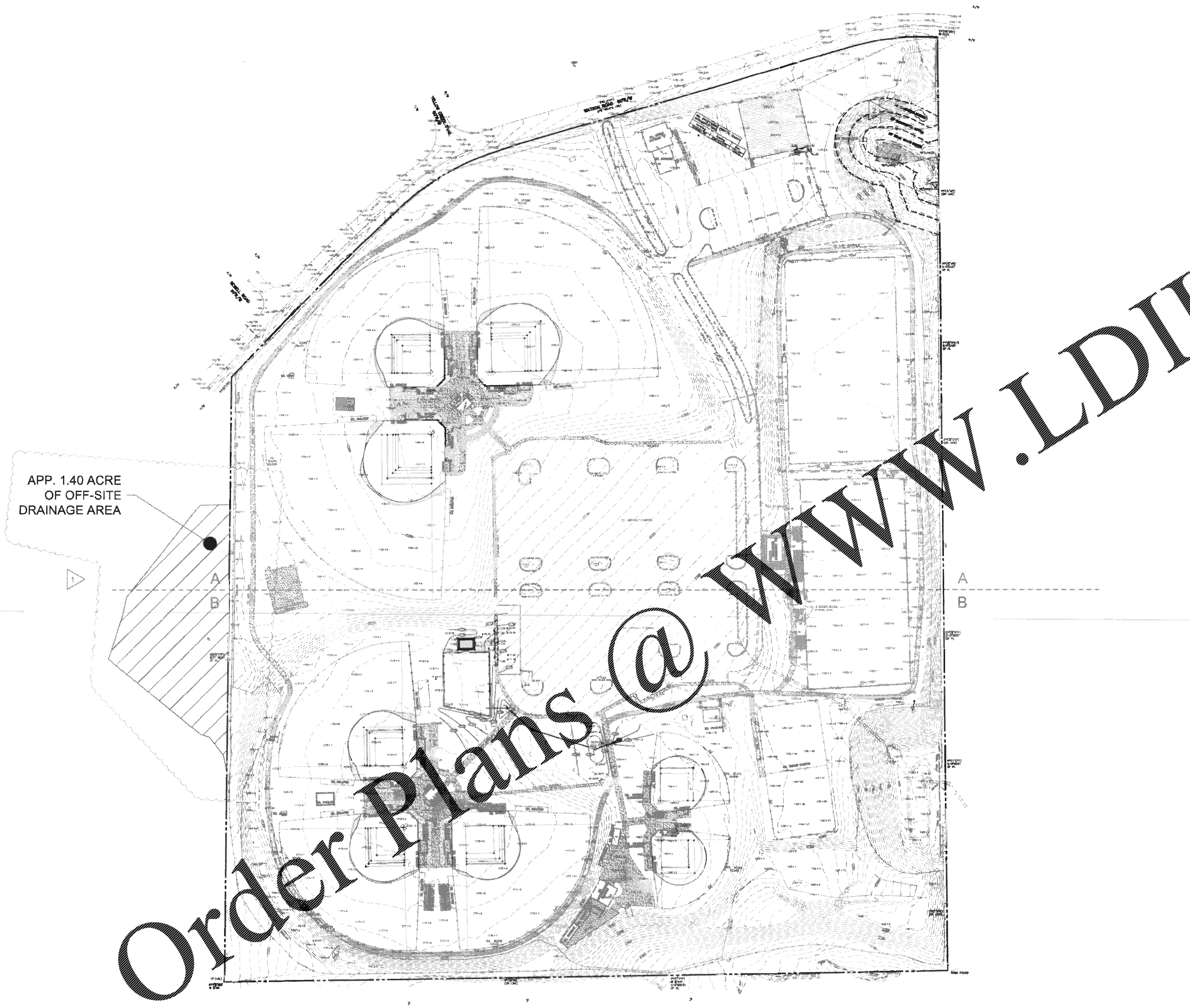
NOTIFY FORSYTH COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (770) 781-2165.



GRADING NOTES

1. ALL AREAS TO RECEIVE PAVEMENT, STRUCTURES OR FILL MATERIAL SHALL BE STRIPPED OF ORGANIC MATERIAL, TOPSOIL, AND DEBRIS PRIOR TO CONSTRUCTION.

2. ONCE STRIPPING HAS BEEN COMPLETED, ALL AREAS TO RECEIVE FILL SHOULD BE PROOF-ROLLED IN THE PRESENCE OF A REPRESENTATIVE OF THE SOILS ENGINEER. SOFT AREAS ENCOUNTERED DURING PROOF-ROLLING SHALL BE STABILIZED BY COMPACTION OR UNDERCUT.

3. ALL FILL AREAS SHALL BE FREE OF ORGANIC OR OTHERWISE UNSUITABLE MATERIALS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR ASTM D698 UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL REPORT AS LISTED BELOW. THE TOP TWO (2) FEET OF FILL UNDER STRUCTURES AND PAVEMENT SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR ASTM D698 UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL REPORT AS LISTED BELOW.

4. EARTHMOVING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE TO THE ON-SITE GEOTECHNICAL ENGINEER.

5. ALL SITE PREPARATION SHOULD BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. INSPECTIONS AND TESTING FOR ALL UNDERCUT AND FILL OPERATIONS AS WELL AS THE UTILIZATION OF ACCEPTABLE OFF-SITE BORROW MATERIALS SHOULD BE PERFORMED. THE OWNER, AT HIS OPTION, MAY HAVE DENSITY TESTS PERFORMED TO VERIFY THAT SPECIFIC COMPACTION IS OBTAINED.

6. CUT OR FILL SLOPE SHOULD NOT BE STEEPER THAN 2H:1V. ALL PROPOSED SLOPES SHOULD BE OVERBUILT AND CUT BACK TO THE PROPOSED GRADES, EXPOSING THE FIRM COMPACTED INNER CORE. THE EXCAVATION FOR [illegible] SLOPES SHOULD BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. VERTICAL CUTS EXCEED [illegible] FT SHOULD BE BRACED AS REQUIRED BY OSHA REGULATIONS FOR SAFETY.

7. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS WHICH DO NOT APPEAR TO BE CONS[illegible] THE [illegible]OURS AND SLOPES. SPOT ELEVATIONS SHOWN ALONG CURB & GUTTER DESIGNATE THE PROPOSED [illegible] AT TH[illegible] OF THE GUTTER UNLESS OTHERWISE NOTED.

8. CONTRACTOR SHALL INSTALL APPROPRIATE EROSION CONTROL [illegible]RES [illegible]R TO ANY LA[illegible] DISTURBANCE ACTIVITIES.

9. THE CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS, V[illegible]VE COVERS, C[illegible]EAN[illegible]LTS, BOXES, AND GRATES, EXISTING AND PROPOSED, TO "AS-CONSTRUCTED" F[illegible]HED GRADE.

10. IF GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR [illegible] THE ENGINEER TO INVESTIGATE SUCH ADJUSTMENTS.

11. IF A CONFLICT EXISTS BETWEE[illegible] PLAN[illegible]/AND SPECIFI[illegible]IONS OR/AND SOIL REPORT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIA[illegible] FOR CLARIFI[illegible]ATION.

12. PRIOR TO INSTA[illegible] STOR[illegible] SANITA[illegible] SEWER, THE CONTRACTOR SHALL VERIFY THE INVERTS OF EXISTING STR[illegible]ES AND [illegible]ORM T[illegible]O THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCT[illegible]

13. [illegible]NG DRAI[illegible]E STRUCT[illegible]O BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING PIPES ARE TO BE CLEA[illegible]UT TO R[illegible]VE ALL S[illegible] AND DEBRIS AFTER CONSTRUCTION.

14. ALL P[illegible]SED DRA[illegible]GE STRUCTURES ARE TO BE INSTALLED PER FORSYTH COUNTY STANDARDS AND SPECIFICA[illegible]S AS R[illegible]QUIRED.

15. T[illegible]E CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-[illegible]LT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE DESIGNER AND/ OR THE C[illegible]OUNTY INSPECTOR UPON REQUEST. THE MARK-UPS SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE [illegible]LIZED TO DEVELOP FINAL RECORD DRAWINGS.

16. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER OF RECORD, A SURVEYED "AS-BUILT" DRAWING OF EACH DETENTION FACILITY SHOWING POND TOPOGRAPHY (2' CONTOURS AND SPOT ELEVATIONS) AND SIZES AND INVERTS OF ALL OUTLET CONTROLS, AND APPURTENANCES. ADDITIONALLY, THE CONTRACTOR SHALL INCLUDE IN THE AS-BUILT DRAWINGS ALL NECESSARY IMPROVEMENTS, NOTES & CERTIFICATIONS REQUIRED BY THE PERMITTING AUTHORITY.

MATERIAL NOTES

1. STORM SEWER MATERIALS SHALL BE INSTALLED AS SHOWN ON THE PLANS.

2. STORM SEWER MATERIAL DESIGNATIONS SHALL BE FURTHER DEFINED AS FOLLOWS :
"HDPE" - HIGH DENSITY POLYETHYLENE PER AASHTO M294 OR ASTM F2306, INSTALLED PER ASTM D2321
"HDPEWT" - HDPE WATER TIGHT PER AASHTO M294 OR ASTM F2306 AND WITH JOINTS PER ASTM D3212, INSTALLED PER ASTM D2321
"RCP" - REINFORCED CONCRETE PIPE, CLASS PER ASTM C76/AASHTO M170 (MIN. CLASS III) AND JOINTS PER ASTM C443

3. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.

4. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I. UNLESS OTHERWISE NOTED.

5. PROVIDE ANCHOR COLLARS ON ALL PIPES AT OR EXCEEDING 10% SLOPE FOR RCP AND 14% FOR CMP AND HDPE.

6. PROVIDE WATER-TIGHT JOINTS ON ALL STORM SEWER PIPES AT OR EXCEEDING 20% SLOPE.

7. PROVIDE SAFETY PLATFORMS IN ALL STRUCTURES GREATER THAN & EQUAL TO 20' IN DEPTH. PLATFORMS FOR STRUCTURES BETWEEN 20' & 24' ARE TO HAVE A MINIMUM OF ONE (1) PLATFORM INSTALLED AT THE MIDPOINT. STRUCTURES GREATER THAN 24' ARE TO HAVE PLATFORMS SPACED AT A MAXIMUM 10' ON CENTER.

GRADING SYMBOLS LEGEND

- 120 — EXISTING CONTOURS
- 125 — PROPOSED CONTOURS
- 20.5 — EXISTING SPOT ELEVATION
- 20.50 — PROPOSED SPOT ELEVATION
- EXISTING STORM SEWER (TO REMAIN)
- PROPOSED STORM SEWER
- PROPOSED RETAINING WALL
- JUNCTION BOX, JB (1011A)
- CURB INLET, CI (1019A TYPE E)
- DOUBLE CURB INLET, DCI
- DROP INLET, DI (1019A TYPE A)
- DOUBLE DROP INLET, DDI
- TRIPLE DROP INLET, TDI
- YARD INLET, YI
- OUTLET CONTROL BOX, OCB
- DOUBLE WING CATCH BASIN, DWCB (1034D)
- SINGLE WING CATCH BASIN, SWCB (1033D)
- GRATE INLET (NYLOPAST), GI
- SOLID JUNCTION BOX (NYLOPAST), JB
- CLEAN OUT, CO
- HEADWALL, HW (1031-8)
- FLARED END SECTION, FES (1120)
- SAFETY END SECTION, SES (1122)

OVERALL GRADING PLAN

SCALE: 1" = 80'

80 0 80 160 240 FEET

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3995 WATSON ROAD, CUMMING, GEORGIA 30028

FOR:
FORSYTH COUNTY PARKS & RECREATION
P.O. BOX 2417, CUMMING, GEORGIA 30028

REVISIONS

1	COUNTY COMMENTS	10-27-2020
2	COUNTY COMMENTS	11-19-2020

SHEET TITLE: OVERALL GRADING PLAN

DATE: 09/09/2020

PROJECT NUMBER: 19323

SHEET NUMBER: C - 2