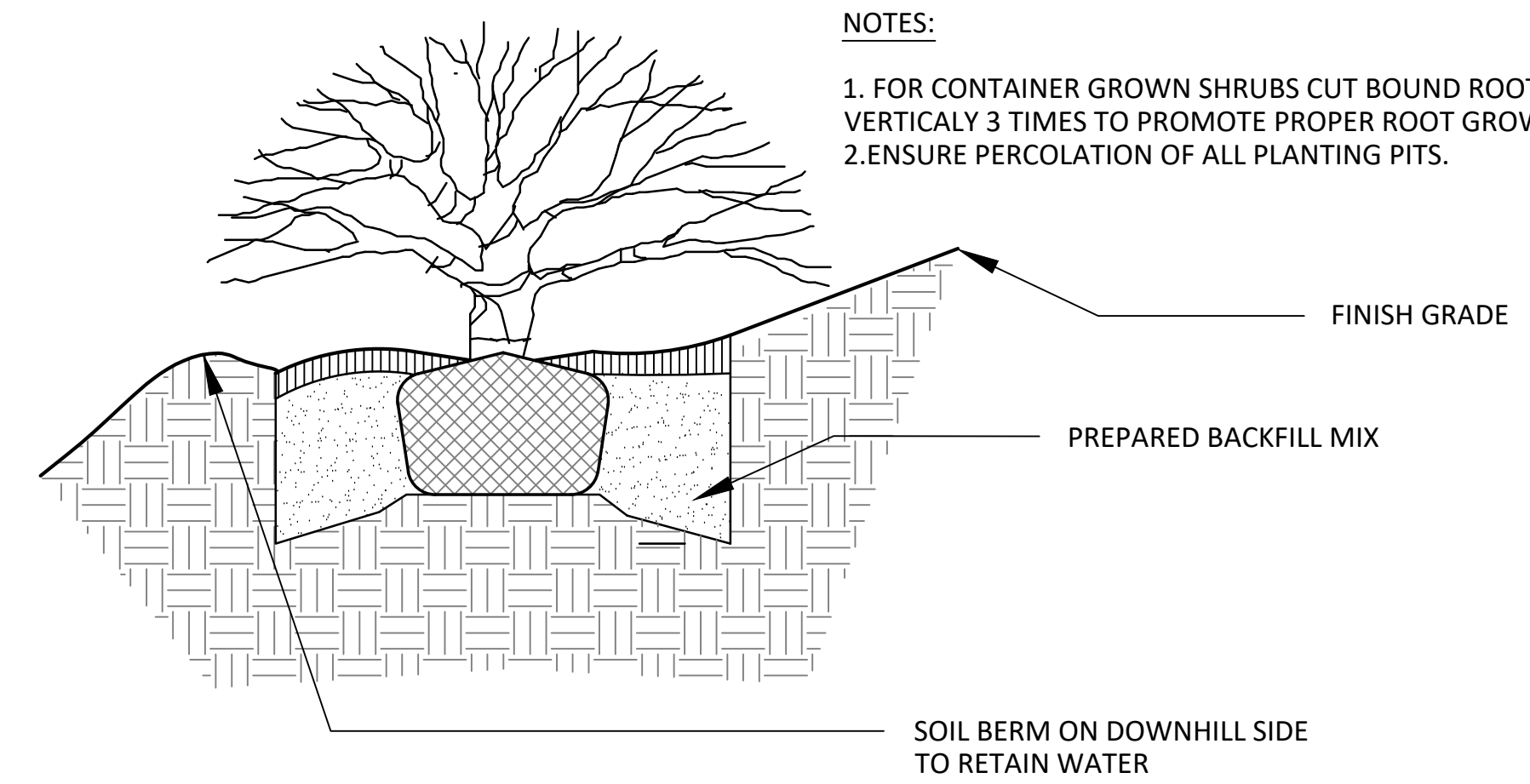
02 TREE PLANTING DETAIL - ON SLOPE

SCALE: 3/4" = 1'-0"



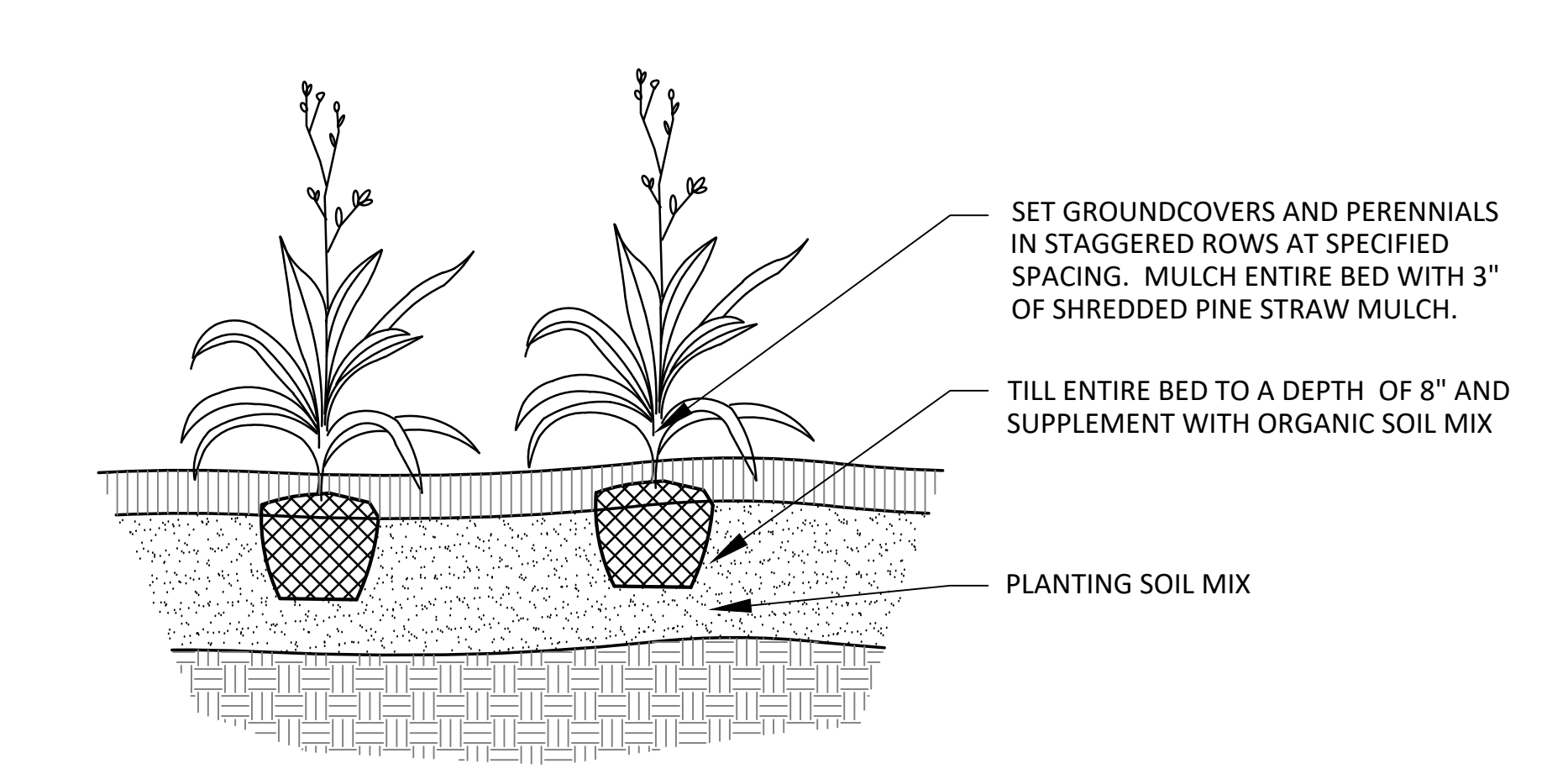
03 SHRUB PLANTING DETAIL

SCALE: 1" = 1'-0"



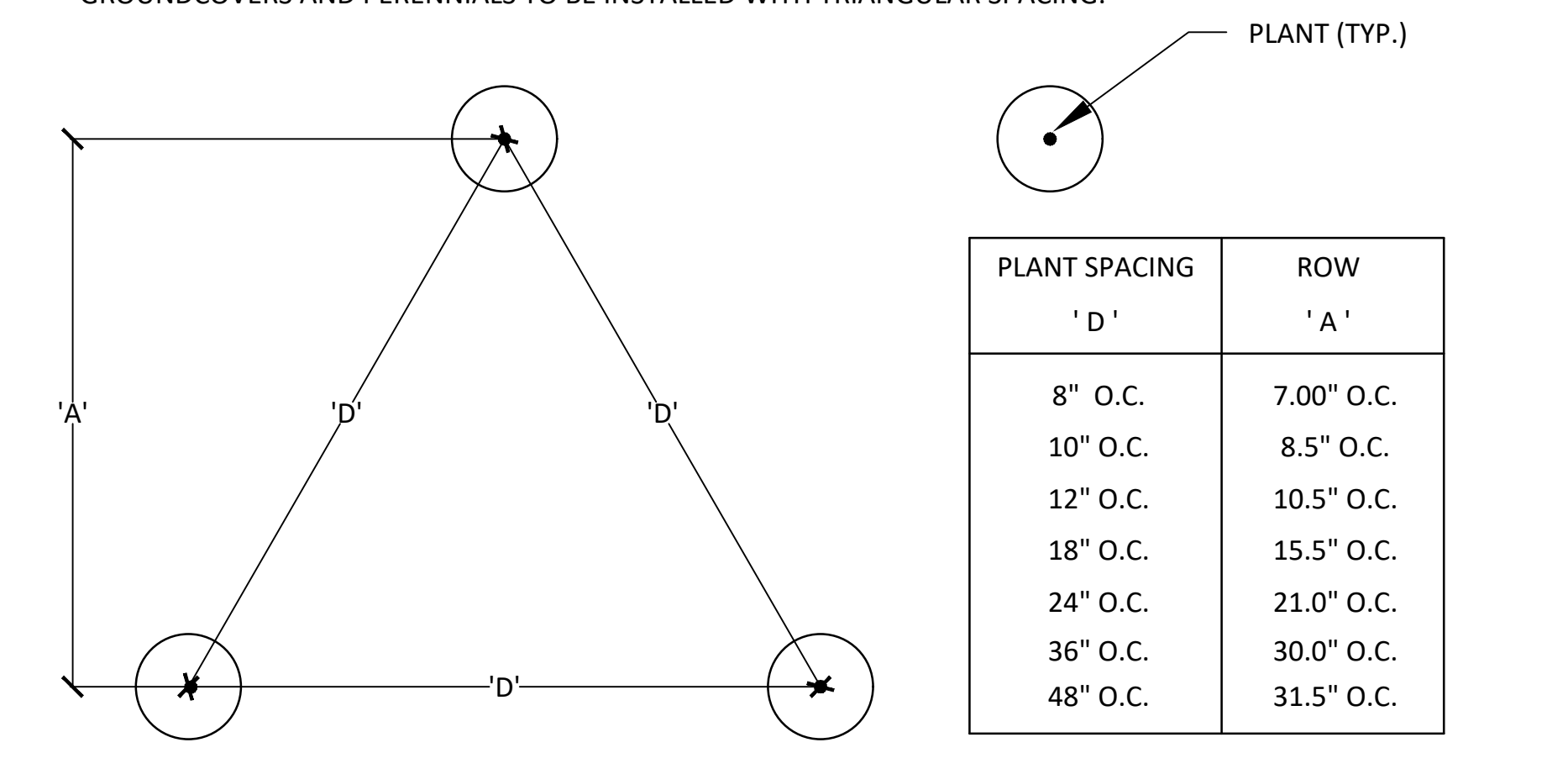
04 SHRUB PLANTING DETAIL- ON SLOPE

SCALE: 1" = 1'-0"



05 GROUNDCOVER PLANTING DETAIL

SCALE: 1" = 1'-0"



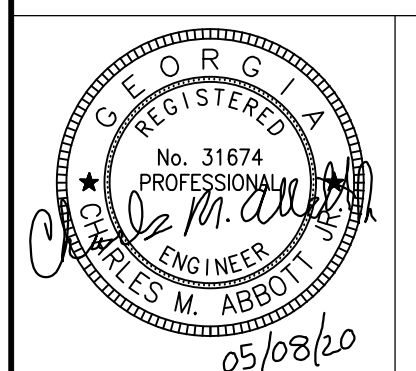
05 PLANT SPACING DIAGRAM

SCALE: NTS

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PROJECT MANAGER NS

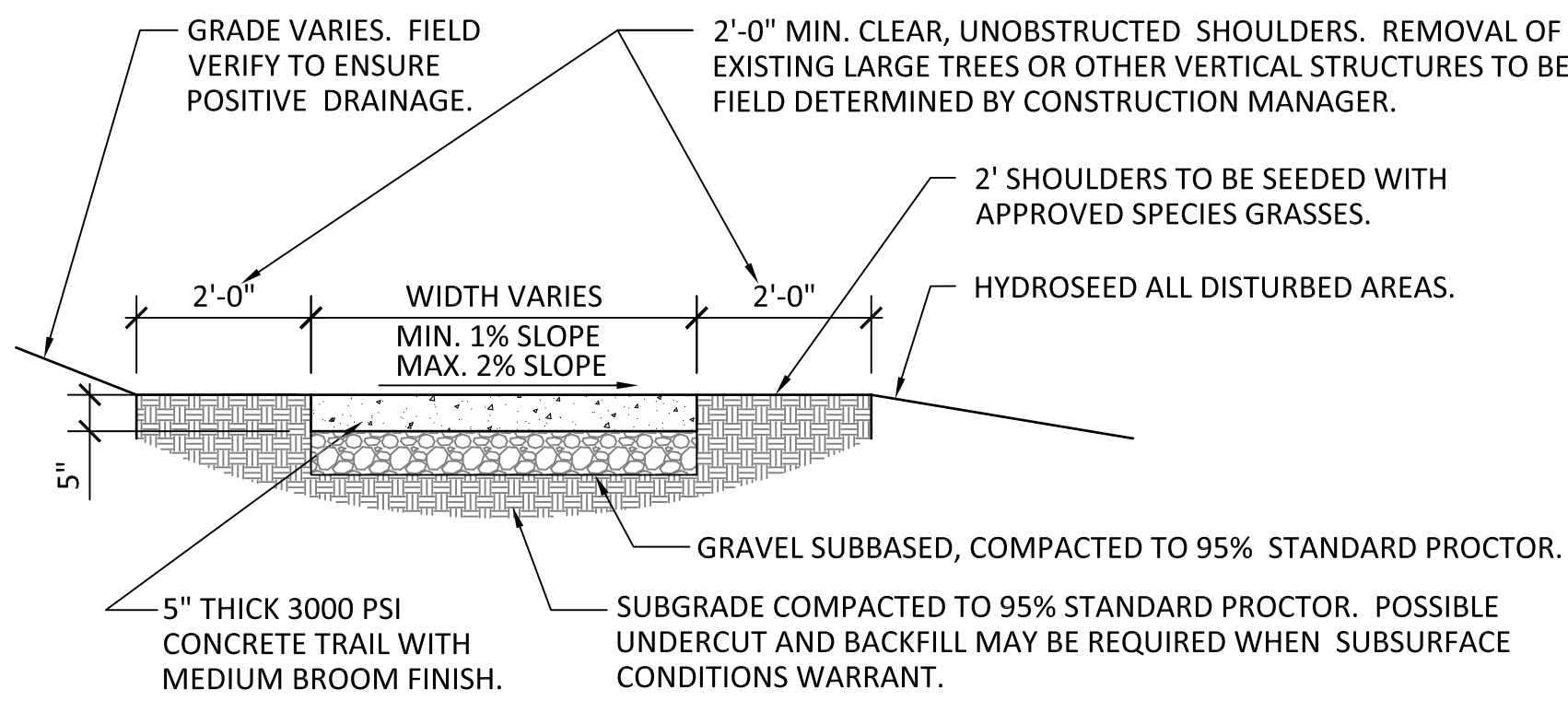
**LAGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LAGRANGE, GA**



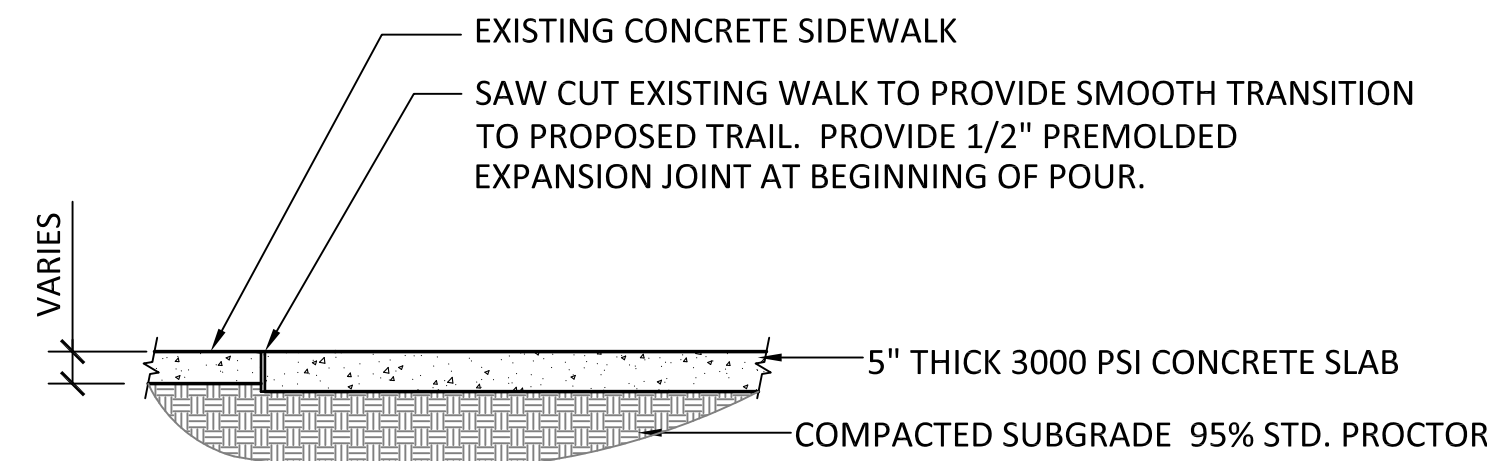
PLANTING DETAILS

SCALE	AS SHOWN
DATE	MAY 8, 2020
SHEET #	LD-01

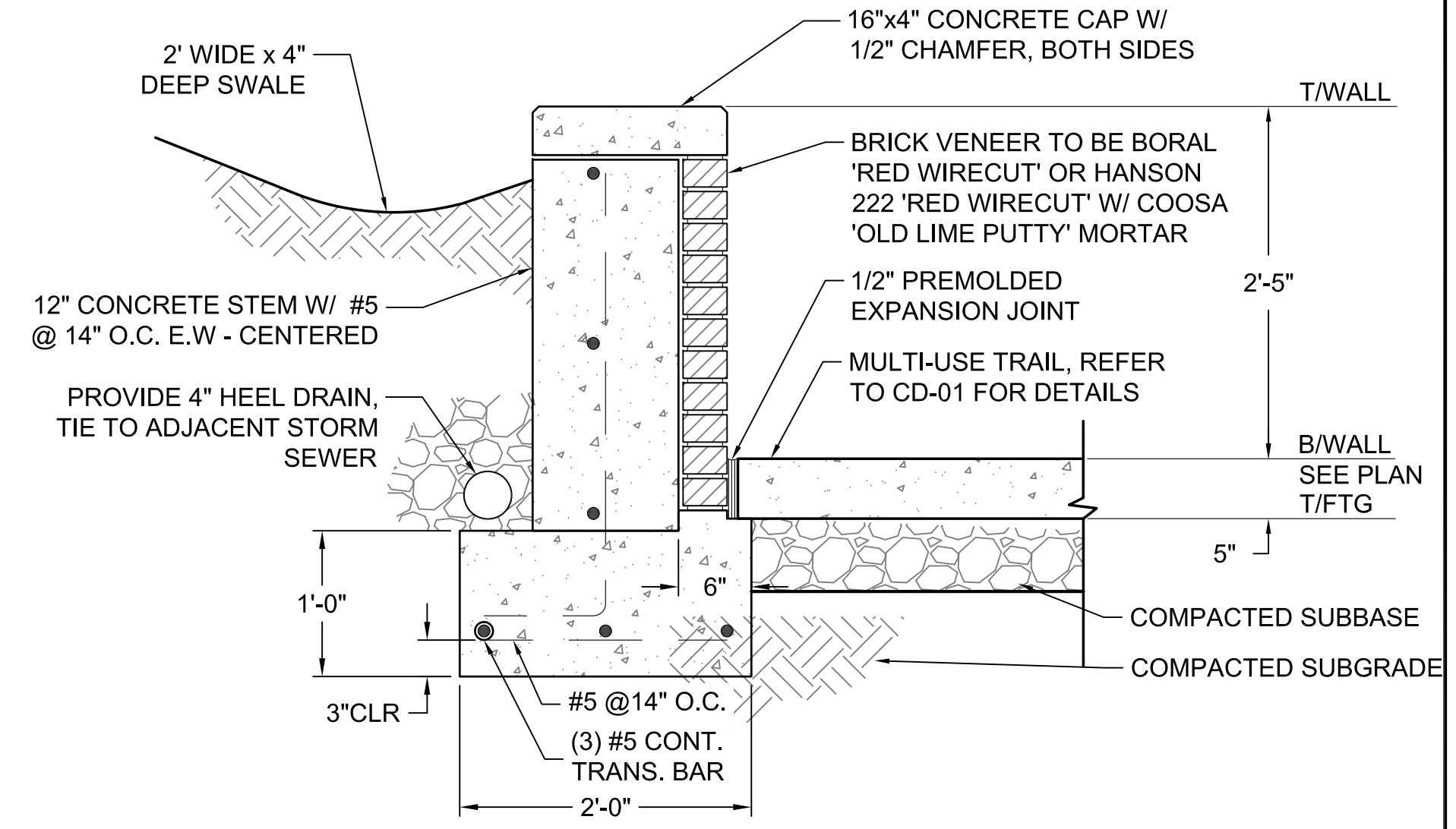
- NOTES:
 1) 4"x (TRAIL WIDTH) ALTERNATING YELLOW CENTERLINE STRIPING TO BE INSTALLED ALONG ENTIRE LENGTH OF TRAIL CENTERLINE.
 2) CONTRACTOR TO SAW CUT CONTROL JOINT AT LEAST 1/4 DEPTH OF SLAB ACROSS ENTIRE WIDTH OF TRAIL. CONTROL JOINTS TO BE LOCATED THE SAME DISTANCE APART AS THE WIDTH OF TRAIL (I.E.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



1 MULTI-USE TRAIL-CROSS SECTION
 CD-01 SCALE: 1/2" = 1'-0"

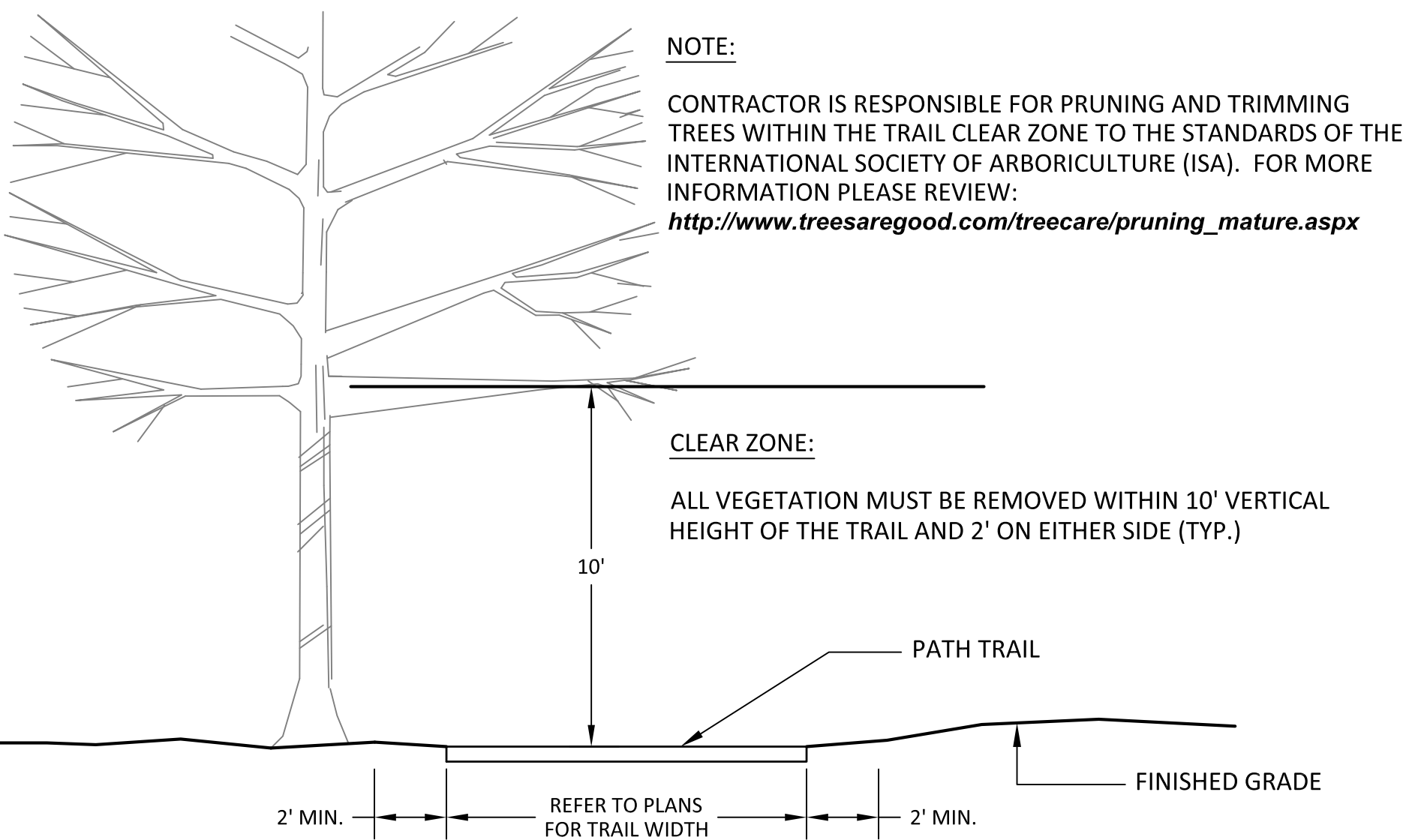


2 EXISTING WALK/TRAIL TRANSITION
 CD-01 SCALE: 1/2" = 1'-0"

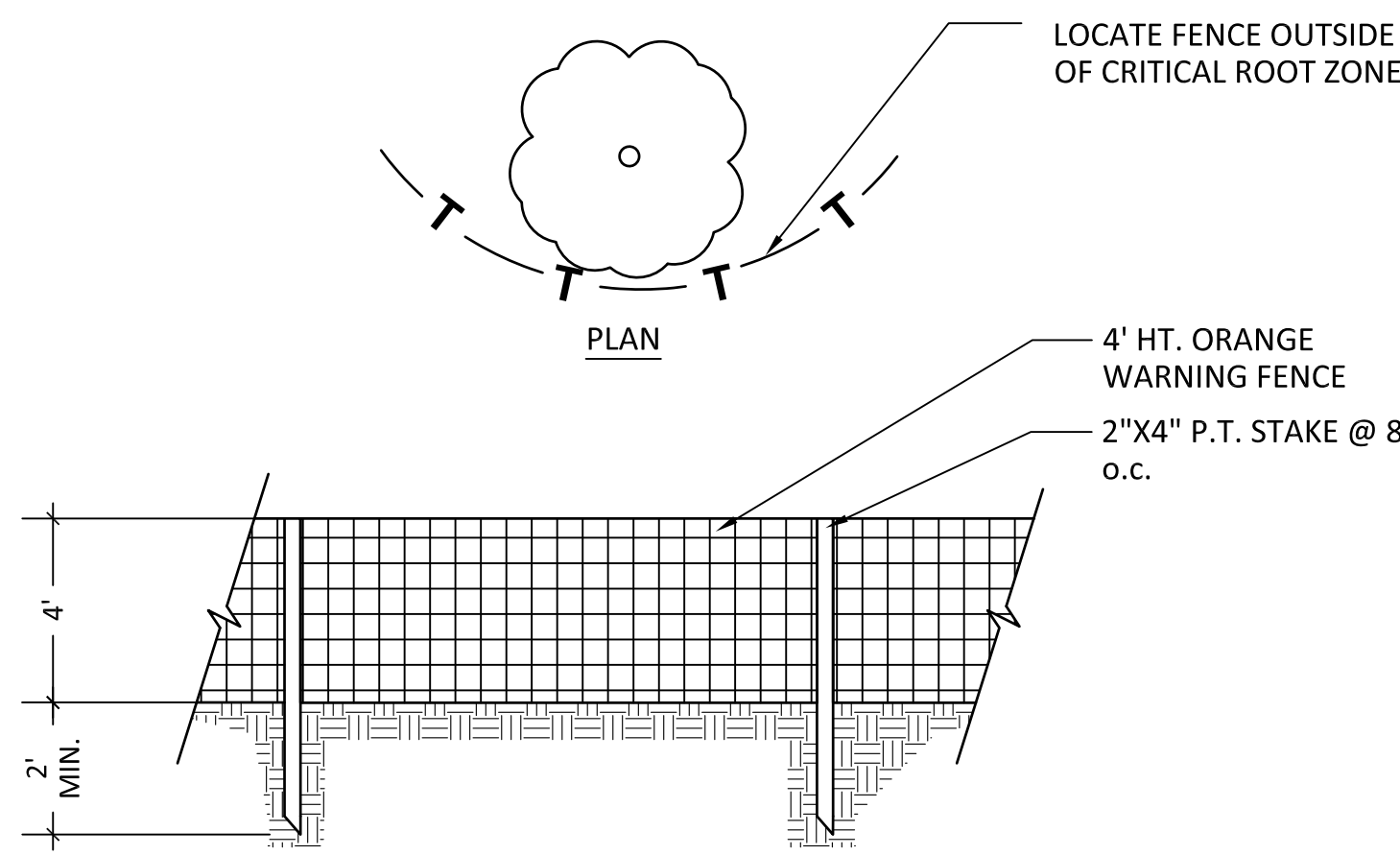


- NOTES:
 1. MIN. CONCRETE COMPRESSIVE STRENGTH (f_c') TO BE 3,000psi AND STEEL REINFORCED YIELD STRENGTH (f_y) TO BE 60ksi.
 2. ASSUMED SOIL PROPERTIES: $\gamma = 120$ pcf RETAINED & 100pcf FOUNDATION, $\mu = 0.30$, $P_a = 40$ psf/ft (CONSTRUCTION) & 60psf/ft (FINAL), $P_p = 300$ psf/ft, $\phi = 30^\circ$
 3. CONSTRUCTION SURCHARGE = 100psf MAX.
 4. DESIGN SOIL BEARING PRESSURE = 2500psf
 5. RETAINING WALL IS DESIGNED AS A CANTILEVERED WALL DURING CONSTRUCTION AND IN FINAL CONDITION
 6. SOIL PROPERTIES LISTED ARE ASSUMED, AND SHOULD BE VERIFIED IN FIELD BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION
 7. CONTRACTOR TO SUBMIT BRICK VENEER SAMPLES TO PROJECT MANAGER AND CITY FOR FINAL COLOR SELECTION

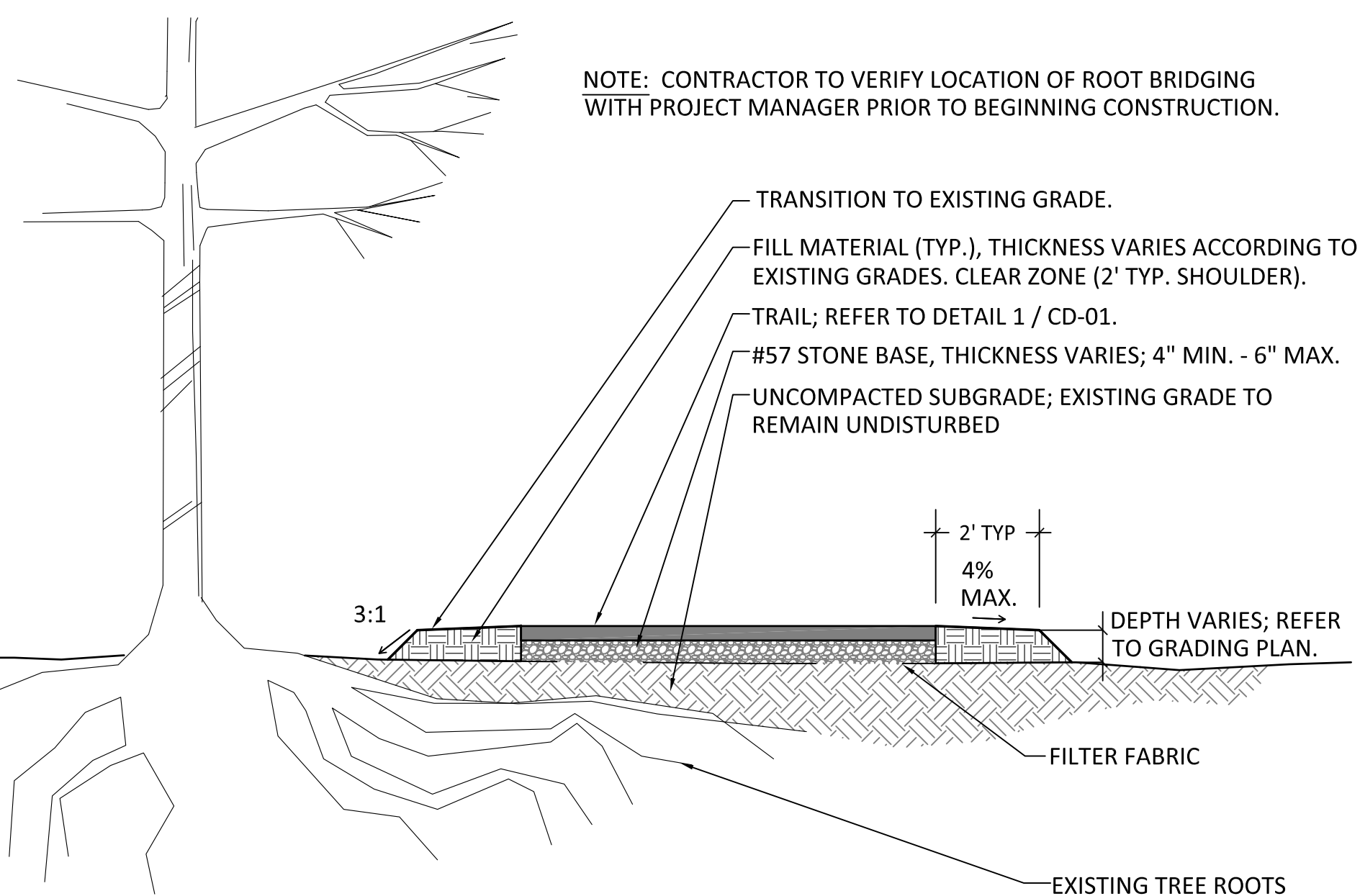
3 RETAINING WALL- DETAIL
 CD-01 SCALE: 1" = 1'-0"



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



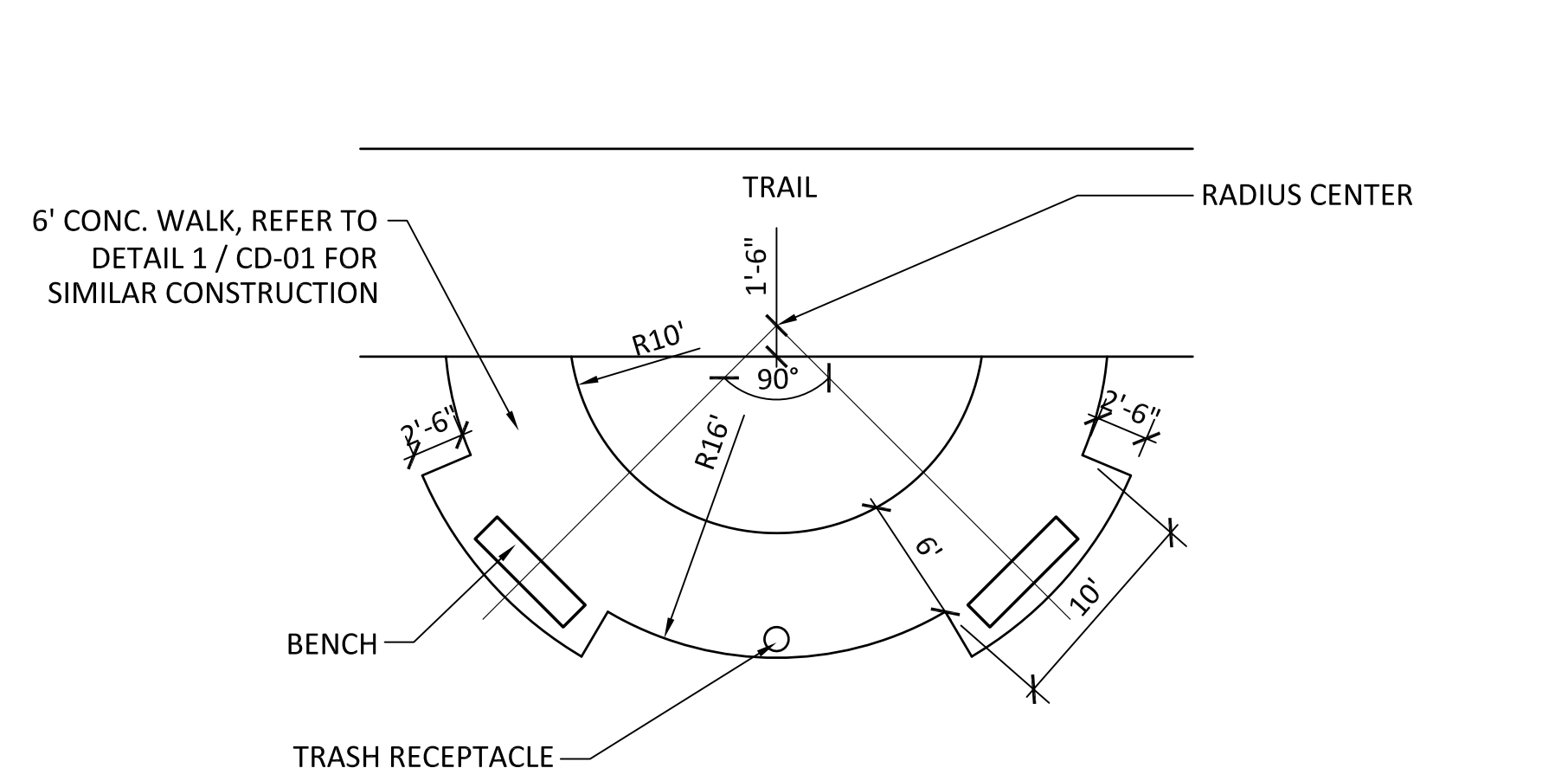
5 TREE PROTECTION FENCE
 CD-01 SCALE: 1/4" = 1'-0"



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

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

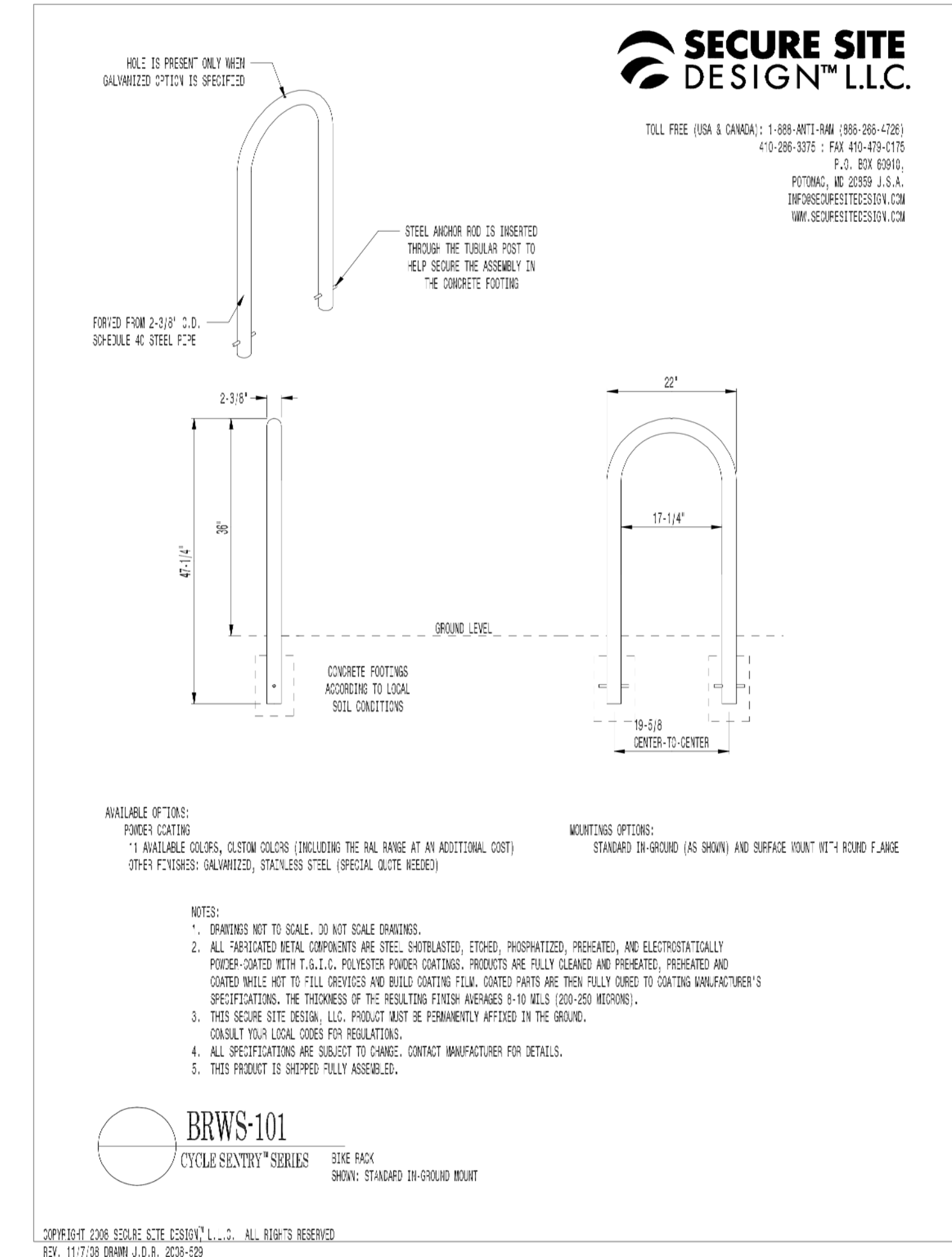
NOTE:
 PROVIDE FENCE AS SHOWN ON PLAN. PROVIDE AT LEAST ONE FOOT OF DISTANCE FROM TREE TO FENCE FOR EACH INCH OF TREE DBH, WHERE DBH REFERS TO THE TREE DIAMETER MEASURED AT 4.5' ABOVE THE GROUND.



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

NOTE:
 ALL POCKET PARKS TO BE FIELD LOCATED BY PROJECT MANAGER. REFER TO PLANS FOR GENERAL LOCATION.

DETAIL NOTE: POWDER COATED BLACK



8 BIKE RACK DETAIL - BY SECURE SITE DESIGN
 CD-01 N.T.S

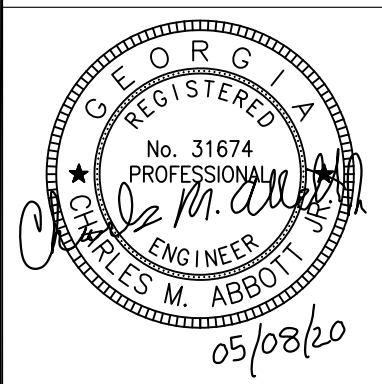
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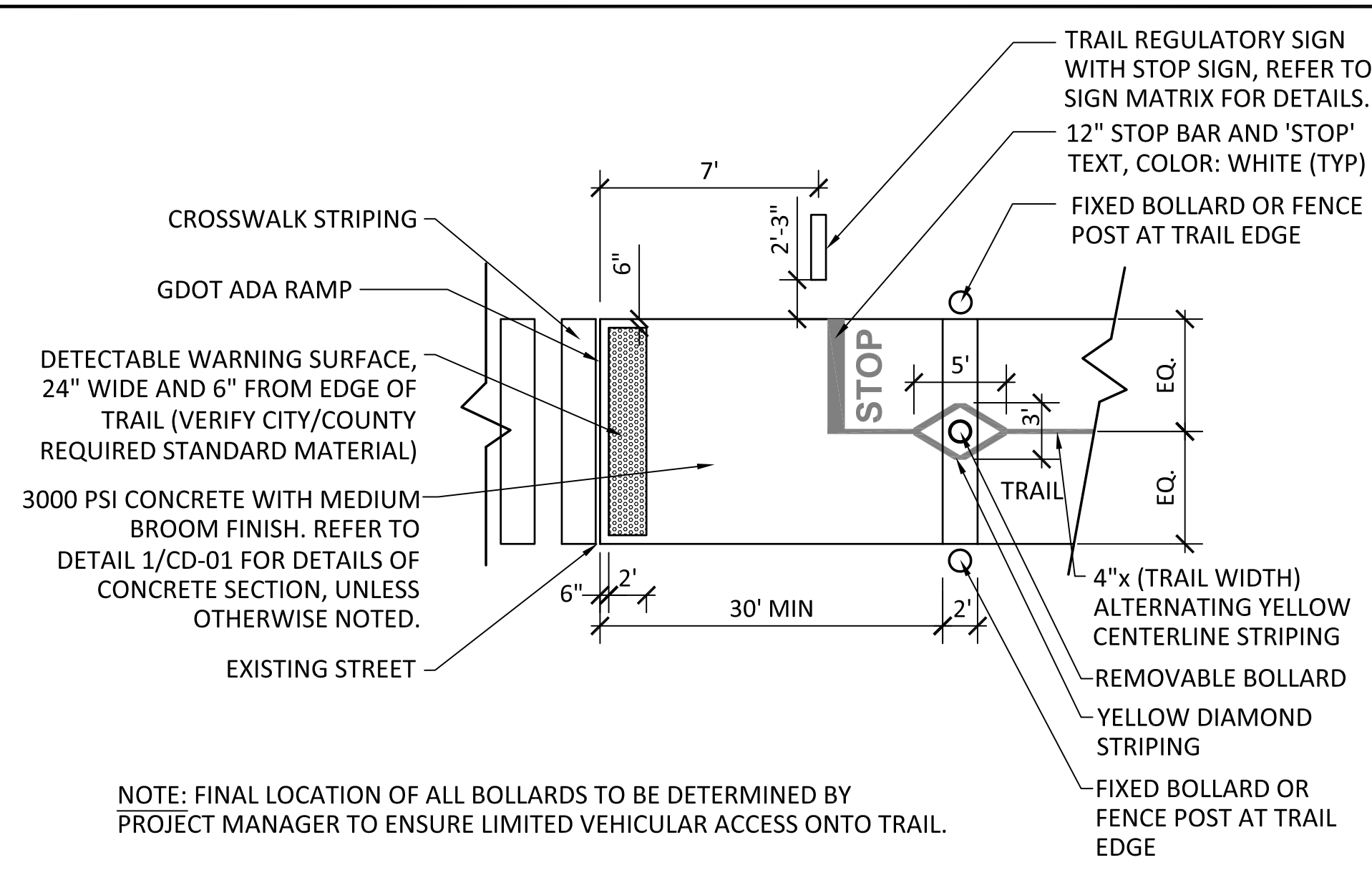
LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA



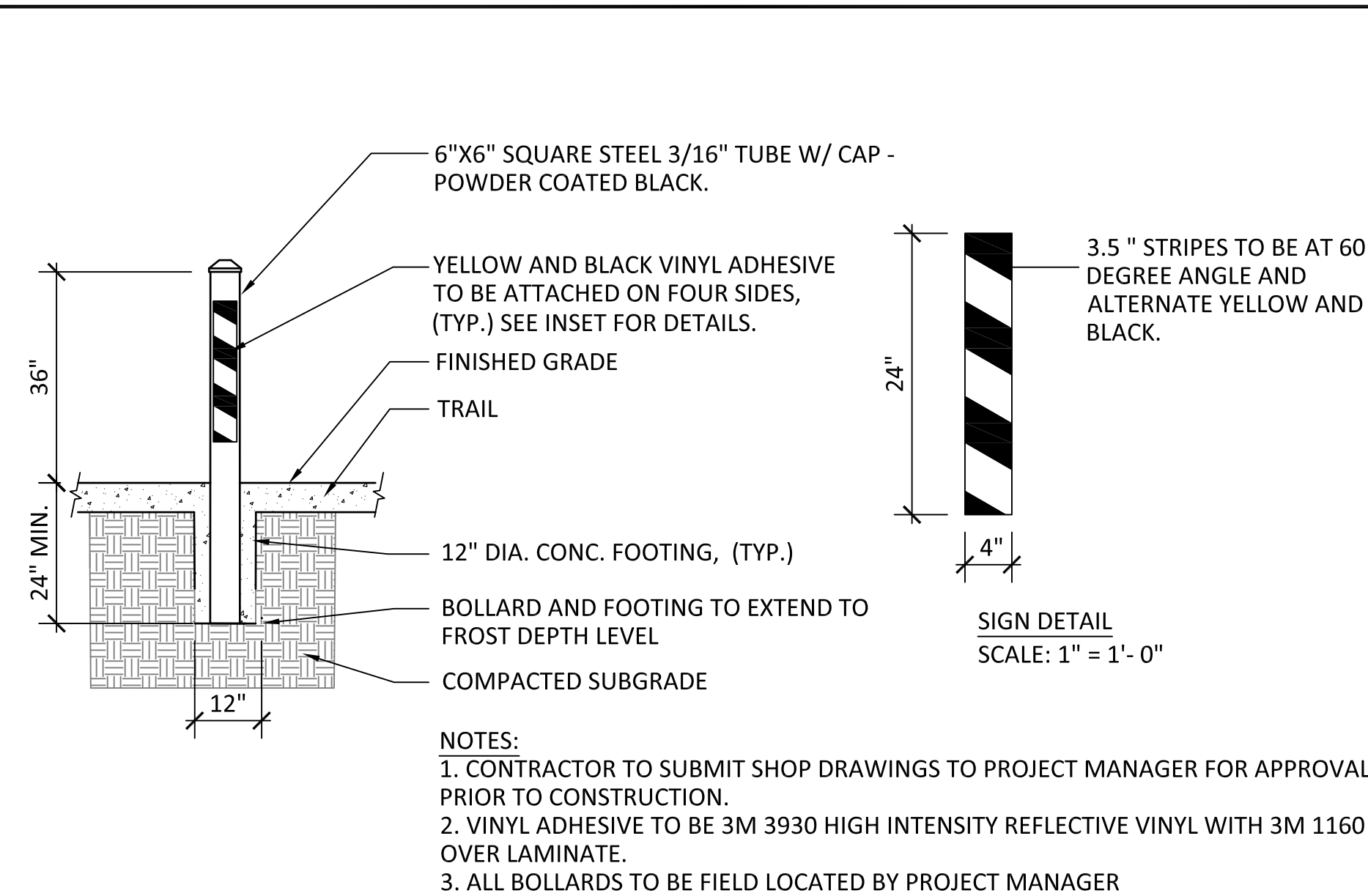
CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	MAY 8, 2020

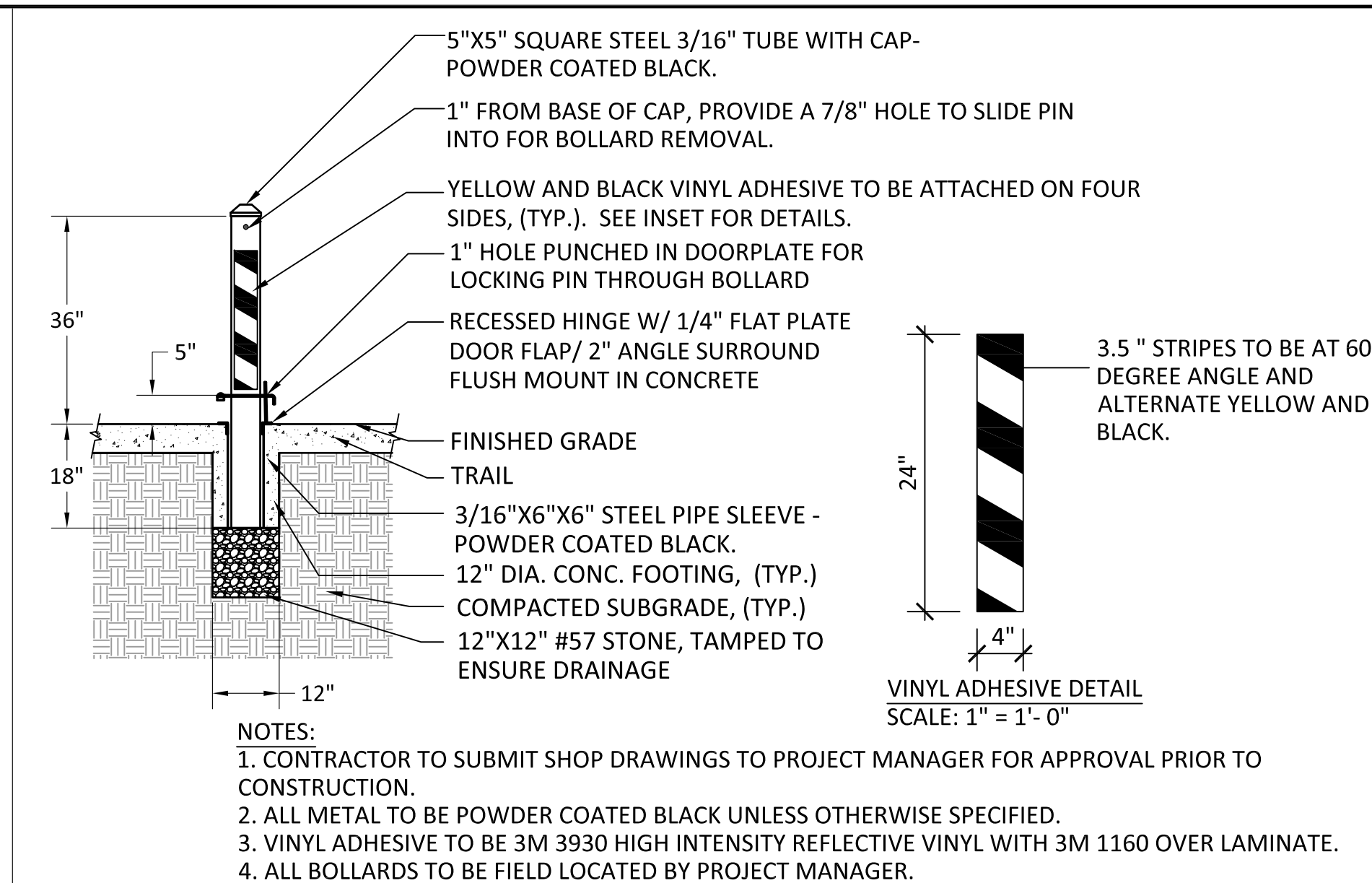
SHEET # **CD-01**



1 STANDARD INTERSECTION: PLAN VIEW
 CD-02 SCALE: 1/8" = 1'-0"

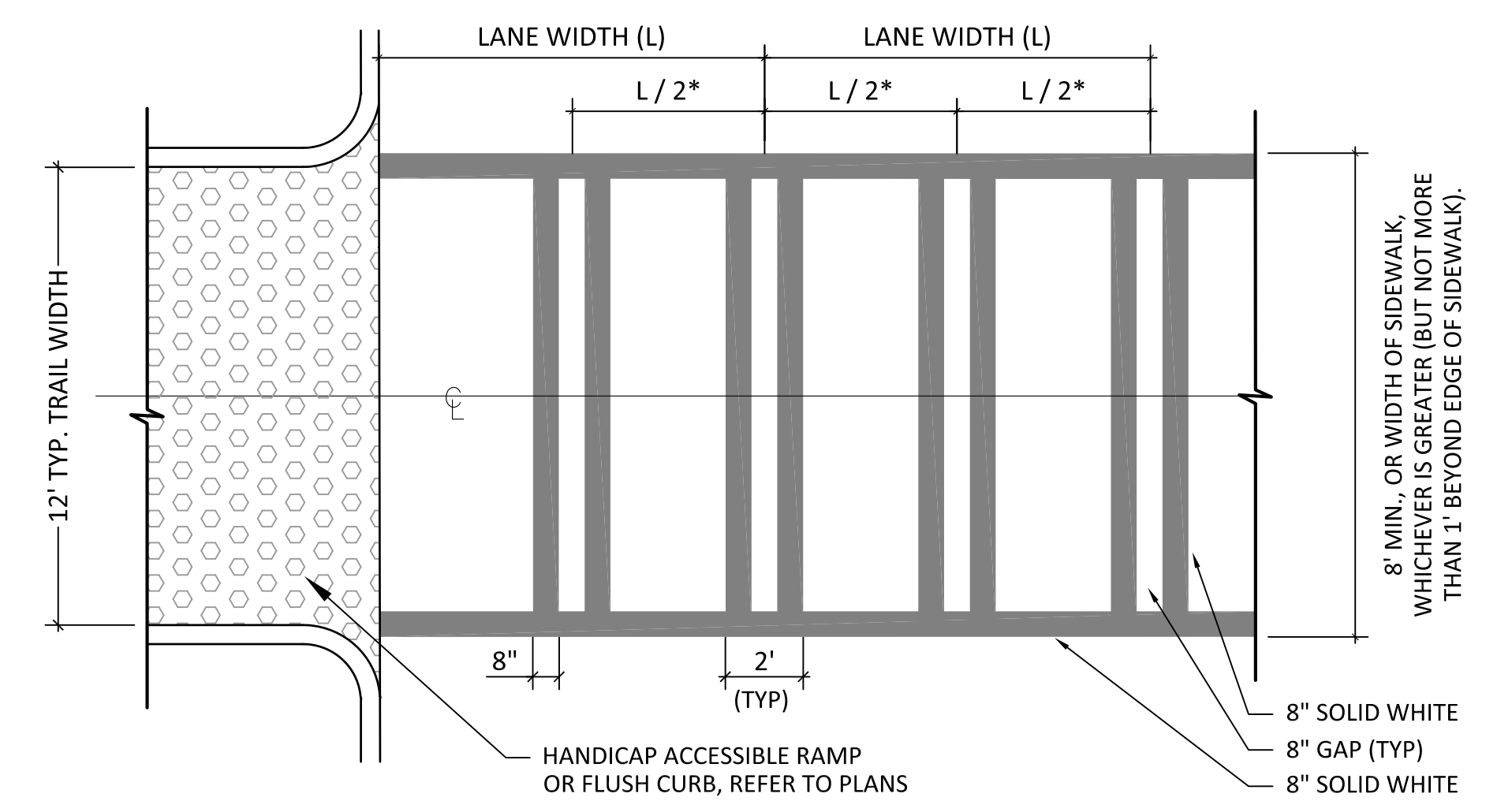


2 FIXED BOLLARD
 CD-02 SCALE: 1/2" = 1'-0"

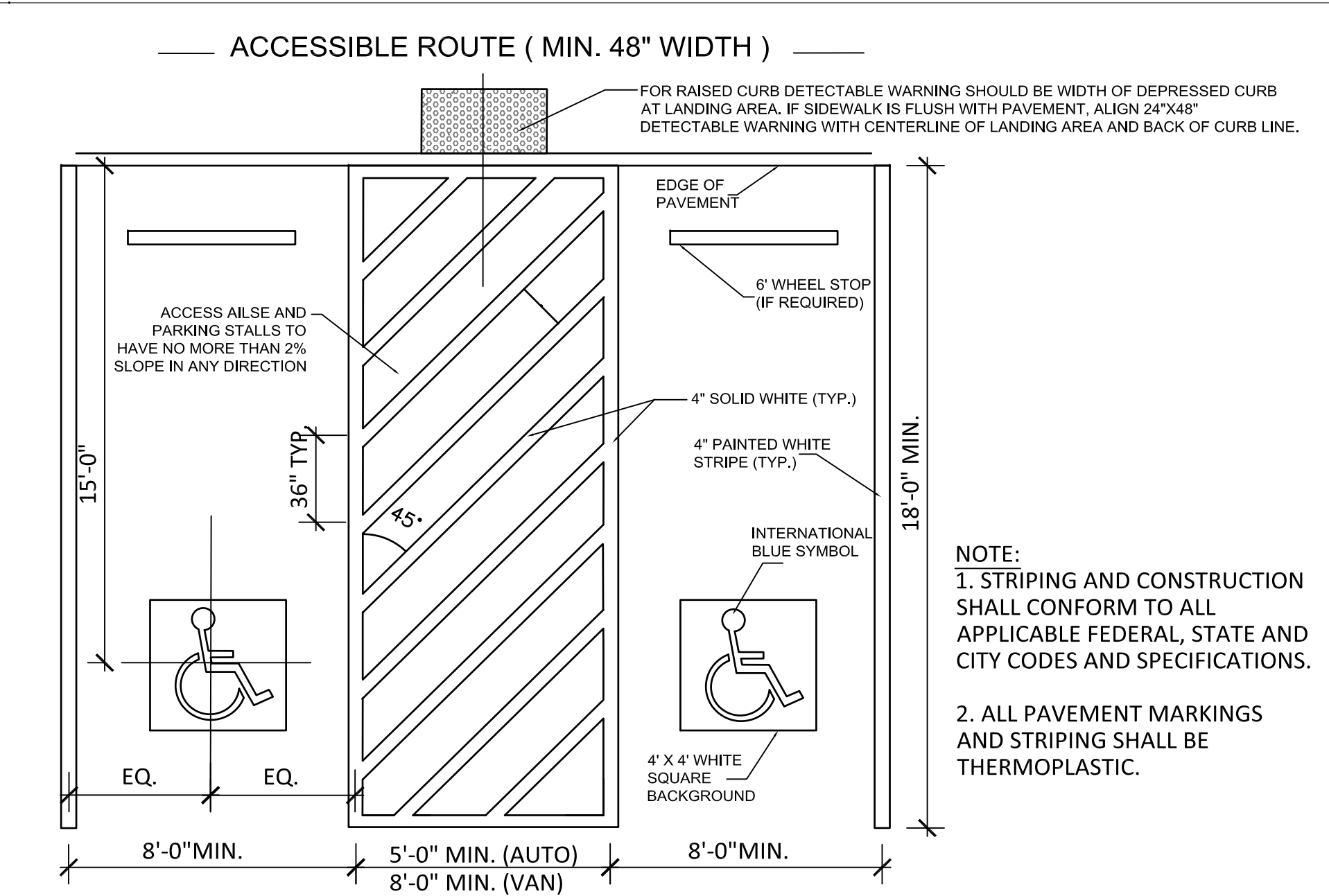


3 REMOVABLE DOOR PLATE BOLLARD
 CD-02 SCALE: 1/2" = 1'-0"

NOTES:
 1. ALL CROSSWALK MARKINGS TO BE ALKYO THERMOPLASTIC WITH CLEAN CUT EDGES (TYP.). CONFORM TO GDOT STANDARD SPECIFICATIONS FOR INSTALLATION, COLOR, AND FINISH.
 *USE 5' FOR (L/2) WHEN LANE WIDTH EXCEEDS 12', OR WHERE LANE LINES HAVE BEEN OMITTED.

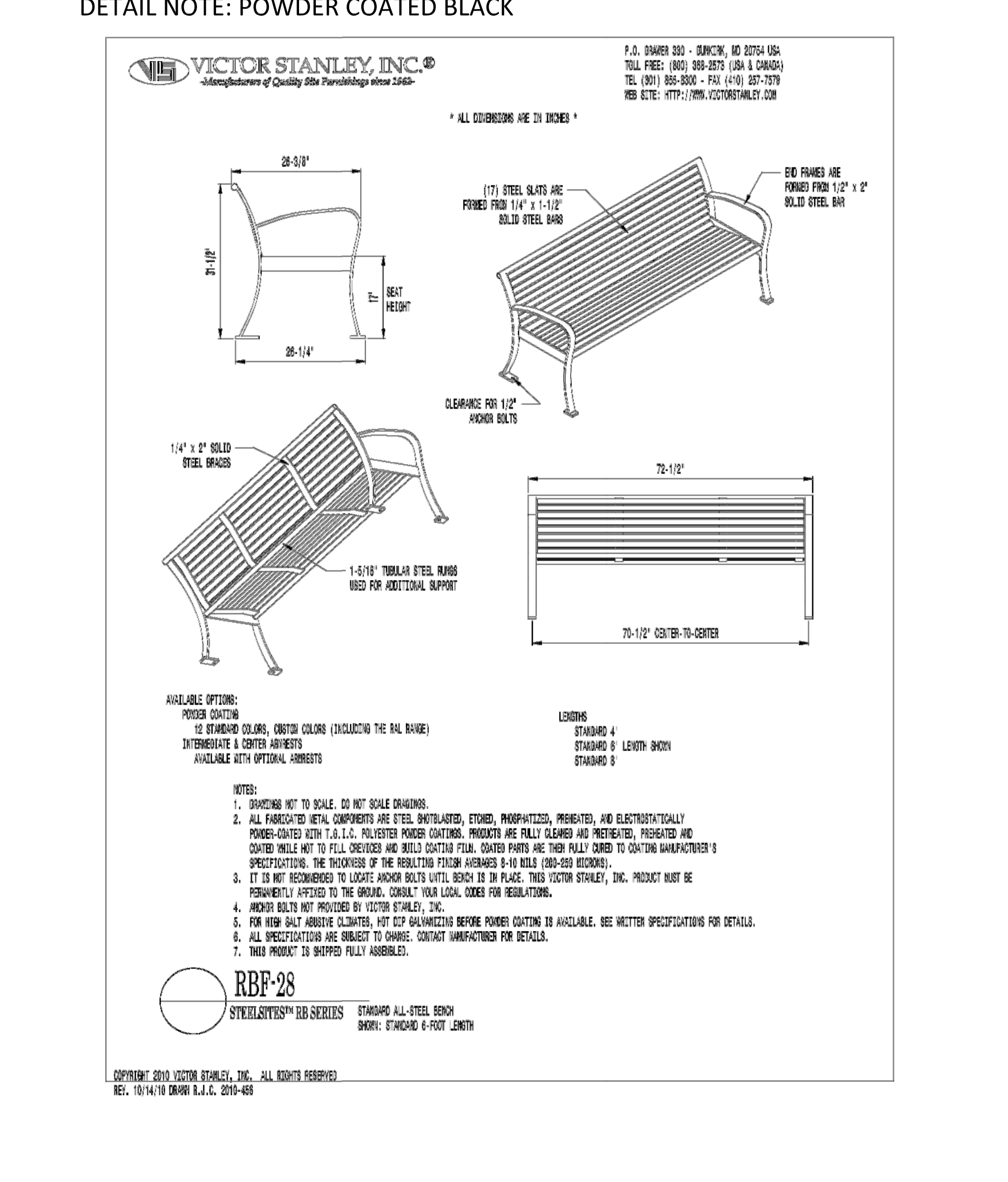


4 GDOT CROSSWALK STRIPING
 CD-02 SCALE: 1/4" = 1'-0"



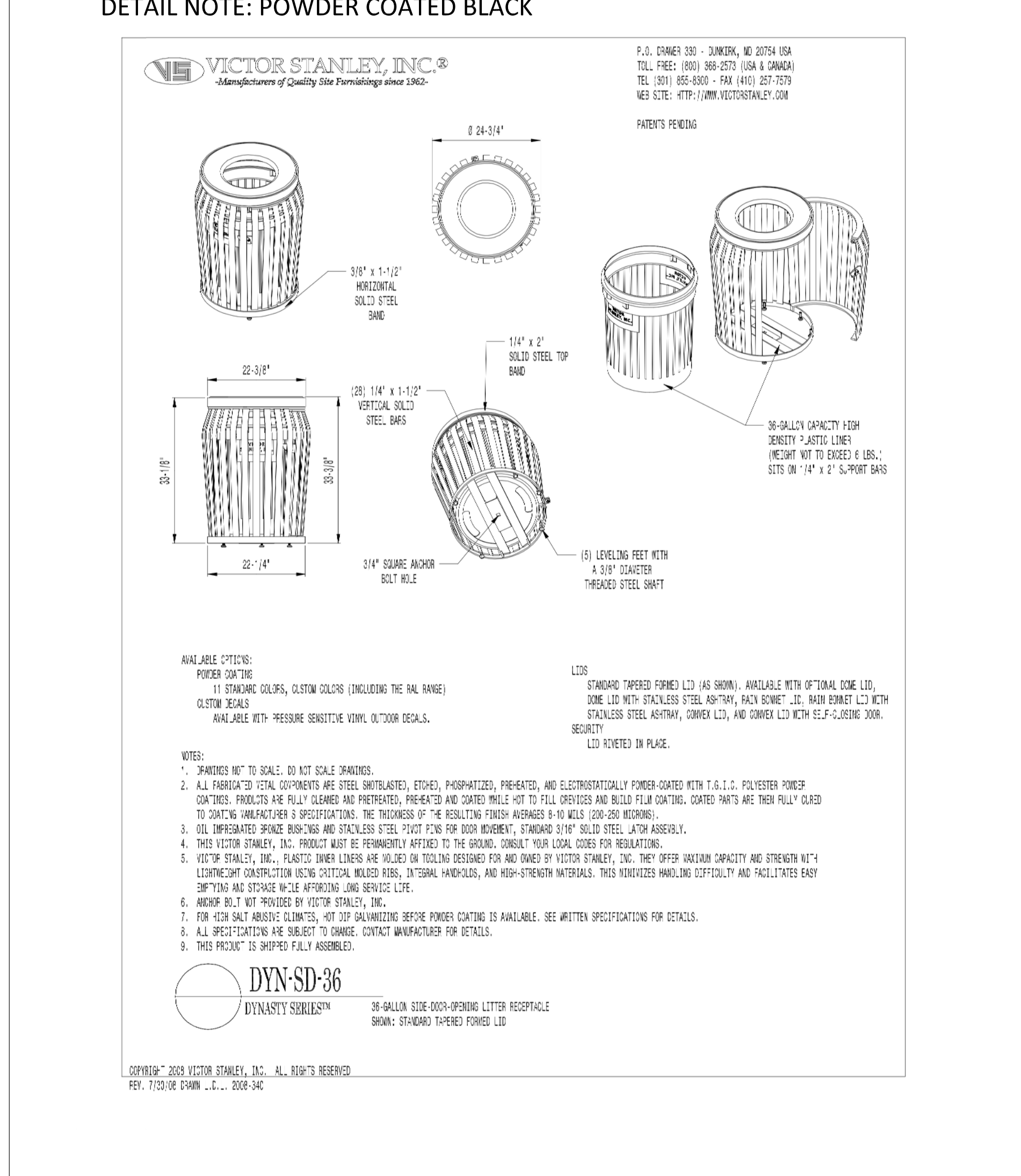
5 HANDICAP PARKING STRIPING DETAIL
 CD-02 1/2" = 1'-0"

DETAIL NOTE: POWDER COATED BLACK



6 BENCH DETAIL - BY VICTOR STANLEY
 CD-02 N.T.S

DETAIL NOTE: POWDER COATED BLACK



7 TRASH RECEPTACLE DETAIL - BY VICTOR STANLEY
 CD-02 N.T.S

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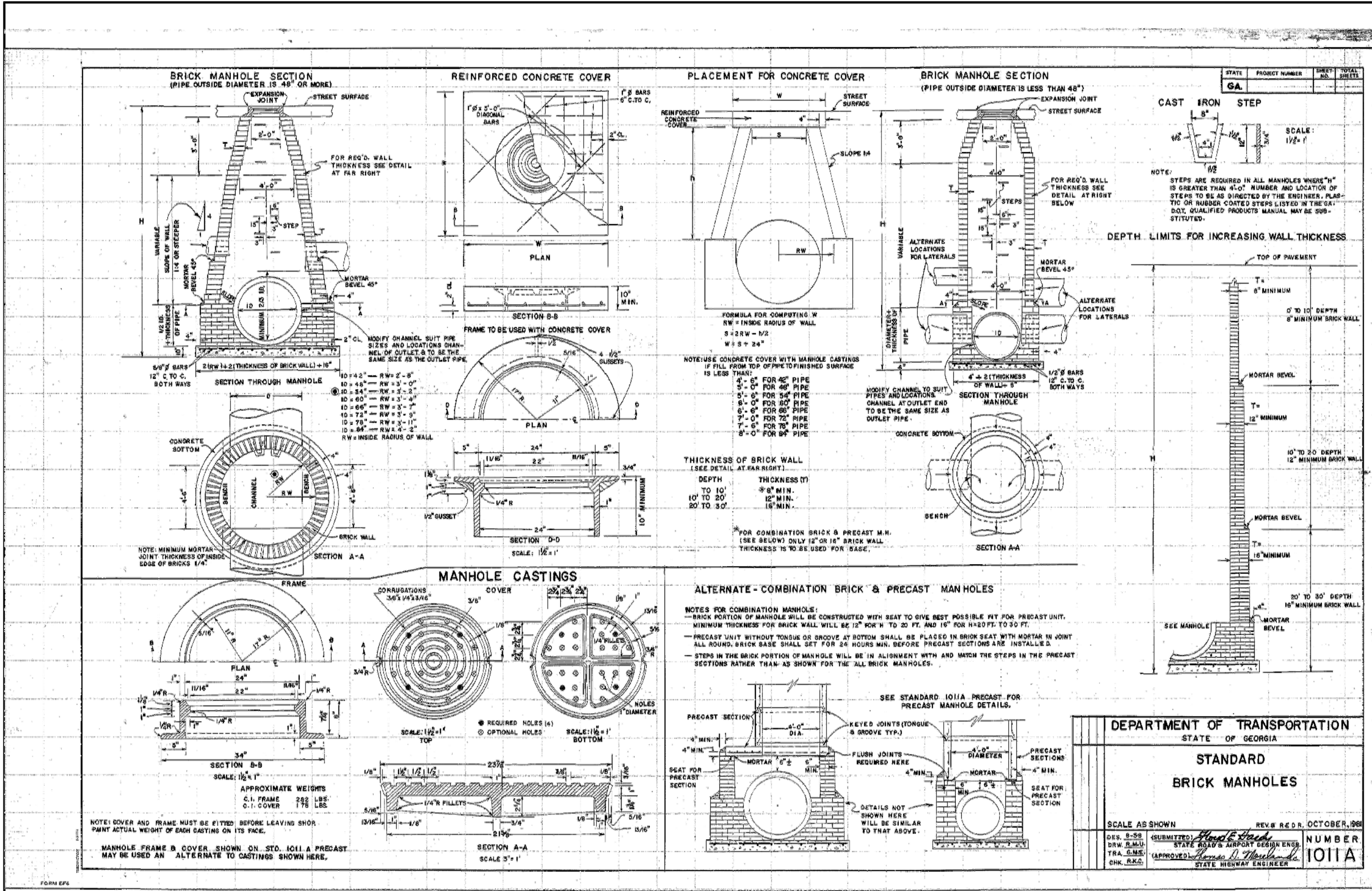
PROJECT #	2020-196
PROJECT MANAGER	NS

LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA

REGISTERED PROFESSIONAL ENGINEER
 No. 31674
 M. ABBOTT
 05/08/20

CONSTRUCTION DETAILS

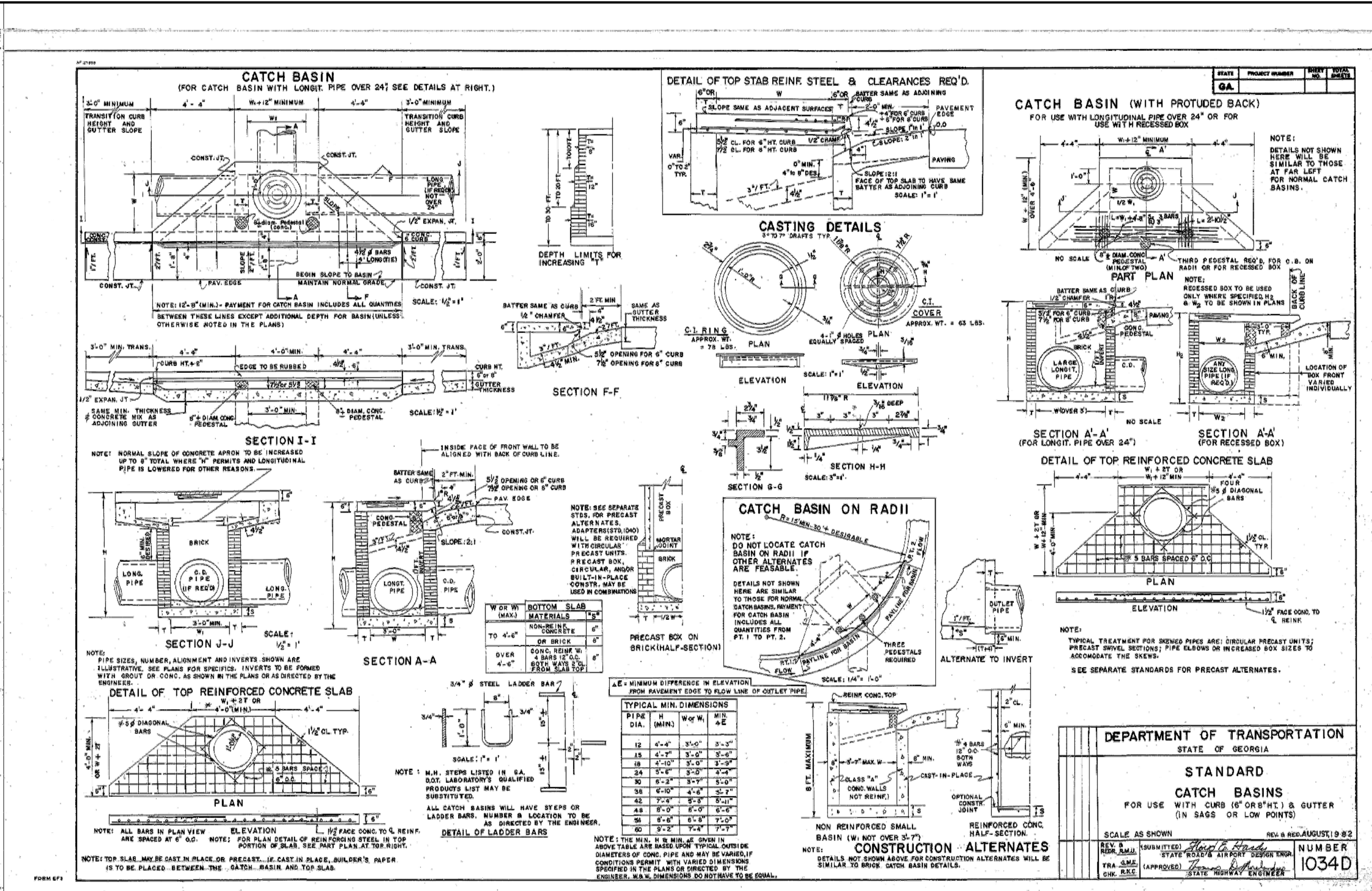
SCALE	AS SHOWN
DATE	MAY 8, 2020
SHEET #	CD-02



1
CD-04

GDOT 1011A - BRICK MANHOLE DETAIL

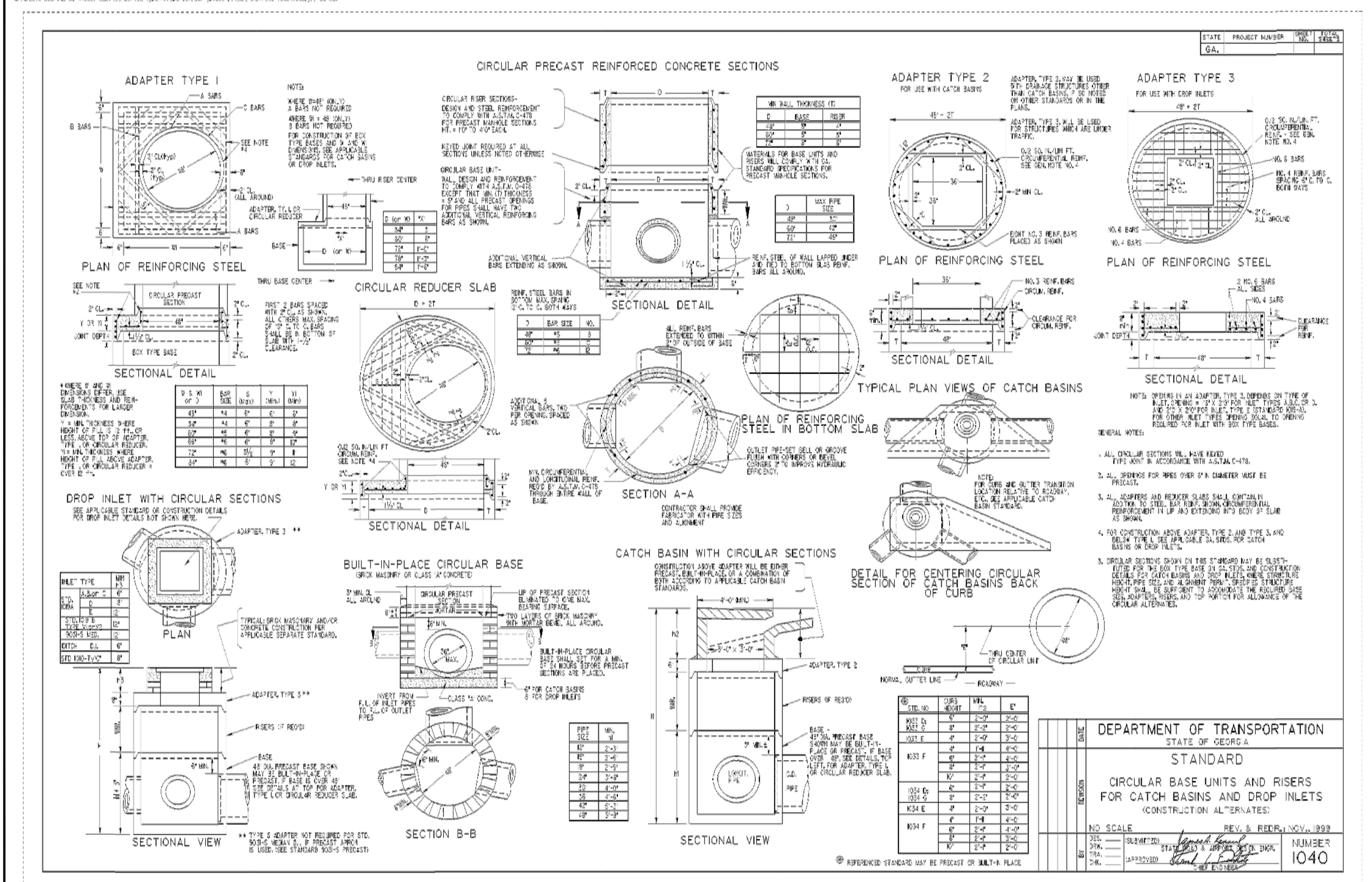
N.T.S.



2
CD-04

GDOT 1034D - CATCH BASIN DETAIL

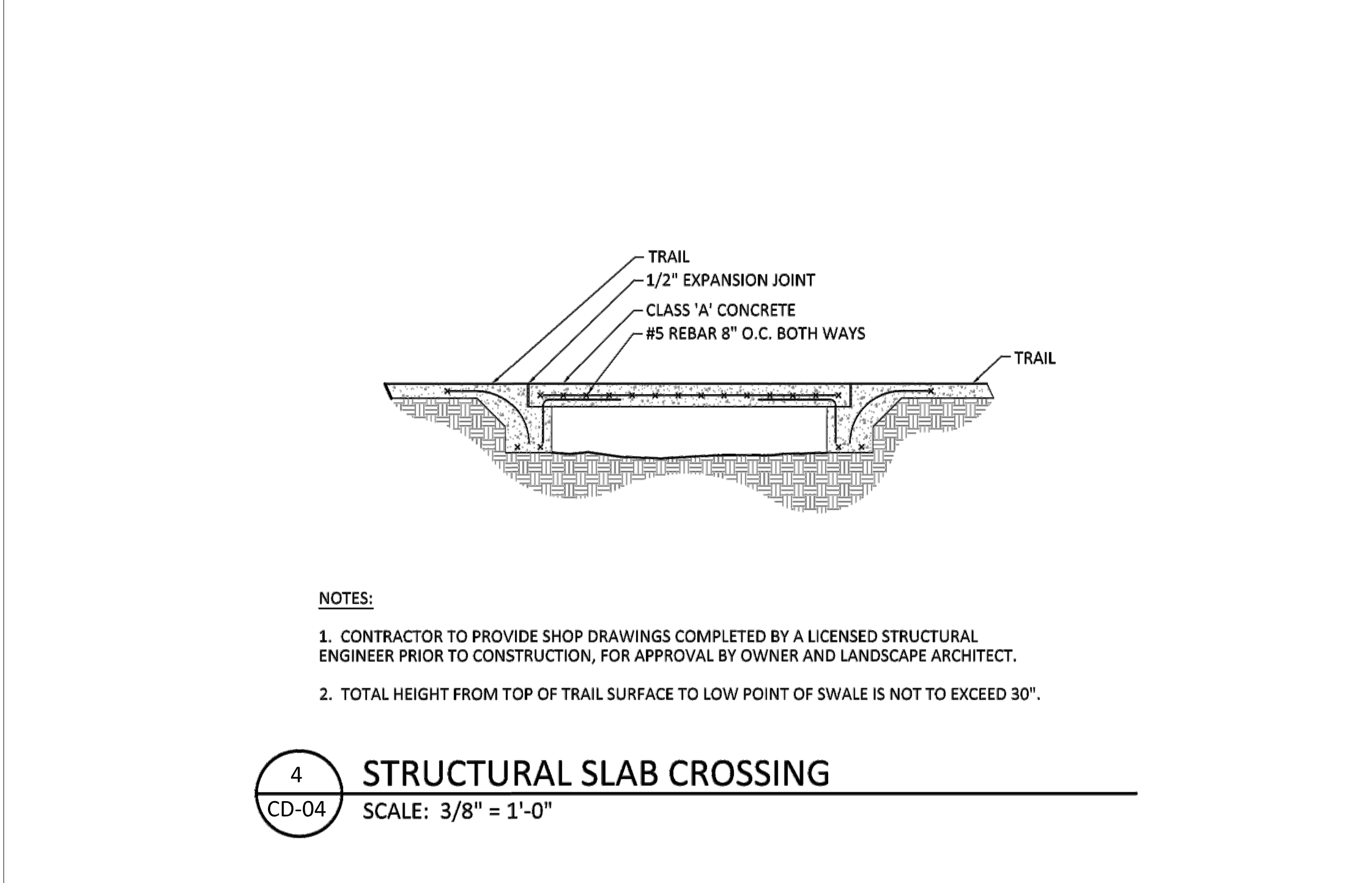
N.T.S.



3
CD-04

GDOT 1040 - CIRCULAR BASE UNITS AND RISERS

N.T.S.



4
CD-04

STRUCTURAL SLAB CROSSING

SCALE: 3/8" = 1'-0"

- NOTES:**
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS COMPLETED BY A LICENSED STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION, FOR APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.
 2. TOTAL HEIGHT FROM TOP OF TRAIL SURFACE TO LOW POINT OF SWALE IS NOT TO EXCEED 30".

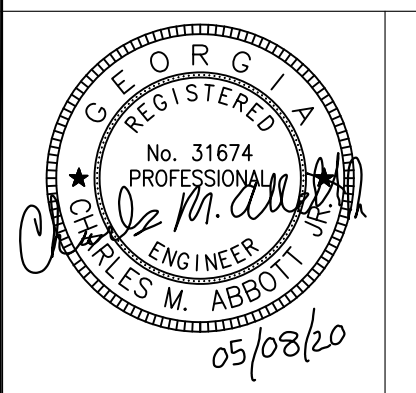
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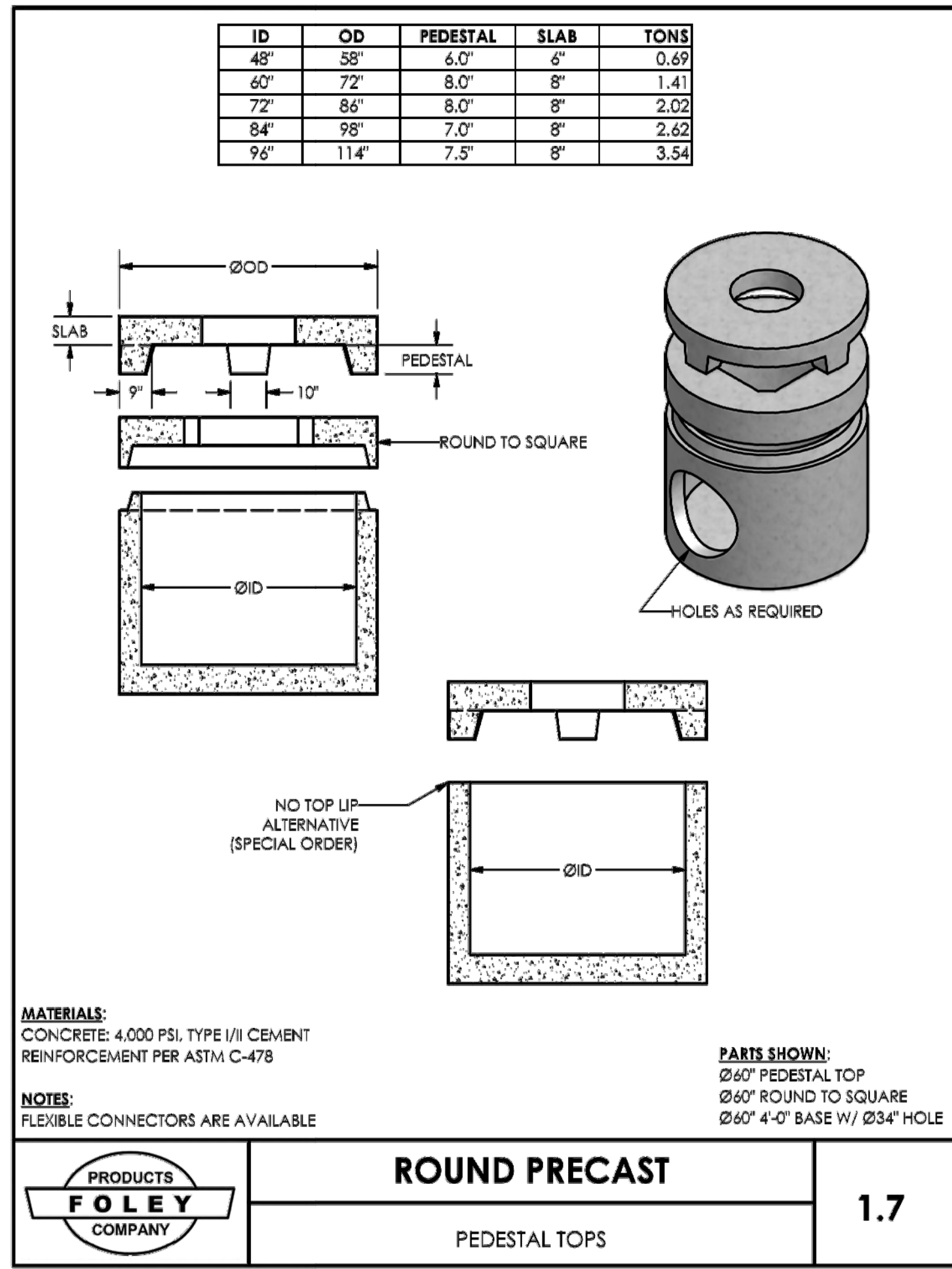
LAGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LAGRANGE, GA



CONSTRUCTION DETAILS

SCALE AS SHOWN
DATE MAY 8, 2020

SHEET # **CD-04**

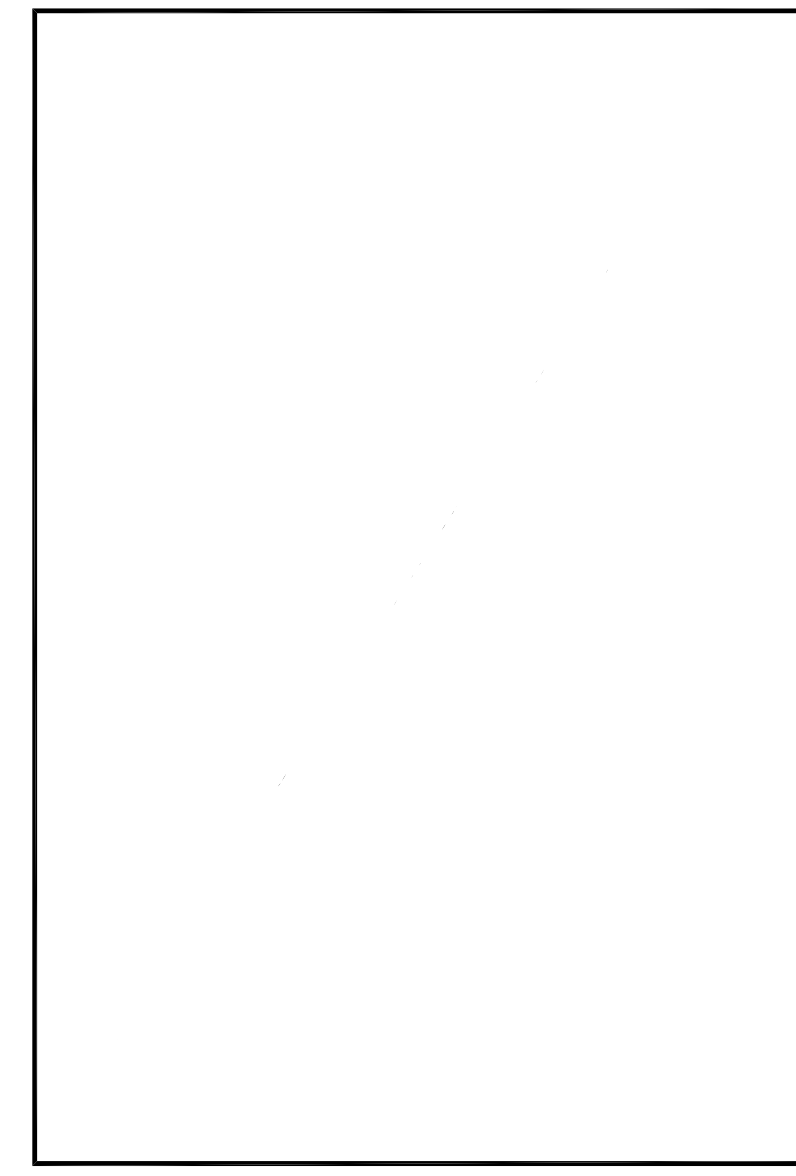


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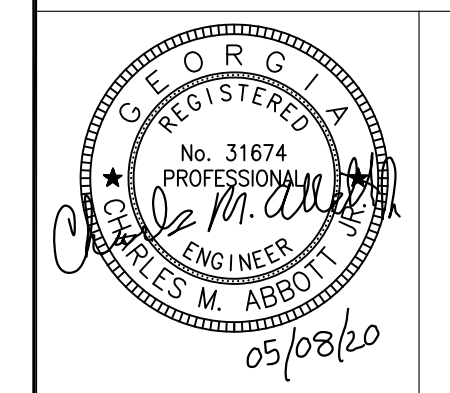
1 FOLEY PRECAST PEDESTAL TOP (OR APPROVED EQUAL)
CD-05 N.T.S.



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**LAGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LAGRANGE, GA**

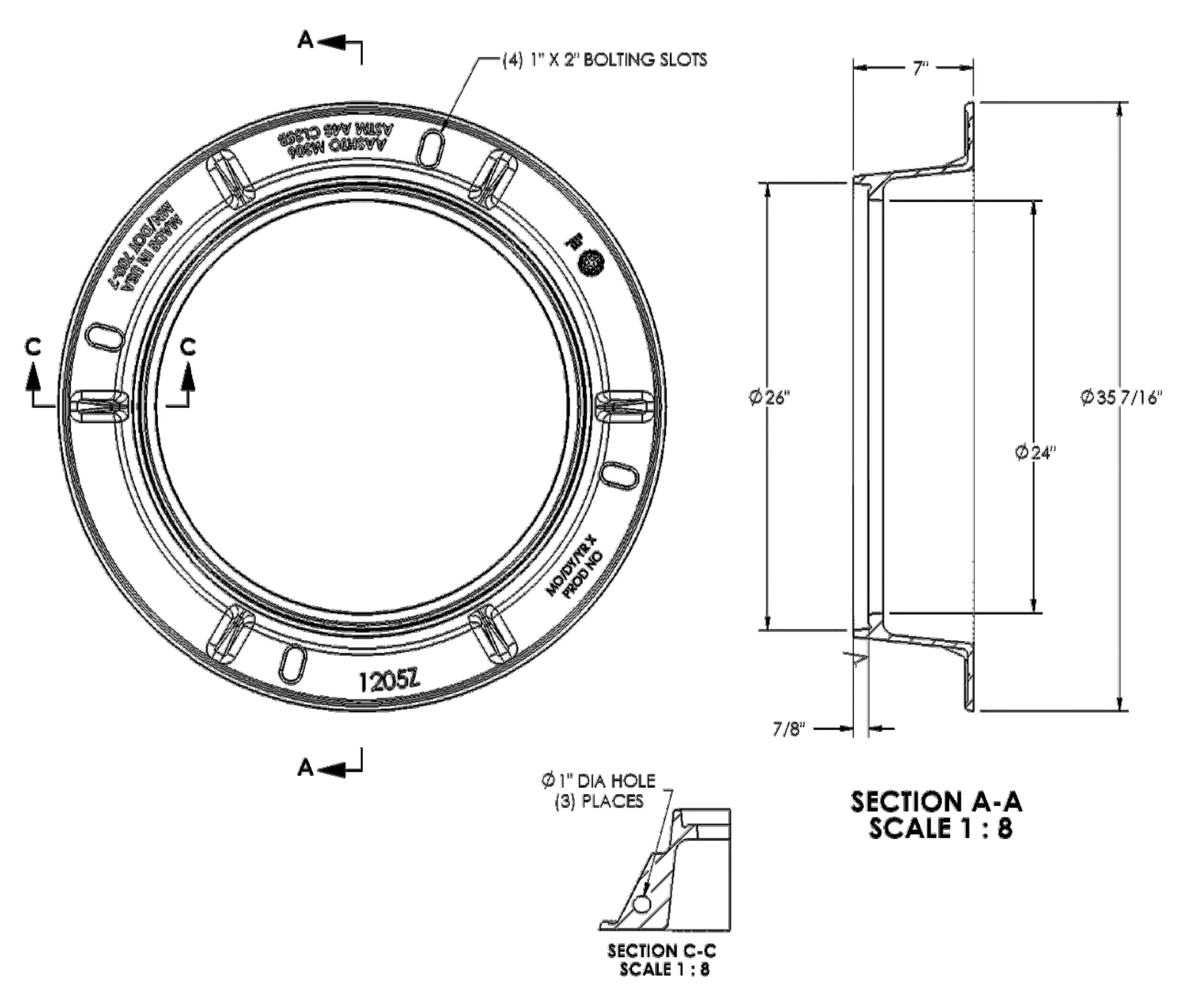


CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	MAY 8, 2020

SHEET # **CD-05**

1205Z Frame



Product Number
00120811

Design Features

- Materials: Gray Iron (CL35B)
- Design Load: Heavy Duty
- Open Area: n/a
- Coating: Undipped
- Designates Machined Surface

Certification

- ASTM A48
- AASHTO M308
- Country of Origin: USA

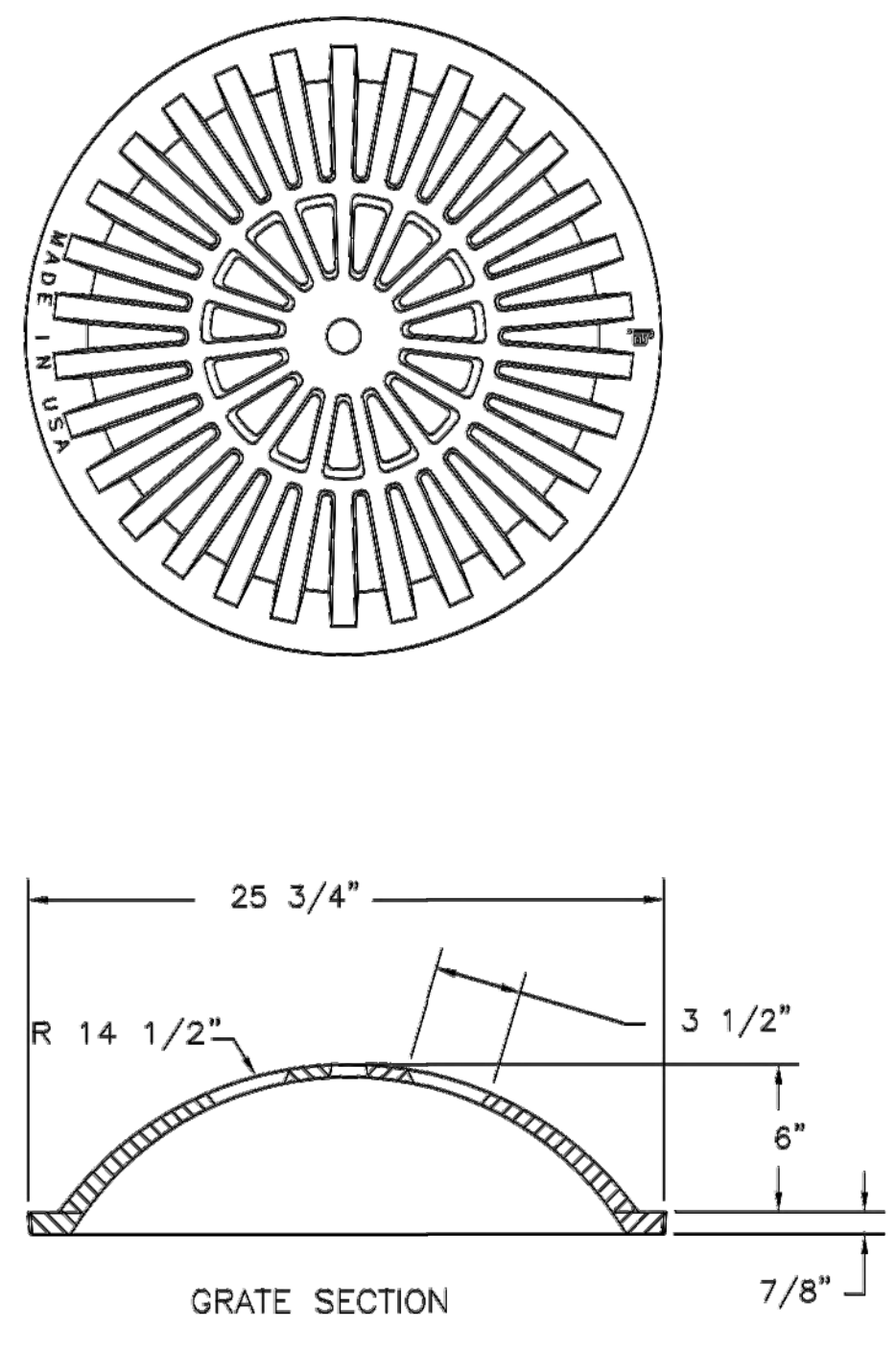
Estimated Weight
118.0 lbs.

Drawing Revision
7/1/2008 Designer: SBB
4/17/2017 Revised By: MAH

Disclaimer
Weights (lbs.), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

Contact
800 828 4853
ejco.com

1205 O2 Grate



Product Number
00120545

Design Features

- Materials: Gray Iron (CL35B)
- Design Load: Heavy Duty
- Open Area: 185 sq in
- Coating: Undipped
- Designates Machined Surface

Certification

- ASTM A48
- AASHTO M308
- Country of Origin: USA

Drawing Revision
05/10/2008 Designer: DEW
01/09/2014 Revised By: DAE

Disclaimer
Weights (lbs.), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

Contact
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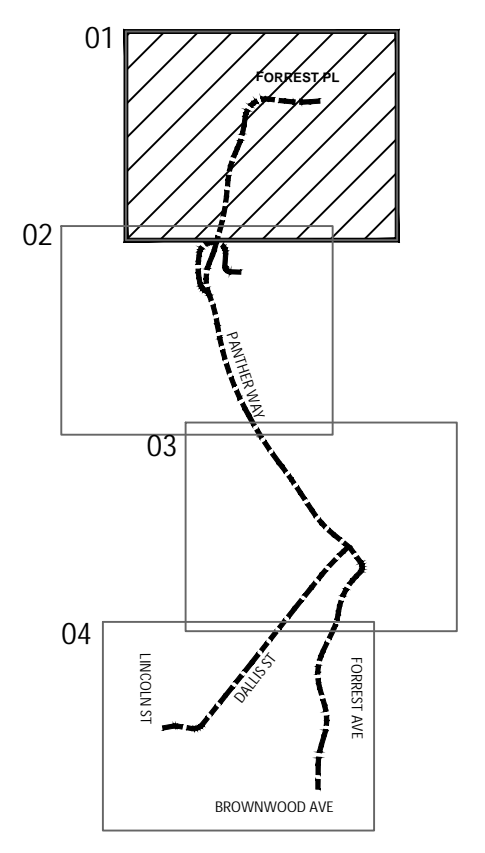
2 EJ 1205Z FRAME AND 1205 GRATE (OR APPROVED EQUAL)
CD-05 N.T.S.

NOTE:
 *EROSION CONTROL DATA & DETAILS ARE CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR SHEET. THIS SITE IS NOT LOCATED WITHIN 200' (FEET) OF STATE WATERS
 TOTAL SITE AREA 1.82 ACRES
 (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL FOR THE LENGTH OF THE PROJECT)
 DISTURBED AREA 3.4 ACRES

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

KAIZEN COLLABORATIVE
 2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

GEORGIA & WEST, INC.
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 105 CORPORATE DRIVE OFFICE (770) 854-4684
 CARROLLTON, GA 30117 FAX (770) 854-1055
 E-MAIL: malbor@georgiawest.com



Key Map
 north

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

PROJECT #	2019 - 196
PROJECT MANAGER	NS

LaGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LaGRANGE, GA



EROSION CONTROL PLAN

SCALE	1" = 30'
DATE	MAY 8, 2020

SHEET # **EC-01**

PATH FOUNDATION
 NAME: JONATHAN McCAIG
 ATTN: JONATHAN McCAIG
 TELEPHONE #: 404-433-1900

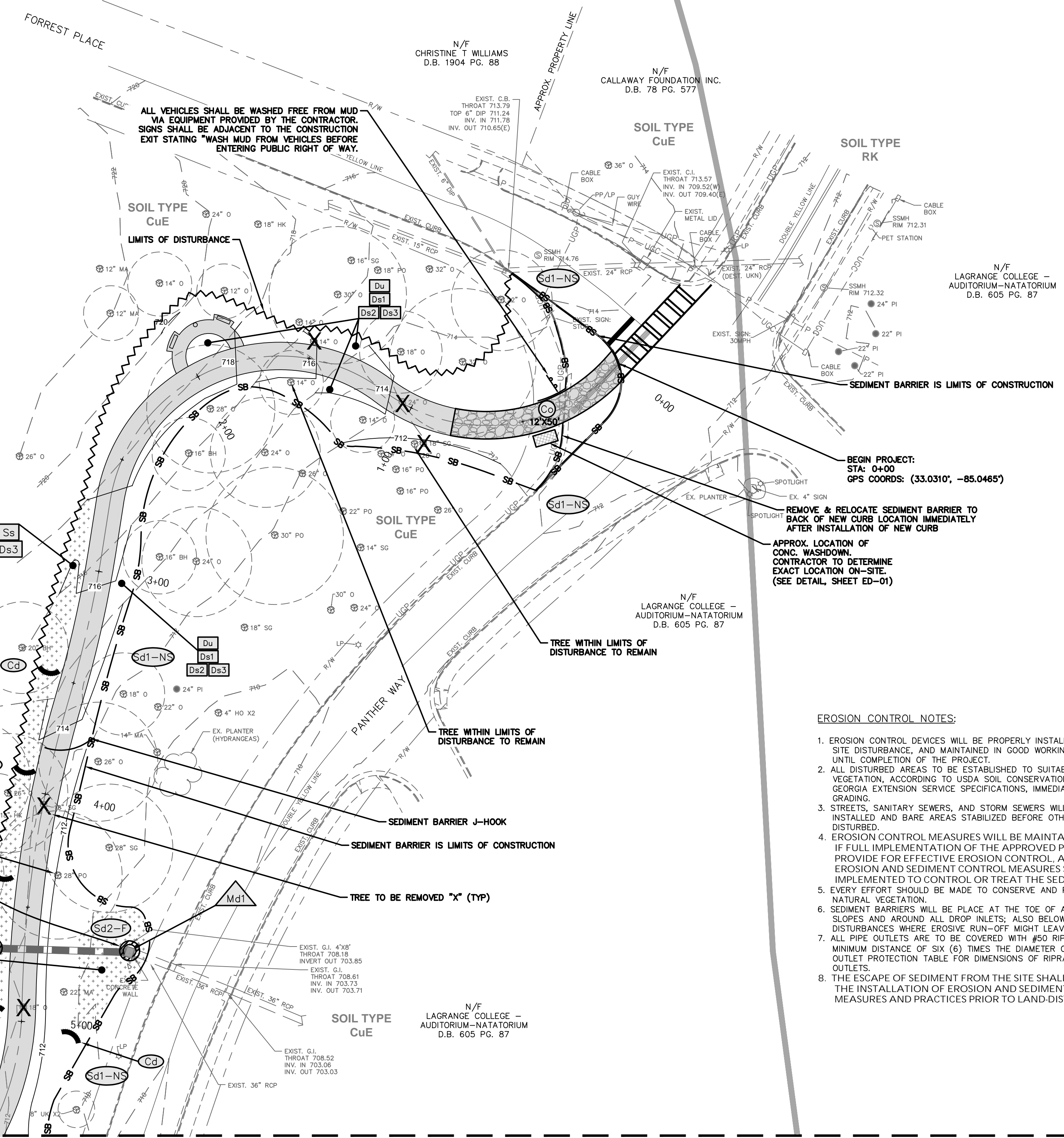
CONSTRUCTION MANAGEMENT
PATH FOUNDATION
 JONATHAN McCAIG - 24 HOUR CONTACT
 GA GSWCC LEVEL 1 CERTIFICATION # 58893
 EXP. 08/17/2021
 office 404-875-7284 x5 cell 404-433-1900

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 ATTN: ERIC MOSLEY
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 706-883-1610
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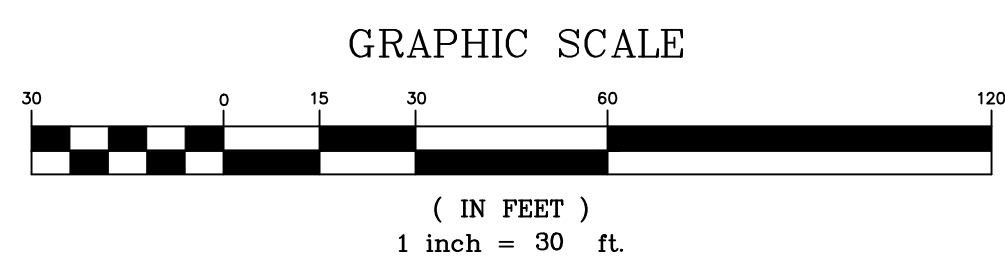
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- EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
- ALL DISTURBED AREAS TO BE ESTABLISHED TO SUITABLE PERENNIAL VEGETATION, ACCORDING TO USDA SOIL CONSERVATION SERVICE OR GEORGIA EXTENSION SERVICE SPECIFICATIONS, IMMEDIATELY AFTER FINAL GRADING.
- STREETS, SANITARY SEWERS, AND STORM SEWERS WILL BE INSTALLED AND BARE AREAS STABILIZED BEFORE OTHER AREAS ARE DISTURBED.
- 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.
- EVERY EFFORT SHOULD BE MADE TO CONSERVE AND PROTECT NATURAL VEGETATION.
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- 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.
- 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.

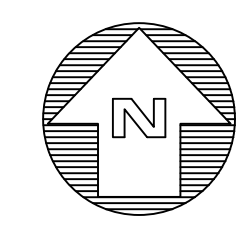
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- NON-COMPLIANT SITES CAN BE FINED UP TO \$2,500.00 DOLLARS PER DAY, PER VIOLATION AS SET OUT BY THE EROSION AND SEDIMENT CONTROL ACT. THE GEORGIA WATER QUALITY CONTROL ACT PROVIDES FOR FINES UP TO \$50,000.00 DOLLARS PER DAY, PER VIOLATION!
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- ANY AMENDMENTS/REVISIONS TO THE EROSION AND POLLUTION CONTROL PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- 24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:



MATCHLINE STA 5+50
 SEE SHEET EC-02

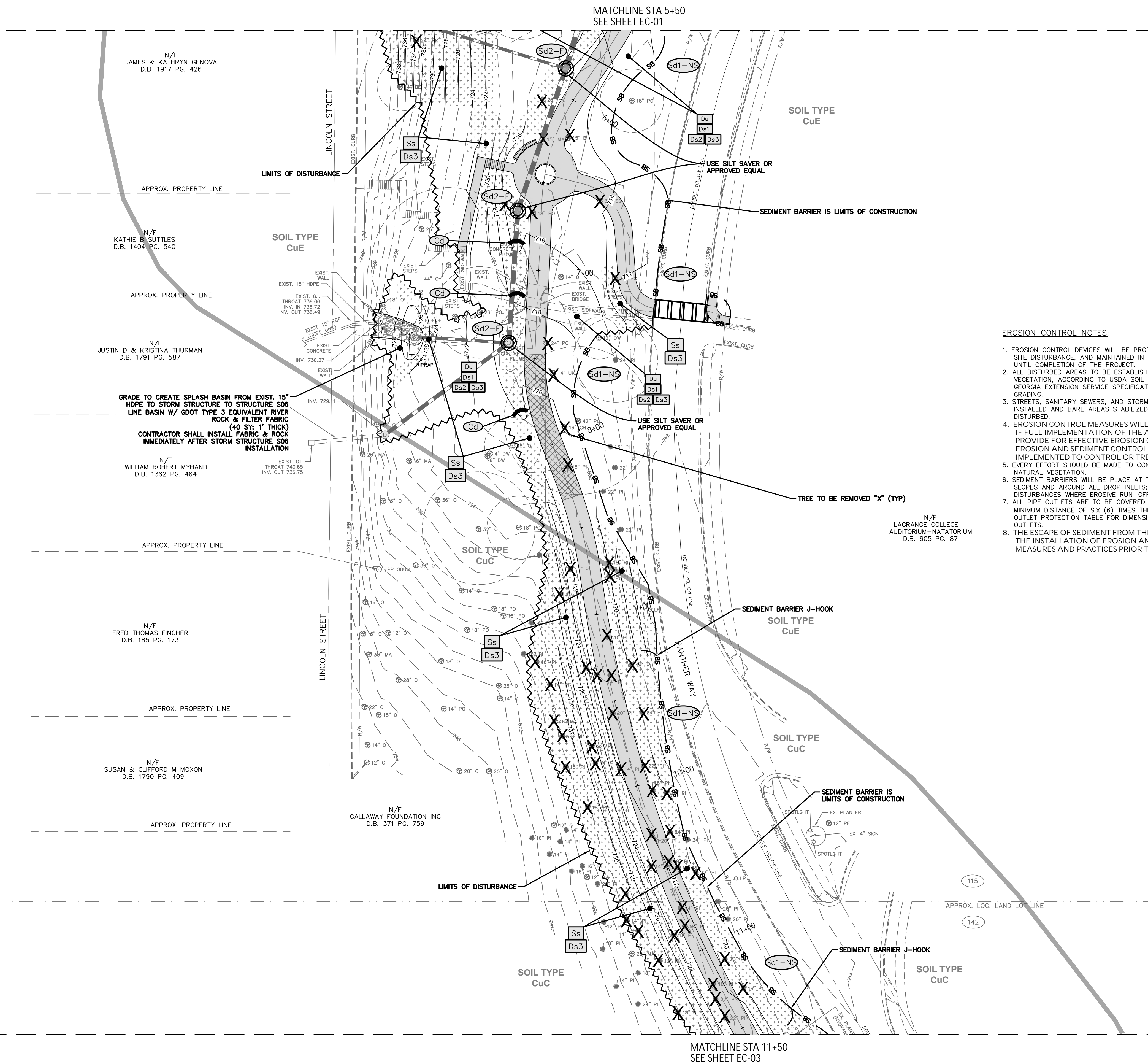


THE F.I.R.M. PANEL 13285C0143E DATE 07/03/2012 INDICATES THIS PROPERTY OR A PORTION IS LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS; THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND FIRM PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.



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- 24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:
 NAME: JONATHAN McCAIG
 TITLE: ATTN: JONATHAN McCAIG
 TELEPHONE #: 404-433-1900

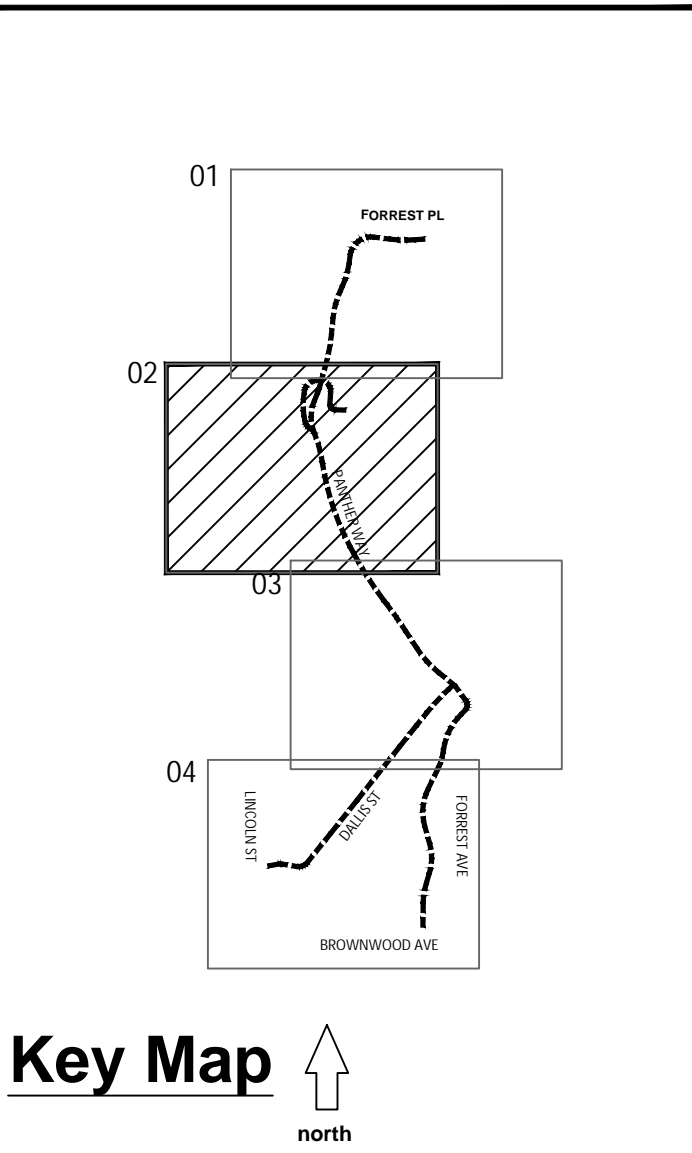
CONSTRUCTION MANAGEMENT
PATH FOUNDATION
 JONATHAN McCAIG - 24 HOUR CONTACT
 GA GSWCC LEVEL 1 CERTIFICATION # 58893
 EXP. 08/17/2021
 office 404-875-7284 x5 cell 404-433-1900

OWNER/DEVELOPER:
 TROUP COUNTY
 ATTN: ERIC MOSLEY
 100 RIDLEY AVENUE
 LAGRANGE, GA 30240
 706-883-1610
 emosley@trouppcountyga.gov

NOTE:
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 DISTURBED AREA 3.4 ACRES

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

PROJECT #	2019 - 196
PROJECT MANAGER	NS

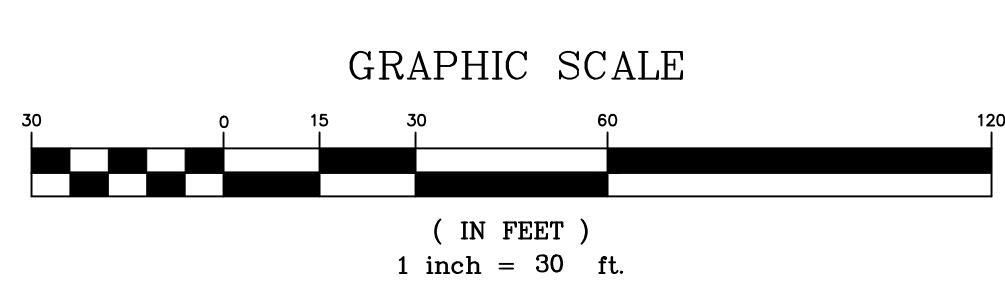
LaGRANGE THREAT PHASE 8 - PANTHER PARK TRAIL
LaGRANGE, GA



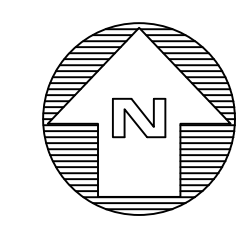
EROSION CONTROL PLAN

SCALE	1" = 30'
DATE	MAY 8, 2020

SHEET # **EC-02**



THE F.I.R.M. PANEL 13285C0143E 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.



C:\Users\jw\Dropbox\202003_KAIZEN\LAGRANGE THREAD-PANTHER PARK RTP\DWG\202003_X.CONST.dwg, 5/8/2020 1:04:42 PM

EROSION CONTROL NOTES:

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NOTES:

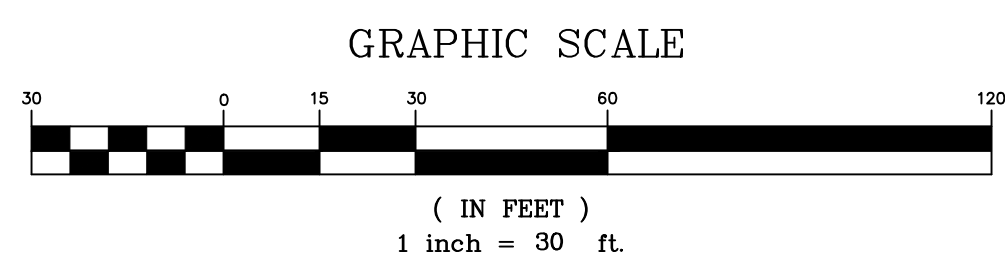
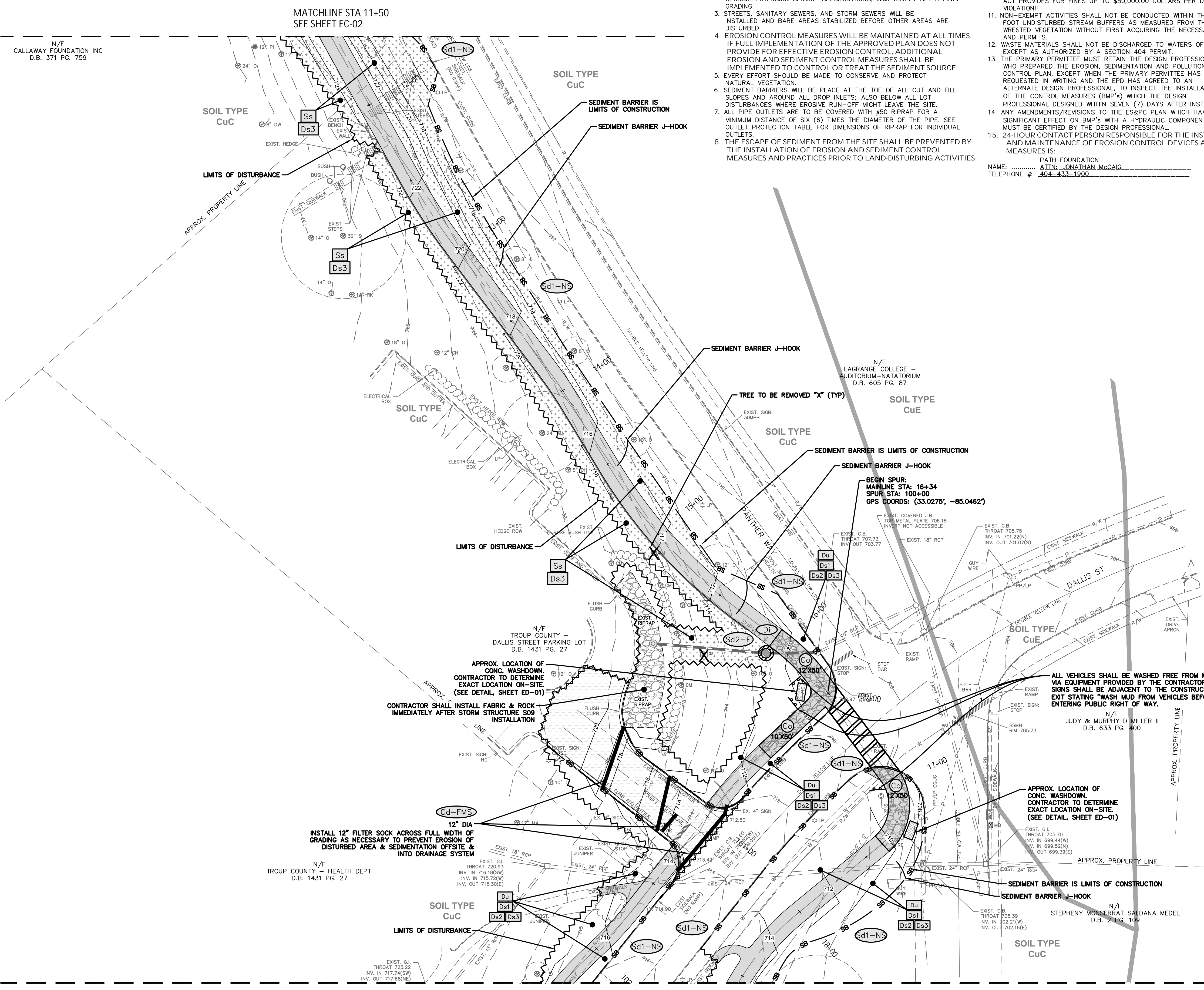
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CONSTRUCTION MANAGEMENT

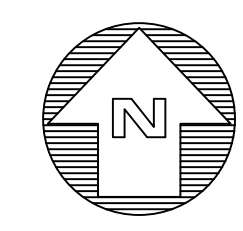
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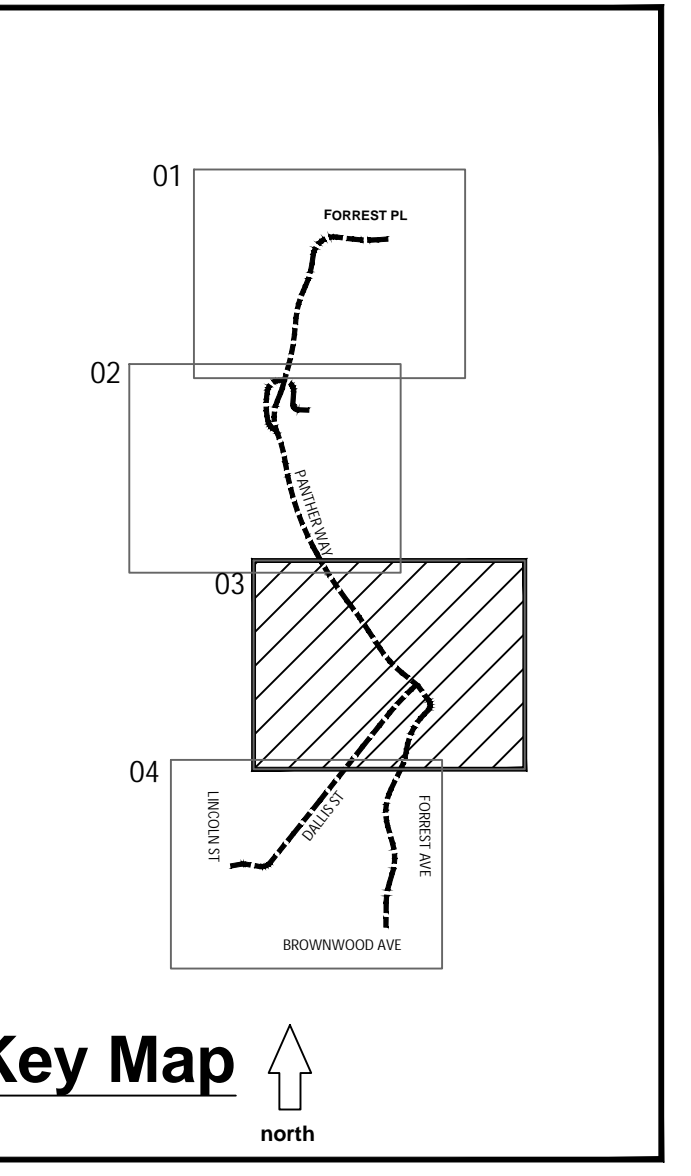


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KAIZEN COLLABORATIVE
 2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

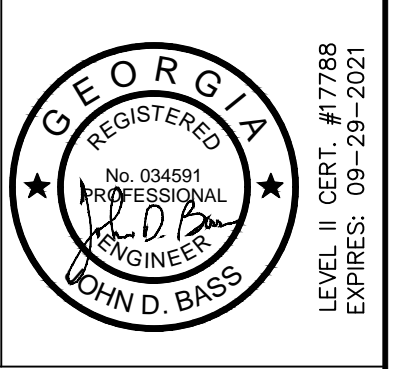
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DATE	DESCRIPTION
03/17/2020	50% REVIEW
04/21/2020	90% REVIEW
05/08/2020	100% ISSUE FOR PERMIT

PROJECT #	2019 - 196
PROJECT MANAGER	NS

LaGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL
 LaGRANGE, GA



EROSION CONTROL PLAN

SCALE	1" = 30'
DATE	MAY 8, 2020

SHEET # **EC-03**

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

Project Name: SWDC - LAGRANGE THREAD PHASE B - PANTHER PARK TRAIL
Address: G.P.S. COORDS: BEGIN (33.03107, -85.04657) END (33.0255, -85.04657)
City/County: CITY OF LAGRANGE, TROUP COUNTY, GEORGIA
Date on Plans: MAY 8, 2020
Name & email of person filling out checklist: LUKE WOODK; LWOODK@GEORGIAANDWEST.COM

Plan	Included	TO BE SHOWN ON ES&PC PLAN
Page #	Y/N	
ED-01	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. <i>(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)</i>
ALL	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. <i>(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)</i>
EC-SERIES	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
EC-SERIES	Y	4 Provide the name, address, email address, and phone number of primary permittee.
EC-SERIES	Y	5 Note total and disturbed acreage of the project or phase under construction.
EC-SERIES	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
ALL	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
EN-01-EN-02	Y	8 Description of the nature of construction activity.
ED-01	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
EN-01	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
EN-01	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
EN-01	Y	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *
EN-01	Y	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.8.c.(3) page 37 of the permit as applicable. *
EN-02	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation," in accordance with Part IV.A.5 page 26 of the permit. *
EN-01	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
EC-SERIES	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
EN-01	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
EN-02	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *

EN-01	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
EN-01	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
EN-01	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment must comply with Part III, C. of the permit. Include the completed Appendix 1 listing at the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
EC-SERIES	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
ED-01	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
EN-01	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
EN-02	Y	27 Description of practices to provide cover for building materials and building products on site. *
EN-01-EN-02	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
EN-01-EN-02	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
EN-01-EN-02	Y	30 Provide complete requirements of inspections and record keeping by the primary permittee. *
EN-01-EN-02	Y	31 Provide complete requirements of sampling frequency and reporting of sampling results. *
EN-01	Y	32 Provide complete details for retention of records as per Part IV.F. of the permit. *
EN-01-EN-02	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
ED-01	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
ED-01	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
EN-01	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
ALL	Y	37 Graphic scale and North arrow.
EC-SERIES	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours USGS 1":2000' Topographical Sheets Proposed Contours 1":400' Centerline Profile

N/A	N	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
N/A	N	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
N/A	N	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
N/A	N	42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
ED-01	Y	43 Delineation and acreage of contributing drainage basins on the project site.
ED-01	Y	44 Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets.
ED-01	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
N/A	N	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/delineate all storm water discharge points.
EC-SERIES	Y	47 Soil series for the project site and their delineation.
EC-SERIES	Y	48 The limits of disturbance for each phase of construction.
ED-01	N	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
EC-SERIES	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
ED-02	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
EC-SERIES	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.
ED-02	Y	53 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
EC-SERIES	Y	54 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2020

SEDIMENT BASIN EXEMPTION NOTE:

DUE TO THE TYPE OF DEVELOPMENT PROPOSED IN THIS PROJECT AND THE SITE CONDITIONS UPON WHICH THE DEVELOPMENT WILL BE BUILT, NO SEDIMENT STORAGE STRUCTURES ARE PROPOSED. GIVEN THE MINIMAL DISTURBANCE NECESSARY TO CONSTRUCT THE TRAIL, THE ADJACENT PROPERTIES AND ENVIRONMENT WOULD BE NEGATIVELY AFFECTED (ADDITIONAL CLEARING, GRADING, AND OTHER LAND DISTURBING ACTIVITIES) BY THE INSTALLATION OF SEDIMENT STORAGE STRUCTURES FOR A NEGLIGIBLE BENEFIT. PERIMETER CONTROL, INLET SEDIMENT TRAPS, AND CHECK DAMS ARE UTILIZED THROUGHOUT THE SITE IN AN EFFORT TO CONTROL EROSION. THE MEASURES SHOWN IN THIS PLAN SHOULD BE SUFFICIENT TO MANAGE EROSION, SEDIMENTATION, AND POLLUTION CONTROL WITHIN THE PROJECT SITE. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

SOIL SERIES INTERPRETATIONS

MAP SYMBOL	SOIL SERIES	ESTIMATED SOIL PROPERTIES					LIMITATION OF SOILS FOR URBAN USES										
		PERMEABILITY (In/Hrs.)	REACTION (pH)	SHRINK-SWELL POTENTIAL	CORROSIVITY	DEPTH TO:	STEEL	CONCRETE	WATER TABLE (Ft.)	BEDROCK (In.)	FLOOD FREQUENCY	HYDRO-GROUP	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOON AREAS	SHALLOW EXCAVATIONS	DWELLINGS #w/o basement	SMALL COMMERCIAL BUILDINGS
CuC, CuE	CECIL	0.6-0.2	4.5-5.5	Low	Mod.	Mod.	>6.0	>60	None	B	0-8%:M.p.k 8-15%:M.p.s 15+%:S.s	0-2%:M.p 2-7%:M.p.p 7+%:S.s	0-8%:M.p 8-15%:M.c.l.s 15+%:S.s	0-8%:L 8-15%:M.s 15+%:S.s	0-4%:L 4-18%:M.s 8+%:S.s	0-8%:M.b 0-15%:M.b.s 15+%:S.s	0-8%:M.b 0-15%:M.b.s 15+%:S.s
RK	RIVERVIEW	0.6-2.0	4.5-5.5	Low	Low	Mod.	3.0-5.0	>60	Occ Freq	B	S.f,w	S.f,p,w	S.o.c	S.f	S.f	S.f	

SAMPLING INFORMATION

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

* NTU LIMIT TAKEN FROM GENERAL PERMIT GAR100002

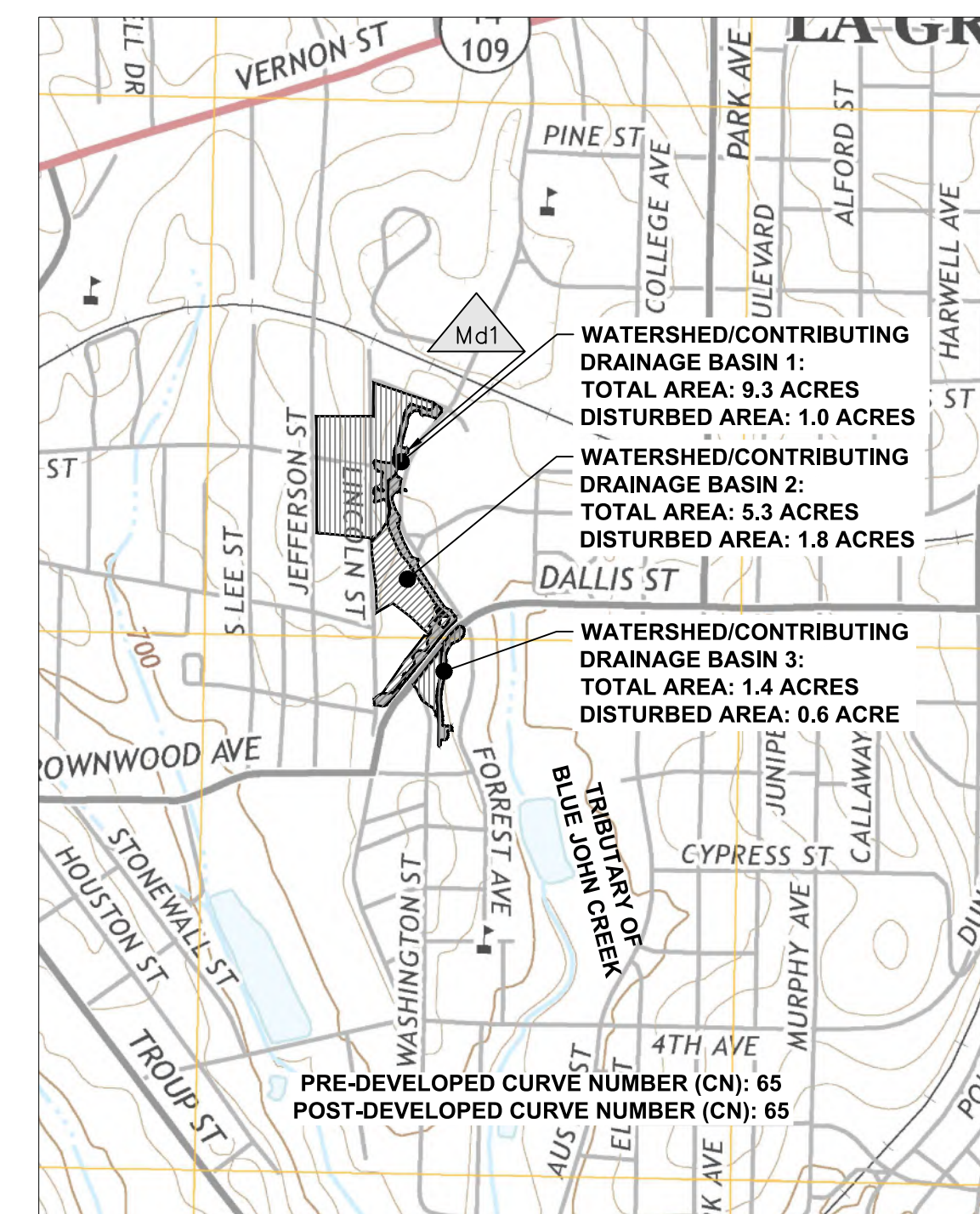
SAMPLES TO BE TAKEN BY "GRAB SAMPLES" OR OTHER APPROVED METHOD. SAMPLES TO BE ANALYZED BY HACH OR OTHER APPROVED METHOD.

**SEE DRAINAGE/CONTRIBUTING DRAINAGE BASIN MAP, THIS SHEET, FOR MONITORING SITE LOCATIONS. SHOULD THE SAMPLING PROFESSIONAL BELIEVE THE SAMPLING RESULTS ARE NOT REPRESENTATIVE OF THE SITE AND THAT OFFSITE DEVELOPMENTS ARE CONTRIBUTING TO AN INCREASE IN THE NTU LEVEL THE SAMPLING PROFESSIONAL SHALL CONTACT THE EROSION CONTROL DESIGN ENGINEER FOR NEW SAMPLING LOCATIONS.

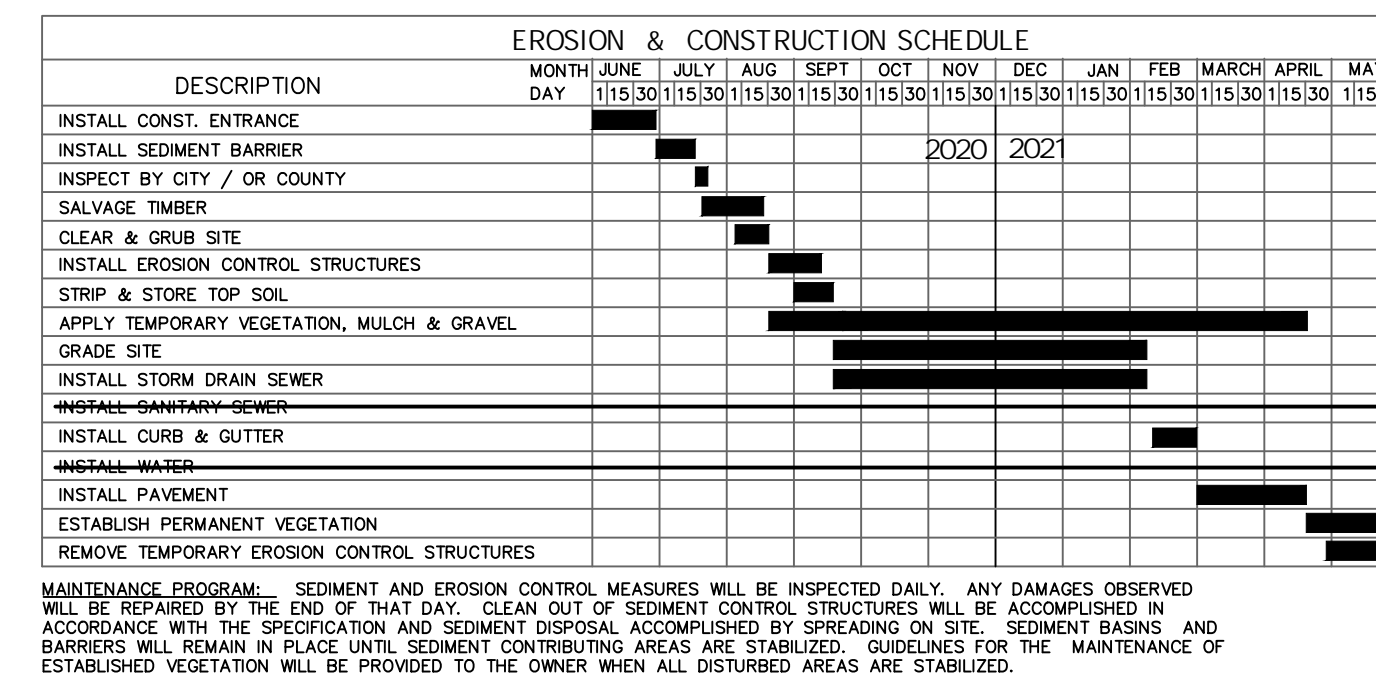
**MONITORING LOCATION Md1 IS REPRESENTATIVE OF CONTRIBUTING DRAINAGE BASINS 2 & 3

SEDIMENT STORAGE TABLE

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



DRAINAGE/CONTRIBUTING DRAINAGE BASIN MAP
SCALE: 1" = 1000'

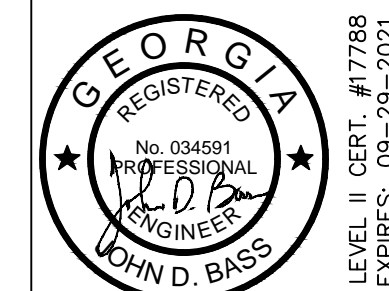


MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATION AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON SITE. SEDIMENT BASINS AND BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

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

PROJECT #	2019 - 196
PROJECT MANAGER	NS

**LaGRANGE THREAD PHASE 8 -
PANTHER PARK TRAIL
LaGRANGE, GA**



EROSION CONTROL DATA

SCALE	N.T.S.
DATE	MAY 8, 2020

SHEET # **ED-01**

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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. PREVENTING WATERING OF EXCAVATION AND FILL AREAS.
D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES.
6. THIS SITE TO BE DEVELOPED INTO LANDSCAPE PARK CONSISTING OF A CONCRETE MULTI-USE TRAIL WITH LANDSCAPING. THE TOTAL SITE AREA: 1.82 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL), THE TOTAL DISTURBED AREA: 3.4 ACRES.
7. PERIMETER SEDIMENT CONTROL STRUCTURES ARE SHOWN TO MINIMIZE EROSION & SEDIMENTATION

CLEARING PHASE - PHASE 1 EROSION CONTROL NOTES:

PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
A COPY OF THE EROSION SEDIMENT & POLLUTION CONTROL PLANS SHALL BE PRESENT ON THE SITE AT ALL TIMES.
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL BE DEMARCATED FOR THE IDENTIFICATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR 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 GEOTEXTILE UNDERLAYER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.
2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
3. 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.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP COPY 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 THAT ARE REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

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 (MANUAL) PUBLISHED BY THE GEORGIA 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 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 REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

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

John D. Bass, PE, GA No. 34591 DATE MAY 8, 2020
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #17788

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 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.

THE CONTRACTOR CAN UTILIZE CLEARING TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

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

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

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

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

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

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

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

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

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE EROSION CONTROL PLANS.

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

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.

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 PLANS. THE CONTRACTOR SHALL MAINTAIN THE REQUIRED POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 3/8 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.

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 I.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 CONSTRUCTION ACTIVITIES), EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3.;
B. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND 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 I.C.3.;
C. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT RESULT IN LAND DISTURBANCE OF LESS THAN FIVE (5) ACRES AND CONSIST SOLELY OF ROUTINE MAINTENANCE FOR THE ORIGINAL PURPOSE OF THE FACILITY THAT IS PERFORMED TO MAINTAIN THE ORIGINAL LINE AND CAPACITY, AND THE PRACTICES, AS APPLICABLE, THE PERMITTEE SHALL, AS A MINIMUM, IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE MANUAL FOR EROSION AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY IS BEING CONDUCTED, IN ORDER TO BE ELIGIBLE FOR THIS EXEMPTION THE PROJECT MUST COMPLY WITH THE FOLLOWING CONDITIONS: (1) NO MASS GRADING SHALL OCCUR ON THE PROJECT, (2) THE PROJECT SHALL BE STABILIZED BY THE END OF EACH DAY OF 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, AND WHICH CONSIST SOLELY OF ROUTINE MAINTENANCE FOR THE ORIGINAL PURPOSE OF THE FACILITY THAT IS PERFORMED TO MAINTAIN THE ORIGINAL LINE AND CAPACITY, AS APPLICABLE, THE CONSTRUCTION ACTIVITY SHOULD, AT A MINIMUM, IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT 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 I.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 SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;
B. THE STORM WATER DISCHARGE FROM THE INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT; AND
C. STORM WATER DISCHARGES FROM INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH DIFFERENT NPDES LIMITATIONS.

3. LIMITATIONS ON COVERAGE (GAR 100002 PART I.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 UNDERGOING A STABILIZATION PERIOD;
B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2. OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORM WATER DISCHARGES) OF THIS PERMIT;
C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING PERMIT UNDER THIS PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR THE DISCHARGE;
D. STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

4. COMPLIANCE WITH WATER QUALITY STANDARDS (GAR 100002 PART I.C.4)

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

SAMPLING REQUIREMENTS (GAR 100002 PART IV.D.6)

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

- a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE INFRASTRUCTURE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE NON-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

b. SAMPLE TYPE.

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHOD 8150 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 833-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLE. THE PERMITTEE SHALL BE RESPONSIBLE FOR LABELING THE CONTAINERS. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(2) 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.
(3) MANUAL, AUTOMATIC OR RISING STAKE SAMPLING MAY BE UTILIZED, SALES 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 ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
(4) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS SHOULD BE CONDUCTED AT THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. SAMPLING POINTS.
(1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES, OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- (a) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. ADDITIONAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
(b) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
(c) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
(d) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
(e) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
(f) PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED WITH A PERMANENT VEGETATION WITH A DENSITY OF ONE (1) OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED FOR PERMANENT STABILIZATION OF PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A SEED OR ANNUAL VEGETATION AND A SEED OR ANNUAL VEGETATION PERENNIALS APPROPRIATE FOR THE REGION. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.

(h) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4, WHICHEVER IS APPLICABLE.

d. SAMPLING FREQUENCY.
(1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW FOR A QUALIFYING EVENT. SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
(a) THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE RECEIVING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR
(b) THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.
(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
(a) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;
(b) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION WHICHEVER COMES FIRST;
(c) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN 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 TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT MONITORING DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; AND
(d) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE SHALL CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

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Table with 2 columns: DATE, DESCRIPTION. Rows include 03/17/2020 50% REVIEW, 04/21/2020 90% REVIEW, 05/08/2020 100% ISSUE FOR PERMIT.

Table with 2 columns: PROJECT #, 2019 - 196; PROJECT MANAGER, NS.

LaGRANGE THREAD PHASE 8 - PANTHER PARK TRAIL LaGRANGE, GA

Professional Engineer Seal for John D. Bass, No. 02859, State of Georgia, License No. 17788, Expires 09-29-2021.

EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES

Table with 2 columns: SCALE, N.T.S.; DATE, MAY 8, 2020.

SHEET # EN-01

