

FORESITE GROUP, INC.

ADDENDUM #2

5185 Peachtree Parkway, Suite 240
Norcross, Georgia 30092
P | 770.368.1399
F | 770.368.1944

TO: All Plan Holders & Interested Parties
FROM: Foresite Group, Inc.
PAGES: Four (4)
DATE: November 21, 2013
SUBJECT: City of Dunwoody Parks & Recreation Department
Brook Run Dog Park
Addendum #2

ATTACHMENTS:

BRDP_fixture_schedule.pdf
BRDP_hardware_schedule.pdf
G-1 Cover
G-2 General Notes
G-2.1 General Notes
V-1 Survey
C-0 Demolition Plan
C-2 Grading & Drainage Plan
C-3.1 Storm Drainage Profiles
C-4 Initial Erosion & Sediment Control Plan
C-7 Utilities Details

The following addendum covers questions discussed during the pre-bid meeting held on November 14th, and questions submitted to Purchasing before the deadline for questions ended at close of business on November 19, 2013.

Pre-Bid Meeting Discussions:

1. It is important to visit site.
2. Date for bid submittal changed from "December 2, 2013" to "December 3, 2013"

Plans:

1. ALL SITE DESIGN SHEETS
 - Delete all instances of “DESIGN DEVELOPMENT”.
 - Delete all instances of “NOT RELEASED FOR CONSTRUCTION”.
2. GENERAL NOTES (G-2 & G-2.1)
 - Insert in entirety (Attached)
3. SURVEY (V-1)
 - Insert in entirety (Attached)
4. DEMOLITION PLAN (C-0)
 - Insert Plan in entirety (Attached)
5. SITE & PAVING PLAN (C-1)
 - Replace Note: “*MOST DEPENDABLE FOUNTAIN YARD HYDRANT MODEL #MDF24SM AND STAINLESS STEEL BOWL FOR CANINE WATER ACCESS (TYP.)*” with “*MOST DEPENDABLE FOUNTAIN 400 SERIES MODEL #410S W/ PET FOUNTAIN, OR EQUAL (TYP.)*” or *Approved Alternate*
6. GRADING AND DRAINAGE PLAN (C-2)
 - Insert Plan in entirety (Attached)
7. UTILITIES PLAN (C-3)
 - Add note to plan: “*City of Dunwoody will install RPZs at all water meter locations on the Brook Run Park property*”
8. STORM DRAINAGE PROFILES (C-3.1)
 - Insert plan in entirety (Attached)
9. INITIAL EROSION AND SEDIMENT CONTROL SHEETS (C-4)
 - Insert plan in entirety. (Attached)
10. UTILITIES DETAILS (C-7)
 - Insert plan in entirety (Attached)

Questions/Answers:

- 1) *The sanitary sewer connection shows a rim elevation @connection, but it also says that the D.I. assumed to be there. Does a manhole exist?*

We are assuming that the existing sanitary sewer line runs along the dashed location shown on the Utility Plan (the survey did not pick it up to that location.) That assumption is stated on the Utility Plan. The contractor must confirm the location of

the existing sanitary sewer line prior to construction. No manhole exists at the tie in location - a new cleanout is needed. The rim elevation in question is further downstream of the tie in location.

- 2) *Will all permit/connection fees be paid by Dunwoody?*
Yes, permit/connection fees will be paid for by Dunwoody
- 3) *Specs for fixtures in restroom*
See attachment: BRDP Fixture Schedule
- 4) *Floor finish in restroom?*
Provide a liquid applied single-component, moisture-cured traffic coating system at all interior concrete slabs
- 5) *Can emt be fastened to interior block walls or does it need to run through block walls?*
The conduit would need to be run through the block walls
- 6) *Page A2.1 detail of side elevation 2/A2.1 shows 6x8 timber trellis. Please provide details.*
Trellis is not part of this scope.
- 7) *Does Dunwoody have an area where we could dump asphalt/gravel that has been removed?*
No, asphalt/gravel waste and other demolition material must be hauled off site.
- 8) *Please give specs for Topsoil. The plans say that it has to be approved by you.*
Topsoil: Where required shall be a natural, fertile, friable soil, possessing characteristics of representative productive soils in the vicinity. It shall be obtained from naturally well-drained areas, free from substances harmful to plant growth, and free from clay lumps, stones, stumps, roots, or similar substances two inches or more in diameter. The source and material shall be approved by the owner's representative before placing on site. Topsoil shall be free from noxious grass and weeds.
- 9) *Door Hardware for restroom building*
See attachment: BRDP Hardware Schedule
- 10) *Do all paths/fencing need to be surveyed or can we work with project manager as to locations?*
Outside of the area surrounding the restroom, the paths and fencing locations should be placed in line with what are shown in the plans, but they do not have to be surveyed. Contractor is to work with project manager to field locate the fencing. Due to the nature of the project, fencing installation may require on-site adjustments.
- 11) *I am still in need of the specifications. I am particularly looking for the specs on the fencing.*
Please see attached sheet: G-2.1 General Notes
- 12) *My assumption from looking at the plans is all of the fencing is new fence so is my assumption correct?*

The City intends to install new fencing for this project. This is subject to change based on the bids that are received.

13) *The addendum that I received also was not real clear as to what changes were taking place. Can you clarify what the addendum is changing or if it has any effect on the fencing or is it for something else?*

Please see attached plans and information provided with this addendum.

14) *What gauge line posts for chain link fence? 20 or 40 gauge.*

See answer to #11 (Gauge does not apply – see ASTM F 1043)

15) *The dog fountain on specs does not include or provide for stainless bowl. You need to change model number.*

See changes to C-1 Site plan

16) *Can you please provide a specification for the fencing, to include gauges, post sizes and weights, gate hardware specs, etc?*

Please see attached sheet: G-2.1 General Notes

Project Start Time:

Change from:

The selected contractor must be able to start work within 10 calendar days after the “Notice to Proceed” is issued. The time of completion for the project is as follows: **180** available days from the “Notice to Proceed” for substantial completion and an additional **60** days for final acceptance.

Change to:

The selected contractor must be able to start work within 10 calendar days after the “Notice to Proceed” is issued. The time of completion for the project is as follows: **120** available days from the “Notice to Proceed” for substantial completion and an additional **30 days** for final acceptance.

END OF ADDENDUM 2

BROOK RUN DOG PARK RESTROOM

PLUMBING FIXTURE SCHEDULE

- WC Water Closet, Wall Mounted Flush Valve (ADA) -- Zurn Z5615.258.00 High Efficiency Toilet System (or approved equal), White vitreous china. Include Z6000HE-VET flush valve (or approved equal). Include BEMS 1500EC seat (or approved equal). Provide wall carrier as required by manufacturer.
- LAV Lavatory, Wall Mounted (ADA) -- Z5640 20"x18" enameled cast iron (or approved equal). Include Z7440FC single lever ADA faucet. Include heavy duty mounting bracket, ADA trap, stops, under fixture protectors, grid strainer, and other accessories as required.
- DF Drinking Fountain, Dual Level (ADA), Wall Mounted, stainless steel -- Haws 1011 (or approved equal). Provide push button operators, wall support carrier, and under skirt as required for ADA
- WH See plumbing drawings

BROOK RUN DOG PARK RESTROOM FACILITY

DOOR HARDWARE SCHEDULE

Restroom Entries:

Set #1	Push/Pull	Rockwood 70C/107x70C	1 set ea. door
	Closer	Dorma 8916AF89P	1 each door
	Hinges	Stanley FBB 191 NRP 4.5"	3 each door
	Deadbolt	Falcon D111-P (cylinder provided by owner)	1 each door
	Kickplate	Rockwood K1050	1 each door

Storage Room Entry:

Set #2	Lockset	Falcon T351	1 set ea. door
	Hinges	Stanley FBB 191 NRP 4.5"	3 each door
	Deadbolt	Falcon D111-P (cylinder provided by owner)	1 each door

Note: All hardware to have bronze (613 or equal) finish.

SITE DEVELOPMENT PLANS FOR:

BROOK RUN DOG PARK CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT, ZONED: R-85

SHEET INDEX

- G-1 COVER
- G-2 GENERAL NOTES
- G-2.1 GENERAL NOTES
- V-1 SURVEY
- C-0 DEMOLITION PLAN
- C-1 SITE & PAVING PLAN
- C-2 GRADING & DRAINAGE PLAN
- C-3 UTILITIES PLAN
- C-3.1 STORM DRAINAGE PROFILES
- C-4 INITIAL EROSION & SEDIMENT CONTROL PLAN
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- C-4.2 FINAL EROSION & SEDIMENT CONTROL PLAN
- C-4.3 EROSION CONTROL NOTES
- C-5 PAVING DETAILS
- C-6 CONSTRUCTION DETAILS
- C-7 UTILITIES DETAILS
- C-8 EROSION CONTROL DETAILS
- C-8.1 EROSION CONTROL DETAILS
- L-1 LANDSCAPE PLAN
- C ARCHITECTURAL COVER
- A-1.1 FLOOR PLAN
- A-2.1 ELEVATIONS AND DETAILS
- S-1 SCHEDULE OF INSPECTIONS
- M-1 HVAC NOTES, ETC.
- M-2 HVAC FLOOR PLAN
- E-0.1 ELECTRICAL LEGEND, SYMBOLS, AND GENERAL NOTES
- E-1.1 ELECTRICAL POWER PLAN
- E-2.1 ELECTRICAL SPECIFICATIONS
- P-1 PLUMBING NOTES
- P-2 PLUMBING PLANS

ACTIVITY	BEGIN CONSTRUCTION - 12/1/2013 END CONSTRUCTION - 4/1/2014			
	1.0 MTH	2.0 MTH	3.0 MTH	4.0 MTH
1 INITIAL EROSION CONTROL BMP INSTALLATION				
2 INTERMEDIATE EROSION CONTROL BMP INSTALLATION				
3 FINAL PHASE EESC PRACTICES				
4 MAINTENANCE OF EESC PRACTICES				
5 DEMOLITION				
6 CLEARING AND GRUBBING				
7 GRADING				
8 STORM & SANITARY SEWER INSTALLATION				
9 PAVING				
10 BUILDING CONSTRUCTION				
11 TEMPORARY GRASSING				
12 PERMANENT GRASSING				
13 TEMPORARY GRASSING @ 14 DAY INTERVALS				
14 PERMANENT GRASSING @ 30 DAY INTERVALS				
15 FINAL CLEAN UP				

PREPARED BY:



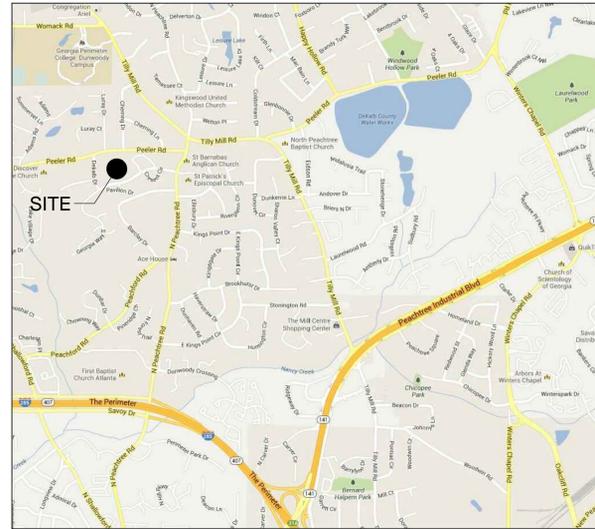
24 HR CONTACT:
BRENT WALKER
(678) 382-6700

ISSUED:
AUGUST 10, 2013
487.001

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION. THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING INITIAL BMP'S ARE INSTALLED PROPERLY. ALL COMPENSATION FOR DESIGN ENGINEER'S REINSPECTION TO VERIFY THAT THE INITIAL BMP'S ARE PROPERLY INSTALLED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



VICINITY MAP
NOT TO SCALE

SITE DISTURBED AREA = 1.6 AC.



THIS SITE IS NOT LOCATED WITHIN A ZONE A, AE, OR SHADED ZONE X AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13121C FOR UNINCORPORATED DEKALB COUNTY, GEORGIA.

PROJECT DIRECTORY

OWNER/DEVELOPER
CITY OF DUNWOODY PARKS & RECREATION
41 PERIMETER CENTER EAST, SUITE 250
DUNWOODY, GA 30346
(678) 382-6700
CONTACT: MR. BRENT WALKER

LANDSCAPE ARCHITECT/CIVIL ENGINEER
FORESITE GROUP, INC.
5185 PEACHTREE PKWY., SUITE 240
NORCROSS, GA 30092
(770) 368-1399
CONTACT: JASON WECKERLY

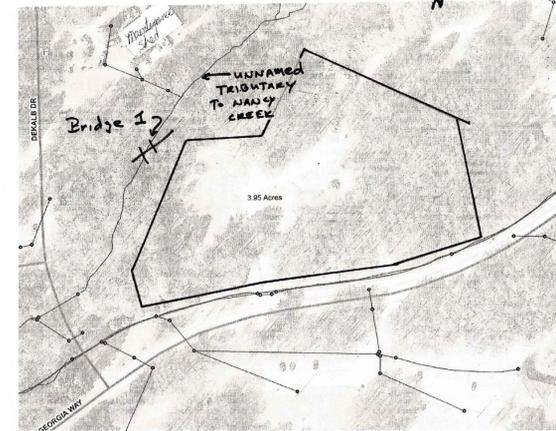
ARCHITECT
KACENA DESIGN, LLC
2944 RIDGELock CT.
ATLANTA, GA 30360
(404) 803-3869
CONTACT: MR. CHRIS KACENA

SURVEYOR
GEOSURVEY, LTD.
1660 BARNES MILL RD.
MARIETTA, GA 30062
(77) 795-9900
CONTACT: MR. DAVID HESTER

UTILITY PROVIDERS

WATER & SEWER SERVICE PROVIDER
DEKALB DEPT. OF WATERSHED
MANAGEMENT
1580 ROADHAVEN DRIVE
STONE MOUNTAIN, GA 30083
(770) 621-7200
CONTACT: MR. RUDOLPH A. CHEN

ELECTRICAL SERVICE PROVIDER
GEORGIA POWER
1841 CHAMBLEE TUCKER RD. SUITE 1-1A
CHAMBLEE, GA 30341
(770) 216-1313
CONTACT: MR. J.C. PORCH



PROPERTY LOCATION AND ADJACENT UNNAMED TRIBUTARY NORTH OF THE SITE.

CERTIFICATION STATEMENT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' (MANUAL PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED), PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001. ADDITIONALLY, 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."

SIGNATURE OF ENGINEER: *[Signature]* DATE: 11/4/13
1575 04/22/2014
CERTIFICATION # EXPIRATION

"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."

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (PLAN) WAS PREPARED BY A DESIGN PROFESSIONAL, AS DEFINED BY THE PERMIT, THAT HAS COMPLETED THE APPROPRIATE CERTIFICATION COURSE APPROVED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-19 AND THAT I WILL ADHERE TO THE PLAN AND COMPLY WITH ALL REQUIREMENTS OF THIS PERMIT."

SIGNATURE OF OWNER: *[Signature]* DATE: 11/20/13

ENGINEER:

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PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

REVISIONS	DATE
ADDENDUM #1	11/20/2013

PROJECT MANAGER: JWV
DRAWING BY: NJP
JURISDICTION: DUNWOODY, GA
DATE: 10 AUGUST 2013
SCALE: AS SHOWN
TITLE:

COVER

SHEET NUMBER:
G-1

COMMENTS:

JOB/FILE NUMBER: 487.001

GENERAL NOTES

- A. DESIGN DATA PROVIDED IN ELECTRONIC FORMAT IS FOR INFORMATION PURPOSES ONLY AND SHOULD BE USED AT YOUR OWN RISK, AND IS PROVIDED WITHOUT REPRESENTATIONS AND WARRANTIES. ANY CONFLICT BETWEEN THE INFORMATION REFLECTED ON THE LATEST REVISION OF THE SEALED PLAN SHEETS AND THAT PROVIDED VIA ELECTRONIC FORMAT SHALL BE RESOLVED IN FAVOR OF THE SEALED PLAN SHEETS.
B. UTILITIES: THERE MAY BE ADDITIONAL EXISTING UTILITIES NOT SHOWN ON THESE PLANS. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN. FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. NOTIFY THE OWNER AND ENGINEER IF DISCREPANCIES ARE FOUND THAT WILL AFFECT THE CONSTRUCTION PROJECT. PROTECT ALL EXISTING UTILITIES.
C. TEMPORARY PROVISIONS: SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NEEDED TO MAINTAIN ACCESS PER OWNER'S REQUIREMENTS IF ANY, TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE.
D. EQUIPMENT STORAGE: DO NOT PARK EQUIPMENT OR STORE MATERIALS IN STATE, COUNTY, OR CITY RIGHT-OF-WAY.
E. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.
F. OBTAIN ALL REQUIRED CONSTRUCTION RELATED PERMITS, INCLUDING DEMOLITION PERMIT, BEFORE STARTING WORK. RETAIN COPIES OF ALL PERMITS AT THE PROJECT SITE AT ALL TIMES.
G. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
H. SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THE GENERAL DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ON-SITE SIGNAGE.
I. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.
J. COMPLY WITH ALL APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS UNLESS DEPARTMENT OF TRANSPORTATION STANDARDS OR LOCAL MUNICIPAL STANDARDS ARE MORE STRINGENT.
K. DO NOT VIOLATE THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
L. WORK WITHIN D.O.T. RIGHT-OF-WAY:
1. ALL PAVEMENT MARKINGS WITHIN D.O.T. RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH D.O.T. SPECIFICATIONS.
2. RE-ESTABLISH ALL RIGHT-OF-WAY AREA, WHICH IS DAMAGED OR DISTURBED, TO ORIGINAL CONDITION OR BETTER.
3. ALL WORK IN D.O.T. RIGHT-OF-WAY SHALL COMPLY WITH D.O.T. SPECIFICATIONS.
M. ARRANGE HIGH INTENSITY LIGHTING TO CONCEAL THE SOURCE OF LIGHT FROM PUBLIC VIEW AND PREVENT INTERFERENCE WITH TRAFFIC.
N. ENSURE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES BEFORE BEGINNING WORK. NOTIFY ENGINEER IF DISCREPANCIES EXIST.

TRAFFIC CONTROL

- A. IF DRAWINGS DO NOT INDICATE SITE SPECIFIC TRAFFIC CONTROL MEASURES, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TEMPORARY TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
B. ALL TEMPORARY TRAFFIC CONTROL, SIGNAGE AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD, LATEST EDITION.
C. CONTACT PROPERTY OWNERS TO BE AFFECTED BY CONSTRUCTION AND COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.
D. CONTROL DUST AS NECESSARY TO PREVENT INTERFERENCE WITH TRAFFIC.
E. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
F. COORDINATE ALL LANE CLOSURES WITH THE LOCAL JURISDICTION HAVING AUTHORITY.

STRUCTURE & SITE DEMOLITION

- A. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS.
B. VERIFY THAT HAZARDOUS MATERIALS HAVE BEEN REMEDIATED BEFORE PROCEEDING WITH BUILDING DEMOLITION OPERATIONS.
C. ENVIRONMENTAL & GEOTECHNICAL REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AN BECOME FAMILIAR WITH ALL ISSUES BEFORE DEMOLITION.
D. EXISTING UTILITIES: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED.
1. ARRANGE TO SHUT OFF INDICATED UTILITIES WITH UTILITY COMPANIES.
2. DO NOT COMMENCE DEMOLITION OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENT CONTROL AND PLANT PROTECTION MEASURES ARE IN PLACE.
3. OBTAIN THE DEMOLITION PERMIT FROM THE LOCAL AUTHORITY PRIOR TO STARTING DEMOLITION ACTIVITIES.
4. EXISTING FACILITIES: PROTECT ADJACENT WALKWAYS AND OTHER FACILITIES DURING DEMOLITION OPERATIONS. MAINTAIN EXITS FROM EXISTING BUILDINGS. PROMPTLY REPAIR ANY FACILITIES DAMAGED BY CONSTRUCTION OPERATIONS TO OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
5. EXISTING UTILITIES: MAINTAIN UTILITY SERVICES TO REMAIN AND PROTECT FROM DAMAGE DURING DEMOLITION OPERATIONS.
6. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND AS INDICATED.
7. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.
8. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FROM OWNER AND ENGINEER.
9. DO NOT BURN DEMOLISHED MATERIALS UNLESS SPECIAL WRITTEN PERMISSION IS OBTAINED FROM OWNER AND ENGINEER.
10. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE BUILDING DEMOLITION OPERATIONS BEGAN

SITE CLEARING

- 1.) PROJECT CONDITIONS
A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE CLEARING OPERATIONS.
B. ENVIRONMENTAL & GEOTECHNICAL REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AND BECOME FAMILIAR WITH ALL ISSUES BEFORE SITE CLEARING.
C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.
D. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL AND PLANT-PROTECTION MEASURES ARE IN PLACE.
2.) TEMPORARY EROSION AND SEDIMENTATION CONTROL
A. PROVIDE TEMPORARY EROSION- AND SEDIMENTATION-CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO EROSION- AND SEDIMENTATION-CONTROL DRAWINGS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
B. VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS PROTECTION ZONES.
C. INSPECT, MAINTAIN, AND REPAIR EROSION- AND SEDIMENTATION-CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
D. REMOVE EROSION AND SEDIMENTATION CONTROLS WHEN SITE IS STABILIZED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.
3.) TREE AND PLANT PROTECTION
A. REPAIR OR REPLACE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR BE RELOCATED THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER APPROVED BY ENGINEER.
4.) EXISTING UTILITIES
A. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP UTILITIES INDICATED TO BE REMOVED OR ABANDONED IN PLACE. ARRANGE WITH UTILITY COMPANIES TO SHUT OFF INDICATED UTILITIES.
B. INTERRUPTING EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED:
1. NOTIFY UTILITY OWNER NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
2. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT UTILITY OWNER'S WRITTEN PERMISSION.
C. POTHOLE EXISTING WATER LINES, UNDERGROUND ELECTRICAL LINES, GAS LINES, UNDERGROUND TELEPHONE LINES, FIBER OPTIC, AND ANY OTHER EXISTING UTILITY LINES WITHIN THE PROJECT LIMITS DURING SITE CLEARING AND DEMOLITION ACTIVITIES. SURVEY THE EXISTING UTILITY ELEVATIONS AND PROVIDE THE SURVEYED FIELD LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW. THESE EXISTING UTILITIES MAY REQUIRE RELOCATION.
5.) CLEARING AND GRUBBING
A. REMOVE OBSTRUCTIONS, CONCRETE, ASPHALT, TREES, SHRUBS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION.
1. DO NOT REMOVE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE RELOCATED.
2. GRIND DOWN STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS TO A DEPTH OF 12 INCHES BELOW EXPOSED SUBGRADE.
3. USE ONLY HAND METHODS FOR GRUBBING WITHIN PROTECTION ZONES.
4. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 96% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING CLEARING AND GRUBBING ACTIVITIES.
6.) TOPSOIL STRIPPING
A. REMOVE SOIL AND GRASS BEFORE STRIPPING TOPSOIL.
B. STRIP TOPSOIL IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
C. STOCKPILE TOPSOIL AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST AND EROSION BY WATER.
D. DISPOSE OF SURPLUS TOPSOIL. SURPLUS TOPSOIL IS THAT WHICH EXCEEDS QUANTITY INDICATED TO BE STOCKPILED OR REUSED.

SITE WATER DISTRIBUTION

- 1.) GENERAL
A. REGULATORY REQUIREMENTS
1. COMPLY WITH REQUIREMENTS OF UTILITY COMPANY SUPPLYING WATER. INCLUDE TAPPING OF WATER MAINS AND BACKFLOW PREVENTION.
2. COMPLY WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR POTABLE WATER-SERVICE PIPING, INCLUDING MATERIALS, INSTALLATION, TESTING, AND DISINFECTION.
B. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.
C. INTERRUPTION OF EXISTING WATER-DISTRIBUTION SERVICE: NOTIFY OWNER AT LEAST 2 DAYS PRIOR TO INTERRUPTION OF EXISTING WATER SERVICES.
D. COORDINATE WITH UTILITY COMPANY FOR REQUIRED INSPECTIONS AND FOR CONNECTION OF WATER MAIN AND SERVICES BEFORE STARTING CONSTRUCTION.
E. PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS PROPOSED FOR INSTALLATION. ALLOW 2 WEEKS FOR REVIEW AND APPROVAL.
2.) COPPER TUBE AND FITTINGS
A. SOFT COPPER TUBE: ASTM B 88, TYPE K, WATER TUBE, ANNEALED TEMPER.
B. COPPER, PRESSURE-SEAL FITTINGS:
1. NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM O-RING SEAL IN EACH END.
2. NPS 2-1/2 TO NPS 4: BRONZE FITTING WITH STAINLESS-STEEL GRIP RING AND EPDM O-RING SEAL IN EACH END.
C. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT END. FURNISH CLASS 300 FLANGES IF REQUIRED TO MATCH PIPE.
D. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL STOCK BODY WITH BALL-AND-SOCKET, METAL-TO-METAL SEALING SURFACES, AND SOLDER-JOINT OR THREADED END.
3.) DUCTILE-IRON PIPE AND FITTINGS
A. DUCTILE-IRON PIPE: AWWA C151, WITH MECHANICAL-JOINT BELL AND PLAIN SPIGOT END UNLESS GROOVED OR FLANGED ENDS ARE INDICATED.
1. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN.
2. GASKETS, GASKETS, AND BOLTS: AWWA C111, DUCTILE- OR GRAY-IRON GLANDS, RUBBER GASKETS, AND STEEL BOLTS.
B. PUSH-ON-JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH PUSH-ON-JOINT BELL AND PLAIN SPIGOT END UNLESS GROOVED OR FLANGED ENDS ARE INDICATED.
C. FLANGES: ASME 16.1, CLASS 125, CAST IRON.
4.) PVC PIPE AND FITTINGS
A. PVC, SCHEDULE 40 PIPE: ASTM D 1785, PVC, SCHEDULE 40 SOCKET FITTINGS: ASTM D 2466.
B. PVC, AWWA PIPE: AWWA C900, CLASS 200, WITH BELL END WITH GASKET AND WITH SPIGOT END.
C. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN.
5.) GATE VALVE ACCESSORIES AND SPECIALTIES
A. TAPPING-SLEEVE ASSEMBLIES: SLEEVE AND VALVE COMPATIBLE WITH DRILLING MACHINE.
1. STANDARD: MSS SP-40.
2. STRIP TOPSOIL: AWWA C900, CLASS 200, WITH BELL END WITH GASKET AND WITH SPIGOT END. SLEEVE WITH FLANGED OUTLET FOR NEW BRANCH CONNECTION. INCLUDE SLEEVE MATCHING SIZE AND TYPE OF PIPE MATERIAL BEING TAPPED AND WITH RECESSED FLANGE FOR BRANCH VALVE.
3. VALVE: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEATED GATE VALVE WITH ONE RAISED FACE FLANGE MATING TAPPING-SLEEVE FLANGE.
B. VALVE BOXES: COMPLY WITH AWWA M44 FOR CAST-IRON VALVE BOXES. INCLUDE TOP SECTION, ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE. PLUG WITH LETTERING "WATER", AND BOTTOM SECTION WITH BASE THAT FITS OVER VALVE AND WITH A BARREL APPROXIMATELY 5 INCHES IN DIAMETER.
7.) FIELD QUALITY CONTROL
A. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER CONCRETE THRUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
B. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE- AND ONE-HALF TIMES WORKING PRESSURE FOR TWO HOURS. INCREASE PRESSURE IN 50-PSIG INCREMENTS AND INSPECT EACH JOINT BETWEEN INCREMENTS. HOLD AT TEST PRESSURE FOR 1 HOUR; DECREASE TO 0 PSIG. SLOWLY INCREASE AGAIN TO TEST PRESSURE AND HOLD FOR 1 MORE HOUR. MAXIMUM ALLOWABLE LEAKAGE IS 2 QUARTS PER HOUR PER 100 JOINTS. REMAKE LEAKING JOINTS WITH NEW MATERIALS AND REPEAT TEST UNTIL LEAKAGE IS WITHIN ALLOWED LIMITS.
C. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY, OR, IF METHOD IS NOT PRESCRIBED BY THE LOCAL AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C651.
D. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL.
8.) IDENTIFICATION
A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER-DISTRIBUTION PIPING. LOCATE BELOW FINISHED GRADE, DIRECTLY OVER PIPING.
SITE SANITARY SEWERS
1.) PROJECT CONDITIONS
A. INTERRUPTION OF EXISTING SANITARY SEWERAGE SERVICE: COORDINATE AS REQUIRED WITH THE LOCAL SANITARY SEWER AUTHORITY BEFORE STARTING CONSTRUCTION.
B. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE BEGINNING SANITARY SEWER INSTALLATION OPERATIONS. FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS BY POT-HOLDING THE LINES. SURVEY EXISTING UTILITIES AND PROVIDE HORIZONTAL AND VERTICAL LOCATION INFORMATION TO THE ENGINEER TO DETERMINE OF ANY UTILITIES WILL CONFLICT WITH THE PROPOSED DESIGN.
C. PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS PROPOSED FOR INSTALLATION. ALLOW 2 WEEKS FOR REVIEW AND APPROVAL.
2.) DUCTILE-IRON, GRAVITY SEWER PIPE AND FITTINGS
E. PIPE: ASTM A 746, FOR PUSH-ON JOINTS.
F. COMPACT FITTINGS: AWWA C153, DUCTILE IRON, FOR PUSH-ON JOINTS.
G. GASKETS: AWWA C111, RUBBER.
3.) PVC PIPE AND FITTINGS
A. PVC GRAVITY SEWER PIPING: ASTM F 679, T-1 WALL THICKNESS, PVC GRAVITY SEWER PIPE WITH BELL-AND-SPIGOT ENDS AND WITH INTEGRAL ASTM F 477, ELASTOMERIC SEALS FOR GASKETED JOINTS.
4.) CLEANOUTS
A. CAST-IRON CLEANOUTS:
1. DESCRIPTION: ASME A112.36.2M, ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE AND ROUND, SECURED, SCORATED, GRAY-IRON COVER. INCLUDE GRAY-IRON FERRULE WITH INSIDE CALK OR SPIGOT CONNECTION AND COUNTERSUNK, TAPERED-THREAD, BRASS CLOSURE PLUG.
2. TOP-LOADING CLASSIFICATION: TRAFFIC RATED, HEAVY DUTY, IN ALL PAVED AREAS AND AREAS SUBJECT TO VEHICULAR TRAFFIC.
3. SEWER PIPE FITTING AND RISER TO CLEANOUT: ASTM A 74, SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS.
B. PVC CLEANOUTS: PVC BODY WITH PVC THREADED PLUG. INCLUDE PVC SEWER PIPE FITTING AND RISER TO CLEANOUT OF SAME MATERIAL AS SEWER PIPING. USE IN LIGHT DUTY APPLICATIONS WHERE THERE IS PEDESTRIAN TRAFFIC ONLY OR IN LANDSCAPED AREAS.
5.) MANHOLES
A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. DIAMETER: 48 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS OR ADD CONCRETE TO BASE SECTION, AS REQUIRED TO PREVENT FLOTATION.
4. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, WITH SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
5. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, OF LENGTH TO PROVIDE DEPTH INDICATED.

- 6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED, WITH TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
8. RESILIENT PIPE CONNECTORS: ASTM C 923, CAST OR FITTED INTO MANHOLE WALLS, FOR CAST PIPE CONNECTION.
9. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER: WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF MANHOLE TO FINISHED GRADE IS LESS THAN 48 INCHES.
10. ADJUSTING RINGS: INTERLOCKING HDPE RINGS, WITH LEVEL OR SLOPED EDGE IN THICKNESS AND DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.
11. GRADE RINGS: REINFORCED-CONCRETE RINGS, 6- TO 8-INCH TOTAL THICKNESS, WITH DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE.
B. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER, WITH 4-INCH MINIMUM-WIDTH FLANGE AND 26-INCH DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "SANITARY SEWER."
2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.
6.) IDENTIFICATION
A. ARRANGE FOR INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT OUTSIDE EDGES OF UNDERGROUND MANHOLES.
1. USE WARNING TAPE OR DETECTABLE WARNING TAPE OVER FERROUS PIPING.
2. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING AND COVER EDGES OF UNDERGROUND MANHOLES.
7.) FIELD QUALITY CONTROL
A. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT APPROXIMATELY 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AT COMPLETION OF PROJECT.
1. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
a. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.
b. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5 PERCENT OF PIPING DIAMETER.
c. DAMAGE: CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.
d. INFILTRATION: WATER LEAKAGE INTO PIPING.
e. FILTRATION: WATER LEAKAGE FROM OR AROUND PIPING.
2. REPLACE DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTIONS UNTIL DEFECTS ARE WITHIN ALLOWANCES SPECIFIED.
3. REINSPECT AND REPEAT PROCEDURE UNTIL RESULTS ARE SATISFACTORY.
B. TEST NEW PIPING SYSTEMS, AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, FOR LEAKS AND DEFECTS.
1. DO NOT ENCLOSE, COVER, OR PUT INTO SERVICE BEFORE INSPECTION AND APPROVAL.
2. TEST COMPLETED PIPING SYSTEMS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. SCHEDULE TESTS AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION WITH AT LEAST 24 HOURS ADVANCE NOTICE.
4. SUBMIT A SEPARATE REPORT FOR EACH TEST TO THE ENGINEER FOR APPROVAL.
4. AIR TESTS: TEST SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION UNB-84, AND THE FOLLOWING:
a. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO ASTM F 1417.
6. MANHOLES: PERFORM HYDRAULIC TEST ACCORDING TO ASTM C 969.
C. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
D. REPLACE LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES SPECIFIED.

SITE STORM UTILITY DRAINAGE PIPING

PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS PROPOSED FOR INSTALLATION. ALLOW 2 WEEKS FOR REVIEW AND APPROVAL

- 1.) PIPE AND FITTINGS- GENERAL
A. ALL STORMWATER PIPE, INLETS, HEADWALLS, AND RELATED APPURTENANCES SHALL MEET LOCAL D.O.T. STANDARDS.
B. ALL STORMWATER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS.
2.) STEEL PIPE AND FITTINGS
A. CORRUGATED STEEL PIPE AND FITTINGS: ASTM A 760/A 760M, TYPE 1 WITH FITTINGS OF SIMILAR FORM AND CONSTRUCTION AS PIPE.
1. STANDARD-JOINT BANDS: CORRUGATED STEEL.
2. COATING: ALUMINUM OR BITUMINOUS.
3.) PE PIPE AND FITTINGS
A. CORRUGATED PE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10 - AASHTO M 252M; NPS 12 TO NPS 48 - AASHTO M 294M TYPE 5, WITH SMOOTH WATERWAY FOR COUPLING JOINTS.
B. SILT-TIGHT COUPLINGS: PE SLEEVE WITH ASTM D 1056, TYPE 2, CLASS A, GRADE 2 GASKET MATERIAL THAT MATES WITH TUBE AND FITTINGS.
4.) PVC CORRUGATED PIPE AND FITTINGS
A. CORRUGATED PVC DRAINAGE PIPE AND FITTINGS NPS 4 TO NPS 36: SMOOTH INTERIOR, ASTM F949, 46 PSI STIFFNESS WHEN TESTED IN ACCORDANCE WITH ASTM D2412, PVC COMPOUND HAVING A MINIMUM CELL CLASSIFICATION OF 12454 AS DEFINED IN ASTM D1784. FITTINGS: SMOOTH INTERIOR, ASTM F949, SECTION 2.2.3 OR F794, SECTION 7.2.4. JOINTS SHALL BE MADE WITH INTEGRALLY-FORMED BELL AND SPIGOT GASKETED CONNECTIONS. MANUFACTURER SHALL PROVIDE DOCUMENTATION SHOWING NO LEAKAGE WHEN GASKETED PIPE JOINTS ARE TESTED IN ACCORDANCE WITH ASTM D3212. ELASTOMERIC SEALS (GASKETS) SHALL MEET ASTM F477.
5.) CONCRETE PIPE AND FITTINGS
A. REINFORCED-CONCRETE SEWER PIPE AND FITTINGS: ASTM C 76 - BELL-AND-SPIGOT OR TONGUE-AND-GROOVE ENDS AND GASKETED JOINTS WITH ASTM C 443, RUBBER GASKETS OR SEALANT JOINTS WITH ASTM C 990, BITUMEN OR BUTYL RUBBER SEALANT. CLASS III, WALL B.
B. CAST-IRON AREA DRAINS: ASME A112.3.3 GRAY-IRON ROUND BODY WITH ANCHOR FLANGE AND ROUND GRATE. INCLUDE BOTTOM OUTLET WITH INSIDE CALK OR SPIGOT CONNECTION, OF SIZES INDICATED.
6.) MANHOLES
A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. DIAMETER: 48 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS OR ADD CONCRETE TO BASE SECTION AS REQUIRED TO PREVENT FLOTATION.

- 4. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, AND SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
5. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, AND LENGTHS TO PROVIDE DEPTH INDICATED.
6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED, AND TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
8. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF MANHOLE TO FINISHED GRADE IS LESS THAN 48 INCHES.
B. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER WITH 4-INCH MINIMUM WIDTH FLANGE AND 26-INCH DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "STORM SEWER."
2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.
7.) INLET & JUNCTION BOXES
A. STANDARD PRECAST CONCRETE:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
2. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, AND SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
3. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED.
4. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED, TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
5. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
6. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF CATCH BASIN TO FINISHED GRADE IS LESS THAN 48 INCHES.
7. PIPE CONNECTORS: ASTM C 923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO BASE SECTION.
8.) PIPE OUTLETS
A. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE, WITH APRON AND TAPERED SIDES.
B. PAVED PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE AS SHOWN ON DRAWINGS.
C. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL," MINIMUM STONE SIZE AND DIMENSIONS AS SHOWN ON DRAWINGS.
9.) PIPING INSTALLATION
A. INSTALL LOCATOR WIRE OR TAPE 6-INCHES ABOVE ALL NON-METALLIC PIPING.
B. INSTALL BEDDING AND BACKFILL IN ACCORDANCE WITH PIPE MANUFACTURERS' INSTRUCTIONS.
C. BEGIN INSTALLATION AT DOWNSTREAM PIPING CONNECTION TO OUTFALL POINT.
D. CONSTRUCT ALL HEADWALLS FLUSH WITH EXISTING AND PROPOSED EMBANKMENT SLOPES.
10.) CLEANING
A. CLEAN INTERIOR OF PIPING OF DIRT AND SUPERFLUOUS MATERIALS.

ENGINEER:
FORESITE group
Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092
770.368.1399
770.368.1944
www.fg-inc.net

DEVELOPER:
CONTACT:

- A. INSTALL LOCATOR WIRE OR TAPE 6-INCHES ABOVE ALL NON-METALLIC PIPING.
B. INSTALL BEDDING AND BACKFILL IN ACCORDANCE WITH PIPE MANUFACTURERS' INSTRUCTIONS.
C. BEGIN INSTALLATION AT DOWNSTREAM PIPING CONNECTION TO OUTFALL POINT.
D. CONSTRUCT ALL HEADWALLS FLUSH WITH EXISTING AND PROPOSED EMBANKMENT SLOPES.
10.) CLEANING
A. CLEAN INTERIOR OF PIPING OF DIRT AND SUPERFLUOUS MATERIALS.

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

PROTECT:
SEAL:
GEORGIA REGISTERED PROFESSIONAL ENGINEER
EVICA S. MADSEN
11/04/13

Table with 2 columns: REVISIONS, DATE. Row 1: ADDENDUM #1, 11/20/2013.

PROJECT MANAGER: JWW
DRAWING BY: NJP
JURISDICTION: DUNWOODY, GA
DATE: 10 AUGUST 2013
SCALE: AS SHOWN
TITLE:
GENERAL NOTES
SHEET NUMBER:
COMMENTS:
JOB/FILE NUMBER: 487.001

G-2

EARTH MOVING

- 1.) **PROJECT CONDITIONS**
 - A. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE BEGINNING EARTH MOVING OPERATIONS.
 - B. DO NOT COMMENCE EARTH MOVING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL MEASURES, ARE IN PLACE.
 - C. DO NOT COMMENCE EARTH MOVING OPERATIONS UNTIL PLANT-PROTECTION MEASURES ARE IN PLACE.
 - D. DO NOT COMMENCE EARTH MOVING OPERATIONS WITHOUT REVIEWING AND MAKING PROVISIONS FOR ALL GEOTECHNICAL RECOMMENDATIONS MADE IN THE PROJECT GEOTECHNICAL REPORT. COMPLY WITH RECOMMENDATIONS IN THE GEOTECHNICAL REPORT REGARDING GENERAL SITE PREPARATION, BUILDING PREPARATION, PAVEMENT SECTIONS, FILL, AND EXCAVATION.
 - E. RETAIN A COPY OF THE PROJECT GEOTECHNICAL REPORT AT THE WORK SITE AT ALL TIMES. ANY DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT SHALL BE RESOLVED IN FAVOR OF THE PROJECT GEOTECHNICAL REPORT.
 - F. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING OPERATIONS.
 - G. PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING EARTH MOVING OPERATIONS.
- 2.) **DEWATERING**
 - A. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
 - B. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER ACCUMULATION.
 - C. DESIGN AND PROVIDE DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. LOWER WATER LEVEL IN ADVANCE OF EXCAVATION BY UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE CONTROL METHODS. MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF TWO (2) FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS AS DIRECTED BY THE ENGINEER TO DOCUMENT THAT THE GROUNDWATER LEVEL IS BEING MAINTAINED.
 - D. BY ACCEPTABLE MEANS, CONTRACTOR SHALL CONTROL ALL WATER REGARDLESS OF SOURCE AND IS RESPONSIBLE FOR PROPER DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.
 - E. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED. PROVIDED IT DOES NOT RESULT IN BOLS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT WATER BODIES. DURING NORMAL PUMPING AND UPON DEVELOPMENT OF WELLS(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE OF WATER SHALL NOT EXCEED FIVE (5) PPM.
 - F. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FOR FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.
 - G. WHEN CONSTRUCTION IS COMPLETE, PROPERLY REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.
- 3.) **SUBGRADE**
 - A. NOTIFY PROJECT GEOTECHNICAL ENGINEER WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE.
 - B. IF PROJECT GEOTECHNICAL ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.
 - C. PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS WITH A PNEUMATIC-TIRED AND LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY PROJECT GEOTECHNICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
 - D. IN HEAVY DUTY PAVEMENT AREAS, THE GRAVEL AGGREGATE BASE SHALL BE EXTENDED UNDER THE CURB AND GUTTER SECTION TO PROVIDE ADDITIONAL STABILITY FOR TRUCK TRAVEL.
- 4.) **UTILITY TRENCH BEDDING AND BACKFILL**
 - A. PLACE AND COMPACT BEDDING COURSE ON TRENCH BOTTOMS AND WHERE INDICATED. SHAPE BEDDING COURSE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS.
 - B. USE CLASS B BEDDING UNDER ALL PVC PIPING.
 - C. CAREFULLY COMPACT INITIAL BACKFILL UNDER PIPE HAUNCHES AND COMPACT EVENLY UP ON BOTH SIDES AND ALONG THE FULL LENGTH OF PIPING OR CONDUIT TO AVOID DAMAGE OR DISPLACEMENT OF PIPING OR CONDUIT.
 - D. BACKFILL ALL UTILITIES UNDER ROADWAYS AND TRAFFIC AREAS WITH CRUSHED STONE.
- 5.) **COMPACTION OF SOIL BACKFILLS AND FILLS**
 - A. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
 - B. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL MATERIALS AS INDICATED ON DRAWINGS OR AS INDICATED IN THE PROJECT GEOTECHNICAL REPORT.
 - C. PROVIDE CONSTRUCTION PHASE MONITORING AND TESTING AS RECOMMENDED IN THE PROJECT GEOTECHNICAL REPORT. PROVIDE TEST REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 6.) **GRADING**
 - A. GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE. FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.
 1. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
 2. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
 - B. LANDSCAPE ISLANDS: FILL ALL CURBED ISLANDS TO TOP OF CURB WITH TOPSOIL AND APPLY SEED AND MULCH UNLESS DRAWINGS INDICATE OTHERWISE.
 - C. SLOPES: DO NOT CREATE CUT OR FILL SLOPES STEEPER THAN 2H:1V WITHOUT OBTAINING SPECIAL WRITTEN PERMISSION FROM THE ENGINEER OF RECORD AND PROJECT GEOTECHNICAL ENGINEER.
- 7.) **PROTECTION**
 - A. PROTECTING GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS. SEE EROSION AND SEDIMENT CONTROL PLAN AND NOTES FOR FURTHER INFORMATION.

CONCRETE PAVING

- 1.) **PROJECT CONDITIONS**
 - A. TRAFFIC CONTROL: MAINTAIN ACCESS FOR VEHICULAR AND PEDESTRIAN TRAFFIC AS REQUIRED FOR OTHER CONSTRUCTION ACTIVITIES.
- 2.) **STEEL REINFORCEMENT**
 - A. PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185/A 185M, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.
 - B. REINFORCING BARS: ASTM A 616/A 616M, GRADE 60, DEFORMED.
 - C. JOINT DOWEL BARS: ASTM A 616/A 616M, GRADE 60 PLAIN-STEEL BARS. CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.
 - D. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS, WELDED WIRE REINFORCEMENT, AND DOWELS IN PLACE. MANUFACTURE BAR SUPPORTS ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE SPECIFIED, AND AS FOLLOWS:
 1. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH NOMINAL.
 2. FINE AGGREGATE: FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.
- 3.) **CEMENTITIOUS MATERIALS**
 - A. CEMENTITIOUS MATERIAL: USE CEMENTITIOUS MATERIALS, OF SAME TYPE, BRAND, AND SOURCE THROUGHOUT PROJECT.
 - B. NORMAL-WEIGHT AGGREGATES: ASTM C 33, UNIFORMLY GRADED. PROVIDE AGGREGATES FROM A SINGLE SOURCE.
 1. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH NOMINAL.
 2. FINE AGGREGATE: FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.
 - C. RELATED MATERIALS
 - A. JOINT FILLERS: ASTM D 1751, ASPHALT-SATURATED CELLULOSIC FIBER IN PREFORMED STRIPS.
 - D. SIDEWALKS: SLOPE SIDEWALKS AWAY FROM BUILDING WITH A 1.5% CROSS-SLOPE UNLESS DRAWINGS INDICATE OTHERWISE.
- 6.) **PREPARATION**
 - A. REMOVE LOOSE MATERIAL FROM COMPACTED SUBBASE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.
 - B. STEEL REINFORCEMENT
 - A. GENERAL: COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT.
 - B. CLEAN REINFORCEMENT OF LOOSE RUST AND MILL SCALE, EARTH, ICE, OR OTHER BOND-REDUCING MATERIALS.
 - C. ARRANGE, SPACE, AND SECURELY THE BARS AND BAR SUPPORTS TO HOLD REINFORCEMENT IN POSITION DURING CONCRETE PLACEMENT. MAINTAIN MINIMUM COVER TO REINFORCEMENT.
 - D. INSTALL WELDED WIRE REINFORCEMENT IN LENGTHS AS LONG AS PRACTICABLE. LAP ADJOINING PICES AT LEAST ONE FULL MESH, AND LACE SPLICES WITH WIRE. OFFSET LAPS OF ADJOINING WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION.
 - E. ZINC-COATED REINFORCEMENT: USE GALVANIZED-STEEL WIRE TIES TO FASTEN ZINC-COATED REINFORCEMENT. REPAIR CUT AND DAMAGED ZINC COATINGS WITH ZINC REPAIR MATERIAL.
- 7.) **JOINTS**
 - A. GENERAL: FORM CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS AND TOOL EDGES TRUE TO LINE, WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE UNLESS OTHERWISE INDICATED.
 1. WHEN JOINING EXISTING PAVING, PLACE TRANSVERSE JOINTS TO ALIGN WITH PREVIOUSLY PLACED JOINTS UNLESS OTHERWISE INDICATED.
 2. ENSURE FORMS PROVIDE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT BETWEEN NEW AND EXISTING PAVING STRIPS, SIDEWALKS, CURBS AND GUTTER, ETC.
 - B. CONSTRUCTION JOINTS: SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATIONS OF PAVING AND AT LOCATIONS WHERE PAVING OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR UNLESS PAVING TERMINATES AT ISOLATION JOINTS.
 1. CONTINUE STEEL REINFORCEMENT ACROSS CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED. DO NOT CONTINUE REINFORCEMENT THROUGH SIDES OF PAVING STRIPS UNLESS OTHERWISE INDICATED.
 2. PROVIDE THE BARS AT SIDES OF PAVING STRIPS WHERE INDICATED.
 3. KEYED JOINTS: PROVIDE PREFORMED KEYWAY-SECTION FORMS OR BULKHEAD FORMS WITH KEYS UNLESS OTHERWISE INDICATED. EMBED KEYS AT LEAST 1-1/2 INCHES INTO CONCRETE.
 4. DOWELED JOINTS: INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR COAT WITH ASPHALT ONE-HALF OF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT.
 - C. ISOLATION JOINTS: FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, OTHER FIXED OBJECTS, AND WHERE INDICATED.
 1. LOCATE EXPANSION JOINTS AT INTERVALS OF 30 FEET UNLESS OTHERWISE INDICATED.
 2. EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT.
 3. TERMINATE JOINT FILLER NOT LESS THAN 1/2 INCH OR MORE THAN 1 INCH BELOW FINISHED SURFACE IF JOINT SEALANT IS INDICATED.
 4. PLACE TOP OF JOINT FILLER FLUSH WITH FINISHED CONCRETE SURFACE IF JOINT SEALANT IS NOT INDICATED.
 5. FURNISH JOINT FILLERS IN ONE-PIECE LENGTHS. WHERE MORE THAN ONE LENGTH IS REQUIRED, LACE OR CLIP JOINT-FILLER SECTIONS TOGETHER.
 6. DURING CONCRETE PLACEMENT, PROTECT TOP EDGE OF JOINT FILLER WITH METAL, PLASTIC, OR OTHER TEMPORARY PREFORMED CAP. REMOVE PROTECTIVE CAP AFTER CONCRETE HAS BEEN PLACED ON BOTH SIDES OF JOINT.
 - D. CONTRACTION JOINTS: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS:
 1. GROOVED JOINTS: FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVING TOOL TO A 1/4-INCH RADIUS. REPEAT GROOVING OF CONTRACTION JOINTS AFTER APPLYING SURFACE FINISHES. ELIMINATE GROOVING-TOOL MARKS ON CONCRETE SURFACES.
 2. SAWED JOINTS: FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH- WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE DEVELOPING RANDOM CONTRACTION CRACKS.
 3. DOWELED CONTRACTION JOINTS: INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR COAT WITH ASPHALT ONE-HALF OF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT.
 - E. EDGING: AFTER INITIAL FLOATING, TOOL EDGES OF PAVING, GUTTERS, CURBS, AND JOINTS IN CONCRETE WITH AN EDGING TOOL TO A 1/4-INCH RADIUS. REPEAT TOOLING OF EDGES AFTER APPLYING SURFACE FINISHES. ELIMINATE EDGING-TOOL MARKS ON CONCRETE SURFACES.
- 9.) **FIELD QUALITY CONTROL**
 - A. TESTING AGENCY: ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND

- INSPECTIONS.
- B. PROMPTLY SEND TEST REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
- C. TESTING SERVICES: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED BY THE GENERAL CONTRACTOR'S TESTING AGENCY ACCORDING TO THE FOLLOWING REQUIREMENTS:
 1. TESTING FREQUENCY: OBTAIN AT LEAST ONE COMPOSITE SAMPLE FOR EACH 100 CU. YD. OR FRACTION THEREOF OF EACH CONCRETE MIXTURE PLACED EACH DAY. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIXTURE, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
 2. SLUMP: ASTM C 143/C 143M, ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
 3. AIR CONTENT: ASTM C 231, PRESSURE METHOD, ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
 4. CONCRETE TEMPERATURE: ASTM C 1064/C 1064M, ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW AND WHEN IT IS 80 DEG F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
 5. COMPRESSION TEST SPECIMENS: ASTM C 311/C 311M, CAST AND LABORATORY CURE ONE SET OF THREE STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
 6. COMPRESSIVE-STRENGTH TESTS: ASTM C 39C 39M, TEST ONE SPECIMEN AT SEVEN DAYS AND TWO SPECIMENS AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT 28 DAYS.
 - D. STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.
 - E. TEST RESULTS SHALL BE REPORTED IN WRITING TO ENGINEER, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, LOCATION OF CONCRETE BATCH IN WORK, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7- AND 28-DAY TESTS.
 - F. ADDITIONAL TESTS: TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TESTS OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ENGINEER.
 - G. CONCRETE PAVING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
 - H. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
 1. PREPARE TEST AND INSPECTION REPORTS.
- 10.) **REPAIRS AND PROTECTION**
 - A. REMOVE AND REPLACE CONCRETE PAVING THAT IS BROKEN, DAMAGED, OR DEFECTIVE OR THAT DOES NOT COMPLY WITH REQUIREMENTS IN THIS SECTION. REMOVE WORK IN COMPLETE SECTIONS FROM JOINT TO JOINT UNLESS OTHERWISE APPROVED BY ENGINEER.
 - B. DRILL TEST CORES, WHERE DIRECTED BY ENGINEER, WHEN NECESSARY TO DETERMINE MAGNITUDE OF CRACKS OR DEFECTIVE AREAS. FILL DRILLED CORE HOLES IN SATISFACTORY PAVING AREAS WITH PORTLAND CEMENT CONCRETE BONDED TO PAVING WITH EPOXY ADHESIVE. PROTECT CONCRETE PAVING FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR AT LEAST 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVING AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR.
 - D. MAINTAIN CONCRETE PAVING FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL. SWEEP PAVING NOT MORE THAN TWO DAYS BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS.

CHAIN LINK FENCES AND GATES

- 1.) **PROJECT CONDITIONS**
 - A. FIELD MEASUREMENTS: VERIFY LAYOUT INFORMATION FOR CHAIN-LINK FENCES AND GATES SHOWN ON DRAWINGS IN RELATION TO PROPERTY SURVEY AND EXISTING STRUCTURES. VERIFY DIMENSIONS BY FIELD MEASUREMENTS.
 - B. PROVIDE SUBMITTAL OF PROPOSED MATERIALS TO ENGINEER. ALLOW TWO WEEKS FOR REVIEW/APPROVAL.
- 2.) **WARRANTY**
 - A. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE COMPONENTS OF CHAIN-LINK FENCES AND GATES THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.
- 3.) **CHAIN-LINK FENCE FABRIC**
 - A. GENERAL: PROVIDE FABRIC IN ONE-PIECE HEIGHTS MEASURED BETWEEN TOP AND BOTTOM OF OUTER EDGE OF SELVAGE, KNUCKLE OR TWIST. COMPLY WITH CLEM PRODUCT MANUAL AND WITH REQUIREMENTS INDICATED BELOW:
 1. FABRIC HEIGHT: AS INDICATED ON DRAWINGS.
 2. STEEL WIRE FABRIC: WIRE WITH A DIAMETER OF 0.148 INCH.
 - a. MESH SIZE: 2 INCHES.
 - b. POLYMER-COATED FABRIC: ASTM F 688, OVER ZINC-COATED STEEL WIRE. COLOR: BLACK, COMPLYING WITH ASTM F 834.
 3. SELVAGE: TWISTED TOP AND KNUCKLED BOTTOM.
 - 4.) **FENCE FRAMING**
 - A. POSTS AND RAILS: COMPLY WITH ASTM F 1043 FOR FRAMING, INCLUDING RAILS, BRACES, AND LINE, TERMINAL, AND CORNER POSTS. PROVIDE MEMBERS WITH MINIMUM DIMENSIONS AND WALL THICKNESS ACCORDING TO ASTM F 1043 BASED ON THE FOLLOWING:
 1. FENCE HEIGHT: AS INDICATED ON DRAWINGS.
 2. MATERIAL
 - a. LINE POST: 1.9 INCHES IN DIAMETER.
 - b. END, CORNER AND PULL POST: 2.375 INCHES.
 3. HORIZONTAL FRAMEWORK MEMBERS: TOP RAILS COMPLYING WITH ASTM F 1043. TOP RAIL: 1.68 INCHES IN DIAMETER.
 4. BRACE RAILS: COMPLY WITH ASTM F 1043.
 5. METALLIC COATING FOR STEEL FRAMING: TYPE A, CONSISTING OF NOT LESS THAN MINIMUM 2.0-OZ./SQ. FT. AVERAGE ZINC COATING PER ASTM A 123/A 123M OR 4.0-OZ./SQ. FT. ZINC COATING PER ASTM A 653/A 653M.
 - 5.) **TENSION WIRE**
 - A. METALLIC-COATED STEEL WIRE: 0.177 INCH- DIAMETER, MARCELLED TENSION WIRE COMPLYING WITH ASTM A 817 AND ASTM A 824, WITH THE FOLLOWING METALLIC COATING: TYPE II, ZINC COATED (GALVANIZED) BY HOT-DIP PROCESS, WITH THE FOLLOWING MINIMUM COATING WEIGHT:

- 6.) **MATCHING CHAIN-LINK FABRIC COATING WEIGHT.**
- 7.) **SWING GATES**
 - A. GENERAL: COMPLY WITH ASTM F 900 FOR GATE POSTS AND SINGLE OR DOUBLE SWING GATE TYPES.
 1. GATE LEAF WIDTH: AS INDICATED.
 2. GATE FABRIC HEIGHT: AS INDICATED.
 - B. PIPE AND TUBING:
 1. ZINC-COATED STEEL: COMPLY WITH ASTM F 1043 AND ASTM F 1083; PROTECTIVE COATING AND FINISH TO MATCH FENCE FRAMING.
 2. GATE POSTS: ROUND TUBULAR STEEL.
 3. SLUMP: ASTM C 143/C 143M, ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
 4. AIR CONTENT: ASTM C 231, PRESSURE METHOD, ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
 5. CONCRETE TEMPERATURE: ASTM C 1064/C 1064M, ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW AND WHEN IT IS 80 DEG F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
 6. COMPRESSIVE TEST SPECIMENS: ASTM C 311/C 311M, CAST AND LABORATORY CURE ONE SET OF THREE STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
 7. COMPRESSIVE-STRENGTH TESTS: ASTM C 39C 39M, TEST ONE SPECIMEN AT SEVEN DAYS AND TWO SPECIMENS AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT 28 DAYS.
 - D. STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.
 - E. TEST RESULTS SHALL BE REPORTED IN WRITING TO ENGINEER, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, LOCATION OF CONCRETE BATCH IN WORK, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7- AND 28-DAY TESTS.
 - F. ADDITIONAL TESTS: TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TESTS OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ENGINEER.
 - G. CONCRETE PAVING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
 - H. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
 1. PREPARE TEST AND INSPECTION REPORTS.
 - 8.) **GROUT AND ANCHORING CEMENT**
 - A. NONSHRINK, NONMETALLIC GROUT: PREMIXED, FACTORY-PACKAGED, NONSTAINING, NONCORROSIVE, NONGASEOUS GROUT COMPLYING WITH ASTM C 1107. PROVIDE GROUT, RECOMMENDED IN WRITING BY MANUFACTURER, FOR EXTERIOR APPLICATIONS.
 - B. EROSION-RESISTANT ANCHORING CEMENT: FACTORY-PACKAGED, NONSHRINK, NONSTAINING, HYDRAULIC-CONTROLLED EXPANSION CEMENT FORMULATION FOR MIXING WITH POTABLE WATER AT PROJECT SITE TO CREATE POURABLE ANCHORING, PATCHING, AND GROUTING COMPOUND. PROVIDE FORMULATION THAT IS RESISTANT TO EROSION FROM WATER EXPOSURE WITHOUT NEEDING PROTECTION BY A SEALER OR WATERPROOF COATING AND THAT IS RECOMMENDED IN WRITING BY MANUFACTURER, FOR EXTERIOR APPLICATIONS.
 - 9.) **ADJUSTING**
 - A. GATES: ADJUST GATES TO OPERATE SMOOTHLY, EASILY, AND QUIETLY. FREE OF BINDING, WARP, EXCESSIVE DEFLECTION, DISTORTION, NONALIGNMENT, MISPLACEMENT, DISRUPTION, OR MALFUNCTION, THROUGHOUT ENTIRE OPERATIONAL RANGE. CONFIRM THAT LATCHES AND LOCKS ENGAGE ACCURATELY AND SECURELY WITHOUT FORCING OR BINDING.

ENGINEER:



Foresite Group, Inc.
5185 Peachtree Pkwy. o | 770.368.1399
Suite 240 f | 770.368.1944
Norcross, GA 30092 w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

SEAL:



11/04/13

REVISIONS DATE

ADDENDUM #1 11/20/2013

PROJECT MANAGER: JWV

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: AS SHOWN

TITLE:

GENERAL NOTES

SHEET NUMBER:

G-2.1

COMMENTS:

JOB/FILE NUMBER: 487.001

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

GENERAL NOTES:

- 1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM THE CITY OF DUNWOODY PRIOR TO DEMOLITION OF THE SITE.
- 2) ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.
- 3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4) REMOVE SHRUBS AND TREES AS NOTED. GRUB OUT ROOTS AND STUMPS AND LEGALLY DISPOSE OF DEBRIS.

DEMOLITION NOTES:

- 1) ALL NEW WORK SHOWN IN THESE SHEETS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES.
- 2) ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH 2013 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRANSPORTATION SYSTEMS EXCEPT IN CASES WHERE, WITHIN THE CITY OF DUNWOODY JURISDICTION, THE COUNTY STANDARD SPECIFICATIONS ARE MORE STRINGENT.
- 3) THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND TO NOTIFY THE OWNER IN CASE OF DISCREPANCIES THAT AFFECT THE CONSTRUCTION PROJECT.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATION AND RELOCATION OF AND TIE-IN TO PUBLIC UTILITIES.
- 5) CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ADJACENT STRUCTURES OR PROPERTY, OR ANY EXISTING STRUCTURES WITHIN LIMITS OF CONSTRUCTION THAT ARE DESIGNATED ON THE PLANS TO REMAIN, AND SHALL REPAIR OR REPLACE SUCH DAMAGED PROPERTY TO THE PROPERTY OWNER'S SATISFACTION AT NO COST TO THE OWNER.
- 6) THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.
- 7) CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF DUNWOODY AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANY/ALL UTILITIES FROM THEIR EXISTING LOCATION ON THE SITE. THE CONTRACTOR SHALL PERFORM ALL UTILITY DEMOLITION OR RELOCATION ACTIVITIES IN ACCORDANCE WITH THE EXISTING UTILITIES SPECIFICATIONS, MATERIALS, AND REQUIREMENTS.
- 8) THE CONTRACTOR SHALL SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NECESSARY TO MAINTAIN ACCESS TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE AS NECESSARY TO ACCOMPLISH THE WORK.
- 9) CONTRACTOR SHALL CONSIDER COORDINATION ASPECTS OF CRANES AND CONSTRUCTION EQUIPMENT OPERATIONS DURING DEMOLITION ACTIVITY.
- 10) CONTRACTOR EQUIPMENT SHALL NOT BE PARKED IN COUNTY, CITY OR STATE RIGHT-OF-WAY, AND MUST BE STORED WITHIN SITE.
- 11) COORDINATE WITH THE CITY OF DUNWOODY AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.
- 12) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY THE CITY OF DUNWOODY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- 13) ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 14) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- 15) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.
- 16) CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.
- 17) CONTRACTOR TO POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE RIGHT OF WAY DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES. THESE LINES MAY REQUIRE RELOCATION.
- 18) EXISTING LIGHTS AND CONCRETE BASES IN TREE SAVE AREAS SHALL BE REMOVED USING HAND EQUIPMENT TO AVOID DAMAGE TO TREES AND ROOT ZONES.

EROSION CONTROL NOTES

- (SEE ALSO EROSION CONTROL PLAN)
- 1) EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CLEARING OR EARTHWORK OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ALL DISTURBED AREAS.
 - 2) THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND SHALL PROTECT ADJACENT PAVEMENTS FROM SOIL ACCUMULATION DURING CONSTRUCTION.
 - 3) ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE ENGINEER OR OTHER INSPECTORS AS DETERMINED BY FIELD CONDITIONS.

EXISTING SITE DATA	
TOTAL DISTURBED AREA =	1.618 AC.
EXISTING PERVIOUS AREA (WITHIN DISTURBANCE) =	0.868 AC.
EXISTING IMPERVIOUS AREA (WITHIN DISTURBANCE) =	0.750 AC.

LOCATION OF EXISTING STREAM, VERIFIED BY ECOLOGICAL SOLUTIONS.

(2) EX. FLOOD LIGHTS (TO BE REMOVED. CONTRACTOR TO VERIFY POWER STATUS OF LIGHTS PRIOR TO REMOVAL) (TYP.) (SEE NOTE #18 FOR ADDITIONAL INFO)

ASPHALT DRIVEWAY AND 24" CURB AND GUTTER (TO BE REMOVED. CONTRACTOR TO FILL WITH 6" OF TOPSOIL. TOPSOIL TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION)

EX HEADWALL & 12" RCP (TO REMAIN)
EX DROP INLET (TO BE REMAIN)

HEADWALL AND 12" RCP, (TO REMAIN)
EX. CATCH BASIN (TO BE CONVERTED TO PEDESTAL INLET)
CATCH BASIN, AND 12" RCP (TO BE REMOVED)

(4) EX. LIGHTS AT TENNIS COURT (TO REMAIN) (TYP.)
CONCRETE TENNIS COURT AND FENCING (TO BE REMOVED. CONTRACTOR TO FILL WITH 6" OF TOPSOIL. TOPSOIL TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION)
CONCRETE SIDEWALK (TO BE REMOVED)

(6) EX. LIGHTS & CONCRETE BASES (TO BE REMOVED. CONTRACTOR TO VERIFY POWER STATUS OF LIGHTS PRIOR TO REMOVAL. UNDERGROUND ELECTRICAL LINES TO BE ABANDONED IN PLACE.) (TYP.) (SEE NOTE #18 FOR ADDITIONAL INFO)

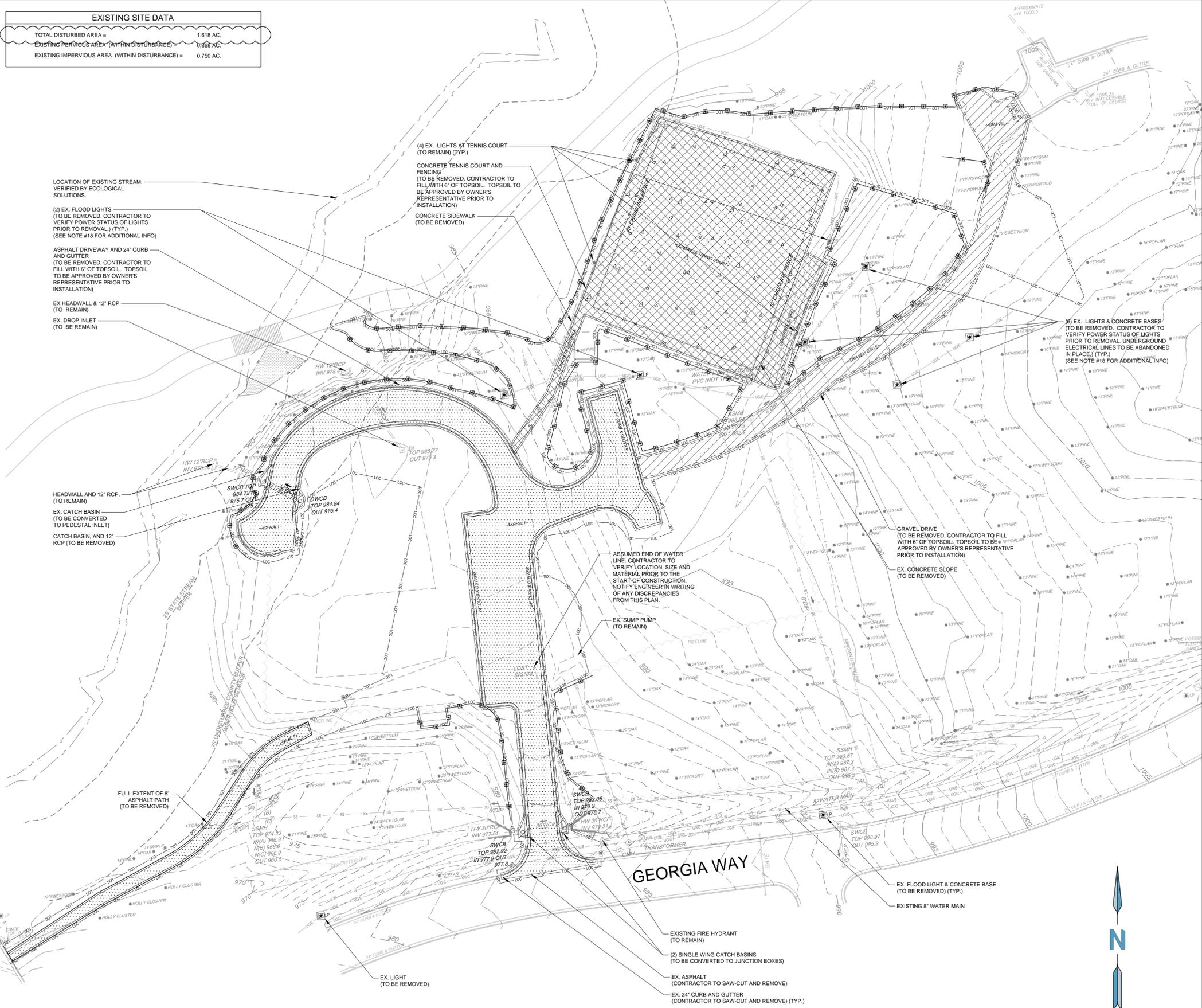
GRAVEL DRIVE (TO BE REMOVED. CONTRACTOR TO FILL WITH 6" OF TOPSOIL. TOPSOIL TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION)
EX. CONCRETE SLOPE (TO BE REMOVED)

ASSUMED END OF WATER LINE. CONTRACTOR TO VERIFY LOCATION, SIZE AND MATERIAL PRIOR TO THE START OF CONSTRUCTION. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES FROM THIS PLAN.
EX. SUMP PUMP (TO REMAIN)

EX. FLOOD LIGHT & CONCRETE BASE (TO BE REMOVED) (TYP.)
EXISTING 8" WATER MAIN

EXISTING FIRE HYDRANT (TO REMAIN)
(2) SINGLE WING CATCH BASINS (TO BE CONVERTED TO JUNCTION BOXES)
EX. ASPHALT (CONTRACTOR TO SAW-CUT AND REMOVE)
EX. 24" CURB AND GUTTER (CONTRACTOR TO SAW-CUT AND REMOVE) (TYP.)

LEGEND	
	GRAVEL
	BUILDING/CONCRETE TO BE REMOVED
	ASPHALT, GRAVEL, AND/OR CURB & GUTTER TO BE REMOVED
	EXISTING FENCE
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	TREE PROTECTION FENCE
	EXISTING TREE TO BE REMOVED



ENGINEER:
FORESITE group
 Foresite Group, Inc.
 5185 Peachtree Pkwy., Suite 240
 Norcross, GA 30092
 Phone: 770.368.1399
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 Website: www.fg-inc.net

DEVELOPER:
 CONTACT:

PROJECT:
BROOK RUN DOG PARK
 CONSTRUCTION DOCUMENTS
 4770 N. PEACHTREE RD.
 DUNWOODY, DEKALB COUNTY, GEORGIA 30338
 L.L. 354, 18TH DISTRICT

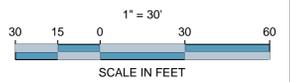
SEAL:

 11/04/13

REVISIONS	DATE
ADDENDUM #1	11/20/2013

PROJECT MANAGER:	JWV
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	10 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

DEMOLITION PLAN
 SHEET NUMBER: **C-0**
 COMMENTS:
 JOB/FILE NUMBER: 487.001



GENERAL NOTES:

- 1) ALL SPOT ELEVATIONS SHOWN ARE AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 2) ALL PROPOSED SIDEWALKS SHALL BE BUILT WITH A 1.5% CROSS-SLOPE AWAY FROM THE BUILDING.
- 3) ALL HEAD WALL SECTIONS SHALL BE CONSTRUCTED TO BE FLUSH WITH THE EXISTING DITCH BANK AND PROPOSED EMBANKMENT SLOPES.

SITE NOTES:

- 1) THE CONTRACTOR SHALL CLEAN OUT ACCUMULATED SILT IN STORM WATER CONVEYANCE CHANNELS AND PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
- 2) COORDINATE WITH THE CITY OF DUNWOODY INSPECTIONS DURING CONSTRUCTION.
- 3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED.
- 4) CONSTRUCT EROSION CONTROL BARRIERS PER THE CITY OF DUNWOODY INSPECTOR AND MAINTAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- 5) THE CONTRACTOR SHALL RE-ESTABLISH ALL RIGHT OF WAY AREA WHICH IS DAMAGED OR DISTURBED TO ORIGINAL CONDITIONS OR BETTER DURING AUTHORIZED WORK. ALL WORK IN THE CITY OF DUNWOODY RIGHT OF WAY SHALL COMPLY WITH GDOT SPECIFICATIONS.
- 6) ALL CURBED LANDSCAPE ISLANDS SHALL BE FILLED TO TOP OF CURB WITH TOPSOIL AND SEEDED.
- 7) MAXIMUM CUT OR FILL SLOPES IS 2H:1V
- 8) TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING ACTIVITIES.
- 9) ALL NON-METALLIC STORM PIPE SHOWN ON THIS PLAN SHALL BE WRAPPED WITH LOCATION WIRE AND TAPE.
- 10) IN ALL AREAS OF FILL OR OTHERWISE DISTURBANCE OF EXISTING CONDITIONS, UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FULLY AND COMPLETELY REMOVE AND LEGALLY DISPOSE OFF-SITE. ALL PLANT MATERIALS INCLUDING BUT NOT LIMITED TO ROOT SYSTEMS, CONCRETE, REINFORCED CONCRETE, ASPHALT DEBRIS, UNDERBRUSH, TOPSOIL, AND OTHER DELETERIOUS MATERIAL. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING FULL REMOVAL OF THESE MATERIALS.
- 11) REFER TO SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION REPORTS AS PROVIDED BY OWNER FOR RECOMMENDATIONS ASSOCIATED WITH: GENERAL SITE PREPARATION, BUILDING PAD PREPARATION, SUBGRADE PREP, AREAS TO RECEIVE FILL, AREAS TO BE OVEREXCAVATED, PAVEMENT SECTIONS, FILL SLOPES AND EXCAVATION. THE CONTRACTOR SHALL HAVE THIS REPORT ON THE JOB SITE FOR REFERENCE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE EARTHWORK OPERATIONS AND CONSTRUCTION PHASE MONITORING TO ENSURE THAT ALL COMPACTON IS COMPLETED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PROVIDE TESTING REPORTS TO THE OWNER REGARDING COMPACTON TESTING PER THE TESTING PROTOCOL IN THE GEOTECHNICAL REPORT.
- 12) COMPACTON OF ALL FILL MATERIAL BETWEEN THE FRONT AND REAR BUILDING LINES TO BE 95% STANDARD PROCTOR MUST BE CERTIFIED BY GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF CURB. THIS CERTIFICATION WILL BE SUBMITTED TO THE CHIEF DEVELOPMENT INSPECTIONS. LOTS WITH 2' OF FILL OR GREATER, AS DELINEATED ON THE CONSTRUCTION PLANS, WILL REQUIRE A COMPACTON CERTIFICATION PRIOR TO ISSUANCE OF BUILDING PERMIT. THE ENGINEER WILL ALSO PROVIDE A LETTER LISTING THOSE LOTS THAT REQUIRE COMPACTON CERTIFICATION. THOSE LOTS THAT REQUIRE COMPACTON CERTIFICATION WILL BE INDICATED ON THE FINAL RECORDED PLAT.
- 13) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. 24 HR. CONTACT: JASON WECKERLY (770) 368-1399
- 14) NO PORTION OF THIS SITE LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER PANEL 13089C0016J DATED 05/16/2013
- 15) EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 16) EXTREME CAUTION SHALL BE USED WHEN WORKING WITHIN THE VICINITY OF THE EXISTING OVERHEAD POWER LINES. CONTRACTORS SHALL NOTIFY/COORDINATE WITH GEORGIA POWER PRIOR TO CONSTRUCTION.

EARTHWORK CALCULATIONS		
REQUIRED CUT =	+	206 CY
REQUIRED FILL =	-	502 CY
ADDITIONAL CUT FROM CONCRETE BASE =	+	264 CY
ADDITIONAL CUT FROM FOUNDATION =	+	16 CY
BALANCE:		-16 CY

NOTE: A SHRINKAGE OF 15% WAS USED FOR THESE CALCULATIONS.
REQUIRED CUT IS IN SITU CUT.

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 THE SANITARY SEWER EASEMENT.)
- 3) CALL BEFORE YOU DIG: 800.282.7411

SWALE #1
(SEE SWALE CALCULATIONS AND SECTION ON THIS SHEET)
SWALES TO BE LINED WITH NA GREEN C125BN OR APPROVED EQUAL (TYP.)
PATH TO BE INSTALLED ON EXISTING GRADE

STR. 200 (EXISTING HW)
25-YR STORM VELOCITY LEAVING EXISTING HEADWALL = 7.11 FPS

STR. 300 (EXISTING HW)
25-YR STORM VELOCITY LEAVING EXISTING HEADWALL = 4.55 FPS

STR. 302 (PROPOSED GRATE)
GDOT STD 1019A TYPE "A"
CONVERT EX. SWCB INTO GRATE. TOP TO BE FLUSH WITH PROPOSED GRADE.

STR. 202 (EX. GRATE)
GDOT STD 1019A TYPE "A"

STR. 204 (PROPOSED GRATE)
GDOT STD 1019A TYPE "A"

RESTROOM FFE = 986.25
(CONTRACTOR TO GRADE GRASSY AREA AT 2% MINIMUM AWAY FROM BUILDING FOR 10' BEYOND ROOF LINE)

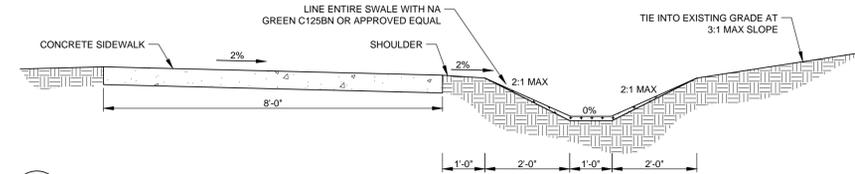
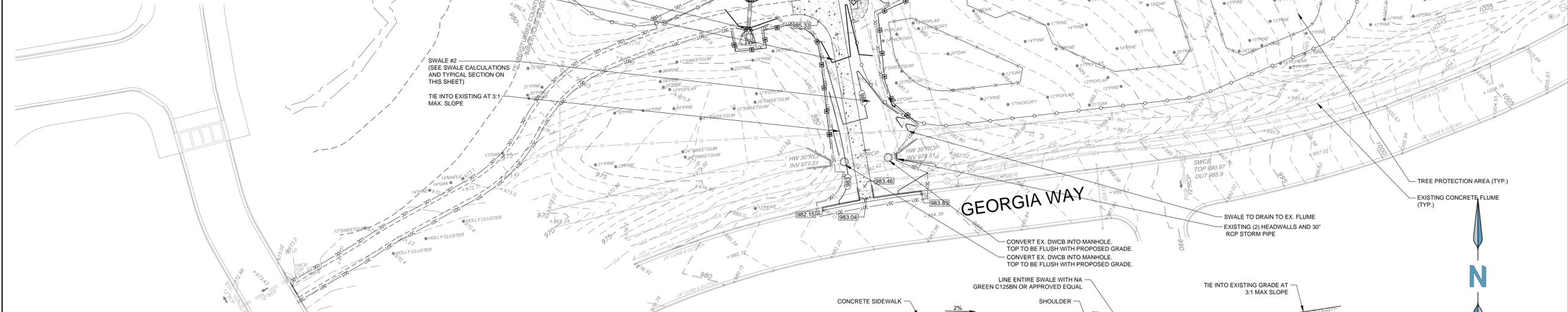
STR. 102 (HW)
GDOT STD 1001-B

STR. 100 (PROPOSED HW)
GDOT STD 1001-B

WALK TO BE GRADED AT 5% MAX. SLOPE TO RESTROOM BUILDING

SWALE #2
(SEE SWALE CALCULATIONS AND TYPICAL SECTION ON THIS SHEET)
TIE INTO EXISTING AT 3:1 MAX. SLOPE

LEGEND	
XXXX	EXISTING CONTOURS
XXXX	PROPOSED CONTOURS
---	EXISTING STORM PIPE
---	PROPOSED STORM PIPE
XXXXXX	EXISTING SPOT ELEVATION
XXXXXX	PROPOSED SPOT ELEVATION



1 C-2 TYPICAL SWALE CROSS SECTION
1" = 2'

SWALE CALCULATIONS										
SWALE ID	Q25 (cfs)	CHANNEL ROUGHNESS (n)	AVG. SLOPE (%)	CHANNEL WIDTH (ft)	CHANNEL HEIGHT (ft)	MAX. FLOW DEPTH (ft)	V25 (fps)	PERMISSIBLE SHEAR (psf)	CALCULATED SHEAR (psf)	SAFETY FACTOR
2	4.5	0.022	5	1	1	0.41	4.78	2.35	1.26	1.86



ENGINEER:
FORESITE group
Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092
770.368.1399
770.368.1944
www.fg-inc.net

DEVELOPER:

CONTACT:

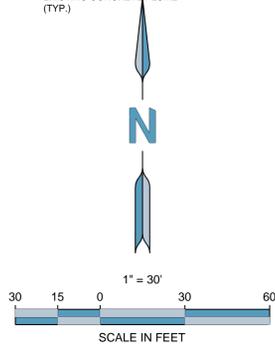
PROJECT:
BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

REVISIONS	DATE
ADDENDUM #1	11/20/2013

PROJECT MANAGER: JWW
DRAWING BY: NJP
JURISDICTION: DUNWOODY, GA
DATE: 10 AUGUST 2013
SCALE: 1" = 30'
TITLE:

GRADING & DRAINAGE PLAN
SHEET NUMBER: **C-2**
COMMENTS:
JOB/FILE NUMBER: 487.001

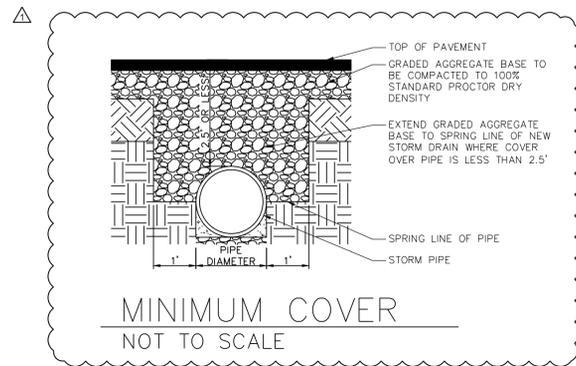


GENERAL NOTES:

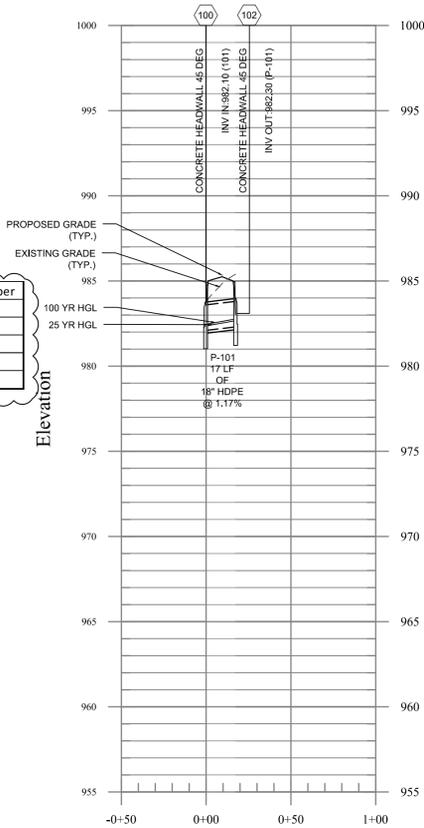
- PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

PIPE CHART

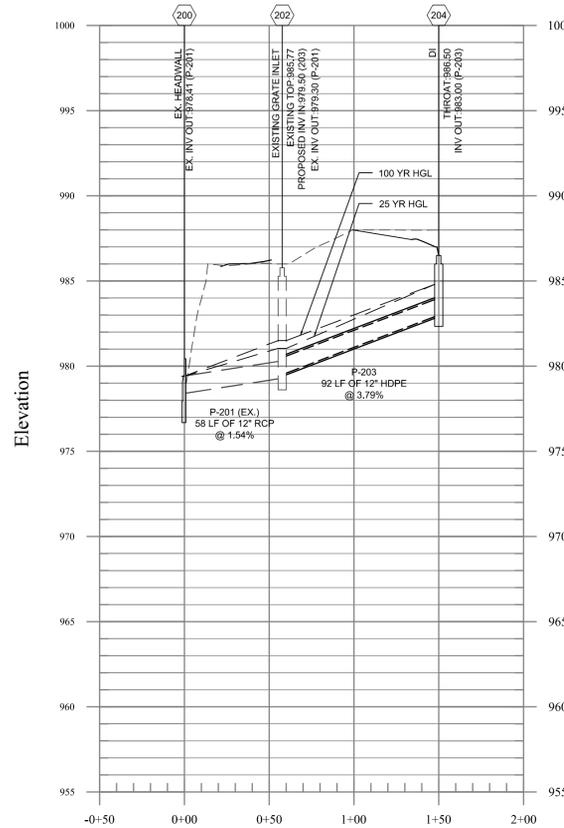
ID	Upstream ID	Downstream ID	Size (in)	Slope (%)	Length (ft)	Material	Velocity (ft/s)	Flow (cfs)	Capacity (cfs)	Contributing Area (ac)	Curve Number
P-101	102	100	18	1.17	17	HDPE	2.91	0.61	7.42	0.10	61
P-201 (EX)	202	200	12	1.54	58	RCP	6.36	4.99	4.77	0.12	61
P-203	204	202	12	3.79	92	HDPE	9.19	6.79	9.03	1.49	63
P-301 (EX)	302	300	12	1.93	31	RCP	4.55	1.26	4.03	0.21	61



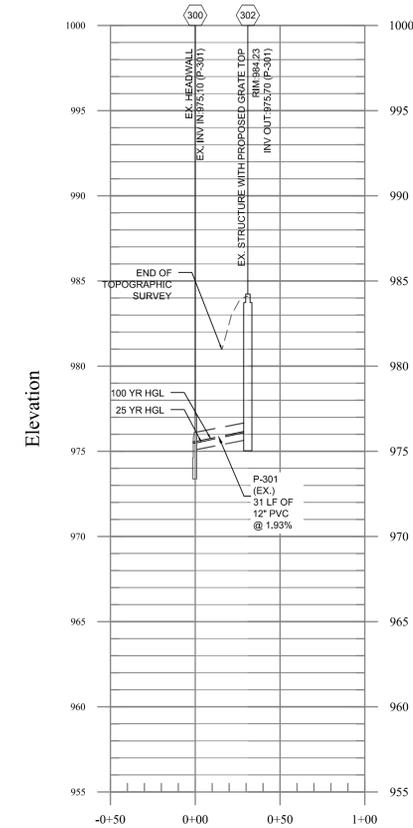
STR. 100 - STR. 102
1" = 50' H, 1" = 5' V



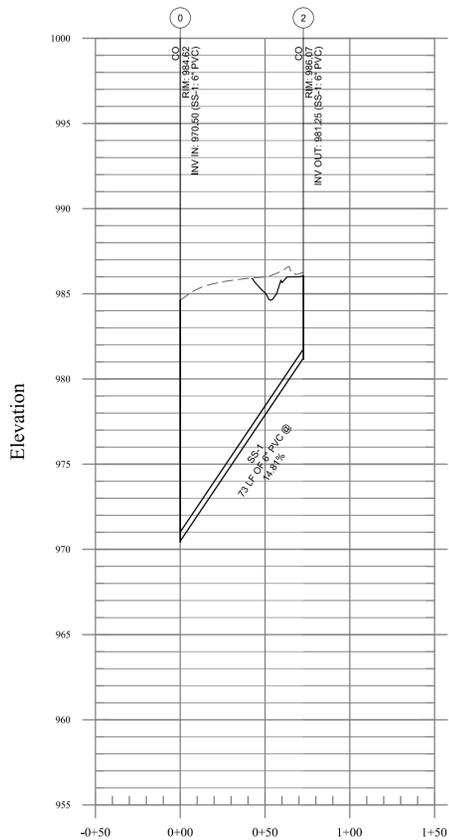
STR. 200 - STR. 204
1" = 50' H, 1" = 5' V



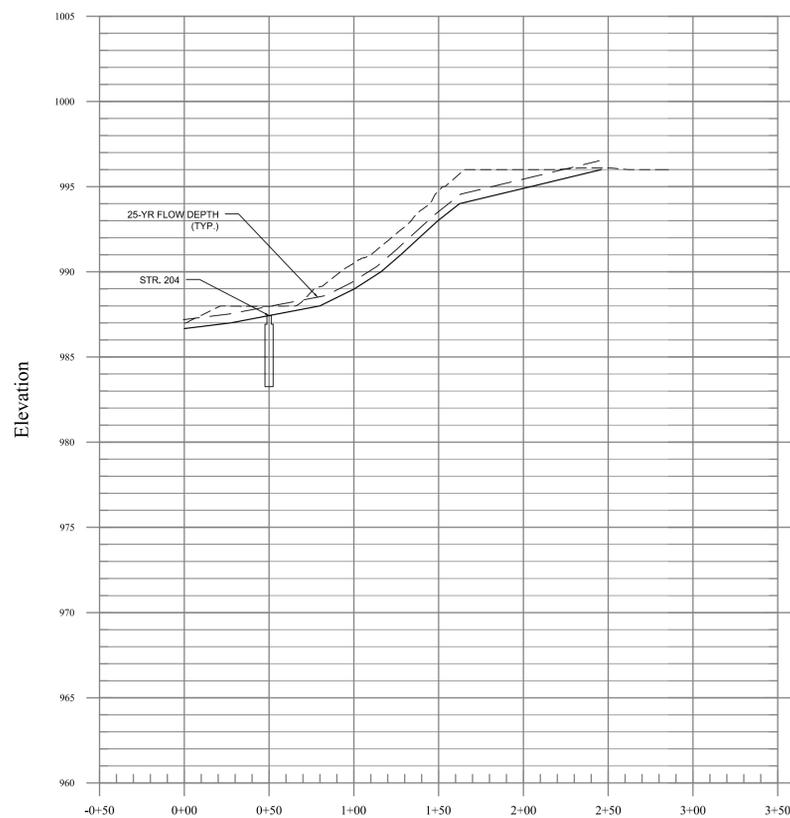
STR. 300 - STR. 302
1" = 50' H, 1" = 5' V



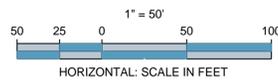
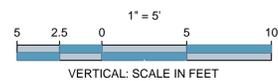
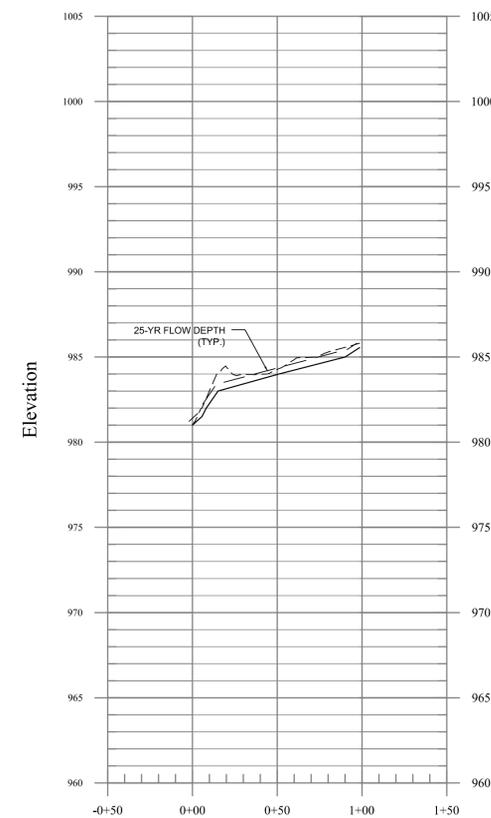
SS-0 - SS-2
1" = 50' H, 1" = 5' V



SWALE #1
1" = 50' H, 1" = 5' V



SWALE #2
1" = 50' H, 1" = 5' V



ENGINEER:
FORESITE group
 Foresite Group, Inc.
 5185 Peachtree Pkwy., Suite 240
 Norcross, GA 30092
 Phone: 770.368.1399
 Fax: 770.368.1944
 Website: www.fg-inc.net

DEVELOPER:

 CONTACT:

PROJECT:
BROOK RUN DOG PARK
 CONSTRUCTION DOCUMENTS
 4770 N. PEACHTREE RD.
 DUNWOODY, DEKALB COUNTY, GEORGIA 30338
 L.L. 354, 18TH DISTRICT

SEAL:

 11/04/13

REVISIONS	DATE
ADDENDUM #1	11/20/2013

PROJECT MANAGER: JWW
 DRAWING BY: NJP
 JURISDICTION: DUNWOODY, GA
 DATE: 10 AUGUST 2013
 SCALE: AS SHOWN
 TITLE:

STORM DRAINAGE PROFILES
 SHEET NUMBER:
C-3.1
 COMMENTS:
 JOB/FILE NUMBER: 487.001

EROSION AND SEDIMENT CONTROL LEGEND			
CODE	PRACTICE	DETAIL	MAP SYMBOL
Cd	CHECKDAM		
Co	CONSTRUCTION ENTRANCE		
Cw	CONCRETE WASHOUT AREA		
Fr	FILTER RING		
Sd1	SEDIMENT BARRIER		
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME		
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION		
St	STORM DRAIN OUTLET PROTECTION		
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		
Ds4	SODDING		
Du	DUST CONTROL ON DISTURBED AREAS		
	LIMITS OF DISTURBANCE	N/A	
	SOIL DELINEATION LINE	N/A	
	TREE PROTECTION FENCE	N/A	

SOIL TYPE	
AuC	APPLING-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
CuC	CECIL-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
PuE	PACOLET-URBAN LAND COMPLEX, 10 TO 25 PERCENT SLOPES

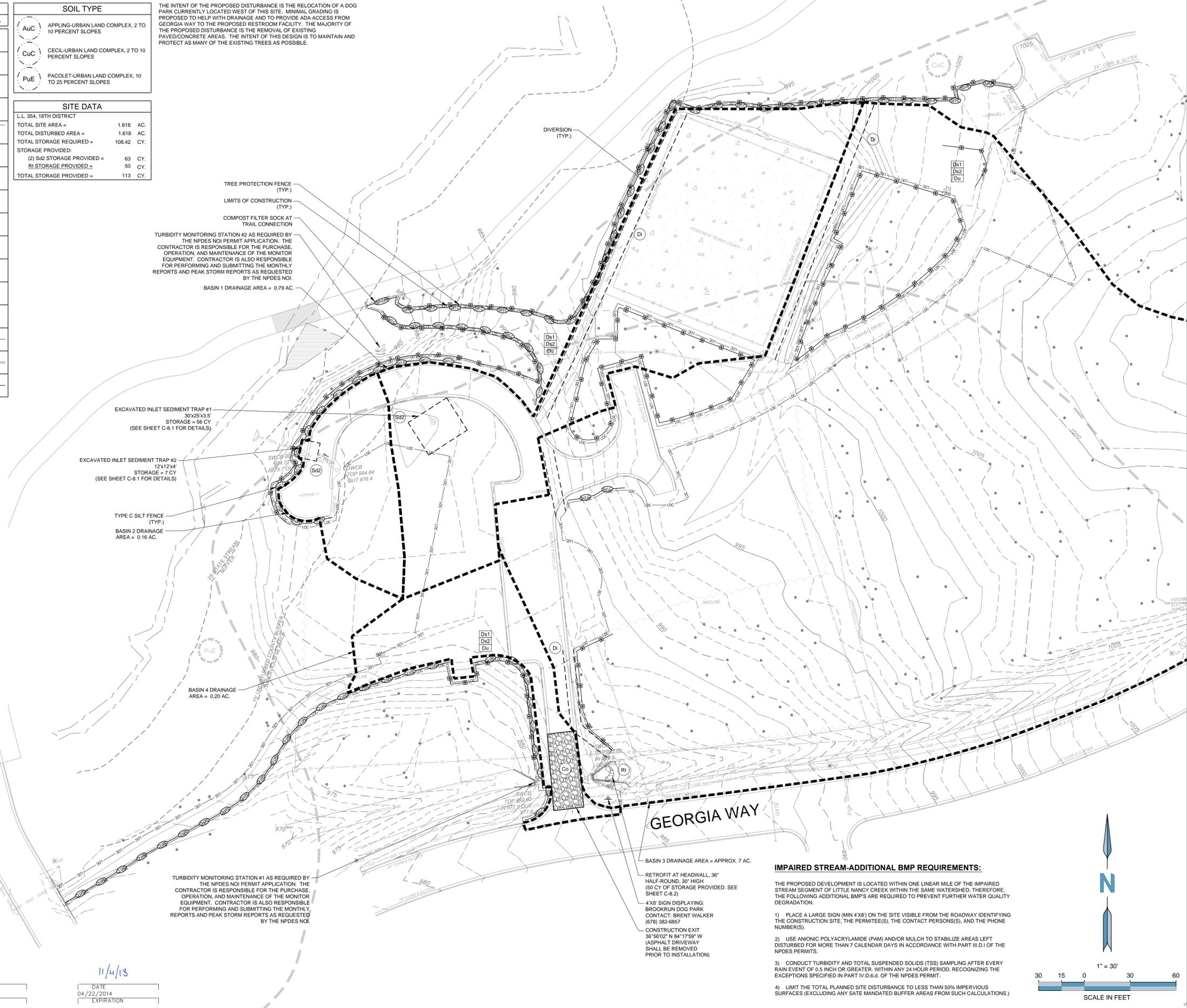
SITE DATA	
L.L. 354, 18TH DISTRICT	
TOTAL SITE AREA =	1.618 AC.
TOTAL DISTURBED AREA =	1.618 AC.
TOTAL STORAGE REQUIRED =	108.42 CY.
STORAGE PROVIDED:	
(2) Sd2 STORAGE PROVIDED =	63 CY.
R STORAGE PROVIDED =	50 CY.
TOTAL STORAGE PROVIDED =	113 CY.

THE INTENT OF THE PROPOSED DISTURBANCE IS THE RELOCATION OF A DOG PARK CURRENTLY LOCATED WEST OF THIS SITE. MINIMAL GRADING IS PROPOSED TO HELP WITH DRAINAGE AND TO PROVIDE ADA ACCESS FROM GEORGIA WAY TO THE PROPOSED RESTROOM FACILITY. THE MAJORITY OF THE PROPOSED DISTURBANCE IS THE REMOVAL OF EXISTING PAVED/CONCRETE AREAS. THE INTENT OF THIS DESIGN IS TO MAINTAIN AND PROTECT AS MANY OF THE EXISTING TREES AS POSSIBLE.

** FOR RIPRAP TABLES, SEE SHEET SERIES C-8
CONTRACTOR SHALL NOTIFY ENGINEER UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION.

ANTICIPATED ACTIVITY SCHEDULE				
ACTIVITY	1.0		4.0	
	MTH	MTH	MTH	MTH
1 INITIAL EROSION CONTROL BMP INSTALLATION				
2 INTERMEDIATE EROSION CONTROL BMP INSTALLATION				
3 FINAL PHASE EROSION CONTROL BMP INSTALLATION				
4 MAINTENANCE OF EROSION CONTROL BMP'S				
5 DEMOLITION				
6 CLEARING AND GRUBBING				
7 GRADING				
8 STORM & SANITARY SEWER INSTALLATION				
9 PAVING				
10 BUILDING CONSTRUCTION				
11 TEMPORARY GRASSING				
12 PERMANENT GRASSING				
13 TEMPORARY GRASSING @ 14 DAY INTERVALS				
14 PERMANENT GRASSING @ 30 DAY INTERVALS				
15 FINAL CLEAN UP				

NOTE: SEE C-8 EROSION CONTROL DETAILS FOR FERTILIZER REQUIREMENTS FOR TURF AND SEED INSTALLATION AND MAINTENANCE INSTRUCTIONS



IMPAIRED STREAM-ADDITIONAL BMP REQUIREMENTS:

- THE PROPOSED DEVELOPMENT IS LOCATED WITHIN ONE LINEAR MILE OF THE IMPAIRED STREAM SEGMENT OF LITTLE NANCY CREEK WITHIN THE SAME WATERSHED. THEREFORE, THE FOLLOWING ADDITIONAL BMP'S ARE REQUIRED TO PREVENT FURTHER WATER QUALITY DEGRADATION.
- 1) PLACE A LARGE SIGN (MIN 4'x8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITEE(S), THE CONTACT PERSON(S), AND THE PHONE NUMBER(S).
 - 2) USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 7 CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE NPDES PERMIT.
 - 3) CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER. WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d. OF THE NPDES PERMIT.
 - 4) LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY STATE MANDATED BUFFER AREAS FROM SUCH CALCULATIONS.)

ENGINEER:
FORESITE
 group

Foresite Group, Inc.
 5185 Peachtree Pkwy.
 Suite 240
 Norcross, GA 30092

o | 770.368.1399
 f | 770.368.1944
 w | www.fg-inc.net

DEVELOPER:
 CONTACT:

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 CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
 DUNWOODY, DEKALB COUNTY, GEORGIA 30338
 L.L. 354, 18TH DISTRICT

SEAL:

11/04/13

REVISIONS	DATE
ADDENDUM #1	11/20/2013

PROJECT MANAGER: JWW
 DRAWING BY: NJP
 JURISDICTION: DUNWOODY, GA
 DATE: 10 AUGUST 2013
 SCALE: 1" = 30'
 TITLE:

INITIAL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER: **C-4**

COMMENTS:

JOB/FILE NUMBER: 487.001

811
 Know what's below
 Call before you dig

SIGNATURE OF ENGINEER: *[Signature]*
 1575
 CERTIFICATION #

DATE: 04/22/2014
 EXPIRATION:

