

**CITY OF HAPEVILLE
ECONOMIC DEVELOPMENT DEPARTMENT
PLANNING COMMISSION APPLICATION**

Name of Applicant ~~Will Bryant~~ Will Bryant
Mailing Address: 434 Marietta St. NW Atlanta GA
Telephone 678 944 0449 Mobile # _____ Email wbryant@mcmillanpazdanzsmith.com
Property Owner (s) Al Collins (Fulton County)
Mailing Address 1836 Conally Drive East Point GA 30344
Telephone 404-730-1822 Mobile # _____
Address/Location of Property: 525 King Arnold St. Hapeville GA
14 0095 LLO701 / 14 0095 LLO131

Parcel I.D. # **(INFORMATION MUST BE PROVIDED):** _____

Present Zoning Classification: Village Size of Tract: _____ acre(s)

Present Land Use: Library

Please check the following as it applies to this application

☒ Site Plan Review
☐ Conditional Use Permit
☐ Temporary Use Permit
Other (Please State) _____

I hereby make application to the City of Hapeville, Georgia for the above referenced property. I do hereby swear or affirm that the information provided here and above is true, complete and accurate, and I understand that any inaccuracies may be considered just cause for invalidation of this application and any action taken on this application. I understand that the City of Hapeville, Georgia, reserves the right to enforce any and all ordinances. I further understand that it is my/our responsibility to conform with all of City of Hapeville's Ordinances in full. I hereby acknowledge that all requirements of the City of Hapeville shall be adhered too. I can read and write the English language and/or this document has been read and explained to me and I have full and voluntarily completed this application. I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for a violation thereof.

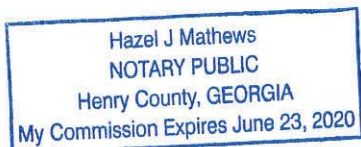
[Signature]
Applicant's signature

Date: 2/17/2019

Sworn to and subscribed before me

This 02 day of Feb., 2019.

Hazel J Mathews
Notary Public



CITY OF HAPEVILLE
ECONOMIC DEVELOPMENT DEPARTMENT
PLANNING COMMISSION APPLICATION

WRITTEN SUMMARY

In detail, provide a summary of the proposed project in the space provided below. (Please type or print legibly.)

The proposed project is to provide a new Library for the constituents of the City of Hapeville by the Fulton County Library System. The existing library has structural & functional problems that prohibit its continued use and renovation. As such the Fulton County Library System has elected to construct a new 5,850 sq ft facility. The building has been designed to move closer to the street, and provide a unique public building specifically for Hapeville. Additional Parking will be constructed behind the library to help serve need at the adjacent park, senior center, and future Hapeville Health Center. The parking lot currently is being designed with pervious pavement to address water quality & quantity. Landscaping (still in development) will feature indigenous plantings requiring no irrigation. The project will be a LEED project featuring windows for daylighting, bike racks, preferred parking for low emitting vehicles, and reduced heat island strategies.

CITY OF HAPEVILLE
ECONOMIC DEVELOPMENT DEPARTMENT
PLANNING COMMISSION APPLICATION

AUTHORIZATION OF PROPERTY OWNER

I CERTIFY THAT I AM THE OWNER OF THE PROPERTY LOCATED AT:

525 King Arnold Street

Hapeville, GA

City of Hapeville, County of Fulton, State of Georgia

WHICH IS THE SUBJECT MATTER OF THIS APPLICATION. I AUTHORIZE THE APPLICANT NAMED BELOW TO ACT AS THE APPLICANT IN THE PURSUIT OF THIS APPLICATION FOR PLANNING COMMISSION REVIEW.

Name of Applicant Will Bryant

Address of Applicant 434 Marietta St. NW Atlanta, GA

Telephone of Applicant 678 944 0149



Signature of Owner

ALFRED COLLINS

Print Name of Owner

Personally Appeared Before Me this 02 day of Feb, 2019.

Hazel J Mathews
Notary Public

Hazel J Mathews
NOTARY PUBLIC
Henry County, GEORGIA
My Commission Expires June 23, 2020

Site Plan Checklist – Please include with your application.

A site plan is used to determine the practical ability to develop a particular property within the City of Hapeville. Information relating to environmental condition, zoning, development impact, consistency with the Hapeville Comprehensive Plan and relevant town master plans will be considered in the decision process. To be considered, a site plan **must** contain the following information:

(Please **initial** each item on the list above certifying the all required information has been included on the site plan)

- ☒ A brief project report shall be provided to include an explanation of the character of the proposed development, verification of the applicant's ownership and/or contractual interest in the subject site, and the anticipated development schedule. Please complete and submit all forms contained within the application for site plan review.
- ☒ Site plans shall be submitted indicating project name, applicant's name, adjoining streets, scale, north arrow and date drawn.
- ☒ The locations, size (sf) and height (ft) of all existing and proposed structures on the site. Height should be assessed from the base of the foundation at grade to the peak of the tallest roofline.
- ☒ Site plans shall include the footprint/outline of existing structures on adjoining properties. For detached single-family residential infill development, the front yard setback shall be assessed based on the average setback of existing structures on adjoining lots. Where practical, new construction shall not deviate more than ten (10) feet from the average front yard setback of the primary residential structure on an adjoining lot. Exemption from this requirement due to unnecessary hardship or great practical difficulty can be approved at the discretion of the Planning Commission. To be considered for an exemption, the applicant must submit a "Request for Relief" in writing with their site plan application, including the conditions that necessitate relief (i.e. floodplain, wetland encroachment, excessive slope, unusual lot configuration, legally nonconforming lot size, unconventional sitting of adjoining structures, etc).

WAB
X

The location and general design cross-section characteristics of all driveways, curb cuts and sidewalks including connections to building entrances. A walkway from the primary entrance directly to the public sidewalk is required for all single-family residential development.

WAB
✓

The locations, area and number of proposed parking spaces. Please refer to Article 22.1 Chart of Dimensional Requirements to determine the correct number of parking spaces for your particular type of development.

WAB
✓

Existing and proposed grades at an interval of five (5) feet or less.

✓

in progress

The location and general type of all existing trees over six (6) inch caliper and, in addition, an identification of those to be retained. Requirements for the tree protection plan are available in Code Section 93-2-14(f). Please refer to Sec. 93-2-14(y) to determine the required tree density for your lot(s).

✓

in progress

A Landscape Plan: The location and approximate size of all proposed plant material to be used in landscaping, by type such as hardwood deciduous trees, evergreen trees, flowering trees and shrub masses, and types of ground cover (grass, ivies, etc.). Planting in parking areas should be included, as required in Section 93-23-18.

WAB
✓

The proposed general use and development of the site, including all recreational and open space areas, plazas and major landscape areas by function, and the general location and description of all proposed, outdoor furniture (seating, lighting, telephones, etc.). Detached single-family residential development may be exempt from this requirement.

WAB
✓

The location of all retaining walls, fences (including privacy fences around patios, etc.) and earth berms. Detached single-family residential development may be exempt from this requirement.

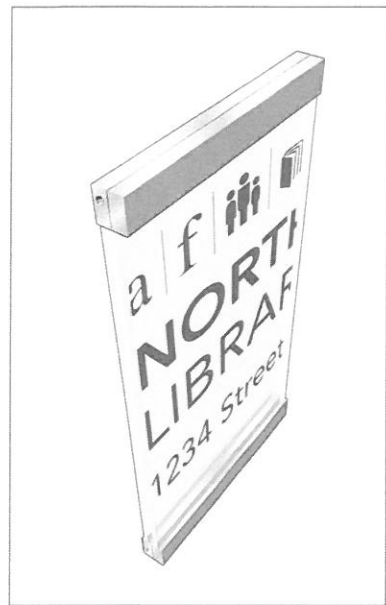
WAB
✓

The identification and location of all refuse collection facilities, including screening to be provided. Detached single-family residential development may be exempt from this requirement.

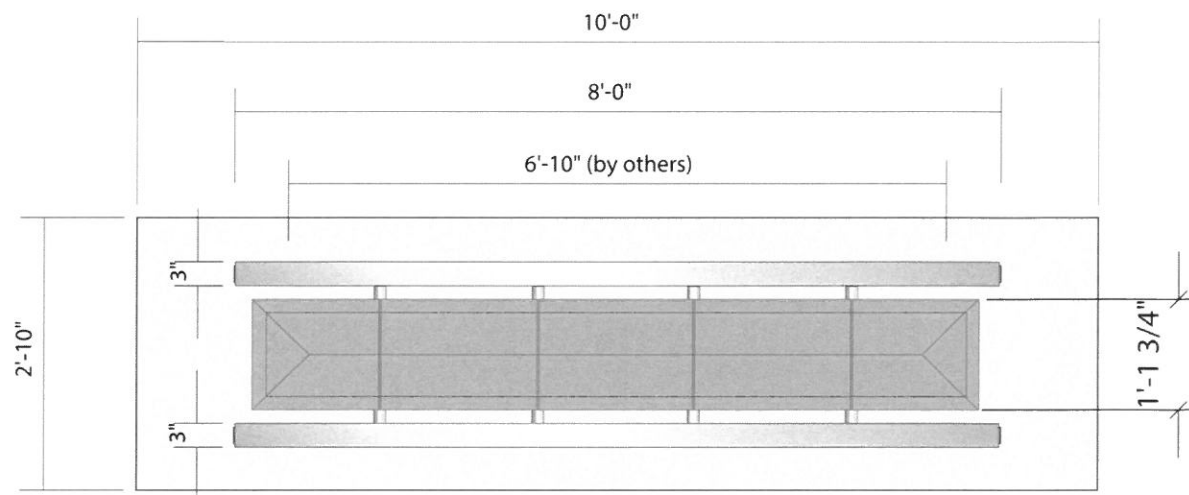
- WHB
Provisions for both on-site and offsite storm-water drainage and detention related to the proposed development.
- WHB
Location and size of all signs. Detached single-family residential development may be exempt from this requirement.
- WHB
Typical elevations of proposed building provided at a reasonable scale (1/8" = 1'0") and include the identification of proposed exterior building materials. Exterior elevations should show all sides of a proposed building.
- WHB
Site area (square feet and acres).
- WHB
Allocation of site area by building coverage, parking, loading and driveways, and open space areas, including total open space, recreation areas, landscaped areas and others. Total dwelling units and floor area distributed generally by dwelling unit type (one-bedroom, two-bedroom, etc.) where applicable.
- WHB
Floor area in nonresidential use by category. Detached single-family residential development may be exempt from this requirement.
- WHB
Total floor area ratio and/or residential density distribution.
- WHB
Number of parking spaces and area of paved surface for parking and circulation
- WHB
At the discretion of the planning commission, analyses by qualified technical personnel or consultants may be required as to the market and financial feasibility, traffic impact, environmental impact, storm water and erosion control, etc. of the proposed development.

Please initial each item on the list above certifying the all required information has been included on the site plan, sign and submit this form with your site plan application. Failure to include this form and information required herein may result in additional delays for the consideration of your application.

Applicant Signature: W. B. F.
Date 2/1/2019



SAMPLE MONUMENT SIGN, MATERIALS AND COLORS TBD
SEE ARCHITECTURAL SITE PLAN (A010) FOR LOCATION



2 Sign Type X1.2 - Detail
SG.X.01 (NTS)

1 Sign Type X1.2 - Plan View
SG.X.01 (1/2" = 1'-0")

Green standing seam metal roof material to match the roof of building.

M01 1/2" thk.glass panel; first surface clear; left and right return, and second surface sandblasted.
(See detail at right.)

Second surface graphics etched and filled with opaque paint.

P02

P01

Narrow beam, high intensity white LED edge lighting (top and bottom)

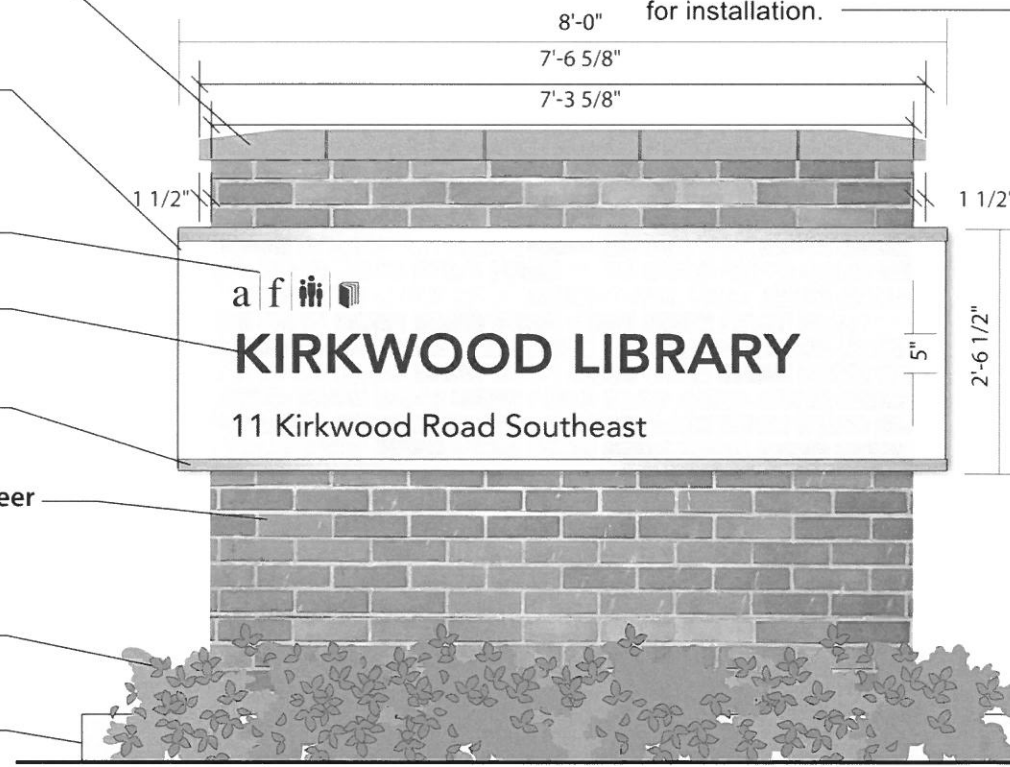
Base material: CMU Core with Brick Veneer
See AE drawing

Treat masonry with graffiti proof coating.

Landscaping
(by others)

Poured concrete base and foundation

NOTE: General contractor to coordinate embeds with sign fabricator to provide mounting method for installation.



3 Sign Type X1.2 - Main ID - Freestanding (horizontal)
SG.X.01 (1/2" = 1'-0")

NOTE: General contractor to coordinate embeds with sign fabricator to provide mounting method for installation.

M01 1/2" thk.glass panel; first surface clear; left and right return, and second surface sandblasted.

P07 Graffiti coat, first surface.

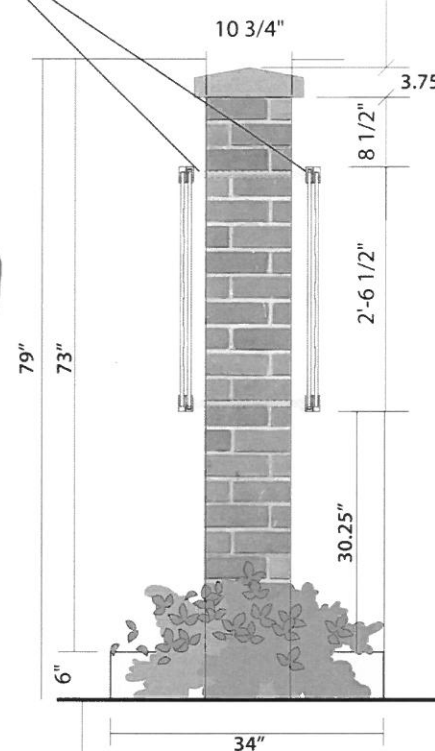
Second surface graphics via etched and filled with opaque paint.

M02 Etched glass panel

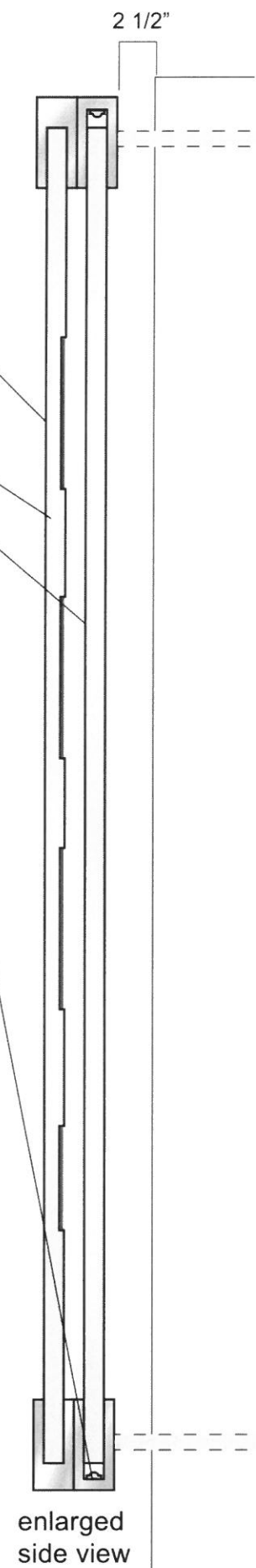
Narrow beam, high intensity white LED edge lighting (top and bottom)
Traxon Nano neutral white, 36 watt with photo cell sensor or similar.

Assembly weight (each side):
(*)280lbs

Required power:
Standard line voltage from 110 V - 277 V single phase.



4 Sign Type X1.2 - Side View
SG.X.01 (1/2" = 1'-0")



enlarged side view

Customer:
FCLS

Project:
FCLS Monument
Kirkwood Library

Salesperson:
Don

Designer:
Josh

Date: 8/31/2018

Details:

All details noted at left.

Drawing is on scale
(1/2" = 1')

Address:

11 Kirkwood Road SE
Atlanta, GA 30317

File Name:

Kirkwood Library_1



LANDSCAPE DEVELOPMENT PLAN
FOR

HAPEVILLE
LIBRARY

HAPEVILLE, GA

PREPARED FOR:

FULTON PUBLIC LIBRARY
SYSTEM

HAPEVILLE, GA

03/01/19

DRAWING INDEX

- HS-1 NOTES AND ABBREVIATIONS
HS-2 HARDSCAPE IMPROVEMENT PLAN
HS-3 LAYOUT PLAN
HS-4 GRADING AND DRAINAGE PLAN
HS-5 HARDSCAPE DETAILS
LS-1 LANDSCAPE IMPROVEMENT PLAN
LS-2 LANDSCAPE DETAILS

SYMBOLS:

	EXISTING TREE LOCATION
	COORDINATE POINTS
	NORTHINGS / EASTING POINT
	PROPOSED TREE LOCATION
	HIGH POINT / LOW POINT
	LIGHT FIXTURE (POLE LIGHT)
	LIGHT FIXTURE (PATHWAY / BOLLARD LIGHT)
	AREA DRAIN
	AREA DRAIN REFERENCE NUMBER
	SUBSURFACE DECK DRAIN
	PROPERTY LINE / RIGHT-OF-WAY
	EASEMENT LINE
	DRAINAGE SWALE
	STORM DRAIN LINE
	CENTERLINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	LIMIT OF WORK
	MATCHLINE
	ELEVATION REFERENCE
	SECTION REFERENCE
	DETAIL REFERENCE
	TITLES
	DIMENSION TO FACE OF MATERIAL OR CENTERLINE

MATERIALS LEGEND:

	TOPSOIL BACKFILL D-SOIL-PATT EARTH SCALE 1/4" = 1' COLOR 30
	UNDISTURBED SUBGRADE / COMPACTED SUBGRADE / SOIL D-SOIL-PATT EARTH SCALE 1/4" = 1' COLOR 30
	SAND / MORTAR D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	MULCH / ASPHALT BINDER COURSE D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	CAST-IN-PLACE CONCRETE D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	ARCHITECTURAL PRECAST CONCRETE D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	CONCRETE MASONRY UNIT D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	BRICK / ASPHALT SURFACE COURSE D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	BRASS / BRONZE / COPPER D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	STEEL D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	PLYWOOD D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	SHIM D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	PEA GRAVEL D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	EXCAVATED SOIL D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	CULTIVATED SOIL / SOIL BACKFILL D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	PLANTING SOIL MIX D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	COMPACTED SUBBASE D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	DRAINAGE GRAVEL D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	TERRAZZO D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	STONE D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	SEALANT & JOINT FILLER D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	PREFORMED JOINT FILLER D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	ALUMINUM D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	FINISHED WOOD D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	ROUGH WOOD D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	SHARP SCREENINGS / CONCRETE SAND D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30
	PLASTIC D-SOIL-PATT AIR-SAND SCALE 1/4" = 1' COLOR 30

GENERAL GRADING NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL EROSION CONTROL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION TO MAINTAIN STABLE AND SAFE EXCAVATIONS.
3. THE CONTRACTOR SHALL INSTALL TREE PROTECTION FENCE INDICATED ON THE DRAWINGS PRIOR TO COMMENCING GRADING WORK. LEAVE PROTECTION IN PLACE AND MAINTAIN UNTIL CONSTRUCTION WORK HAS BEEN COMPLETED AND ALL DANGER OF DAMAGE HAS PASSED OR AS OTHERWISE DIRECTED BY THE OWNER.
4. GRADING AND CONSTRUCTION IN PROXIMITY OF EXISTING TREES INDICATED ON THE DRAWINGS TO REMAIN OR WITHIN TREE PROTECTION AREAS SHALL BE DONE WITH EXTREME CARE SO AS NOT TO DAMAGE THE ROOT SYSTEM OF TREES AND TO COMPACT SOIL IN THE AREA.
5. NO GRADING AND CONSTRUCTION IS TO OCCUR WITHIN A 10 FOOT RADIUS FROM ANY TREE TRUNK.
6. FINISH GRADING IN TREE PROTECTION AREA INDICATED ON THE DRAWINGS SHALL BE DONE UNDER DIRECT SUPERVISION OF THE LANDSCAPE ARCHITECT IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT 48 HOURS PRIOR TO THIS SITE VISIT.

GENERAL LAYOUT NOTES:

1. BASE TOPOGRAPHICAL AND EXISTING CONDITIONS TAKEN FROM DRAWINGS FURNISHED BY KIMLEY HORN AND ASSOCIATES, CIVIL ENGINEER.
2. DRAWINGS PREPARED FROM CIVIL AND ARCHITECTURAL DRAWINGS, NOT AS-BUILT DATA PREPARED BY TVS ARCHITECTS, AND PREPARED BY KIMLEY HORN AND ASSOCIATES, CIVIL ENGINEER.
3. DO NOT SCALE THESE DRAWINGS.
4. UTILITY WORK IS NOT INDICATED ON THIS DRAWING. REFER TO CIVIL DRAWINGS FOR WORK RELATED TO UTILITIES.
5. ALL CURVES TO BE TRUE RADII WITHOUT STRAIGHT SEGMENTS.
6. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
7. DIMENSIONS ARE FROM BACK OF CURB, TO FACE OF WALL, TO OUTSIDE EDGE OF PAVEMENTS, FROM COLUMN CENTERLINES TO HARDSCAPE CENTERLINES, TO CENTERLINE OF PAVEMENTS, TO OUTSIDE EDGE OF PAVEMENTS, TO CENTERLINES OF STAIRS, FROM EDGE OF PAVEMENT TO FACE OF WALL.
8. CHANGES IN LAYOUT MAY BE MADE AT THIS TIME TO ACCOMMODATE DESIGN INTENT OR FIELD CONDITIONS. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.
9. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
10. NOTIFY THE OWNER OR LANDSCAPE ARCHITECT IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE DRAWINGS.
11. ALL WALLS, COLUMNS, SIDEWALKS, PATHWAYS, FENCES AND STAIRWAYS SHALL BE COMPLETELY LAID OUT AND STAKED WITH VISIBLE MARKERS. THE STAKES SHALL BE APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT 48 HOURS PRIOR TO SITE VISIT.
12. BENCH AND LITTER RECEPTACLE LAYOUT SHOWN IS APPROXIMATE. LAYOUT TO BE APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT.

SHEET ISSUE	NO	DATE	DESCRIPTION	BY
	03/01/2019	100% CONSTRUCTION DOCUMENTS		

SHEET TITLE
HARDSCAPE
IMPROVEMENTS

SHEET NO
HS-1

PROJ NO
017306.00

FULTON COUNTY LIBRARY SYSTEM

HAPEVILLE LIBRARY

525 KING ARNOLD STREET
HAPEVILLE, GA



A

SHEET NO. PROJ. NO.
017506 00

NO	DATE	DESCRIPTION	BY
	03/01/2019	100% CONSTRUCTION DOCUMENTS	

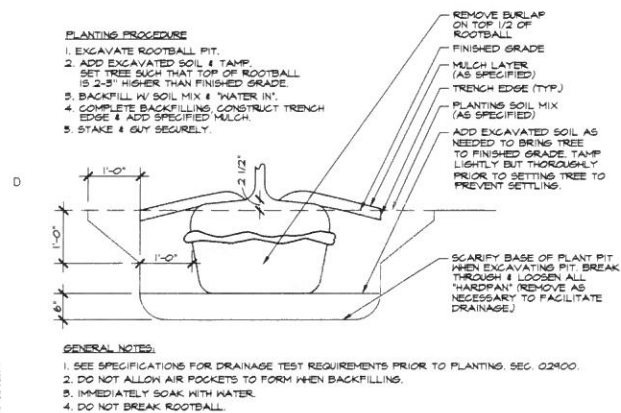
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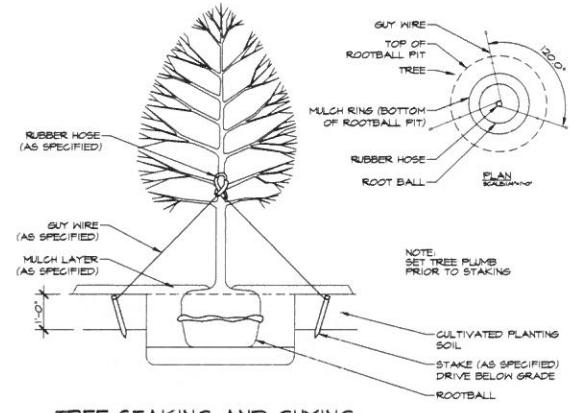
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info@higor.com
800-967-9676



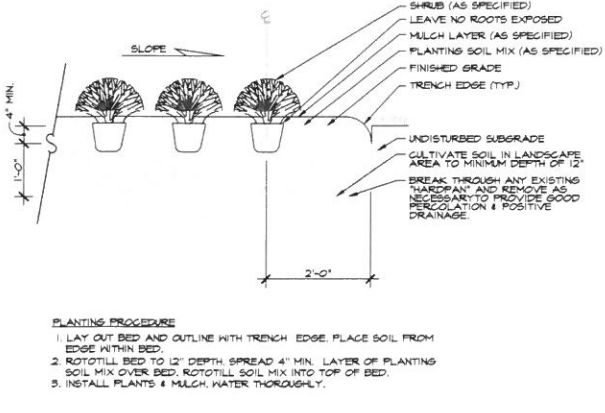
225 KING ARNOLD STREET
HAPEVILLE, GA



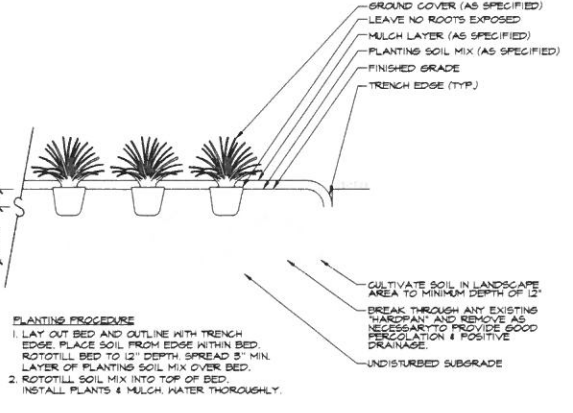
A TYPICAL TREE ROOTBALL PIT
LS-2 SCALE: 3/4"=1'-0"
FILE NAME: LSP001



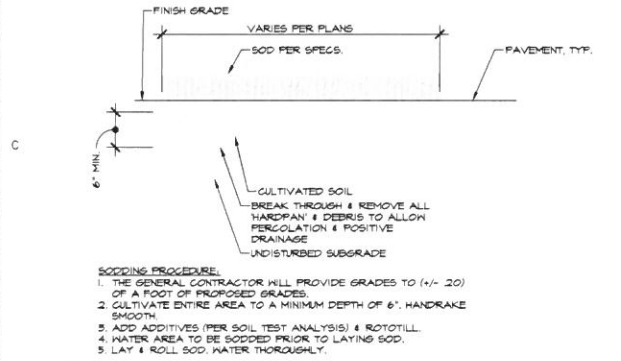
B TREE STAKING AND GUYING IN CULTIVATED AND MULCHED PLANTING AREA
LS-2 SCALE: 1/2"=1'-0"
FILE NAME: LSP002



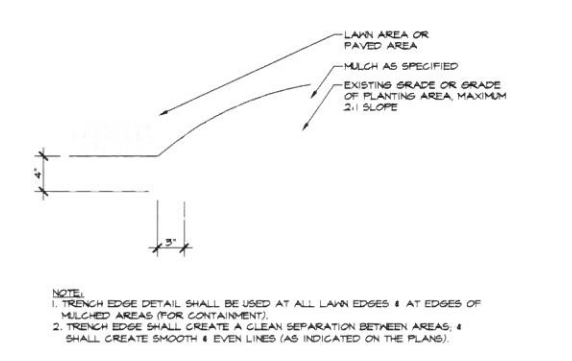
C SHRUB PLANTING
LS-2 SCALE: 3/4"=1'-0"
FILE NAME: LSP003



D GROUND COVER PLANTING
LS-2 SCALE: 3/4"=1'-0"
FILE NAME: LSP004



E SOD INSTALLATION
LS-2 SCALE: 1/2"=1'-0"
FILE NAME: LSP005



F TRENCH EDGE DETAIL
LS-2 SCALE: 1/2"=1'-0"
FILE NAME: LSP006

PLANT SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	CAL PER	HEIGHT	SPREAD	ROOT	COMMENT
5	Quercus sp.	White Oak	3.5-4	6-8	8-9	8-9	Single straight trunk, dense, inform branching, single central leader
10	Distylium virgatum	White Oak	3.5-4	6-8	8-9	8-9	Dense form, good color, well rooted in pot
10	Quercus sp.	White Oak	3.5-4	6-8	8-9	8-9	Dense form, good color, well rooted in pot
10	Quercus sp.	White Oak	3.5-4	6-8	8-9	8-9	Dense form, good color, well rooted in pot
10	Quercus sp.	White Oak	3.5-4	6-8	8-9	8-9	Dense form, good color, well rooted in pot
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10	Quercus sp.	White Oak	3.5-4	6-8	8-9	8-9	Dense form, good color, well rooted in pot

7/20/2019 09:12:04

GENERAL PLANTING NOTES:

- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MATERIAL QUANTITIES SHOWN ON THESE DRAWINGS BEFORE PRICING THE WORK.
- PROVIDE PLANT MATERIALS TRUE TO SPECIES AND VARIETY COMPLYING WITH RECOMMENDATIONS OF 'AMERICAN STANDARD FOR NURSERY STOCK' BY THE AMERICAN ASSOCIATION OF NURSERY MEN.
- THE LANDSCAPE CONTRACTOR SHALL COMPLETELY WARRANTY ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE WARRANTY PERIOD (AS DIRECTED BY THE OWNER).
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO DATE OF SUBSTANTIAL COMPLETION OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL THE PLANT LIST SPECIFICATIONS.
- LOCATE AND VERIFY ALL UTILITY LOCATIONS AND EXISTING STRUCTURES IN AND AROUND THE SITE PRIOR TO WORK. MAINTAIN EXISTING UTILITIES AND STRUCTURES AND PROTECT AGAINST DAMAGE DURING THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES, STRUCTURES, PAVING AND/OR WORK OF OTHER TRADES RESULTING FROM LANDSCAPE CONSTRUCTION.
- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL FREE OF DISEASES, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS AND/OR DISFIGUREMENT.
- WATER AND WATER TRANSPORTATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND THE OWNER BEFORE, DURING AND UNTIL DATE OF SUBSTANTIAL COMPLETION OF THE WORK.
- ALL PLANTS MUST BE CONTAINER-GROWN (CONT.) OR BALLED AND BURLAPPED (B & B) AS INDICATED IN THE PLANT LIST.
- ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- 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.
- THE LANDSCAPE ARCHITECT WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
- ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DRAWINGS.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, MOVING, ETC.) OF PLANTING AREAS AND LAWNS UNTIL DATE OF SUBSTANTIAL COMPLETION.

mc millan | pazdan | smith
ARCHITECTURE

525 KING ARNOLD STREET
HAPEVILLE, GA

REGISTERED
No. 902
LANDSCAPE ARCHITECT
ROBERT T. HUGHES

KING ARNOLD STREET
CITY OF HAPEVILLE, FULTON COUNTY, GEORGIA
TAX PARCELS: 14 0095



HAPEVILLE LIBRARY
TOTAL SITE AREA: 19.02 AC.
ZONING: V - VILLAGE

ARCHITECT
MCMILLAN PAZDAN SMITH ARCHITECTURE
434 MARIETTA STREET NW SUITE 105
ATLANTA, GEORGIA 30313
PHONE: 678-251-4602
CONTACT: JOE ALCOCK

CIVIL ENGINEER
ATWELL, LLC
1255 LAKES PKWY
BUILDING 100, SUITE 120
LAWRENCEVILLE, GA 30043
PHONE: (866) 850-4200
CONTACT: THEO STONE

SURVEYOR
ATWELL
1255 LAKES PARKWAY
BUILDING 100, SUITE 120
LAWRENCEVILLE, GA 30043
PHONE: (866) 850-4200
CONTACT: DAVID ANDERSON

OWNER
ATLANTA-FULTON PUBLIC LIBRARY
ONE MARGARET MITCHELL SQUARE
ATLANTA, GA 30303
PHONE:404-762-4065

SUBMITTAL DATE
SUBMITTAL - 2/19/19

PLANNING AND ZONING
CITY OF HAPEVILLE
3468 N. FULTON AVE
HAPEVILLE, GA 30354
PHONE: 404-669-2100
CONTACT: LEM EUBANKS

WATER & SEWER
CITY OF HAPEVILLE
3468 N. FULTON AVE.
HAPEVILLE, GA 30354
PHONE: 404-669-2100



PROPOSED LIBRARY WITH ASSOCIATED PARKING AND SUBSURFACE
INFRASTRUCTURE AS REQUIRED.

THE APPROVAL OF THE PLANS AND THE ISSUANCE OF THIS LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRIATE OPERATIONS FOR THIS ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITTING HAVE BEEN MET. THE ONUS IS ON THE OWNER/DEVELOPER/BUILDER TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY TO OPERATE FROM THIS POINT IN AN APPROPRIATE AND LEGAL MANNER. PLAN APPROVAL OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, STANDARDS, OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.

ATTENTION IS DRAWN TO THE FACT THAT THE SCALE OF THESE DRAWINGS MAY HAVE BEEN DISTORTED DURING THE REPRODUCTION PROCESS.

IF ANY CONFLICTS, DISCREPANCIES OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED



Sheet List Table	
Sheet Number	Sheet Title
C-0	COVER
C-0.1	GEN NOTES
1 OF 1	SURVEY BY ATWELL
C-1.0	DEMOLITION PLAN
C-2.0	ESPCP PHASE 1
C-2.1	ESPCP PHASE 2
C-2.2	ESPCP PHASE 3
C-2.3	ESPCP NOTES
C-2.4	ESPCP NOTES
C-2.5	EROSION DETAILS
C-2.6	EROSION DETAILS
C-2.7	EROSION DETAILS
C-2.8	EROSION DETAILS
C-3.0	SITE PLAN
C-4.0	GRADING PLAN
C-5.0	UTILITY PLAN
C-6.0	STORM PROFILES AND CROSS SECTIONS
C-7.0	CONSTRUCTION DETAILS
C-7.1	CONSTRUCTION DETAILS
C-7.2	CONSTRUCTION DETAILS
C-7.3	CONSTRUCTION DETAILS

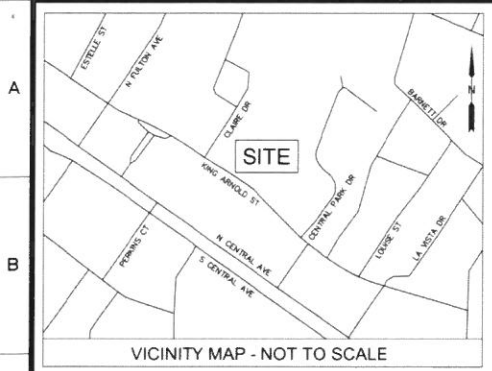
COVER

TE 2/19/19

DISCUSSION



DRAWN BY: TS	TOM RIGHT
CHECKED BY: TS	
PROJECT MANAGER: THEO STONE	
# : 17003047	
CODE: FILE CODE	
SHEET NO. 60	



DATUMS

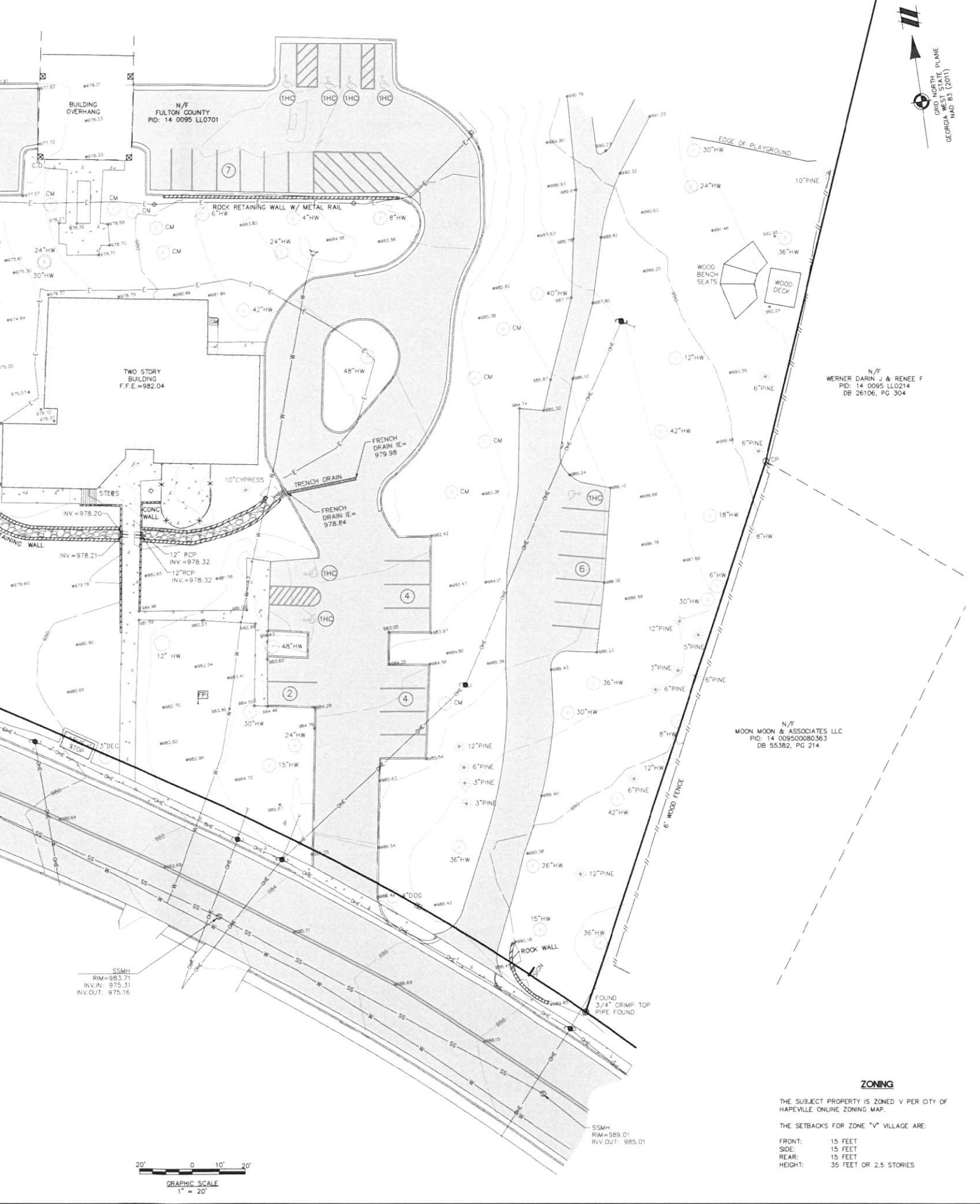
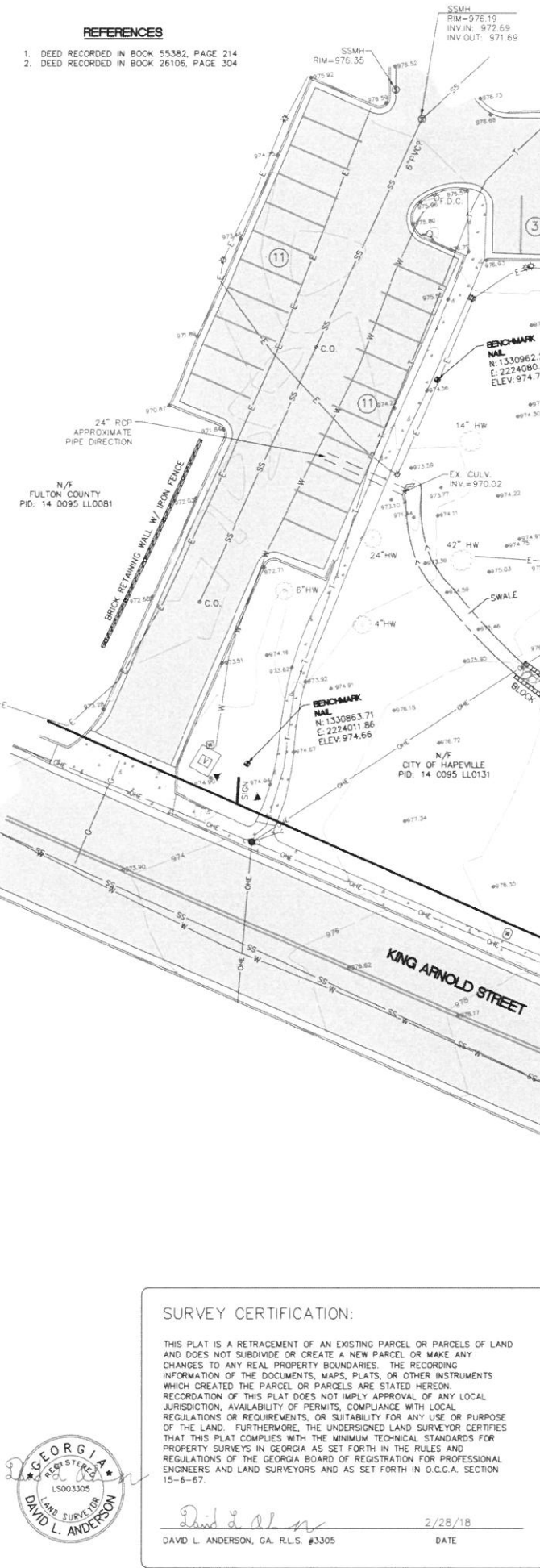
Horizontal: Grid North, NAD83, West Zone (North American Datum of 1983), U.S. Survey Foot, Fulton County, Georgia.

Vertical: NAVD88 (North American Vertical Datum of 1988)

Geoid: Geoid12A Conus

- SURVEY NOTES**
- All easements and rights of way of which the surveyor has knowledge are shown hereon; others may exist of which the surveyor has no knowledge and of which there is no observable evidence.
 - The property shown hereon is subject to all easements and restrictions of record both written and unwritten.
 - According to the Flood Insurance Rate Map (FIRM) for Fulton County, Georgia, (Community-panel number 13121C 0367 F, dated Sept. 18, 2013), the subject property lies within Zone X, defined as "areas determined to be outside the 0.2% annual chance floodplain."
 - The locations of underground utilities shown hereon are based on visible structures and maps and/or field located markings provided by the utility companies servicing that utility and are approximate only. The property shown hereon may be served by underground utilities which are not shown hereon. All Utility Companies should be contacted before beginning any design or construction.
 - North arrow and bearings shown hereon are based on GA West Zone - NAD 83 adjusted 2011, Using Global Positional System (GPS) and obtained by RTK observations on 2-12-2018 using the Trimble VRS System. All distances are horizontal ground measurements expressed in U.S. Survey Feet.
 - The field data upon which this plot is based has a closure precision of one foot in 20,000 feet and an angular error of 4 seconds per angle point and was adjusted using the least squares method.
 - Equipment used for measurement:
Angular: Trimble S6 Robotic Total Station
Linear: Trimble S6 Robotic Total Station
GPS: Trimble R6 GPS Receiver
 - This plot was prepared for the exclusive use of the person, persons, or entity named hereon. This Plot does not extend to any unnamed person, persons or entity without express written certification by the surveyor naming said person, persons, or entity.
 - State, County, & Local Buffers and Setbacks might exist on the subject property that are not shown hereon.
 - Contours and spot elevations shown hereon are based on U.S.G.S. datum (NAVD 88). Site Benchmarks are shown hereon.
 - This survey is not valid without the Original Signature and Seal of a Georgia Licensed Surveyor.
 - There was no observable evidence of Human Burials or Cemeteries on the Subject Property at the time of the field survey.
 - Atwell LLC does not warrant the existence or nonexistence of any wetlands or hazardous wastes located on the Subject Property.

LEGEND	
	SIGN
	GROUND LIGHT
	LIGHT POLE
	SPOT ELEVATION
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	WATER VAULT
	STORM SEWER MANHOLE
	SANITARY SEWER MANHOLE
	CLEANOUT
	FLAG POLE
	UTILITY POLE
	GUY WIRE
	ELECTRIC BOX
	BOLLARD
	GAS VALVE
	GAS METER
	PARKING COUNT
	HANDICAP PARKING COUNT
	HARDWOOD TREE
	PINE TREE
	BENCHMARK
	PROPERTY CORNER
	IRON PIN FOUND
	R/W MARKER
	MEASURED DISTANCE
	CALCULATED DISTANCE
	RECORD DISTANCE
	UNDERGROUND TELEPHONE
	STORM SEWER LINE
	SANITARY SEWER LINE
	WATER LINE
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	CHAINLINK FENCE
	WROUGHT IRON FENCE
	WOODEN FENCE
	CORRUGATED METAL PIPE
	REINFORCED CONCRETE PIPE
	CRIMP TOP PIPE
	IRON ROD FOUND
	FINISHED FLOOR ELEVATION
	FIRE DEPARTMENT CONNECTION
	SANITARY SEWER MANHOLE



Know what's below.
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL OTHER UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. WITHIN THE OWNER, THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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ATWELL
866.850.4200 www.atwell-group.com
1255 LAKE DANIELLE, CA 30043
770.423.0807
LSP# 001218

LOCATED IN
LAND LOT 95
14th DISTRICT
FULTON COUNTY, GEORGIA

TOPOGRAPHIC SURVEY
HAPEVILLE BRANCH LIBRARY
HAPEVILLE, GEORGIA
FOR
MCMILAN PAZDAN SMITH ARCHITECTURE
ATLANTA, GEORGIA

DATE
FEBRUARY 13, 2018

REVISIONS

SCALE	0	10	20
1" = 20 FEET			
DR.	MGB	CH.	SJ
PM.	D. ANDERSON		
BOOK	---		
JOB	17003047		
SHEET NO.	1 OF 1		

CAD FILE: 17003047-HAPEVILLE.DWG



CAUTION NOTE:

THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE UNDERGROUND UTILITIES, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION OF ALL UTILITIES SHOWN AS WELL AS THOSE NOT SHOWN WITHIN THE CONSTRUCTION LIMITS. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CAUTION NOTE:

THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE UNDERGROUND UTILITIES, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION OF ALL UTILITIES SHOWN AS WELL AS THOSE NOT SHOWN WITHIN THE CONSTRUCTION LIMITS. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.





**Know what's below.
Call before you dig.**

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OCCASIONED BY THE CONTRACTOR'S FAILURE TO SAFELY LOCATE AND PROTECT ANY AND ALL UNDERGROUND UTILITIES.

NOTICE

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE PROVIDER SHALL BE EXPECTED TO ASSURE ANY RESPONSIBILITY FOR THE SAFETY OF THE WORK, OR PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR ANY OTHER PERSONS.

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**24 HOUR
EMERGENCY CONTACT**

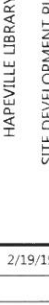
JOE ALCOCK
678-251-4602



866.850.4200 www.atwell-group.com

1255 LAMES PARK, BUILDING 100, SUITE 120
LAURENSVILLE, GA 30043
866.850.4200

COA #FE 003804

LL95 14TH DISTRICT KING ARNOLD STREET CITY OF HAPEVILLE FULTON COUNTY, GEORGIA	HAPEVILLE LIBRARY SITE DEVELOPMENT PLANS ESCP PHASE 2										
DATE	2/19/19										
REVISIONS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> </table>										
											
OSWCC LEVEL # CERT NO. 0000021547 0 10' 20' SCALE 1"=20'											
DRAWN BY: TS CHECKED BY: TS PROJECT MANAGER: THEO STONE JOB # : 17003047 FILE CODE: FILE CODE SHEET NO. C-2.1											

1. THE CHECKLIST HAS BEEN PROVIDED ON SHEET C-2.5
2. SIGNATURE, SEAL, AND GSWCC LEVEL II CERTIFICATION NUMBER ARE SHOWN ON ALL SHEETS
3. THE DISTURBANCE FOR THIS PROJECT IS LESS THAN 50 ACRES AT ANY ONE TIME
4. 24-HOUR CONTACT:
NAME: JOE ALCOCK
PHONE: 678-251-4602
5. PRIMARY PERMITTEE:
ATLANTA-FULTON PUBLIC LIBRARY
ONE MARGARET MITCHELL SQUARE
ATLANTA, GEORGIA 30303
404-762-4065
6. TOTAL SITE AREA: 19.02
TOTAL DISTURBED AREA: 0.94
7. CONSTRUCTION EXT IS LOCATED AT:
LATITUDE: 33°39'30.32"N
LONGITUDE: 84°24'34.76"W
8. INITIAL PLAN DATE IS SHOWN ON ALL SHEETS. ANY PLAN REVISIONS ARE SHOWN ON THE COVER SHEET AND THE SHEET AFFECTED BY THE REVISION.
9. CONSTRUCTION ACTIVITY DESCRIBING EXISTING LAND USE IS EASTING HAPVILLE LIBRARY BRANCH. CONSTRUCTION WILL INCLUDE GRADING AND CONSTRUCTION OF NEW LIBRARY AND ASSOCIATED PARKING AND SUBSURFACE INFRASTRUCTURE AS REQUIRED

10. VICINITY MAP IS SHOWN ON C531
11. THE INITIAL RECEIVING WATER IS UNPAVED TRIBUTARY OF SOUTH RIVER. SENSITIVE ADJACENT AREAS INCLUDE (NO SENSITIVE ADJACENT AREAS)
12. 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.

2/19/19
DATE
DESIGN PROFESSIONAL'S SIGNATURE
DESIGN PROFESSIONAL'S NAME
GA PE #
GSWCC CERT #

13. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA," PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED. PROVISIONS 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 NOTES PERMIT NO. PERMIT #

2/19/19
DATE
DESIGN PROFESSIONAL'S SIGNATURE
DESIGN PROFESSIONAL'S NAME
GA PE #
GSWCC CERT #

14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMPs WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

1. I CERTIFY THAT THE SITE WAS VISITED WITHIN SEVEN (7) DAYS OF THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMPs.

2/19/19
DATE
DESIGN PROFESSIONAL'S SIGNATURE
DESIGN PROFESSIONAL'S NAME
GA PE #
GSWCC CERT #

INSPECTION REVEALED THE FOLLOWING DEFICIENCIES FROM THE APPROVED ES&PC PLAN:

THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF THE RECEIPT OF THE INSPECTION REPORT UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

15. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25' OR 50' UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS

(I) EXCEPT AS PROVIDED IN PART IV(B) BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

- (1) PUBLIC DRINKING WATER SYSTEM RESERVOIRS.
- (2) STREAM CROSSINGS FOR WATER LINES PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER.
- (3) STREAM CROSSINGS FOR SEWER LINES PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER.
- (4) BUFFER CROSSINGS FOR FENCES PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER.
- (5) STREAM CROSSINGS FOR AERIAL UTILITY LINES PROVIDED THAT: (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET; (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER; (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED); AND (D) FUNCTIONAL NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE. ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE AND JUSTIFICATION.

(I) NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG STATE WATERS CLASSIFIED AS TROUT STREAMS EXCEPT WHEN APPROVED IN WRITING BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED PROVIDED HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS TROUT STREAMS WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE EXEMPT AT THE DISCRETION OF THE PERMITTEE. PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPO AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TRIBUTARY STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

- (1) PUBLIC DRINKING WATER SYSTEM RESERVOIRS.
- (2) STREAM CROSSINGS FOR WATER LINES PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER.
- (3) STREAM CROSSINGS FOR SEWER LINES PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER.
- (4) BUFFER CROSSINGS FOR FENCES PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER.
- (5) STREAM CROSSINGS FOR AERIAL UTILITY LINES PROVIDED THAT: (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET; (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER; (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED); AND (D) FUNCTIONAL NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE. ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE AND JUSTIFICATION.

16. THERE ARE NO BUFFER ENCROACHMENTS ON THIS SITE

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

17. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCTS ARE STORED AND THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE ES&PC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THIS PORTABLE UNIT. A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE INSTALLED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BASINS OR SPECIALLY DESIGNED PLASTIC CONTAINERS AROUND THE BASIN, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN, GRADING PHASE SHEET C48, BY THE CONTRACTOR ONCE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY / SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT

19. 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.

20. 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.

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

22. STORM WATER DOES NOT DISCHARGE INTO AN UNPAVED STREAM SEGMENT. SEE THIS SHEET FOR REQUIREMENTS.
23. THERE IS NOT A TMDL IMPLEMENTATION PLAN FOR THE RECEIVING WATERS.
24. THIS PROJECT DOES ALLOW CONCRETE WASH-DOWN ON SITE. WASH-OUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. BMPs FOR CONCRETE WASH-DOWN INCLUDE CONCRETE CLEANOUT AREA.
25. SOIL CLEANUP AND CONTROL PRACTICES
- A. LOCAL STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- B. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE: BROOMS, RAGS, RUBBER MATS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- C. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- D. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- E. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AFTER THE SPILL OCCURS AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.
- F. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AFTER THE SPILL OCCURS.
- G. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPO WILL BE CONTACTED WITHIN 24 HOURS.
- H. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1200 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 600 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT / MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

26. PERMANENT VEGETATION, A WATER QUALITY DEVICE, AND A STORMWATER MANAGEMENT SYSTEM TO BE ESTABLISHED DURING CONSTRUCTION TO COLLECT POLLUTANTS IN STORMWATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

27. PRACTICES USED TO REDUCE POLLUTANTS IN STORMWATER DISCHARGES INCLUDE SILT FENCE, CONSTRUCTION EXITS AND RETROFITS TO FURTHER REDUCE POLLUTANTS. MATERIALS THAT ARE POTENTIAL HAZARDS SHALL BE IDENTIFIED PRIOR TO LOCATING ON SITE AND PERSONNEL WILL BE TRAINED BY THE CONTRACTOR TO HANDLE SPILLS OR LEAKS. POLLUTANTS WILL BE STORED IN SPECIFIC AND CONTROLLED AREAS BY THE CONTRACTOR.

28. ANTICIPATED ACTIVITY SCHEDULE IS SHOWN ON THIS SHEET

29. INSPECTIONS PERMITTEE REQUIREMENT

EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY SHALL HAVE TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

2. MEASURE RAINFALL, ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE NEXT BUSINESS DAY AND WORKING DAY. HOWEVER, IF A STORM OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) AREAS USED FOR STORAGE OF MATERIALS THAT HAVE NOT UNDERGONE FINAL STABILIZATION. THE PLAN, APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPO, THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.

5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN COMPLIANCE WITH PART IV.D.4.(3) SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPO. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

30. 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. THE FOLLOWING ARE THE REQUIREMENTS FOR SAMPLING:

A. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION OR

B. THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE NECESSARY AS DESCRIBED 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 1:30 PM EXCEPT ON NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS PROHIBITED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION.
- B. IN ADDITION TO ABOVE, 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 EIGHT (8) DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION.
- 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 INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.
- D. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.
- E. *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND

4. NON-STORM WATER DISCHARGES, EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2 OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

REPORTING

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPO AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT UPON WRITTEN NOTIFICATION. EPO MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPO. THE SAMPLING RESULTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING RESULTS MUST BE SUBMITTED TO EPO UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE TO THE APPROPRIATE DISTRICT OFFICE OF THE EPO ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- A. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS.
- B. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS.
- C. THE DATE(S) ANALYSES WERE PERFORMED.
- D. THE TIME(S) ANALYSES WERE INITIATED.
- E. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES.
- F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED, AND THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH-SHES INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
- H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

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 EPO.
 - B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS 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. 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.(1)(C) OF THIS PERMIT.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL EROSION AND MAINTENANCE RECORDS AND ALL ORIGINAL STOP CHART RECORDINGS FOR CONTINUOUS MONITORING, INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL, PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPO AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

32. SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH MET-HODS AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED. THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT," EPA 833-B-92-001, AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPO.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, WELL-CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL, AUTOMATIC OR RISING STAKE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPO AS SPECIFIED IN PART IV.E. C.

SAMPLING POINTS.

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

- A. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE INTO THE RECEIVING WATER(S). THE DISCHARGE FROM THE PERMITTED UPSTREAM AT THE SITE BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- B. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY, I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE, BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
- C. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
- D. CARE SHOULD BE TAKEN TO AVOID STRIKING THE BOTTOM SEDIMENTS IN THE RECEIVING WATERS OR IN THE OUTFALL STORM WATER CHANNEL.
- E. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- F. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- G. PERMITTEES DO NOT HAVE TO SAMPLE STREAMS THAT FLOW ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT FOR PURPOSES OF THIS SECTION. STABILIZED SHAUL 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 EPO FOR WASTE DISPOSAL. LOOK OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP-RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION, OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR CULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR CULTURAL 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 II.D.3. OR II.D.4. WHICHEVER IS APPLICABLE.

33. SEE APPENDIX B THIS SHEET FOR NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES

34. SET USGS MAP THIS SHEET FOR SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS

35. USE CONTROLS AND SHEET

36. GRAPHIC SCALE AND NORTH ARROW ARE SHOWN ON ALL PLAN VIEW SHEETS

37. EXISTING AND PROPOSED CONTOURS ARE SHOWN ON ALL EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN SHEETS

38. ALTERNATIVE BMPs ARE NOT PROPOSED FOR THIS PROJECT

39. THERE WAS NO USE OF ALTERNATIVE BMPs FOR APPLICATION TO THE EQUIVALENT BMP LIST ON THIS PROJECT

40. NO REQUIRED BUFFERS AS THERE ARE NO STATE WATERS ON OR WITHIN 200 FEET OF THE PROJECT

41. THERE ARE NO WETLANDS NOR STATE WATERS ON OR WITHIN 200 FEET OF THE PROJECT SITE

42. CONTRIBUTING DRAINAGE BASINS AND AREAS ARE SHOWN ON SHEET NA

43. A HYDROLOGY REPORT HAS BEEN SUBMITTED

44. ESTIMATED PRE-CONSTRUCTION RUNOFF COEFFICIENT: 0.65

45. ESTIMATED POST-CONSTRUCTION RUNOFF COEFFICIENT: 0.65

46. STORM DRAIN PIPE VELOCITIES, WEIR VELOCITIES, AND OUTLET PROTECTION ARE SHOWN ON SHEET NA

47. SOIL SERIES ARE SHOWN ON SHEET C2.0

48. THE LIMITS OF DISTURBANCE ARE SHOWN ON SHEETS C2.0-C2.2

49. TEMPORARY SEDIMENT BASINS ARE SHOWN ON SHEETS C2.0-C2.2. BMPs ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL, FOR EROSION AND SEDIMENT CONTROL, IN GEORGIA

50. SEE SHEETS C2.5-C2.8 FOR DETAILED DRAWINGS

51. VEGETATIVE PLAN IS ON SHEETS C2.0-C2.2. DETAILED DRAWINGS, INCLUDING SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, LIME, AND MULCHING RATES, ARE ON SHEET C2.7

52. BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS WILL BE COVERED USING MEASURES, SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS, IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

33. SEE APPENDIX B THIS SHEET FOR NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES

34. SET USGS MAP THIS SHEET FOR SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS

35. USE CONTROLS AND SHEET

36. GRAPHIC SCALE AND NORTH ARROW ARE SHOWN ON ALL PLAN VIEW SHEETS

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50. SEE SHEETS C2.5-C2.8 FOR DETAILED DRAWINGS

51. VEGETATIVE PLAN IS ON SHEETS C2.0-C2.2. DETAILED DRAWINGS, INCLUDING SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, LIME, AND MULCHING RATES, ARE ON SHEET C2.7

52. BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS WILL BE COVERED USING MEASURES, SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS, IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND

PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

1. QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM THE ELEMENTS, WHERE POSSIBLE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
4. PRODUCT MIXING, DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE, AND DISPOSAL.

PAINTS / FINISHES / SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

FERTILIZER / HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATION OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY WELDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATION. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURE FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOB SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

2. CONSTRUCTION ACTIVITIES. THIS PERMIT AUTHORIZES, SUBJECT TO THE CONDITIONS OF THIS PERMIT

3. A. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING ON OR BEFORE AND CONTINUING AFTER THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES) EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART 1(C), AND
- B. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE 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 EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES).
- C. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH MINOR LAND DISTURBING ACTIVITIES (SUCH AS HOME GARDENS AND INDIVIDUAL HOME LANDSCAPING REPAIRS, MAINTENANCE WORK, FENCES AND OTHER RELATED ACTIVITIES) WHICH RESULT IN MINOR SOIL EROSION CONDUCTED OUTSIDE OF THE 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS REQUIRING A BUFFER AND OUTSIDE OF THE 50 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS CLASSIFIED AS "TROUT STREAMS" REQUIRING A BUFFER ON INDIVIDUAL RESIDENTIAL LOTS SOLD TO HOMEOWNERS WHERE ALL PLANNED CONSTRUCTION ACTIVITIES ON THAT LOT HAVE BEEN COMPLETED AND HAVE UNDERGONE FINAL STABILIZATION.
4. MOVED STORM WATER DISCHARGES: 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 INDUSTRIAL 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 AN INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT; AND
- C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION IS OCCURRING ARE IN COMPLIANCE WITH THE PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.
5. LIMITATIONS ON COVERAGE: THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:
- A. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.
- B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART II.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.2 (NON-STORM WATER DISCHARGES) OF THIS PERMIT.
- C. STORM WATER DISCHARGES AND RUNOFF FROM INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN INDIVIDUAL PERMIT OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND
- D. STORM WATER DISCHARGES AND RUNOFF FROM CONSTRUCTION SITES THAT THE DNR HAS DETERMINED TO BE AND MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

[illegible]

A DEADLINES FOR NOTIFICATION

1. EXCEPT AS PROVIDED IN PART II.A.2. II.A.3. AND II.A.5. OWNERS OR OPERATORS OR BOTH WHO INTEND TO OBTAIN COVERAGE UNDER THIS GENERAL PERMIT FOR STORM WATER DISCHARGES FROM A CONSTRUCTION SITE (WHERE CONSTRUCTION ACTIVITIES BEGIN AFTER ISSUANCE OF THIS PERMIT), SHALL SUBMIT A NOTICE OF INTENT (NOI) IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PART AT LEAST FORTY (40) DAYS BEFORE BEGINNING WORK AT THE CONSTRUCTION SITE.
2. FOR SITES WHERE CONSTRUCTION ACTIVITIES SUBJECT TO THIS PERMIT ARE OCCURRING ON THE EFFECTIVE DATE OF THIS PERMIT, THE OWNER OR OPERATOR OR BOTH SHALL SUBMIT AN NOI IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PART NO LATER THAN SIXTY (60) DAYS AFTER THE EFFECTIVE DATE OF THIS PERMIT.
3. A DISCHARGER IS NOT PRECLUDED FROM SUBMITTING AN NOI IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PART AFTER THE DATES PROVIDED IN PARTS II.A.1. OR II.A.2. OF THIS PERMIT. IN SUCH INSTANCES, EPA MAY BRING AN ENFORCEMENT ACTION FOR FAILURE TO SUBMIT AN NOI IN A TIMELY MANNER OR FOR ANY UNAUTHORIZED DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES AT THE CONSTRUCTION SITE AFTER THE EFFECTIVE DATE OF THIS PERMIT.
4. WHERE AN OWNER OR AN OPERATOR OR BOTH CHANGES AFTER AN NOI HAS BEEN FILED, THE SUBSEQUENT OWNER OR OPERATOR OR BOTH MUST FILE A NEW NOI IN ACCORDANCE WITH THIS PART, AT LEAST SEVEN (7) DAYS BEFORE BEGINNING WORK AT THE FACILITY/CONSTRUCTION SITE. WHERE AN OWNER OR OPERATOR CHANGES AFTER THE FACILITY/CONSTRUCTION SITE HAS BEEN FILED AT THE FACILITY/CONSTRUCTION SITE, SUCH PARTY MUST FILE A NEW NOI IN ACCORDANCE WITH THIS PART BY THE EARLIER TO OCCUR OF (A) SEVEN (7) DAYS BEFORE BEGINNING WORK AT THE FACILITY/CONSTRUCTION SITE OR (B) THIRTY (30) DAYS FROM ACQUIRING LEGAL TITLE TO THE FACILITY/CONSTRUCTION SITE, STABILIZATION AND BARRIER INSTALLATION AND MAINTENANCE MEASURES AT THE CONSTRUCTION SITE. BY THE SUBSEQUENT OWNER OR OPERATOR, MAY OCCUR IN ADVANCE OF FILING A NEW NOI, WITHOUT VIOLATION OF THIS PERMIT.
5. FOR SITES WHERE CONSTRUCTION ACTIVITIES WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE THAT IS REQUIRED AS A CONDITION OF THE GENERAL PERMIT, THE OWNER OR OPERATOR OR BOTH SHALL SUBMIT A NOTICE OF INTENT TO THE APPROPRIATE EPA DISTRICT OFFICE WITHIN THREE (3) DAYS OF COMMENCEMENT OF SAID CONSTRUCTION ACTIVITIES. THE OWNER OR OPERATOR OR BOTH SHALL SUBMIT THE NOI TO THE APPROPRIATE EPA DISTRICT OFFICE AS SOON AS POSSIBLE AFTER THE STORM OR EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND BEFORE THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND SHALL SUBMIT THE PLAN IN ACCORDANCE WITH PART IV.A.6.

NOTES ARE TO BE SUBMITTED BY RETURNED CERTIFIED MAIL (OR SIMILAR SERVICE) TO BOTH THE APPROPRIATE EDP DISTRICT OFFICE ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT AND TO THE LOCAL ISSUING AUTHORITY IN JURISDICTIONS AUTHORIZED TO ISSUE A LAND DISTURBANCE ACTIVITY PERMIT FOR THE PERMITTEE'S CONSTRUCTION SITE PURSUANT TO C.G.S. § 2-7, ET SEQ. IF AN ELECTRONIC SUBMITTAL SERVICE IS PROVIDED BY EDP THEN THE NOI MAY BE SUBMITTED ELECTRONICALLY SO LONG AS A PAPER COPY IS ALSO SUBMITTED BY RETURN RECEIPT OR SIMILAR SERVICE. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY WITHIN 10 BUSINESS DAYS OF COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION NOTIFICATION IS ISSUED IN ACCORDANCE WITH PART V.

ANY APPLICABLE FEES SHALL BE SUBMITTED BY THE PRIMARY PERMITTEE IN ACCORDANCE WITH RULES AND REGULATIONS FOR WATER QUALITY CONTROL. RULES PROMULGATED BY THE BOARD OF NATURAL RESOURCES BY SUBMITTING AN NOI FOR COVERAGE UNDER THIS PERMIT THE PRIMARY PERMITTEE AGREES TO PAY ANY FEES REQUIRED NOW OR IN THE FUTURE BY SUCH RULES AUTHORIZED UNDER O.C.G. SECTION 12-5-231(A)(5), WHICH ALLOWS THE BOARD OF NATURAL RESOURCES TO ESTABLISH A FEE SYSTEM. FEES MAY BE ASSESSED ON LAND DISTURBING ACTIVITY PROPOSED TO OCCUR ON OR AFTER THE EFFECTIVE DATE OF THIS PERMIT AND SHALL BE PAID IN ACCORDANCE WITH SUCH RULES.

UPON ISSUANCE OF A NEW OR DIFFERENT GENERAL PERMIT FOR SOME OR ALL OF THE STORM WATER DISCHARGES COVERED BY THIS PERMIT, THE PERMITTEE IS REQUIRED TO NOTIFY THE EPD OF THEIR INTENT TO BE COVERED BY THE NEW OR DIFFERENT GENERAL PERMIT. THE PERMITTEE MUST SUBMIT A NEW NOTICE OF INTENT IN ACCORDANCE WITH THE NOTIFICATION REQUIREMENTS OF THE NEW OR DIFFERENT GENERAL PERMIT.

A. PROHIBITION ON NON-STORM WATER DISCHARGES

1. EXCEPT AS PROVIDED IN PART I.C.2. AND III.A.2., ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER.
2. THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7. DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE SPRINGS, UNCONTAMINATED GROUND WATER AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

B. RELEASES IN EXCESS OF REPORTABLE QUANTITIES

1. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED. THIS PERMIT DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §512-1-42 ET SEQ.), 40 CFR PART 117 AND 40 CFR PART 302, WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIALS OR RELEASES ACT (O.C.G.A. §512-1-42, 2) OR 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPI AT (404) 556-1863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §512-1-42 ET SEQ.), 40 CFR 117 AND 40 CFR 302 AS SOON AS EHS&H HAS KNOWLEDGE OF THE DISCHARGE.
2. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.

1. BEST MANAGEMENT PRACTICES, AS SET FORTH IN THIS PERMIT, ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES, AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL," IN GEORGIA (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND IS DEVELOPED. THE MANUAL IS INCORPORATED BY REFERENCE INTO THIS PERMIT. VIOLATIONS OF THE PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART B.I.3 AND PART D.1.

2. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THIS PERMIT. EACH DAY ON WHICH THE PERMITTEE IS REQUIRED TO MAINTAIN BEST MANAGEMENT PRACTICES, BUT SUCH MAINTENANCE ACTIVITIES SHALL NOT BE CONSIDERED A VIOLATION FOR THE PURPOSES OF THIS PARAGRAPH IF DURING THE COURSE OF THE PERMITTEE'S ROUTINE INSPECTION BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE. THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART D.2 OF THIS PERMIT.

3. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATERS BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS (NTU) UNLESS THE DISCHARGE IS CLASSIFIED AS A "TROUT STREAM" OR "WARM WATER FISHERIES." REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART B.I.1 THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED.

4. IF THE PERMITTEE HAS A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS TO A "TROUT STREAM" OR "WARM WATER FISHERIES," WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX B APPLICABLE TO THE CONSTRUCTION SITE. AS SET FORTH THEREIN, THE NEPHELOMETRIC TURBIDITY UNIT (NTU) VALUE SHALL BE SELECTED FROM APPENDIX B BASED UPON THE SIZE OF THE CONSTRUCTION SITE, THE SURFACE WATER DRAINAGE, AND WHETHER THE RECEIVING WATER BODY IS A "TROUT STREAM" OR "WARM WATER FISHERIES." A "TROUT STREAM" AS INDICATED IN THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-61 AT WWW.GAEPD.ORG

A. DUTY TO COMPLY

1. EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §12-2-50, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION, FOR PERMIT TERMINATION OR FOR DENIAL OF A PERMIT RENEWAL. APPLICANT FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.
2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIGHER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPO BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE VIOLATION.
3. PENALTIES FOR VIOLATIONS OF PERMIT REQUIREMENTS: THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-2-50, ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFY, TAMPER WITH, OR KNOWINGLY REUSES, MISACCURATE, ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BOTH. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL, OR EMERGENCY ORDER OF THE DIRECTOR.
- B. CONTINUATION OF THE EXPIRED GENERAL PERMIT: THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED; FINAL AND EFFECTIVE CONSTRUCTION SITES THAT HAVE NOT OBTAINED COVERAGE UNDER THE PERMIT BY THE PERMIT EXPIRATION DATE CANNOT BECOME AUTHORIZED TO DISCHARGE UNDER THE CONTINUED PERMIT.
- C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.
- D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A PERMISSIBLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.
- DUTY TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR, A STATE OR LOCAL AGENCY APPROVING SOIL EROSION AND SEDIMENTATION CONTROL, CONSTRUCTION PLANS, OR STORM WATER MANAGEMENT PLANS, OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE DSD, SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER GEORGIA OPEN RECORDS ACT.
- OTHER INFORMATION WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPO, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.
- G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, REPORTS, CERTIFICATIONS OR OTHER INFORMATION EITHER SUBMITTED TO THE EPO OR THE OPERATOR OF A LARGE OR MEDIUM MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES BE MAINTAINED BY THE PERMITTEE, SHALL BE SIGNED AS FOLLOWS:
1. ALL NOTICES OF INTENT SHALL BE SIGNED AS FOLLOWS
- A. FOR A CORPORATION, BY A RESPONSIBLE CORPORATE OFFICER FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION, OR (2) AN OFFICER OR EMPLOYEE OF THE CORPORATION WHO HAS AUTHORITY TO MAKE DECISIONS, MAKE FUNCTIONS FOR THE CORPORATION; OR (2) THE MANAGER OF ONE OR MORE MANUFACTURING, PRODUCTION OR OPERATING FACILITIES PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING HAVING THE EXPLICIT OR IMPLICIT DUTY OF MAKING MAJOR CAPITAL INVESTMENT RECOMMENDATIONS, AND INITIATING AND IMPLEMENTING DEFENSIVE MEASURES TO ASSURE COMPLIANCE WITH ENVIRONMENTAL COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS. THE MANAGER CAN ENSURE THE NECESSARY SYSTEMS ARE ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT APPLICATION REQUIREMENTS, AND WHERE AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED OR DELEGATED TO THE MANAGER IN ACCORDANCE WITH CORPORATE PROCEDURES.
- B. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP, BY A GENERAL PARTNER OR THE PROPRIETOR, RESPECTIVELY. OR
- C. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC AGENCY, BY EITHER A PUBLIC AGENCY EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL.

1. ALL NOTICES OF INTENT SHALL BE SIGNED AS FOLLOWS:
- A. FOR A CORPORATION, BY A RESPONSIBLE CORPORATE OFFICER FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION, OR ANY OTHER OFFICER WHO PERFORMS SUCH POLICY- OR DECISION MAKING FUNCTIONS FOR THE CORPORATION, OR (2) THE MANAGER OF SOME OTHER FACILITY, MANUFACTURING OR OTHERWISE, WHOSE DUTIES AND FUNCTIONS PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING HAVING THE EXPICIT OR IMPLICIT DUTY OF MAKING MAJOR CAPITAL INVESTMENT RECOMMENDATIONS, AND INITIATING AND EFFECTING OTHER COMPETITIVE MEASURES TO ASSURE LONG TERM ENVIRONMENTAL COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS. THE MANAGER CAN ENSURE THE NECESSARY SYSTEMS ARE ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT APPLICATION REQUIREMENTS, AND WHERE AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED OR DELEGATED TO THE MANAGER IN ACCORDANCE WITH CORPORATE PROCEDURES.
- B. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP, BY A GENERAL PARTNER OR THE PROPRIETOR, RESPECTIVELY, OR
- C. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC FACILITY, BY EITHER A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL.
2. ALL REPORTS, CERTIFICATION STATEMENTS, OR OTHER REPORTS REQUIRED BY THE PERMIT AND OTHER INFORMATION REQUESTED BY THE EPD SHALL BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON. A PERSON IS A DULY AUTHORIZED REPRESENTATIVE ONLY IF:
- A. THE AUTHORIZATION IS MADE IN WRITING BY THE PERSON DESCRIBED ABOVE AND SUBMITTED TO THE EPD. THE AUTHORIZED REPRESENTATIVE MAY BE AN INDIVIDUAL, OR A POSITION HAVING RESPONSIBILITY FOR THE OVERALL OPERATION OF THE REGULATED FACILITY OR ACTIVITY SUCH AS THE POSITION OF MANAGER, OPERATOR, SUPERINTENDENT, OR POSITION OF EQUIVALENT RESPONSIBILITY OR AN INDIVIDUAL OR POSITION HAVING OVERALL RESPONSIBILITY FOR ENVIRONMENTAL MATTERS FOR THE COMPANY. A DULY AUTHORIZED REPRESENTATIVE MAY BE EITHER A NAMED INDIVIDUAL OR ANY INDIVIDUA OCCUPYING A NAMED POSITION;
- B. CHANGES TO AUTHORIZATION, IF AN AUTHORIZATION UNDER PART II.B IS NO LONGER ACCURATE BECAUSE A DIFFERENT OPERATOR HAS RESIGNED OR LEFT THE OPERATION, THE AUTHORIZED REPRESENTATIVE MUST SUBMIT A WRITTEN STATEMENT SATISFYING THE REQUIREMENTS OF PART II.B. MUST BE SUBMITTED TO THE EPD PRIOR TO OR TOGETHER WITH ANY REPORTS, INFORMATION, OR APPLICATIONS TO BE SIGNED BY AN AUTHORIZED REPRESENTATIVE; AND
- D. CERTIFICATION, BY SIGNING THE INFORMATION SUBMITTED, THAT THE INFORMATION IN THE DOCUMENT AND THAT PARTY SHALL MAKE THE FOLLOWING CERTIFICATION: I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER, EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSONS OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWINGLY PROVIDING FALSE INFORMATION.

H. OIL AND HAZARDOUS SUBSTANCE LIABILITY NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-10-60, ET SEQ. OR UNDER CHAPTER 34 OF TITLE 12 OF THE GEORGIA OFFICIAL CODE, O.C.G.A. § 12-10-10, ET SEQ. OR UNDER ANY OTHER STATE OR FEDERAL LAW OR PENALTY WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

J. PROPER RIGHTS THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY PROPERTY RIGHTS OF ANY SORT, NOR ANY EXCLUSIVE PRIVILEGES, NOR DOES IT AUTHORIZE ANY INJURY TO PRIVATE PROPERTY NOR ANY INVASION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS.

K. SEVERABILITY THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, AND IF ANY PROVISION OF THIS PERMIT OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCE IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE PERMIT SHALL NOT BE AFFECTED.

L. OTHER APPLICABLE ENVIRONMENTAL REGULATIONS AND LAWS NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES ESTABLISHED BY OR UNDER ANY APPLICABLE STATE LAW OR REGULATION UNDER AUTHORITY PRESERVED BY SECTION 530 OF THE CLEAN WATER ACT, O.C.G.A. § 12-10-10, ET SEQ. OR UNDER ANY OTHER FEDERAL OR STATE LAW OR REGULATION, AND ANY OTHER APPLICABLE LOCAL, STATE AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND LAWS. FURTHERMORE, IT IS NOT A DEFENSE TO COMPLIANCE WITH THIS PERMIT THAT A LOCAL GOVERNMENT AUTHORITY HAS APPROVED THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR THAT IT HAS FAILED TO TAKE ANY ACTION TO ENFORCE THE PERMITTEE'S COMPLIANCE WITH THE PROVISIONS OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR OTHER PROVISIONS OF THIS PERMIT; NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

M. PROPER OPERATION AND MAINTENANCE THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT, STORAGE, OR DISPOSAL OF WASTEWATER, AND SHALL COMPLY WITH THE PERMIT AND THE PERMITTEE'S OBLIGATION TO COMPLY WITH THE CONDITIONS OF THIS PERMIT SHALL WITH THE REQUIRED PLANS, PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY ASSURANCE PROCEDURES, PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY AN PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE THE REQUIRED TREATMENT AND DISCHARGE STANDARDS.

N. INSPECTION AND ENTRY THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF EPA, EPA OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOLID EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR WASTEWATER MANAGEMENT PLANS, OR IN THE CASE OF THE DIRECTOR, AN AUTHORIZED REPRESENTATIVE THROUGH A MUNICIPAL AUTHORITY, TO ENTER THE PERMITTEE'S FACILITIES, OR THE FACILITIES OF THE SEPARATE MUNICIPAL AUTHORITY, TO INSPECT, REVIEW, SEPARATE STORM SEWER SYSTEM, AS AN AUTHORIZED REPRESENTATIVE OF THE MUNICIPAL AUTHORITY, TO INSPECT, REVIEW, AND MAINTAIN THE STORM SEWER SYSTEM RECEIVING THE DISCHARGE, UNDER THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW TO DO SO.

1. ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT AND

2. HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT, AND

3. INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

N. PERMIT ACTIONS THIS PERMIT MAY BE REVOKED AND RESCINDED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR ORIGINALLY APPLICABLE LAWS, OR VIOLATIONS OF THE PERMIT, OR A NOTIFICATION OF NONCOMPLIANCE OR ANTICIPATED NONCOMPLIANCE DOES NOT STAY ANY PERMIT CONDITION.

A. NOTICE OF TERMINATION ELIGIBILITY: NOTICE OF TERMINATION, SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT, MUST BE SUBMITTED:

1. FOR CONSTRUCTION ACTIVITIES, BY THE PERMITTEE WHERE THE ENTIRE STAND-ALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT HAVE CEASED; FOR CONSTRUCTION ACTIVITIES WHERE THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOIS FOR SEPARATE PHASES OF THE STAND-ALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STAND-ALONE DEVELOPMENT ON THE NOTIFICATION CORRESPOND TO THE PHASE OR PHASES OF THE NOI AND SHALL HAVE UNDERGONE FINAL STABILIZATION, AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT SHALL HAVE CEASED. BY THE OWNER OR OPERATOR, WHEN THE OWNER OR OPERATOR OF THE SITE CHANGES, WHERE STORM WATER DISCHARGES WILL CONTINUE, AFTER THE IDENTITY OF THE OWNER OR OPERATOR OF THE PERMITTED SITE HAS CHANGED, TO THE NEW OWNER OR OPERATOR OF THE PERMITTED SITE, NOTIFY ANY SUBSEQUENT OWNER OR OPERATOR OF THE PERMITTED SITE AS TO THE REQUIREMENTS OF THIS PERMIT.

B. NOTICE OF TERMINATION CONTENTS:

1. THE PERMITTEE'S LEGAL NAME, ADDRESS, TELEPHONE NUMBER,
2. THE SITE/PROJECT NAME, GPS LOCATION OF A CONSTRUCTION EXIT IN THE FORM OF DEGREES/MINUTES/SECONDS AS DETERMINED BY GPS UNIT, SITE LOCATION CITY (IF APPLICABLE) AND COUNTY OF THE SITE FOR WHICH THE NOTIFICATION IS SUBMITTED, THIS INFORMATION MUST CORRESPOND TO THE SIMILAR INFORMATION, AS PROVIDED ON THE NOI, WHERE A VAILING ADDRESS FOR THE SITE IS NOT AVAILABLE, THE LOCATION CAN BE DESCRIBED IN NARRATIVE TERMS AND COUNTY WHERE THE CONSTRUCTION SITE IS LOCATED.
3. THE NOISE PERMIT NUMBER FOR THE STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY IDENTIFIED BY THE NOTICE OF TERMINATION.
4. THE NAME OF THE RECEIVING WATER(S); AND WHEN THE DISCHARGE IS THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), THE NAME OF THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM AND THE NAME OF THE RECEIVING WATER BODY, WHEN RECEIVES THE DISCHARGE FROM THE PERMITTED SITE.
5. ANY OTHER INFORMATION SPECIFIED ON THE NOT IN EFFECT AT THE TIME OF SUBMITTAL AND
6. THE FOLLOWING CERTIFICATION SIGNED IN ACCORDANCE WITH PART V.G. (SIGNATORY REQUIREMENTS):
I CERTIFY UNDER PENALTY OF LAW THAT EITHER THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE PORTION OF THE CONSTRUCTION ACTIVITY WHERE I WAS AN OWNER OR OPERATOR HAVE CEASED OR HAVE BEEN ELIMINATED; (B) ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY GENERAL NOISES PERMIT NO. GAR-10000 HAVE CEASED; (C) I AM NO LONGER AN OWNER OR OPERATOR AT THE CONSTRUCTION SITE AND A NEW OWNER OR OPERATOR HAS ASSUMED OPERATIONAL CONTROL FOR THOSE PORTIONS OF THE CONSTRUCTION SITE WHERE I PREVIOUSLY HAD OWNERSHIP OR OPERATIONAL CONTROL; AND THAT DISCHARGING POLLUTANTS IN STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO THE FEATURES OF GEORGIA'S GREAT WATERS (PERMITS CONTROL ACT) AND THE CLEAN WATER ACT WHERE THE DISCHARGE IS NOT AUTHORIZED BY A NOISES PERMIT.

C. NOTICE OF TERMINATION SUBMITTAL: ALL NOTICES OF TERMINATION BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL, OR SIMILAR SERVICE TO THE APPROPRIATE EPD DISTRICT OFFICE ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE LOCAL ISSUING AGENCIES/ASSOCIATIONS AUTHORIZED TO ISSUE A LAND DISTURBANCE ACTIVITY PERMIT FOR THE PERMITTEE'S CONSTRUCTION, SITE PURSUANT TO 29-2-1-21.

[illegible]

ANTICIPATED START DATE: MARCH 1, 2019 ANTICIPATED COMPLETION DATE: FEBRUARY 29, 2020

LL95 14TH DISTRICT
KING ARNOLD STREET
CITY OF HAPEVILLE
FULTON COUNTY, GEORGIA

AN PAZDAN SMITH ARCHITECTURE
HAPEVILLE LIBRARY
SITE DEVELOPMENT PLANS
ESPCP NOTES

MCN	
DATE	2/19/19
REVISIONS	
 GSWCC LEVEL II CERT. NO. 0000021547	
DRAWN BY: TS	
CHECKED BY: TS	
PROJECT MANAGER: THEO STONE	
JOB #: 17003047	
FILE CODE: FILE CODE	
SHEET NO: C-24	



GA-Cr



TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

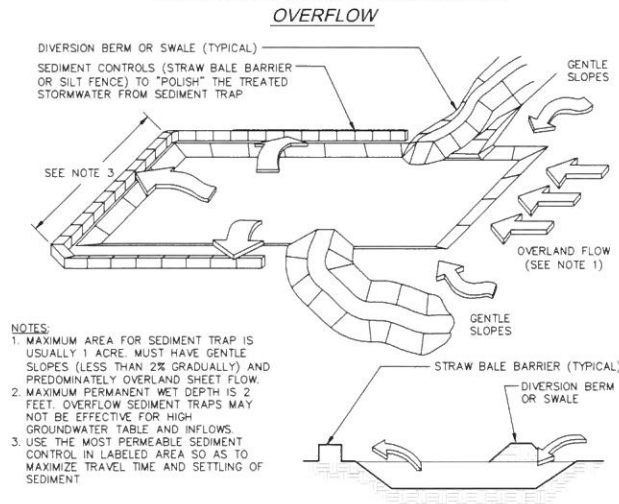


Figure 6-30.1

GA-Sd4

N.T.S.

Sd4

TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

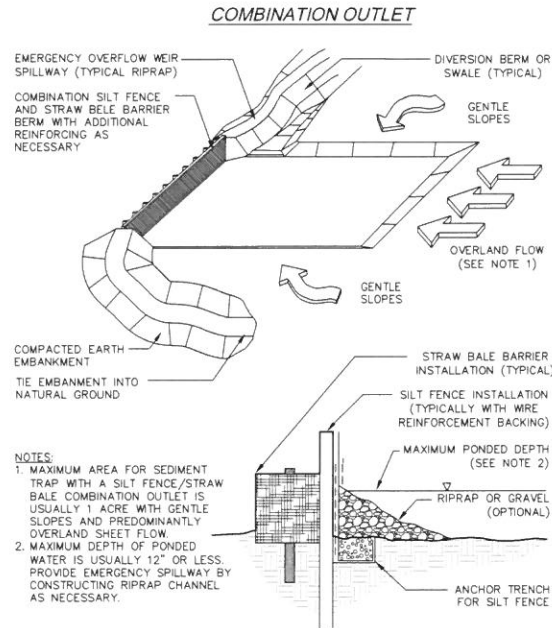


Figure 6-30.2

GA-Sd4

N.T.S.

Sd4

TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

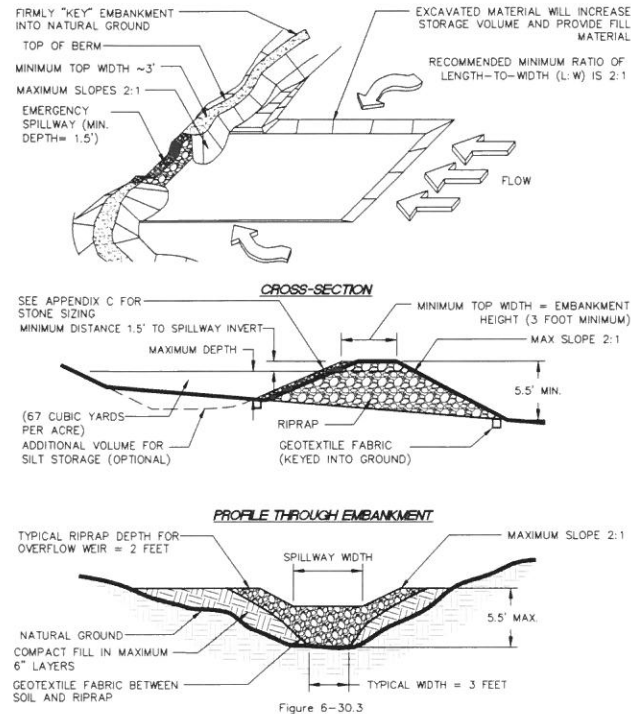


Figure 6-30.3

GA-Sd4

N.T.S.

Sd4

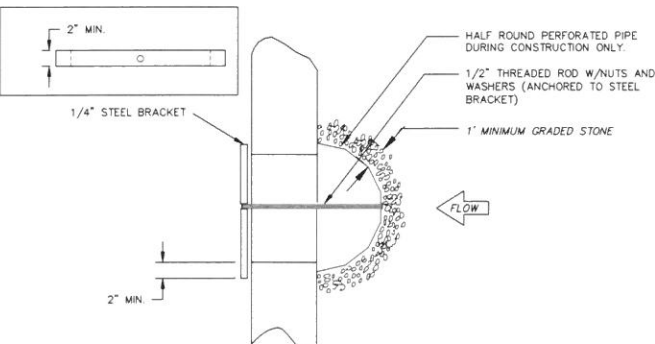
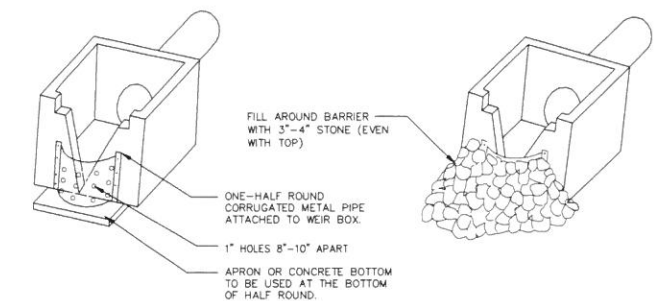
NOTES:
1. SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS. BOARDS SHOULD HAVE A 0.5" TO 1" SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
2. MINIMUM SIZE 3"-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
3. POSTS FOR THE SILT CONTROL GATE SHALL BE 4" X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
4. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STAPLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
5. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
6. HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
7. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.

USES: A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO TRAP SILT.
NOTE: SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.

GA-Rt-B

N.T.S.

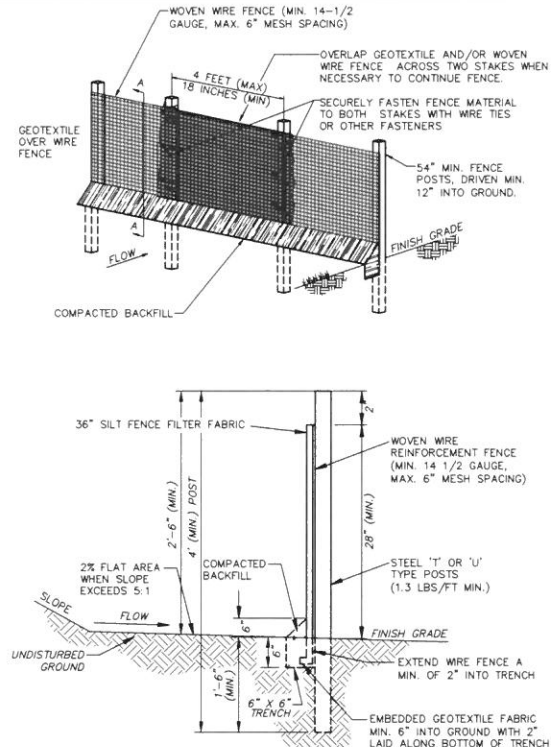
Rt-B



GA-P

N.T.S.

Rt-P



GA-Sd1-C

N.T.S.

GA-Sd1-C

N.T.S.

INSTALLATION

- DO NOT INSTALL ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.
- INSTALL WHERE SHEET FLOW CONDITION EXIST.
- START POST INSTALLATION AT THE CENTER OF THE LOWEST POINT WITH REMAINING POSTS SPACED 4 FEET APART.
- TYPE 'C' SILT FENCE SHALL BE USED WHERE RUNOFF FLOWS OR VELOCITIES ARE PARTICULARLY HIGH.
- TYPE 'C' SILT FENCE SHALL BE USED WHERE SLOPES EXCEED A VERTICAL HEIGHT OF 10 FEET.
- TWO ROWS OF TYPE 'C' SILT FENCE MUST BE USED ALONG ALL STREAM BUFFERS.
- WOVEN WIRE REINFORCEMENT FENCE TO BE FASTENED SECURELY TO STEEL POSTS WITH WIRE TIES OR APPROVED EQUAL AT TOP, MID AND BOTTOM.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCEMENT FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.

MAXIMUM SLOPE LENGTH

- WHERE ALL RUNOFF IS TO BE STORED BEHIND THE SILT FENCE, MAXIMUM SLOPE LENGTH SHALL NOT EXCEED:
LAND SLOPE = MAX. SLOPE LENGTH
2% - 5% = 100 FT.
5% - 10% = 50 FT.
10% - 20% = 25 FT.
20% = 15 FT.
- IN AREAS WHERE THE SLOPE IS GREATER THAN 20% OR 5:1, A FLAT AREA LENGTH OF 10 FT BETWEEN THE TOE OF THE SLOPE AND THE SILT FENCE MUST BE PROVIDED.

SILT FENCE FILTER FABRIC

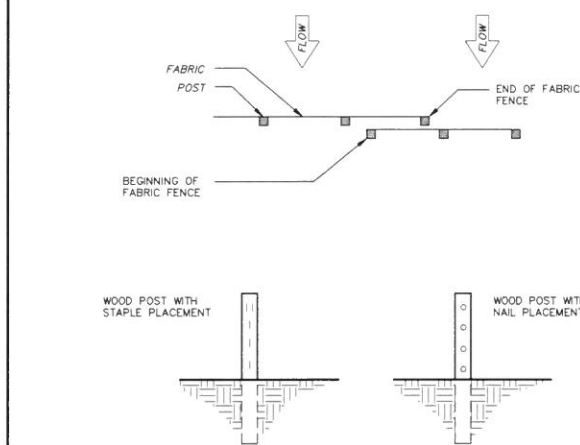
- UTILIZE DOT APPROVED FABRICS. COMMON EXAMPLES INCLUDE: MIRAFI 130X, AMOCO 1198, BELTECH 810, SI 915 SC, LING GTF 190.
- UTILIZE FENCE FABRIC THAT MEETS THE FOLLOWING CRITERIA:
TENSILE STRENGTH PER ASTM D-4632 WITH WARP-260 AND FILL-180 (LBS. MIN.)
ELONGATION PER ASTM D-4632 OF 40% MAX
APPROXIMATE OPENING SIZE (MAX. SIEVE SIZE) PER ASTM D-4751 OF #30
FLOW RATE OF 70 GAL/MIN/50 FT.
ULTRAVIOLET STABILITY OF 80 PER ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355
BURSTING STRENGTH OF 175 PSI MIN. PER ASTM D-3786

MAINTENANCE

- SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
- FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROX. 6 MONTHS), OR ANY TEARS OR HOLES ARE IN THE FABRIC.
- TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

TABLE 6-27.2 POST SIZE			
TYPE	MIN. LENGTH	TYPE OF POST	SIZE OF POST
NS	4'	SOFT WOOD OAK STEEL	3" DIA OR 2X4 1.5" X 1.5" 1.15 lb / ft MIN.
S	4'	STEEL OAK	1.15 - 1.25 lb / ft MIN. 2" X 2"

TABLE 6-27.3 FASTENERS FOR WOOD POSTS				
	GAUGE	CROWN	LEGS	STAPLES/ POST
WIRE STAPLES	17 MIN.	3/4" WDE	1/2" LONG	5 MIN.
	GAUGE	LENGTH	BUTTON HEADS	NAIL/ POST
NAILS	14 MIN.	1"	3/4"	4 MIN.



NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

GA-Sd1-C

N.T.S.



Know what's below.

Call before you dig.
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES INCURRED BY THE CONTRACTOR AS A RESULT OF ANY DAMAGE TO EXISTING UTILITIES.

NOTICE: THE CONTRACTOR SHALL BE THE SOLE RESPONSIBLE FOR THE CONSTRUCTION OF THE BARRIER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE BARRIER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE BARRIER.

24 HOUR EMERGENCY CONTACT
JOE ALCOCK
678-251-4602

ATWELL
866.850.4200 www.atwell-group.com
1255 LAKES PARKWAY BUILDING 100, SUITE 120
LAWRENCEVILLE, GA 30043
866.850.4200



COA # PE 005804

LL95 14TH DISTRICT
KING ARNOLD STREET
CITY OF HAPEVILLE
FULTON COUNTY, GEORGIA

MC MILLAN PAZDAN SMITH ARCHITECTURE
HAPEVILLE LIBRARY
SITE DEVELOPMENT PLANS
EROSION DETAILS

DATE 2/19/19

REVISIONS



DRAWN BY TS
CHECKED BY TS
PROJECT MANAGER THEO STONE
JOB # 17003047
FILE CODE FILE CODE
SHEET NO.

C-2.6

BOTTOM RIGHT

INSTALLATION

- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- MULCH IS NOT SUITABLE FOR USE ON AREAS THAT WILL BE EXPOSED FOR SIX MONTHS OR LONGER. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION IS REQUIRED.
- MULCH CAN BE USED AS A SINGLE EROSION CONTROL DEVICE FOR UP TO SIX MONTHS IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING.
- MULCH MUST BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED AS NEEDED, AND HAVE A CONTINUOUS ROOF COVER OR GREATER OF THE SOIL SURFACE.
- IN CONCENTRATED FLOW AREAS, ENSURE MULCH IS PROPERLY ANCHORED OR AVOID UTILIZING MULCH ALL TOGETHER.
- GRADE SITE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- INSTALL OTHER NEEDED/REQUIRED EROSION CONTROL MEASURE BMPs PRIOR TO PLACING MULCH ON AREA.
- LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF THREE (3) INCHES.
- APPLY MULCH UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
- CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.

MULCHING MATERIALS

- DRY STRAW OR HAY - DRIED STRAW OR HAY WITH THE ADVANTAGE OF EASY APPLICATION.
- WOOD WASTE - 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.
- CUTBACK ASPHALT - SLOW CURING SHALL BE USED FOR EROSION CONTROL APPLICATIONS.
- POLYETHYLENE FILM - SHALL BE SECURED OVER BANKS OR SLOPES AND STORED SOIL MATERIALS FOR TEMPORARY PROTECTION. THIS COVER MATERIAL CAN BE STAPLED AND RE-USED.

MAINTENANCE

- ADD MULCH AS NEEDED TO MAINTAIN THE SUGGESTED DEPTH.
- ENSURE MINIMUM OF 90% COVERAGE OF ALL EXPOSED EARTH.
- IF ORGANIC MULCH IS TO BE LEFT AND INCORPORATED INTO THE SOIL, APPLY 20-30 POUNDS OF NITROGEN IN ADDITION TO THE FERTILIZER REQUIRED FOR VEGETATION.

GA-Ds1

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

Ds1

COMMON NAME		SCIENTIFIC NAME	MATURE HEIGHT	PLANT SPACING	COMMENTS
ALBELLIA		ALBELLIA GRANDIFLORA	3-4 FT	5 FT	ALSO A PROSTRATE FORM 2 FEET HIGH. SUN, SEMI-SHADE.
CAROLINA YELLOW JESSAMINE		GESELMIA SEMPERVIRENS	LOW	3 FT	YELLOW TRUMPET-LIKE FLOWERS. HARDY, ONE OF THE BEST VINES FOR CLIMBING. NATIVE TO GEORGIA.
CARPET BLUE		AJUDA REPENS	2-4 IN	3 FT	NEEDS GOOD DRAINAGE. PARTIAL SHADE. BLUE OR WHITE FLOWERS. EVERGREEN.
REBERRY COTONEASTER		COTONEASTER DAMMER	2-4 FT	3 FT	WHITE FLOWERS. RED FRUIT. SUN, EVERGREEN.
GROUND COVER COTONEASTER		COTONEASTER SALICIFOLIOSA REPENS	1-2 FT	3 FT	WHITE FLOWERS. RED FRUIT. SUN, EVERGREEN.
ROCK COTONEASTER		COTONEASTER HORIZONTALIS	1-2 FT	3 FT	SEM-EVERGREEN. SUN.
VIRGINIA CREEPER		PARHODIOSIS QUINQUELOBA	LOW	3 FT	RED IN FALL. VINE DECIDUOUS. NATIVE TO GEORGIA.
DAYLILY		HEMEROCALLIS SPP.	2-3 FT	3 FT	MANY FLOWERS COLORS FULL SUN. VERY HARDY.
ENGLISH IVY		HEDERA HELIX	LOW	5 FT	SHADE ONLY. CLIMBS.
COMPACTA		LIX CRENATA COMPACTA	3-4 FT	5 FT	SUN, SEMI-SHADE.
CHINESE HOLLY		LIX CORNUTA	3-4 FT	5 FT	VERY DURABLE. SUN, SEMI-SHADE.
DWARF BURFORD HOLLY		LIX BURFORDIANA	5-8 FT	8 FT	
DWARF YALFORD HOLLY		LIX YALFORDIANA	3-4 FT	5 FT	VERY DURABLE. SUN, SEMI-SHADE.
REPAENDS JUNIPER		LIX CRENATA REPENS	2-3 FT	5 FT	SUN, SEMI-SHADE.
ANDORRA JUNIPER		JUNIPERUS HORIZONTALIS FLUMOSA	2-3 FT	5 FT	EXCELLENT FOR SLOPES. SUN.
ANDORRA COMPACTA JUNIPER		JUNIPERUS HORIZONTALIS FLUMOSA COMPACTA	1-2 FT	5 FT	MORE COMPACT THAN ANDORRA.
BLUE CHIP JUNIPER		JUNIPERUS HORIZONTALIS BLUE CHIP	8-10 FT	4 FT	
BLUE RUG JUNIPER		JUNIPERUS HORIZONTALIS BLUE RUG	4-6 FT	3 FT	VERY LOW. SUN.
PARSONS JUNIPER		JUNIPERUS DAURICA EXPANSA (SQUAMATA PARSONS)	18-24 FT	5 FT	ONE OF THE BEST GOOD WINTER COVER.
PRIFZER JUNIPER		JUNIPERUS CHINENSIS PRIFZERIANA	6-8 FT	6 FT	NEEDS ROOMS.
SARGENT WALKER JUNIPER		JUNIPERUS HORIZONTALIS SARGENT WALKER	8-10 IN	4 FT	FEATHERY APPEARANCE.
THUNDERBOLT JUNIPER		JUNIPERUS CHINENSIS THUNDERBOLT	1-2 FT	5 FT	FULL SUN. NEEDS GOOD DRAINAGE. GOOD WINTER COLOR.
SHORE JUNIPER		JUNIPERUS CONFERTA	2-3 FT	5 FT	EMERALD SEA OF BLUE. PLACIFIC CULTIVARS ARE GOOD.
LIRIOPE		LIRIOPE MUSCARI	8-10 FT	3 FT	
CREEPING LIRIOPE		LIRIOPE SPICATA	10-12 FT	1 FT	SPREADS BY RUNNERS.
BIG LEAF PERIWINKLE		VINCA MAJOR	12-15 IN	4 FT	LILAC FLOWERS IN SPRING. SEMI-SHADE.
COMMON PERIWINKLE		VINCA MINOR	5-6 IN	4 FT	LAVENDER-BLUE FLOWERS IN SPRING. SEMI-SHADE.
CHEROKEE ROSE		ROSA LAVIGATA	2 FT	5 FT	RAMPAUT GROWER. NOT FOR RESTRICTED SPACES. STATE FLOWER.
MEMORA ROSE		ROSA MEUCHURIANA	2 FT	5 FT	RAMPAUT GROWER.
ST. JOHNSWORT		HYPERICUM CALYCEUM	8-12 IN	3 FT	SEMI-SHADE.
ANTHONY WATERER SPIREA		SPIREA BUNALDA	3-4 FT	5 FT	SUN.
THUNDERBOLT SPIREA		SPIREA THUNDERBOLT	3-4 FT	5 FT	SUN.

RESOURCE AREA INDEX

- M - REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MOUNTAIN.
- P - REPRESENTS THE SOUTHERN PEDESTAL MOUNTAIN.
- C - REPRESENTS THE SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MOUNTAIN.



RESOURCE AREA MAP

ANCHORING MULCH

- STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.
- MULCH ON SLOPES GREATER THAN 3% SHOULD BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE A1-SOR 55-1) OR OTHER SUITABLE TACKLER.
- WOOD WASTE ON SLOPES FLATTER THAN 3:1 (33%) DOES NOT NEED ANCHORING.
- STRAW OR HAY MULCH CAN BE PREPRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL TACKER DISK. DISKS MAY BE SPACED OR SPACED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE CHAIN ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL, LEAVING MOST OF IT IN AN ERRECT POSITION.
- IN CONCENTRATED FLOW AREAS, ENSURE MULCH IS PROPERLY ANCHORED OR AVOID UTILIZING MULCH ALL TOGETHER.
- GRADE SITE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- INSTALL OTHER NEEDED/REQUIRED EROSION CONTROL MEASURE BMPs PRIOR TO PLACING MULCH ON AREA.
- LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF THREE (3) INCHES.
- APPLY MULCH UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
- CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.

MULCHING APPLICATION REQUIREMENTS

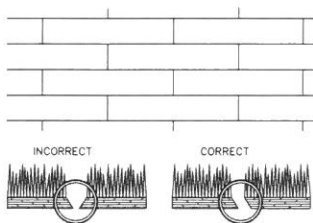
MATERIAL	RATE	DEPTH
STRAW OR HAY	2 1/2 TON/ACRE	2" TO 4"
WOOD WASTE, CHIPS, YAMOUTH, BARK	6 TO 9 TON/ACRE	2" TO 3"
CUTBACK ASPHALT	100 GAL./ACRE OR 100 GALLONS OF WATER PER TON OF MULCH	---
POLYETHYLENE FILM	SECURE WITH SOIL ANCHORS AND MANUFACTURER'S RECOMMENDATIONS	---
POLYETHYLENE NETTING, ETC.	SECURE WITH SOIL ANCHORS AND MANUFACTURER'S RECOMMENDATIONS	---

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TYPE OF SPECIES		APPLICATION TYPE	APPLICATION RATES	RESOURCE AREA	REMARKS
BARLEY (Hordeum vulgare)		ALONE	144 lbs (3 bu) 3.3 bu	M-L	14,000 SEED PER POUND WINTERHARDY. USE ON PRODUCTIVE SOILS.
LEPZEGRA, ANNUAL (Lepzegrass Annual)		ALONE	40 lbs 0.9 bu	M-L	200,000 SEED PER POUND MAY VOLUNTEER FOR SEVERAL YEARS. USE INCLIMATE EL.
LOVEGRASS, WEEPING (Eragrostis Curvula)		ALONE	10 lbs 0.2 bu	M-L	1,000,000 SEED PER POUND MAY LAST FOR SEVERAL YEARS. MIX WITH SERICIA LEPEZEGRA.
MILLET BROWN TOP (Panicum fasciculatum)		ALONE	40 lbs 0.9 bu	M-L	137,000 SEED PER POUND MAY REACH 3 FEET HEIGHT. NOT RECOMMENDED FOR WATERS.
MILLET, PEARL (Pennisetum Gloucium)		ALONE	50 lbs 1.1 bu	M-L	88,000 SEED PER POUND MAY REACH 3 FEET HEIGHT. NOT RECOMMENDED FOR WATERS.
OATS (Avena Sativa)		ALONE	128 lbs (4 bu) 3.2 bu	M-L	13,000 SEED PER POUND USE ON PRODUCTIVE SOILS. NOT RECOMMENDED FOR WATERS.
RYE (Secale Cereale)		ALONE	168 lbs (6 bu) 3.9 bu	M-L	18,000 SEED PER POUND DROUGHT TOLERANT AND WINTERHARDY.
RYEGRASS, ANNUAL (Lepzegrass Annual)		ALONE	40 lbs 0.9 bu	M-L	200,000 SEED PER POUND KEY COMPANION AND IS NOT TO BE USED IN WATERS.
SUDANGRASS (Sorghum Sudanes)		ALONE	60 lbs 1.4 bu	M-L	35,000 SEED PER POUND 100% DROUGHT TOLERANT. NOT RECOMMENDED FOR WATERS.
TRITICALE (Triticosec)		ALONE	144 lbs (3 bu) 3.3 bu	M-L	14,000 SEED PER POUND WINTERHARDY.
WHEAT (Triticum Aestivum)		ALONE	160 lbs (4 bu) 4.0 bu	M-L	15,000 SEED PER POUND WINTERHARDY.

TYPE OF SPECIES		APPLICATION TYPE	APPLICATION RATES	RESOURCE AREA	REMARKS
BAHIA, PENSACOLA (Bahia Pennata)		ALONE OR WITH TEMPORARY COVER	60 lbs 1.4 bu	P	166,000 SEED PER POUND. LOW GROWING. SLOW FORMING. SLOW TO ESTABLISH NEW ROOTS. USE NORTH OF ATLANTA.
BAHIA, WILMINGTON (Bahia Pennata)		ALONE OR WITH TEMPORARY COVER	60 lbs 1.4 bu	M-L	166,000 SEED PER POUND. LOW GROWING. SLOW FORMING. SLOW TO ESTABLISH NEW ROOTS. USE NORTH OF ATLANTA.
BERMUDA, COMMON (Cynodon Dactylon)		ALONE	30 lbs 0.7 bu	P	188,000 SEED PER POUND. LOW GROWING. SLOW FORMING. SLOW TO ESTABLISH NEW ROOTS. USE NORTH OF ATLANTA.
HULLED SEED		WITH OTHER PERENNIALS	6 lbs 0.1 bu	C	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SLOW FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (Cynodon Dactylon)		WITH TEMPORARY COVER	10 lbs 0.2 bu	P	188,000 SEED PER POUND. LOW GROWING. SLOW FORMING. SLOW TO ESTABLISH NEW ROOTS. USE NORTH OF ATLANTA.
UNHULLED SEED		WITH OTHER PERENNIALS	6 lbs 0.1 bu	C	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SLOW FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (Cynodon Dactylon)		WITH TEMPORARY COVER	10 lbs 0.2 bu	P	188,000 SEED PER POUND. LOW GROWING. SLOW FORMING. SLOW TO ESTABLISH NEW ROOTS. USE NORTH OF ATLANTA.
CENTREDE (Eriochloa Ciliaris)		BLOCK	10 lbs 0.2 bu	M-L	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SLOW FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
CROCKWEET (Coronilla Verna)		WITH WINTER ANNUALS OR SPRING GRASSES	15 lbs 0.3 bu	M-L	100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. MAY WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE.
FESCUE, TALL (Festuca Arundinacea)		ALONE	50 lbs 1.1 bu	M-L	227,000 SEED PER POUND. MIX WITH PERENNIALS OR CROCKWEET. TALL FESCUE ONLY IN M-L AND M-LAND ONLY IN M-L.
LEPZEGRA, SERICIA (Lepzegrass Curvula)		ALONE	60 lbs 1.4 bu	M-L	35,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. MAY WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE.
SCARIFIED		ALONE	75 lbs 1.7 bu	M-L	35,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. MAY WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE.
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UNSCARIFIED		ALONE	75 lbs 1.7 bu	M-L	35,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. MAY WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE.
LEPZEGRA, SERICIA (Lepzegrass Curvula)		ALONE	60 lbs 1.4 bu	M-L	35,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. MAY WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE.
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SOD LAYOUT AND PREPARATION



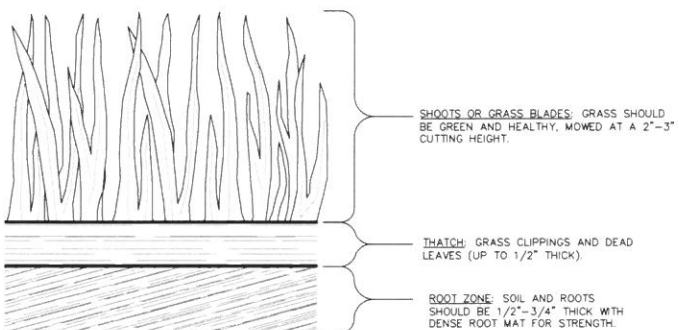
LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

DIRECTIONS FOR INITIAL MAINTENANCE

- Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
- Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
- Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



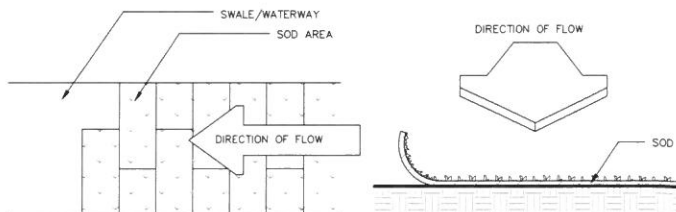
SOD MAINTENANCE AND INSTALLATION

DISTURBED AREA STABILIZATION (WITH SODDING)

GA-DS-4

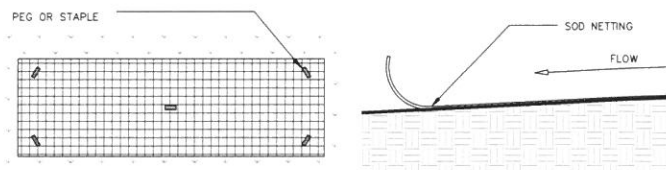
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SOD DIRECTIONS



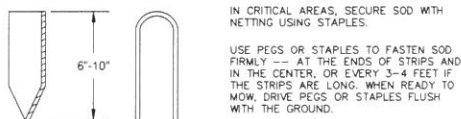
LAY SOD ACROSS THE DIRECTION OF FLOW.

NETTING DIRECTIONS



LAY NET WITH THE DIRECTION OF FLOW.

PEG DETAIL



SODDED WATERWAYS

DISTURBED AREA STABILIZATION (WITH SODDING)

GA-DS-4

DS-4

METHOD AND MATERIALS

TEMPORARY METHODS

- MULCHES -- COVER DISTURBED AREA WITH MULCHING ONLY.
- SYNTHETIC RESINS -- USED TO BIND MULCH MATERIAL, SUCH AS ASPHALT EMULSIONS.
- TACKIFIERS AND BINDERS -- RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

- VEGETATIVE COVER -- COVER DISTURBED AREA WITH TEMPORARY SEEDING.

- SPRAY-ON ADHESIVES -- USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. APPLY PER RATE REQUIREMENTS.

- TILLAGE -- THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION 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 THE DESIRED EFFECT.

- IRRIGATION -- THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS -- SOLID BOARD FENCES, SNOWFENCES, BURLAP 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 METHODS

- PERMANENT VEGETATION -- COVER DISTURBED AREA WITH PERMANENT VEGETATION. EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

- TOPSOILING -- THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL.

- STONE -- COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL, SUCH AS A CONSTRUCTION ROAD.

INSTALLATION

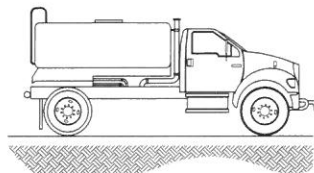
- APPLY AS NEEDED ON ALL SITES.
- PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
- REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.
- APPLY TEMPORARY OR PERMANENT CONTROL MEASURES AS NEEDED.

SPRAY-ON ADHESIVE APPLICATION

ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (GAL./ACRE)
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

MAINTENANCE

- PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
- SUPPLEMENT SURFACE COVERING AS NEEDED.
- RE-APPLY AS NEEDED.

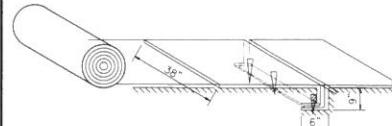


DUST CONTROL ON DISTURBED AREAS

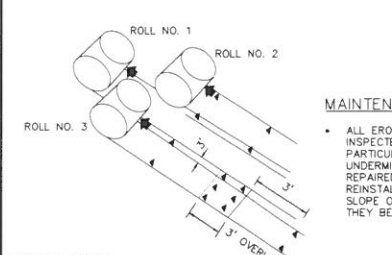
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CONCRETE WASHDOWN DETAIL



PICTORIAL VIEW OF TRANSVERSE SLOT



SEQUENTIAL ROLL OUT IN CHANNELS

- START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
- FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
- SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
- WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
- USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
- USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

MAINTENANCE

- ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.

INSTALLATION

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH.
- ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH.
- BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL.
- SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
- BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.
- ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
- WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT.
- PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPUNCE DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP.
- STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
- NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL MATTING AND BLANKETS

GA-CD-5



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24 HOUR EMERGENCY CONTACT
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KING ARNOLD STREET
CITY OF HAPEVILLE
FULTON COUNTY, GEORGIA

MCMLAN PZADAN SMITH ARCHITECTURE
HAPEVILLE LIBRARY
SITE DEVELOPMENT PLANS
EROSION DETAILS

DATE 2/19/19

REVISIONS
BRIAN E. KAY
GSWCC LEVEL II
CERT. NO. 0000021547

DRAWN BY TS
CHECKED BY TS
PROJECT MANAGER THEO STONE
JOB # 17003047
FILE CODE FILE CODE
SHEET NO. C-2.8

EROSION CONTROL MATTING AND BLANKETS

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EROSION CONTROL MATTING AND BLANKETS

GA-CD-5

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EROSION CONTROL MATTING AND BLANKETS

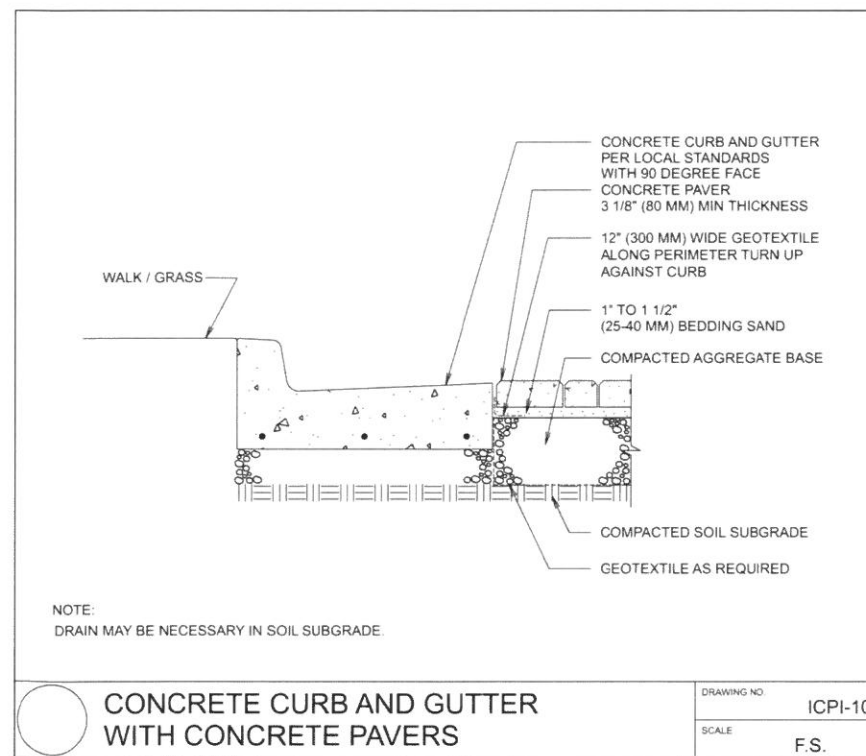
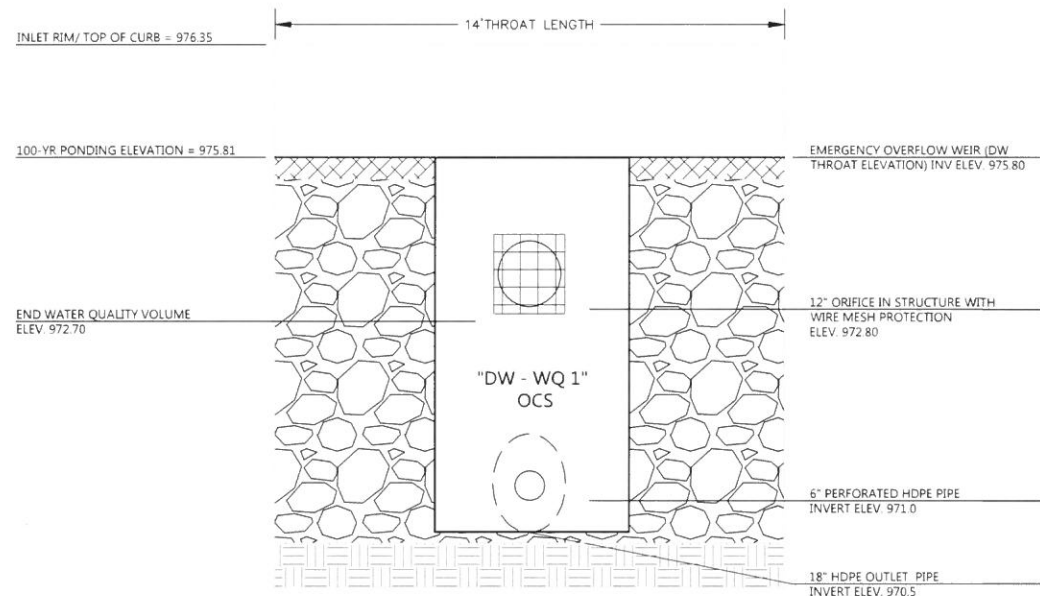
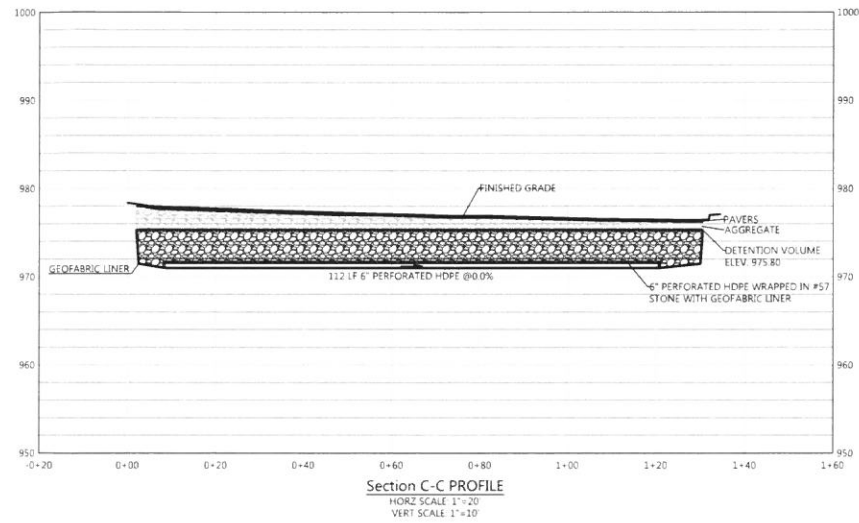
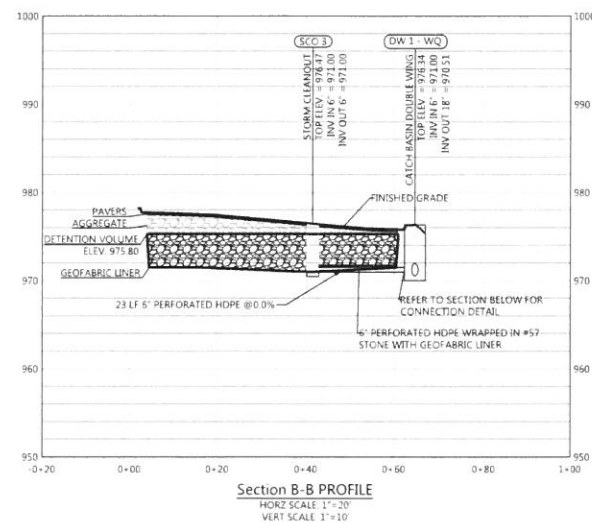
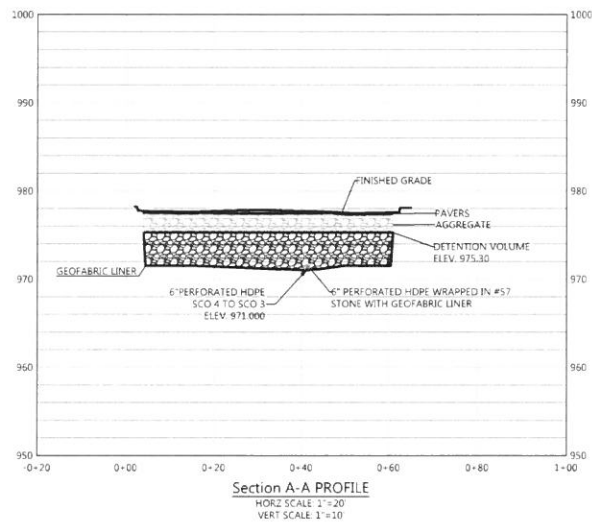
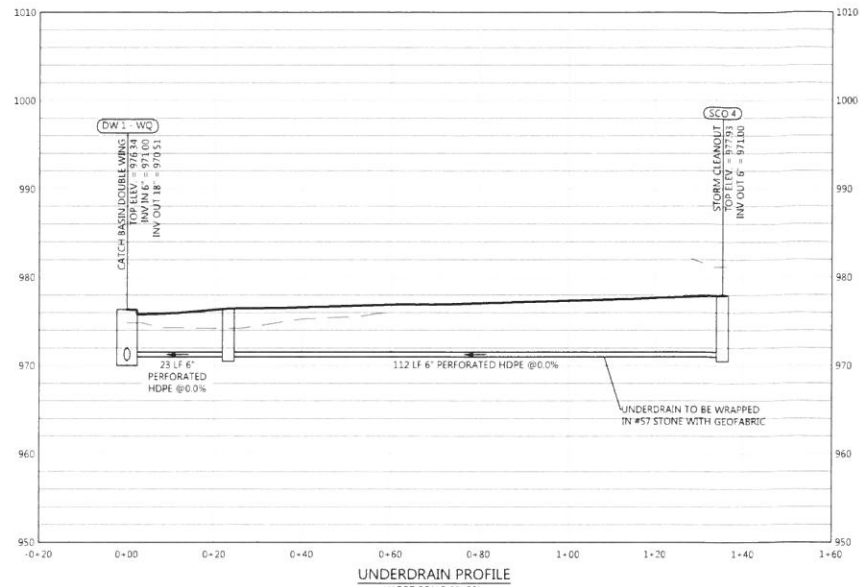
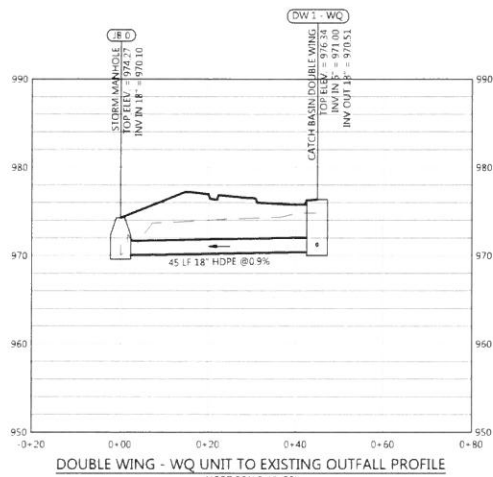
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EROSION CONTROL MATTING AND BLANKETS

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CD-5



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SITE DEVELOPMENT PLANS
STORM PROFILES AND CROSS SECTIONS

DATE 2/19/19

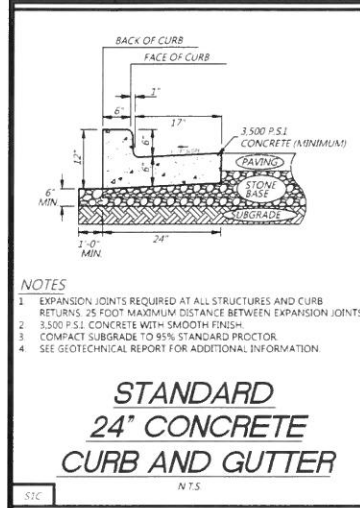
REVISIONS

BRIAN E. KAY
ENGINEER

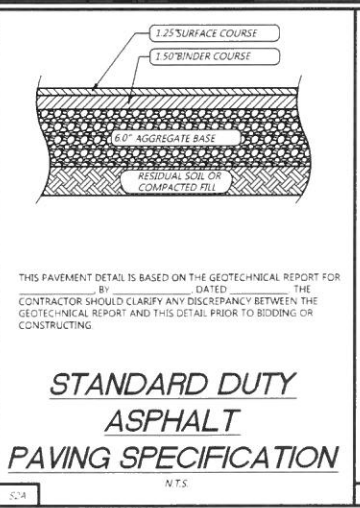
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CERT. NO. 0000021547
0 10 20
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CHECKED BY TS
PROJECT MANAGER THEO STONE
JOB # 17003047
FILE CODE: FILE CODE
SHEET NO C-6.0

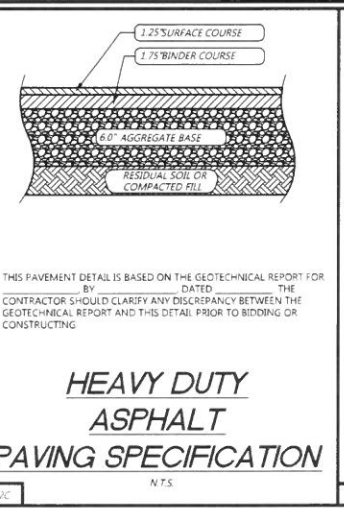
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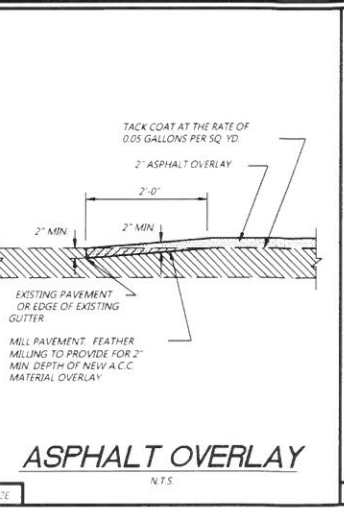
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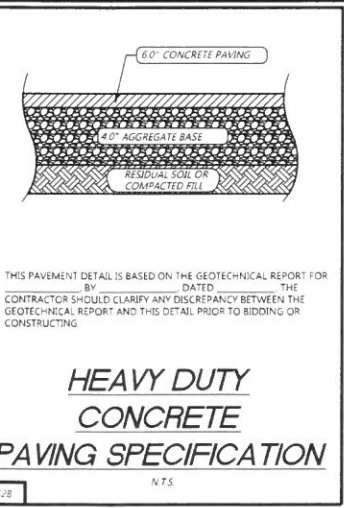
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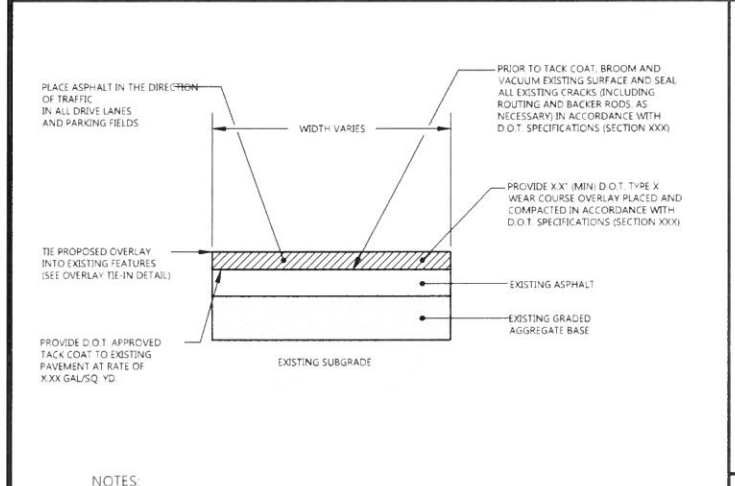
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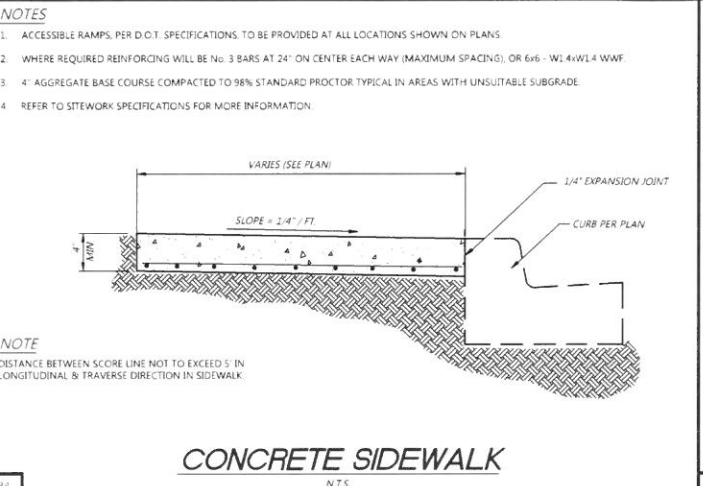
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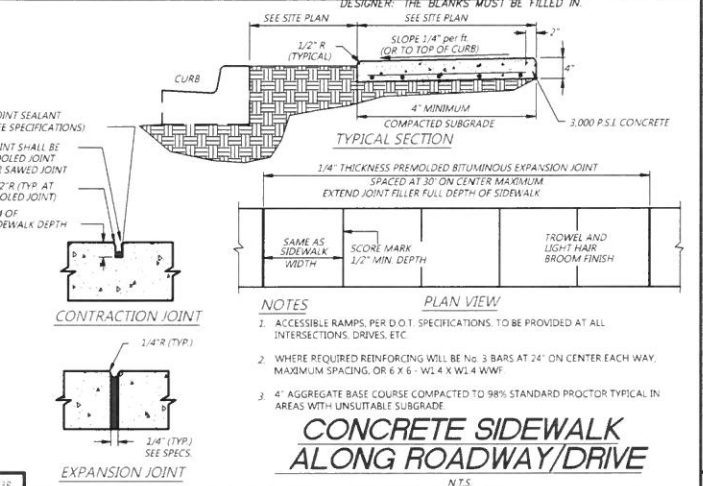
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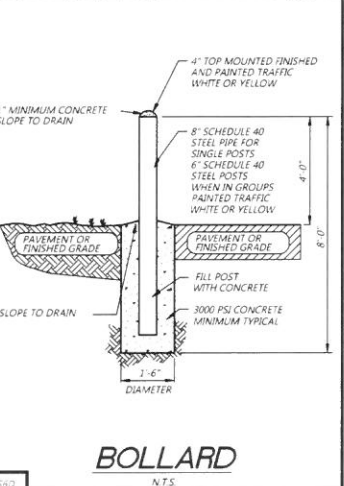
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S2A N.T.S.



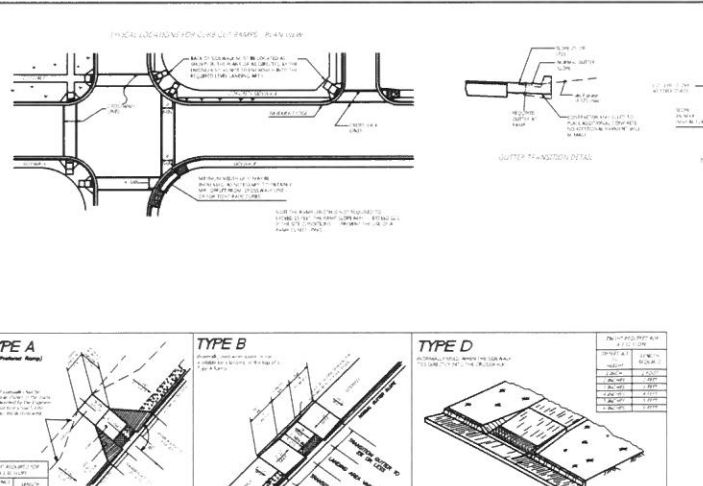
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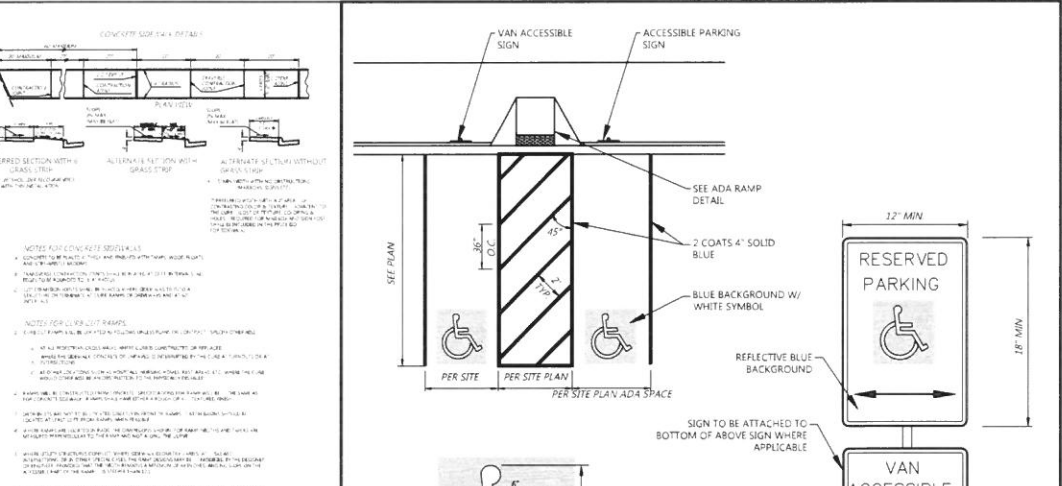
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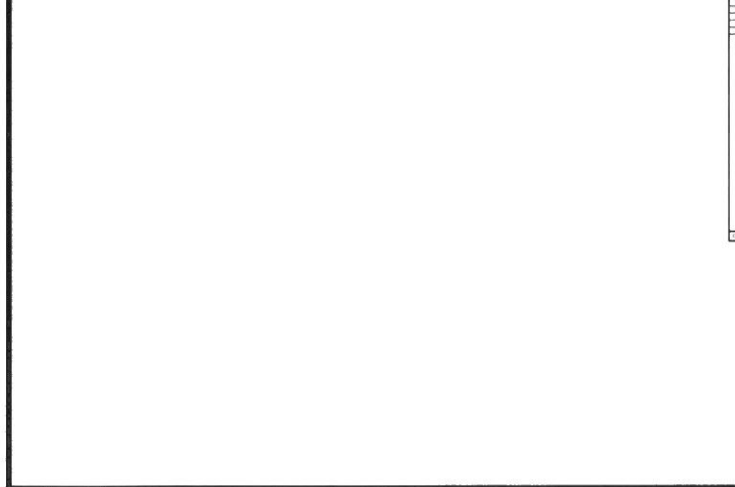
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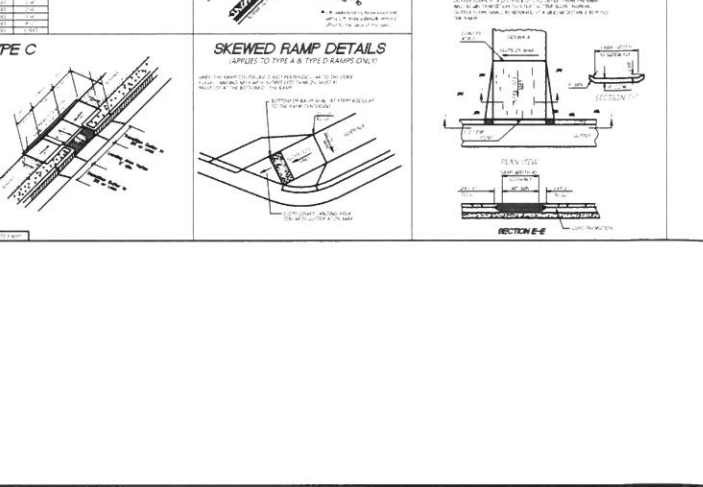
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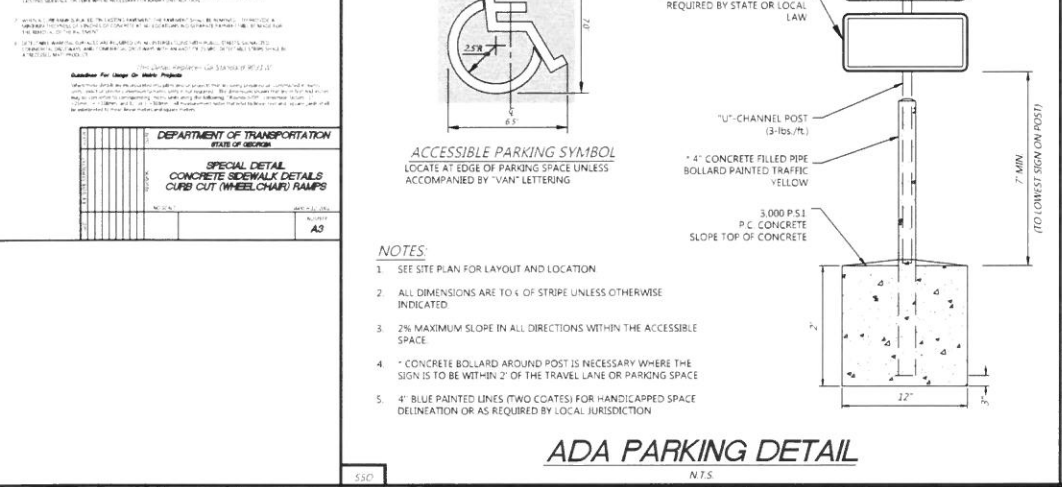
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S2C N.T.S.



S2C N.T.S.



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CONSTRUCTION DETAILS

DATE 2/19/19

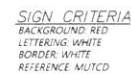
REVISIONS

REGISTERED PROFESSIONAL ENGINEER
BRIAN E. KAY
GSWCC LEVEL II
CERT. NO. 0000021547

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CHECKED BY TS
PROJECT MANAGER THEO STONE
JOB # 17003047
FILE CODE FILE CODE
SHEET NO. C-7.0



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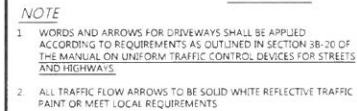
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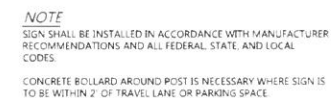


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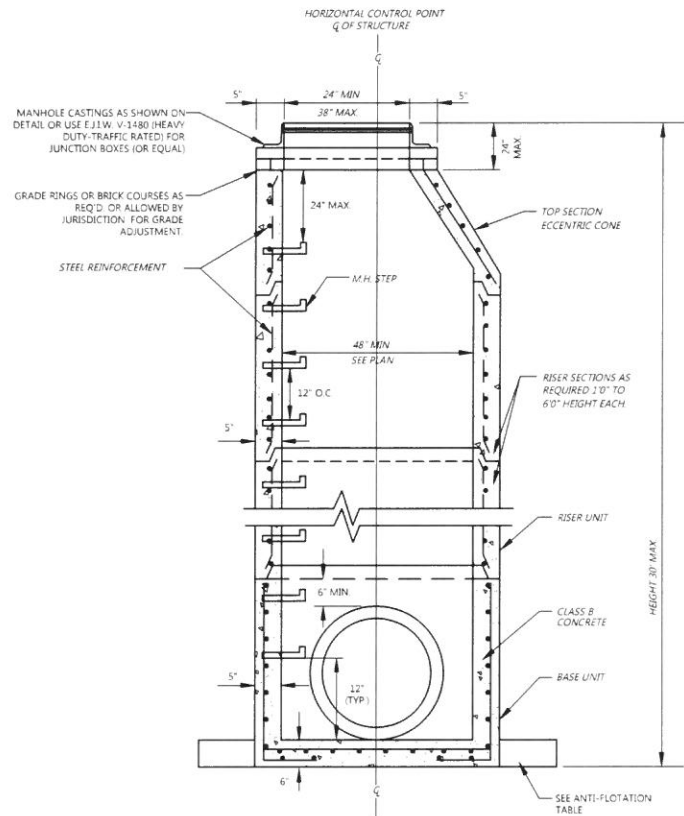
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54C



52AA



**TYPICAL PRECAST
STORM SEWER MANHOLE**
N.T.S.

SPECIFICATIONS:

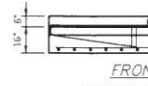
- COMPRESSIVE:** 4000 PSI @ 28 DAYS
- LOADING:** AASHTO HS-20 TRAFFIC LOADING
- STRUCTURE:** DESIGN TO CONFORM WITH PRECAST REINFORCED CONCRETE MANHOLE SECTIONS A.S.T.M. DESIGNATION C478
- REINFORCEMENT:** COMPLIES WITH ASTM A-615 GRADE 60 AND/OR A.S.T.M. A185 BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS
- SITE PREPARATION:** THE STRUCTURE SHALL BE PLACED ON A COMPACTED GRANULAR BASE TO INSURE UNIFORM DISTRIBUTION OF SOIL PRESSURES
- WATER TABLE:** BASE DESIGN ON 2'0\"/>

CIRCULAR MANHOLE FOOTER CHART (ANTI-FLOTATION IN PONDS)

WT.	DIAMETER	DEPTH	DIAMETER	DEPTH	DIAMETER	DEPTH
20	9'	2.75'	7.5'	3.25'	6'	4.00'
18	9'	2.50'	7.5'	3.00'	6'	3.50'
16	9'	2.25'	7.5'	2.67'	6'	3.25'
14	9'	2.00'	7.5'	2.25'	6'	2.75'
12	9'	1.75'	7.5'	2.00'	6'	2.50'
10	9'	1.50'	7.5'	1.75'	6'	2.00'
8	9'	1.25'	7.5'	1.33'	6'	1.67'
6	9'	1.00'	7.5'	1.00'	6'	1.25'
4	9'	0.83'	7.5'	0.83'	6'	0.83'
2	9'	0.83'	7.5'	0.83'	6'	0.83'

PIPE SIZE	NORMAL W OR W1	MIN H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-4"	5'-6"
30"	3'-4"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

INLET CAPACITY
(Weir Flow)
 $Q = 3.3P^{0.4}(h)^{1.5}$
Where $P = W1 + 8'-4"$
 h = head in feet



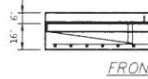
SPECIFICATIONS:

1. THE CONCRETE IS DESIGNED TO OBTAIN A STRENGTH OF 4,000 PSI IN 28 DAYS
2. THE REINFORCING STEEL HAS A YIELD STRENGTH OF 60,000 PSI (1-1/2\"/>

DOUBLE WING CATCH BASIN
N.T.S.

PIPE SIZE	NORMAL W OR W1	MIN H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
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60"	6'-0"	9'-2"

INLET CAPACITY
(Weir Flow)
 $Q = 3.3P^{0.4}(h)^{1.5}$
Where $P = W1 + 9'-4"$
 h = head in feet



SPECIFICATIONS:

1. THE CONCRETE IS DESIGNED TO OBTAIN A STRENGTH OF 4,000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED.
2. THE REINFORCING STEEL HAS A YIELD STRENGTH OF 60,000 PSI (1-1/2\"/>

DOUBLE WING CATCH BASIN
N.T.S.



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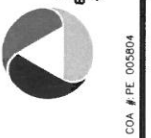
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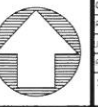
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SITE DEVELOPMENT PLANS
CONSTRUCTION DETAILS

DATE 2/19/19

REVISIONS

REGISTERED PROFESSIONAL ENGINEER
BRIAN E. KAY
STATE OF GEORGIA
LICENSE NO. 1000021547
CSPEC LEVEL II
CERT. NO. 0000021547

DRAWN BY: TS
CHECKED BY: TS
PROJECT MANAGER: THEO STONE
JOB #: 17003047
FILE CODE: FILE CODE
SHEET NO. C-7.3



CAD FILE: C700 DETAILS

BOTTOM RIGHT



TOTAL FLOOR AREA RATIO: .007

Size of	Constant (1000)
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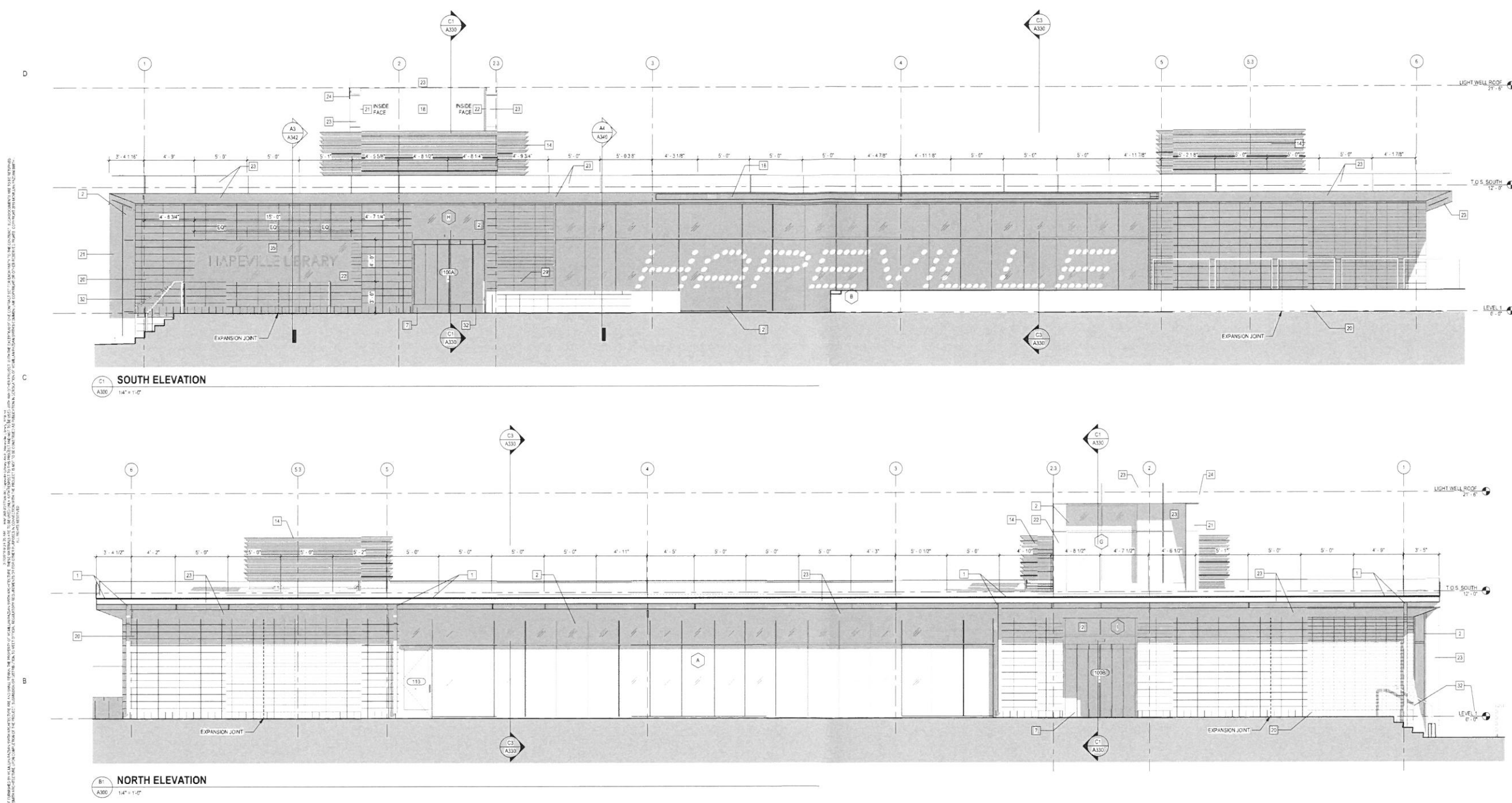


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HAPEVILLE, GA

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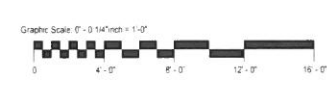
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- SHEET KEYNOTES**
1. 8" GUTTER WITH GUTTER GUARDS AND DOWNSPOUTS WITH FLUOROPOLYMER FINISH TO MATCH ACM
 2. STOREFRONT SYSTEM W/ INSULATED GLAZING
 3. INTERIOR WALL WITH 4" STOREFRONT SYSTEM RIBBON WINDOW. REFERENCE SHEET A201
 4. INTERIOR STOREFRONT WALL SYSTEM. REFERENCE SHEET A202
 5. DISPLAY FURNITURE
 6. BOOK DROP TO BE INSTALLED @ 4' HFT MAX TO OPERABLE HEIGHT
 7. MOTORISED SLIDING DOOR
 8. RFID SECURITY GATE - REFERENCE TECHNOLOGY AND ELECTRICAL DWGS
 9. ROOF LADDER
 10. BOOK CARTS - BY OTHERS
 11. DRINKING FOUNTAIN W/ BOTTLE FILLER - REFERENCE PLUMBING DWGS
 12. AV DISPLAY - BY OTHERS. SEE TECHNOLOGY DRAWINGS
 13. 5'0" X 5'0" ROOF HATCH
 14. ARCHITECTURAL LOUVERS MECHANICAL SCREEN WITH STURDIOSTRUCT CURB MOUNTED FRAMING AND GATE FOR ACCESS
 15. MECHANICAL UNITS - REFERENCE MECHANICAL DWGS
 16. 7'0" X 5'0" ZINC-RIQUED ALUM PANELS WITH 7" DIAMETER CIRCLES FORMING LETTERS TO SPELL "HAPEVILLE"
 17. WHITE TPO ROOF MEMBRANE
 18. GREY TPO ROOF MEMBRANE - TO MATCH GREY ACM PANELS
 19. EXPOSED PAINTED STRUCTURAL DECKING 1/4" X 1/2" SLOPE - REFERENCE STRUCTURAL DWGS
 20. MEDIUM GREY UTILITY BRICK
 21. RED ACM PANELS
 22. WHITE ACM PANELS
 23. METALLIC GREY ACM PANELS
 24. DIMENSIONAL BLDG SIGNAGE ON STAND-OFFS - REFERENCE WAYFINDING DWGS. COORDINATE REGD BLOCKING W/ SIGNAGE AND ACM MFRS
 25. PAINTED HOLLOW METAL DOOR
 26. AEROSOL STEEL STRUCTURE
 27. MILLWORK DISPLAY CABINET
 28. MOTORISED PROJECTION SCREEN. COORDINATE INSTALL OF SCREEN AND FINISHED CEILING
 29. BIKE RACK SEE LANDSCAPE DRAWINGS
 30. LIGHT SCOOP ROOF
 31. MECHANICAL VENT. REFERENCE MECHANICAL DWGS
 32. ALUMINUM HAND RAIL. REFERENCE LANDSCAPE DWGS
 33. TPO TRAFFIC PAVING
 34. GATE WITH LOCK TO MATCH PANELS
 35. BACK-PAINTED GLASS PANEL. EDGE-LIT. ON STANDOFFS OVER ACM - REFERENCE WAYFINDING DWGS
 36. SITE WALL. REFERENCE LANDSCAPING DWGS
 37. 6" X 12" X 1/2" CMU. FCK. STPS. BARS: EPDM WALL. BASE TO 1/2" X 1/2" X 1/2" FPK. MPD. MPD. MPD.

EXTERIOR MATERIAL SCHEDULE	
MATERIAL	BASIS OF DESIGN - MANUFACTURER - COLOR - STYLE
UTILITY BRICK	BOD - TAYLOR BRICK 322. GRAY. WIRE CUT DEDUCTIVE AL17 STAINED BRICK
SILVER ACM PANEL	BOD - ALUCOBOND. SILVER METALLIC
RED ACM PANEL	BOD - ALUCOBOND. RED FIRE
WHITE ACM PANEL	BOD - ALUCOBOND. ALABASTER
PAINTED STEEL	BOD - SHERWIN WILLIAMS. EXTRA WHITE. EGGSHELL (P-1)
STOREFRONT	BOD - KAWNEER 4511 SSG. CLEAR ANODIZED
METAL COPING, GUTTERS, AND DOWNSPOUTS	BOD - TBD. TO MATCH SILVER ACM



mcmillan pazdan smith
ARCHITECTURE

Albion

FULTON COUNTY LIBRARY SYSTEM

HAPEVILLE LIBRARY

525 KING ARNOLD STREET
HAPEVILLE, GA

SHEET ISSUE

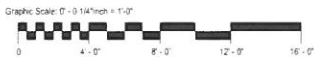
NO	DATE	DESCRIPTION	BY
1	5/21/2018	SCHEMATIC DESIGN	JA
2	11/06/2018	DESIGN DEVELOPMENT	WB
3	12/21/2018	50% CONSTRUCTION DOCUMENTS	AR
4	02/23/2019	100% CONSTRUCTION DOCUMENTS	

RELEASED FOR CONSTRUCTION

PRINCIPAL IN CHARGE: JA
PROJECT ARCHITECT: WB
DRAWN BY: AR

SHEET TITLE:
BUILDING ELEVATIONS

SHEET NO: A300
PROJ NO: 017505.00



1. 6" GUTTER WITH GUTTER GUARDS AND DOWNSPOUTS WITH FLUOROPOLYMER FINISH TO MATCH AC
2. STOREROOM SYSTEM WITH INSULATED GLAZING
3. STOREROOM WALL WITH 4" F STOREROOM SYSTEM RIBBON WINDOW REFERENCE SHEET A520
4. INTERIOR STOREROOM WALL SYSTEM REFERENCE SHEET A600
5. DISPLAY FURNITURE
6. BOOK DROP TO BE INSTALLED @ 48" MAX TO OPERABLE HEIGHT
7. MOTORIZED SLIDING DOOR
8. RFID SECURITY GATE REFERENCE TECHNOLOGY AND ELECTRICAL DWGS
9. ROOF LADDER
10. BOOK CARTS BY OTHERS
11. DRINKING FOUNTAIN BY BOTTLE FILLER REFERENCE PLUMBING DWGS
12. AV DISPLAY BY OTHERS SEE TECHNOLOGY DRAWINGS
13. 3" O X 3" ROOF HATCH
14. ARCHITECTURAL WINDOWS MECHANICAL SCREEN WITH STURDSTRUCT CURB WINDSTOP FRAMING AND GATE FOR ACCESS
15. MECHANICAL UNITS REFERENCE MECHANICAL DWGS
16. 7" X 1" X 1/2" CNC ROUTED ALUM PANELS WITH 7" DIAMETER CIRCLES FORMING LETTERS TO SPELL "HAVE IVEL"
17. WHITE TPO ROOF
18. GREY TPO ROOF MEMBRANE TO MATCH GREY ACM PANELS
19. EXPOSED PAINTED STRUCTURAL DECKING, 14' X 12' SLOPE REFERENCE STRUCTURAL DWGS
20. MEDIUM GREY UTILITY BRICK
21. RED ACM PANELS
22. WHITE ACM PANELS
23. METALLIC GREY SIGNS
24. 3 DIMENSIONAL BLD SIGNALS ON STAND OFFS REFERENCE W/AYFINDING DWGS COORDINATE REQ'D BLOCKING W
25. SIGNAGE AND ACM FINISH
26. PAINTED HOLLOW MET. DOOR
27. AESS STEEL STRUCTURE
28. MILWOKU DISPLAY CABINET
29. MOTORIZED PROJECTION SCREEN, COORDINATE INSTALL OF SCREEN AND FINISHED CEILING
30. BACK BACK SEE LANDSCAPE DRAWINGS
31. LIGHT SCORP ROOF
32. MECHANICAL VENT REFERENCE MECHANICAL DWGS
33. ALUMINUM PANEL RAIL REFERENCE LANDSCAPE DWGS
34. TPO TRAFFIC PADDOING
35. GATE WITH LOCK TO MATCH PANELS
36. BACK-PAINTED GLASS PANEL, EDGE-UP, ON STANDOFFS OVER ACM REFERENCE W/AYFINDING DWGS
37. SITE WALL
38. STAINLESS STEEL STAIR HANDS, ROPWAYS, ROPE TOE BAR & CABLES

MATERIAL	BASIS OF DESIGN, MANUFACTURER, COLOR, STYLE
UTILITY BRICK	BOD - TAYLOR BRICK, 322, GRAY WIRE CUT DEDUCTIVE ALT: STAINED BRICK
SILVER ACM PANEL	BOD - ALUCOBOND, SILVER METALLIC
RED ACM PANEL	BOD - ALUCOBOND, RED FIRE
WHITE ACM PANEL	BOD - ALUCOBOND, ALABASTER
PAINTED STEEL	BOD - SHERWIN WILLIAMS, EXTRA WHITE, EGGSHELL (P-1)
STONEFOAM	BOD - KAWNEER 4517 55% CLEAR ANODIZED
METAL CORING, GUTTERS, AND DOWNSPOUTS	BOD - TBD, TO MATCH SILVER ACM



Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	2.2 fc	3.6 fc	0.9 fc	4.0:1	2.4:1

1. Readings are shown in units of maintained footcandles.
2. Total Light Loss Factor (LLF) = .912 LLF for LED
3. Test Plane = 0' Above grade
4. Fixture Mounting Height = 30' Above grade
5. Fixture Spacing = See Plan view.
6. This photometric layout was calculated using specific criteria. Any deviation from stated parameters will affect actual performance.
7. These lighting calculations are not a substitute for independent engineering analysis of lighting system suitability and safety.

Disclaimer

This lighting design is not a professional engineering drawing and is provided for informational purposes only, without warranty as to accuracy, completeness, reliability or otherwise. Frazier Photometrics is not responsible for specifying the lighting or illumination requirements for any specific project. It is the obligation of the end-user to consult with a professional engineering advisor to determine whether this lighting design meets the applicable project requirements for lighting system performance, safety, suitability and effectiveness for use in a particular application. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual field performance to differ from the calculated photometric performance represented in this lighting design. In no event will Frazier Photometrics be held responsible for any loss resulting from any use of this lighting design.

Designer
KF
Date
1/22/2019
Scale
As Shown
Drawing No.
601519A2
Summary