DUNWOODY MULTI-USE TRAIL PHASE III

CONSTRUCTION PLANS PREPARED FOR: THE CITY OF DUNWOODY, GEORGIA



CERTIFICATION#14361

FLOOD INSURANCE RATE MAP

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

 NUMBER
 PANEL
 SUFFIX

 130066
 0016
 J

 130065
 0016
 J

 130069
 0016
 J

 130679
 0016
 J

MAP NUMBER 13089C0016J

MAP REVISED MAY 16, 2013

PANEL 16 OF 201

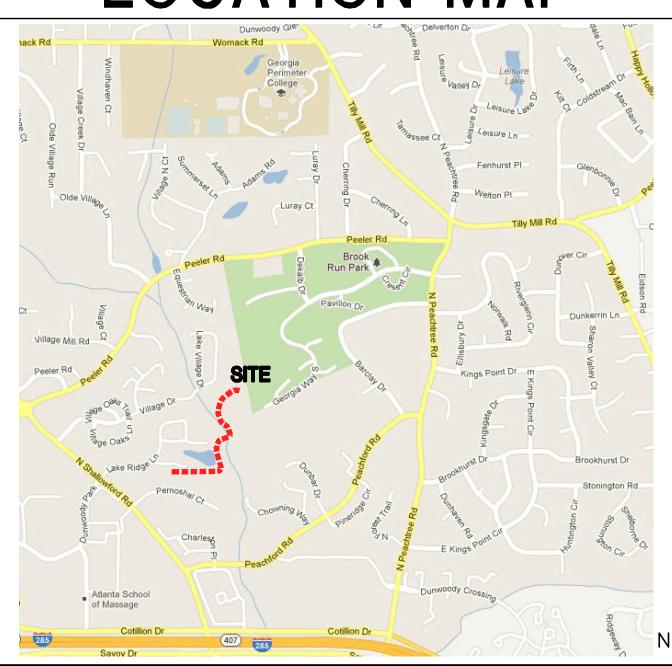
ISSUED FOR BID 02/25/2015

COVER SHEET

12185-2 11/10/2014

SHEET NUMBER C0.00

LOCATION MAP



SITE INFORMATION

SITE ADDRESS:

4770 NORTH PEACHTREE ROAD, DUNWOODY, GA 30338

PIN: 18-354-01-005, 18-344-08-001, 18-344-01-001, 18-344-01-001, 18-344-01-010, AND 18-344-01-003

EXISTING AND PROPOSED USE: MUNICIPAL PARK

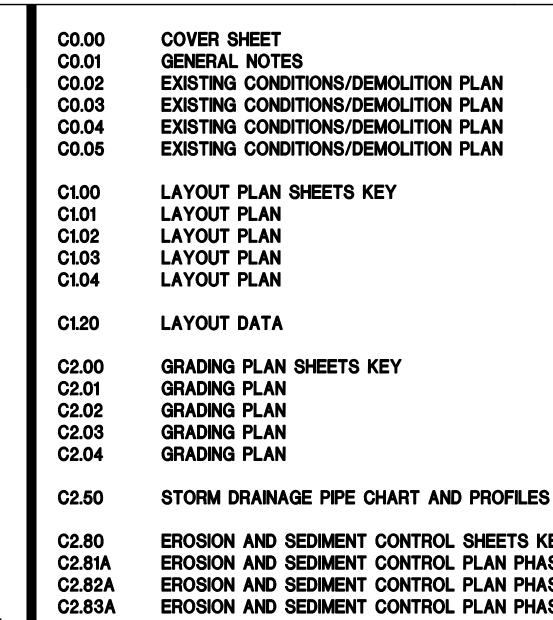
TOTAL SITE AREA: ±103.0 AC TOTAL DISTURBED AREA: ±0.9 AC

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

SITE/CIVIL SHEET INDEX



EROSION AND SEDIMENT CONTROL PLAN PHASE EROSION AND SEDIMENT CONTROL PLAN PHASE EROSION AND SEDIMENT CONTROL PLAN PHASE EROSION AND SEDIMENT CONTROL PLAN PHASE **EROSION AND SEDIMENT CONTROL PLAN PHASE I EROSION AND SEDIMENT CONTROL PLAN PHASE I** EROSION AND SEDIMENT CONTROL PLAN PHASE II EROSION AND SEDIMENT CONTROL PLAN PHASE I **EROSION AND SEDIMENT CONTROL PLAN PHASE III EROSION AND SEDIMENT CONTROL PLAN PHASE III EROSION CONTROL NOTES EROSION CONTROL NOTES AND CHECKLISTS**

DRAINAGE AND EROSION CONTROL DETAILS DRAINAGE AND EROSION CONTROL DETAILS

SITE DETAILS SITE DETAILS

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

FOUNDATION PLAN - BOARDWALK *1 AND PRE-FABRICATED BRIDGE FRAMING PLAN - BOARDWALK #1 FOUNDATION PLAN / FRAMING PLAN - BOARDWALK #2 SECTIONS AND DETAILS SECTIONS AND DETAILS SECTIONS AND DETAILS

STRUCTURAL GENERAL NOTES /

SPECIAL INSPECTION PLAN

MULTI-USE TRAIL





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

CIVIL ENGINEER

> S3.01

STRUCTURAL ENGINEER

EMC STRUCTURAL ENGINEERS, PC 4525 TROUSDALE DRIVE NASHVILLE, TN 37204 PHONE 615-781-8199 CONTACT: JOHNNY JOHNSON

ABBREVIATIONS

ASPH - ASPHALT NUMBER OC - ON CENTER BC - BOTTOM OF CURB OD - OUTSIDE DIAMETER BFP - BACKFLOW PREVENTER PD — PERFORATED DRAIN BOTTOM OF STEP PL - PROPERTY LINE BOTTOM OF WALL POB - POINT OF BEGINNING PP - POWER POLE CENTERLINE R - RADIUS CONTROL JOINT

CONT - CONTINUOUS SERV - SERVICE CY - CUBIC YARD SCH - SCHEDULE DIA – DIAMETER SF - SQUARE FEET DR - DRIVE S.F. - SILT FENCE EXPANSION JOINT SQ - SQUARE ELEC - ELECTRIC SY - SQUARE YARD ELEV - ELEVATION SIG - SIGNAL FH - FIRE HYDRANT SPECS - SPECIFICATIONS EX - EXISTING STA - STATION

CO - COMPANY

JUNC - JUNCTION

NIC - NOT IN CONTRACT

FT ST - STREET FL — FLOW LINE TELEPHONE GALV - GALVANIZED TC - TOP OF CURB HIGH POINT TG - TOP OF GRATE HEIGHT TF - TOP OF FIELD (NON-PAVED) TP - TOP OF PAVEMENT ID - INSIDE DIAMETER TS - TOP OF STEP

ROW - RIGHT OF WAY

TW - TOP OF WALL LC - LIMITS OF CLEARANCE TYP - TYPICAL LOC - LIMITS OF CONSTRUCTION VERT - VERTICAL LF - LINEAR FEET W - WATER MAX — MAXIMUM WS - WATER SERVICE MIN — MINIMUM WV - WATER VALVE MANHOLE WWF - WELDED WIRE FRAME MPH - MILES PER HOUR

NOTE: THESE ABBREVIATIONS ARE GENERAL INDIVIDUAL SHEETS MAY INCLUDE OTHERS

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 NOTED
- 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.
- 11. 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.

DEMOLITION NOTES

1. COORDINATE REMOVAL OF ALL SITE AMENITIES WITH THE CONSTRUCTION MANAGER.

3. CONTRACTOR TO COORDINATE WITH THE APPROPRIATE AGENCIES REGARDING THE

DISPOSAL OF ALL SUBSURFACE MATERIALS - SEPTIC SYSTEMS, GAS, WATER, SEWER,

PRODUCTS, ETC. ALL STORAGE IS BEHIND CHAIN LINK FENCE W/PRIVACY SLATS.

ELECTRIC SERVICE LINES, ETC. REFER TO THE SITE SURVEY FOR LOCATION OF THESE

4. NO OUTSIDE STORAGE PROPOSED. THIS INCLUDES SUPPLIES, EQUIPMENT, VEHICLES, &

THE PROPERTY FOR THEIR STORAGE AND RE-USE.

2. ALL EQUIPMENT AND MATERIAL REMOVED FROM THE SITE MUST BE INSPECTED BY THE

TO RE-CLAIM ALL EQUIPMENT AND MATERIALS ASSOCIATED WITH DEMOLISHED ITEMS ON

CONSTRUCTION MANAGER PRIOR TO DISPOSAL. THE CITY OF DUNWOODY RESERVES THE RIGHT

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.
- 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.
- 10. 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.

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
- 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.

FOR ANY DAMAGES TO SUCH PROPERTY.

- 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 FROM LIABILITY AT THE SITE THROUGHOUT THE CONSTRUCTION PROCESS.
- 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.
- 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.



220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017 THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF THIS
DRAWING WITHOUT THEIR WRITTEN CONSENT
IS PROHIBITED AND ANY INFRINGEMENT IS
SUBJECT TO LEGAL ACTION.



■ ∞ **1** \mathbf{O}

DUNWO(USE TRAIL PEACHTREE ROAD, 1344-01-001, 18-344-01-Y OF DUNWO TI-U
ORTH PE
O LOTS 6
201, 18-3

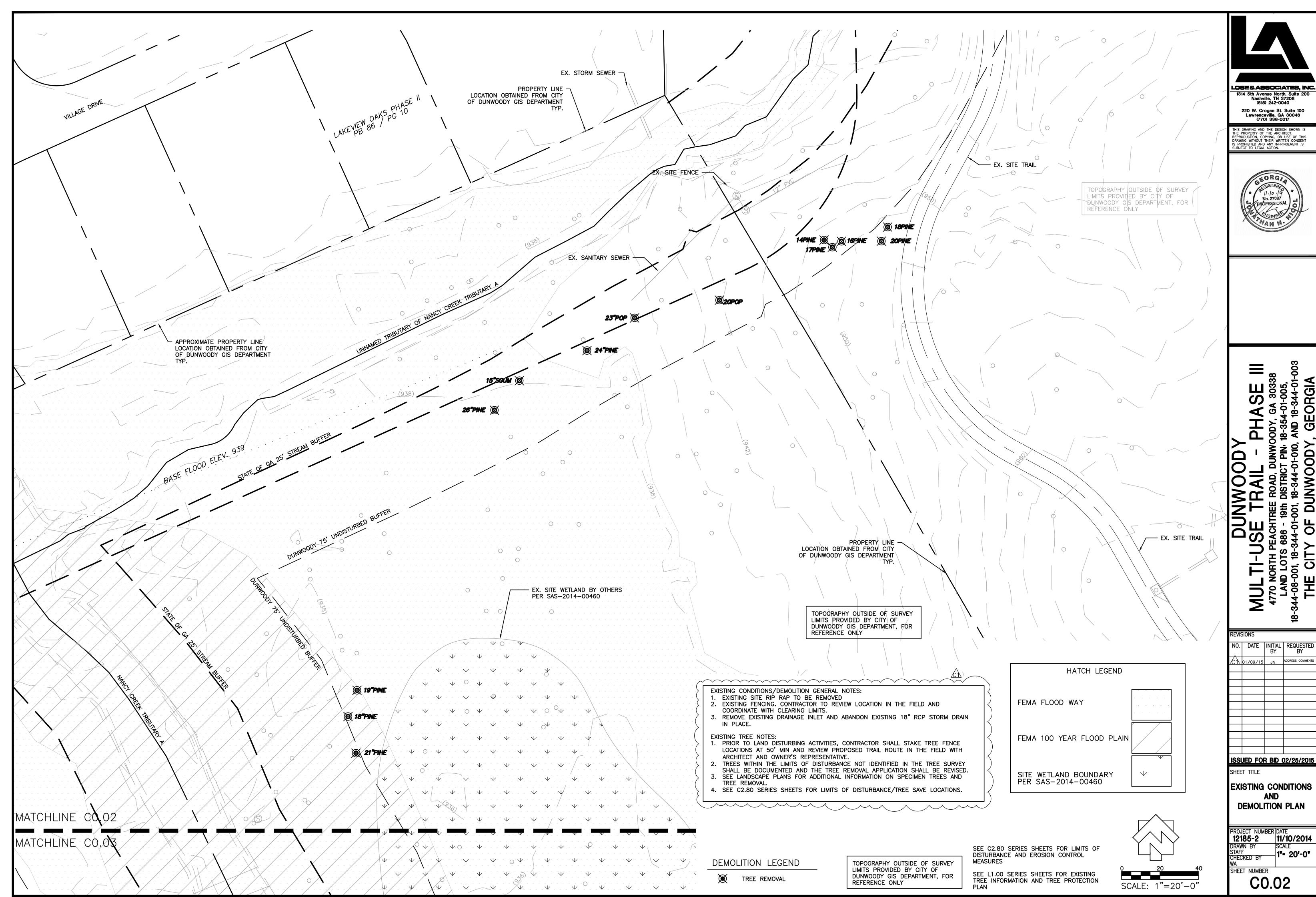
				₹
Ī	REVIS	SIONS		
	NO.	DATE	INITIAL BY	REQUESTE BY
ŀ				
l				
L				
ŀ				
I				
ŀ				
I				
ŀ				
ŀ				
	ISSL	JED FOI	R BID (02/25/201

SHEET TITLE

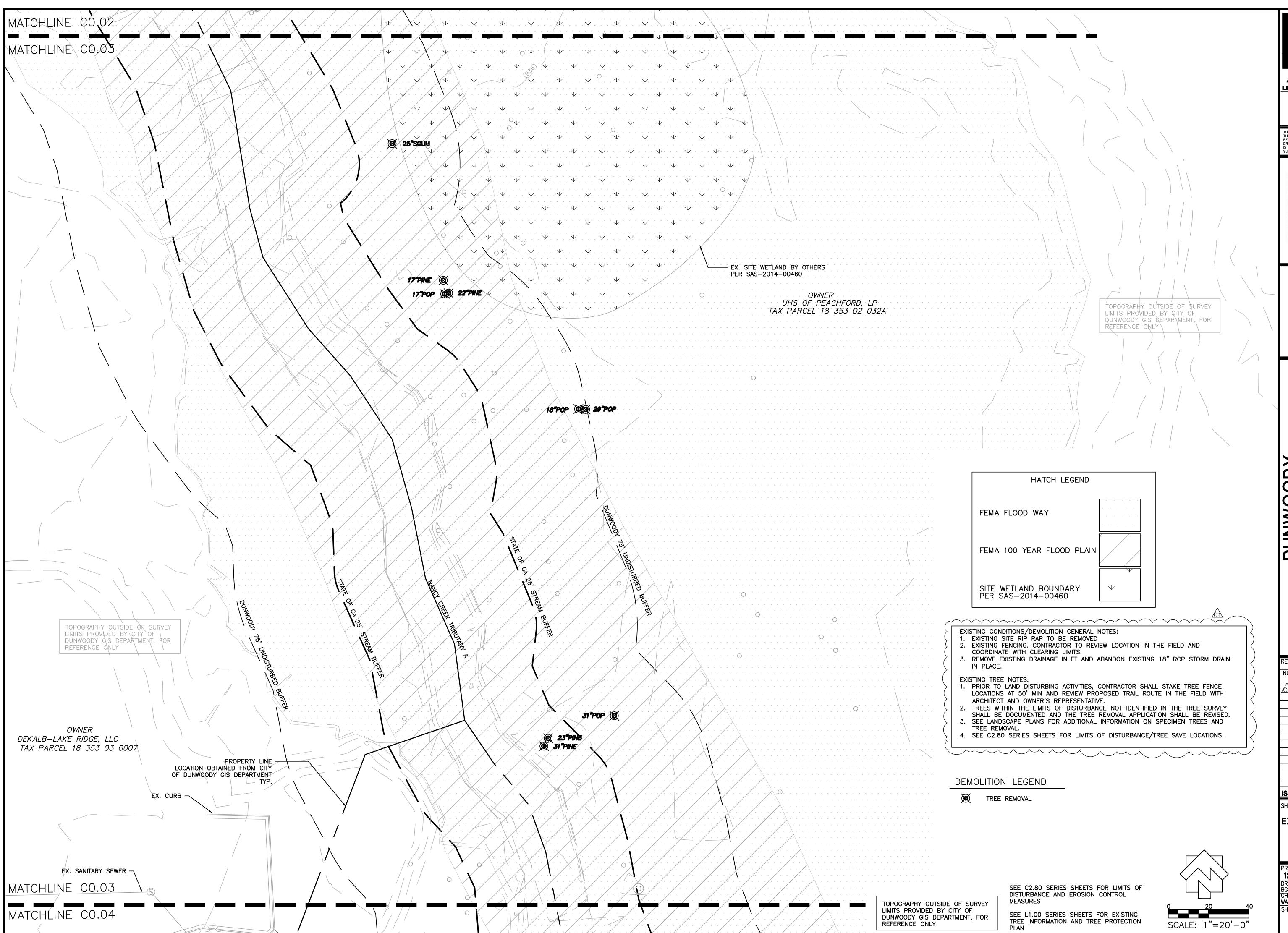
PROJECT NUMBER DATE 12185-2 | 11/10/2014 DRAWN BY ISCALE STAFF N/A

GENERAL NOTES

CHECKED BY SHEET NUMBER C0.01



_|1°= 20'-0° SHEET NUMBER C0.02





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

THIS DRAWING AND THE DESIGN SHOWN IS
THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF THIS
DRAWING WITHOUT THEIR WRITTEN CONSENT
IS PROHIBITED AND ANY INFRINGEMENT IS
SUBJECT TO LEGAL ACTION.



MULTI-USE TRAIL - PHASE

4770 NORTH PEACHTREE ROAD, DUNWOODY, GA 303
LAND LOTS 686 - 19th DISTRICT PIN: 18-354-01-005,

REVISIONS

NO. DATE INITIAL REQUESTED BY

O1/09/15 JN ADDRESS COMMENTS

ISSUED FOR BID 02/25/2015

SHEET TITLE

EXISTING CONDITIONS

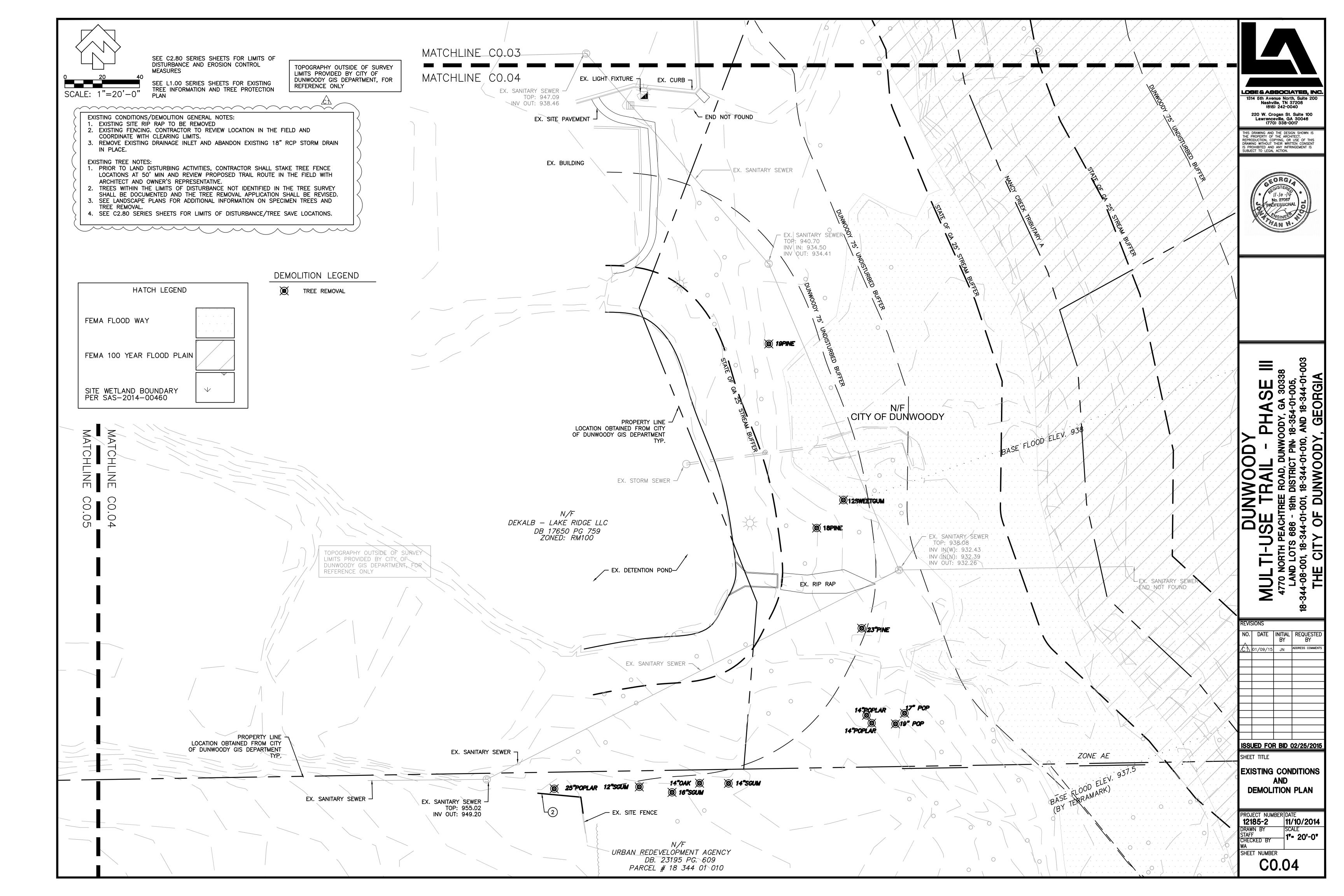
AND

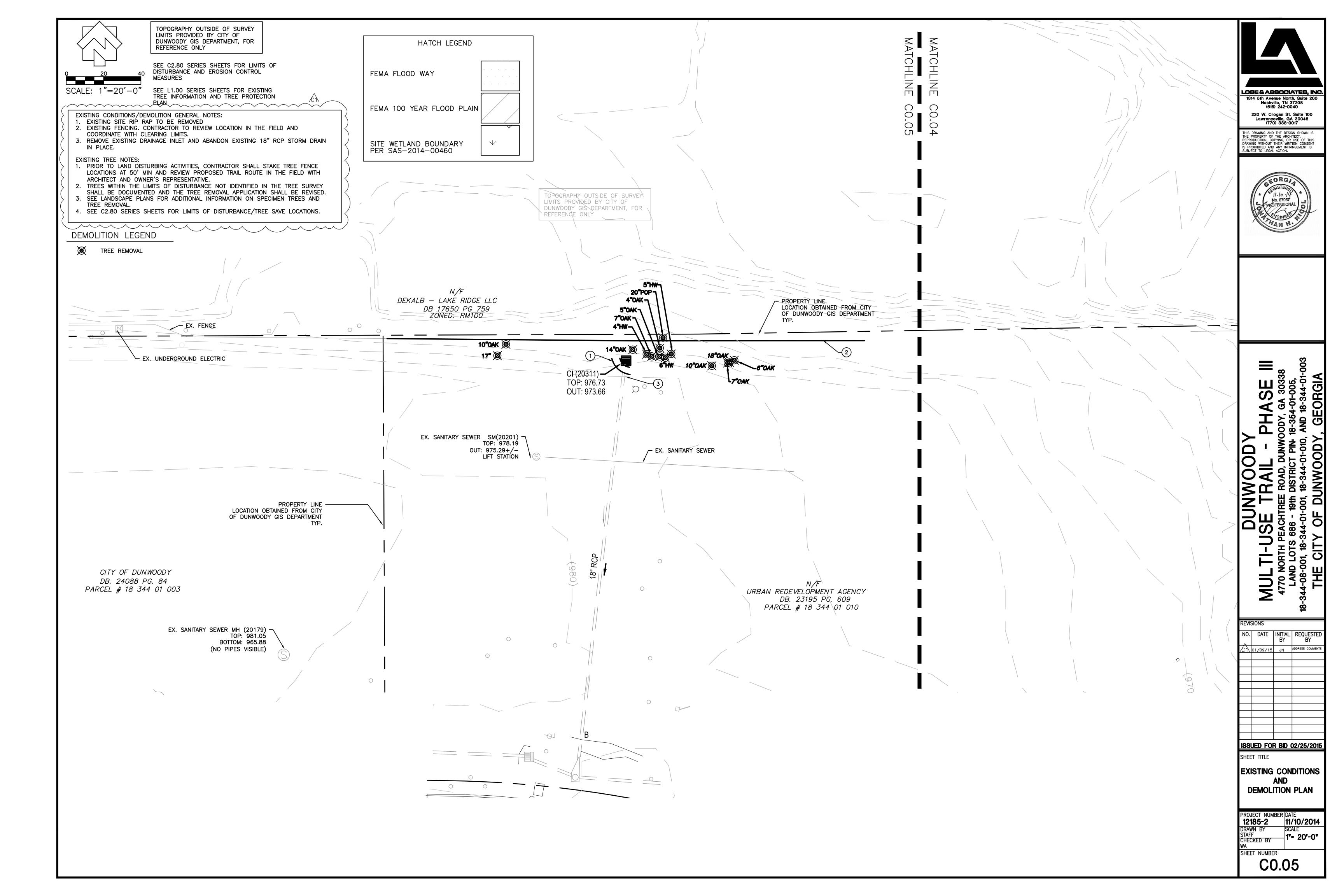
PROJECT NUMBER DATE
12185-2
11/10/2014
DRAWN BY
BGM
CHECKED BY

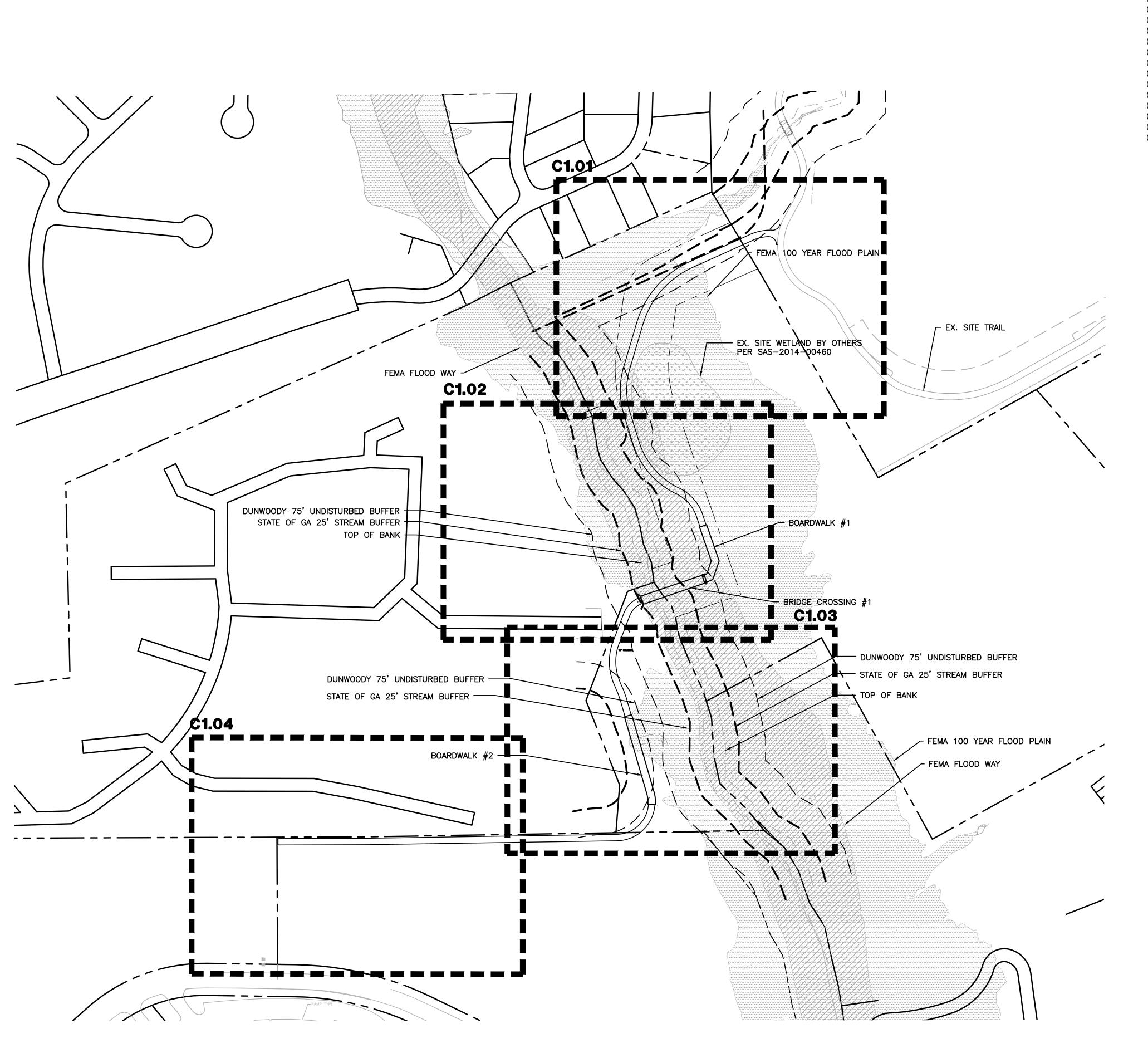
PROJECT NUMBER DATE
11/10/2014
1'- 20'-0'

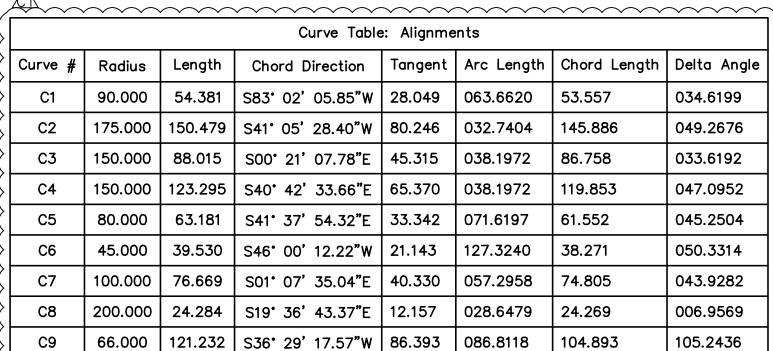
DRAWN BY
BGM
CHECKED BY
WA
SHEET NUMBER

CO.03







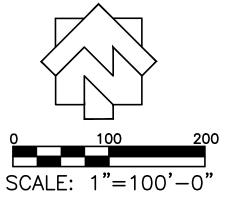


L	ine Table:	Alignments
Line #	Length	Direction
L1	122.640	S65° 43′ 30.04″W
L2	86.164	S16° 27' 26.76"W
L3	55.818	S17° 09' 42.31"E
L4	89.647	S19° 02' 03.97"E
L5	31.211	S18* 56' 49.37"W
L6	9.608	S67° 42′ 49.45″W
L7	125.626	S71° 10' 08.76"W
L8	56.242	S20° 50' 15.67"W
L9	13.277	S23° 05' 25.74"E
L10	177.320	S16° 08' 01.00"E
L11	466.712	S89° 06' 36.13"W
L12	167.321	S89° 50' 23.13"W

- 1. 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
- 2. 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.
- 3. REFER TO ARCHITECTURAL SET FOR DIMENSIONING THAT DIRECTLY REFERS TO ANY OF THE BUILDING PADS AND STRUCTURES ON SITE.
- 4. ALL WORK SHALL BE COMPLETED TO THE LEVEL INDICATED BY THE SCOPE OF WORK LISTED IN THE BID DOCUMENTS.
- CONTRACTOR SHALL PROVIDE ADEQUATE LAYOUT INFORMATION TO DEMONSTRATE, TO THE MAXIMUM EXTENT PRACTICAL, THAT NO CONFLICTS BETWEEN VARIOUS TRADES EXIST AND PROPOSED FACILITIES
- 6. DO NOT SCALE DRAWINGS.
- 7. DRAINAGE STRUCTURES ON GRADING PLANS 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.
- 8. INSTALL JOINTS WHERE SHOWN. ALIGN ON WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
- 9. LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
- 10. ALL CURBS ARE DIMENSIONED TO THE FACE OF CURB.
- 11. GENERAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF IRRIGATION SLEEVES. SEE IRRIGATION PLANS FOR LOCATIONS.
- 12. ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED.
- 13. LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
- 14. CONCRETE PAVEMENT TO BE 5" THICK, LIGHT BROOM FINISH UNLESS OTHERWISE
- 15. CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER SUCH WHEN ESTIMATING.
- 16. ALL PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

SEE C2.80 SERIES SHEETS FOR LIMITS OF DISTURBANCE.

NOTE: USE COORDINATE POINT LOCATIONS, CENTERLINES, CENTER POINTS, ETC. TO BEGIN OFFSET DIMENSIONS AS SHOWN ON OTHER LAYOUT SHEETS.





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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



REVISIONS NO. DATE INITIAL REQUESTED BY

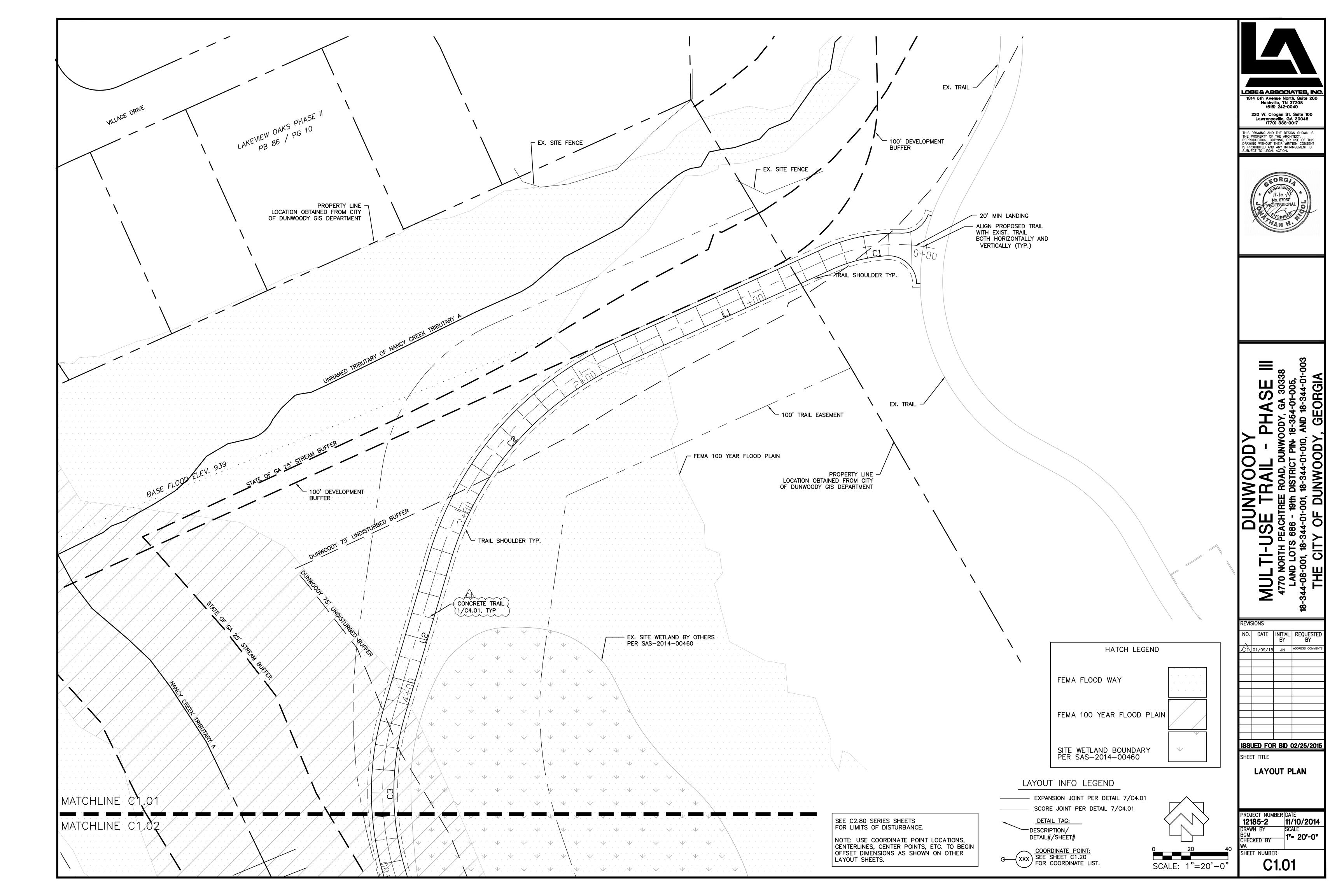
ISSUED FOR BID 02/25/2015

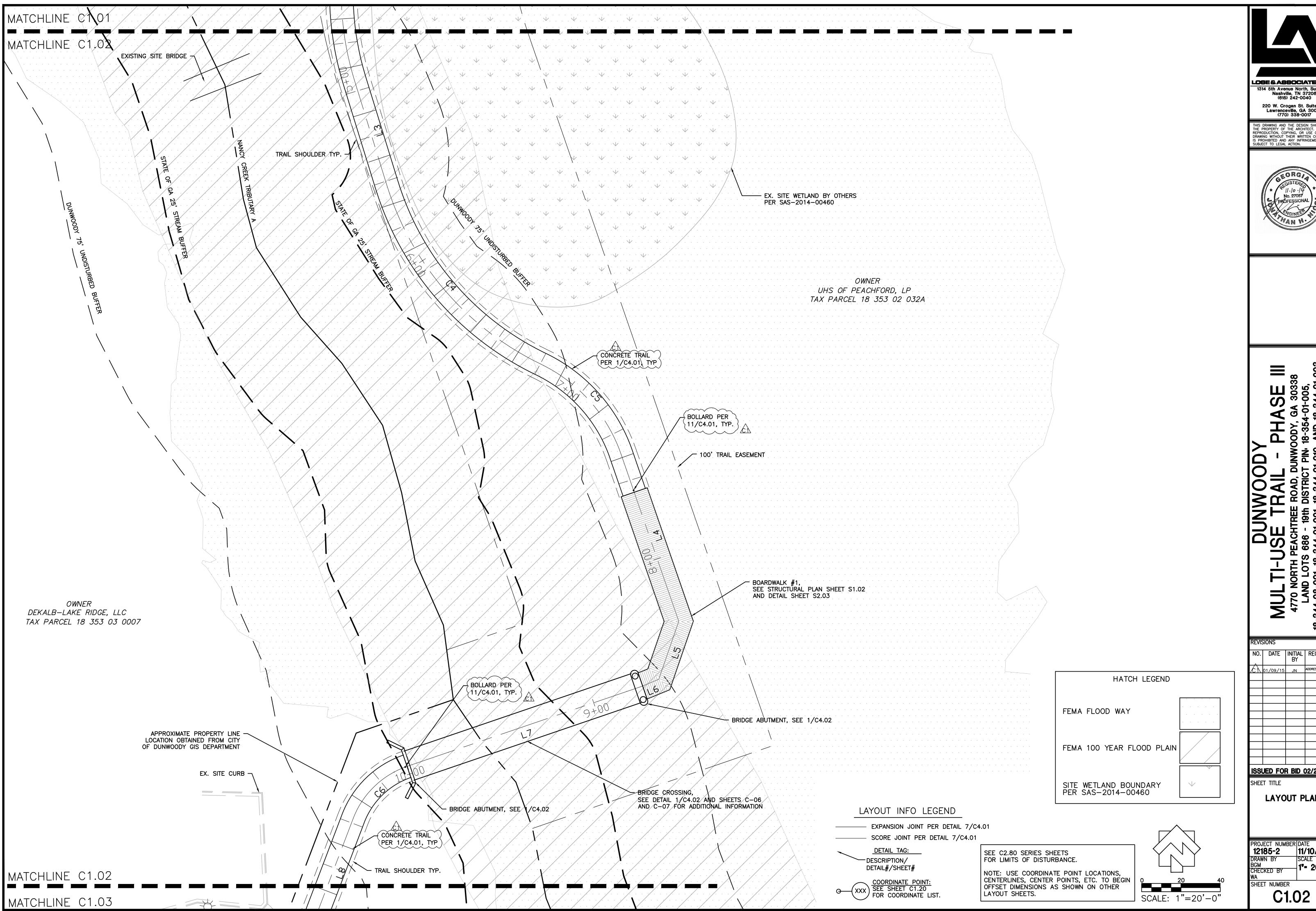
SHEET TITLE LAYOUT PLAN SHEETS KEY

PROJECT NUMBER DATE 12185-2 | 11/10/2014

C1.00

SHEET NUMBER





LOSE & ABSOCIATES, INC.

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

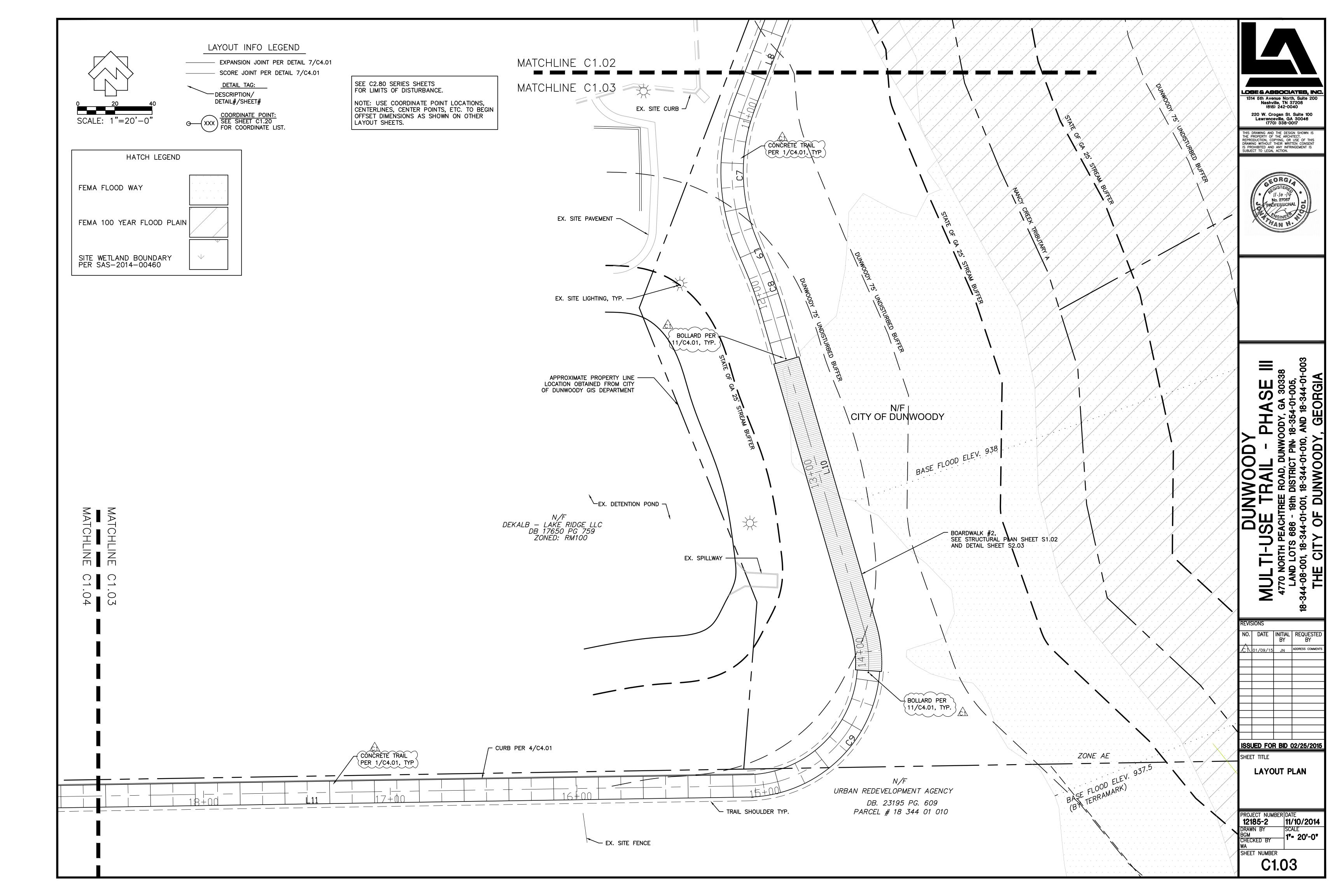


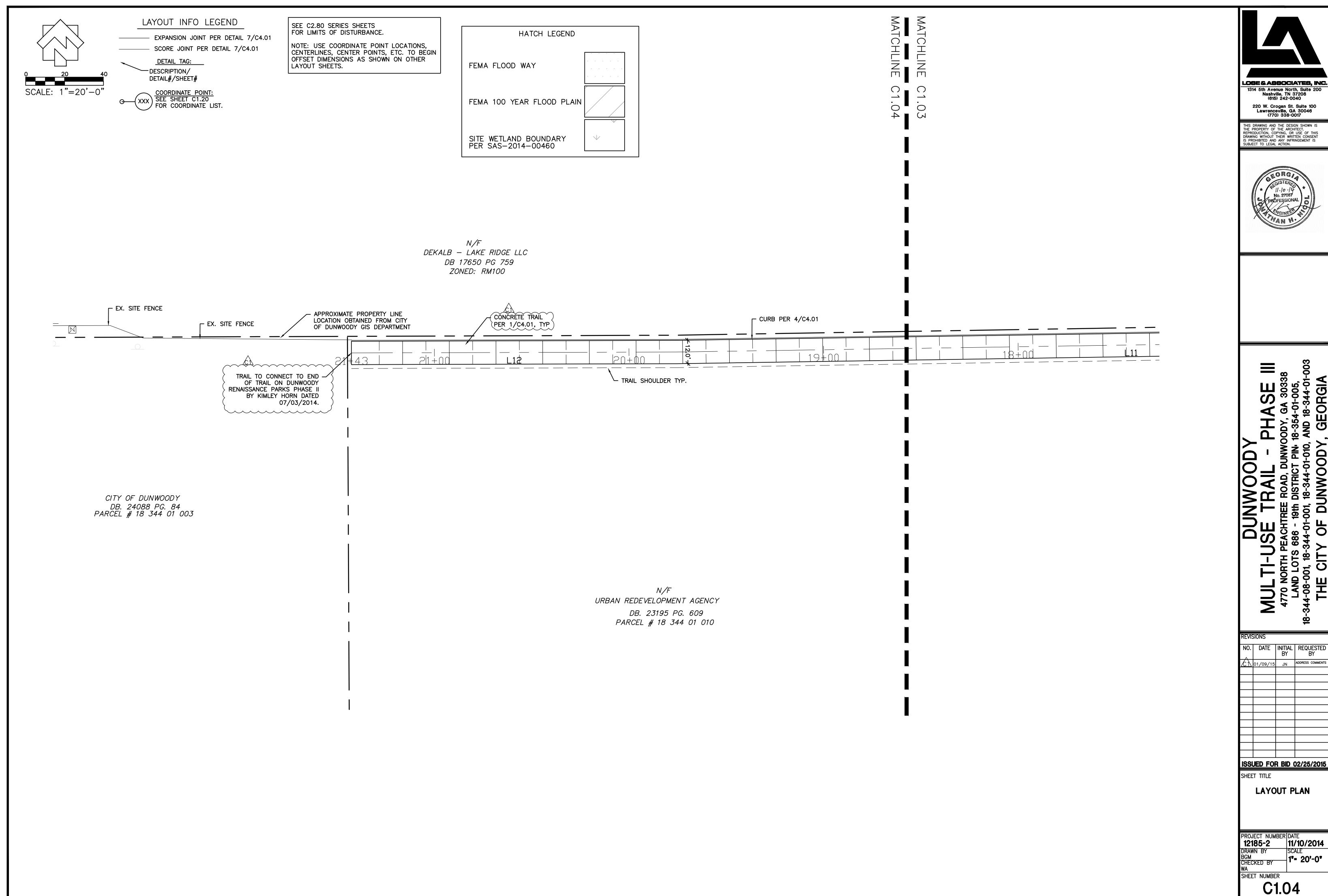
NO. DATE INITIAL REQUESTED BY

ISSUED FOR BID 02/25/2015

LAYOUT PLAN

PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY SCALE
BGM CHECKED BY 1"- 20'-0"





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



PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY SCALE BGM 1"- 20'-0"

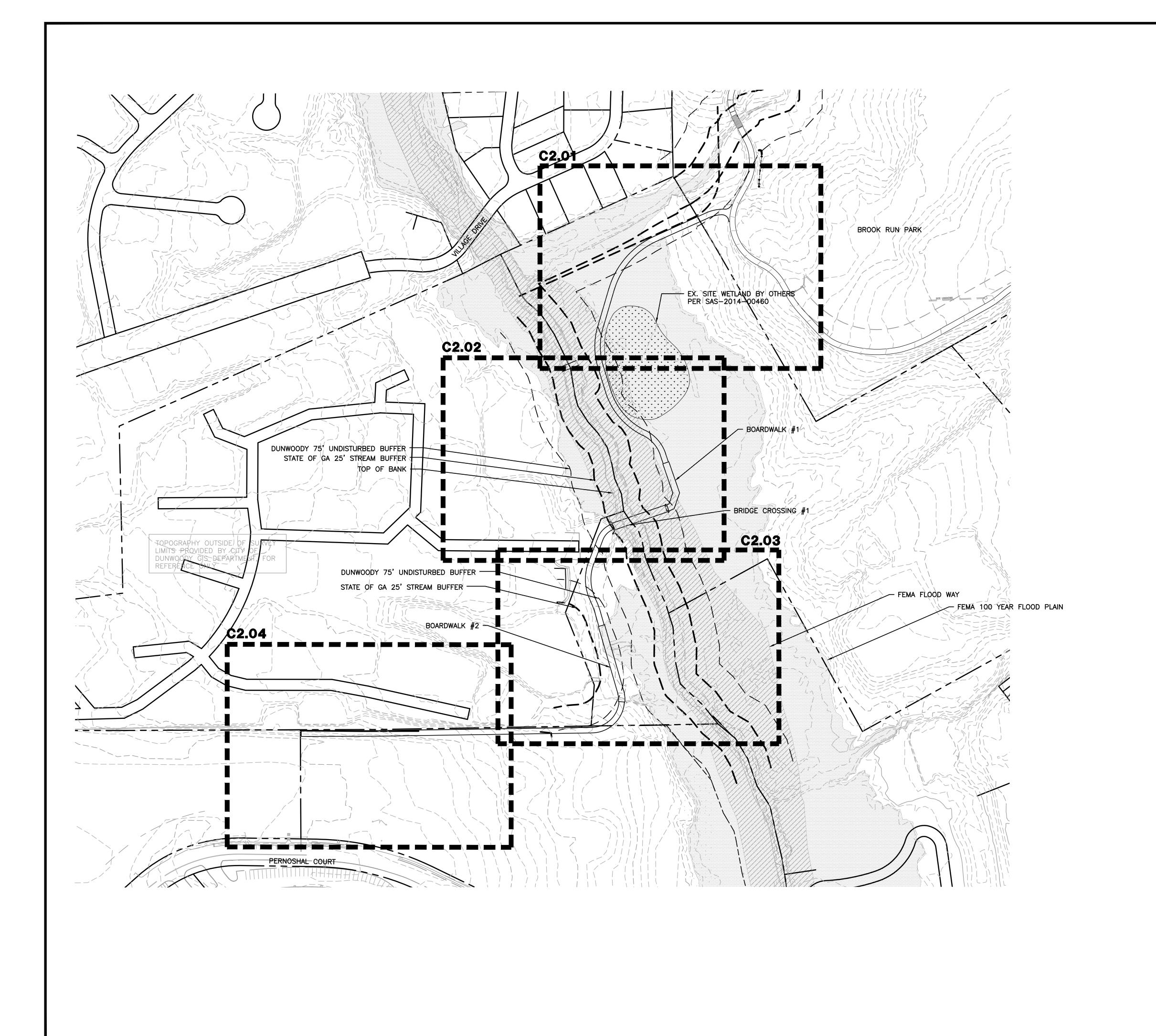
COORDINATE POINT DATA TO BE COORDINATE POINT DATA TO BE PROVIDED TO THE SUCCESSFUL BIDDING CONTRACTOR PROVIDED TO THE SUCCESSFUL BIDDING CONTRACTOR

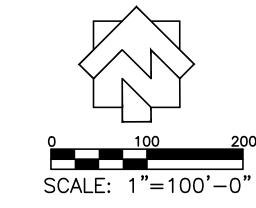


ISSUED FOR BID 02/25/2015 SHEET TITLE

LAYOUT DATA

PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY SCALE
BGM CHECKED BY SHEET NUMBER
C1.20





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

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)

GRADING REQUIREMENTS

LEGEND

- 1. 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.
- 2. UNSUITABLE SOILS SHALL BE UNIFORMLY SPREAD ACROSS NON-STRUCTURAL FILL AREAS AND COVERED WITH TOPSOIL AND SEEDED.
- 3. 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 SPECIFICATION WILL BE ALLOWED UNDER THE DIRECTION OF A QUALIFIED SOILS ENGINEER
- 4. 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 OWNER.
- 5. THE FOLLOWING SOIL COMPACTION RATES WILL BE REQUIRED: A. 95 PERCENT MAXIMUM DRY DENSITY FOR OPEN AREAS AND GENERAL EMBANKMENTS.
- B. 98 PERCENT MAXIMUM DRY DENSITY UNDER ROADS, PARKING TRAILS, SIDEWALKS, BLDG. SLABS, & FOUNDATIONS. 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. 8. ALL AREAS WILL BE GRADED TO PROVIDE PROPER DRAINAGE AND
- PREVENT STANDING WATER.
- 9. GRADING SHOWN IS TO FINISH GRADE.
- 10. CONTRACTOR RESPONSIBLE FOR VERIFYING EXISTING ELEVATIONS COMPARED TO THOSE SHOWN ON PLAN PRIOR TO GRADING.
 NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
- 11. THE SUITABILITY OF SOILS SHALL BE DETERMINED BY A QUALIFIED SOILS ENGINEER EMPLOYED BY THE OWNER. ALL DECISIONS RENDERED BY THE SOILS ENGINEER, RELATED TO SOIL SUITABILITY, SHALL BE FINAL.
- 12. AREAS FOR CONSTRUCTION THAT REQUIRE DE-WATERING FOR EXCAVATION WILL BE DONE AT NO ADDITIONAL COST TO THE CITY.

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.

ADDITIONAL NOTES

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 13089C0016J, DATED MAY 16, 2013, SHOWS ZONE AE.

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
- 2. 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.

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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.

ORTH PI COTS (201, 18-3 70 NOF-AND L-08-001

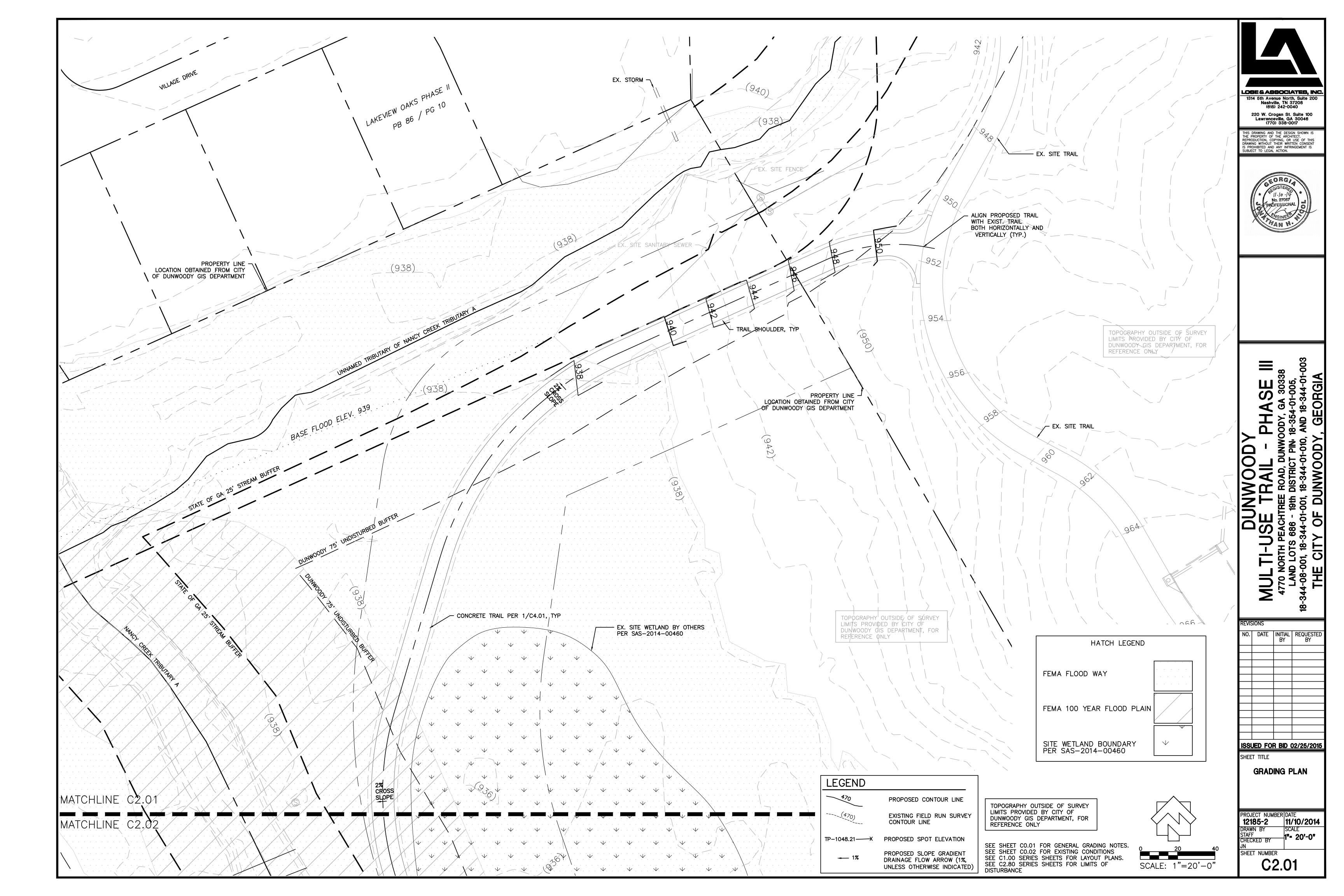
EVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTE BY
SSI	JED FOI	R BID (02/25/201

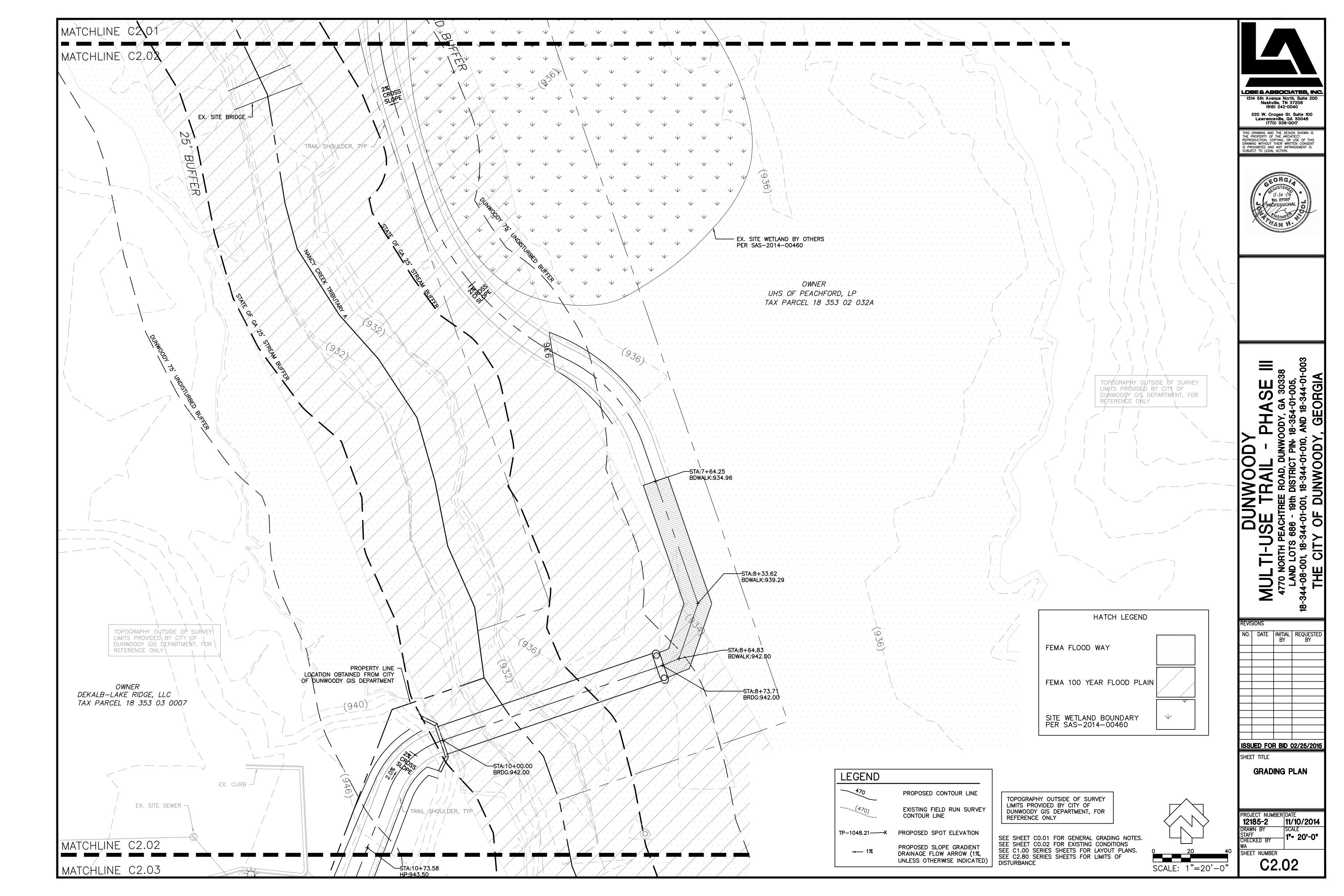
SHEET TITLE

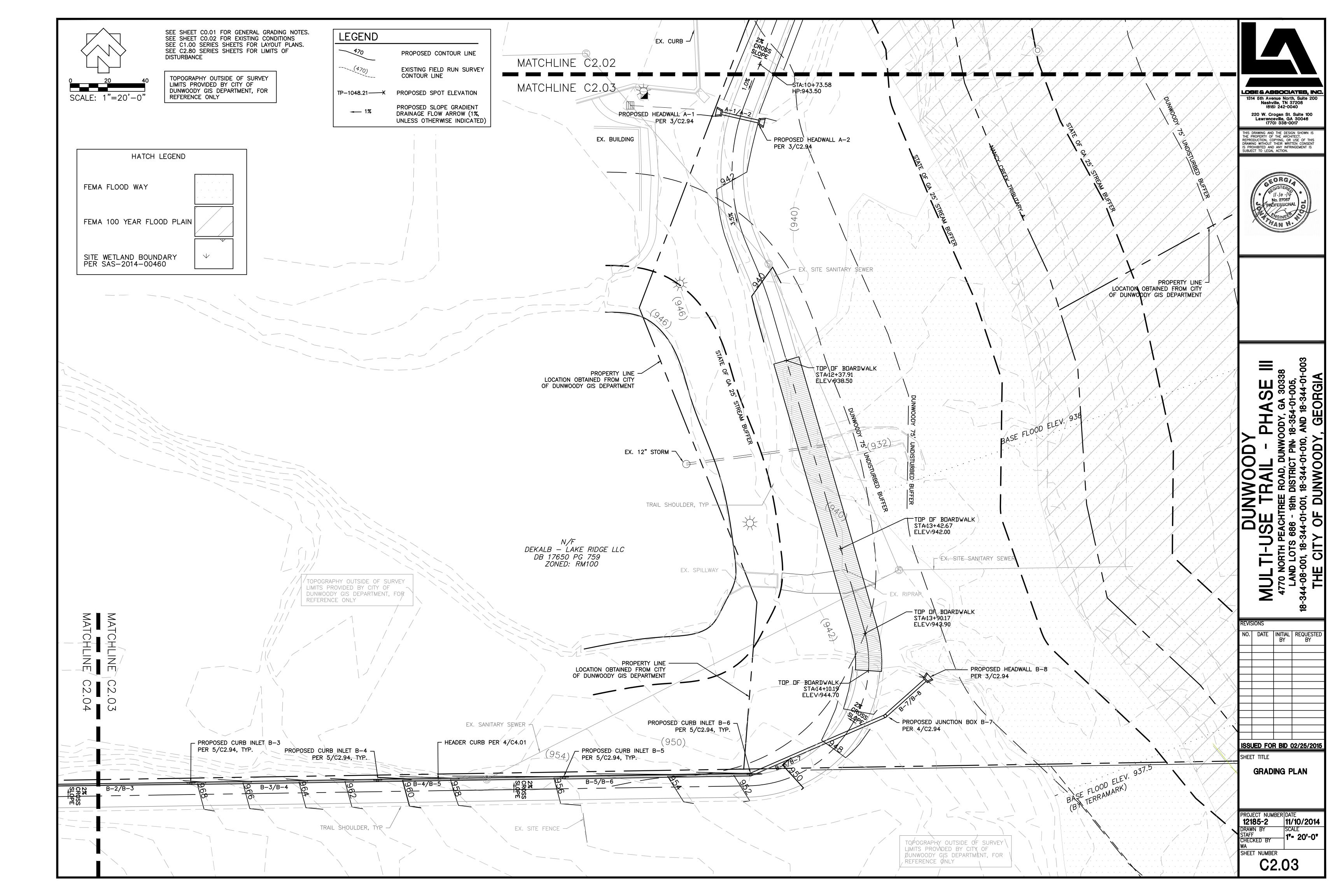
GRADING PLAN SHEETS KEY

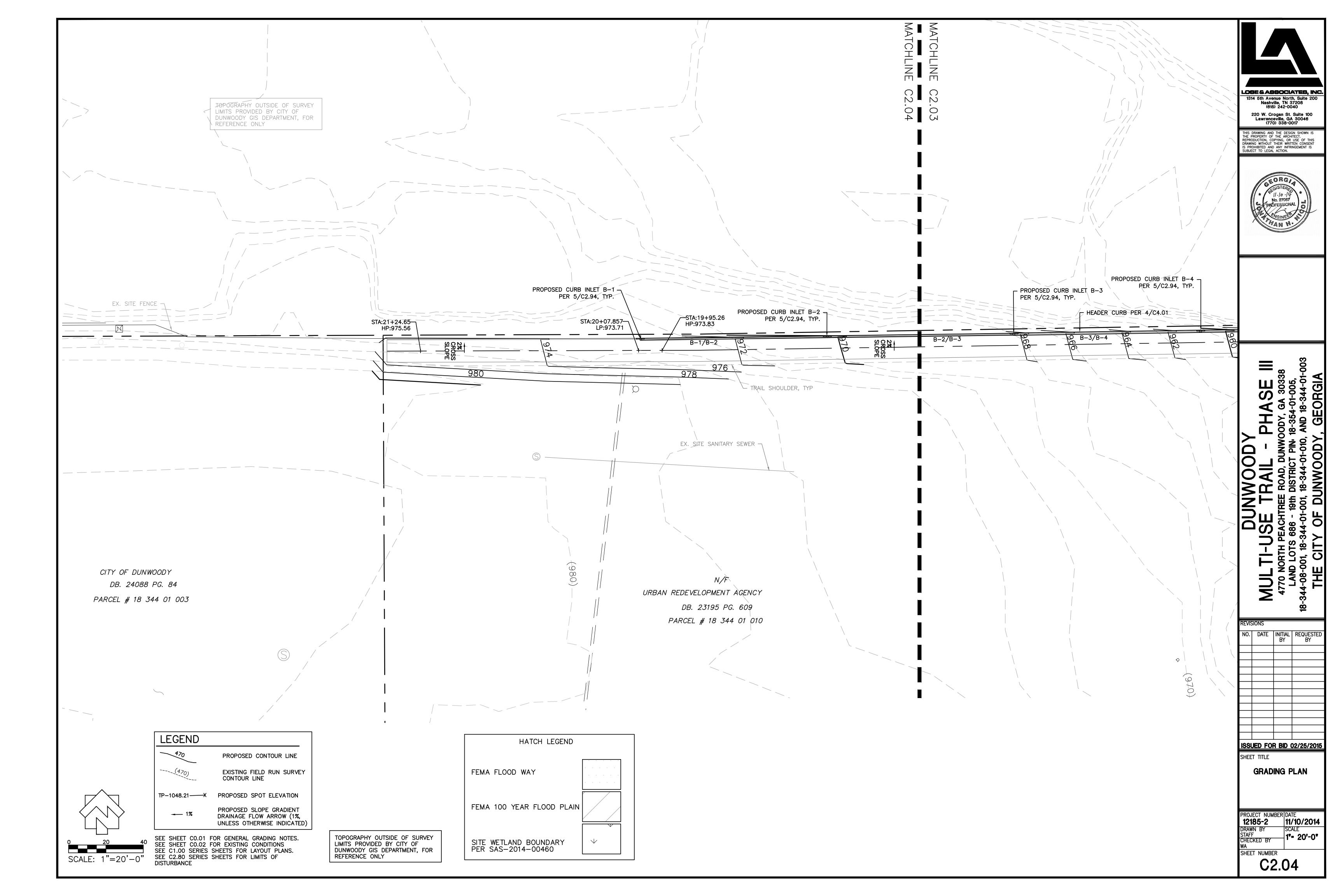
PROJECT NUMBER DATE | 12185-2 | 11/10/2014 SCALE **⊣1"= 100'-0"** CHECKED BY

SHEET NUMBER C2.00







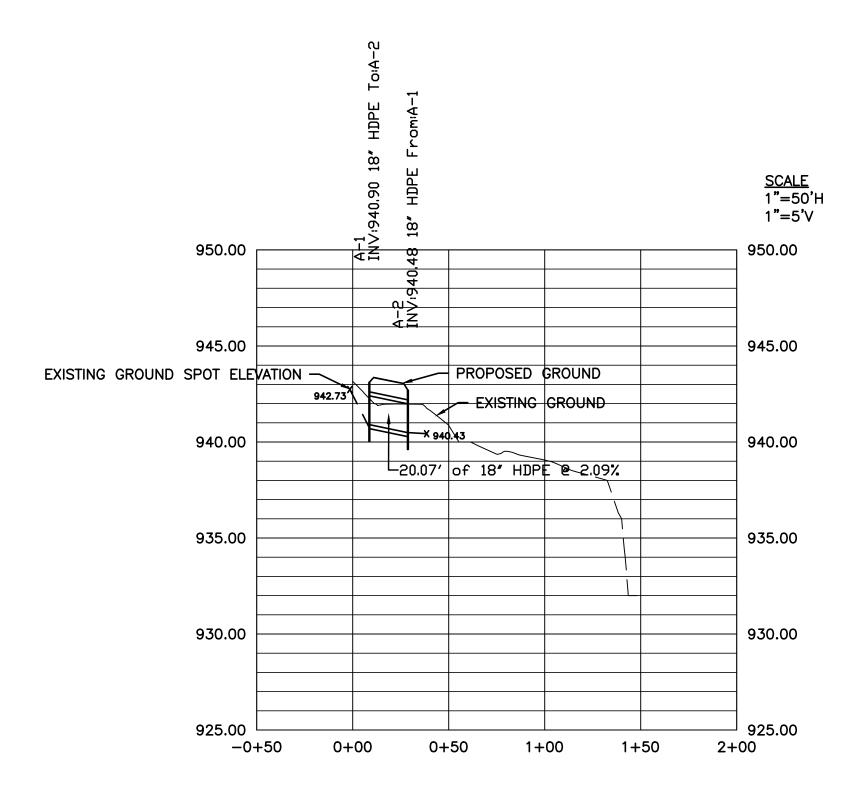


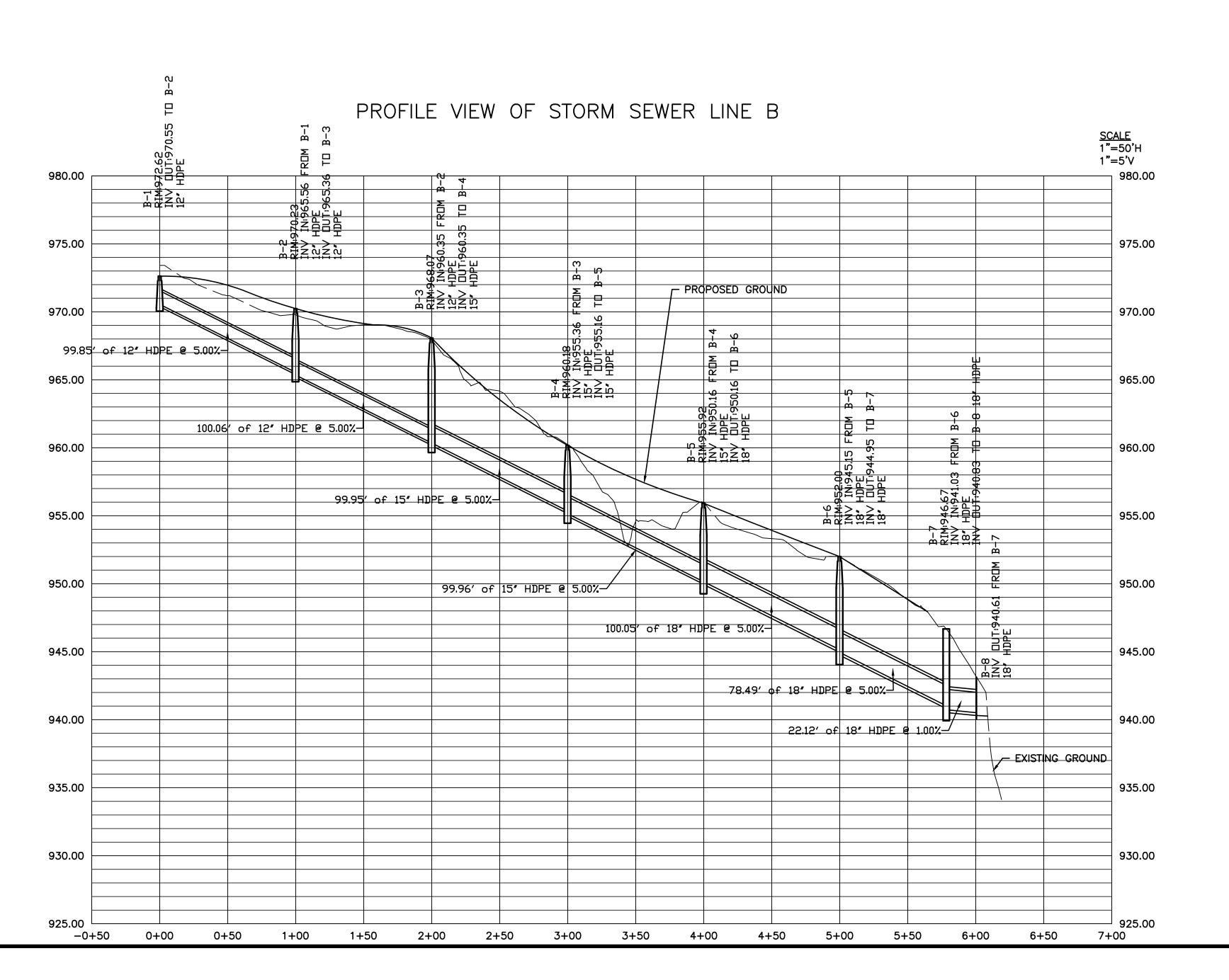
STORM SEWER PIPE CHART

Brook F	Run Parl	k Multi-l	Jse Trail											
Project	•	Brook F	Run Park	Rainfall	Data:	GSWMM								
Project	:#:	12185-2	2	Design S	Storm:	100-YEAR								
FROM	TO	INVER	T ELEV.	LENGTH	SLOPE	DIAMETER	DRAINAGE AREA	RUNOFF COEFF.	PIPE CAPACITY	DESIGN DISCHARGE	VELOCITY	TYPE PIPE	STRUCTURE TYPE	NOTES
T IXOIVI		UPPER	LOWER	(FT.)	(%)	(INCHES)	(ACRES)	NONOTI COLIT.	(CFS)	(CFS)	(FT/S)	111 - 111 -	JINOCIONE III E	NOTES
A-1													HEADWALL	PER 3/C2.94
A-1	A-2	940.90	940.48	20.1	2.09%	18	2.67	0.79	16.46	2.67	5.4	HDPE		
A-2													HEADWALL	PER 3/C2.94
B-1													CURB INLET	PER 5/C2.94
B-1	B-2	970.55	965.56	99.9	5.00%	12	0.33	0.56	8.62	1.49	3.0	HDPE		
B-2													CURB INLET	PER 5/C2.94
B-2	B-3	965.36	960.35	100.1	5.00%	12	0.8	0.56	8.63	7.81	10.0	HDPE		
B-3													CURB INLET	PER 5/C2.94
B-3	B-4	960.35	955.36	100.0	5.00%	15	0.9	0.56	15.63	8.99	8.0	HDPE		
B-4													CURB INLET	PER 5/C2.94
B-4	B-5	955.16	950.16	100.0	5.00%	15	1.3	0.53	15.65	12.87	10.6	HDPE		
B-5													CURB INLET	PER 5/C2.94
B-5	B-6	949.96	944.95	100.1	5.00%	18	1.52	0.63	24.46	15.15	9.2	HDPE		
B-6													CURB INLET	PER 5/C2.94
B-6	B-7	944.95	941.03	78.5	5.00%	18	1.75	0.53	25.42	17.52	10.5	HDPE		
B-7													JUNCTION BOX	PER 4/C2.94
B-7	B-8	940.83	940.61	40.7	1.00%	18	1.98	0.54	24.41	19.89	9.7	HDPE		
B-8													HEADWALL	PER 3/C2.94

STORM SEWER PROFILES

PROFILE VIEW OF STORM SEWER LINE A







DUNWOOL
AULTI-USE TRAIL
4770 NORTH PEACHTREE ROAD, DUN
LAND LOTS 686 - 19th DISTRICT P
18-344-08-001, 18-344-01-01
THE CITY OF DUNWOOL

REVISIONS NO. DATE INITIAL REQUESTED BY ISSUED FOR BID 02/25/2015

SHEET TITLE

STORM DRAINAGE PIPE CHART AND **PROFILES**

PROJECT NUMBER DATE

12185-2 11/10/2014

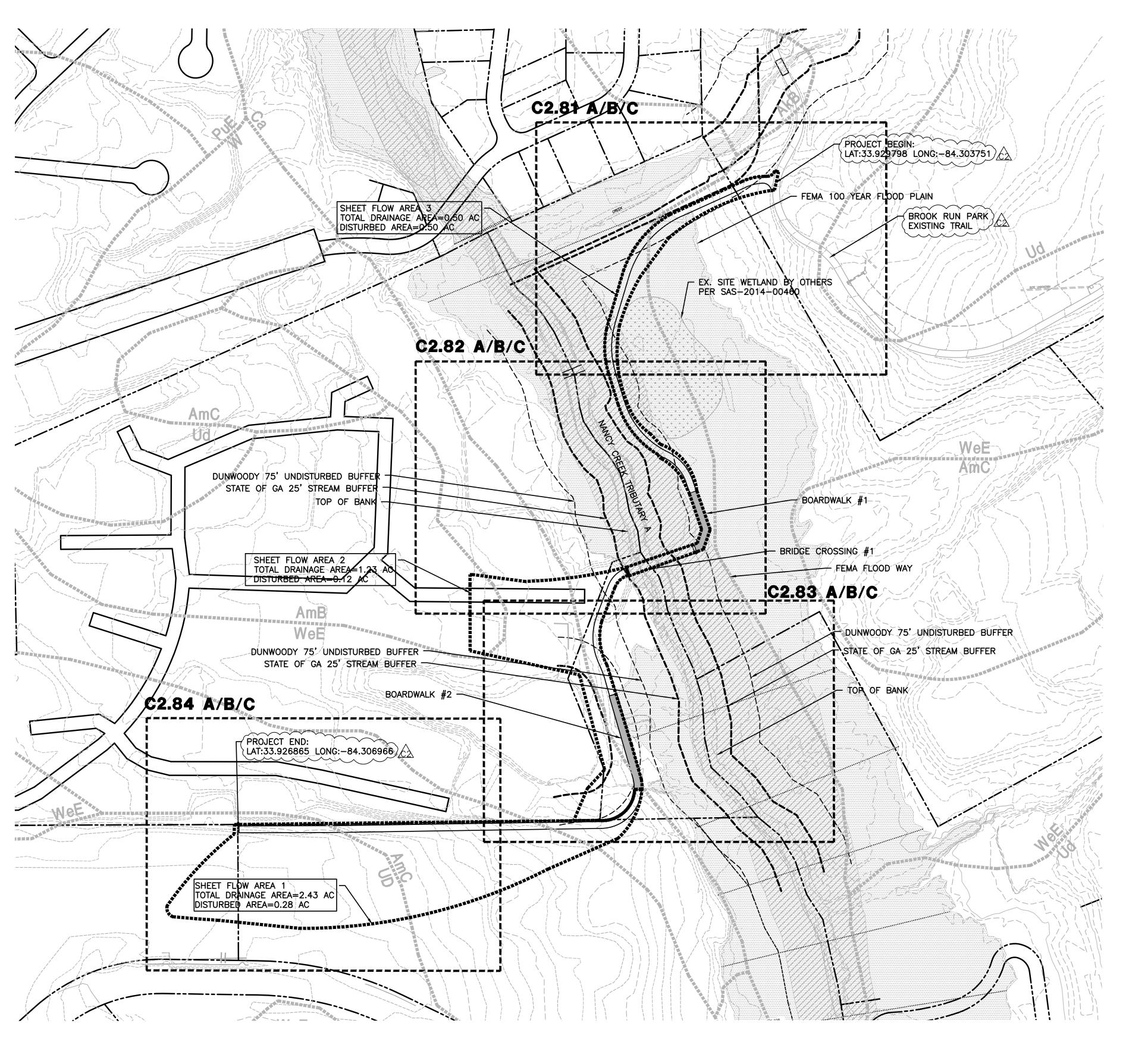
DRAWN BY
STAFF
CHECKED BY
JN

PROJECT NUMBER DATE

11/10/2014

17- 50' H
17- 5' V SHEET NUMBER

C2.50



SCALE: 1"=100'-0'

SEDIMENT STORAGE WRITTEN RATIONALE:
FOR SHEETFLOW LOCATIONS 1, 2 AND 3 A TEMPORARY SEDIMENT BASIN IS NOT PROVIDED

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 BENEFIT AND EASE OF CLEAN-OUT OF ANY TRAPPED SEDIMENT. THERE ARE NO STORM PIPE DRAINAGE SYSTEMS TO DISCHARGE DIRECTLY INTO A SEDIMENT BASIN AS

/c/

BECAUSE THE REQUIRED SEDIMENT STORAGE VOLUME FOR THE TOTAL DRAINAGE AREA IS PROVIDED (SUBSTANTIALLY EXCEEDED) BY THE TYPE C SILT FENCE AND CHECK DAMS. THE

ALL THE RUNOFF IS TREATED THROUGH SHEET FLOW.

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

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

TOTAL SITE AREA: ±103.0 AC
TOTAL DISTURBED AREA: ±0.9 AC

DUNWOODY, GA 30346

STREAM BUFFERS ARE IMPACTED BY THIS PROJECT. THE CONTRACTOR IS NOT AUTHORIZED TO ENTER INTO STREAM BUFFERS, EXCEPT AS DESCRIBED IN THE TABLE BELOW:

VICINITY MAP

S	TREAM BUFFE	R ENCROACH	HMENT TABLE	
NAME OF STREAM	IMPACT LOCATION NUMBER**	STREAM TYPE*	BUFFER IMPACTED? (Y/N)	BUFFER VARIANCE REQUIRED? (Y/N)
UNNAMED TRIBUTARY OF NANCY CREEK TRIBUTARY A	1	WARM	Y	N

THE ALLOWABLE ACTIVITIES WITHIN THE BUFFER ARE FOR A TRAIL BRIDGE CROSSING. SEE INDIVIDUAL ES&PCP SHEETS FOR WORK AREAS.

*WARM WATER STREAMS HAVE A 25-FOOT MINIMUM BUFFER AS MEASURED FROM THE WRESTED VEGETATION. COLD WATER STREAMS HAVE A 50-FOOT BUFFER AS MEASURED FROM THE WRESTED VEGETATION.

** LOCATIONS ARE APPROXIMATE, A DETAILED LOCATION OF STREAM BUFFERS AND AUTHORIZED WORK AREAS ARE SHOWN ON THE INDIVIDUAL BMP SHEETS.

CITY OF DUNWOODY NOTES:

NOT TO SCALE

- . 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 MEETING.
- 2. CALL BEFORE YOU DIG (800) 282-7411. 3. PROVISIONS FOR TREE PROTECTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF DUNWOODY TREE PRESERVATION ORDINANCE, ZONING ORDINANCE AND ADMINISTRATIVE GUIDELINES PERTAINING TO TREE PROTECTION.
- IF THE LANDSCAPE DESIGN AND PLANT MATERIAL ARE CHANGED FROM THE PERMITTED PLAN, THREE (3) SETS OF REVISED PLANS SHALL BE SUBMITTED TO THE CITY OF DUNWOODY ARBORIST'S OFFICE FOR APPROVAL, PRIOR TO ANY LANDSCAPE INSTALLATION.
- 5. ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY OF DUNWOODY AT 678-382-6800 FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.

NRCS SOILS TYPE LEGEND

WATER

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 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 APPLING SANDY LOAM, 2 TO 6 PERCENT SLOPES URBAN LAND

SEDIMENT STORAGE

LOCATION	TOTAL DRAINAGE	DISTURBED AREA	REQUIRED SEDIMENT	TOTAL STORAGE	SEDIMEN	T BASINS	CHECK (# YD)		SILT F (0.3 Y	
	AREA (ACRES)	(ACRES)	STORAGE VOLUME	VOLUME PROVIDED (YD³)	POND #	TOTAL VOLUME (YD³)	# OF DEVICES	TOTAL VOLUME (YD³)	LENGTH OF FENCE (FT)	TOTAL VOLUME (YD³)
SHEET FLOW 1	2.43	0.28	162.8	608.3	_	_	-	_	2027.8	608.3
SHEET FLOW 2	1.23	0.12	82.4	177.5	1	-	2	49.1	427.9	128.4
SHEET FLOW 3	(0.50 \	0.50	33.5	362.1	ı	ı	ı	-	1206.8	362.1
OTAL SHEET FLOW	4.16	0.90	278.7	1147.9	-	-	2	49.1	3662.5	1098.8
		^ ^ ^ ^		^ ^ ^ ^	^ ^ ^ ^		^ ^ ^ ^	^ ^ ^ ^	^ ^ ^ ^	



LOCATION	TOTAL DRAINAGE	DISTURBED AREA	REQUIRED SEDIMENT	TOTAL STORAGE	SEDIMEN	T BASINS		DAMS /EACH)	SILT F (0.3 Y	ENCE D ³ /FT)
	AREA (ACRES)	(ACRES)	STORAGE VOLUME	VOLUME PROVIDED (YD³)	POND #	TOTAL VOLUME (YD³)	# OF DEVICES	TOTAL VOLUME (YD³)	LENGTH OF FENCE (FT)	TOTAL VOLUME (YD³)
HEET FLOW 1	2.43	0.28	162.8 }	608.3	_	_	-	-	2027.8	608.3
HEET FLOW 2	1.23	0.12	82.4	177.5	_	-	2	49.1	427.9	128.4
HEET FLOW 3	0.50	0.50	33.5	362.1	_	ı	_	_	1206.8	362.1
AL SHEET FLOW	4.16	0.90	278.7	1147.9	_	1	2	49.1	3662.5	1098.8
~~~~										



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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #14361

REVISIONS NO. | DATE | INITIAL | REQUESTE BY 01/28/15 JN ADDRESS COMMEN €3 02/12/15 JN PER EPD COMMEN

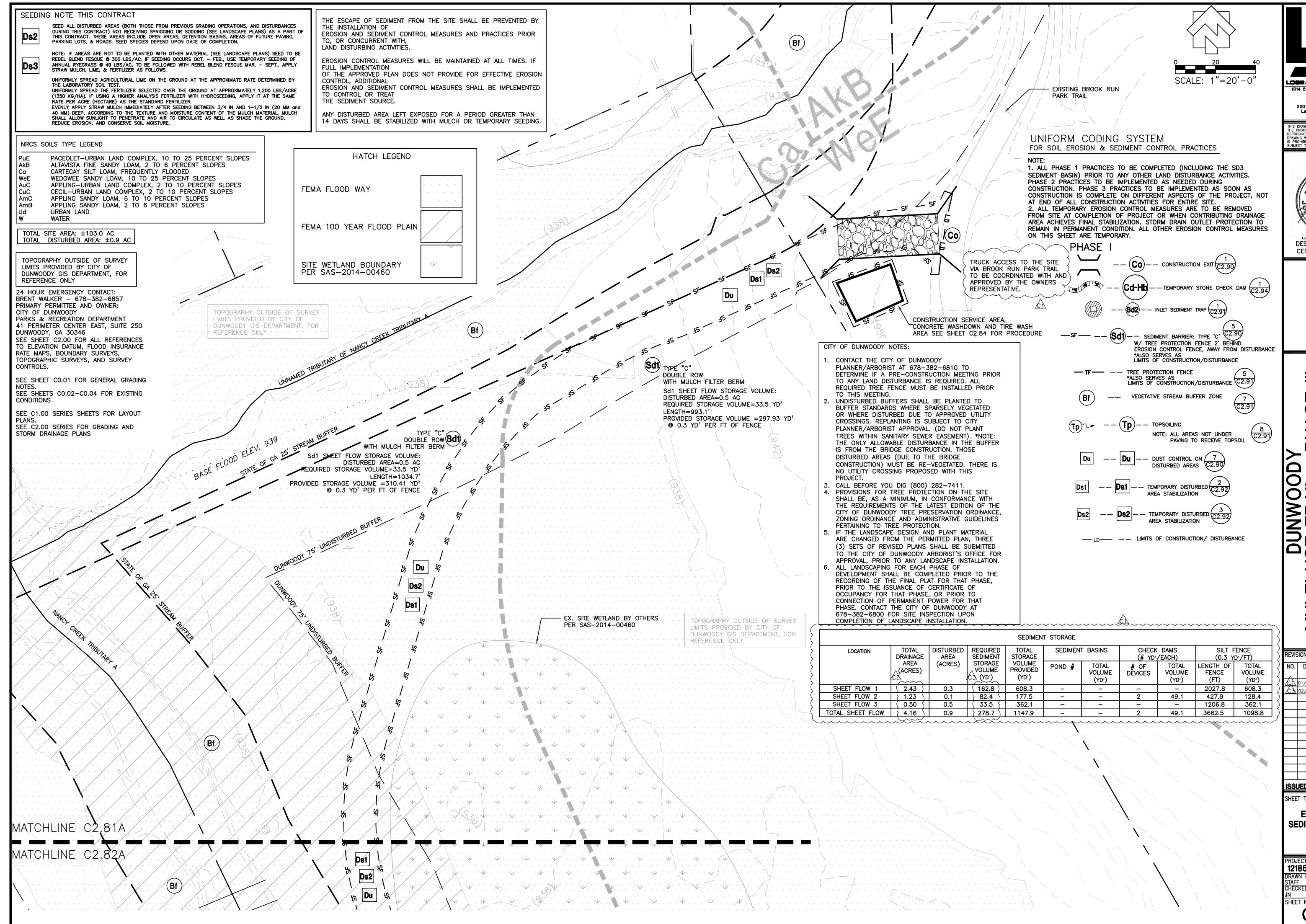
<u>SSUED FOR BID 02/25/2015</u>

SHEET TITLE **EROSION AND** SEDIMENT CONTROL

**PLAN** SHEETS KEY PROJECT NUMBER DATE | 12185-2 | 11/10/2014

DRAWN BY **⊣1"= 150'-0"** CHECKED BY

SHEET NUMBER C2.80



LOBE & ABBOCIATES, 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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



DESIGN PROFESSIONAL CERTIFICATION #14361

TI-USE TRAIL - PHASE III NORTH PEACHTREE ROAD, DUNWOODY, GA 30338 ID LOTS 686 - 19th DISTRICT PIN- 18-354-01-005,

REVISIONS

NO. DATE INITIAL REQUESTED BY

01/09/15 JN ADDRESS COMMENTS

02/12/15 JN PER EPD COMMENTS

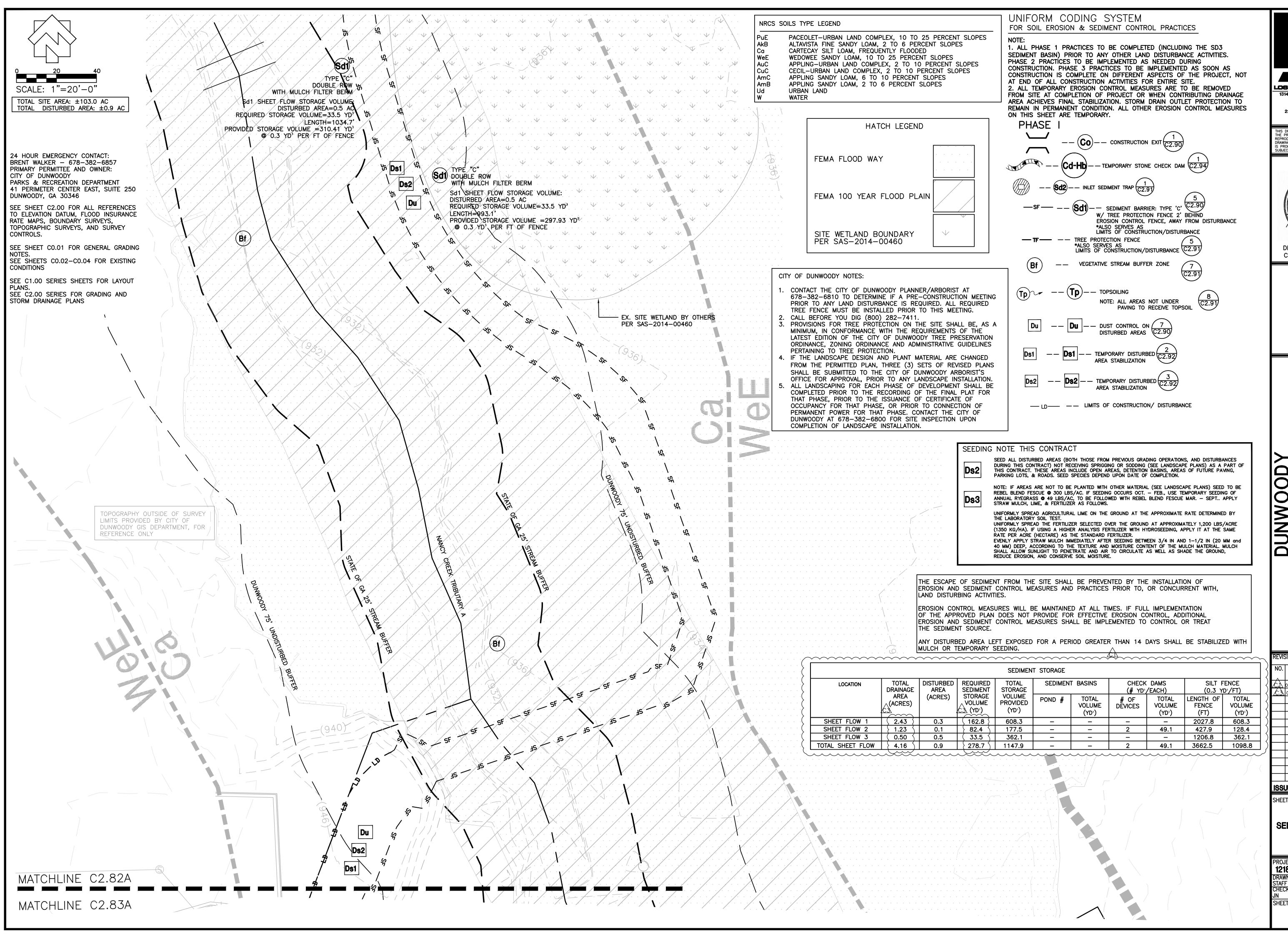
SSUED FOR BID 02/25/2015

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE I

PROJECT NUMBER DATE
12185-2
11/10/2014
DRAWN BY
STAFF
CHECKED BY
JN

C2.81A



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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



LEVEL II CERTIFIED
DESIGN PROFESSIONAL
CERTIFICATION #14361

ILTI-USE TRAIL - PHASE

DINNWOODY, GA 303

AND LOTS 686 - 19th DISTRICT PIN: 18-354-01-005, 18-344-01-001, 18-344-01-010, AND 18-344-01-010, AND 18-344-01-010, AND 18-344-01-010, AND 18-344-01-0110, AND 18-

REVISIONS

NO. DATE INITIAL REQUESTED BY

C. 01/09/15 JN ADDRESS COMMENTS

C. 02/12/15 JN PER EPD COMMENTS

ISSUED FOR BID 02/25/2015
SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE I

PROJECT NUMBER DATE

12185-2

DRAWN BY
STAFF
CHECKED BY
JN

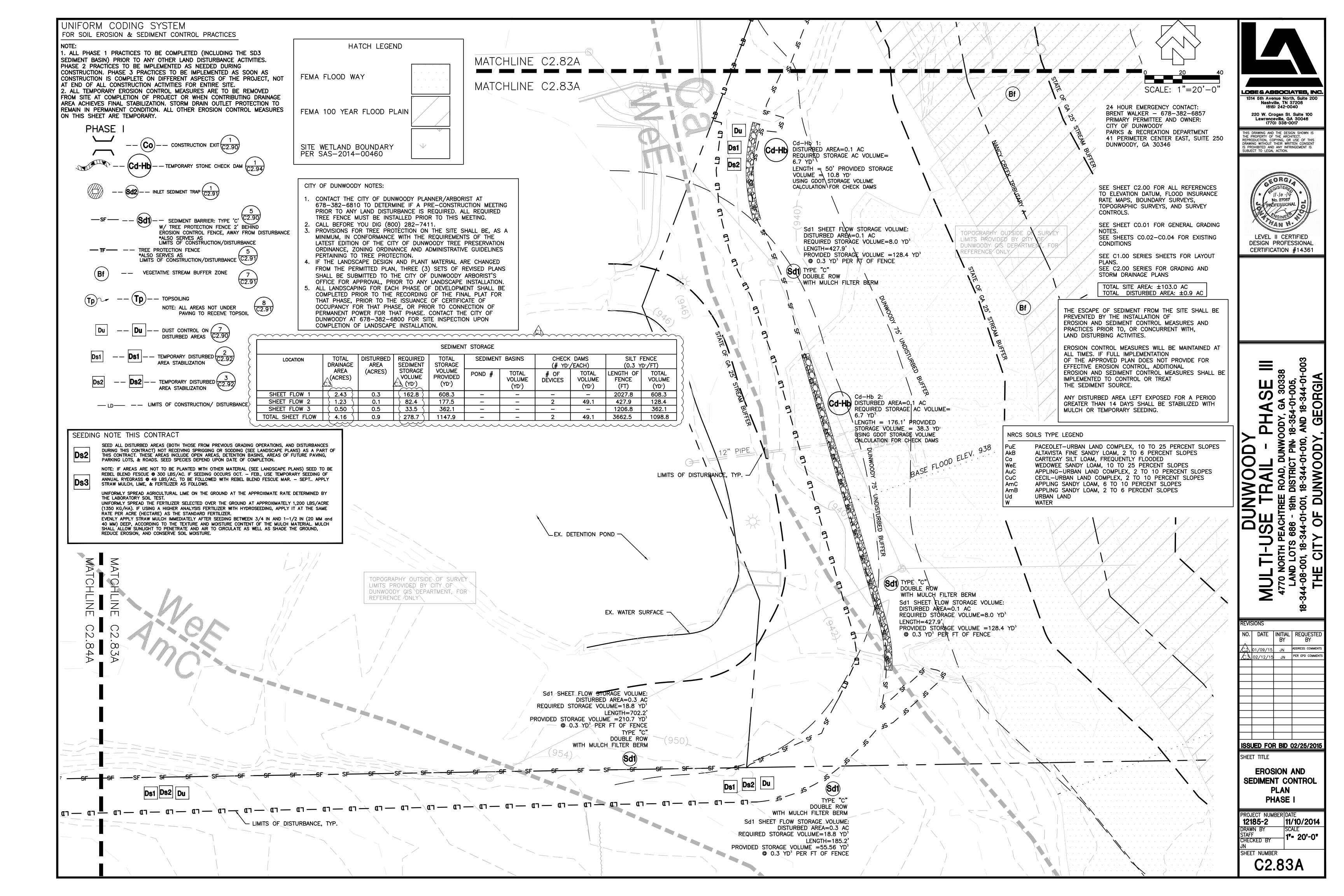
DATE

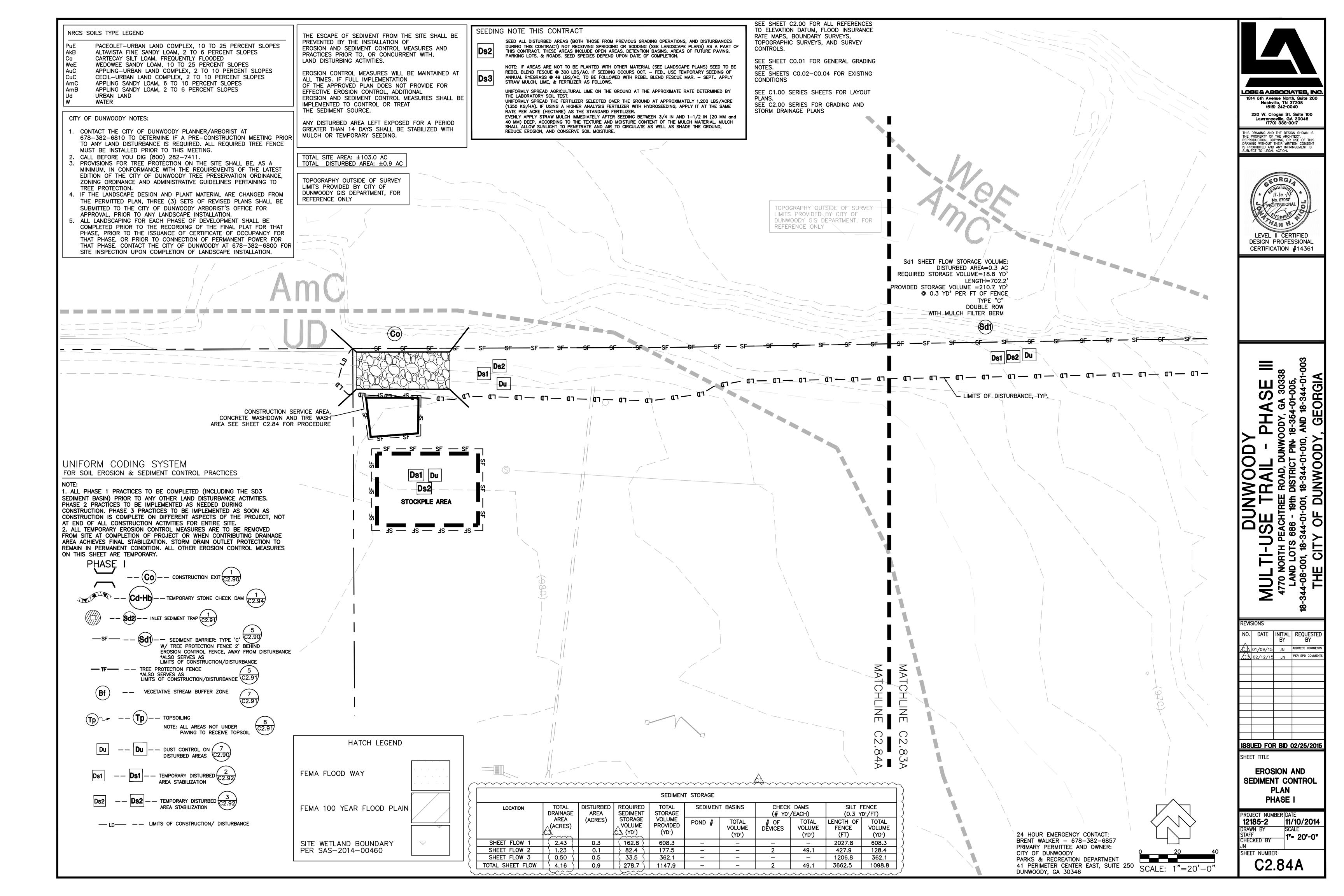
11/10/2014

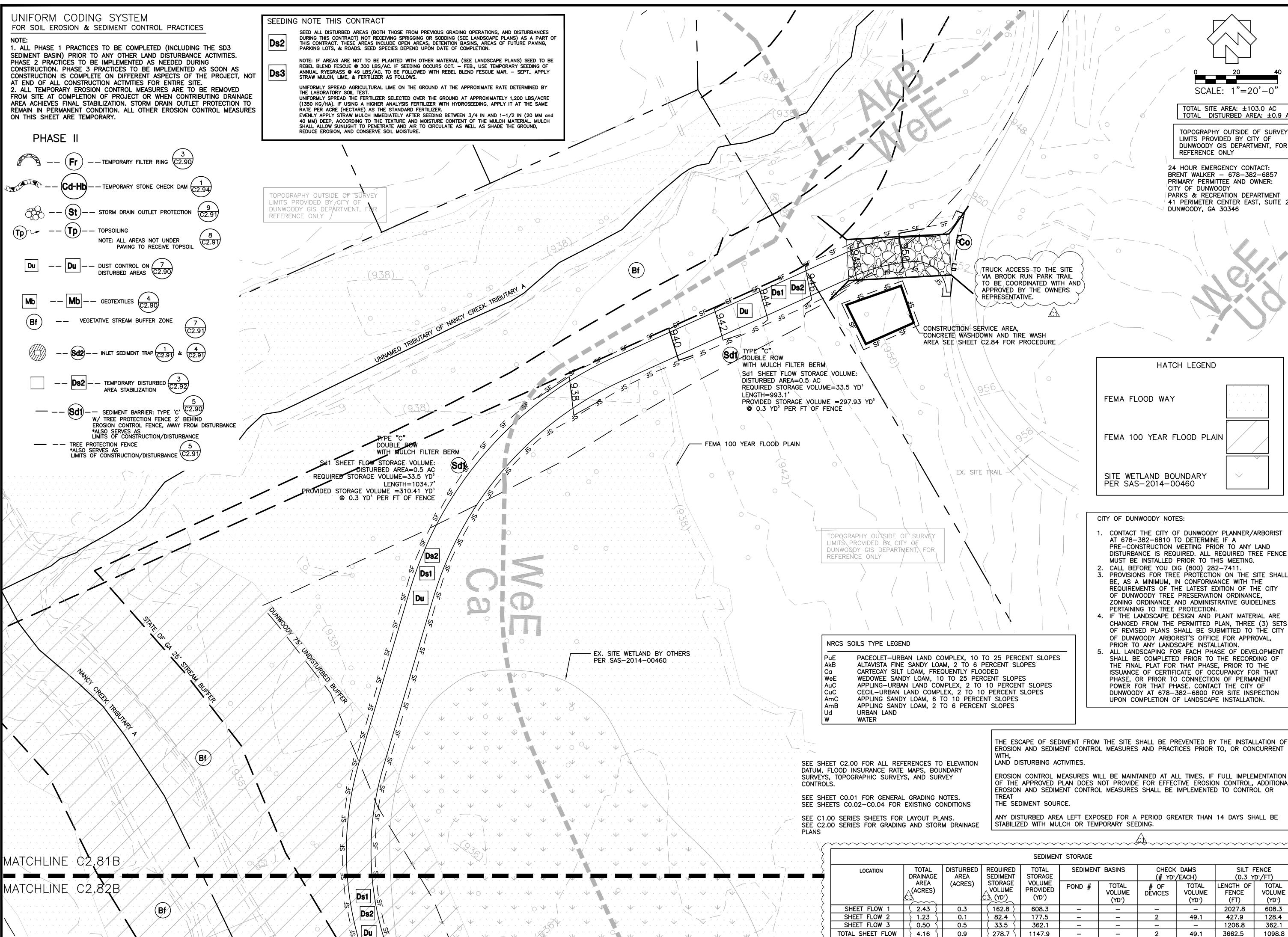
SCALE

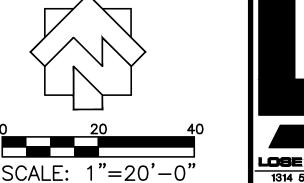
1*- 20'-0*

C2.82A









TOTAL SITE AREA: ±103.0 AC

TOTAL DISTURBED AREA: ±0.9 AC

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

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



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

THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF THIS
DRAWING WITHOUT THEIR WRITTEN CONSENT
IS PROHIBITED AND ANY INFRINGEMENT IS
SUBJECT TO LEGAL ACTION.



LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION #14361

FEMA 100 YEAR FLOOD PLAIN

HATCH LEGEND

SITE WETLAND BOUNDARY PER SAS-2014-00460

- 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 MEETING.
- CALL BEFORE YOU DIG (800) 282-7411. PROVISIONS FOR TREE PROTÉCTION ON THE SITE SHALI BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF DUNWOODY TREE PRESERVATION ORDINANCE, ZONING ORDINANCE AND ADMINISTRATIVE GUIDELINES
- PERTAINING TO TREE PROTECTION. 4. IF THE LANDSCAPE DESIGN AND PLANT MATERIAL ARE CHANGED FROM THE PERMITTED PLAN, THREE (3) SETS OF REVISED PLANS SHALL BE SUBMITTED TO THE CITY OF DUNWOODY ARBORIST'S OFFICE FOR APPROVAL, PRIOR TO ANY LANDSCAPE INSTALLATION.
- ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY OF DUNWOODY AT 678-382-6800 FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.

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

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

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

CHECK DAMS SILT FENCE (# YD³/EACH)  $(0.3 \text{ YD}^3/\text{FT})$ LENGTH OF TOTAL TOTAL # OF VOLUME **FENCE** VOLUME DËVICES (YD³) (YD³) (FT) 608.3 427.9 49.1 128.4 1206.8 362.1 3662.5 49.1 1098.8

<u> ISSUED FOR BID 02/25/2015</u>

70 NC AND 08-00

| NO.| Date | Initial | Requeste

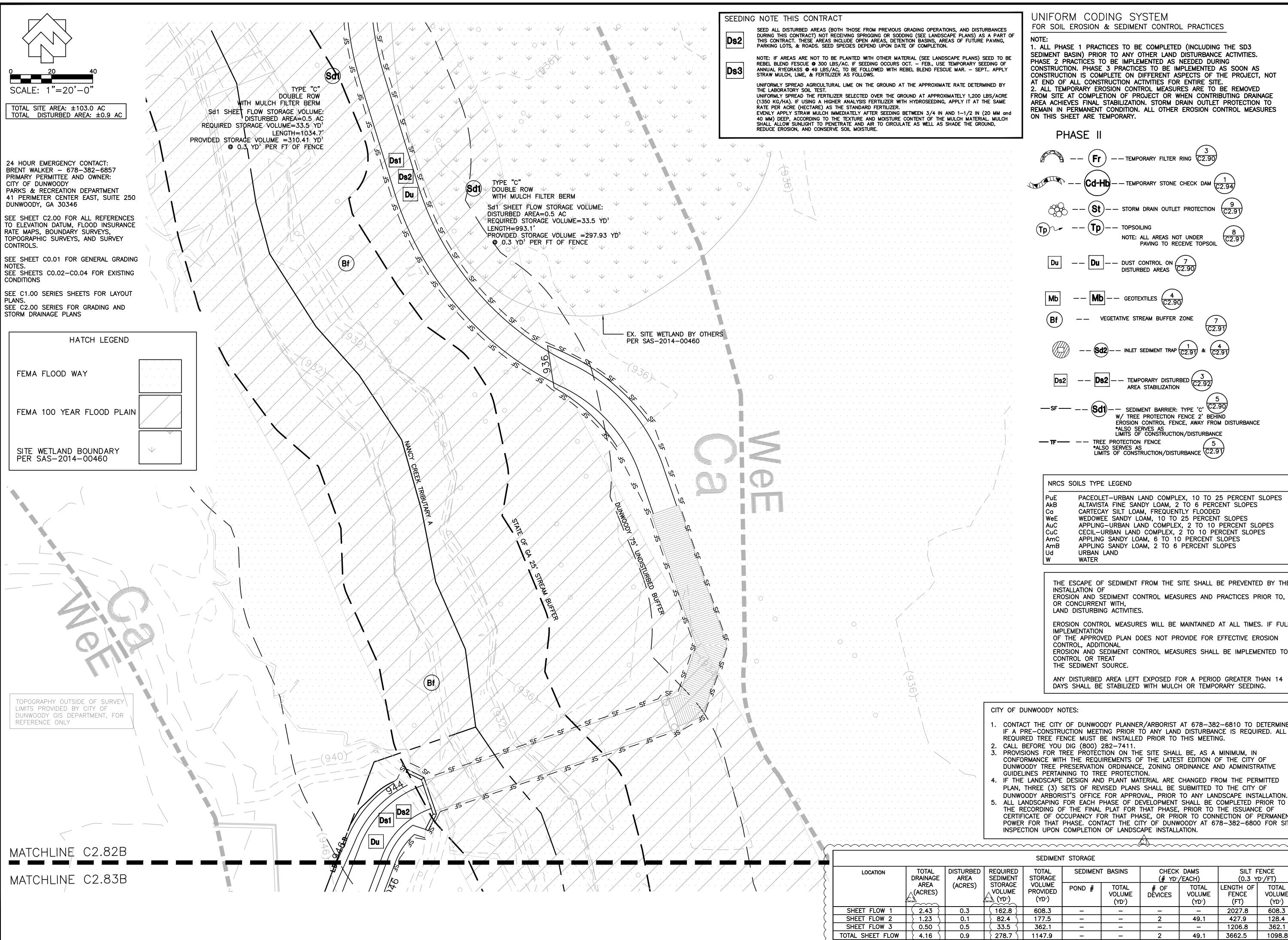
01/09/15 JN ADDRESS COMME

SHEET TITLE **EROSION AND** 

SEDIMENT CONTROL **PLAN** PHASE II

ROJECT NUMBER|DATE 12185-2 11/10/2014 DRAWN B 1"= 20'-0" ET NUMBER

C2.81B

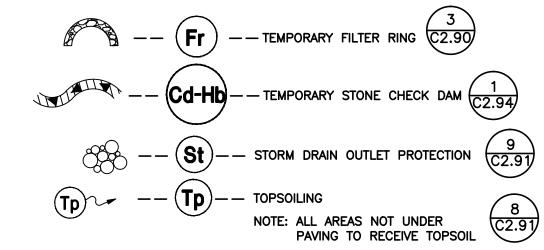


UNIFORM CODING SYSTEM

FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES

1. ALL PHASE 1 PRACTICES TO BE COMPLETED (INCLUDING THE SD3 SEDIMENT BASIN) PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES. PHASE 2 PRACTÍCES TO BE IMPLEMENTED AS NEEDED DURING CONSTRUCTION. PHASE 3 PRACTICES TO BE IMPLEMENTED AS SOON AS CONSTRUCTION IS COMPLETE ON DIFFERENT ASPECTS OF THE PROJECT, NOT AT END OF ALL CONSTRUCTION ACTIVITIES FOR ENTIRE SITE. 2. ALL TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED FROM SITE AT COMPLETION OF PROJECT OR WHEN CONTRIBUTING DRAINAGE AREA ACHIEVES FINAL STABILIZATION. STORM DRAIN OUTLET PROTECTION TO REMAIN IN PERMANENT CONDITION. ALL OTHER EROSION CONTROL MEASURES ON THIS SHEET ARE TEMPORARY.

#### PHASE II



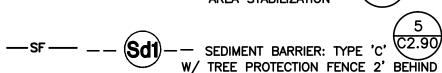












EROSION CONTROL FENCE, AWAY FROM DISTURBANCE

## **── TF ── ─ ─** TREE PROTECTION FENCE *ALSO SERVES AS LIMITS OF CONSTRUCTION/DISTURBANCE C2.91

NRCS SOILS TYPE LEGEND

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 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 APPLING SANDY LOAM, 2 TO 6 PERCENT SLOPES URBAN LAND WATER

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.

- 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 MEETING.
- CALL BEFORE YOU DIG (800) 282-7411. PROVISIONS FOR TREE PROTÉCTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF DUNWOODY TREE PRESERVATION ORDINANCE, ZONING ORDINANCE AND ADMINISTRATIVE
- GUIDELINES PERTAINING TO TREE PROTECTION. IF THE LANDSCAPE DESIGN AND PLANT MATERIAL ARE CHANGED FROM THE PERMITTED PLAN, THREE (3) SETS OF REVISED PLANS SHALL BE SUBMITTED TO THE CITY OF
- DUNWOODY ARBORIST'S OFFICE FOR APPROVAL, PRIOR TO ANY LANDSCAPE INSTALLATION. ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY OF DUNWOODY AT 678-382-6800 FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.

				SEDIMEN	T STORAGE					
LOCATION	TOTAL DRAINAGE	DISTURBED AREA	REQUIRED SEDIMENT	TOTAL STORAGE	SEDIMEN	T BASINS	CHECK (# YD)		SILT F (0.3 YI	
	AREA (ACRES)	(ACRES)	STORAGE VOLUME	VOLUME PROVIDED (YD³)	POND #	TOTAL VOLUME (YD³)	# OF DEVICES	TOTAL VOLUME (YD³)	LENGTH OF FENCE (FT)	TOTAL VOLUME (YD³)
SHEET FLOW 1	2.43	0.3	<b>\ 162.8</b> \	608.3	1	_	-	1	2027.8	608.3
SHEET FLOW 2	<b>1.23</b>	0.1	82.4	177.5	1	-	2	49.1	427.9	128.4
SHEET FLOW 3	<b>(</b> 0.50 <b>(</b>	0.5	33.5	362.1	-	_	-	ı	1206.8	362.1
TOTAL SHEET FLOW	4 16	٥٥	278 7	11470	_		2	<b>40</b> 1	3662.5	1008.8



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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



CERTIFICATION #14361

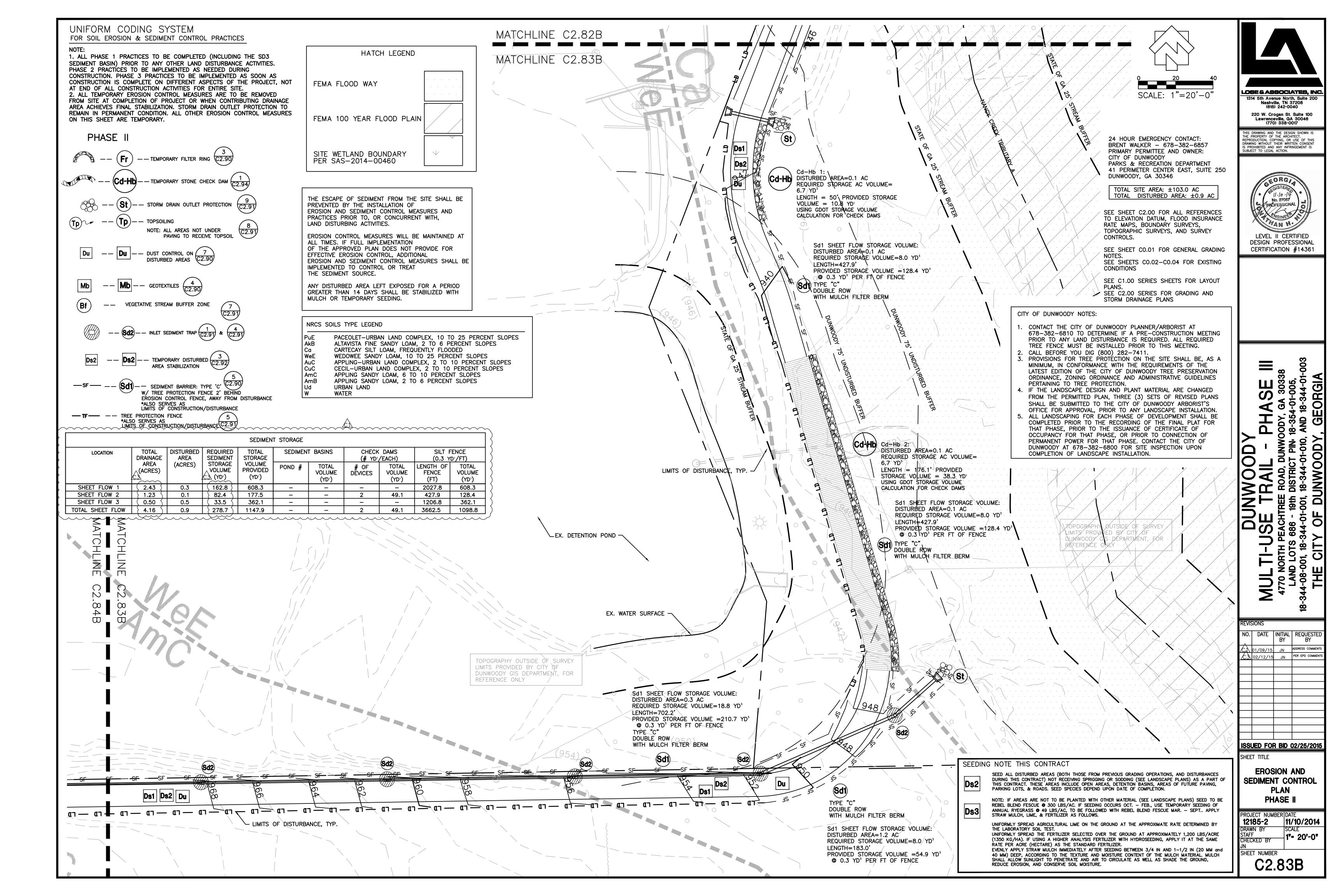
REVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTED BY
C,	01/09/15	JN	ADDRESS COMMENTS
Æ3\	02/12/15	JN	PER EPD COMMENTS

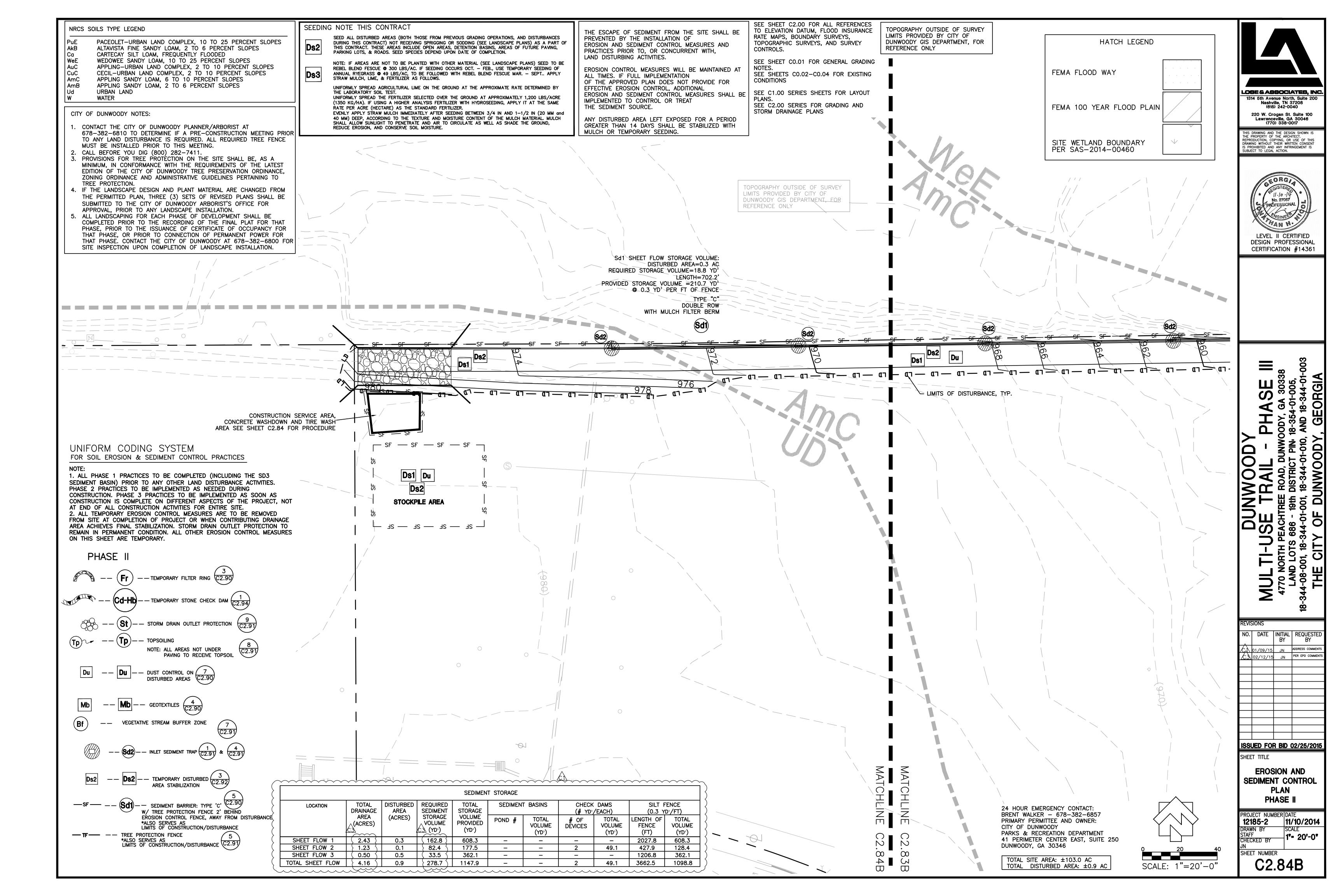
<u>ISSUED FOR BID 02/25/2015</u>

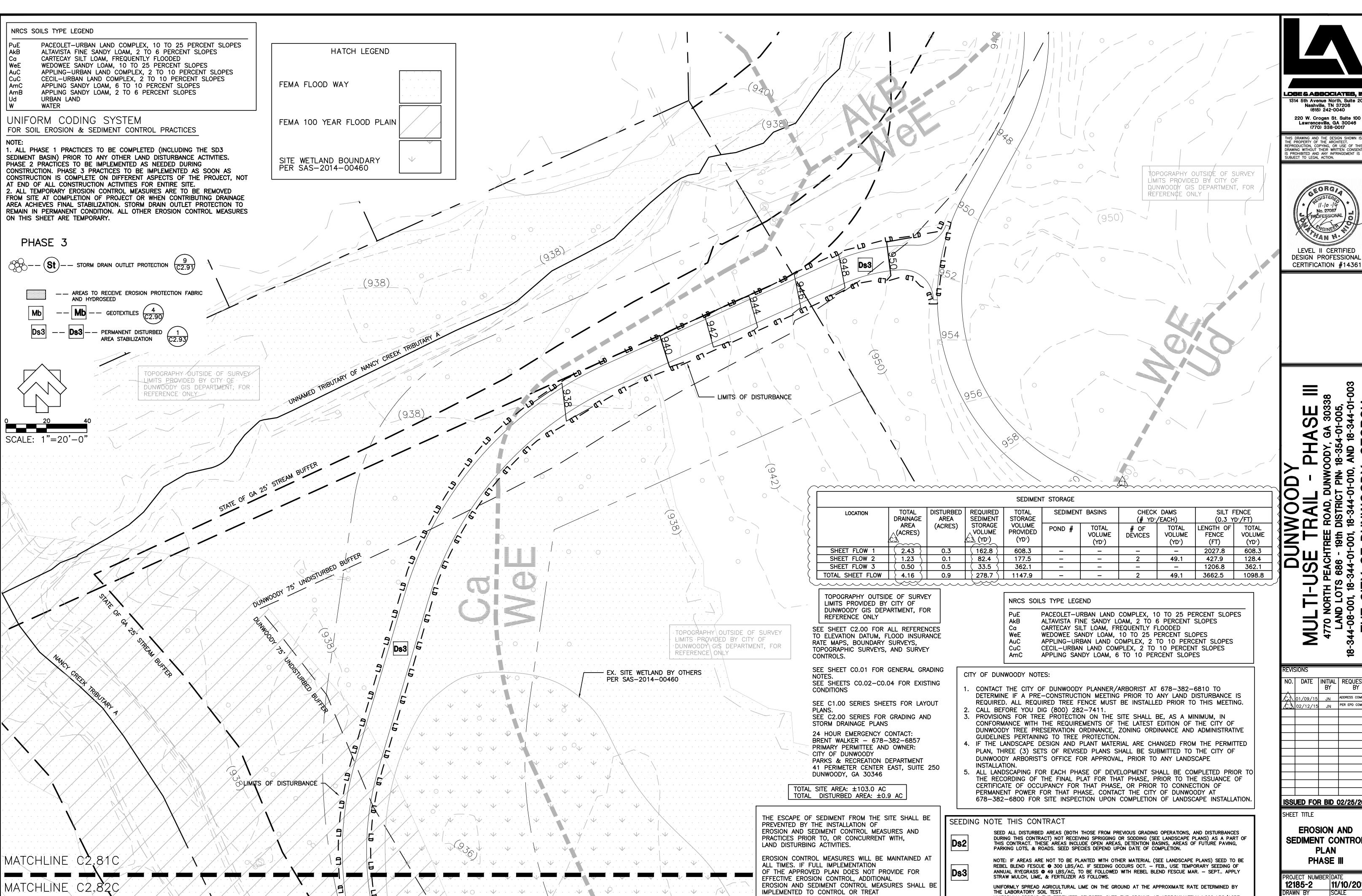
SHEET TITLE **EROSION AND** SEDIMENT CONTROL **PLAN** PHASE II

PROJECT NUMBER DATE 12185-2 | 11/10/2014 **⊣1"- 20'-0"** 

SHEET NUMBER







IMPLEMENTED TO CONTROL OR TREAT

MULCH OR TEMPORARY SEEDING.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD

GREATER THAN 14 DAYS SHALL BE STABILIZED WITH

THE SEDIMENT SOURCE.

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



LEVEL II CERTIFIED **DESIGN PROFESSIONAL** 

NO. DATE | INITIAL | REQUESTE

AND 08-0

<u>ISSUED FOR BID 02/25/2015</u>

SHEET TITLE **EROSION AND** 

SEDIMENT CONTROL **PLAN** PHASE III

ROJECT NUMBER DATE 12185-2 DRAWN BY **∤1"= 20'-0"** 

SHEET NUMBER C2.81C

UNIFORMLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1,200 LBS/ACRE

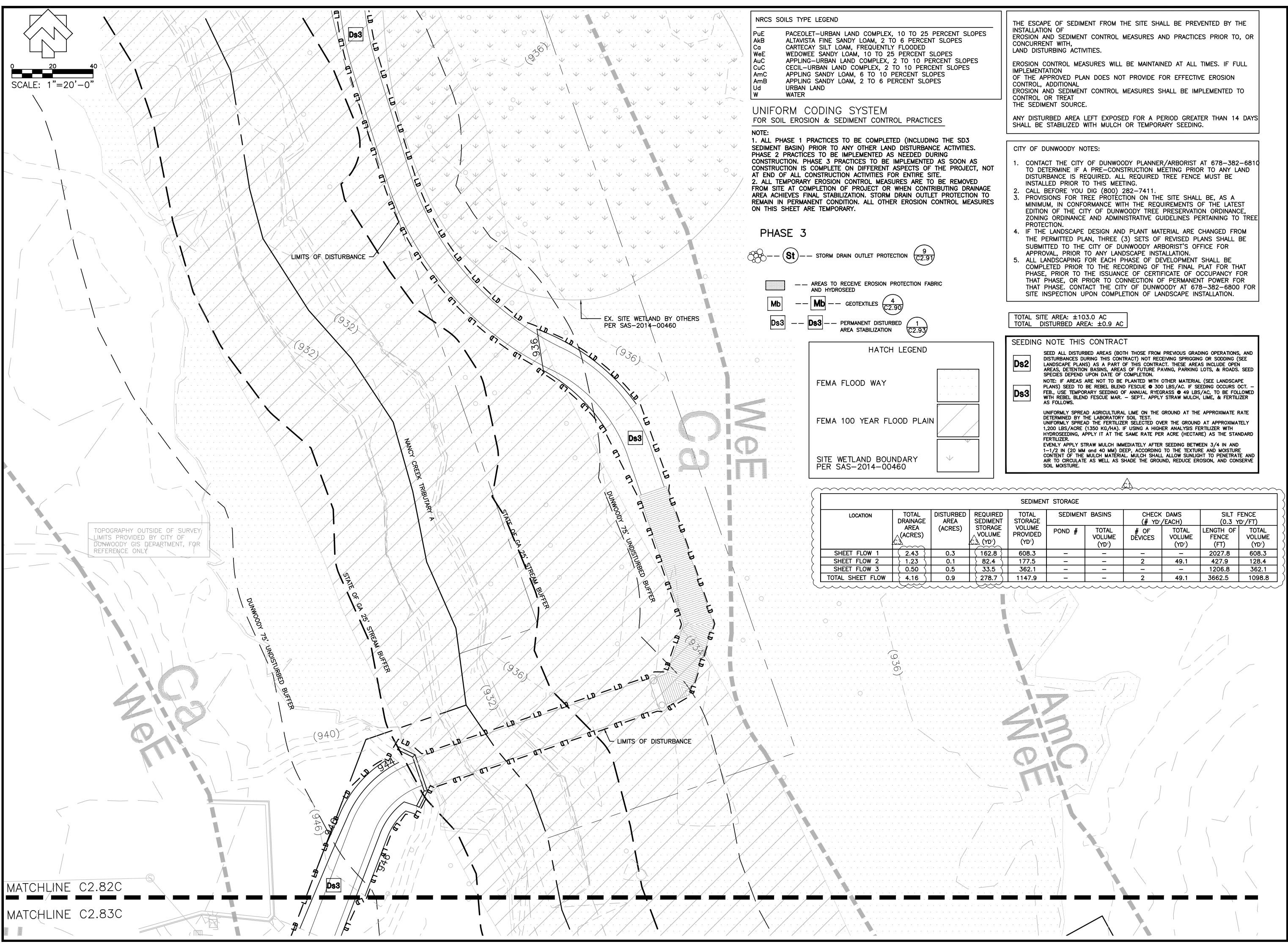
(1350 KG/HA). IF USING A HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME

EVENLY APPLY STRAW MULCH IMMEDIATELY AFTER SEEDING BETWEEN 3/4 IN AND 1-1/2 IN (20 MM and

40 MM) DEEP, ACCORDING TO THE TEXTURE AND MOISTURE CONTENT OF THE MULCH MATERIAL. MULCH SHALL ALLOW SUNLIGHT TO PENETRATE AND AIR TO CIRCULATE AS WELL AS SHADE THE GROUND,

RATE PER ACRE (HECTARE) AS THE STANDARD FERTILIZER.

REDUCE EROSION, AND CONSERVE SOIL MOISTURE.



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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



DESIGN PROFESSIONAL
CERTIFICATION #14361

DUNWOODY 1-USE TRAIL - PHASE RTH PEACHTREE ROAD, DUNWOODY, GA 30338 OTS 686 - 19th DISTRICT PIN: 18-354-01-005,

VISIONS

D. DATE INITIAL REQUESTED BY

01/09/15 JN ADDRESS COMMENTS

02/12/15 JN PER EPD COMMENTS

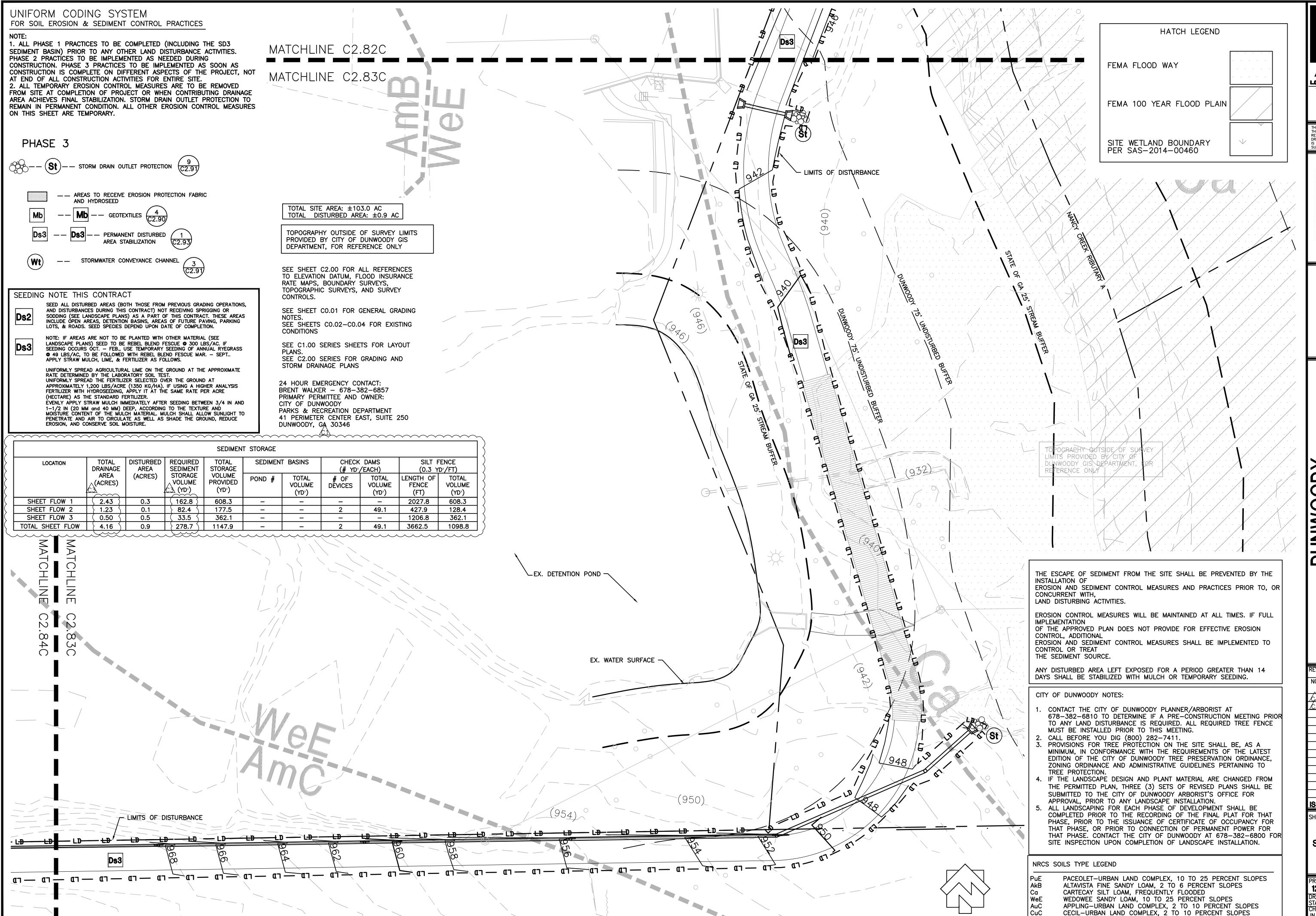
ISSUED FOR BID 02/25/2015
SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE III

PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY SCALE
STAFF
CHECKED BY 1"- 20'-0"

JN SHEET NUMBER

C2.82C



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

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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.

LEVEL II CERTIFIED DESIGN PROFESSIONAL

DESIGN PROFESSIONAL
CERTIFICATION #14361

0 NORTH PEACHTREE ROAD, DUNWOODY, GA AND LOTS 686 - 19th DISTRICT PIN: 18-354-01 08-001, 18-344-01-001, 18-344-01-010, AND 18-3

REVISIONS

NO. DATE INITIAL REQUESTED BY

O1/09/15 JN ADDRESS COMMENTS

O2/12/15 JN PER EPD COMMENTS

ISSUED FOR BID 02/25/2015

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE III

PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY
STAFF
CHECKED BY
JN

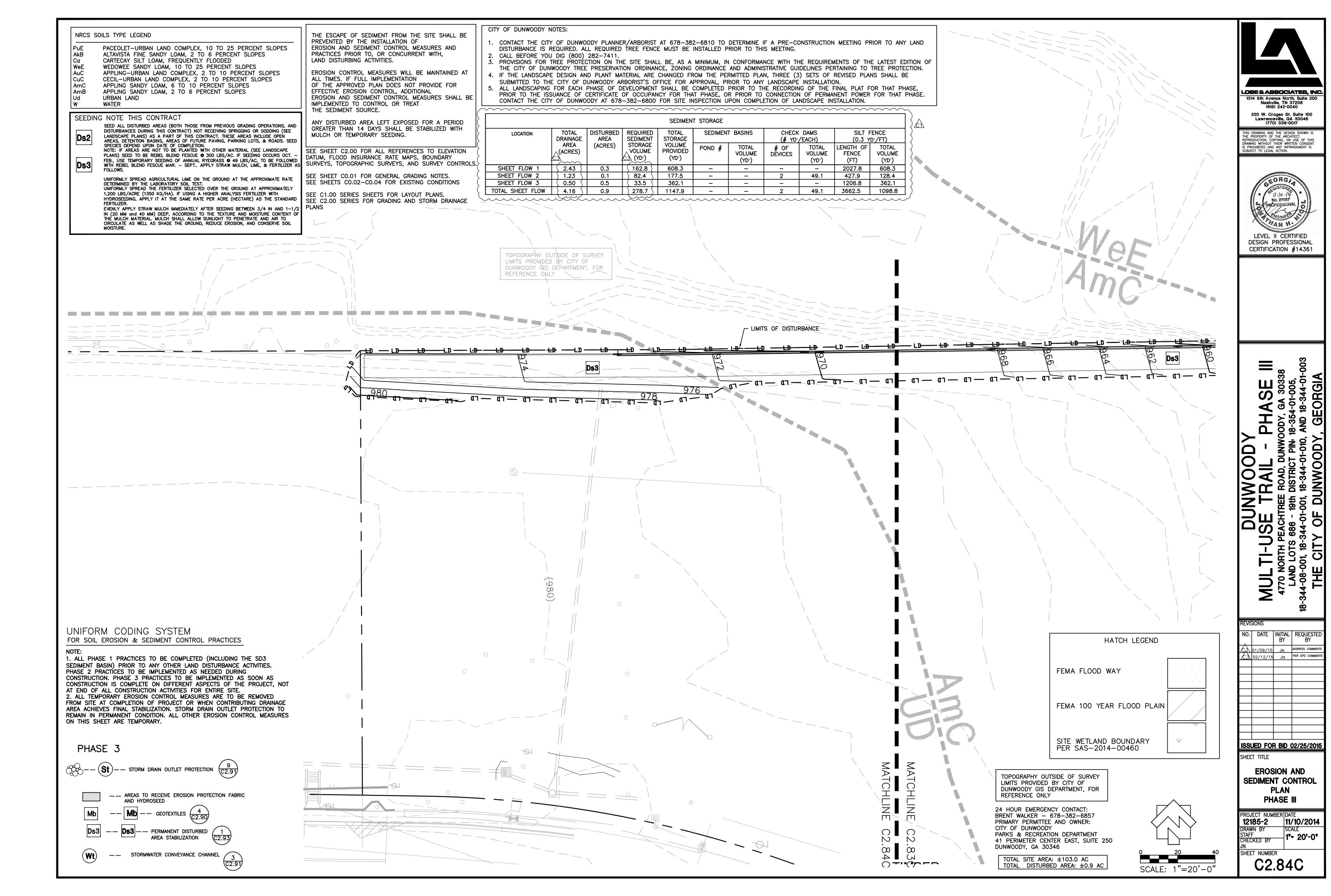
C2.83C

APPLING SANDY LOAM, 6 TO 10 PERCENT SLOPES

APPLING SANDY LOAM, 2 TO 6 PERCENT SLOPES

URBAN LAND

WATER



PRIOR TO THE LAND DISTURBING CONSTRUCTION THE CONTRACTOR SHALL SCHEDULE A PRE—CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS.
THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO 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 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. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING 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 CONDITIONS EXIST IN THE FIELD THAT WARRANT CONSTRUCTION OF ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. 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

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLANS AS ACCESS IS

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT

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

ALL 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 NOTES

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

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO 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 "C" 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 ½ 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"

DAYS OF LAND DISTURBANCE.

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

TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS SEE 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

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

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

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

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7

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 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.

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 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 100-YEAR FLOODPLAIN PER FEMA FIRM PANEL 13089C0016 H EFFECTIVE DATE MAY 16, 2013

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.

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, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. 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

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

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

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 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 CURRS

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

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



DESIGN PROFESSIONAL

GA REGISTRATION # 27087
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION#0000014361

## 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. <u>GAR 100002</u>. 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.1.4.c

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

D. IRRIGATION DRAINAGE
E. AIR CONDITIONING CONDENSATE

F. SPRINGS
G. UNCONTAMINATED GROUND WATER

G. UNCONTAMINATED GROUND WATER
H.FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT
CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

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 OR THE NATIONAL RESPONSE CENTER (NRC) AT (800) 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.

# PRIMARY PERMITTEE'S (OWNER/OPERATOR) CERTIFICATION

(1) "I CERTIFY THAT THE EROSION CONTROL PLAN HAS BEEN PREPARED IN ACCORDANCE WITH PART IV OF THE GENERAL NDPES PERMIT GAR 100002. THE PLAN WILL BE IMPLEMENTED, AND THAT SUCH PLANS WILL PROVIDE FOR COMPLIANCE WITH THIS PERMIT."

(2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

PRIMARY PERMITTEE (OWNER/OPERATOR)

11/10/14 DATE GENERAL NOTE

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

2. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE 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:

A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL

B. ROUGHENING THE SOIL TO PRODUCE RIDGES
PERPENDICULAR TO THE PREVAILING WIND
C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS

D. PROVIDING GRAVEL OR PAVING AT ENTRANCE / EXIT

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."

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."

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

10. THIS SITE DOES LIE WITHIN A FLOODPLAIN.

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. SURVEYED WETLANDS ARE WITHIN THE LIMITS OF THIS PROJECT.

14. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ONSITE INSPECTOR

15. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY

16. 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.

17. 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.

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

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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



DESIGN PROFESSIONAL CERTIFICATION#14361

-USE TRAIL - PHAS
TH PEACHTREE ROAD, DUNWOODY, GA 3
TS 686 - 19th DISTRICT PIN: 18-354-01-01

REVISIONS

NO. DATE INITIAL REQUESTED BY

SHEET TITLE

EROSION CONTROL

NOTES

PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY SCALE
CHECKED BY N/A

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

#### 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 TREATED BY TEMPORARY EROSION CONTROL MEASURES.

#### **ZONING:**

THIS SITE IS ZONED FOR A MUNICIPAL PARK

#### **SURVEY INFORMATION:**

IGIS DEPARTMENT.

THERE IS FEMA FLOODPLAIN ZONE AE ON THIS PROPERTY PER FLOOD INSURANCE RATE MAPS, COMMUNITY NUMBER 13089C0016H, DATED MAY 16.

- RUNOFF COEFFICIENT WEIGHTED PRE CONSTRUCTION ON CURVE NUMBER: ⟨ 73 ⟩ €≥ • WEIGHTED POST CONSTRUCTION ON CURVE NUMBER: \ 73
- SEE "STORMWATER MANAGEMENT STUDY FOR DUNWOODY MULTI-USE TRAIL PHASE III" DATED NOVEMBER 2014 FOR ADDITIONAL INFORMATION.

#### SOIL TYPES

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 NANCY CREEK TRIBUTARY A.

#### **CONTROLS**

#### EROSION AND SEDIMENT CONTROLS

ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE DISCHARGING INTO STORM WATER RUNOFF. PRIOR TO ANY LAND DISTURBING ACTIVITIES.

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

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

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

PLEASE REFER TO DETAIL SHEETS FOR THE LAND DISTURBANCE CONSTRUCTION SCHEDULE AND TEMPORARY AND PERMANENT 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 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 BOUNDARY AND TOPOGRAPHIC INFORMATION: PROVIDED BY CITY OF DUNWOODY IMPLEMENTED. SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, 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. I. 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

QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB. 2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL WHERE POSSIBLE.

3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND 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 MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

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

#### SOIL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY
- POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE
- AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES BUT IS NOT LIMITED TO BROOMS, DUSTPANS. MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER, 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** 

MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS

### **MAINTENANCE**

THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FORM THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". 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 EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY 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.

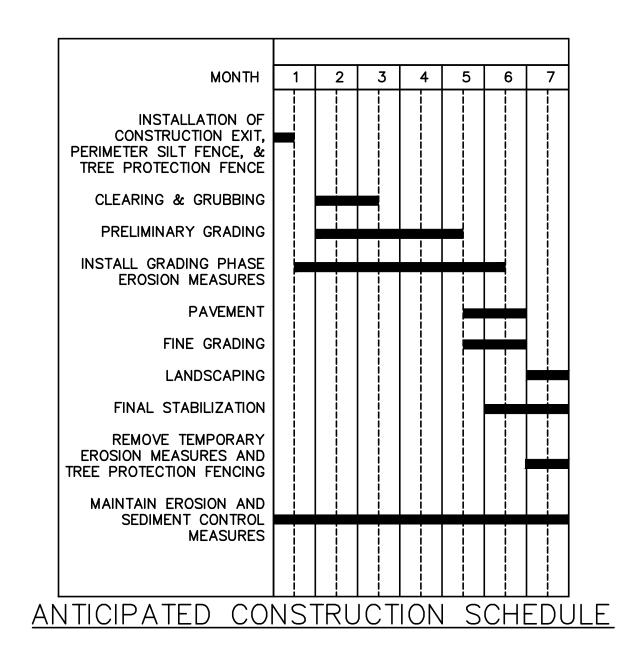
WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

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

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Project Name: Dunwoody Multi-Use Trail - Phase III_____ Address: 4770 Peachtree Road_ City/County: Dunwoody/DeKalb_ Date on Plans: 11/10/2014 Plan Included TO BE SHOWN ON ES&PC PLAN Y/N C2.86 Y 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) C2.80 Y 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed) 3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls, 4 Provide the name, address and phone number of primary permittee. 5 Note total and disturbed acreage of the project or phase under construction. 6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in 7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. C2.86 8 Description of the nature of construction activity. 9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. C2.80 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected. 11 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. 12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.* N/A 13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.* N/A 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5. within 7 days after installation."* 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits." 16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."* C2.85 Y 17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."* 18 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." 19 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." 20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." 21 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an 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.* 22 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 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.* 23 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.* 24 Provide BMPs for the remediation of all petroleum spills and leaks 25 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.* 26 Description of the practices that will be used to reduce the pollutants in storm water discharges.* 27 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). 28 Provide complete requirements of inspections and record keeping by the primary permittee.* N/A N/A 29 Provide complete requirements of sampling frequency and reporting of sampling results.* 30 Provide complete details for retention of records as per Part IV.F. of the permit.* N/A N/A 31 Description of analytical methods to be used to collect and analyze the samples from each location.* 32 Appendix B rationale for NTU values at all outfall sampling points where applicable.* N/A 33 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.* N/A 34 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single 35 Graphic scale and North arrow. 36 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 37 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. 38 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers equired by the Local Issuing Authority. Clearly note and delineate all areas of impact. C2.80 Y Y 39 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site. 40 Delineation and acreage of contributing drainage basins on the project site. C2.80 41 Delineate on-site drainage and off-site watersheds using USGS 1':2000' topographical sheets. C2.85 42 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are 43 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. C2.80 Y Y 44 Soil series for the project site and their delineation. 45 The limits of disturbance for each phase of construction. C2.80 Y 46 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 justfication explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasable, a written justification explaining this decision must be included in the plan. C2.80 Y 47 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. 48 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. 49 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia. *If using this checklist for a project that is less than 1 acre and not part of a common development

but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2015

LOSE & ASSOCIATES, INC 1314 5th Avenue North, Suite 20

220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017 THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF THIS
DRAWING WITHOUT THEIR WRITTEN CONSENT
IS PROHIBITED AND ANY INFRINGEMENT IS
SUBJECT TO LEGAL ACTION.



DESIGN PROFESSIONAL CERTIFICATION#14361

DA H P TS 70 NC AND 08-0

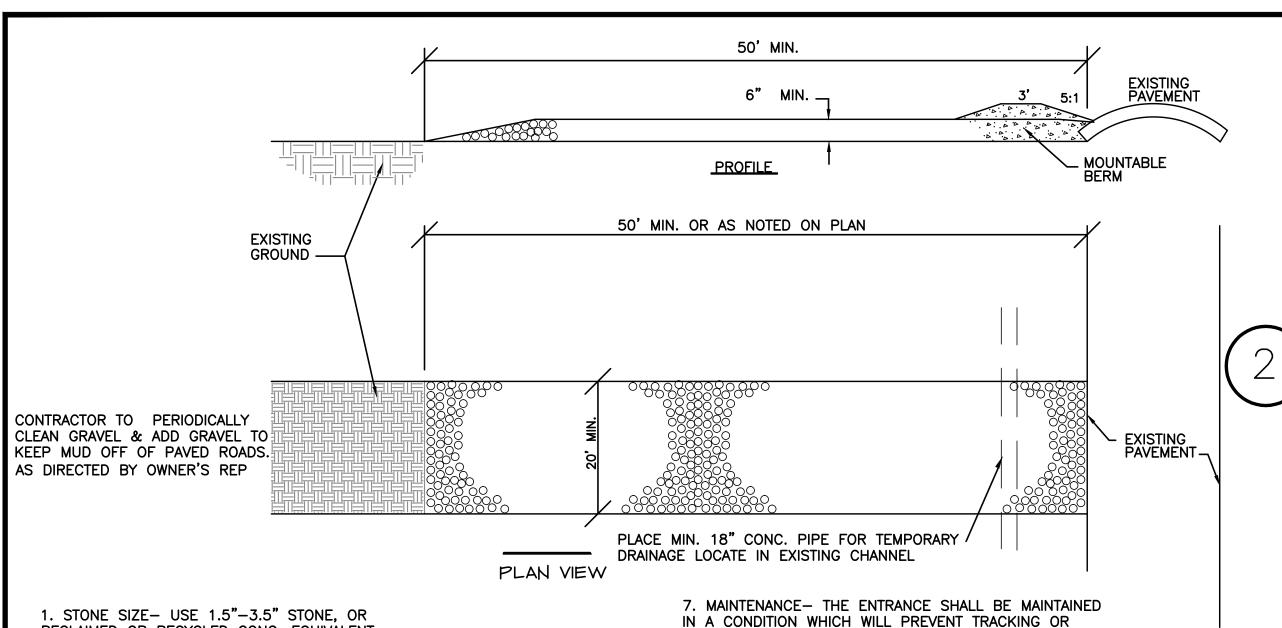
REVISIONS NO. | DATE | INITIAL | REQUESTE BY た入1_{01/28/15}| JN ADDRESS COMME <u>ISSUED FOR BID 02/25/2015</u>

SHEET TITLE **EROSION CONTROL NOTES AND** 

CHECKLISTS

PROJECT NUMBER DATE 12185-2 | 11/10/2014 DRAWN BY SCALE N/A CHECKED BY

SHEET NUMBER C2.86



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

PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED

AFTER EACH RAIN.

10. CONTRACTOR TO PAVE TEMPORARY ACCESS ROUTES

AS DIRECTED BY THE COUNTY REPRESENTATIVE.

IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL

DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

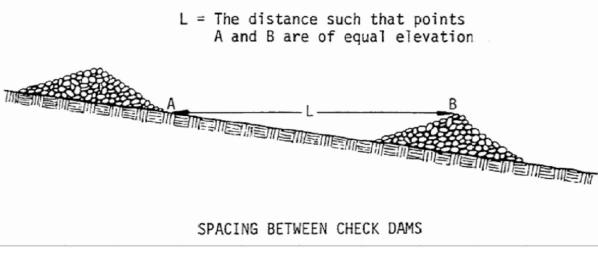
8. WASHING- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO

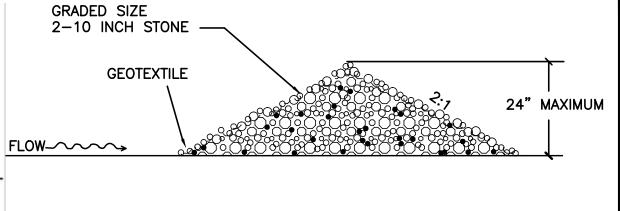
BE PROVIDED

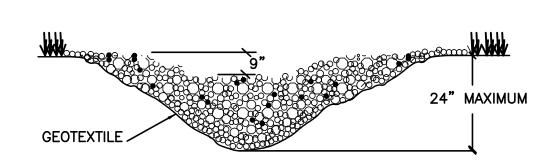
1. STONE SIZE- USE 1.5"-3.5" STONE, OR RECLAIMED OR RECYCLED CONC. EQUIVALENT.

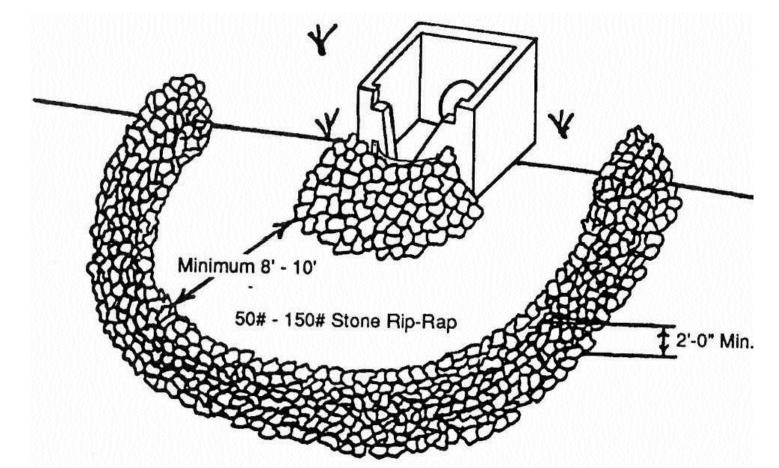
- 2. LENGTH- AS REQUIRED, BUT NOT LESS THAN 50'
- 3. THICKNESS- NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH- TWENTY (20) FOOT MIN., BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
- 5. GEOTEXTILE BARRIER TO BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. SURFACE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

Ridge width = # R (4 ft minimum) Top width = 4 ft GRASS Lining Normal Ground Level









CHECK DAM - Cd-S

Spray-On A		le 1. plication R	equirements
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		
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.

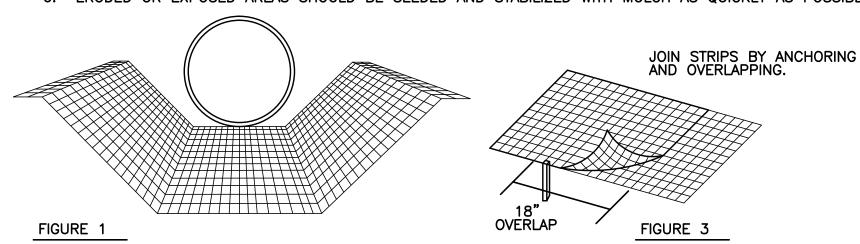
		POST SIZE Table 6-20.3	
	Minimum Length	Type of Post	Size of Post
Туре А	4'	Soft wood Oak Steel	3" dia. or 2x4 1.5" x 1.5" 1.3lb./ft. min.
уре В	3'	Soft wood Oak Steel	2" dia. or 2x2 1" x 1" .75lb./ft. min.
Туре С	4'	Steel	1.3lb./ft. min.

	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

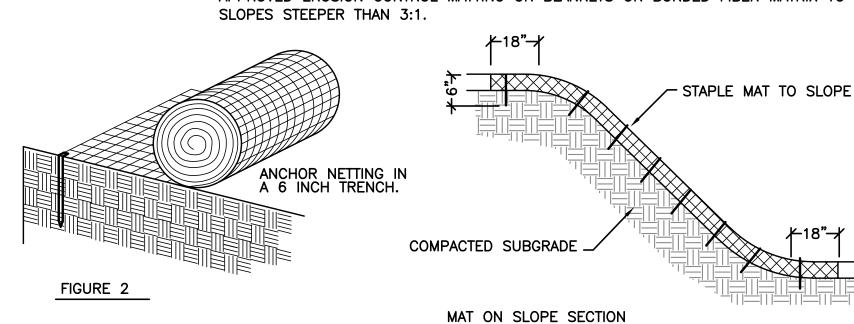
- 1. SEED (PER SPEC) BEFORE PLACEMENT OF MATTING. ROLL STRIPS OUT PARALLEL TO THE DIREC-TION OF WATER FLOW, OR DOWN SLOPE. (SEE FIGURE 1)
- 2. START LAYING THE NET FROM THE TOP OF THE CHANNEL OR SLOPE AND UNROLL IT DOWN THE GRADE. ALLOW MATTING TO LAY LOOSELY ON THE SOIL BUT WITHOUT WRINKLES- DO NOT
- 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.

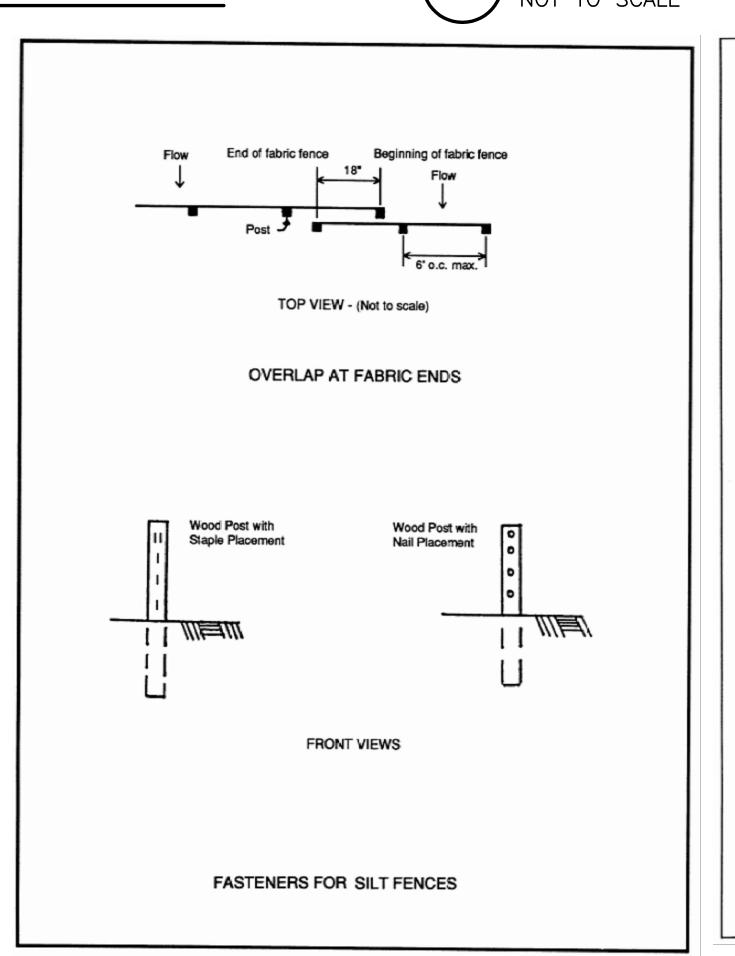


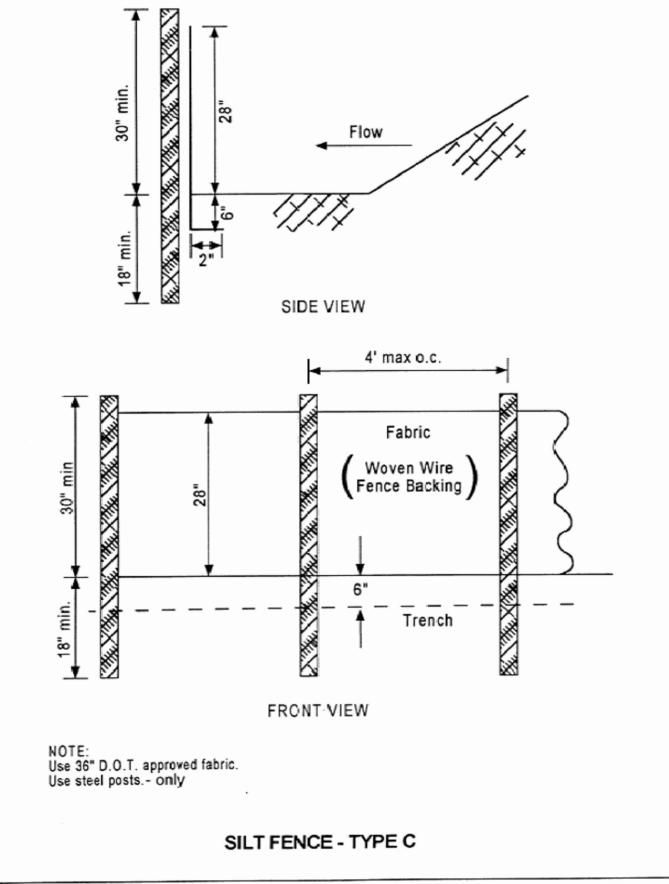
IN CHANNELS, ROLL OUT STRIPS OF NETTING PARALLEL TO THE

DIRECTION OF FLOW.

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







	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	s greater than 20%, a flat area										
length of 10 feet between the toe of the slope to the fence											

CONTROL MAT - Mb

SILT FENCE (TYPE C) Sd1-C should be provided.

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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



DESIGN PROFESSIONAL CERTIFICATION#14361

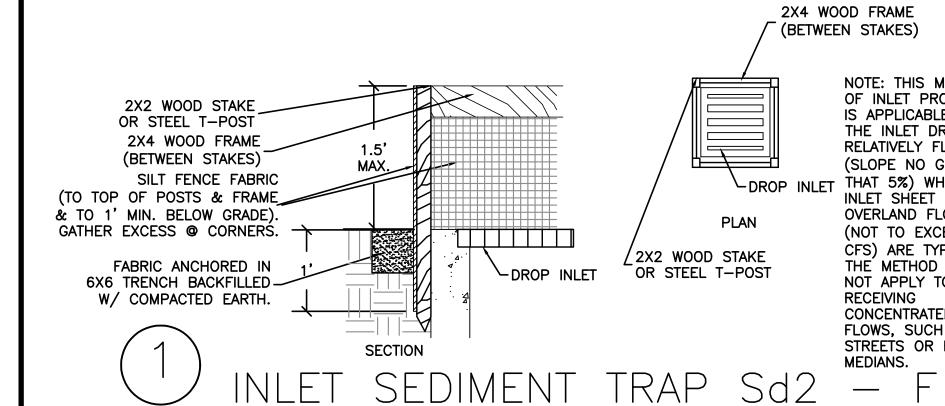
			<b>₩</b>
REVIS	IONS		
NO.	DATE	INITIAL BY	REQUESTEI BY
001		n DID (	00 /0E /004

SHEET TITLE DRAINAGE AND **EROSION CONTROL** 

**DETAILS** 

11/10/2014 12185-2

SHEET NUMBER C2.90

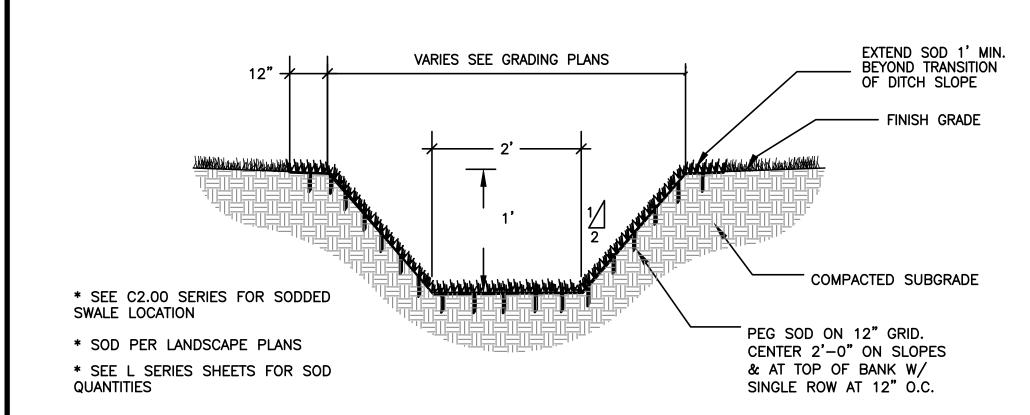


DROP INLET	NOTE: THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAT 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT TO EXCEED 1 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREETS OR HIGHWAY

2X4 WOOD FRAME

(BETWEEN STAKES)

EXCAVATED	INLET SE	DIMENT TRAI	<b>P</b>							
PROJECT:	Dunwoody	Trail PIII								
PROJECT #:	12185-2									
Outlet Structure	Drainage Area (AC)		Required Sediment Storage (CF)	Excavation Depth (FT)	Slope of Sides	Required Surface Area (SF)	Shape	Length (FT)	Width (FT)	Actual Surface Area (SF)
B-1	0.33	22.1	597	3.0	2:1	199	RECTANGULAR	20	10	199
B-2	0.47	31.5	850	3.0	2:1	283	RECTANGULAR	24	12	283
B-3	0.1	6.7	181	3.0	2:1	60	RECTANGULAR	11	5	60
B-4	0.4	26.8	724	3.0	2:1	241	RECTANGULAR	22	11	241
B-5	0.22	14.7	398	3.0	2:1	133	RECTANGULAR	16	8	133
B-6	0.23	15.4	416	3.0	2:1	139	RECTANGULAR	17	8	139
B-7	0.23	15.4	416	3.0	2:1	139	RECTANGULAR	17	8	139



## GRASSED SWALE - VEG. C NOT TO SCALE

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

SECTION VIEW

PLAN VIEW

VARIES

FENCE POST OR-METAL FENCE POSTT

*LIMITS OF GRADING AT DRIPLINE OF TREES

*PROTECTIVE FENCING TO PRESERVE TRUNK, BRANCHES, & ROOT SYSTEM.

**FENCE** 

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

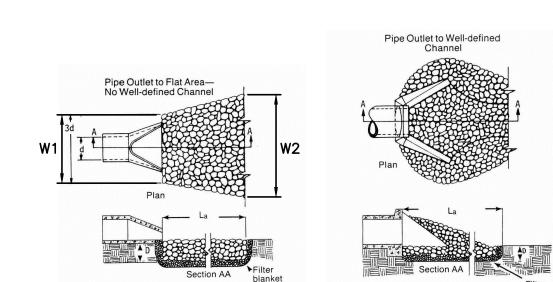
*NO FENCING TO BE NAILED TO TREE.

*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.

OUTLET RIP	-RAP PAD	CALCULATIO	ONS													
PROJECT:	Dunwoody	Multi-Use Tra	il PIII	RAINFALL	DATA:		City of Duny	voody, GA								
PROJECT #:				DESIGN ST			25 year	,								
Outlet	Pipe Dia.	Discharge	Capacity	Depth			Pipe	Velocity	Froude	D ₅₀	La (Min TW)	W ₁	W ₂	D _{max}	Thickness	Other
Structure	(in)	(cfs)	(cfs)	(in)	Manning's	n	Slope (%)	(ft/s)	Number	(in)	(ft)	(ft)	(ft)	(in)	(in)	
<b>A-2</b>	18	2.70	18.80	4.51	0.012		2.76%	2.80	0.80	6	9	5	11	9	14	NONE
3-8	18	19.90	24.40	12.47	0.012		1.00%	9.70	1.68	6	32	5	34	9	14	NONE



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.

STORM DRAIN OUTLET PROTECTION

WITH TEMPORARY SEEDING: 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

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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



DESIGN PROFESSIONAL CERTIFICATION#14361

> **=** _{\omega}

			<u> </u>
REVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTED BY
ISSI	JED FOI	R BID (	02/25/2015

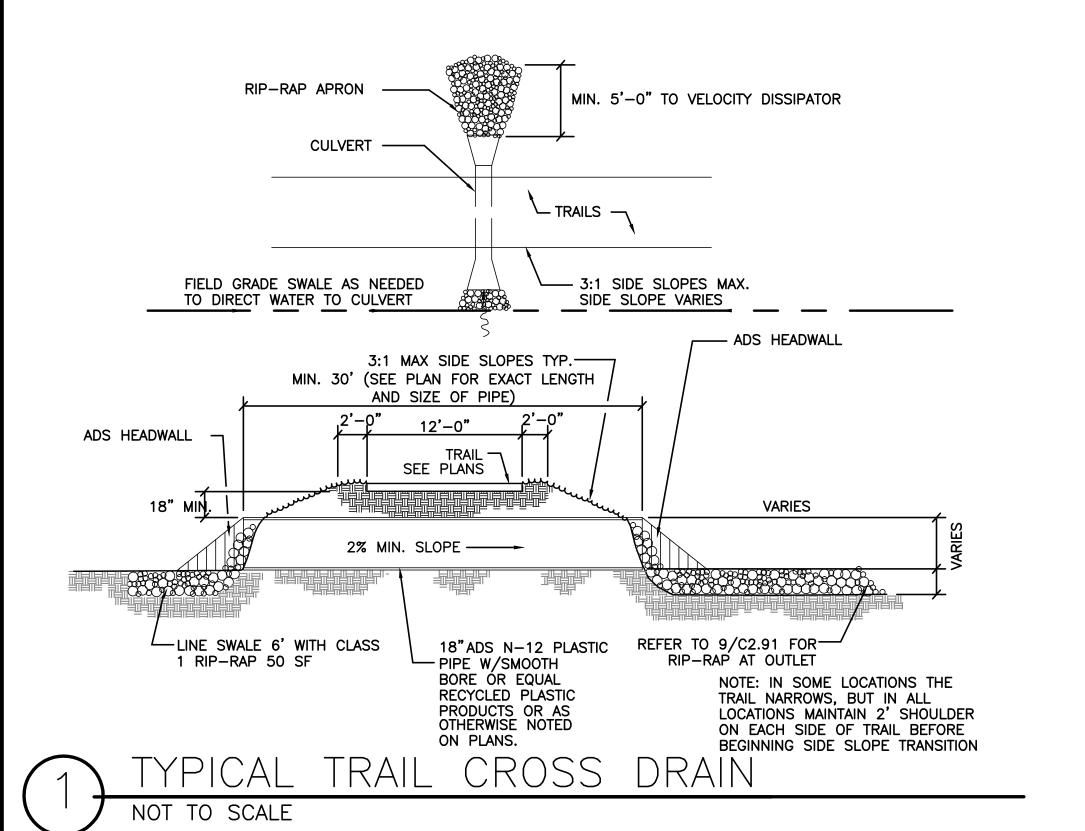
SHEET TITLE

DRAINAGE AND **EROSION CONTROL DETAILS** 

12185-2 11/10/2014 SCALE STAFF CHECKED BY

SHEET NUMBER C2.91

PROTECTION FENCING



## **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

1. Grade to permit the use of equipment for applying and anchoring mulch. 2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces

and sediment barriers. 3. Loosen compact soil to a minimum depth of 3 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.

#### **Applying Mulch**

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed

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

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,

## 4. Apply polyethylene film on exposed areas.

Major Land Resource Areas (MLRA) of Georgia

Figure 6-4.1

WITH TEMPORARY SEEDING)

NOTE: APPLICATION RATES SHOWN ARE MINIMUMS.

OTHER PLANS MAY HAVE HIGHER APPLICATION RATES. IF

DISCREPANCIES OCCUR, USE HIGHER APPLICATION RATE.

Mountain, Blue Ridge, and Ridges and Valley

Black Lands, and Atlantic Coastal Flatwoods

Southern Coastal Plain, Sand Hills,

AREA STABILIZATION

Southern Piedmont

#### **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 appli-

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.

2. 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

3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

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

<u>Species</u>	Resource Area 4/	(S	Solid otted	line I lir	s in	dica indi	Re P te opcate s.)	<u>Remarks</u>								
				J	F	М	Α	М	J	J	Α	S	0	N	D	
BARLEY (Hordeum vulgare)			M-L P C								••••	—				
alone in mixtures	3 bu. (144 lbs.) 1/2 bu. (24 lbs.)	3.3 lb 0.6 lb.	· ·	J	F		A									14,000 seed per pound. Winterhardy. Use on productive soils.
LESPEDEZA, ANNUAL			M-L	- -		IVI	A	IVI	J	J	Α	5	0	Ν	D	
(Lespedeza striata)			P	ĺ		_										
alone	40 lbs.	0.9 lb.	O	""		<b> </b>										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	D	
LOVEGRASS, WEEPING (Eragrostis curvula)			M-L P C													1,500,000 seed per pound. M
alone	4 lbs.	0.1 lb.	C						••••	ĺ						with Sericea lespedeza.
in mixtures	2 lbs.	0.05 lb.														
MILLET, BROWNTOP			M-L	J	F	М	Α	М	J	J	Α	s	0	N	D	
(Panicum fasciculatum)			P C	ı				_	<del>- </del> -	****						137,000 seed per pound. Qu
alone	40 lbs.	0.9 lb.							1							dense cover. Will provide too much competition in mixtures
in mixtures	10 lbs.	0.2 lb.									-		l			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	dcast - PLS 3/ Per 1000 sq. ft.	Resource Area 4/ Planting Dates by Resource Areas Planting Dates  (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.)  J F M A M J J A S O N D									<u>Remarks</u>				
MILLET, PEARL (Pennesetum glaucum)			M-L	†	<u> </u>	101	^				<u>  ^</u>	3	U	IN		88,000 seed per pound. Quick
alone	50 lbs.	1.1 lb	P C					<u> </u>	1		ļ					dense cover. May reach 5 feet in height. Not recommended for
	30 lb3.			J	F	м	Α	М	J	J	Α	s	0	N	D	mixtures.
OATS (Avena sativa)			M-L P													
alone	4 bu.	2.9 lb.	C							i i						13,000 seed per pound. Use on productive soils. Not as
in mixtures	(128 lbs.) 1 bu. (32 lbs.)	0.7 lb.		J	F	М	A	м	J	J	A	s	0	N	D	winterhardy as rye or barley.
RYE (Secale cereale)			M-L	T										•••••		
•	0.6	0.0 11:	P C	ļ							•••					18,000 seed per pound. Quick cover. Drought tolerant and
alone	3 bu. (168 lbs.)	3.9 lb.														winterhardy.
in mixtures	1/2 bu. (28 lbs.)	0.6 lb.		J	F	М	A	м	J	J	A	s	0	Ν	D	
RYEGRASS, ANNUAL (Lolium temulentum)			M-L			ļ										
alone	40 !!	0.0 11:	P C													227,000 seed per pound. Dense
alone	40 lbs.	0.9 lb.		J	F	м	Α	М	J	J	Α	s	0	N	D	cover. Very competitive and is <u>not</u> 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>		dcast - PLS 3/ Per 1000 _sq. ft.	Resource Area 4/	(Se	olid tted	line: lin	oate s inc es nal c	dica indi	<u>P</u> te o _l 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 lbs.) 1/2 bu. (24 lbs.)	3.3 lb. 0.6 lb.	С	J	F	М	A	М	J	J	Α	S	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).

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

THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF THIS
DRAWING WITHOUT THEIR WRITTEN CONSENT
IS PROHIBITED AND ANY INFRINGEMENT IS
SUBJECT TO LEGAL ACTION.



LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION#14361

O. DATE INITIAL REQUESTED BY

ISSUED FOR BID 02/25/2015 SHEET TITLE

DRAINAGE AND **EROSION CONTROL DETAILS** 

PROJECT NUMBER DATE | 12185-2 | | 11/10/2014 DRAWN BY STAFF CHECKED BY

SHEET NUMBER C2.92

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.

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.

Deciduous. Native to

Many flower colors.

green.

Georgia.

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.

Hedera helix

quinquefolia

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

Scientific

Name

Ilex crenata

'Compacta'

llex cornuta 'Rotunda'

llex burfordii

Ilex vomitoria

llex crenata

'Repandens'

Juniperus

horizontalis

'Plumosa'

Juniperus

horizontalis

Juniperus

horizontalis

'Blue Chip'

Juniperus

horizontalis

'Wiftonii'

Juniperus

davurica

'Expansa'

Parsoni)

Juniperus

chinensis

'Pfitzerana'

OTHER PLANS MAY HAVE HIGHER APPLICATION RATES. IF

6 ft.

Needs room.

(Squamata

pacta'

'Plumosa com-

'Nana'

'Nana'

Common

Name

Chinese Holly

**Dwarf Burford** 

Dwarf Yaupon

Repandens

Compacta

Holly

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

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

See Figure 6-4.1.

Mature Height	Plant Spacing	Comments	Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
3-4 ft.	5 ft.	Sun, semi-shade.	Prince of Wales Juniper	Juniperus horizontalis 'Prince of Wales'	8-10 in.	4 ft.	Feathery appearance.
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
5-8 ft.	8 ft.			'Sargentii'			color.
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.
2-3 ft.	5 ft.	Sun, semi-shade.	Liriope	Liriope muscari	8-10 in.	3 ft.	
2-3 ft.	5 ft.	Excellent for slopes. Sun.	Creeping Liriope	Liriope spicata	10-12 in.	1 ft.	Spreads by runners.
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.
8-10 in.	<b>4</b> ft.		Common Periwinkle	Vinca minor	5-6 in.	4 ft.	Lavender-blue flowers in spring. Semi-shade
4-6 in.	3 ft.	Very low. Sun.	Cherokee Rose	Rosa laevigata	2 ft.	5 ft.	Rampant grower. Not for restricted spaces. State flower.
			Memoria Rose	Rosa weuchuriana	2 ft.	5 ft.	Rampant grower.
18-24 in.	5 ft.	One of the best, good winter cover.	St. Johnswort	Hypericum calycenum	8-12 in.	3 ft.	Semi-shade.
			Anthony Waterer Spirea	Spirea bumalda	3-4 ft.	5 ft.	Sun.

Thunberg

Spirea (WITH PERMANENT VEGETATION)

3-4 ft.

5 ft.

Spirea thinbergii

SITE	SOIL MATERIAL	COMMON SOILS	PLANTING TREE SPECIES 1/	SPACING	PLANTING DATES 3/
Borrow areas, graded areas, and spoil	Sandy	Lakeland, Troup	Loblolly pine (Pinus taeda)	2/	M-L,P 12/1-3/15 C 12/1-3/1
material			Longleaf pine (Pinus palustris)		
	Loamy	Orangeburg, Tifton	Loblolly pine	2/	M-L,P 12/1-3/15 C 12/1-3/1
			Slash pine		
	Clay	Cecil, Faceville	Loblolly pine	2/	M-L,P 12/1-3/15 C 12/1-3/1
		. 40001110	Slash pine		12.5
			Virginia pine (Pinus virginiana)		
Streambanks			Willows 4/ (Salix species)	2 ft x 2 ft	ALL 11/15 - 3/15

TREES FOR EROSION CONTROL

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

No. of Trees 2/ Type of Planting Tree Spacing Per Acre Trees alone 4 ft. x 4 ft. 2722 Trees in combination 6 ft. x 6 ft. 1210 with grasses and/ or other plants

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

P represents the Southern Piedmont MLRA

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

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

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 IS DRAWING AND THE DESIGN SHOWN IS E PROPERTY OF THE ARCHITECT. THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF THIS
DRAWING WITHOUT THEIR WRITTEN CONSENT
IS PROHIBITED AND ANY INFRINGEMENT IS
SUBJECT TO LEGAL ACTION.

ORG 11.10.1 No. 27087 PROFESSIONAL LEVEL II CERTIFIED

DESIGN PROFESSIONAL CERTIFICATION#14361

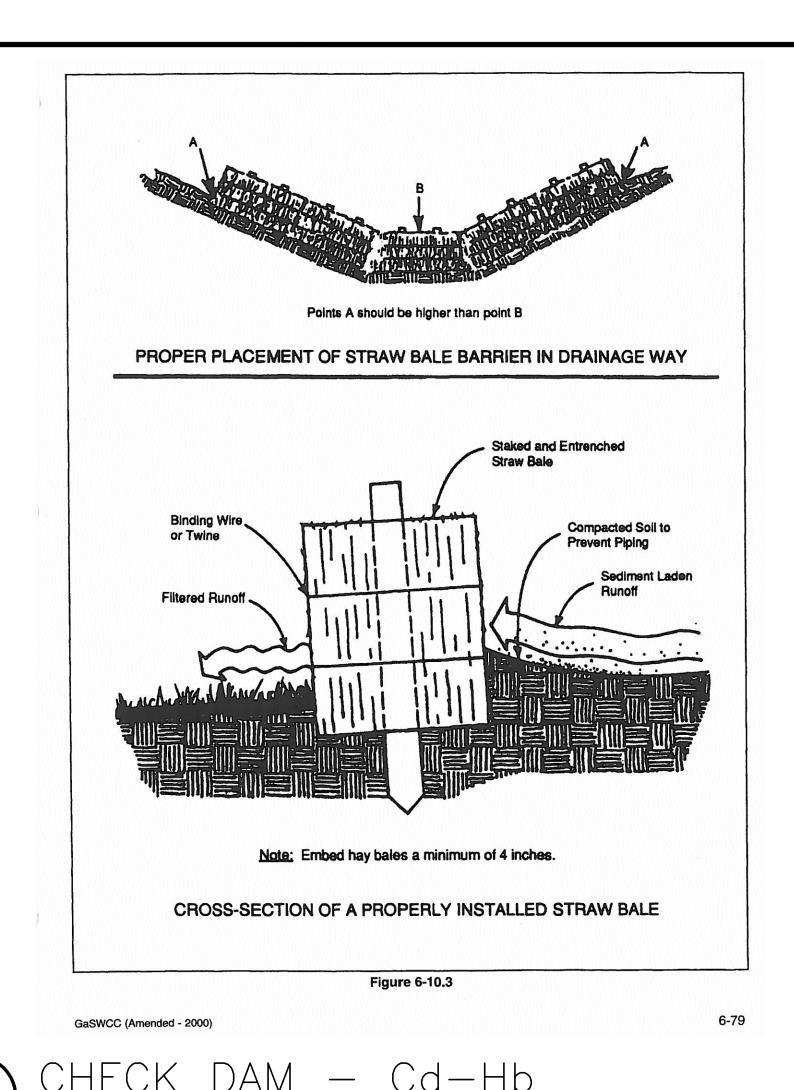
PO

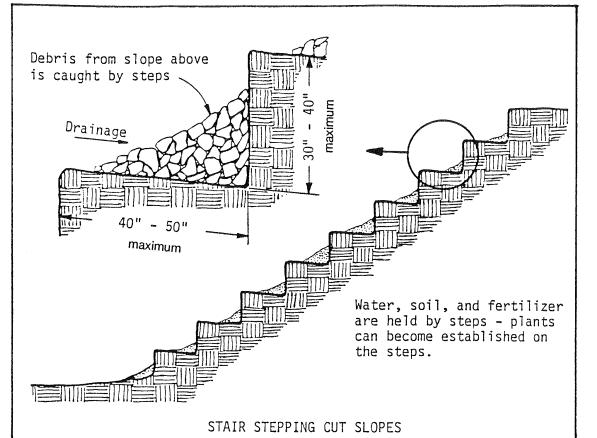
REVISIONS NO. | DATE | INITIAL | REQUESTE BY <u>ISSUED FOR BID 02/25/2015</u>

SHEET TITLE DRAINAGE AND **EROSION CONTROL DETAILS** 

PROJECT NUMBER DATE 12185-2 11/10/2014 DRAWN BY SCALE STAFF CHECKED BY N/A SHEET NUMBER

C2.93





3 INLET HEADWALL-OUTLET HEADWALL NOT TO SCALE

INLET HEADWALL

QUANTITIES SYGNA WILL BE ACTUM. PAY QUANTITIES FOR CLASS OF CONCRETE, INCLUDING TEMPOREOD STEEL, NO ADJUSTMENT WILL IE MADE FOR AS BUE T QUANTITIES.

D + INSIDE DIAMETER OF PIPE

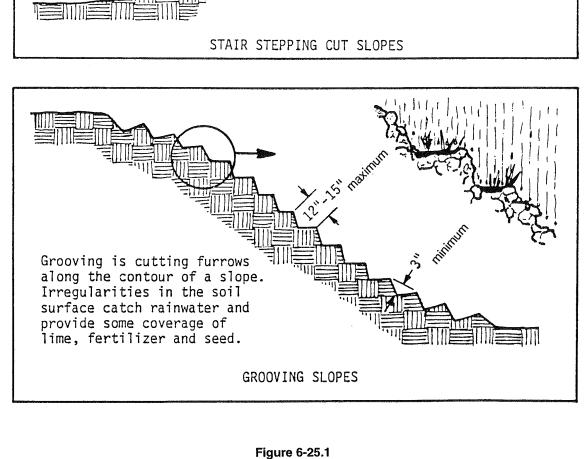
W FOR D = 72" OR LESS O' FOR D = OVER 72" 4 BARS 12" C. TO C.

___RAKED CONSTR. IT.

SECTION C-C LA

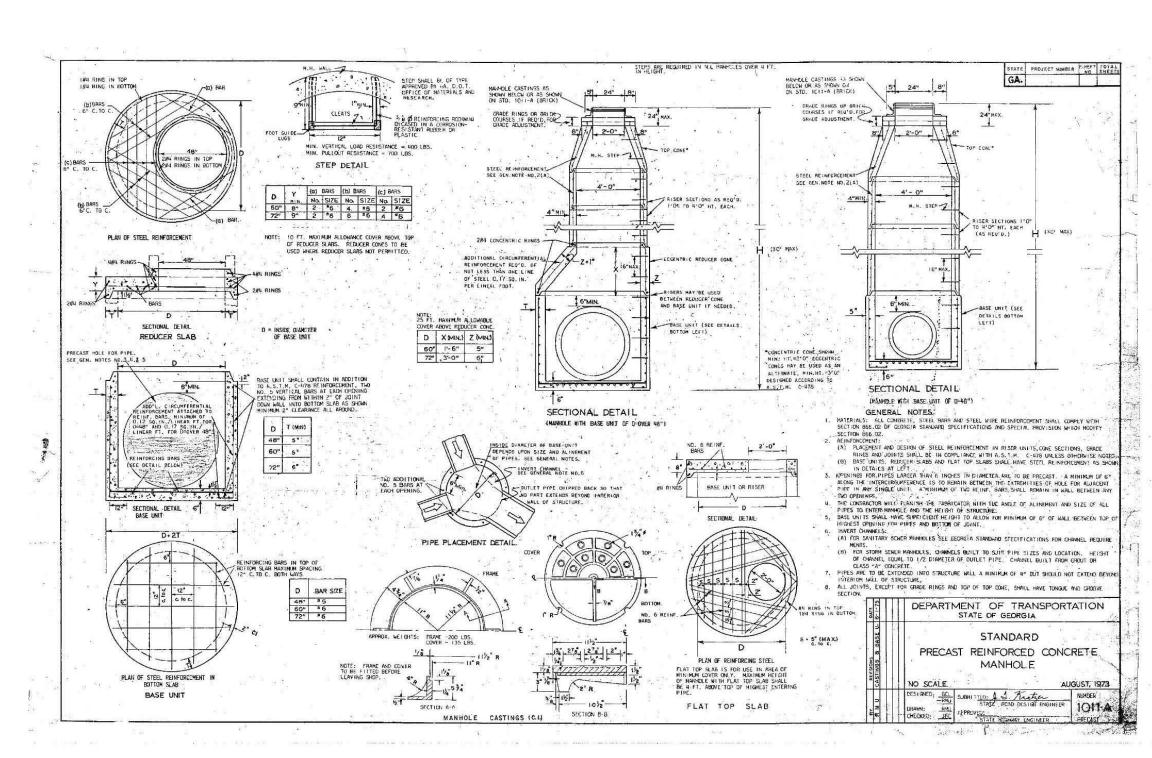
OUTLET HEADWALL

FRONT ELEVATION

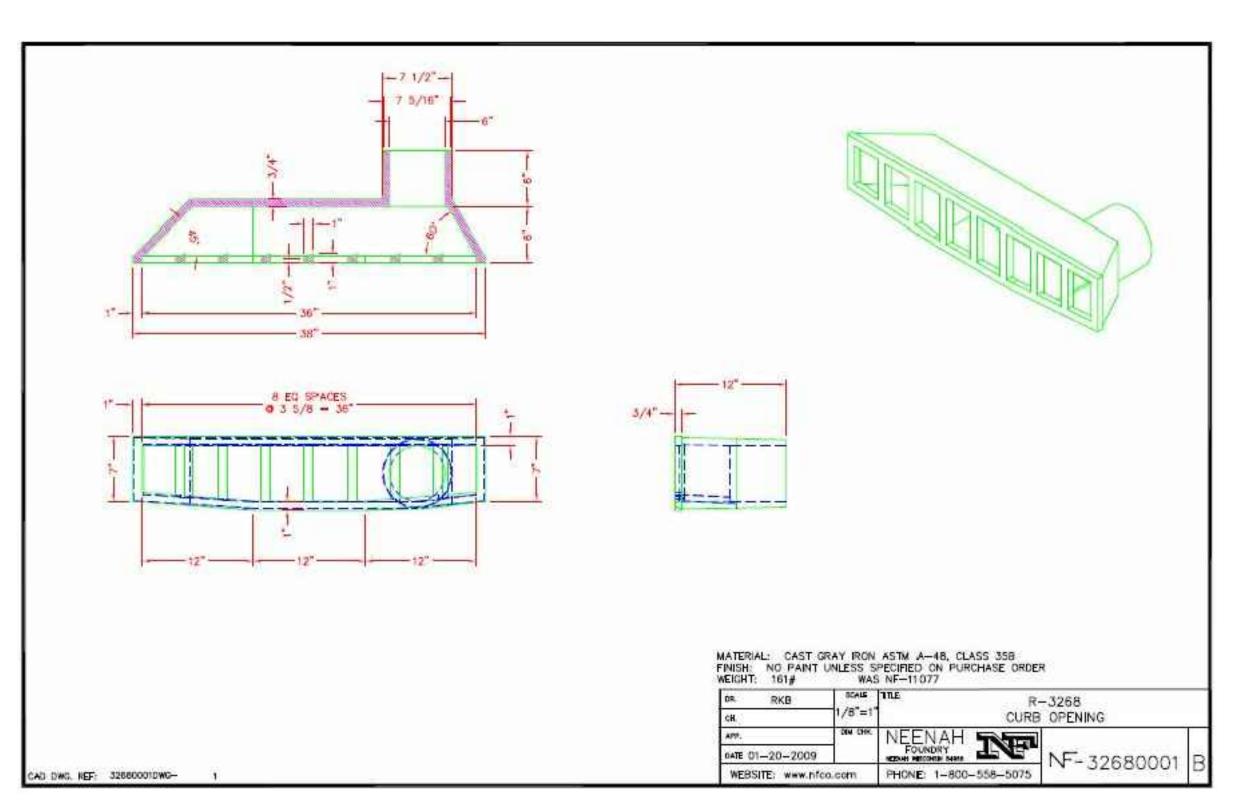




GaSWCC (Amended - 2000)







R-3268 CURB OPENING OR APPROVED EQUAL. ASSEMBLE AND INSTALL PER MANUFACTURER'S RECOMMENDATION.



6-187



RAKED SURFACE CONSTR. JOINT THROUGH WINGS & HEADWALL OMIT BAFFLE ON INLET

2- NO, 4 BARS ____ NO, 4 BAR (BOTH FACES) __

20. - El-20.

ADDITIONAL BAR DETAIL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

10" SLAB

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



4770 NORTH PEACHTREE ROAD, DUNY
4770 NORTH PEACHTREE ROAD, DUNY
LAND LOTS 686 - 19th DISTRICT PIN
344-08-001, 18-344-01-016

			18-3
15	SIONS		
).	DATE	INITIAL BY	REQUESTED BY
<u> </u>	JED FO	R BID (	02/25/2015

ISSUED FOR BID 02/25/201
SHEET TITLE

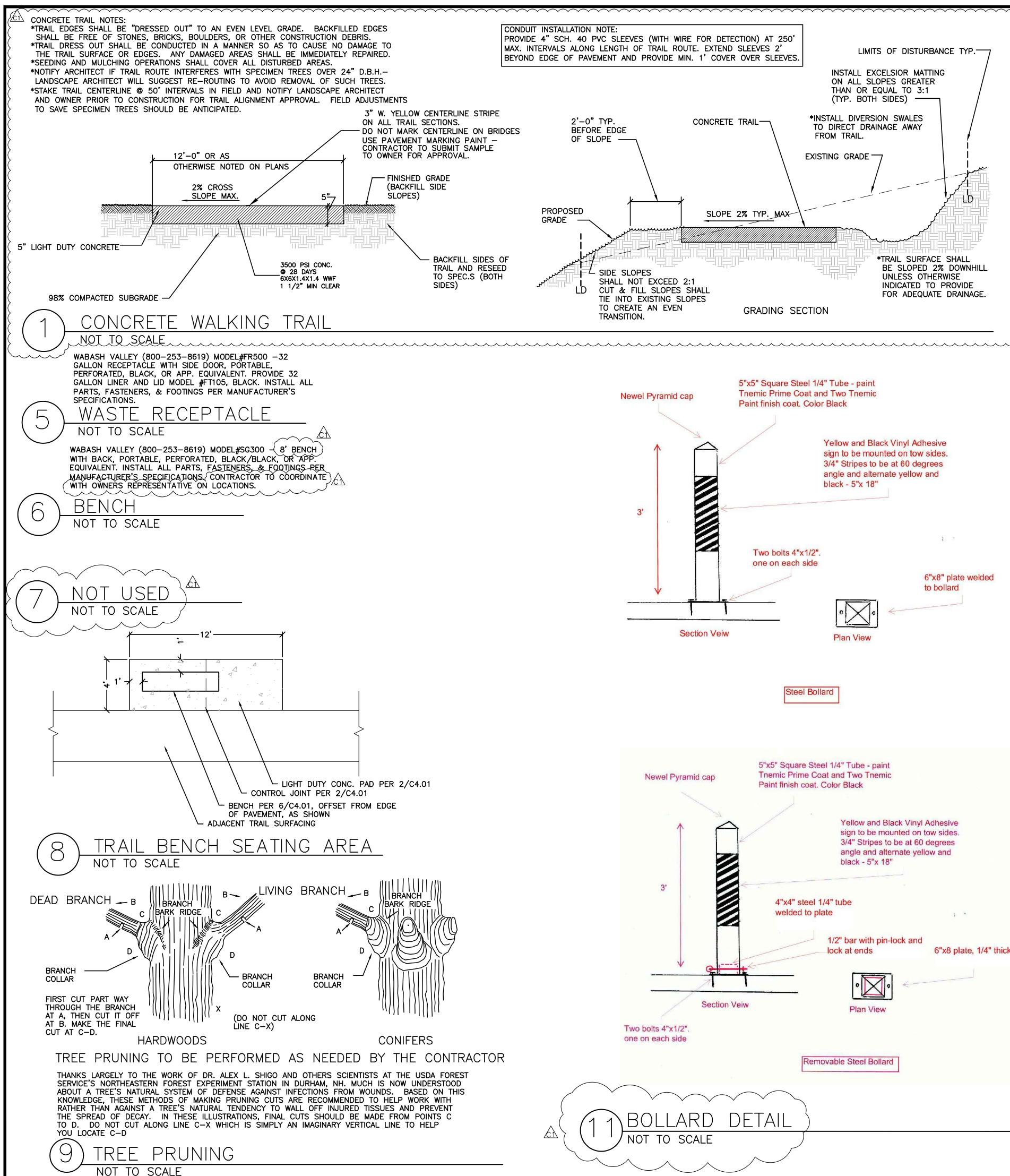
DRAINAGE AND

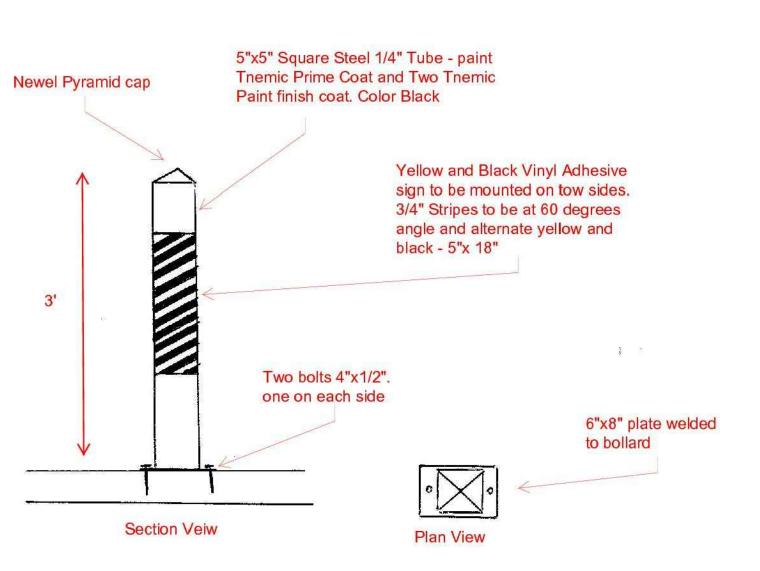
**EROSION CONTROL** 

**DETAILS** 

ROJECT NUMBER	DATE 11/10/2014
	SCALE
TAFF HECKED BY	N/A

STAFF
CHECKED BY
JN
SHEET NUMBER
C2.94





LIMITS OF DISTURBANCE TYP.

*TRAIL SURFACE SHALL

UNLESS OTHERWISE

INDICATED TO PROVIDE

BE SLOPED 2% DOWNHILL

FOR ADEQUATE DRAINAGE.

INSTALL EXCELSIOR MATTING

ON ALL SLOPES GREATER

THAN OR EQUAL TO 3:1

(TYP. BOTH SIDES) —

*INSTALL DIVERSION SWALES

FROM TRAIL.

EXISTING GRADE —

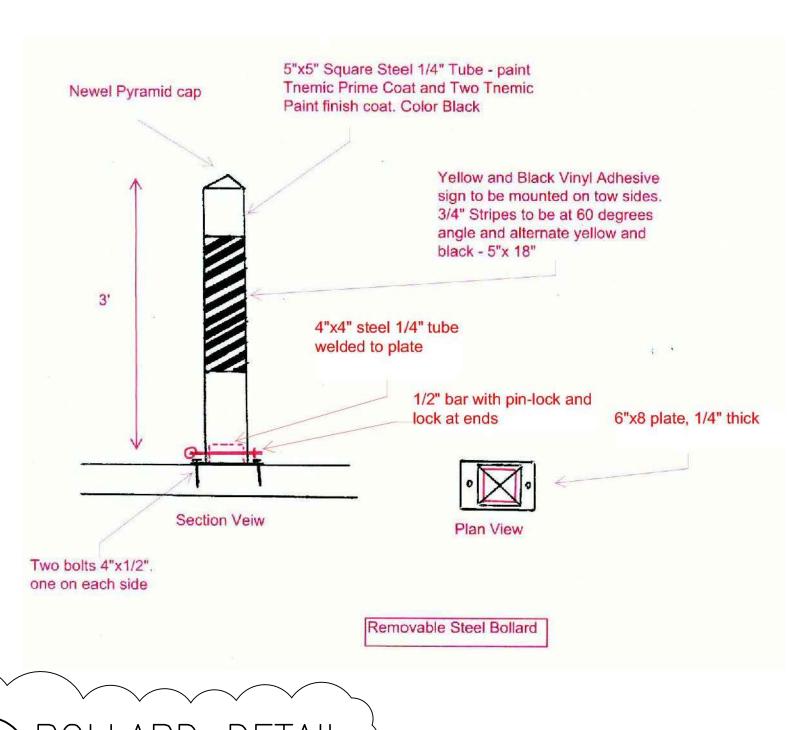
TO DIRECT DRAINAGE AWAY

CONCRETE TRAIL-

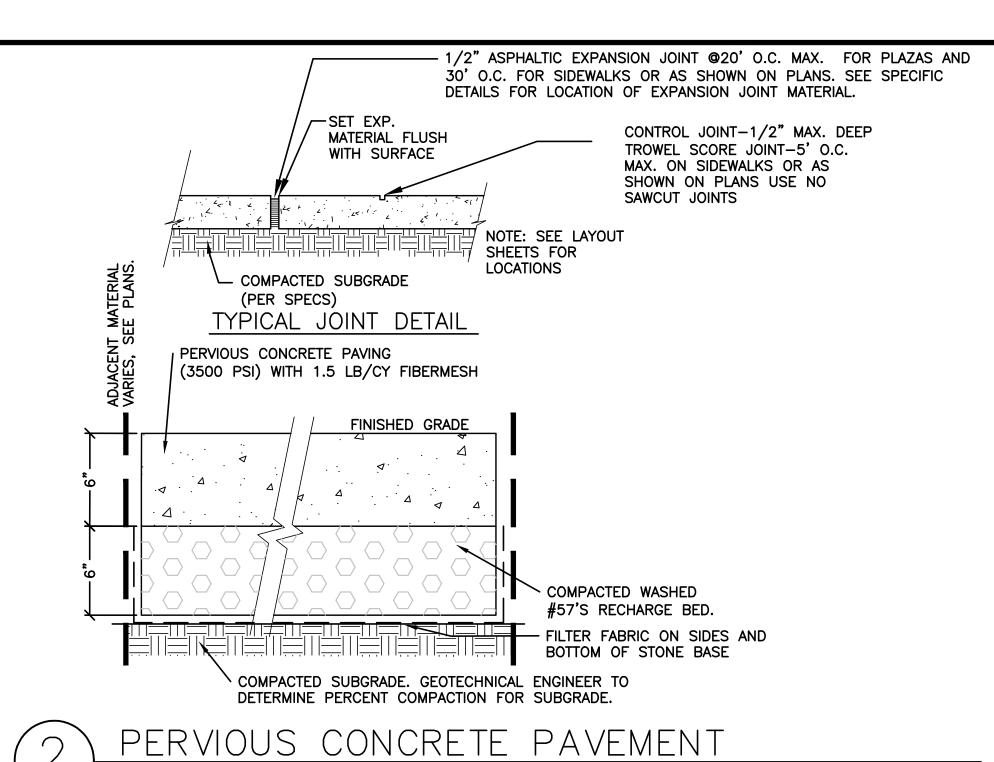
SLOPE 2% TYP. MAX

GRADING SECTION

Steel Bollard



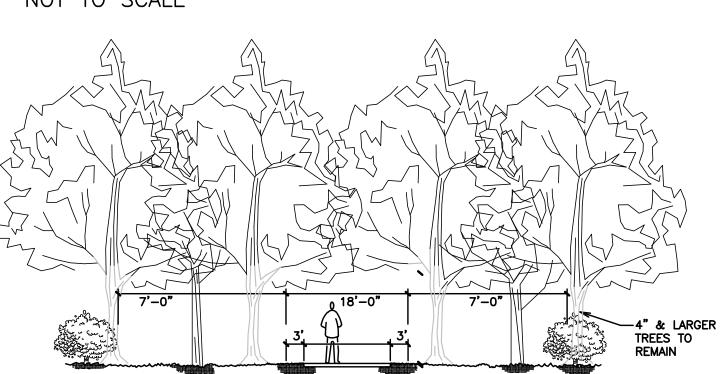
NOT TO SCALE



NOT TO SCALE

1.PROVIDE EXPANSION JOINTS 30' O.C. MAX. AT ENDS & MID POINTS OF RADIUS RETURNS AND ANY POINT NEW CURB & GUTTER ABUTS EXISTING OR PROPOSED CONCRETE.
2. PROVIDE 5' LONG TRANSITION BETWEEN NORMAL AND PITCHED GUTTER UNLESS OTHERWISE NOTED ON PLANS. 1/2" EXPANSION JOINT @ 3. NO STRAIGHT SEGMENTS SHALL BE CONSTRUCTED IN RADII. ADJ. CONC. ONLY. 4. CURB AND GUTTER IN DECEL. LANES TO BE 30" U.N.O. 5. CONTRACTION JOINT 10' O.C. TURF AREA OR CONCRETE PAVING - CONCRETE CURB & GUTTER SEE LAYOUT PLANS PER GA. DOT #9032B TYPE 2 FOR LOCATIONS. - SEE PLANS FOR ADJACENT PAVEMENT NOTE: PROVIDE EXPANSION JOINTS @ 30' O.C. MAX. -COMPACTED SUBGRADE _____ 24" OR 18"<del>____</del> (PER SPCES) SEE PLANS FOR LOCATIONS

#9032B TYPE NOT TO SCALE



1. LANDSCAPE ARCHITECT SHALL FLAG TREES FOR REMOVAL. ADDITIONAL TREES MAY BE REMOVED BY CONTRACTOR AFTER ON-SITE CONSULTATION AND AGREEMENT OF LANDSCAPE ARCHITECT. 2. CONTRACTOR SHALL COMPLETELY CLEAR VEGETATION WITHIN 3' OF TRAIL EDGE, EXCEPT TREES 4" AND LARGER. CONTRACTOR SHALL CLEAR FOREST UNDERSTORY( TREES LESS THAN 4" CAL.) AND BRUSH FOR A DISTANCE OF 10' ON BOTH SIDES OF THE TRAIL. < OF TREES SHALL BE LIMBED UP TO A VERTICAL DISTANCE OF 10' FROM THE FOREST FLOOR IN THE 10' WIDE ZONE. BRANCHES SHALL BE CUT FLUSH WITH STANDARD TREE PRUNING EQUIPMENT, AS CALLED FOR IN THE TREE PRUNING SPECIFICATION & DETAIL 9/C4.01

- 3. CONTRACTOR SHALL USE WOOD CHIPPER TO DISPOSE OF LANDSCAPE CLEARING DEBRIS. WOOD CHIPS SHALL BE BLOWN INTO WOODS ADJACENT TO TRAIL. CONTRACTOR SHALL USE ALL PRACTICABLE MEANS
- TO REDUSE AMOUNT OF WASTE SENT FROM THIS JOB SITE TO LANDFILL. 4. IN AREAS WHERE TRAIL IS ROUTED ADJACENT TO WOODS EDGE, UNDERSTORY CLEARING SHALL EXTEND 15'

5. SEED AREA WITHIN CLEARING LIMITS ONLY IN FLOODPLAIN AS CALLED FOR IN SPECIFICATIONS

EGETATION CLEARING FOR TRAILS NOT TO SCALE

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

HIS DRAWING AND THE DESIGN SHOWN IS HE PROPERTY OF THE ARCHITECT. THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF THIS
DRAWING WITHOUT THEIR WRITTEN CONSENT
IS PROHIBITED AND ANY INFRINGEMENT IS
SUBJECT TO LEGAL ACTION.



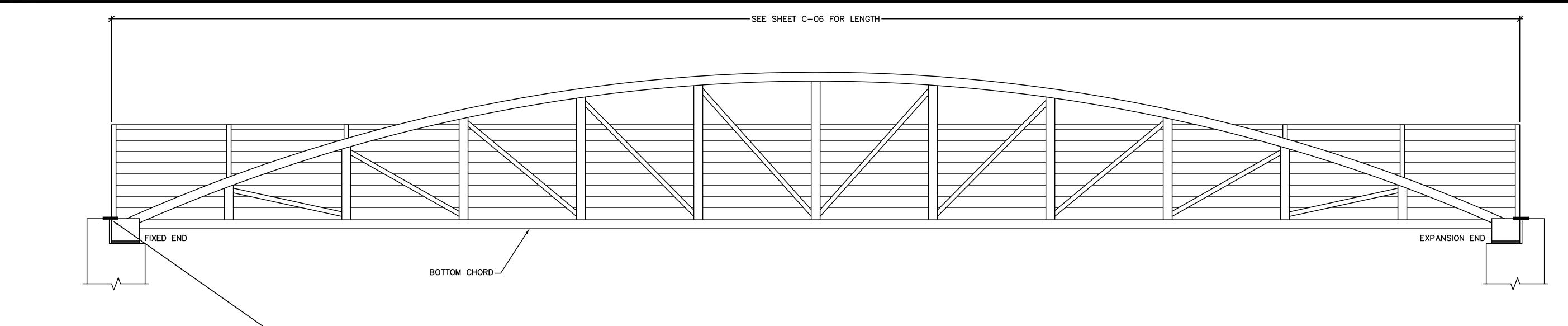
**(2)** 

EVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTE BY
Ŝ	01/09/14	JN	ADDRESS COMMENT
SSI	JED FOI	R BID (	02/25/201
HEE	T TITLE		

SITE DETAILS

ROJECT NUMBER DATE 11/10/2014 12185-2 DRAWN BY STAFF CHECKED BY

SHEET NUMBER C4.01



PIONIER BRIDGES A DIVISION OF

A DIVISION OF
BAILEY BRIDGES, INC.
119 40th Street NE
Fort Payne, AL 35967
1-866-708-5778

122'-0' C/C BEARING

ABUTMENT SIDE ELEVATION

EXPANSION END

BRIDGE SIDE ELEVATION VIEW

BACKWALL MAY BE PLACED AFTER SUPERSTRUCTURE IS IN PLACE

-PROVIDE 8" WIDE, 1/2" THICK, TAPERED ALUM. THRESHOLD PLATE

ABUTMENT WITH MIN. 2" FASTENERS @ 18" O.C.
SUBMIT SHOP DRAWINGS OF PLATE AND FASTENING METHODS
PRIOR TO FABRICATION.

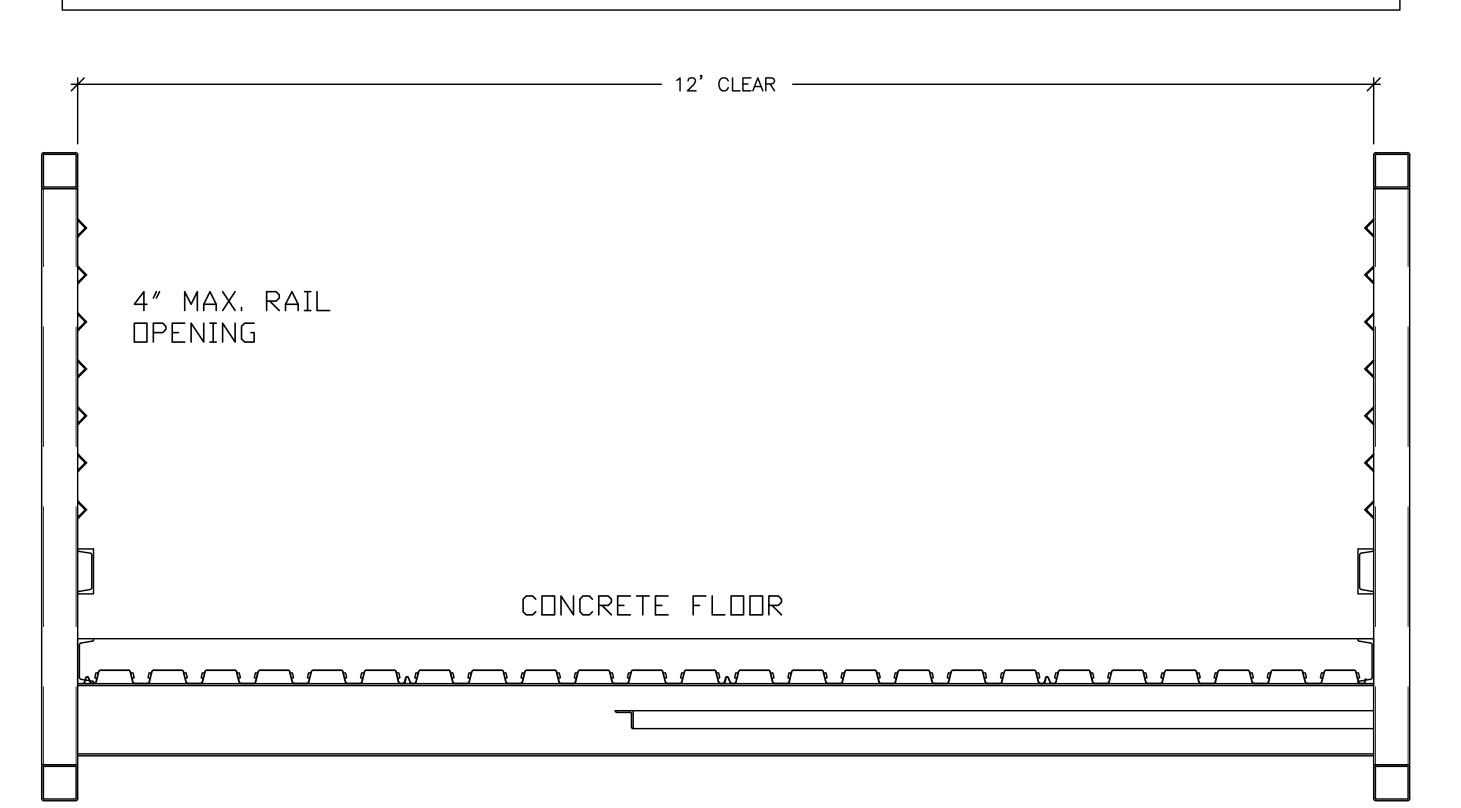
OVER GAP, FULL WIDTH OF BRIDGE-BOTH ENDS.

PROVIDE NON-SLIP SURFACE ON TOP SURFACE. FASTEN TO BOTH BRIDGE DECK AND CONC.

TYPICAL ABUTMENT CROSS SECTION ABUTMENT TO BE DESIGNED BY OTHERS

NOTE: BRIDGE & ABUTMENT/FOUNDATION SHOWN FOR REFERENCE PURPOSES ONLY.
DEPENDING ON WHICH BRIDGE MANUFACTURER IS SUBMITTED, ABUTMENT AND
FOUNDATION REQUIREMENTS MAY DIFFER. CONTRACTOR IS RESPONSIBLE FOR ABUTMENT,
FOUNDATION, AND WINGWALL DESIGN TO ACCOMMODATE EACH BRIDGE AT EACH
SPECIFIC SITE LOCATION. FIELD MEASUREMENTS WILL BE REQUIRED AND A CUSTOM
DESIGNED ABUTMENT/WINGWALL/FOUNDATION WILL BE REQUIRED FOR EACH INSTANCE
TO MEET PLAN INTENTIONS.

THE CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS OF ALL BRIDGE COMPONENTS, ABUTMENTS, WINGWALLS & FOUNDATIONS REQUIRED SEALED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA, RECEIVE OWNER APPROVAL, SUBMIT DESIGNS TO PERMIT AGENCIES IF REQUIRED BY LOCAL ORDINANCE, AND ACQUIRE ALL NECESSARY PERMITS FOR CONSTRUCTION, PRIOR TO ORDERING, FABRICATION, CONSTRUCTION, ETC. DESIGN OF THE BRIDGE FOUNDATION IS TO BE PERFORMED BY THE CONTRACTOR AND SUBMITTED ALONG WITH THE BRIDGE PLANS FOR PERMITTING.



BRIDGE CROSS
SECTION

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

THIS DRAWING AND THE DESIGN SHOWN IS

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THE DRAWING WITHOUT THEIR WRITTEN CONSENSE PROHIBITED AND ANY INFRINGEMENT IS



L - PHASE III

DUNWOODY, GA 30338

ST PIN: 18-354-01-005.

4770 NORTH PEACHTREE RC LAND LOTS 686 - 19th DIS 344-08-001, 18-344-01-001, 18-

			₩
EVIS	SIONS		
۱0.	DATE	INITIAL BY	REQUESTE BY
<u>ssl</u>	JED FOI	R BID (	<u>)2/25/201</u>
HEE	T TITLE		
	SITE	DET#	<b>NILS</b>

PROJECT NUMBER DATE
12185-2
11/10/2014
DRAWN BY
STAFF
N/A

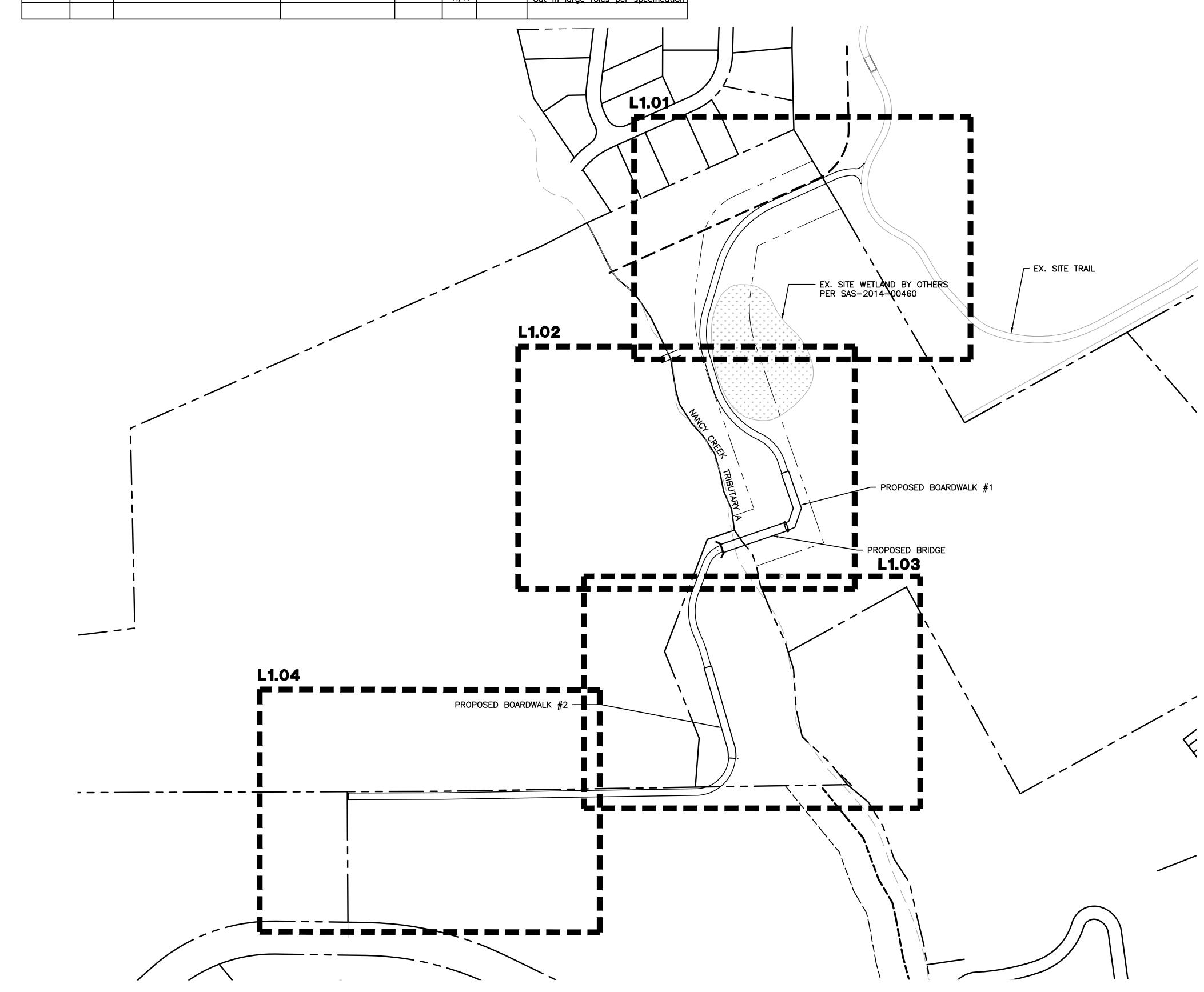
DRAWN BY
STAFF
CHECKED BY
WA
SHEET NUMBER

ET NUMBER C4.02

# SEE C2.80 SERIES SHEETS FOR LIMITS OF DISTURBANCE, TREE FENCE, AND TREE SAVE LOCATIONS.

### PLANT SCHEDULE

QUANTITY	ID	Botanical Name	Common name	UNIT	Ht.	Root	Comments
ALL DISTURBED	FES RE2	Festuca arundinacea 'Rebel II'	Rebel Tall Fescue	S.F.	N/A	HYDROSEED	Certified Georgia seed © 300 lbs./acre
7079	FES RE2	Festuca arundinacea 'Rebel II'	Rebel Tall Fescue	S.F.	N/A	SOD	Certified Georgia blue tag sod Cut in large roles per specification
							, ,



#### **GENERAL NOTES:**

1. UNDERGROUND UTILITIES:

A. UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, LANDSCAPE ARCHITECT, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL UTILITIES PROTECTION CENTER--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.

2. 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 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.

#### LANDSCAPE NOTES:

- 1. PLANTING BEDS AND PLANT LOCATIONS SHALL BE STAKED BY THE LANDSCAPE CONTRACTOR. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER OR THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION OF THE PLANTS.
- 2. PLANTING BEDS SHALL BE CLEARED OF ALL GRASS AND WEEDS PRIOR TO INSTALLATION OF PLANTS, INCLUDING SPRAYING "ROUND-UP" OR APPROVED SUBSTITUTE TO KILL ACTIVELY GROWING PLANTS. PLANT BEDS SHALL BE PREPARED AS CALLED FOR IN THE SPECIFICATIONS AND DETAILS.
- 3. ALL OTHER DISTURBED AREAS ARE TO BE SEEDED OR SODDED AS PER THE PLANS. ADDITIONAL SEEDING OR SODDING, IF REQUIRED, WILL BE AS DIRECTED BY THE OWNER
- OR OWNER'S REPRESENTATIVE. SEE EROSION CONTROL SHEET FOR SEEDING. 4. PLANTING BEDS SHALL HAVE A FOUR (4) INCH SHREDDED HARDWOOD BARK MULCH OVER THE ENTIRE BED, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 5. PRIOR TO PLANTING, ALL PLANTED AREAS SHALL BE TREATED WITH A WATER-SOLUBLE HERBICIDE FOR THE NON-SELECTIVE CONTROL OF ANNUAL AND PERENNIAL
- WEEDS PRIOR TO PLANTING. 6. ALL TREE AND SHRUB PLANTING PITS SHALL BE BACKFILLED WITH A PLANTING SOIL MIXTURE OF ONE (1) PART ORIGINAL SOIL AND ONE (1) PART TOPSOIL, THOROUGHLY MIXED. SAMPLE OF MIXTURE TO BE APPROVED IN WRITING BY OWNER OR
- OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. 7. PLANT GROUNDCOVER & ANNUAL BEDS IN SAME MIXTURE AS SHRUBS. AFTER PLANTING & MULCHING, WATER AREAS TO POINT OF SATURATION.
- 8. ALL PLANTED AREAS ARE TO BE FERTILIZED WITH GRANULAR FERTILIZER. LANDSCAPE CONTRACTOR IS TO PROVIDE SOIL TEST RESULTS AND PROPOSED FERTILIZER APPLICATION RATES TO THE OWNER OR OWNER'S REPRESENTATIVE FOR APPROVAL.
- 9. ALL PLANT MATERIAL IS TO BE NURSERY GROWN AND TO COMPLY WITH AMERICA STANDARD FOR NURSERY STOCK(ANSI Z60. 1-2004) OR LATEST EDITION. PLANTS NOT IN COMPLIANCE WILL BE REJECTED AND REPLACED WITH PLANTS THAT MEET THE STANDARDS.
- 10. SPRAY TREES AND SHRUBS WITH AN ANTI-DESICCALT IF FOLIAGE IS PRESENT. 11. EVERGREEN TREES AND SHRUBS SHALL BE PLANTED IN THE SAME MANNER AS
- DECIDUOUS MATERIAL IS PLANTED.
- 12. DO NOT PRUNE ANY PLANT MATERIAL UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 13. ALL LANDSCAPE MATERIAL SHALL BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE BEFORE INSTALLATION. MATERIALS MAY BE VIEWED AT LANDSCAPE CONTRACTOR'S HOLDING SITE OR AT THIS SITE. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE OF THE AVAILABILITY OF THE MATERIALS TO BE INSPECTED
- 14. ALL MATERIALS INSPECTED ON THE SITE AND FOUND TO BE UNACCEPTABLE SHALL BE REMOVED FROM THE SITE ON THE DAY OF INSPECTION.
- 15. FIELD CHANGES MUST BE APPROVED IN WRITING BY THE OWNER OR OWNER'S
- REPRESENTATIVE.
- 16. EXISTING PLANT MATERIAL IS TO BE EVALUATED BY THE LANDSCAPE ARCHITECT FOR POSSIBLE RELOCATION ON SITE. THE LANDSCAPE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT FORTY-EIGHT (48) HOURS BEFORE BEGINNING WORK.
- 17. ALL PLANT MATERIAL SHALL BE SUPPLIED BY APPROPRIATE SOURCES TO PREVENT UNDUE STRESS OR PROLONGED ACCLIMATIZATION WHICH WOULD INHIBIT PLANT
- 18. LANDSCAPE CONTRACTOR IS TO VERIFY PLANT QUANTITIES SHOWN ON PLAN AND IN PLANT LIST. IF DISCREPANCIES OCCUR, LANDSCAPE CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT IMMEDIATELY. QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE.
- 19. MULTI-TRUNK PLANT MATERIAL SHALL BE ONE PLANT GROWN FROM SINGLE SEEDLING NO CLUMP MULTI-PLANT STOCK WILL BE ACCEPTED. 20. IF IN THE OPINION OF THE LANDSCAPE ARCHITECT, THE CENTRAL LEADER OF ANY TREE
- HAS BEEN CUT IN THE HISTORY OF THE PLANT'S GROWTH, THE MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. THE DECISION OF THE LANDSCAPE ARCHITECT WILL BE FINAL. 21. SEE PLANT LIST FOR FURTHER INFO.
- 22. TOPPING TREES IS NOT ALLOWED. TREES REMOVED OR HAVING THEIR TOPS CUT AFTER COMPLIANCE WITH THIS ORDINANCE SHALL BE REPLACED WITH THE EQUIVALENT INCHES
- 23. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF AND LAND DISTURBANCE.

### 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 MEETING.
- 2. 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).
- CALL BEFORE YOU DIG (800) 282-7411. 4. PROVISIONS FOR TREE PROTECTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF DUNWOODY TREE PRESERVATION ORDINANCE, ZONING ORDINANCE AND
- ADMINISTRATIVE GUIDELINES PERTAINING TO TREE PROTECTION. 5. IF THE LANDSCAPE DESIGN AND PLANT MATERIAL ARE CHANGED FROM THE PERMITTED PLAN, THREE (3) SETS OF REVISED PLANS SHALL BE SUBMITTED TO THE CITY OF DUNWOODY ARBORIST'S OFFICE FOR APPROVAL, PRIOR TO
- ANY LANDSCAPE INSTALLATION. 6. ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY OF DUNWOODY AT 678-382-6800 FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.

REFERENCE ONLY

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

SCALE: 1"=100'-0'

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

THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



**303**33 305, 44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-44 -01-4

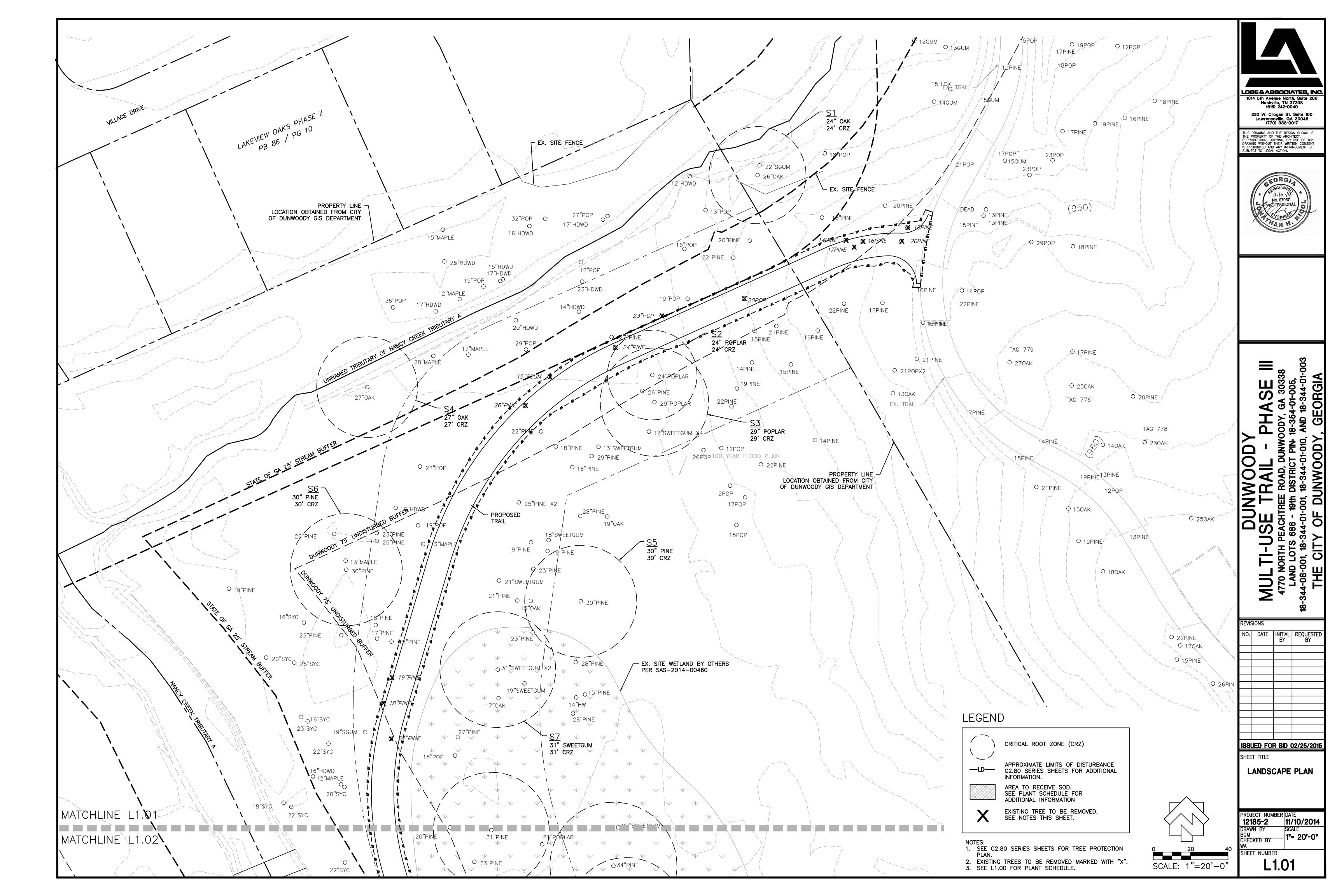
REVISIONS NO. | DATE | INITIAL | REQUESTE BY

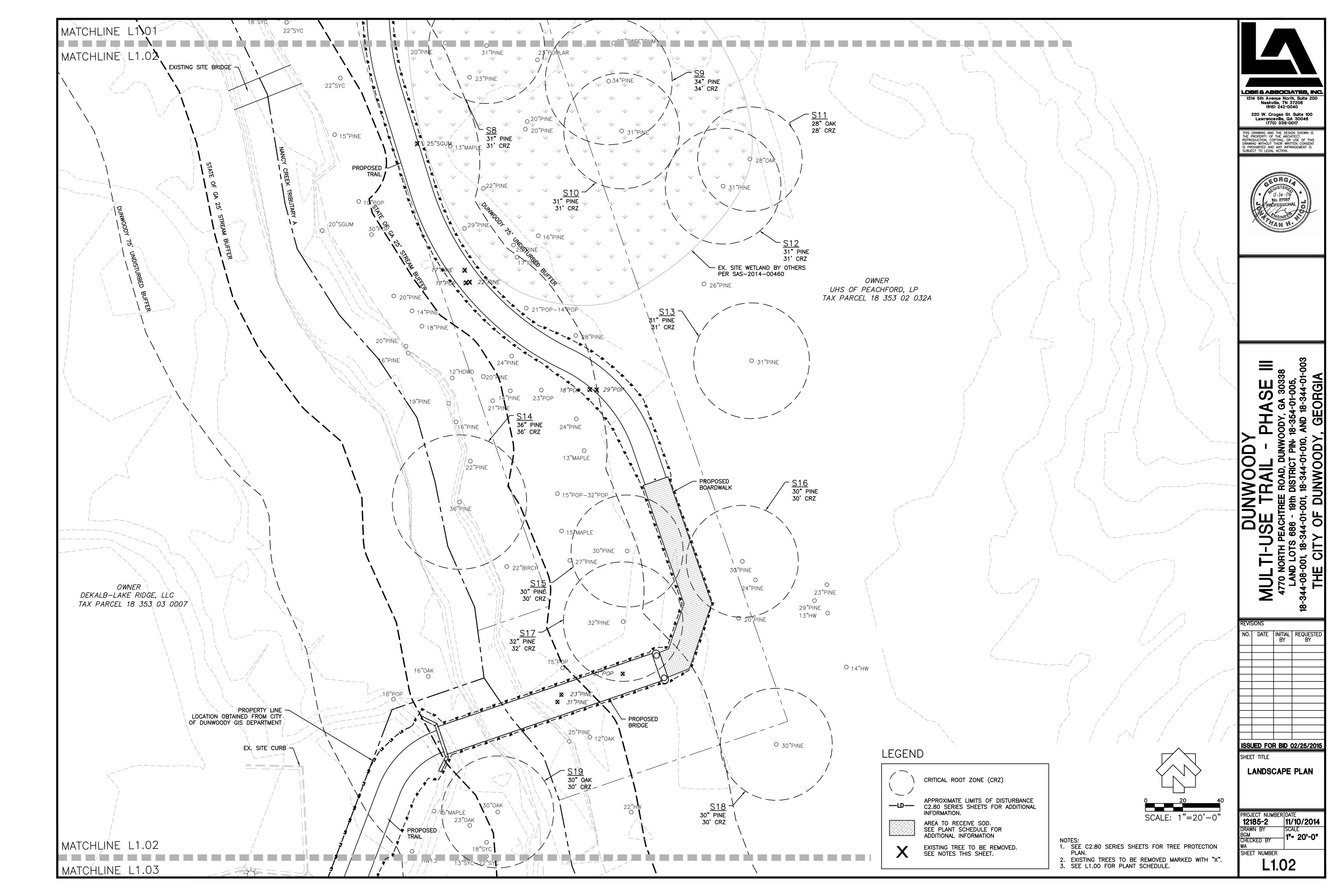
<u>ISSUED FOR BID 02/25/2015</u> SHEET TITLE

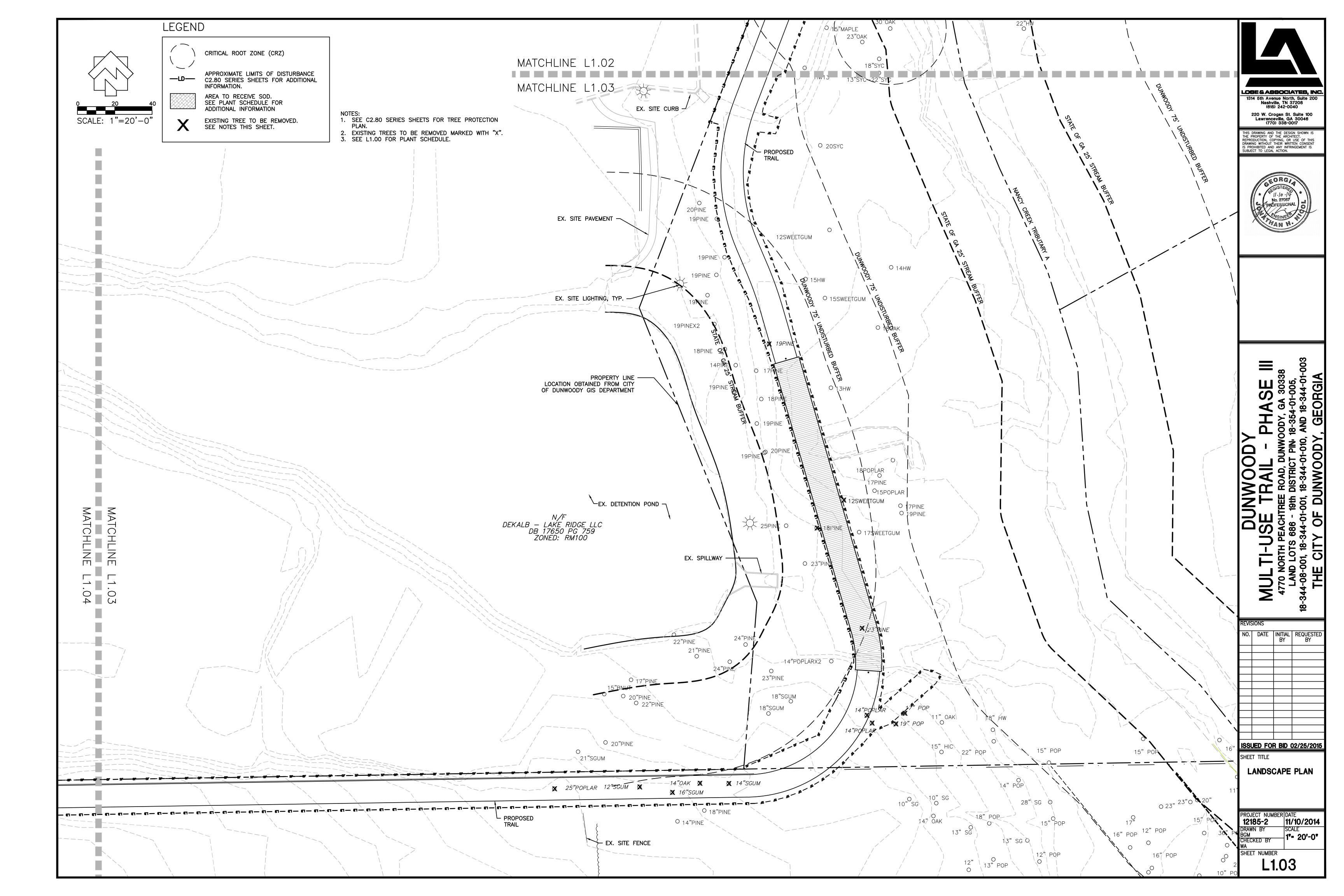
LANDSCAPE PLAN SHEETS KEY

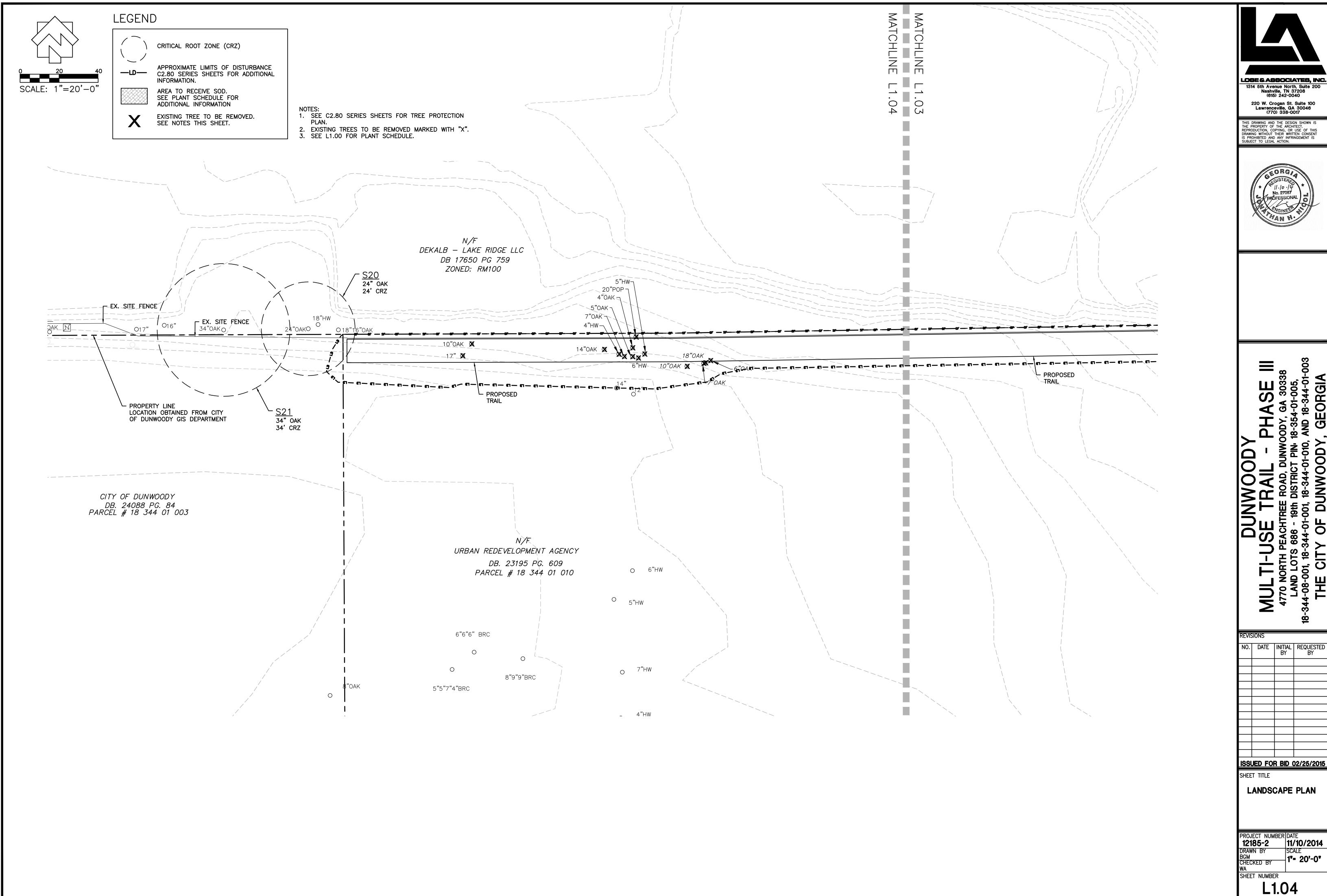
PROJECT NUMBER DATE 12185-2 11/10/2014 DRAWN BY ⊣1**"=** 100'-0" CHECKED BY

HEET NUMBER L1.00

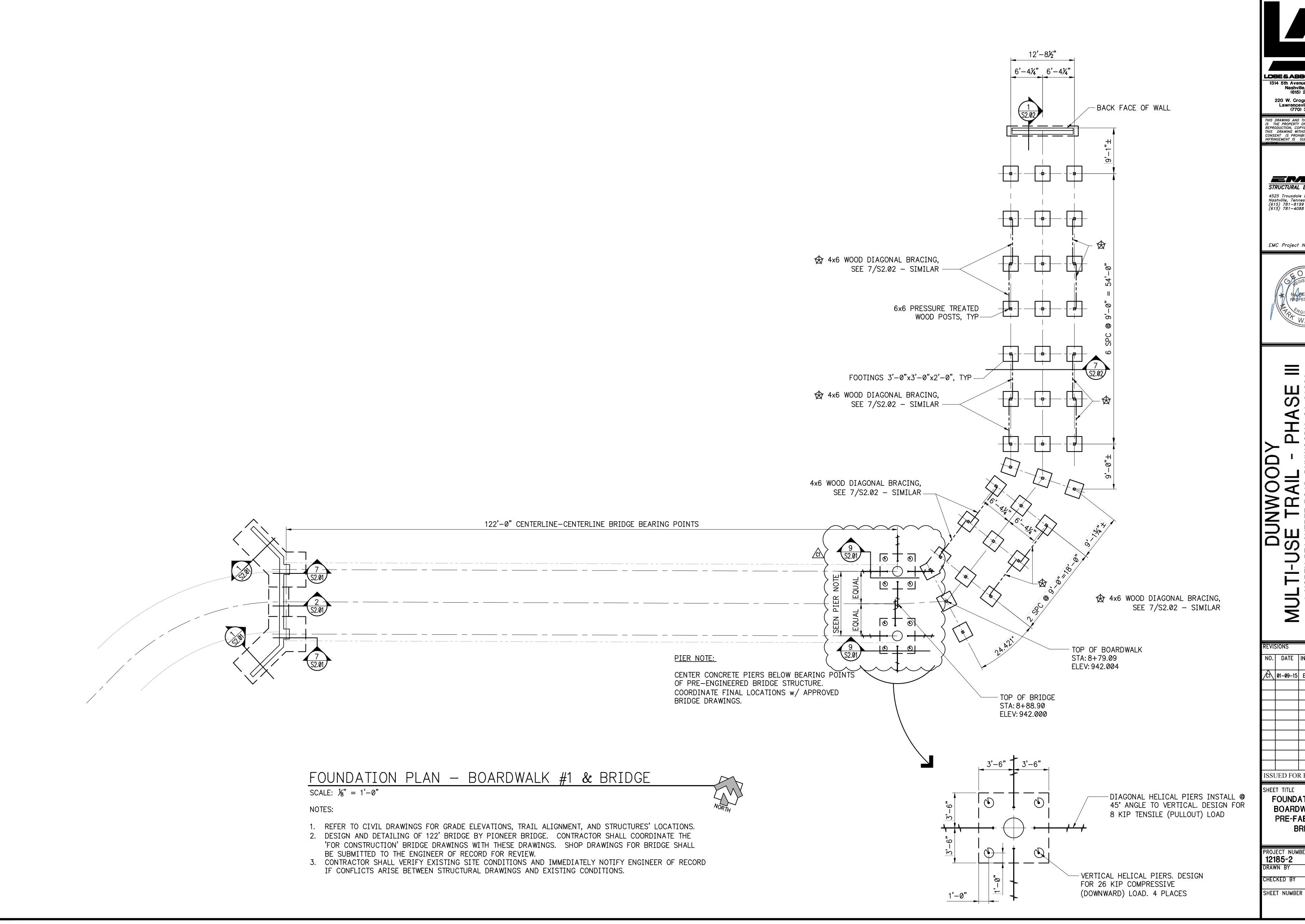








LOSE & ASSOCIATES, INC.



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

THIS DRAWING AND THE DESIGN SHOWN
IS THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF
THIS DRAWING WITHOUT THEIR WRITTEN
CONSENT IS PROHIBITED AND ANY
INFRINGEMENT IS SUBJECT TO LEGAL

STRUCTURAL ENGINEERS, P.C. 4525 Trousdale Drive Nashville, Tennessee 37204 (615) 781–8199 (615) 781–4088 (fax)

EMC Project No. 14370



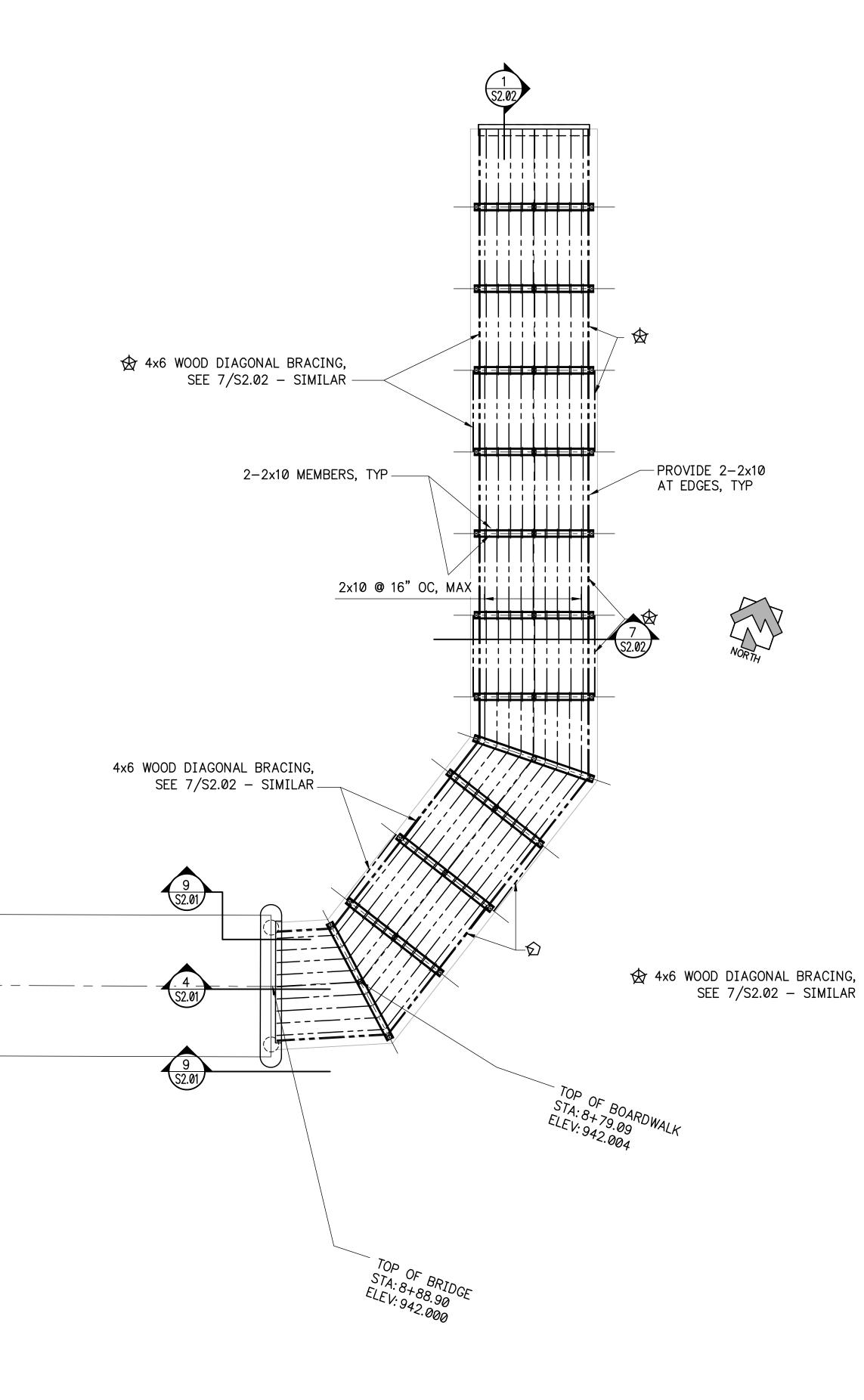
NO. DATE INITIAL REQUESTED BY C1 01-09-15 EMC ADDRESS COMMENTS

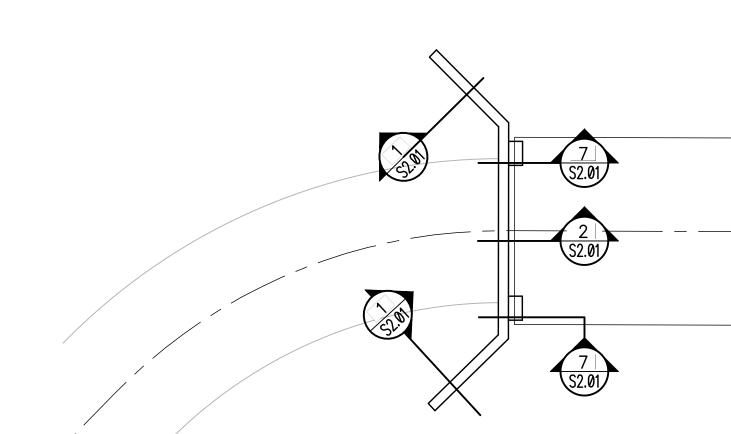
ISSUED FOR BID 02/25/2015

FOUNDATION PLAN **BOARDWALK #1** & PRE-FABRICATED **BRIDGE** 

PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY SCALE

S_{1.01}





# FRAMING PLAN - BOARDWALK #1

SCALE:  $\frac{1}{8}$ " = 1'-0"

NOTES:

1. REFER TO CIVIL DRAWINGS FOR GRADE ELEVATIONS, TRAIL ALIGNMENT, AND STRUCTURES' LOCATIONS.

2. DESIGN AND DETAILING OF 122' BRIDGE BY PIONEER BRIDGE. CONTRACTOR SHALL COORDINATE THE 'FOR CONSTRUCTION' BRIDGE DRAWINGS WITH THESE DRAWINGS. SHOP DRAWINGS FOR BRIDGE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.

3. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND IMMEDIATELY NOTIFY ENGINEER OF RECORD IF CONFLICTS ARISE BETWEEN STRUCTURAL DRAWINGS AND EXISTING CONDITIONS.

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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL

STRUCTURAL ENGINEERS, P.C. 4525 Trousdale Drive Nashville, Tennessee 37204 (615) 781–8199 (615) 781–4088 (fax)

EMC Project No. 14370

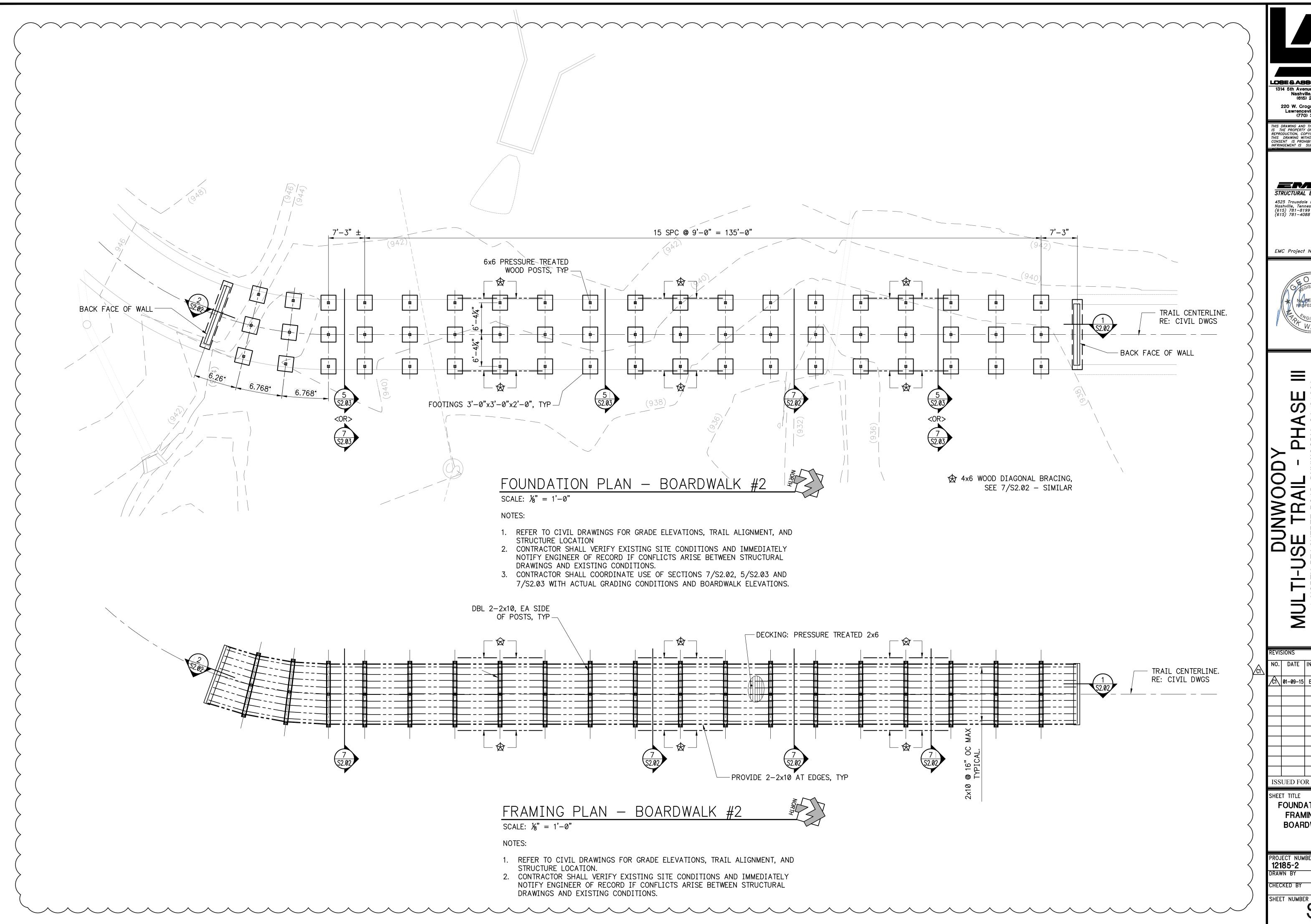


00

		•	18-3
REVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTED BY
ISS	UED FO	R BID (	02/25/2015
SHEE	T TITLE		

FRAMING PLAN **BOARDWALK #1** 

PROJECT NUMBER DATE
12185-2 11/10/2014
DRAWN BY SCALE CHECKED BY SHEET NUMBER



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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL

STRUCTURAL ENGINEERS, P.C. 4525 Trousdale Drive Nashville, Tennessee 37204 (615) 781–8199 (615) 781–4088 (fax)

EMC Project No. 14370

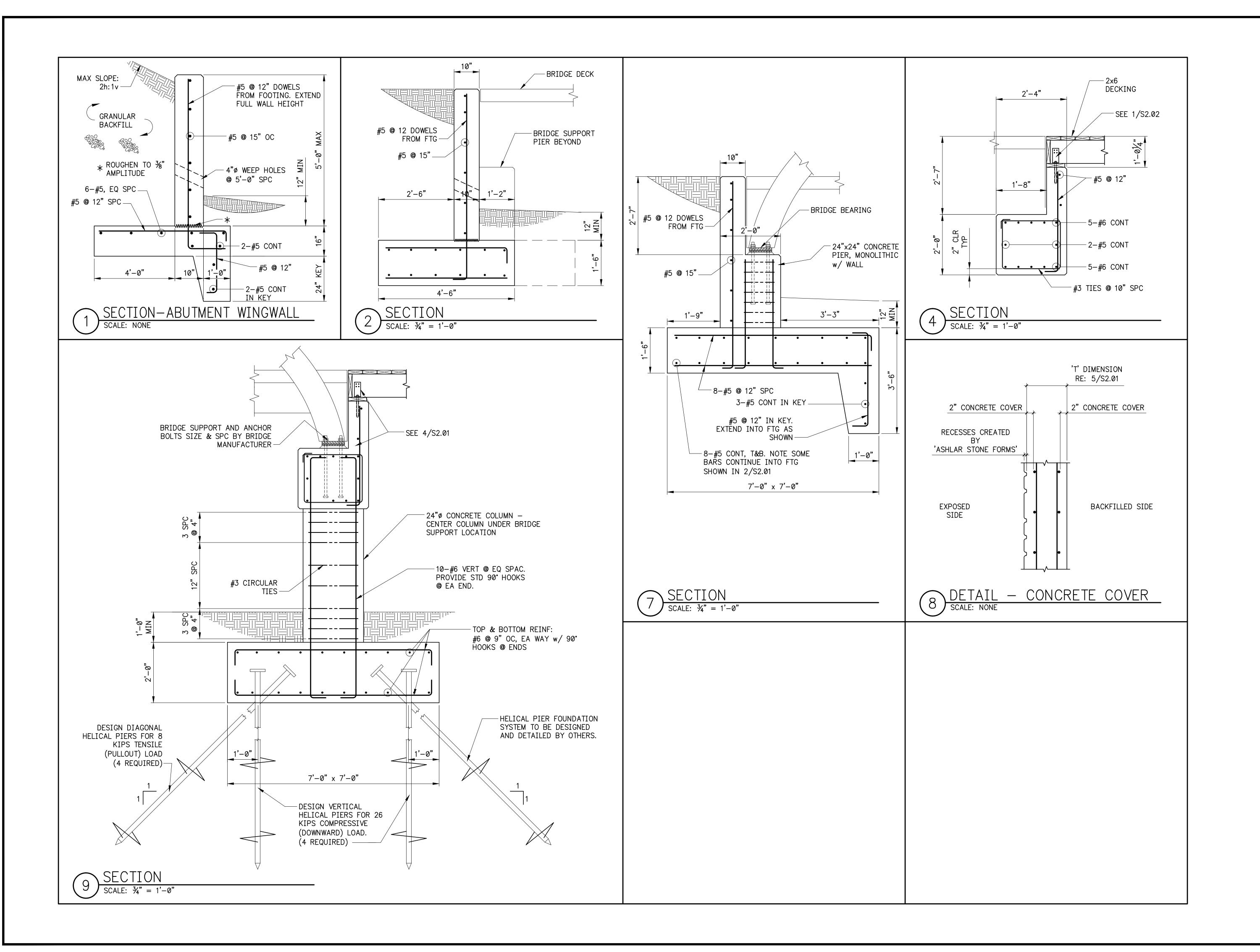


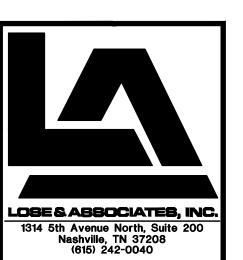
REVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTI BY
∕cî\	01-09-15	EMC	ADDRESS COMMI
ISS	UED FO	R BID	02/25/201

SHEET TITLE

FOUNDATION PLAN FRAMING PLAN BOARDWALK #2

12185-2 | 11/10/2014 DRAWN BY CHECKED BY

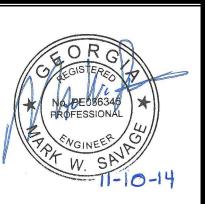




220 W. Crogan St. Suite 100 Lawrenceville, GA 30046 (770) 338-0017 THIS DRAWING AND THE DESIGN SHOWN
IS THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF
THIS DRAWING WITHOUT THEIR WRITTEN
CONSENT IS PROHIBITED AND ANY
INFRINGEMENT IS SUBJECT TO LEGAL

STRUCTURAL ENGINEERS, P.C. 4525 Trousdale Drive Nashville, Tennessee 37204 (615) 781–8199 (615) 781–4088 (fax)

EMC Project No. 14370



338

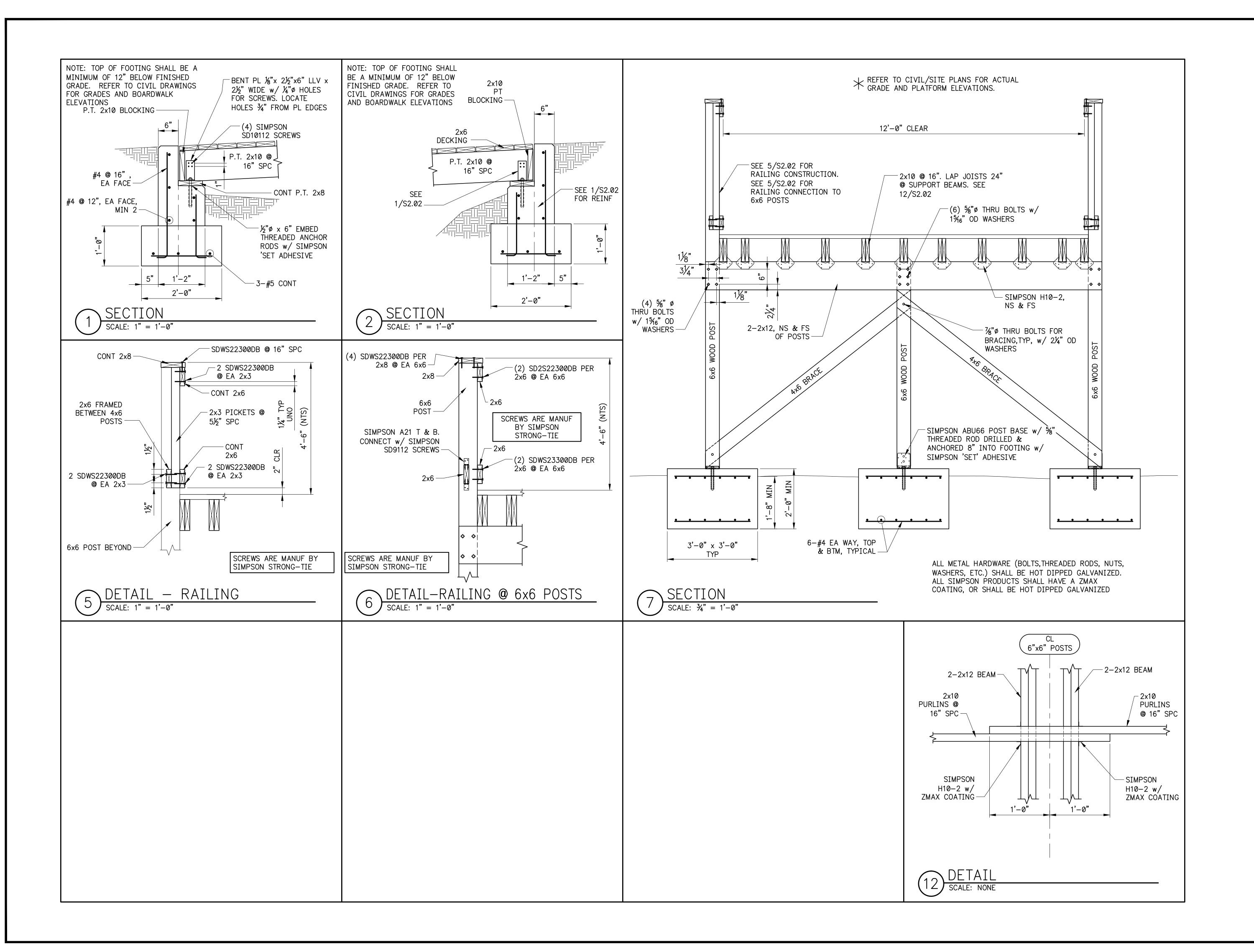
HASE III DDY, GA 30338 3-354-01-005, AND 18-344-01-003 GEORGIA | - F ), DUNWOC IICT PIN: 18 14-01-010, OODY,

			18-3
REVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTED BY
ISS	UED FO	R BID	02/25/2015
SHEE	T TITLE		

SECTIONS AND **DETAILS** 

PROJECT NUMBER DATE 12185-2 11/10/2014 CHECKED BY

SHEET NUMBER S2.01





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

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL

ERAC STRUCTURAL ENGINEERS, P.C. 4525 Trousdale Drive Nashville, Tennessee 37204 (615) 781–8199 (615) 781–4088 (fax)

EMC Project No. 14370



388 | - P DUNWOOL SICT PIN: 18-14-01-010, A OODY, (

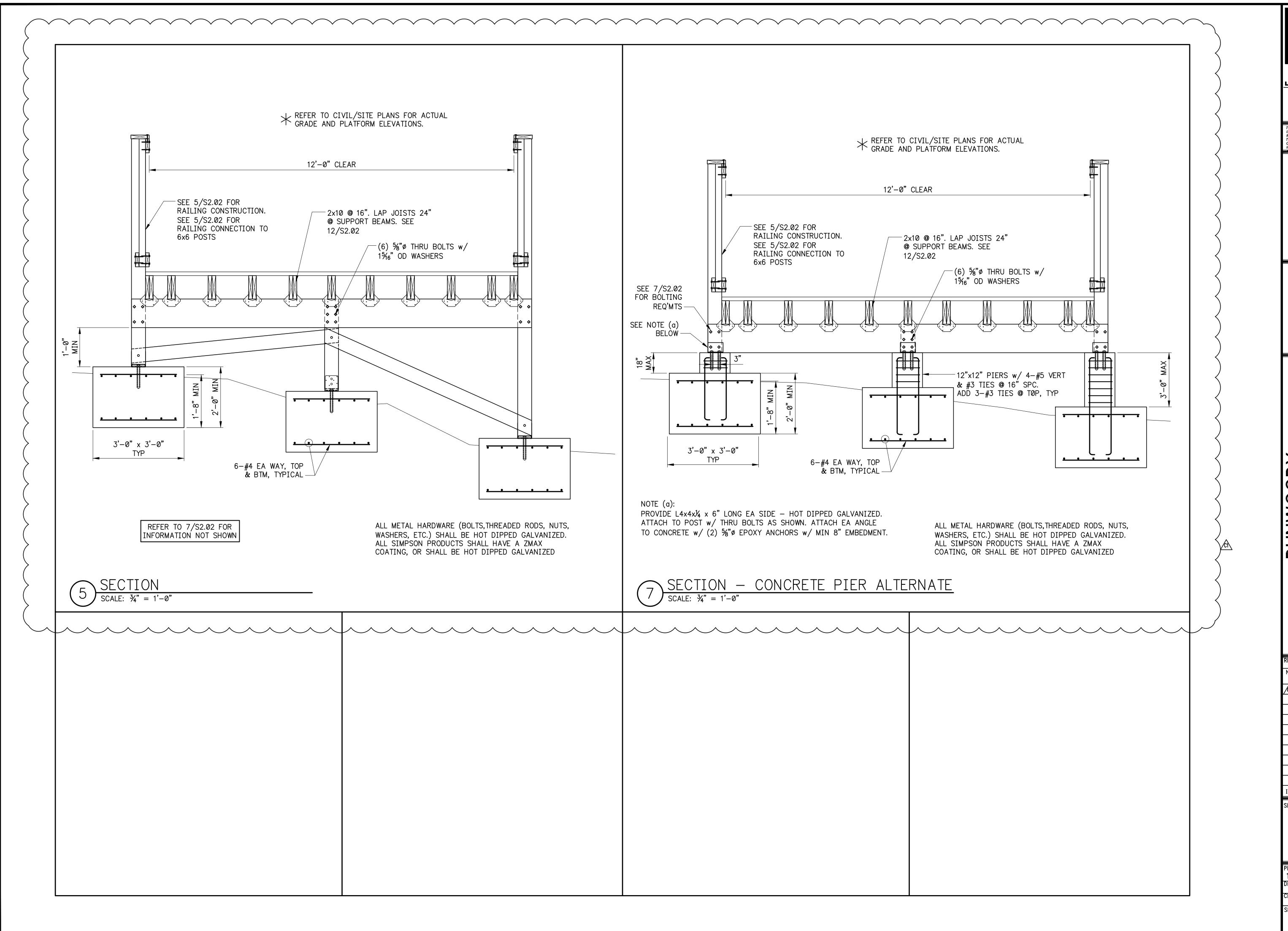
REVIS	SIONS		
NO.	DATE	INITIAL BY	REQUESTED BY
ISS	UED FO	R BID	02/25/2015
SHEE	T TITLE		
	SECT	IONS	AND

PROJECT NUMBER DATE 12185-2 11/10/2014

**DETAILS** 

CHECKED BY SHEET NUMBER

S2.02



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

THIS DRAWING AND THE DESIGN SHOWN
IS THE PROPERTY OF THE ARCHITECT.
REPRODUCTION, COPYING, OR USE OF
THIS DRAWING WITHOUT THEIR WRITTEN
CONSENT IS PROHIBITED AND ANY
INFRINGEMENT IS SUBJECT TO LEGAL

ERAC STRUCTURAL ENGINEERS, P.C. 4525 Trousdale Drive Nashville, Tennessee 37204 (615) 781–8199 (615) 781–4088 (fax)

EMC Project No. 14370



388

NO. DATE INITIAL REQUESTED BY CT 01-09-15 EMC ADDRESS COMMENTS

**ISSUED FOR BID 02/25/2015** 

SHEET TITLE SECTIONS AND **DETAILS** 

PROJECT NUMBER DATE 12185-2 11/10/2014 CHECKED BY

SHEET NUMBER

### 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.

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.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH

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 FOR THIS PROJECT IS AS FOLLOWS:

NAME	:	
COMPANY	:	
ADDRESS	:	
TELEPHONE	#:	

#### SOILS AND FOUNDATIONS

FOR REVIEW.

#### CONTRCTOR SHALL PERFORM THE FOLLOWING:

- 1. PROVIDE DRAWINGS AND DETAILS, STAMPED AND SIGNED BY
- PROFESSIONAL ENGINEER, OF HELICAL PILE FOUNDATION SYSTEM. 2. PROVIDE TESTING REPORTS CONFIRMING HELICAL PILES MEET OR EXCEED THE LOAD CAPACITY REQUIREMENTS NOTED IN THESE DRAWINGS. COPIES OF THE TEST REPORTS SHALL BE KEPT AT THE JOB SITE AT ALL TIMES

#### SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. CONFIRM THAT HELICAL PILES HAVE BEEN INSTALLED PER PLANS AND
- SHOP DRAWINGS. 2. REVIEW TESTING REPORTS CONFIRMING HELICAL PILES MEET OR EXCEED
- THE LOAD CAPACITY REQUIREMENTS NOTED IN THESE DRAWINGS. 3. CONFIRM BACKFILL MATERIALS ARE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND HAVE BEEN PROPERLY COMPACTED PER THE GEOTECHNICAL
- 4. OBSERVER PROOFROLLING
- 5. PERFORM FIELD DENSITY TEST TO VERIFY COMPACTION OF STRUCTURL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED
- 6. 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 FOLLOWING:
  - A. TYPE AND QUANTITIES OF MATERIALS
  - SLUMP
  - AIR CONTENT
  - FRESH UNIT WEIGHT AGGREGATES SIEVE ANALYSIS
  - DESIGN COMPRESSIVE STRENGTH
- G. LOCATION OF PLACEMENT IN STRUCTURE 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 MIXED.
- 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 75 CUBIC YARDS OF EACH MIX DESIGN PLACED IN ANY ONE DAY. FOR EACH SET MOLDED, RECORD:
- A. SLUMP
- B. AIR CONTENT UNIT WEIGHT
- TEMPERATURE, AMBIENT, AND CONCRETE
- LOCATION OF PLACEMENT
- F. ANY PERTINENT INFORMATION, SUCH AS ADDITION OF WATER, ADDITION OF ADMIXTURES, ETC.

PERFORM ONE 7-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 2012 INTERNATIONAL BUILDING CODE 2014 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.
- BASIC WIND SPEED (3 SEC. GUST): 115 MPH OCCUPANCY CATEGORY (PER ASCE 7-10): II IMPORTANCE FACTOR, Iw: EXPOSURE CATEGORY:

### 7. SEISMIC DATA:

```
IMPORTANCE FACTOR,
SEISMIC USE GROUP:
OCCUPANCY CATEGORY (PER ASCE 7-10):
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
   Ss = 0.1994
    S_1 = 0.0928
SITE CLASS:
SPECTRAL RESPONSE COEFFICIENTS:
    S_{DS} = 0.213
    S_{D1} = 0.148
DESIGN CATEGORY:
RESPONSE COEFFICIENT, Cs = Sps/R
```

HANDRAILS -8. SPECIAL LOADS: 50 PLF 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 PER TABLE 1704.4 CONCRETE:

#### 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

- 1. THE FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL REPORT PREPARED BY GEO-HYDRO ENGINEERS, DATED OCTOBER 14, 2013 (PROJECT NO. 140545.20)
- 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'-0" MINIMUM BELOW FINISHED GRADE.
- 5. 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 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

### HELICAL PIER FOUNDATION NOTES

- 1. PER THE GEOTECHNICAL REPORT, THE HELICAL PIERS SHALL EXTEND THRU EXISTING FILL AND ALLUVIAL SOILS AND BEAR IN THE MEDIUM DENSE TO DENSE RESIDUAL SOILS OR PARTIALLY WEATHERED ROCK FOR EACH ANCHOR. ACTUAL DEPTHS SHALL BE DETERMINED FROM FIELD TESTING DURING INSTALLATION IN ORDER TO ACHIEVE THE REQUIRED BEARING/TENSILE CAPACITY AND/OR TORQUE OF THE ANCHOR.
- 2. A HELICAL PIER FOUNDATION SUBCONTRACTOR (H-P CONTRACTOR) SHALL BE EMPLOYED BY THE GENERAL CONTRACTOR TO DESIGN AND DETAIL THE HELICAL PIER FOUNDATION SYSTEM. THE H-P CONTRACTOR SHALL TAKE INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT AND LOADING INFORMATION ON THE CONTRACT DOCUMENTS FOR USE IN PREPARING THE HELICAL PIER FOUNDATION DRAWINGS.
- 3. THE HELICAL PIER LAYOUT AND DETAILING DRAWINGS SHALL BE STAMPED AND SIGNED BY THE PROFESSIONAL ENGINEER, REGISTERED IN THE PROJECT STATE, IN RESPONSIBLE CHARGE OF THE HELICAL PIERS PIER FOUNDATION DESIGN AND
- 4. THE HELICAL PIER FOUNDATION DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
- 4.1. HELICAL PIER LAYOUT, INCLUDING PLAN DIMENSIONS AND ELEVATIONS.
- 4.2. DESIGN AND DETAILING OF:
- 4.1. CAP PLATES THAT ARE EMBEDDED IN THE CONCRETE FOUNDATIONS. 4.2. THE DESIGN AND/OR SPECIFYING OF ALL CONNECTION HARDWARE (BOLTS, NUTS, PLATES, ANGLES, ETC.) USED IN THE HELICAL PIER FOUNDATION SYSTEM.
- 5. REFER TO STRUCTURAL DRAWINGS' DETAILS AND SECTIONS FOR DESIGN LOADS FOR THE HELICAL PIERS.
- 6. CONTRACTOR SHALL CONFIRM EXISTING GRADE ELEVATIONS AND COORDINATE TOP OF FOOTING ELEVATIONS.

### REINFORCED CONCRETE

- 1. 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
- SHALL BE: 3.1. BOARDWALKS' FOOTINGS - 3000 PSI 3.2. BRIDGE ABUTMENTS, FOUNDATIONS - 4000 PSI 3.3. WALLS, PIERS, BEAMS - 4000 PSI
- 4. ALL CONCRETE SHALL BE AIR-ENTRAINED.

3.4. SITE CONCRETE — SEE CIVIL DRAWINGS

- 5. LAP SPLICES FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318-09, UNLESS NOTED OTHERWISE.
- 6. CLEAR CONCRETE COVER FOR REINFORCING STEEL SHALL BE: 6.1. FOOTINGS CAST AGAINST SOIL OR ROCK -6.2. FOOTING CAST AGAINST FORMS 6.3. WALLS
- 7. LONGITUDINAL REINFORCING IN FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS.

8. MECHANICAL VIBRATORS SHALL BE USED TO VIBRATE ALL CONCRETE.

- 9. CHAMFER EXPOSED CORNERS OF WALLS 3/4".
- 10. EXPOSED FACES OF WALLS SHALL BE FORMED WITH 'ASHLAR STONE FORMS' AS MANUFACTURED BY WALL-TIES & FORMS, INC.
- 11. 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

- ALL FRAMING MEMBERS SHALL BE SOUTHERN YELLOW PINE, 19% MOISTURE CONTENT UNLESS OTHERWISE NOTED, AND THE FOLLOWING GRADES:
- 1.1. 2x MEMBERS: NO. 2 1.2. 6X6 MEMBERS: SELECT STRUCTURAL
- 2. ALL FRAMING MEMBERS SHALL BE PRESSURE TREATED, RATED FOR GROUND CONTACT.
- 3. ALL METAL CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE, INC, OR EQUIVALENT.
- 4. ALL SCREWS USED IN WOOD CONNECTIONS SHALL BE 'SDWS' 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.

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

LOSE&ASSOCIATES. INC

1314 5th Avenue North, Suite 200

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY NETINGEMENT IS SUBJECT TO LEGAL

ERAC STRUCTURAL ENGINEERS, P.C.

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

EMC Project No. 14370



■ ∞ O m o WOO PRAIL E ROAD, DISTRIC 1, 18-344 JSE PEACE S 686 3-34/

> REVISIONS NO. DATE | INITIAL | REQUESTED BY

· ω & —

SHEET TITLE STRUCTURAL GENERAL NOTES / SPECIAL INSPECTION PLAN

ISSUED FOR BID 02/25/201

PROJECT NUMBER DATE 12185-2 | 11/10/2014 CHECKED BY

SHEET NUMBER S3.01