# BROOK RUN PARK MULTI-USE TRAIL - PHASE II

SITE DEVELOPMENT PLANS PREPARED FOR: THE CITY OF DUNWOODY, GEORGIA

SITE/CIVIL SHEET INDEX



**DESIGN PROFESSIONA** CERTIFICATION#14361

RAI BRAINWO

NO. DATE INITIAL REQUESTED BY

SHEET TITLE **COVER SHEET** 

9/20/2013

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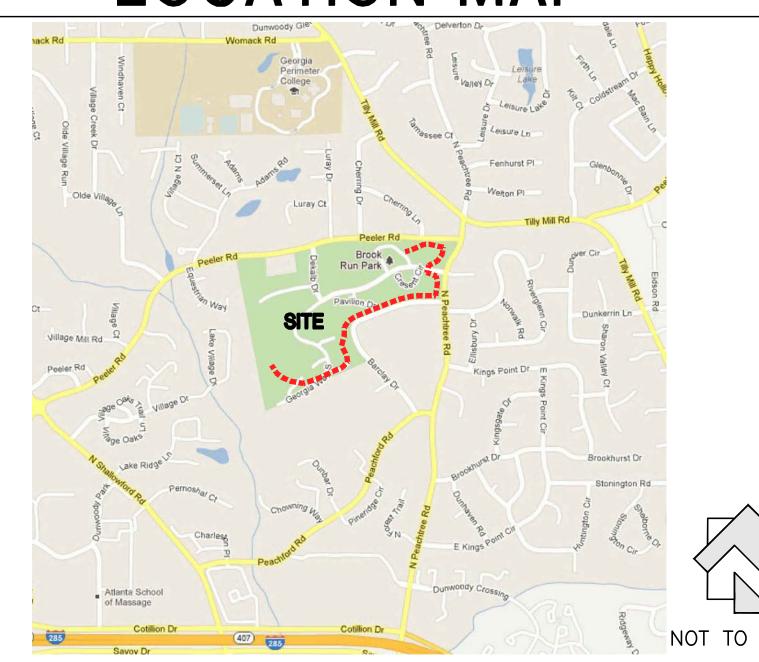
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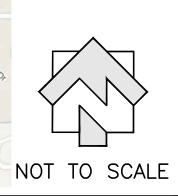
SITE STRUCTURAL PLANS BY EMC STRUCTURAL ENGINEERS

SECTIONS AND DETAILS **GENERAL NOTES/SPECIAL INSPECTION PLAN** 

CALL BEFORE YOU DIG (800) 282-7411

# LOCATION MAP





# SITE INFORMATION

SITE ADDRESS: 4770 NORTH PEACHTREE ROAD, DUNWOODY, GA 30338

PIN: 18-354-01-005

EXISTING AND PROPOSED USE: MUNICIPAL PARK

TOTAL SITE AREA: ±103.0 AC TOTAL PROJECT AREA: ±4.3 AC

TOTAL ON-SITE DISTURBED AREA: ±4.1 AC

# OWNER/DEVELOPER/ PRIMARY PERMITTEE

CITY OF DUNWOODY PARKS & RECREATION DEPARTMENT 41 PERIMETER CENTER EAST, SUITE 250, DUNWOODY, GA 30346

24 HR. CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL: BRENT WALKER, CITY OF DUNWOODY PARKS AND RECREATION MANAGER 678-382-6700 BRENT.WALKER@DUNWOODYGA.GOV

**COVER SHEET GENERAL NOTES EXISTING CONDITIONS/DEMOLITION PLAN EXISTING CONDITIONS/DEMOLITION PLAN EXISTING CONDITIONS/DEMOLITION PLAN EXISTING CONDITIONS/DEMOLITION PLAN** LAYOUT PLAN SHEETS KEY LAYOUT PLAN LAYOUT PLAN LAYOUT PLAN

LAYOUT DATA **GRADING PLAN SHEETS KEY GRADING PLAN** 

LAYOUT PLAN

**GRADING PLAN GRADING PLAN GRADING PLAN** 

#### STORM DRAINAGE PROFILES AND PIPE CHART

EROSION AND SEDIMENT CONTROL SHEETS KEY EROSION AND SEDIMENT CONTROL PLAN PHASE **EROSION AND SEDIMENT CONTROL PLAN PHASE II EROSION AND SEDIMENT CONTROL PLAN PHASE III EROSION CONTROL NOTES EROSION CONTROL NOTES** 

DRAINAGE AND EROSION CONTROL DETAILS DRAINAGE AND EROSION CONTROL DETAILS

SITE DETAILS SITE DETAILS SITE DETAILS

C2.85

C2.87

C4.01

C4.03

LANDSCAPE PLAN SHEETS KEY LANDSCAPE PLAN LANDSCAPE PLAN LANDSCAPE PLAN LANDSCAPE PLAN

**EROSION CONTROL NOTES** 

**RETAINING WALL A PLAN** RETAINING WALL B PLAN **RETAINING WALLS A & B ELEVATIONS** SECTIONS AND DETAILS

# DESIGNER

LANDSCAPE ARCHITECT/CIVIL ENGINEER LOSE & ASSOCIATES, INC.

LANDSCAPE ARCHITECTS • ARCHITECTS • CIVIL ENGINEERS 220 W. CROGAN ST., SUITE 100 LAWRENCEVILLE, GEORGIA 30046 1314 5TH AVENUE NORTH, SUITE 200 NASHVILLE, TENNESSEE 37208 PHONE 770-338-0017
CONTACT: JOHN NICOL JNICOL@LOSEASSOC.COM

THIS SITE IS LOCATED WITHIN A SHADED ZONE X AS DEFINED BY FIRM

COUNTY, GEORGIA EFFECTIVE DATE MAY 7, 2001.

COMMUNITY PANEL NUMBER 13089C0016 H FOR UNINCOPORATED DEKALB

FLOOD INSURANCE RATE MAP DeKALB COUNTY. AND INCORPORATED AREAS

13089C0016 H EFFECTIVE DATE:

NATIONAL FLOOD INSURANCE PROGRAM

# ABBREVIATIONS ASPH - ASPHALT NUMBER

BC - BOTTOM OF CURB

CENTERLINE

CO - COMPANY

CONT - CONTINUOUS

CY - CUBIC YARD

DIA – DIAMETER

ELEC - ELECTRIC

EX - EXISTING

FL — FLOW LINE

GALV - GALVANIZED

HEIGHT

JUNC - JUNCTION

LF - LINEAR FEET

MANHOLE

MPH - MILES PER HOUR

NIC - NOT IN CONTRACT

MAX — MAXIMUM

MIN — MINIMUM

HIGH POINT

ID - INSIDE DIAMETER

LC - LIMITS OF CLEARANCE

LOC - LIMITS OF CONSTRUCTION

NOTE: THESE ABBREVIATIONS ARE GENERAL

INDIVIDUAL SHEETS MAY INCLUDE OTHERS

FT

ELEV - ELEVATION

FH - FIRE HYDRANT

DR - DRIVE

BFP - BACKFLOW PREVENTER

BOTTOM OF STEP

BOTTOM OF WALL

EXPANSION JOINT

CONTROL JOINT

OC - ON CENTER

OD - OUTSIDE DIAMETER

PD — PERFORATED DRAIN

POB - POINT OF BEGINNING

PL - PROPERTY LINE

PP - POWER POLE

ROW - RIGHT OF WAY

R - RADIUS

SERV - SERVICE

SQ - SQUARE

SIG - SIGNAL

STA - STATION

ST - STREET

SCH - SCHEDULE

SF - SQUARE FEET

SY - SQUARE YARD

SPECS - SPECIFICATIONS

TELEPHONE

TC - TOP OF CURB

TS - TOP OF STEP

TW - TOP OF WALL

WS - WATER SERVICE

WWF - WELDED WIRE FRAME

WV - WATER VALVE

TYP - TYPICAL

W - WATER

VERT - VERTICAL

TG - TOP OF GRATE

TP - TOP OF PAVEMENT

TF - TOP OF FIELD (NON-PAVED)

S.F. - SILT FENCE

LAYOUT NOTES CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING REQUIRED ON THE PROJECT AND TO VERIFY THAT NO CONFLICTS EXIST BETWEEN EXISTING FACILITIES AND PROPOSED FACILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES IN EACH SECTION OF THE PROJECT

CONTRACTOR SHALL NOTIFY LOSE & ASSOCIATES WITHIN 24 HRS OF ANY LAYOUT DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. ALL ADDITIONAL COSTS, INCLUDING BUT NOT LIMITED TO REMEDIAL CONSTRUCTION, ADDITIONAL SITE VISITS OR ENGINEERING SERVICES AND FEES ETC., INCURRED DUE TO FAILURE TO FOLLOW THIS PROCEDURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ALL LAYOUT MEASUREMENTS ARE TO FACE OF CURB UNLESS OTHERWISE

COORDINATE POINTS ARE SET USING THE CONTROL PROVIDED BY THE SURVEYOR.

COORDINATE POINTS AT FENCING CORNERS REFER TO THE CENTER POINT OF THE POST - UNLESS OTHERWISE NOTED

COORDINATE POINTS AT PICNIC TABLES REFER TO THE CENTER OF THE MOUNTING POST.

REFER TO ARCHITECTURAL SET FOR DIMENSIONING THAT DIRECTLY REFERS TO ANY OF THE BUILDING PADS AND STRUCTURES ON SITE.

ALL WORK SHALL BE COMPLETED TO THE LEVEL INDICATED BY THE SCOPE OF WORK LISTED IN THE BID DOCUMENTS.

SEE ARCH. SHEETS FOR BUILDING CODE REQUIREMENTS RELATIVE TO SBCC1/BC CODE REQUIREMENTS

CONTRACTOR SHALL PROVIDE ADEQUATE LAYOUT INFORMATION TO DEMONSTRATE. TO THE MAXIMUM EXTENT PRACTICAL. THAT NO CONFLICTS BETWEEN VARIOUS TRADES EXIST.

DO NOT SCALE DRAWINGS.

DISTURBANCE.

VEHICLES, PRODUCTS, ETC.

NO BILLBOARDS ARE PERMITTED

DRAINAGE STRUCTURES ARE SHOWN TO INDICATE CASTING TYPE AND LOCATION. CONTRACTOR SHALL STAKE PROPOSED PAVING, STRUCTURES, CURBS, ETC. TO ENSURE DRAINAGE STRUCTURES ARE PLACED TO AVOID CONFLICTS. DRAINAGE STRUCTURES ARE NOT DRAWN TO SCALE.

ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY

FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND

NO OUTSIDE STORAGE PROPOSED. THIS INCLUDES SUPPLIES. EQUIPMENT.

ALL CONSTRUCTION TO COMPLY WITH THE CITY OF DUNWOODY STANDARDS

NATURAL VEGETATION SHALL REMAIN ON THE PROPERTY UNTIL ISSUANCE OF A

DEVELOPMENT PERMIT. NO INTERIM LAND DISTURBANCE PERMITS SHALL BE ISSUED.

ALL UTILITY LINES SHALL BE LOCATED UNDERGROUND.

DEVELOPMENT NOTES

# GRADING NOTES

- TOPSOIL SHALL BE STORED ON SITE IN LOCATIONS APPROVED BY THE OWNERS REPRESENTATIVE. DRAINAGE SHALL ROUTE AROUND THESE TOPSOIL STOCKPILES FOR THE DURATION OF THE GRADING OPERATIONS. EROSION CONTROL MEASURES SHALL PREVENT LOSS OF TOPSOIL MATERIAL.
- UNSUITABLE SOILS SHALL BE UNIFORMLY SPREAD ACROSS NON-STRUCTURAL FILL AREAS AND COVERED WITH TOPSOIL AND SEEDED.
- FILL AREAS SHALL BE PROOF-ROLLED WITH RUBBER-TIRED EQUIPMENT WITH A MINIMUM WEIGHT OF FIFTEEN TONS PRIOR TO BEGINNING FILL OPERATION. AREAS WHICH ARE SOFT OR UNSTABLE SHALL BE UNDERCUT UNTIL STABLE SOILS ARE FOUND. RECOMPACTION OF THESE SOILS, TO THE DENSITY SPECIFIED IN THE PROJECT SPECIFICATIONS, WILL BE ALLOWED UNDER THE DIRECTION OF A QUALIFIED SOILS ENGINEER.
- CUT AREA SHALL BE PROOF-ROLLED AFTER FINAL SUB GRADE IS ACHIEVED IN THE SAME MANNER AS FILLED AREAS. SOFT OR UNSTABLE SOILS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RECOMPACTED TO THE DENSITY SPECIFIED IN THE PROJECT SPECIFICATIONS AT NO ADDITIONAL COST TO THE CITY
- 5. SEE SPECIFICATIONS FOR SOIL COMPACTION RATES.
- 6. ALL FILL AREAS SHALL BE RAISED IN LIFTS NOT EXCEEDING 6 INCHES.
- 7. ALL GRADING SHALL BE COMPLETED TO THE LEVEL INDICATED BY THE SCOPE OF WORK LISTED IN THE BID DOCUMENTS.
- ALL AREAS WILL BE GRADED TO PROVIDE PROPER DRAINAGE AND PREVENT STANDING WATER.
- GRADING SHOWN IS TO FINISH GRADE.
- THE SUITABILITY OF SOILS SHALL BE DETERMINED BY A QUALIFIED SOILS ENGINEER EMPLOYED BY THE CITY OF DUNWOODY. ALL DECISIONS RENDERED BY THE SOILS ENGINEER, RELATED TO SOIL SUITABILITY, SHALL BE FINAL.

# CLEARING/GRUBBING

- 1. DO NOT EXCEED CLEARING AND GRUBBING LIMITS OF CONSTRUCTION LINES INDICATED ON THE PLANS.
- 2. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION LINE OR TREE SAVE FENCE SHALL NOT BE CROSSED BY EQUIPMENT OR USED FOR STORING EQUIPMENT OR TOXIC MATERIALS.
- NO EQUIPMENT OR VEHICLES SHALL BE STORED UNDER THE DRIP LINE OF TREES TO REMAIN.
- DO NOT FELL ANY TREES OR PUSH PILES OF DEBRIS AGAINST TREES
- REMOVE ALL STUMPS, ROCKS, ASPHALT & CONCRETE DEBRIS, ETC. AND DISPOSE OFF SITE IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- CONTACT ALL UTILITY AUTHORITIES WHO HAVE LINES WITHIN THE CLEARING AND GRUBBING LIMITS BEFORE STARTING WORK.
- ALL EROSION CONTROL SEDIMENT BARRIERS. SILT FENCES. AND TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO STARTING CLEARING AND GRUBBING OPERATIONS FOR EACH PHASE.
- 8. AFTER STAKING IS COMPLETED, TREES WITHIN GRADING LIMITS TO BE SAVED WILL BE IDENTIFIED BY THE OWNER'S REPRESENTATIVE. FIELD CHANGES TO GRADING PLANS SHALL BE MADE FOR SMOOTH TRANSITION OF GRADES AROUND ALL TREES WHICH REQUIRE TREE WELLS WITHIN THE GRADING LIMITS.

# CONSTRUCTION NOTES

AREAS FOR CONSTRUCTION THAT REQUIRE DE-WATERING FOR EXCAVATION WILL BE DONE AT NO ADDITIONAL COST TO THE CITY.

## DEMOLITION NOTES

- 1. COORDINATE REMOVAL OF ALL SITE AMENITIES WITH THE CONSTRUCTION MANAGER.
- 2. ALL EQUIPMENT AND MATERIAL REMOVED FROM THE SITE MUST BE INSPECTED BY THE CONSTRUCTION MANAGER PRIOR TO DISPOSAL. THE CITY OF DUNWOODY RESERVES THE RIGHT TO RE-CLAIM ALL EQUIPMENT AND MATERIALS ASSOCIATED WITH DEMOLISHED ITEMS ON THE PROPERTY FOR THEIR STORAGE AND RE-USE.
- 3. CONTRACTOR TO COORDINATE WITH THE APPROPRIATE AGENCIES REGARDING THE DISPOSAL OF ALL SUBSURFACE MATERIALS - SEPTIC SYSTEMS, GAS, WATER, SEWER, ELECTRIC SERVICE LINES, ETC. REFER TO THE SITE SURVEY FOR LOCATION OF THESE
- 4. NO OUTSIDE STORAGE PROPOSED. THIS INCLUDES SUPPLIES, EQUIPMENT, VEHICLES, & PRODUCTS, ETC. ALL STORAGE IS BEHIND CHAIN LINK FENCE W/PRIVACY SLATS.

# EROSION CONTROL

- EXPOSE AS SMALL AN AREA OF SOIL FOR AS SHORT A TIME AS POSSIBLE.
- KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
  - USE TEMPORARY VEGETATION AND/OR MULCH TO PROTECT BARE AREAS FROM EROSION DURING CONSTRUCTION.
- DISTURBED AREAS ARE TO BE GRADED TO DRAIN (AS INDICATED ON PLANS) TO SEDIMENT BARRIERS DURING AND UPON COMPLETION OF WORK.
- INSTALL TOP OF BANK DRAINS & EROSION CONTROL MATTING AS SHOWN ON EROSION CONTROL SHEETS.
- COMPLY WITH CITY & STATE EROSION CONTROL REQUIREMENTS & CONDITIONS SET FORTH ON EROSION CONTROL SHEETS AND PROJECT STORM WATER MANUAL.

## GENERAL NOTES

- THE CONTRACTOR IS TO CHECK AND VERIFY ALL MEASUREMENTS, LEVELS, EXISTING AND PROPOSED ELEVATIONS, ETC. BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK, AND IS TO BE RESPONSIBLE FOR THE SAME. REMEDIAL WORK RESULTING FROM LACK OF VERIFICATION WILL BE AT CONTRACTOR'S SOLE EXPENSE.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.
- CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES, TREES, ETC. WHICH ARE TO REMAIN AND NOT TO BE DISTURBED BY THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO SUCH PROPERTY.
- 4. ALL SURPLUS EXCAVATION SHALL BE DISPOSED OF OFF SITE COMPLYING WITH STATE AND LOCAL REGULATIONS, UNLESS NOTED ON THE PLANS, AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS AND PAY ALL PERMIT FEES. HE SHALL ALSO COMPLY WITH ALL CITY, COUNTY AND STATE BUILDING LAWS, ORDINANCES OR REGULATIONS RELATING TO BUILDING SIDEWALKS, STREETS, WATER MAINS, SEWERS, BLASTING, PUBLIC STRUCTURES, ETC.
- THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SITE IS ACCEPTED. AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER. THE CONTRACTOR WILL INDEMNIFY THE OWNER & ARCHITECT
- THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS FOR THE PROTECTION OF THE WORK AND THE PUBLIC. INCLUDING BARRICADES. WARNING SIGNS AND LIGHTS.

FROM LIABILITY AT THE SITE THROUGHOUT THE CONSTRUCTION PROCESS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, WHETHER CAUSED BY HIMSELF, HIS SUBCONTRACTORS, OR THE CARELESSNESS OF ANY OF HIS EMPLOYEES.
- THE CONTRACTOR SHALL PROVIDE SUCH BRACING, SHEETING AND SHORING, BLASTING PROTECTION, WARNING LIGHTS AND BARRICADES ETC. AS MAY BE NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY FOR HIS OWN EMPLOYEES AND THE GENERAL PUBLIC. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY STATUTES AND RULES REQUIRING CERTAIN PROTECTIVE PERSONAL APPAREL SUCH AS HARD HATS, EAR PLUGS, EYE SHIELDS, PROTECTIVE SHOES, ETC. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY OR LIABILITY FOR ACTIONS TAKEN BY THE CONTRACTOR WHICH ENDANGER LIFE OR PROPERTY.
- 10. ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND
- 11. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT THE NEW WORK SHALL FIT INTO THE EXISTING SITE IN THE MANNER INTENDED AND AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATING TO THE AREA.
- 12. LOSE AND ASSOCIATES, INC., ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE BASE SURVEY INFORMATION AS PROVIDED. CONTRACTOR IS TO VERIFY ALL BASE INFORMATION AS NECESSARY AND TO ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE TOTAL QUANTITY OF ITEMS SHOWN IN BOTH THE PLANS AND SPECIFICATIONS. SHOULD QUANTITY DIFFERENCES OCCUR BETWEEN THE PLANS AND SPECIFICATIONS. OR AS A RESULT OF AGENCY REQUIREMENT. THE GREATER QUANTITY OF ITEMS SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- NOT ALL ITEMS APPEAR ON ALL PLANS OR SPECIFICATION SECTIONS THE GENERAL CONTRACTOR SHOULD REVIEW THE ENTIRE SET OF PLANS AND SPECIFICATIONS AND IS RESPONSIBLE FOR ENSURING THAT ALL'ITEMS IN THE PLANS AND SPECIFICATIONS ARE PROVIDED AS PART OF THE BID.
- 15. MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES. DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIAL.
- 16. PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN. UNMARRED. AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY
- 17. DURING CONSTRUCTION AND FOR PERMANENT ACCESS, ROADWAYS CONSTRUCTED OF AN ALL WEATHER SURFACE CAPABLE OF SUPPORTING 75,000 POUNDS GROSS WEIGHT SHALL BE PROVIDED PER INTERNATIONAL FIRE CODE 2000 EDITION SECTION 503.2.3
- 18. FIRE HYDRANTS AND WATER MAINS ARE TO BE INSTALLED, FLUSHED, AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED
- 19. DURING CONSTRUCTION AND FOR PERMANENT ACCESS, ROADWAY WIDTH SHALL BE 20 FEET MINIMUM PER INTERNATIONAL FIRE CODE 2000 EDITION SECTION
- THE CONTRACTOR SHALL PERFORM ALL QUANTITY TAKEOFFS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT. LOSE & ASSOCIATES, INC. ACCEPTS NO RESPONSIBILITY NOR LIABILITY FOR QUANTITY TAKEOFFS PERFORMED FOR THIS PROJECT.
- 21. HDPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 AND AASHTO MP7, TYPE S & D. CONNECTIONS SHALL USE A RUBBER GASKET, WHICH CONFORMS TO ASTM F-477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30, OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
- 22. THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT OF ANY CONFLICTS BETWEEN PLAN SHEETS, OR PLAN SHEETS AND DETAILS BEFORE PROCEEDING WITH CONSTRUCTION. IF THE CONTRACTOR PROCEEDS WITH CONSTRUCTION PRIOR TO NOTIFYING THE ARCHITECT, THE COST OF ALL REMEDIAL WORK INCLUDING REMOVAL OF COMPLETED WORK, ADDITINAL DESIGN SERVICES, FEES, AND SITE VISITS INCURRED DUE TO THE FAILURE TO FOLLOW THIS PROCEDURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 23. ALL PLAN VIEW SHEETS ARE ORIENTED TO THE GEORGIA STATE PLANE COORDINATE SYSTEM. ALL NORTH ARROWS ARE SET ON THE GEORGIA GRID, AND ARE NOT MAGNETIC NORTH ARROWS.



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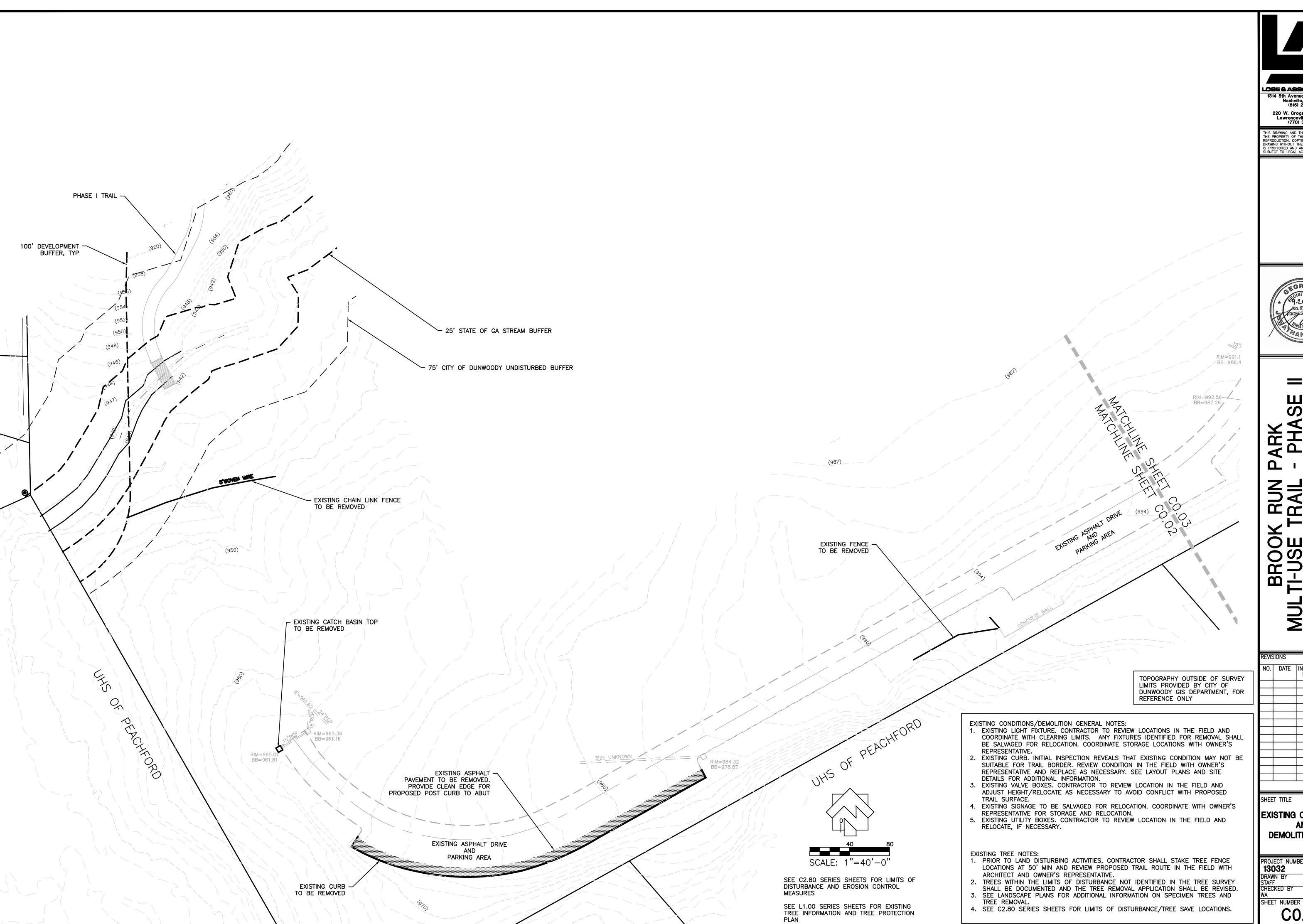
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SHEET TITLE **GENERAL NOTES** 

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY ISCALE STAFF CHECKED BY N/A

SHEET NUMBER C0.01



LOSE & ASSOCIATES, INC 220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017



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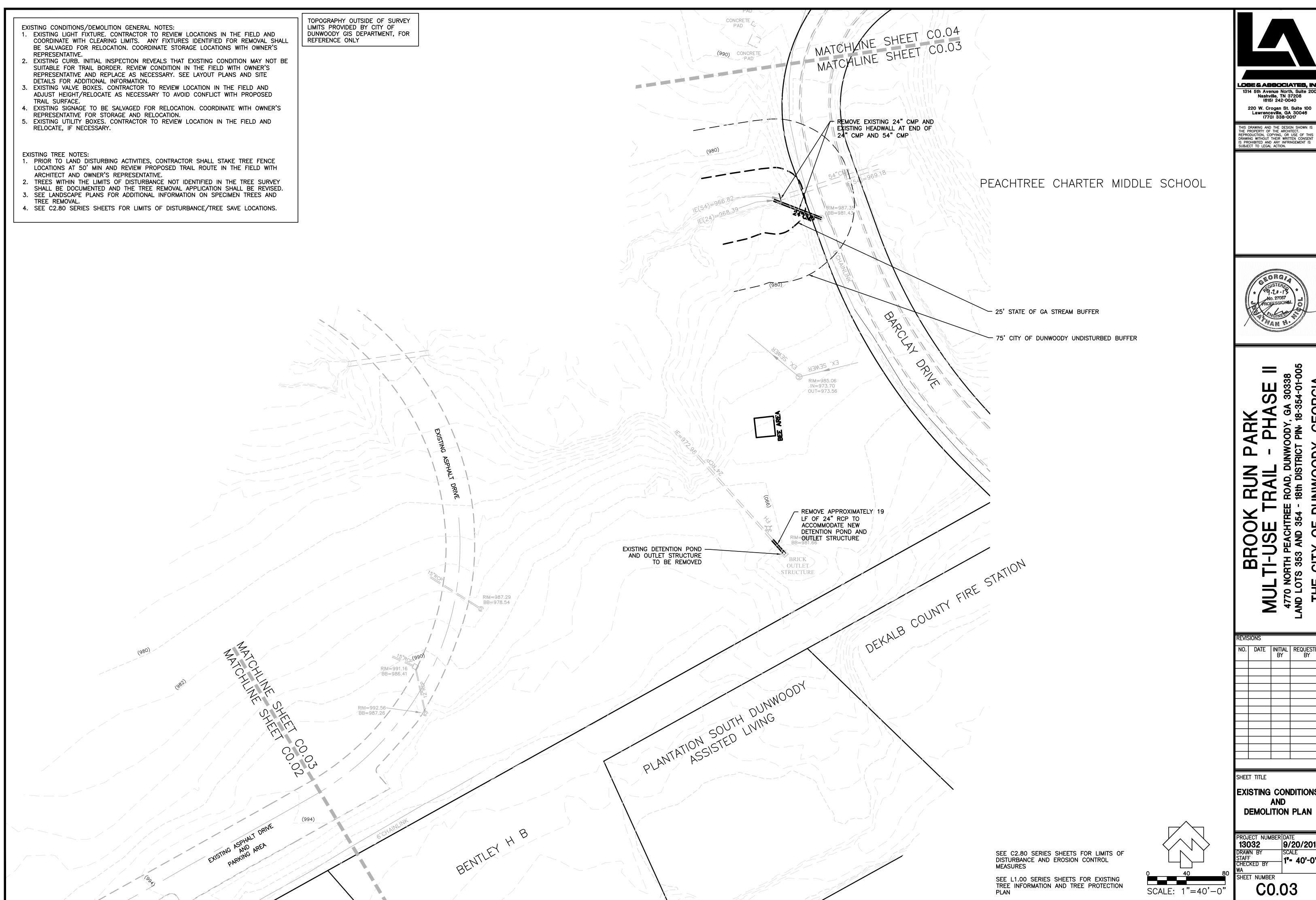
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**EXISTING CONDITIONS DEMOLITION PLAN** 

PROJECT NUMBER DATE 9/20/2013 SCALE

DRAWN BY STAFF CHECKED BY **--|1"- 40'-0"** 

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**EXISTING CONDITIONS** AND **DEMOLITION PLAN** 

PROJECT NUMBER DATE

13032

DRAWN BY
STAFF
CHECKED BY

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EXISTING CONDITIONS/DEMOLITION GENERAL NOTES: 1. EXISTING LIGHT FIXTURE. CONTRACTOR TO REVIEW LOCATIONS IN THE FIELD AND COORDINATE WITH CLEARING LIMITS. ANY FIXTURES IDENTIFIED FOR REMOVAL SHALL BE SALVAGED FOR RELOCATION. COORDINATE STORAGE LOCATIONS WITH OWNER'S REPRESENTATIVE. 2. EXISTING CURB. INITIAL INSPECTION REVEALS THAT EXISTING CONDITION MAY NOT BE SUITABLE FOR TRAIL BORDER. REVIEW CONDITION IN THE FIELD WITH OWNER'S REPRESENTATIVE AND REPLACE AS NECESSARY. SEE LAYOUT PLANS AND SITE DETAILS FOR ADDITIONAL INFORMATION. 3. EXISTING VALVE BOXES. CONTRACTOR TO REVIEW LOCATION IN THE FIELD AND ADJUST HEIGHT/RELOCATE AS NECESSARY TO AVOID CONFLICT WITH PROPOSED TRAIL SURFACE. 4. EXISTING SIGNAGE TO BE SALVAGED FOR RELOCATION. COORDINATE WITH OWNER'S REPRESENTATIVE FOR STORAGE AND RELOCATION. 5. EXISTING UTILITY BOXES. CONTRACTOR TO REVIEW LOCATION IN THE FIELD AND RELOCATE, IF NECESSARY. EXISTING TREE NOTES: 1. PRIOR TO LAND DISTURBING ACTIVITIES, CONTRACTOR SHALL STAKE TREE FENCE LOCATIONS AT 50' MIN AND REVIEW PROPOSED TRAIL ROUTE IN THE FIELD WITH ARCHITECT AND OWNER'S REPRESENTATIVE. TREES WITHIN THE LIMITS OF DISTURBANCE NOT IDENTIFIED IN THE TREE SURVEY SHALL BE DOCUMENTED AND THE TREE REMOVAL APPLICATION SHALL BE REVISED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SPECIMEN TREES AND 4. SEE C2.80 SERIES SHEETS FOR LIMITS OF DISTURBANCE/TREE SAVE LOCATIONS.

PAVILLION W/ STEPS

MATCHLINE SHEET CO.04

MATCHLINE SHEET CO.03

TOPOGRAPHY OUTSIDE OF SURVEY LIMITS PROVIDED BY CITY OF DUNWOODY GIS DEPARTMENT, FOR REFERENCE ONLY

EXISTING CHAIN LINK FENCE -

PEACHTREE CHARTER MIDDLE SCHOOL

TO BE REMOVED

EXISTING CONCRETE -SIDEWALK TO BE REMOVED

SIDEWALK CONNECTOR TO REMAIN (1)

LOSE & ASSOCIATES, INC. 1314 5th Avenue North, Suite 200 Nashville, TN 37208 (615) 242-0040 220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017

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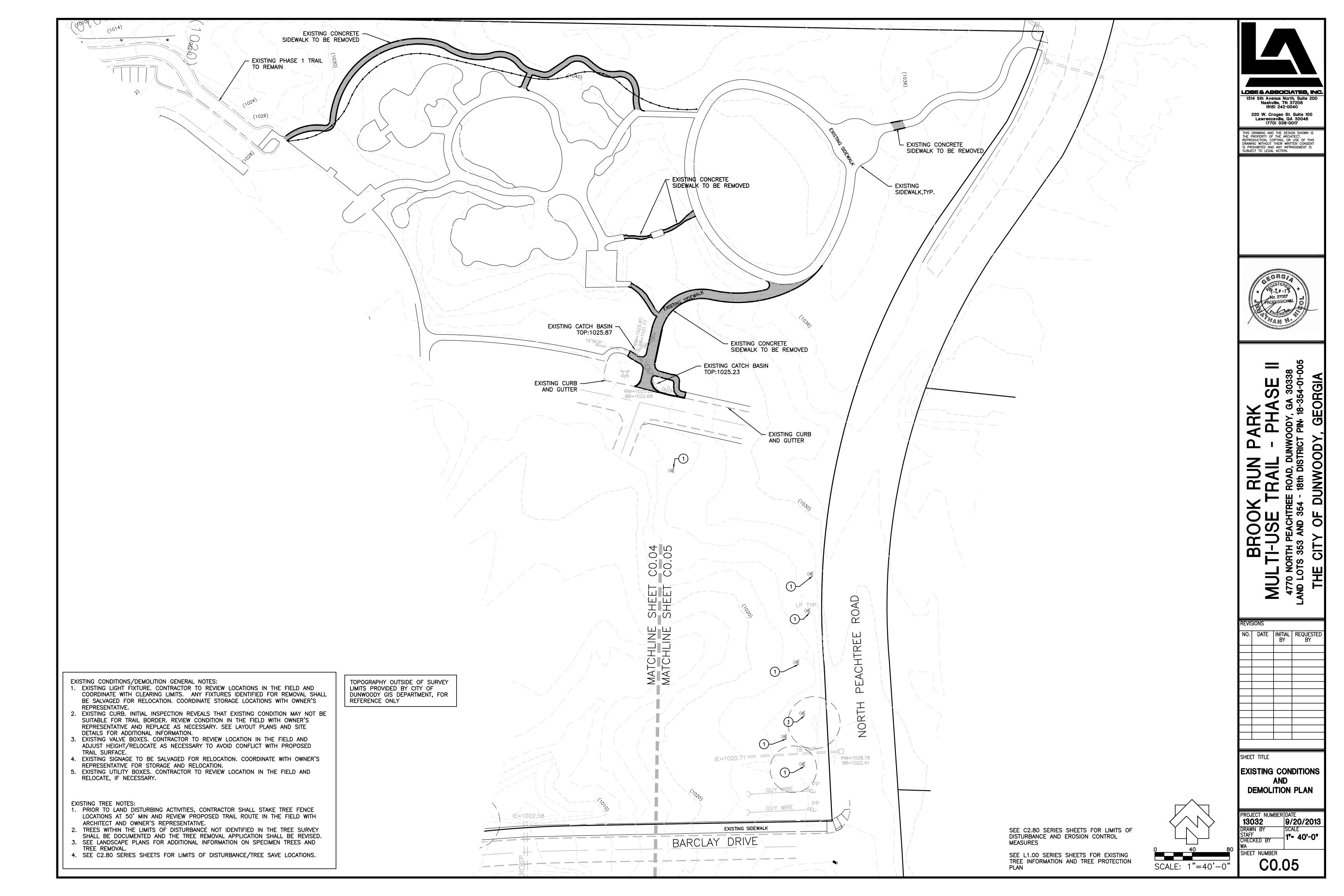
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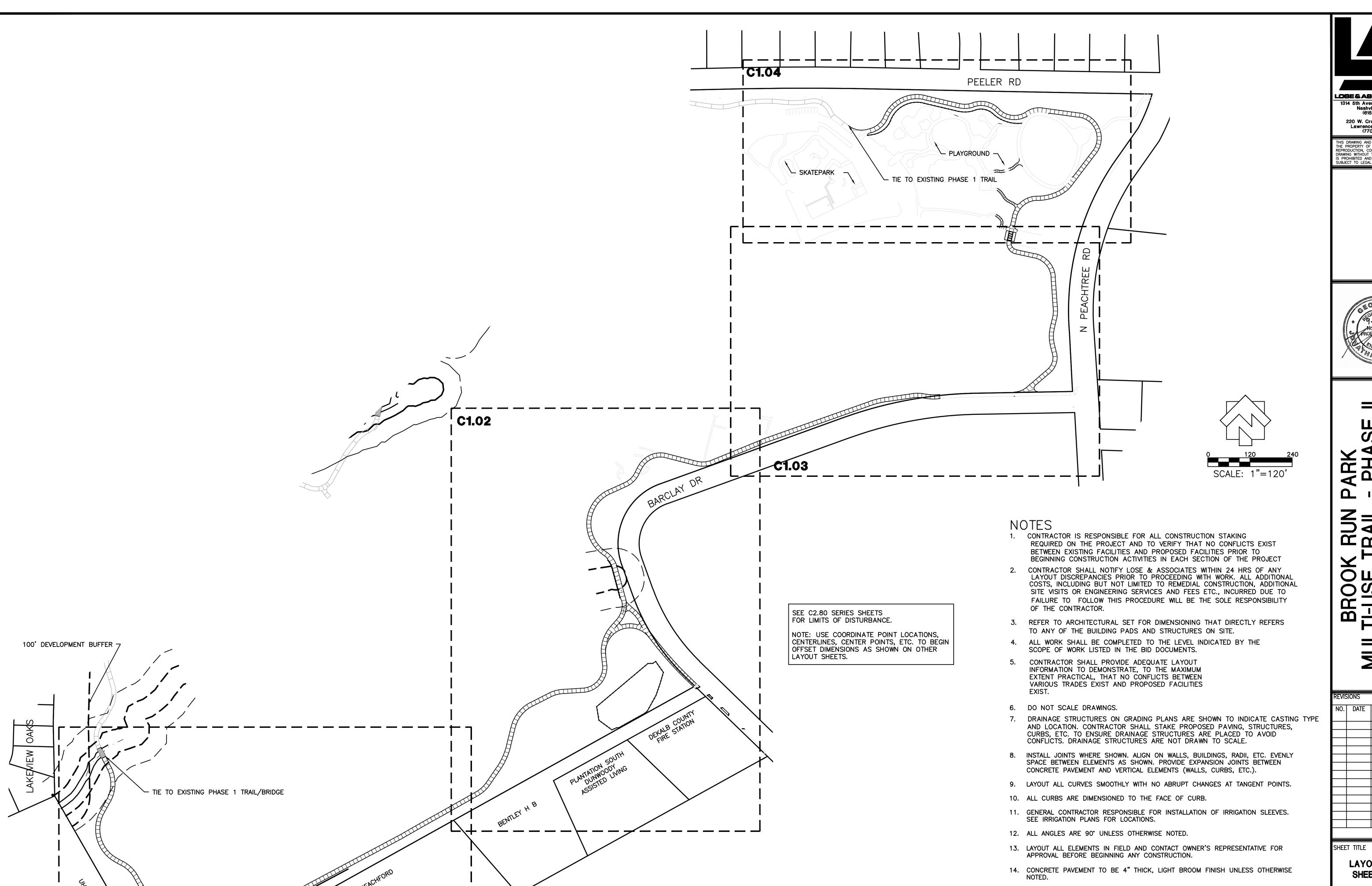
**EXISTING CONDITIONS** AND DEMOLITION PLAN

C0.04

SEE C2.80 SERIES SHEETS FOR LIMITS OF DISTURBANCE AND EROSION CONTROL MEASURES SEE L1.00 SERIES SHEETS FOR EXISTING TREE INFORMATION AND TREE PROTECTION PLAN SCALE: 1"=40'-0"

IE=1002.58





PROPERTY LINE, TYP.

C1.01



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NO. DATE INITIAL REQUESTED BY

15. CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL

16. ALL PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER

THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

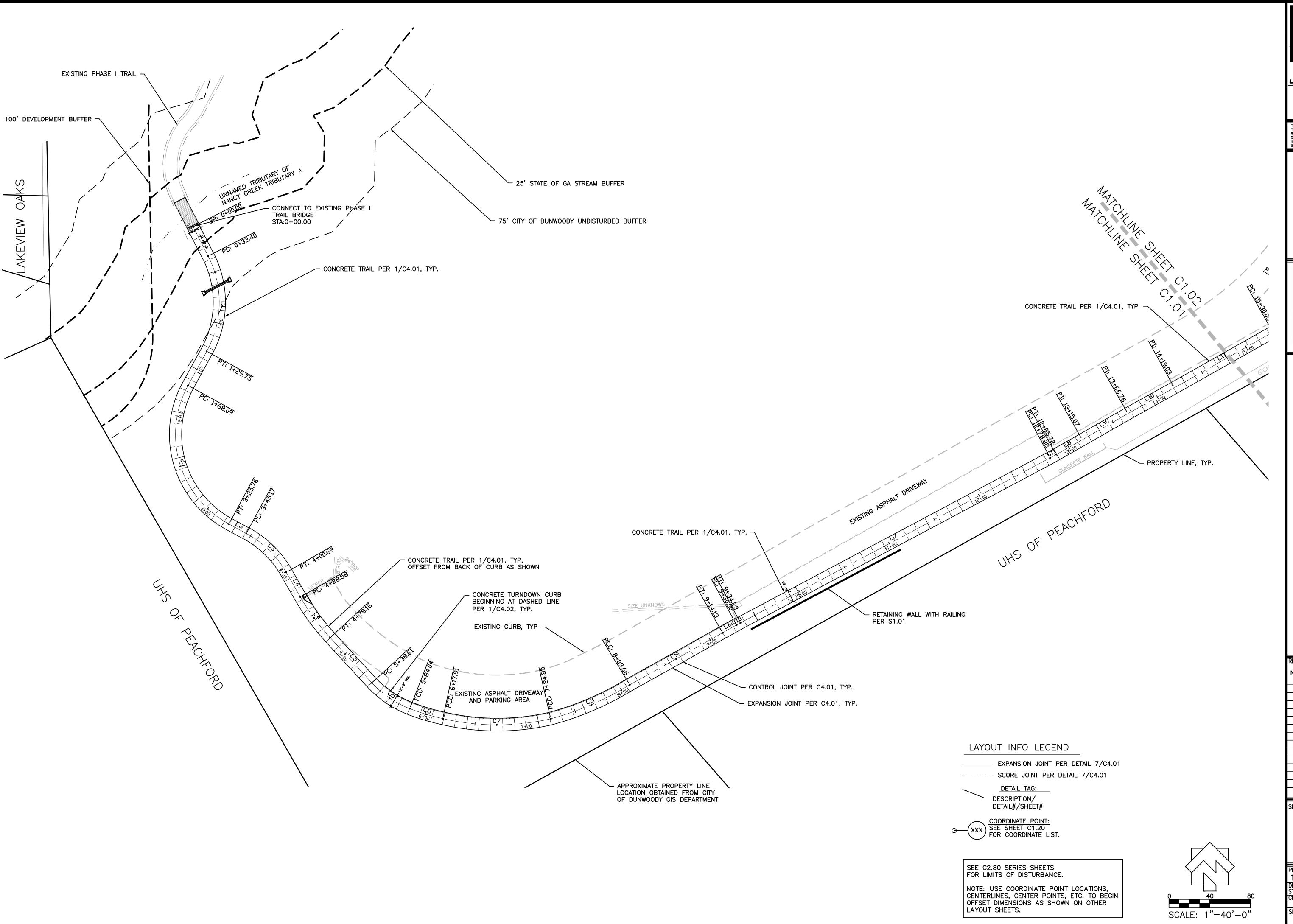
WHEN ESTIMATING.

UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER SUCH

LAYOUT PLAN SHEETS KEY

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY STAFF CHECKED BY **-- 120'** 

SHEET NUMBER C1.00



LOSE & ASSOCIATES, INC.

1314 5th Avenue North, Suite 200
Nashville, TN 37208
(615) 242-0040

220 W. Crogan St. Suite 100
Lawrenceville, GA 30046
(770) 338-0017

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BROOK RUN PAI
MULTI-USE TRAIL - P
4770 NORTH PEACHTREE ROAD, DUNWOOD
LAND LOTS 353 AND 354 - 18th DISTRICT PIR
THE CITY OF DUNWOODY, (

REVISIONS

NO. DATE INITIAL REQUESTED BY

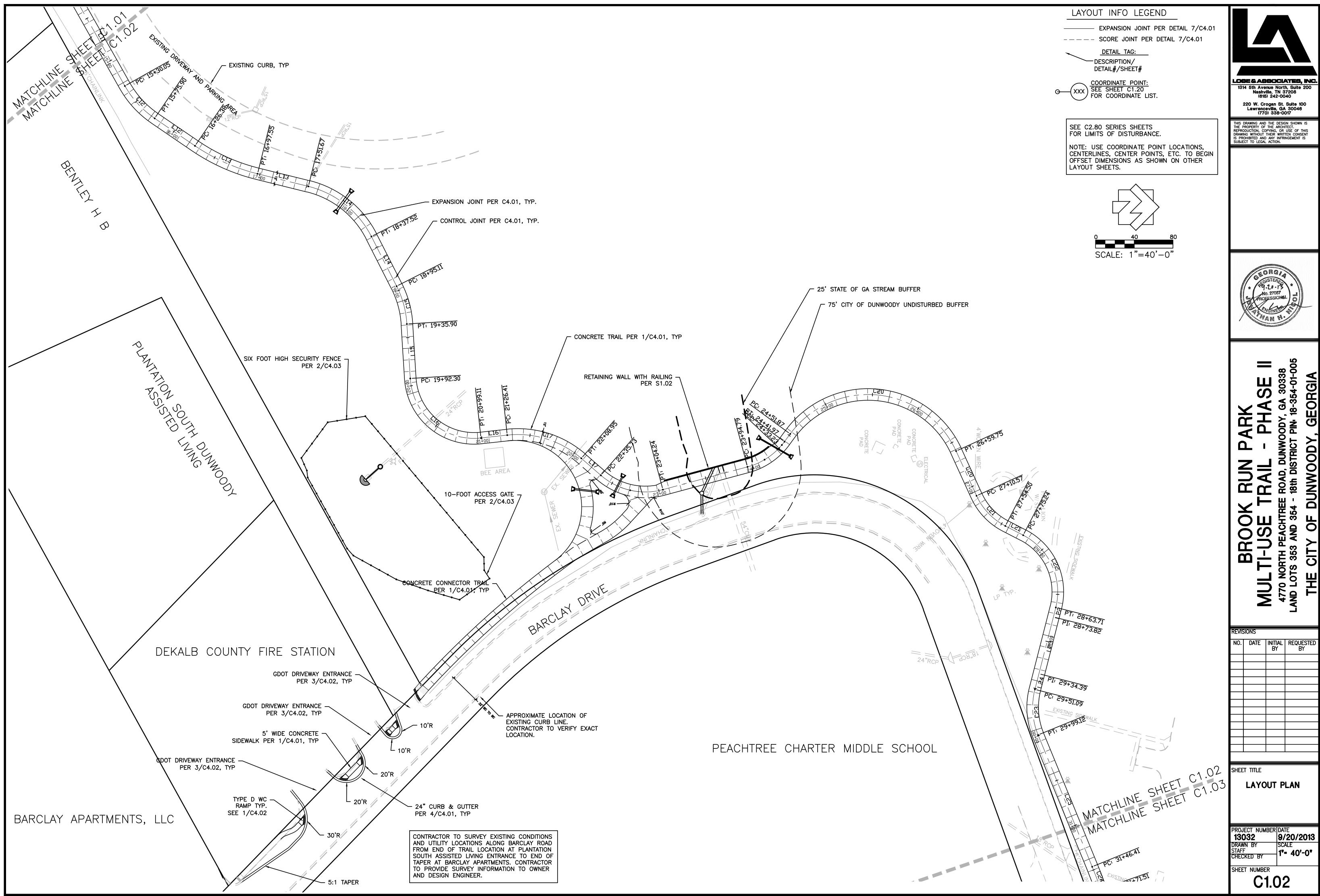
SHEET TITLE

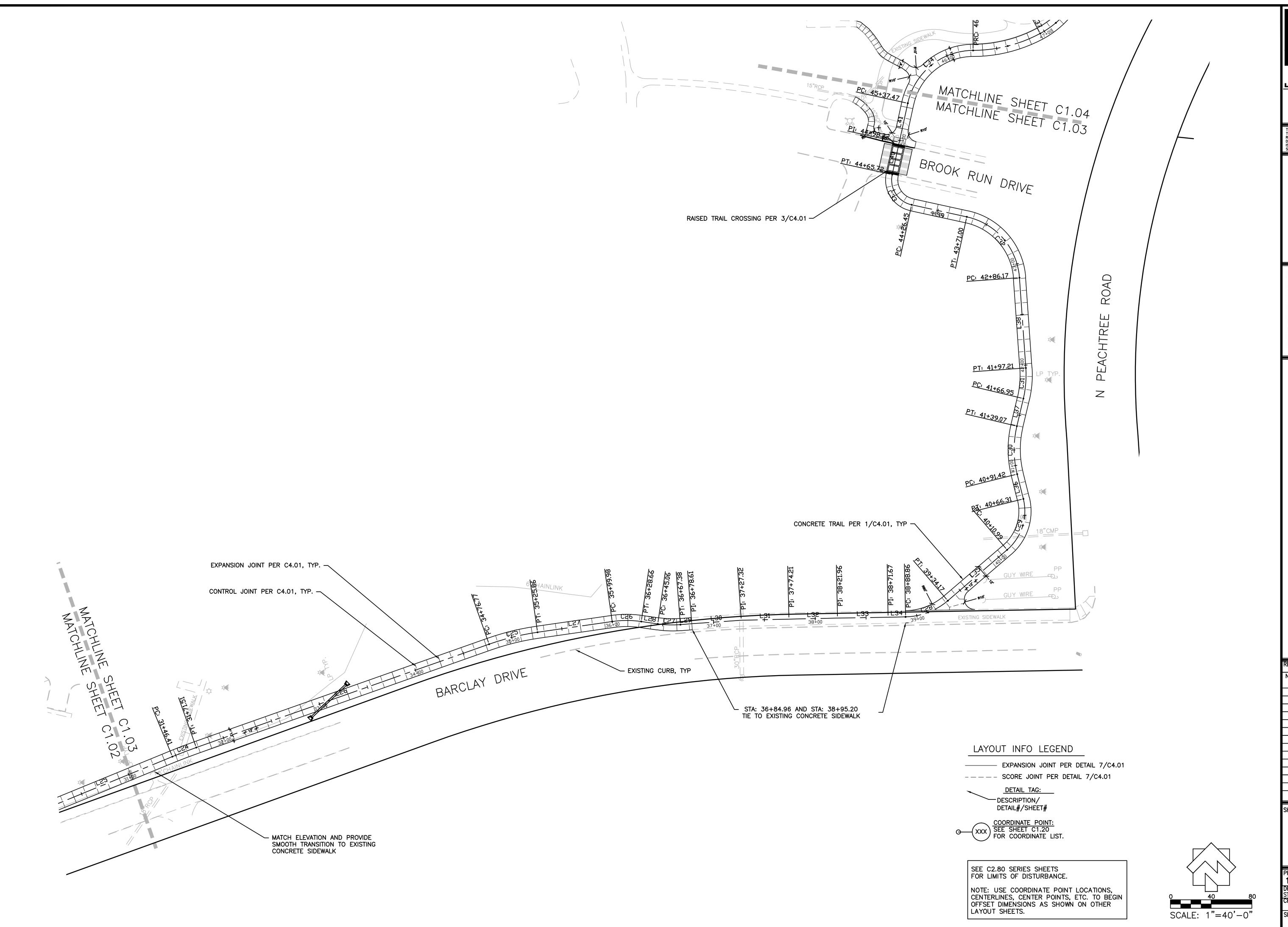
LAYOUT PLAN

PROJECT NUMBER DATE
13032 9/20/2013
DRAWN BY
STAFF
CHECKED BY

STAFF
CHECKED BY

SHEET NUMBER
C1.01





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IULTI-USE TRAIL - PHASE II

REVISIONS

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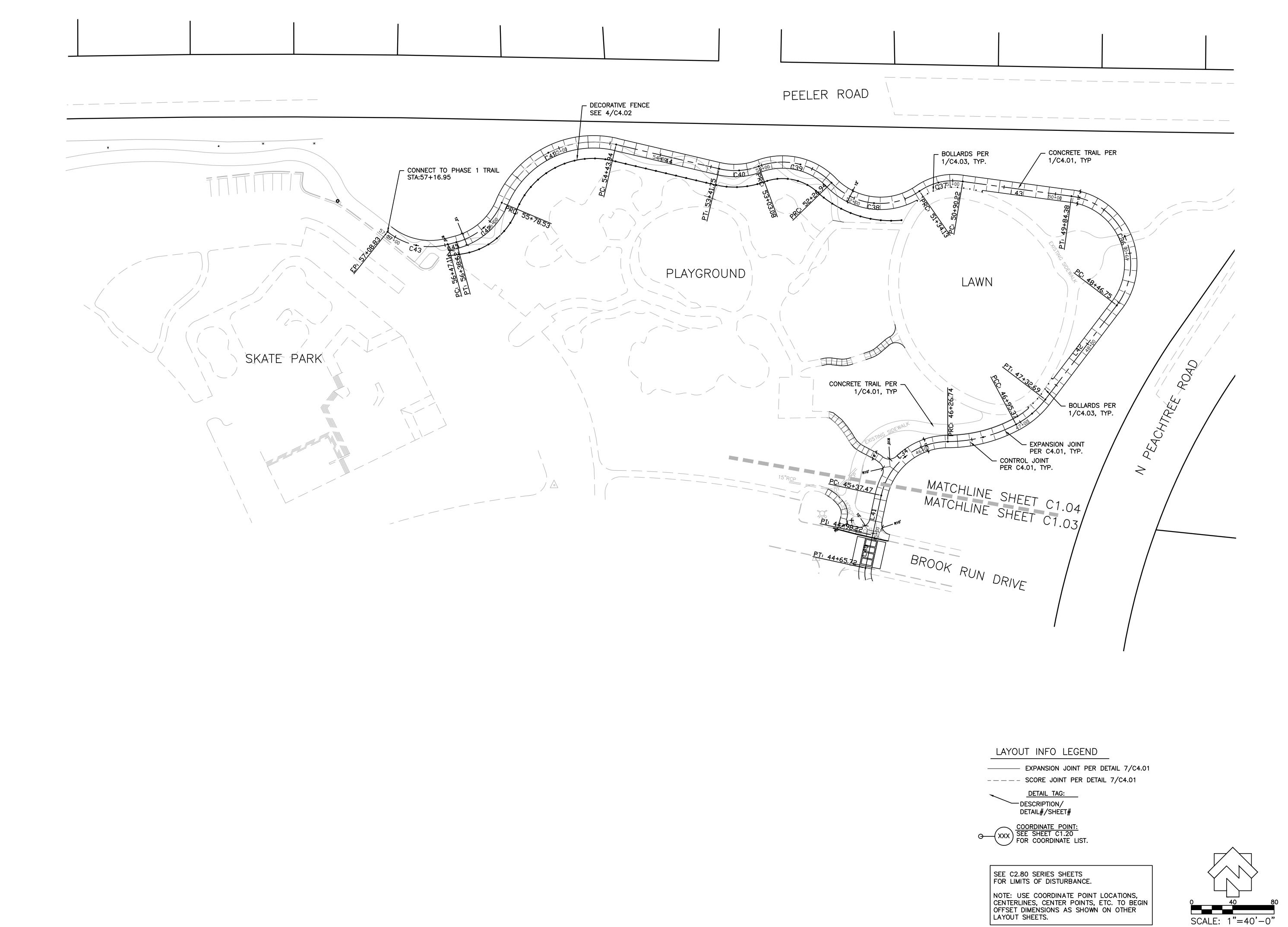
SHEET TITLE

LAYOUT PLAN

PROJECT NUMBER DATE
13032 9/20/2013
DRAWN BY SCALE
STAFF
CHECKED BY

PROJECT NUMBER DATE
STAFE
1°- 40'-0°

SHEET NUMBER
C1.03





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BROOK RUN PARK
MULTI-USE TRAIL - PHASE
A770 NORTH PEACHTREE ROAD, DUNWOODY, GA 30338
LAND LOTS 353 AND 354 - 18th DISTRICT PIN- 18-354-01-0
THE CITY OF DUNWOODY, GEORGIA

REVISIONS

NO. DATE INITIAL REQUESTED BY

SHEET TITLE

LAYOUT PLAN

PROJECT NUMBER DATE

13032 9/20/2013

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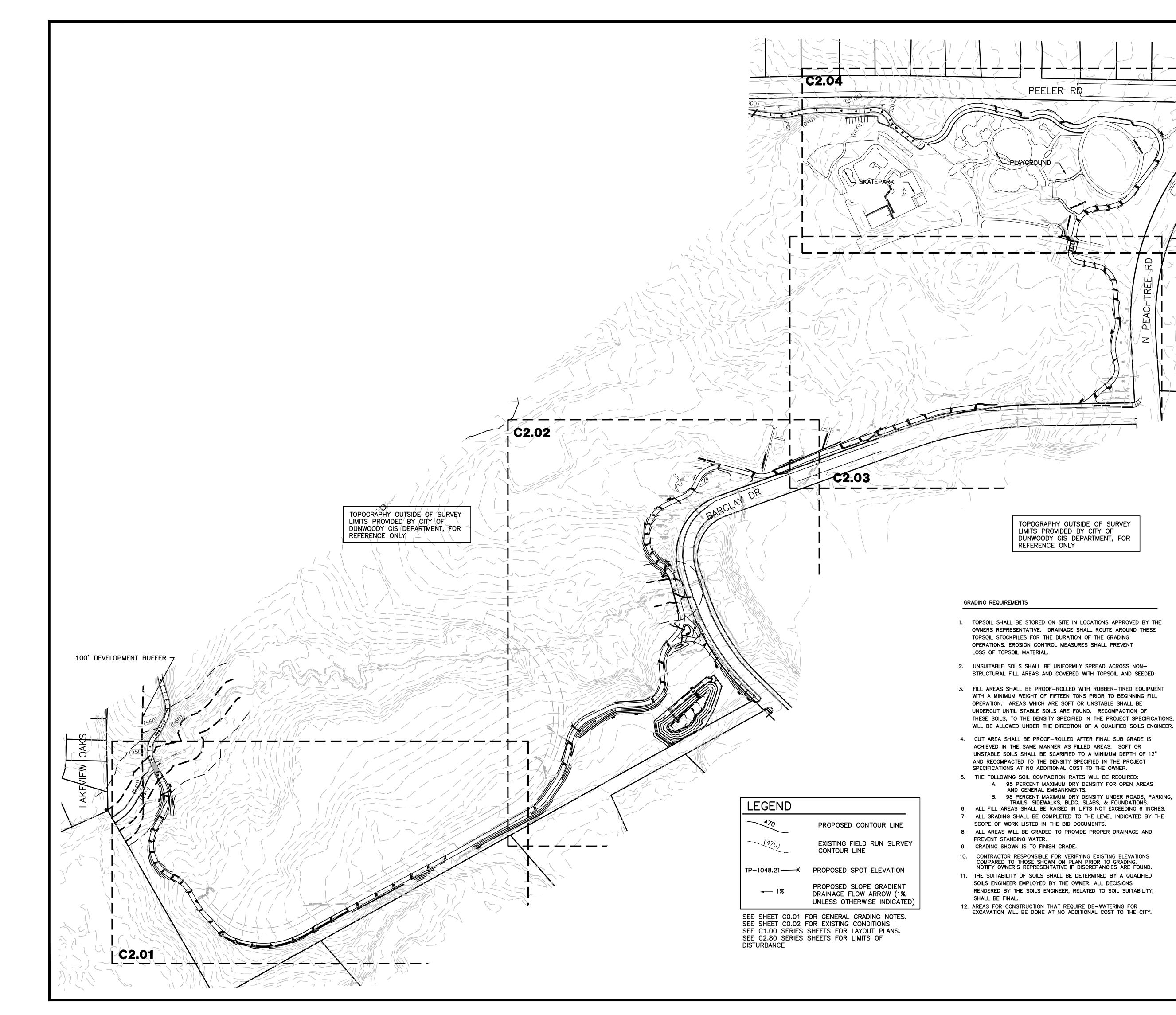
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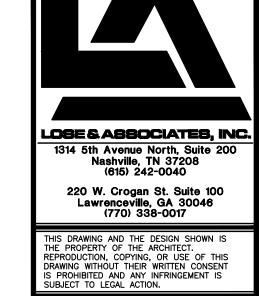
1\*- 40'-0\*

CHECKED BY

SHEET NUMBER

C1.04







## UTILITY NOTE:

- 1. UNDERGROUND UTILITIES: A. UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, DESIGNER, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL GEORGIA 811 (1-800-282-7411) B. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL
  - EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RE-SPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

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

ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE FLOOD INSURANCE RATE MAP, COMMUNITY MAP NUMBER 13089C0016H, DATED MAY 7, 2001, SHOWS ZONES "X".

#### WETLANDS NOTE

WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE WETLANDS AS SHOWN ON THE MAPS; AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.

## CITY OF DUNWOODY NOTES

- 1. CONTACT THE CITY OF DUNWOODY PLANNER/ARBORIST AT 678-382-6810 TO DETERMINE IF A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE IS REQUIRED. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS
- . UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED DUE TO APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO CITY PLANNER/ARBORIST APPROVAL. (DO NOT PLANT TREES WITHIN SANITARY SEWER EASEMENT).
- 3. CALL BEFORE YOU DIG (800) 282-7411.

SHEET TITLE

PROJECT NUMBER DATE

**GRADING PLAN** 

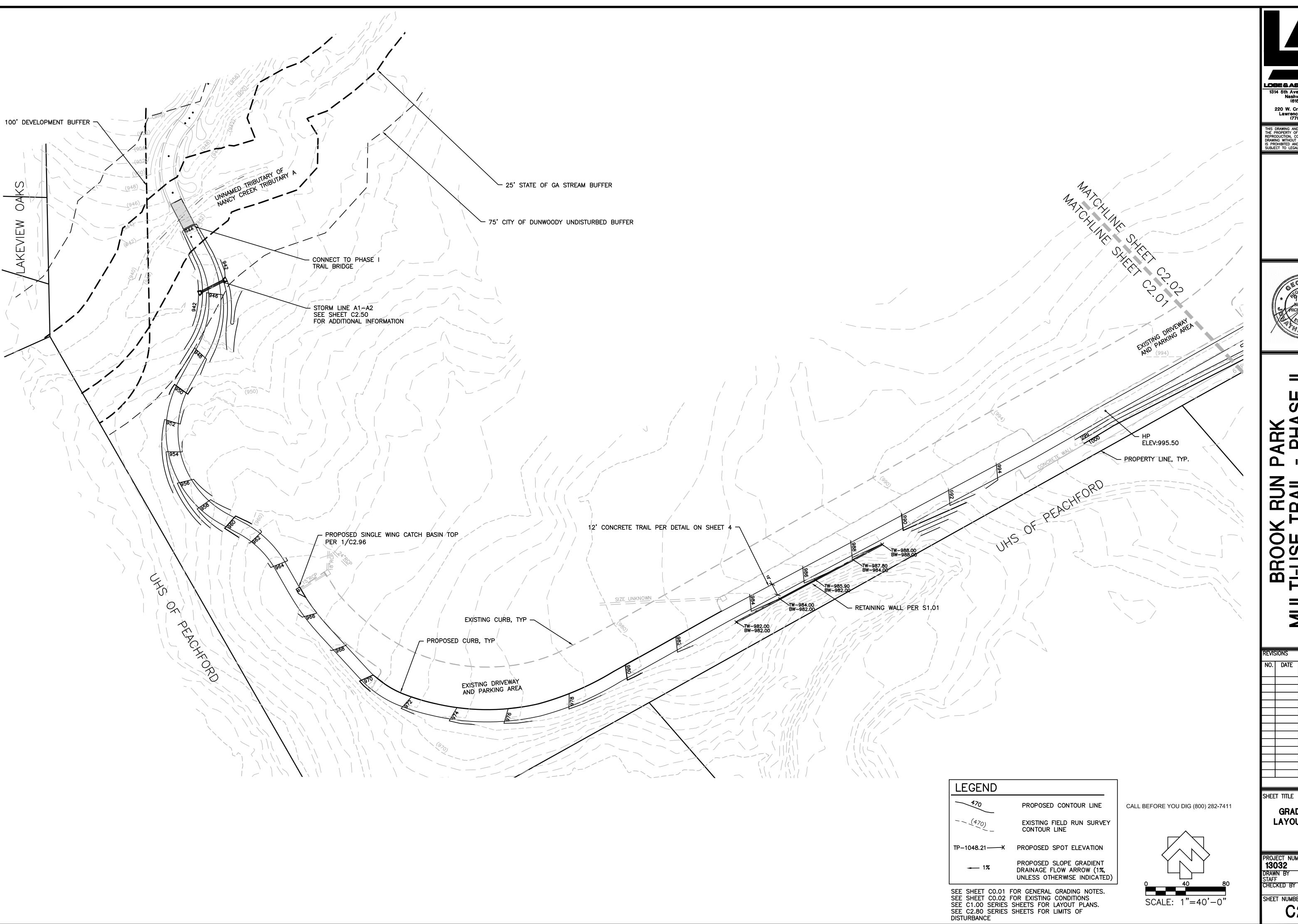
SHEETS KEY

NO. DATE INITIAL REQUESTED BY

13032 9/20/2013 CHECKED BY SHEET NUMBER

C2.00

CALL BEFORE YOU DIG (800) 282-7411



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**GRADING AND** LAYOUT EXHIBIT

PROJECT NUMBER DATE

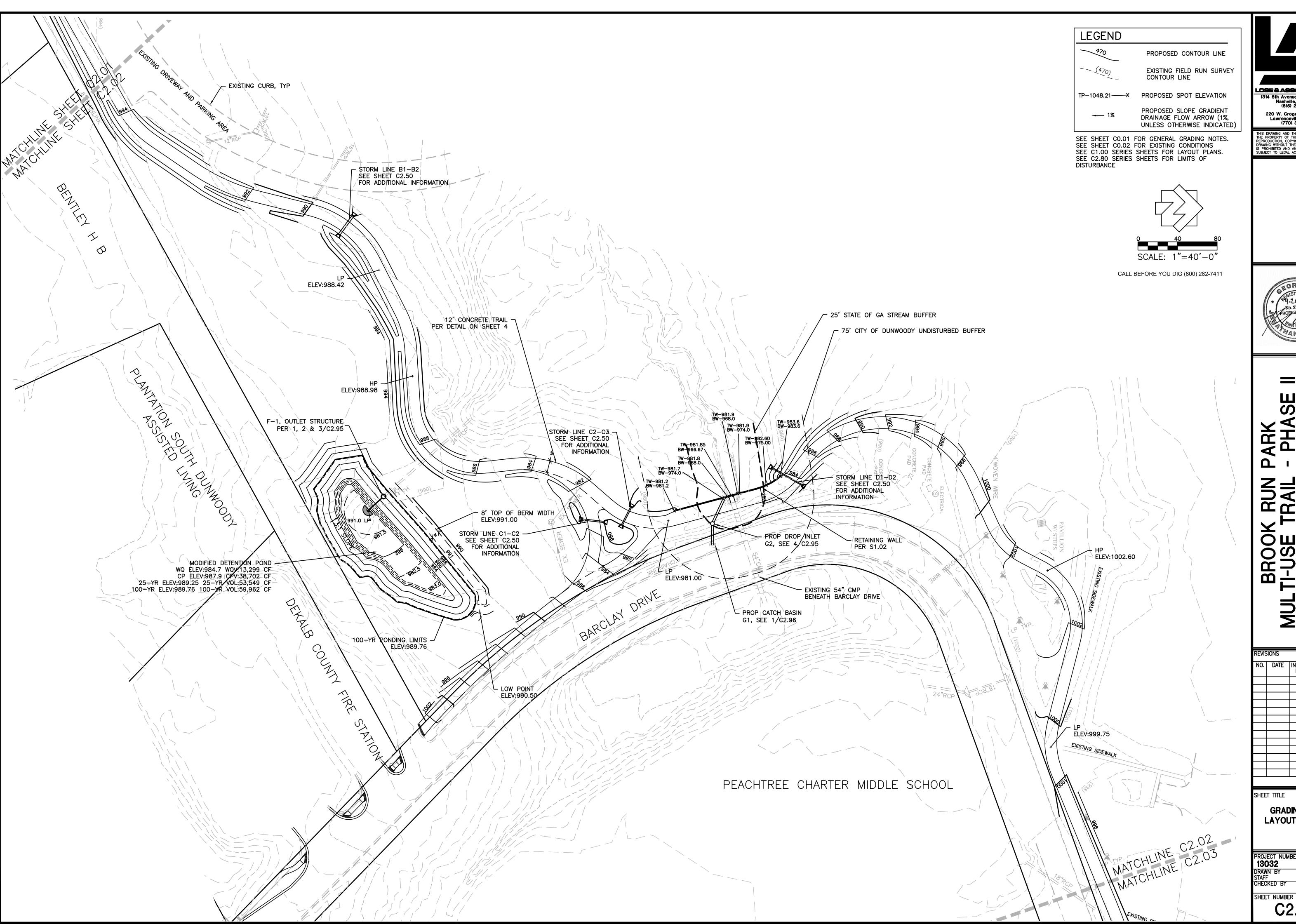
13032 9/20/2013

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STAFF
CHECKED BY

SCALE

1°- 40'-0°

SHEET NUMBER C2.01



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SHEET TITLE

**GRADING AND** LAYOUT EXHIBIT

PROJECT NUMBER DATE

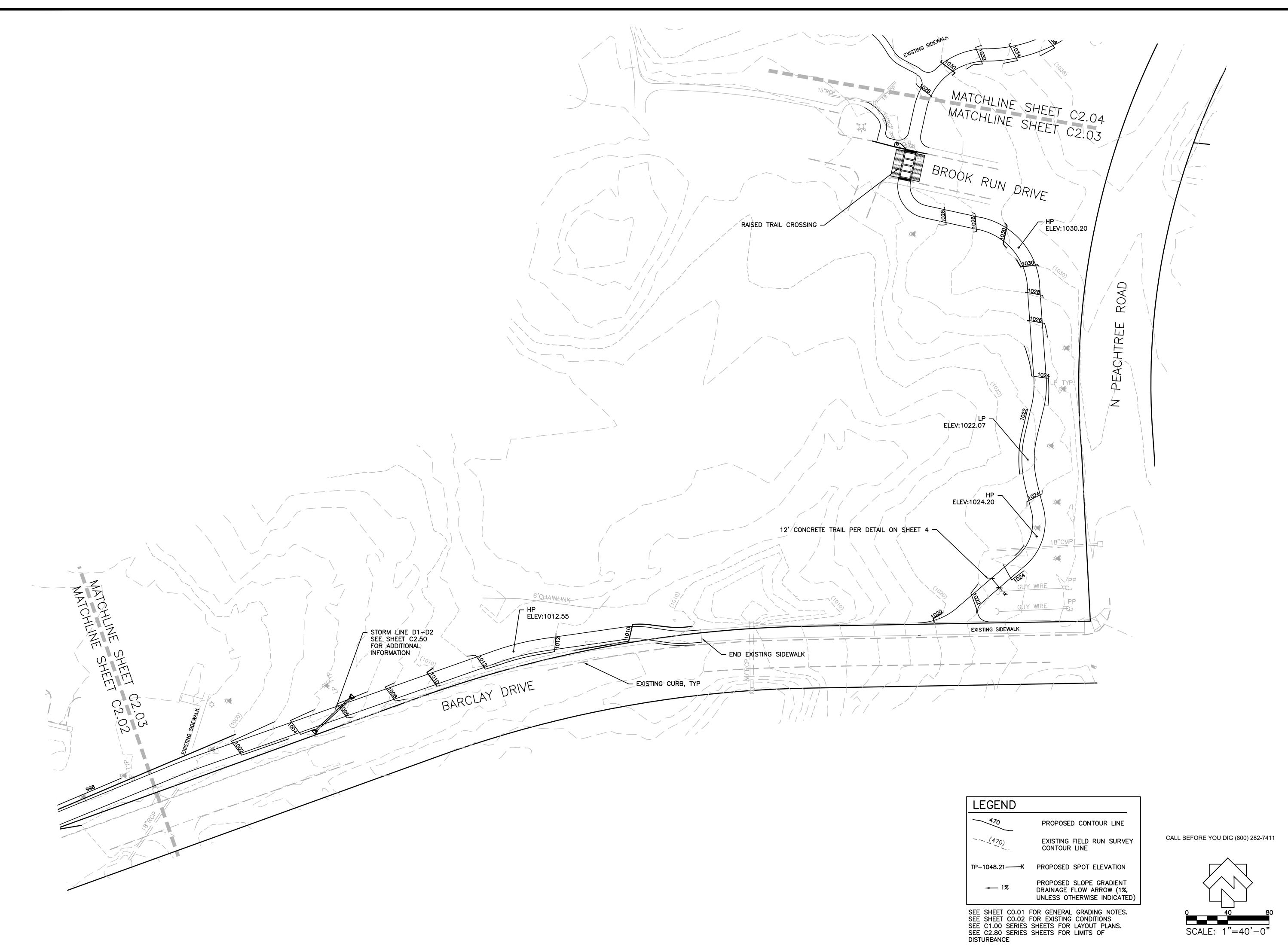
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MULTI-USE TRAIL - PHASE II

REVISIONS

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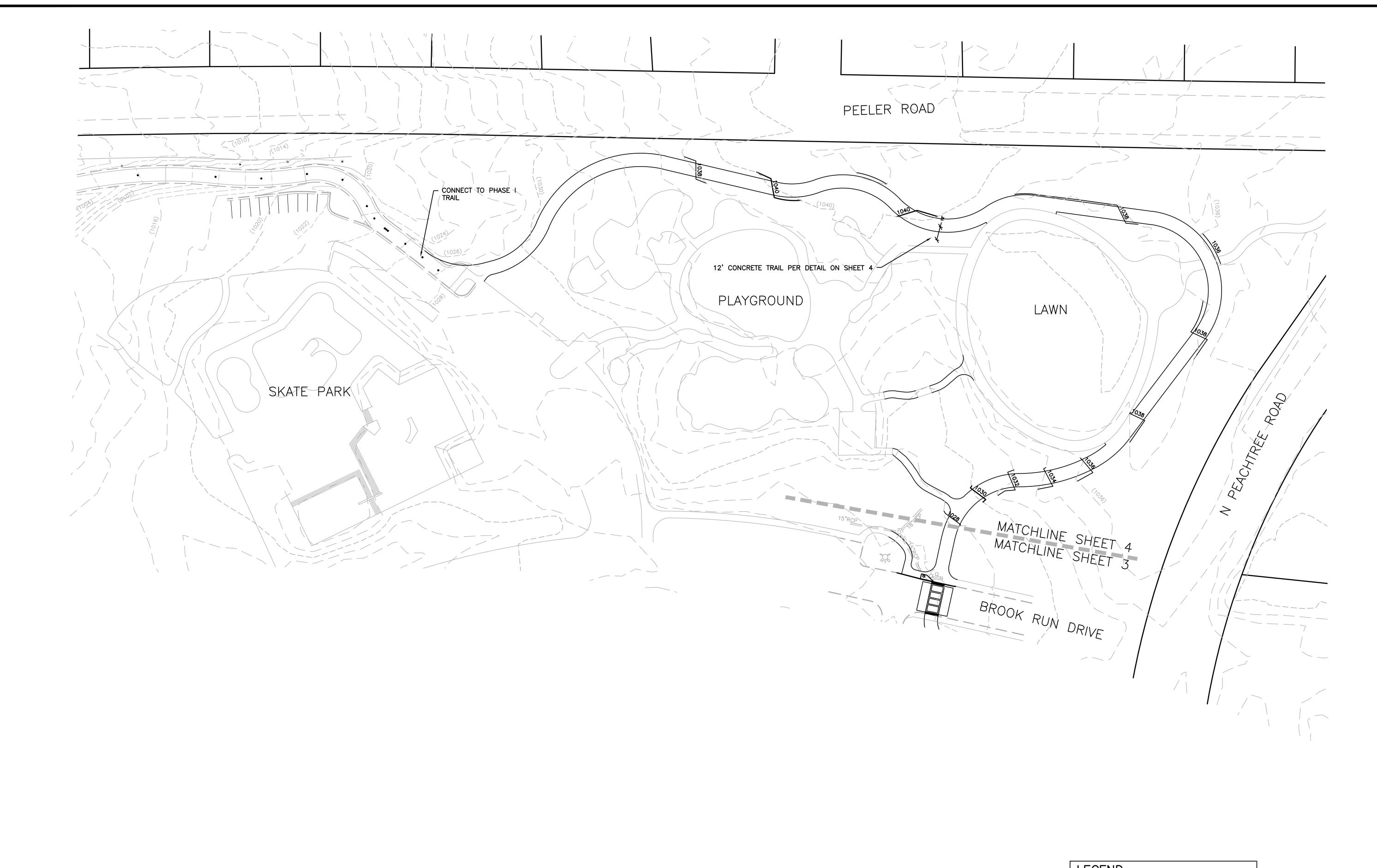
SHEET TITLE

GRADING AND
LAYOUT EXHIBIT

PROJECT NUMBER DATE
13032 9/20/2013
DRAWN BY
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PROJECT NUMBER DATE
STAFE
1°- 40'-0°

SHEET NUMBER
C2.03



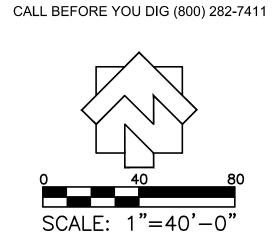
PROPOSED CONTOUR LINE

EXISTING FIELD RUN SURVEY CONTOUR LINE

TP-1048.21—X PROPOSED SPOT ELEVATION

PROPOSED SLOPE GRADIENT DRAINAGE FLOW ARROW (1%, UNLESS OTHERWISE INDICATED)

SEE SHEET CO.01 FOR GENERAL GRADING NOTES.
SEE SHEET CO.02 FOR EXISTING CONDITIONS
SEE C1.00 SERIES SHEETS FOR LAYOUT PLANS.
SEE C2.80 SERIES SHEETS FOR LIMITS OF
DISTURBANCE



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BROOK RUN PARK

MULTI-USE TRAIL - PHASE I

4770 NORTH PEACHTREE ROAD, DUNWOODY, GA 30338

LAND LOTS 353 AND 354 - 18th DISTRICT PIN- 18-354-01-00

THE CITY OF DUNWOODY, GEORGIA

REVISIONS

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GRADING AND
LAYOUT EXHIBIT

PROJECT NUMBER DATE

13032 9/20/2013

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1\*- 40'-0\*

SHEET NUMBER C2.04

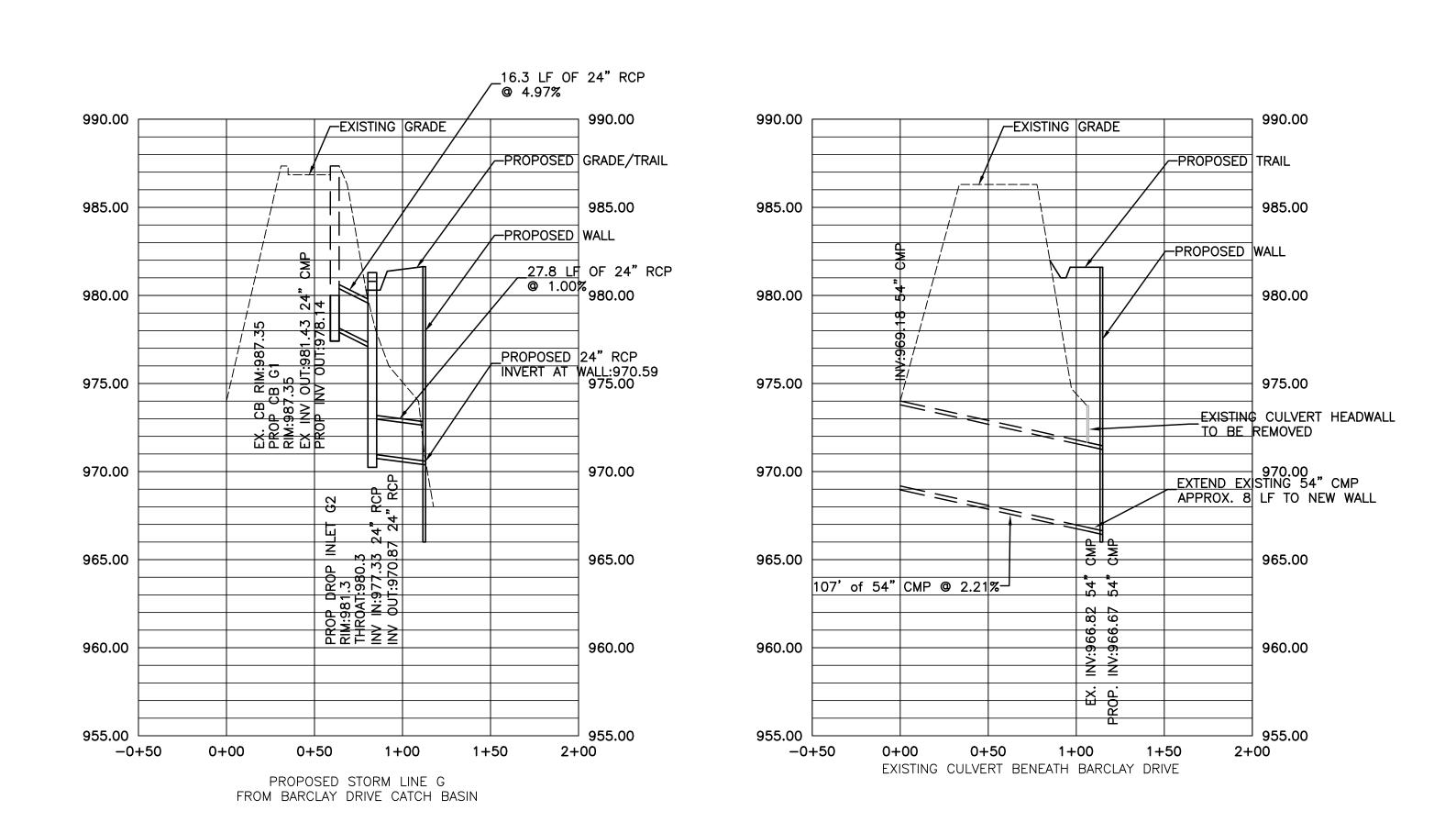
#### STORM DRAINAGE PROFILES Profile View of EXISTING GROUND - Profile View of Profile View of PROPOSED GRADE CULVERT B EXISTING GROUND -950.00 <sub>¬</sub> 995.00 985.00 995.00 — 950.00 985.00 - PROPOSED GRADE INV:979.20 \_INV:978.95 EXISTING GROUND — INV:941.00 1000.00 1000.00 / INV:940.65 945.00 980.00 945.00 990.00 990.00 980.00 FLEV:991.00 B-2 \_ INV:984.70 INV:985.00 EXISTING GRADE 995.00 995.00 940.00 940.00 985.00 975.00 975.00 /-PROPOSED GRADE 24.4' of 24" HDPE Pipe @ 1.23%-26.00' of 24" HDPE Pipe @ 1.34%— 990.00 990.00 <del>- 25 YEAR HGL-</del> 25 YEAR HGL PROPOSED GRADE 935.00 980.00 970.00 970.00 0+00 0+00 0+00 -0+50 0+50 -0+500+50 -0+50 0+50 985.00 985.00 980.00 REMOVE APPROX. 19 LF Profile View of Profile View of OF 24" RCP CULVERT C3-C4 CULVERT E 975.00 975.00 1015.00 990.00 1015.00 990.00 $\vdash$ 100 YEAR HGL-Profile View of EXISTING GROUND -PROPOSED GRADE 134.88' of 24" RCP @ 6.44%— - PROPOSED GRADE PROPOSED GRADE 970.00 970.00 985.00 1010.00 EXISTING GROUND -INV:979.00 EXISTING GROUND 965.00 980.00 1005.00 1005.00 980.00 980.00 0+00 0+50 1+00 1+50 -0+50 2+00 C-3 STORM LINE F INV:978.75 \_INV:978.50 \_\_INV:975.50 INV:1003.00 INV:1002.50 975.00 975.00 1000.00 1000.00 975.00 975.00 36.3' of 12" HDPE Pipe @ 9.65%-25 YEAR HGL 25 YEAR HGL-47.00' of 18" HDPE Pipe @ 1.06%— 20.6' of 15" HDPE Pipe @ 1.21% — 25 YEAR HGL-970.00 970.00 970.00 995.00 995.00

0+00

-0+50

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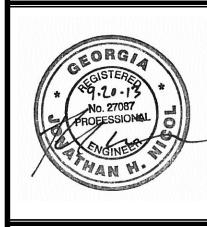
0+00

-0+50

+00	0+50	1+	00			-	PIPE (	CHAR	<u> </u>					
PIPE	DIA inches	TYPE	Manning's	DESIGN FREQ year	FREQ. FACTOR Cf	WEIGHTED RATIONAL "C"	INTENSITY in/hr	AREA acres	DESIGN FLOW cfs	DESIGN SLOPE	FF FRIC SLOPE %	VELOCITY*	Time of Concentration min	LENGTH ft
A1-A2	24	HDPE	0.012	100	1.25	0.43	8.33	4.2	18.6	1.34%	0.58%	9.6	10.0	26.03
B1-B2	24	HDPE	0.012	100	1.25	0.52	8.33	2.0	11.0	1.23%	0.20%	8.2	10.0	24.40
C1-C2	15	HDPE	0.012	100	1.25	0.38	9.87	1.0	4.8	1.14%	0.48%	6.5	5.0	22.00
C3-C4	15	HDPE	0.012	100	1.25	0.38	9.82	0.1	5.3	1.21%	0.57%	6.8	5.1	20.60
D1-D2	12	HDPE	0.012	100	1.25	0.38	9.87	0.6	3.0	9.65%	0.59%	12.6	5.0	36.27
E1-E2	18	HDPE	0.012	100	1.25	0.50	9.87	1.4	8.5	1.06%	0.57%	7.2	5.0	46.99

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SOOK RUN JSE TRAIL PEACHTREE ROAD, I AND 354 - 18th DIS Y OF DUNWO

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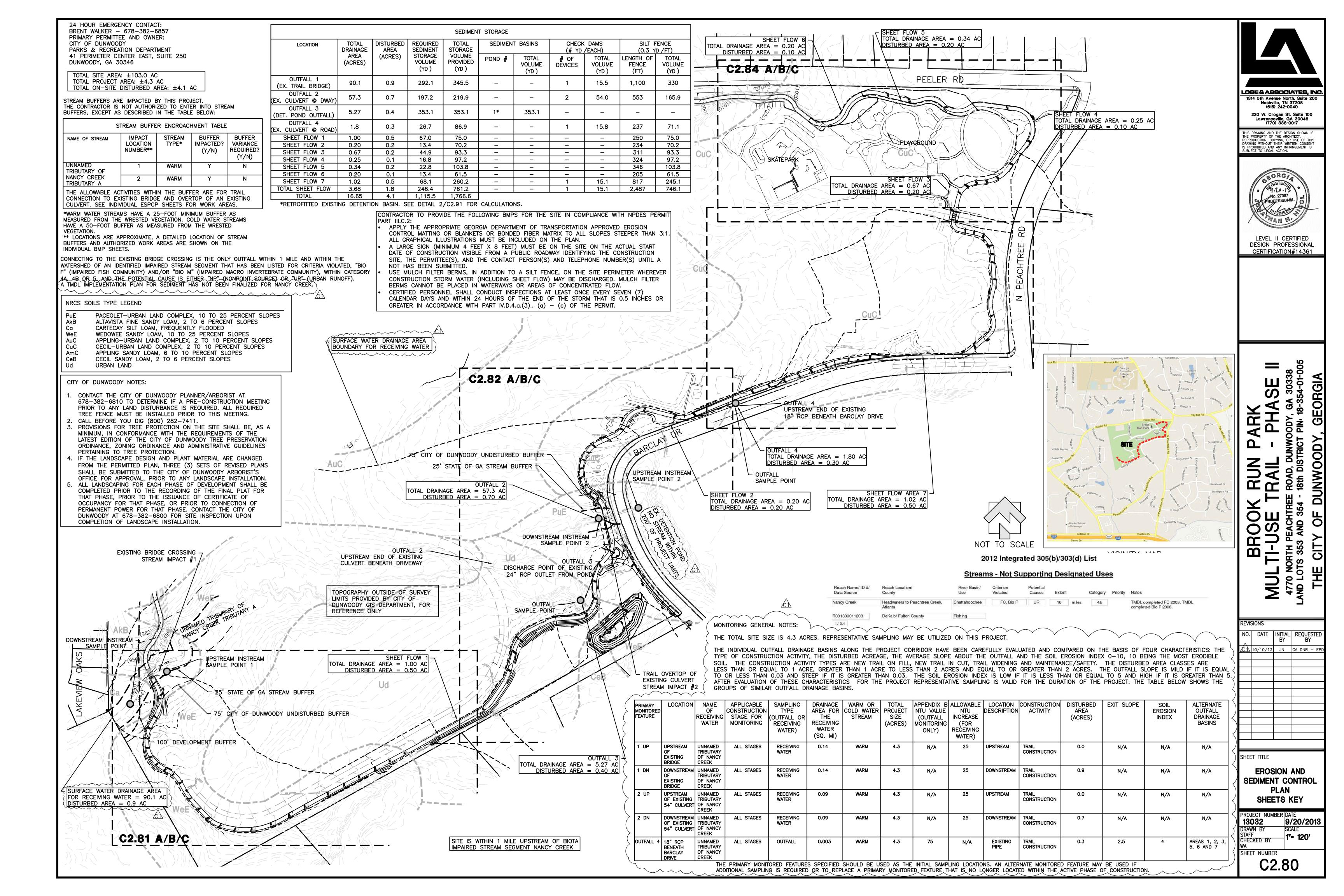
REVISIONS NO. DATE INITIAL REQUESTED BY

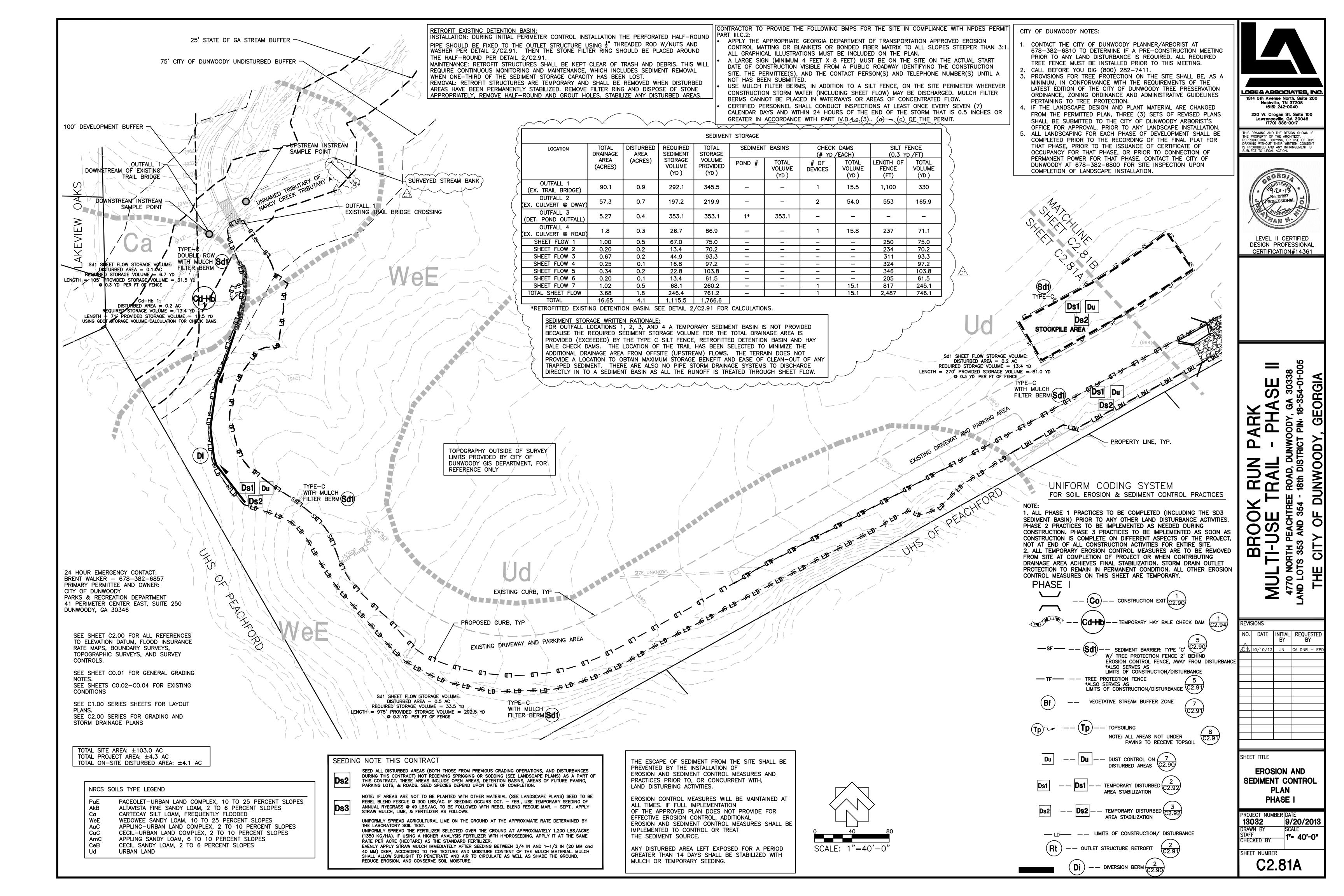
SHEET TITLE STORM DRAINAGE PROFILES AND

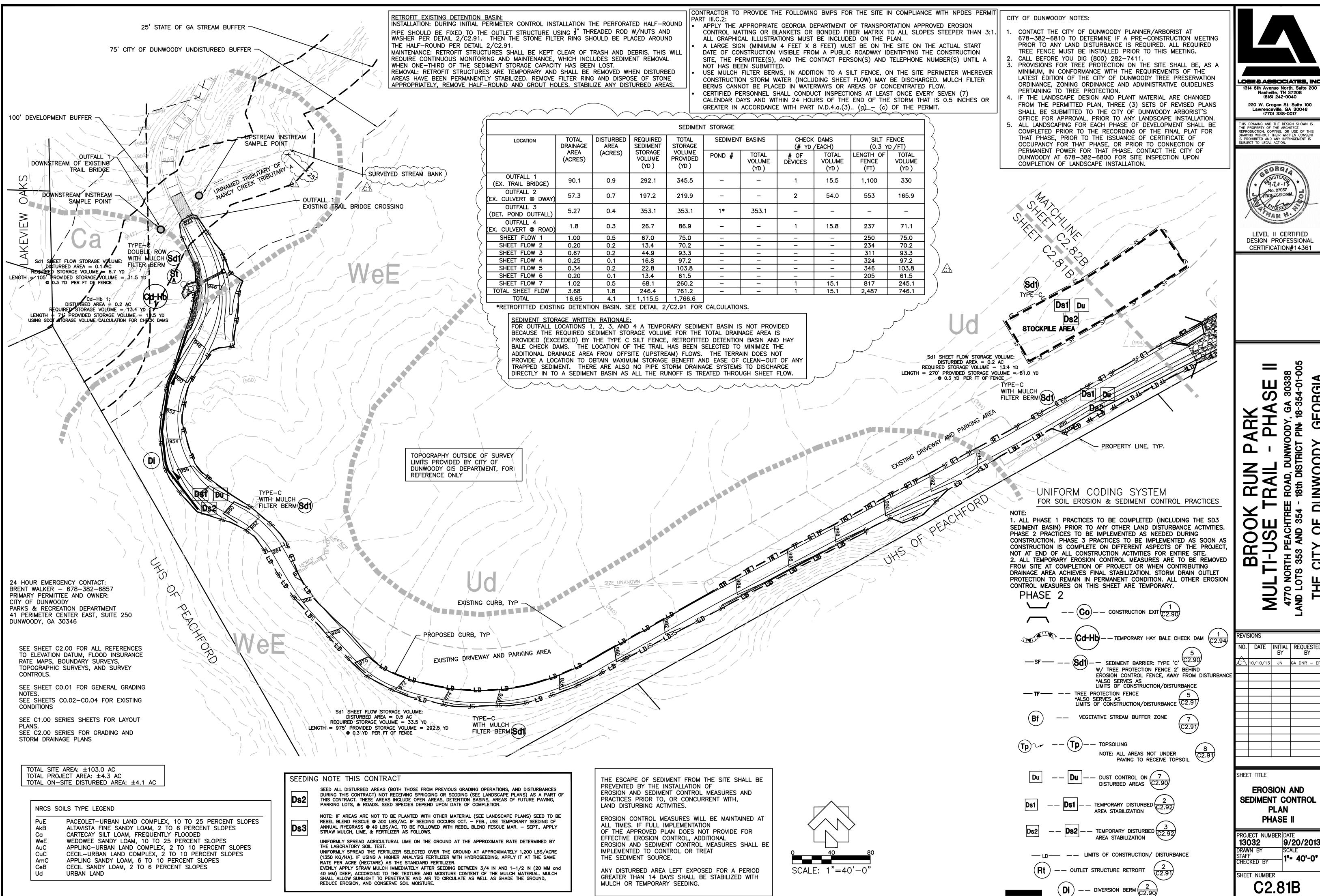
PIPE CHART

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY STAFF CHECKED BY SCALE **⊣1″=** 50′ H 1°- 5' V

SHEET NUMBER C2.50







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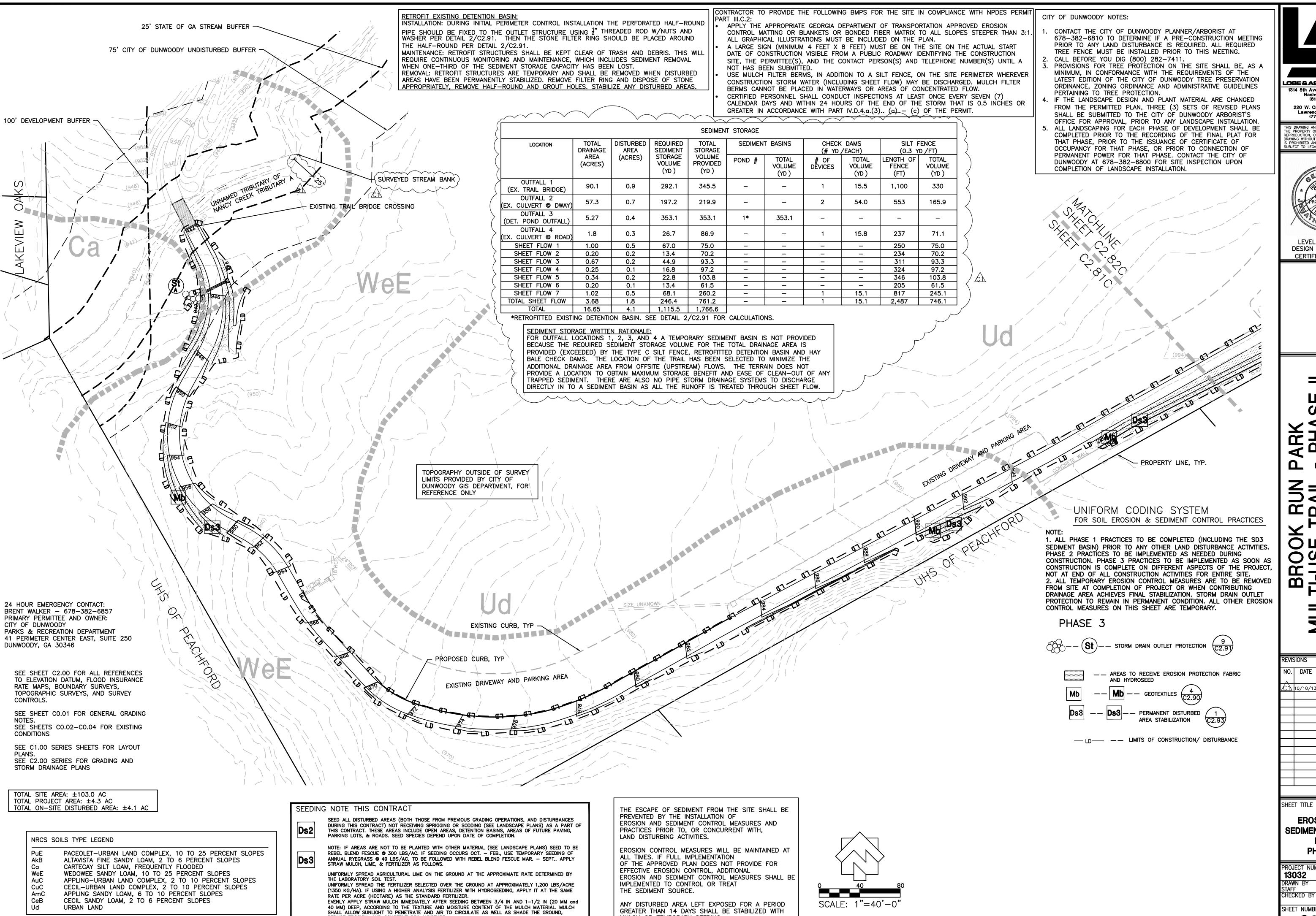
LEVEL II CERTIFIED **DESIGN PROFESSIONAL** 

CERTIFICATION#14361

).| Date |Initial|Requeste C↑ 10/10/13 JN GA DNR -

**EROSION AND** SEDIMENT CONTROL

9/20/2013 ISCALE **∤1"= 40'-0"** 



MULCH OR TEMPORARY SEEDING.

REDUCE EROSION, AND CONSERVE SOIL MOISTURE.

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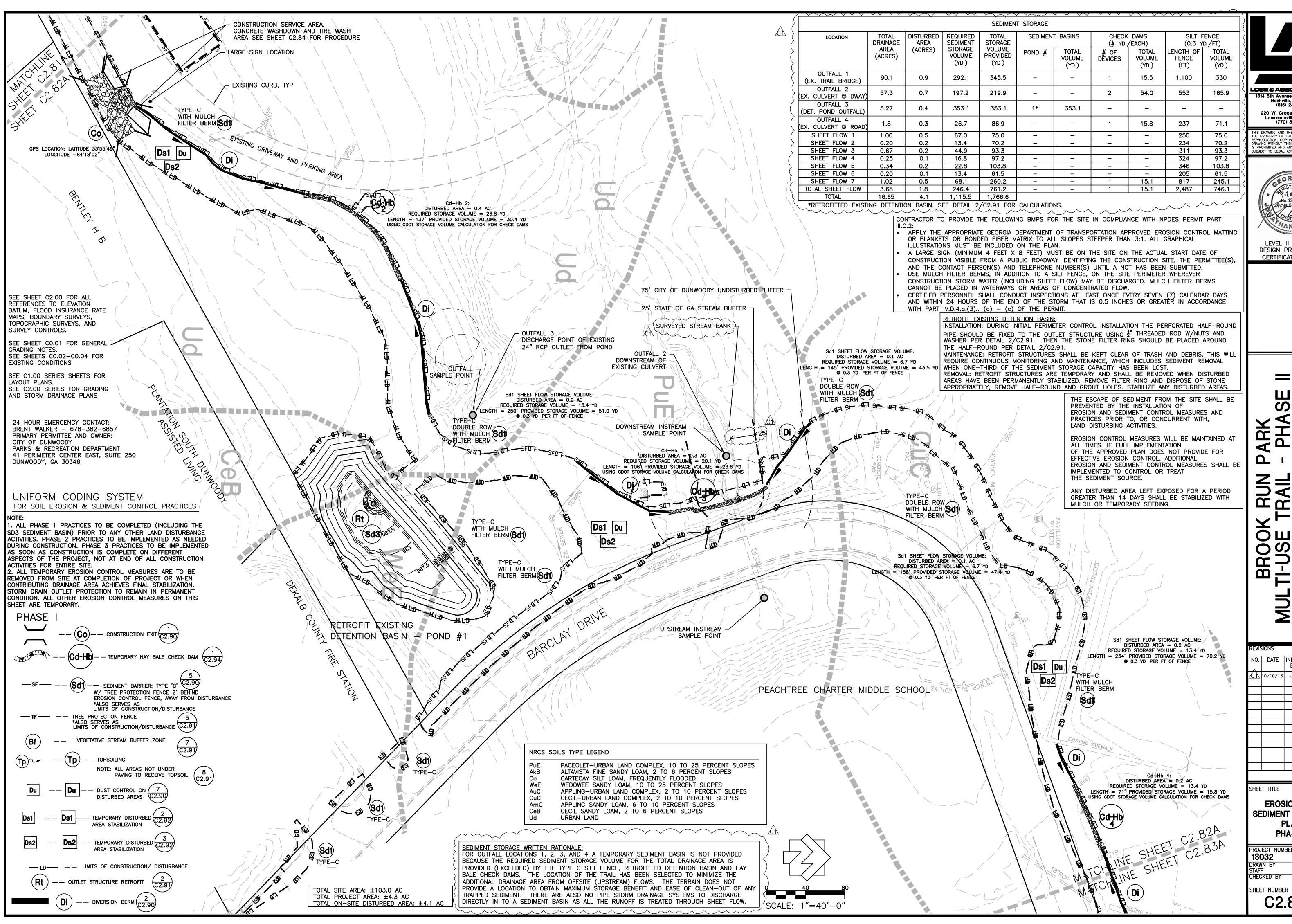
**REVISIONS** NO. DATE INITIAL REQUESTED BY Ć↑ 10/10/13 | JN | GA DNR - I

**EROSION AND** SEDIMENT CONTROL **PLAN** PHASE III

PROJECT NUMBER|DATE 13032 9/20/2013 DRAWN BY **∤1"= 40'-0"** 

SHEET NUMBER

C2.81C



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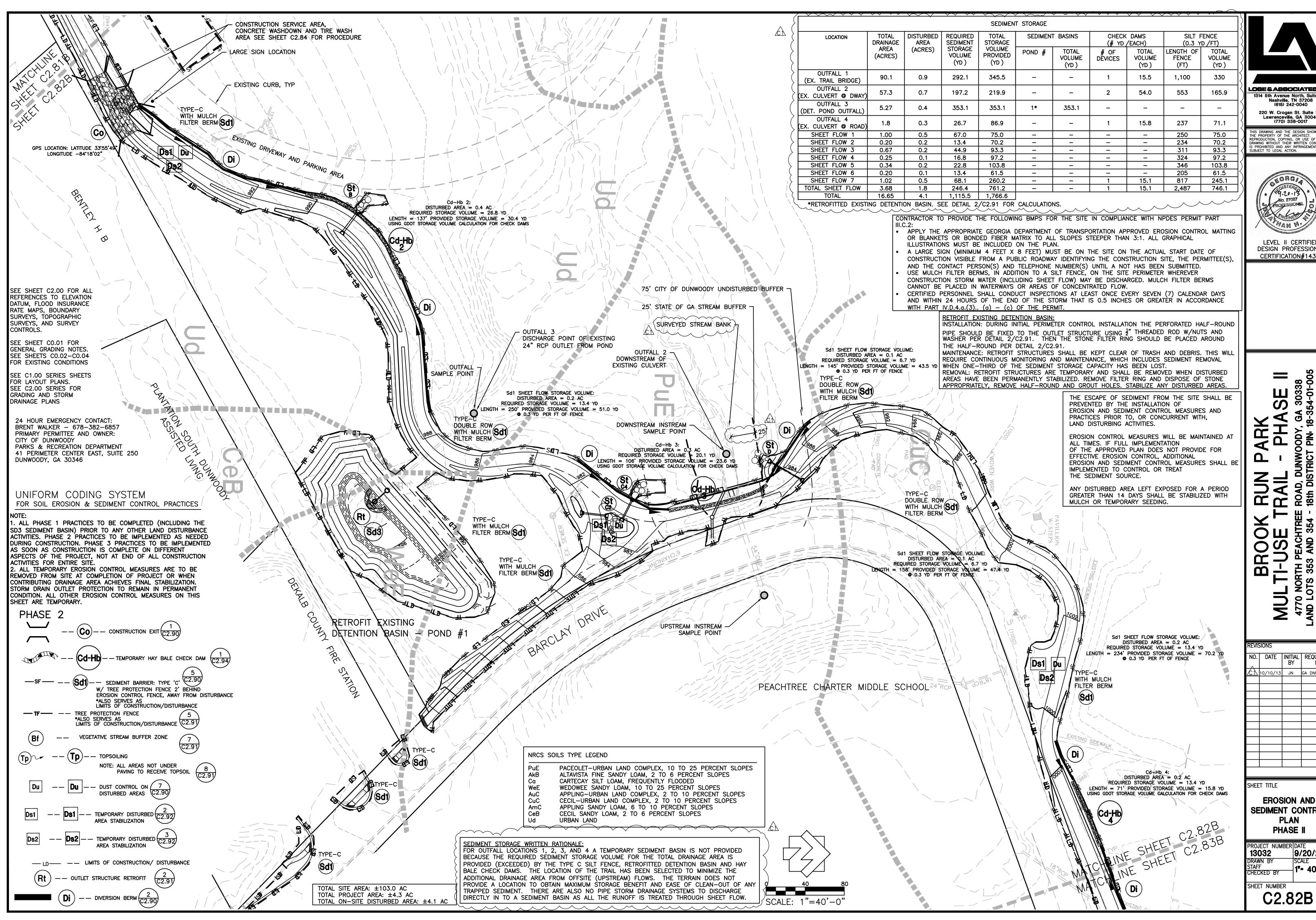
LEVEL II CERTIFIED **DESIGN PROFESSIONAL** CERTIFICATION#14361

NO. DATE INITIAL REQUESTE C↑ 10/10/13 JN GA DNR -

**EROSION AND** SEDIMENT CONTROL **PLAN** PHASE I

ROJECT NUMBER DATE 9/20/2013 **-**|1**"=**|40'-0**"** 

C2.82A



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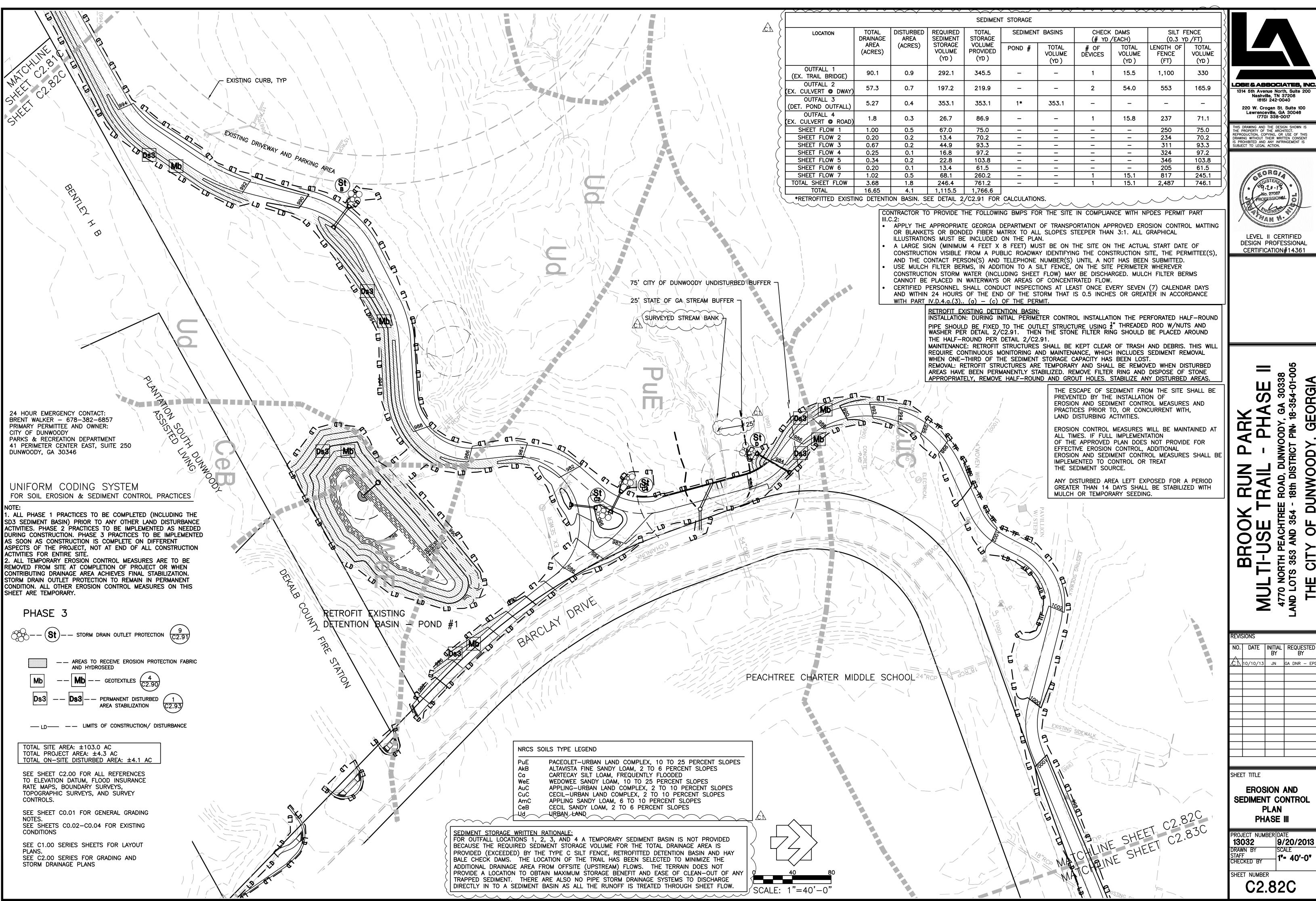
No. 27087 PROFESSIONAL

LEVEL II CERTIFIED **DESIGN PROFESSIONAL** CERTIFICATION#14361

NO. DATE INITIAL REQUESTE C↑ 10/10/13 JN GA DNR -

**EROSION AND** SEDIMENT CONTROL **PLAN** PHASE II

ROJECT NUMBER DATE 9/20/2013 |1**"=** 40'-0**"** 



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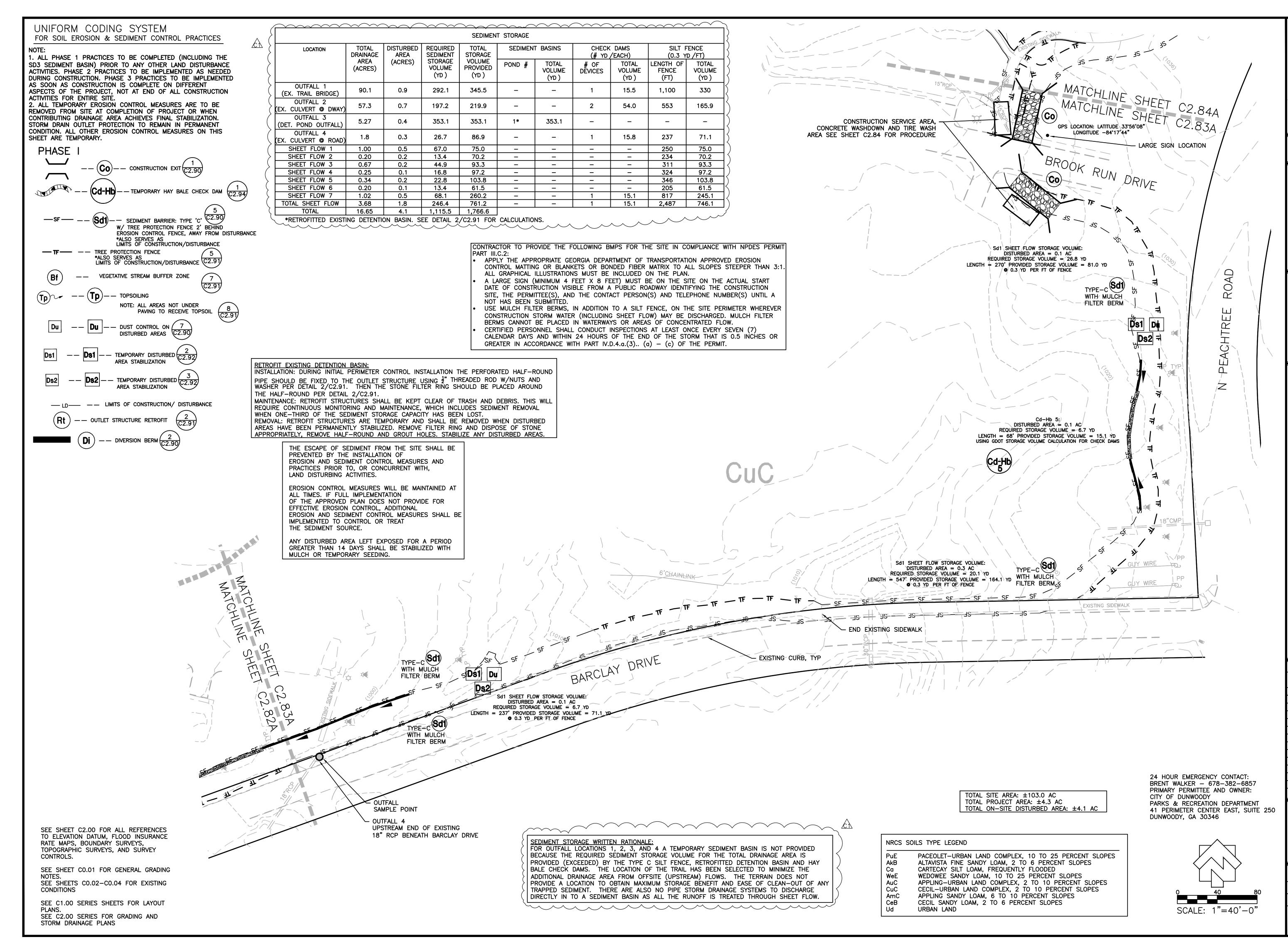
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**EROSION AND** SEDIMENT CONTROL **PLAN** 

ROJECT NUMBER DATE 9/20/2013 **-**|1**"=** 40'-0**"** 

SHEET NUMBER

C2.82C



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30338 30338

MULTI-USE TRAIL - PHASE

4770 NORTH PEACHTREE ROAD, DUNWOODY, GA 303

AND LOTS 353 AND 354 - 18th DISTRICT PIN: 18-354-0

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C 10/10/13 JN GA DNR - EPI

EROSION AND
SEDIMENT CONTROL
PLAN
PHASE I

PROJECT NUMBER DATE

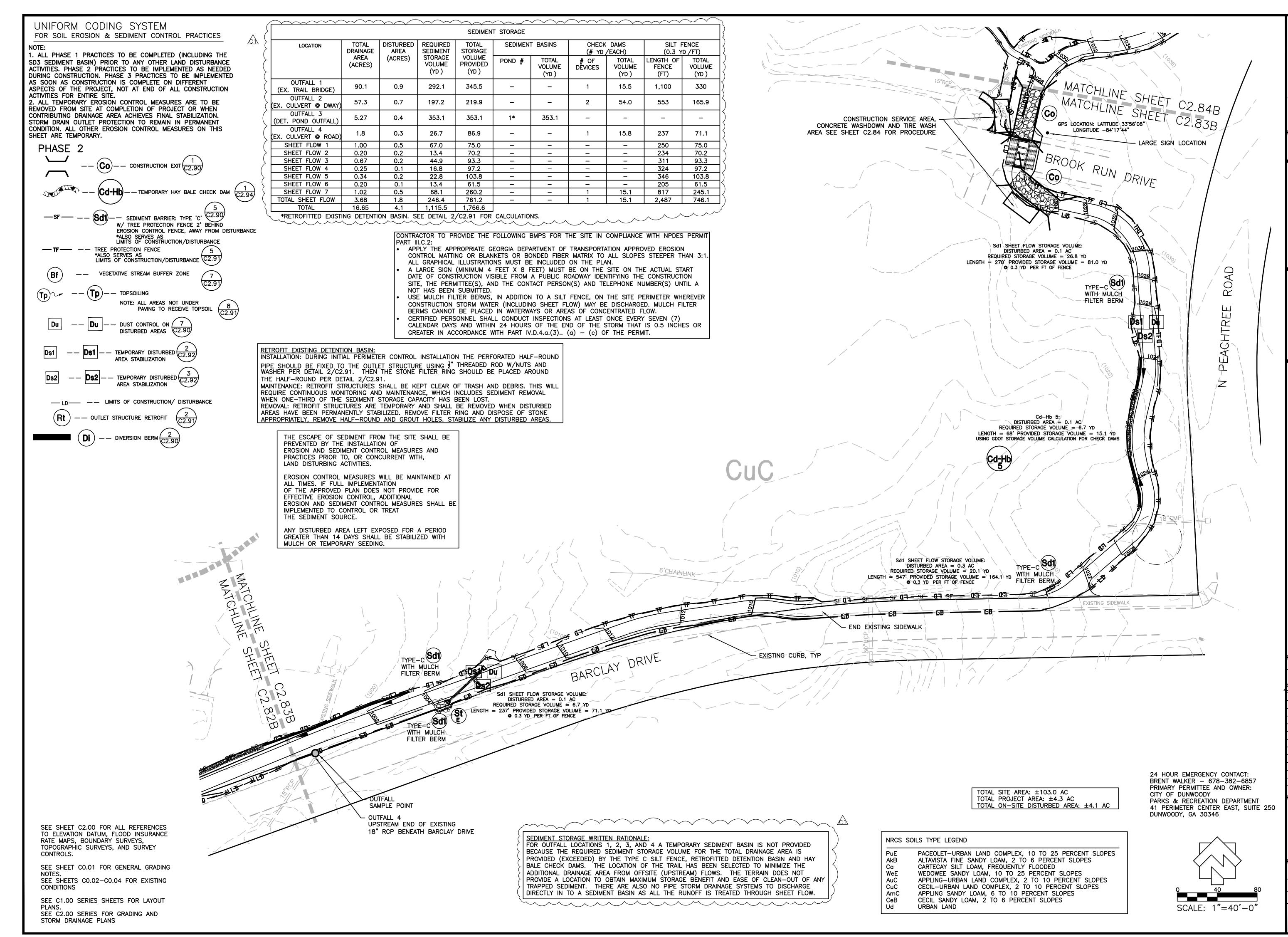
13032 9/20/2013

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STAFF
CHECKED BY 1°- 40'-0°

SHEET NUMBER

C2.83A



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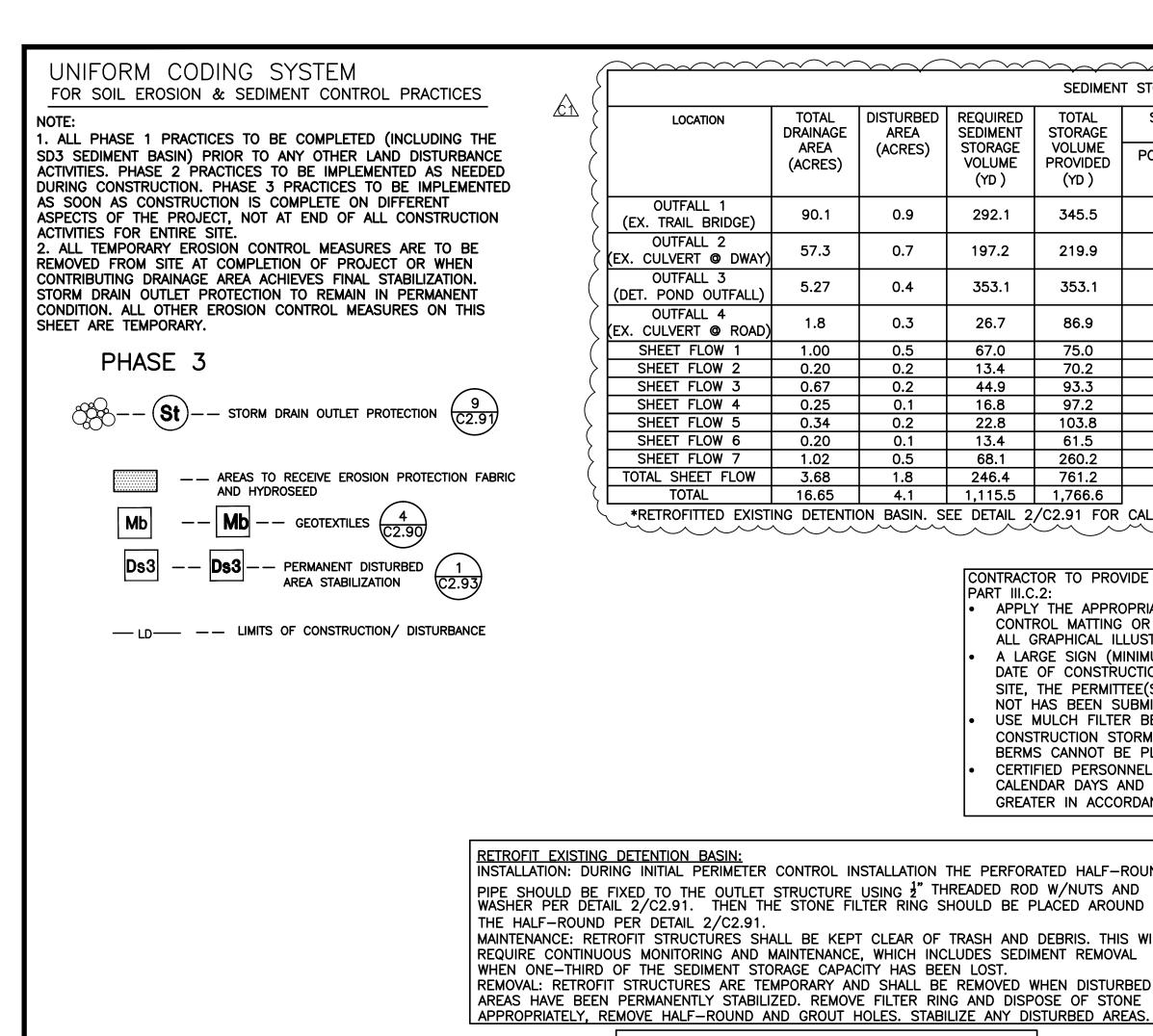
NO. DATE INITIAL REQUESTED BY 1∮/10/13 |JN GÅ DNR – EPD

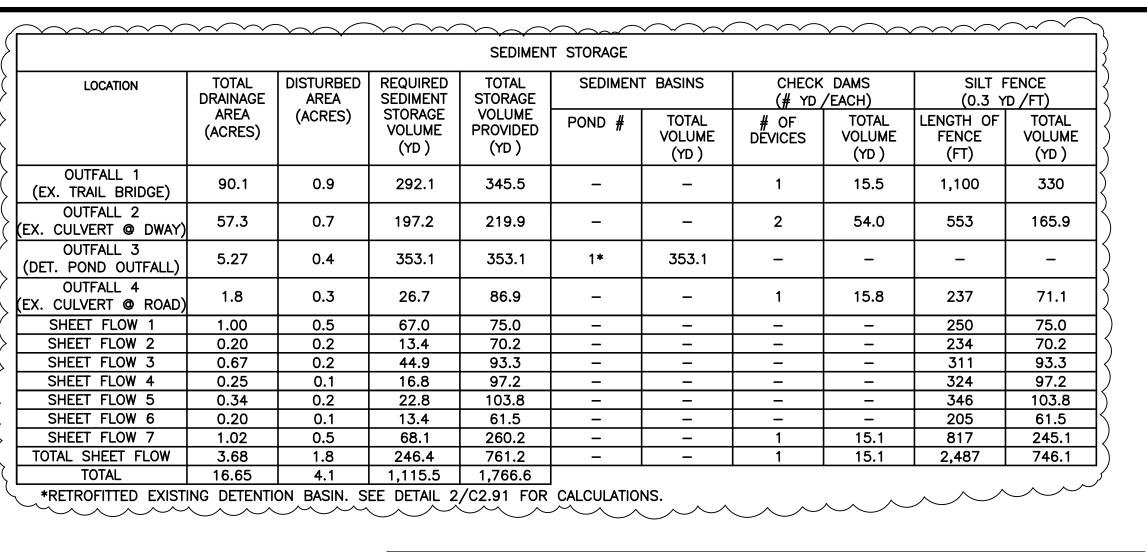
HEET TITLE **EROSION AND** SEDIMENT CONTROL **PLAN** 

PHASE II PROJECT NUMBER DATE 13032 9/20/2013 ISCALE

DRAWN BY ¶ST<u>AF</u>F **⊣1"= 40'-0"** CHECKED E

SHEET NUMBER C2.83B





CONTRACTOR TO PROVIDE THE FOLLOWING BMPS FOR THE SITE IN COMPLIANCE WITH NPDES PERMIT PART III.C.2: APPLY THE APPROPRIATE GEORGIA DEPARTMENT OF TRANSPORTATION APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1. ALL GRAPHICAL ILLUSTRATIONS MUST BE INCLUDED ON THE PLAN. A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE ON THE SITE ON THE ACTUAL START DATE OF CONSTRUCTION VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A NOT HAS BEEN SUBMITTED. USE MULCH FILTER BERMS, IN ADDITION TO A SILT FENCE, ON THE SITE PERIMETER WHEREVER CONSTRUCTION STORM WATER (INCLUDING SHEET FLOW) MAY BE DISCHARGED. MULCH FILTER BERMS CANNOT BE PLACED IN WATERWAYS OR AREAS OF CONCENTRATED FLOW. CERTIFIED PERSONNEL SHALL CONDUCT INSPECTIONS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES OR GREATER IN ACCORDANCE WITH PART IV.D.4.a.(3).. (a) - (c) OF THE PERMIT.

INSTALLATION: DURING INITIAL PERIMETER CONTROL INSTALLATION THE PERFORATED HALF-ROUND PIPE SHOULD BE FIXED TO THE OUTLET STRUCTURE USING  $\frac{1}{2}$ " THREADED ROD W/NUTS AND WASHER PER DETAIL 2/C2.91. THEN THE STONE FILTER RING SHOULD BE PLACED AROUND THE HALF-ROUND PER DETAIL 2/C2.91. MAINTENANCE: RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST. REMOVAL: RETROFIT STRUCTURES ARE TEMPORARY AND SHALL BE REMOVED WHEN DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. REMOVE FILTER RING AND DISPOSE OF STONE

> THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH. LAND DISTURBING ACTIVITIES.

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

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

> TOTAL SITE AREA: ±103.0 AC TOTAL PROJECT AREA: ±4.3 AC

- EXISTING CURB, TYP

SEDIMENT STORAGE WRITTEN RATIONALE: FOR OUTFALL LOCATIONS 1, 2, 3, AND 4 A TEMPORARY SEDIMENT BASIN IS NOT PROVIDED BECAUSE THE REQUIRED SEDIMENT STORAGE VOLUME FOR THE TOTAL DRAINAGE AREA IS PROVIDED (EXCEEDED) BY THE TYPE C SILT FENCE, RETROFITTED DETENTION BASIN AND HAY BALE CHECK DAMS. THE LOCATION OF THE TRAIL HAS BEEN SELECTED TO MINIMIZE THE ADDITIONAL DRAINAGE AREA FROM OFFSITE (UPSTREAM) FLOWS. THE TERRAIN DOES NOT PROVIDE A LOCATION TO OBTAIN MAXIMUM STORAGE BÉNEFIT AND EASE OF CLEAN—OUT OF ANY TRAPPED SEDIMENT. THERE ARE ALSO NO PIPE STORM DRAINAGE SYSTEMS TO DISCHARGE DIRECTLY IN TO A SEDIMENT BASIN AS ALL THE RUNOFF IS TREATED THROUGH SHEET FLOW.

NRCS SOILS TYPE LEGEND

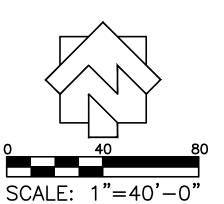
URBAN LAND

AkB

PACEOLET-URBAN LAND COMPLEX, 10 TO 25 PERCENT SLOPES ALTAVISTA FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES CARTECAY SILT LOAM, FREQUENTLY FLOODED WEDOWEE SANDY LOAM, 10 TO 25 PERCENT SLOPES WeE AuC CuC AmC CeB APPLING-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES CECIL-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES APPLING SANDY LOAM, 6 TO 10 PERCENT SLOPES CECIL SANDY LOAM, 2 TO 6 PERCENT SLOPES

TOTAL ON-SITE DISTURBED AREA: ±4.1 AC

24 HOUR EMERGENCY CONTACT: BRENT WALKER - 678-382-6857 PRIMARY PERMITTEE AND OWNER: CITY OF DUNWOODY PARKS & RECREATION DEPARTMENT 41 PERIMETER CENTER EAST, SUITE 250 DUNWOODY, GA 30346



LOSE & ASSOCIATES, INC

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LEVEL II CERTIFIED **DESIGN PROFESSIONAL** 

CERTIFICATION#14361

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NO. DATE INITIAL REQUESTE BY BY

HEET TITLE

**EROSION AND** SEDIMENT CONTROL **PLAN** PHASE III

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY SCALE STAFF **⊣1"= 40'-0"** CHECKED B

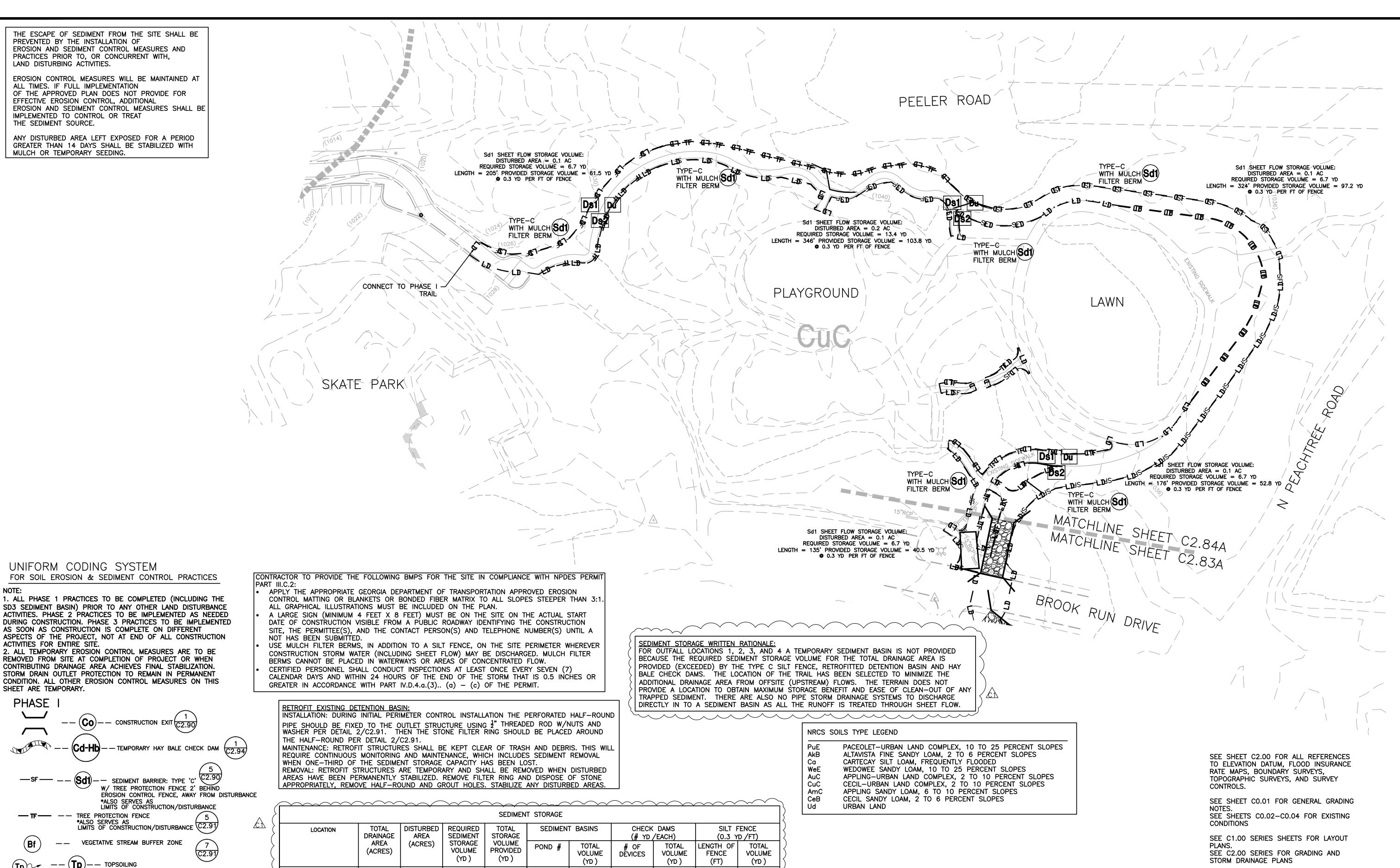
SHEET NUMBER C2.83C

SEE SHEET C2.00 FOR ALL REFERENCES TO ELEVATION DATUM, FLOOD INSURANCE RATE MAPS, BOUNDARY SURVEYS, TOPOGRAPHIC SURVEYS, AND SURVEY CONTROLS.

SEE SHEET CO.01 FOR GENERAL GRADING SEE SHEETS C0.02-C0.04 FOR EXISTING CONDITIONS

SEE C1.00 SERIES SHEETS FOR LAYOUT

SEE C2.00 SERIES FOR GRADING AND STORM DRAINAGE PLANS



OUTFALL 1 90.1 1,100 330 0.9 292.1 345.5 (EX. TRAIL BRIDGE) OUTFALL 2 165.9 57.3 0.7 197.2 219.9 54.0 553 EX. CULVERT @ DWAY OUTFALL 3 353.1 353.1 353.1 5.27 0.4 (DET. POND OUTFALL) OUTFALL 4 0.3 26.7 86.9 71.1 EX. CULVERT @ ROAD` SHEET FLOW 1 1.00 0.5 67.0 SHEET FLOW 2 0.20 0.2 13.4 70.2 234 70.2 \_ SHEET FLOW 3 44.9 93.3 0.67 0.2 311 93.3 SHEET FLOW 4 0.25 0.1 16.8 97.2 324 97.2 SHEET FLOW 5 0.34 0.2 22.8 103.8 346 103.8 SHEET FLOW 6 - 205 0.20 0.1 13.4 61.5 61.5 SHEET FLOW 7 1.02 0.5 68.1 260.2 15.1 817 245.1 TOTAL SHEET FLOW 3.68 246.4 761.2 15.1 2,487 1.8 \_

16.65

4.1 | 1,115.5 | 1,766.6

\*RETROFITTED EXISTING DETENTION BASIN. SEE DETAIL 2/C2.91 FOR CALCULATIONS.

NOTE: ALL AREAS NOT UNDER

DISTURBED AREAS (C2.90)

-- | **Du** | -- Dust control on / 7

-- DS1 -- TEMPORARY DISTURBED (C2.92)

- OUTLET STRUCTURE RETROFIT

AREA STABILIZATION

- Ds2 — TEMPORARY DISTURBED (C2.92)

— DIVERSION BERM (C2.90)

AREA STABILIZATION

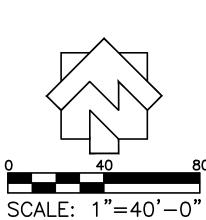
— LIMITS OF CONSTRUCTION/ DISTURBANCE

PAVING TO RECEIVE TOPSOIL (C2.91)

TOTAL SITE AREA: ±103.0 AC TOTAL PROJECT AREA: ±4.3 AC TOTAL ON-SITE DISTURBED AREA: ±4.1 AC

24 HOUR EMERGENCY CONTACT: BRENT WALKER - 678-382-6857 PRIMARY PERMITTEE AND OWNER: CITY OF DUNWOODY PARKS & RECREATION DEPARTMENT 41 PERIMETER CENTER EAST, SUITE 250

DUNWOODY, GA 30346



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CERTIFICATION#14361

NO. | DATE | INITIAL | REQUESTE Ć↑|10/10/13| JN |GA DNR - |

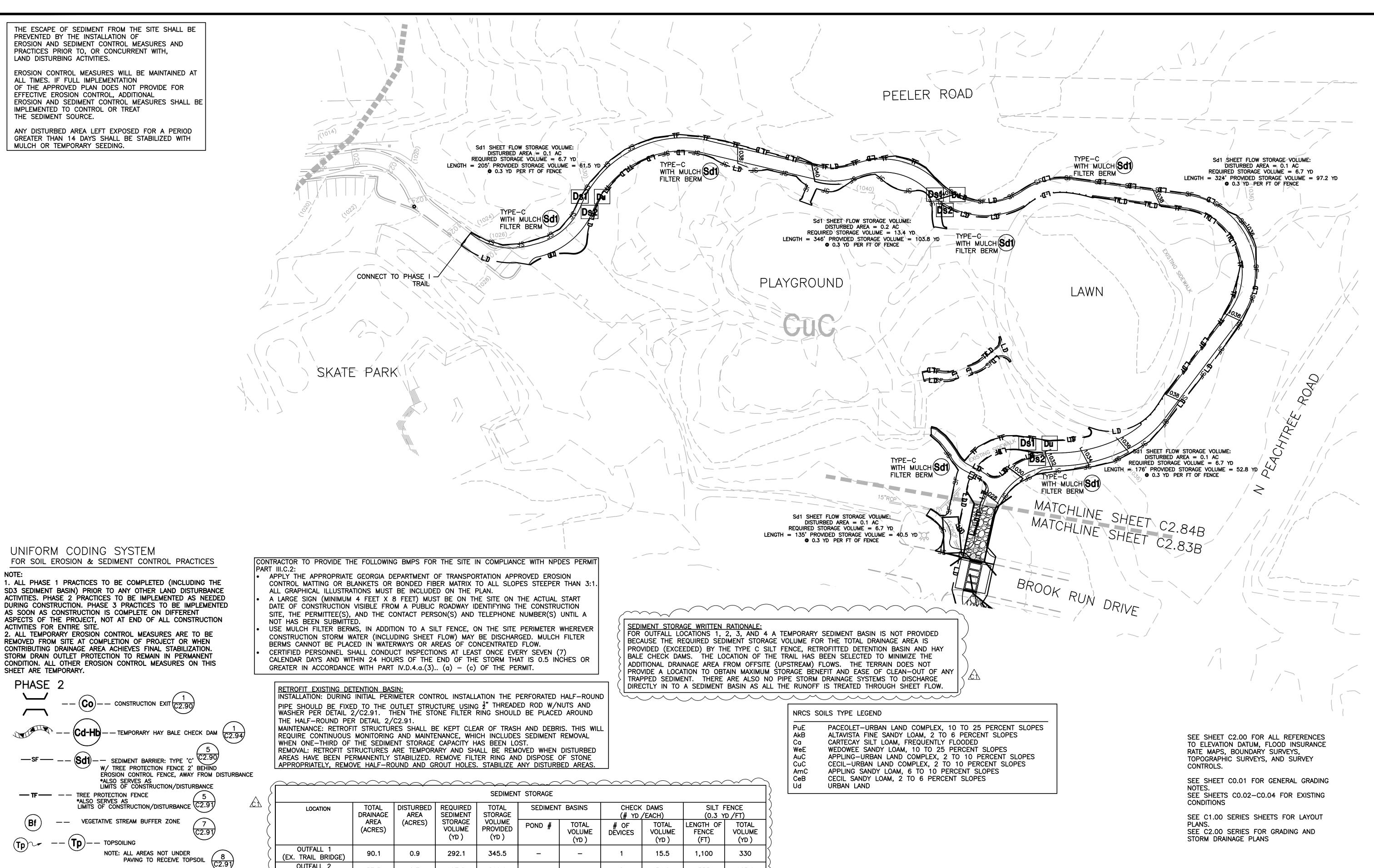
SHEET TITLE

**EROSION AND** SEDIMENT CONTROL **PLAN** PHASE I

PROJECT NUMBER|DATE 13032 9/20/2013 DRAWN BY ISCALE **∤1"= 40'-0"** 

CHECKED E

SHEET NUMBER C2.84A



165.9

71.1

75.0

70.2

93.3

97.2

103.8

61.5

245.1

54.0

553

250

311

346

324

- 205

15.1 2,487

15.1 817

234

OUTFALL 2

EX. CULVERT @ DWAY

OUTFALL 3

(DET. POND OUTFALL)

OUTFALL 4

EX. CULVERT @ ROAD`

SHEET FLOW 1

SHEET FLOW 2

SHEET FLOW 3

SHEET FLOW 4

SHEET FLOW 5

SHEET FLOW 6

SHEET FLOW 7

TOTAL SHEET FLOW

-- | **Du** | -- DUST CONTROL ON / 7

-- DS1 -- TEMPORARY DISTURBED (C2.92)

- OUTLET STRUCTURE RETROFIT

AREA STABILIZATION

- Ds2 — TEMPORARY DISTURBED (C2.92

— DIVERSION BERM  $(\frac{2}{(2.90)})$ 

AREA STABILIZATION

— LIMITS OF CONSTRUCTION/ DISTURBANCE

DISTURBED AREAS (C2.90)

57.3

5.27

1.00

0.20

0.67

0.25

0.34

0.20

1.02

3.68

16.65

0.7

0.4

0.3

0.5

0.2

0.2

0.1

0.1

0.5

1.8

\*RETROFITTED EXISTING DETENTION BASIN. SEE DETAIL 2/C2.91 FOR CALCULATIONS.

0.2

197.2

353.1

26.7

67.0

13.4

44.9

16.8

22.8

13.4

4.1 | 1,115.5 | 1,766.6

68.1 260.2

246.4 761.2

219.9

353.1

86.9

70.2

93.3

97.2

103.8

61.5

\_

353.1

\_

NO. | DATE | INITIAL | REQUESTE Ć↑|10/10/13| JN |GA DNR - |

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LEVEL II CERTIFIED

**DESIGN PROFESSIONAL** 

CERTIFICATION#14361

SHEET TITLE

SCALE: 1"=40'-0

24 HOUR EMERGENCY CONTACT:

TOTAL SITE AREA: ±103.0 AC

TOTAL PROJECT AREA: ±4.3 AC

TOTAL ON-SITE DISTURBED AREA: ±4.1 AC

BRENT WALKER - 678-382-6857

PARKS & RECREATION DEPARTMENT

41 PERIMETER CENTER EAST, SUITE 250

PRIMARY PERMITTEE AND OWNER:

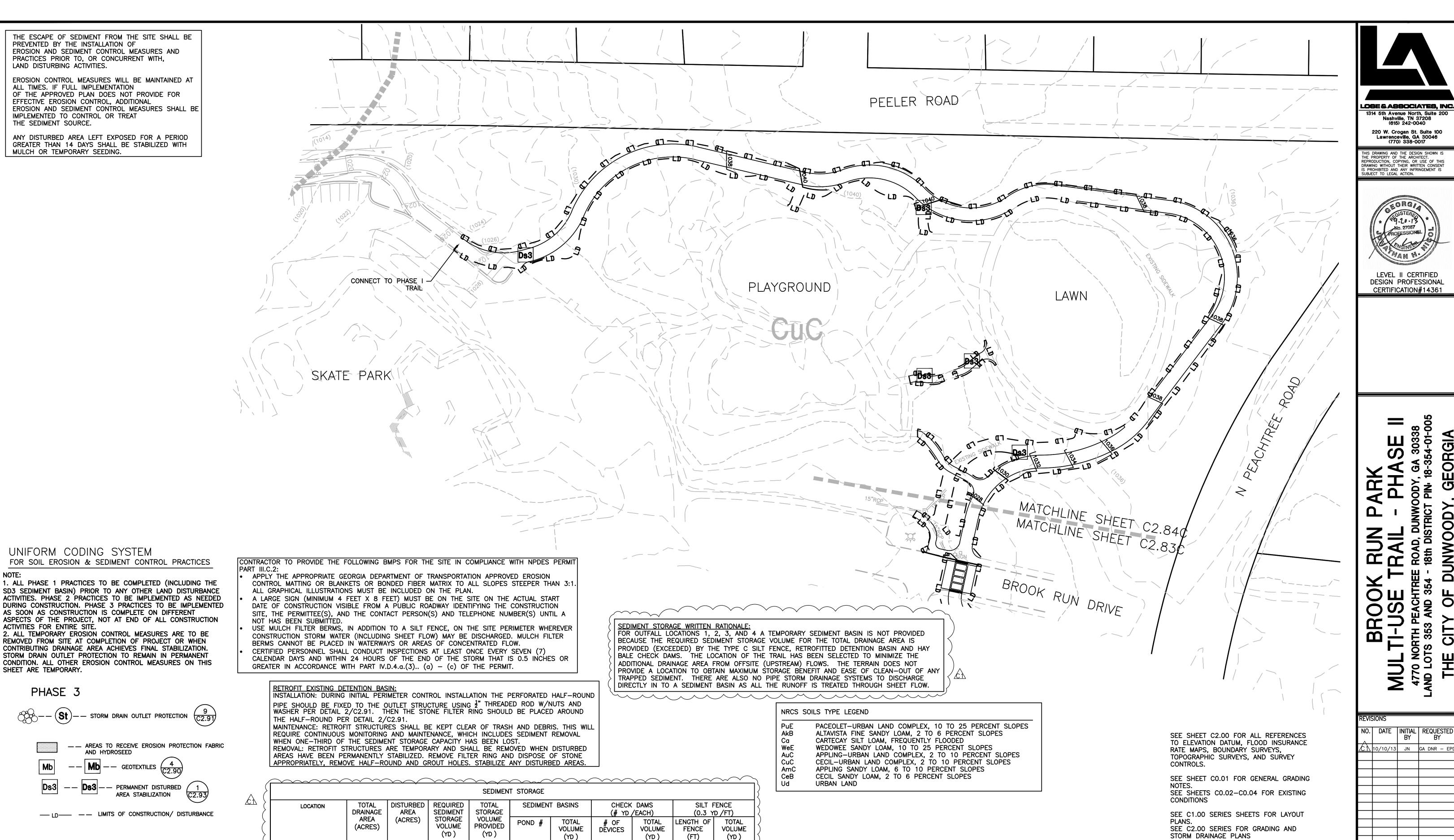
CITY OF DUNWOODY

DUNWOODY, GA 30346

**EROSION AND** SEDIMENT CONTROL **PLAN** PHASE II

PROJECT NUMBER|DATE 13032 9/20/2013 DRAWN BY ISCALE **∤1"= 40'-0"** CHECKED E

SHEET NUMBER C2.84B



15.5

54.0

\_

1,100

553

250

234

311

346

- 324

- | 205

15.1 | 2,487 |

15.1 817

330

165.9

71.1

75.0

70.2

93.3

97.2

103.8

61.5

245.1

OUTFALL 1

(EX. TRAIL BRIDGE) OUTFALL 2

EX. CULVERT @ DWAY

OUTFALL 3

(DET. POND OUTFALL)

OUTFALL 4

EX. CULVERT @ ROAD)

SHEET FLOW 1

SHEET FLOW 2

SHEET FLOW 3

SHEET FLOW 4

SHEET FLOW 5

SHEET FLOW 6

SHEET FLOW 7

TOTAL SHEET FLOW

90.1

57.3

5.27

1.00

0.20

0.67

0.25

0.34

0.20

1.02

3.68

0.9

0.7

0.4

0.3

0.5

0.2

0.2

0.1

0.2

0.1

0.5

292.1

197.2

353.1

26.7

67.0

13.4

44.9

13.4

1.8 246.4 761.2

16.65 | 4.1 | 1,115.5 | 1,766.6

\*RETROFITTED EXISTING DETENTION BASIN. SEE DETAIL 2/C2.91 FOR CALCULATIONS.

16.8 97.2

22.8 | 103.8

68.1 260.2

345.5

219.9

353.1

86.9

75.0

70.2

93.3

61.5

353.1

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REVISIONS NO. | DATE | INITIAL | REQUESTE 10/10/13 JN GA DNR − E

TH P

SHEET TITLE

SCALE: 1"=40'-0

24 HOUR EMERGENCY CONTACT:

BRENT WALKER - 678-382-6857

PARKS & RECREATION DEPARTMENT

41 PERIMETER CENTER EAST, SUITE 250

PRIMARY PERMITTEE AND OWNER:

CITY OF DUNWOODY

DUNWOODY, GA 30346

TOTAL SITE AREA: ±103.0 AC

TOTAL PROJECT AREA: ±4.3 AC

TOTAL ON-SITE DISTURBED AREA: ±4.1 AC

**EROSION AND** SEDIMENT CONTROL **PLAN** PHASE III

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY ISCALE STAFF **-**|1**"=** 40'-0**"** CHECKED B

SHEET NUMBER C2.84C THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

A COPY OF THE ESPCP PLANS SHALL BE PRESENT ON THE SITE AT ALL TIMES.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITIES SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES. NO LAND DISTURBANCE SHALL TAKE PLACE OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.

1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLANS. THE STONE SIZE SHALL CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M266-96, SECTION 7.3 SEPARATION REQUIREMENTS.

2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXIT ALL TYPE %G+ SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

3. TYPE 'C' SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ACHIEVED. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING ACHIEVED. STORM STRUCTURES AS SHOWN ON THE PLANS. SEE SEPARATE DETAIL FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.

5. STONE CHECK DAMS SHALL BE INSTALLED ON ALL EXISTING CONCENTRATED FLOWS AS SHOWN ON THE PLANS.

6. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUNOFF.

IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983.

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

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 14 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE, ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

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

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

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES IF FULL IMPLEMENTATION OF THE 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 AS DIRECTED BY THE LEVEL II DESIGN PROFESSIONAL.

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

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

## GRADING PHASE **EROSION CONTROL**

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATION, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT THE VARIOUS STAGES OF CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

TYPE %G+ SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUNOFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT AND FILL SLOPES ARE NOT TO EXCEED %2H:1V+

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON

THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION. ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS

ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 14 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

AFTER PRELIMINARY GRADING ACTIVITIES. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED CONDITIONS EXIST IN THE FIELD THAT WARRANT CONSTRUCTION OF ADDITIONAL EROSION ONE HALF THE CAPACITY OF THE DEVICE, ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. INDICATORS MUST BE INSTALLED IN SEDIMENT BASINS INDICATING THE 1/3 FULL VOLUME FOR CLEANOUT.

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

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL CONTROL SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLANS AS ACCESS IS THE SEDIMENT SOURCE AS DIRECTED BY THE ON-SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL.

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

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

THIS PROPERTY IS LOCATED WITHIN A SHADED ZONE X FLOODPLAIN PER FEMA FIRM PANEL 13089C0016 H EFFECTIVE DATE MAY 7, 2001

MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.

A 50-FOOT UNDISTURBED BUFFER AND A 75-FOOT IMPERVIOUS SETBACK IS TO BE MAINTAINED ADJACENT TO ALL STREAMS.

DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.

CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.

FOR INFRASTRUCTURE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN SEVEN (7) DAYS AFTER INSTALLATION. ALTERNATIVELY, FOR LINEAR INFRASTRUCTURE PROJECTS, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT (a) THE INSTALLATION OF THE SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS FOR THE "INITIAL SEGMENT" OF THE LINEAR INFRASTRUCTURE PROJECT AND (b) ALL SEDIMENT BASINS WITHIN THE ENTIRE LINEAR INFRASTRUCTURE PROJECT WITHIN SEVEN (7) DAYS AFTER INSTALLATION. FOR THE PURPOSES OF THE SPECIFIC REQUIREMENTS IN PART IV.A.5., THE DISTURBED ACREAGE OF THE "INITIAL SEGMENT" OF A LINEAR INFRASTRUCTURE PROJECT MUST BE EQUAL TO OR GREATER THAN 10% OF THE TOTAL ESTIMATED DISTURBED ACREAGE FOR THE LINEAR INFRASTRUCTURE PROJECT BUT NOT LESS THAN ONE (1) ACRE. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

## FINAL PHASE **EROSION CONTROL NOTES**

IT WILL NOT ENTER THE INLETS AGAIN.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.

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

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

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

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE-HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

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

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

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE 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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

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

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

UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

## CRITICAL WORK ZONE **EROSION CONTROL NOTES:**

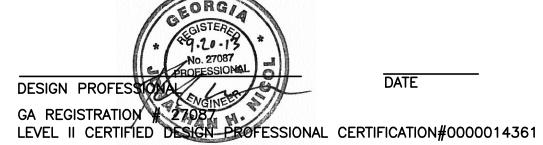
HATCHED AREAS SHOWN ON THE EROSION CONTROL PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DRAIN ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT. 3:1 SLOPES SHALL RECEIVE MATTING AS SPECIFIED ON THE EROSION CONTROL PLANS.

## DESIGN PROFESSIONAL'S **CERTIFICATION**

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

(2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

(3) % CERTIFY THAT THE PERMITTEES EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED. I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT. UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002. THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.+



## NPDES PERMIT COVERAGE

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EDP). GENERAL PERMIT NO. GAR 100002. FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE PROJECTS.

AUTHORIZED DISCHARGES 1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.a

2.ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT, PART III.A.1

3. AUTHORIZED MIXED STORMWATER DISCHARGES: PART I.C.2 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 STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT. C.STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES

4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2

A. FIRE FIGHTING ACTIVITIES B. FIRE HYDRANT FLUSHING

C. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING

CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

D. IRRIGATION DRAINAGE E. AIR CONDITIONING CONDENSATE

F. SPRINGS G. UNCONTAMINATED GROUND WATER H.FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT

LIMITATIONS ON COVERAGE PART I.C.3 1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION

> SITES ARE NOT AUTHORIZED BY THIS PERMIT: A. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES 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-STORMWATER OTHER THAN DISCHARGES THAT ARE IDENTIFIED IN PART II.A.2 OF THIS PERMIT AND THAT ARE IN COMPLIANCE WITH PART IV.D.6 (NON-STORMWATER DISCHARGES) OF THIS PERMIT.

C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL 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.

D. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE, OR MAY REASONABLY BE EXPECTED TO BE, CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

2. 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 MATERIAL SPILLS OR RELEASES ACT (O.C.G.A 12-14-2, ET SEQ.) 40 CFR 117 OR CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4883 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) SAMPLING FREQUENCY 424-8802. PART III.B.1

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL. PART III.B.2

WATER QUALITY COMPLIANCE PART I.C.4

ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 301-3-6-03.

## NPDES PERMIT COVERAGE

SEE SHEETS C2.80, C2.81 AND C2.82 FOR SAMPLING LOCATIONS.

SAMPLING METHODOLOGY PART IV.D.6

All SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED). THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

2.LARGE MOUTH, CLEAN, AND RINSED GLASS OR PLASTIC JARS WITH A MINIMUM SAMPLE SIZE OF 200 MILLILITERS SHOULD BE USED FOR COLLECTING SAMPLES. 3. SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND

VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S) 4. SAMPLES SHALL BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

5.MANUAL, AUTOMATIC, OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS

FLOW-THROUGH AUTOMATED ANALYSIS IS UTILIZED. 6.IF MANUAL SAMPLING IS EMPLOYED, THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. AND CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

7.THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN AT THE DISCHARGE FARTHEST UPSTREAM AT THE SITE BUT DOWNSTREAM OF ANY OTHER STORMWATER 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.

8. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN AT THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE BUT UPSTREAM OF ANY OTHER STORMWATER 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. 9.PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS

ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT.

10.DILUTION OF SAMPLES IS NOT REQUIRED. 11.SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER.

12.SAMPLES ARE NOT REQUIRED TO BE COOLED. 13. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E OF THE PERMIT.

14.TURBIDITY RESULTS THAT EXCEED 1000 NTUI SHALL BE REPORTED AS "EXCEEDS 1000 NTU".

PART IV.D.6.d

FORTY-FIVE (45) MINUTES OF:

1. SAMPLING FREQUENCY SHALL OCCUR IN ACCORDANCE WITH PART IV.D.6.d OF THE PERMIT. 2.FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN

A.THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN PRIOR TO THE ACCUMULATION. B.THE BEGINNING OF ANY STORMWATER 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. C.WHERE MANUAL AND AUTOMATIC SAMPLING ARE NOT POSSIBLE (AS DEFINED IN THE 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 STORMWATER DISCHARGE D.NORMAL BUSINESS HOURS AS DEFINED BY THE PERMIT ARE MONDAY THROUGH FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE.

EVENTS FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM: A.THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA

3.SAMPLING SHALL OCCUR FOR THE FOLLOWING QUALIFYING

OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION. B.THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING

LOCATION. 4.IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERTY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN 2 BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED. 5.THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF 3.A. AND 3.B. BY COLLECTING TURBIDITY SAMPLES FROM ANY

RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS

FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

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LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION#14361

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EVISIONS DATE INITIAL REQUESTER BY

SHEET TITLE

**EROSION CONTROL** NOTES

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY SCALE N/A CHECKED BY

SHEET NUMBER C2.85

24 HOUR EMERGENCY CONTACT: BRENT WALKER - 678-382-6857 PRIMARY PERMITTEE AND OWNER: CITY OF DUNWOODY PARKS & RECREATION DEPARTMENT 41 PERIMETER CENTER EAST, SUITE 250 DUNWOODY, GA 30346

THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100002. THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

#### **SITE DESCRIPTION:**

LOCATED WITHIN THE PROPERTY SITUATED AT 4770 N PEACHTREE ROAD, DUNWOODY GA. THE ENTIRE SITE CONTAINS ±103.0 ACRES.

AN EXISTING COMMUNITY PARK.

CONSTRUCTION WILL BEGIN WITH PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS AND CONSTRUCTION ENTRANCES. AFTER THESE EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN INSTALLED, CLEARING AND GRUBBING OF VEGETATION WILL COMMENCE IN AREAS THAT ARE TO BE DISTURBED. THE SITE WILL THEN BE GRADED AND UTILITIES WILL BE STABILIZED WITH VEGETATION, SIDEWALKS OR STRUCTURES.

STORM WATER RUNOFF FROM THIS DEVELOPMENT WILL BE DETAINED IN THE MODIFIED EXISTING DETENTION POND AND TEMPORARY EROSION CONTROL MEASURES.

#### ZONING:

THIS SITE IS ZONED FOR A MUNICIPAL PARK

#### <u>SURVEY INFORMATION:</u>

GIS DEPARTMENT.

THERE IS SHADED ZONE X FLOODPLAIN ON THIS PROPERTY PER FLOOD INSURANCE RATE MAPS, COMMUNITY NUMBER 13089C0016H, DATED MAY 07,

#### RUNOFF COEFFICIENT

- WEIGHTED PRE CONSTRUCTION CN CURVE NUMBER:
- WEIGHTED POST CONSTRUCTION CN CURVE NUMBER: 66

SEE OSTORMWATER MANAGEMENT STUDY FOR BROOK RUN PARK MULTI-USE TRAILÖ DATED SEPTEMBER 2012 FOR ADDITIONAL INFORMATION.

THE NCRS SOIL TYPES CAN BE FOUND ON SHEET C2.80 OF THESE CONSTRUCTION DOCUMENTS

#### SOIL DISTRIBUTING ACTIVITIES INCLUDE:

- INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS.
- CLEARING AND GRUBBING.
- EXCAVATION OF THE FOUNDATION.
- GRADING AND EXCAVATION FOR UTILITIES.
- PREPARATION FOR FINAL PLANTING AND SEEDING. COMPLETION OF ON—SITE STABILIZATION.

SEQUENCE OF MAJOR ACTIVITIES - SEE CONSTRUCTION SCHEDULE

#### NAME OF RECEIVING WATERS:

THE RECEIVING WATER FOR THIS SITE IS AN UNNAMED TRIBUTARY OF NANCY CREEK TRIBUTARY A.

#### **CONTROLS**

EROSION AND SEDIMENT CONTROLS

ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES.

DISTURBING ACTIVITIES ARE TO TAKE PLACE UPON THAT PORTION OF THE SHALL BE STABILIZED WITHIN 14 DAYS. IF THE AREA IS NOT YET TO FINAL GRADE, IT SHALL BE MULCHED. IF THE AREA IS TO FINAL GRADE AND WILL EVENTUALLY CONTAIN SITE IMPROVEMENTS SUCH AS THE STRUCTURES OR SIDEWALKS, IT SHALL BE TEMPORARY SEEDED. AREAS BROUGHT TO FINAL GRADE THAT WILL REMAIN PERVIOUS ARE TO BE PERMANENTLY SEEDED. ALLOWABLE EXCEPTIONS FROM THE NPDES GENERAL PERMIT, GAR 100002, ARE NOTED BELOW.

THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION, ACTIVITY TEMPORARY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.ö

**THE SITE ON A PORTION OF THE SITE** WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED. (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.ö

PLEASE REFER TO DETAIL SHEETS FOR THE LAND DISTURBANCE CONSTRUCTION SCHEDULE AND TEMPORARY AND PERMANENT GRASSING SCHEDULES.

#### NON- STORM WATER DISCHARGES

ALL NON-STORM WATER DISCHARGES WILL BE ROUTED THROUGH ON SITE BMP'S AND THE STORM WATER MANAGEMENT SYSTEM WHERE POSSIBLE. THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUND WATER, DEWATERING OR PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE AND RINSE ALL WATER OF NON-TOXIC MATERIALS.

## OTHER CONTROLS

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

## WASTE MATERIALS

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

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

#### **HAZARDOUS WASTES**

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN OWNER/DEVELOPER AS PRIMARY PERMITTEE WILL OVERSEE SITE CONSTRUCTION MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND ALL THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS DESCRIBE PROPERTY TO BE DEVELOPED: PROPOSED MULTI-USE TRAIL WITHIN FOR THE PRODUCT HE/SHE IS USING PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

> THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTE WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ONSITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

#### SANITARY WASTES

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

ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BOUNDARY AND TOPOGRAPHIC INFORMATION: PROVIDED BY CITY OF DUNWOODY BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, SHEET C-4B, BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

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

#### **CONCRETE WASHDOWN**

WASHOUT OF THE CONCRETE DRUM IS PROHIBITED. FOLLOWING IS A PROCEDURE TO WASHDOWN TOOLS CHUTE AND HOPPER: 1. COORDINATE WITH SITE SUPERINTENDENT TO EXCAVATE A PIT DEEP ENOUGH TO CONTAIN WASHDOWN

2. BACK IN EQUIPMENT

- 3. WASHDOWN ONLY THE CHUTE, HOPPER AND REAR OF THE VEHICLE. DO NOT WASH OUT THE DRUM. 4. MAKE SURE WASHDOWN WATER GOES INTO AND STAYS IN THE PIT.
- 5. COORDINATE WITH SITE SUPERINTENDENT TO FILL IN PIT AND SMOOTH OUT GROUND.

#### OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT SEE SHEET C2.80s FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR RACK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

#### INVENTORY FOR POLLUTION PREVENTION PLAN

THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEET ROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/ STAINS/ FINISHING TREATMENTS. PAINTS. PAINT SOLVENTS. ADDITIVES FOR SOIL STABILIZATION, CLEANING SOLVENTS, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

#### SPILL PREVENTION

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

#### GOOD HOUSEKEEPING

1. QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB. EXISTING VEGETATION SHALL BE LEFT IN PLACE UNTIL SUCH TIME THAT LAND 2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL WHERE POSSIBLE.

SITE. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND 4. PRODUCT MIXING, DISPOSAL AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE

MANUFACTURER'S RECOMMENDATIONS. 5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL,

#### PRODUCT SPECIFIC PRACTICES

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

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

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WAS WATER ONSITE.

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

BUILDING MATERIALS — NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE PROCEDURES.

#### SOIL CLEANUP AND CONTROL PRACTICES

METAL WASTE CONTAINERS.

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY
- POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES BUT IS NOT LIMITED TO BROOMS. DUSTPANS. MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT. THE NATIONAL CENTER WILL BE CONTACTED WITH IN 24 HOURS. • FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE
- CONTACTED WITHIN 24 HOURS. • FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED **PROFESSIONAL** 

## PRIMARY PERMITTEE

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

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 ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE

3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NONWORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE\$ CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEES SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). 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 (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

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 CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RÉLATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION. SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS

THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FORM THE OMANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIAO, FIFTH

CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TROP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE. WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN

SEDIMENT SHALL BE REMOVED FROM SILT FENCES ONCE IT HAS BEEN ACCUMULATED TO ONE—HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACES WHENEVER IT HAS DETERIORATED TO SUCH AN SIX MONTHS).

SEDIMENT SHALL BE REMOVED FROM TRAPS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ON-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION.

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT INTER THE INLET AGAIN.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED. ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

REPAIR ALL DAMAGES CAUSED TO TEMPORARY SEDIMENT BASINS BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE SPECIFIED DISTANCE BELOW THE TOP OF THE RISER. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGE WAYS DURING SEDIMENT REMOVAL OR DISPOSAL. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT ADJACENT TO A STREAM OR FLOODPLAIN.

INSPECT RIP RAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE OR IT STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

PERMANENT VEGETATION SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGIONS, SUCH THAT WITHIN THE GROWING SEASON 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION, UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

> 24 HOUR EMERGENCY CONTACT: BRENT WALKER - 678-382-6857 PRIMARY PERMITTEE AND OWNER: CITY OF DUNWOODY PARKS & RECREATION DEPARTMENT 41 PERIMETER CENTER EAST, SUITE 250 DUNWOODY, GA 30346



LOSE&ASSOCIATES, INC 1314 5th Avenue North, Suite 20 Nashville, TN 37208 (615) 242-0040 220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017

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REVISIONS NO. | DATE | INITIAL | REQUESTE BY

SHEET TITLE

**EROSION CONTROL** NOTES

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY ISCALE N/A CHECKED BY

SHEET NUMBER C2.86 SAMPLE ANALYSIS

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40CFR PART 136 AND THE GUIDANCE DOCUMENT TITLES NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT EPA 833-B-92-001.

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE UPSTREAM AND DOWNSTREAM LOCATIONS INDICATED ON SHEETS C2.81A (OUTFALL 1) AND C2.82A (OUTFALL 2). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHÉRE BEST MANAGEMENT PRÁCTICES HAVE (RETENTION OF RECORDS) NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN AN INCREASE IN THE TURBIDITY OF THE  $\mid$  DISCHARGE EXCEEDING 25 NTU'S. THE NTU VALUE IS FROM PART III D.3 OF THE PERMIT.

setsSTORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALLceilangleLOCATIONS INDICATED ON SHEETS C2.82A (OUTFALL 3) AND C2.83A (OUTFALL 4). A DISCHARGE OF STORM ( WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY arphiDESIGNED. INSTALLED. AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON hightrightarrow WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75. THE VALUE THAT angleWAS SELECTED FROM APPENDIX B IN PERMIT NUMBER GAR 100002. THE NTU IS BASED UPON THE TOTAL |
anglePROJECT AREA OF 4.3 ACRES OF THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF LESS THAN angle

#### SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY <code>@GRAB SAMPLES</code> AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40CFR PART THE EPD. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED ONPDES COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-0010 AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

PER NPDES PERMIT, GAR 100002 SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL-CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED TO COLLECTING SAMPLES. WRITTEN NOTIFICATION TO THE PERMITTEE. THE JARS SHOULD BE CLEANSED THOROUGHLY TO AVOID CONTAMINATION. MANUAL, AUTOMATIC OF RISING STAGE SAMPLING MAY BE UTILIZED.

#### SAMPLING POINTS

THERE ARE (4) FOUR INSTREAM SAMPLING LOCATIONS, OUTFALL 1 IMMEDIATELY UPSTREAM AND DOWNSTREAM OF EXISTING TRAIL BRIDGE CROSSING INDICATED ON SHEET C2.81A AND OUTFALL 2 AT THE UPSTREAM END OF THE 54" CMP CULVERT BENEATH BARCLAY DRIVE AND AT THE DOWNSTREAM END OF THE 54" CULVERT ON SHEET C2.82A. THERE ARE (2) TWO OUTFALL SAMPLING LOCATIONS, OUTFALL 3 IS AT THE DISCHARGE POINT OF THE EXISTING DETENTION POND 24" RCP OUTLET INDICATED ON SHEET C2.82A AND OUTFALL 4 IS AT THE UPSTREAM END OF THE EXISTING 18" RCP BENEATH BARCLAY DRIVE INDICATED ON SHEET C2.83A PER NPDES PERMIT GAR 100002, FOR CONSTRUCTION ACTIVITIES. THE PRIMARY PERMITTEE MUST COMPLETE ALL SAMPLING. 

CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STREAM WATER CHANNEL.

- THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. THE SAMPLINGS SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- THE PRIMARY PERMITTEE DOES NOT HAVE TO SAMPLE SHEET FLOW INTO UNDISTURBED NATURAL AREAS SOIL CONDITIONS OR AREAS STABILIZED BY THE PROJECT.

SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHED OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THE PERMIT. AFTER ALL ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION. (B) IN ADDITION TO (A) ABOVE. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THE PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED

THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST. (C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE. IF BMP'S IN ANY AREA OF ANCHORED IMMEDIATELY AT IT IS SPREAD. A DISK HARROW WITH THE DISK SET OR A SPECIAL PACKER THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS 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 BMP'S ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED. (D) WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.a.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE.

(E) EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE FESUCE 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 IS REQUIRED BY (C) ABOVE.

\*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 ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

## (REPORTING

I. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. OF THE PERMIT BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THE PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- :. THE DATE(S) ANALYSES WERE PERFORMED; d. THE TIME(S) ANALYSES WERE INITIATED;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED:
- THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER COMMON BERMUDA, HULLED
- DISKS OR TAPES, ETC USED TO DETERMINE THESE RESULTS. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
- CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. 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 EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF RYE 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 HAY MULCH FOR TEMPORARY COVER IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY: IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

GOVERNING AGENCY: GA DNR — EPD

4244 INTERNATIONAL PARKWAY, SUITE 114 ATLANTA, GA 30354-3906 PHONE: (404) 362-2671

CITY OF DUNWOODY OWNER: ATTN:INSPECTOR: TBD 41 PERIMETER CENTER EAST ADDRESS: TBD DUNWOODY, GA 30346 ADDRESS: TBD PHONE: 678.382.6857 PHONE: TBD

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

A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;  $_{
m 0}$  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:

 ${f \smallint}$ D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT; E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT:  $\langle$ 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.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION). OR OTHER REPORTS REQUESTED BY THE BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON

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

THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO STORM WATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE ) OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENT OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF ANY AND ALL LOCAL, STATE AND FEDERAL AGENCIES \ HAVE GOVERNING AUTHORITY, INCLUDING THE CONDITIONS RELATED TO MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH THE ESPCP AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS AND CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL SUBSTRATA. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL AREA UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

CONVENTIONAL SEEDING EQUIPMENT

FERTILIZER(AMMONIUM NITRATE 33.5%)

FERTILIZER (AMMONIUM NITRATE 33.5%)

C. <u>SECOND-YEAR FERTILIZER:</u> (0-20-20 OR EQUIVALENT)

GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED, SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA. LEAVING ABOUT 25 PERCENT OR THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND

A. SEEDING WITH MULCH:(CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1) AGRICULTURAL LIMESTONE 4000 LBS./ACRE 1500 LBS./ACRE FERTILIZER, 5-10-15 MULCH. STRAW OR HAY 5000 LBS./ACRE APPLICATION RATE/ACRE PLANTING DATES SEEDING SPECIES HULL COMMON BERMUDA GRASS 10 LBS. 3/1-6/15 50 LBS. 9/1-10/31 FESUCE 50 LBS. 11/1-2/28 RYE GRASS 50 LBS. HAY MULCH FOR TEMP. COVER 5000 LBS. 6/15-8/31 B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

C. <u>SECOND-YEAR FERTILIZER:</u>(5-10-15 OR EQUIVALENT) 800 LBS./ACRE

HYDRAULIC SEEDING EQUIPMENT:

WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

300 LBS./ACRE

3000 LBS./ACRE

500 LBS./ACRE

A. <u>SEEDING WITH MULCH:</u> (HYDRAULIC SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1 AND STEEPER) AGRICULTURAL LIMESTONE #75 4000 LBS./ACRE 1500 LBS./ACRE FERTILIZER, 5-10-15 MULCH, (STRAW OR HAY) OR 5000 LBS./ACRE WOOD CELLULOSE FIBER MULCH 1000 LBS./ACRE APPLICATION RATE/ACRE SEEDING SPECIES **PLANTING DATES** SERICEA LESPEDEZA, SCARIFIED 60 LBS. WEEPING GRASS OR 4 LBS. 3/1-6/15 6 LBS. 9/1-10/31 40 LBS. SERICEA LESPEDEZA, UNSCARIFIED 60 LBS. **FESUCE** 40 LBS. SERICEA LESPEDEZA, UNSCARIFIED 75 LBS. 11/1-2/28 50 LBS. 5000 LBS. 6/15-8/31 B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

NOTE: APPLICATION RATES SHOWN ARE MINIMUMS. OTHER PLANS MAY HAVE HIGHER APPLICATION RATES. IF DISCREPANCIES OCCUR, USE HIGHER APPLICATION RATE.

ANTICIPATED CONSTRUCTION SCHEDULE

#### **GENERAL NOTES:**

1. NO NON-EXEMPT ACTIVITIES SHALL BE CONDUCTED WITHIN THE 25 OR 50 FOOT STREAM BUFFER ALONG THE BANKS OF ALL STATE WATERS.

2. ANY AMENDMENT TO THE EROSION CONTROL PLAN WHICH HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL

3. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED LOT CONSISTING OF PAVED DRIVES, GRASSING, LANDSCAPING, AND COMMUNITY CENTER SITE.

4. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR

MORE OF THE FOLLOWING METHODS: COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING

FREQUENT WATERING OF EXCAVATION AND FILL AREAS D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/ EXIT DRIVES

5. THIS SITE IS AN EXISTING COMMUNITY PARK, THE PROJECT CONSISTS OF CONSTRUCTING A MULTI-USE TRAIL.

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

7. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.Ö

8. ©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.Ö

9. ÕANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING, Ö

10. THERE IS SHADED ZONE X FLOODPLAIN ON THIS PROPERTY PER FLOOD INSURANCE RATE MAPS, COMMUNITY NUMBER 13089C0016H, DATED MAY 07, 2001.

11. THIS SITE CONTAINS STATE WATERS AND HAS ASSOCIATED STATE AND CITY PROTECTION BUFFERS.

12. NO NON-EXEMPT ACTIVITY SHALL BE CONDUCTED WITHIN THE DELINEATED STREAM BUFFER WITHOUT PROPER VARIANCES FROM EPD AND/OR LOCAL ISSUING AUTHORITY.

13. THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED AND THE

APPROPRIATE PLAN SHEET DOES NOT INDICATE WETLANDS AS SHOWN ON THE MAPS. 14. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY

15. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON RESIDENTIAL PROJECTS AND LOTS, AND LOTS SHALL NOT EXCEED 2H:1V ON ALL OTHER PROJECTS.

16. WEEKLY EROSION AND SEDIMENT CONTROL REPORTS SHALL BE SUBMITTED TO THE DEVELOPMENT DEPARTMENT STARTING WITH THE ISSUANCE OF THE DEVELOPMENT PERMIT AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR

17. INSPECTIONS BY CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR 100002.

18. 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.

1 | 2 | 3 | 4 | 5 | 6 |

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

24 HOUR EMERGENCY CONTACT:

BRENT WALKER - 678-382-6857

PRIMARY PERMITTEE AND OWNER:

PARKS & RECREATION DEPARTMENT

41 PERIMETER CENTER EAST, SUITE 250

INSTALLATION OF

CONSTRUCTION EXIT,

CONSTRUCTION OF

PAVEMENT

FINE GRADING

LANDSCAPING

PERIMETER SILT FENCE, &

TREE PROTECTION FENCE

RETROFIT DETENTION BASIN

CLEARING & GRUBBING

PRELIMINARY GRADING

EROSION MEASURES

FINAL STABILIZATION

REMOVE TEMPORARY

**EROSION MEASURES AND** 

MAINTAIN EROSION AND

SEDIMENT CONTROL

MEASURES |

TREE PROTECTION FENCING

INSTALL GRADING PHASE

CITY OF DUNWOODY

DUNWOODY, GA 30346

## DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCC LEVEL II DESIGN PROFESSIONAL

CERTIFICATION #

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.

THESE DISCREPANCIES MUST BE ADDRESS IMMEDIATELY AND A REINSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON SITE UNTIL THE DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.



Nashville, TN 37208 (615) 242-0040 220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017

REPRODUCTION, COPYING, OR USE OF THIS RAWING WITHOUT THEIR WRITTEN CONSENT S PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION#14361

# $\triangleleft$ 0 $\Box$ <del>-</del> က

**REVISIONS** 

500+

NO. DATE | INITIAL | REQUESTE BY Æ 10/10/13 JN GA DNR −

HEET TITLE

**EROSION CONTROL** NOTES

ROJECT NUMBER|DATE 13032 9/20/2013 RAWN B SCALE N/A ECKED BY

EET NUMBER C2.87

APPENDIX B

Cold Water (Trout Stream)

Surface Water Drainage Area, square miles

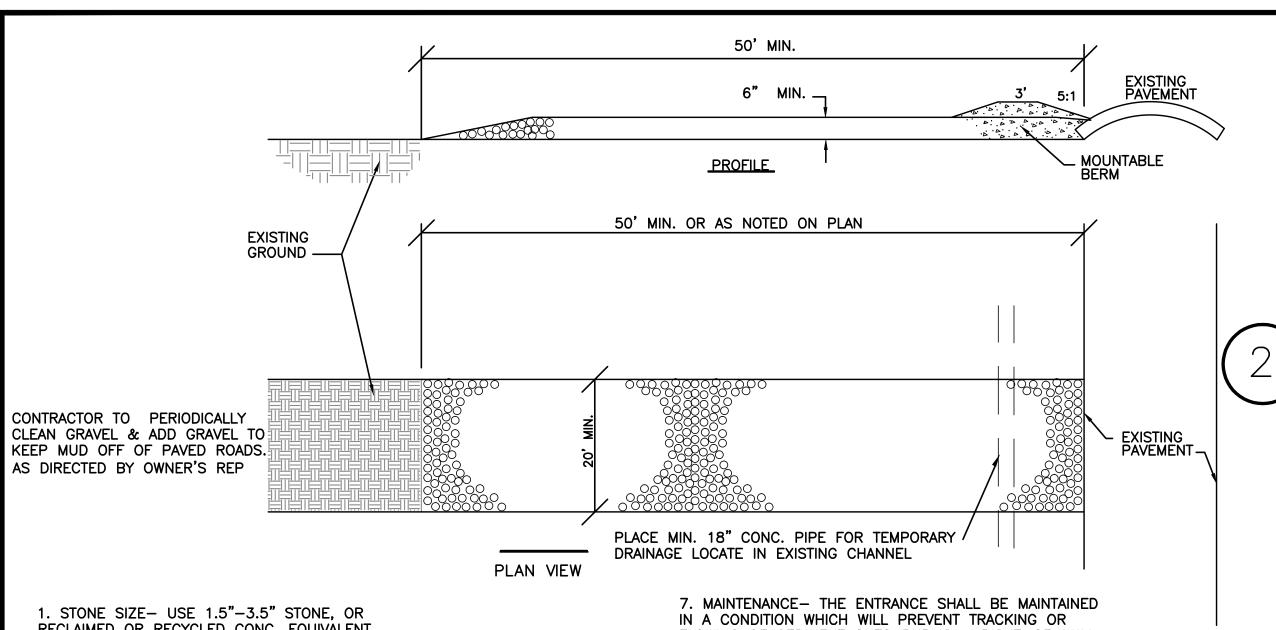
Nephelometric Turbidity Unit (NTU) TABLES

			ATE CONSTRUCTOR		9			
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99
	1.00-10	25	50	75	150	300	500	500
'i O'	10.01-25	25	25	50	75	150	200	500
Site Size, acres	25.01-50	25	25	25	50	75	100	300
	50.01-100	20	25	25	35	59	75	150
	100.01+	20	20	25	25	25	50	60

## Warm Water (Supporting Warm Water Fisheries)

Surface Water Drainage Area, square miles

	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100
	10.01-25 25.01-50 50.01-100	1.00-10 75 10.01-25 50 25.01-50 50 50.01-100 50	1.00-10     75     150       10.01-25     50     100       25.01-50     50     50       50.01-100     50     50	1.00-10     75     150     200       10.01-25     50     100     100       25.01-50     50     50     100       50.01-100     50     50     50	1.00-10     75     150     200     400       10.01-25     50     100     100     200       25.01-50     50     50     100     100       50.01-100     50     50     50     100	1.00-10     75     150     200     400     750       10.01-25     50     100     100     200     300       25.01-50     50     50     100     100     200       50.01-100     50     50     50     100     100	1.00-10     75     150     200     400     750     750       10.01-25     50     100     100     200     300     500       25.01-50     50     50     100     100     200     300       50.01-100     50     50     50     100     100     150	1.00-10     75     150     200     400     750     750     750       10.01-25     50     100     100     200     300     500     750       25.01-50     50     50     100     100     200     300     750       50.01-100     50     50     50     100     100     150     300



RECLAIMED OR RECYCLED CONC. EQUIVALENT.

- 2. LENGTH- AS REQUIRED, BUT NOT LESS THAN 50'
- 3. THICKNESS- NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH- TWENTY (20) FOOT MIN., BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
- 5. GEOTEXTILE BARRIER TO BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVIDED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM W/5:1 SLOPES WILL BE PERMITTED.

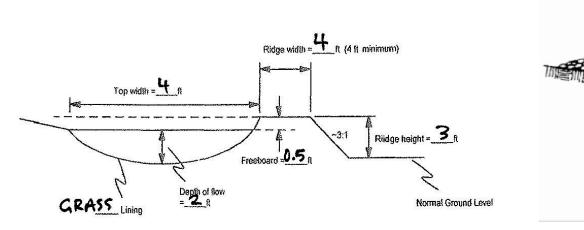
FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDÍMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE

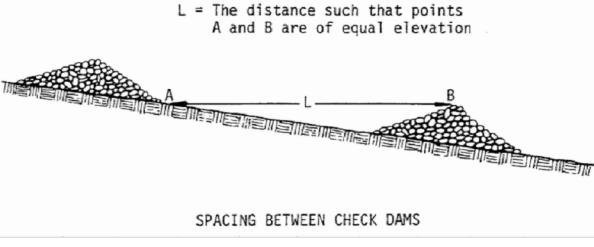
REMOVED IMMEDIATELY. AS DIRECTED BY OWNER'S REP

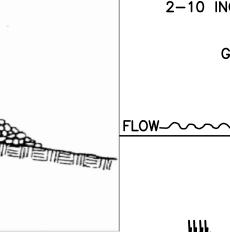
8. WASHING- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

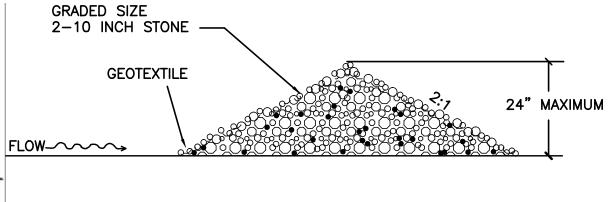
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL AFTER EACH RAIN. BE PROVIDED

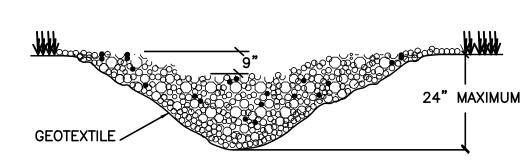
10. CONTRACTOR TO PAVE TEMPORARY ACCESS ROUTES AS DIRECTED BY THE COUNTY REPRESENTATIVE.

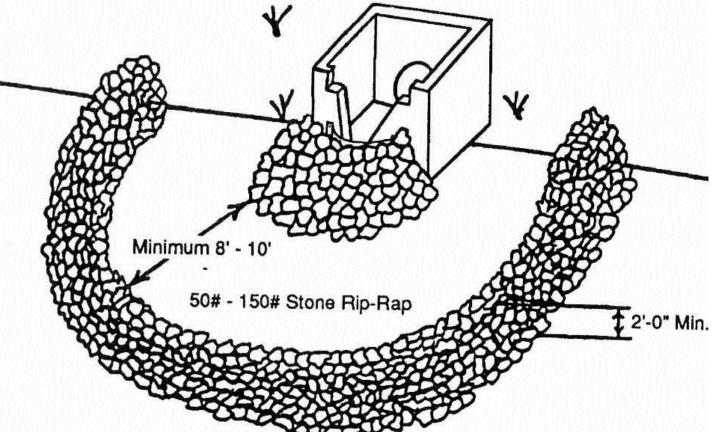












CHECK DAM - Cd-S

Table 1. Spray-On Adhesive Application Requirements								
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					

1. APPLY ACCORDING TO PLAN 2. MULCH DISTURBED AREAS AND TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL, OR TERRATACK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. 3. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT

VEGETATION. 4. IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET. 5. COVER SURFACES WITH CRUSHED STONE OR GRAVEL. 6. APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES

7. APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS DESCRIBED IN TABLE 1. 8. PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING. 9. SUPPLEMENT SURFACE COVERING AS NEEDED.

TYPE FENCE	A	В	С
Tensile Strength (Lbs. Min.) (1) (ASTM D-4632)	Warp - 120 Fill - 100		Warp - 260 Fill - 180
Elongation (% Max.) (ASTM D-4632)	40	40	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	#30	#30	#30
Flow Rate (Gal/Min/Sq. Ft.) (GDT-87)	25	25	70
Ultraviolet Stability (2) (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80	80	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester)	j 175	175	175
Minimum Fabric Width (Inches)	36	22	36

Minimum roll average of five specimens. (2) Percent of required initial minimum tensile strength.

		POST SIZE Table 6-20.3	
	Minimum Length	Type of Post	Size of Post
Туре А	4'	Soft wood Oak Steel	3" dia. or 2x4 1.5" x 1.5" 1.3lb./ft. min.
Гуре В	3'	Soft wood Oak Steel	2" dia. or 2x2 1" x 1" .75lb./ft. min.
Type C	4'	Steel	1.3lb./ft. min.

	Gauge	Crown	Legs	Staples/Post
Wire Staples	17 min.	3/4* wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/Post
Nails	14 min.	· 1*	3/4**	4 min.

## ION ENTRANCE — TO SCALE

#### INSTALLATION INSTRUCTIONS: FOR DITCH & SLOPES

- 1. SEED (PER SPEC) BEFORE PLACEMENT OF MATTING. ROLL STRIPS OUT PARALLEL TO THE DIREC-TION OF WATER FLOW, OR DOWN SLOPE. (SEE FIGURE 1)
- 2. START LAYING THE NET FROM THE TOP OF THE CHANNEL OR SLOPE AND UNROLL IT DOWN THE GRADE. ALLOW MATTING TO LAY LOOSELY ON THE SOIL BUT WITHOUT WRINKLES- DO NOT
- 3. TO SECURE THE NET, BURY THE UP-SLOPE END IN A TRENCH NO LESS THAN 6" DEEP, COVER WITH SOIL AND TAMP FIRMLY (SEE FIGURE 2). STAPLE THE MAT EVERY 12" ACROSS THE TOP END AND EVERY 3' AROUND THE EDGES AND BOTTOM. WHERE 2 STRIPS OF NET ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHOULD BE OVERLAPPED 3 INCHES AND STAPLED TOGETHER. EACH STRIP OF MATTING SHOULD ALSO BE STAPLED DOWN THE CENTER, EVERY 3'. DO NOT STRETCH THE MAT WHEN APPLYING STAPLES.
- 4. TO JOIN TWO STRIPS, CUT A TRENCH TO ANCHOR THE END OF THE NEW MAT. OVERLAP THE END OF THE PREVIOUS ROLL 18" (SEE FIGURE 2), AND STAPLE EVERY 12" JUST BELOW THE ANCHOR
- 5. INSPECT PERIODICALLY AND AFTER EACH RAINSTORM UNTIL VEGETAION IS COMPLETELY ESTABLISHED.
- 6. ERODED OR EXPOSED AREAS SHOULD BE SEEDED AND STABILIZED WITH MULCH AS QUICKLY AS POSSIBLE. JOIN STRIPS BY ANCHORING AND OVERLAPPING.

IN CHANNELS, ROLL OUT STRIPS OF NETTING PARALLEL TO THE

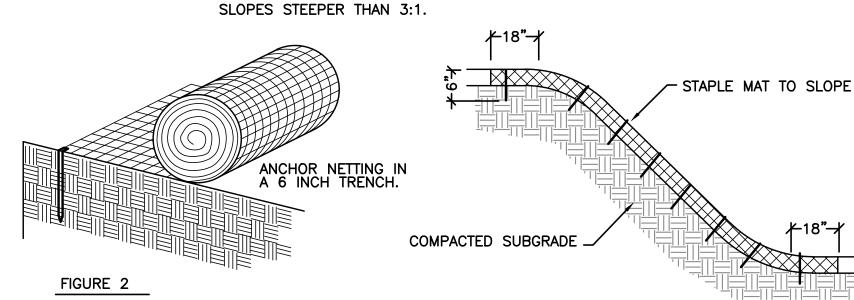
DIRECTION OF FLOW.

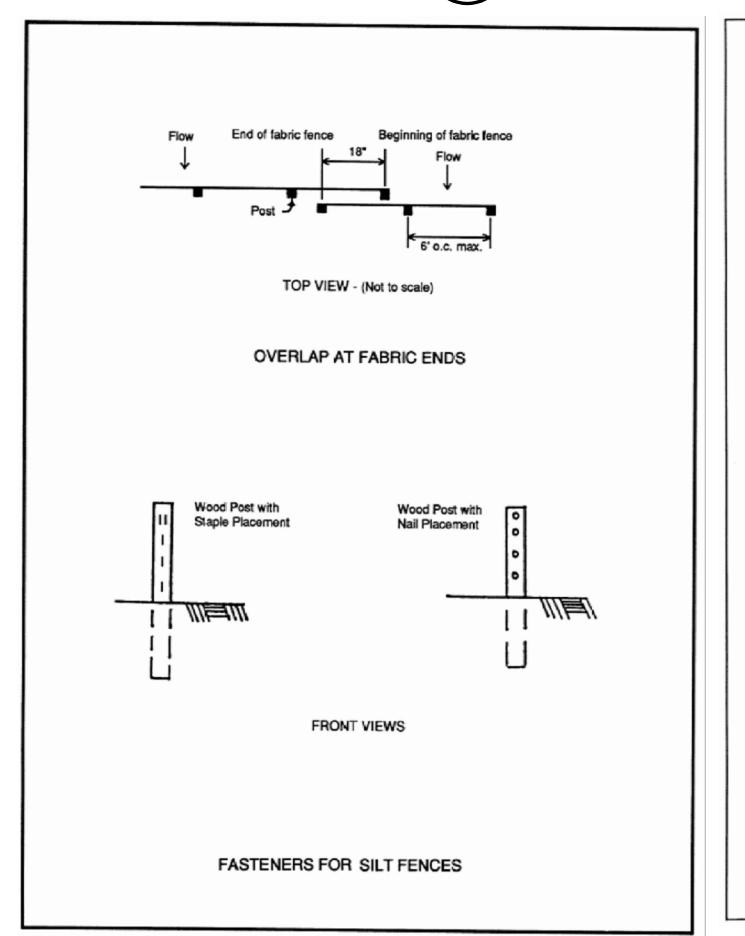
FIGURE 1

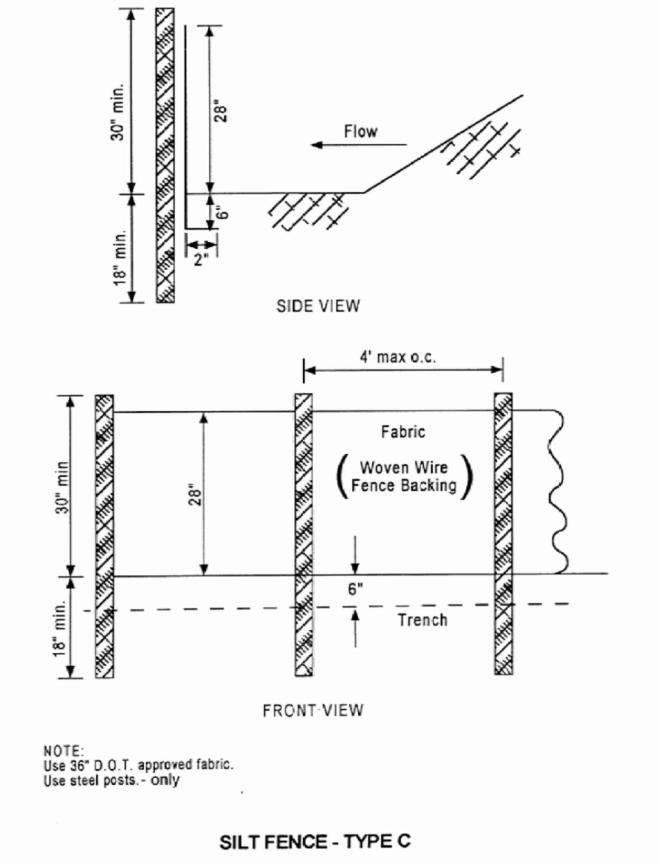
CONTRACTOR SHALL APPLY THE APPROPRIATE GEORGIA DEPARTMENT OF TRANSPORTATION APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL

MAT ON SLOPE SECTION

FIGURE 3







CRITERIA FOR SILT FENCE PLACEMENT						
	Maximum Slope Length					
Land Slope	Above Fence					
Percent	Feet					
<2	100					
210 5	75					
5 to 10	50					
10 to 20	25					
>20*	15					
'In areas where the slope is greater than 20%, a flat area						
length of 10 feet between t	he toe of the slope to the fence					
should be provided.						

CONTROL MAT - Mb

SILT FENCE (TYPE C) Sd1-C

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LEVEL II CERTIFIED DESIGN PROFESSIONAL

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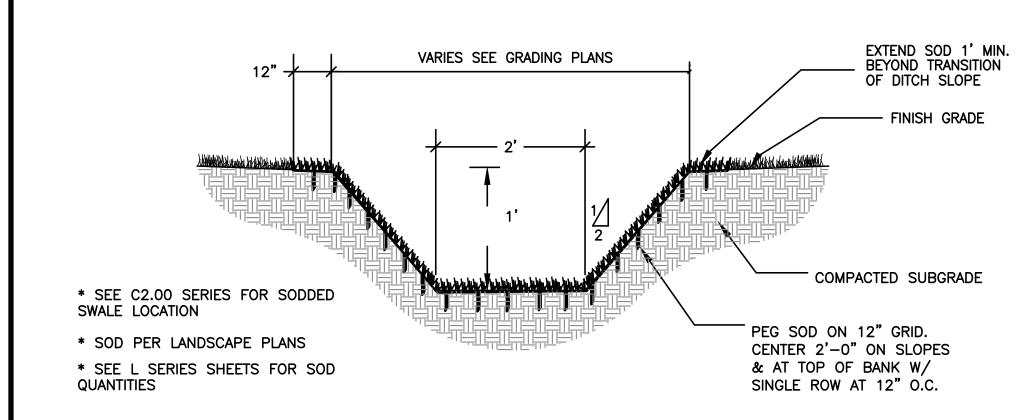
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10.	DATE	INITIAL BY	REQUESTE BY

SHEET TITLE DRAINAGE AND **EROSION CONTROL DETAILS** 

13032 9/20/2013 SHEET NUMBER

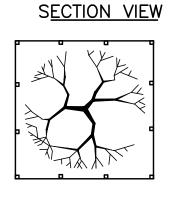
C2.90





GRASSED SWALE - VEG. C NOT TO SCALE

> SIGNAGE REQUIRED ON-SITE: TREE PROTECTION FENCE SIGNS TREE SAVE AREA <u>Salve un Arbol</u> STAY OUT! No Entrada! NOTE FOR TREE PROTECTION FENCE SIGNS: \* SMALL SIGN, ROUGHLY 12"x18" MUST BE PLACED ON TREE PROTECTION FENCE EVERY 100 FEET WITH ABOVE TEXT \* MINIMUM OF FOUR (4) SIGNS ON EVERY TREE PROTECTION **FENCE**



VARIES

FENCE POST OR-METAL FENCE POST

PLAN VIEW

\*LIMITS OF GRADING AT DRIPLINE OF TREES \*PROTECTIVE FENCING TO PRESERVE TRUNK, BRANCHES, & ROOT SYSTEM.

\*TO CONSIST OF 48" HIGH SNOWFENCE OR BOARD FENCING WITH 4"X 4" OR METAL POSTS PROTRUDING AT LEAST AT LEAST 5' ABOVE GROUND

\*NO FENCING TO BE NAILED TO TREE.

\*HEAVY EQUIPMENT, VEHICULAR TRAFFIC OR STOCKPILING SHALL NOT BE PERMITTED WITHIN DRIPLINE

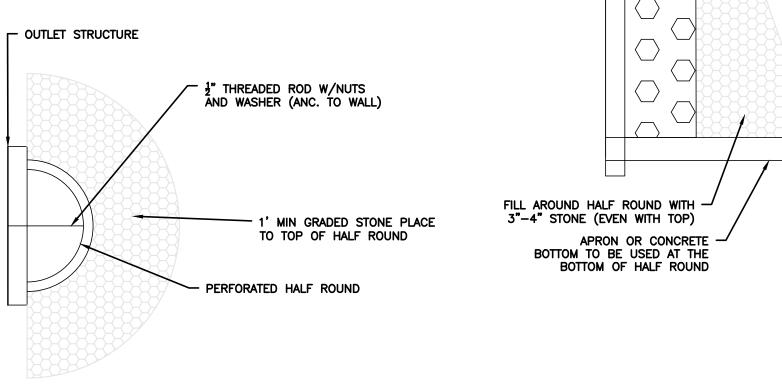
\*NO TOXIC MATERIALS TO BE STORED WITHIN 100' OF TREE DRIPLINE

\*IN AREAS WHERE FOOTINGS & PAVEMENT WILL PENETRATE INTO THE DRIPLINE AREA. A LICENSED TREE SURGEON SHALL BE CALLED IN TO DO ROOT PRUNING PRIOR TO BEGINNING CONSTRUCTION.

PROTECTION FENCING

SEDIMENT BASIN DESIGN#1 . REQUIRED STORMWATER STORAGE = 1988.4 CY (PER LOCAL ORDINANCE) 2. REQUIRED SEDIMENT STORAGE = 26.8 CY (67 CY/AC\*0.4 AC DISTURBED AREA) 3. TOTÁL REQUIRED STORAGE= 1988.4 CY + 26.8 CY = 2,015.2 CY4. AVAILABLE STORAGE = 2219.6 CY 5. IS REQUIRED STORAGE AVAILABLE—YES 7. CLEAN-OUT ELEVATION = 982.5 (22 CY/DISTURBED ACRE \* 0.4 AC DISTURBED) = 8.8 CY B. IS LENGTH TO WIDTH RATIO 2:1 OR GREATER-YES 9. BAFFLES REQUIRED-NO CMP HALF-ROUND DIAMETER=48", HEIGHT=2.0'

> ELEVATION WHEN SEDIMENT CLEANOUT IS REQUIRED (1) FULL. PLACE A MARK AT ELEVATION SPECIFIED



NOTE:
1. REMOVE RETROFITTING UPON FINAL STABILIZATION

RETROFITTED OUTLET STRUCTURE - Rt NOT TO SCALE

WITH TEMPORARY SEEDING:

/ 48" DIA. PERFORATED HALF

ROUND

1. APPLY ACCORDING TO PLAN AND SPECIFICATIONS 2. INSTALL ALL EROSION CONTROL MEASURES PRIOR TO APPLYING TEMPORARY VEGETATION. 3. GRADING OR SHAPING ARE NOT REQUIRED IF SLOPES CAN BE PLANTED WITH A

HYDROSEEDER OR BY HAND-SEEDING. 4. SEEDBED PREPARATION IS NOT REQUIRED IF SOIL IS LOOSE AND NOT SEALED BY RAIN. 5. WHEN THE SOIL IS SEALED OR CRUSTED, IT SHOULD BE PITTED, TRENCHED OR SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

6. AGRICULTURAL LIME IS NOT REQUIRED. 7. FERTILIZER IS NOT REQUIRED ON FAIRLY FERTILE SOILS.

8. FERTILIZE LOW FERTILITY SOILS BY ADDING AND MIXING INTO THE SOIL 600 LBS PER ACRE OF 10-10-10 FERTILIZER OR APPROVED ALTERNATE. 9. APPLY SEED BY HAND, CYCLONE SEEDER, OR HYDRO-SEEDER.

10. CHECK THE TAG ON THE BAG OF SEED TO VERIFY THE TYPE AND GERMINATION OF SEED

11. RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS. 12. PROVIDE TEMPORARY SEEDING PER THE FIELD MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ALL PERMANENT GRASS SEEDING TO BE WEEPING LOVEGRASS @ 4 POUNDS PER ACRE ON SLOPES GREATER THAN 3:1 OR COMMON BERMUDA @ 75 POUNDS PER ACRE ON SLOPES 3:1 OR LESS. IF AREAS ARE PREPARED FOR PERMANENT SEEDING, AND PROPER SEASON OR GROWING CONDITIONS AS NOTED IN THE FIELD MANUAL DO NOT EXIST, DO NOT PLANT ALTERNATE PERMANENT GRASS. CONTINUE TO USE TEMPORARY GRASS SPECIES UNTIL PROPER GROWING CONDITIONS ARRIVE (AS DETERMINED BY THE FIELD MANUAL) FOR THE ESTABLISHMENT OF PERMANENT LOVEGRASS OR BERMUDA. SEE PROJECT SPECIFICATIONS FOR DEFINITIONS AND OWNER'S ACCEPTANCE OF ESTABLISHMENT.

## DISTURBED AREA STABILIZATION

1. APPLY ACCORDING TO PLAN 2. MARK VEGETATION TO BE RETAINED WITH FENCING OR HIGHLY VISIBLE MARKS (SEE C2.80 SERIES SHEETS) 3. SEE SECTION 12-7-6 OF E&SC LAW FOR MINIMUM STREAM BUFFER WIDTHS.

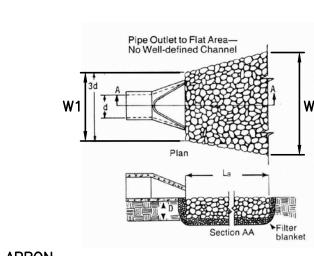
# BUFFER ZONE - Bf

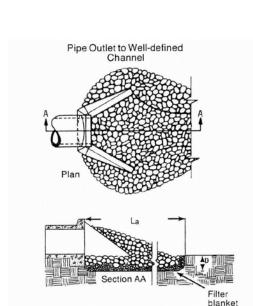
1. APPLY ACCORDING TO PLAN AND SPECIFICATIONS 2. TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEED AND STONES AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. 3. STRIPPING DEPTH OF 4 TO 6 INCHES IS COMMON AND SHOULD BE CONFINED TO THE IMMEDIATE

CONSTRUCTION AREA. 4. STOCKPILES MAY BE VEGETATED AND SHOULD NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE. 5. IF SUBSOIL IS COMPOSED OF HEAVY CLAYS, LIME SHALL BE SPREAD AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET.

6. SUBSOIL SHOULD BE LOOSENED BY DISCING OR SCARIFYING TO A MINIMUM DEPTH OF 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL. TRACKING BY A BULLDOZER IS ALSO ADEQUATE. 7. TOPSOIL SHOULD BE APPLIED AT A UNIFORM DEPTH OF 5 INCHES (UNSETTLED), BUT MAY BE ADJUSTED AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.

TOPSOILING - Tp





1. La IS THE LENGTH OF THE RIPRAP APRON.

2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".

3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP TO THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.

4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

OUTLET RIP	-RAP PAD	CALCULATIO	ONS													
PROJECT:	Brook Run	Park Multi-Us	se Trail P2	RAINFALL	DATA:		City of Duny	voody, GA								
PROJECT#:	13032			DESIGN ST	TORM =		25 year									
Outlet	Pipe Dia.	Discharge	Capacity	Depth			Pipe	Velocity	Froude	D <sub>50</sub>	La (Min TW)	W <sub>1</sub>	W <sub>2</sub>	D <sub>max</sub>	Thickness	Other
Structure	(in)	(cfs)	(cfs)	(in)	Manning's	n	Slope (%)		Number	(in)	(ft)	(ft)	(ft)	(in)	(in)	
Α	24	18.60	28.20	14.69	0.012		1.34%	9.60	1.53	6	13	6	15	9	14	NONE
В	24	11.00	27.10	11.05	0.012		1.23%	8.20	1.51	6	13	6	15	9	14	NONE
C2	15	4.80	7.50	9.02	0.012		1.14%	6.50	1.32	6	8	4	9	9	14	NONE
C4	15	5.30	7.70	9.41	0.012	-0	1.21%	6.80	1.35	6	8	4	9	9	14	NONE
D	12	3.00	11.90	4.18	0.012		9.65%	12.60	3.76	6	6	3	7	9	14	NONE
Ē	18	8.50	11.50	11.78	0.012		1.06%	7.20	1.28	6	9	5	11	9	14	NONE

STORM DRAIN OUTLET PROTECTION

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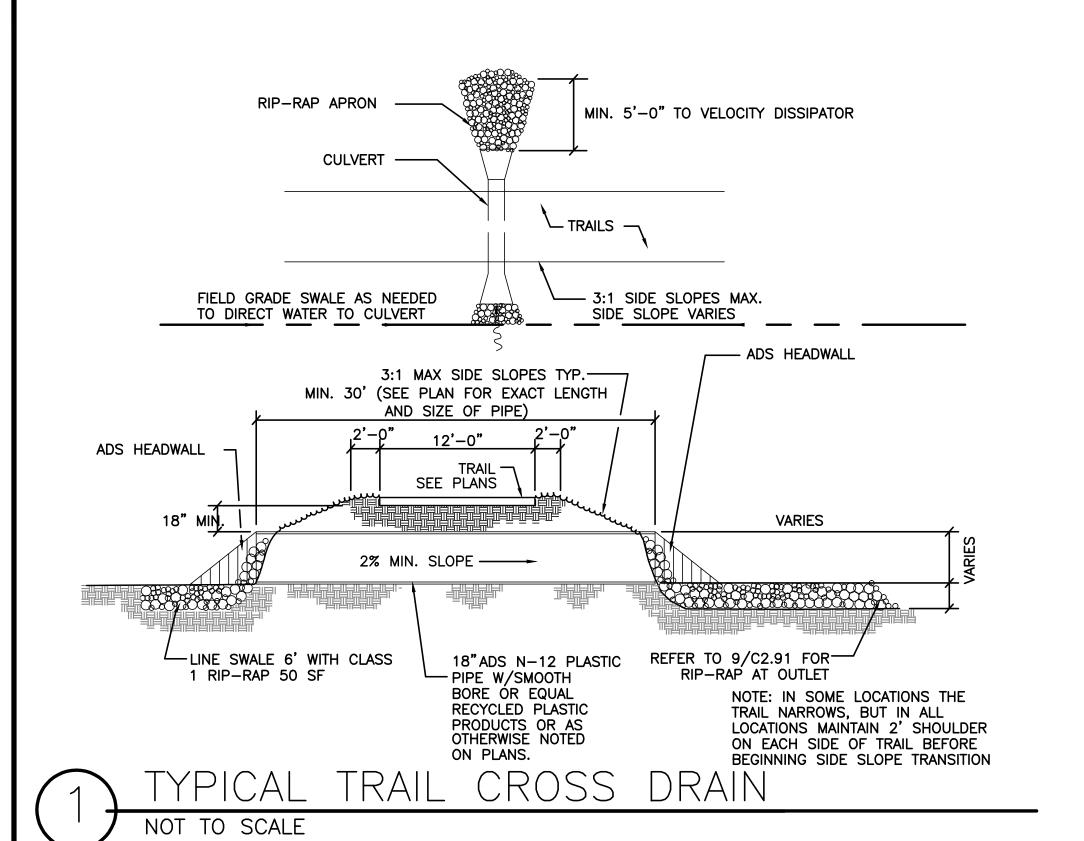
×9.20-13 LEVEL II CERTIFIED **DESIGN PROFESSIONAL** CERTIFICATION#14361

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SHEET TITLE DRAINAGE AND **EROSION CONTROL DETAILS** 

13032 9/20/2013

SHEET NUMBER C2.91



# Disturbed Area Stabilization (With Mulching Only) Ds1



## DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

#### **PURPOSE**

- To reduce runoff and erosion
- To conserve moisture
   To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
   To increase biological activity in the soil

## REQUIREMENT FOR REGULATORY COMPLIANCE

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

Stabilization (With Sodding).

#### **SPECIFICATIONS**

#### MULCHING WITHOUT SEEDING

This standard applies to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

#### Site Preparation

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

## Mulching Materials Select one of the following materials and apply at the

- depth indicated:

  1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One
- advantage of this material is easy application.

  2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This

method of mulching can greatly reduce erosion control

3. Cutback asphalt (slow curing) shall be applied at 1200 gallons per acre (or 1/4 gallon per sq. yd.).
 4. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

## pplying Mulch When mulch is used without seeding, mulch shall

be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equip-

ment.

2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the

organic mulches.

3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian trafic due to problems of "tracking in" or damage to shoes, clothing,

## Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

4. Apply polyethylene film on exposed areas.

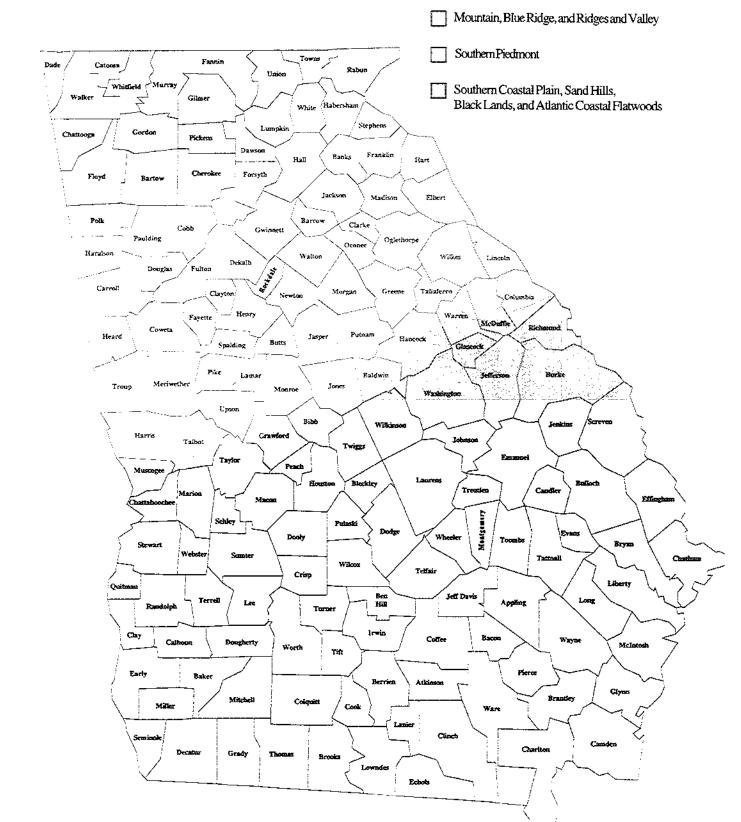
Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifers and binders can be substituted for emulsified asphalt. Please refer to specification **Tb - Tackifers and Binders**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

 Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchor trenched at the

top as well as incrementally as necessary.

## Major Land Resource Areas (MLRA) of Georgia



DISTURBED AREA STABILIZATION

(WITH TEMPORARY SEEDING)

Ds2

NOTE: APPLICATION RATES SHOWN ARE MINIMUMS.
OTHER PLANS MAY HAVE HIGHER APPLICATION RATES. IF DISCREPANCIES OCCUR, USE HIGHER APPLICATION RATE.

#### Table 6-4 1

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

<u>Species</u>		dcast - PLS 3/ Per 1000 sq. ft.	Resource Area 4/	(S	iolid otted	line I lir	Date es inces nal c	dica indi	<u>P</u> ite o icate	<u>Remarks</u>										
	<u> </u>		• • • • • • • • • • • • • • • • • • • •	J	F	М	Α	М	J	J	Α	s	0	N	О					
BARLEY (Hordeum vulgare)			M-L P										_							
alone	3 bu.	3.3 lb	¢					i								14,000 seed per pound. Winterhardy. Use on productive soils.				
in mixtures	(144 lbs.) 1/2 bu. (24 lbs.)	0.6 lb.																		
LESPEDEZA, ANNUAL (Lespedeza striata)			M-L P	J	F	М	A	IVI	J	J	A	S	O	N	D					
alone	40 lbs.	0.9 lb.	С													200,000 seed per pound. May				
in mixtures	10 lbs.	0.2 lb,																		volunteer for several years. Use inoculant EL.
				_ ] J	F	м	Α	м	J	J	Α	s	0	N	Ы					
LOVEGRASS, WEEPING (Eragrostis curvula)			M-L P C													1,500,000 seed per pound. May last for several years. Mix				
alone	4 lbs.	0.1 lb.	C												İ	with Sericea lespedeza.				
in mixtures	2 lbs.	0.05 lb.								i			j							
MILLET, BROWNTOP			M-L	J	F	М	Α	М	J	J	Α	s	0	N	D					
(Panicum fasciculatum)			P C													137 000 seed per pound. Ouick				
alone	40 lbs.	0.9 lb.	U					$\dashv$			ĺ	Į				137,000 seed per pound. Quick dense cover. Will provide too much competition in mixtures				
in mixtures	10 lbs.	0.2 lb.						if seeded at high rates.												

#### Table 6-4.1 - continued

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

<u>Species</u>	Broad Rates 2/ Per Acre		(Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.)							а	<u>Remarks</u>					
MILLET, PEARL			M-L	-	'-	'''			J	J	Α	\$	0	Ν	쒸	89 000 good per pound. Quiek
Pennesetum glaucum) alone	50 lbs.	1.1 lb	P C	J	F	м	Α	М	J		 	s	0	N	D	88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
DATS			M-L	Ť	<u>'</u>	101		IVI		J.	_		_			
Avena sativa)		"	PC												İ	13,000 seed per pound. Use
alone	4 bu. (128 lbs.)	2.9 lb.	•													on productive soils. Not as winterhardy as rye or barley.
in mixtures	1 bu. (32 lbs.)	0.7 lb.		J	F	м	A	м	J	j	A	s	0	N	D	
RYE Secale cereale)	-		M-L							14111		_				· · · · · · · · · · · · · · · · · · ·
ŕ			P C								.,,,					18,000 seed per pound. Quick cover. Drought tolerant and
alone in mixtures	3 bu. (168 lbs.) 1/2 bu.	3.9 lb. 0.6 lb.												'		winterhardy.
··	(28 lbs.)			J	F	М	Α	М	J	J	Α	s	0	N	D	
RYEGRASS, ANNUAL Lolium temulentum)			M-L P		ļ	ļ <del></del>	ļ						_			
alone	40 lbs.	0.0.15	င်	,,,,,,												227,000 seed per pound. Dense
aiviit	40 IDS.	0.9 lb.		J	F	м	А	м	J	J	Α	s	0	N	D	cover. Very competitive and is not to be used in mixtures.
SUDANGRASS Sorghum sudanese)			M-L P C				******									55,000 seed per pound. Good on droughty sites. Not
alone	60 lbs.	1.4 lb														recommended for mixtures.

#### Table 6-4.1 - continued

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

<u>Species</u>	j.	dcast - PLS 3/ Per 1000 sq. ft.	Resource Area 4/	(Si	olid tted	line: lin	)ate s ind es nal c	dica indi	<u>F</u> te c cate	<u>Remarks</u>						
				J	F	М	Α	М	J	J	Α	s	0	N	D	
TRITICALE (X-Triticosecale) alone in mixtures	3 bu. (144 ibs.) 1/2 bu. (24 lbs.)	3.3 lb. 0.6 lb.	С	J	F	М	A	M	ţ	ن	A		0	N	D	Use on lower part of Southern Coastal Plain and In Atlantic Coastal Flatwoods only.
WHEAT (Triticum aestivum) alone in mixtures	3 bu. (180 lbs.) 1/2 bu. (30 lbs.)	4.1 lb. 0.7 lb.	M-L P C									****				15,000 seed per pound. Winterhardy.

- 1/ Temporary cover crops are very competitive and will crown out perennials if seeded too heavily.
- 2/ Reduce seeding rates by 50% when drilled.3/ PLS is an abbreviation for Pure Live Seed.
- 4/ M-L represents the Mountain; Blue Ridge; and Ridges and Valleys MLRAs P represents the Southern Piedmont MLRA
- C represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs

(See Figure 6-4.1, p. 6-40).

SOOK BUNN PARK

JSE TRAIL - PHASE II

EACHTREE ROAD, DUNWOODY, GA 30338

AND 354 - 18th DISTRICT PIN: 18-354-01-005

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DRAINAGE AND

EROSION CONTROL

DETAILS

PROJECT NUMBER DATE
13032 9/20/2013
DRAWN BY SCALE
CHECKED BY

SHEET NUMBER
C2.92

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Ground covers include a wide range of low-growing plants planted together in considerable numbers to cover large areas of the landscape. Ground covers grow slower than grasses. Weeds are likely to compete, especially the first

year. Maintenance is needed to insure survival. These ground covers will not be used unless proper maintenance

Fall planting is encouraged because the need for constant watering is reduced and plants have time to establish

Mature

Height

3-4 ft.

low

2-4 in.

2-4 ft.

1-2 ft.

1-2 ft.

2-3 ft.

Plant

Spacing

5 ft.

5 ft.

5 ft.

3 ft.

2 ft.

3 ft.

Comments

2 feet high. Sun, semi-shade. Semi-

Vine. Yellow, trum-

Hardy, one of best vines. Evergreen. Native to Georgia.

Needs good drain-

age, partial shade Blue or white flowers. Evergreen.

White flowers, red

White flowers, red

fruit. Sun. Ever-

Semi-evergreen.

Red in fall. Vine.

Georgia.

Deciduous. Native to

Many flower colors.

green.

fruit. Sun. Evergreen

pet-like flowers.

evergreen.

Also a prostrate form

is planned. Maintain mulch at three-inch thickness until plants provide adequate cover.

Scientific

Gelsemium

sempervirens

Ajuga reptans

Cotoneaster

Cotoneaster

Cotoneaster

horizontalis

Parthenocissue

Hemerocallis spp.

quinquefolia

Hedera helix

salicifoluis 'Repens'

dammeri

Name

Abelia grandiflora

new roots before hot weather.

Common

Albelia

Carolina

Yellow

Jessamine

Carpet Blue

Bearberry

Cotoneaster

Ground Cover

Cotoneaster

Cotoneaster

Rock

Virginia

Creeper

Daylily

English Ivy

Name

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Common

Name

Chinese Holly

**Dwarf Burford** 

Dwarf Yaupon

Repandens

Holly

Holly

Holly

Andorra

Juniper

Andorra Compacta

Juniper

Blue Chip Juniper

Blue Rug

Juniper

Parsons

Juniper

Pfitzer

Juniper

Full sun. Very hardy. NOTE: APPLICATION RATES SHOWN ARE MINIMUMS.

Shade only. Climbs. DISCREPANCIES OCCUR, USE HIGHER APPLICATION RATE

chinensis

'Pfitzerana'

OTHER PLANS MAY HAVE HIGHER APPLICATION RATES.

Compacta Holly DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Scientific Name	Mature Height	Plant Spacing	Comments	Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
ilex crenata 'Compacta'	3-4 ft.	5 ft.	Sun, semi-shade.	Prince of Wales Juniper	Juniperus horizontalis 'Prince of Wales'	8-10 in.	4 ft.	Feathery appearance.
liex cornuta 'Rotunda'	3-4 ft.	5 ft.	Very durable. Sun, semi-shade.	Sargent Juniper	Juniperus chinensis	1-2 ft.	5 ft.	Full sun. Needs good drainage. Good winter
llex burfordii 'Nana'	5-8 ft.	8 ft.		Chara luninar	'Sargentii'	0.24	<b></b>	color.
flex vomitoria 'Nana'	3-4 ft.	5 ft.	Very durable. sun, semi-shade.	Shore Juniper	Juniperus conferta	2-3 ft.	5 ft.	Emerald Sea or Blue Pacific cultivars are good.
llex crenata 'Repandens'	2-3 ft.	5 ft.	Sun, semi-shade.	Liriope	Liriope muscari	8-10 in.	3 ft.	
Juniperus horizontalis	2-3 ft.	5 ft.	Excellent for slopes. Sun.	Creeping Liriope	Liriope spicata	10-12 in.	1 ft.	Spreads by runners.
'Plumosa' Juniperus horizontalis	1-2 ft.	5 ft.	More compact than andora.	Big Leaf Periwinkle	Vinca major	12-15 in,	4 ft.	Lilac flowers in spring. Semi-shade.
'Plumosa com- pacta'				Common Periwinkle	Vinca minor	5-6 in.	4 ft.	Lavender-blue flowers in spring.
Juniperus horizontalis 'Blue Chip'	8-10 in.	4 ft.						Semi-shade
Juniperus horizontalis	4-6 in.	3 ft.	Very low. Sun.	Cherokee Rose	Rosa laevigata	2 ft.	5 ft.	Rampant grower. Not for restricted spaces. State flower.
'Wiltonii'				Memoria Rose	Rosa weuchuriana	2 ft.	5 ft.	Rampant grower.
Juniperus davurica	18-24 in.	5 ft.	One of the best, good winter cover.	St. Johnswort	Hypericum calycenum	8-12 in.	3 ft.	Semi-shade.
'Expansa' (Squamata Parsoni)				Anthony Waterer Spirea	Spirea burnalda	3-4 ft.	5 ft.	Sun.
Juniperus	6-8 ft.	6 ft.	Needs room.	Thunberg Spirea	Spirea thinbergii	3-4 ft.	5 ft.	Şun.

Thunberg Spirea thinbergii 3-4 ft. 5 ft. Sun.

DISTURBED AREA STABILIZATION

(WITH PERMANENT VEGETATION)

SITE	SOIL MATERIAL	COMMON SOILS	PLANTING TREE SPECIES 1/	SPACING	PLANTING DATES 3/
Borrow areas, graded areas, and spoil material	Sandy	Lakeland, Troup	Lobiolly pine (Pinus taeda)	2/	M-L,P 12/1-3/15 C 12/1-3/1
			Longleaf pine (Pinus palustris)		
	Loamy	Orangeburg, Tifton	Lobiolly pine	2/	M-L,P 12/1-3/15 C 12/1-3/1
			Slash pine		
	Clay	Cecil, Faceville	Loblolly pine Slash pine	2/	M-L,P 12/1-3/15 C 12/1-3/1
			Virginia pine (Pinus virginiana)		
Streambanks			Willows 4/ (Salix species)	2 ft x 2 ft	ALL 11/15 - 3/15

1/ Other trees and shrubs listed on Table 6-25.3 may be interplanted with the pines for improved wildlife benefits.

2/ Type of Planting

Tree Spacing

No. of Trees Per Acre

Trees alone

4 ft. x 4 ft.

2722

Trees in combination 6 ft. x 6 ft.

with grasses and/

3/ M-L represents the Mountains; Blue Ridge; and Ridges and Valleys MLRAs

P represents the Southern Piedmont MLRA

or other plants

C represents the Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs (See Figure 6-4.1).

4/ Fertilization of companion crop is ample for this species.

RUN PARK

TRAIL - PHASE II

E ROAD, DUNWOODY, GA 30338

- 18th DISTRICT PIN: 18-354-01-005

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9.20-13

No. 27087

PROFESSIONAL

MULTI-USE
A770 NORTH PEACH
LAND LOTS 353 AND 3

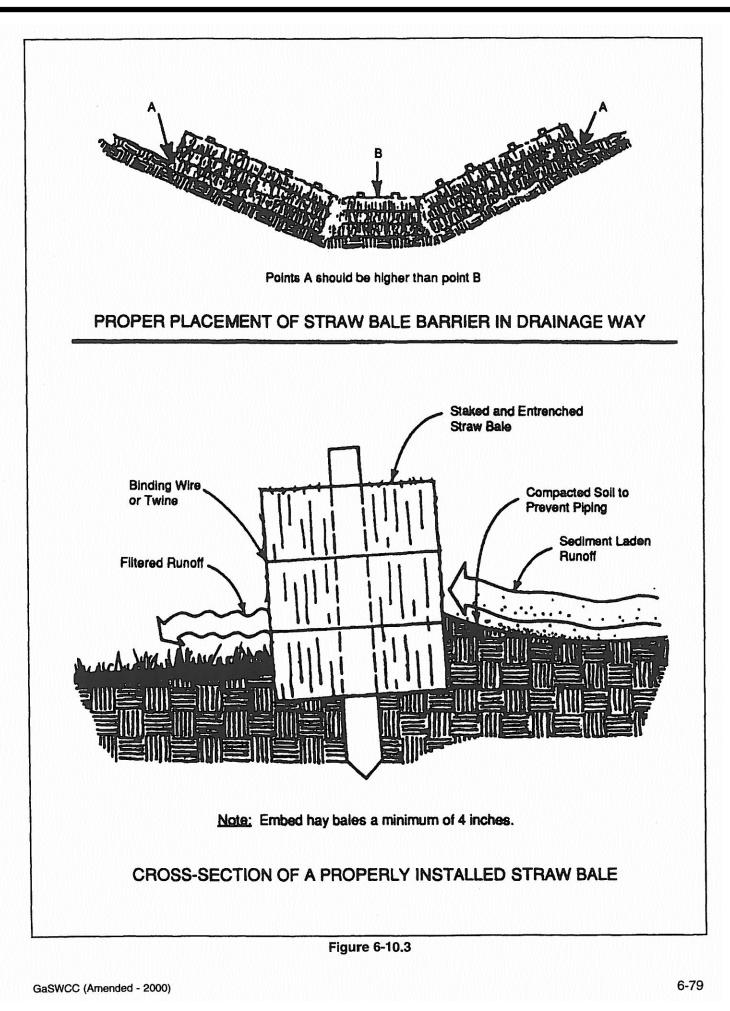
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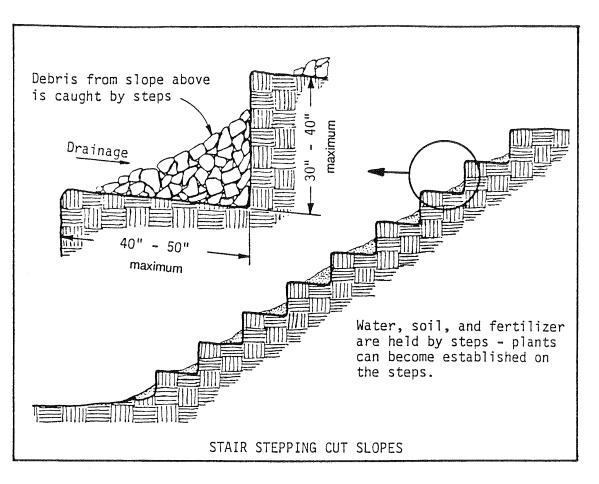
DRAINAGE AND
EROSION CONTROL
DETAILS

PROJECT NUMBER DATE
13032 9/20/2013
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CHECKED BY N/A

SHEET NUMBER
C2.93







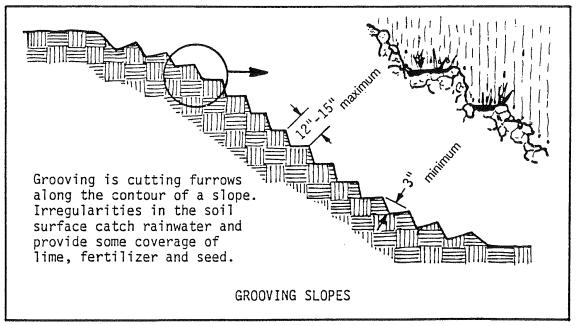


Figure 6-25.1

GaSWCC (Amended - 2000)

6-187

SURFACE ROUGHENING-Su

C2.80 Y 7. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. C2.80 Y 8. Graphic scale and north arrow. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours: USGS 1":2000' Topographical Sheets
Proposed Contours: 1" : 400' Centerline Profile Y 10. Delineation and acreage of contributing drainage basins on the project site. Y 11. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site C2.80 Y 12. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact C2.80 Y 13. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is C2.91 Y 14. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all stormwater discharge points. Y 15. Soil series for the project site and their delineation. 16. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected. C2.80 Y 17. Any construction activity which discharges stormwater into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment\* C2.80 Y 18. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 18 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.\* C2.80 Y 19. Delineate on-site drainage and off-site watersheds using USGS 1": 2000' topographical sheets. C2.80 Y 20. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. Y 21. The limits of disturbance for each phase of construction. 22. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written rationale explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. N/A 23. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org. C2.81A Y 24. Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust C2.81A Y 25. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.\* C2.86 Y 26. Provide BMPs for the remediation of all petroleum spills and leaks.\* Y 27. Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. C2.86 Y 28. Description of the nature of construction activity C2.85 Y 29. A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final C2.87 Y 30. Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). C2.87 Y 31. Description of the practices that will be used to reduce the pollutants in stormwater discharges.\* 32. Description of the measures that will be installed during the construction process to control pollutants in stormwater that will occur after construction operations have been completed. C2.85 Y 33. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit Y 34. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 14 of the permit\* C2.85 Y 35. Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G.2.d. of C2.86 Y 36. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are C2.87 Y 37. Indication that non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits. C2.85 Y 38. Indication that the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.\* C2.87 Y 39. Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.\* C2.87 Y 40. Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 C2.86 Y 41. Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed." C2.86 Y 42. Provide complete requirements of inspections and record keeping by the primary permittee.\* Y 43. Provide complete requirements of sampling frequency and reporting of sampling results.\* Y 44. Provide complete details for retention of records as per Part IV.F. of the permit.\* C2.87 Y 45. Description of analytical methods to be used to collect and analyze the samples from each location.\* C2.87 Y 46. Appendix B rationale for outfall sampling points where applicable.\* Y 47. Clearly note statement in bold letters- "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities." C2.87 Y 48. Clearly note maintenance statement in bold letters - "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." C2.87 Y 49. Clearly note the statement in bold letters - "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." C2.90 Y 50. Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. C2.92 Y 51. Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, ferfilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia. Effective January 1, 2013 \*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the \* checklist items would be N/A.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS

TO BE SHOWN ON ES&PC PLAN

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed

(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the

The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1

Project Name: Brook Run Park Multi-Use Trail P2

Plan will not be reviewed)

C2.80 Y 4. Provide name, address and phone number of primary permittee.

of the year in which the land-disturbing activity was permitted.

Y 5. Note total and disturbed acreage of the project or phase under construction.

C2.80 Y 2. Level II certification number issued by the Commission, signature and seal of the certified design professional.

C2.80 Y 3. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.

C2.80 Y 6. Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be

City/County: Dunwoody/DeKalb\_

Page #

Y/N

Address: 4770 North Peachtree Road, Dunwoody GA 30338

Date on Plans: 9/20/13

			PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF
	TH		ITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS
		Α	APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.
Plan	Included		
Page#	Y/N		
		a.	During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring
			a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer.
			During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b.	Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
		C.	Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the
			conventional flow path length to the outlet structure.
C2.80	Y	d.	Place a large sign (minimum 4 feet x 8 feet) on the site visible from the roadway identifying the construction site, the
			permittee(s), and the contact person(s) and telephone number(s).
		e.	Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days
			in accordance with Part III. D.1. of the NPDES Permits.
		f.	Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of 0.5 inch or greater within any 24
			hour period, recognizing the exceptions specified in Part IV.D.6.d. of the NPDES Permits.
		0	Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7
		g.	(a)(1).
		1	
		h.	Limit the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations).
		İ.	Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whicheve
			is less.
		j.	Use "Dirt II" techniques to model and manage storm water runoff (e.g., seep berms, sand filters, anionic Pam), available
			on the EPD website, www.gaepd.org.
		k.	Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a dept of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
C2.80	Y	l.	Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever storm water may be discharged.
C2.80	Y	m.	Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1.
		n.	Use appropriate erosion control matting or blankets instead of concrete in construction storm water ditches and storm
		115	drainages designed for a 25 year, 24 hour rainfall event
		0	Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and stor
		0.	drainages that feed into temporary sediment basins and retrofitted management basins.
-	-	_	
		p.	Install sod for a minimum 20 foot width, in lieu of seeding, along the site perimeter wherever storm water may be discharged.
		q.	Use a surface draining skimmer designed to drain temporary sediment basins and retrofitted storm water management
			basins over a minimum three (3) day period.
		r.	Certified personnel shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the en
			of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(2). (a) - (c), Part IV.D.4.b.(3). (a) - (c) or Part IV.D.4.c.(2). (a) - (c) of the NPDES Permit GAR 100003, as applicable or Part IV.D.4.a.(2) of the Permit
			GAR 100001.
			(*If working under NPDES Permit GAR 100002 see below*)
C2.80	Y	r.1.	*Certified personnel shall conduct inspections at least once every seven calendar days and within
			24 hours of the end of the storm that is 0.5 inches or greater in accordance with part IV.D.4.a.(2).  (A) - (C) of this permit.*
		S.	Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces unfil vegetation is established during the final stabilization phase of the construction activity.
		t	Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a
			Design Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission).
			( If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov )
			Effective January 1, 2013



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# MULTI-USE TRAIL - PHASE III 4770 NORTH PEACHTREE ROAD, DUNWOODY, GA 30338

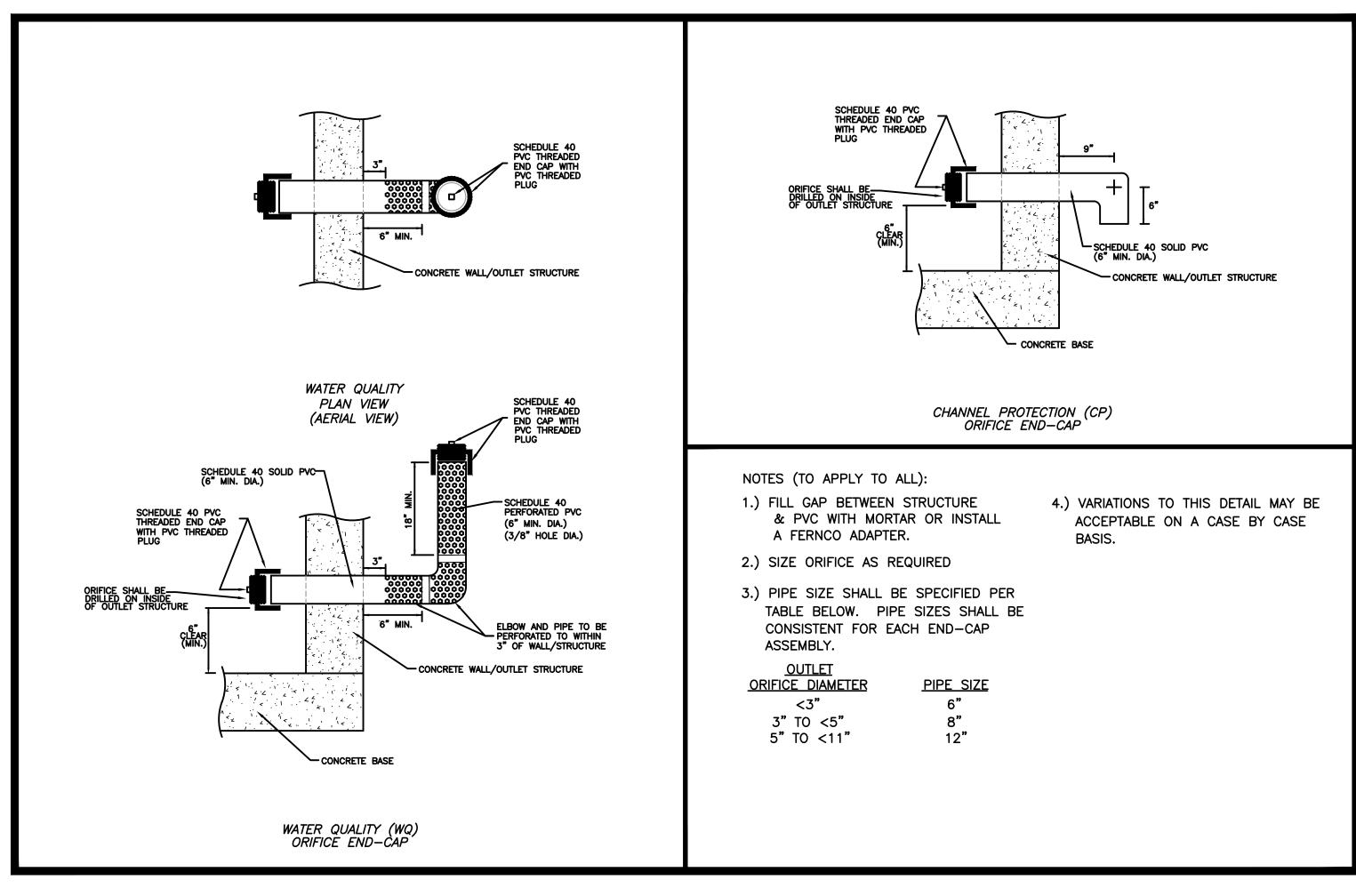
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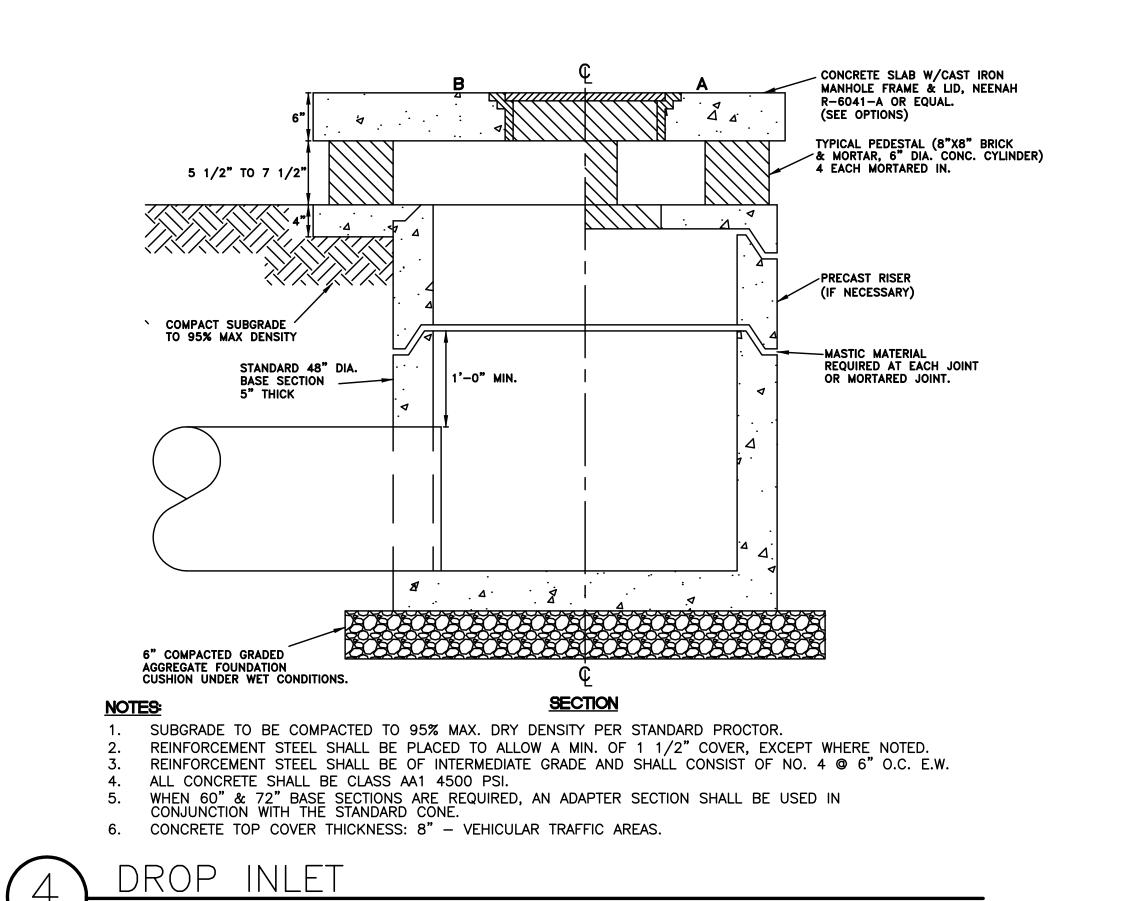
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EROSION CONTROL
DETAILS

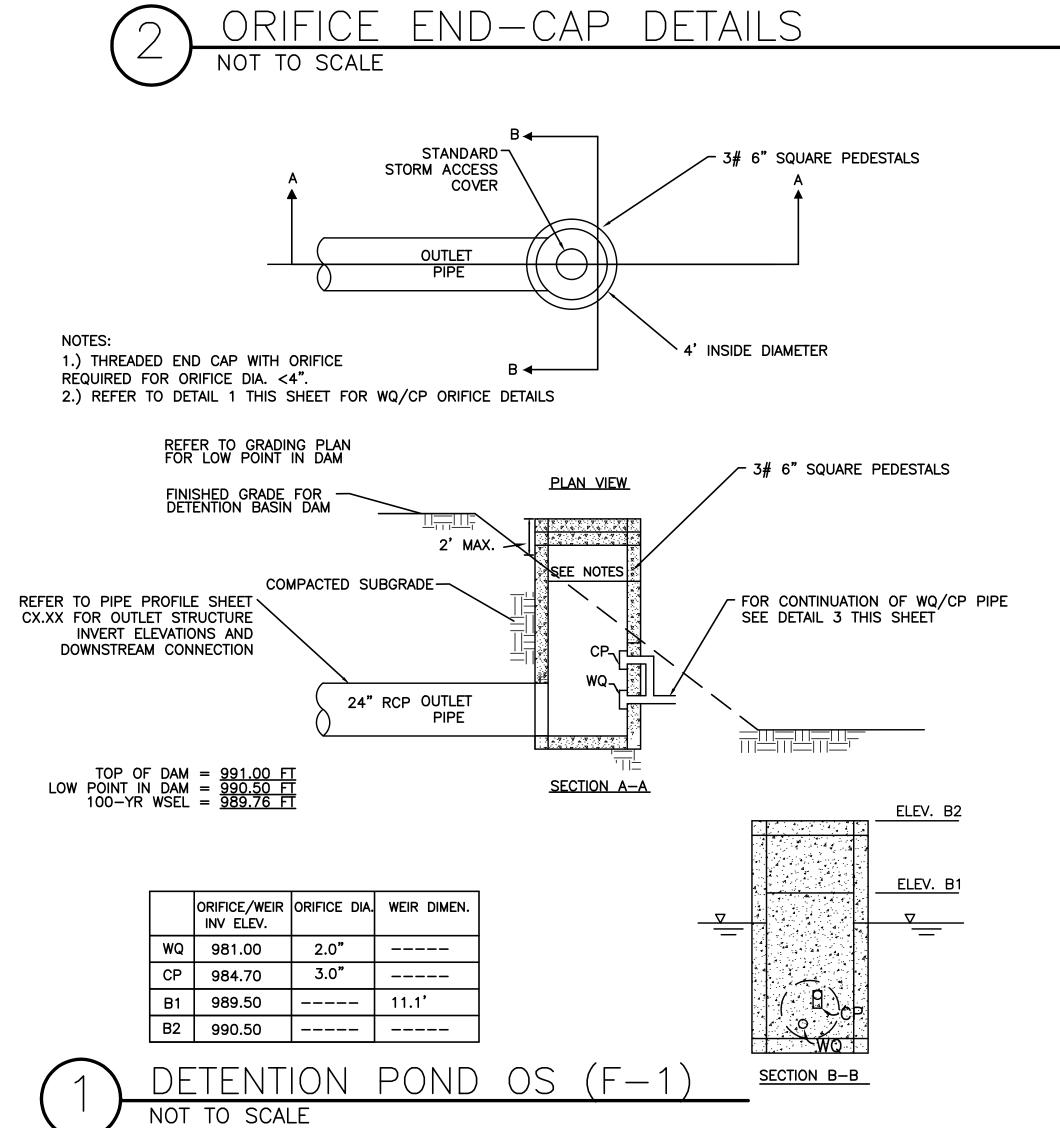
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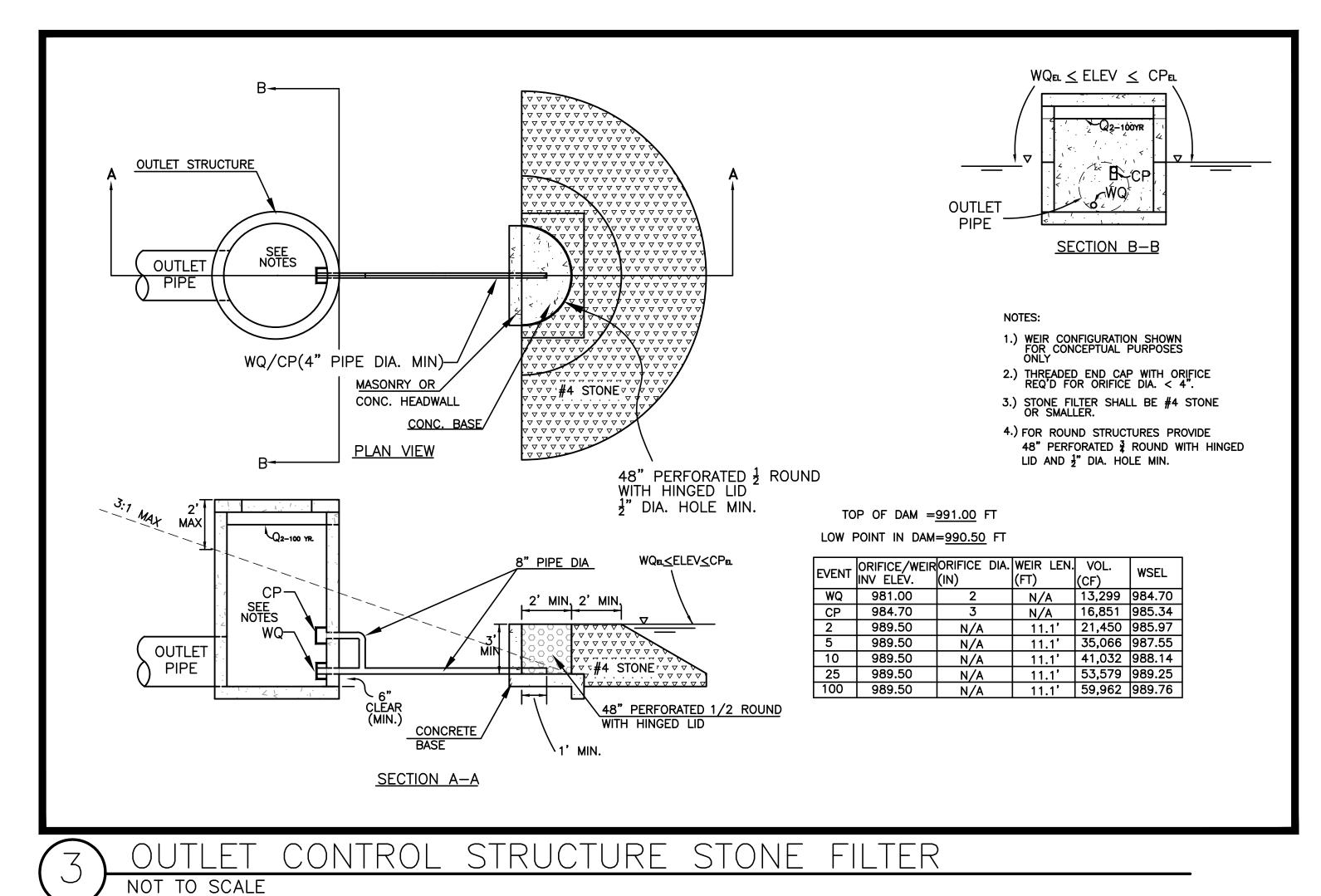
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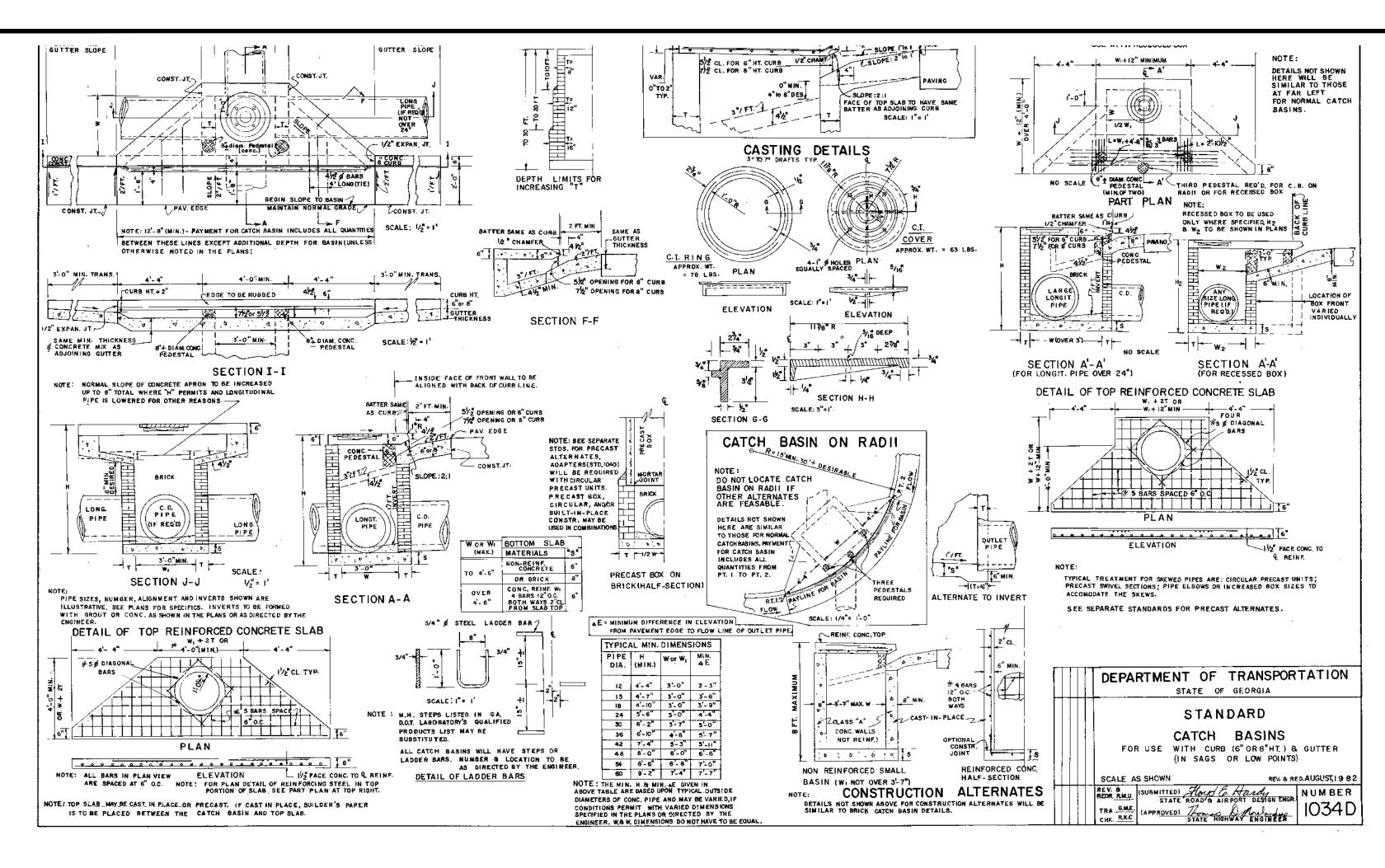
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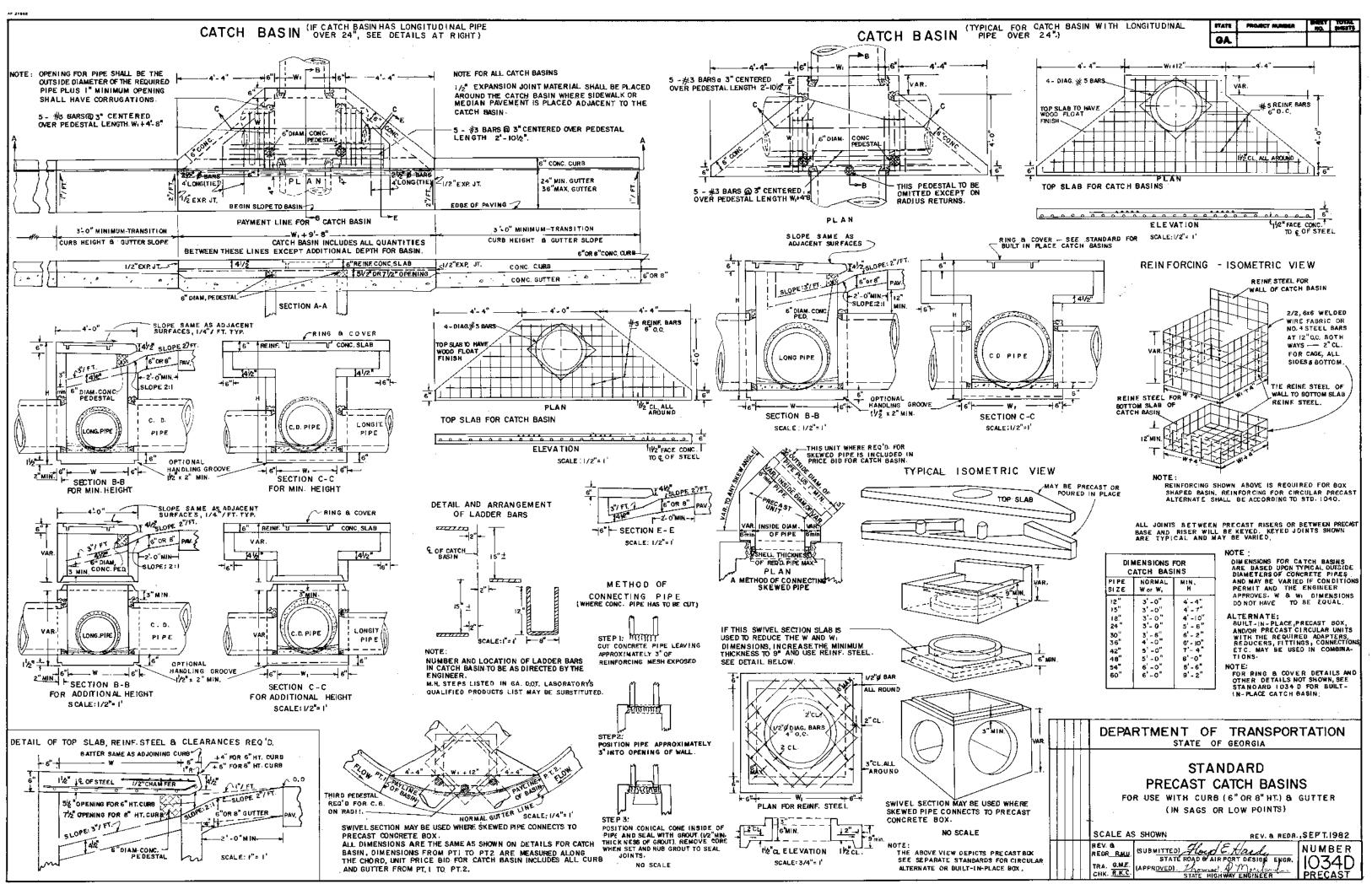
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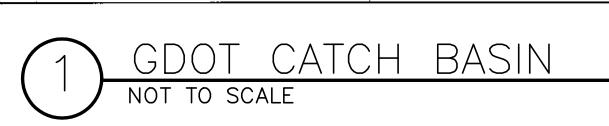
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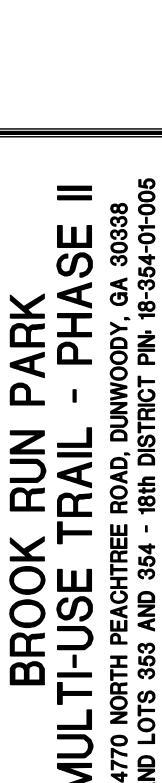
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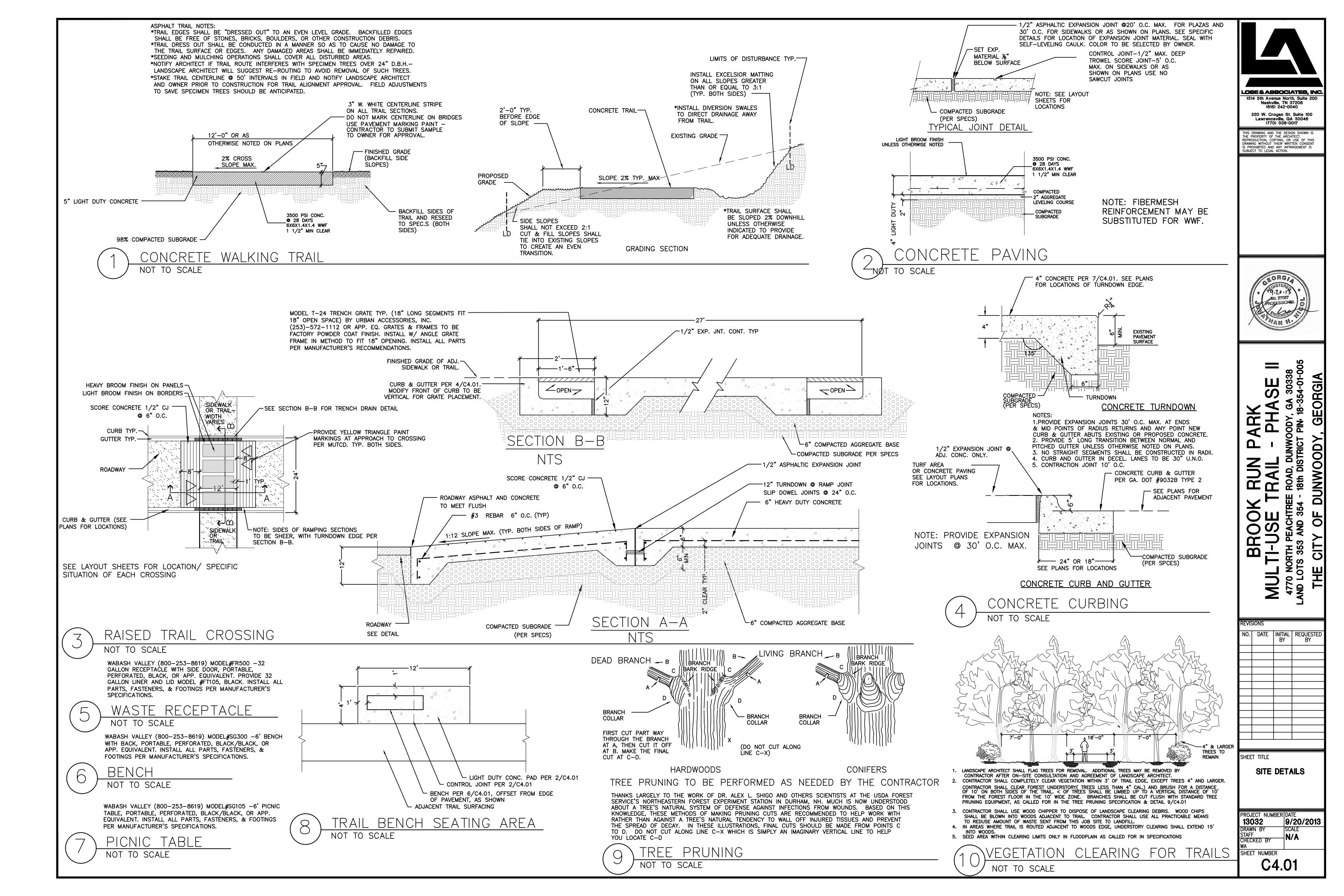
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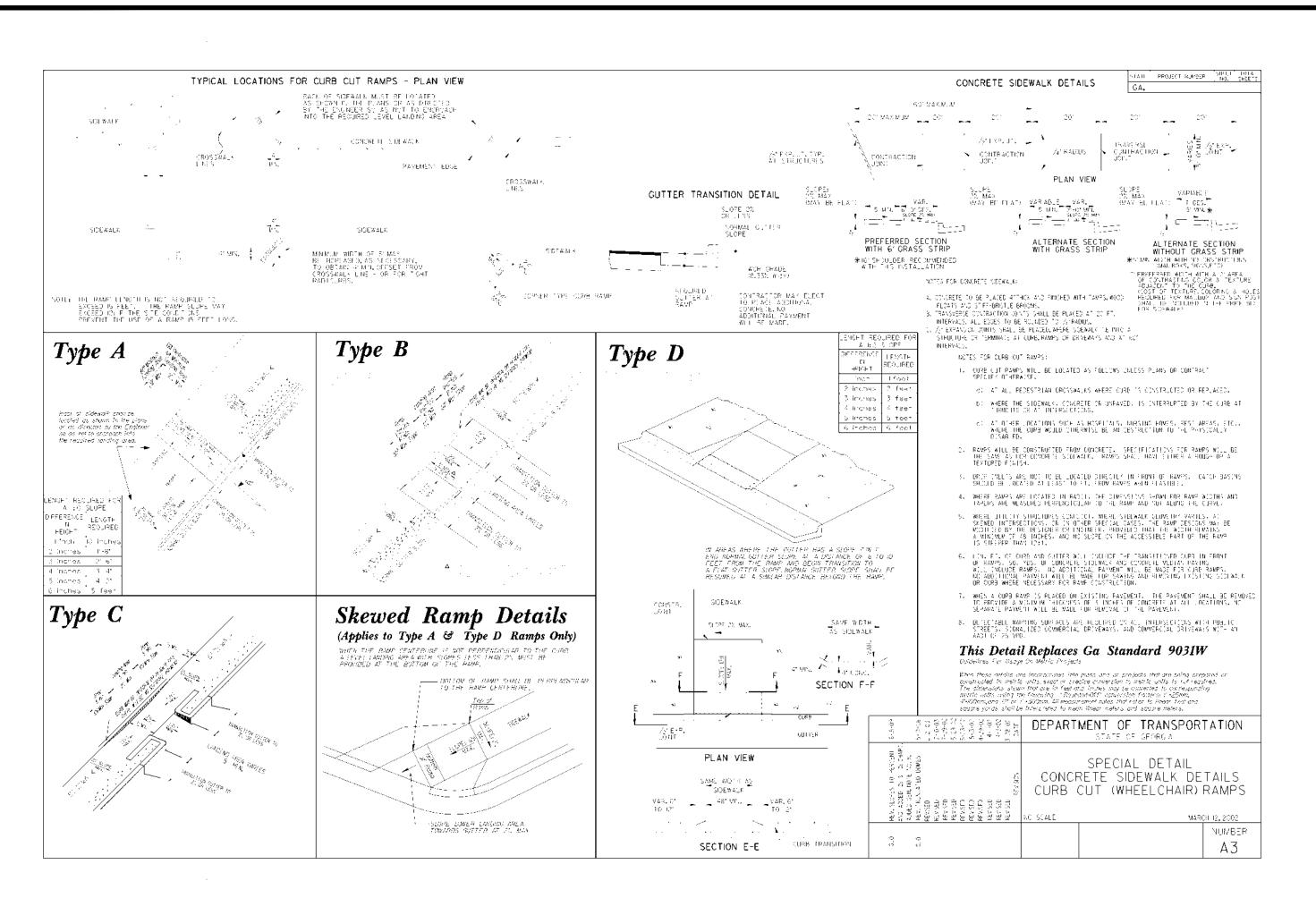
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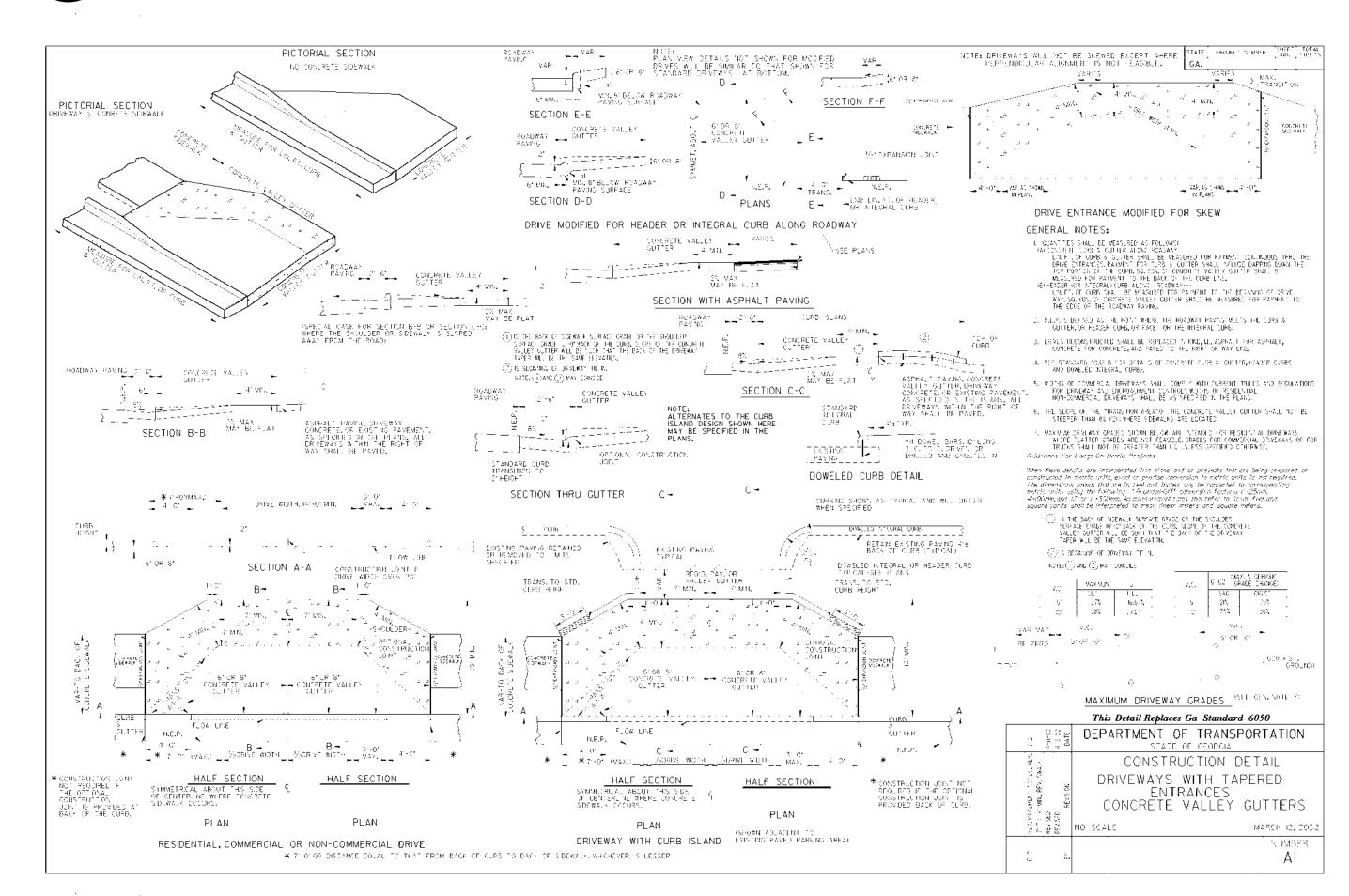
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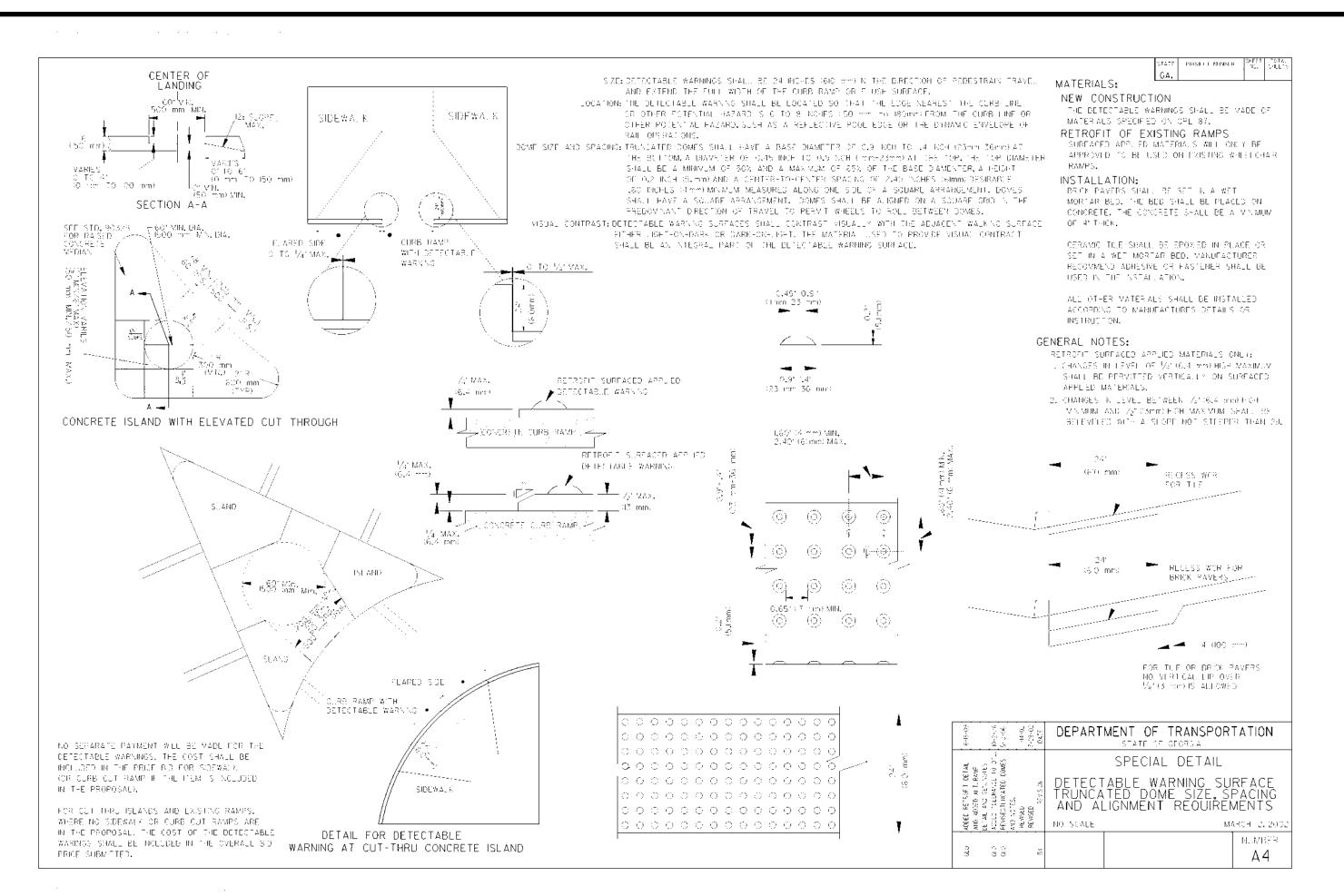
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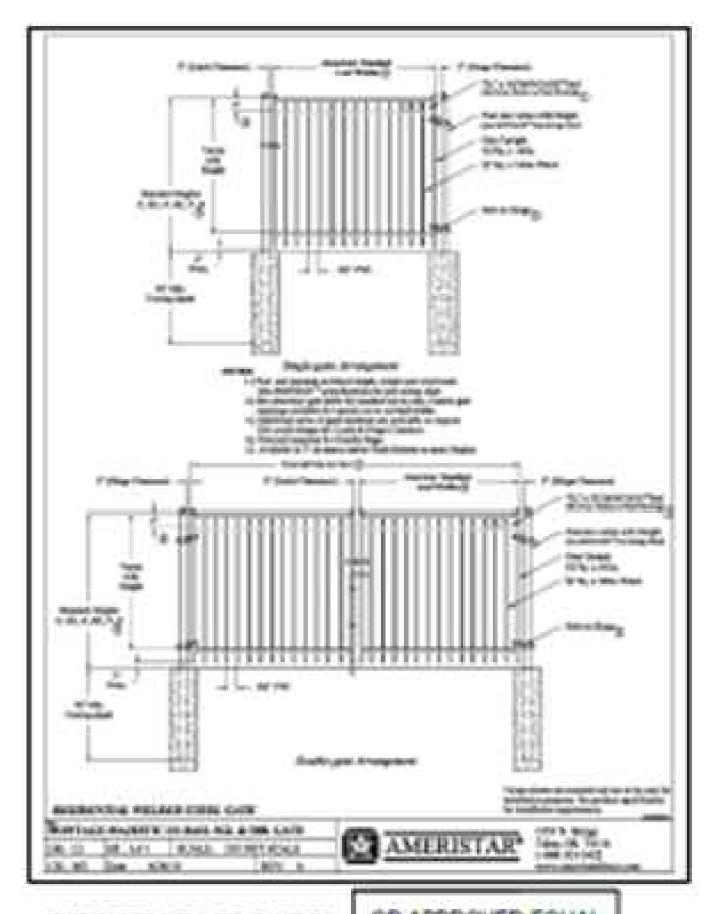


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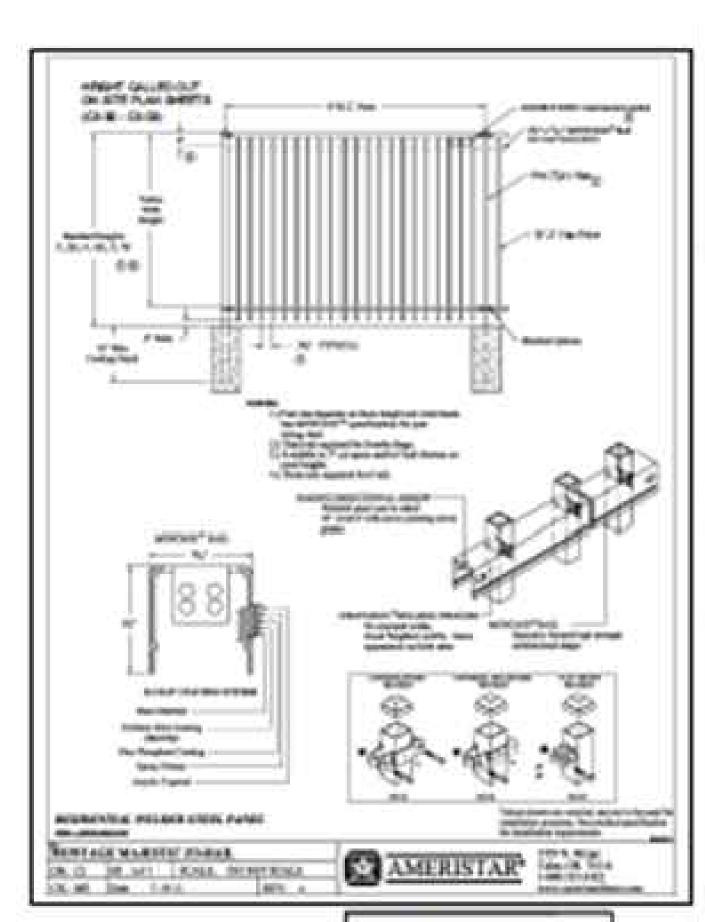




## DETECTABLE WARNING SURFACE



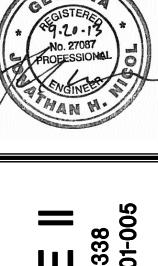




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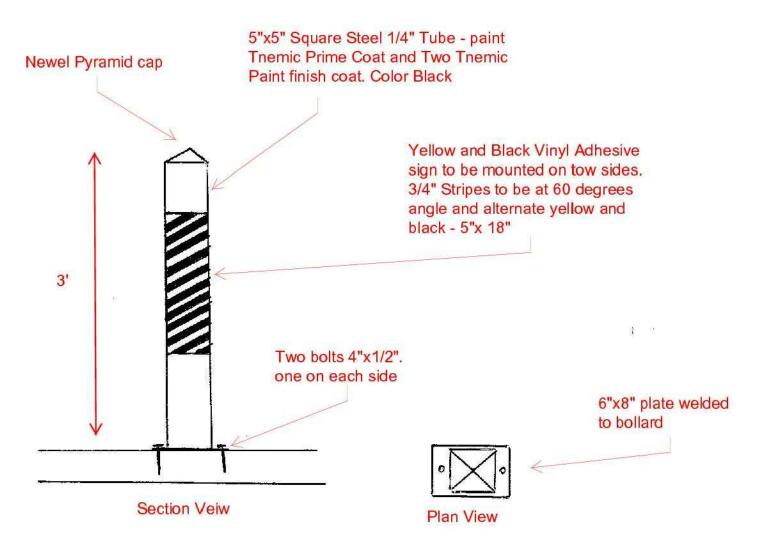
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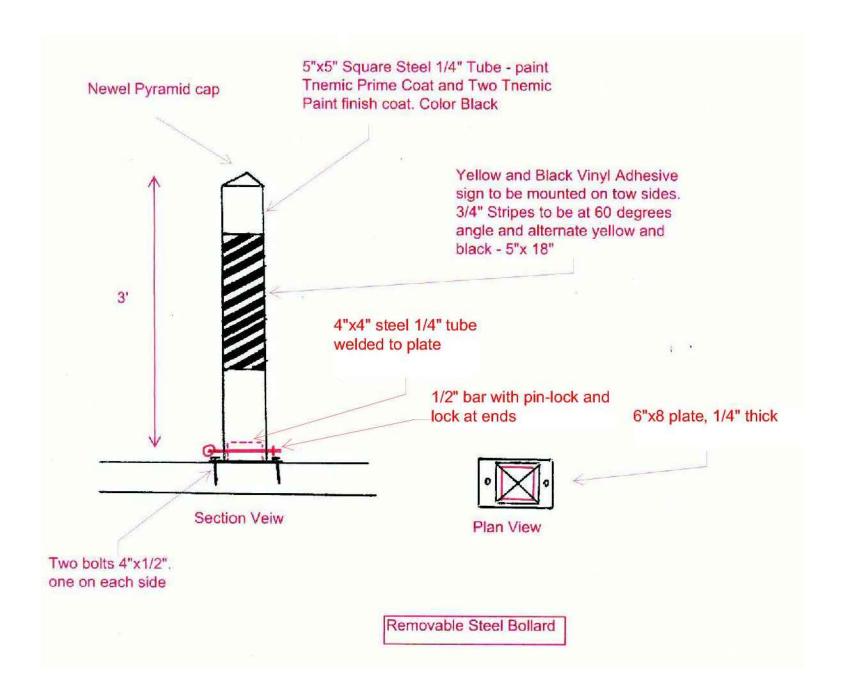
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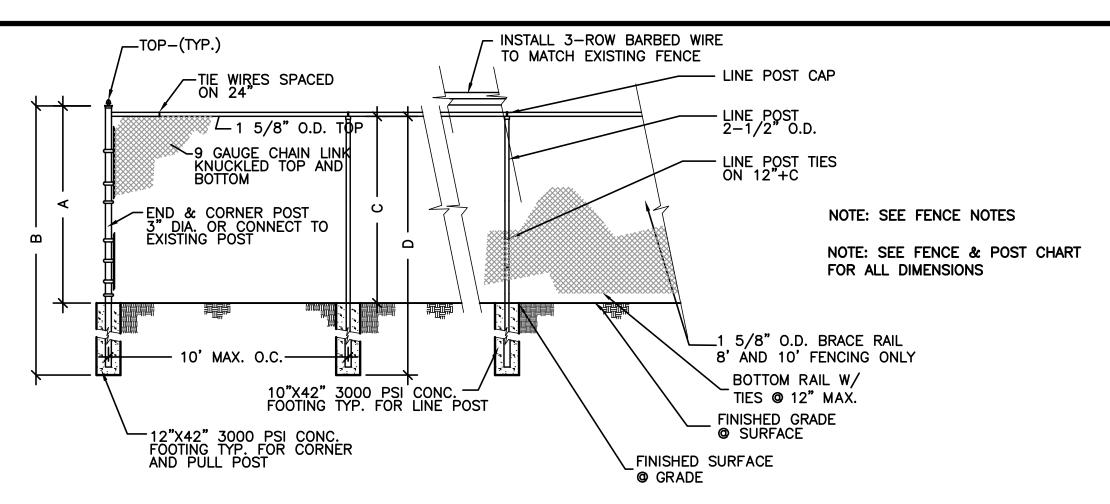
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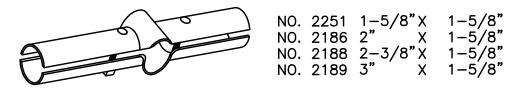
### Steel Bollard



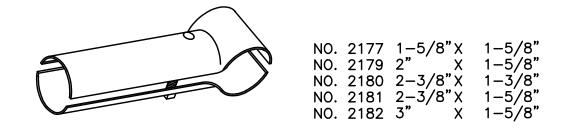




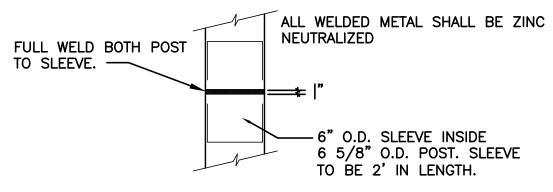
FENCE W/ BOTTOM RAIL NOT TO SCALE



BRACE RAIL \_ & END RAIL



RAIL CLAMP @ CROSSING



6-5/8" O.D. PIPE NOT TO SCALE

	LII	NE POST		
FENCE HEIGHT	А	В	C	D
3'-3"	3'-6"	6'-0"	3'-23/4'	5'-6"
3'-6"	3'-9"	6'-2"	3'-53/4	5'-6"
4'-0"	4'-3"	6'-8"	3'-113/4	6'-6"
5'-0"	5'-3"	7'-8"	4'-13/4	7'-6"
6'-0"	6'-05/ <b>'</b> 8	9'-1"	5'-87/8	8'-8"
7'-0"	7'-05/8	10'-1"	6'-87/8	9'-8"
8'-0"	8'-05/8	11'-1"	7'-87/8	10'-8"
9'-0"	9'-05/8	12'-1"	8'-87/8	11'-8"
10'-0"	10'-05/8	13'-1"	9'-87/8	12'-8"
12'-0"	12'-05/8	15'-1"	11'-87/8	14'-8"

FENCING & POST CHART NOT TO SCALE

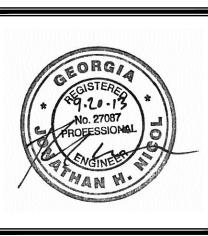
1. ALL POSTS AND RAILS SHALL BE LOCATED OUTSIDE THE PLAYING FIELDS W/FABRIC TO THE INSIDE.

- 2. ALL TERMINAL AND LINE POST 20'-0" OR TALLER SHALL BE 4" DIA. SCH. 40 STEEL UNLESS OTHERWISE NOTED
- 3. ALL RAILS SHALL BE 1-5/8"X1/4" ROLL FORMED STEEL OR EQUAL C TYPE RAIL POST.
  4. ALL POSTS SHALL BE EQUIPPED WITH EITHER LINE POST CAPS OR STANDARD CAPS TO KEEP MOISTURE OUT OF POST.
- 5. ALL FENCING SHALL BE KNUCKLED TOP AND BOTTOM.
- 6. SEE FENCING CHARTS FOR CORNER POST AND LINE POST REQUIREMENTS. 7. CHANGES IN REQUIRED PLANS DUE TO SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S
- REPRESENTATIVE FOR APPROVAL. 8. ALL FIELD ACCESS GATES TO BE SINGLE PANELS UNLESS NOTED OTHERWISE ON PLANS.
- 9. SOFT STEEL TIES. ( 9 GAUGE TO MATCH FENCE FABRIC COATING.) 10. MID-RAIL ON FENCING OVER 6'. 11. FENCING HT.:
- 4' AND UNDER 1 BAND PER FOOT. FENCING HT.: 5' AND ABOVE 1 BAND LESS THAN HT. OF FENCE. 10. ALL FENCE FABRIC, POSTS, RAILS, HARDWARE, ETC. TO BE GALVANIZED.



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 ROAD, BROOK I ULTI-USE TF 70 NORTH PEACHTREE F 1 LOTS 353 AND 354 - 1

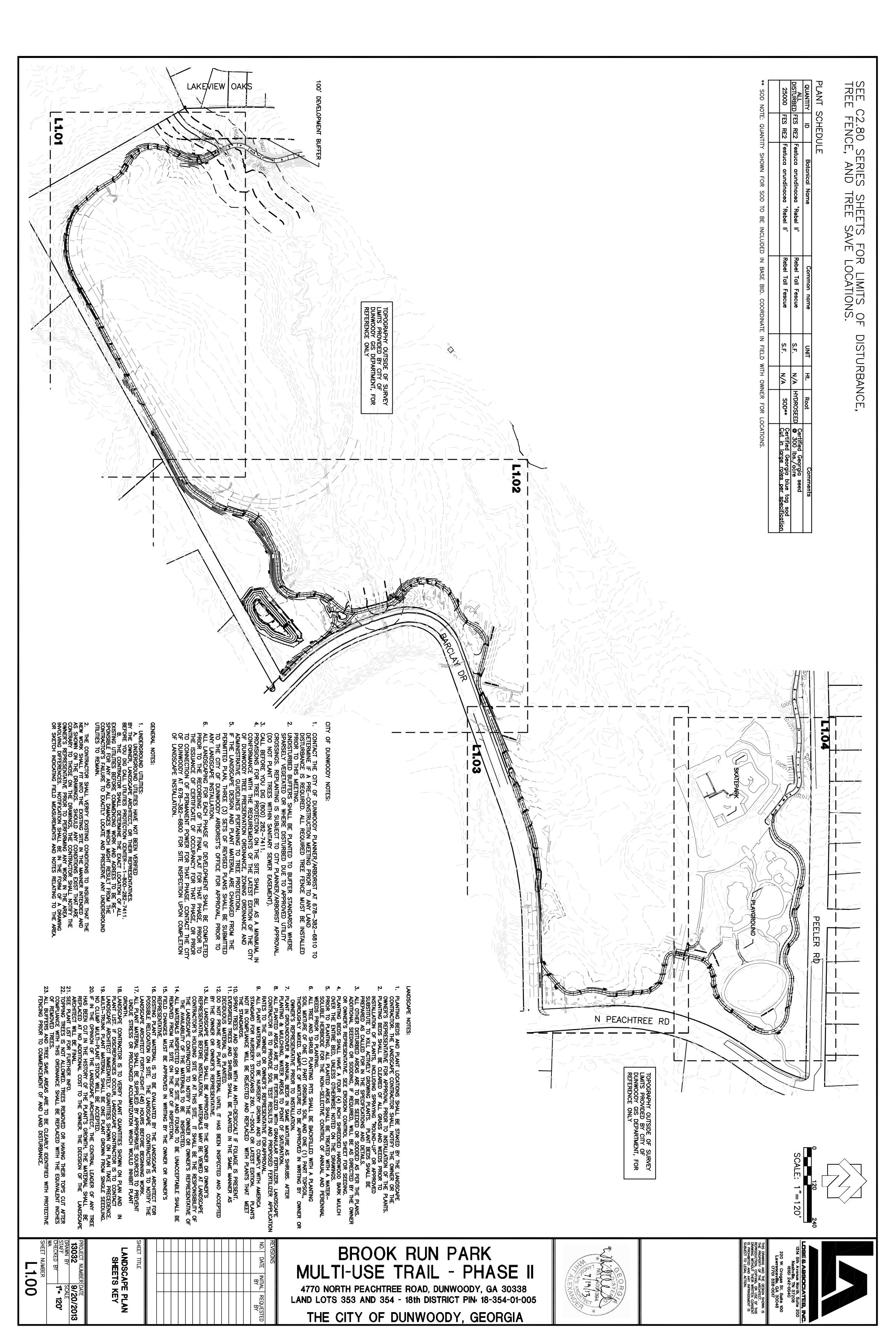
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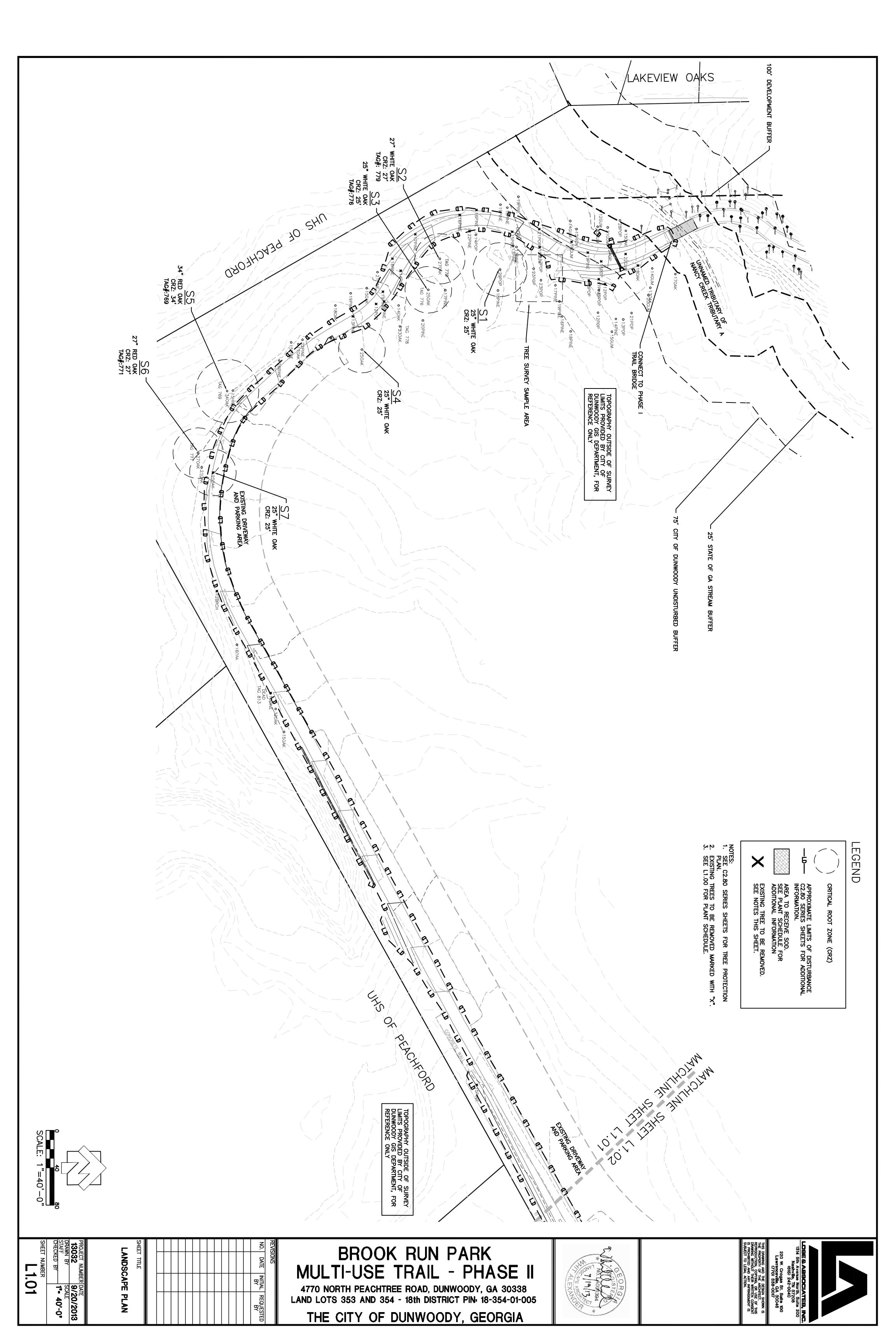
SHEET TITLE SITE DETAILS

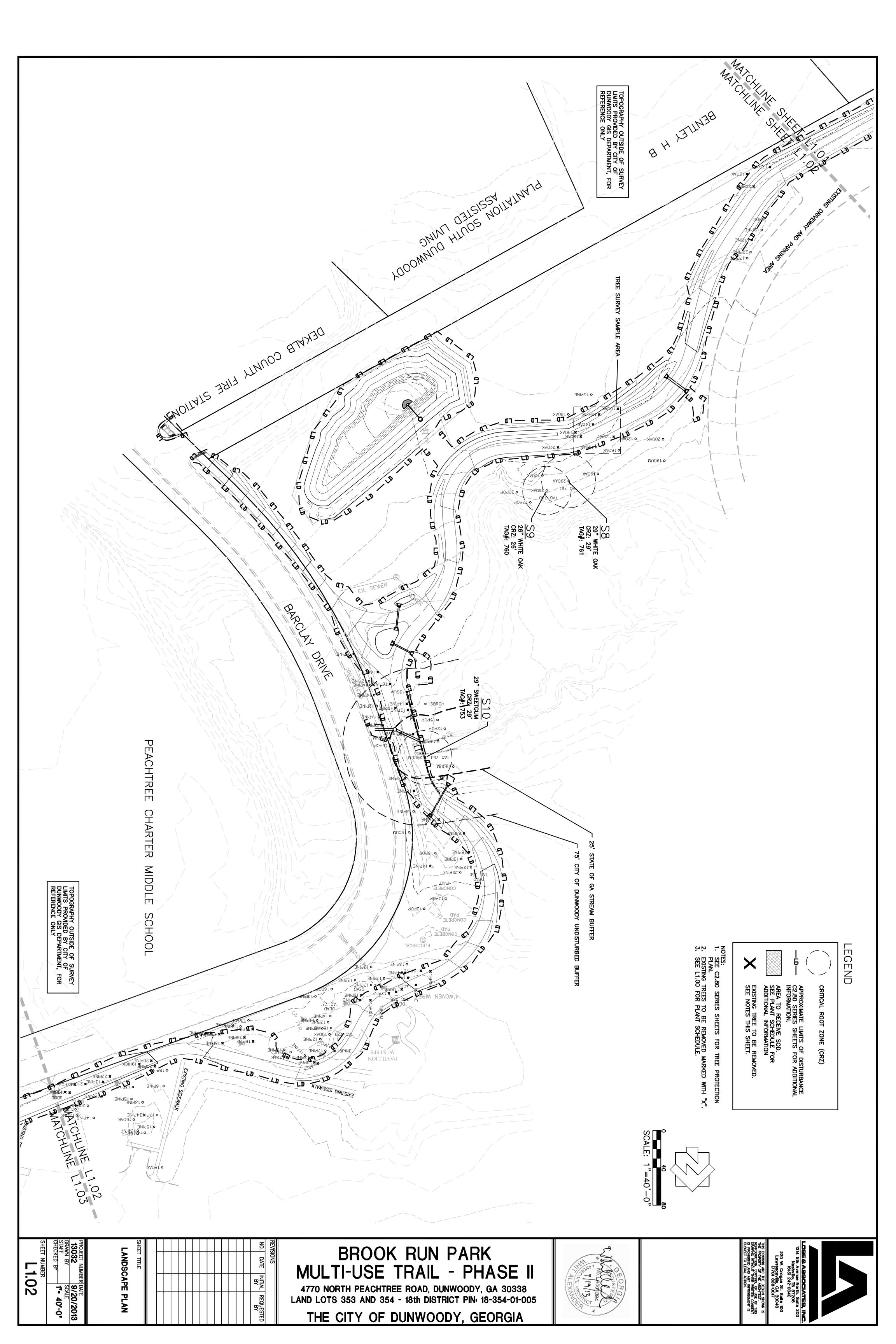
PROJECT NUMBER DATE 9/20/2013 13032 SCALE

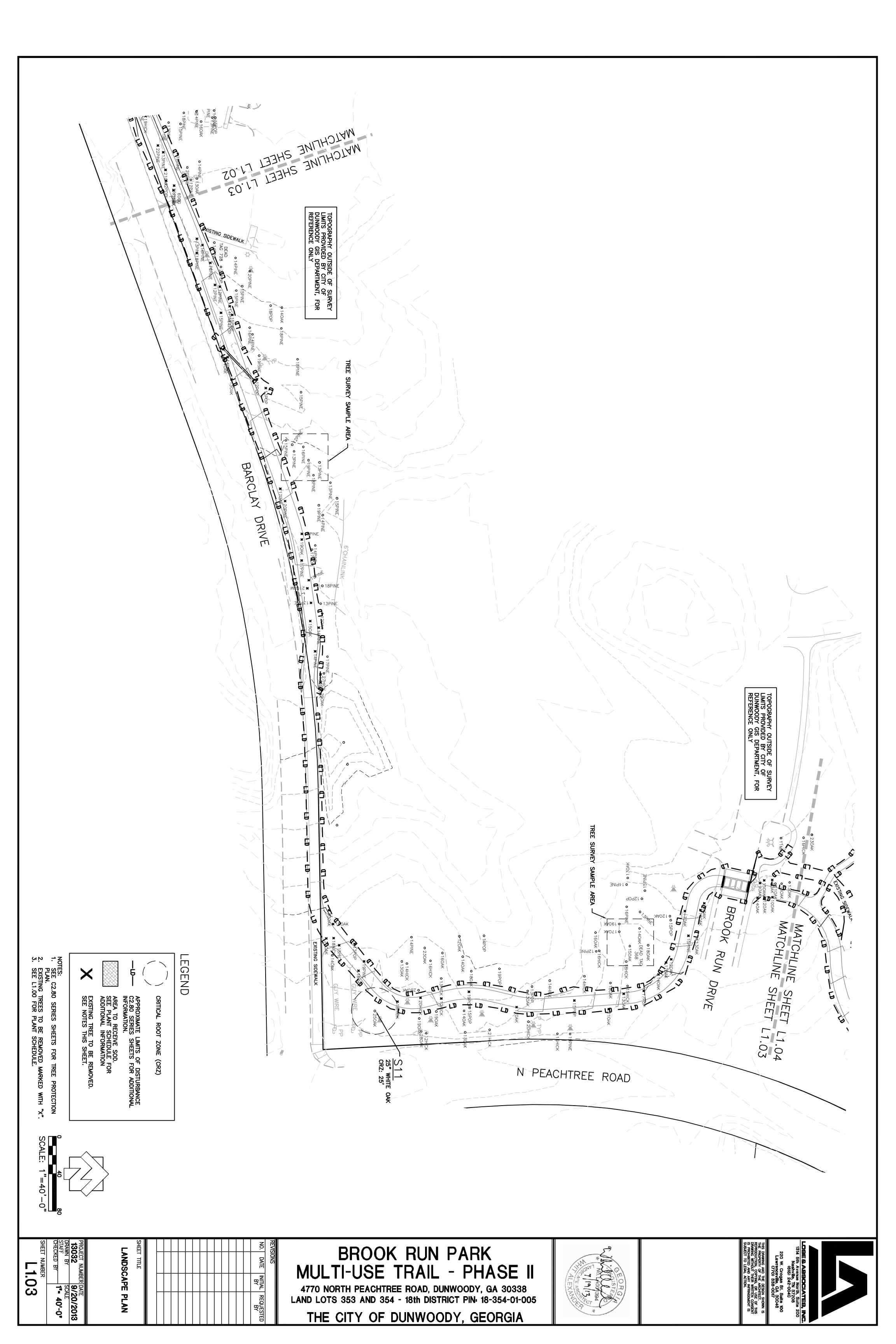
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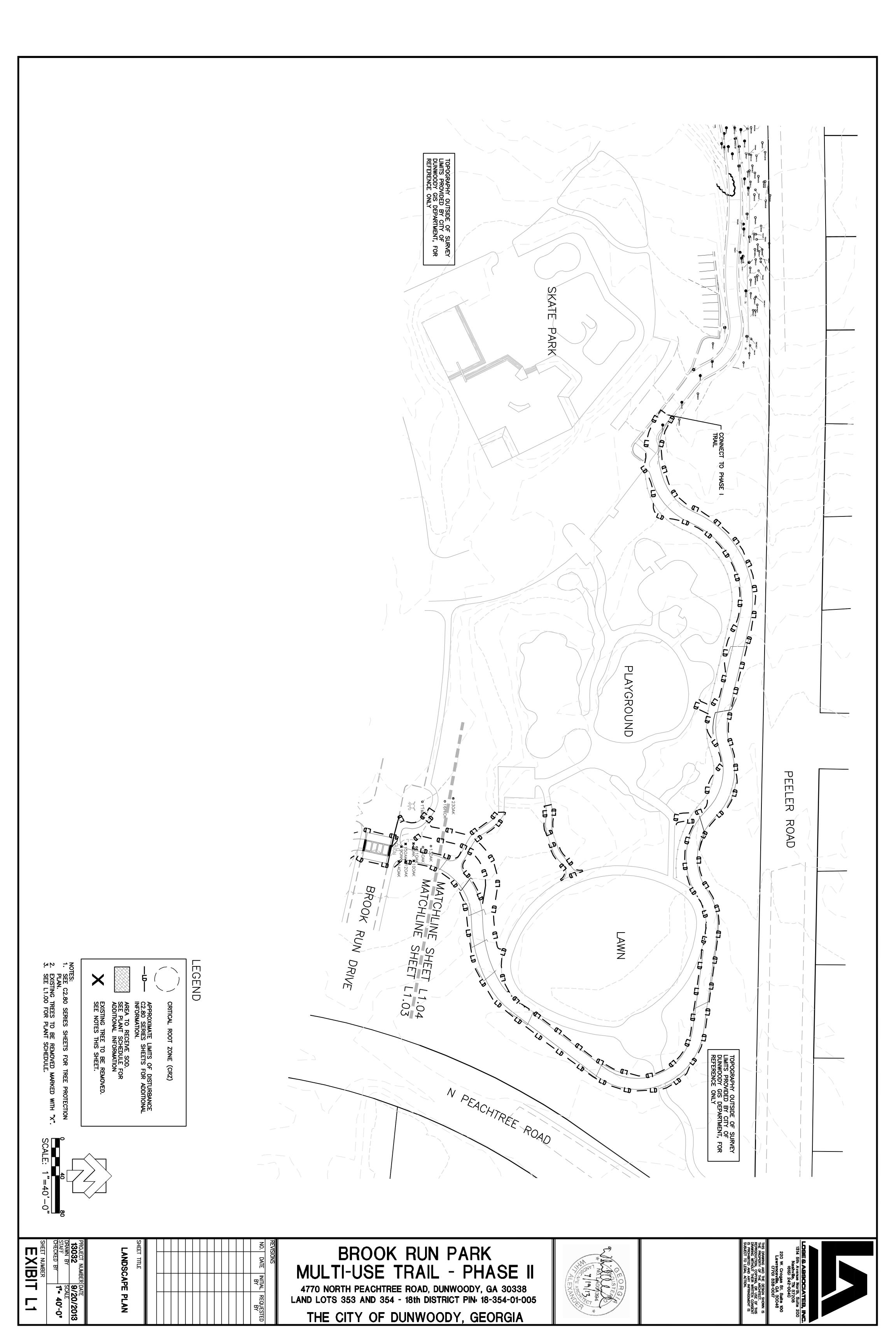
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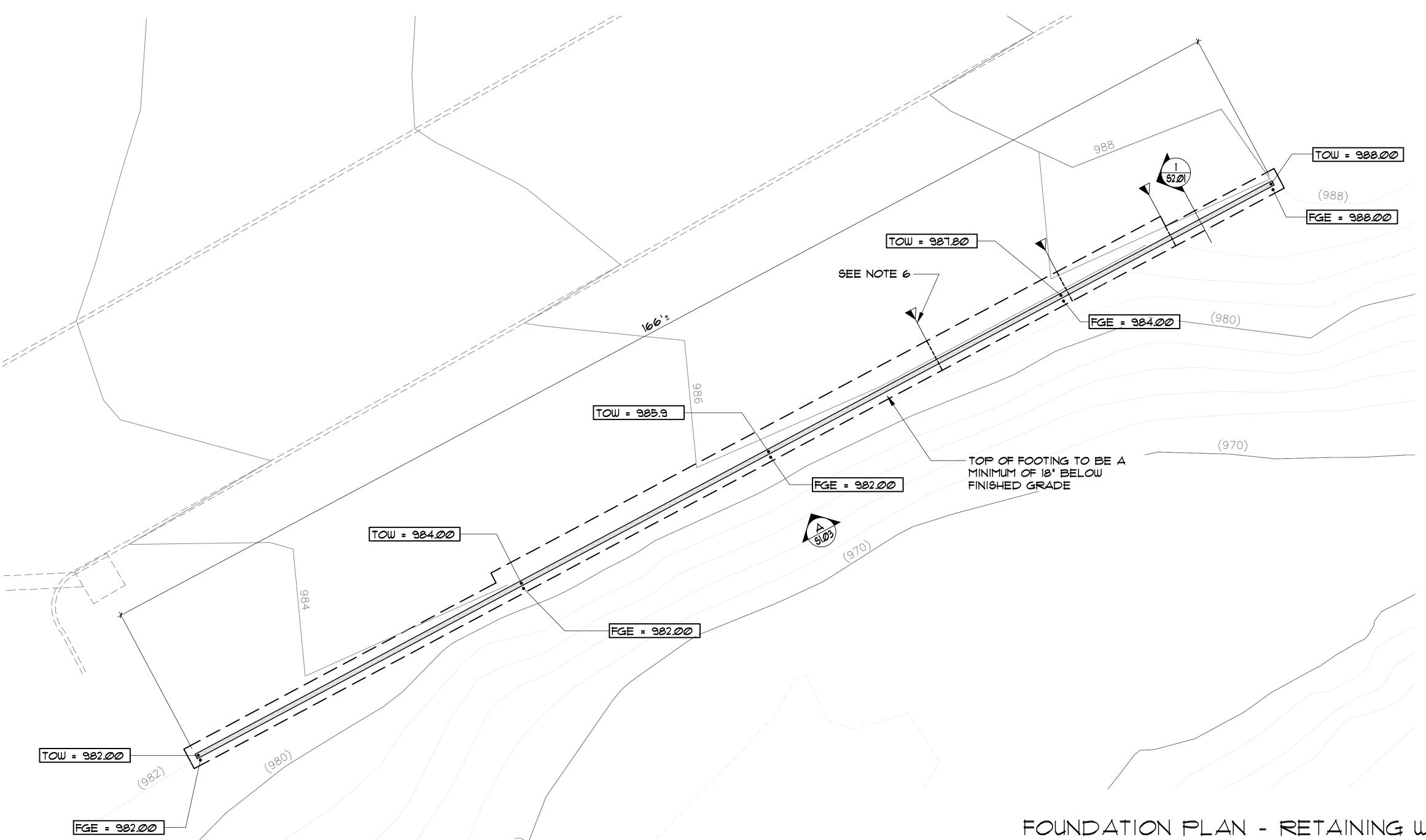






### NOTE REGARDING WALL FORMS:

ALL EXPOSED FACES OF CONCRETE RETAINING WALLS SHALL BE FORMED WITH WALL-TIES & FORMS INC 'ASHLAR STONE FORMS'. FORM INSTALLATION AND USE SHALL BE IN STRICT ACCORDACE WITH 'ASHLAR STONE FORMS' MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS



TOW = TOP OF WALL ELEVATION

FGE = APPROXIMATE FINISHED GRADE ELEVATION

### FOUNDATION PLAN - RETAINING WALL A

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

### NOTES:

- 1. SEE SHEET C2.01 FOR RETAINING WALL A LOCATION AND LENGTH. NOTE: LENGTH SHOWN ON THIS DRAWING IS APPROXIMATE. CIVIL DRAWINGS DIMENSIONS GOVERN OVER THIS DRAWING.
- 2. REFER TO CIVIL DRAWINGS FOR GRADE AND TOP OF WALL ELEVATIONS.
- TOP OF FOOTING ELEVATION SHALL BE MINIMUM OF 18" BELOW FINISHED GRADE,
- 4. CONTRACTOR SHALL COORDINATE EXISTING CONDITIONS AND VERIFY EXISTING GRADE ELEVATIONS PRIOR TO START OF CONSTRUCTION.
- 5. REFER TO GEOTECHNICAL REPORT PREPARED BY GEOHYDRO ENGINEERS (PROJECT NO. 130399.00), DATED AUGUST 15, 2013 FOR SUBGRADE PREPARATION RECOMMENDATIONS PRIOR TO START OF CONSTRUCTION.
- 6. DENOTES APPROXIMATE FOOTING STEP LOCATION. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH GRADING PLANS. SEE 11/52.01 FOR DETAIL
- T. SEE 12/S2.01 FOR WALL CONTROL JOINT DETAIL

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SHEET TITLE RETAINING WALL A PLAN

PROJECT NUMBER DATE
13032 9/20/2013
DRAWN BY SCALE CHECKED BY

SHEET NUMBER

S<sub>1.01</sub>

### NOTE REGARDING WALL FORMS: ALL EXPOSED FACES OF CONCRETE RETAINING WALLS SHALL BE FORMED WITH WALL-TIES & FORMS INC 'ASHLAR STONE FORMS'. FORM INSTALLATION AND USE SHALL BE IN STRICT ACCORDACE WITH

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EMC Project No. 13216



# NO. DATE INITIAL REQUESTED BY

SHEET TITLE RETAINING WALL B PLAN

PROJECT NUMBER DATE 9/20/2013 DRAWN BY SCALE CHECKED BY

SHEET NUMBER S1.02

FOUNDATION PLAN - RETAINING WALL B SCALE" /2" = 1'-0"

- SEE SHEET C2.02 FOR RETAINING WALL A LOCATION AND LENGTH. NOTE: LENGTHS SHOWN ON THIS DRAWING ARE APPROXIMATE. CIVIL DRAWINGS' DIMENSIONS GOVERN OVER THIS DRAWING.
- REFER TO CIVIL DRAWINGS FOR GRADE AND TOP OF WALL ELEVATIONS.
- TOP OF FOOTING ELEVATION SHALL BE MINIMUM OF 12" BELOW FINISHED GRADE. 4. CONTRACTOR SHALL COORDINATE EXISTING CONDITIONS AND VERIFY EXISTING GRADE ELEVATIONS PRIOR TO START OF CONSTRUCTION.
- 5. REFER TO GEOTECHNICAL REPORT PREPARED BY GEOHYDRO ENGINEERS (PROJECT NO. 130399.00), DATED AUGUST 15, 2013 FOR SUBGRADE PREPARATION RECOMMENDATIONS PRIOR TO START OF CONSTRUCTION.
- 6. DENOTES APPROXIMATE FOOTING STEP LOCATION. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH GRADING PLANS. SEE 11/52.01 FOR DETAIL
- 7. SEE 12/S2.01 FOR WALL CONTROL JOINT DETAIL

TOW = TOP OF WALL ELEVATION FGE = APPROXIMATE FINISHED GRADE ELEVATION

TOW = 983.60

TOW = 982.60

TOW = 981.90

CONCRETE PILASTERS TO BE

TOW = 981.80

TOW = 981.70

TOW = 981.30

LOCATED EA SIDE OF 54" PIPE

FGE = 983.60

FGE = 975.00

FGE = 974.00

FGE = 968.00

EGE = 968.00

FGE = 974.00

SEE NOTE 6-

FGE = 980.00

FGE = 966.67

### NOTE REGARDING WALL FORMS:

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TOW = TOP OF WALL ELEVATION

FGE = APPROXIMATE FINISHED GRADE ELEVATION

### ELEVATION - RETAINING WALL B

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

### NOTES:

- 1. SEE SHEET C2.02 FOR RETAINING WALL B LOCATION, LENGTH, AND TOP OF WALL ELEVATIONS
- 2. REFER TO CIVIL DRAWINGS FOR GRADE ELEVATIONS.
- 3. TOP OF FOOTING ELEVATION SHALL BE MINIMUM OF 18" BELOW FINISHED GRADE,
- 4. CONTRACTOR SHALL COORDINATE EXISTING CONDITIONS AND VERIFY
- EXISTING GRADE ELEVATIONS PRIOR TO START OF CONSTRUCTION. 5. REFER TO GEOTECHNICAL REPORT PREPARED BY GEOHYDRO ENGINEERS (PROJECT NO. 130399.00), DATED AUGUST 15, 2013 FOR SUBGRADE PREPARATION RECOMMENDATIONS PRIOR TO START OF CONSTRUCTION.
- 6. DENOTES APPROXIMATE FOOTING STEP LOCATION. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH GRADING PLANS. SEE 11/52.01 FOR DETAIL
- 7. SEE S12/S2.01 FOR WALL CONTROL JOINTS

165'-8"± 52.01 TOW = 982.00 TOW = 987.80 TOW = 984.00 TOW = 985.9 SEE 7/S2.02 TOW = 988.00 APPROX FINISHED FOR HANDRAIL GRADE, LOW SIDE CONSTRUCTION 990.00 ----\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ 16'± 2Ø'± 114'± - SEE NOTE X SEE NOTE X SEE NOTE X 970.00 ----

TOW = TOP OF WALL ELEVATION

FGE = APPROXIMATE FINISHED GRADE ELEVATION

### ELEVATION - RETAINING WALL A

SCALE" %" = 1'-0"

### NOTES:

- 1. SEE SHEET C2.01 FOR RETAINING WALL A LOCATION, LENGTH, AND TOP OF WALL ELEVATIONS
- 2. REFER TO CIVIL DRAWINGS FOR GRADE ELEVATIONS.
- 3. TOP OF FOOTING ELEVATION SHALL BE MINIMUM OF 18" BELOW FINISHED
- 4. CONTRACTOR SHALL COORDINATE EXISTING CONDITIONS AND VERIFY
- EXISTING GRADE ELEVATIONS PRIOR TO START OF CONSTRUCTION. 5. REFER TO GEOTECHNICAL REPORT PREPARED BY GEOHYDRO ENGINEERS
- (PROJECT NO. 130399.00), DATED AUGUST 15, 2013 FOR SUBGRADE PREPARATION RECOMMENDATIONS PRIOR TO START OF CONSTRUCTION. 6. DENOTES APPROXIMATE FOOTING STEP LOCATION. CONTRACTOR
- SHALL COORDINATE ACTUAL LOCATIONS WITH GRADING PLANS. SEE 11/52.01 FOR DETAIL
- 7. SEE S12/S2.01 FOR WALL CONTROL JOINTS

### NOTE REGARDING WALL FORMS:

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EMC Project No. 13216



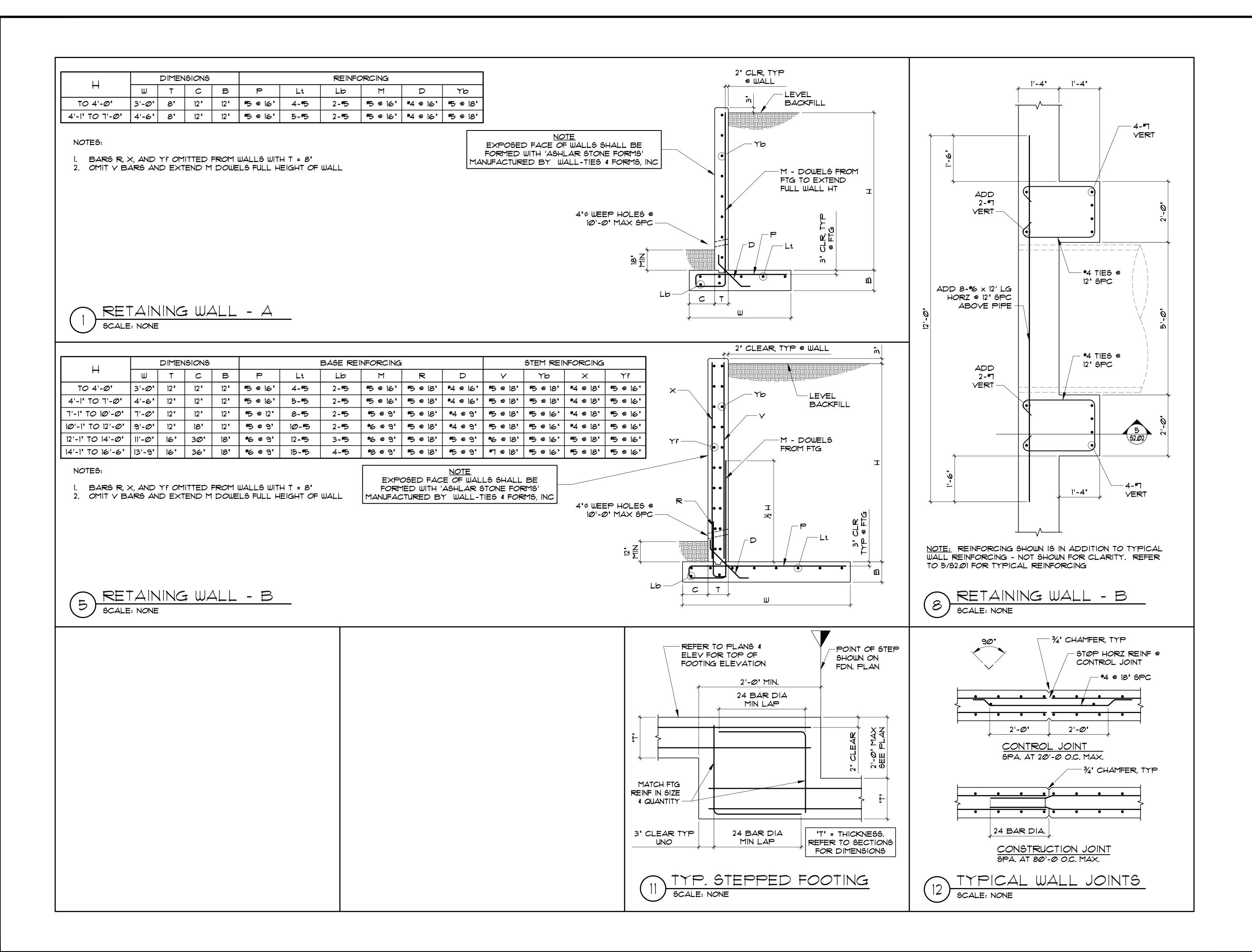
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NO. DATE INITIAL REQUESTE BY

SHEET TITLE RETAINING WALLS A & B ELEVATIONS

9/20/2013 DRAWN BY SCALE CHECKED BY

SHEET NUMBER





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RAI RAI BROOK F MULTI-USE TF 4770 NORTH PEACHTREE R LAND LOTS 353 AND 354 - 18

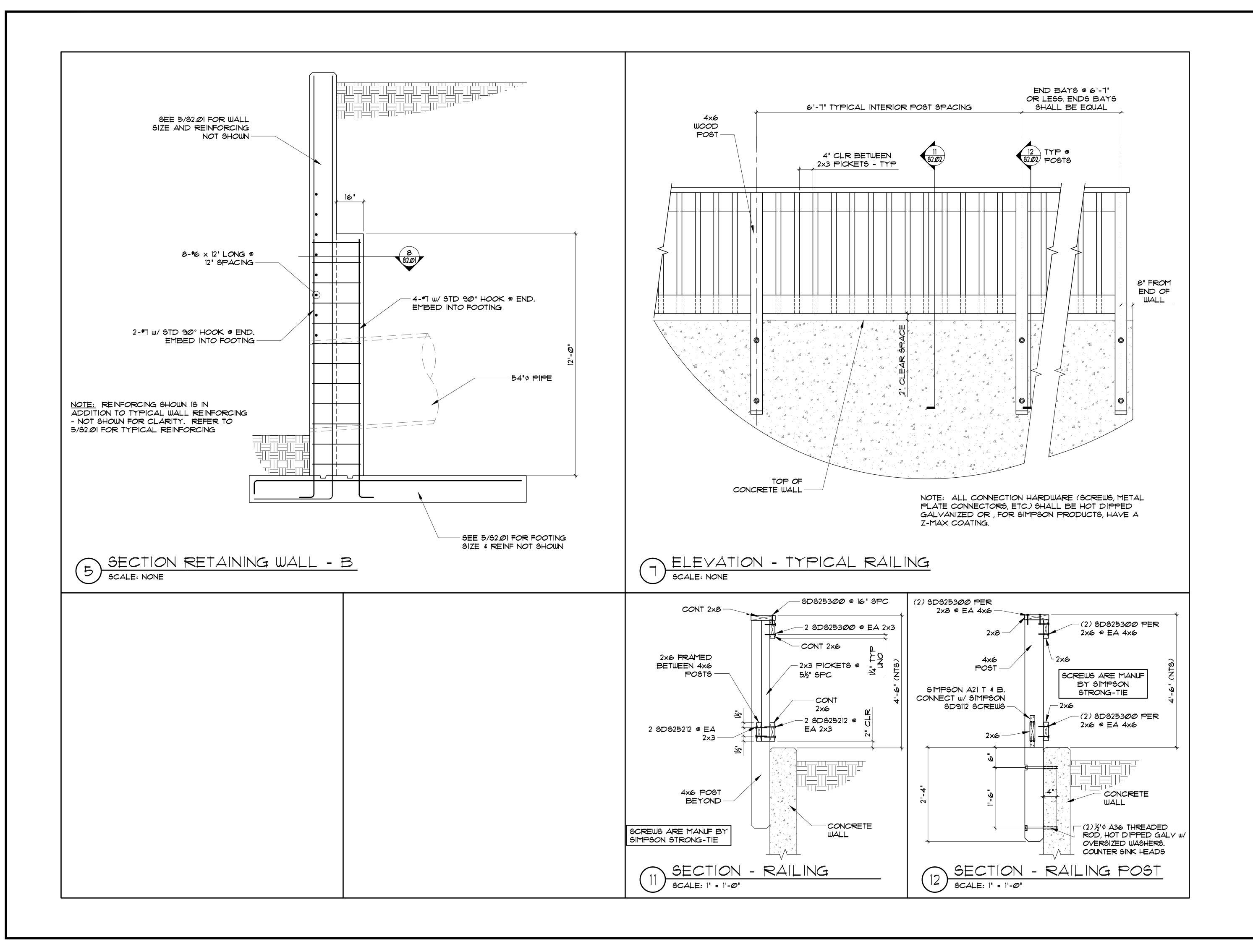
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SHEET TITLE SECTIONS AND **DETAILS** 

PROJECT NUMBER DATE 9/20/2013 DRAWN BY SCALE CHECKED BY

SHEET NUMBER S2.01





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EMC Project No. 13216



ARK RAI RAI BROOK F MULTI-USE TF 4770 NORTH PEACHTREE F LAND LOTS 353 AND 354 - 18

NO. DATE INITIAL REQUESTED BY

SHEET TITLE SECTIONS AND **DETAILS** 

PROJECT NUMBER DATE 9/20/2013 SCALE CHECKED BY

SHEET NUMBER S2.02

### STRUCTURAL SPECIAL INSPECTION PLAN

### GENERAL

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

### CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

- 1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STRUCTURAL QUALITY ASSURANCE PLAN.
- 2. ACKNOWLEDGEMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- 3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
- 4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR WILL BE HIRED BY THE OWNER, BUT CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFORMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED AND RECONSTRUCTED.

CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

- 1. PROVIDE COPY OF CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
- 2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
- 3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
- 4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES
- 5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR'S EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.
- 6. PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

### SPECIAL INSPECTOR'S RESPONSIBILITIES:

THE SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER LICENSED IN AND PRACTICING IN THE STATE OF GEORGIA, OR IS PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA AND HAS A THOROUGH UNDERSTANDING OF THE SPECIAL INSPECTION REQUIREMENTS OF THE 2006 IBC WITH 2007, 2009, AND 2010 GEORGIA STATE AMENDMENTS.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. PERIODIC REPORTS SHALL BE PROVIDED AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT, PROVIDE THREE (3) COPIES OF THIS REPORT + TWO TO THE ARCHITECT AND ONE TO THE STRUCTURAL ENGINEER OF RECORD.

THE	SPECIAL	INSPECTOR FO	OR THIS	PROJECT IS	AS FOLLOWS:

NAME	 
COMPANY	 
ADDRESS	
TELEPHONE	

### SOILS AND FOUNDATIONS

### SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. VERIFY STRUCTURAL FILL COMPLIES WITH SPECIFICATIONS AND THE
- PROJECT GEOTECHNICAL REPORT. 2. OBSERVE PROOFROLLING.
- 3. PERFORM FIELD DENSITY TEST TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED
- 4. VERIFY FOUNDATION BEARING CAPACITY.

### CAST-IN-PLACE CONCRETE:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT MANUFACTURER'S DATA FOR REINFORCING STEEL
- 2. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318, CHAPTER 5. SUBMIT THREE COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE
- A. TYPE AND QUANTITIES OF MATERIALS
- B. SLUMP
- C. AIR CONTENT D. FRESH UNIT WEIGHT
- E. AGGREGATES SIEVE ANALYSIS
- F. DESIGN COMPRESSIVE STRENGTH G. LOCATION OF PLACEMENT IN STRUCTURE
- H. METHOD OF PLACEMENT
- . METHOD OF CURING
- J. SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS
- 3. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
- 4. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

### SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. VERIFY GRADE, QUANTITY, LOCATION, AND THE PLACEMENT OF REINFORCING STEEL PRIOR TO CONCRETE PLACEMENT.
- 2. EXAMINE CONCRETE IN TRUCK TO VERIFY THAT CONCRETE APPEARS PROPERLY
- 3. PERFORM A SLUMP TEST AS DEEMED NECESSARY FOR EACH CONCRETE LOAD. RECORD IF WATER OR ADMIXTURES ARE ADDED TO THE CONCRETE AT THE JOB SITE. PERFORM ADDITIONAL SLUMP TESTS AFTER JOB SITE ADJUSTMENTS.
- 4. MOLD FIVE SPECIMENS PER SET FOR COMPRESSIVE STRENGTH TESTING + ONE SET FOR EACH 15 CUBIC YARDS OF EACH MIX DESIGN PLACED IN ANY ONE DAY. FOR EACH SET MOLDED, RECORD:
- A. SLUMP
- B. AIR CONTENT
- C. UNIT WEIGHT
- D. TEMPERATURE, AMBIENT, AND CONCRETE E. LOCATION OF PLACEMENT
- F. ANY PERTINENT INFORMATION, SUCH AS ADDITION OF WATER, ADDITION
- OF ADMIXTURES, ETC.

PERFORM ONE 1-DAY AND TWO 28-DAY COMPRESSIVE STRENGTH TESTS. (USE TWO AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTHS DO NOT APPEAR ADEQUATE.)

5. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT NAME OF CONCRETE TESTING AGENCY, CONCRETE DESIGN COMPRESSIVE STRENGTH, LOCATION OF CONCRETE PLACEMENT IN STRUCTURE, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK.

### WOOD CONSTRUCTION:

### CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT CERTIFICATION THAT THE MATERIALS USED (LUMBER, CONNECTORS, SCREWS, BOLTS, WASHERS, NUTS, ETC.) MEET SPECIFICATIONS.

### SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

1. VISUAL INSPECTION OF WOOD FRAMING TO VERIFY COMPLIANCE WITH DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS INCLUDING MEMBER SIZES, LOCATIONS, BRACING, CONNECTION DETAILS, SCREW AND BOLT SIZES, SPACING, ETC.

### STRUCTURAL GENERAL NOTES

### DESIGN AND CODE INFORMATION

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE WITH 2007, 2009 AND 2010 GEORGIA STATE AMENDMENTS.
- 2. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ENGINEER OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH CIVIL DRAWINGS.
- 3. CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- 4. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 5. FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC., AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

### 6. WIND DATA: BASIC WIND SPEED (3 SEC. GUST): 90 MPH OCCUPANCY CATEGORY (PER ASCE 7-05): II IMPORTANCE FACTOR, IW: 1.0 EXPOSURE CATEGORY:

### 7. SEISMIC DATA:

```
IMPORTANCE FACTOR,
SEISMIC USE GROUP:
OCCUPANCY CATEGORY (PER ASCE 1-05):
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
    Ss = \emptyset.224
    S_1 = \emptyset.088
SITE CLASS:
SPECTRAL RESPONSE COEFFICIENTS
    S_{DS} = \emptyset.26\emptyset
    S_{D1} = \emptyset.142
DESIGN CATEGORY:
RESPONSE COEFFICIENT, Cs = Sps/R
```

8. SPECIAL LOADS: HANDRAILS

200 LB CONCENTRATED LOAD IN ANY DIRECTION

### SPECIAL INSPECTIONS AND TESTING

1. THE OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM THE FOLLOWING ON SITE INSPECTIONS AND TESTING: FOUNDATION SOILS: PER TABLE 1704.7 CONCRETE: PER TABLE 1704.4

### STRUCTURAL OBSERVATIONS

1. THE ENGINEER OF RECORD HAS NOT BEEN EMPLOYED TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

### FOUNDATION NOTES

- THE FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL REPORT PREPARTED BY GEO-HYDRO ENGINEERS, DATED AUGUST 15, 2013 (PROJECT NO. 130399.00)
- 2. CONTRACTOR SHALL THOROUGHLY READ AND UNDERSTAND THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT PRIOR TO START OF CONSTRUCTION. THE REPORT REQUIRES REMEDIAL WORK TO BE DONE TO SOME AREAS OF THE SUBGRADE PRIOR TO CONSTRUCTION OF THE WALLS' FOUNDATIONS.
- 3. FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2500 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED CONSTRUCTION USED.
- 4. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE FOUNDATION LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-O" MINIMUM BELOW FINISHED GRADE.
- WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
- 6. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN I VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

### REINFORCED CONCRETE

- THE DESIGN OF ALL CONCRETE WORK SHALL CONFORM TO ACI 318-09 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- 2. REINFORCING STEEL SHALL BE DEFORMED BARS MEETING THE REQUIREMENTS OF ASTM A615, GRADE 60.
- 3. THE 28-DAY COMPRESSIVE STRENGTH OF ALL CAST-IN-PLACE CONCRETE

3.1. FOOTINGS - 3000 PSI 3.2. WALLS - 4000 PSI

- 3.3. SITE CONCRETE SEE CIVIL DRAWINGS 4. LAP SPLICES FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI
- 318-09, UNLESS NOTED OTHERWISE. 5. CLEAR CONCRETE COVER FOR REINFORCING STEEL SHALL BE:

5.1. FOOTINGS CAST AGAINST SOIL OR ROCK - 3" 5.2. FOOTING CAST AGAINST FORMS 5.3. WALLS

- 6. LONGITUDINAL REINFORCING IN FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS.
- J. MECHANICAL VIBRATORS SHALL BE USED TO VIBRATE ALL CONCRETE
- 8. CHAMFER EXPOSED CORNERS OF WALLS 3/4".
- 9. EXPOSED FACES OF WALLS SHALL BE FORMED WITH 'ASHLAR STONE FORMS' AS MANUFACTURED BY WALL-TIES & FORMS, INC.
- 10. CONCRETE SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS. A COPY OF ALL CONCRETE COMPRESSIVE STRENGTH TESTS REPORTS SHALL BE KEPT AT THE JOB SITE AT ALL TIMES FOR REVIEW BY THE INSPECTOR.

### LUMBER FRAMING

- 1. ALL FRAMING MEMBERS SHALL BE #1 SOUTHERN YELLOW PINE, 19% MOISTURE CONTENT UNLESS OTHERWISE NOTED.
- 2. ALL FRAMING MEMBERS SHALL BE PRESSURE TREATED, RATED FOR GROUND
- 3. ALL METAL CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE, INC, OR EQUIVALENT.
- 4. ALL SCREWS USED IN WOOD CONNECTIONS SHALL BE 'SDS' SCREWS AS MANUFACTURED BY SIMPSON STRONG-TIE.
- 5. ALL BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A307 OR F1554.
- 6. ALL METAL CONNECTORS, SCREWS, BOLTS, NUTS, WASHERS, ETC., SHALL BE HOT DIPPED GALVANIZED. ALL SIMPSON PRODUCTS SHALL BE EITHER HOT DIPPED GALVANIZED OR HAVE A Z-MAX COATING.

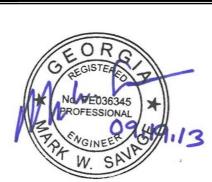
LOSE&ASSOCIATES. INC 1314 5th Avenue North, Suite 200 Nashville, TN 37208 (615) 242-0040 220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017

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ERAC STRUCTURAL ENGINEERS, P.C.

EMC Project No. 13216

Nashville, Tennessee 37204 (615) 781-8199 (615) 781-4088 (fax)



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SHEET TITLE STRUCTURAL GENERAL NOTES / SPECIAL INSPECTION PLAN

PROJECT NUMBER DATE 13032 9/20/2013 DRAWN BY CHECKED BY

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