

LEGEND:

AI	ANGLE IRON
ASP	ASPHALT
BL	BUILDING LINE
BWF	BARB WIRE FENCE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CMF	CONCRETE MONUMENT FOUND
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CTP	CRIMPED TOP PIPE
DI	DROP INLET
EP	EDGE OF PAVEMENT
FH	FIRE HYDRANT
GW	GUY WIRE
HWF	HOG WIRE FENCE
IPF	IRON PIN FOUND
IPS	IRON PIN SET (1/2" REBAR)
LL	LAND LOT
LLL	LAND LOT LINE
MH	MANHOLE
MR	METAL ROD
N/F	NOW OR FORMERLY
OTP	OPEN TOP PIPE
PB	POWER BOX
PL	PROPERTY LINE
PP	POWER POLE
P/P/T	POWER & TELEPHONE POLE
RB	REBAR
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
SP	SERVICE POLE
TM	TEMPORARY BENCH MARK
WM	WATER METER
WV	WATER VALVE

UTILITIES SYMBOLS LEGEND

---	EX. GAS (TO REMAIN)
---	EX. TELEPHONE (TO REMAIN)
---	EX. POWER (TO REMAIN)
---	EX. SANITARY SEWER (TO REMAIN)
---	EX. WATER (TO REMAIN)
---	EX. WIRE (TO REMAIN)
---	PROPOSED FIRE
---	PROPOSED GAS
---	PROPOSED POWER
---	PROPOSED SANITARY SEWER
---	PROPOSED WATER
---	PROPOSED WIRE
---	PROPOSED STORM
---	PROPOSED STORM
---	SANITARY SEWER MANHOLE, MH
---	CLEAN OUT, C.O.
---	FIRE DEPARTMENT CONNECTION, FDC
---	POST INDICATOR VALVE, PIV
---	FIRE HYDRANT
---	METER
---	VALVE
---	THRUST BLOCK

LEGEND:

BP	BRADFORD PEAR
CB	CATCH BASIN
C&G	CURB & GUTTER
CO	CORRUGATED PLASTIC PIPE
DB	DEED BOOK
DS	DOWNSPOUT
FF	FINISH FLOOR
FOB	FIBER OPTIC BOX
ICV	IRRIGATION CONTROL VALVE
JB	JUNCTION BOX
LP	LIGHT POLE
MFP	METAL FENCE POST
PB	PLAT BOOK
TBM	TEMPORARY BENCH MARK
---	GAS LINE
---	UNDERGROUND POWER
---	SEWER LINE
---	UNDERGROUND TELEPHONE
---	WATER LINE
---	UNDERGROUND FIBER OPTIC



- SITE UTILITY NOTES**
1. ALL WATER METERS, VALVE BOXES, AND VAULTS, EXISTING AND PROPOSED SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH NEW FINISH GRADES.
 2. THE CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS, VALVE COVERS, CLEAN OUTS, VAULTS & BOXES EXISTING AND PROPOSED, TO "AS-CONSTRUCTED" FINISH GRADE.
 3. CONTRACTOR IS TO COORDINATE INSTALLATION OF GAS LINES WITH LOCAL GAS COMPANY. CONTRACTOR SHALL COORDINATE THE TYPE AND SIZE OF GAS SERVICE TO THE MAIN CONTRACTOR, IN CONJUNCTION WITH THE GAS COMPANY SHALL DETERMINE THE AMOUNT OF GAS LINE HE IS TO PROVIDE OUTSIDE THE GAS COMPANY'S ALLOWANCE.
 4. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 5. THE LOCATION AND ELEVATION OF EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPE LINES AND ALL CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
 6. THRUST BLOCKS SHALL BE LOCATED AT ALL WATER PIPE VALVES, VERTICAL BENDS, AT VERTICAL ELBOWS AND TEES, HORIZONTAL ELBOWS, TEES, AND CROSS FITTINGS. 24 SECTION IN PARAGRAPHS 9005, 9006, & 9007 TABLE 9005.
 7. SANITARY SEWER LINE SHALL BE OF DUCTILE IRON PIPE AT ALL LOCATIONS WHERE SANITARY LINE CROSSES ABOVE OR BELOW A STORM SEWER LINE.
 8. SANITARY SEWER CLEAN OUTS SHALL BE INSTALLED AT ALL MANHOLES AND AT A MINIMUM SPACING OF 75 (SEVENTY-FIVE) FEET.
 9. WHEN WATER MAINS CROSS SEWERS, A MINIMUM VERTICAL SEPARATION OF 18 INCHES MUST BE PROVIDED BETWEEN THE TWO PIPES (MEASURED EDGE TO EDGE). AT CROSSINGS, ONE FULL LENGTH OF CAP WATER MAIN SHALL BE LOCATED SO THAT FROM THE WATER MAIN TO THE SEWER AS POSSIBLE. FOR THE SEWER INSTALLATION, THE SEPARATION OF 10 FEET SHALL BE PROVIDED FROM THE EXISTING OR PROPOSED WATER MAINS OR SERVICE LINES (MEASURED EDGE TO EDGE).
 10. WHERE WATER AND SANITARY SEWER LINES CROSS, THE WATER MAIN SHALL BE 18 INCHES ABOVE THE SEWER. IF THE SEWER MUST BE ABOVE THE WATER MAIN THE SEWER SHALL BE AT LEAST 18 INCHES ABOVE AND INSTALLED IN CONCRETE A MINIMUM OF 10 FEET ON EACH SIDE OF THE WATER MAIN. JOINTS SHALL BE 20 FEET TO PROVIDE MAXIMUM DISTANCE.
 11. UNDERGROUND UTILITIES SHALL BE INSTALLED, TESTED AND APPROVED BEFORE BACKFILLING. EXISTING UTILITY STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING UTILITIES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY RELOCATION OF EXISTING UTILITIES SUCH AS POWER AND TELEPHONE POLES AND THE COORDINATION OF SUCH THE CITY UTILITIES DIVISION.
 13. THE CITY OF DAWSONVILLE UTILITIES DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WATER OR SEWER LINE CONSTRUCTION OR REPAIR. CALL THE WATER AND SEWER INSPECTOR AT CITY OF DAWSONVILLE UTILITIES DEPARTMENT AT (706) 344-2160 BEFORE BEGINNING OF CONSTRUCTION.
 14. ALL WATER MAIN MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF DAWSONVILLE UTILITIES DEPARTMENT STANDARDS SPECIFICATIONS.
 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-BUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE CITY ENGINEER AND/OR THE CITY INSPECTOR UPON REQUEST. THE MARKUPS SHALL BE AT THE SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS.
 16. THE CONTRACTOR MUST NOTIFY ENGINEER PRIOR TO COMMENCEMENT OF ANY WATER OR SEWER EXTENSION ACTIVITY AND BEFORE ANY WATER OR SEWER EXTENSIONS IN ORDER TO COORDINATE REQUIRED CERTIFICATIONS.
 17. ALL PIPE CROSSING CLEARANCES ARE CALCULATED BASED ON FLOW LINE ELEVATION TO FLOW LINE ELEVATION / INSIDE DIAMETERS.
 18. PRIOR TO BID, CONTRACTOR SHALL CONTACT NECESSARY UTILITY PROVIDERS REGARDING ANY ON OR OFF-SITE UTILITY RELOCATION TO DETERMINE SCOPE AND COST. CONTRACTOR SHALL PROVIDE OWNER WITH FINDINGS.
 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES ASSOCIATED WITH THE INSTALLATION OF POWER TO THE BUILDING.
 20. UTILITY TRENCHES ARE TO BE SLOPED OR BRIDGED AND SHIELDED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES IN COMPLIANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
 21. ALL CLEANOUTS, VALVE BOXES, METER BOXES, ETC. SHALL BE TRAFFIC RATED IN INSTALLED IN PAVEMENT AREAS.
 22. WATER LINE MINIMUM COVER IS 5 FEET.
 23. THE CITY OF DAWSONVILLE SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY WATER OR SEWER LINE CONSTRUCTION OR REPAIR. CALL CITY HALL AT (706) 265-3206.
 24. ALL WATER MAIN AND SANITARY SEWER MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF DAWSONVILLE DESIGN CRITERIA.
 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-BUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE CITY ENGINEER AND/OR THE CITY INSPECTOR UPON REQUEST. THE MARKUPS SHALL BE AT THE SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS.

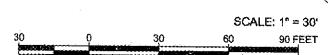
- MATERIAL NOTES**
1. ALL MATERIALS SHALL COMPLY WITH CITY OF DAWSONVILLE THE COMPREHENSIVE DEVELOPMENT ORDINANCE WATER AND SEWER STANDARDS AND SPECIFICATIONS, THE LATEST EDITION.
 2. SANITARY SEWER MATERIALS SHALL BE AS SHOWN ON THE PLANS.
 3. SANITARY SEWER MATERIAL SHALL MEET THE MINIMUM REQUIREMENTS BELOW:
SDR 26 PVC (FOR COVER BETWEEN 4' AND 12') PER ASTM D2446;
ON DUCTILE IRON PIPE (DIP) PER AWWA C151, MINIMUM PRESSURE CLASS 500 OR THICKNESS CLASS 82, PIPE AND FITTINGS SHALL BE CEMENT LINED PER AWWA C 153, (82).
 4. WATER LINES SHALL BE AS FOLLOWS:
COPPER TUBING PER ASTM B88, TYPE K, LESS THAN 3";
SDR 9 PVC PER ASTM D2446, (2" TO 3") WITH A PRESSURE RATING OF NOT LESS THAN 315 PSI;
DUCTILE IRON PIPE (DIP) PER AWWA C151, MINIMUM PRESSURE CLASS 500 OR THICKNESS CLASS 82, PIPE AND FITTINGS SHALL BE CEMENT LINED PER AWWA C 153, (82).
 5. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.
 6. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

- CITY WATER & SEWER CONSTRUCTION NOTES**
- Section 8.3 Construction and Inspection
- (a) A representative of the Developer, the installation contractor, the County Fire Marshal and the City Building and Water and Sewer representatives shall attend pre-construction conference at the City of at least ten (10) working days prior to the start of any construction. These individuals shall pre-construction conference in accordance with all county and city representative work schedule. The purpose of this conference will be to discuss related responsibilities for the correct execution of the proposed water and sewer line installation.
 - (b) All water and sewer line installations shall be inspected during construction. Any personnel or the City Engineers shall inspect and certify that all work was installed in accordance with the Construction Standards of the City and design provided by the Developer. The City shall review and inspect all construction, as proposed by the design engineer, at the completion of all work. Payment for the inspection services provided by the City will be billed by the City to the Developer within seven (7) days of final inspection.
 - (c) The contractor shall notify the City 24 hours in advance of starting excavation.
 - (d) The contractor shall perform all required water and sewer line tests. The City representative shall be present during testing and shall be provided detailed records for the City.
 - (e) The contractor shall prepare the water lines for bacteriological testing. It is the sole responsibility of the City to assure the samples and tests are tested in an EPA approved water laboratory. The Developer will be notified of the results. Successful bacteriological testing must be completed prior to the acceptance by the City.
 - (f) The Developer must have an acceptable Change Order in hand before making any field changes that do not constitute the water and sewer line plans approved by DEP.
- Section 8.4 Final Approval
- (a) The Developer shall submit to the City three (3) copies of the as-built drawings stamped by a registered civil engineer.
 - (b) The City Council will make final acceptance for ownership of the water and sewer line installation based on the City's final inspection and the City Engineer's final inspection. The Developer shall submit to the City a copy of the final unbudgeted bill for construction, with respect to assessments dedicated to the City.

PRIOR TO BID, CONTRACTOR SHALL CONTACT NECESSARY UTILITY PROVIDER(S) REGARDING ANY ON OR OFF-SITE UTILITY RELOCATION TO DETERMINE SCOPE AND COST. CONTRACTOR SHALL PROVIDE OWNER WITH FINDINGS.

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT NECESSARY UTILITY PROVIDER(S), OWNER(S) & THE DESIGN ENGINEER TO SETUP AN ON-SITE MEETING TO COORDINATE ANY UTILITY RELOCATION.

UTILITY PLAN



Order Plans

IF YOU DIG GEORGIA...
CALL US FIRST!
UTILITIES PROTECTION CENTER
IT'S THE LAW
Know what's below.
Call before you dig.

24 HR EMERGENCY CONTACT
Mr. SCOTT MORGAN
PHONE: 706-265-3246

ROBERSON JUDIA ROOF ARCHITECTS & ENGINEERS
3460 Preston Ridge Road, Suite 275
Marietta, GA 30005
770-874-2400 / www.rjr.com

GEORGIA
Professional Engineer
6/1/18

(Utility No. 642-0108)
Dawson County College and Career Academy
Dawsonville, Georgia
Dawson County Schools
Total Square Footage = 35,800 SF
U.S. # 74 (Existing) = 11 (New) = 85 U.S.

UTILITY PLAN

DATE: 05-07-2018
PROJECT NUMBER: 17-303
C - 3