



# **DEPARTMENT OF PLANNING & SUSTAINABILITY**

Chief Executive Officer Interim Director

**Lorraine Cochran-Johnson** 

Cedric G. Hudson, MCRP

# DeKalb County Planning Commission - Sketch Plat Hearing April 23, 2025 @ 6:00pm

## **STAFF ANALYSIS**

Case No.: P-Plat #1246254 (Champion's Run – Phase 2 RNC) Agenda # N3

**Commission District:** 5 **Super District:** 7

**Location/Address:** 8682 Pleasant Hill Road

Lithonia, GA 30058

Parcel ID(s): 16 229 01 182

**Request:** Major subdivision to construct 176 single-family detached dwellings.

**Property Owner(s):** D R Horton Llc

**Applicant/Agent:** Kristal Riggins/PEC+

**Acreage:** 84.52 acres

**Existing Land Use:** Vacant

### SUBJECT PROPERTY & ZONING HISTORY

The subject property consists of approximately 84.52 acres and is located in the RNC (Residential Neighborhood Conservation) Zoning District. The property is under common ownership alongside several properties that comprise the larger development now known as "Champion's Run", of which Phase 1 is currently under construction. Several public hearings and administrative approvals relevant to the property are outlined below:

- **Z-18-1235046** (2018): On September 25, 2018, the Board of Commissioners conditionally approved an application to rezone approximately 122.77 acres, including what is now the subject property, from the R-85 (Residential Medium Lot-85) Zoning District to the RNC (Residential Neighborhood Conservation) Zoning District in order to construct up to 321 single-family detached dwellings.
- P-Plat #1243655 (2020): On June 24, 2020, the Planning Commission approved a Sketch Plat application authorizing the subdivision of the 122.77 acres subject to Z-18-1235046 for the construction of 321 single-family detached dwellings.
- #1243986 (2021): A Land Development Permit (LDP) application was approved by the County to allow for site improvements on the eastern portion of property rezoned per Z-18-1235046, allowing for the construction of 134 single-family detached dwellings. This LDP comprised Phase 1 of development within "Champion's Run".

#### PROJECT DESCRIPTION

The applicant, Kristal Riggins (PEC+), proposes a major subdivision of the subject property to construct up to 176 single-family detached dwellings.

This Sketch Plat application runs concurrent with P-Plat #1246252 (Champion's Run – Phase 2 R85); together these applications are intended to comprise Phase 2 of the larger "Champion's Run" development. The subject property, being subject to the conditions of Z-18-1235046, cannot be combined with the property designated as 8400 Pleasant Hill Way (Tax Parcel ID: 16 252 02 002) and developed under a single LDP. Nevertheless, the proposal connects – and, in some cases - shares infrastructure with Phase 1 and Phase 2 R85 of the larger "Champion's Run" development.

The proposed 176 dwellings as part of Phase 2 RNC, together with the 134 dwellings constructed in Phase 1, equate to a total of 310 single-family detached dwelling units, less than the maximum of 321 units imposed by Condition #1 of Z-18-1235046.

Two above-ground stormwater detention facilities are provided: one in the southwestern corner of the development site and one (existing and completed under LDP #1243986) in the northeastern corner of the development site. Utility lines are connected to Phase 1 and the proposed Phase 2 R85 under P-Plat #1246252.

Several access points are provided to the development site:

- Secretariat Drive is to be extended westward from Phase 1, providing multiple means of access (including a future connection) to Norris Lake Drive, Pleasant Hill Way, and Pleasant Hill Road
- The newly proposed Hollingsworth Road (and extension of Pleasant Hill Way) connects Phase 2 (RNC and R85) with Phase 1 to the east.
- The newly proposed Pewter Road connects the development site with the existing "Sierra Highlands" subdivision to the south by terminating at the north end of the existing Rolling Stone Drive.

These access points and all interior streets will be public and constructed to public street standards, and shall include improvements such as sidewalks, streetlights, and street trees meeting the minimum requirements of Section 5.4.3. of the *Zoning Ordinance*. Portions of the existing Pleasant Hill Way Right-of-Way (ROW) are to be demolished and subsequently abandoned.

A significant portion of the development site consists of open space. A large central area of enhanced open space is provided in the center of the development site, with several smaller areas of open space along the periphery. Portions of the property contain floodplain, State Waters, and wetlands, which, with exception of the Secretariat Drive extension, are to remain undisturbed.

#### Sec. 14-96. - Standards for approval of Sketch Plats; approved Preliminary Plats.

- (a) The Planning Commission shall not approve a Sketch Plat unless it is found that:
  - 1) Provisions have been made for a water supply system that is sufficient in terms of quantity, dependability, and quality for purposes of health, emergency, and adequate fire protection for the subdivision proposed;

Water service is to be provided by DeKalb County.

2) If a public sewage system is proposed, adequate provision has been made for such a system and, if other methods of sewage disposal are proposed, that such systems will comply with federal, state, and local laws and regulations;

Sewer service is to be provided by DeKalb County.

3) Adequate areas have been allocated within a subdivision to meet the regulations in this chapter for the long-term collection, management, and treatment of stormwater;

The preliminary stormwater plan has been reviewed and approved by Land Development and appears to meet the minimum requirements of the *Land Development Code* (Chapter 14).

4) The proposed subdivision is designed to avoid areas of flood plains, watercourses, wetlands, exceptional or specimen trees or woodlands;

State waters traverse through the eastern portion of the development site and buffers are highlighted per the submitted site plans. Other areas of concern along the western and northern edge of the development site are left undisturbed.

5) No platting of lots within the subdivision will create any non-conforming lots or increase the non-conformity of existing non-conforming lots on property within or adjacent to the subdivision;

Newly created lots are in compliance with applicable lot standards in the RNC Zoning District.

6) If the subdivision abuts a state designed highway, all applicable statutory provisions are followed, including the rules of Georgia Department of Transportation;

Not applicable.

7) The proposed subdivision meets all the requirements of this chapter, <u>Chapter 27</u>, the official comprehensive plan, the official thoroughfare map, and all other standards and regulations adopted by all boards, commissions, agencies, and officials of DeKalb County and all other applicable laws from other, relevant jurisdictions;

Yes.

8) A properly issued certificate of appropriateness, when the subdivision or portions thereof lie within a designated historic area that required such a certificate as may be required by state law or this Code; and

Not applicable.

9) Lot lines have been laid out so as to minimize crossing municipal or county boundaries;

All proposed lots are located in the unincorporated area of DeKalb County.

10)All requirements of section 14-89 and section 14-90 have been fulfilled.

Yes.

## **STAFF RECOMMENDATION: Approval**

The proposal is consistent with the goals of the *DeKalb County 2050 Unified Plan*, is in compliance with the conditions of Z-18-1235046, and is compliance with all developmental standards of the *Zoning Ordinance*. All other regulatory reviews have been completed and approved (or conditionally approved). Therefore, the Planning and Sustainability Department recommends *Approval* of the submitted Sketch Plat application.

AP# 1246254 - SKETCH PLAT ZONING CASE NUMBER: Z-18-1235046

PARCEL ID: 16 229 01 182

# DEKALB COUNTY AP NUMBERS

1. AP# 1243986 - LDP (CHAMPION'S RUN, PHASE 1) 2. AP# 1243964 - SKETCH PLAT (RED STAG)

3. AP# 1243655 - SKETCH PLAT (RED STAG)

4. AP# 1244145 - LOT DIVISION (CHAMPION'S RUN)

5. AP# 1244075 - (NEW) LOT COMBINATION (RED STAG)

6. AP# 1243727 - (OLD) LOT COMBINATION (RED STAG) 7. AP# 1246252 - SKETCH PLAT (CHAMPION'S RUN, PHASE 2, R85

# **DEKALB NOTES:**

RECORDED OFF-SITE EASEMENT REQUIRED PRIOR TO ISSUANCE OF DEVELOPMENT PERMIT

- A 75' TRIBUTARY BUFFER WILL BE MAINTAINED ON ALL STATE WATERS THAT ARE NOT APPROVED FOR A BUFF ENCROACHMENT VARIANCE BY DEKALB COUNTY OR GA EPD
- SKETCH PLAT APPROVAL DOES NOT CONSTITUTE APPROVAL OF THE STORM DRAINAGE OR SANITARY SEWE
- THE OWNER OF THE PROPERTY IS RESPONSIBLE FOR COMPLIANCE WITH THE CORPS OF ENGINEERS REQUIREMENT
- WATER AND SEWER SERVICES TO BE PROVIDED BY DEKALB COUNTY
- ELECTRICAL SERVICE TO BE UNDERGROUND
- DEKALB COUNTY SANITATION WILL BE UTILIZED TO HANDLE HOUSEHOLD WASTE, YARD DEBRIS AND RECYCLABLE
- THE STREET TREE AND STREET LIGHT PLANS WILL BE COMPLETED DURING THE LDP PROCESS

# **GENERAL NOTES:**

- PRIOR TO LAND DISTURBING AND/OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE /
- THE PHYSICAL CONDITIONS OF THE LOCALITY OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT A GIVEN BY THE ENGINEER IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER IN WRITING AND TH
- ENGINEER AND MAY NOT BE ACCURATE TO EXTENT OR LOCATIONS, PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL NOTIFY UTILITIES AND THEN MARK OR REMARK THEIR FACILITIES.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING VEGETATION WHICH DOES NOT UNREASONABLY INTERFERE WITH CONSTRUCTION.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, REFERENCE POINTS AND STAKES.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES FOR EXECUTION OF ALL MATERIALS. THE EXECUTION OF THE WORK SHALL BE IN ACCORDANCE WITH THE STATE AND LOCAL CODES, RULES, AND
- TESTING SHALL BE DONE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. SHORING SHALL BE IN ACCORDANCE WITH SECTION 7 OF THE MANUAL OF ACCIDENT PROTECTION IN CONSTRUCTION AS PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, OSHA, AND THE LOCAL
- ANY AND ALL WALLS SHOWN HEREIN ARE FOR LAYOUT PURPOSES ONLY. WALL STRUCTURAL DESIGN, DETAILS, CALCULATIONS, APPROVALS, PERMITS, FEES, INSPECTIONS AND CERTIFICATIONS REQUIRED BY THE GOVERNING AUTHORITY SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL INSTALL FALL PROTECTION RAIL SYSTEM(s) FOR ALL WALLS 30 INCHES IN HEIGHT OR GREATER UNLESS OTHERWISE SPECIFIED BY STATE AND/OR LOCAL CODES, RULES, OR REGULATIONS. FALL PROTECTION RAIL SYSTEM(s) SHALL BE IN ACCORDANCE WITH OSHA STANDARD 1926, SUBPART M - FALL PROTECTION.
- ALL STAIRWAYS HAVING MORE THAN THREE (3) RISERS ABOVE A FLOOR OR GRADE SHALL BE EQUIPPED WITH HANDRAILS LOCATED NOT LESS THAN 34 INCHES (34") NOR MORE THAN 38 INCHES (38") ABOVE THE LEADING EDGE OF A TREAD. EXCEPTION: HANDRAILS THAT FORM PART OF A GUARDRAIL MAY BE 42 INCHES (42") HIGH.
- ALL WALL TOPS TO BE SIX INCHES (6") ABOVE GRADE UNLESS OTHERWISE NOTED.
- MAXIMUM CUT OR FILL SLOPE IS 2H:1V UNLESS OTHERWISE SPECIFIED. SLOPES EQUAL TO OR STEEPER THAN 2.5H:1V AND WITH A HEIGHT OF 10' OR GREATER SHALL BE STABILIZED WITH APPROPRIATE MATTING OR BLANKETS.
- . PROPOSED STREETS WITHIN THIS DEVELOPMENT WILL BE PUBLIC.
- . PROPOSED STORMWATER INFRASTRUCTURE ON THIS SITE OUTSIDE OF THE RIGHT OF WAY IS PRIVATELY OWNED AND ANY MAINTENANCE OR REPLACEMENT IS THE HOA'S RESPONSIBILITY.
- 5. THERE ARE NO EXISTING BURY PITS ON THIS SITE.
- THERE ARE NO EXISTING SEPTIC TANK AND DRAIN FIELDS LOCATED ON THIS SITE.

# SITE INFORMATION

- TOTAL ONSITE AREA: 122.77 ACRES / TOTAL AREA DISTURBED 52.43 ACRES.
- BOUNDARY & TOPOGRAPHIC INFORMATION PROVIDED BY PLANNERS & ENGINEERS COLLABORATIVE, INC, DATED
- THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR DEKALB COUNTY, GEORGIA AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER(S) 13089C0181K, EFFECTIVE DATE 12/08/2016 WAS EXAMINED AND PORTION OF THE PROPERTY SHOWN HEREIN WAS FOUND TO FALL WITHIN A DESIGNATED FLOOD ZONE "AE" (AREAS OF 100-YEAR FLOOD) OR SPECIAL FLOOD HAZARD ZONE (AREAS OF 500-YEAR FLOOD).
- THERE ARE STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE SITE.
- THERE ARE KNOWN WETLANDS ON THIS SITE
- THE ORTHOMETRIC HEIGHTS (ELEVATIONS AND CONTOURS) SHOWN HEREON WERE DETERMINED BY A COMBINATION OF FIELD RUN SURVEY BY PLANNERS & ENGINEERS COLLABORATIVE, INC, DATED 04/18/2018 AND DEKALB COUNTY

# SITE DATA

ADDRESS: 8682 PLEASANT HILL RD LITHONIA. GA 30058

SITE AREA: 122.77 AC **ZONING: RNC** 

# SCOPE OF WORK

THE SCOPE OF WORK FOR THIS 122.77 AC DEVELOPMENT IS TO CONSTRUCT 176 SINGLE FAMILY LOT SUBDIVISION.

# **COVENANTS**

THERE WILL BE A MANDATORY HOA WITH GOVERNING DOCUMENTS LEGALLY FILED WITH THE STATE OF GEORGIA. THIS DEVELOPMENT WILL BE SUBJECT TO A PRIVATE COVENANT

# SKETCH PLAT 8682 PLEASANT HILL RD LITHONIA, GA 30058

# D.R. HORTON CROWN LLC

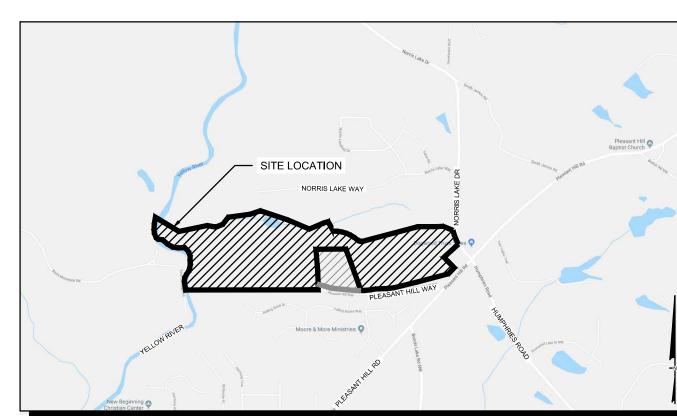
1371 DOGWOOD DRIVE CONYERS, GA 30012 PHONE: 470-774-4884 PREPARED BY:



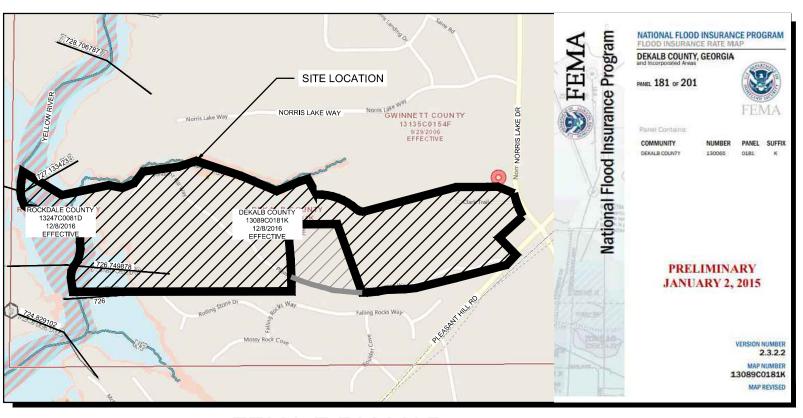
# Planners & Engineers Collaborative+

LAND PLANNING + LANDSCAPE ARCHITECTURE + CIVIL ENGINEERING ARBORISTS + SURVEYING & CONSTRUCTION + WATER RESOURCES

350 RESEARCH COURT STE 200 PEACHTREE CORNERS, GA 30092 P: (770) 451-2741



SITE LOCATION MAP



FEMA FIRM MAP FEMA FIRM PANEL NO.: 13089C0181K

24 HOUR CONTACT: JAY COOMBE @ 470-774-4884

# CONTACT INFORMATION:

MATTHEW KACZENSKI, P.E. PLANNERS AND ENGINEERS COLLABORATIVE

350 RESEARCH COURT

PEACHTREE CORNERS, GEORGIA 30092

MKACZENSKI@PEC.PLUS

ADDRESS:

OWNER:

CONYERS, GA 30012 470-774-4884

OWNER/DEVELOPER: D.R. HORTON CROWN LLC

1371 DOGWOOD DRIVE

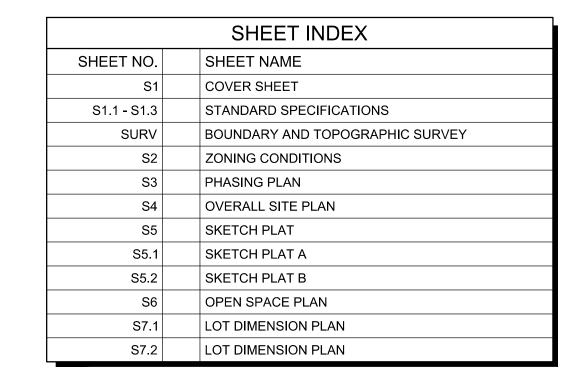
# DEVELOPMENT SERVICES PERMITTING DISCLAIMER:

770.451.2741

ADDRESS:

PHONE:

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





THIS SKETCH PLAT HAS BEEN SUBMITTED TO AND APPROVED BY THE PLANNING COMMISSION OF DEKALB COUNTY, ON THIS (BY DIRECTOR) PLANNING COMMISSION CHAIRMAN DEKALB COUNTY, GEORGIA

P: (770) 451-2741 F: (770) 451-3915

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PEACHTREE CORNERS, GA 30092

# CHAMPION'S RUN - PHASE 2 RNC **SKETCH PLAT**

A MASTER PLANNED RESIDENTIAL **DEVELOPMENT** 

> 8682 PLEASANT HILL RD LITHONIA, GA 30058

AP # 1246254

# **REVISIONS**

NO.	DATE	BY	DESCRIPTION
-1	6-17-22	CAH	1ST SKETCH PLAT SUBMITTAL
<b>-</b> 2	12-21-22	CAH	2ND SKETCH PLAT SUBMITTAL
-3	07-10-23	CAH	3RD SKETCH PLAT SUBMITTAL
-4	04-26-24	CAH	4TH SKETCH PLAT SUBMITTAL
<b>-</b> 5	11-15-24	CAH	5TH SKETCH PLAT SUBMITTAL

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.

**GSWCC LEVEL II DESIGN PROFESSIONAL** 

**COVER SHEET** 

CERTIFICATION # 0000066476 EXP. 06/27/2027

DATE: **PROJECT** 

N/A 11/15/2024 16309.02

SHEET

# PLANNERS AND ENGINEERS COLLABORATIVE STANDARDS AND SPECIFICATIONS

## **CLEARING AND GRADING**

INITIAL EROSION CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY LAND DISTURBING ACTIVITY IS TO BE CONDUCTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INSTALLED EROSION AND SEDIMENT CONTROL MEASURES WITH THE APPROVED PLAN AND THE EROSION CONTROL DEVICES ARE FUNCTIONING PROPERLY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT, ALL REPORTING AND TESTING ASSOCIATED TO EROSION CONTROL, NOTICE OF TERMINATION, COORDINATION OF ALL SUBCONTRACTORS AND ALL SECONDARY PERMITEES AND TERTIARY PERMITEES. CONTRACTOR SHALL PAY THE FEES ASSOCIATED WITH EROSION CONTROL MEASURES TO THE STATE OF GEORGIA. CONTRACTOR SHALL ARRANGE AND PAY FOR AN INSPECTION OF THE SITE 7 DAYS AFTER THE INSTALLATION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED FOR COMPLIANCE WITH NPDES

## RELATED DOCUMENTS:

A. MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

- B. INITIAL AND INTERMEDIATE EROSION AND SEDIMENTATION CONTROL PLAN AS APPROVED BY ISSUING AGENCY.
- C. NPDES GENERAL PERMIT GAR 100001 OR 100003 (SEE EROSION CONTROL NOTES SHEET C6.00 FOR FURTHER DETAILS).

## PART 1 - GENERAL

## 1.1 DEFINITIONS

SURFACE SOILS: TOPSOIL WAS ENCOUNTERED AT THE SURFACE IN MOST OF THE BORING LOCATIONS. TOPSOIL IS A DARK-COLORED SURFACE MATERIAL WITH A HIGH ORGANIC CONTENT AND IS GENERALLY UNSUITABLE FOR FILL MATERIALS: FILL MAY BE ANY MATERIAL THAT HAS BEEN TRANSPORTED AND DEPOSITED BY MAN. ALLUVIAL SOILS

ARE STREAM-DEPOSITED MATERIALS. ALLUVIAL SOILS CONSISTED OF SILTY SANDS (BM) AND SANDY SILTS (ML). RESIDUAL SOIL: RESIDUAL SOIL, FORMED BY IN-PLACE WEATHERING OF THE PARENT ROCK, WAS ENCOUNTERED BELOW THE SURFACE SOILS, FILL MATERIALS OR ALLUVIAL SOILS. THE RESIDUUM IS DESCRIBED AS SILTY SANDS (BM), SANDY SILTS (ML), SILTY CLAYS (CL), AND CLAYEY SANDS (BC). THE RESIDUAL SOILS ARE TYPICALLY STIFF TO VERY STIFF AND MEDIUM DENSE TO DENSE.

<u>PARTIALLY WEATHERED ROCK:</u> PARTIALLY WEATHERED ROCK IS A TRANSITIONAL MATERIAL BETWEEN SOIL AND ROCK, WHICH RETAINS THE STRUCTURE OF THE ROCK AND HAS VERY HARD OR VERY DENSE CONSISTENCIES. THE PARTIALLY WEATHERED ROCK IS GENERALLY DESCRIBED AS VERY DENSE SILTY SANDS (BM).

REFUSAL MATERIAL: REFUSAL IS A DESIGNATION APPLIED TO ANY MATERIAL THAT CANNOT BE FURTHER PENETRATED BY THE POWER AUGER AND IS NORMALLY INDICATIVE OF A VERY HARD OR VERY DENSE MATERIAL, SUCH AS BOULDERS OR LENSES OR THE UPPER SURFACE OF BEDROCK.

PLANT-PROTECTION ZONE: AREA SURROUNDING INDIVIDUAL TREES, GROUPS OF TREES, SHRUBS, OR OTHER VEGETATION TO BE PROTECTED DURING CONSTRUCTION. AND INDICATED ON DRAWINGS. TREE-PROTECTION ZONE: AREA SURROUNDING INDIVIDUAL TREES OR GROUPS OF TREES TO BE PROTECTED DURING CONSTRUCTION, AND INDICATED ON DRAWINGS DEFINED BY A CIRCLE CONCENTRIC WITH EACH TREE WITH A RADIUS 1.5 TIMES THE DIAMETER OF THE DRIP LINE UNLESS OTHERWISE INDICATED BY THE LOCAL JURISDICTION.

A. EXCEPT FOR STRIPPED TOPSOIL AND STRUCTURAL FILL THAT IS INDICATED TO BE STOCKPILED OR OTHERWISE

REMAIN OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM PROJECT SITE.

A. A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS. 1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT

PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. 2. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY OWNER OR AUTHORITIES HAVING JURISDICTION.

B. IMPROVEMENTS ON ADJOINING PROPERTY: AUTHORITY FOR PERFORMING SITE CLEARING INDICATED ON PROPERTY ADJOINING OWNER'S PROPERTY WILL BE OBTAINED BY OWNER AND PROVIDE DOCUMENTATION OF CLEARING EASEMENT TO CONTRACTOR UPON REQUEST.

:. UTILITY LOCATOR SERVICE: NOTIFY ONE CALL FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING. D. DO NOT COMMENCE SITE-CLEARING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROLS,

SEDIMENT PONDS, AND TREE PROTECTION FENCE IN PLACE.

THE FOLLOWING PRACTICES ARE PROHIBITED WITHIN PROTECTION ZONES: 1. STORAGE OF CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL

. PARKING VEHICLES OR EQUIPMENT.

3. FOOT TRAFFIC. 4. ERECTION OF SHEDS OR STRUCTURES.

IMPOUNDMENT OF WATER. 6. EXCAVATION OR OTHER DIGS UNLESS OTHERWISE INDICATED.

7. ATTACHMENT OF SIGNS OR WRAPPING MATERIALS AROUND TREES OR PLANTS UNLESS OTHERWISE INDICATED. F. DO NOT DIRECT VEHICLE OR EQUIPMENT EXHAUST TOWARDS PROTECTION ZONES.

G. PROHIBIT HEAT SOURCES, FLAMES, IGNITION SOURCES, AND SMOKING WITHIN OR NEAR PROTECTION ZONES. H. SOIL STRIPPING, HANDLING, AND STOCKPILING: PERFORM ONLY WHEN THE TOPSOIL IS DRY OR SLIGHTLY MOIST.

# PART 2 - PRODUCTS

A. SATISFACTORY SOIL MATERIAL: REQUIREMENTS FOR SATISFACTORY SOIL MATERIAL ARE SPECIFIED IN DIVISION 2 SECTION "EARTHWORK." 1. OBTAIN APPROVED BORROW SOIL MATERIAL OFF-SITE WHEN SATISFACTORY SOIL MATERIAL IS NOT AVAILABLE

# PART 3 - EXECUTION

3.1 PREPARATION A. PROTECT AND MAINTAIN BENCHMARKS AND SURVEY CONTROL POINTS FROM DISTURBANCE DURING CONSTRUCTION. B. PROTECT EXISTING SITE IMPROVEMENTS TO REMAIN FROM DAMAGE DURING CONSTRUCTION.

# 1. RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO OWNER.

3.2 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

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 DAILY DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.

D. REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING

# 3.3 TREE AND PLANT PROTECTION

GENERAL: PROTECT TREES AND PLANTS REMAINING ON-SITE PER PLANS.

A. LOCATE, IDENTIFY, AND PROTECT ALL EXISTING UTILITIES.

ARRANGE WITH UTILITY COMPANIES TO SHUT OFF INDICATED UTILITIES.

B. LOCATE, IDENTIFY, AND DISCONNECT UTILITIES INDICATED TO BE ABANDONED IN PLACE.

C. 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:

# D. EXCAVATE FOR AND REMOVE UNDERGROUND UTILITIES INDICATED TO BE REMOVED.

A. REMOVE OBSTRUCTIONS, TREES, SHRUBS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. . DO NOT REMOVE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE RELOCATED.

1. NOTIFY ARCHITECT NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.

2. MECHANICAL REMOVE ALL STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS. 3. USE ONLY HAND METHODS FOR GRUBBING WITHIN PROTECTION ZONES. B. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.

1. 1. PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING THOSE RECOMMENDED IN THE ATC GEOTECHNICAL REPORT.

A. STOCKPILE TOPSOIL AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO RAIN SURFACE WATER. SEED AND STRAW STOCKPILE AREA AND PROTECT FROM EROSION. 1. DO NOT STOCKPILE TOPSOIL WITHIN PROTECTION ZONES.

2. DISPOSE OF SURPLUS TOPSOIL. SURPLUS TOPSOIL IS THAT WHICH EXCEEDS QUANTITY NEED TO BACKFILL

3. STOCKPILE SURPLUS TOPSOIL TO ALLOW FOR RE-SPREADING AND REUSE IN LANDSCAPED AREAS. B. STRUCTURAL FILL STOCKPILE: STOCKPILE STRUCTURAL FILL AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH TOPSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. SEED AND STRAW STOCKPILE AREA AND PROTECT FROM EROSION

DO NOT STOCKPILE STRUCTURAL FILL WITHIN PROTECTION ZONES. STOCKPILE AS SHOWN ON PLANS 2. DO NOT DISPOSE OF ANY ADDITIONAL SURPLUS STRUCTURAL FILL. INCREASE STOCKPILE IF REQUIRED. 3. STOCKPILE SURPLUS TOPSOIL TO ALLOW FOR RE-SPREADING AND REUSE IN LANDSCAPED AREAS.

# 3.7 SITE IMPROVEMENTS

A. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND NECESSARY TO FACILITATE NEW CONSTRUCTION.

#### 3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS A. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERLY.

## **EARTHWORK**

# PART 1 - GENERAL

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS

A. SECTION INCLUDES: 1. PREPARING SUBGRADES FOR SLABS-ON-GRADE WALKS PAVEMENTS. 2. EXCAVATING AND BACKFILLING FOR BUILDINGS AND STRUCTURES.

3. DRAINAGE COURSE FOR CONCRETE SLABS-ON-GRADE. 4. SUBBASE COURSE FOR CONCRETE [WALKS][PAVEMENTS].

AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

5. SUBBASE COURSE [AND BASE COURSE] FOR ASPHALT PAVING. 6. SUBSURFACE DRAINAGE BACKFILL FOR WALLS AND TRENCHES.

7. EXCAVATING AND BACKFILLING TRENCHES FOR UTILITIES AND PITS FOR BURIED UTILITY STRUCTURES.

1. DIVISION 1 SECTION "FOR RECORDING PRE EXCAVATION AND EARTH MOVING PROGRESS." 2. DIVISION 1 SECTION "TEMPORARY FACILITIES AND CONTROLS" FOR TEMPORARY CONTROLS, UTILITIES, AND

SUPPORT FACILITIES; ALSO FOR TEMPORARY SITE FENCING IF NOT IN ANOTHER SECTION. 3. DIVISION 2 SECTION "SITE CLEARING" FOR SITE STRIPPING, GRUBBING, STRIPPING [AND STOCKPILING] TOPSOIL, AND REMOVAL OF ABOVE- AND BELOW-GRADE IMPROVEMENTS AND UTILITIES. 4. DIVISION 2 SECTION "SUBDRAINAGE" FOR DRAINAGE OF [FOUNDATIONS] [SLABS-ONGRADE][WALLS]

[AND)[LANDSCAPED AREAS]. 5. DIVISIONS 2, 15, AND 16 SECTIONS FOR INSTALLING UNDERGROUND MECHANICAL AND ELECTRICAL UTILITIES AND BURIED MECHANICAL AND ELECTRICAL STRUCTURES.

A. BACKFILL: SOIL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL USED TO FILL AN EXCAVATION. 1. INITIAL BACKFILL: BACKFILL PLACED BESIDE AND OVER PIPE IN A TRENCH, INCLUDING HAUNCHES TO SUPPORT

2. FINAL BACKFILL: BACKFILL PLACED OVER INITIAL BACKFILL TO FILL A TRENCH. 3. BASE COURSE: AGGREGATE LAYER PLACED BETWEEN THE SUBBASE COURSE AND HOT-MIX ASPHALT PAVING. . BEDDING COURSE: AGGREGATE LAYER PLACED OVER THE EXCAVATED SUBGRADE IN A TRENCH BEFORE LAYING

D. BORROW SOIL: SATISFACTORY SOIL IMPORTED FROM OFF-SITE FOR USE AS FILL OR BACKFILL. E. DRAINAGE COURSE: AGGREGATE LAYER UNDER THE SLAB-ON-GRADE TO MINIMIZES UPWARD CAPILLARY FLOW OF

PORE WATER. F. EXCAVATION: REMOVAL OF MATERIAL ENCOUNTERED ABOVE SUBGRADE ELEVATIONS AND TO LINES AND DIMENSIONS INDICATED. G. FILL: SOIL MATERIALS USED TO RAISE EXISTING GRADES.

H. ROCK: ROCK MATERIAL IN BEDS, LEDGES, UNSTRATIFIED MASSES, CONGLOMERATE DEPOSITS, AND BOULDERS OF ROCK MATERIAL THAT EXCEED [1 CU. YD.] FOR BULK EXCAVATION OR [3/4 CU. YD.] FOR FOOTING, TRENCH, AND PIT EXCAVATION THAT CANNOT BE REMOVED BY ROCK EXCAVATING EQUIPMENT EQUIVALENT TO THE FOLLOWING IN SIZE AND PERFORMANCE RATINGS, WITHOUT SYSTEMATIC DRILLING, RAM HAMMERING, RIPPING, OR BLASTING, WHEN 1. EXCAVATION OF FOOTINGS, TRENCHES, AND PITS: LATE-MODEL, TRACK-MOUNTED HYDRAULIC EXCAVATOR:

EQUIPPED WITH A 42-INCH WIDE, MAXIMUM, SHORT-TIP-RADIUS ROCK BUCKET: RATED AT NOT LESS THAN 138-HP FLYWHEEL POWER WITH BUCKET-CURLING FORCE OF NOT LESS THAN 28,700 IBF AND STICK-CROWD FORCE OF NOT LESS THAN 18,400 IBF WITH EXTRA-LONG REACH BOOM: MEASURED ACCORDING TO SAE J-1179. 2. BULK EXCAVATION: LATE-MODEL, TRACK-MOUNTED LOADER; RATED NOT LESS THAN 230-HP FLYWHEEL POWER

AND DEVELOPING A MINIMUM OF 47,992-LBF BREAKOUT FORCE WITH A GENERAL PURPOSE BARE BUCKET; MEASURED ACCORDING TO SAE J-732. ROCK: ROCK MATERIAL IN BEDS, LEDGES, UNSTRATIFIED MASSES, CONGLOMERATE DEPOSITS, AND BOULDERS OF ROCK MATERIAL [3/4 CU. YD.] OR MORE IN VOLUME THAT EXCEED A STANDARD PENETRATION RESISTANCE OF [100 BLOWS/2 INCHES] WHEN TESTED BY A GEOTECHNICAL TESTING AGENCY, ACCORDING TO ASTM D 1586.

. STRUCTURES: BUILDINGS, FOOTINGS, FOUNDATIONS, RETAINING WALLS, SLABS, TANKS, CURBS, MECHANICAL AND ELECTRICAL APPURTENANCES, OR OTHER MAN-MADE STATIONARY FEATURES CONSTRUCTED ABOVE OR BELOW THE K. SUBBASE COURSE: AGGREGATE LAYER PLACED BETWEEN THE SUBGRADE AND BASE COURSE FOR HOT-MIX

ASPHALT PAVEMENT, OR AGGREGATE LAYER PLACED BETWEEN THE SUBGRADE AND A CEMENT CONCRETE PAVEMENT OR A CEMENT CONCRETE OR HOT-MIX ASPHALT WALK. L. SUBGRADE: UPPERMOST SURFACE OF AN EXCAVATION OR THE TOP SURFACE OF A FILL OR BACKFILL IMMEDIATELY

BELOW SUBBASE, DRAINAGE FILL, DRAINAGE COURSE, OR TOPSOIL MATERIALS. M. UTILITIES: ON-SITE UNDERGROUND PIPES, CONDUITS, DUCTS, AND CABLES, AS WELL AS UNDERGROUND SERVICES WITHIN BUILDINGS.

## A. PRODUCT DATA: FOR EACH TYPE OF THE FOLLOWING MANUFACTURED PRODUCTS REQUIRED: GEOTEXTILES.

B. SAMPLES FOR VERIFICATION: FOR THE FOLLOWING PRODUCTS, IN SIZES INDICATED BELOW: 1. GEOTEXTILE: 12 BY 12 INCHES.

C. QUALIFICATION DATA: FOR QUALIFIED TESTING AGENCY

D. MATERIAL TEST REPORTS: FOR EACH [ON-SITE][AND][BORROW] SOIL MATERIAL PROPOSED FOR FILL AND BACKFILL AS FOLLOWS:

# 1. CLASSIFICATION ACCORDING TO ASTM D 2487.

A. GEOTECHNICAL TESTING AGENCY QUALIFICATIONS: QUALIFIED ACCORDING TO ASTM E 329 AND ASTM D 3740 FOR TESTING INDICATED.

# 1.6 PROJECT CONDITIONS

A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING EARTH MOVING OPERATIONS. 1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.

2. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY OWNER OR AUTHORITIES HAVING JURISDICTION. B. IMPROVEMENTS ON ADJOINING PROPERTY: AUTHORITY FOR PERFORMING EARTH MOVING INDICATED ON PROPERTY

ADJOINING OWNER'S PROPERTY WILL BE OBTAINED BY OWNER BEFORE AWARD OF CONTRACT. 1. DO NOT PROCEED WITH WORK ON ADJOINING PROPERTY UNTIL DIRECTED BY ARCHITECT. C. UTILITY LOCATOR SERVICE: NOTIFY [UTILITY LOCATOR SERVICE] FOR AREA WHERE PROJECT IS LOCATED BEFORE

BEGINNING EARTH-MOVING OPERATIONS. D. DO NOT COMMENCE EARTH-MOVING OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES, SPECIFIED IN [DIVISION 1 SECTION "TEMPORARY FACILITIES AND CONTROLS,"][DIVISION 2 SECTION "SITE CLEARING,"] ARE IN PLACE.

E. DO NOT COMMENCE EARTH-MOVING OPERATIONS UNTIL PLANT-PROTECTION MEASURES SPECIFIED TO DIVISION 2 SECTION "TREE PROTECTION AND TRIMMING" ARE IN PLACE. F. THE FOLLOWING PRACTICES ARE PROHIBITED WITHIN PROTECTION ZONES: 1. STORAGE OF CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL.

2. PARKING VEHICLES OR EQUIPMENT. FOOT TRAFFIC.

4. ERECTION OF SHEDS OR STRUCTURES. IMPOUNDMENT OF WATER.

6. EXCAVATION OR OTHER DIGGING UNLESS OTHERWISE INDICATED.

7. ATTACHMENT OF SIGNS TO OR WRAPPING MATERIALS AROUND TREES OR PLANTS UNLESS OTHERWISE INDICATED. G. DO NOT DIRECT VEHICLE OR EQUIPMENT EXHAUST TOWARDS PROTECTION ZONES.

H. PROHIBIT HEAT SOURCES, FLAMES, IGNITION SOURCES, AND SMOKING WITHIN OR NEAR PROTECTION ZONES.

# PART 2 - PRODUCTS

A. GENERAL: PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS.

B. SATISFACTORY SOILS: SOIL CLASSIFICATION [GROUPS GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D 2487][GROUPS A-1, A-2-4, A-2-5, AND A-3 ACCORDING TO AASHTO M 145], OR A COMBINATION OF THESE GROUPS FREE OF ROCK OR GRAVEL LARGER THAN [3 INCHES] IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.

C. UNSATISFACTORY SOILS: SOIL CLASSIFICATION [GROUPS GC, SC, CL, ML, OL, CH, MH, OH, AND PT ACCORDING TO ASTM D 2487][GROUPS A-2-6, A-2-7, A-4, A-5, A-6, AND A-7 ACCORDING TO AASHTO M 145], OR A COMBINATION OF

1. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION. D. SUBBASE MATERIAL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 90 PERCENT PASSING A 1-1/2-INCH SIEVE AND NOT MORE THAN 12 PERCENT PASSING A NO. 200 SIEVE.

E. BASE COURSE: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED

STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 95 PERCENT PASSING A 1-1/2 INCH SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE. F. BEDDING COURSE: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; EXCEPT WITH 100 PERCENT PASSING A 1 INCH SIEVE AND

G. DRAINAGE COURSE: NARROWLY GRADED MIXTURE OF [WASHED] CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 57; WITH 100 PERCENT PASSING A 1-1/2 INCH SIEVE AND 0 TO 5 PERCENT PASSING A NO.8 SIEVE. H. FILTER MATERIAL: NARROWLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, OR CRUSHED STONE AND

NATURAL SAND; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 67; WITH 100 PERCENT PASSING A 1 INCH SIEVE AND 0 TO 5 PERCENT PASSING A NO.4 SIEVE.

I. SAND: ASTM C 33; FINE AGGREGATE. J. IMPERVIOUS FILL: CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.

A. SEPARATION GEOTEXTILE: WOVEN GEOTEXTILE FABRIC, MANUFACTURED FOR SEPARATION APPLICATIONS, MADE FROM POLYOLEFIN'S OR POLYESTERS; WITH ELONGATION LESS THAN 50 PERCENT; COMPLYING WITH AASHTO M 288 AND THE FOLLOWING, MEASURED PER TEST METHODS REFERENCED:

 SURVIVABILITY: CLASS 2; AASHTO M 288. 2. GRAB TENSILE STRENGTH: 247 IBF; ASTM D 4632. 3. SEWN SEAM STRENGTH: 2221BF; ASTM D 4632.

NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE.

4. TEAR STRENGTH: 90 LBF; ASTM D 4533. 5. PUNCTURE STRENGTH: 90 LBF; ASTM D 4833. 6. APPARENT OPENING SIZE: NO. 60 SIEVE, MAXIMUM; ASTM D 4751. 7. PERMEABILITY: 0.02 PER SECOND. MINIMUM: ASTM D 4491.

8. UV STABILITY: 50 PERCENT AFTER 500 HOURS' EXPOSURE; ASTM D 4355.

# EARTHWORK (CONT'D)

# PART 3 - EXECUTION

A. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING

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B. PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING EARTH MOVING OPERATIONS. C. PROTECT SUBGRADES AND FOUNDATION SOILS FROM FREEZING TEMPERATURES AND FROST. REMOVE TEMPORARY PROTECTION BEFORE PLACING SUBSEQUENT MATERIALS.

## 3.2 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 RAM OR WATER ACCUMULATION. 1. REROUTE SURFACE WATER RUNOFF AWAY FROM EXCAVATED AREAS. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES.

A. UNCLASSIFIED EXCAVATION: EXCAVATE TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED. UNCLASSIFIED EXCAVATED MATERIALS MAY INCLUDE ROCK. SOIL MATERIALS, AND OBSTRUCTIONS. NO CHANGES IN THE CONTRACT SUM OR THE CONTRACT TIME WILL BE

1. IF EXCAVATED MATERIALS INTENDED FOR FILL AND BACKFILL INCLUDE UNSATISFACTORY SOIL MATERIALS AND ROCK, REPLACE WITH SATISFACTORY SOIL MATERIALS. 2. REMOVE ROCK TO LINES AND GRADES INDICATED TO PERMIT INSTALLATION OF PERMANENT CONSTRUCTION WITHOUT EXCEEDING THE FOLLOWING DIMENSIONS:

A. [24 INCHES] OUTSIDE OF CONCRETE FORMS OTHER THAN AT FOOTINGS.

AUTHORIZED FOR ROCK EXCAVATION OR REMOVAL OF OBSTRUCTIONS.

B. [12 INCHES] OUTSIDE OF CONCRETE FORMS AT FOOTINGS. C. [6 INCHES] OUTSIDE OF MINIMUM REQUIRED DIMENSIONS OF CONCRETE CAST AGAINST GRADE. D. OUTSIDE DIMENSIONS OF CONCRETE WALLS INDICATED TO BE CAST AGAINST ROCK WITHOUT FORMS OR EXTERIOR WATERPROOFING TREATMENTS

E. [6 INCHES] BENEATH BOTTOM OF CONCRETE SLABS-ON-GRADE. F. [6 INCHES] BENEATH PIPE IN TRENCHES, AND THE GREATER OF [24 INCHES] WIDER THAN PIPE OR [42 INCHES] WIDE.

3.4 EXCAVATION FOR STRUCTURES A. EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. IF APPLICABLE, EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR INSPECTIONS. 1. EXCAVATIONS FOR FOOTINGS AND FOUNDATIONS: DO NOT DISTURB BOTTOM OF EXCAVATION. EXCAVATE BY HAND TO FINAL GRADE JUST BEFORE PLACING CONCRETE REINFORCEMENT. TRIM BOTTOMS TO REQUIRED LINES AND GRADES TO LEAVE SOLID BASE TO RECEIVE OTHER WORK.

2. EXCAVATION FOR UNDERGROUND TANKS, BASINS, AND MECHANICAL OR ELECTRICAL UTILITY STRUCTURES: EXCAVATE TO ELEVATIONS AND DIMENSIONS INDICATED WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. DO NOT DISTURB BOTTOM OF EXCAVATIONS INTENDED AS BEARING SURFACES. B. EXCAVATIONS AT EDGES OF TREE- AND PLANT-PROTECTION ZONES:

1. EXCAVATE BY HAND TO INDICATED LINES, CROSS SECTIONS, ELEVATIONS, AND SUBGRADES. USE NARROW-TINE SPADING FORKS TO COMB SOIL AND EXPOSE ROOTS. DO NOT BREAK, TEAR, OR CHOP EXPOSED ROOTS. DO NOT USE MECHANICAL EQUIPMENT THAT RIPS, TEARS, OR PULLS ROOTS. 2. CUT AND PROTECT ROOTS ACCORDING TO REQUIREMENTS IN DIVISION 2 SECTION "TREE PROTECTION AND TRIMMING."

# 3.5 EXCAVATION FOR WALKS AND PAVEMENTS A. EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO INDICATED LINES, CROSS SECTIONS, ELEVATIONS, AND

# 3.6 EXCAVATION FOR UTILITY TRENCHES

A. EXCAVATE TRENCHES TO INDICATED GRADIENTS, LINES, DEPTHS, AND ELEVATIONS.

B. EXCAVATE TRENCHES TO UNIFORM WIDTHS TO PROVIDE THE FOLLOWING CLEARANCE ON EACH SIDE OF PIPE OR CONDUIT. EXCAVATE TRENCH WALLS VERTICALLY FROM TRENCH BOTTOM TO 12 INCHES HIGHER THAN TOP OF PIPE OR CONDUIT UNLESS OTHERWISE INDICATED.

1. CLEARANCE: [12 INCHES EACH SIDE OF PIPE OR CONDUIT] [AS INDICATED]. C. TRENCH BOTTOMS: EXCAVATE AND SHAPE TRENCH BOTTOMS TO PROVIDE UNIFORM BEARING AND SUPPORT OF PIPES AND CONDUIT. SHAPE SUBGRADE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS. REMOVE PROJECTING STONES AND SHARP OBJECTS ALONG TRENCH SUBGRADE. 1. FOR PIPES AND CONDUIT LESS THAN 6 INCHES IN NOMINAL DIAMETER, HAND-EXCAVATE TRENCH BOTTOMS AND

SUPPORT PIPE AND CONDUIT ON AN UNDISTURBED SUBGRADE. 2. FOR PIPES AND CONDUIT 6 INCHES OR LARGER IN NOMINAL DIAMETER, SHAPE BOTTOM OF TRENCH TO SUPPORT BOTTOM 90 DEGREES OF PIPE OR CONDUIT CIRCUMFERENCE, FILL DEPRESSIONS WITH TAMPED SAND BACKFILL 3. FOR FLAT-BOTTOMED, MULTIPLE-DUCT CONDUIT UNITS, HAND-EXCAVATE TRENCH BOTTOMS AND SUPPORT CONDUIT ON AN UNDISTURBED SUBGRADE.

4. EXCAVATE TRENCHES 6 INCHES DEEPER THAN ELEVATION REQUIRED IN ROCK OR OTHER UNYIELDING BEARING MATERIAL TO ALLOW FOR BEDDING COURSE D. TRENCH BOTTOMS: EXCAVATE TRENCHES 4 INCHES DEEPER THAN BOTTOM OF PIPE AND CONDUIT ELEVATIONS TO ALLOW FOR BEDDING COURSE. HAND-EXCAVATE DEEPER FOR BELLS OF PIPE. 1. EXCAVATE TRENCHES 6 INCHES DEEPER THAN ELEVATION REQUIRED IN ROCK OR OTHER UNYIELDING BEARING

MATERIAL TO ALLOW FOR BEDDING COURSE. . TRENCHES IN TREE- AND PLANT-PROTECTION ZONES: 1. HAND-EXCAVATE TO INDICATED LINES, CROSS SECTIONS, ELEVATIONS, AND SUBGRADES. USE NARROW TINE SPADING FORKS TO COMB SOIL AND EXPOSE ROOTS. DO NOT BREAK, TEAR, OR CHOP EXPOSED ROOTS. DO NOT USE MECHANICAL EQUIPMENT THAT RIPS, TEARS, OR PULLS ROOTS. 2. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS; CUT ONLY SMALLER ROOTS THAT INTERFERE WITH

3. CUT AND PROTECT ROOTS ACCORDING TO REQUIREMENTS IN DIVISION 2 SECTION "TREE PROTECTION AND TRIMMING."

3.7 SUBGRADE INSPECTION A. NOTIFY ARCHITECT WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE. B. IF ARCHITECT DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.

C. PROOF-ROLL SUBGRADE 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. 1. COMPLETELY PROOF-ROLL SUBGRADE IN ONE DIRECTION [, REPEATING PROOF-ROLLING IN DIRECTION PERPENDICULAR TO FIRST DIRECTION]. LIMIT VEHICLE SPEED TO 3 MPH.

2. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY ARCHITECT, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED. D. AUTHORIZED ADDITIONAL EXCAVATION AND REPLACEMENT MATERIAL WILL BE PAID FOR ACCORDING TO CONTRACT PROVISIONS FOR JUNIT PRICES1.

CONSTRUCTION ACTIVITIES, AS DIRECTED BY ARCHITECT, WITHOUT ADDITIONAL COMPENSATION. 3.8 UNAUTHORIZED EXCAVATION A. FILL UNAUTHORIZED EXCAVATION UNDER FOUNDATIONS OR WALL FOOTINGS BY EXTENDING BOTTOM ELEVATION OF CONCRETE FOUNDATION OR FOOTING TO EXCAVATION BOTTOM, WITHOUT ALTERING TOP ELEVATION. LEAN

E. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR

CONCRETE FILL, WITH 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI, MAY BE USED WHEN APPROVED BY ARCHITECT. 1. FILL UNAUTHORIZED EXCAVATIONS UNDER OTHER CONSTRUCTION, PIPE, OR CONDUIT AS DIRECTED BY

3.9 STORAGE OF SOIL MATERIALS A. STOCKPILE BORROWS SOIL MATERIALS AND EXCAVATED SATISFACTORY SOIL MATERIALS WITHOUT INTERMIXING. PLACE GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER WITH STRAW AND SEED TO PREVENT

REMAINING TREES.

1. STOCKPILE SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS. DO NOT STORE WITHIN DRIP LINE OF

A. PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY, BUT NOT BEFORE COMPLETING THE FOLLOWING: 1. CONSTRUCTION BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, SUBDRAINAGE, DAMP PROOFING, WATERPROOFING, AND PERIMETER INSULATION.

2. SURVEYING LOCATIONS OF UNDERGROUND UTILITIES FOR RECORD DOCUMENTS. 3. TESTING AND INSPECTING UNDERGROUND UTILITIES. 4. REMOVING CONCRETE FORMWORK. 5. REMOVING TRASH AND DEBRIS.

INSTALLING PERMANENT OR TEMPORARY HORIZONTAL BRACING ON HORIZONTALLY SUPPORTED WALLS. B. PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

B. 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. TRENCHES UNDER FOOTINGS: BACKFILL TRENCHES EXCAVATED UNDER FOOTINGS AND WITHIN 18 INCHES OF

FOOTING BOTTOM WITH SATISFACTORY SOIL; FILL WITH CONCRETE TO ELEVATION OF BOTTOM OF FOOTINGS.

CONCRETE IS SPECIFIED IN DIVISION 3 SECTION. BACKFILL VOIDS WITH SATISFACTORY SOIL WHILE REMOVING SHORING AND BRACING. E. PLACE AND COMPACT INITIAL BACKFILL OF [SUBBASE MATERIAL] AND [SATISFACTORY SOIL], FREE OF PARTICLES LARGER THAN [1 INCH] IN ANY DIMENSION, TO A HEIGHT OF 12 INCHES OVER THE PIPE OR CONDUIT. 1. 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.

# F. PLACE AND COMPACT FINAL BACKFILL OF SATISFACTORY SOIL TO FINAL SUBGRADE ELEVATION.

A. PLOW, SCARIFY, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN I VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL.

B. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS AS FOLLOWS: 1. UNDER GRASS AND PLANTED AREAS, USE SATISFACTORY SOIL MATERIAL 2. UNDER WALKS AND PAVEMENTS, USE SATISFACTORY SOIL MATERIAL. UNDER STEPS AND RAMPS, USE ENGINEERED FILL.

6. REMOVING TEMPORARY SHORING AND BRACING, AND SHEETING.

A. PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

COORDINATE BACKFILLING WITH UTILITIES TESTING.

4. UNDER BUILDING SLABS, USE ENGINEERED FILL.

C. COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO [ASTM D 698][ASTM D 1557]: 1. UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RECOMPACT TOP 12 INCHES OF

2. WALKS: PLUS OR MINUS [1 INCH].

3.17 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

SPECIAL INSPECTIONS:

REQUIREMENTS.

FREE OF TRASH AND DEBRIS.

3.14 COMPACTION OF SOIL BACKFILLS AND FILLS

COMPACTED BY HAND-OPERATED TAMPERS

UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.

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5. UNDER FOOTINGS AND FOUNDATIONS, USE ENGINEERED FILL. C. PLACE SOIL FILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.

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EARTHWORK (CONT'D)

SUBGRADE AND EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT [98] PERCENT STANDARD 2. UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT [92] PERCENT.

3. UNDER TURF OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT [85] PERCENT. 4. FOR UTILITY TRENCHES, COMPACT EACH LAYER OF INITIAL AND FINAL BACKFILL SOIL MATERIAL AT [85] PERCENT

A. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL SOIL LAYER BEFORE

1. DO NOT PLACE BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST

2. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS

OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED DRY UNIT WEIGHT.

COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL

A. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL

B. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND

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. SITE ROUGH GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING.FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES: 1. TURF OR UNPAVED AREAS: PLUS OR MINUS [1 INCH].

3. PAVEMENTS: PLUS OR MINUS [112 INCH]. C. GRADING INSIDE BUILDING LINES: FINISH SUBGRADE TO A TOLERANCE OF [112 INCH] WHEN TESTED WITH A LO-FOOT

A. SUBDRAINAGE PIPE: SPECIFIED IN DIVISION 2 SECTION "SUBDRAINAGE," B. SUBSURFACE DRAIN: PLACE SUBSURFACE DRAINAGE GEOTEXTILE AROUND PERIMETER OF SUBDRAINAGE TRENCH. PLACE A 6-INCH COURSE OF FILTER MATERIAL ON SUBSURFACE DRAINAGE GEOTEXTILE TO SUPPORT SUBDRAINAGE PIPE. ENCASE SUBDRAINAGE PIPE IN A MINIMUM OF 12 INCHES OF FILTER MATERIAL. PLACED IN COMPACTED LAYERS 6 INCHES THICK, AND WRAP IN SUBSURFACE DRAINAGE GEOTEXTILE, OVERLAPPING SIDES AND ENDS AT 1. COMPACT EACH FILTER MATERIAL LAYER [TO 85 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D

698][WITH A MINIMUM OF TWO PASSES OF A PLATE-TYPE VIBRATORY COMPACTOR]. C. DRAINAGE BACKFILL: PLACE AND COMPACT FILTER MATERIAL OVER SUBSURFACE DRAIN, IN WIDTH INDICATED, TO WITHIN 12 INCHES OF FINAL SUBGRADE, IN COMPACTED LAYERS 6 INCHES THICK. OVERLAY DRAINAGE BACKFILL WITH ONE LAYER OF SUBSURFACE DRAINAGE GEOTEXTILE, OVERLAPPING SIDES AND ENDS AT LEAST 6 INCHES. 1. COMPACT EACH FILTER MATERIAL LAYER [TO 85 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698][WITH A MINIMUM OF TWO PASSES OF A PLATE-TYPE VIBRATORY COMPACTOR].

A. PLACE SUBBASE COURSE AND BASE COURSE ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE. B. ON PREPARED SUBGRADE, PLACE SUBBASE COURSE UNDER PAVEMENTS AND WALKS AS FOLLOWS: 1. SHAPE SUBBASE COURSE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES. 2. PLACE SUBBASE COURSE 6 INCHES OR LESS IN COMPACTED THICKNESS IN A SINGLE LAYER. 3. PLACE SUBBASE COURSE THAT EXCEEDS 6 INCHES IN COMPACTED THICKNESS IN LAYERS OF EQUAL THICKNESS,

WITH NO COMPACTED LAYER MORE THAN 6 INCHES THICK OR LESS THAN 3 INCHES THICK.

2. PLACE AND COMPACT IMPERVIOUS FILL OVER DRAINAGE BACKFILL IN 6-INCH THICK COMPACTED LAYERS TO FINAL

AND THICKNESS TO NOT LESS THAN [95] PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO [ASTM D C. PAVEMENT SHOULDERS: PLACE SHOULDERS ALONG EDGES OF SUBBASE COURSE [AND BASE COURSE] TO PREVENT LATERAL MOVEMENT. CONSTRUCT SHOULDERS, AT LEAST 12 INCHES WIDE, OF SATISFACTORY SOIL MATERIALS AND COMPACT SIMULTANEOUSLY WITH EACH SUBBASE [AND BASE] LAYER TO NOT LESS THAN [95] PERCENT OF

4. COMPACT SUBBASE COURSE AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS.

A. SPECIAL INSPECTIONS: OWNER WILL ENGAGE A QUALIFIED SPECIAL INSPECTOR TO PERFORM THE FOLLOWING

MAXIMUM DRY UNIT WEIGHT ACCORDING TO [ASTM D 698][ASTM D 1557].

1. DETERMINE PRIOR TO PLACEMENT OF FILL THAT SITE HAS BEEN PREPARED IN COMPLIANCE WITH 2. DETERMINE THAT FILL MATERIAL AND MAXIMUM LIFT THICKNESS COMPLY WITH REQUIREMENTS. 3. DETERMINE, AT THE REQUIRED FREQUENCY, THAT IN-PLACE DENSITY OF COMPACTED FILL COMPLIES WITH

B. TESTING AGENCY: OWNER WILL ENGAGE A QUALIFIED GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS. C. ALLOW TESTING AGENCY TO INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTH MOVING ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH D. FOOTING SUBGRADE: AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED

SUBGRADES MAY BE BASED ON A VISUAL COMPARISON OF SUBGRADE WITH TESTED SUBGRADE WHEN APPROVED BY E. TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1556, ASTM D 2167, ASTM D 2922, AND ASTM D 2937, AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND

TO VERIFY DESIGN-BEARING CAPACITIES. SUBSEQUENT VERIFICATION AND APPROVAL OF OTHER FOOTING

1. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST ONE TEST FOR EVERY [2000 SQ. FT.] OR LESS OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN

2. FOUNDATION WALL BACKFILL: AT EACH COMPACTED BACKFILL LAYER, AT LEAST ONE TEST FOR EVERY [100 FEET] OR LESS OF WALL LENGTH, BUT NO FEWER THAN TWO TESTS. 3. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, AT LEAST ONE TEST FOR EVERY [150 FEET] OR LESS OF TRENCH LENGTH, BUT NO FEWER THAN TWO TESTS. F. WHEN TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF

COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL MATERIALS TO DEPTH

REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED. A. PROTECTING GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP

B. REPAIR AND RE-ESTABLISH GRADES TO SPECIFY TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COMPACTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS. 1. SCARIFY OR REMOVE AND REPLACE SOIL MATERIAL TO DEPTH AS DIRECTED BY ARCHITECT RESHAPE AND RECOMPACT

C. WHERE SETTLING OCCURS BEFORE PROJECT CORRECTION PERIOD ELAPSES, REMOVE FINISHED SURFACING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACING. 1. RESTORE APPEARANCE, QUALITY, AND CONDITION OF FINISHED SURFACING TO MATCH ADJACENT WORK, AND ELIMINATE EVIDENCE OF RESTORATION TO GREATEST EXTENT POSSIBLE.

3.20 DISPOSAL OF SURPLUS AND WASTE MATERIALS A. TRANSPORT SURPLUS SATISFACTORY SOIL TO DESIGNATED STORAGE AREAS ON OWNER'S PROPERTY. STOCKPILE OR SPREAD SOIL AS DIRECTED BY ARCHITECT. 1. REMOVE WASTE MATERIALS, INCLUDING UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF

# THEM OFF OWNER'S PROPERTY. STORM DRAINAGE

# PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. SECTION INCLUDES:

6. STORMWATER INLETS.

PIPE OUTLETS.

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION. B. COMPLETION SURVEY OF DETENTION POND AND CERTIFICATION REQUIREMENTS FOR POND AND STORM SYSTEM.

1. PIPE AND FITTINGS. 3. ENCASEMENT FOR PIPING. MANHOLES. CATCH BASINS.

7. STORMWATER DETENTION STRUCTURES.

## 1.3 SUBMITTALS A. SHOP DRAWINGS:

MANHOLES: INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, FRAMES, AND COVERS. 2. CATCH BASIN STORMWATER INLETS. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, FRAMES, COVERS, AND

3. STORMWATER DETENTION STRUCTURES: INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, FRAMES, COVERS, DESIGN CALCULATIONS, AND CONCRETE DESIGN-MIX REPORTS.

P: (770) 451-2741 F: (770) 451-3915

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LAND PLANNING + LANDSCAPE ARCHITECTURE + CIVIL ENGINEERING ARBORISTS + SURVEYING & CONSTRUCTION + WATER RESOURCES

> 350 RESEARCH COURT STE 200 PEACHTREE CORNERS, GA 30092

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# CHAMPION'S RUN - PHASE 2 RNC SKETCH PLAT

A MASTER PLANNED RESIDENTIAL **DEVELOPMENT** 

LITHONIA, GA 30058

8682 PLEASANT HILL RD

AP # 1246254

# **REVISIONS**

DATE BY DESCRIPTION 6-17-22 | CAH | 1ST SKETCH PLAT SUBMITTAL 12-21-22 CAH 2ND SKETCH PLAT SUBMITT -3 | 07-10-23 | CAH | 3RD SKETCH PLAT SUBMITTAL 04-26-24 | CAH | 4TH SKETCH PLAT SUBMITTAL 11-15-24 | CAH | 5TH SKETCH PLAT SUBMITTAL

THIS SEAL IS ONLY VALID IF COUNTER SIGNED

AND DATED WITH AN ORIGINAL SIGNATURE. No. 37096 PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL

CERTIFICATION # 0000066476 EXP. 06/27/2027

DATE:

PROJECT:

11/15/2024 16309.02

SHEET

# PLANNERS AND ENGINEERS COLLABORATIVE STANDARDS AND SPECIFICATIONS

A. PROTECT PIPE, PIPE FITTINGS, AND SEALS FROM DIRT AND DAMAGE.

1. SPECIAL-JOINT BANDS: CORRUGATED STEEL WITH O-RING SEALS.

B. HANDLE MANHOLES ACCORDING TO MANUFACTURER'S WRITTEN RIGGING INSTRUCTIONS. C. HANDLE CATCH BASINS AND STORMWATER INLETS ACCORDING TO MANUFACTURER'S WRITTEN RIGGING

A. INTERRUPTION OF EXISTING STORM DRAINAGE SERVICE: DO NOT INTERRUPT SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY SERVICE ACCORDING TO REQUIREMENTS INDICATED:

1. NOTIFY [ARCHITECT] [CONSTRUCTION MANAGER] [OWNER] NO FEWER THAN [TWO] DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF SERVICE.

2. DO NOT PROCEED WITH INTERRUPTION OF SERVICE WITHOUT [ARCHITECT'S] [CONSTRUCTION MANAGER'S] [OWNER'S] WRITTEN PERMISSION.

## PART 2 - PRODUCTS

## 2.1 STEEL PIPE AND FITTINGS

A. ALUMINIZED TYPE II CORRUGATED - STEEL PIPE AND FITTINGS: ASTM A 760/A 760M, TYPE L OR AASHTO M36 WITH FITTINGS OF SIMILAR FORM AND CONSTRUCTION AS PIPE. 1. SPECIAL-JOINT BANDS: CORRUGATED STEEL, H-12 HUGGER BANDS WITH BAR, BOLT AND STRAP CONNECTOR.

2.2 ALUMINUM PIPE AND FITTINGS A. CORRUGATED ALUMINUM PIPE AND FITTINGS: ASTM B 745/B 745M, TYPE I WITH FITTINGS OF SIMILAR FORM AND CONSTRUCTION AS PIPE

2.3 CONCRETE PIPE AND FITTINGS A. REINFORCED-CONCRETE SEWER PIPE AND FITTINGS: ASTM C 76.

1. BELL-AND-SPIGOT ENDS AND [GASKETED JOINTS WITH ASTM C 443, RUBBER GASKETS] [SEALANT JOINTS WITH ASTM C 990, BITUMEN OR BUTYL-RUBBER SEALANTI.

2. CLASS I, [WALL A] [WALL B]. 3. CLASS IV, [WALL A] [WALL B][WALL C].

# 2.4 HDPE PIPE AND FITTINGS

A. SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS AND FITTINGS:AASHTO M252 (4"-10" DIAMETER) AASHTO M294 (12"-48")

B. JOINT PERFORMANCE: PIPES SHALL BE JOINTED BY BELL AND SPIGOT ACCORDING AASHTO M252, M294, OR ASTM F2306. THE JOINT SHALL BE SOIL TIGHT AND GASKETS, WHEN APPLICABLE, SHALL MEET THE REQUIREMENTS OF

ASTM F477. C. FITTINGS: FITTINGS SHALL CONFORM TO AASHTO M252, M294, OR ASTM F2306, BELL AND SPIGOT CONNECTIONS SHALL UTILIZE A SPUN-ON OR WELDED BELL AND VALLEY OR SADDLE GASKET MEETING THE SOIL TIGHT JOINT PERFORMANCE REQUIREMENTS OF AASHTO M252, M294, OR ASTM F2306.

## 2.5 NONPRESSURE TRANSITION COUPLINGS

A. SLEEVE MATERIALS: 1. FOR CONCRETE PIPES: ASTM C 443, RUBBER.

# A. CAST-IRON AREA DRAINS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, [PROVIDE PRODUCTS BY ONE OF THE FOLLOWING][AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING]:

## 2.7 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. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, AND LENGTHS TO PROVIDE DEPTH INDICATED. 4. 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.

5. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER 6. STEPS: [INDIVIDUAL FRP STEPS OR FRP LADDER][INDIVIDUAL FRP STEPS; FRP LADDER; OR ASTM A 615/A 615M, DEFORMED, 112-INCH STEEL REINFORCING RODS ENCASED IN ASTM D 4101, PP](ASTM A 615/A 615M, DEFORMED,

112-INCH STEEL REINFORCING RODS ENCASED IN ASTM D 4101, PP] 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 [60 INCHES]. 7. GRADE RINGS: REINFORCED-CONCRETE RINGS, 6- TO 9-INCH TOTAL THICKNESS, TO MATCH DIAMETER OF

MANHOLE FRAME AND COVER, AND HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE. B. MANHOLE FRAMES AND COVERS: 1. DESCRIPTION: FERROUS 24-INCH ILL 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 2. MATERIAL: [ASTM A 536, GRADE 60-40-18 DUCTILE][ASTM A 48/A 48M, CLASS 35 GRAY] IRON UNLESS OTHERWISE

# 2.8 POLYMER-CONCRETE, CHANNEL DRAINAGE SYSTEMS

# A. DRAINAGE SPECIALTIES: PRECAST, POLYMER-CONCRETE UNITS.

A. STANDARD PRECAST CONCRETE CATCH BASINS:

1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR 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. ADJUSTING RINGS: INTERLOCKING RINGS WITH LEVEL OR SLOPED EDGE IN THICKNESS AND SHAPE MATCHING CATCH BASIN FRAME AND GRATE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.

7. GRADE RINGS: INCLUDE TWO OR THREE REINFORCED-CONCRETE RINGS, OF 6- TO 9-INCH TOTAL THICKNESS, THAT MATCH 24-INCH DIAMETER FRAME AND GRATE. 8. STEPS: [INDIVIDUAL FRP STEPS OR FRP LADDER][INDIVIDUAL FRP STEPS; FRP LADDER; OR ASTM A 615/A 615M, DEFORMED, 1/2-INCH STEEL REINFORCING RODS ENCASED IN ASTM D 4101, PP][ASTM A 615/A 615M, DEFORMED, 112-INCH STEEL REINFORCING RODS ENCASED IN ASTM D 4101, PP] 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 [60 INCHES]. 9. PIPE CONNECTORS: ASTM C 923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO BASE SECTION. B. FRAMES AND GRATES: ASTM A 536, GRADE 60-40-18, DUCTILE IRON DESIGNED FOR A-16, STRUCTURAL LOADING. INCLUDE FLAT GRATE WITH SMALL SQUARE OR SHORT-SLOTTED DRAINAGE OPENINGS.

# 1. SIZE: 24 BY 24 INCHES MINIMUM UNLESS OTHERWISE INDICATED.

2.10 STORMWATER INLETS

A. CURB INLETS: MADE WITH VERTICAL CURB OPENING [OF MATERIALS AND DIMENSIONS ACCORDING TO UTILITY B. COMBINATION INLETS: MADE WITH VERTICAL CURB AND HORIZONTAL GUTTER OPENINGS [OF MATERIALS AND

# DIMENSIONS ACCORDING TO UTILITY STANDARDS]. INCLUDE HEAVY-DUTY FRAMES AND GRATES.

2.11 STORMWATER DETENTION OUTLET CONTROL STRUCTURES A. CAST-IN-PLACE CONCRETE, STORMWATER DETENTION OUTLET CONTROL STRUCTURES: CONSTRUCTED OF REINFORCED-CONCRETE BOTTOM, WALLS, AND TOP; DESIGNED ACCORDING TO ASTM C 890 FOR A-16 (AASHTO HS20-44), HEAVY-TRAFFIC, STRUCTURAL LOADING; OF DEPTH, SHAPE, DIMENSIONS, AND APPURTENANCES

1. BALLAST: INCREASE THICKNESS OF CONCRETE AS REQUIRED TO PREVENT FLOTATION.

A. HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE, WITH APRON AND TAPERED SIDES. B. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE ACCORDING TO NSSGA'S "QUARRIED

STONE FOR EROSION AND SEDIMENT CONTROL." C. FILTER STONE: ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL," NO. FS-2, NO.4 SCREEN OPENING, AVERAGE-SIZE GRADED STONE. D. ENERGY DISSIPATERS: ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL," NO.

# A-I, 3-TON AVERAGE WEIGHT ARMOR STONE, UNLESS OTHERWISE INDICATED. PART 3 - EXECUTION

# A. EXCAVATION, TRENCHING, AND BACKFILLING ARE SPECIFIED IN DIVISION 2 SECTION "EARTHWORK."

PIPEJACKING PROCESS OF MICRO-TUNNELING.

A. GENERAL LOCATIONS AND ARRANGEMENTS: DRAWING PLANS AND DETAILS INDICATE GENERAL LOCATION AND ARRANGEMENT OF UNDERGROUND STORM DRAINAGE PIPING. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE INTO ACCOUNT DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED, TO EXTENT PRACTICAL. WHERE SPECIFIC INSTALLATION IS NOT INDICATED, FOLLOW PIPING MANUFACTURER'S WRITTEN INSTRUCTIONS.

B. INSTALL PIPING BEGINNING AT LOW POINT, TRUE TO GRADES AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. PLACE BELL ENDS OF PIPING FACING UPSTREAM. INSTALL GASKETS, SEALS, SLEEVES, AND COUPLINGS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR USE OF LUBRICANTS, CEMENTS, AND OTHER INSTALLATION REQUIREMENTS.

C. INSTALL MANHOLES FOR CHANGES IN DIRECTION UNLESS FITTINGS ARE INDICATED. USE FITTINGS FOR BRANCH

CONNECTIONS UNLESS DIRECT TAP INTO EXISTING SEWER IS INDICATED. D. INSTALL PROPER SIZE INCREASERS, REDUCERS, AND COUPLINGS WHERE DIFFERENT SIZES OR MATERIALS OF PIPES AND FITTINGS ARE CONNECTED. REDUCING SIZE OF PIPING IN DIRECTION OF FLOW IS PROHIBITED.

E. WHEN INSTALLING PIPE UNDER STREETS OR OTHER OBSTRUCTIONS THAT CANNOT BE DISTURBED, USE

## STORM DRAINAGE (CONT'D)

F. INSTALL GRAVITY-FLOW, NON-PRESSURE DRAINAGE PIPING ACCORDING TO THE FOLLOWING:

1. INSTALL PIPING PITCHED DOWN IN DIRECTION OF FLOW. 2. INSTALL PIPING WITH 36-INCH MINIMUM COVER.

. INSTALL CORRUGATED STEEL PIPING ACCORDING TO ASTM A 798/A 798M. 4. INSTALL CORRUGATED ALUMINUM PIPING ACCORDING TO ASTM B 788/B 788M. 5. INSTALL REINFORCED-CONCRETE SEWER PIPING ACCORDING TO ASTM C 1479 AND ACPA'S "CONCRETE PIPE INSTALLATION MANUAL."

# 3.3 PIPE JOINT CONSTRUCTION

A. JOIN GRAVITY-FLOW, NON-PRESSURE DRAINAGE PIPING ACCORDING TO THE FOLLOWING: JOIN CORRUGATED STEEL SEWER PIPING ACCORDING TO ASTM A 798/A 798M.

6. INSTALL HDPE PIPE ACCORDING TO SECTION 550 OF THE GDOT STANDARD SPECIFICATIONS

2. JOIN CORRUGATED ALUMINUM SEWER PIPING ACCORDING TO ASTM B 788/B 788M. 3. JOIN REINFORCED-CONCRETE SEWER PIPING ACCORDING TO ACPA'S "CONCRETE PIPE INSTALLATION MANUAL" FOR RUBBER-GASKETED JOINTS.

# 4. JOIN HDPE PIPING ACCORDING TO AASHTO M252, M294, OR ASTM F2306.

#### 3.4 DRAIN INSTALLATION A. INSTALL TYPE OF DRAINS IN LOCATIONS INDICATED.

1. USE HEAVY-DUTY, TOP-LOADING CLASSIFICATION DRAINS IN [VEHICLE-TRAFFIC SERVICE] AREAS.

#### 3.5 MANHOLE INSTALLATION A. GENERAL: INSTALL MANHOLES, COMPLETE WITH APPURTENANCES AND ACCESSORIES INDICATED.

SET TOPS [3 INCHES] ABOVE FINISHED SURFACE ELSEWHERE UNLESS OTHERWISE INDICATED.

B. INSTALL PRECAST CONCRETE MANHOLE SECTIONS WITH SEALANTS ACCORDING TO ASTM C 891. C. SET TOPS OF FRAMES AND COVERS FLUSH WITH FINISHED SURFACE OF MANHOLES THAT OCCUR IN PAVEMENTS.

B. SET FRAMES AND GRATES TO ELEVATIONS INDICATED.

3.6 CATCH BASIN INSTALLATION A. CONSTRUCT CATCH BASINS TO SIZES AND SHAPES INDICATED.

# 3.7 STORMWATER INLET INSTALLATION

A. CONSTRUCT INLET HEAD WALLS, APRONS, AND SIDES OF REINFORCED CONCRETE, AS INDICATED. B CONSTRUCT RIPRAP OF BROKEN STONE AS INDICATED

C. INSTALL OUTLETS THAT SPILL ONTO GRADE, WITH FLARED END SECTIONS THAT MATCH PIPE, WHERE INDICATED. D. CONSTRUCT ENERGY DISSIPATERS AT OUTLETS, AS INDICATED.

#### 3.8 CONCRETE PLACEMENT A. PLACE CAST-IN-PLACE CONCRETE ACCORDING TO ACI 318. 3.9

3.10 CHANNEL DRAINAGE SYSTEM INSTALLATION

A. INSTALL WITH TOP SURFACES OF COMPONENTS, EXCEPT PIPING, FLUSH WITH FINISHED SURFACE. B. ASSEMBLE CHANNEL SECTIONS TO FORM SLOPE DOWN TOWARD DRAIN OUTLETS. USE SEALANTS, ADHESIVES, FASTENERS, AND OTHER MATERIALS RECOMMENDED BY SYSTEM MANUFACTURER

C. EMBED CHANNEL SECTIONS AND DRAINAGE SPECIALTIES IN [4-INCH] MINIMUM CONCRETE AROUND BOTTOM AND

D. FASTEN GRATES TO CHANNEL SECTIONS IF INDICATED.

E. ASSEMBLE CHANNEL SECTIONS WITH FLANGED OR INTERLOCKING JOINTS. F. EMBED CHANNEL SECTIONS IN [4-INCH] MINIMUM CONCRETE AROUND BOTTOM AND SIDES.

ADDITIONAL SUPPORT OF COLLAR FROM CONNECTION TO UNDISTURBED GROUND.

A. CONNECT NON-PRESSURE; GRAVITY-FLOW DRAINAGE PIPING IN BUILDING'S STORM BUILDING DRAINS SPECIFIED IN DIVISION 15 SECTION "STORM DRAINAGE PIPING."

B. CONNECT FORCE-MAIN PIPING TO BUILDING'S STORM DRAINAGE FORCE MAINS SPECIFIED IN DIVISION 15 SECTION "STORM DRAINAGE PIPING." TERMINATE PIPING WHERE INDICATED. C. MAKE CONNECTIONS TO EXISTING PIPING AND UNDERGROUND MANHOLES.

1. USE COMMERCIALLY MANUFACTURED WYE FITTINGS FOR PIPING BRANCH CONNECTIONS. REMOVE SECTION OF EXISTING PIPE; INSTALL WYE FITTING INTO EXISTING PIPING; AND ENCASE ENTIRE WYE FITTING, PLUS 6-INCH OVERLAP, WITH NOT LESS THAN 6 INCHES OF CONCRETE WITH 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI. 2. MAKE BRANCH CONNECTIONS FROM SIDE INTO EXISTING PIPING, NPS 4 TO NPS 20. REMOVE SECTION OF EXISTING PIPE, INSTALL WYE FITTING INTO EXISTING PIPING, AND ENCASE ENTIRE WYE WITH NOT LESS THAN 6

INCHES OF CONCRETE WITH 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI. 3. MAKE BRANCH CONNECTIONS FROM SIDE INTO EXISTING PIPING, NPS 21 OR LARGER, OR TO UNDERGROUND MANHOLES AND STRUCTURES BY CUTTING INTO EXISTING UNIT AND CREATING AN OPENING LARGE ENOUGH TO ALLOW 3 INCHES OF CONCRETE TO BE PACKED AROUND ENTERING CONNECTION. CUT END OF CONNECTION PIPE PASSING THROUGH PIPE OR STRUCTURE WALL TO CONFORM TO SHAPE OF AND BE FLUSH WITH INSIDE WALL UNLESS OTHERWISE INDICATED. ON OUTSIDE OF PIPE, MANHOLE, OR STRUCTURE WALL, ENCASE ENTERING CONNECTION IN 6 INCHES OF CONCRETE FOR MINIMUM LENGTH OF 12 INCHES TO PROVIDE

a. USE CONCRETE THAT WILL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE INDICATED. b. USE EPOXY-BONDING COMPOUND AS INTERFACE BETWEEN NEW AND EXISTING CONCRETE AND PIPING

4. PROTECT EXISTING PIPING, MANHOLES, AND STRUCTURES TO PREVENT CONCRETE OR DEBRIS FROM ENTERING WHILE MAKING TAP CONNECTIONS. REMOVE DEBRIS OR OTHER EXTRANEOUS MATERIAL THAT MAY ACCUMULATE D. CONNECT TO SEDIMENT INTERCEPTORS SPECIFIED IN DIVISION 2 SECTION "INTERCEPTORS."

E. PIPE COUPLINGS, EXPANSION JOINTS, AND DEFLECTION FITTINGS WITH PRESSURE RATINGS AT LEAST EQUAL TO PIPING RATING MAY BE USED IN APPLICATIONS BELOW UNLESS OTHERWISE INDICATED 1. USE NON-PRESSURE-TYPE FLEXIBLE COUPLINGS WHERE REQUIRED TO JOIN GRAVITY-FLOW, NON-PRESSURE SEWER PIPING UNLESS OTHERWISE INDICATED.

a. [UNSHIELDED][SHIELDED] FLEXIBLE COUPLINGS FOR SAME OR MINOR DIFFERENCE OD PIPES.

b. UNSHIELDED, INCREASER/REDUCER-PATTERN, FLEXIBLE COUPLINGS FOR PIPES WITH DIFFERENT OD. c. RING-TYPE FLEXIBLE COUPLINGS FOR PIPING OF DIFFERENT SIZES WHERE ANNULAR SPACE BETWEEN SMALLER PIPING'S OD AND LARGER PIPING'S ID PERMITS INSTALLATION.

# 3.11 CLOSING ABANDONED STORM DRAINAGE SYSTEMS

2. USE PRESSURE-TYPE PIPE COUPLINGS FOR FORCE-MAIN JOINTS.

A. ABANDONED PIPING: CLOSE OPEN ENDS OF ABANDONED UNDERGROUND PIPING INDICATED TO REMAIN IN PLACE. INCLUDE CLOSURES STRONG ENOUGH TO WITHSTAND HYDROSTATIC AND EARTH PRESSURES THAT MAY RESULT AFTER ENDS OF ABANDONED PIPING HAVE BEEN CLOSED. USE EITHER PROCEDURE BELOW:

1. CLOSE OPEN ENDS OF PIPING WITH AT LEAST [8-INCH] THICK, BRICK MASONRY BULKHEADS. 2. CLOSE OPEN ENDS OF PIPING WITH THREADED METAL CAPS, PLASTIC PLUGS, OR OTHER ACCEPTABLE METHODS SUITABLE FOR SIZE AND TYPE OF MATERIAL BEING CLOSED. DO NOT USE WOOD PLUGS

B. ABANDONED MANHOLES AND STRUCTURES: EXCAVATE AROUND MANHOLES AND STRUCTURES AS REQUIRED AND USE ONE PROCEDURE BELOW: 1. REMOVE MANHOLE OR STRUCTURE AND CLOSE OPEN ENDS OF REMAINING PIPING 2. REMOVE TOP OF MANHOLE OR STRUCTURE DOWN TO AT LEAST [36 INCHES] BELOW FINAL GRADE. FILL TO WITHIN [12 INCHES] OF TOP WITH STONE, RUBBLE, GRAVEL, OR COMPACTED DIRT. FILL TO TOP WITH CONCRETE.

C. BACKFILL TO GRADE ACCORDING TO DIVISION 2 SECTION "EARTHWORK." A. MATERIALS AND THEIR INSTALLATION ARE SPECIFIED IN DIVISION 2 SECTION "EARTHWORK." ARRANGE FOR

INSTALLATION OF GREEN WARNING TAPE DIRECTLY OVER PIPING AND AT OUTSIDE EDGE OF UNDERGROUND

1. USE [WARNING TAPE OR] DETECTABLE WARNING TAPE OVER FERROUS PIPING. 2. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING AND OVER EDGES OF UNDERGROUND STRUCTURES.

# 3.13 FIELD QUALITY CONTROL

A. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT AFTER APPROXIMATELY 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AT COMPLETION OF PROJECT. 1. SUBMIT SEPARATE REPORTS FOR EACH SYSTEM INSPECTION. 2. 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. EXFILTRATION: WATER LEAKAGE FROM OR AROUND PIPING.

3. REPLACE DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTIONS UNTIL DEFECTS ARE WITHIN ALLOWANCES SPECIFIED 4. RE-INSPECT 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 SEPARATE REPORT FOR EACH TEST. 5. GRAVITY-FLOW STORM DRAINAGE PIPING: TEST ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING

JURISDICTION, UNI-B-6, AND THE FOLLOWING: a. EXCEPTION: PIPING WITH SOIL TIGHT JOINTS UNLESS REQUIRED BY AUTHORITIES HAVING JURISDICTION. b. OPTION: TEST CONCRETE PIPING ACCORDING TO ASTM C 924. C. REPLACE LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES

# SANITARY SEWER

SPECIFIED.

A. SUPPLY ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO INSTALL AND TEST ALL PIPING AND APPURTENANCES AS SPECIFIED. B. WORK SHALL INCLUDE BUT NOT BE LIMITED TO ALL EXCAVATION, BACKFILLING, SHEETING, SLOPE PROTECTION, DRAINAGE, CONCRETE WORK, RIP-RAP, GRADING, AND ALL OTHER WORK NECESSARY TO COMPLETE THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE PIPE.

A. THE PIPE AND FITTINGS SHALL BE DESIGNED, CONSTRUCTED, AND INSTALLED IN ACCORDANCE WITH THESE SPECIFICATIONS AS APPLICABLE.

# SANITARY (CONT'D)

1.3 SUBMITTALS AND TESTING A. IF REQUIRED, THE CONTRACTOR SHALL SUBMIT TO THE OWNER A LIST OF MATERIALS TO BE FURNISHED PRIOR TO THE START OF CONSTRUCTION.

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# B. SUBMIT SHOP DRAWINGS TO THE OWNER, IF REQUIRED.

A. ALL PIPE AND FITTINGS TO BE INSTALLED UNDER THIS CONTRACT MAY BE INSPECTED BY THE OWNER AT THE SITE

OF MANUFACTURE FOR COMPLIANCE WITH THESE SPECIFICATIONS. 1.5 CONNECTION TO WORK BY OTHERS OR EXISTING LINES A, FOR EXISTING LINES OR LINES INSTALLED UNDER OTHER CONTRACTS, TO WHICH PIPING OF THIS CONTRACT MUST

CONNECT, THE CONTRACTOR SHALL EXPOSE BURIED LINES TO CONFIRM OR DETERMINE END CONNECTION

DETAILS, PIPE MATERIAL AND DIAMETER, FURNISH AND INSTALL APPROPRIATE PIPING, AND MAKE PROPER

# CONNECTIONS

PART 1 - PRODUCTS

# 2.1 DUCTILE IRON PIPE AND FITTINGS

A. DUCTILE IRON PIPE SHALL MEET THE FOLLOWING REQUIREMENTS AND BE AS SPECIFIED HEREINAFTER: B. ALL DUCTILE IRON PIPE USED FOR BELOW-GRADE SERVICE IN THE PROJECT SHALL HAVE PUSH-ON JOINTS AND SHALL MEET THE REQUIREMENTS OF ANSI A21.11 OR AWWA C111, LATEST REVISIONS. DUCTILE IRON PIPE USED IN THE PROJECT FOR ABOVE-GROUND SERVICE OR IN BELOWGROUND VAULTS SHALL HAVE FLANGED JOINTS CONFORMING TO THE REQUIREMENTS OF ANSI A21.15, LATEST REVISION.

C. ALL DUCTILE IRON JOINTS USED IN THE PROJECT, UNLESS OTHERWISE NOTED, SHALL BE PUSH-ON OR AS SPECIFIED AND SHALL MEET THE REQUIREMENTS OF ANSI SPECIFICATIONS A 21.11 OR AWWA C111, LATEST REVISIONS.

#### SHALL CONFORM TO ANSI A21.11. BOLTS SHALL BE LOW ALLOY, HIGH STRENGTH EQUAL TO "ACIPOLLY", "USALLOY", OR "CORTEN" BOLTS.

SHALL CONFORM TO ANSI A21.10 OR A21.11 AND SHALL HAVE FLANGES FACED AND DRILLED IN CONFORMANCE WITH ANSI STANDARD A21.15. JOINTS SHALL BE INSTALLED WITH FULL RING RUBBER GASKET. BOLTS SHALL BE LOW ALLOY,

FITTINGS SHALL BE DUCTILE IRON COMPACT FITTINGS CONFORMING TO ANSI A21.53. THE RUBBER GASKET JOINTS

# HIGH STRENGTH EQUAL TO "ACIPOLLY", "USALLOY", OR "CORTEN" BOLTS.

2.2 OTHER PIPE MATERIA A. OTHER PIPE MATERIALS FOR 10" INTERCEPTORS AND LARGER MAY ONLY BE CONSIDERED AND APPROVED AFTER EVALUATION FOR COMPLIANCE WITH SPECIFICATIONS USED BY LOCAL JURISDICTION FOR PIPE INSTALLATION

# PART 3 - EXECUTION

A. CARE SHALL BE TAKEN IN LOADING, TRANSPORTING, AND UNLOADING TO PREVENT INJURY TO THE PIPE OR COATINGS. PIPE OR FITTINGS SHALL NOT BE DROPPED. ALL PIPE OR FITTINGS SHALL BE EXAMINED BEFORE LAYING, AND NO PIECE SHALL BE INSTALLED WHICH IS FOUND TO BE DEFECTIVE. ANY DAMAGE TO THE PIPE COATINGS

SHALL BE REPAIRED AS DIRECTED BY THE OWNER. B. PIPE AND FITTINGS SHALL BE SUBJECTED TO A CAREFUL INSPECTION JUST PRIOR TO BEING LAID OR INSTALLED. IF ANY DEFECTIVE PIPE IS DISCOVERED AFTER IT HAS BEEN LAID, IT SHALL BE REMOVED AND REPLACED WITH A SOUND PIPE IN A SATISFACTORY MANNER AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED BEFORE LAYING, SHALL BE KEPT CLEAN UNTIL THEY ARE USED IN THE WORK, AND WHEN INSTALLED OR LAID SHALL CONFORM TO THE LINES AND GRADES REQUIRED.

UNLESS SPECIFICALLY INDICATED OTHERWISE, UNDERGROUND PIPING SHALL SLOPE UNIFORMLY BETWEEN JOINTS. D. CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN CONSTRUCTING PIPING TO PROTECT ALL EXISTING UNDERGROUND UTILITIES AND ALL EXISTING STRUCTURES FROM DAMAGE.

A. PIPE AND FITTINGS SHALL BE INSTALLED USING BEDDING, AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH REQUIREMENTS OF AWWA STANDARD SPECIFICATIONS, EXCEPT AS OTHERWISE PROVIDED HEREIN, A FIRM EVEN BEARING THROUGHOUT THE LENGTH OF THE PIPE SHALL BE CONSTRUCTED BY PLACING AND TAMPING GRANULAR BEDDING MATERIAL AT THE SIDES OF THE PIPE UP TO THE SPRINGLINE. BLOCKING WILL NOT BE PERMITTED. BELL

HOLES SHALL BE HAND EXCAVATED TO INSURE UNIFORM BEARING ALONG THE PIPE BARREL B. ALL PIPES SHALL BE SOUND AND CLEAN BEFORE INSTALLING. WHEN INSTALLING IS NOT IN PROGRESS, INCLUDING LUNCHTIME, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY WATERTIGHT PLUG OR OTHER APPROVED MEANS. GOOD ALIGNMENT SHALL BE PRESERVED IN LAYING. THE DEFLECTION AT JOINTS SHALL NOT EXCEED THAT RECOMMENDED BY MANUFACTURER.

C. WHEN CUTTING PIPE IS REQUIRED, THE CUTTING SHALL BE DONE BY MACHINE, LEAVING A SMOOTH CUT AT RIGHT

ANGLES TO THE AXIS OF THE PIPE. CUT ENDS OF PIPE TO BE USED WITH A BELL SHALL BE BEVELED TO CONFORM TO THE MANUFACTURED SPIGOT END. LINING SHALL BE UNDAMAGED. D. PUSH-ON JOINTS SHALL BE MADE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PIPE SHALL BE LAID WITH BELL ENDS LOOKING AHEAD. A RUBBER GASKET SHALL BE INSERTED IN THE GROOVE OF THE BELL END OF THE PIPE, AND THE JOINT SURFACES CLEANED AND LUBRICATED. THE PLAIN END OF THE PIPE IS TO BE ALIGNED WITH THE BELL OF THE PIPE TO WHICH IT IS TO BE JOINED, AND PUSHED HOME WITH A JACK OR BY OTHER

MEANS. AFTER JOINING THE PIPE, A METAL FEELER SHALL BE USED TO MAKE CERTAIN THAT THE RUBBER GASKET IS CORRECTLY LOCATED. E. JOINTS AT FITTINGS, AND WHERE DESIGNATED ON THE DRAWINGS AND/OR AS SPECIFIED, SHALL BE IN ACCORDANCE WITH THE "NOTES ON METHOD OF INSTALLATION" UNDER ANSI SPECIFICATION A21.11 AND THE INSTRUCTIONS OF THE MANUFACTURER. TO ASSEMBLE THE JOINTS IN THE FIELD, THOROUGHLY CLEAN THE JOINT

SURFACES AND RUBBER GASKET WITH SOAPY WATER BEFORE ASSEMBLY. F. UNLESS OTHERWISE NOTED, UNDERGROUND PIPING SHALL BE PUSH-ON. G. ALL FITTINGS AND OTHER APPURTENANCES NEEDED UPON THE PIPELINES SHALL BE SET AND JOINTED AS

H. THE CONTRACTOR SHALL ARRANGE, IF REQUESTED, FOR THE PIPE MANUFACTURER TO FURNISH INFORMATION AND SUPERVISE THE INSTALLATION OF AT LEAST THE FIRST FIVE PUSH-ON JOINTS. I. THE CONTRACTOR SHALL CAREFULLY REGULATE HIS EQUIPMENT AND CONSTRUCTION OPERATIONS SUCH THAT THE LOADING OF THE PIPE DOES NOT EXCEED THE LOADS FOR WHICH THE PIPE IS DESIGNED AND MANUFACTURED. ANY PIPE DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE DRAWINGS. IF THE METHOD OF SUPPORT IS NOT INDICATED ON THE DRAWINGS, PIPING SHALL BE SUPPORTED AS DIRECTED BY THE DESIGN CONSULTANT. K. THE PROPER NUMBER OF GASKETS AND ALL NECESSARY JOINT MATERIALS, PLUS ONE EXTRA GASKET FOR EVERY 50 JOINTS OR FRACTION THEREOF, SHALL BE FURNISHED WITH THE PIPE AND FITTINGS.

J. ALL PIPING SHALL BE PROPERLY AND ADEQUATELY SUPPORTED. SUPPORTS SHALL BE PROVIDED AS INDICATED ON

## L. PIPE EMBEDMENT SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS. BEDDING AND BACKFILL FOR PIPE SHALL BE AS SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWINGS.

ABOVE AND ADJACENT TO THE CONDUIT. COMPLIANCE WITH SECTION 410.060.02 IS REQUIRED.

INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE MANUFACTURER.

A. UNLESS OTHERWISE INDICATED, BEDDING FOR ALL SEWER PIPES SHALL BE CLASS B. CLASS B BEDDING SHALL BE DEFINED AS THAT METHOD OF BEDDING TRENCH CONDUITS IN WHICH THE CONDUIT IS SET IN THOROUGHLY TAMPED, COMPACTED, GRANULAR MATERIALS PLACED TO THE TRENCH WIDTH B AND UP TO THE CENTERLINE OF THE CONDUIT. THE REMAINDER OF THE CONDUIT IS ENTIRELY SURROUNDED TO A HEIGHT OF AT LEAST ONE FOOT ABOVE ITS TOP BY DENSELY COMPACTED BACKFILL CAREFULLY PLACED BY HAND TO COMPLETELY FILL ALL SPACES

AT THE CONCLUSION OF THE WORK AND PRIOR TO PRESSURE TESTING, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE NEW PIPELINE BY FLUSHING WITH WATER OR OTHER MEANS TO REMOVE ALL DIRT, STONES, AND PIECES OF WOOD OR OTHER MATERIAL THAT MAY HAVE ENTERED DURING THE CONSTRUCTION PERIOD. THE FLUSHING WATER AND DEBRIS WILL BE TRAPPED AT THE LAST DOWNSTREAM MANHOLE AND REMOVED FROM THE SYSTEM. IF,

# AFTER THIS CLEARING, OBSTRUCTIONS REMAIN, THEY SHALL BE REMOVED.

# PART 1 - GENERAL

1.1 SCOPE OF WORK A. SUPPLY ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO INSTALL AND TEST ALL WATER SUPPLY PIPING AND APPURTENANCES AS SPECIFIED. B. WORK SHALL INCLUDE BUT NOT BE LIMITED TO ALL EXCAVATION, BACKFILLING, SHEETING, SLOPE PROTECTION,

# DRAINAGE, CONCRETE WORK, RIP-RAP, GRADING, AND ALL OTHER WORK NECESSARY TO COMPLETE THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE PIPE.

A. THE PIPE AND FITTINGS SHALL BE DESIGNED, CONSTRUCTED, AND INSTALLED IN ACCORDANCE WITH THESE SPECIFICATIONS AS APPLICABLE. 1.3 SUBMITTALS AND TESTING

#### A. THE CONTRACTOR SHALL SUBMIT TO THE OWNER A LIST OF MATERIALS TO BE FURNISHED PRIOR TO START OF CONSTRUCTION B. SUBMIT SHOP DRAWINGS TO THE OWNER.

A. ALL PIPE AND FITTINGS INSTALLED UNDER THIS CONTRACT MAY BE INSPECTED BY THE OWNER AT THE SITE OF MANUFACTURE FOR COMPLIANCE WITH THESE SPECIFICATIONS.

# 1.5 CONNECTION TO WORK BY OTHERS OR EXISTING LINES

A. FOR EXISTING LINES OR LINES INSTALLED UNDER OTHER CONTRACTS TO WHICH PIPING OF THIS CONTRACT MUST CONNECT, THE CONTRACTOR SHALL EXPOSE BURIED LINES TO CONFIRM OR DETERMINE END CONNECTION DETAILS, PIPE MATERIAL AND DIAMETER, AND FURNISH AND INSTALL APPROPRIATE PIPING, AND MAKE PROPER CONNECTIONS.

B. ALL PIPE AND APPURTENANCES SHALL BE OF THE SIZE SHOWN ON THE DRAWINGS AND ALL EQUIPMENT OF THE

THE SERVICE INTENDED IN ACCORDANCE WITH AWWA OR ASTM STANDARD SPECIFICATIONS

# PART 2 - PRODUCTS

# A. ALL MATERIALS SHALL BE OF STANDARD MANUFACTURED DESIGN THAT THE MANUFACTURER RECOMMENDS FOR

C. PIPE MATERIALS SHALL BE AS FOLLOWS: 1. MAINS (PUBLIC) 4" AND LARGER, DUCTILE IRON 2. MAINS (PRIVATE) 6" AND LARGER, DUCTILE IRON 3. SERVICE LINES, 3/4" AND LARGER, COPPER

SAME TYPE SHALL BE FROM ONE MANUFACTURER.

WATER (CONT'D)

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# 2.2 DUCTILE IRON PIPE AND FITTINGS

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A. DUCTILE IRON PIPE SHALL MEET THE FOLLOWING REQUIREMENTS AND BE AS SPECIFIED HEREINAFTER: B. DUCTILE IRON PIPE SHALL BE OF THE CENTRIFUGALLY CAST TYPE. EITHER IN METAL OR CAST MOLDS. AND SHALL CONFORM TO ANSI A21.51 OR AWWA C151. DUCTILE IRON SHALL HAVE A MINIMUM TENSILE STRENGTH OF 60.000 PSI WITH A MINIMUM YIELD STRENGTH OF 42,000 PSI, PRESSURE RATED AT A MINIMUM OF 350 PSI AND HAVE A MINIMAL WALL THICKNESS OF 1/4" UNLESS FIELD CONDITIONS DETERMINE THAT A HEAVIER WALL THICKNESS IS REQUIRED. THE PRESSURE RATING AND MANUFACTURE DATE SHALL BE SHOWN ON EACH PIECE. ALL PIPES SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY GLANDS, JOINT MATERIALS INCLUDING RUBBER GASKET LUBRICANT, BOLTS, NUTS, ETC, PIPE FURNISHED SHALL BE MANUFACTURED BY U.S. PIPE AND FOUNDRY; AMERICAN CAST IRON PIPE; OR EQUAL IN INDUSTRY STANDARD LENGTHS.

C. ALL DUCTILE IRON JOINTS USED, UNLESS OTHERWISE NOTED, SHALL BE PUSH-ON JOINT OR AS SPECIFIED AND SHALL MEET THE REQUIREMENTS OF ANSI SPECIFICATIONS A 21.11 OR AWWA C111, LATEST REVISIONS.

D. ALL DUCTILE IRON PIPEFITTINGS SHALL BE OF DUCTILE IRON OR CAST IRON AND SHALL BE OF A STANDARD DESIGN FOR USE WITH THE PIPE PURCHASED UNDER THESE SPECIFICATIONS. FITTINGS SHALL CONFORM TO THE FOLLOWING APPLICABLE SPECIFICATION:

E. MECHANICAL JOINT FITTINGS: FITTINGS WITH RUBBER GASKET JOINTS SHALL CONFORM TO ANSI SPECIFICATION A

SHALL BE LOW ALLOYS, HIGH STRENGTH, EQUAL TO "ACIPALLY", "USALLOY", OR "CORTEN" BOLTS. F. THE PROPER NUMBER OF GASKETS, BOLTS, AND ALL NECESSARY JOINT MATERIALS, PLUS ONE EXTRA GASKET FOR EVERY 50 JOINTS OR FRACTION THEREOF, SHALL BE FURNISHED WITH THE PIPE FITTINGS. G. PIPE AND FITTINGS SHALL HAVE A CEMENT MORTAR LINING AND A BITUMINOUS SEAL COAT ON THE INSIDE IN

ACCORDANCE WITH ANSI A21.4 AND BE COATED ON THE EXTERIOR WITH A 1.0 MILS THICK BITUMINOUS COAT IN

ACCORDANCE WITH ANSI A21.51. A CERAMIC COATING SHALL BE SUBSTITUTED FOR THE CEMENT MORTAR LINING

WHERE SHOWN ON THE DRAWINGS H. WHERE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE A POLYETHYLENE ENCASEMENT OVER PIPE, FITTINGS, AND VALVES. THE MATERIAL, INSTALLATION, AND WORKMANSHIP SHALL CONFORM TO APPLICABLE SECTIONS OF ANSI STANDARD A21.5. INSTALLATION SHALL BE EMPLOYED USING FLAT TUBE POLYETHYLENE.

#### 2.3 COPPER PIPE A. ALL COPPER PIPES SHALL CONFORM TO FEDERAL SPECIFICATIONS WW-T-799, TYPE "K" AS A MINIMUM WITH PLAIN

ENDS AND LENGTHS STANDARDIZED AT 12 FEET.

### A. ALL COPPER TUBING SHALL CONFORM TO ASTM DESIGNATION B88 FOR THE TYPE "K" SOFT TEMPER AND AWWA 7S-CR TYPE "K" AND MAY BE USED IN 20-FOOT STRAIGHT LENGTHS OR 60/100-FOOT COILS.

A. ALL VALVES 3" TO 16" IN DIAMETER SHALL BE GATE VALVES CONFORMING TO THE REQUIREMENTS OF AWWA SPECIFICATION C-509, SIZES SMALLER THAN THREE INCHES SHALL MEET FEDERAL SPECIFICATION WW-V-54, CLASS "A", RATED FOR 200 PSI WORKING PRESSURE. GATE VALVES SHALL BE AS MANUFACTURED BY DRESSER, MUELLER, DARLING, CLOW CORPORATION, KENNEDY, WALWORTH, OR SIMILAR APPROVED EQUAL

A. ALL VALVES 16" AND LARGER SHALL BE BUTTERFLY VALVES OF THE TIGHT CLOSING, RUBBER-SEAT TYPE AND SHALL CONFORM TO THE REQUIREMENTS OF AWWA SPECIFICATION C-504 FOR CLASS 150 B AND AS FURTHER SPECIFIED HEREIN. THE BUTTERFLY VALVES SHALL BE OF THE RUBBER-SEAT TYPES THAT ARE SECURELY FASTENED TO THE VALVE BODY. NO METAL-TO-METAL SEATING SURFACES SHALL BE PERMITTED. VALVES SHALL BE BUBBLE-LIGHT AT RATED PRESSURES WITH FLOW IN EITHER DIRECTION, AND SHALL BE SATISFACTORY FOR APPLICATIONS INVOLVING THROTTLING SERVICE AND/OR FREQUENT OPERATION AND FOR APPLICATIONS INVOLVING VALVE OPERATION AFTER LONG PERIODS OF INACTIVITY. BUTTERFLY VALVES SHALL BE AS MANUFACTURED BY BIF INDUSTRIES, HENRY PRATT COMPANY, DRESSER, OR SIMILAR APPROVED EQUAL.

#### 2.7 AIR/VACUUM RELEASE VALVES A. THE VALVES SHALL HAVE A CAST IRON BODY, COVER AND BAFFLE, STAINLESS STEEL FLOAT, BRONZE WATER

APCO VALVE AND PRIMER CORPORATION, OR EQUAL. A. CORPORATION STOPS SHALL BE ALL BRASS OR BRONZE SUITABLE FOR 200 PSI OPERATING PRESSURE AND SIMILAR

DIFFUSER, AND BUNA-N SEAT WITH THREADED FITTINGS. THE VALVES SHALL BE MANUFACTURED BY GA INDUSTRIES,

# 2.9 VALVE BOXES, VALVE ASSEMBLIES, VALVE PADS

TO MUELLER CO. H-15000 OR HAYS 5200.

TURN COUNTER CLOCKWISE TO OPEN.

H FIG. #74-M, MUELLER #H-615, OR APPROVED EQUAL.

A. VALVE BOXES SHALL BE CAST IRON TWO OR THREE PIECE WITH CAST IRON COVERS. THE BARREL SHALL BE ONE OR TWO-PIECE, SCREW TYPE, HAVING 51/4" SHAFT. COVERS SHALL HAVE "WATER" CAST INTO THE TOP. VALVE STEM EXTENSIONS SHALL BE PROVIDED AND INSTALLED FOR ALL VALVES WHERE THE OPERATING NUT IS 5 FEET OR DEEPER. WHERE DIRECTED, VALVE ASSEMBLIES SHALL INCLUDE FULLY ADJUSTABLE VALVE BOX AND EXTENSION STEM COMBINATIONS EQUAL TO AMERICAN FLOW CONTROL "TRENCH ADAPTER". CONCRETE VALVE PADS/COLLARS ARE REQUIRED FOR ALL VALVE BOXES NOT IN A PAVED AREA, CONCRETE VALVE MARKERS SHALL BE FURNISHED AND INSTALLED ON EXISTING ROADS WHERE DIRECTED BY COUNTY.

2.10 FLEXIBLE (TRANSITION) COUPLINGS A. FLEXIBLE COUPLINGS SHALL BE CATALOG NO. 441 AS MANUFACTURED BY SMITH-BLAIR, STYLE NO. 38, AS MANUFACTURED BY DRESSER MANUFACTURING COMPANY OR EQUAL.

A. FIRE HYDRANTS SHALL CONFORM TO AWWA C502-85 FOR DRY-BARREL FIRE HYDRANTS. HYDRANTS SHALL BE TRAFFIC TYPES WITH SAFETY FLANGE, WHICH ALLOWS THE VALVE TO REMAIN CLOSED WHEN THE HYDRANT IS BROKEN OR DAMAGED ABOVE OR NEAR GRADE LEVEL. THE DESIGN OF HYDRANT SHALL BE OF THE COMPRESSION TYPE WITH MAIN VALVES AND "O" RING SEAL BETWEEN THE OPERATING NUT AND THE BONNET. HYDRANT COLOR

SHALL BE SILVER. B. HYDRANT INLET SHALL BE 6", MECHANICAL JOINT WITH HARNESSING LUGS. HYDRANT MAIN VALVE OPENING SHALL BE 51/4". VALVE SEATS SHALL BE BRONZE TO BRONZE. C. OPERATING NUT SHALL BE SOLID PENTAGON, 11/2" MEASURED FLAT AT POINT (31/32 ON SIDE). OPERATING NUT SHALL

D. HYDRANT SHALL HAVE TWO 2½" DIAMETERS AND ONE 4½" DIAMETER NOZZLES. NOZZLE THREADS SHALL BE THE

# STANDARD ADOPTED BY NFPA. NOZZLES SHALL ALL HAVE GASKET CAPS FITTED WITH CHAIN. E. MATERIALS SHALL CONFORM TO AWWA STANDARD C-502, LATEST REVISION.

## A. CURB STOPS SHALL BE OF BRONZE CONSTRUCTION WITH TEE HANDLE OPERATOR. CURB STOPS SHALL BE HAYS 5060 OR APPROVED EQUAL 2.13 TAPPING SLEEVES

TAPPING SLEEVES SHALL BE CLASS 250 PIPE FOR 200 PSI COLD WATER WORKING PRESSURE. SLEEVES SHALL BE M &

COPPER FEMALE IRON PIPE ADAPTERS SHALL BE HAYS 5600 CF OR APPROVED EQUAL IN MUELLER. COPPER BY

# DOUBLE STRAP SADDLES: SADDLES SHALL BE EITHER SMITH BLAIR 313 DOUBLE STRAP OR SUPERIOR STYLE 32.

## COPPER UNIONS SHALL BE HAYS 5615 CF OR APPROVED EQUAL IN MUELLER. COPPER BY MALE IRON PIPE ADAPTERS SHALL BE HAYS 5605 OR EQUAL IN MUELLER.

2.15 ADAPTERS AND UNIONS

A. CARE SHALL BE TAKEN IN LOADING, TRANSPORTING, AND UNLOADING TO PREVENT INJURY TO THE PIPE OR COATINGS. PIPE OR FITTINGS SHALL NOT BE DROPPED. ALL PIPE OR FITTINGS SHALL BE EXAMINED BEFORE LAYING, AND NO PIECE SHALL BE INSTALLED WHICH IS FOUND TO BE DEFECTIVE. ANY DAMAGE TO THE PIPE COATINGS SHALL BE REPAIRED AS DIRECTED BY THE OWNER

B. PIPE AND FITTINGS SHALL BE SUBJECTED TO A CAREFUL INSPECTION JUST PRIOR TO BEING LAID OR INSTALLED. IF

ANY DEFECTIVE PIPE IS DISCOVERED AFTER IT HAS BEEN LAID, IT SHALL BE REMOVED AND REPLACED WITH A

SOUND PIPE IN A SATISFACTORY MANNER AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED BEFORE LAYING, SHALL BE KEPT CLEAN UNTIL THEY ARE USED IN THE WORK, AND WHEN INSTALLED OR LAID, SHALL CONFORM TO THE LINES AND GRADES REQUIRED. C. UNLESS SPECIFICALLY INDICATED OTHERWISE, UNDERGROUND PIPING SHALL SLOPE UNIFORMLY BETWEEN JOINTS.

## D. WHEN CONSTRUCTING PIPING, CONTRACTOR SHALL EXERCISE EXTREME CARE TO PROTECT ALL EXISTING UNDERGROUND UTILITIES, AND ALL EXISTING STRUCTURES FROM DAMAGE.

RECOMMENDED BY MANUFACTURER.

A. PIPE AND FITTINGS SHALL BE INSTALLED USING BEDDING, AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH REQUIREMENTS OF AWWA STANDARD SPECIFICATIONS EXCEPT AS OTHERWISE PROVIDED HEREIN. A FIRM, EVEN BEARING THROUGHOUT THE LENGTH OF THE PIPE SHALL BE CONSTRUCTED BY TAMPING SELECTED MATERIAL AT THE SIDES OF THE PIPE UP TO THE SPRINGLINE. BLOCKING SUPPORTS WILL NOT BE PERMITTED. BELL HOLES SHALL

BE HAND EXCAVATED TO INSURE UNIFORM BEARING ALONG THE PIPE BARREL. B. ALL PIPES SHALL BE SOUND AND CLEAN BEFORE LAYING. WHEN LAYING IS NOT IN PROGRESS, INCLUDING LUNCHTIME, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY WATERTIGHT PLUG OR OTHER APPROVED MEANS. GOOD ALIGNMENT SHALL BE PRESERVED IN LAYING. THE DEFLECTION AT JOINTS SHALL NOT EXCEED THAT

C. WHEN CUTTING PIPE IS REQUIRED, THE CUTTING SHALL BE DONE BY MACHINE, LEAVING A SMOOTH CUT AT RIGHT ANGLES TO THE AXIS OF THE PIPE. CUT ENDS OF PIPE TO BE USED WITH A BELL SHALL BE BEVELED TO CONFORM TO THE MANUFACTURED SPIGOT END. LINING SHALL BE UNDAMAGED. D. PUSH-ON JOINTS SHALL BE MADE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PIPE SHALL BE LAID WITH BELL ENDS LOOKING AHEAD. A RUBBER GASKET SHALL BE INSERTED IN THE GROOVE OF THE BELL END OF THE PIPE, AND THE JOINT SURFACES CLEANED AND LUBRICATED. THE PLAIN END OF THE PIPE IS TO BE

ALIGNED WITH THE BELL OF THE PIPE TO WHICH IT IS TO BE JOINED, AND PUSHED HOME WITH A JACK OR BY OTHER MEANS. AFTER JOINING THE PIPE, A METAL FEELER SHALL BE USED TO MAKE CERTAIN THAT THE RUBBER GASKET IS CORRECTLY LOCATED. E. JOINTS AT FITTINGS, AND WHERE DESIGNATED ON THE DRAWINGS AND/OR AS SPECIFIED, SHALL BE IN ACCORDANCE WITH THE "NOTES ON METHOD OF INSTALLATION" UNDER ANSI SPECIFICATION A21.11 AND THE INSTRUCTIONS OF THE MANUFACTURER. TO ASSEMBLE THE JOINTS IN THE FIELD, THOROUGHLY CLEAN THE JOINT

SURFACES AND RUBBER GASKET WITH SOAPY WATER BEFORE ASSEMBLY. F. UNLESS OTHERWISE NOTED, UNDERGROUND DUCTILE IRON PIPING SHALL BE PUSH-ON WITH MECHANICAL JOINT FITTINGS, VALVES, FIRE HYDRANTS, ETC. G. ALL FITTINGS AND OTHER APPURTENANCES NEEDED UPON THE PIPELINES SHALL BE SET AND JOINTED AS

H. THE CONTRACTOR SHALL ARRANGE, IF REQUESTED, FOR THE PIPE MANUFACTURER TO FURNISH INFORMATION AND SUPERVISE THE INSTALLATION OF AT LEAST THE FIRST FIVE PUSH-ON JOINTS. I. THE CONTRACTOR SHALL CAREFULLY REGULATE HIS EQUIPMENT AND CONSTRUCTION OPERATIONS SUCH THAT THE LOADING OF THE PIPE DOES NOT EXCEED THE LOADS FOR WHICH THE PIPE IS DESIGNED AND MANUFACTURED.

ANY PIPE DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE MANUFACTURER.

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# PEACHTREE CORNERS, GA 30092

# CHAMPION'S RUN - PHASE 2 RNC SKETCH PLAT

A MASTER PLANNED RESIDENTIAL DEVELOPMENT

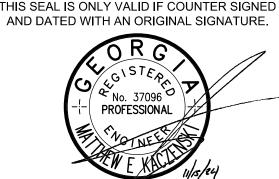
8682 PLEASANT HILL RD

LITHONIA, GA 30058

AP # 1246254

# **REVISIONS**

NO. | DATE | BY | DESCRIPTION 6-17-22 CAH 1ST SKETCH PLAT SUBMITTAL 12-21-22 CAH 2ND SKETCH PLAT SUBMITT. -3 07-10-23 CAH 3RD SKETCH PLAT SUBMITTAL 04-26-24 | CAH | 4TH SKETCH PLAT SUBMITTAL 11-15-24 | CAH | 5TH SKETCH PLAT SUBMITTAL



# STANDARD **SPECIFICATIONS**

GSWCC LEVEL II DESIGN PROFESSIONAL

CERTIFICATION # 0000066476 EXP. 06/27/2027

11/15/2024 16309.02

SHEET

FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT, AND SHALL COMPLY WITH SECTION 302. CHANGES IN

CHANGES IN LEVEL GREATER THAN ½ INCH (13 MM) IN HEIGHT SHALL BE BY A RAMP COMPLYING WITH SECTION 405 OR

OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FLOOR SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO A CIRCULATION PATH. EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4½ INCHES (115 MM) MAXIMUM.

ANSI A117.1 (2017) 307.3 POST-MOUNTED OBJECTS: OBJECTS ON POSTS OR PYLONS SHALL BE PERMITTED TO OVERHANG 4 INCHES (100 MM) MAXIMUM WHERE MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FLOOR. OBJECTS ON MULTIPLE POSTS OR PYLONS WHERE THE CLEAR DISTANCE BETWEEN POSTS OR PYLONS IS GREATER THAN 12 INCHES (305 MM) SHALL HAVE THE LOWEST EDGE OF SUCH OBJECT EITHER 27 INCHES (685 MM) MAXIMUM OR 80 INCHES (2030 MM) MINIMUM ABOVE THE FLOOR. EXCEPTION: SLOPING PORTIONS OF HANDRAILS BETWEEN THE TOP AND BOTTOM RISER OF STAIRS AND ABOVE THE RAMP RUN SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.

ANSI A117.1 (2017) 307.4 VERTICAL CLEARANCE VERTICAL CLEARANCE SHALL BE 80 INCHES (2030 MM) MINIMUM. RAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES (2030 MM). THE LEADING EDGE OF SUCH RAILS OR BARRIER SHALL BE LOCATED 27 INCHES (685 MM) MAXIMUM ABOVE THE FLOOR.

ANSI A117.1 (2017) 308.3.1 UNOBSTRUCTED: WHERE A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE EDGE OF THE CLEAR FLOOR SPACE IS 10 INCHES (255 MM) MAXIMUM FROM THE ELEMENT, THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE

OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 308.

ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORS AND DOORWAYS, GATES, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, BLENDED TRANSITIONS, ELEVATORS AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE PORTIONS OF THIS STANDARD

ANSI A117.1 (2017) 403.2 FLOOR SURFACE: FLOOR SURFACES SHALL COMPLY WITH SECTION 302.

THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48.

FLOOR SURFACE WITHIN THE MANEUVERING CLEARANCES SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL

ANSI A117.1 (2017) 404.2.3.2 SWINGING DOORS AND GATES: SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.3.2.

TABLE 404.2.3.2-MANUVERING CLEARANCES AT MANUAL SWINGING DOORS

<u></u>						
TYPE OF U	SE	MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS				
APPROACH DIRECTION DOOR SIDE		PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH UNLESS NOTED)			
FROM FRONT	PULL	60 INCHES	18 INCHES			
FROM FRONT	PUSH	52 INCHES <sup>4</sup>	0 INCHES <sup>3</sup>			
FROM HINGE SIDE	PULL	60 INCHES	36 INCHES			
FROM HINGE SIDE	PULL	54 INCHES	42 INCHES			
FROM HINGE SIDE	PUSH	42 INCHES <sup>1</sup>	22 INCHES <sup>3&amp;4</sup>			
FROM LATCH SIDE	PULL	48 INCHES <sup>2</sup>	24 INCHES			
FROM LATCH SIDE	PUSH	42 INCHES <sup>2</sup>	24 INCHES			

<sup>1</sup> ADD 6 INCHES (150 MM) IF CLOSER AND LATCH PROVIDED.

<sup>2</sup> ADD 6 INCHES (150 MM) IF CLOSER PROVIDED.

<sup>3</sup> BEYOND HINGE SIDE. <sup>4</sup> IN EXISTING BUILDINGS AND FACILITIES, THE DIMENSION PERPENDICULAR TO THE DOOR OR GATE FOR THE FRONT

DIRECTION ON THE PUSH SIDE SHALL BE 48 INCHES (1220 MM).

RAMP RUNS SHALL HAVE A RUNNING SLOPE GREATER THAN 1:20 AND NOT STEEPER THAN 1:12.

ANSI A117.1 (2017) 405.8 HANDRAILS:

RAMP RUNS WITH A RISE GREATER THAN 6 INCHES (150 MM) SHALL HAVE HANDRAILS COMPLYING WITH SECTION 505.

ANSI A117.1 (2017) 406.1 GENERAL:

CURB RAMPS AND BLENDED TRANSITIONS ON ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION 406.

ANSI A117.1 (2017) 502.5 FLOOR SURFACES: PARKING SPACES AND ACCESS AISLES SHALL COMPLY WITH SECTION 302 AND HAVE SURFACE SLOPES NOT STEEPER THAN 1:48. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE.

WHERE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS, THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 703.6.3.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES (1525 MM) MINIMUM ABOVE THE FLOOR OF THE PARKING SPACE, MEASURED TO THE BOTTOM OF THE SIGN.

DRAWING LEGEND

 $(\otimes)$ 

12

FFE XX.XX FINISHED FLOOR ELEVATION BFE XX.XX **BASEMENT FLOOR ELEVATION** (10.72) SPOT ELEVATION

\_\_\_\_\_10----**EXISTING CONTOURS** ----

13

PROPOSED CONTOURS

PROPOSED WATER LINE PROPOSED WATER METER

PROPOSED FIRE HYDRANT & FDC 图 4 田 PROPOSED TEE, BEND & INTERSECTION

> PROPOSED SANITARY SEWER LINE PROPOSED SANITARY MANHOLE

PROPOSED VALVE & END CAP

PROPOSED SANITARY CLEANOUT

PROPOSED STORM LINE

PROPOSED JUNCTION BOX

PROPOSED GREASE TRAP

PROPOSED DROP INLET PROPOSED YARD INLET

PROPOSED CURB INLET PROPOSED WEIR INLET

PROPOSED CATCH BASIN PROPOSED HEADWALL

PROPOSED OUTLET CONTROL STRUCTURE

TYPICAL WALL LABELS TW = TOP OF WALL

TFG = TOP FINISHED GRADE BFG = BOTTOM FINISHED GRADE TF = TOP OF FOOTING BF = BOTTOM OF FOOTING

SHEET NUMBERING STANDARDS

C0.01 - C0.99 STANDARD SPECIFICATIONS & GENERAL NOTES C1.00 - C1.49 ZONING CONDITIONS C1.50 - C1.99 PRELIMINARY PLAT & ZONING SITE PLANS DEMOLITION PLAN C2.00 - C2.99 C3.00 - C3.09 C3.10 - C3.19 DIMENSION PLAN SIGNAGE & STRIPING PLAN C3.30 - C3.39 LOT LAYOUT C3.40 - C3.49 FIRE ACCESS ADA ACCESSIBILITY PLAN C3.50 - C3.59 C3.60 - C3.99 MISCELLANEOUS SITE PLANS C4.00 - C4.19 GRADING PLAN C4.20 - C4.39 DRAINAGE PLAN STORMWATER MANAGEMENT C5.00 - C5.49 UTILITY PLAN C5.50 - C5.69 WATER PLAN C5 70 - C5 99 MISCELLANEOUS UTILITY PLANS C6.00 - C6.09 EROSION CONTROL NOTES INITIAL EROSION CONTROL C6.10 - C6.19 C6.20 - C6.29 INTERMEDIATE EROSION CONTROL C6.30 - C6.39 FINAL EROSION CONTROL EROSION CONTROL DETAILS C6.40 - C6.99 SANITARY SEWER PROFILES C7.50 - C7.99 STORM SEWER PROFILES

C9.00 - C9.99 CONSTRUCTION DETAILS NOTE: THE ABOVE TABLE SHOWS THE TYPICAL NUMBERING SCHEME FOR CONSTRUCTION PLANS AND IS NOT REPRESENTATIVE OF THE DRAWINGS INCLUDED IN THIS SET OF PLANS. REFER TO THE SHEET INDEX SHOWN ON THE COVER SHEET (C0.00) FOR THE SHEET INDEX REPRESENTATIVE OF THIS SET OF PLANS.

SIGHT DISTANCE PROFILES

ROAD PROFILES



C8.00 - C8.49

C8.50 - C8.99

TYPICAL DRAWING SET

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CHAMPION'S RUN - PHASE 2 RNC **SKETCH PLAT** 

A MASTER PLANNED RESIDENTIAL DEVELOPMENT

> 8682 PLEASANT HILL RD LITHONIA, GA 30058

AP # 1246254

REVISIONS

DATE BY DESCRIPTION -1 6-17-22 CAH 1ST SKETCH PLAT SUBMITTAL -2 12-21-22 CAH 2ND SKETCH PLAT SUBMITT. 07-10-23 | CAH | 3RD SKETCH PLAT SUBMITTAL 04-26-24 | CAH | 4TH SKETCH PLAT SUBMITTAL 11-15-24 | CAH | 5TH SKETCH PLAT SUBMITTAL

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.

No. 37096 S

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000066476 EXP. 06/27/2027

STANDARD

PROJECT:

11/15/2024

16309.02

# RESERVED FOR PLAT FILING



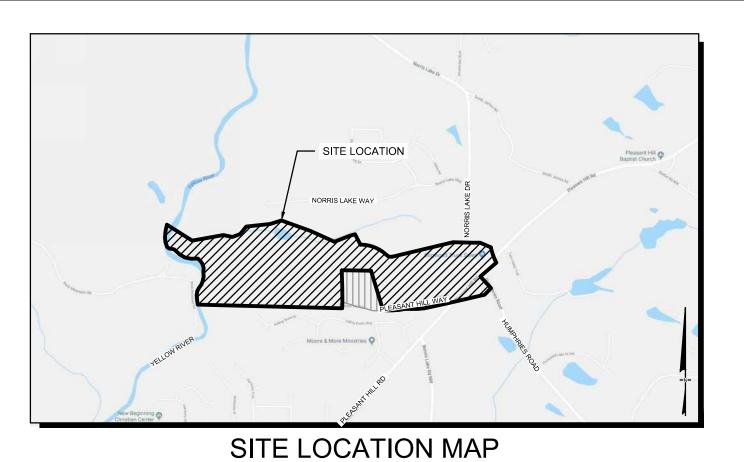
TRACT 1 LEGAL DESCRIPTION (PARCEL ID 16 229 01 182 ZONED RNC)

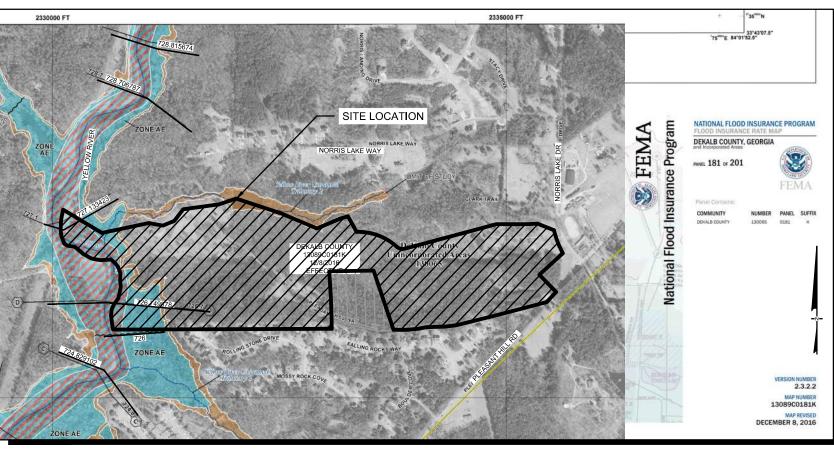
ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOTS 228, 229, 252, 253, 257 AND 258 OF THE 16<sup>TH</sup> DISTRICT DEKALB COUNTY, GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE TRUE POINT OF BEGINNING. COMMENCE FROM AN IRON PIN FOUND AT THE INTERSECTION OF THE SOUTHWESTERLY RIGHT-OF-WAY LINE OF NORRIS LAKE DRIVE (60' R/W) WITH THE NORTHWESTERLY RIGHT-OF-WAY LINE OF PLEASANT HILL ROAD (60' R/W); THENCE ALONG SAID RIGHT-OF-WAY LINE OF PLEASANT HILL WAY SOUTH 43 DEGREES 28 MINUTES 35 SECONDS WEST A DISTANCE OF 327.61 FEET TO AN IRON PIN FOUND AND THE TRUE POINT OF BEGINNING;

FROM THE TRUE POINT OF BEGINNING AS THUS ESTABLISHED; THENCE ALONG THE NORTHERN RIGHT-OF-WAY LINE OF PLEASANT HILL ROAD SOUTH 43 DEGREES 3 MINUTES 3 SECONDS WEST A DISTANCE OF 156.12 FEET TO A POINT AT THE INTERSECTION OF THE NORTHERN RIGHT-OF-WAY LINE OF PLEASANT HILL ROAD AND THE NORTHERN RIGHT-OF-WAY LINE OF PLEASANT HILL WAY (50' R/W); THENCE ALONG SAID NORTHERLY RIGHT-OF-WAY LINE OF PLEASANT HILL WAY THE FOLLOWING COURSES AND DISTANCES: THENCE SOUTH 75 DEGREES 25 MINUTES 50 SECONDS WEST A DISTANCE OF 606.01 FEET TO A POINT; THENCE SOUTH 76 DEGREES 4 MINUTES 34 SECONDS WEST A DISTANCE OF 447.46 FEET TO A POINT; THENCE SOUTH 83 DEGREES 33 MINUTES 41 SECONDS WEST A DISTANCE OF 121.33 FEET TO A POINT; THENCE SOUTH 87 DEGREES 59 MINUTES 32 SECONDS WEST A DISTANCE OF 215.09 FEET TO A POINT; THENCE SOUTH 79 DEGREES 49 MINUTES 0 SECONDS WEST A DISTANCE OF 95.31 FEET TO A POINT; THENCE SOUTH 84 DEGREES 5 MINUTES 22 SECONDS WEST A DISTANCE OF 119.53 FEET TO A POINT; THENCE SOUTH 89 DEGREES 39 MINUTES 39 SECONDS WEST A DISTANCE OF 60.23 FEET TO A POINT; THENCE NORTH 89 DEGREES 18 MINUTES 57 SECONDS WEST A DISTANCE OF 67.15 FEET TO A POINT; THENCE 31.08 FEET ALONG AN ARC OF A CURVE TO THE LEFT, (SAID CURVE HAVING A RADIUS OF 399.99 FEET AND A CHORD BEARING OF SOUTH 88 DEGREES 27 MINUTES 29 SECONDS WEST AND A CHORD DISTANCE OF 31.07 FEET) TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY 37.56 FEET ALONG AN ARC OF A CURVE TO THE LEFT, (SAID CURVE HAVING A RADIUS OF 399.99 FEET AND A CHORD BEARING OF SOUTH 83 DEGREES 32 MINUTES 31 SECONDS WEST AND A CHORD DISTANCE OF 37.54 FEET) TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY 106.80 FEET ALONG AN ARC OF A CURVE TO THE RIGHT, (SAID CURVE HAVING A RADIUS OF 988.10 FEET AND A CHORD BEARING OF SOUTH 83 DEGREES 56 MINUTES 54 SECONDS WEST AND A CHORD DISTANCE OF 106.74 FEET) TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY 26.27 FEET ALONG AN ARC OF A CURVE TO THE RIGHT, (SAID CURVE HAVING A RADIUS OF 97.04 FEET AND A CHORD BEARING OF NORTH 85 DEGREES 11 MINUTES 57 SECONDS WEST AND A CHORD DISTANCE OF 26.19 FEET) TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY LINE NORTH 77 DEGREES 26 MINUTES 34 SECONDS WEST A DISTANCE OF 37.19 FEET TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY LINE NORTH 75 DEGREES 29 MINUTES 08 SECONDS WEST A DISTANCE OF 66.16 FEET TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY 42.70 FEET ALONG AN ARC OF A CURVE TO THE LEFT, (SAID CURVE HAVING A RADIUS OF 639.92 FEET AND A CHORD BEARING OF NORTH 77 DEGREES 23 MINUTES 51 SECONDS WEST AND A CHORD DISTANCE OF 42.69 FEET) TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY LINE NORTH 79 DEGREES 18 MINUTES 33 SECONDS WEST A DISTANCE OF 94.85 FEET TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY LINE NORTH 77 DEGREES 43 MINUTES 59 SECONDS WEST A DISTANCE OF 54.01 FEET TO A POINT; THENCE ALONG SAID RIGHT—OF—WAY 51.67 FEET ALONG AN ARC OF A CURVE TO THE RIGHT, (SAID CURVE HAVING A RADIUS OF 339.03 FEET AND A CHORD BEARING OF NORTH 73 DEGREES 22 MINUTES 00 SECONDS WEST AND A CHORD DISTANCE OF 51.62 FEET) TO A POINT; THENCE ALONG SAID RIGHT—OF—WAY 131.45 FEET ALONG AN ARC OF A CURVE TO THE LEFT, (SAID CURVE HAVING A RADIUS OF 675.56 FEET AND A CHORD BEARING OF NORTH 74 DEGREES 34 MINUTES 30 SECONDS WEST AND A CHORD DISTANCE OF 131.25 FEET) TO A POINT; THENCE ALONG SAID RIGHT-OF-WAY 67.78 FEET ALONG AN ARC OF A CURVE TO THE RIGHT. (SAID CURVE HAVING A RADIUS OF 261.53 FEET AND A CHORD BEARING OF NORTH 72 DEGREES 43 MINUTES 29 SECONDS WEST AND A CHORD DISTANCE OF 67.59 FEET) TO A POINT; THENCE SOUTH O DEGREES 22 MINUTES 39 SECONDS EAST A DISTANCE OF 54.53 FEET TO A POINT; THENCE SOUTH O DEGREES 31 MINUTES 54 SECONDS EAST A DISTANCE OF 52.28 FEET TO A POINT; THENCE SOUTH 89 DEGREES 55 MINUTES 48 SECONDS WEST A DISTANCE OF 2,466.47 FEET MORE OR LESS TO A POINT IN THE CENTER OF YELLOW RIVER; THENCE ALONG SAID CENTERLINE OF YELLOW RIVER AND THE MEANDERINGS THEREOF FOR THE FOLLOWING BEARINGS AND DISTANCES: NORTH 9 DEGREES 39 MINUTES 31 SECONDS WEST A DISTANCE OF 49.76 FEET TO A POINT: THENCE NORTH 7 DEGREES 37 MINUTES 29 SECONDS WEST A DISTANCE OF 111.24 FEET TO A POINT; THENCE NORTH 6 DEGREES 26 MINUTES 13 SECONDS EAST A DISTANCE OF 73.23 FEET TO A POINT: THENCE NORTH 26 DEGREES 21 MINUTES 57 SECONDS EAST A DISTANCE OF 64.31 FEET TO A POINT; THENCE NORTH 36 DEGREES 7 MINUTES 27 SECONDS EAST A DISTANCE OF 74.38 FEET TO A POINT; THENCE NORTH 14 DEGREES 58 MINUTES 23 SECONDS EAST A DISTANCE OF 59.33 FEET TO A POINT; THENCE NORTH 11 DEGREES 24 MINUTES 15 SECONDS EAST A DISTANCE OF 76.27 FEET TO A POINT: THENCE NORTH 6 DEGREES 17 MINUTES 37 SECONDS WEST A DISTANCE OF 73.16 FEET TO A POINT; THENCE NORTH 2 DEGREES 47 MINUTES 41 SECONDS EAST A DISTANCE OF 79.99 FEET TO A POINT; THENCE NORTH 20 DEGREES 36 MINUTES 15 SECONDS WEST A DISTANCE OF 72.35 FEET TO A POINT; THENCE NORTH 34 DEGREES 58 MINUTES 57 SECONDS WEST A DISTANCE OF 54.11 FEET TO A POINT; THENCE NORTH 47 DEGREES 43 MINUTES 39 SECONDS WEST A DISTANCE OF 63.15 FEET TO A POINT; THENCE SOUTH 86 DEGREES 53 MINUTES 4 SECONDS WEST A DISTANCE OF 117.94 FEET TO A POINT; THENCE NORTH 80 DEGREES 28 MINUTES 25 SECONDS WEST A DISTANCE OF 106.04 FEET TO A POINT; THENCE NORTH 59 DEGREES 37 MINUTES 11 SECONDS WEST A DISTANCE OF 107.13 FEET TO A POINT; THENCE NORTH 50 DEGREES 7 MINUTES 59 SECONDS WEST A DISTANCE OF 126.46 FEET TO A POINT; THENCE NORTH 82 DEGREES 27 MINUTES 17 SECONDS WEST A DISTANCE OF 82.86 FEET TO A POINT; THENCE NORTH 57 DEGREES 23 MINUTES 26 SECONDS WEST A DISTANCE OF 39.41 FEET TO A POINT; THENCE NORTH 21 DEGREES 45 MINUTES 29 SECONDS WEST A DISTANCE OF 93.12 FEET TO A POINT; THENCE NORTH 6 DEGREES 55 MINUTES 18 SECONDS WEST A DISTANCE OF 74.43 FEET TO A POINT; THENCE NORTH 3 DEGREES 11 MINUTES 45 SECONDS EAST A DISTANCE OF 106.37 FEET TO A POINT; THENCE NORTH 10 DEGREES 9 MINUTES 33 SECONDS EAST A DISTANCE OF 121.67 FEET TO A POINT; THENCE LEAVING SAID CENTERLINE OF YELLOW RIVER SOUTH 58 DEGREES 57 MINUTES 22 SECONDS EAST A DISTANCE OF 511.41 FEET TO A POINT; THENCE NORTH 78 DEGREES 9 MINUTES 11 SECONDS EAST A DISTANCE OF 540.13 FEET TO A POINT AT THE CENTERLINE OF A CREEK; THENCE FOLLOWING THE CENTERLINE OF SAID CREEK FOR THE FOLLOWING BEARINGS AND DISTANCES: SOUTH 79 DEGREES 17 MINUTES 32 SECONDS EAST A DISTANCE OF 161.37 FEET TO A POINT; THENCE NORTH 67 DEGREES 47 MINUTES 54 SECONDS EAST A DISTANCE OF 138.86 FEET TO A POINT; THENCE NORTH 37 DEGREES 41 MINUTES 42 SECONDS EAST A DISTANCE OF 166.46 FEET TO A POINT; THENCE NORTH 82 DEGREES 9 MINUTES 53 SECONDS EAST A DISTANCE OF 409.15 FEET TO A POINT; THENCE NORTH 71 DEGREES 28 MINUTES 40 SECONDS EAST A DISTANCE OF 202.25 FEET TO A POINT; THENCE SOUTH 71 DEGREES 40 MINUTES 40 SECONDS EAST A DISTANCE OF 530.99 FEET TO A POINT; THENCE SOUTH 67 DEGREES O MINUTES 56 SECONDS EAST A DISTANCE OF 443.17 FEET TO A POINT; THENCE NORTH 67 DEGREES 2 MINUTES 28 SECONDS EAST A DISTANCE OF 281.11 FEET TO A POINT; THENCE NORTH 72 DEGREES 49 MINUTES 17 SECONDS EAST A DISTANCE OF 95.48 FEET TO A POINT; THENCE LEAVING THE CENTERLINE OF SAID CREEK SOUTH 28 DEGREES 31 MINUTES 38 SECONDS EAST A DISTANCE OF 201.11 FEET TO A POINT; THENCE 494.04 FEET ALONG AN ARC OF A CURVE TO THE RIGHT, (SAID CURVE HAVING A RADIUS OF 645.00 FEET AND A CHORD BEARING OF SOUTH 69 DEGREES 41 MINUTES 56 SECONDS EAST AND A CHORD DISTANCE OF 482.05 FEET) TO A POINT; THENCE 99.68 FEET ALONG AN ARC OF A CURVE TO THE LEFT, (SAID CURVE HAVING A RADIUS OF 100.00 FEET AND A CHORD BEARING OF SOUTH 76 DEGREES 18 MINUTES 42 SECONDS EAST AND A CHORD DISTANCE OF 95.60 FEET) TO A POINT; THENCE NORTH 75 DEGREES 7 MINUTES 57 SECONDS EAST A DISTANCE OF 1,069.95 FEET TO A POINT; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS EAST A DISTANCE OF 347.14 FEET TO A POINT; THENCE NORTH 87 DEGREES 25 MINUTES 41 SECONDS EAST A DISTANCE OF 116.44 FEET TO A POINT; THENCE SOUTH 67 DEGREES 45 MINUTES 18 SECONDS EAST A DISTANCE OF 200.06 FEET TO A POINT ON SAID WESTERLY RIGHT-OF-WAY LINE OF NORRIS LAKE ROAD; THENCE ALONG SAID RIGHT-OF-WAY LINE 278.59 FEET ALONG AN ARC OF A CURVE TO THE LEFT, SAID CURVE HAVING A RADIUS OF 1,047.12 FEET AND A CHORD BEARING AND DISTANCE OF SOUTH 20 DEGREES 53 MINUTES 40 SECONDS EAST 277.77 FEET TO A POINT; THENCE LEAVING SAID RIGHT-OF-WAY LINE SOUTH 47 DEGREES 40 MINUTES 17 SECONDS WEST A DISTANCE OF 359.24 FEET TO AN IRON PIN FOUND; THENCE SOUTH 44 DEGREES 8 MINUTES 24 SECONDS EAST A DISTANCE OF 270.28 FEET TO AN IRON PIN FOUND AND







FEMA FIRM MAP FEMA FIRM PANEL NO.: 13089C0181K NOT TO SCALE

SURVEY NOTES

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THIS SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED AND TO THE SURVEYOR'S BEST KNOWLEDGE ARE APPROXIMATELY AS SHOWN. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

2. I HAVE EXAMINED THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR DEKALB COUNTY. GEORGIA AND INCORPORATED AREAS, COMMUNITY PANEL NUMBERS 13089C0181K, PANEL 181 OF 201, AND 13089C0118K, PANEL 118 OF 201 EFFECTIVE DATE DECEMBER 8, 2016 AND FOUND A PORTION OF THE PROPERTY SHOWN HEREON TO FALL WITHIN A DESIGNATED FLOOD ZONE "AE" (AREAS OF 100 YEAR FLOOD).

3. THIS SITE IS TIED TO A GRID NORTH BASED ON GPS OBSERVATIONS AND WERE ADJUSTED BY PLANNERS AND ENGINEERS COLLABORATIVE IN MAY 2018. NORTH AMERICAN DATUM OF 1983 (NAD83), NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEORGIA WEST ZONE STATE PLANE COORDINATES.

4. THE TERM "CERTIFICATION" RELATING TO PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

5. NO ZONING INFORMATION PROVIDED FOR BUILDING SETBACKS.

6. THE CENTERLINE OF YELLOW RIVER AS LOCATED ON MAY 18, 2018 IS SUBJECT TO CHANGE DUE TO NATURAL CAUSES AND MAY OR MAY NOT REPRESENT THE ACTUAL LIMITS OF TITLE.

7. A COMPREHENSIVE FIELD REVIEW OF THE WETLANDS, INTERMITTENT STREAMS, PERENNIAL STREAMS AND OPEN WATERS WAS COMPLETE ON MAY 17, 2018 BY TUPELO ECOLOGICAL ASPECTS, INC.

8. PARCEL LINES DEPICTED HEREON NOTED AS PROPOSED ARE TENTATIVE AND DO NOT REPRESENT AN ACTUAL SUBDIVISION OF THE PROPERTY THAT HAS BEEN REVIEWED AND APPROVED BY THE JURISDICTIONAL GOVERNING AUTHORITY(S).

9. THIS SURVEY IS A RETRACEMENT OF EXISTING PROPERTY.

10. THE LEGAL DESCRIPTION SHOWN IS TRUE AND CORRECT DEPICTION OF THE SURVEYED PROPERTY.

11. THE SITE IS CURRENTLY UNDER CONSTRUCTION.

The field data upon which this map or plat is based has a closure precision of one foot in 44,619 feet and an angular error of 00°00′01″ per angle point

and was adjusted using the compass adjustment rule.

This map or plat has been calculated for closure and is found to be accurate to within one foot in 583,862 feet.

EQUIPMENT USED:

ANGULAR: TOPCON TOTAL STATION <u>LINEAR:</u> TOPCON TOTAL STATION

THIS PLAT IS A RETRACEMENT OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT SUBDIVIDE OR CREATE A NEW PARCEL OR MAKE ANY CHANGES TO ANY REAL PROPERTY BOUNDARIES. THE RECORDING INFORMATION OF THE DOCUMENTS, MAPS, PLATS, OR OTHER INSTRUMENTS WHICH CREATED THE PARCEL OR PARCELS ARE STATED HEREON. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILTY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A SECTION *15–6–67.* 

SHEET 1 OF 3

LEGEND IRON PIN FOUND (#4 Re-Rod unless noted otherwise) IRON PIN SET (#4 Re-Rod unless noted otherwise) IRON PIN WITH CAP FOUND O IPC 0 POINT O 0TP OPEN TOP PIPE FOUND CRIMP TOP PIPE FOUND ANGLE IRON O PKF PK NAIL FOUND PK NAIL SET O PKS CONCRETE MONUMENT FOUND RIGHT OF WAY MONUMENT FOUND UTILITY POLE (CARRIES MULTIPLE UTILITIES) POWER POLE (WOOD) Ø---\$ SERVICE POLE W/ LIGHT POWER POLE W/ GUY WIRE OVERHEAD POWER / TELEPHONE LINE ELECTRIC METER WATER VALVE FIRE HYDRANT WATER METER GM GAS METER STORM SEWER LINE SINGLE WING CATCH BASIN DOUBLE WING CATCH BASIN CURB INLET DROP INLET JUNCTION BOX SANITARY SEWER LINE SANITARY SEWER CLEANOUT SANITARY SEWER MANHOLE TELEPHONE BOX TELEPHONE MANHOLE MONITORING WELL FIBER OPTIC MARKER

ABBREVIA TIONS

UNDERGROUND WATER LINE

UNDERGROUND CABLE LINE

UNDERGROUND ELECTRIC LINE

UNDERGROUND TELEPHONE LINE

UNDERGROUND FIBER OPTIC LINE

UNDERGROUND GAS LINE

—*W*—

—*G*—

—Е—

—*T*—

<u></u>—с—

APPROXIMATE APPROX. BENCH MARK C&G CURB & GUTTER CORRUGATED METAL PIPE CENTERLINE DEED BOOK DUCTILE IRON PIPE DIR DIRECTION INVERT INV. POINT OF BEGINNING SINGLE WING CATCH BASIN DOUBLE WING CATCH BASIN

PB PLAT BOOK NOW OR FORMALLY RCP REINFORCED CONCRETE PIPE LIGHT POLE

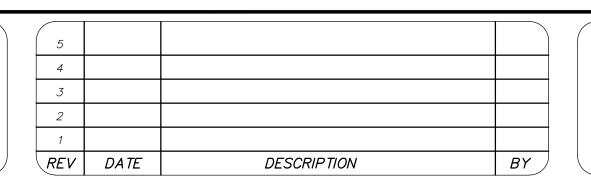
LAMP POST

PLANNERS AND ENGINEERS COLLABORATIVE

SAID TRACT CONTAINING 125.557± ACRES (5,469,245 S.F.), MORE OR LESS.

THE TRUE POINT OF BEGINNING.

"WE PROVIDE SOLUTIONS" ■SITE PLANNING ■ LANDSCAPE ARCHITECTURE ■CIVIL ENGINEERING ■ LAND SURVEYING 350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092 (770)451-2741 ■ WWW.PECATL.COM C.O.A.-LSF000004



LAND LOT(S) 228, 229, 252, 253, 257 & 258

DISTRICT 16TH

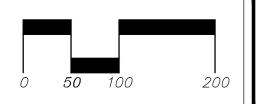
BOUNDARY SURVEY

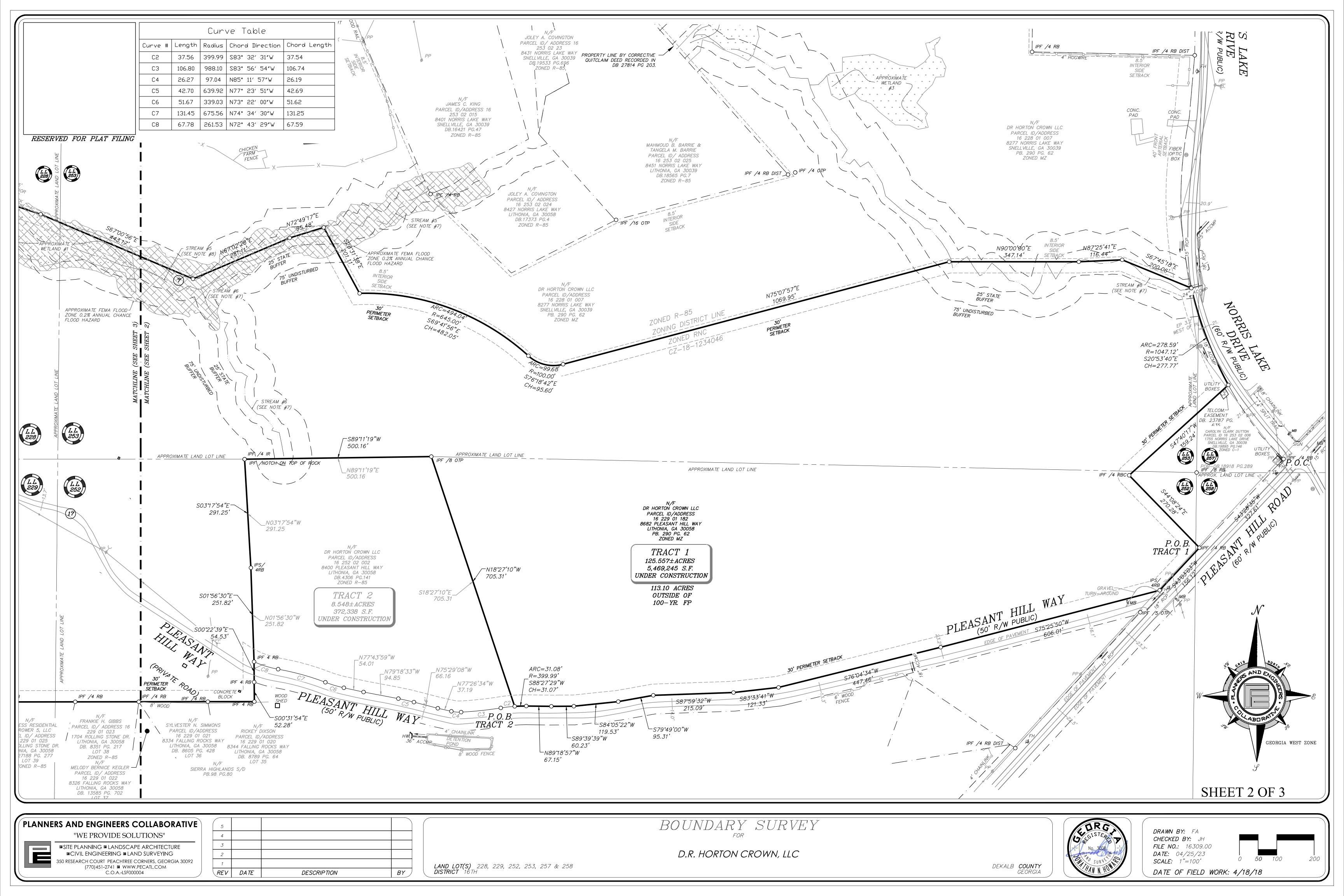
D.R. HORTON CROWN, LLC

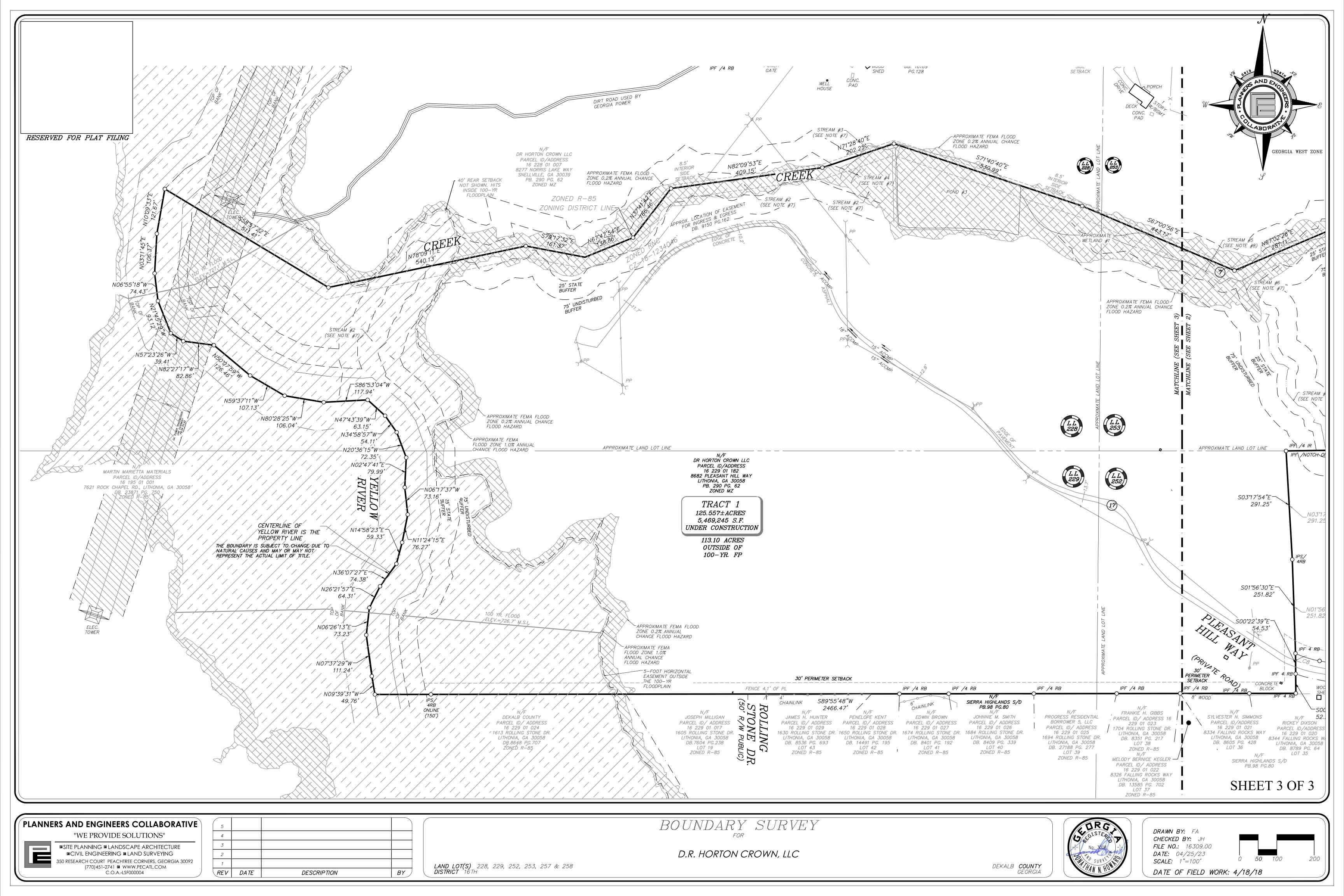


DRAWN BY: FA CHECKED BY: JH *FILE NO.:* 16309.00 DATE: 04/25/23 **SCALE:** 1"=100'

DATE OF FIELD WORK: 4/18/18







# **Z-18-1235046 RECOMMENDED CONDITIONS**

- 1. Limit the use to no more than 321 single-family detached residences with recreational and greenspace area pursuant to development standards of an RNC (Residential Neighborhood Conservation) District zoned subdivision subject to review and approval by the Planning and Sustainability Department.
- 2. Provide a minimum of four (4) points of access per the revised site plan and subject to approval by the Transportation Division within the Department of Public Works.
- 3. Dedicate at no cost to DeKalb County 40 feet from centerline of right-of-way on Pleasant Hill Road; provide 6-foot sidewalks along frontage of Pleasant Hill Road and extend to intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed rightof-way as may be required by the Transportation Division within the Department of Public Works.
- 4. Dedicate at no cost to DeKalb County 27.5 feet from centerline of right-of-way on Pleasant Hill Way; provide 12-foot travel lane on the development side from centerline; 5-foot sidewalks; and street light on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 5. Dedicate at no cost to DeKalb County 35 feet from centerline of Norris Lake Drive; provide 6-foot sidewalks along frontage of Norris Lake Drive and extend to the intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 6. Provide a left turn lane on Pleasant Hill Road and onsite road improvements as required by the Transportation Division within the Department of Public Works.
- 7. Provide pedestrian/bike access from the neighborhood into the park, as approved by the Parks and Recreation Department as may be required by the Transportation Division within the Department of Public Works.
- 8. The heated floor area shall be no less than 1,200 square feet.
- 9. Each home shall have a minimum two-car garage (side entry garages where lot area

# 10. Provide underground utilities.

- 11. Front and sides shall be sodded prior to the issuance of a Certificate of Occupancy.
- 12. No more than one (1) brick base monument sign shall be erected at each subdivision entrance. Sign area shall not exceed 32 square feet, excluding base and shall not exceed eight (8) feet in height.

- 13. The entrances to the subdivision shall be landscaped subject to the approval of the
- 14. Any applicant for development within this approved RNC shall be required to review and approval by the county attorney prior to the issuance of any land



Michael Thurmond

September 9, 2021

350 Research Court

Dear Mr. Kaczenski,

Peachtree Corners, GA 30092

Matt Kaczenski

330 W. Ponce de Leon Ave Decatur, GA 30030 www.dekalbcountyga.gov/planning Office: 404-371-2155

Chief Executive Officer DEPARTMENT OF PLANNING & SUSTAINABILITY

Andrew A. Baker, AICP

15

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WWW.PEC.PLUS

350 RESEARCH COURT STE 200 PEACHTREE CORNERS, GA 30092

# CHAMPION'S RUN - PHASE 2 RNC **SKETCH PLAT**

A MASTER PLANNED RESIDENTIAL DEVELOPMENT

> 8682 PLEASANT HILL RD LITHONIA, GA 30058

AP # 1246254

# REVISIONS

NO.	DATE	BY	DESCRIPTION
-1	6-17-22	CAH	1ST SKETCH PLAT SUBMITTAI
-2	12-21-22	CAH	2ND SKETCH PLAT SUBMITTA
-3	07-10-23	CAH	3RD SKETCH PLAT SUBMITTA
-4	04-26-24	CAH	4TH SKETCH PLAT SUBMITTAI
-5	11-15-24	CAH	5TH SKETCH PLAT SUBMITTAI

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.

CERTIFICATION # 0000066476 EXP. 06/27/2027

ZONING **CONDITIONS** 

SCALE: DATE: PROJECT:

11/15/2024 16309.02

DeKalb County Arborist.

provide a legal mechanism for unified control of the entire parcel to be developed for disturbance or building permit.

> This letter is to inform you that your request for a minor modification to taper a multipurpose path from ten feet to five feet where it will be located along 1755 Norris Lake Road, located at the intersection of Norris Lake Drive and Pleasant Hill Road, is APPROVED. The modification request

Re: Minor Modification #1245236 to Zoning Condition of CZ-18-1235046

is to condition #5 of CZ-18-1235046, which reads as follows:

5. Dedicate at no cost to DeKalb County 35 feet from the centerline of Norris Lake Drive; provide 6-foot sidewalks along frontage of Norris Lake Drive and extend to the intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights back-of-curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.

Your application states that there is insufficient public right-of-way to construct a ten-foot-wide path along the frontage of 1755 Norris Lake Road. The Department of Public Works-Transportation Division is content with this modification. Moreover, tapering the sidewalk would not constitute a major change to the conditions of CZ-18-1235046, as described in Section 27-7.3.10. This is a minor change that implements only a slight alteration to the approved conditional site plan made necessary by actual field conditions at the time of development and does not alter the impact of the development on nearby properties nor the intent or integrity of the condition as originally

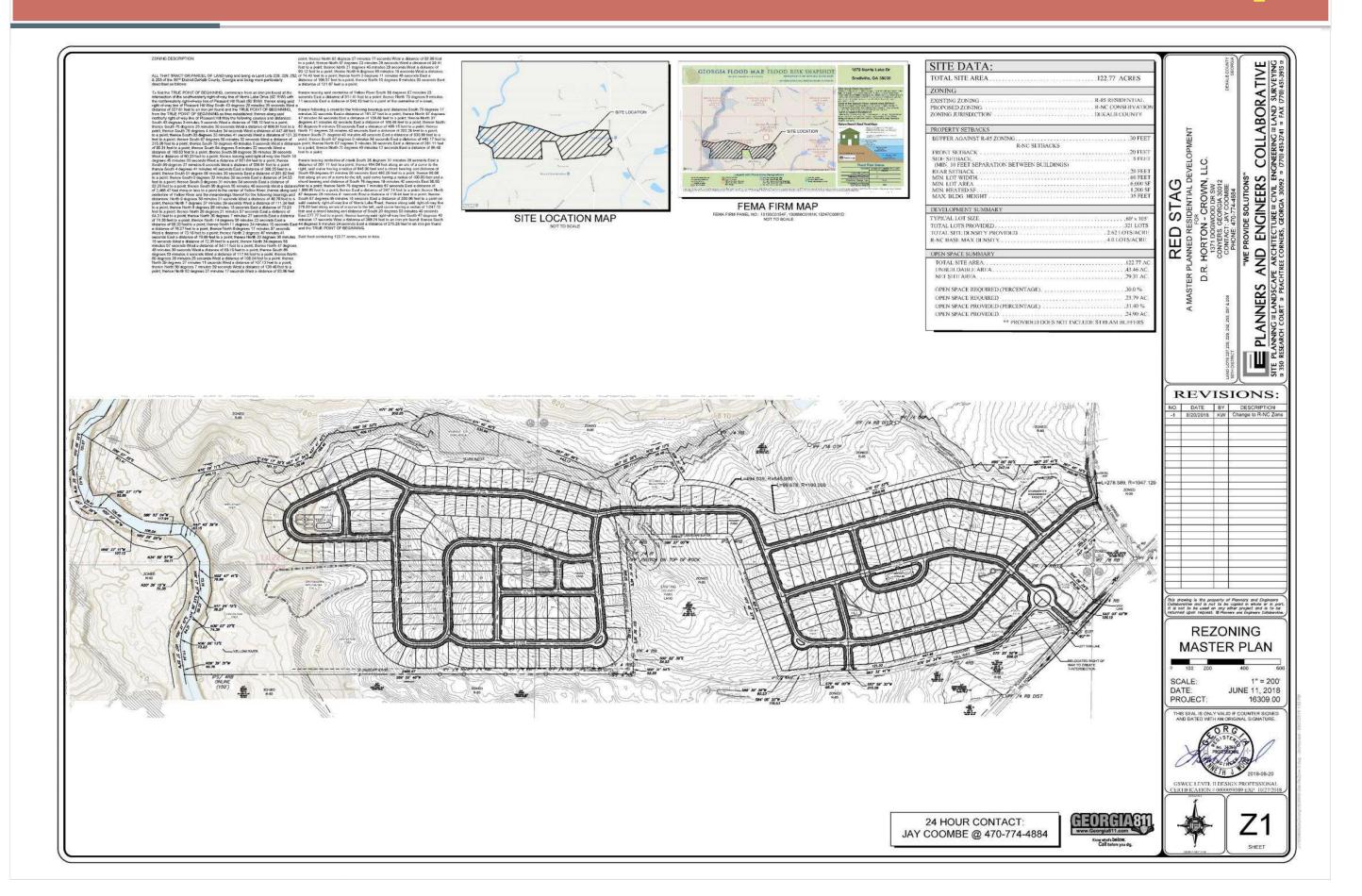
If additional information is required or further assistance is needed, please do not hesitate to contact me at (470) 464-1077.

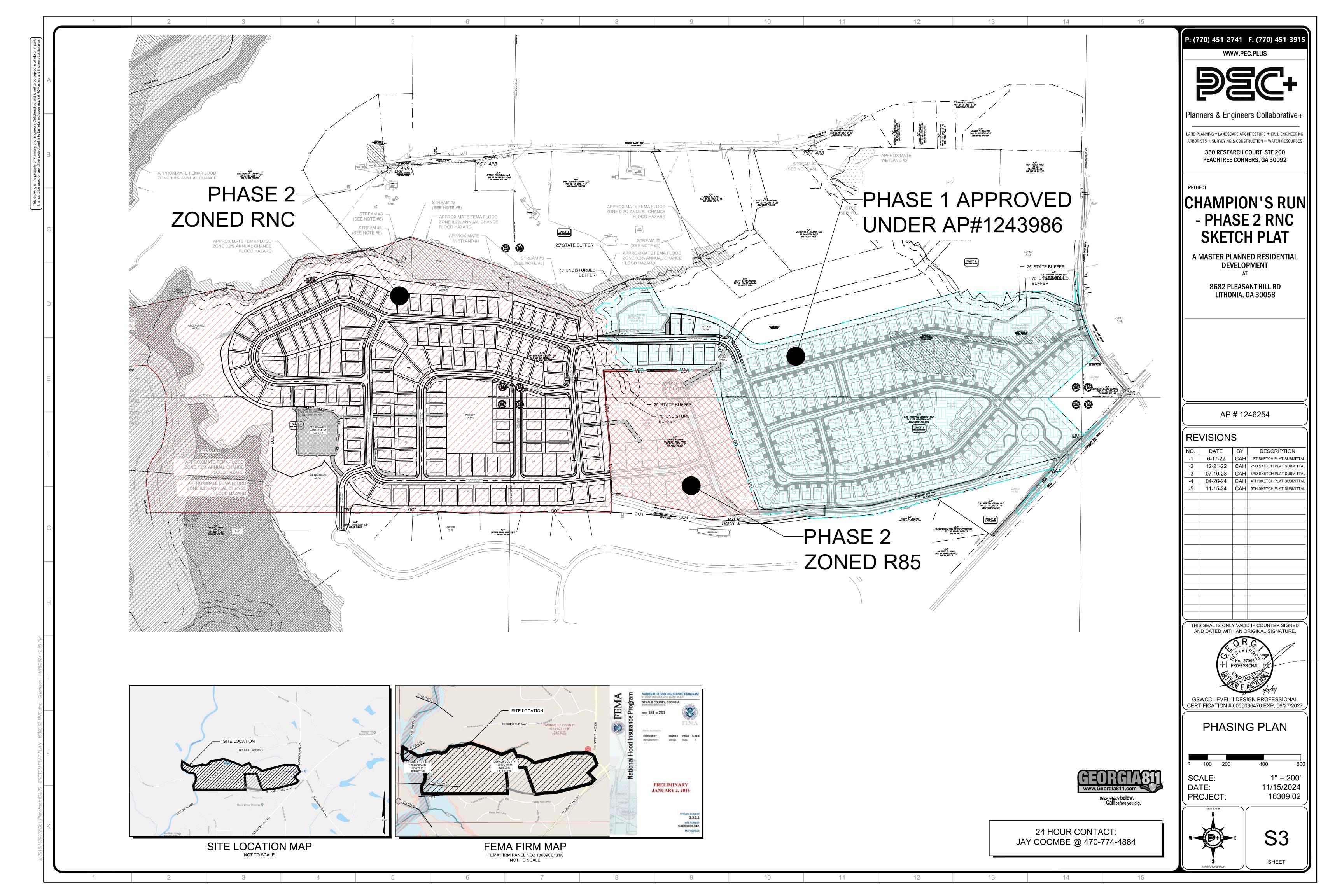
Regards,

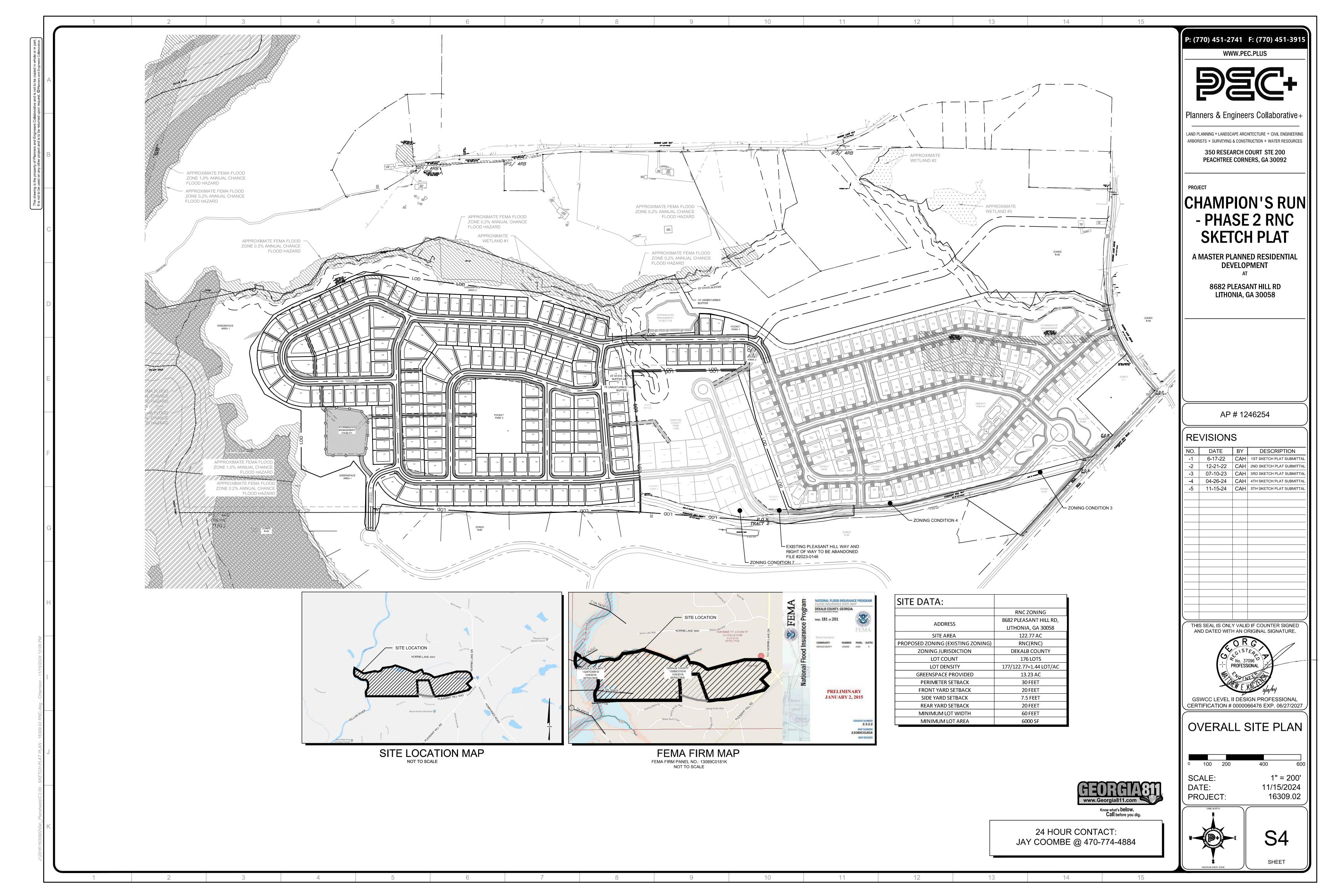
Brandon L. White, MPA, AICP Current Planning "Zoning" Manager

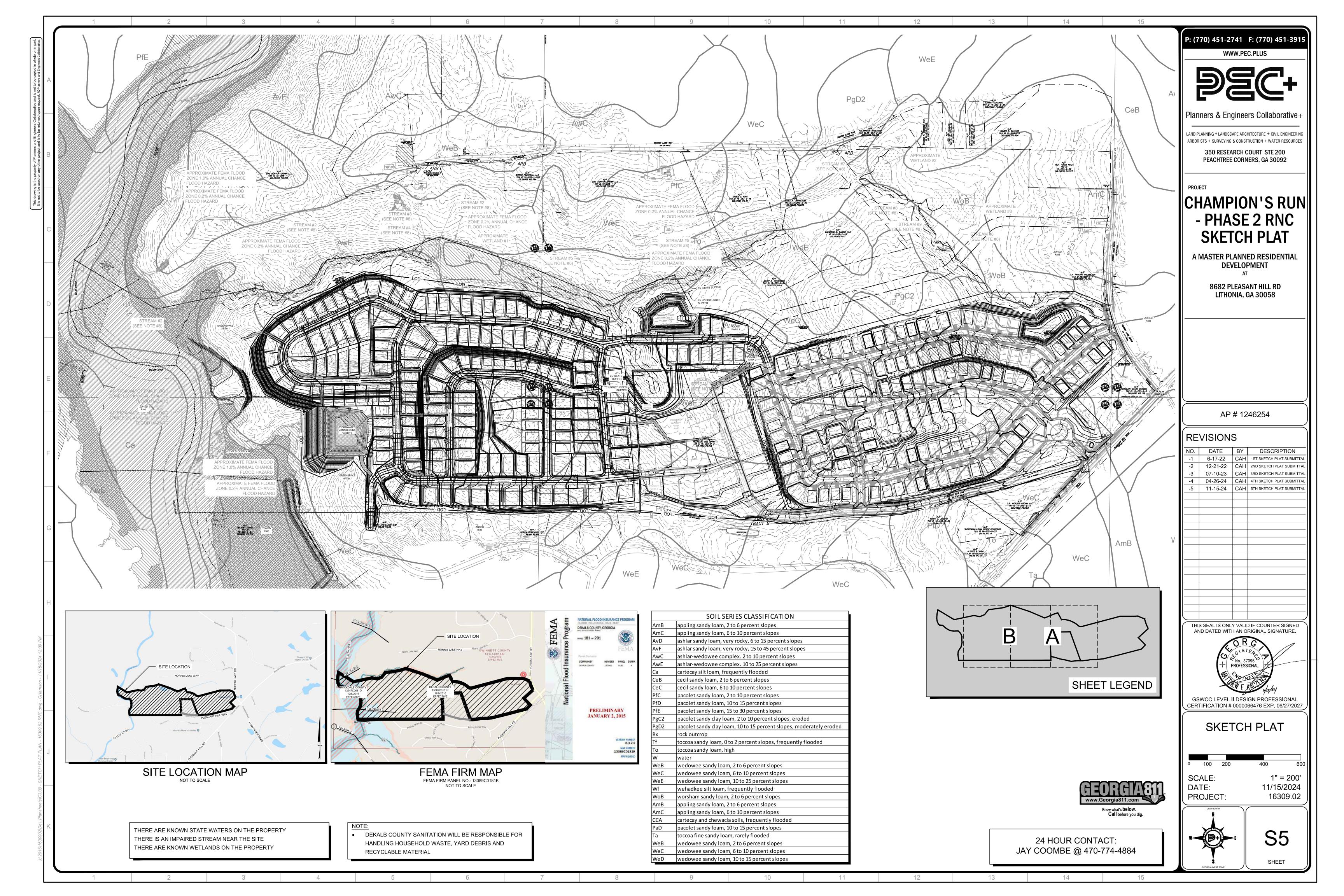
cc: Rick Cunningham, Deputy Director of Development Services Franck Ouinsou Houenou, Land Development Manager Patrece Keeter, Transportation Manager

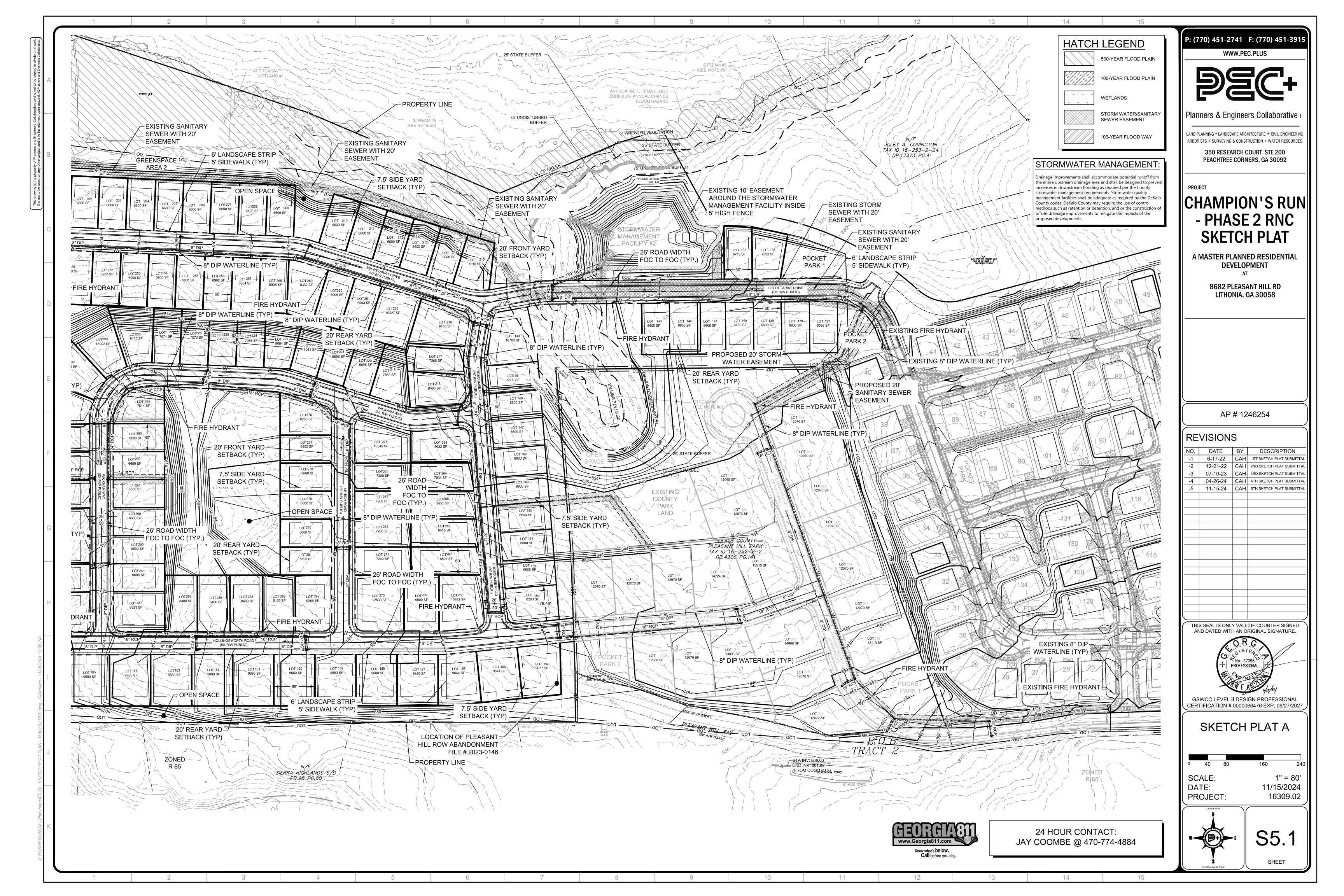
N.17 Z-18-1235046 Revised RNC Site Plan

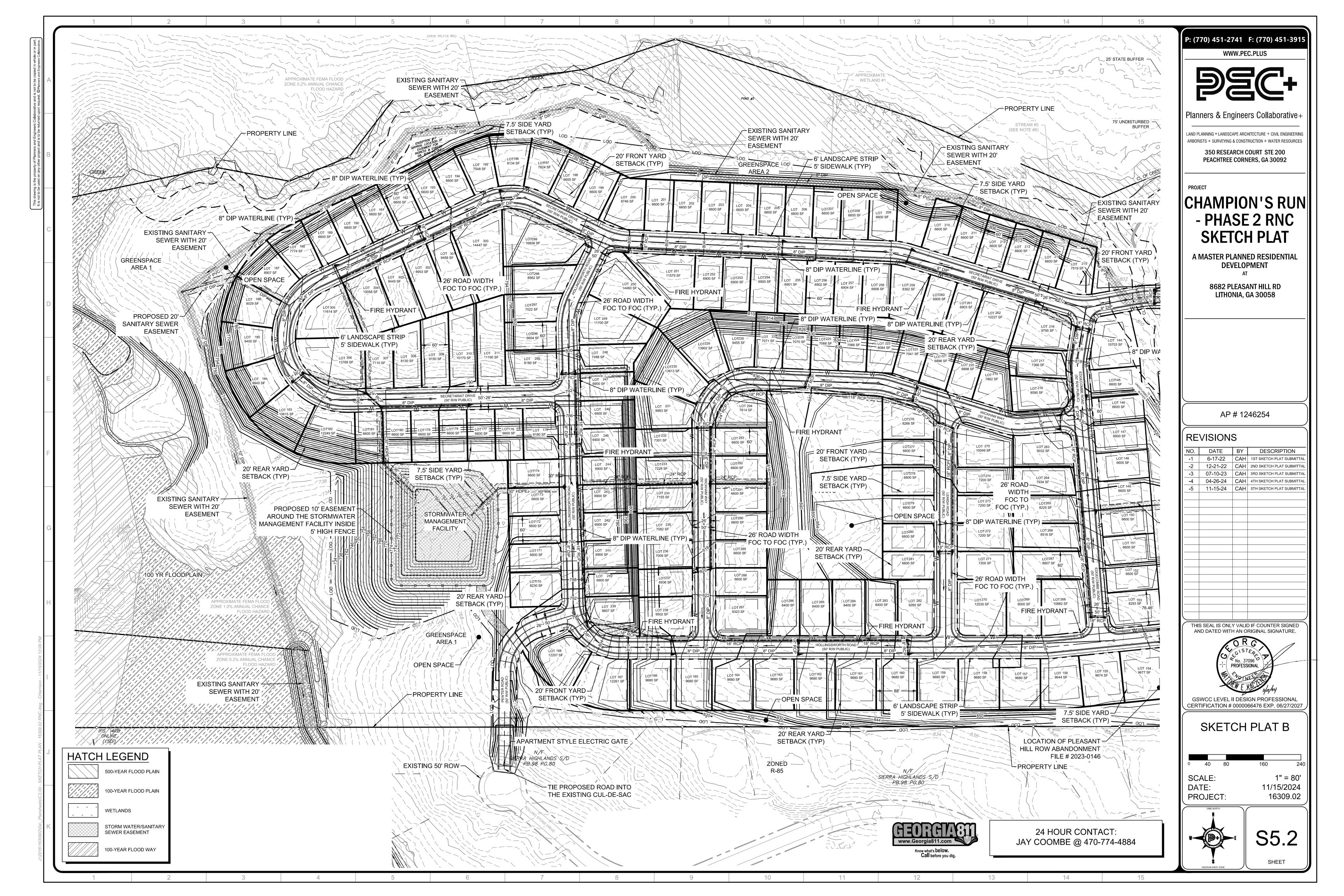


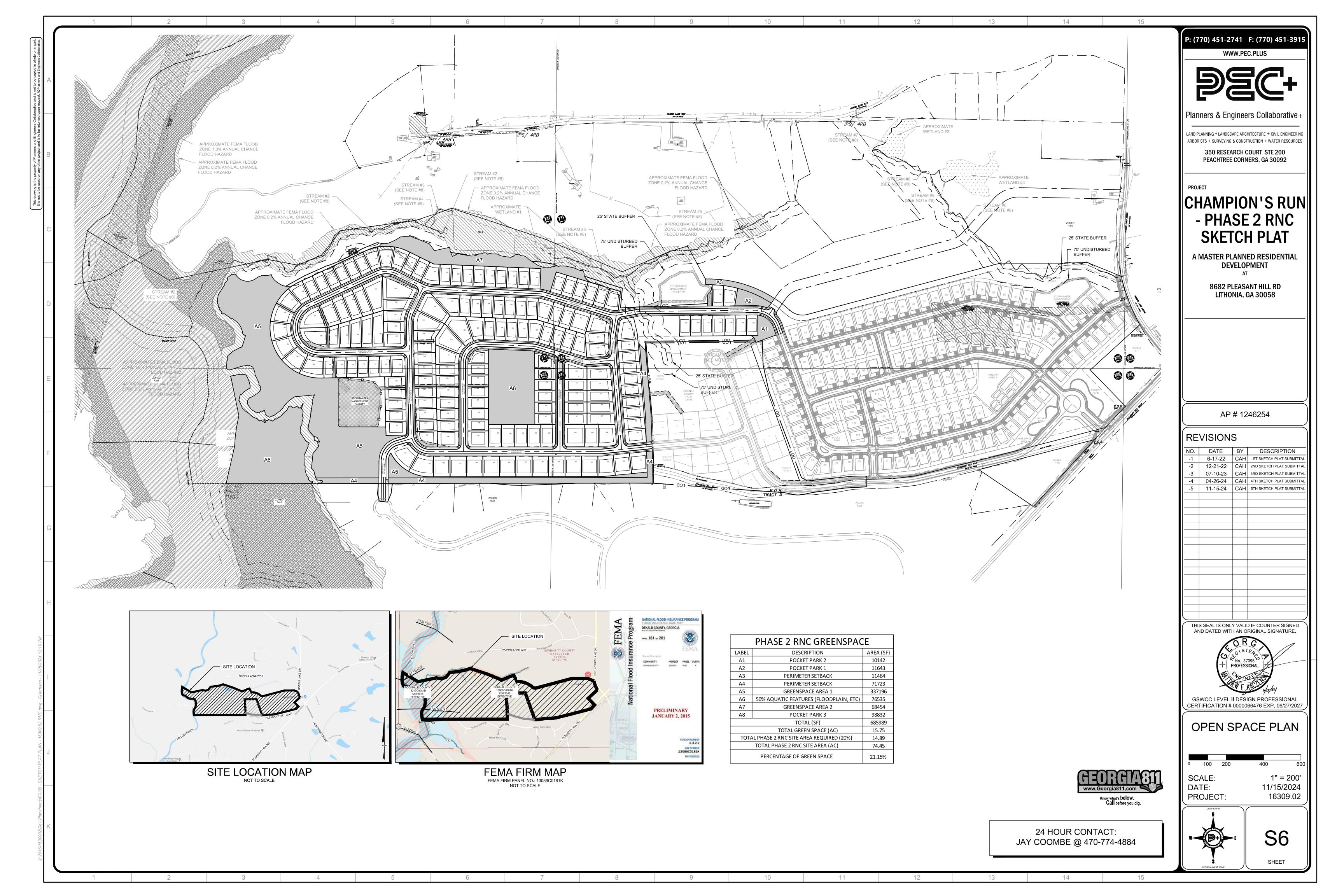


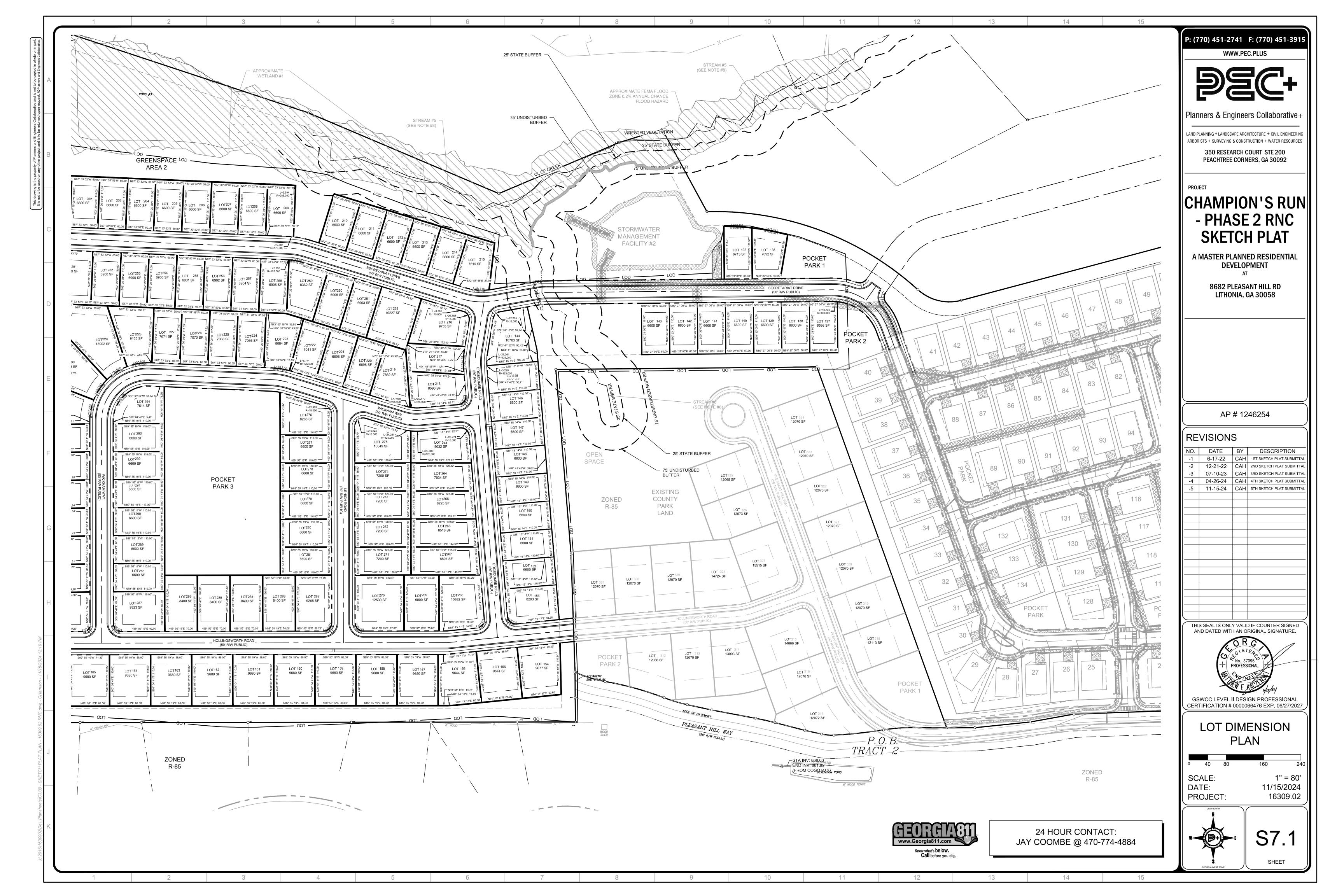


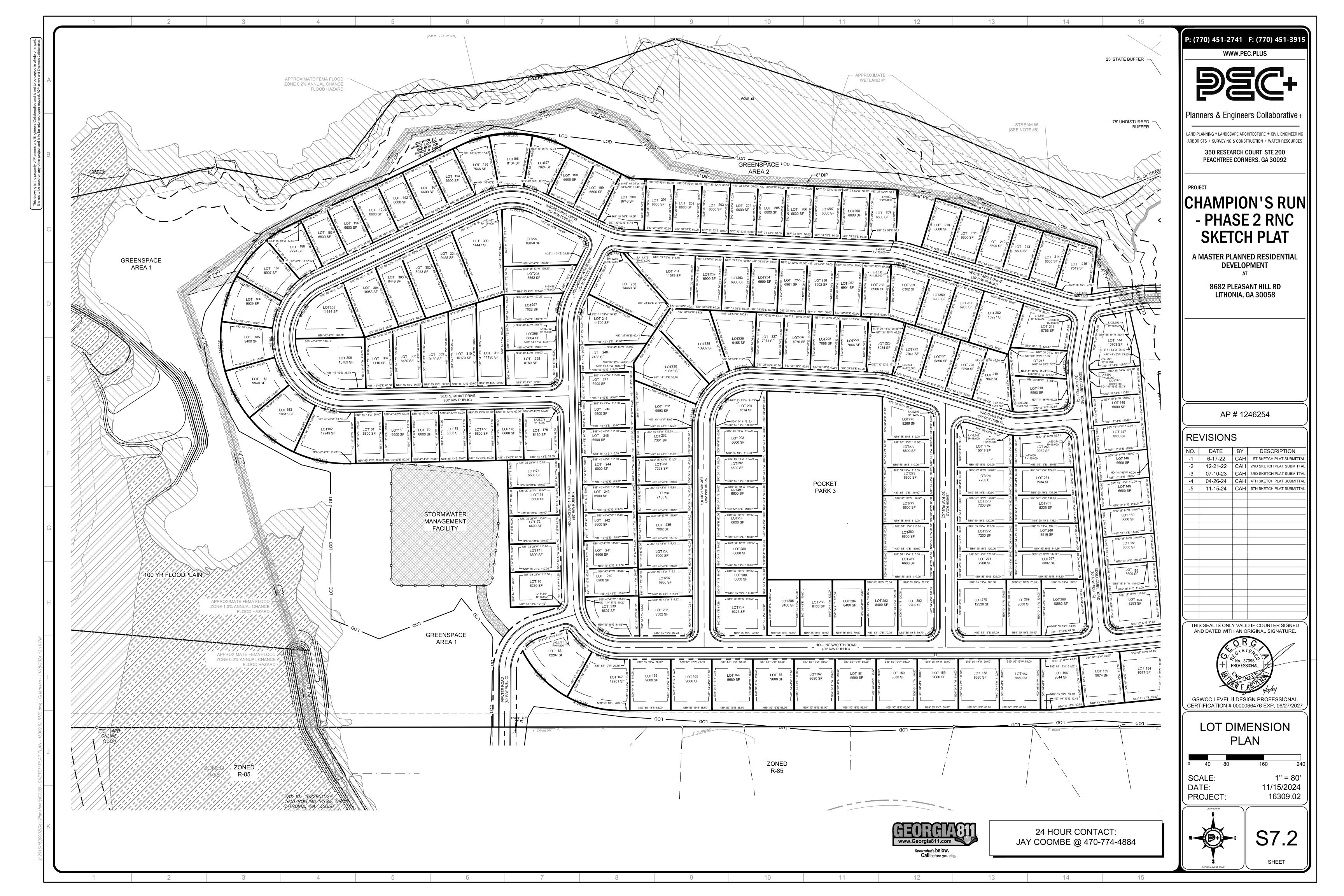












# **REVISION NOTE:**

THE PHASE 2 SITE PLAN HAS BEEN UPDATED ON 7/10/23 REFLECTED IN THE SITE PLAN SHOWN ABOVE.

# SPECIMEN TREE LEGEND

SPECIMEN TREE & CRZ (1' RADIUS TO 1" DBH)

30 INCHES

30 INCHES

10 INCHES

40

379 | SOURWOOD | 10 | NST

380 | SOURWOOD |

TREE TO BE SAVED

NON SPECIMEN TREE

OFFSITE TREE TO BE SAVED

SPECIMEN TREE SIZE OVERSTORY HARDWOOD TREES

OVERSTORY SOFTWOOD TREES

FLOWERING UNDERSTORY TREES

# SPECIMEN TREE NOTE

SPECIMEN TREE REPORT COMPLETED ON 10/18/2019 BY ROOT ZONE TREE CONSULTANTS: JAMES MAHONEY

ISA CERTIFIED ARBORIST SO #10291A

# **ADDITIONAL NOTES**

- 1. THE TREE FEATURES SHOWN HEREON WERE DETERMINED BY GPS OBSERVATIONS AND WERE ADJUSTED BY PLANNERS AND ENGINEERS COLLABORATIVE IN SEPTEMBER 2018. NORTH AMERICAN DATUM OF 1983 (NAD83), NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEORGIA WEST ZONE STATE PLANE COORDINATES.
- 2. THE FIELD DATA UPON WHICH THIS MAP IS BASED HAS A PRECISION OF SUB 1-METER.
- 3. EQUIPMENT USED:
- HORIZONTAL TRIMBLE GEO 7X SERIES

	•						1	•													
		EXISTING SPEC	IMEN TRE	ES					EXISTING SPEC	IMEN TRE	ES	•			_	EXISTING SPEC	IMEN TRE	ES			
QTY	TAG	SPECIES	DBH	NST	OFFSITE	INCHES	QTY	TAG	SPECIES	DBH	NST	OFFSITE	INCHES	QTY	TAG	SPECIES	DBH	NST	OFFSITE	INCHES	
1	340	PINE	32	-	Х	0	42	381	SOURWOOD	11	-		11	83	422	SOURWOOD	12	-	Х	0	<u>.                                    </u>
2	341	red cedar	33	NST	Х	0	43	382	SOURWOOD	11	-	Х	0	84	423	POPLAR	34	NST	Х	0	l
3	342	N RED OAK	46	NST		0	44	383	SOURWOOD	12	-	Х	0	85	424	POPLAR	44	-	Х	0	ı
4	343	SILVER MAPLE	34	NST		0	45	384	SOURWOOD	12	-	Х	0	86	425	PINE	32	-	Х	0	
5	344	POPLAR	33	NST		0	46	385	SOURWOOD	11	-	Х	0	87	426	S RED OAK	31	NST	Х	0	
6	345	POPLAR	36	NST		0	47	386	SOURWOOD	22	-	Х	0	88	427	S RED OAK	39	NST		0	
7	346	POPLAR	35	NST		0	48	387	SOURWOOD	16	NST	Х	0	89	428	PINE	30	-		30	
8	347	POPLAR	30	NST	Х	0	49	388	SOURWOOD	12	-	Х	0	90	429	S RED OAK	30	NST		0	1
9	348	S RED OAK	30	NST	Х	0	50	389	SOURWOOD	11	NST	Х	0	91	430	S RED OAK	33	-		33	
10	349	S RED OAK	33	-	Х	0	51	390	WATER OAK	33	NST		0	92	431	S RED OAK	33	NST	Х	0	1
11	350	S RED OAK	34	NST		0	52	391	POPLAR	30	NST	Х	0	93	432	POPLAR	48	NST	Х	0	1
12	351	pecan	30	NST		0	53	392	WATER OAK	34	NST		0	94	433	S RED OAK	34	NST		0	1
13	352	pecan	32	NST		0	54	393	DOGWOOD	10	NST		0	95	434	SWEETGUM	34	-		34	1
14	353	PINE	38	NST	Х	0	55	394	S RED OAK	30	-		30	96	435	WATER OAK	33	-		33	
15	354	PINE	30	NST		0	56	395	DOGWOOD	13	NST		0	97	436	WATER OAK	38	NST		0	1
16	355	N RED OAK	43	NST		0	57	396	WATER OAK	33	NST		0	98	437	WATER OAK	35	NST		0	T
17	356	S RED OAK	43	-		43	58	397	WATER OAK	40	NST		0	99	438	WATER OAK	34	NST		0	
18	357	pecan	33	NST		0	59	398	WATER OAK	44	NST		0	100	439	WATER OAK	30	NST		0	1
19	358	pecan	34	NST		0	60	399	WATER OAK	49	NST		0	101	440	WATER OAK	64	-		64	1
20	359	N RED OAK	43	NST		0	61	400	WATER OAK	39	NST		0	102	441	WATER OAK	31	NST		0	İ
21	360	S RED OAK	34	-		34	62	401	WATER OAK	38	NST		0	103	442	PINE	38	NST		0	1
22	361	pecan	30	-		30	63	402	SOURWOOD	30	NST		0	104	443	SYCAMORE	49	NST		0	1
23	362	S RED OAK	52	NST		0	64	403	SOURWOOD	17	NST		0	105	444	RED MAPLE	38	NST	Х	0	1
24	363	S RED OAK	40	-		40	65	404	CHESTNUT OAK	32	-		32	106	445	WATER OAK	31	-	Х	0	1
25	364	sourwood	34	NST		0	66	405	WHITE OAK	31	-		31	107	446	SYCAMORE	31	-		31	1
26	365	SOURWOOD	17	NST	Х	0	67	406	SOURWOOD	26	NST		0	108	447	WATER OAK	31	-		31	1
27	366	SOURWOOD	16	NST		0	68	407	SOURWOOD	22	NST		0	109	448	WATER OAK	41	NST		0	1
28	367	SOURWOOD	24	NST		0	69	408	POPLAR	30	NST		0	110	449	WATER OAK	34	NST		0	1
29	368	WHITE OAK	31	NST		0	70	409	SOURWOOD	24	NST		0	111	450	WATER OAK	30	NST		0	1
30	369	SOURWOOD	10	NST		0	71	410	POPLAR	60	NST		0	112	451	WATER OAK	31	NST		0	1
31	370	SOURWOOD	11	-		11	72	411	POPLAR	46	NST		0	113	452	WATER OAK	48	NST		0	1
32	371	SOURWOOD	13	-		13	73	412	POPLAR	30	-		30	114	453	WHITE OAK	37	NST		0	1
33	372	SOURWOOD	11	-		11	74	413	POPLAR	41	NST		0	115	454	WATER OAK	35	-		35	1
34	373	SOURWOOD	13	-		13	75	414	WHITE OAK	32	-		32	116	455	WATER OAK	39	NST		0	ı
35	374	SOURWOOD	10	NST		0	76	415	S RED OAK	31	-		31	117	456	POPLAR	30	NST		0	I
36	375	SASSAFRAS	10	NST		0	77	416	WHITE OAK	38	NST		0	118	457	WATER OAK	32	-		32	ı
37	376	SOURWOOD	16	NST		0	78	417	WHITE OAK	33	NST		0	119	458	WATER OAK	32	NST		0	ı
38	377	SOURWOOD	21	-		21	79	418	S RED OAK	34	-		34	120	459	WATER OAK	56	NST		0	ı
39	378	SOURWOOD	11	NST		0	80	419	POPLAR	33	-		33	121	460	WATER OAK	37	-		37	ı
40	270	COLIDIAGOOD	10	NICT	1		01	420	COLIDIAGOOD	11	1	I v		122	1.01	NAVATED OAK	Г1	NICT	1	1 .	

420 SOURWOOD 11

POPLAR 31 -

421

# Ш

			LAND LOT	
		RE'	VISI	ONS:
	NO.	DATE	BY	DESCRIPTION
	1	07/10/2023	RH	SKETCHPLAT
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			SHEET	TITLE

**EXISTING SPECIMEN TREES** 

DBH | NST | OFFSITE | INCHES

38

0

0

0

0

0

35

0 0

987

37 | NST

37 NST

38 NST

35 NST

38 NST

36 NST

31 NST

32 NST

34 NST

33 NST

38 -

15 NST

4284

38

SPECIES

WHITE OAK

WATER OAK

**WATER OAK** 

POPLAR

**WATER OAK** 

WHITE OAK

SWEETGUM

S RED OAK

WATER OAK

WATER OAK

**WATER OAK** 

POPLAR

S RED OAK

REDBUD

474 RIVER BIRCH

QTY

124

125

126

127

128

129

130

131

133

134

135

136

137

138

TOTAL:

461 WATER OAK 51 NST

WATER OAK 33

122

TAG

469

473

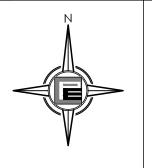
476

477

SCALE: 1" - 200' DATE: JUL 10, 2023 PROJECT: 16309.00

0 100 200





1 OF 1

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STAND A CALCULATIONS	
TREE DENSITY	
UNIT AVERAGE =	28.133
UNITS PER ACRE =	490.19
TOTAL ACREAGE =	15.
UNITS IN STAND =	7681.3

STAND C CALCULATIONS	
TREE DENSITY	
UNIT AVERAGE =	57.
UNITS PER ACRE =	1002.3
TOTAL ACREAGE =	26
UNITS IN STAND =	26330

STAND B CALCULATIONS	
TREE DENSITY	
UNIT AVERAGE =	43.775
UNITS PER ACRE =	762.7356
TOTAL ACREAGE =	7.06
UNITS IN STAND =	5384.913

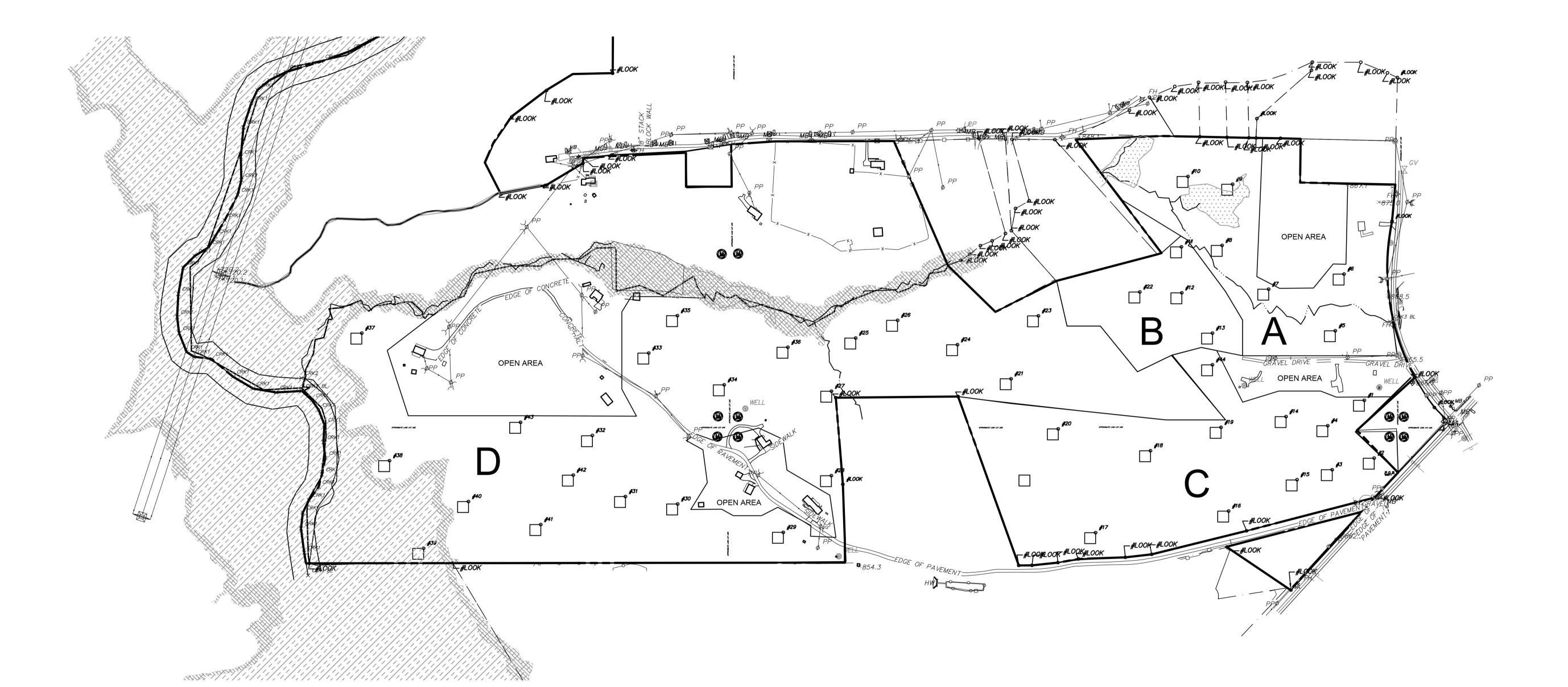
STAND D CALCULATIONS	
TREE DENSITY	
UNIT AVERAGE =	35.4
UNITS PER ACRE =	617.
TOTAL ACREAGE =	$\epsilon$
UNITS IN STAND =	4244

# SPECIMEN TREE NOTE

SAMPLING COMPLETED ON 6/8/2018 BY ROOT ZONE TREE CONSULTANTS:
HALLIE HARRIMAN, SO-10044A
ISA CERTIFIED ARBORIST®

# ADDITIONAL NOTES

- THE TREE FEATURES SHOWN HEREON WERE DETERMINED BY GPS
   OBSERVATIONS AND WERE ADJUSTED BY PLANNERS AND ENGINEERS
   COLLABORATIVE IN FEBRUARY 2018. NORTH AMERICAN DATUM OF 1983
   (NAD83), NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88),
   GEORGIA WEST ZONE STATE PLANE COORDINATES.
- 2. THE FIELD DATA UPON WHICH THIS MAP IS BASED HAS A PRECISION OF SUB 1-METER.
- EQUIPMENT USED: HORIZONTAL - TRIMBLE GEO 7X SERIES



24 HOUR CONTACT JAY COOMBE @ 470-774-4884 DEKALB COUNTY GEORGIA

DEKALB C

CONSULTAR

JED RESIDENTIAL COMMUNFOR TORION - CROWN, LLC
DOGWOOD DR. SW
YERS, GEORGIA 30012

FOR D. R. HORTON - CROW 1371 DOGWOOD DR CONYERS, GEORGIA PHONE: 470-774-44

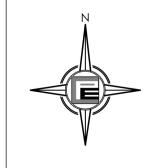
229, 252, 253, 257, & 258

	I\L	v ISI	ONS.
NO.	DATE	BY	DESCRIPTION
-			

SAMPLE LOCATION

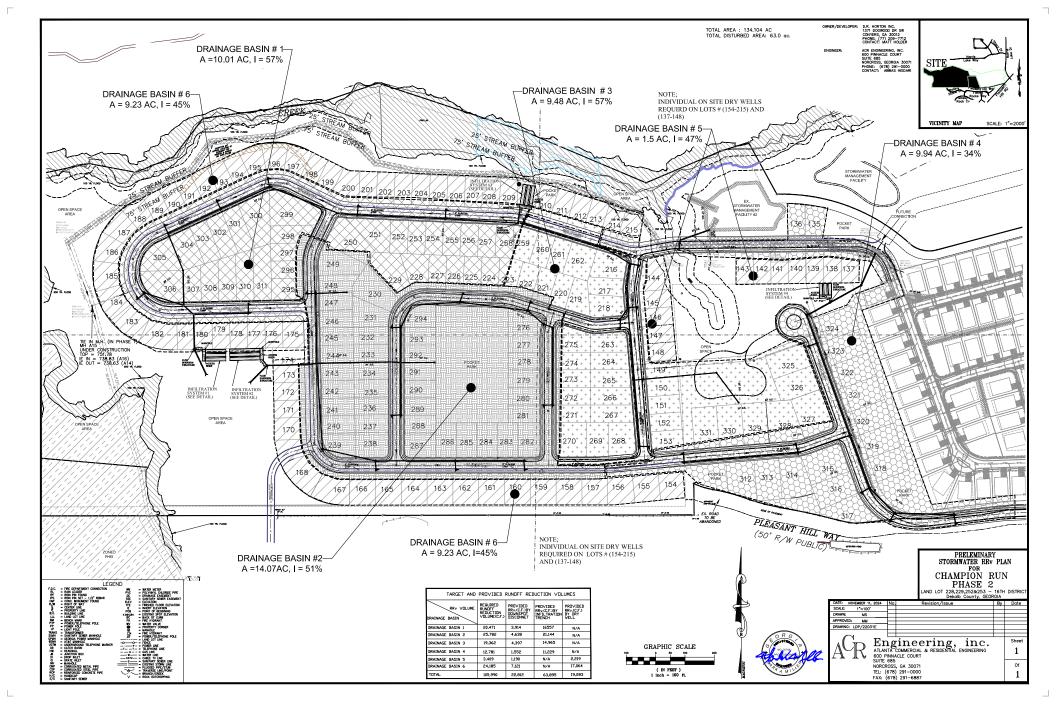
0 125 250 50 SCALE: 1" - 250' DATE: JUNE 8, 2018 PROJECT: 16309.00





SHEET #

This drawing is the property of Planners and Engineers
Collaborative and is not to be copied in whole or in part. It is not to
be used on any other project and is to be returned upon request.
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Chief Executive Officer
Michael Thurmond

DEPARTMENT OF PLANNING & SUSTAINABILITY

Director

Andrew A. Baker, AICP

## SUBDIVISION SKETCH PLAT APPLICATION

Application fee: \$300.00 and \$10.00 per lot.

All applications must be accompanied by ten (10) **folded** copies of the sketch plat **and a digital** file of plans (email accepted or flash drive)

(All plans must be folded)

## PLEASE PRINT ALL INFORMATION

PROJECT NAME <u>Champion's Run - Phase 2 (RNC</u>	C Zoning)
PROJECT LOCATION PARCEL ID NO.: and not 16 252 02 001 and 10	6 229 01 182 are the same address but GIS has 16 229 01 182 as the parcel #
PROPOSED USE Single family homes	
DATE OF SKETCH PLAT CONFERENCE 9/30/2022	<u> </u>
SITE ACREAGE 122.77 # LOTS 180 # UNITS	180 SEWER X SEPTIC TANK NA
PROPERTY OWNER D.R. Horton Crown LLC	PHONE <u>470.774.4884</u>
ADDRESS 1371 Dogwood Drive	
CITY Conyers	STATE <u>GA</u> ZIP 30012
APPLICANT/AGENT AUTHORIZED TO RECEIVE ALL Kristal Riggins- PEC+	NOTIFICATIONS:
ADDRESS 350 Research Court, Suite 200	PHONE 678.684.6217
CITY Peachtree Corners	
DEVELOPER D.R. Horton Crown LLC	PHONE <u>470.774.4884</u>
ADDRESS 1371 Dogwood Drive	PHONE470.774.4884
CITY Conyers	STATE <u>GA</u> ZIP <u>30012</u>
ENGINEER / ARCH PEC+	PHONE770.451.2741
ADDRESS 350 Research Court, Suite 200	
CITY Peachtree Corners	STATE <u>GA</u> ZIP <u>30092</u>

404.371.2155 (o) 404.371.4556 (f) DeKalbCountyGa.gov Clark Harrison Building 330 W. Ponce de Leon Ave Decatur, GA 30030

Chief Executive Officer Michael Thurmond **DEPARTMENT OF PLANNING & SUSTAINABILITY** 

Director

Andrew A. Baker, AICP

**RNC Zoning** 

# **SKETCH PLAT APPLICATION AUTHORIZATION**

TO WHOM IT MAY CONCERN:	
I/WeD.R. Horton Crown, LLC	
Being owner(s) of the property described below or a	ttached, hereby delegate authority to
Planner and Engineers Collaborative	to file an application in my/our
behalf.	to me an approacion in my/ out
	nd 16 229 01 182 are the same address but GIS has 16 229 01 182 and not 16 252 02 001.
Sarah Haughten Notary Public	OWNER
NOTARY PUBLIC	OWNER
NOTARY PUBLIC	OWNER
NOTARY PUBLIC	OWNER

ALL APPLICATIONS FOR SKETCH PLATS MUST BE SUBMITTED BY THE OWNER OF THE AFFECTED PROPERTY OR THE AUTHORIZED AGENT OF THE OWNER. SUCH AUTHORIZATION SHALL BE NOTARIZED AND ATTACHED TO THE APPLICATION.

Sarah Haughton
NOTARY PUBLIC
Rockdale County, GEORGIA
My Commission Expires 03/11/2025

Z-18-1235046 2018-2450

#### AN ORDINANCE TO AMEND THE DEKALB COUNTY ZONING MAP

AN ORDINANCE TO AMEND THE DEKALB COUNTY ZONING MAP IN ORDER TO REZONE PROPERTY FROM R-85 (RESIDENTIAL MEDIUM LOT) DISTRICT TO RSM (SMALL LOT RESIDENTIAL MIX) DISTRICT TO DEVELOP 339 SINGLE-FAMILY DETACHED RESIDENCES ON 122.77 ACRES AT A DENSITY OF 2.76 UNITS PER ACRE. THE PROPERTY IS LOCATED ON THE EAST SIDE OF YELLOW RIVER, SOUTH OF AN EXISTING CREEK, WEST SIDE OF NORRIS LAKE DRIVE, WEST SIDE OF PLEASANT HILL ROAD AND THE NORTH SIDE OF PLEASANT HILL WAY AT 1679, 1735, 1729, 1695, 1709, 1719 NORRIS LAKE DRIVE; 8277 & 8455 NORRIS LAKE WAY; 8682 PLEASANT HILL ROAD; AND 8657, 8612, 8620, 8615, 6564, 8550, 8565 & 8581 PLEASANT HILL WAY. THE PROPERTY HAS APPROXIMATELY 1,664.96 FEET OF FRONTAGE ALONG THE NORTH SIDE OF PLEASANT HILL WAY, APPROXIMATELY 156.12 FEET OF FRONTAGE ALONG THE WEST SIDE OF PLEASANT HILL ROAD AND APPROXIMATELY 277.77 FEET OF FRONTAGE ALONG THE WEST SIDE OF NORRIS LAKE DRIVE AND CONTAINS 122.77 ACRES.

**APPLICANT:** D R Horton Crown, LLC

OWNER:

COMMISSION DISTRICTS: 5 & 7

**WHEREAS,** D R Horton Crown, LLC has filed an application to amend the DeKalb County Zoning Ordinance to rezone property located at 1679, 1735, 1729, 1695, 1709, 1719 Norris Lane Drive; 8277 & 8455 Norris Lake Way; 8682 Pleasant Hill Road; and 8657, 8612, 8620, 8615, 6564, 8550, 8565 & 8581 Pleasant Hill Way, and more particularly described as follows:

All that tract or parcel of land and being in **District 16**, **Land Lots 228**, **229**, **252**, **& 253**, **Blocks 01 & 02**, **Parcels 003**, **006**, **007**, **008**, **013**; **002**; **001**, **003** & **005**; **004**, **005**, **007**, **008**, **009**, **011**, **026** & **027** of DeKalb County, Georgia, containing 122.77 acres, and

**WHEREAS,** it appears to the Board of Commissioners that the application meets all of the criteria set forth in the DeKalb County Code, Chapter 27, Article IIV, Division 3, Section 27-7.3 for amending the DeKalb County Zoning Ordinance for the subject property from R-85 District to RSM District.

### THE BOARD OF COMMISSIONERS OF DEKALB COUNTY, GEORGIA, HEREBY ORDAINS:

**Part 1:** Pursuant to the authority of the DeKalb County Board of Commissioners to exercise powers of zoning, set forth in Section 27, Article 1.1 & 7.3 of the DeKalb County Zoning Ordinance, an amendment to rezone property from R-85 (Residential Medium Lot) District to RSM (Small Lot Residential Mix) District to develop 339 single-family detached residences on 122.77 acres at a density of 2.76 units per acre. The property is located on the east side of Yellow River, south of an existing creek, west side of Norris Lake Drive, west side of Pleasant Hill Road and the north side of Pleasant Hill Way at 1679, 1735, 1729, 1695, 1709, 1719 Norris Lake Drive; 8277 & 8455 Norris Lake Way; 8682 Pleasant Hill Road; and 8657, 8612, 8620, 8615, 6564, 8550, 8565 & 8581 Pleasant Hill Way. The property has approximately 1,664.96 feet of frontage along the north side of Pleasant Hill Way, approximately 156.12 feet of frontage along the west side of Pleasant Hill Road and approximately 277.77 feet of frontage along the west side of Norris Lake Drive. The property contains 122.77 acres and is hereby approved, (with conditions).

**Part 2:** That if this amendment is approved conditionally, and under the provisions of Section 27-7.3.9 of the DeKalb County Zoning Ordinance, as identified by the use of the term "Conditional" after the district designation in Part 1 above, the development and use of the above-described property shall be permitted only in compliance with the conditions and/or site plan as attached to this ordinance.

**Part 3:** That all ordinances or parts of ordinances in conflict with this ordinance are hereby repealed.

**Part 4:** This ordinance, hereby approved, does not authorize the violation of any Zoning District Regulations. District regulation variances can be approved in accordance with Chapter 27, Article VII, Division 5.

ADOPTED by the DeKalb County Board of Commissioners this	day of
2018.	
	Jeff Rader Presiding Officer Board of Commissioners DeKalb County, Georgia

Barbara H. Sanders, CCC Clerk to the Board of Commissioners and Chief Executive Officer DeKalb County, Georgia

ATTEST:

Z-18-1235046 2018-2450

#### FINAL CONDITIONS FOR Z-18-1235046 2018-2450

#### **REQUESTED BY APPLICANT:**

Application of D R Horton Crown, LLC to rezone property from R-85 (Residential Medium Lot) District to RSM (Small Lot Residential Mix) District to develop 339 single-family detached residences on 122.77 acres at a density of 2.76 units per acre.

#### PLANNING AND SUSTAINABILITY DEPARTMENT:

Approval w/Conditions. The proposed rezoning request from R-85 (Medium Lot Residential) District to RSM (Small Lot Residential Mix) District as originally requested is not compatible with adjacent and surrounding residential districts zoned and developed R-85. However, the RNC (Residential Neighborhood Conservation) District recommended by Planning Staff and depicted on the revised site plan submitted by the applicant allows greater flexibility for development by incorporating use of greenspace with natural features of the environment and allowing development standards compatible with adjacent residential properties and is consistent with recent Board policy. RNC developments are required to provide a legal mechanism for unified control of the entire parcel to be developed and a legal mechanism for the maintenance and protection of land held in common prior to the issuance of any land disturbance permit. The RNC District is consistent with the following DeKalb County 2035 Comprehensive Plan policies: Protect stable neighborhoods from incompatible development that could alter established residential development patterns and density; and Ensure that new development and redevelopment is compatible with existing residential areas. Therefore, the Department of Planning and Sustainability recommends, "Approval of a substitute RNC (Residential Neighborhood Conservation) District, per the following conditions":

- 1. Limit the use to no more than 321 single-family detached residences with recreational and greenspace area pursuant to development standards of an RNC (Residential Neighborhood Conservation) District zoned subdivision subject to review and approval by the Planning and Sustainability Department.
- 2. Provide a minimum of four (4) points of access per the revised site plan and subject to approval by the Transportation Division within the Department of Public Works.
- 3. Dedicate at no cost to DeKalb County 40 feet from centerline of right-of-way on Pleasant Hill Road; provide 6-foot sidewalks along frontage of Pleasant Hill Road and extend to intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 4. Dedicate at no cost to DeKalb County 27.5 feet from centerline of right-of-way on Pleasant Hill Way; provide 12-foot travel lane on the development side from centerline; 5-foot sidewalks; and street light on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 5. Dedicate at no cost to DeKalb County 35 feet from centerline of Norris Lake Drive; provide 6-foot sidewalks along frontage of Norris Lake Drive and extend to the intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed right-ofway as may be required by the Transportation Division within the Department of Public Works.
- 6. Provide a left turn lane on Pleasant Hill Road and onsite road improvements as required by the Transportation Division within the Department of Public Works.
- Provide pedestrian/bike access from the neighborhood into the park, as approved by the Parks and Recreation Department as may be required by the Transportation Division within the Department of Public Works.

#### 2018-2450

- 8. The heated floor area shall be no less than 1,200 square feet.
- 9. Each home shall have a minimum two-car garage (side entry garages where lot area allows).
- 10. Provide underground utilities.
- 11. Front and sides shall be sodded prior to the issuance of a Certificate of Occupancy.
- 12. No more than one (1) brick base monument sign shall be erected at each subdivision entrance. Sign area shall not exceed 32 square feet, excluding base and shall not exceed eight (8) feet in height.
- 13. The entrances to the subdivision shall be landscaped subject to the approval of the DeKalb County Arborist.
- 14. Any applicant for development within this approved RNC shall be required to provide a legal mechanism for unified control of the entire parcel to be developed for review and approval by the county attorney prior to the issuance of any land disturbance or building permit.

## **PLANNING COMMISSION:**

Approval w/Modified Conditions 7-1-0. M. Butts moved, J. Johnson seconded for approval of the rezoning from R-85 to RNC with Staff's conditions, with a revision to condition #2 that the site plan include three (3) access points. P. Womack, Jr. opposed.

#### **BOARD OF COMMISSIONERS:**

September 25, 2018, Approved with fourteen (14) Staff conditions, with an amendment to condition number 2, to provide three (3) access points, per the site plan.



# **DeKalb County Government**

Manuel J. Maloof Center 1300 Commerce Drive Decatur, Georgia 30030

# Agenda Item

File #: 2018-2450 9/25/2018

File Status: Preliminary Item

**Public Hearing: YES ⊠ NO □ Department:** Planning & Sustainability

**SUBJECT:** 

**COMMISSION DISTRICT(S):** 5 & 7

N17 D R Horton-Crown, LLC Z-18-1235046

**PETITION NO:** Z-18-1235046

**PROPOSED USE:** 339 Single-Family Detached Residences

LOCATION: Pleasant Hill Road, Pleasant Hill Way & Norris Lake Drive

PARCEL NO.: 16-228-01-003, 006, 007, 008, 013; 16-229-01-002; 16-252-02-001, 003 & 005; 16-253-02-

004, 005, 007, 008, 009, 011, 026 & 027

**INFORMATION CONTACT:** Marian Eisenberg

**PHONE NUMBER:** 404-371-4922

## **PURPOSE:**

To rezone property from R-85 (Residential Medium Lot) District to RSM (Small Lot Residential Mix) District to develop 339 single-family detached residences on 122.77 acres at a density of 2.76 units per acre. The property is located on the east side of Yellow River, south of an existing creek, west side of Norris Lake Drive, west side of Pleasant Hill Road and the north side of Pleasant Hill Way at 1679, 1735, 1729, 1695, 1709, 1719 Norris Lake Drive; 8277 & 8455 Norris Lake Way; 8682 Pleasant Hill Road; and 8657, 8612, 8620, 8615, 6564, 8550, 8565 & 8581 Pleasant Hill Way. The property has approximately 1,664.96 feet of frontage along the north side of Pleasant Hill Way, approximately 156.12 feet of frontage along the west side of Pleasant Hill Road and approximately 277.77 feet of frontage along the west side of Norris Lake Drive and contains 122.77 acres.

### **RECOMMENDATION:**

**COMMUNITY COUNCIL:** Deferral

**PLANNING COMMISSION:** Approval Conditional

PLANNING STAFF: Substitute Approval to RNC (Residential Neighborhood Conservation) District

**PLANNING STAFF ANALYSIS:** The proposed rezoning request from R-85 (Medium Lot Residential) District to RSM (Small Lot Residential Mix) District as originally requested is not compatible with adjacent and

File #: 2018-2450 9/25/2018

File Status: Preliminary Item

surrounding residential districts zoned and developed R-85. However, the RNC (Residential Neighborhood Conservation) District recommended by Planning Staff and depicted on the revised site plan submitted by the applicant allows greater flexibility for development by incorporating use of greenspace with natural features of the environment and allowing development standards compatible with adjacent residential properties and is consistent with recent Board policy. RNC developments are required to provide a legal mechanism for unified control of the entire parcel to be developed and a legal mechanism for the maintenance and protection of land held in common prior to the issuance of any land disturbance permit. The RNC District is consistent with the following DeKalb County 2035 Comprehensive Plan policies: Protect stable neighborhoods from incompatible development that could alter established residential development patterns and density; and Ensure that new development and redevelopment is compatible with existing residential areas. Therefore, the Department of Planning and Sustainability recommends **APPROVAL** of a substitute RNC (Residential Neighborhood Conservation) District on the subject site per the following attached conditions:

**PLANNING COMMISSION VOTE: 7-1-0**/ M. Butts moved, J. Johnson seconded for approval of the rezoning from R-85 to RNC with Staff's conditions, with a revision to condition #2 that the site plan include three (3) access points. P. Womack, Jr. opposed.

**COMMUNITY COUNCIL VOTE/RECOMMENDATION:** 5-2-2/Deferral to wait for comments from the Transportation Division.

#### Z-18-1235046 RECOMMENDED CONDITIONS

- 1. Limit the use to no more than 321 single-family detached residences with recreational and greenspace area pursuant to development standards of an RNC (Residential Neighborhood Conservation) District zoned subdivision subject to review and approval by the Planning and Sustainability Department.
- 2. Provide a minimum of four (4) points of access per the revised site plan and subject to approval by the Transportation Division within the Department of Public Works.
- 3. Dedicate at no cost to DeKalb County 40 feet from centerline of right-of-way on Pleasant Hill Road; provide 6-foot sidewalks along frontage of Pleasant Hill Road and extend to intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 4. Dedicate at no cost to DeKalb County 27.5 feet from centerline of right-of-way on Pleasant Hill Way; provide 12-foot travel lane on the development side from centerline; 5-foot sidewalks; and street light on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 5. Dedicate at no cost to DeKalb County 35 feet from centerline of Norris Lake Drive; provide 6-foot sidewalks along frontage of Norris Lake Drive and extend to the intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 6. Provide a left turn lane on Pleasant Hill Road and onsite road improvements as required by the Transportation Division within the Department of Public Works.
- 7. Provide pedestrian/bike access from the neighborhood into the park, as approved by the Parks and Recreation Department as may be required by the Transportation Division within the Department of Public Works.
- 8. The heated floor area shall be no less than 1,200 square feet.
- 9. Each home shall have a minimum two-car garage (side entry garages where lot area allows).
- 10. Provide underground utilities.
- 11. Front and sides shall be sodded prior to the issuance of a Certificate of Occupancy.
- 12. No more than one (1) brick base monument sign shall be erected at each subdivision entrance. Sign area shall not exceed 32 square feet, excluding base and shall not exceed eight (8) feet in height.

- 13. The entrances to the subdivision shall be landscaped subject to the approval of the DeKalb County Arborist.
- 14. Any applicant for development within this approved RNC shall be required to provide a legal mechanism for unified control of the entire parcel to be developed for review and approval by the county attorney prior to the issuance of any land disturbance or building permit.



# **DeKalb County Department of Planning & Sustainability**

# 330 Ponce De Leon Avenue, Suite 300 Decatur, GA 30030

(404) 371-2155 / plandev@dekalbcountyga.gov

Planning Commission Hearing Date: September 06, 2018, 6:30 P.M. Board of Commissioners Hearing Date: September 25, 2018, 6:30 P.M.

STAFF ANALYSIS

Case No.: 2018-2450/ Z-18-1235046 Agenda #: N.17

Location/Address: The east side of Yellow River, south Commission District: 5 Super District: 7

> of an existing creek, west side of Norris Lake Drive, west side of Pleasant Hill Road and the north side of Pleasant Hill Way at 1679, 1735, 1729, 1695,1709, 1719 Norris Lake Drive; 8277 & 8455 Norris Lake Way; 8682 Pleasant Hill Road; and 8657, 8612, 8620, 8615,

6564,8550, 8565, & 8581 Pleasant

Hill Way, Lithonia, Georgia.

Parcel ID: 16-228-01-006, 008, 013; 16-229-01-002; 16-252-02-001, 003, 005;

16-253-02-007, 009, 011, 026; and portions of 16-228-01-003 & 007; 16-253-02-

004, 005, 008, & 027

Request: To rezone property from R-85 (Residential Medium Lot) Districts to RSM (Small

Lot Residential Mix) District to develop 339 detached single-family residences.

**Property Owners:** D R Horton -Crown, LLC

Applicant/Agent: D R Horton -Crown, LLC

Acreage: 122.77 Acres

**Existing Land Use:** Primarily Undeveloped with some Single Family Detached Residences

**Surrounding Properties:** Single-Family detached residences/Pleasant Hill Park

**Adjacent & Surrounding** 

Zoning:

North, East, West & South: R-85 (Residential Medium Lot) District

**Comprehensive Plan:** Suburban Consistent X

Proposed Units: 339 Single-Family Residences	Existing: Scattered Single-Family Detached	
	Residences	
Proposed Lot Coverage: < 35% Per Lot	Existing Lot Coverage: N/A	

Prepared 9/18/2018 by: KFHILL Z-18-1235046 Page 1

BOC: 09/25/2018

#### **SUBJECT PROPERTY:**

The 122.77-acre site is primarily undeveloped and located along Pleasant Hill Road, Pleasant Hill Way and Norris Lake Drive. The site is heavily wooded with dense mature trees and shrubbery. A creek runs along the west and north property lines. Pleasant Hill Park is surrounded on three sides by the project site. Existing and surrounding land uses include single-family residences south of Pleasant Hill Way and west of Pleasant Hill Road. A few scattered single-family residences are north of Pleasant Hill Way. The site, adjacent and surrounding properties are zoned R-85 (Residential Medium Lot) District.

#### **PROJECT ANALYSIS:**

The revised site plan, stamped received September 12, 2018 by the Planning & Sustainability Department, is based on the Substitute Recommendation by Planning Staff for an RNC (Residential Neighborhood Conservation) District on the subject site. The revised site plan depicts 321 single-family detached residences at a density of 2.62 units per acre.

There are two (2) amenity areas and several pocket parks throughout the development. Four (4) access points to the development is proposed: one (1) on Pleasant Hill Road; two (2) on Pleasant Hill way; and one (1) on Norris Lake Drive. Staff notes that Chapter 14 of the Land Development Chapter of the DeKalb County Code requires a minimum of 4 access points for residential over 300 units. The revised site plan complies with this standard. Required buffers are depicted on the site plan adjacent to identified streams along the west and north property lines. Given the large number of proposed lots, the applicant submitted a traffic study conducted by CALYX Engineers & Consultants. The study concluded that all the affected traffic intersections are expected to operate adequately in the weekday peak hours, with or without the project traffic with the existing lane configuration or with the planned site driveways and traffic control. Per the chart below, the revised site plan depicts compliance with RNC standards except for the proposed interior side yard setback. If the RNC District is approved on the site, the revisions must be made during the Building Permitting (BP) process approved or seek a variance from the Zoning Board of Appeals (ZBOA).

Development	RNC Per Article 2.10	Proposed	Compliance
Standards			
Lot Area	6,000 Square Feet	6,000 Square Feet	Yes
	Article 5.2.3 Compatibility of new and adjacent lots:		Yes: provides 20 feet transitional buffer & new lots at least 80% width of adjacent lot in subdivision
Side Yard Setback	7.5 Feet	5 Feet with minimum 10 Feet separation between buildings	No. Revise site plan or apply for variance from the ZBOA (Zoning Board of Appeals)
Lot Width	60 Feet	60 Feet	Yes
Front Yard Setback	20 Feet	20 Feet	Yes
	30 Feet adjacent to R-85 along perimeter lots	30 Feet	Yes
Side yard along	20 Feet	None stated on revised site	Must comply or apply for a
street side on		plan.	variance from the ZBOA.
corner lot			
Rear Yard	20 Feet	60 Feet	Yes
Open Space	30%	31.40%	Yes

Prepared 9/18/2018 by: KFHILL

BOC: 09/25/2018

#### **ZONING ANALYSIS:**

The R-85 (Residential Medium Lot) District allows single-family detached residences on minimum 12,000 square foot lots. The most recent Board Policy in the area for single-family detached residential development is approval for the RNC (Residential Neighborhood Conservation) District on Pleasant Hill Road in the area pursuant to Z-18-22130. Per Sec. 2.10.2, the RNC (Residential Neighborhood Conservation) District was created to encourage residential development within the county that preserves unique environmental features and be consistent with the comprehensive land use plan. The RNC encompasses elements of the Green DeKalb Initiative by providing greenspace areas and preserving existing natural trees and vegetation. The goals of the RNC District regulations are: To conserve significant areas of useable greenspace within single-family neighborhoods in the rural and suburban character areas of the comprehensive plan; To provide a residential development that permits flexibility of design in order to promote environmentally sensitive and efficient use of land in compliance with the Code; To promote construction of accessible landscaped walking trails and bike paths both within subdivisions and where possible connected to neighboring communities, business, and facilities to reduce reliance on automobiles; To preserve natural features, specimen trees, historic buildings, archaeological sites and establish a sense of community; To improve water quality and reduce runoff and soil erosion by reducing the total amount of clearing, grading, and paving, within the total area of a development, and To encourage efficient community design that reduces infrastructure maintenance and public service costs borne by the county. The RNC zoning district has a minimum lot size of 6,000 square feet. However, the RNC zoning district requires a larger lot size and side yard setback on periphery lots abutting residential zoned property. This allows large sites with unique and natural characteristics to be compatible with existing adjacent residential properties. Therefore, Planning Staff believes the RNC District would be more appropriate for the site.

#### **IMPACT ANALYSIS:**

Section 27-7.3.5 of the Zoning Ordinance, "Standards and factors governing review of proposed amendments to the official zoning map" states that the following standards and factors shall govern the review of all proposed amendments to the Official Zoning Map.

- A. Whether the zoning proposal is in conformity with the policy and intent of the comprehensive plan. The substitute rezoning proposal to the RNC (Neighborhood Conservation) District is consistent with plan policy to "Ensure that new development and redevelopment is compatible with existing residential areas".
- B. Whether the zoning proposal will permit a use that is suitable in view of the use and development of adjacent and nearby properties. The RNC zoning district would require single-family residences with compatible lot sizes on peripheral lots abutting other residential zoned properties. This standard permits a use that is suitable in view of adjacent and nearby residential development.
- C. Whether the property to be affected by the zoning proposal has a reasonable economic use as currently zoned. The site has a reasonable economic use as currently zoned R-85 (Residential Medium Lot) District albeit constrained by environmental features. However, the RNC zoning district with its combined greenspace and natural features may provide more opportunity for economic development.
- **D.** Whether the zoning proposal will adversely affect the existing use or usability of adjacent or nearby property: The substitute RNC zoning district may not adversely affect the use or usability of adjacent or nearby residential properties.
- E. Whether there are other existing or changing conditions affecting the use and development of the property, which give supporting grounds for either approval or disapproval of the zoning proposal. The intent of the RNC zoning district is to provide a residential development that permits flexibility of design in order to promote environmentally sensitive and efficient use of land in compliance with the Zoning Code. The site has natural and

Prepared 9/18/2018 by: KFHILL Page 3 Z-18-1235046

BOC: 09/25/2018

physical features that qualify this site for RNC Development. The site has dirt, gravel, rocks with dense shrubbery and mature hardwood trees located throughout with a creek that runs west and north of the site.

- F. Whether the zoning proposal will adversely affect historic buildings, sites, districts, or archaeological resources. It appears there are no historic buildings, sites, districts, or archaeological resources located on the property or in the surrounding area.
- G. Whether the zoning proposal will result in a use which will or could cause an excessive or burdensome use of existing streets, transportation facilities, utilities, or schools. Given that Pleasant Hill Road is a minor arterial, it should be able to absorb additional traffic resulting from the proposed subdivision. Traffic impact may be also lessened by installation of traffic improvements such as a deceleration lane at the subdivision entrance. Given existing residential properties in the area, the request should not cause an excessive burden on utilities. The proposed development may impact school enrollment. If the development is fully constructed with 339 units as originally proposed for the RSM District, it is expected to generate 166 students: 42 at Rock Chapel ES, 20 at Lithonia MS, 29 at Lithonia HS, 70 at other DCSD schools and 5 in private schools. The elementary and middle schools have capacity for additional students. The high school may become over-crowded with this development and require additional capacity to be added. An alternative RNC district with fewer lots (321) should reducing area traffic and school enrollment in area schools.
- H. Whether the zoning proposal adversely impacts the environment or surrounding natural resources.

The RSM (Small Lot Residential Mix) district has no requirements for incorporating natural resources into the site. However, a rezoning to the RNC (Neighborhood Conservation) District has a positive impact on the environment and surrounding natural resources by incorporating the natural resources (rock, streams, wetlands) in the overall design of the proposed subdivision.

## STAFF RECOMMENDATION: SUBSTITUTE APPROVAL TO RNC (Residential Neighborhood Conservation) District

The proposed rezoning request from R-85 (Medium Lot Residential) District to RSM (Small Lot Residential Mix) District as originally requested is not compatible with adjacent and surrounding residential districts zoned and developed R-85. However, the RNC (Residential Neighborhood Conservation) District recommended by Planning Staff and depicted on the revised site plan submitted by the applicant allows greater flexibility for development by incorporating use of greenspace with natural features of the environment and allowing development standards compatible with adjacent residential properties and is consistent with recent Board policy. RNC developments are required to provide a legal mechanism for unified control of the entire parcel to be developed and a legal mechanism for the maintenance and protection of land held in common prior to the issuance of any land disturbance permit. The RNC District is consistent with the following DeKalb County 2035 Comprehensive Plan policies: Protect stable neighborhoods from incompatible development that could alter established residential development patterns and density; and Ensure that new development and redevelopment is compatible with existing residential areas. Therefore, the Department of Planning and Sustainability recommends APPROVAL of a substitute RNC (Residential Neighborhood Conservation) District on the subject site per the following recommended conditions:

- 1. Limit the use to no more than 321 single-family detached residences with recreational and greenspace area pursuant to development standards of an RNC (Residential Neighborhood Conservation) District zoned subdivision subject to review and approval by the Planning and Sustainability Department.
- 2. Provide a minimum of four (4) points of access per the revised site plan and subject to approval by the Transportation Division within the Department of Public Works.

Prepared 9/18/2018 by: KFHILL BOC: 09/25/2018

- 3. Dedicate at no cost to DeKalb County 40 feet from centerline of right-of-way on Pleasant Hill Road; provide 6foot sidewalks along frontage of Pleasant Hill Road and extend to intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 4. Dedicate at no cost to DeKalb County 27.5 feet from centerline of right-of-way on Pleasant Hill Way; provide 12foot travel lane on the development side from centerline; 5-foot sidewalks; and street light on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 5. Dedicate at no cost to DeKalb County 35 feet from centerline of Norris Lake Drive; provide 6-foot sidewalks along frontage of Norris Lake Drive and extend to the intersection of Norris Lake Drive/Humphries at Pleasant Hill Road; provide 4-foot bike lanes; and street lights on back of curb within the proposed right-of-way as may be required by the Transportation Division within the Department of Public Works.
- 6. Provide a left turn lane on Pleasant Hill Road and onsite road improvements as required by the Transportation Division within the Department of Public Works.
- 7. Provide pedestrian/bike access from the neighborhood into the park, as approved by the Parks and Recreation Department as may be required by the Transportation Division within the Department of Public Works.
- 8. The heated floor area shall be no less than 1,200 square feet.
- 9. Each home shall have a minimum two-car garage (side entry garages where lot area allows).
- 10. Provide underground utilities.
- 11. Front and sides shall be sodded prior to the issuance of a Certificate of Occupancy.
- 12. No more than one (1) brick base monument sign shall be erected at each subdivision entrance. Sign area shall not exceed 32 square feet, excluding base and shall not exceed eight (8) feet in height.
- 13. The entrances to the subdivision shall be landscaped subject to the approval of the DeKalb County Arborist.
- 14. Any applicant for development within this approved RNC shall be required to provide a legal mechanism for unified control of the entire parcel to be developed for review and approval by the county attorney prior to the issuance of any land disturbance or building permit.

Z-18-1235046

#### **Attachments:**

- 1. Department and Division Comments
- 2. Application
- 3. Site Plan
- 4. Zoning Map
- 5. Land Use Plan Map
- 6. Aerial Photograph

Prepared 9/18/2018 by: KFHILL Page 5

#### **NEXT STEPS**

Following an approval of this request, one or several of the following may be required:



- Land Disturbance Permit (Required for of new building construction on non-residential properties, or land disturbance/improvement such as storm water detention, paving, digging, or landscaping.)
- **Building Permit** (New construction or renovation of a building (interior or exterior) may require full plan submittal or other documentation. Zoning, site development, watershed and health department standards will be checked for compliance.)



- **Certificate of Occupancy** (Required prior to occupation of a commercial space and for use of property for any business type. The issuance follows the review of submitted plans if required based on the type occupancy.)
- Plat Approval (Required if any parcel is being subdivided, re-parceled, or combined. Issued "administratively"; no public hearing required.)



- **Sketch Plat & Final Plat Approval** (Required for the subdivision of property into three lots or more. Requires a public hearing by the Planning Commission.)
- Overlay Review (Required review of development and building plans for all new construction or exterior modification of building(s) located within a designated overlay district.)
- **Historic Preservation** (A Certificate of Appropriateness is required for any proposed changes to building exteriors or improvements to land when located within the Druid Hills or the Soapstone Geological Historic Districts. Historic Preservation Committee public hearing may be required.)



- **Variance** (Required to seek relief from any development standards of the Zoning Ordinance. A public hearing and action by the Board of Appeals are required for most variances.)
- Minor Modification (Required if there are any proposed minor changes to zoning conditions that were approved by the Board of Commissioners. The review is administrative if the changes are determined to be minor as described by Zoning Code.)
- **Major Modification** (Required submittal of a complete zoning application for a public hearing if there are any proposed major changes to zoning conditions that were approved by the Board of Commissioner for a prior rezoning.)
- **Business License** (Required for any business or non-residential enterprise operating in Unincorporated DeKalb County, including in-home occupations).
- **Alcohol License** (Required permit to sell alcohol for consumption on-site or packaged for off-site consumption. Signed and sealed distance survey is required. Background checks will be performed.)

Each of the approvals and permits listed above requires submittal of application and supporting documents, and payment of fees. Please consult with the appropriate department/division.

#### SEPTEMBER 2018 REZONING AGENDA - TRANSPORTATION COMMENTS

- N1. Lawrenceville Hwy is a major arterial on a state route. Dedicate right of way at least 50 from centerline. Install sidewalks along property frontage (ensure sidewalks are within right of way). GDOT review and permits required. Street lights required 1 foot behind sidewalks on right of way.
- N2. Clairmont Road is a major arterial on a state route. Dedicate right of way at least 50 from centerline. GDOT review and permits required.
- N3. Briarcliff Road is a minor arterial and state route. GDOT review and permits required. No access allowed onto Briarcliff Road.
- N4. No Comments.
- N5. No Comments.
- N6. No Comments.
- N7. No Comments.
- N8 & N9. Columbia Drive is a minor arterial. See Section 5.4.3 of the Zoning Code for required improvements and Section 14-190 of the Land Development Code for required infrastructure improvements at time of permit. (The Zoning Code trumps the Land Development Code- but when the Zoning Code is silent, the Land Development Code takes effect. Overlay Districts trump both of the above.) 40 feet right of way dedication from centerline. 6-foot sidewalks, 4-foot bike lanes. Street lights behind the sidewalk within right of way. As shown in the application, interior roads must be private.
- N10. Candler Road is a major arterial and a state route. GDOT review and permits required. Kelly Lake Road is a local road. See Section 5.4.3 of the Zoning Code for required improvements and Section 14-190 of the Land Development Code. (The Zoning Code trumps the Land Development Code- but when the Zoning Code is silent, the Land Development Code takes effect. Overlay Districts trump both of the above.) Right of way dedication of 50 from centerline on Candler Road, 6-foot sidewalks. Right of way dedication on Kelly Lake Road 27.5 feet from centerline, 5-foot sidewalks. Extend sidewalks along Kelly Lake Road within existing right of way to Candler Road. Street Lights required on back of sidewalk within right of way along both frontages. See Section 5.4.3 of the Zoning Code for required improvements and Section 14-190 of the Land Development Code for required infrastructure improvements at time of permit. (The Zoning Code trumps the Land Development Code- but when the Zoning Code is silent, the Land Development Code takes effect.)
- N11. Treadway Road is classified local. See Section 5.4.3 of the Zoning Code for required improvements and Section 14-190 of the Land Development Code for required infrastructure improvements at time of permit. (The Zoning Code trumps the Land Development Code- but when the Zoning Code is silent, the Land Development Code takes effect. Overlay Districts trump both of the above.) Public local roads require a 27.5 foot right of way from the centerline (for a total of 55 feet), 5-foot sidewalks, 5-foot landscape strip and street lights within the right of way. The right of way width show on the application does not seem to meet the 55 feet for the interior streets. Cul-de-sac appears to be substandard also. These will need to be corrected prior to permitting and will impact storm detention, setbacks, etc.

- N12. McClendon is a collector street. Allow only one standard size commercial curb cut on McClendon Dr. Install sidewalks along property frontage. Street lights required behind sidewalk within right of way at permitting.
- N13. Memorial Drive is a major arterial and a state route. GDOT review and permits required.
- N14. Memorial Drive is a major arterial and a state route. GDOT review and permits required. Eliminate a curb cut on 6158 and restore streetscape.
- N15. Snapfinger Road is a major arterial. Site limited to right in/right out access point.
- N16. Rockbridge Road is a minor arterial. See Section 5.4.3 of the Zoning Code for required improvements and Section 14-190 of the Land Development Code for required infrastructure improvements at time of permit. (The Zoning Code trumps the Land Development Code- but when the Zoning Code is silent, the Land Development Code takes effect. Overlay Districts trump both of the above.) 40 feet right of way dedication from centerline. 6-foot sidewalks, 4-foot bike lanes. Street lights behind the sidewalk within right of way. Construct sidewalks along Rockbridge Road to Allgood Circle within right of way. Limited to one access point onto Rockbridge Road.
- N17. Bermuda Road is a collector road. See Section 5.4.3 of the Zoning Code for required improvements and Section 14-190 of the Land Development Code for required infrastructure improvements at time of permit. (The Zoning Code trumps the Land Development Code- but when the Zoning Code is silent, the Land Development Code takes effect. Overlay Districts trump both of the above.) 35 feet right of way dedication from centerline. 6-foot sidewalks, 4-foot bike lanes. Street lights behind the sidewalk within right of way. Add roundabout at the intersection of Stewart Mill Road and Bermuda Road. Gordon Burkett at Keep DeKalb Beautiful is working on the concept for this project. Add sidewalks and street lights along Bermuda Road (within right of way) to the intersection of Stewart Mill Road. Complete all requirements of GRTA's notice of decision that are within DeKalb County. Design to restrict truck movements from using Stewart Mill Road to get to Rockbridge Road.
- N18. Norris Lake is a collector road. Pleasant Hill is a minor arterial. Pleasant Hill Way is a local road. Pleasant Hill Way appears to be public in some areas where the development is proposed. I assume they are planning a right of way abandonment. Provide ped/bike access from the neighborhood into the park, as approved by the Parks and Recreation Department. Frontage on Pleasant Hill Way must be improved to Code also. 339 lots requires a traffic study be completed prior to zoning. Traffic study should include the access points and the intersection of Norris Lake Road/Humphries at Pleasant Hill Road. Left turn lane required on Pleasant Hill Road. Add sidewalks along frontage of Norris Lake Road and extend to the intersection of Norris Lake Road/Humphries at Pleasant Hill Road. Add sidewalks along frontage of Pleasant Hill Road and extend to the intersection of Norris Lake Road/Humphries at Pleasant Hill Road. Consider moving the roundabout to Pleasant Hill Road. Request deferral until the study is received. Norris Lake requires right of way dedication of 35' from centerline, 6-foot sidewalks, 4-foot bike lanes and street lights on back of curb within the proposed right of way. Pleasant Hill Road requires right of way dedication of 40' from centerline, 6-foot sidewalks, 4-foot bike lanes and street lights on back of curb within the proposed right of way. Pleasant Hill Way right of way dedication of 27.5' from centerline, 12-foot travel lane on the development side from centerline, 5 foot sidewalks and street light on back of curb within the proposed right of way.

- N20 & N21. Rock Chapel Road is a major arterial and state route. GDOT review and permits required at permitting. See Section 5.4.3 of the Zoning Code for required improvements and Section 14-190 of the Land Development Code for required infrastructure improvements at time of permit. (The Zoning Code trumps the Land Development Code- but when the Zoning Code is silent, the Land Development Code takes effect. Overlay Districts trump both of the above.)
- N22. S. Stone Mountain Lithonia Road is a minor arterial. Add sidewalks and street lights behind sidewalks and within right of way along property frontage and dedicate 40 feet of right of way from centerline.
- N23. Stephenson Road is a collector road. Dedicate 35 feet of right of way from centerline, add sidewalks and street lights behind sidewalks and within right of way.
- N24. Briarcliff Road is a minor arterial and a state route. GDOT has already permitted the right in only driveway. The right-out driveway was probably not allowed due to restricted sight distance when exiting due to the curve (trying to verify with GDOT). No other comments.



# DEKALB COUNTY GOVERNMENT PLANNING DEPARTMENT DISTRIBUTION FORM

The following areas below may warrant comments from the Development Division. Please respond

accordingly as the issues relate to the proposed request and the site plan enclosed as it relates to Chapter 14. You may address applicable disciplines.

#### **DEVELOPMENT ANALYSIS:**

#### Transportation/Access/Row

Consult the Georgia DOT as well as the DeKalb County Transportation Department prior to land development permit. Verify widths from the centerline of the roadways to the property line for possible right-of-way dedication. Improvements within the right-of-way may be required as a condition for land development application review approval. Safe vehicular circulation is required. Paved off-street parking is required.

### Storm Water Management

Compliance with the Georgia Stormwater Management Manual, DeKalb County Code of Ordinances 14-40 for Stormwater Management and 14-42 for Storm Water Quality Control, to include Runoff Reduction Volume where applicable is required as a condition of land development permit approval. Use Volume Three of the G.S.M.M. for best maintenance practices. Use the NOAA Atlas 14 Point Precipitation Data set specific to the site. The site is a stormwater hotspot.

#### • Flood Hazard Area/Wetlands

The presence of FEMA Flood Hazard Area was indicated in the County G.I.S. mapping records for the site; and should be noted in the plans at the time of any land development permit application. Encroachment of flood hazard areas require compliance with Article IV of Chapter

14 and FEMA	floodplain	regulations.	Detention	/water	quality	ponds	are no	t allowed	in	the
floodplain.	•	•			•	•				

#### • Landscaping/Tree Preservation

Landscaping and tree preservation plans for any building, or parking lot must comply with DeKalb County Code of Ordinances 14-39 and are subject to approval from the County Arborist.

#### • Tributary Buffer

State water buffer was reflected in the G.I.S. records for the site. Typical state waters buffer have a 75' undisturbed stream buffer and land development within the undisturbed creek buffer is prohibited without a variance per DeKalb County Code of Ordinances 14-44.1.

#### • Fire Safety

<u>Plans for land development permit must comply with Chapter 12 DeKalb County Code for fire protection and prevention.</u>

#### **DeKalb County School District Zoning Review Comments**

Analysis Date: 8/10/2018

Submitted to: **Dekalb County**  Case #: 2018-2450/Z-18-1235046

Name of Development:

Red Stag (Pleasant Hill Way)

Location:

Pleasant Hill Road East of Pleasant Hill Trail

Description:

339 detached single-family residences on primarily undeveloped land with a few single-family

detached residences

Impact of Development:

When fully constructed, this development would be expected to house 166 students: 42 at Rock Chapel ES, 20 at Lithonia MS, 29 at Lithonia HS, 70 at other DCSD schools and 5 in private schools. The elementary and middle schools have capacity for additional students. The high school may become over-crowded with this development and require additional capacity to be

	Rock Chapel	ĺ		Other DCSD	Private	
<b>Current Condition of Schools</b>	ES	Lithonia MS	Lithonia HS	Schools	Schools	Total
Capacity	713	1,188	1,416			
Portables	0	0	0			
Enrollment (Fcst. Oct. 2018)	500	1,138	1,409			
Seats Available	213	50	7			
Utilization (%)	70.1%	95.8%	99.5%			
New students from development	42	20	29	70	5	166
New Enrollment	542	1,158	1,438			
New Seats Available	171	30	-22			
New Utilization	76.0%	97.5%	101.6%			

	Attend Home	Attend other	Private	
Yield Rates*	School	DCSD School	School	Total
Elementary	0.125344	0.092908	0.007372	0.225624
Middle	0.060198	0.047279	0.002826	0.110303
High	0.085487	0.065970	0.003932	0.155389
Total	0.2710	0.2062	0.0141	0.4913
Student Calculations				
Proposed Units 339	]			
Unit Type SF				
Cluster Lithonia	<u>_</u>			
	Attand Hama	Attend other	Private	
Units x Yield	School	DCSD School	School	Total
				70.40
Elementary	42.49	31.50	2.50	76.49
Middle	20.41	16.03	0.96	37.40
,				
Middle	20.41	16.03	0.96	37.40
Middle High	20.41 28.98 <b>91.88</b>	16.03 22.36 <b>69.89</b>	0.96 1.33 <b>4.79</b>	37.40 52.67
Middle High <b>Total</b>	20.41 28.98 <b>91.88</b> Attend Home	16.03 22.36 <b>69.89</b> Attend other	0.96 1.33 4.79	37.40 52.67 <b>166.56</b>
Middle High Total  Anticipated Students	20.41 28.98 91.88 Attend Home School	16.03 22.36 <b>69.89</b> Attend other DCSD School	0.96 1.33 4.79 Private School	37.40 52.67 <b>166.56</b>
Middle High  Total  Anticipated Students Rock Chapel ES	20.41 28.98 91.88 Attend Home School	16.03 22.36 <b>69.89</b> Attend other DCSD School	0.96 1.33 4.79	37.40 52.67 <b>166.56</b> <b>Total</b>
Middle High Total  Anticipated Students	20.41 28.98 91.88 Attend Home School	16.03 22.36 <b>69.89</b> Attend other DCSD School	0.96 1.33 4.79 Private School	37.40 52.67 166.56

<sup>\*</sup>Comparable Developments Method Used





## DEKALB COUNTY GOVERNMENT PLANNING DEPARTMENT DISTRIBUTION FORM

NOTE: PLEASE RETURN ALL COMMENTS VIA EMAIL OR FAX TO EXPEDITE THE PROCESS TO MADOLYN SPANN <u>MSPANN@DEKALBCOUNTYGA.GOV</u> OR JOHN REID <u>JREID@DEKALBCOUNTYGA.GOV</u>

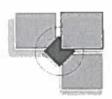
## **COMMENTS FORM:**

	BLIC WORKS TRAI 50/2 - 18-1 <sup>035046</sup> Parcel	16-900/	01-1006	008, 013 17.009.011.024	
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Lithonia	, Ga.				
		Adjacent Roadway	(s):		
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	(classification)		(-1	16 - 11 - 1	
	(classification)		(cias	sification)	
	Capacity (TPD)	(	Capacity (TPD)		
	Latest Count (TPD)	L	atest Count (TPD)		
	Hourly Capacity (VPH)Peak Hour. Volume (VPH)		Hourly Capacity (V		_
	Existing number of traffic lan		Peak Hour. Volume Existing number of	traffic lancs	•
	Existing right of way width			y width f traffic lanes	
	Proposed number of traffic la Proposed right of way width	nes	Proposed number o Proposed right of w	of traffic lanes	-
	-				-
Please provide addition	al information relating to the fo	ollowing statement.			
cnerate an average of a actor. Based on the ab	nducted by the Institute of Trai lifteen (15) vehicle trip end (VT ove formula, thesquar peak hour vehicle trip ends.	E) per 1, 000 squai	e feet of floor area	, with an eight (8%)	percent peak hou
eak hour factor. Base maximum ofunit	, on the other hand, would gen d on the above referenced form s per acres, and the given fact ( _ peak hour vehicle trip end wo	ula, the (Single that the project site	gle Family Resident is approximately	tial) District designa acres in land ar	tion which allows ca. daily
COMMENTS:				•	
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## DeKalb County Department of Planning & Sustainability

Michael L. Thurmond **Chief Executive Officer**  Andrew A. Baker, AICP Director



DE DE DERALIS COUNTY, GEORGIA
JUN 2 0 2018 Z/CZ No. 7-18-13350 40 Filling Fee:
Date Received: Application No.:
Applicant: D.R. Honon - Crown, LLC E-Mail: JRCoombe@drhorton.com
Applicant Mailing Address: 1371 Dogwood Drive SW, Convers, GA 30012
Applicant Phone: (470) 774-4884 Fax: 1 (866) 658-1753
Owner(s): D.R. Horton - Crown, LLC E-Mail: JRCoombe@drhorton.com (If more than one owner, attach as Exhibit "A")
Owner's Mailing Address: 1371 Dogwood Drive SW, Convers, GA 30012
Owner(s) Phone: (470) 774-4884 Fax: 1 (866) 658-1753
Address/Location of Subject Property: Located off Pleasant Hill Way
228/229/252  District(s): 16th Land Lot(s): 253/257/258 Block: 01/02 Parcel(s: See Letter of Application
Acreage: 122.77 Commission District(s): District 5
Present Zoning Category: R-85 Proposed Zoning Category: RSM
Present Land Use Category: Suburban
PLEASE READ THE FOLLOWING BEFORE SIGNING
This form must be completed in its entirety before the Planning Department accepts it. It must include the attachments and filing fees identified on the attachments. An application, which lacks any of the required attachments, shall be determined as incomplete and shall not be accepted.
Disclosure of Campaign Contributions  In accordance with the Conflict of Interest in Zoning Act, O.C.G.A., Chapter 36-67A, the following questions must be answered:  Have you the applicant made \$250 or more in campaign contributions to a local government official within two years immediately preceding the filling of this application? Yes X No
If the answer is yes, you must file a disclosure report with the governing authority of DeKalb County showing;
<ol> <li>The name and official position of the local government official to whom the campaign contribution was made.</li> </ol>
<ol><li>The dollar amount and description of each campaign contribution made during the two years</li></ol>
immediately preceding the filing of this application and the date of each such contribution.  The disclosure must be filed within 10 days after the application is first filed and must be submitted to the C.E.O. and the Board of Commissioners, DeKalb County, 1300 Commerce Drive, Decatur, Ga. 30030.  SIGNATURE OF APPLICANT / DATE  Jay Robert Coglible. Jr., on behalf of D.R. Horton - Crown, LLC  Check One: Owner X Agent  330 West Ponce de Leon Avenue – Suites 100-500 – Decatur, Georgia – 30030  [voice] 404.371.2155 – [Planning Fax] (404) 371-4556 [Development Fax] (404) 371-3007  Web Address http://www.dekalbcountyga.gov/planning  Email Address: planninganddevelopment@dekalbcountyga.gov  Page 1 of 3

"WE PROVIDE SOLUTIONS"

6/18/2018

Mr. Andrew A. Baker Director **DeKalb County Planning & Sustainability** 330 W. Ponce de Leon Ave Decatur, GA 30030

#### Re: **Letter of Application - Red Stag - Proposed 339 Lots**

± 122.77 Acres of property located along Norris Lake Drive (1679, 1735, 1695, 1735) and Pleasant Hill Way within Land Lots 228, 229, 253, 252, 257, 258, 16th District, DeKalb County, Georgia, and identified as tax parcels 16 228 01 003, 16 228 01 006, 16 228 01 007, 16 228 01 008, 16 228 01 013, 16 229 01 002, 16 252 02 001, 16 252 02 003, 16 252 02 005, 16 253 02 004, 16 253 02 005, 16 253 02 007, 16 253 02 008, 16 253 02 009, 16 253 02 011, 16 253 02 026, 16 253 02 027 (the "Property")

Planners and Engineers Collaborative, Inc. Project No. 16309.00

#### Dear Mr. Baker:

Please accept this letter with the application for the above referenced project on behalf of D.R. Horton - Crown, LLC ("D.R. Horton") in support of its Application to Amend Official Zoning Map of DeKalb County, Georgia (the "Application"). D.R. Horton seeks rezoning of the Property from its present R-85 classification to the RSM singlefamily detached classification for purposes of development as a subdivision including a mixture of lot and product sizes.

The Property is owned by D.R. Horton and consists of approximately 122.77 acres of predominantly undeveloped land located along Pleasant Hill Road and Norris Lake Drive. The Property is designated as "Suburban" in the 2035 Comprehensive Plan, which supports the zoning of the property for the RSM zoning classification. Tracts immediately surrounding the Property have been developed to include single-family residences, with the exception of two parcels, which are zoned commercial and located at the intersection of Pleasant Hill Road and Norris Lake Drive. The Property is surrounded on the north, east and south by tracts similarly identified as "Suburban" in the 2035 Comprehensive Plan, with the exception of one unimproved parcel located on the southern boundary of the Property, which is identified as "Conservative/Open Space" and known as the Pleasant Hill Park. The tracts located across the Yellow River from the western boundary of the Property are designated as "Industrial" on the 2035 Future Land Use Map. Thus, the proposed development is compatible with the surrounding area.

The proposal is to construct 339 single family detached lots on the Property. Our plan exceeds the amount of open space required without needing any density bonus. The Property is well under the RSM density allowances at 2.76 lots per acre. There is a mixture of homes throughout the site with varying lot sizes to be able to offer different price points as well as product choices. The project would be constructed as a master planned development. Within this development, there would be all new upgrades to the frontages of the Property with new landscaping, sidewalks, and street lights. The plan would also provide buffering to all surrounding sites. In addition, traffic improvements would be provided for the development and area. Currently, Pleasant Hill Road and Pleasant Hill Way are poorly aligned, creating a dangerous intersection. The proposal would include the rerouting and creation of a new Tintersection to correct the skew issue of the existing drive. The merits of the proposed development are more

D.R. Horton – Crown, LLC Project No. 16309.00 6/18/2018



particularly described in the Impact Analysis submitted herewith.<sup>1</sup> Please note that footnote #1 hereto contains key issues, challenges and notices that are expressly made and called to the attention of the addressee and DeKalb County, Georgia.

This proposal would provide much needed new housing to an area that has not had much new construction in recent years. The new homes would vary in size and price providing a great diversity to the neighborhood. The 122.77 acres has beautiful scenery from the back part of the Property that would be protected near the river and creeks. The price points of the new homes would vary and help to increase home values in the area with new construction available to this area. There would be master amenities that would include swimming pools, a clubhouse, a picnic area, outdoor sport courts and games. There will be a master HOA to govern each of the outside maintenance and amenities.

The proposed subdivision of the singe family detached homes under the RSM category is consistent with the intent of the land use, the nearby homes, and the price points for homes in the area. The development is consistent with the 2035 Comprehensive Plan and provides an appropriate development compatible with other single-family detached communities.

The DeKalb County Zoning Ordinance sets forth the various requirements applicable to requests for zoning changes. In support of the Application, D.R. Horton submits the following documents (together with a flash drive containing electronic copies thereof):

- Application to Amend Official Zoning Map of DeKalb County, Georgia (including the Disclosure of Campaign Contributions);
- 2. This Letter of Application;
- 3. Impact Analysis;
- 4. Site Plan (4 copies 24" x 36," folded; and 4 copies 8.5" x 11");

<sup>1</sup> D.R. Horton hereby notifies DeKalb County of its constitutional concerns with respect to the Application. Specifically, if the Board of Commissioners denies the Application in whole or in part, then the Property does not have a reasonable economic use under the DeKalb County Zoning Ordinance, as the same is amended from time to time (the "Zoning Ordinance"). Moreover, the Application meets the test set out by the Georgia Supreme Court to be used in establishing the constitutional balance between private property rights and zoning and planning as an expression of the government's police power. See Guhl vs. Holcomb Bridge Road, 238 Ga. 322 (1977). If the Board of Commissioners denies the Application in whole or in part, such an action will deprive D.R. Horton of the ability to use the Property in accordance with its highest and best use. Similarly, if the Board of Commissioners amends the zoning of the Property to some classification other than the RSM zoning district without D.R. Horton's consent, or if the Board of Commissioners limits its approval by attaching conditions to such approval affecting the Property or the use thereof without D.R. Horton's consent, then such approval would deprive D.R. Horton of any reasonable use and development of the Property. Any such action is unconstitutional and will result in a taking of property rights in violation of the just compensation clause of the Constitution of the State of Georgia (see Ga. Const. 1983, Art. I, § 3, para. 1(a)), and the just compensation clause of the Fifth Amendment to the United States Constitution (see U.S. Const. Amend. 5). To the extent that the Zoning Ordinance allows such an action by the Board of Commissioners, the Zoning Ordinance is unconstitutional. Any such denial or conditional approval would discriminate between D.R. Horton and the owners of similarly situated property in an arbitrary, capricious, unreasonable and unconstitutional manner in violation of Article I, Section I, Paragraph 2 of the Constitution of the State of Georgia and the Equal Protection Clause of the Fourteenth Amendment to the Constitution of the United States. Finally, a failure to grant the Application or a conditional approval of the Application (with conditions not expressly approved by D.R. Horton) would constitute a gross abuse of discretion and would constitute an unconstitutional violation of D.R. Horton's rights to substantive and procedural due process as guaranteed by the Constitution of the State of Georgia (see Ga. Const. 1983, Art. I, § 1, para. 1) and the Fifth and Fourteenth Amendments of the Constitution of the United States (see U.S. Const. Amend. 5 and 14). D.R. Horton further challenges the constitutionality and enforceability of the Zoning Ordinance (together with all applicable land use and zoning maps, comprehensive plans, zoning regulations, conditions and site plans), in whole and in relevant part, for lack of objective standards, guidelines or criteria limiting the Board of Commissioners's discretion in considering or deciding applications for zoning amendments. Nevertheless, D.R. Horton remains optimistic that the Board of Commissioners's consideration of the Application will be conducted in a constitutional manner.

D.R. Horton – Crown, LLC Project No. 16309.00 6/18/2018



- 5. Sealed Boundary Survey and metes and bounds legal description of the Property;
- 6. Building Elevations (renderings or details of materials proposed for compliance to Article 5);
- 7. Application Fee in the amount of \$500.00.

Please note, D.R. Horton hosted and held the mandatory community meeting on June 6, 2018 at the Stonecrest Library located at 3123 Klondike Road, Lithonia, Georgia 30038. Attached are the required Sign In Sheets from that community meeting.

D.R. Horton is the applicant, owner and developer of this ± 122.77 tract. D.R. Horton is one of the largest and most reliable developers in our nation today, and D.R. Horton has all the staying power and strength to properly, carefully and thoughtfully develop this wonderful property, which D.R. Horton already owns. There simply are not many other companies or entities who have the capacity, ability or strength to carry out this large, high quality development. We look forward to working with DeKalb County and our neighbors to achieve a successful outcome.

D.R. Horton expressly calls to DeKalb County's attention the information set forth in footnote #1.

Sincerely,

Planners and Engineers Collaborative, Inc.

Kenneth J. Wood, P.E., LEED AP

President For the Firm



May 21, 2018

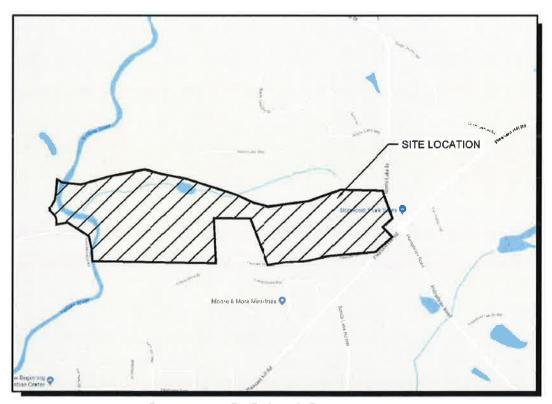
RE: NOTICE OF PRE-SUBMITTAL COMMUNITY MEETING FOR ZONING MATTERS

Dear Property Owner:

D.R. Horton is requesting a rezoning for predominantly undeveloped property located in unincorporated DeKalb County along Norris Lake Drive and Pleasant Hill Road, as shown below. The subject properties are currently zoned R-85. D.R. Horton desires to rezone the properties to RSM to develop a residential community.

Due to this request, D.R. Horton will hold a Pre-Submittal Community Meeting on **Wednesday**, **June 6**, **2018** at **7:00 pm** at the **Stonecrest Library**, **3123 Klondike Road**, **Lithonia**, **GA 30038**. This is an informational meeting designed to provide the community with the opportunity to learn of the zoning request and ask any questions of the property owner.

#### Site Location Map Showing Land Subject to Rezoning



SITE LOCATION MAP

NOT TO SCALE

If you have any questions or concerns leading up to the meeting, feel free to reach out to:

Richard Hathcock
Assistant Land Development Project Manager
D.R. Horton
1371 Dogwood Drive SW
Conyers, GA 30012
678-509-0519 (phone)
rhathcock@drhorton.com (email)

MEETING SIGN-IN SHEET

Project: D.R. Horton / 122 t Acres Meeting Date: 5/6 / 18

Facilitator: James M. Ney Location: North Add Port

Name Address Phone E-Mail James M Ney 569 Hackney Dr. 770/983-1934 July & lungw. 600 Mariette, Sa 30067 554 Hack ney Dr marietta, Ga. 30067 Carol Dec 770 953 1934 Carolney @ potts not MATT KARENSKI 40C4 My France CT MITTHE POCKTE. COM C78-684-6205 Grewett Gx 3047 2717 Brookhaven Um NE, Ryan Pulley 770 956 9600 ralley@hzw. Com Browkhaven, GA 30319 50 Bradley StSE rithe rhathcocke dihritm con Richard Hatheren 828-493-4631 Atlanta, GA 30312 350 Research Court Attorringtone pecallicon 205-515-4365 Norcross GA 1371 Dogwood Dr. SW 470-774-4884 ircombe@brhoftop.com Convers, GA 300/2 1371 Dogwood Dr. Sw Chris Wilson 678-750-1796 CGWilson Johnson COM Conyers, 64 300121 8348 Norris Lake War 670/172 6787724348 @ Nod Palmer crikket wreless. net 4348 Amistal Myg Mossy Rock Cove 5+ Arromand Lithonia GA 30058 Terry Joseph 1691 Limestone Tentavo (65-425-1323

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MEETING SIGN-IN SHEET	
Project: D.R. Horton 1123 ±	Acres Meeting Date: 5/16/18
Facilitator: James M. Neg	Location: Norms Lake Road

		<u> </u>	No. of the last	The Lawrence
	Name	Address	Phone	E-Mail
	Janee McLeod	ichec mciedoss	117()-210	000 1
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	Sean Dillar	1643 Noris Conding	(7) 900-2745	003 District 5 Comme
/	Jerry Course	8464 Norris	Late was	dillardsean Segnalion
/	Clifford Course	84 64 NACTIS L	ite way	
<b>V</b>	Torsolo Paras	1123 Greenridge	ane	barrietme
/	MahmosBarre	11	thoma Ga 300	st notmail.com
~	Clarence Lord	A332 N . 1, 1/	678-478	
	Cribice Lord	8338 NorrisLake Way	9607	lordclar@hotmail.com
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6/18/2018

Re: Standards and factors governing review of proposed amendments to the Official Zoning Map.

A. Whether the zoning proposal is in conformity with the policy and intent of the comprehensive plan.

Yes, the Subject Property is designated as "Suburban" in the 2035 Comprehensive Plan. The Suburban Character Area/Land Use Designation supports density of up to eight (8) units an acre, including single family detached, townhomes, assisted living facilities, neighborhood retail and certain other public facilities. The RSM zoning category is a permitted zoning designation under the Suburban Character Area Designation. There is no small area plan applicable to the Subject Property in the 2035 Comprehensive Plan. Suburban Character Area Policies support infill development as proposed, including: 4. Density Increases; 5. Walkability; 6. Infill Development; 7. Infill Development; 14. Sense of Place; and 15. Density.

B. Whether the zoning proposal will permit a use that is suitable in view of the use and development of adjacent and nearby property or properties.

Yes, the properties that surround the site are C-1 Commercial and R-85 single family detached. There has not been much new development that has occurred through this section of DeKalb. We are suitable in that we are planning a total project of single family detached homes. We are proposing to mix product and lot sizes, which offers a wide arrange of price points and buyers, to this attractive site. We used section 5.2.3 of the DeKalb County Zoning Ordinance compatibility to determine where to place buffers and product sizes against other projects in the area that exist. This residential development will be consistent with the development trends in the larger surrounding area and will preserve the residential character. In addition, the redevelopment will help solve an issue with road alignment and the dangerous intersection at Pleasant Hill Way and Pleasant Hill Road.

C. Whether the property to be affected by the zoning proposal has a reasonable economic use as currently zoned.

No, the property fronting along Pleasant Hill Road is characterized by older single family residences on lots of varying width, the majority of which are nonconforming under existing R-100 and R-85 standards. Redevelopment under the existing R-85 Zoning designation is not economically feasible given the varied ownership of the properties, the differing conditions of the properties, and the cost associated with redevelopment. This property needs to be properly planned and productively developed, and that cannot occur unless some reasonable flexibility, expenditure of funds and thoughtful development is achieved.



D. Whether the zoning proposal will adversely affect the existing use or usability of adjacent or nearby property or properties.

No, the proposed development is consistent with the residential character of the area and the existing development of single family homes in the area. Further, the proposed development includes a buffer adjacent to all external property lines. There are also stream buffers on the north side separating the property from the R-85 homes. The projected prices for the proposed new homes are consistent and in many cases higher than the prices of existing homes in the area.

E. Whether there are other existing or changing conditions affecting the use and development of the property which give supporting grounds for either approval or disapproval of the zoning proposal.

Yes, the development trends are pushing outward in Dekalb County toward this section of the county. This would bring new vibrant and well planned single family detached housing to the area. The proposal supports saving trees, steep slopes, protecting stream buffers, and providing needed housing to the area while offering buffering and a wide variety of home sizes and lot size. This is a large and attractive parcel of land that deserves to be properly planned, designed and developed for the benefit of the uses and improvements of the area.

F. Whether the zoning proposal will adversely affect historic buildings, sites, districts, or archaeological resources.

No, there are no historic buildings, sites, districts, or archeological resources on the property. There is an adjacent park that is owned by the county. This park is undisturbed and does not seem to have any park features on it. This project would bring attention and notice to a potential park in the future. In addition, the park is located off a public roadway that has a dangerous intersection. This proposal would seek to realign this intersection and make it much safer.

G. Whether the zoning proposal will result in a use which will or could cause an excessive or burdensome use of existing streets, transportation facilities, utilities, or schools. H. Whether the zoning proposal adversely impacts the environment or surrounding natural resources.

No. Although the proposed development will result in a moderate increase in traffic and demand for utilities in the vicinity, the development will not overly tax the use of these public facilities. The project is proposing to connect to two different roadway systems and make upgrades to connection locations with turn lanes and decal lanes in order to facilitate the localized traffic. We have analyzed the sanitary capacity and water capacity for the site and determined how to run both to accommodate the development without impacting the environment or surrounding natural resources.

This proposal has been carefully designed and planned to avoid the possible excesses that are pointed out. This area has been overlooked and deserves to be properly developed. This is the proper and correct way to help this entire area to advance and take its rightful place as a key part of DeKalb County.

D.R. Horton - East Project No. 16309.00 6/18/2018



Should there be any additional questions, please do not hesitate to contact me at 770.451.2741 or at <a href="mailto:kwood@pecatl.com">kwood@pecatl.com</a>.

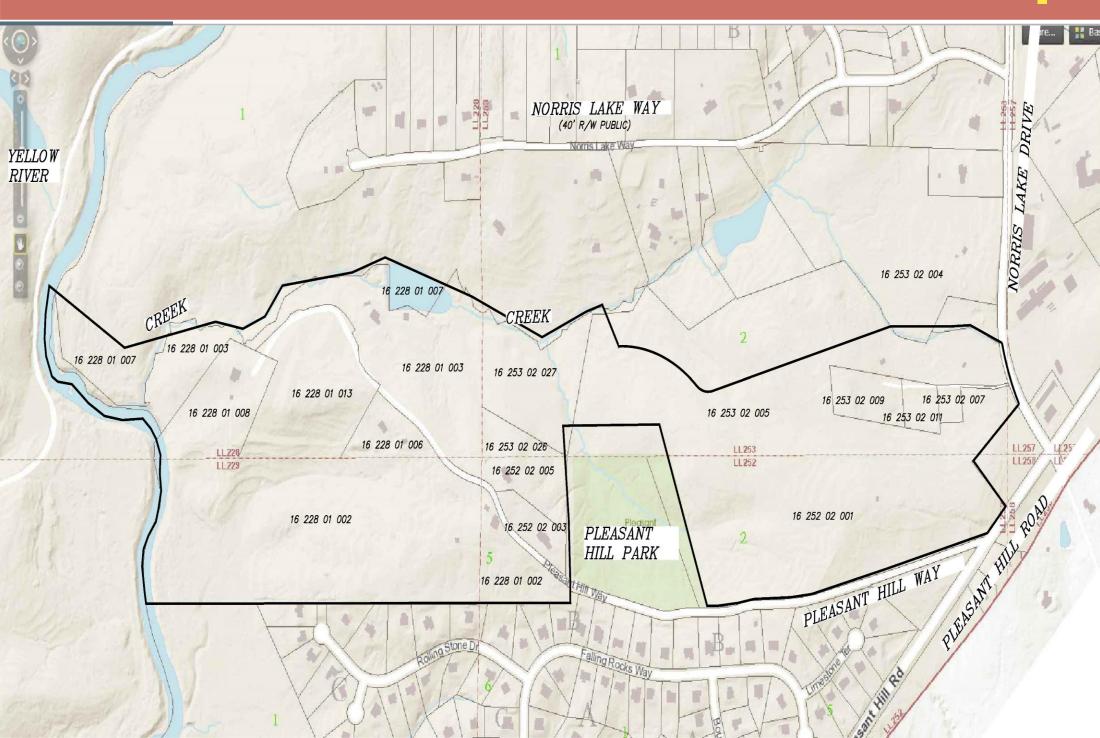
Sincerely,

Planners and Engineers Collaborative, Inc.

Kenneth J. Wood, P.E., LEED AP

President

For the Firm



# **Revised RNC Site Plan**



SITE LOCATION MAP



FEMA FIRM MAP

TOTAL SITE AREA	
ZONING	
PROPOSED ZONING	R-85 RESIDENTIAL R-NC CONSERVATION DEKALB COUNTY
PROPERTY SETBACKS	
R-NC FRONT SETBACK SIDE SETBACK. (MIN. 10 FEET SEPARATION BETWEE REAR SETBACK. MIN. LCT WIDTH. MIN. LCT AREA MIN. HEATED S.F.	SUIBACKS
DEVELOPMENT SUMMARY	
TOTAL LOTS PROVIDED	

RED STAG

STER PLANNED RESIDENTIAL DEVELOPMEN

D.R. HORTON - CROWN, LLC.

CONTESS, GEOGRA, 2007

CONTESS, CEOCRA, OPEN SPACE SUMMARY . .122.77 AG . .43.46 AC . .79.31 AC OPEN SPACE REQUIRED (PERCENTAGE) 30.0 % OPEN SPACE REQUIRED 23.79 AC OPEN SPACE PROVIDED (PERCENTAGE) 31 40 % OPEN SPACE PROVIDED. \*\* PROVIDED DOES NOT INCLUDE STREAM BUFFERS

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REZONING MASTER PLAN 1" = 200' JUNE 11, 2018 16309.00 PROJECT:

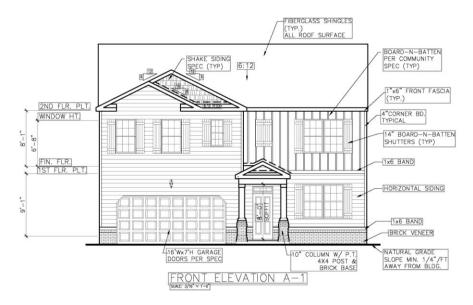
**REVISIONS:** 

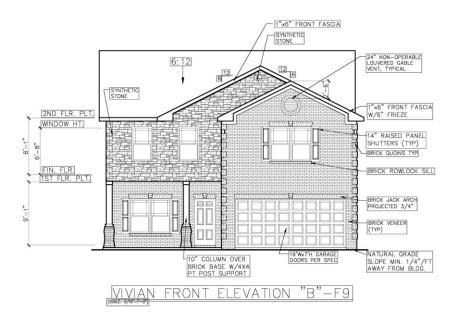
24 HOUR CONTACT: JAY COOMBE @ 470-774-4884

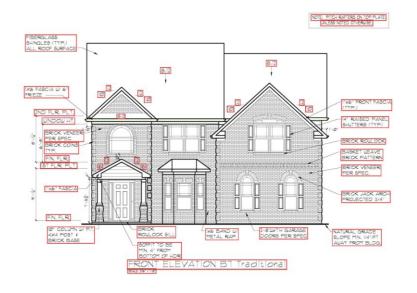


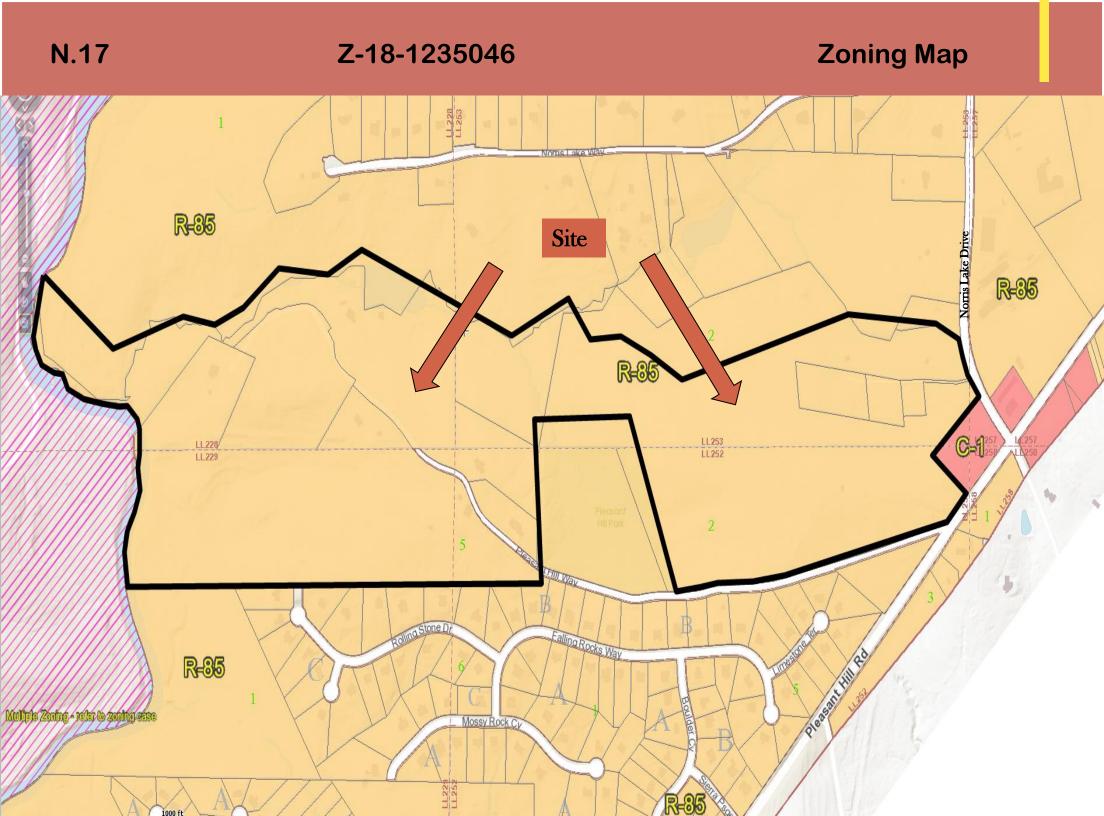
## **Site Elevations**

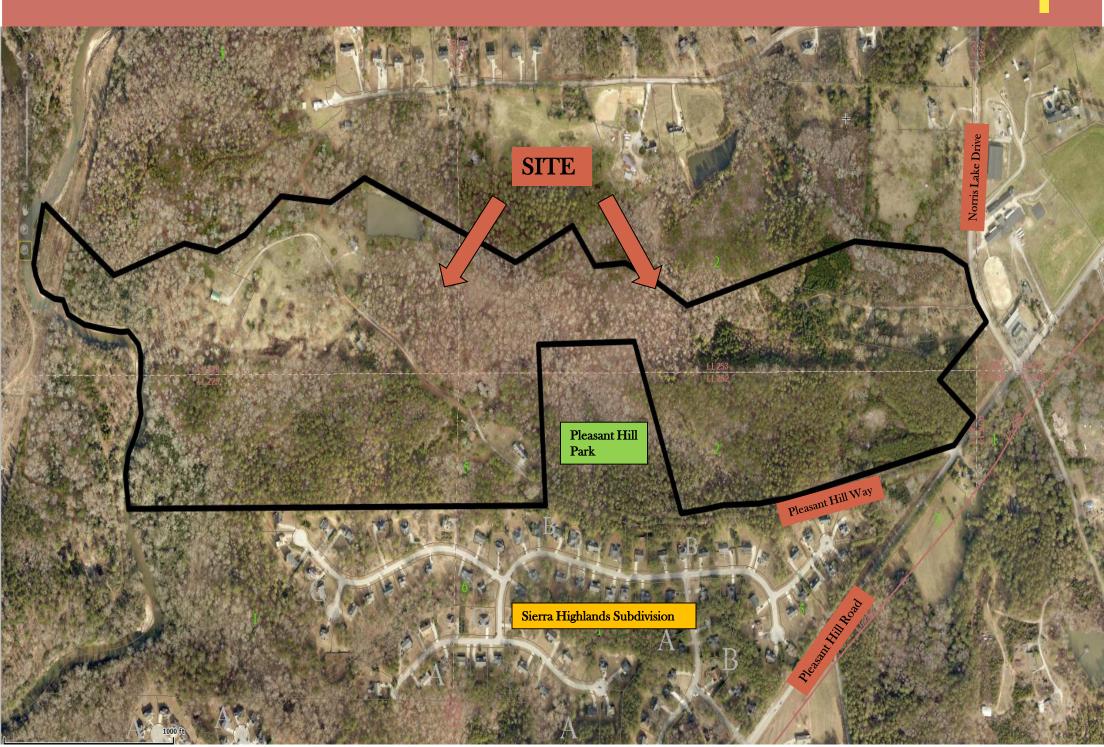


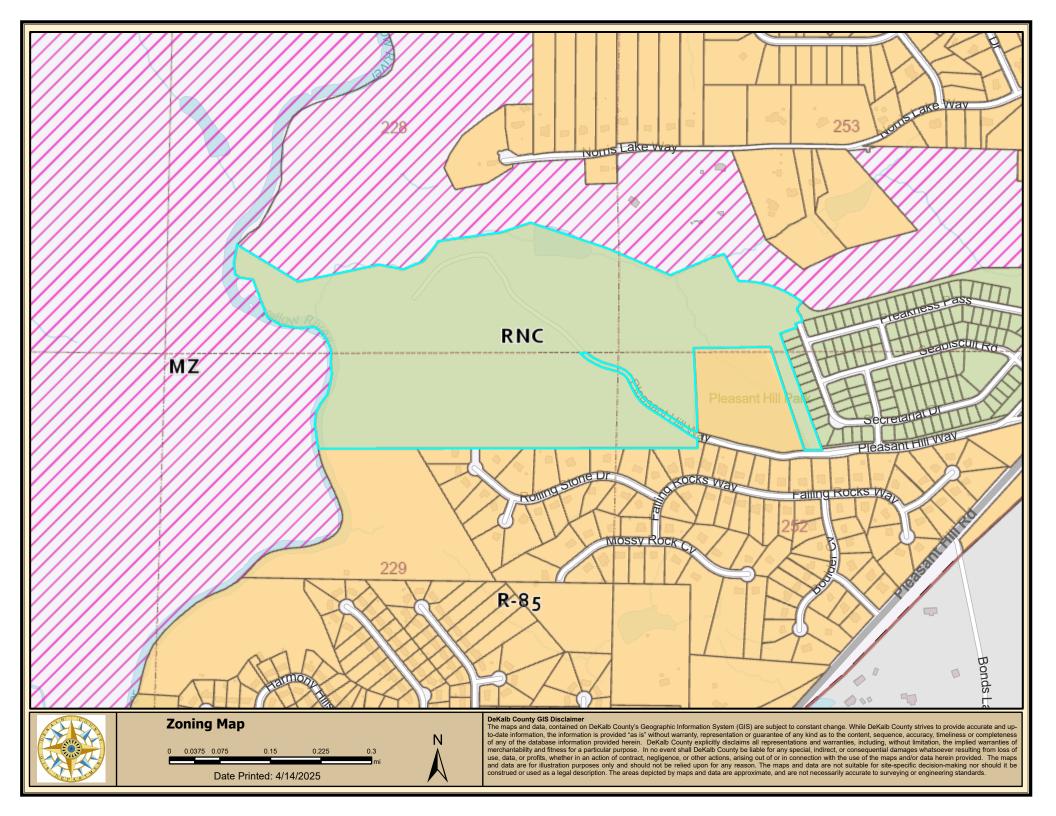


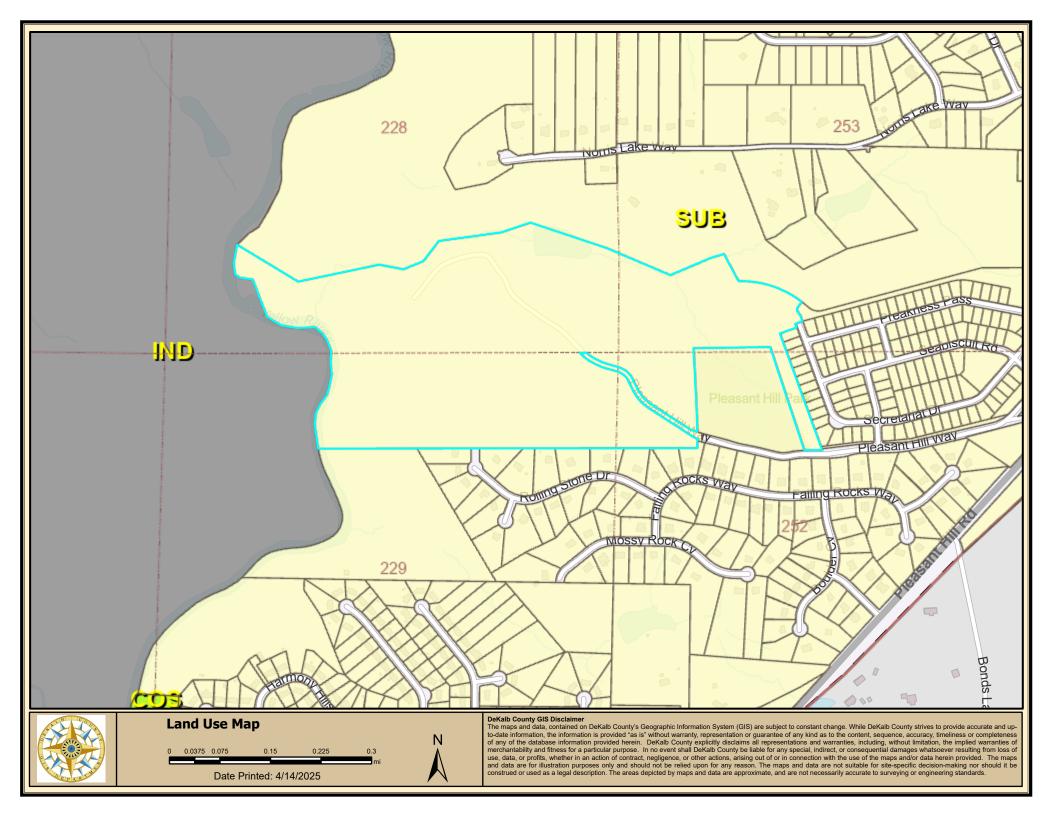
















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