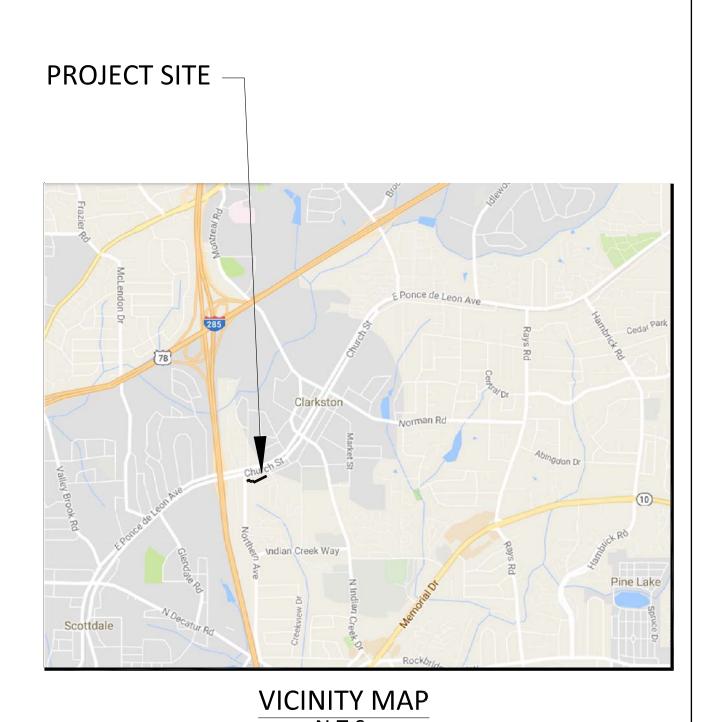
3648-3711 CHURCH STREET, CLARKSTON, GEORGIA 30021 EXHIBIT I



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 59 AND 60 IN DISTRICT 18.
THE SITE IS ON CITY EASEMENTS AND CITY PROPERTY.
THIS PROJECT WILL NOT REQUIRE ANY ZONING BUFFERS. THIS IS A TRAIL PROJECT WHICH IS BEING BUILT ON CITY PROPERTY - THEREFORE THE PROPOSED USE OF THE PROJECT IS CONSISTENT WITH ZONING. THE LIMITS OF DISTURBANCE IS APPROXIMATELY 0.49 ACRES.

NARRATIVE

THIS SITE IS A LINEAR CORRIDOR BEGINNING AT THE INTERSECTION OF CHURCH STREET AND MELL AVENUE, ALIGNING THROUGH CITY OWNED PROPERTY AND RIGHT-OF-WAY TO THE INTERSECTION OF LOVEJOY STREET AT ROWLAND STREET

THE PROJECT LENGTH IS APPROXIMATELY 831 LF WITH A 10'-11' WIDE CONCRETE TRAIL AND TRAIL AMENITIES. ADDITIONAL WORK ASSOCIATED WITH THE PROJECTINCLUDES MINOR DEMOLITION AND CLEARING, EROSION CONTROL, GRADING, STORM DRAINAGE, SIGNAGE AND STRIPING.

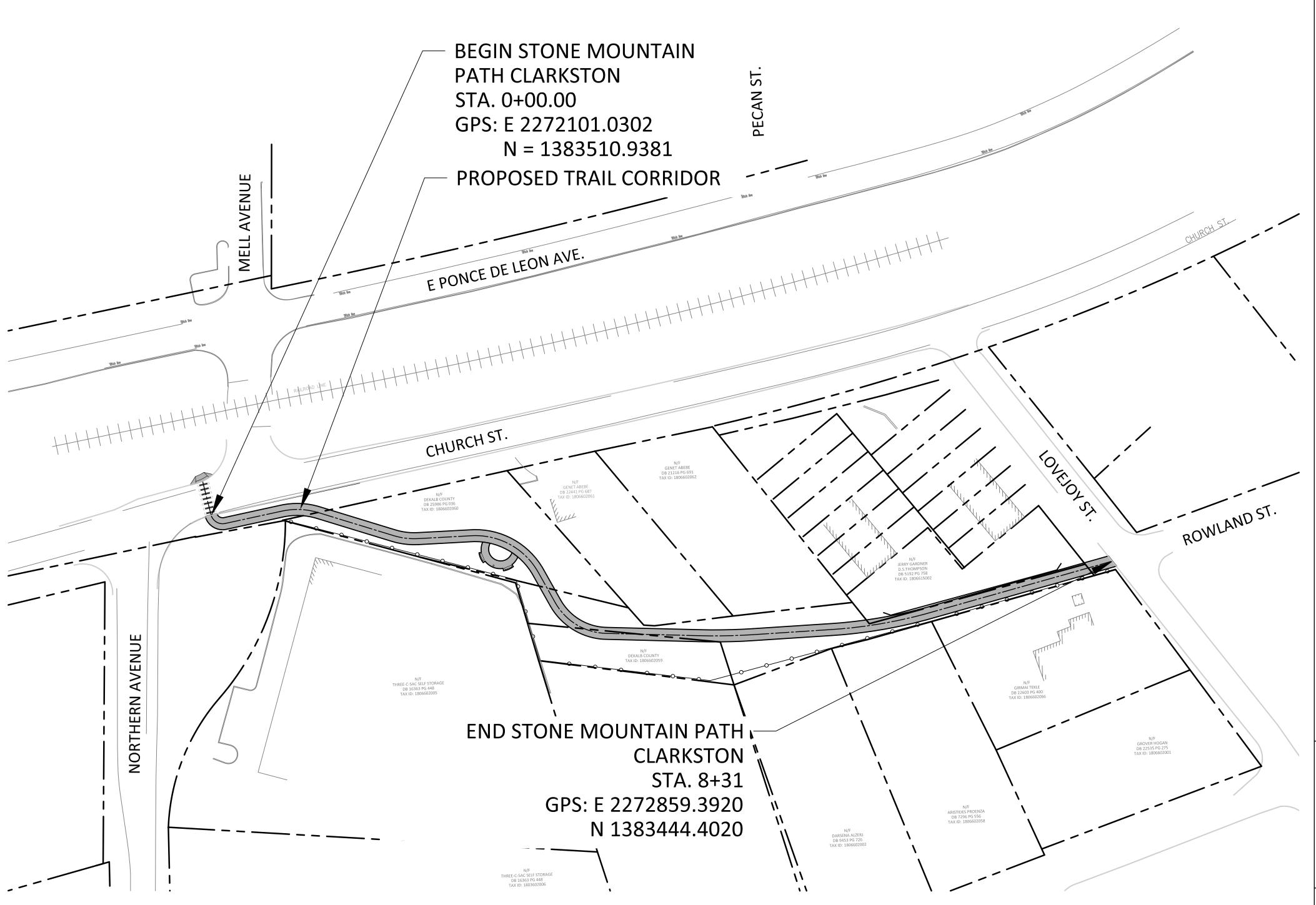
OWNER CITY OF CLARKSTON 1055 ROWLAND STREET CLARKSTON, GEORGIA 30021 CONTACT: KEITH BARKER, CITY MANAGER 404-296-6489

CONSTRUCTION MANAGEMENT

PATH FOUNDATION

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

cell 404-433-1900



INDEX OF SHEETS

GENERAL

COVER SHEET (THIS SHEET) GN-01 GENERAL NOTES

TRAIL EASEMENT

TYPICAL SECTION TS-01 TYPICAL SECTION

CONSTRUCTION PLANS

CP-01 CONSTRUCTION PLAN

CONSTRUCTION DETAILS **CD-01 CONSTRUCTION DETAILS**

CD-02 CONSTRUCTION DETAILS

CIVIL AND EROSION CONTROL

ECD-03 CONSTRUCTION DETAILS

ECD-05 CONSTRUCTION DETAILS

PLANS PREPARED BY:

KAIZENCOLLABORATIVE

2390 Main Street | Tucker, GA 30084 | 404.239.2521

RUSSELL DAVIS & ASSOCIATES, INC. CIVIL ENGINEERING DESIGN



3469 Lawrenceville Highway, Suite 309 Tucker, Georgia 30084 (678) 935-2200



ENGINEER'S CERTIFICATION STATEMENT:

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY:

NO FIELD RUN SURVEY WAS CONDUCTED FOR THIS PARTICULAR SITE

TRANSYSTEMS., (678)244-9733, AND BOUNDARY ZONE, INC., (404)446-8180.

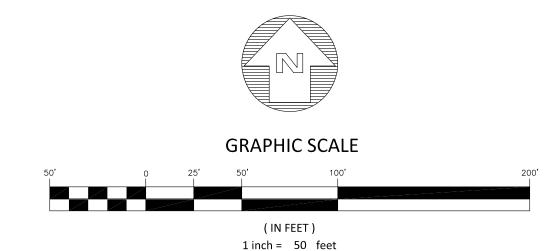
With my initials at the line above and my seal and signature below, I Greta G. deMayo, a professional Engineer, Architect or Landscape Architect licensed in the State of Georgia, hereby certify that I have personally reviewed the attached submittal plans for a land disturbance permit. In my opinion these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

Georgia Registration # NO. 1051

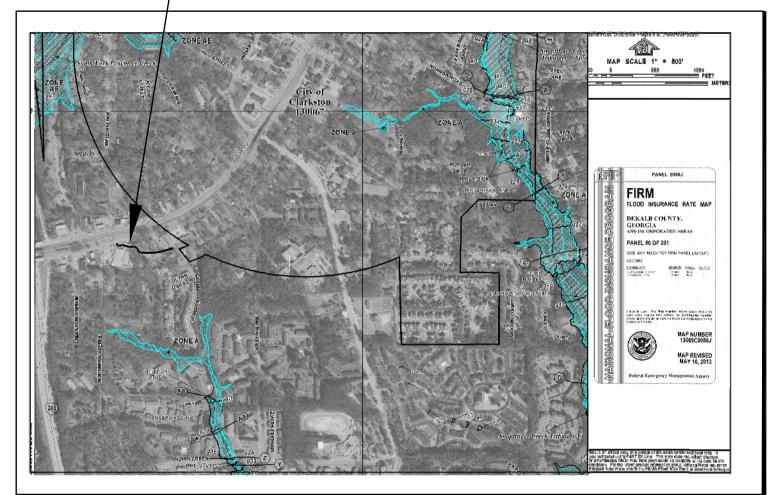
Date: August 1, 2017

TRAIL LENGTH 831LF GROSS LENGTH OF PROJECT 831 LF

TOTAL SITE AREA = 3.8 ACRES DISTURBED AREA = 0.49 ACRES



PROJECT SITE



THE PROJECT IS NOT WITHIN THE FEMA 100 YEAR FLOOD HAZARD ZONE.

SITE DATA

TOTAL SITE AREA = 3.8 ACRES DISTURBED AREA = 0.49 ACRES NPDES FEE = 0.49 ACRES X 86.00 (NO FEE IF UNDER 1 ACRE)

LAND LOT: 59, 60 of the 18th District

CONTACTS

PATH FOUNDATION

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

EXP. 08/21/2018

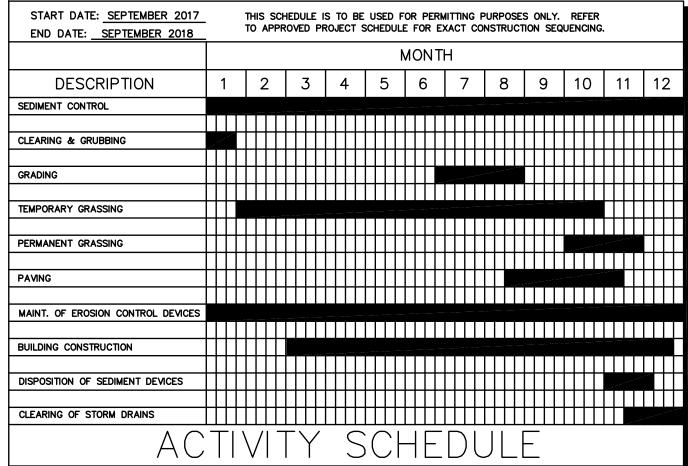
office 404-875-7284 x5

cell 404-433-1900

EROSION & SEDIMENT CONTROL

- L. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBANCE ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ON-SITE INSPECTOR.
- 5. EROSION AND SEDIMENT MEASURES AND PRACTICES TO BE INSPECTED DAILY.
- 6. ALL INSPECTION, MONITORING, AND REPORTING SHALL BE PERFORMED AS REQUIRED BY NPDES PERMIT AND BY PROJECT EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES.

(SEE EROSION CONTROL SHEETS FOR EROSION CONTROL CONSTRUCTION SCHEDULE)



GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS SHOWN HEREON WITH THE ARCHITECTURAL DRAWINGS AND EXISTING BUILDINGS PRIOR TO ANY CONSTRUCTION AND SHALL PROMPTLY NOTIFY THE PROJECT LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- 2. PROPOSED CONTOURS AND SPOT ELEVATIONS REPRESENT FINAL GRADE. PROPOSED GRADE ELEVATIONS SHOWN WITHIN PAVED AREA REPRESENT TOP OF PAVEMENT ELEVATIONS. CONTRACTOR SHALL ALLOW FOR PAVEMENT THICKNESS, TOPSOIL, BASE COURSE, SLABS, ETC. WHEN GRADING TO SUBGRADE ELEVATIONS
- DIMENSIONS ARE TO FACE OF CURB, CENTER OF STRUCTURE AND CENTER LINE OF COLUMN LINE, UNLESS OTHERWISE NOTED. ANGLES SHOWN ON STORM AND SANITARY SEWER ARE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED.
- 4. **CALL BEFORE YOU DIG 811.** THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION. IF UNCHARTED UTILITIES ARE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IMMEDIATELY FOR INSTRUCTIONS. ANY DAMAGE OR INTERRUPTION OF EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY AT THE CONTRACTOR'S EXPENSE.
- 5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED DISTURBANCE SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE DRAWINGS WITHOUT APPROVAL IN WRITING FROM THE PROJECT LANDSCAPE ARCHITECT.
- 6. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES, LIGHTS, WARNING SIGNS, AND OTHER TRAFFIC CONTROL METHODS ADJACENT TO EXISTING ROADWAYS AND PARKING AREAS AS MAY BE REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRAFFIC CONTROL MEASURES UTILIZED WITHIN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL CONSTRUCTION ELEMENTS, WITH SOME FIELD ADJUSTMENTS AS NECESSARY BY THE PROJECT LANDSCAPE ARCHITECT. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT TRAIL AND AMENITY CONSTRUCTION COMPLIES WITH AASHTO REQUIREMENTS, PARTICULARLY WITH RESPECT TO TRAIL CROSS-SLOPES AND GRADIENTS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY AND PERMANENT GROUNDWATER CONTROL DURING CONSTRUCTION, AS WELL AS PROVISIONS FOR CONTROLLING SURFACE WATER RUN-OFF, IN ORDER TO PREVENT PONDING IN OPEN EXCAVATIONS AND POTENTIAL UNDERMINING OF PERMANENT CONSTRUCTION FEATURES.
- 9. EARTHWORK OPERATIONS AND SOIL COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND DRAWINGS. PRIOR TO POURING CONCRETE, EARTHWORK SHALL BE CLEAR OF DEBRIS AND MACHINE COMPACTED. CONSTRUCTION ACTIVITIES SHALL BE MONITORED BY A GEOTECHNICAL CONSULTING FIRM APPROVED BY THE OWNER TO VERIFY THAT EARTHWORK, WALL CONSTRUCTION, AND OTHER OPERATIONS CONFORM WITH THE CONTRACT DOCUMENTS. GEOTECHNICAL SERVICES SHALL BE AT THE COST OF THE CONTRACTOR.
- 10. THE TOPOGRAPHIC SURVEY INFORMATION HAS BEEN PROVIDED BY TRANSYSTEMS., (678)244-9733, AND BOUNDARY ZONE, INC., (404)446-8180, AND IS REFERENCED TO THE GEORGIA STATE PLANE COORDINATE SYSTEM (WEST ZONE). NO FIELD RUN SURVEY WAS CONDUCTED FOR THIS PARTICULAR SITE.
- 11. DEMOLITION DEBRIS SHALL BECOME PROPERTY OF THE CONTRACTOR AND WASTE SOILS, VEGETATION, AND OTHER DELETERIOUS MATERIALS SHALL BE HAULED OFF-SITE AND BE DISPOSED OF AT AN APPROVED LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BURNING WILL NOT BE ALLOWED ON THIS PROJECT.
- 12. EROSION CONTROL MEASURES AND OTHER SITE ISSUES SHALL BE INSPECTED REGULARLY BY CONTRACTOR.
- 13. ON ALL AREAS WHERE ROADWAYS, CONCRETE TRAILS, RETAINING WALLS, OR OTHER STRUCTURES ARE TO BE CONSTRUCTED ON COMPACTED SUBGRADE, FOUNDATION SOILS SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL CONSULTING FIRM PRIOR TO THE PLACEMENT OF CONCRETE, AGGREGATE BASE, OR FILL MATERIALS.
- 14. CONSTRUCTION ACCESS POINTS ARE APPROXIMATE LOCATIONS AND MUST BE FIELD VERIFIED AND APPROVED BY PROJECT MANAGER.
- 15. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION OF GEORGIA, 2016 EDITION, AND AS MODIFIED BY CONTRACT DOCUMENTS.
- 16. ALL CONCRETE TO BE USED FOR THE CONSTRUCTION OF TRAILS TO BE CLASS 'A' CONCRETE.
- 17. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH PATH FOUNDATION, KAIZEN COLLABORATIVE AND CITY OF CLARKSTON PRIOR TO BEGINNING CONSTRUCTION.
- 18. CONTRACTOR TO CONTACT KAIZEN COLLABORATIVE FOR ALL CONSTRUCTION STAKING CAD DATA
- 19. CITY TO ISSUE A LAND DISTURBANCE PERMIT UPON APPROVAL OF THE DESIGN PLANS.
- 20. CITY POINT OF CONTACT IS LARRY KAISER; 404-909-5619; KAISER@CO-INFRA-SERVICES.COM
- 21. CONSTRUCTION ZONE TRAFFIC CONTROL SIGNAGE PLAN REQUIRED. CONTRACTOR TO COORDINATE WITH CITY OF CLARKSTON TRANSPORTATION / ENGINEERING PRIOR TO CONSTRUCTION.

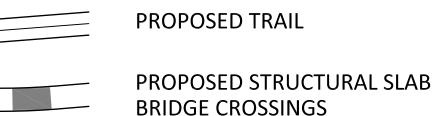
TRAIL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING MINIMUM SLOPES ALONG THE TRAIL. THE SLOPES SHALL NOT EXCEED 5% PERCENT, UNLESS SPECIFICALLY NOTED.
- 2. THE LAYOUT OF THE TRAIL IS SHOWN IN RELATION TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LAYOUT WITH OWNER PRIOR TO CONSTRUCTION OF TRAIL.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING OR ALL UNDERSTORY VEGETATION WITHIN 10' FROM CENTERLINE OF TRAIL. CLEARING AREA MAY INCREASE WHERE INVASIVE PLANTS ARE LOCATED.
- 4. ALL SIGNING & MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- ALL SIGNS TO BE FABRICATED USING DIRECT PRINTING PROCESS. ALL SIGN PANELS TO HAVE BLACK BACKS.

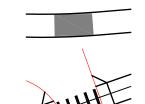
CONSTRUCTION NOTES

- TRAIL BACKFILL DIRT SHALL BE CLEAN, COHESIVE CLAY OR SANDY CLAY FREE OF DEBRIS, ORGANICS, DELETERIOUS MATERIAL AND ROCKS GREATER THAN 1" DIAMETER.
- 2. MAX CUT OR FILL SLOPES SHALL BE 3:1 (H:V), UNLESS SPECIFICALLY NOTED.
- EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN. TREE SAVE AREAS SHALL NOT BE USED FOR STORAGE OR PARKING. EQUIPMENT AND MATERIAL SHALL NOT BE STORED WITHIN THE DRIP LINE OF TREES.
- CONTRACTOR TO VERIFY THE ELEVATIONS OF ALL TIE-IN POINTS FOR INSTALLATION OF UTILITIES, CURB & GUTTER AND PAVING.
- TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE OPTIMUM COMPACTION FOR ANY SOIL CLASSIFICATION AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-180 METHOD "A". BACKFILL MATERIAL SHALL BE CLEAN AND FREE OF ROOTS, ROCK OR DELETERIOUS MATTER. CONTRACTOR SHALL CORRECT ANY DAMAGE TO CURBING OR PAVING CAUSED BY TRENCH SETTLEMENT WHICH OCCURS WITHIN 12 MONTHS OF PROJECT ACCEPTANCE.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PROMPTLY UPON DISCOVERY.
- ALL EXISTING ELECTRICAL BOXES, WATER METER BOXES, AND VALVE BOXES, WHICH ARE TO REMAIN SHALL BE SET FLUSH WITH THE TOP OF THE PROPOSED GRADE.
- 8. AREAS INTENDED TO SUPPORT PAVEMENT OR NEW FILL SHALL BE PROOF ROLLED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER TO LOCATE WEAK, SOFT OR EXCESSIVELY WET MATERIALS. AREAS WHICH PUMP WHILE PROOF ROLLED SHALL BE UNDERCUT AND BACK-FILLED.
- 9. CRUSHED STONE AGGREGATE IN PAVEMENT BASE SHALL CONFORM WITH SECTION 815 OF THE STATE OF GEORGIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS. ALL ASPHALT MATERIAL AND PAVING OPERATIONS SHALL MEET APPLICABLE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION.
- 10. ALL FILL AREAS MUST BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR. A REPORT FROM A GEOTECHNICAL ENGINEER MAY BE REQUIRED BY THE CONSTRUCTION INSPECTOR FOR ALL FILL AREAS WITHIN THE RIGHT-OF-WAY.
- 11. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS DISTURBED AREA AND INTO DRAINAGE FEATURES.

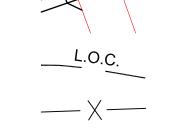
CONSTRUCTION LEGEND



PROPOSED TRAIL



PROPOSED CROSSWALK



LIMITS OF CONSTRUCTION PROPOSED FENCELINE

EXISTING FENCELINE



PROPOSED DEMOLITION EXISTING CONTOUR ELEVATION



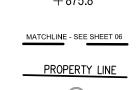
PROPOSED CONTOUR ELEVATION



0 0 0

PIPE AND CULVERT STEEL BOLLARDS

EXISTING DIRT ROAD



SPOT ELEVATION SHEET MATCHLINE

LAND LOT LINE

PROPERTY LINE

			LEGEND		
_	1033 CATCH BASIN 1034 CATCH BASIN	w∨ ⊠ ev	WATER VALVE	—SF—	SILT FENCE
	1019A DROP INLET	\bowtie	GAS VALVE	—тр—	TREE PROTECTION FENC
©	1011A JUNCTION BOX	ě,	HANDICAPPED PARKING	→	CHAIN LINK FENCE
	1019A TYPE E CURB INLET	—UGP—	TRAFFIC FLOW UNDERGROUND POWER	-xx-	EXISTING FENCE
D	1125 HEADWALL DRAINAGE SLOPE	—Р—	OVERHEAD POWER	—100—	EXISTING CONTOUR
S	SEWER MANHOLE	—UGC—	UNDERGROUND CABLE OVERHEAD TELEPHONE	 100	PROPOSED CONTOUR
_	EXISTING FIRE HYDRANT	—FOC—	FIBER OPTIC CABLE		EXISTING CURB & GUTTE
×	PROPOSED FIRE HYDRANT	—w— —ss—	WATER SANITARY SEWER		PROPOSED CURB & GUT
\(\delta\)	LAMP POST	— FM —	FORCE MAIN	X 1010	EXISTING SPOT ELEVATION
•	GUY POLE	<u> </u>	GAS STORM DRAIN	⊗ 1010	PROPOSED SPOT ELEVA

\Box

REVISION	DATE	DESCRIPTION
1	2017-08-14	CITY COMMENTS
		L
1/ A 17 E N E	DO IFOT #	2046 404
	ROJECT#	2016-104
PROJECT	MANAGER	GGD
e T	ONE N	MOUNTAIN PATH
ان 		RKSTON, GA

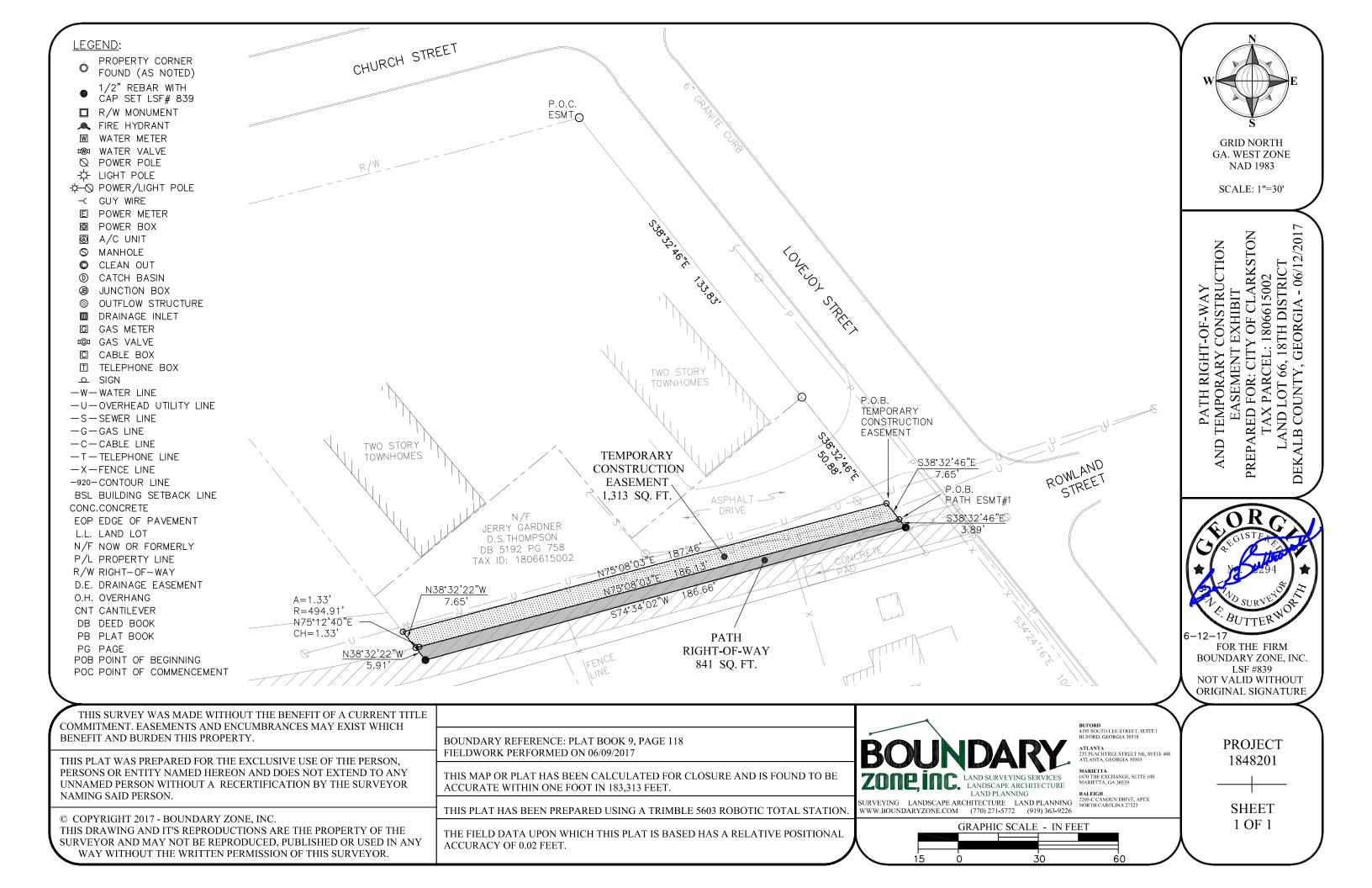
GENERAL NOTES

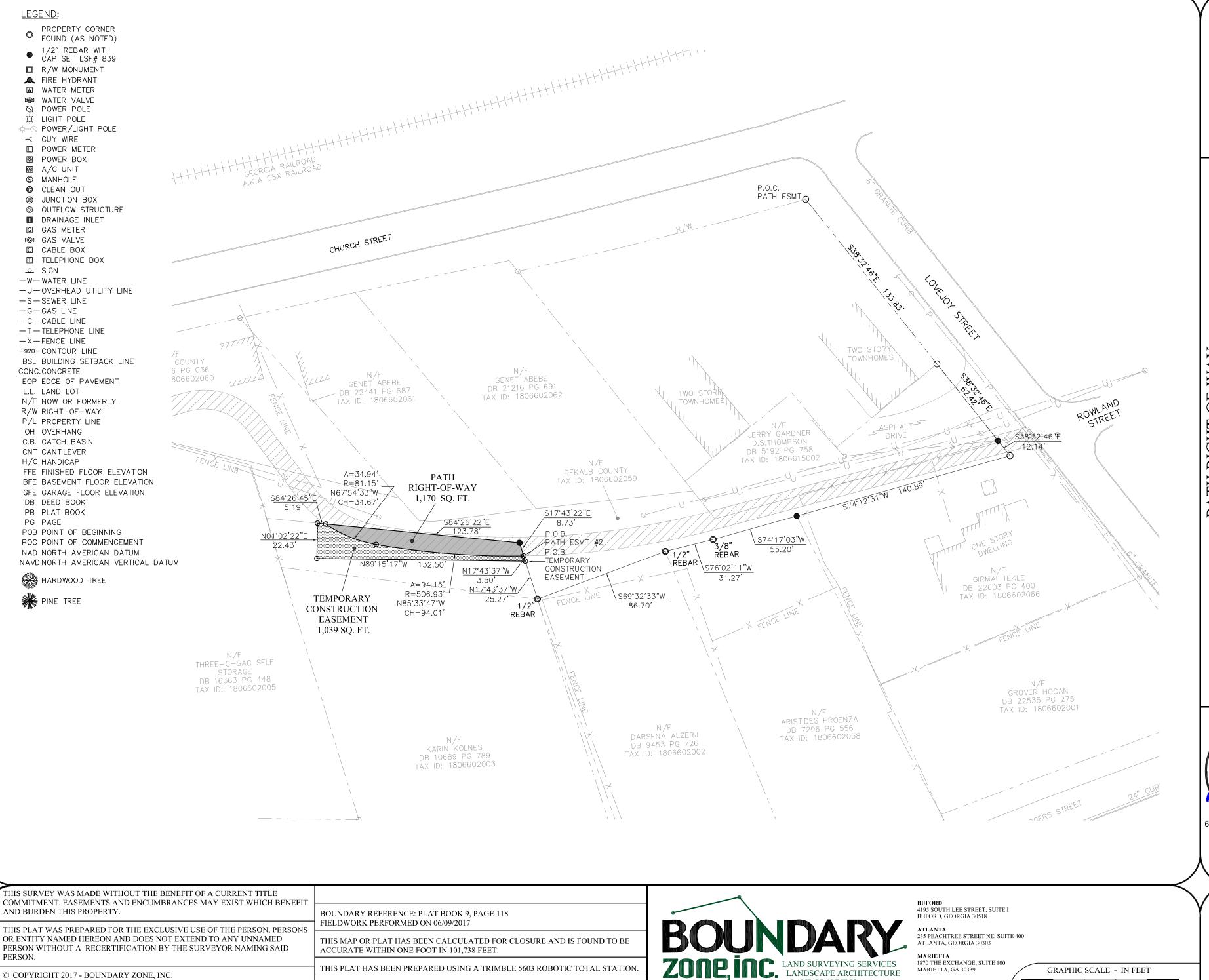
GN-01

DATE: | AUG 1, 2017

SHEET NAME:







THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A RELATIVE POSITIONAL

ACCURACY OF 0.02 FEET.

THIS DRAWING AND IT'S REPRODUCTIONS ARE THE PROPERTY OF THE

WITHOUT THE WRITTEN PERMISSION OF THIS SURVEYOR.

SURVEYOR AND MAY NOT BE REPRODUCED, PUBLISHED OR USED IN ANY WAY

GRID NORTH GA. WEST ZONE NAD 1983

SCALE: 1'' = 40'

- 06/12/2017

GEORGIA

DEKALB COUNTY,

EXHIBIT PATH RIGHT-OF-WAY Y CONSTRUCTION EASEMENT ED FOR: CITY OF CLARKSTON AX PARCEL: 1806602003 TAX PARCEL: 1806602003 AND LOT 66, 18TH DISTRICT LAND LOT 66, TEMPORARY C PREPARED AND

FOR THE FIRM

BOUNDARY ZONE, INC. LSF #839 NOT VALID WITHOUT ORIGINAL SIGNATURE

RALEIGH SURVEYING LANDSCAPE ARCHITECTURE LAND PLANNING 2205-C CANDUN DRIVE, APEX NORTH CAROLINA 27523

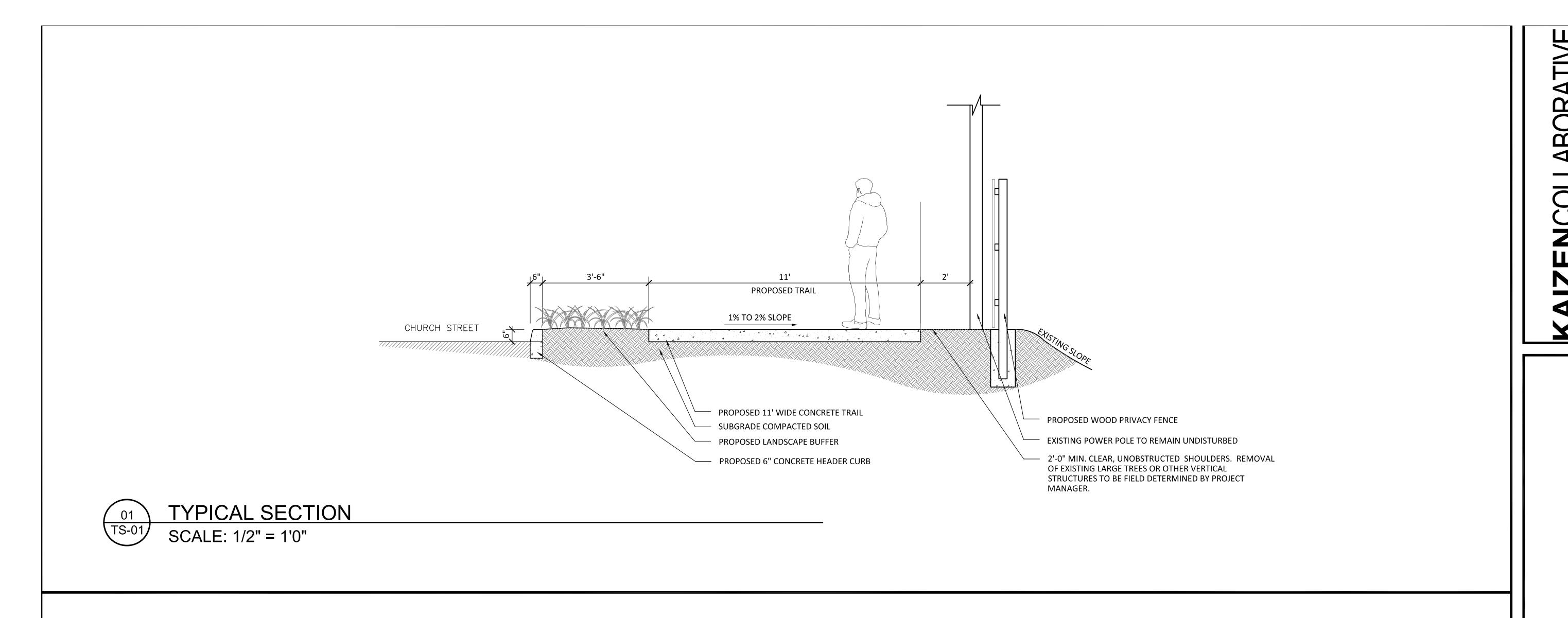
LAND PLANNING

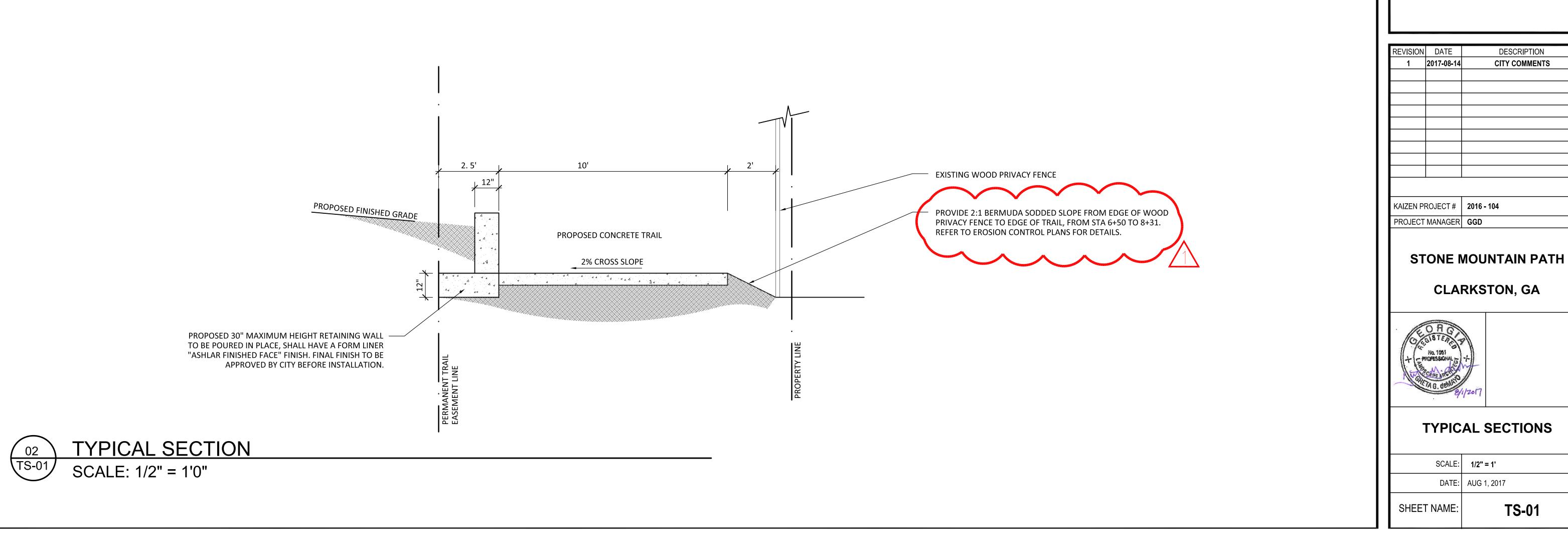
WWW.BOUNDARYZONE.COM (770) 271-5772 (919) 363-9226

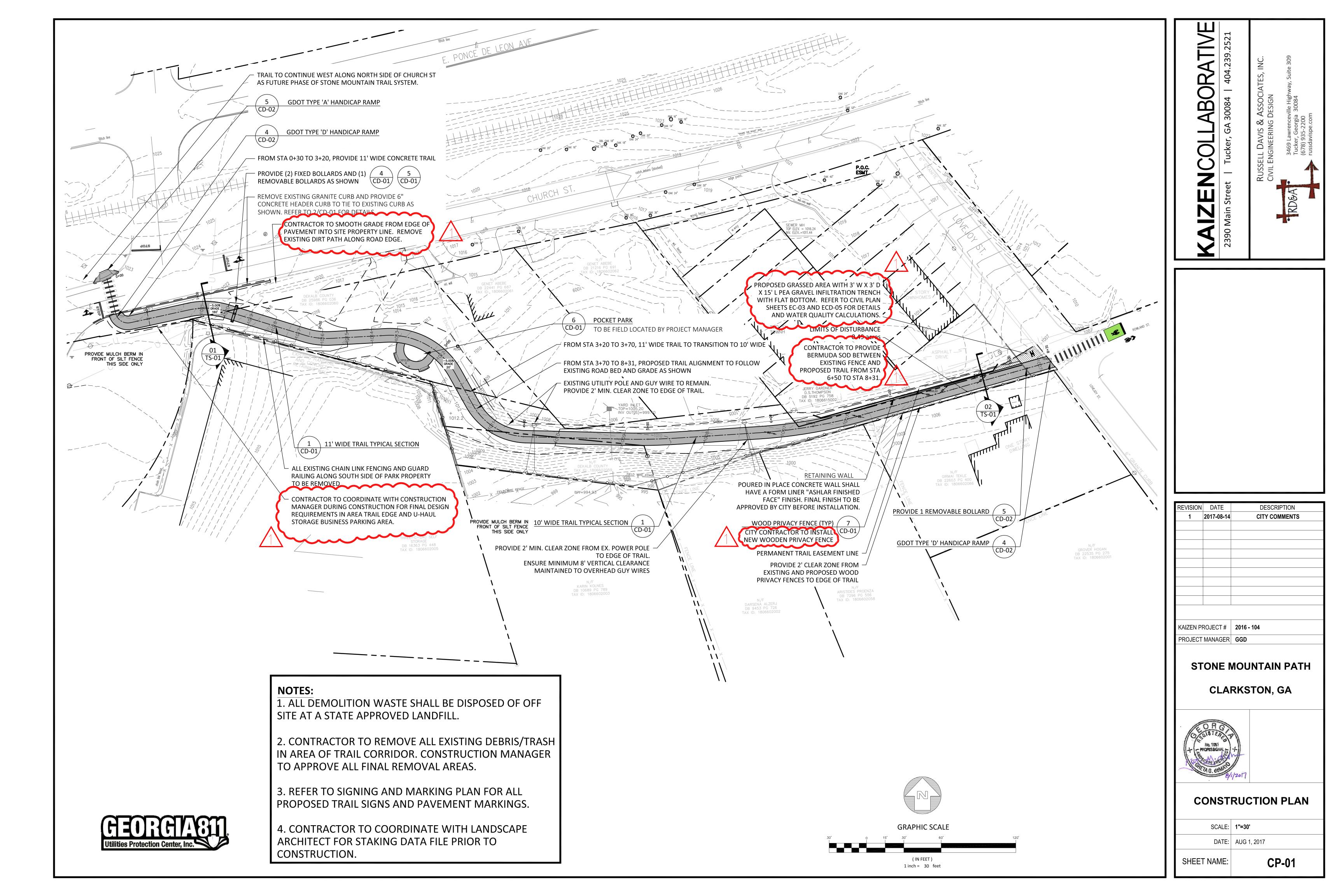
GRAPHIC SCALE - IN FEET

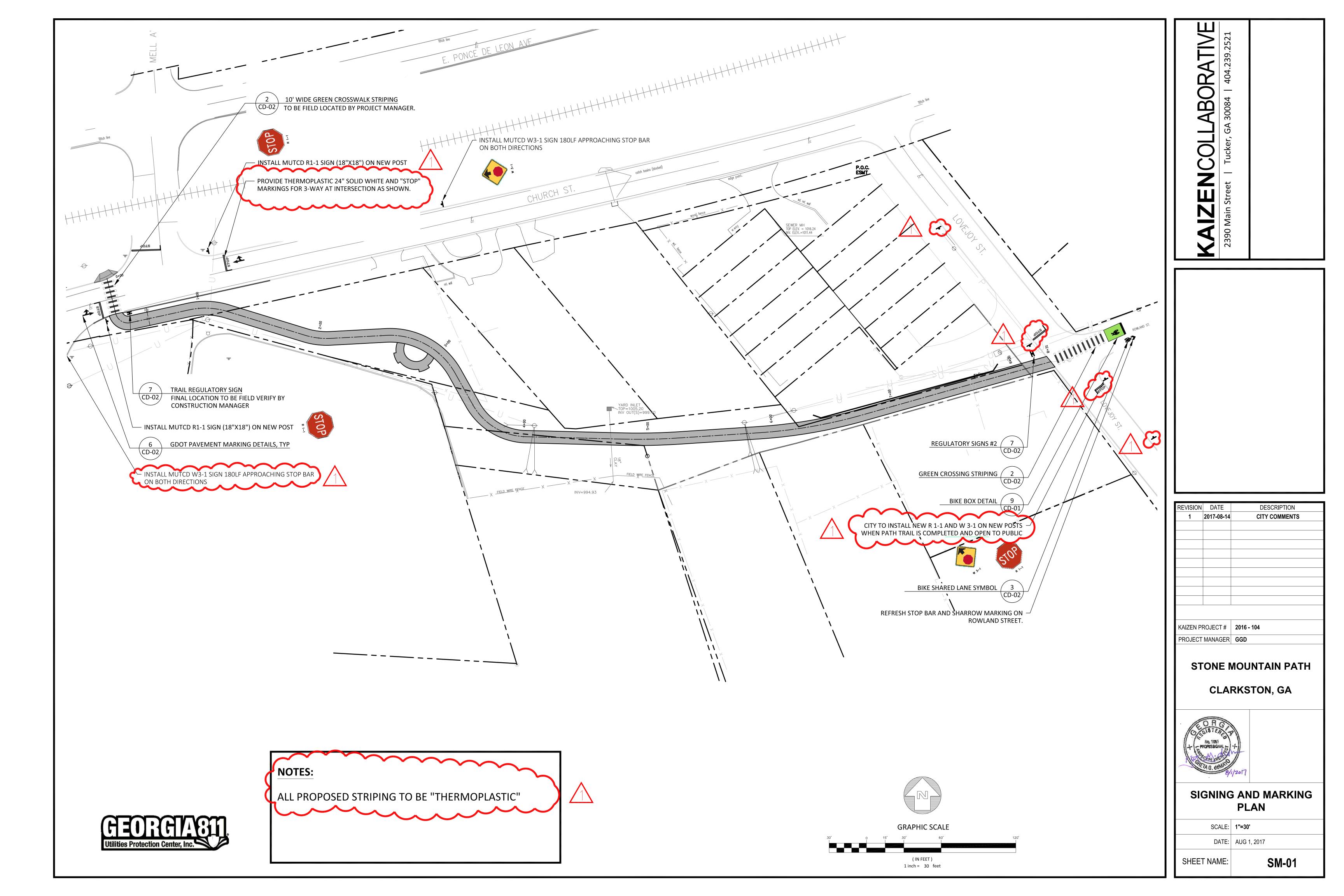
PROJECT 1848201

> **SHEET** 1 OF 1









STONE MOUNTAIN PATH - PHASE D - 1 OF 1 Mile 11.19 18.00 Elevation 1022 Stone Mountain PATH PC 4-1 **CHURCH STREET** STONE MOUNTAIN pathfoundation.org PC 2-6 PC 1-1

NO

MOTOR

VEHICLES

MOTORIZED WHEELCHAIRS ARE PERMITTED

R 5-3

Regulatory Sign #1 - Front

STA 0+00

Mile 11.19 km 18.00 Elevation 1022 Stone Mountain PC 4-1

Regulatory Sign #1 - Back STA 0+00



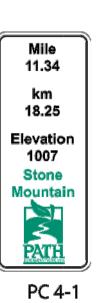
LOVEJOY STREET

PC 2-6

Mile 11.34 18.25

Elevation Mountain PC 4-1

Regulatory Sign #2 - Front STA 8+30





PC 1-1



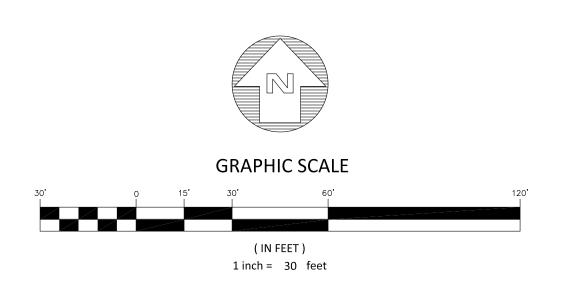
R 5-3

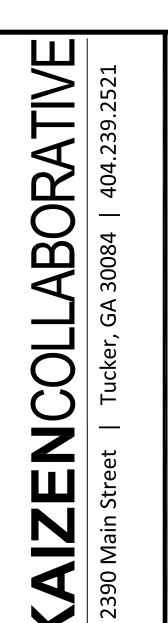
Regulatory Sign #2 - Back STA 8+30

Blank Space Left Intentionally

NOTES:

- 1. ALL SIGNS TO BE FABRICATED USING DIRECT PRINTING PROCESS.
- 2. ALL SIGN PANELS TO HAVE A BLACK BACK.





REVISION	DATE	DESCRIPTION
REVISION	DATE	DESCRIPTION

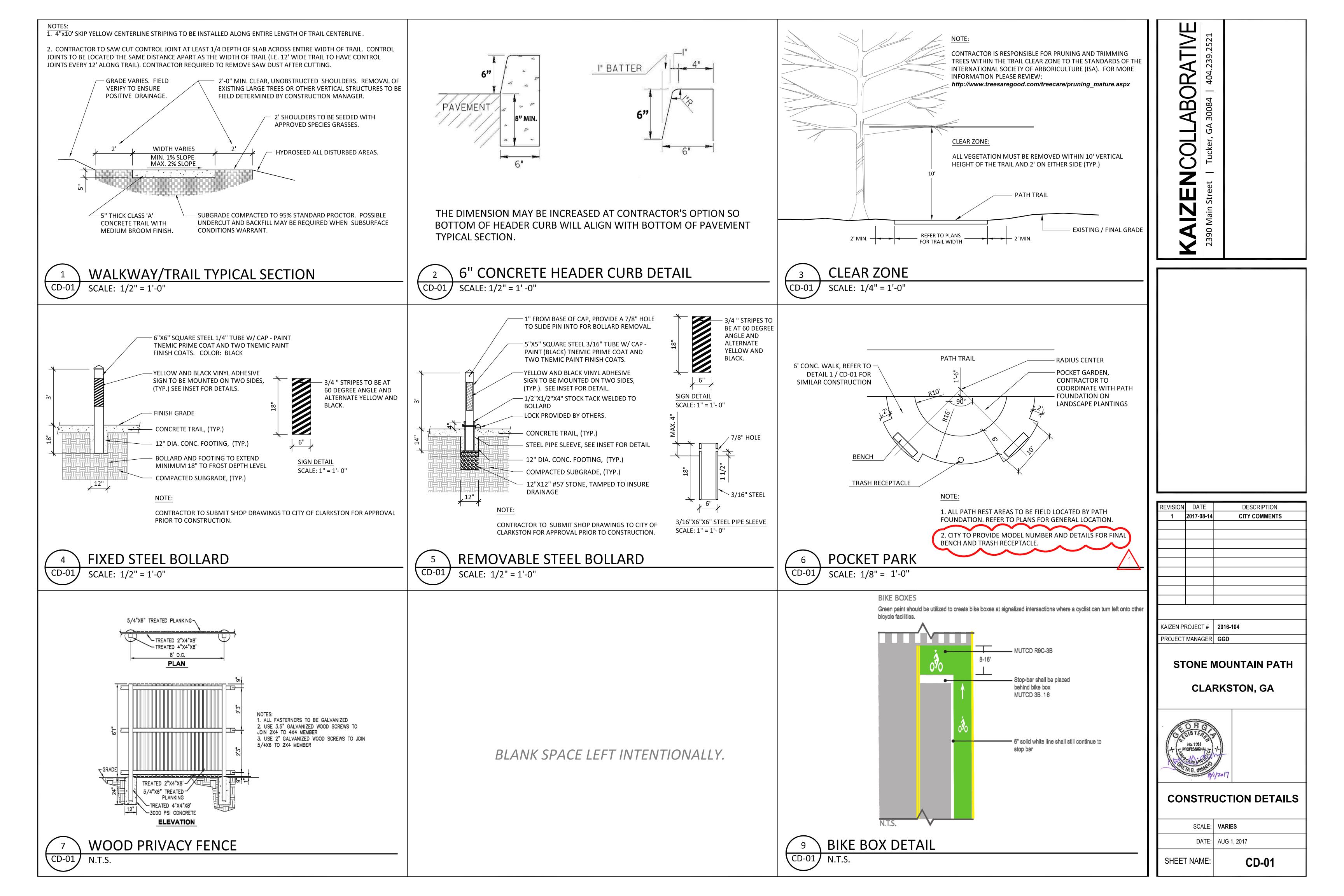
KAIZEN PROJECT # **2016 - 104** PROJECT MANAGER **GGD**

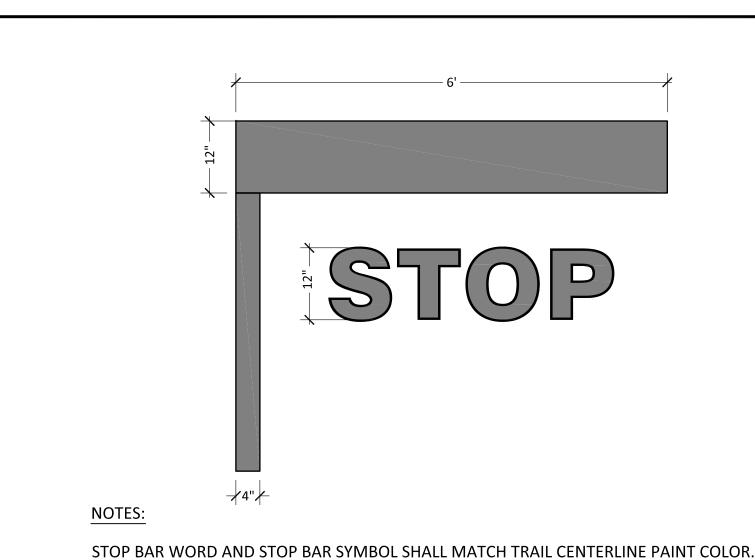
> STONE MOUNTAIN PATH CLARKSTON, GA



SIGNING AND MARKING SIGN MATRIX

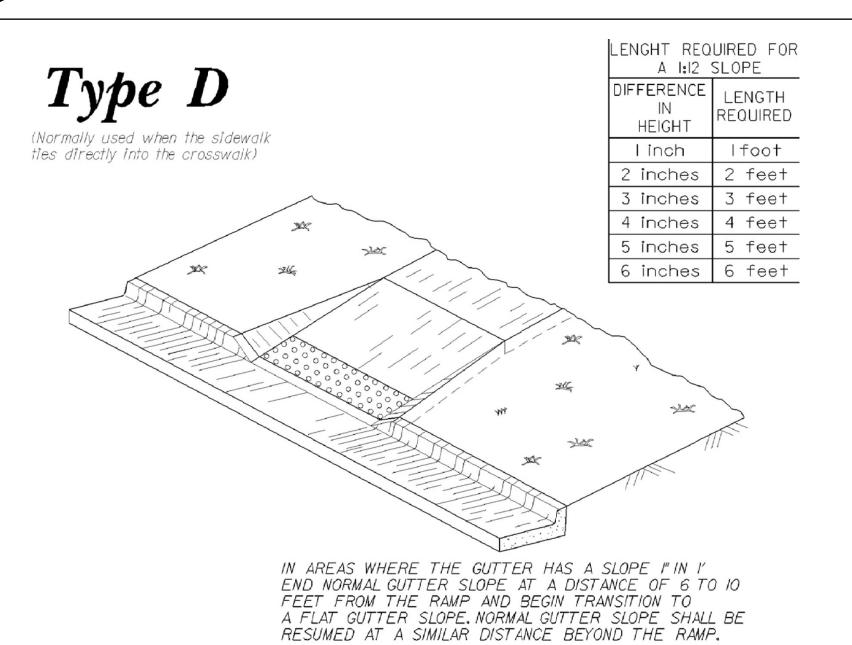
SCALE:	1"=30'
DATE:	AUG 1, 2017
SHEET NAME:	SM-02

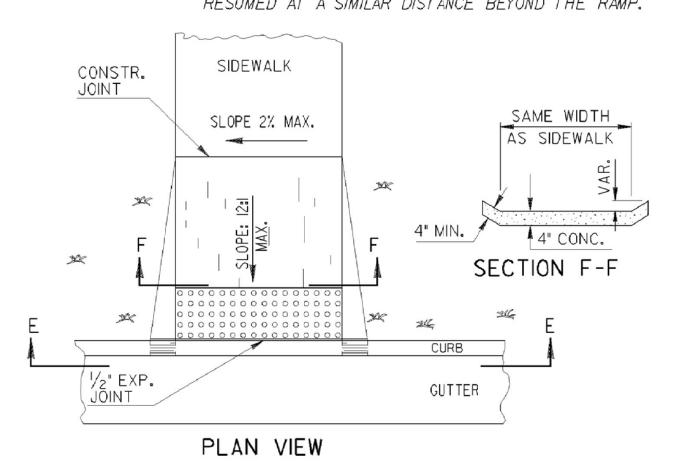


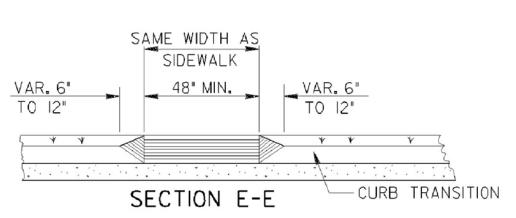


SCALE: $\frac{3}{4}$ " = 1'-0"

STOP BAR PAINT





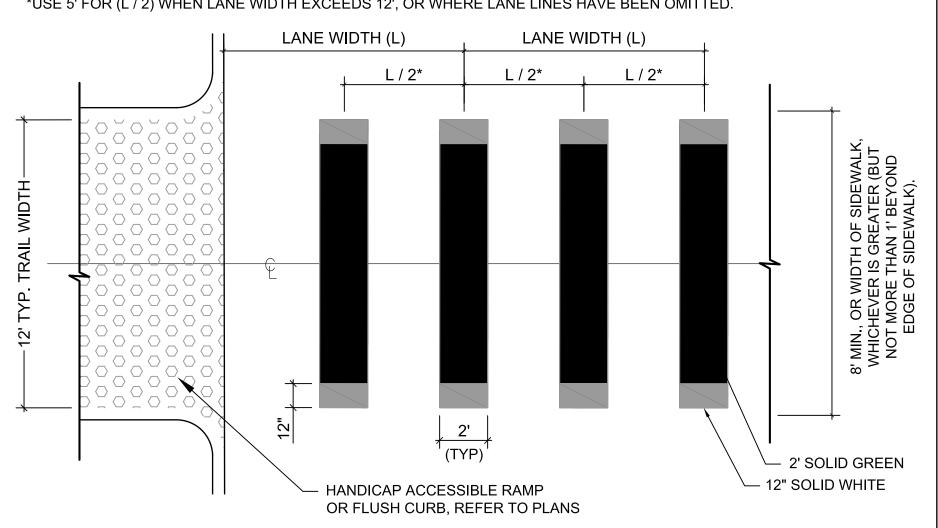


GDOT TYPE 'D' HANDICAP RAMP

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

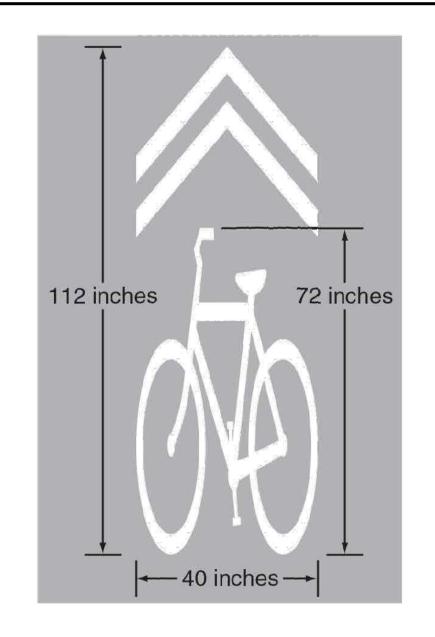
1. ALL COLOR PAVEMENT MARKINGS TO BE ANTI SKID WITH CLEAN CUT EDGES (TYP.). CONFORM TO GDOT STANDARD SPECIFICATIONS FOR INSTALLATION, AND FINISH. 2. USE CASTEK COLOR SAFE, OR APPROVED EQUAL

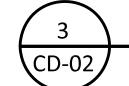
*USE 5' FOR (L / 2) WHEN LANE WIDTH EXCEEDS 12', OR WHERE LANE LINES HAVE BEEN OMITTED.



GREEN CROSSWALK STRIPING

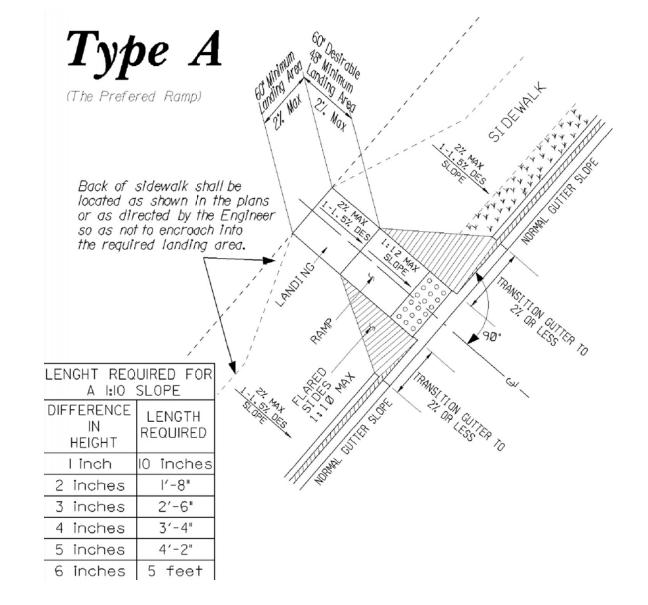
SCALE: 1/4" = 1'-0"



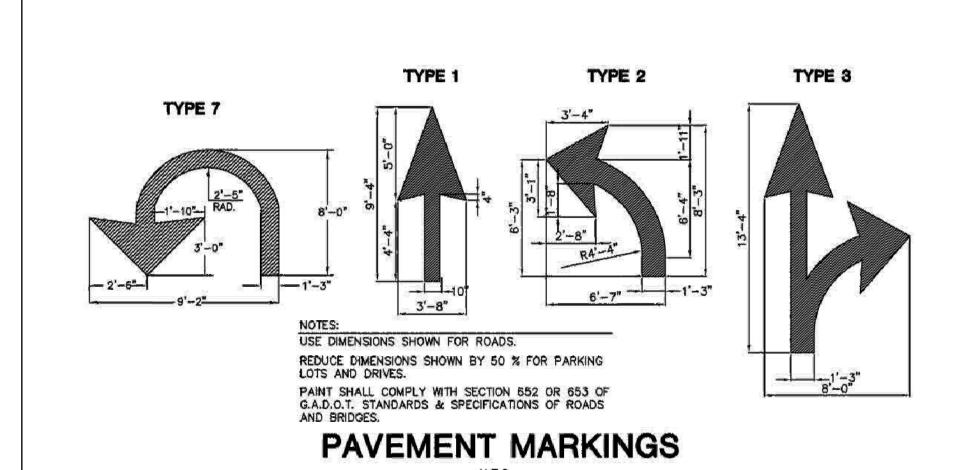


BIKE SHARED LANE SYMBOL

N.T.S.









GDOT PAVEMENT MARKING DETAILS (CD-02) N.T.S.

45 DEGREE BEVELED METAL CAP

SEE PATH SIGN MATRIX FOR LAYOUT

TO BE TACK WELDED TO POST

3/16" x 3" x 3" x 8' SQUARE

UNDISTURBED SOIL

#57 STONE, TAMPED

MIN. 12"X12" CONCRETE FOOTER

BLACK METAL POST

BLANK SPACE LEFT INTENTIONALLY.

I I
KAIZEN PROJECT # 2016-104
PROJECT MANAGER GGD

	_
GE GISTER TO	
11 10 11	
(+ (= PROFESSIONAL 5)	
Jan dien	
GRETA G. DENNET	
8/1/2017	
•	l

CONSTRUCTION DETAILS

SCALE:	VARIES
DATE:	AUG 1, 2017
SHEET NAME:	CD-02

NOTES:

REGULATORY TRAIL SIGNS

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

1. PATH FOUNDATION TO DETERMINE IN

WITH 2'-0" CLEAR AREA FROM EDGE OF

3. ALL SIGNS TO BE ATTACHED TO SIGNPOST

USING 1" LONG, 1/4 DIAMETER, STAINLESS

STEEL #14A BUTTON HD TORX SECURITY

BASED ON FIELD CONDITIONS AND

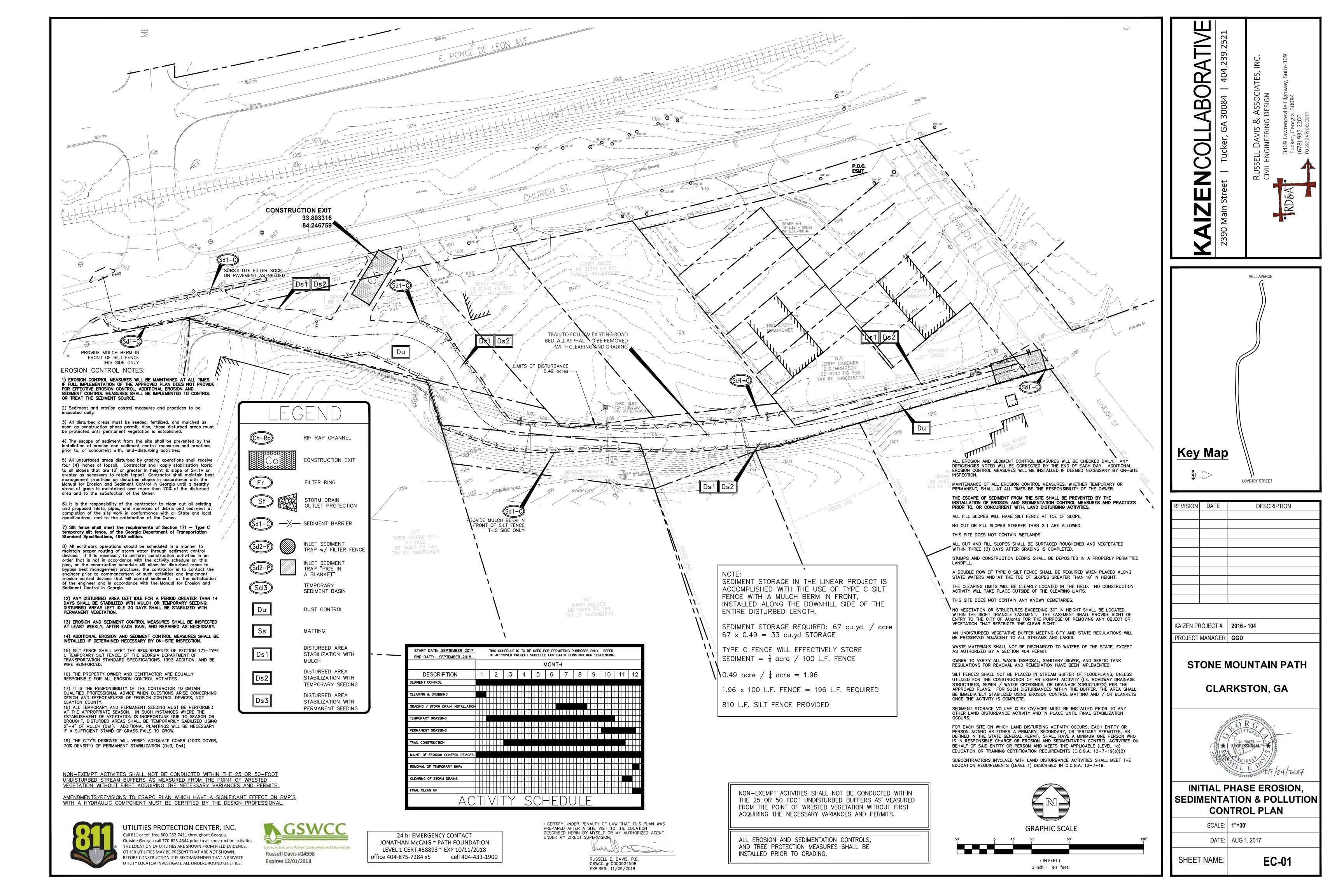
AVAILABLE SPACE FOR SIGNAGE.

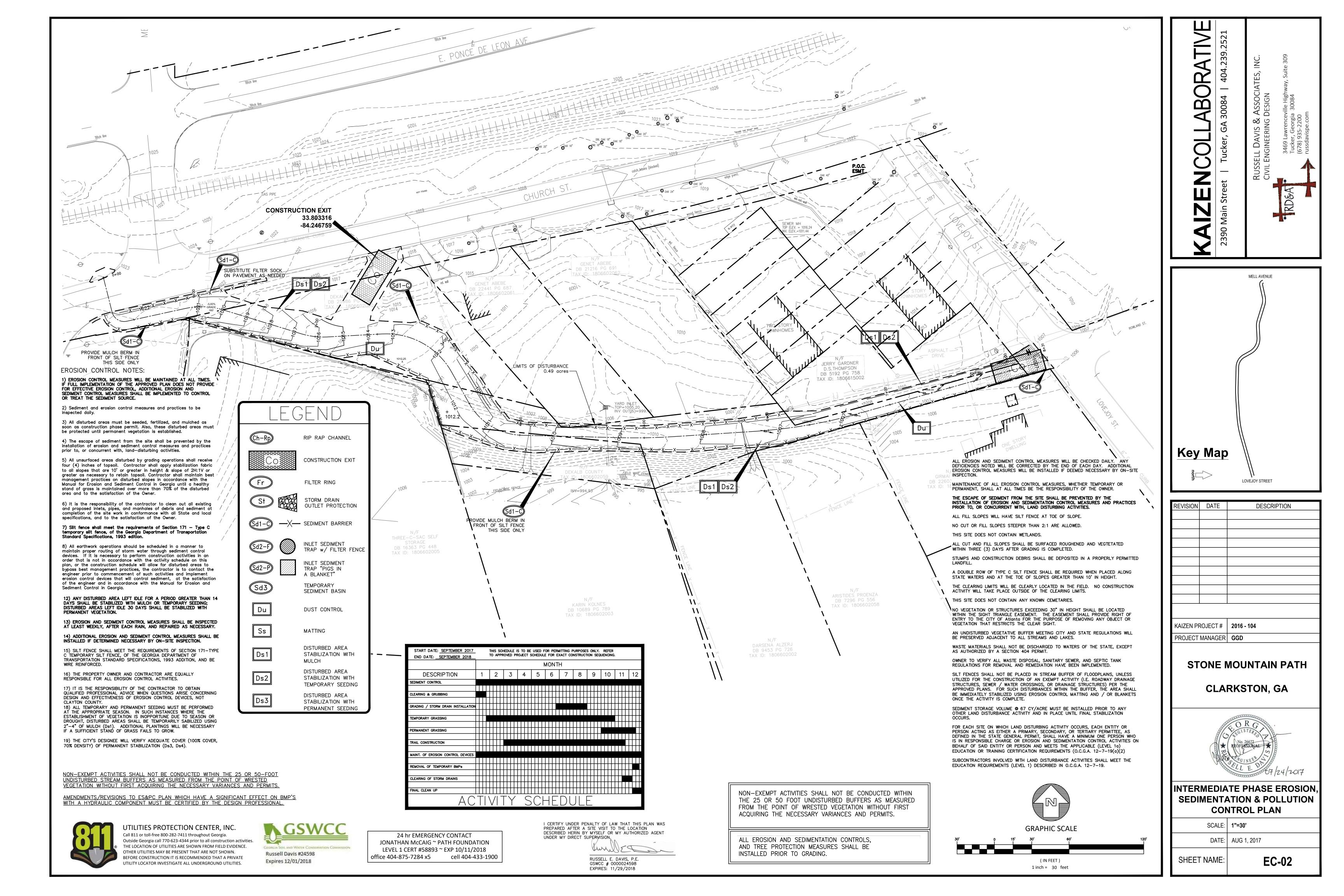
2. ALL SIGNS SHALL BE LOCATED

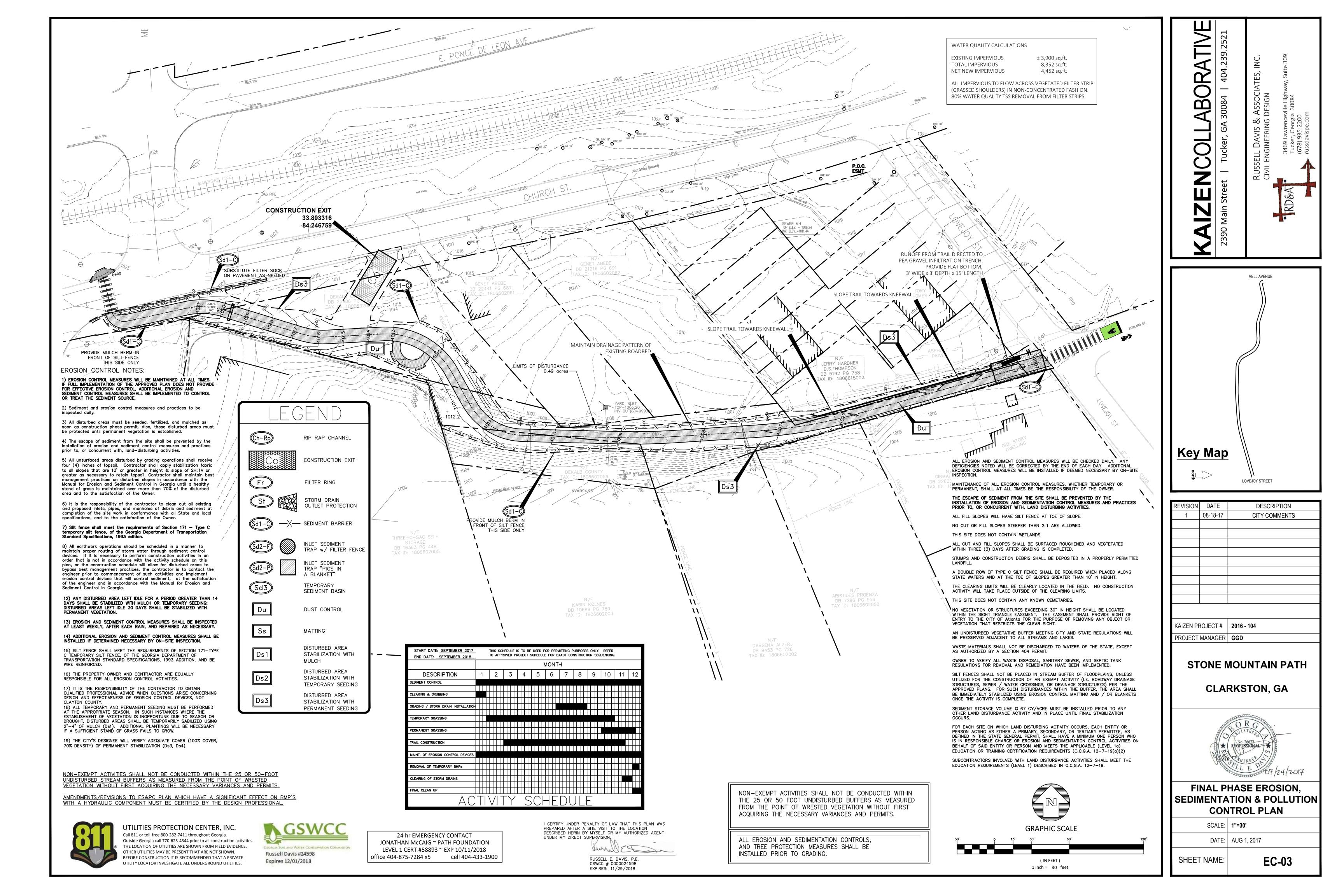
TRAILWAY TO EDGE OF SIGN.

WOOD SCREW.

FIELD THE APPROPRIATE SIGN TO BE UTILIZED







REQUIREMENT FOR REGULATORY COMPLIANCE Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to Ds2—Disturbed Area Stabilization (With Temporary Seeding), Ds3-Disturbed Area Stabilization (With Permanent Seeding), and Ds4-Disturbed Area Stabilization (With Sodding).

Mulching without Seeding This standard applies to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover. Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch. 2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers. 3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated: 1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application. 2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs. 3. Polyethylene film shall be secured over banks or stockpiled soil material for

temporary protection. This material can be salvaged and re-used.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area. 1. Dry straw or Hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment. 2. If the area will eventual be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic

3. Apply polyethylene film on exposed areas.

Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk arrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough no to cut the mulch but to press it into the soil leaving much of it in an erect position. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifieers binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substirued for emulsified asphalt. Please refer to specification Tac—Tackifers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's

Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips. 3. Polyethylene film shall be anchor trenched at the top as well as

incrementally as necessary. DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) Ds1

REQUIREMENT FOR REGULATORY COMPLIANCE Species Refer to specification Ds1 — Disturbed Area Stabilization (With Temporary

INSTALLATION SPECIFICATIONS

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others. No shaping or grading is required if slopes can be stabilized by hand—seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand—seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted. trenched or otherwise scarified to provide a place for seed to lodge and

Lime and fertilizer Agricultural lime is required unless soil tests indicate otherwise. Apply agricultrual lime at a reate determined by soil test for pH. Quick acting lime shold be incorporated to midify pH during th egermination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilzer and amendments. Fertilizer should be applied before land prepreation and incorporaed with a disk, ripper or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in thefirst pass with seed. and shoume hydraulic mulch, then topped with the remaining

Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

Select a grass or grass—legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker—seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching

MAINTENANCE

temporary vegetation fails to emerge or where a poor stand exists.

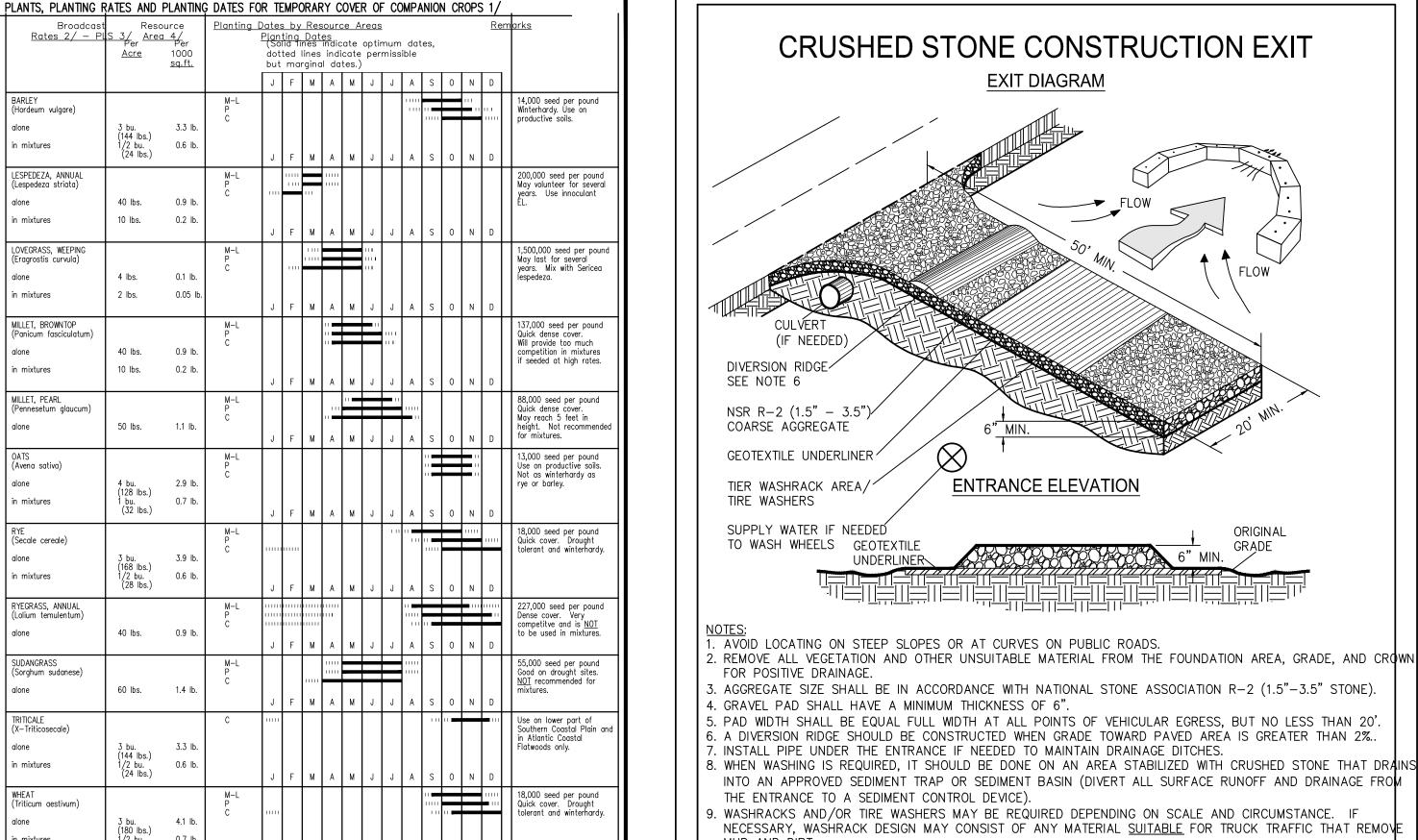
Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion poteintial. However, the use of mulch can often accelerate and enchance germination and vegetation establishement. Mulch without seeding should be considered for short term protection. Refer to Ds1-Disturbed Area Stabilization (With Mulching Only).

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

SUGGESTED SEEDBED DEPTHS

SLOPE	SEEDBED DEPTHS
3:1 OR FLATTER	less than 4" depth
2:1 TO 3:1	1" TO 4" DEPTH
	DEPRESSIONS EVERY
2:1 OR STEEPER	6"— 8" HAND DUG, IF
2.1 OK SILLFLK	NECESSARY

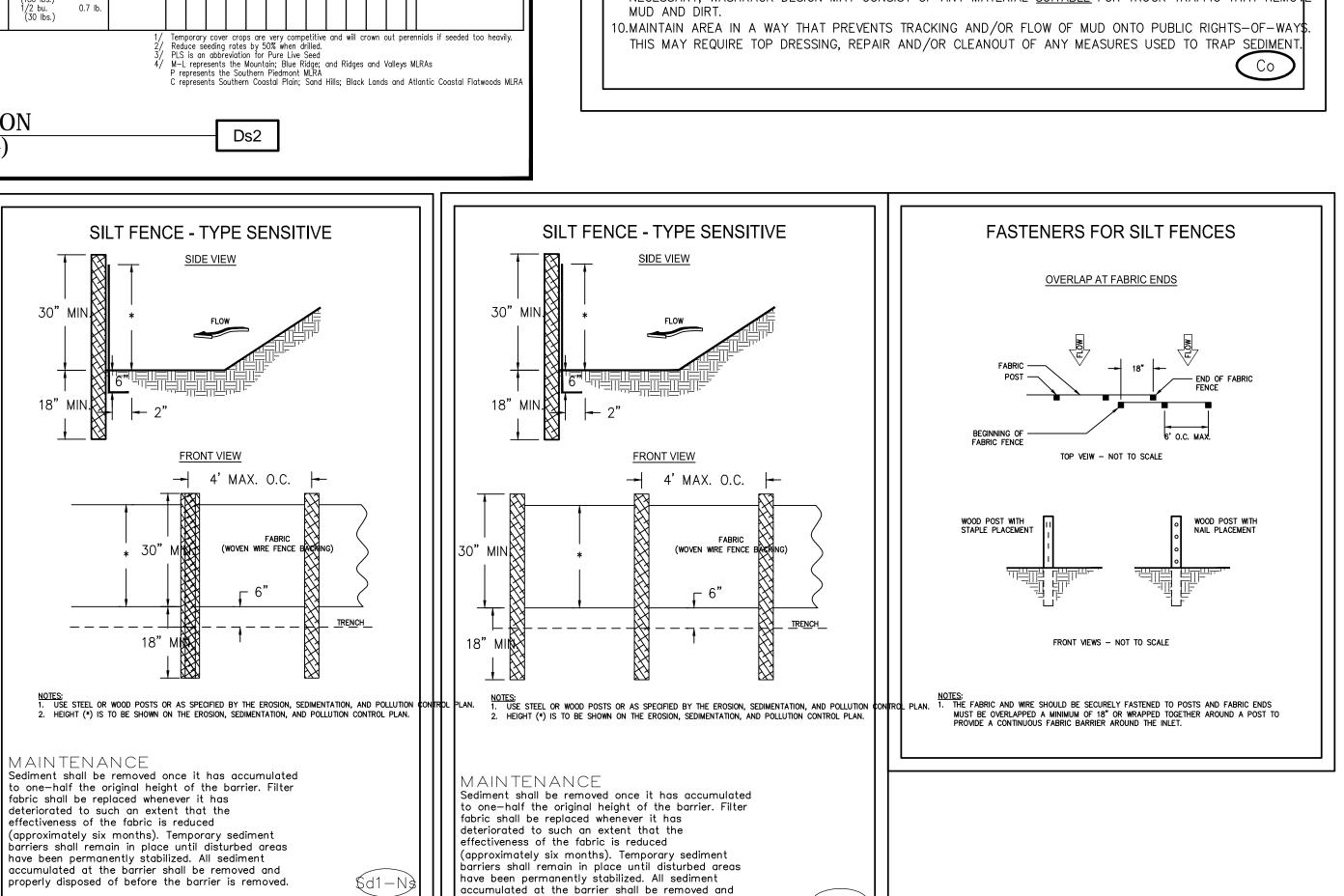
DISTURBED AREA STABILIZATION



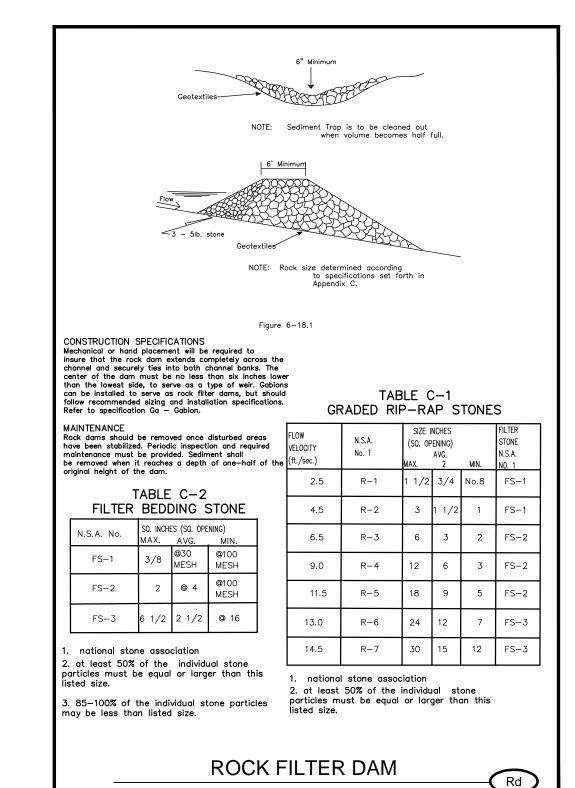
(WITH TEMPORARY SEEDING) Re—seed areas where an adequate stand of

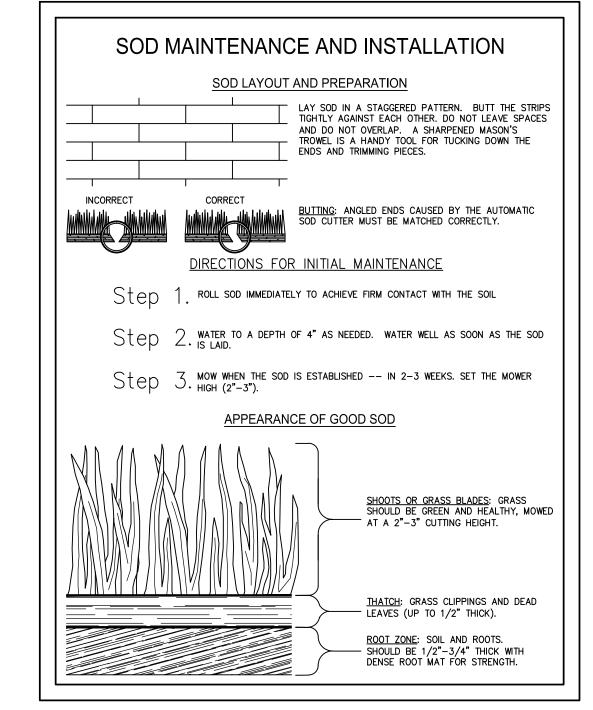
n mixtures

in mixtures



properly disposed of before the barrier is removed.

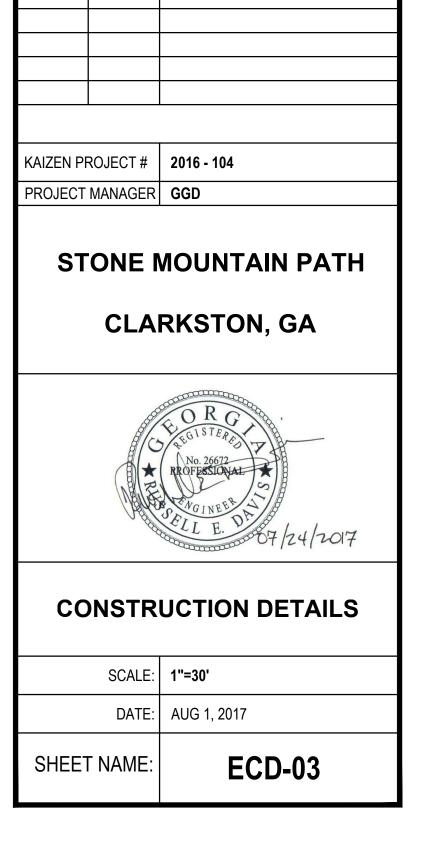






JTILITIES PROTECTION CENTER, INC Call 811 or toll-free 800-282-7411 throughout Georgia. Outside Georgia call 770-623-4344 prior to all construction activities. THE LOCATION OF UTILITIES ARE SHOWN FROM FIELD EVIDENCE. OTHER UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN. BEFORE CONSTRUCTION IT IS RECOMMENDED THAT A PRIVATE UTILITY LOCATOR INVESTIGATE ALL UNDERGROUND UTILITIES.





ASSOCI DESIGN

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DAVIS

MELL AVENUE

LOVEJOY STREET

DESCRIPTION

ain

Key Map

REVISION DATE



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

•To protect the soil surface from erosion ·To reduce damage from sediment and unoff to down-stream areas

 To improve wildlife habitat and visual To improve aesthetics

REQUIREMENT FOR REGULATORY

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil isturbing activities at the site have been con ot covered by permanent structures and areas

pleted, and that for unpaved areas and areas ocated outside the waste disposal limits of a andfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface covered in permanent vegetation with a density of 70% or greater, or landscaped ac cording to the Plan (uniformly covered with landcaping materials in planned landscaped areas), or equivalent permanent stabilization measures

Commercially available plants beneficial to wildlife species include the following:

Beech, Black Cherry, Blackgum, Chestnut, Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and

All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear.

Shrubs and Small Trees Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain _aurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

a 100-mesh sieve. Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza equipment should be "finely ground limestone" which produces seeds used by quail and songbirds. size. Finely ground limestone is calcitic or dolomitic Grasses, Legumes, Vines and Temporary Cover Bahiagrass, Bermudagrass, Grass-Legume

mixtures, Partridge Pea, Annual Lespedeza, Or chardgrass (for mountains), Browntop Millet (for porary cover), and Native grapes. Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate leumes such as vetches, clovers, and lespedezas

may be mixed with grass, but they may die out

after a few years. CONSTRUCTION SPECIFICATIONS Grading and Shaping Grading and shaping may not be required

ment is to be used. Vertical banks shall be

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

Concentrations of water that will cause excessive

Finely ground limestone can be applied in the mulch slurry or in combination with the top dressing. When conventional planting is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

Apply before land preparation so that it will be mixed with the soil during seedbed prepara-

. Mix with the soil used to fill the holes, distribute in furrows. . Broadcast after steep surfaces are scarified, pitted or trenched.

4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.

Plant Selection Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationis of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area; time of year of planting, method of planting; and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping

Other perennials, such as Bahia Grass and Sericea Lespedeza, are slow to become established and should be planted with another perennial spe cies. The additional species will provide quick cover and ample soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea Lespedeza (scarified) and 2) Tall Fescue with Sericea Lespedeza (unscarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common

oosen the soil to a depth of 4 to 6 inches; Permanent vegetation shall consist of, planted alleviate compaction; incorporate lime and trees, shrubs, perennial vines; or a crop of perenertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or nial vegetation appropriate for the region, such that within the growing season a 70% coverage plants; and allow for the anchoring of straw

> or hay mulch if a disk is to be used. 2. Tillage may be done with any suitable

3. Tillage should be done on the contour where 4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall

be pitted or trenched across the slope with

6 to 8 inches apart in which seed may lodge

2. For nursery stock plants, holes shall be

dry, preferably in August or September.

appropriate hand tools to provide two places

Permanent perennial vegetation is used to and germinate. Hydraulic seeding may also provide a protective cover for exposed areas including cuts, fills, dams, and other denuded Individual Plants

PLANNING CONSIDERATIONS 1. Where individual plants are to be set, the soil shall be prepared by excavating holes, 1. Use conventional planting methods where opening furrows, or dibble planting.

by perennial vegetation shall be achieved. Final

stabilization applies to each phase of construc-

tion. For linear construction projects on land

used for agricultural or silvicultural purposes,

final stabilization may be accomplished by sta

silvicultural use. Until this standard is satisfied

measures shall not be removed.

and permanent control measures and facilities

are operational, interim stabilization measures

and temporary erosion and sedimentation control

into stands of rye is an excellent procedure.

Area Stabilization (With Sodding).

or when summer plantings are done.

sion control.

critical area plantings.

Lime and Fertilizer Rates and Analysis

should be used to ensure long-lasting ero-

bilizing the disturbed land for its agricultural or

2. When mixed plantings are done during marlarge enough to accommodate roots without ginal planting periods, companion crops shall Where pine seedlings are to be planted, 3. No-till planting is effective when planting is subsoil under the row 36 inches deep on the done following a summer or winter annual contour four to six months prior to planting. Subsoiling should be done when the soil is

4. Block sod provides immediate cover. It is Innoculants especially effective in controlling erosion All legume seed shall be inoculated with apadjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed**shall be a pure culture prepared specifically for propriate nitrogen-fixing bacteria. The innoculant the seed species and used within the dates on

Irrigation should be used when the soil is dry the container. A mixing medium recommended by the manufacturer shall be used to bond the innoculant to 6. Low maintenance plants, as well as natives, the seed. For conventional seeding, use twice

manufacturer. For hydraulic seeding, four times 7. Mowing should not be performed during the the amount of innoculant recommended by the quail nesting season (May to September). manufacturer shall be used. 8. Wildlife plantings should be included in All inoculated seed shall be protected from the sun and high temperatures and shall be planted

tion establishment enhancement, and erosion soil erosion shall be diverted to a safe outlet. Divercontrol effectiveness. Select the mulching matesions and other treatment practices shall conform rial from the following and apply as indicated: with the appropriate standards and specifications.

. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall Agricultural lime is required at the rate of one be applied at the rate of 2 tons per acre. Dry to two tons per acre unless soil tests indicate hay shall be applied at a rate of 2 1/2 tons otherwise. Graded areas require lime application If lime is applied within six months of planting permanent perennial vegetation, additional lime . Wood cellulose mulch or wood pulp fiber is not required. Agricultural lime shall be within shall be used with hydraulic seeding. It shall

the specifications of the Georgia Department of Dry straw or dry hav shall be applied (at the rate indicated above) after hydraulic seeding. Lime spread by conventional equipment shall be ound limestone." Ground limestone is calcitic or 3. One thousand pounds of wood cellulose of dolomitic limestone ground so that 90 percent of wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh 3/4:1 or steeper.

sieve and not less than 25 percent will pass through 4. Sericea Lespedeza hay containing mature seed shall be applied at a rate of three tons Fast-acting lime spread by hydraulic seeding . Pine straw or pine bark shall be applied at a spanning from the 180 micron size to the 5 micron thickness of 3 inches for bedding purposes

Other suitable materials in sufficient quantity

may be used where ornamentals or other

will pass through a 100-mesh sieve. ground covers are planted. This is not appropriate for seeded areas. It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic When using temporary erosion control bla Coast Flatwoods MLRAs. (See Figure 6-4.1) kets or block sod, mulch is not required.

one ground so that 95 percent of the material

Agricultural lime is generally not required where only trees are planted. planted areas, slopes, in ditches or dry water-Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table

Lime and Fertilizer Application When hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed. oculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over

mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennia species for water, nutrients, and growing space. A high seeding rate of the companion crop may

prevent the establishment of perennial species. Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.

Seed Quality The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is deter-

mined by multiplying the percent of pure seed with the percent of germination; i.e., (PLS = % germination x % purity) EXAMPLE:

Common Bermuda seed 70% germination, 80% purity PLS = 70% germination x 80% purity

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 ounds PLS and the bulk seed is 56 % PLS, the bulk seeding rate is:

10 lbs. PLS/acre = 17.9 lbs/acre You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed

preparation will be done as follows:

Tillage, at a minimum, shall adequately

the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour.

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

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

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

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of so shall be added and the plant shall be set in the hole.

the amount of innoculant recommended by the Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegeta-

> ing. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

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

application by one of the following methods: . Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.

Anchor straw or hay mulch immediately after

Synthetic tackifiers, binders or hydraulic mulch specifically designed to tack straw, shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. All tackifiers, binders or hydraulic mulch specifically designed to tack straw should be verified nontoxic through EPA 2021.0 testing.

Rye or wheat can be included with Fall and ways to prevent erosion. Bituminous treated Winter plantings to stabilize the mulch. The roving shall be applied within 24 hours after shall be applied at a rate of one-quarter to an area has been planted. Application rates one-half bushel per acre. and materials must meet Georgia Depart-Plastic mesh or netting with mesh no larger ment of Transportation specifications.

areas on lawns.

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

Straw or hay mulch will be spread uniformly the area within one hour after being placed in the within 24 hours after seeding and/or plant-

> Grass Hay 4" to 6" Pine needles Wood waste 4" to 6"

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

Topdressing will be applied on all temporary and permanent (perennial) species planted alone or in mixtures with other species. Recommended

Second Year and Maintenance Fertilization Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-5.1. Lime Maintenance Application Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests

can be conducted to determine more accurate requirements. if desired Mow Sericea Lespedeza only after frost to ensure that the seeds are mature. Mow between

Bermudagrass, Bahiagrass and Tall Fescue ma be mowed as desired. Maintain at least 6 inches of top growth under any use and management Moderate use of top growth is beneficial after es-

Exclude traffic until the plants are well established. Because of the quail nesting seaso mowing should not take place between May and

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER ANALYSIS OR RATE

UIVALENT SPECIES 50-100 lbs./ac. 1/ Cool season 00 lbs./ac Cool seasor grasses and legumes 00 lbs./ac. 00 lbs./ac. 00 lbs./ac -50 lbs./ac. 1/ 10-10-10 10-10-10 10-10-10 . Ground cover 00 lbs./ac 20-10-5 10 lbs./ac 10 lbs./ac 10-10-10 500 lbs./ac. 30 lbs./ac. 5/ Warm seaso

FERTILZER REQUIREMENTS

PLANTS, PLANTING

<u>Species</u>

AHIA. PENSACOLA

temporary cover

with other perennials

AHIA. WILMINGTON

temporary cover

with other perennials

BERMUDA, COMMON

odon dactylon)

ith other perennials

th temporary cover

with other perennials

BERMUDA SPRIGS (Cynodon dactylon)

EED CANARY GRASS Phalaris arundinacea)

with other perennial

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

30 lbs. 0.7 lb

/ PLS is an abbreviation for Pure Live Seed. Refer to section V.E of

3/ M-L represents to Mountain; Blue Ridge; and Ridges and Valleys MLRAs. P represents the Southern Piedmont MLRA

Sand Hills; Black Lands and Atlantic Coastal Flatwoods MLRA

10 lbs.

/ Reduce seeding rates by 50% when drilled.

C represents Southern Coastal Plain;

2/ Apply in split at 3/ Apply in 3 split

		ı					- 1										I I		4	1
First		6-1	12–12	1500	lbs./	/ac.	ť	50 –1	100 Ь	s./ac	. 2/	6/					Carpet Bugle Ajuga reptans	Carpet	2-4 in.	3 ft.
Seco		6-1 10-1	12-12 12-12 0-10	800 400	lbs./ lbs./ lbs./	ac.	57.	50 -1 50 -1 30 lbs	100 b: s./ac.	s./ac 5/	2/	6/					Bearberry Cotoneaster Cotoneaster dammeri		2-4 ft.	5 ft.
First Seco		6-1 0-1	2-12 0-10 0-10	1500	lbs./	ac.	5	50 lbs	s./ac.	6/							Ground Cover Cotoneaster Cotoneaster salicifoluis Reper		1-2 ft.	5 ft.
Main	tenance	ŏ-1	10–10	400	lbs./ lbs./	ac.		-									Rock Cotoneaster Cotoneaster horizontalis		1–2 ft.	5 ft.
pplico	wing seeding. ations when h lications.	igh rates are	e used. 5/	Apply Apply Apply	to gro	ass s	pecies	s only.	y .	iaht a	of 2 f	n 4	inche	8			Virginia Parthenocissue Creeper quinquefolia		low	3 ft.
.,		DI ANTINO	,	,			J		u nei	igiic c	,, ,	.0 1	iiioiio	J.			Daylily Hemerocallis sp quinquefolia	Day	2-3 ft.	2 ft.
NG K	ATES AND Broad						s by f			Areas	,					Remarks	English Ivy Hedera helix	1 ,	low	3 ft.
	<u> Rates 1/ -</u>	– PLS 2/	Resource <u>Area 3/</u>				PI	lantin	ng Da	tes						<u>ivernarks</u>	Compacta Ilex crenata Holly Compacta		3–4 ft.	5 ft.
	Per <u>Acre</u>	Per 1000 <u>sg.ft.</u>		dot	ted li	ines i	ndicat indica dates	ate pe	timun ermis	n da sible	tes,						Chinese Holly llex cornuta Rotunda	Chinese	3–4 ft.	5 ft.
		<u> </u>		J	F	М	A	M M	J	J	A	s	0	N	D		Dwarf Burford llex, burfordii Holly Nana	Hol	5-8 ft.	8 ft.
1)			P C		1 11111		巨	Ė	11111					11111		166,000 seed per pound. Low growing. Sod forming.	Dwarf Yaupon llex vomitoria Holly Nana	Hol	3–4 ft.	5 ft.
7	60 lbs.	1.4 lb.] ~									[Slow to establish. Plant with a companion crop. Will spread into bermuda	Repandens lex crenata Holly Repandens	Repar Ho	2-3 ft.	5 ft.
r ıls	30 lbs.	0.7 lb.														pastures and lawns. Mix with Sericea lespedeza or	Andorra Juniperus Juniper horizontalis 'Plumosa'	Ando Juni	2-3 ft.	5 ft.
			M-L P	J		M	<u> </u>	М	J	J		S		N		weeping lovegrass.	Andorra Juniperus Compacta horizontalis	- And	1–2 ft.	5 ft.
1)	60 lbs.	1.4 lb.	P	111111	111111		\top	Т		1			111111	1	111111	Same as above.	Juniper Plumosa, compacta	Juni		
r .1-																Sume as above.	Blue Chip Juniperus Juniper horizontalis 'Blue Chip'		8–10 in.	4 ft.
ıls	30 lbs.	0.7 lb.		J	F	М	LA_	М	J	J	A	s	0	N	D			Rlue	4–6 in.	3 ft.
			P C		111		F	F								1,787,000 seed per pound Quick cover. Low growing and sod forming. Full sun.	Blue Rug Juniperus Juniper horizontalis Wiltonii			0 14
ıls	10 lbs. 6 lbs.	0.2 lb. 0.1 lb.														Good for athletic fields.	Parsons Juniperus dayuri Juniper Expansa (Squamata Parso		18-24 in.	5 ft.
			P C	J	F	М	<u> </u>	M	J	J	A	S	0	N	D		Pfitzer Juniperus chinen: Juniper Pfitzerana		6-8 ft.	6 ft.
er/er	10 lbs.	0.2 lb.	С		1											Plant with winter annuals.	Prince of Uniperus Wales Juniper horizontalis 'Prince of Wales	Princ	8–10 in.	4 ft.
ıls	6 lbs.	0.1 lb.														Plant with Tall fescue.		Sarc	1–2 ft.	5 ft.
	0 103.	0.1 10.	M-L	J	F	<u>M</u>	A	М	J	J	Α_	S	0	N.	D	A cubic foot contains	Sargent Juniperus Juniper chinensis 'Sargentii'	_ Juni	1-2 11.	J 11.
	10 lbs.	0.2 lb.														approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately	Shore Juniper Juniperus confer	Shore v	2-3 ft.	5 ft.
4																800 sprigs.	Liriope Liriope muscar	Lirio	8–10 in.	3 ft.
	6 lbs.	0.1 lb.	P C	1111	1	111	F	F		111111				.	ļ	Same as above.	Creeping Liriope spicata Liriope	l limit	10-12 in.	1 ft.
	6 lbs.	0.1 lb.	С	J	F	M		М	11111 J	J	Α	S	0	N.	D	Southern Coastal Plain only.	Big Leaf Vinca major Periwinkle	Big I	12-15 in.	4 ft.
oides)	Block sod	only	P C		F		F	F	1					F		Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in	Common Vinca minor Periwinkle	Comi	5–6 in.	4 ft.
																concentrated flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far north	Cherokee Rose laevigata Rose	Chero	2 ft.	5 ft.
																Winterhardy as far north as Athens and Atlanta.	Memoria Rose Rose weuchuriar	Memori	2 ft.	5 ft.
				J	F	М	LA_	М	L_	J	A	S	0	N	D		St. Johnswort Hypericum calycer			3 ft.
																100,000 seed per pound. Dense growth. Drought	Anthony Spirea bumaldo	Anth	3–4 ft.	5 ft.
ls	15 lbs.	0.3 lb.	M-L P										F			Dense growth. Drought tolerant and fire resistant. Attractive rose, pink and white blossoms sring to late fall. Mix with 30 pounds of Tall fescue or 15	Thunberg Spirea thinberg	Water Thun	3–4 ft.	5 ft.
					1	1	1	1	1	I	l	1	1	1	1	pounds of Tall fescue or 15	Spirea	Spir	l '	

Grows similar to tall fescue.

227,000 seed per pound. Mix with Weeping lovegrass or other low-growing grasses or legumes.

Ds3

Tift 78 (Eremochloa ophiuroid (Cornilla varia) than one inch by one inch may be needed with winter annuals to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications. northward. Mulch is used as a bedding material to con serve moisture and control weeds in nurseries, 227,000 seed per pound.
Use alone only on better sites. Not for droughty soils. Mix with perennial lespedezas or Crownvetch. ornamental beds, around shrubs, and on bare 30 lbs. with other perennials opply topdressing in sprin ollowing fall plantings. N or heavy use areas or ithletic fields. LESPEDEZA, SERICEA (Lespedeza cuneata) 350,000 seed per pound. Widely adapted. Low maintenance. Mix with Weeping lovegrass, Comm bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent scarified eed with EL inoculant. Mix with Tall fescue or unscarified 75 lbs. seed-bearing hay 3 tons t when seed is mature. but before it shatters. Add Tall fescue or winter 300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban areas. Spreadin type growth. New growth has bronze coloration. We with weeping lovegrass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Sericea lespedeza. Slow to develop solid stands. Inoculate seed with EL 60 lbs. 1.4 lb scarified 75 lbs. unscarified rovide wildlife food and Lespedeza thumbérgii 1,500,00 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea lespedeza on roadbanks. OVEGRASS, WEEPING with other perennials For very wet sites. May clog channels. Dig springs from local sources. Use along river banks and shorelines. Panicum hemitom x3' spacing Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea PANICGRASS, ATLANTIC 20 lbs. var. amarulum) spedeza except on

SOIL MATERIAL Borrow areas, Sandy Loblolly pine (Pinus taeda) araded are Loamy Loblolly pine Clay Loblolly pine

(Salex species

Ground covers include a wide range of low-growing plants planted

gether in considerable numbers to cover large areas of the landscape

Ground covers grow slower than grasses. Weeds are likely to compete.

ground covers will not be used unless proper maintenance is planned.

Maintain mulch at three-inch theckness until plants provide adequate

Fall planting is encouraged because the need for constant watering is

reduced and plants have time to establish new roots before hot

SCIENTIFIC MATURE PLANT
NAMF HEIGHT SPACING

elia grandiflora

COMMON NAME

especially the first year. Maintenance is needed to insure survival. These

3 ft.

like flowers. Hardy, one of the best vine

Evergreen. Native to Georaia.

white flowers. Evergr

White flowers, red fruit

White flowers, red fruit Sun. Evergreen

Semi-evergreen. Su

Many flower colors. Full sun. Very hardy

Shade only. Climbs.

ery durable. Sui

iun, semi-shade.

Excellent for slopes.

More compact than

ery low. Sun.

ne of the best

ood winter cove

Feathery appearance

Emerald Sea or Blue Pacicfic cultivars are god

preads by runners.

Lavender-blue flowe

Rampant grower. No for restricted spaces State flower.

ft.x2ft. ALL 11/15-3/15

Rampant grower.

iemi-shade.

ac flowers in spring. emi-shade.

Sun, semi-shade.

Red in fall. Vin

1/ Other trees and shrubs listed in the previous tables may be interplanted with the pines for improved wildlife benefits. 2/ Type of Planting Trees alone 4 ft.x4 ft.

6 ft.x6 ft.

TREES FOR EROSION CONTROL

Trees in combination

or other plants

 $3/\ \text{M-L}$ represents the Mountains; Blue Ridge; and Ridges and Valleys MLRAs P represents the Southern Piedmont MLRA C represents the Southern Coastal Plain; Sand Hills; Black lands; and Atlantic Coast Flatwoods MLRAs 4/ Fertilization of companion crop is ample for this species.

ONSTRUCTION SPECIFICATIONS INSTALLATION

Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". surfaces only and not frozen surfaces, or gravel type soils.

Topsoil properly applied will help guarantee a stand. Don't use topsoil recently treated with herbicides or Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1.

Table 6-6.1 Fertilizer Requirements for Soil Surface Application

Fertilizer Type	Fertilizer Rate (Ibs./acre)	Fertilizer Rate (lbs./sq.ft.)	Season
10-10-10	1000	0.025	Fall

or tamped to provide good contact between sod and soil

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

Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled

Irrigate sod and soil to a depth of 4" immediately after installation. Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a

minimum of 2-3 weeks. MATERIALS

Sod selected should be certified. Sod grown in the general area of the project is desirable.

1. Sod should be machine cut and contain $\frac{3}{4}$ " (+ or $-\frac{1}{4}$ ") of soil, not including shoots or thatch. 2. Sod should be cut to the desired size within + or - 5%. Torn or uneven pads should be rejected. Sod should be cut and installed within 36 hours of digging. 4. Avoid planting when subject to frost heave or hot weather if irrigation is not available. 5. The sod type should be shown on the plans or installed according to Table 6-6.2. Se Figure 6-4.1 for your Resource

Table 6-6.2 Sod Planting Requirements

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

Re—sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than $2^{\circ}-3^{\circ}$ or as specified (See Figure 6-6.2). Apply one ton of agricultural lime as indicated by soil test or every 4—6 years. Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.3 Fertilizer Requirements for Sod

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

DISTURBED AREA STABILIZATION

Ds4

MELL AVENUE Key Map LOVEJOY STREET

ASSO DESIGN

⊗ ७

DAVI

KAIZEN PROJECT # | 2016 - 104 PROJECT MANAGER | GGD STONE MOUNTAIN PATH

DESCRIPTION

REVISION DATE

CLARKSTON, GA

CONSTRUCTION DETAILS

SCALE: 1"=30' DATE: | AUG 1, 2017

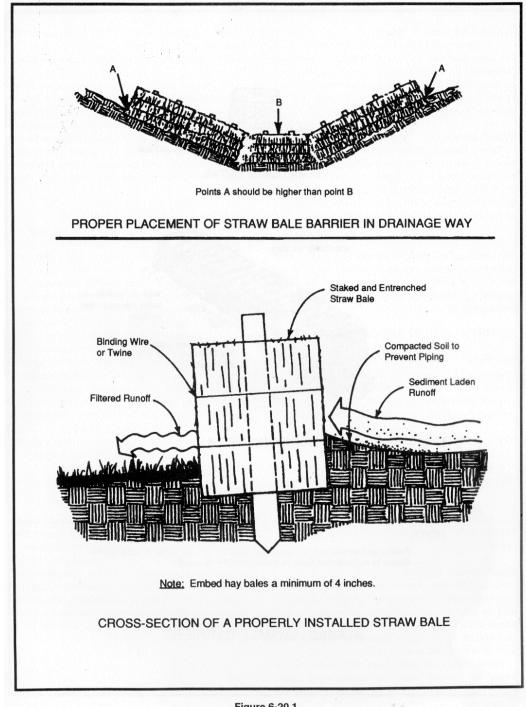
SHEET NAME:

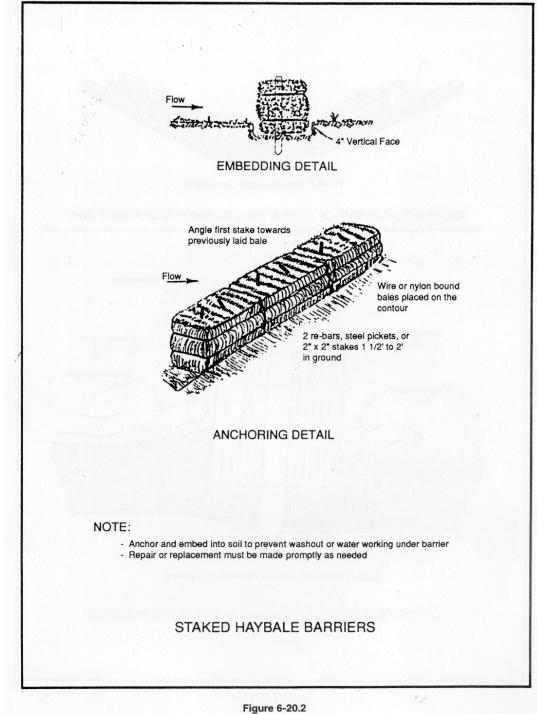
ECD-04

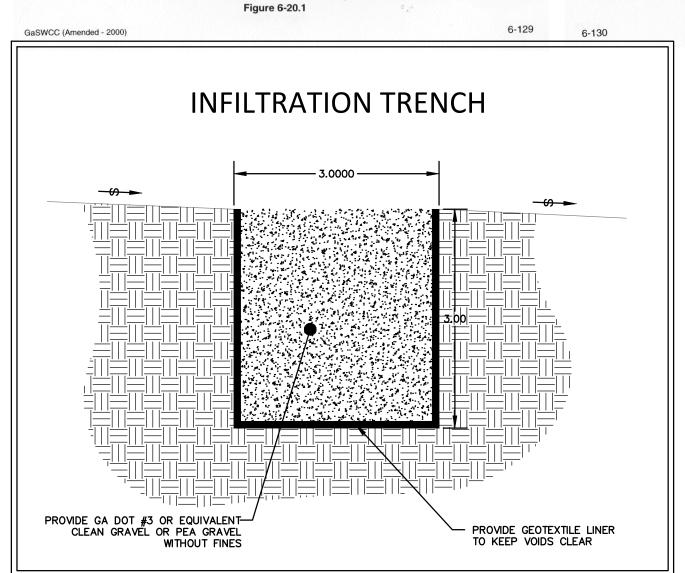
UTILITIES PROTECTION CENTER, INC. Call 811 or toll-free 800-282-7411 throughout Georgia. Outside Georgia call 770-623-4344 prior to all construction activities. THE LOCATION OF UTILITIES ARE SHOWN FROM FIELD EVIDENCE. OTHER UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN. BEFORE CONSTRUCTION IT IS RECOMMENDED THAT A PRIVATE UTILITY LOCATOR INVESTIGATE ALL UNDERGROUND UTILITIES.

Russell Davis #24598

Expires 12/01/2018







Dust Control on

Disturbed Areas

Controlling surface and air movement of dust

•To prevent surface and air movement of dust

This practice is applicable to areas subject to

Mulches. See standard Ds1 - Disturbed Area

Stabilization (With Mulching Only). Synthetic

material. Refer to specification Tac - Tackifiers Resins such as Curasol or Terratack should be

used according to manufacturer's recommenda-

Vegetative Cover. See specification Ds2 -Disturbed Area Stabilization (With Temporary

Spray-on Adhesives. These are used on miner-

Tillage. This practice is designed to roughen

al soils (not effective on muck soils). Keep traffic of these areas. Refer to specification Tac - Tackifiers.

surface and air movement of dust where on and

off-site damage may occur without treatment.

•To reduce the presence of airborne

or to animals or plant life.

METHOD AND MATERIALS

A. Temporary Methods

GSWCC (Amended - 2013)

substances which may be harmful or injurious to human health, welfare, or safety,

on construction sites, roads, and demolition sites.

Sediment Barrier - Compost Filter Sock



Compost filter socks are a three-dimensional tubular sediment control and storm water runoff filtration device typically used for perimeter control of sediment and soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities. Compost filter socks trap sediment and soluble pollutants by ng runoff water as it passes through the matrix of the compost filter socks and by allowing water to temporarily pond behind the compost filter socks, allowing deposition of suspended solids. Compost filter socks are also used to reduce runoff flow velocities

Compost filter socks are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from runoff. Compost filter socks are effective when installed perpendicular to sheet or low concentrated flow and in areas that silt fence is normally considered appropriate. Acceptable applications

- Site perimeters Above and below disturbed areas subject to sheet runoff, interrill and fill erosion
- Above and below exposed and erodable slopes
 Along the toe of stream and channel banks
- Around area drains or inlets located in a 'sump' On compacted soils where trenching of silt fence is difficult or impossible
- Around sensitive trees where trenching of silt fence is not beneficial for tree survival or may unnecessarily disturb established vegetation.

 On frozen ground where trenching of silt fence is impossible On paved surfaces where trenching of silt fence is impossible.

Compost filter socks should be installed where runoff can be filtered without damaging the compost filter sock or the area behind the sock.

C. Moisture content of less than 60% in accordance with standardized test methods for D. Material shall be relatively free (<1% by dry weight) of inert or foreign man made E. A sample shall be submitted to the Engineer for approval prior to being used and must comply with all local, state and federal regulations

CONSTRUCTION SPECIFICATIONS

The compost filter sock shall be installed according to this specification, as shown on the plans or as directed by the engineer. For installation of the compost filter sock see

1. Compost filter socks should be installed parallel to the base of the slope or other disturbed area. In extreme conditions (i.e., 2:1 slopes), a second compost filter sock shall be constructed at the top of the slope. 2. Stakes shall be installed through the middle of the compost filter sock on 10 ft (3m)

centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. In the event staking is not possible, i.e., when compost filter socks are used on pavement, heavy

- concrete blocks shall be used behind the compost filter socks to help stabilize during rainfall/runoff events. 3. Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm)
- 4. Loose compost may be backfilled along the upslope side of the compost filter sock, filling the seam between the soil surface and the device, improving filtration and
- 5. If the compost filter sock is to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of permanent
- vegetation. The engineer will specify seed requirements. 6. Compost filter socks are not to be used in perennial, ephemeral, or intermittent

Sediment shall be removed once it has accumulated to one-half the original height of the barrier. Compost filter socks shall be replaced whenever it has deteriorated to such an extent that the effectiveness of compost filter sock is reduced. Compost filter socks shall remain in place until disturbed areas have been permanently stabilized. All sedimen accumulation at the compost filter sock shall be removed and properly disposed of before the compost filter sock is removed.

DESIGN CRITERIA

Compost filter socks are designed to retain sediment transported in sheet flow from disturbed areas. Compost filter socks perform the same function as silt fence, allow a higher flow rate, and are usually faster and cheaper to install. Where all runoff is to be treated by the compost filter sock the maximum slope length behind the compost filter sock shall not exceed those shown in Table 1. The drainage area shall not exceed 1/4 acre for every 100 ft of compost filter sock.

The sediment and pollutant removal process characteristic to compost filter socks combines both filtering and deposition from settling solids. This is different than methods that rely on ponding for deposition of solids for sediment control, such as silt fence. Ponding occurs when water flowing to the compost filter sock accumulates faster than the hydraulic flow through rate of the compost filter sock. Hydraulic flow-through rates for compost filter socks are 50% greater than silt fence filter fabric. Greater hydraulic flow-through rates reduce ponding. Compost filter sock mesh netting shall meet the netting specification in Table 2. Compost filter socks shall meet the specifications in Table 3. Compost used in compost filter socks shall meet the specification described under Compost Filter Media Specifications.

	CRITERIA FOR COMPOST FILTER SOCK PLACEMENT				
Land Slope	Maximum Slope Length Above Compost Filter Sock				
Percent	Feet				
<2	100				
2 to 5	75				
5 to 10	50				
10 to 20	25				
>20*	15				
	e slope is greater than 20%, a flat area length of 10 ft between the toe				
of t	he slope to the compost filter sock should be provided.				
	Table 1				

A 12 inch diameter compost filter sock shall be used on developments where the life of the project is greater than or equal to six months. A 12 inch diameter compost filter sock may also be used on minor projects, such as residential home sites or small commercial

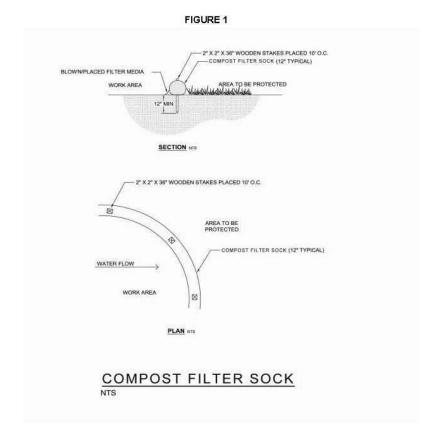
COMPOST FILTER MEDIA SPECIFICATIONS Compost used for compost filter sock filler material (filter media) shall be weed free and derived from a well-decomposed source of organic matter. The compost shall be

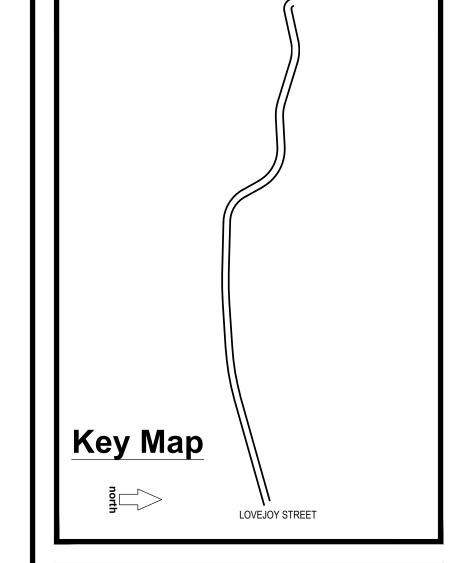
produced using an aerobic composting process meeting CFR 503 regulations including time and temperature data. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted. Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures:

A. PH – 5.0-8.0 in accordance with TMECC 04.11-A, "Electrometric pH Determinations B. Particle size – 99% passing a 2 in (50mm) sieve and a maximum of 40% passing a 3/8 in (9.5mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification". (Note- In the field, product commonly is between ½ in [12.5mm] and 2 in [50mm] particle size.)

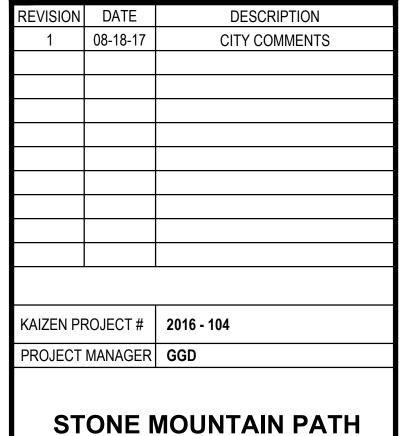
Table 2.					
Material Type	Multi-Filament Polypropylene	Multi-Filament Polypropyle			
Material Characteristic	Photodegradable	Photodegradable			
Mesh Opening	3/8 in (10mm)	1/8 in (3mm)			
Tensile Strength (ASTM 5035-95)	44 psi (3.09 kg/cm²)	202 psi (14.2 kg/cm²)*			
% Original Strength from Ultraviolet Exposure (ASTM G-155)	100% at 1000 hr	100% at 1000 hr			

	12 in (300mm) Diameter	
Effective Circumference	38 in (960mm)	
Density (when filled)	32 lbs/ft (50 kg/m)	
Air Space	20%	
Hydraulic Flow Through Rate	11.3 gpm/ft (141 L/min/m)	
P Factor (RUSLE)	0.1-0.32	

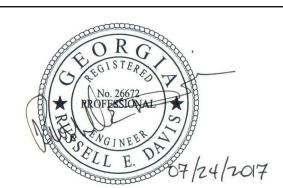




MELL AVENUE



CLARKSTON, GA



CONSTRUCTION DETAILS

SHEET NAME:

SCALE: 1"=30'

AUG 1, 2017 DATE:

ECD-05

When you washdown...

USE Best Management

Practices (BMPs) to keep

Protect your company.

rivers is illegal.

Discharging washdown water

into storm drains, streams or

washdown water from making

its way into streams and rivers.

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

and bring clods to the surface. It is an emergency

measure which should be used before wind ero

sion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches

apart, spring-toothed harrows, and similar plows

are examples of equipment which may produce

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

Calcium Chloride. Apply at rate that will keep

surface moist. May need retreatment. Permanent Vegetation. See specification Ds3 -Disturbed Area Stabilization (With Permanent

Vegetation). Existing trees and large shrubs may Topsoiling. This entails covering the surface

with less erosive soil material. See specification

Stone. Cover surface with crushed stone or coarse gravel. See specification Cr-Construction

Take Pride that the ready mix industry is working to keep Georgia's waterways clean.



On some sites, you may not have permission or access to a location suitable to dig a washdown pit. In those cases, you may have to washdown into a wheelbarrow or container and carry the container to a disposal site.

GaSWCC (Amended - 2000)

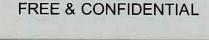


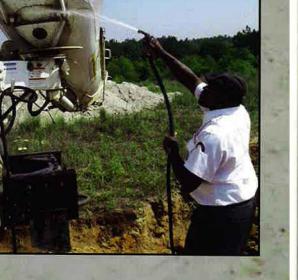
NEVER let washdown water enter a storm drain.



If you need help ...

Georgia Small Business **Environmental Assistance Program** Georgia Environmental Protection Division toll-free 1-877-427-6255 404-362-4842 www.gasmallbiz.org





A Guide for **Ready Mix** Chute/Hopper Washdown



Georgia Small Business Environmental Assistance Program 1-877-427-6255 (toll-free) 404-362-4842

Cleaning your equipment is important -- both for road safety AND for protection of equipment. Avoid environmental penalties by using BEST MANAGEMENT PRACTICES. A Typical Best Management Practice

Coordinate with site superintendent to excavate a pit

Washdown water stays in the pit. The pit is located away from a storm drain, stream or river. The pit is accessible to your vehicle. You have permission to use area for









2 Back in your equipment





For additional examples of Best Management Practices, please contact the Small Business **Environmental Assistance Program** Toll-free 1-877-427-6255 404-362-4842

PICK THE RIGHT SPOT TO WASHDOWN

washdown.

Coordinate with site superintendent to fill in pit and

Free & Confidential Assistance for Small Businesses

A special thanks to Walker Concrete